

PREFACE (INCLUDING RESPONSES TO COMMENTS)

P-1 INTRODUCTION

In accordance with Section 15088 of Title 14 of the California Code of Regulation (California Environmental Quality Act Guidelines), the City of Riverside (City), through its Community & Economic Development Department, Planning Division, has evaluated the comments received on the Draft Initial Study and Mitigated Negative Declaration (IS/MND) for the Street Light Replacement for Areas 3–5B Project (proposed project) and has prepared written responses to these comments. This section contains copies of the comments received during the public review process and provides an evaluation of and written responses for each comment. No changes were made to the Draft IS/MND text because of these comments. However, minor clarifications were made to the Draft IS/MND text. These revisions to existing text are shown by ~~strikeout~~ (i.e., ~~strikeout~~) where text is removed and by underlined text (i.e., underline) where text is added for clarification. These changes and additions to the Draft IS/MND do not raise new, important issues related to significant effects on the environment. The Final IS/MND has been completely reprinted from the Draft IS/MND, and the Preface and Responses to Comments has been incorporated into the Final IS/MND as the beginning chapters. The Final IS/MND contains the comments received on the Draft IS/MND and responses (see following section).

P-2 COMMENTS RECEIVED

During the public review period from September 21, through October 11, 2018, the City received one comment letter from one agency (Table P-1). No letters from individuals and organizations were received.

Table P-1
Draft IS/MND Commenters

Comment Letter Designation	Commenter Name/Agency	Date
A	Riverside County Airport Land Use Commission (Paul Rull)	September 21, 2018
B	Riverside County Airport Land Use Commission (Paul Rull)	November 2, 2018

Note: IS/MND = Initial Study and Mitigated Negative Declaration

P-3 COMMENTS AND RESPONSES TO COMMENTS

This section includes written comments on the Draft IS/MND received by the City and the City's responses to those comments.

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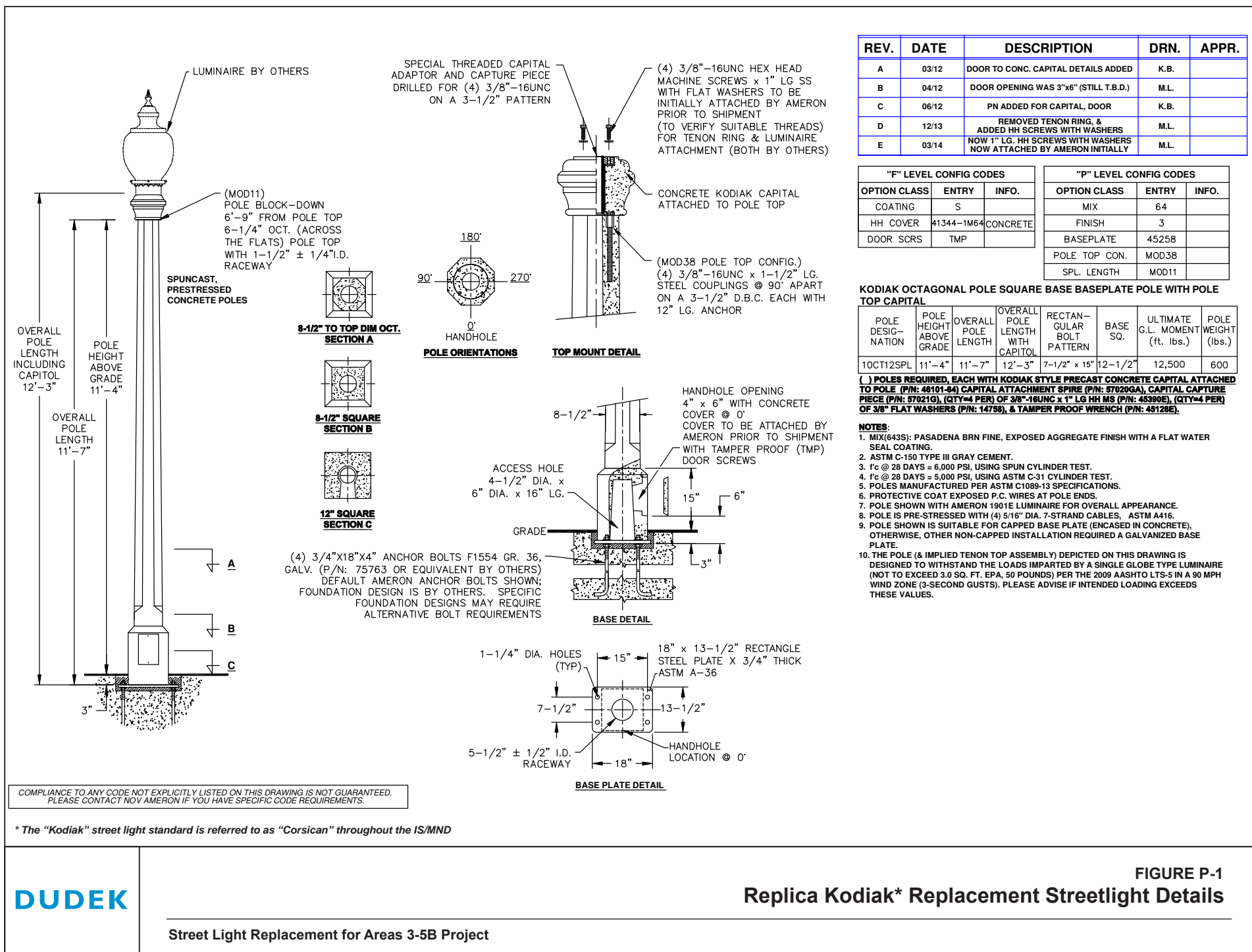


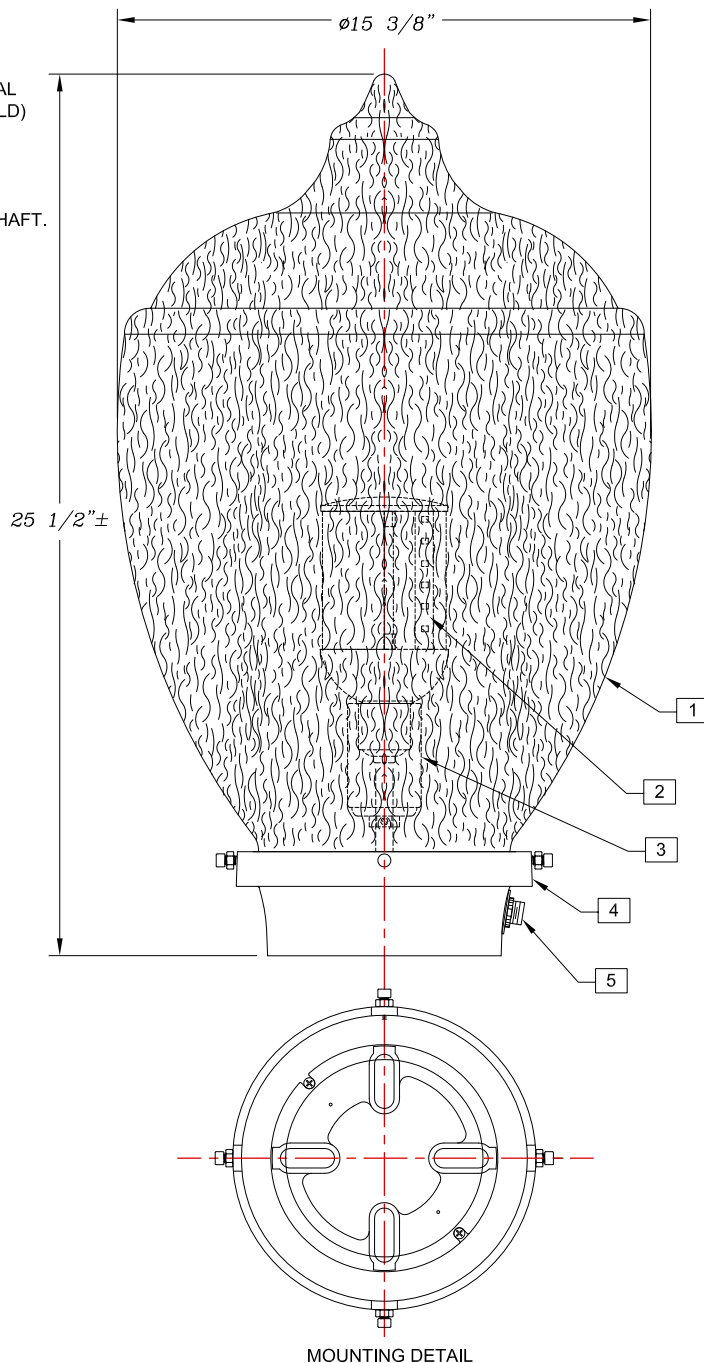
FIGURE P-1
Replica Kodiak* Replacement Streetlight Details

Street Light Replacement for Areas 3-5B Project

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ELA RIV/11A/PT/23W LED BULB SPECS:

- 1) STIPPLED POLYCARBONATE GLOBE
REMOVABLE TOOL-LESS FOR ACCESS.
- 2) 23W, 120-27VV LED CORN BULB VERTICAL
MOUNT. TYPE 3 OPTICS (REFLECTOR SHIELD)
3000K COLOR TEMPERATURE.
- 3) 4KV MOGUL BASE PORCELAIN SOCKET.
- 4) CAST ALUMINUM FITTER TO BOLT ON SHAFT.
- 5) 240V BUTTON STYLE PHOTO CELL
ATTACHED TO FITTER.



Finishes

Painted:

- ☒ Midnight ☐ Clay
☐ Dark Bronze ☐ Old Iron
☐ Other: _____

Lamp Type

- ☐ Mercury Vapor
☐ Metal Halide
☐ HPS
☐ Fluorescent
☐ Incandescent

Socket

- ☐ Medium Base
☒ Mogul Base
☐ CFL (Fluorescent)
☐ _____

Ballast Wattage

- ☐ 35 ☐ 150
☐ 50 ☐ 200
☐ 70 ☐ 250
☐ 75 ☐ 400
☐ 100 ☒ Other

23W LED BULB

Ballast Voltage

- ☐ 120 ☒ 120/277
☐ 208 ☐ 347
☐ 240 ☐ 480
☐ 277 ☐ Multi-Tap
☐ Other: _____

Distribution

- ☐ Refrac. ☒ Reflec.
☐ II ☒ III
☐ IV ☐ V
☐ Other: _____

Lens

- ☐ Glass ☐ Acrylic
☒ Polycarbonate
☐ Other: _____

Check One:

- ☐ Clear ☐ Frosted
☐ Opal
☒ Other: STIPPLED

DUDEK

Street Light Replacement for Areas 3-5B Project

FIGURE P-2
Proposed Luminaire Details

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From: Rull, Paul <PRull@RIVCO.ORG>
Sent: Friday, September 21, 2018 8:32 AM
To: jennifer mermilliod <jennifer@jmrc.biz>
Subject: P18-0585 historic street light standards

Good Morning Jennifer,

Thank you for transmitting the notice of intent to ALUC for review. Depending on the heights and locations in proximity to airports of these new light standards, the project could be a potential hazard to flight. Do you have any exhibits showing the site locations of the light standards, as well as any construction drawings showing the heights of the light standard. Thank you.

If you have any questions, please feel free to contact me.

Paul Rull
ALUC Urban Regional Planner IV

A-1



Riverside County Airport Land Use Commission

4080 Lemon Street, 14th Floor

Riverside, Ca 92501

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(951) 955-5177 (fax)

PRULL@RIVCO.ORG

www.rcaluc.org

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County of Riverside California

RESPONSE TO COMMENT LETTER A

Riverside County Airport Land Use Commission

September 21, 2018

- A-1** The commenter expresses concern regarding the height and location of the proposed streetlights, and potential impacts this may have on airplane hazards. Figures 3 through 7, included in the IS/MND, show all locations where the streetlights would be replaced. As discussed in IS/MND Section 4.2.5a, the proposed number and spacing of streetlights is based on American National Standard Practice for Roadway Lighting ANSI/IESNA RP-8 (RP-8), the standard approved by the Riverside City Council in 1996. As advances in lumen output technology have been made since installation of the existing historic streetlights, RP-8 Standards would actually reduce the number of streetlights needed per block to provide required lighting levels. Thus, the proposed project is expected to result in fewer streetlights than currently exist in Areas 3 through 5B. Provisions of the City's historic preservation ordinance, Title 20, the Secretary of the Interior's Standards for the Treatment of Historic Properties related to historic resources and design standards and guidelines, require that replacement streetlights look similar to existing ones. Thus, it is expected that replacement streetlights would be similar in height to existing streetlights. More specifically, the design details of the proposed replacement streetlights, including the proposed height of the streetlights, have been incorporated as Figure P-1, Replica Kodiak Replacement Streetlights Details, and the design details of the proposed luminaires have been included as Figure P-2, Proposed Luminaire Details. As shown in these figures, the standard and luminaire, together, indicate a total installed height of 14 feet and 3.5 inches. It should be noted that the height of the proposed replica streetlights is approximately 2 inches taller than existing streetlights. However, the existing direct embedment historic streetlights currently vary in height for a variety of reasons, such as the depth of the original excavation at the time of installation, soil compaction, minor changes in parkway elevation due to landscaping changes, settlement, and intrusion by tree roots. It should also be noted that although not all the streetlights would be replaced in the exact same location as the existing streetlights, replacements would be made in the same general locations (either adjacent to or across the street from existing streetlights). Further, the proposed streetlights are not expected to exceed the heights of other structures in the areas, including two- to three-story existing structures in the area, telephone poles, palm trees, etc. Lastly, as discussed in Section 4.2.8d, although part of the project site is located within Compatibility Zone "Other Airport Environs" of the Riverside Municipal Airport, only uses that would be hazardous to flight (such as tall structures) are prohibited within this zone.. The City provided additional information regarding the height and location of the proposed streetlights to the commenter on October 3, 2018, and November 1, 2018.

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From: Rull, Paul <PRull@RIVCO.ORG>
Sent: Friday, November 2, 2018 6:56 AM
To: jennifer mermilliod <jennifer@imrc.biz>
Subject: RE: P18-0585 historic street light standards

Thank you for the exhibits Jennifer.

Based on your exhibits, some of the lights will be located within the Flabob and March Air Reserve Airport Influence Area with the closest runway being Flabob (see attached). The nearest light pole to Flabob (located in your Area 4) is approximately 6,898 feet. The Federal Aviation Administration threshold for height obstacle obstruction for this site is 904 feet above mean sea level (AMSL). Based on the site elevation of 876 feet AMSL and height of the light structure of 15 feet, your top point elevation is 891 feet AMSL, which is below the FAA threshold and therefore does not require FAA review and subsequently does not require ALUC review. Please note in the future that if any of these light standards do exceed their FAA notification threshold, that review by the FAA would be required. You can find their submittal and review process online at this website - <https://oaaaa.faa.gov/oaaaa/external/portal.jsp>

B-1

If you have any questions, please feel free to contact me.

Paul Rull
ALUC Principal Planner



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RESPONSE TO COMMENT LETTER B

Riverside County Airport Land Use Commission

November 2, 2018

- B-1** Based on the information provided by the City, the commenter confirms that the height of the proposed streetlights are below the Federal Aviation Administration's threshold for height obstacle obstruction, and thus no potential issues regarding flight hazards are expected. No further response is required.

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**Mitigated Negative Declaration for the Proposed Street Light
Replacement for Areas 3–5B Project
City of Riverside**

Prepared for:

**City of Riverside
Community & Economic Development Department
Planning Division**

Prepared by:

DUDEK
3544 University Avenue
Riverside, California 92501

NOVEMBER 2018

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1 INTRODUCTION

1.1 California Environmental Quality Act Compliance

The City of Riverside (City), through its Community & Economic Development Department, Planning Division (Department), is the lead agency responsible for the review and approval of the proposed Street Light Replacement for Areas 3–5B Project (project or proposed project). The City has made the determination that a mitigated negative declaration (MND) is the appropriate environmental document to be prepared in compliance with the California Environmental Quality Act (CEQA). Similarly, MNDs were prepared and approved for the previous lighting phases of Area 1 (Planning Case P12-0043) and Area 2 (Planning Case P15-0344) in 2012 and 2015, respectively. Based on light complaints from Area 1 of the Wood Streets Street Light Project, the need for tree trimming in some areas, and the potential for sidewalk detours during light replacement activities, mitigation measures were incorporated into the previous Area 2 phase. Similar mitigation measures are proposed for Areas 3–5B of the proposed project to ensure impacts are less than significant.

As provided for by CEQA Section 21064.5, an MND may be prepared for a project subject to CEQA when an Initial Study has identified potentially significant effects on the environment, but (1) revisions in the project plans or proposals made by, or agreed to by, the applicant before the proposed MND and Initial Study are released for public review would avoid the effects or mitigate the effects to a point where clearly no significant effect on the environment would occur; and (2) there is no substantial evidence in light of the whole record before the public agency that the project, as revised, may have a significant effect on the environment.

The City has prepared an MND in conformance with Section 15070(a) of the CEQA Guidelines. The purpose of the MND and the Initial Study Checklist/Environmental Evaluation is to describe the proposed project, determine any potentially significant impacts associated with the proposed project, and incorporate mitigation measures into the project design as necessary to reduce or eliminate the potentially significant effects of the project.

1.2 Public Review Process

Pursuant to CEQA Guidelines Section 15105(b), the MND will be available for a public comment period of not less than 20 days from September 21, 2018, to October 11, 2018.

In reviewing the MND, affected public agencies and the interested public should focus on the sufficiency of the document in identifying and analyzing the possible impacts on the environment, as well as ways in which the significant effects of the project are proposed to be avoided or mitigated.

Comments may be made on the MND in writing before the end of the comment period. Following the close of the public comment period, the City will consider this MND and comments thereto in determining whether to approve the proposed project. Written comments on the MND should be sent to the following address by October 11, 2018:

Jennifer Mermilliod, MA
City of Riverside
Community & Economic Development Department
Planning Division
3900 Main Street, 3rd Floor
Riverside, California 92522

2 PROJECT DESCRIPTION

2.1 Project Background

The City of Riverside Public Utilities Department is currently in the process of replacing the historic light standards within the historic districts of the City. The Wood Streets Historic District and the Wood Streets Neighborhood Conservation Area (NCA) covered in the phases of Area 1 and Area 2 includes a group of adjacent residential subdivisions that represent the City's most coherent examples of 1920s and 1930s residential neighborhoods in their style, scale, and tone. The first phase of the project (Area 1) was approved on March 21, 2012, by the Cultural Heritage Board under Certificate of Appropriateness Case No. P12-0043, and replacement began in January 2014. The first phase of the project proposed replacement of 202 of the 243 historic light standards in Area 1, which included portions of the Wood Streets Historic District and the NCA. New replica standards have replaced the 159 existing Corsican standards and fiberglass standards that were in poor condition. Of the remaining standards, 43 were in good condition and were retained, and 41 were in poor condition and were removed. To date, all light fixtures in Area 1 have been replaced.

The second phase of the project (Area 2) was approved on August 19, 2015, by the Cultural Heritage Board under Certificate of Appropriateness Case No. P15-0344 and continues the process of historic light standard replacement in Area 2. Replacement of light fixtures in Area 2 commenced in 2017. The second phase of the project proposed replacement of 250 of the 284 historic light standards and improved lighting for the remaining standards, which is within the Wood Streets NCA only. Area 2 was completed in November 2017.

The proposed project would be the third phase of historic street light replacements within the City, and would continue the process of historic light standard replacements in Areas 3–5B.

2.2 Project Location

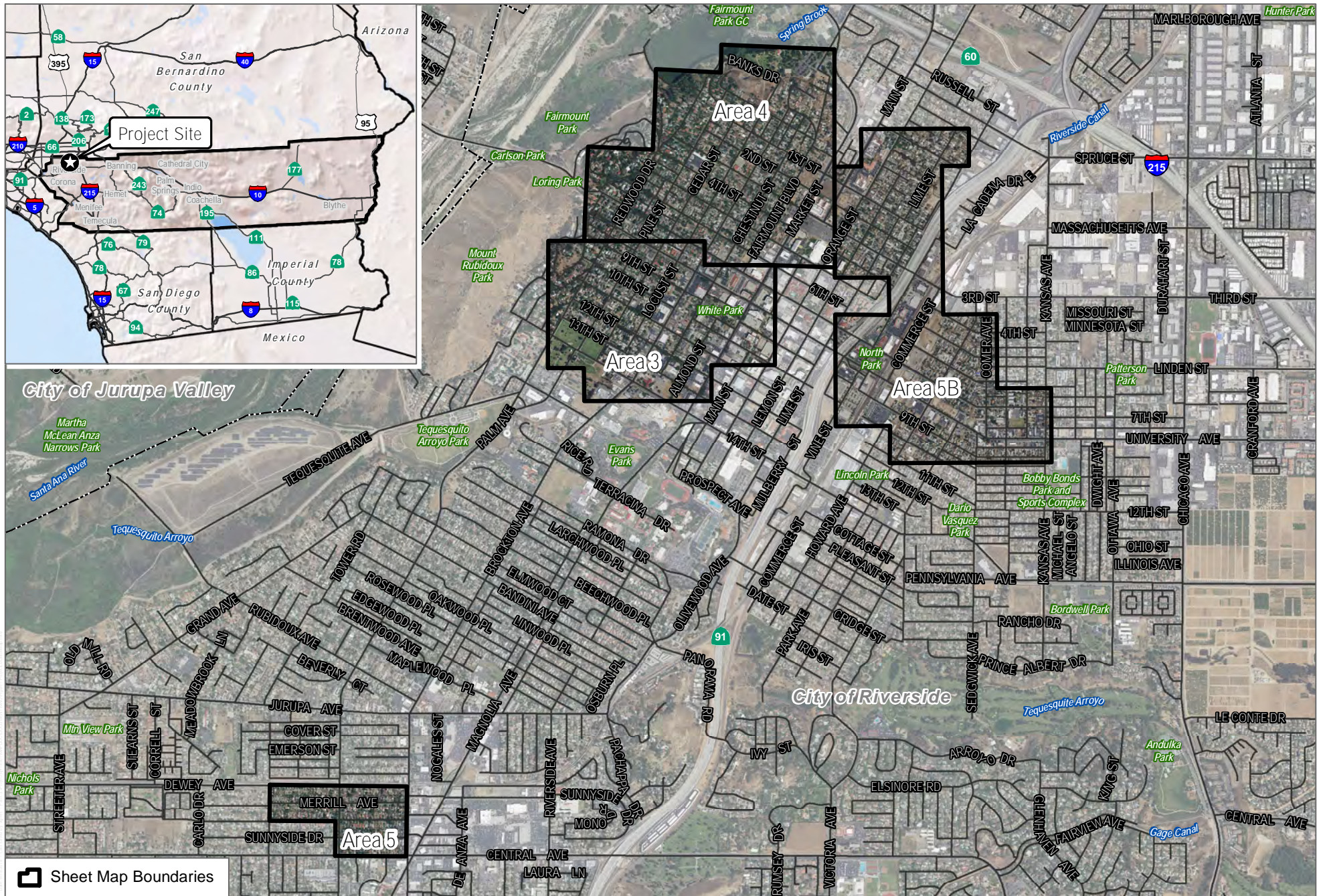
The proposed project includes four areas, Area 3, Area 4, Area 5, and Area 5B, located within the City of Riverside Downtown, Magnolia Center, and Eastside neighborhoods, and intersect with the Historic Districts and NCAs listed as follows. The proposed project locations are shown in Figure 1, Project Location Map; and Figure 2, Aerial Map. The proposed project covers approximately 29.94 linear miles of streets within the City, with an approximate 11,124 square feet impact area.¹

¹ The impact area as a result of the proposed project was calculated by taking the footing of the Corsican concrete (UGS-801) poles (approximately 3 square feet), multiplied by the proposed number of streetlights to be replaced (approximately 1,225).

Area 3 is approximately 257 acres, located just east of Mount Rubidoux Park, and is generally encompassed by the roadways of Mission Inn Avenue to the north, Market Street to the east, 14th Street to the south, and Redwood Drive to the west. Lighting replacements within Area 3 would generally occur along public rights-of-way of 14th Street, 13th Street, 12th Street, 11th Street, 10th Street, 9th Street, Pine Street, Redwood Drive, Cedar Street, Locust Street, Brockton Avenue, Chestnut Street, Whittier Place, Hidalgo Place, and Almond Street. The latitude and longitude of the approximate center of Area 3 is 33°58'53" N and 117°22'53" W. The project site includes parts of Sections 22 and 23 of Township 2 South, Range 5 West within the Riverside West 7.5-minute quadrangle, as mapped by the U.S. Geological Survey.

Area 4 is approximately 354 acres and is located immediately south of Lake Evans, approximately 0.3 miles east of the Santa Ana River Trail, and immediately north of Area 3. Area 4 is generally encompassed by the roadways of Mission Inn Avenue to the south, Market Street and Main Street to the east, Banks Drive to the north, and Beacon Way to the west. Fairmount Park and Lake Evans also border Area 4 to the northwest. Lighting replacements within Area 4 would generally occur along public rights-of-way of University Avenue, Mt. Rubidoux Drive, Redwood Drive, Lakehill Place, Pine Street, Cedar Street, Locust Street, Brockton Avenue, Chestnut Street, Fairmont Boulevard, 6th Street, 5th Street, 4th Street, 3rd Street, 2nd Street, 1st Street, Houghton Avenue, and Crescent Avenue. The latitude and longitude of the approximate center of Area 4 is 33°59'21" N and 117°22'37" W. The project site includes parts of Sections 14, 22, and 23 of Township 2 South, Range 5 West within the Riverside West 7.5-minute quadrangle, as mapped by the U.S. Geological Survey.

Area 5 is approximately 60 acres and is located within Riverside's Magnolia Center, approximately 0.8 miles west of State Route 91, approximately 0.3 miles south of Jurupa Avenue, and approximately 1.7 miles southwest of Area 3. Area 5 is bound by Dewey Avenue to the north, Arch Way to the west, Central Avenue to the south, and Brockton Avenue to the east. Lighting replacements within Area 5 would occur along public rights-of-way of Merrill Avenue, Beatty Drive, Palm Avenue, and Sunnyside Drive. The latitude and longitude of the approximate center of Area 5 is 33°57'20" N and 117°23'57" W. The project site includes parts of Sections 33 and 34 of Township 2 South, Range 5 West within the Riverside West 7.5-minute quadrangle, as mapped by the U.S. Geological Survey.



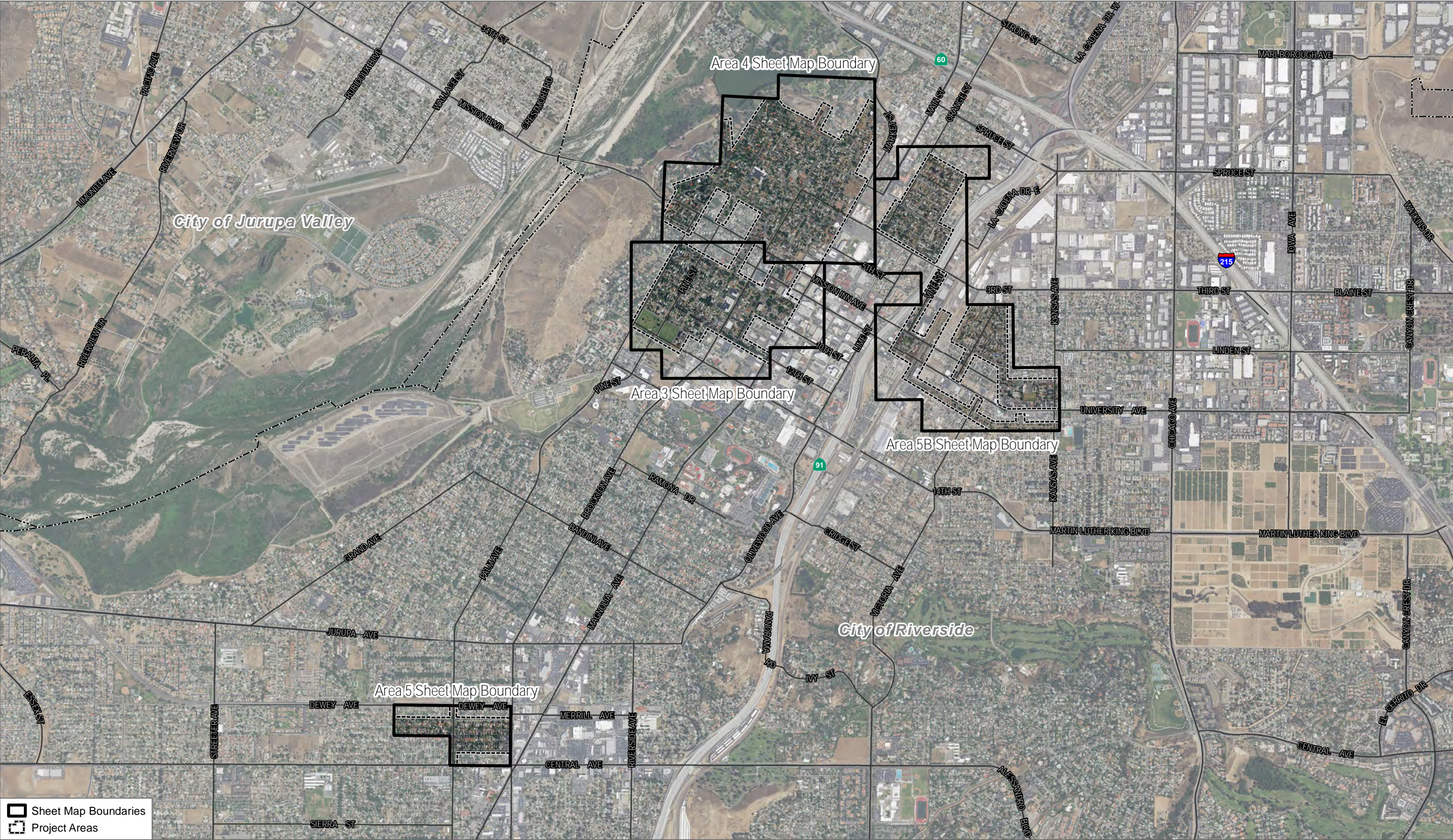
SOURCE: City of Riverside Department of Public Works 2016; City of Riverside 2018; NAIP 2016

FIGURE 1

Project Location

Street Light Replacement for Areas 3-5B Project

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Area 5B is approximately 364 acres and is located within Riverside's Eastside, approximately 1.3 miles west of Interstate 215, and borders Area 4 to the east. Area 5B is generally encompassed by the roadways of Orange Street and Vine Street to the west; Holding Street to the north; East La Cadena Drive, Eucalyptus Avenue, and Kansas Avenue to the east; and 9th Street and 10th Street to the south. State Route (SR) 91 bisects Area 5B in a southwest–northeast direction, intersecting 3rd Street near the center of Area 5B. Lighting replacements within Area 5B would generally occur along public rights-of-way of Hiawatha Place, Lime Street, Twogood Lane, Hewitt Street, Orange Street, 1st Street, 2nd Street, Lemon Street, Mulberry Street, Vine Street, Mission Inn Avenue, University Avenue, Commerce Street, 4th Street, 5th Street, 6th Street, 7th Street, Park Avenue, 9th Street, Victoria Avenue, Comer Avenue, Eucalyptus Avenue, Franklin Avenue, and Kansas Avenue. The latitude and longitude of the approximate center of Area 5B is 33°57'20" N and 117°23'57" W. The project site includes parts of Sections 13, 14, 23, 24, 25, and 26 of Township 2 South, Range 5 West within the Riverside West 7.5-minute quadrangle, as mapped by the U.S. Geological Survey.

The project boundaries encompass 13 of the City's designated and potential historic districts and NCAs (City of Riverside 2017). These historic districts and NCAs within the associated project area are listed as follows, and depicted in Figure 3. (Note: Several districts are located in multiple areas.)

Area 3

Seventh Street Historic District
Evergreen Quarter Historic District
Mount Rubidoux Historic District
Mission Inn Historic District

Area 4

Seventh Street Historic District
Evergreen Quarter Historic District
Mount Rubidoux Historic District
Mission Inn Historic District
Colony Heights Historic District
North Hill Historic District
Mile Square Northwest Potential Historic District

Area 5

Palm Heights Historic District

Area 5B

Seventh Street Historic District

Seventh Street East Historic District

Ninth Street NCA

Citrus Thematic Potential Historic District

Heritage Square Historic District

St. Andrews Terraces NCA

2.3 Project Characteristics

The proposed project currently contains a total of 1,225 historic light standards. Broken down, Area 3 contains a total of 260 historic light standards; Area 4 contains 515; Area 5 contains 86; and Area 5B contains 364. Of these 1,225 existing historic light standards, 808 are proposed for replacement with previously approved replica Corsican standards (Phase 1), and 417 will be protected in place, which include Metal Corsican, Monuments, Concrete Fox, and Rain Cross standards, and some TC Metal. All street light standards with the exception of 7 monumental standards that will be left unchanged, will receive improved lighting through the installation of the previously approved Acorn luminaire (Phase 1) with 23-watt LED luminaire that was developed during the completion of Phase 2 of the replacement project in the Wood Streets NCA (Area 2).² Table 1 summarizes the number of existing lighting standards and number of proposed light standard replacements by area.

Table 1
Existing and Proposed Lighting in Areas 3–5B

Light Fixture	Number of Existing Light Fixtures				Number of Proposed Light Fixtures Replaced			
	Area 3	Area 4	Area 5	Area 5B	Area 3	Area 4	Area 5	Area 5B
TC Concrete	142	323	1	121	142	323	1	121
TC Metal ¹	37	75	6	16	8	21	0	8
TC Fiber Glass	39	69	0	72	39	69	0	72
Corsican ²	42	21	0	145	0	0	0	0
Corsican 1	0	2	0	0	0	0	0	0
Metal Corsican ¹	0	11	79	0	0	0	0	0
Acorn Concrete	0	4	0	0	0	4	0	0
Monument ³	0	7	0	0	0	0	0	0
Concrete Fox ¹	0	3	0	0	0	0	0	0
Rain Cross ¹	0	0	0	10	0	0	0	0
Total by Area	260	515	86	364	189	417	1	201
Combined Total (Areas 3–5B)	1,225				808			

² Lower watt LED luminaires are currently being developed. If such bulbs are commercially available at the time construction of the proposed project in Areas 3–5B commences, and it meets the City standards, it may be used. It will not affect the proposed street light locations.

Notes: TC = Town & Country.

¹ Metal Corsican, Concrete Fox, and Rain Cross standards, and some TC Metal would be protected in place and receive new Acorn top with LED luminaire. RPU will work with Historic Preservation Staff in the Community and Economic Development Department to determine which TC Metal will be replaced and which will be protected in place.

² All existing replica Corsican fixtures would be replaced with the same kind, only if damaged, and receive a new Acorn top with LED luminaire.

³ Monument style lighting will be untouched.

Visual examples of each type of existing lighting standard and proposed standard are shown in Appendix A. Whereas some existing street lights are across from each other, the new layout for the light standards will be staggered so street lights would not always remain in the same location as existing. The proposed project would take place within the public rights-of-way within approximately 1,035 combined acres. Figure 4 through Figure 7 depict the locations of existing lighting fixtures by style to be replaced within each area (Areas 3–5B) of the combined project site. The term “project site” will be used to refer to, or conditions throughout, all areas (Areas 3—5B) combined.

As described in Section 2.2, proposed replacement lighting within Areas 3–5B would include replacements along the following streets:

- 1st Street
- 2nd Street
- 3rd Street
- 4th Street
- 5th Street
- 6th Street
- 7th Street
- 9th Street
- 10th Street
- 11th Street
- 12th Street
- 13th Street
- 14th Street
- Almond Street
- Beatty Drive
- Brockton Avenue
- Cedar Street
- Chestnut Street
- Comer Avenue
- Commerce Street
- Crescent Avenue
- Eucalyptus Avenue
- Fairmont Boulevard
- Franklin Avenue
- Hewitt Street
- Hiawatha Place
- Hidalgo Place
- Houghton Avenue
- Kansas Avenue
- Lakehill Place
- Lemon Street
- Lime Street
- Locust Street
- Merrill Avenue
- Mission Inn Avenue
- Mt. Rubidoux Drive
- Mulberry Street
- Orange Street
- Palm Avenue
- Park Avenue
- Pine Street
- Redwood Drive

- Sunnyside Drive
- Twogood Lane
- University Avenue
- Victoria Avenue
- Vine Street
- Whittier Place

2.4 Need for Project

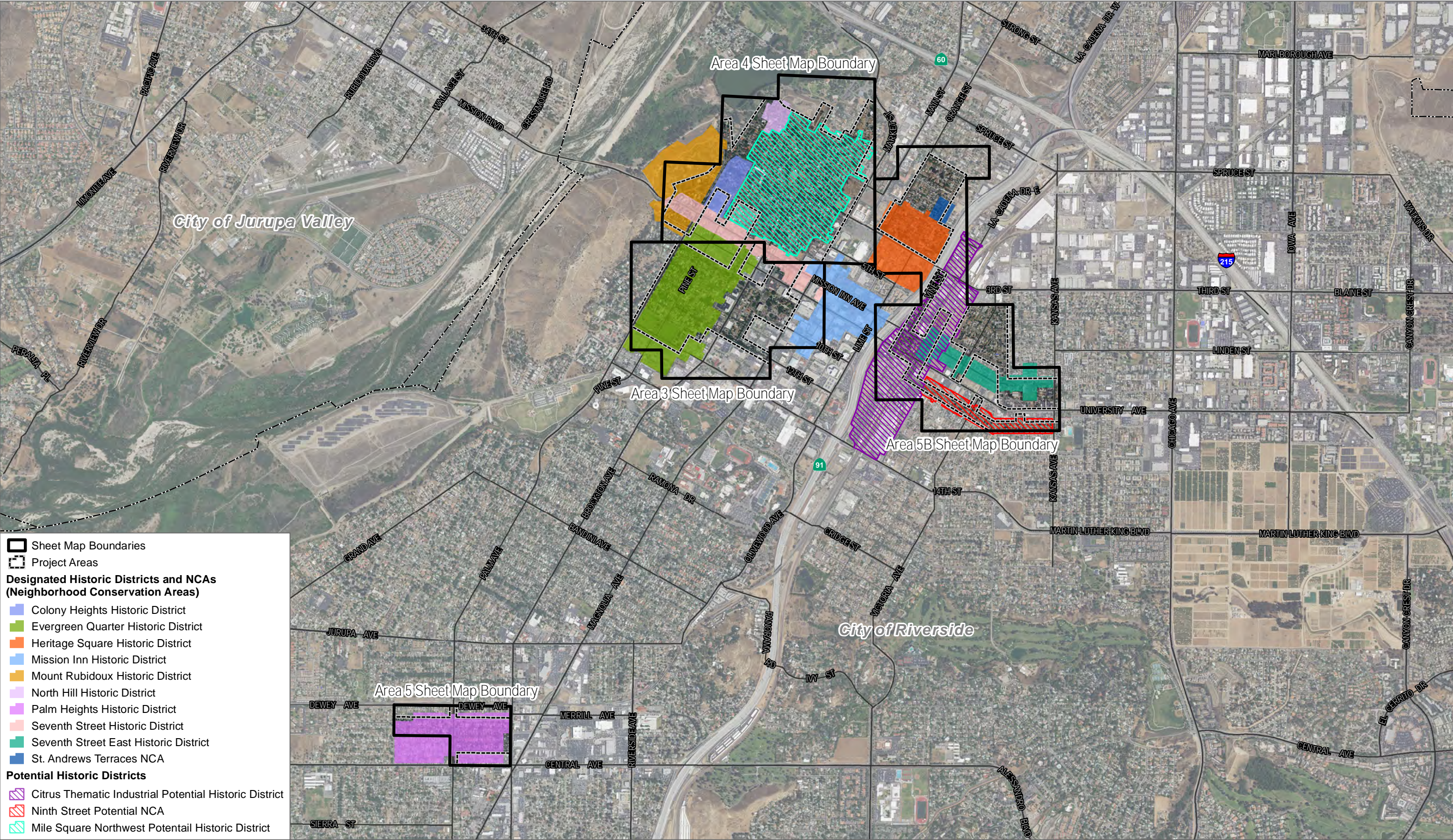
The proposed project would continue the current replacement of the light standards as approved for the previous phases of Area 1 and Area 2. Many of the existing light standards are in poor condition and are inefficient related to energy usage and require replacement. Based on maintenance records, direct embedment installation of the historic concrete standards has been found to require constant maintenance and result in substantial safety hazards. Changing soil conditions around this substandard foundation method has caused streetlights to lean substantially after heavy rain events, which can lead to falling lights and weak spots in stressed electrical conduit that runs up through the void in the concrete embedment resulting in the potential for stray current and electric shock hazards. The project would install replicas of the existing styles to ensure compliance with Title 20 of the City's Municipal Code, Cultural Resources, which provides standards and requirements for historic preservation in the City, as well as General Plan Policy HP-1.2, which states (City of Riverside 2007a):

The City shall assume its direct responsibility for historic preservation by protecting and maintaining its publicly owned cultural resources. Such resources may include, but are not limited to, buildings, monuments, landscapes, and right-of-way improvements, such as retaining walls, granite curbs, entry monuments, light standards, street trees, and the scoring, dimensions, and patterns of sidewalks, driveways, curbs and gutters.

The project's purpose is to support the City's ongoing efforts to maintain the integrity of its cultural resources while providing current and effective services to its residents. Riverside Public Utilities (RPU) is funding the project through their capital expenditure account under Neighborhood Street Light Retrofit projects.

2.5 Surrounding Land Uses

The uses adjacent to the proposed project site include a mixture of residential development, commercial, office, public services, industrial, public parks, schools, and churches. Notable landmarks and uses in the surrounding project area include Riverside Community Hospital, south of Area 3; Mount Rubidoux Park, west of Area 3; Fairmount Park and Lake Evans, northwest of Area 4; SR 60, north of Areas 4 and 5B; and Riverside Plaza Shopping Center, east of Area 5.

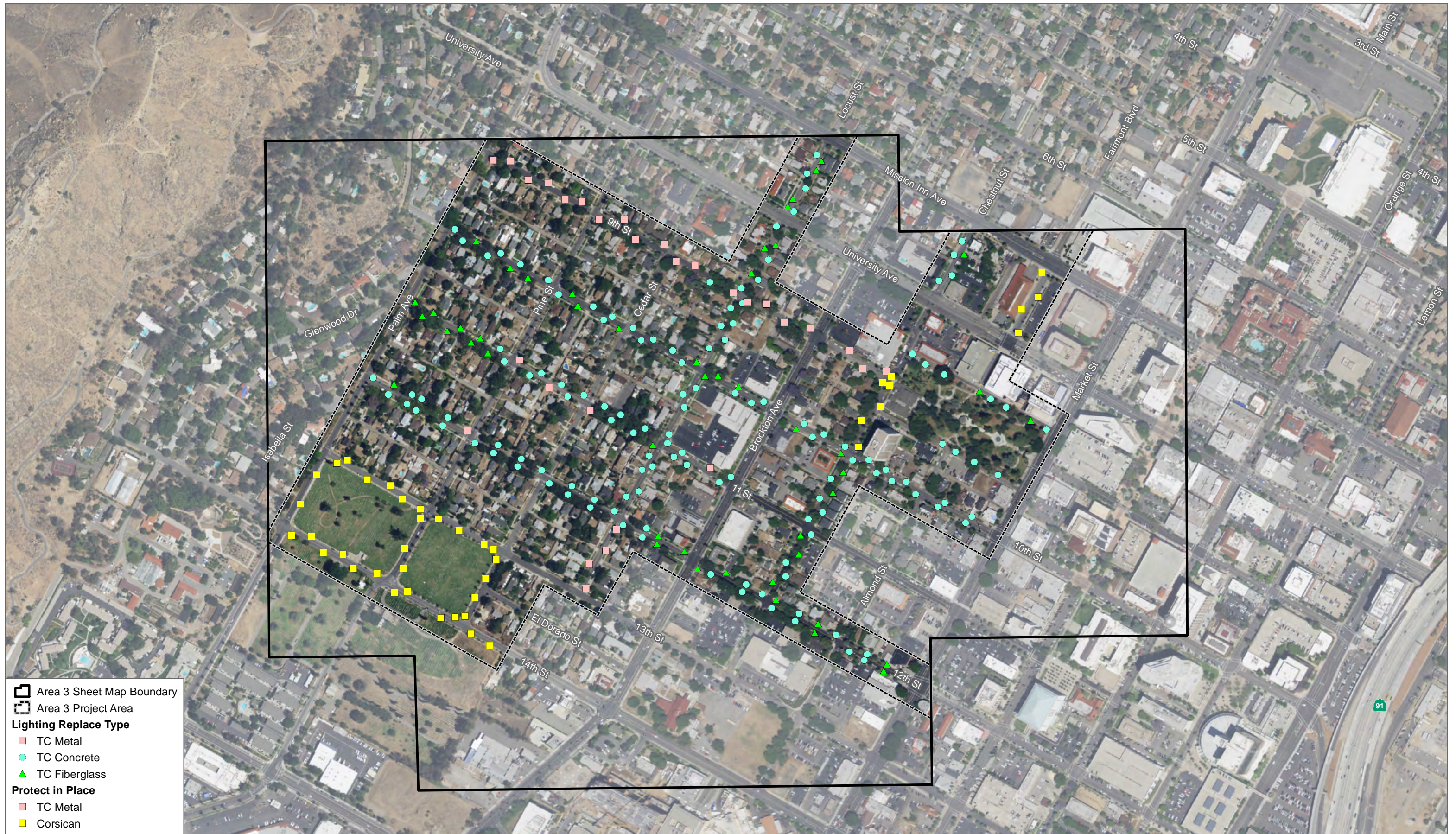


SOURCE: City of Riverside Department of Public Works 2016; City of Riverside 2018; NAIP 2016



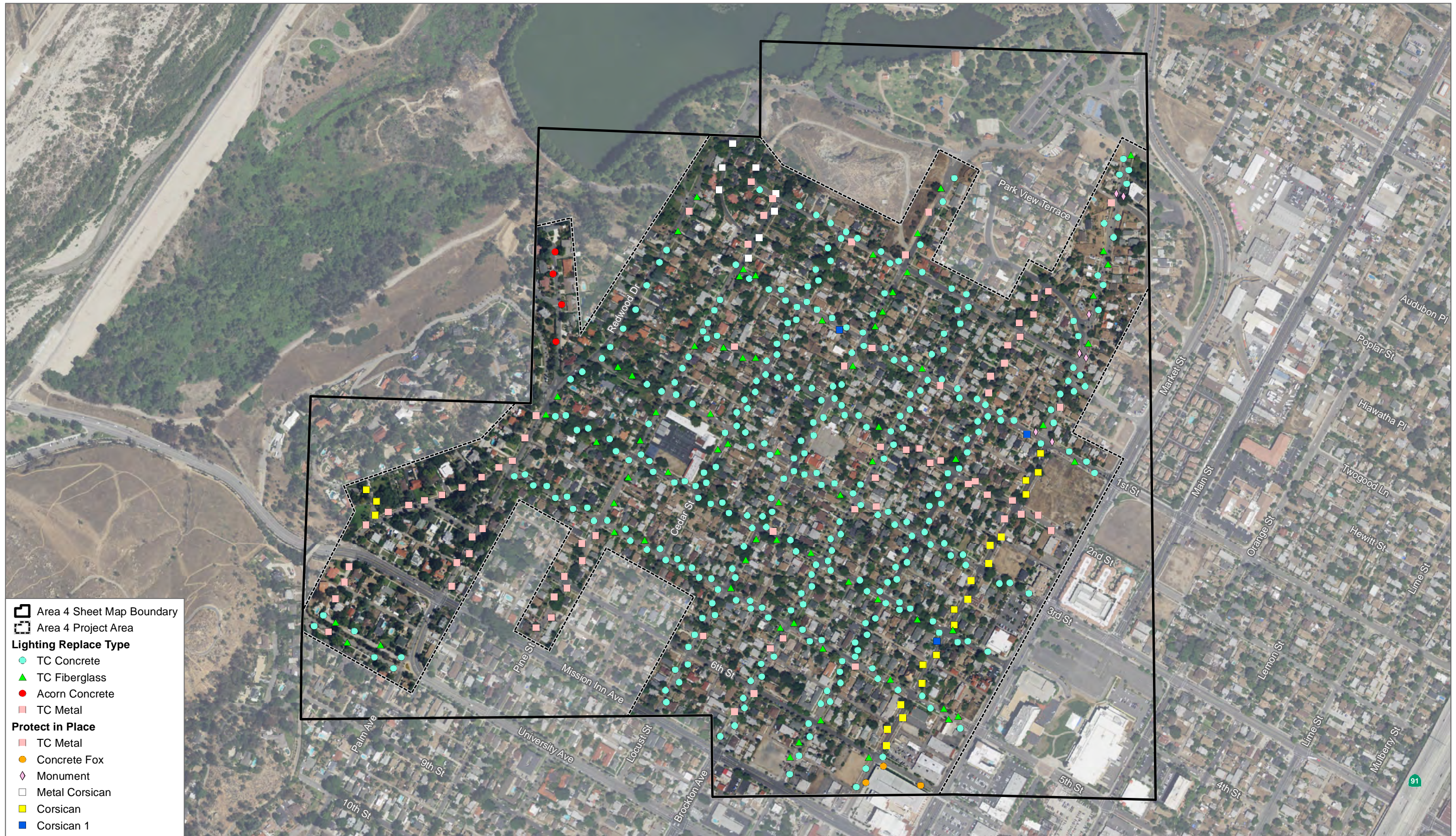
FIGURE 3
Historic Districts within Project Boundary
Street Light Replacement for Areas 3-5B Project

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SOURCE: City of Riverside Department of Public Works 2016; City of Riverside 2018; NAIP 2016

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SOURCE: City of Riverside Department of Public Works 2016; City of Riverside 2018; NAIP 2016



FIGURE 5

Lighting Replacement Map - Area 4

Street Light Replacement for Areas 3-5B Project

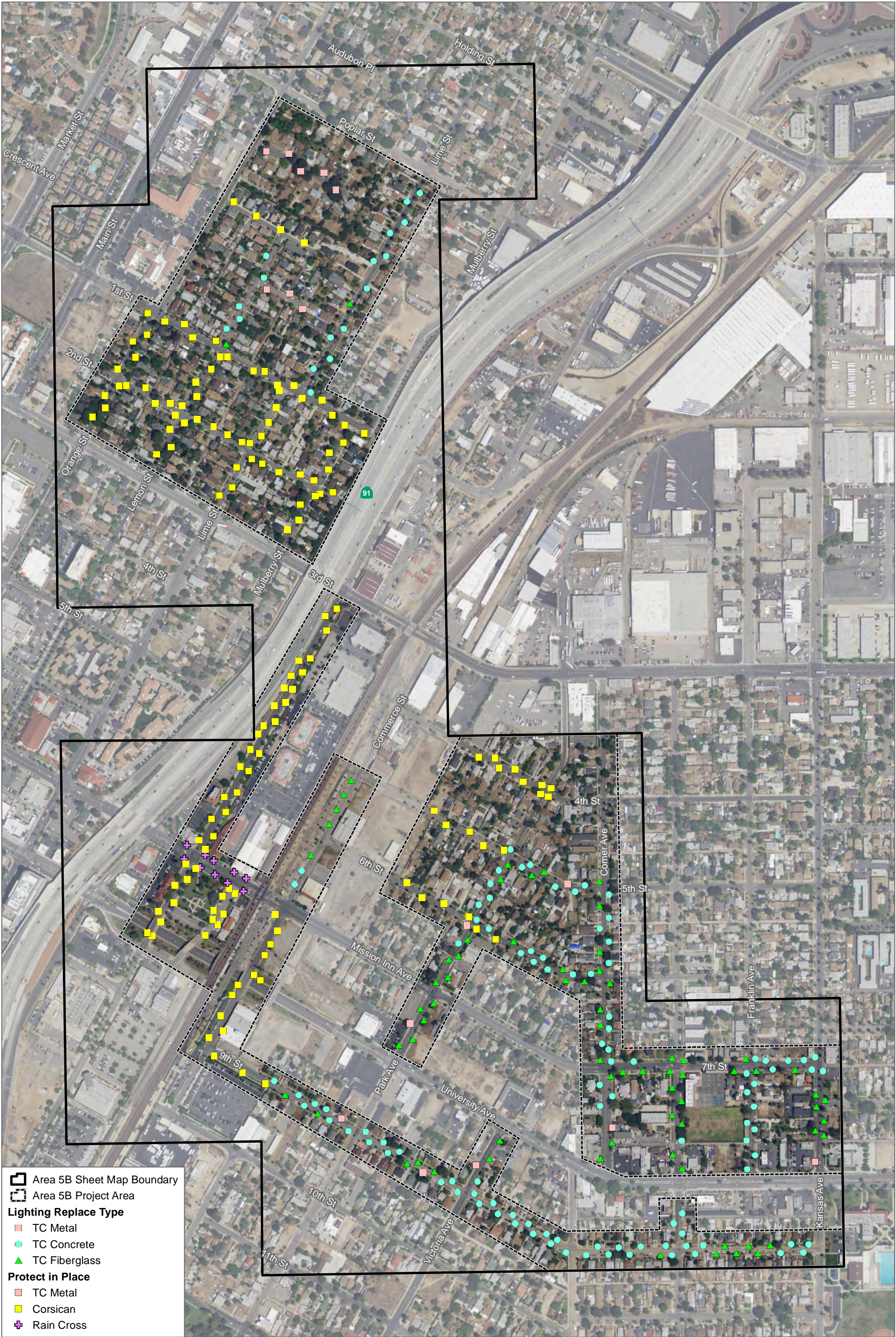
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SOURCE: City of Riverside Department of Public Works 2016; City of Riverside 2018; NAIP 2016

FIGURE 6
Lighting Replacement Map - Area 5
Street Light Replacement for Areas 3-5B Project

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Area 5B Sheet Map Boundary

Area 5B Project Area

Lighting Replace Type

TC Metal

TC Concrete

TC Fiberglass

Protect in Place

TC Metal

Corsican

Rain Cross

SOURCE: City of Riverside Department of Public Works 2016; City of Riverside 2018; NAIP 2016



FIGURE 7

Lighting Replacement Map - Area 5B

Street Light Replacement for Areas 3-5B Project

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3 FINDINGS

Based on the environmental discussion provided in Section 4 of this MND, the City finds that the proposed project would have less-than-significant impacts with the proposed mitigation incorporated. Therefore, an MND is proposed to satisfy the requirements of CEQA (California Public Resources Code, Section 21000 et seq.).

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4 ENVIRONMENTAL CHECKLIST

1. Case Number:

P18-0585 (Certificate of Appropriateness)

2. Project Title:

Street Light Project Areas 3–5B

3. Hearing Date:

October 17, 2018

4. Lead Agency Name and Address:

City of Riverside
Community & Economic Development Department
Planning Division
3900 Main Street, 3rd Floor
Riverside, California 92522

5. Contact Person, Phone Number, and Email:

Jennifer Mermilliod, MA, Historian/Architectural Historian
Contract Historic Preservation Senior Planner
951.233.6897
jennifer@jmrc.biz

6. Project Location:

Portions of Downtown, Magnolia Center, and Eastside Neighborhoods
Riverside, California 92501 and 92506

7. Project Sponsor's Name and Address:

Applicant

Riverside Public Utilities
3750 University Avenue, 3rd Floor
Riverside, California 92501

Property Owner

City of Riverside
3900 Main Street
Riverside, California 92522

8. General Plan Designation:

Public Rights-of-Way adjacent to MDR - Medium Density Residential, MHDR – Medium High Density Residential, DSP – Downtown Specific Plan, O – Office, B/OP – Business/Office Park, I – Industrial, MU-N – Mixed Use-Neighborhood, PF - Public Facilities/Institutional, P – Public Park, and OS – Open Space.

9. Zoning:

Public Rights-of-Way adjacent to Residential Zones R-1-7000, R-3-3000, R-3-2500, and R-3-1500; Commercial/Industrial Zones O, CR, CG, BMP, and I; Downtown Specific Plans DSP-AS, DSP-HC, DSP-JC, DSP-MSG, DSP-NC, DSP-NMS, DSP-PPO, DSP-RC, and DSP-RES; and Other Zones (PF).

10. Description of Project:

Refer to Section 2, Project Description.

11. Existing Land Use and Setting:

The approximately 1,035-acre project site consists of existing historic and non-historic residences, commercial and industrial development, public park and open space areas, and institutional uses (including schools and churches). The proposed project would occur within the public rights-of-way and parkways within the project site.

12. Surrounding Land Uses and Setting (briefly describe the project's surroundings):

The uses adjacent to Area 3 include, residential development to the west; residential development and the Riverside Community Hospital to the south; commercial, office, public service, and some residential uses to the east; and residential, public service, and commercial uses to the north (including Area 4).

The uses adjacent to Area 4 include, residential development and open space to the west; residential uses and Lake Evans open space to the north; residential uses and open space to the

east; residential, commercial, and public service uses to the west (including Area 5B); and residential and commercial development to the south (including Area 3).

The uses adjacent to Area 5 include commercial, residential, and public service use to the west (including Area 4); residential and commercial uses to the north; commercial, industrial, residential, and public service uses to the east.

The uses adjacent to Area 5B include residential uses and open space to the north; residential uses to the east and south; and residential and commercial uses to the west.

Adjacent Existing General Plan/Land Use:

Area 3

- North: DSP—Downtown Specific Plan, MDR—Medium Density Residential
- South: DSP—Downtown Specific Plan, PF—Public Facilities/Institutional
- East: DSP—Downtown Specific Plan
- West: MDR—Medium Density Residential

Area 4

- North: DSP—Downtown Specific Plan, P—Public Park
- South: MDR—Medium Density Residential, DSP—Downtown Specific Plan,
- East: DSP—Downtown Specific Plan, MDR—Medium Density Residential
- West: P—Public Space, OS—Open Space/Natural Resources, MDR—Medium Density Residential

Area 5

- North: MDR—Medium Density Residential, P—Public Park,
- South: MDR—Medium Density Residential, HDR—High Density Residential
- East: O—Office, MDR—Medium Density Residential, MHDR—Medium High Density Residential,
- West: MDR—Medium Density Residential

Area 5B

- North: MDR—Medium Density Residential, B/OP – Business/Office Park
- South: MDR—Medium Density Residential
- East: MU-V—Mixed-Use Village
- West: DSP—Downtown Specific Plan

Adjacent Zoning:

Area 3

- North: R-1-7000 – Single Family Residential Zone, DSP-AS – Downtown Specific Plan – Almond Street District, DSP-NC – Downtown Specific Plan – Neighborhood Commercial, DSP-RES – Downtown Specific Plan – Residential District, R-3-1500 – Multi-Family Residential Zone.
- South: R-1-7000 – Single Family Residential Zone, DSP-AS – Downtown Specific Plan – Almond Street District
- East: DSP-JC – Downtown Specific Plan – Justice Center District, DSP-RC – Downtown Specific Plan – Raincross District, DSP-AS – Downtown Specific Plan – Almond Street District
- West: R-1-7000 – Single Family Residential Zone

Area 4

- North: R-1-7000 – Single Family Residential Zone, PF – Public Facilities Zone
- South: R-1-7000 – Single Family Residential Zone, DSP-RES – Downtown Specific Plan – Residential District, DSP-NC – Downtown Specific Plan – Neighborhood Commercial, DSP-RC – Downtown Specific Plan – Raincross District, R-3-1500 – Multi-Family Residential Zone
- East: R-1-7000 – Single Family Residential Zone, R-1-13000 – Single Family Residential Zone
- West: R-1-7000 – Single Family Residential Zone, DSP-RC – Downtown Specific Plan – Raincross District, DSP-MGS – Downtown Specific Plan – Market Street Gateway District

Area 5

- North: R-1-7000 – Single Family Residential Zone
- South: R-1-7000 – Single Family Residential Zone
- East: R-1-7000 – Single Family Residential Zone, O – Office Zone, GC – Commercial General Zone, CR – Commercial Retail Zone
- West: R-1-7000 – Single Family Residential Zone, O – Office Zone

Area 5B

- North: BMP – Business Manufacturing Park Zone, R-3-1500 – Multi-Family Residential Zone, North, R-1-7000 – Single Family Residential Zone
- South: CR – Commercial Retail Zone
- East: BMP – Business Manufacturing Park Zone, R-3-1500 – Multi-Family Residential Zone, North: R-1-7000 – Single Family Residential Zone, CR – Commercial Retail Zone
- West: CR – Commercial Retail Zone, R-1-7000 – Single Family Residential Zone, PF – Public Facilities Zone

13. Other Public Agencies Whose Approval is Anticipated to be Required (e.g., permits, financial approval, or participation agreement):

- a. Riverside Public Utilities
- b. Riverside Public Works

14. Other Documents Referenced in this Review:

- a. Riverside General Plan 2025 (GP 2025)
- b. Zoning Code, Title 19
- c. General Plan 2025 Final Programmatic Environmental Impact Report (FPEIR)
- d. Title 20, Cultural Resources
- e. California Integrated Waste Management Board 2002 Landfill Facility Compliance Study.

15. Acronyms

AQMP	Air Quality Management Plan
CBC	California Building Code
CEQA	California Environmental Quality Act
City	City of Riverside
CMP	Riverside County Congestion Management Plan
CO	carbon monoxide
DOC	California Department of Conservation
FPEIR	GP 2025 Final Programmatic Environmental Impact Report
GHG	Greenhouse Gas
GP	General Plan
GP 2025	City of Riverside General Plan 2025
HPS	high pressure sodium
LOS	level of service
MND	mitigated negative declaration
MRZ	Mineral Resource Zone
MSHCP	Multiple Species Habitat Conservation Plan
NCA	Neighborhood Conservation Area
NO _x	oxides of nitrogen
O ₃	ozone
PM _{2.5}	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in diameter
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to 10 microns in diameter
RPU	City of Riverside Public Utilities
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SR 60	State Route 60
SR 91	State Route 91

4.1 Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a “potentially significant impact” as indicated by the checklist that follows.

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture and forestry resources | <input type="checkbox"/> Air quality |
| <input type="checkbox"/> Biological resources | <input checked="" type="checkbox"/> Cultural resources | <input type="checkbox"/> Geology/soils |
| <input type="checkbox"/> Greenhouse gas emissions | <input type="checkbox"/> Hazards and hazardous materials | <input type="checkbox"/> Hydrology/water quality |
| <input type="checkbox"/> Land use/planning | <input type="checkbox"/> Mineral resources | <input type="checkbox"/> Noise |
| <input type="checkbox"/> Population/housing | <input type="checkbox"/> Public services | <input type="checkbox"/> Recreation |
| <input checked="" type="checkbox"/> Transportation/traffic | <input checked="" type="checkbox"/> Tribal Cultural Resources | <input type="checkbox"/> Utilities/service systems |
| <input checked="" type="checkbox"/> Mandatory findings of significance | | |

DETERMINATION (to be completed by the lead agency)

On the basis of this initial evaluation, which reflects the independent judgment of the City of Riverside, it is recommended that:

The City of Riverside finds that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐

The City of Riverside finds that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☒

The City of Riverside finds that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT (EIR) is required.

☐

The City of Riverside finds that the proposed project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An EIR is required, but it must analyze only the effects that remain to be addressed.

☐

The City of Riverside finds that although the proposed project could have a significant effect on the environment, because all potentially significant effects (1) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (2) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

☐

Signature  _____

Date 09/18/2018

Signature  _____

Date 09/18/2018

4.2 Evaluation of Environmental Impacts

1. A brief explanation is required for all answers except “no impact” answers that are adequately supported by the information sources the lead agency cites in the parentheses following each question. A “no impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “no impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially significant impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “potentially significant impact” entries when the determination is made, an EIR is required.
4. “Negative declaration: Less than significant with mitigation incorporated” applies where the incorporation of mitigation measures has reduced an effect from a “potentially significant impact” to a “less-than-significant impact.” The lead agency must describe the mitigation measures and briefly explain how they reduce the effect to a less-than-significant level (mitigation measures from earlier analyses, as described in item 5, may be cross-referenced).
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration (14 CCR 15063(c)(3)(D)). In this case, a brief discussion should identify the following:
 - a. **Earlier Analysis Used.** Identify and state where they are available for review.
 - b. **Impacts Adequately Addressed.** Identify which effects from the checklist in Section 4.1 were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c. **Mitigation Measures.** For effects that are “less than significant with mitigation measures incorporated,” describe the mitigation measures that were incorporated or

refined from the earlier document and the extent to which they address site-specific conditions for the project.

6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting information sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8. The explanation of each issue should identify the following:
 - a. The significance criteria or threshold, if any, used to evaluate each question
 - b. The mitigation measure identified, if any, to reduce the impact to less than significant.

Issues (and Supporting Information Sources)		Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
4.2.1	Aesthetics – Would the project:				
a.	Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.1a.	<p>Response (Sources: <i>Proposed Project: City of Riverside 2012a, Figure CCM-4 – Master Plan of Roadways</i>):</p> <p>According to the City's General Plan (GP) 2025 Open Space and Conservation Element, the peak of Mount Rubidoux, which is located approximately 0.30 miles west of Area 3, provides a partial scenic viewpoint to some residents within the project boundaries. Existing development and vegetation within the project boundaries currently blocks most of the views from the residences or area streets to Mount Rubidoux. The proposed project consists of the replacement of existing historic light standards and luminaires of similar heights within public rights-of-way and thus would not substantially affect the residents' partial views to Mount Rubidoux, if it currently exists. Area 3 is the closest Area to Mount Rubidoux, and therefore potential views are not determined to be impacted as a result of lighting replacements in Areas 4, 5, and 5B.</p> <p>Area 5 is located just west of Magnolia Avenue, which is identified in Figure CCM-4, Master Plan of Roadways of the City's GP 2025, as a 120-foot arterial, Parkway, Scenic, and Special Boulevard. However, Magnolia Avenue is not within the Area 5 project boundary, and the proposed project would not have an aesthetic impact on Magnolia Avenue itself as there would be no light fixture replacement along this roadway. Because scenic vistas will not be affected by the project, impacts are considered less than significant either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
b.	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State Scenic Highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.1b.	<p>Response (Sources: <i>Caltrans 2011; City of Riverside 2012a, Circulation and Community Mobility Element, Figure CCM-4, and Open Space and Conservation Element</i>):</p> <p>Refer to Response 4.2.1a. There are no state scenic highways near the site as identified by the California Scenic Highways Program (Caltrans 2011). Therefore, there would be no impact on this local resource either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
c. Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.1c. Response (<i>Sources: Proposed Project; City of Riverside 2007a, Title 20 of the Riverside Municipal Code</i>):</p> <p>The project area currently consists of predominantly residential development, as well as commercial, office, industrial, public parks, public services, and institutional uses. Within this area, there are 1,225 existing light fixtures. The proposed project consists of the replacement of 808 of the 1,225 existing historic light standards with historically appropriate Corsican standards and installation of replacement Acorn LED luminaire tops in all but 7 monumental style streetlights found in Area 4. As discussed in Section 4.2.5a, the project would comply with and implement the applicable provisions in Title 20 and the Secretary of the Interior's Standards for the Treatment of Historic Properties related to historic resources; design standards and guidelines; and conditions of approval for the Certificate of Appropriateness. In some areas, the proposed project would replace the existing light fixtures to a more historically appropriate fixture, enhancing the character of the historic district(s). Further, both standard and post top luminaires that make up the proposed replica street lights, were found to be historically appropriate replacements of the historic concrete Corsicans through the prior environmental approvals for Area 1 and Area 2 (City of Riverside 2012b, 2015). Therefore, the proposed project would have a less-than-significant impact on the existing visual character and quality of the site and its surroundings, and no mitigation measures are required.</p>				
d. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>4.2.1d. Response (<i>Sources: Proposed Project; City of Riverside 2007b, Title 19 – Article VIII – Chapter 19.556 – Lighting, Citywide Design and Sign Guidelines</i>):</p> <p>The project site is already an illuminated area. Currently there are sources of nighttime light and glare from the existing development and the 1,225 existing light fixtures on public rights-of-way within the project boundary. Damaged or historically inappropriate standards and lighting would be removed and replaced by new energy efficient and historically appropriate replica concrete standards and luminaires. The proposed luminaires will include LED lights up to 66 watts (or approved equal) that would be evenly spaced through the project area, providing a uniform, more focused spread of light for increased safety, while using less energy than existing lights. There would be no substantial increase in light or glare from existing conditions. The proposed project would include a photometrics study designed to comply with City requirements and policies, to be reviewed by City staff during plan check review. Further, both standard and post top luminaires that make up the proposed replica streetlights, were found to be historically appropriate replacements of the historic concrete Corsicans through the prior environmental approvals for Area 1 and Area 2 (City of Riverside 2012b, 2015). Nonetheless, following project completion for Areas 1 and 2, residents noted that light color quality, which is expressed as Kelvins (K), was modified and color quality was recognized as a previously overlooked aspect of historic character of the district or neighborhood. Areas 1 and 2 were installed with 3000K LED lights, which effected a brighter, whiter color quality than the warm amber glow of the historic light source. Street lights in Areas 3–5B are proposed to include newly available, maximum 2700K LED bulbs, which will provide a warmer light than installed in Areas 1 and 2. However, light color quality is a continually evolving aspect of LED technology and bulbs as low as 2400K and 2100K are now being tested for manufacture. As these become commercially available, light color quality will continue to be assessed by residents through ongoing pilot programs on scattered historic blocks, and final selection, up to 2700K bulbs, will be based on further input from the community in order to retain appropriate light color warmth in historic areas. As such, in the event the City receives complaints with regard to the illumination produced by the light replacement fixtures, mitigation measure MM-AES-1 has been incorporated to ensure light and glare impacts do not significantly impact the project area. Thus, the proposed project will have a less-than-significant impact with mitigation incorporated on day or nighttime views directly, indirectly, or cumulatively.</p> <p>MM-AES-1: In the event the City of Riverside receives complaints with regard to illumination produced by the new light replacement fixtures, the City will work with the property owners on a case-by-case basis to resolve light, glare, and color issues by implementing features such as diffuser with shield to minimize light pollution or lower Kelvin bulbs to achieve appropriate light color warmth.</p>				

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
4.2.2 Agriculture and Forestry Resources – Would the project:				
In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation (DOC) as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project, and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.				
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.2a. Response (Sources: DOC 2010; City of Riverside 2012a, Open Space and Conservation Element, Figure OS-2 – Agricultural Suitability): The proposed project would entail the replacement of existing light standards within the public rights-of-way within the project boundary. The subject site is designated “Urban and Built-Up Land” by the DOC Farmland Mapping and Monitoring Program (DOC 2010) and as depicted in Figure OS-2 of the City's GP 2025 (City of Riverside 2012a). The DOC (2010) defines “Urban and Built-Up Land” as occupied structures with a building density of at least 1 unit to 1.5 acres, or approximately 6 structures to a 10-acre parcel. Since the site is already developed and is not located on any Farmland designations, no conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to nonagricultural use would occur. As such, the project will have no impact directly, indirectly, or cumulatively on agricultural resources.				
b. Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.2b. Response (Sources: City of Riverside 2012a, General Plan 2025 Zoning Map of the City of Riverside; General Plan 2025 Land Use Policy Map, Open Space and Conservation Element, Figure OS-3 – Williamson Act Preserves; DOC 2012): The City's Land Use Zoning Map and General Plan Land Use Map indicate that no portion of the project site is located within an area that is zoned for agricultural use. The site carries land use designations of MDR – Medium Density Residential, MHDR – Medium High Density Residential, DSP – Downtown Specific Plan, O – Office, B/OP – Business/Office Park, I – Industrial, MU-N – Mixed Use-Neighborhood, PF – Public Facilities/Institutional, P – Public Park, and OS – Open Space. According to the DOC's Williamson Act Map and as depicted in Figure OS-3, Williamson Act Preserves, in the City's GP 2025 Open Space and Conservation Element, there are no Williamson Act contracts on the project site. Since the project is not an agricultural land use and is not under a Williamson Act contract, no impacts to an agricultural use or Williamson Act contract would occur. As such, no impacts will result either directly, indirectly, or cumulatively.				
c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in California Public Resources Code Section 12220(g)), timberland (as defined by California Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
4.2.2c. Response (Sources: California Public Resources Code 12220(g) and 4526; California Government Code 51104(g); City of Riverside Zoning Map): The City of Riverside has no forest land that can support 10% native tree cover, nor does it have any timberland. The project area is zoned Residential R-1-7000, R-3-3000, R-3-2500 and R-3-1500; Commercial/Industrial Zones O, CR, CG, BMP, and I; Downtown Specific Plans DSP-AS, DSP-HC, DSP-JC, DSP-MSG, DSP-NC, DSP-NMS, DSP-PPO, DSP-RC, and DSP-RES; and Other Zones (PF). The proposed replacement of existing historic light standards with historically appropriate light standards would not result in the rezoning of property intended for forest land. Therefore, no impacts will occur from this project on forest land, either directly, indirectly, or cumulatively.				
d. Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.2d. Response (Source: California Public Resources Code 12220(g); City of Riverside 2012a, Zoning Map): Refer to Response 4.2.2c. The project site is fully developed and is not considered forest land. Therefore, implementation of the proposed project would not result in the loss of forest land or conversion of forest land to non-forest use. No impacts will occur from the project either directly, indirectly, or cumulatively.				
e. Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.2e. Response (Sources: DOC 2010; City of Riverside 2012a, Open Space and Conservation Element, Figure OS-2 – Agricultural Suitability; California Public Resources Code 12220(g)): Please refer to Responses 4.2.2a, 4.2.2c, and 4.2.2d. Implementation of the proposed project would be within a fully developed area. The subject site is designated “Urban and Built-Up Land” by the DOC Farmland Mapping and Monitoring Program (DOC 2010) and as depicted in Figure OS-2 of the City’s GP 2025 (City of Riverside 2012a). No forest land areas, as defined in California Public Resources Code 12220(g), are located within or adjacent to the project site. Therefore, changes to the existing environment that could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use would not occur. No impacts will result from the project, either directly, indirectly, or cumulatively.				
4.2.3 Air Quality – Would the project:				
Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.				
a. Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.3a. Response (Sources: SCAQMD 2012; City of Riverside 2007a): The proposed replacement of historical light standards is consistent with Title 20 of the City’s Municipal Code, the Secretary of Interior’s Standards, and the GP 2025 Program “Typical Growth Scenario.” The luminaires of all of the 1,237 standards within the project area would be replaced with an acrylic Acorn style standard, which would include an internal LED bulb. Replacement of the 100-watt high pressure sodium (HPS) bulb in the existing standard with the proposed 23-watt equivalent LED bulb would result in an approximately 75% decrease in energy use for this light standard. Lower watt LED luminaires are currently being developed. If such bulbs are commercially available at the time construction of the proposed project in Areas 3–5B commences, and it meets the City standards, it may be used. It will not affect the proposed street light locations. The South Coast Air Basin (SCAB) Air Quality Management Plan (AQMP), prepared by South Coast Air Quality Management District (SCAQMD), sets forth a comprehensive program to lead the SCAB into compliance with federal and state air quality standards. The City is located within the Riverside County subregion of the SCAB projections.				

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>The City's GP 2025 FPEIR determined that implementation of the City's GP 2025 would generally meet forecasts for air quality standard attainment and would be consistent with the 2012 AQMP. Because the proposed project is consistent with the air quality policies found in the City's GP 2025, the proposed project would not conflict with or obstruct implementation of the AQMP. Therefore, the project will have a less-than-significant impact on implementation of the AQMP, and no mitigation measures are required.</p>				
<p>b. Violate any air quality standard or contribute substantially to an existing or projected air quality violation?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.3b. Response (<i>Sources: CARB 2018; City of Riverside 2007c, Table 5.3-B; SCAQMD 2012 – AQMP</i>):</p> <p>The portion of the SCAB in which the City is located is designated as a nonattainment area for ozone (O₃), particulate matter with an aerodynamic diameter less than or equal to 10 microns in diameter (PM₁₀), and PM_{2.5} under state standards, and a nonattainment area for O₃, PM₁₀, and PM_{2.5} under federal standards.</p> <p>The project would not result in the violation of any ambient air quality standard or contribute substantially to an existing or projected air quality violation, because the project is proposed in a developed area and does not involve significant construction, grading, or earthmoving activities. The proposed project consists of the replacement of existing historic light standards and luminaires of similar heights within public rights-of-way. Therefore, the project will have a less-than-significant impact either directly, indirectly, or cumulatively on ambient air quality and/or existing air quality violations, and no mitigation measures are required.</p>				
<p>c. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.3c. Response (<i>Sources: City of Riverside 2007c, Table 5.3-B; SCAQMD 2012 – AQMP</i>):</p> <p>See response 4.2.3b. The City's GP 2025 FPEIR analyzed AQMP thresholds and indicated that future construction activities under the GP are projected to result in significant levels of oxides of nitrogen (NO_x) and reactive organic compounds or gases, both O₃ precursors, PM₁₀, PM_{2.5}, and carbon monoxide (CO). Although long-term emissions are expected to decrease by 2025, all criteria pollutants remain above the SCAQMD thresholds.</p> <p>Because the proposed project is consistent with the City's GP 2025, cumulative impacts associated with increases in criteria pollutants as a result of the project were previously evaluated as part of the cumulative analysis of buildout anticipated under the City's GP 2025 Program. As a result, the proposed project does not result in any new significant impacts related to land use that were previously evaluated and for which a statement of overriding considerations was adopted as part of the General Plan 2025 FPEIR. Replacement of lighting fixtures to be safer, more energy efficient, and more historically uniform would not result in cumulative air quality impacts. Therefore, cumulative air quality emissions impacts are less than significant, and no mitigation measures are required.</p>				
<p>d. Expose sensitive receptors to substantial pollutant concentrations?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.3d. Response (<i>Sources: City of Riverside 2007c, Table 5.3-B SCAQMD CEQA Regional Significance Thresholds; SCAQMD 2012 – AQMP</i>):</p> <p>Nearby sensitive receptors include neighboring residents, and public facilities and institutions, including nearby schools. Short-term impacts associated with construction from the City's GP 2025 typical buildout would result in increased air emissions from earthmoving and construction activities. Because the project is proposed on a previously developed site and does not involve substantial grading or earthmoving activities, the project would result in minimal pollutant emissions. Replacement of lighting fixtures to be safer, more energy efficient, and more</p>				

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
historically uniform would not result in substantial pollutant concentrations. The project would not expose sensitive receptors to substantial pollutant concentrations and would have a less-than-significant impact either directly, indirectly, or cumulatively, and no mitigation measures are required.				
e. Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.3e. Response (<i>Source: Proposed Project</i>)</p> <p>Odors are a form of air pollution that is most obvious to the general public. Odors can present significant problems for both the source and surrounding community. Although offensive odors seldom cause physical harm, they can be annoying and cause concern. Construction and operation of the project would not create objectionable odors affecting a substantial number of people.</p> <p>Land uses and industrial operations that are associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The project entails light replacement fixtures and would not result in the creation of a land use that is commonly associated with odors. Thus, the project will have no impact related to odor exposure, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
4.2.4 Biological Resources – Would the project:				
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.4a. Response (<i>Sources: City of Riverside 2012a, Figures OS-6 – Stephen's Kangaroo Rat Core Reserves and Other Habitat Conservation Plans, OS-7 – MSHCP Cores and Linkages, OS-8 – MSHCP Cell Areas; City of Riverside 2007c, Figures 5.4-2 – MSHCP Area Plans, 5.4-4 – MSHCP Criteria Cells and Subunit Areas, 5.4-6 – MSHCP Narrow Endemic Plan Species Survey Area, 5.4-7 – MSHCP Criteria Area Species Survey Area, and 5.4-8 – MSHCP Burrowing Owl Survey Area</i>):</p> <p>The proposed lighting replacements would be developed in existing right-of-way within urbanized areas. The City's GP 2025 and the Multiple Species Habitat Conservation Plan (MSHCP, County of Riverside 2003) identified no potential for the project area to include candidate, sensitive, or special-status species or suitable habitat for such species. Therefore, the project would have no impact on habitat or species identified by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.4b. Response (<i>Sources: City of Riverside 2012a, Figures OS-6 – Stephen's Kangaroo Rat Core Reserves and Other Habitat Conservation Plans, OS-7 – MSHCP Cores and Linkages, OS-8 – MSHCP Cell Areas; City of Riverside 2007c, Figures 5.4-2 – MSHCP Area Plans, 5.4-4 – MSHCP Criteria Cells and Subunit Areas, 5.4-6 – MSHCP Narrow Endemic Plan Species Survey Area, 5.4-7 – MSHCP Criteria Area Species Survey Area, and 5.4-8 – MSHCP Burrowing Owl Survey Area; and County of Riverside 2003, MSHCP Section 6.1.2</i>):</p> <p>As previously stated, the proposed lighting replacements would be developed in existing rights-of-way within urbanized areas. Although sensitive natural communities associated with the Santa Ana River bank and Mount</p>				

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>Rubidoux likely exist west of Areas 3 and 4, no riparian habitat or other sensitive natural community exists within the project boundaries. Considering the nature of the proposed project, it has been determined there would be no impact on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by California Department of Fish and Wildlife or U.S. Fish and Wildlife Service directly, indirectly, or cumulatively, and no mitigation measures and required.</p>				
<p>c. Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.4c. Response (<i>Source: Proposed Project</i>): The proposed project would occur within developed public rights-of-way within an urbanized area. No federally protected wetlands as defined by Section 404 of the Clean Water Act exist within the project area or vicinity. The project site does not contain any discernible drainage courses, inundated areas, wetland vegetation, or hydric soils, and thus does not include U.S. Army Corps of Engineers jurisdictional drainages or wetlands. The proposed project would have no impact to federally protected wetlands, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.4d. Response (<i>Sources: County of Riverside 2003 MSHCP; City of Riverside 2012a, Figure OS-7 – MSHCP Cores and Linkages</i>): The project site is within an urbanized area that does not serve as an established wildlife corridor or wildlife nursery. Furthermore, replacement and operation of the light standards in the project area would not interfere with wildlife movement or use of wildlife nursery sites. The proposed project would have no impact on wildlife movement, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.4e. Response (<i>Sources: County of Riverside 2003, MSHCP; City of Riverside 2007d, Title 16 of the City's Municipal Code – Section 16.72.040, Title 16 of the City's Municipal Code – Section 16.40.040; City of Riverside 2007e</i>): The City's GP 2025 includes policies to ensure that future development would not conflict with any local policies or ordinances protecting biological resources, including tree preservation policies. This project has been reviewed against these policies and found to be in compliance with the policies. For these reasons, the project will have a less-than-significant impact associated with conflicts with local biological resource protection policies or ordinances, directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.4f. Response (<i>Sources: County of Riverside 2003, MSHCP; City of Riverside 2012a, Figure OS-6 – Stephen's Kangaroo Rat Core Reserves and Other Habitat Conservation Plans</i>): The project is subject to compliance with the Western Riverside MSHCP because the City of Riverside is a Permittee to the MSHCP. The project site is not located in an area subject to Stephen's kangaroo rat core reserves. Although</p>				

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<p>Areas 3 and 4 of the proposed project are located immediately east of an MSHCP core area and cell area, the proposed replacement lighting areas are within existing rights-of-way and urbanized areas which do not support suitable habitat for sensitive species, core linkages, habitat blocks, or riparian or riverine resources that would be affected by the project. Additionally, the project site is not within a Narrow Endemic Plant Species Survey Area per Section 6.1.3 of the MSHCP, a Criteria Area Species Survey Area or Additional Species Survey Area per Section 6.3.2 of the MSHCP, or any other applicable conservation plan. Since no Conservation Areas are designated within the project site, compliance with Section 6.1.4, Urban–Wildlands Interface Guidelines, is not needed. As such, the project would result in a less-than-significant impact, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
4.2.5 Cultural Resources – Would the project:				
a. Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>4.2.5a. Response (<i>Sources: City of Riverside 2007c, GP 2025 FPEIR Table 5.5-A Historical Districts and Neighborhood Conservation Areas and Appendix D; City of Riverside 2007a, Title 20 of the Riverside Municipal Code</i>):</p> <p>The proposed project involves restoration, rehabilitation, alteration, and demolition of a historical resource as defined under Section 15064.5(a) of the CEQA Guidelines. Per the CEQA Guidelines, the majority of the site and structures affected by the project are considered to be historic resources as they are a part of designated Historic Districts or NCAs. The proposed project boundaries include 13 of the City's Existing and Historic Districts and NCAs (City of Riverside 2017). These Historic Districts and NCAs include portions of the Seventh Street, Evergreen Quarter, Mount Rubidoux, Mission Inn, Colony Heights, North Hill, Mile Square Northwest Potential, Palm Heights, Citrus Thematic Potential, Seventh Street East, and Heritage Square Historic Districts; as well as the Ninth Street Potential NCA, and St. Andrews Terraces NCA. Historic Districts and NCAs within the project boundary are outlined within Figure 3, Historic Districts within Project Boundary.</p> <p>The proposed light replacement is not considered to be a significant change to the features of the cultural landscape of these Historic Districts and NCAs because the original purpose of lighting the streets is being preserved through historically appropriate replacement fixtures. The proposed lighting fixtures would be consistent with Areas 1 and 2 of the Wood Streets Street Light Project. Visuals of proposed lighting fixtures and luminaires are documented in the project plans (Appendix A). The proposed number and spacing of streetlights is based on American National Standard Practice for Roadway Lighting ANSI/IESNA RP-8 (RP-8), the standard approved by the Riverside City Council in 1996. As advances in lumen output technology have been made since installation of the historic streetlights, RP-8 Standards reduce the number of streetlights needed per block to provide required lighting levels. In order to minimize loss of historic character, the project proposes to install the number of streetlights required per RP-8 Standards, plus two, per block. As the project site is made up of blocks of various length, there is not a common number of streetlights per block. Respacing of streetlights per block to meet RP-8 Standards is not anticipated to impact historic character as replica streetlights will be reinstalled within the landscaped parkway and layout will be a staggered pattern like historic installations. Further, both standard and post top luminaires that make up the proposed replica streetlights, were found to be historically appropriate replacements of the historic concrete Corsicans through the prior environmental approvals for Area 1 and Area 2 (City of Riverside 2012b, 2015). Should light fixture replacement activities require tree roots to be removed or trimmed in order to fit in the electrical conduit serving the new lights, which could impact mature neighborhood trees, mitigation measure MM-CUL-1 has been incorporated to ensure trees are replaced in the event the trees do not survive. As such, implementation of MM-CUL-1 would reduce impacts related to historical resources to a less-than-significant level.</p> <p>MM-CUL-1: In the event tree roots associated with City trees along parkways need to be removed or trimmed for the infrastructure installment needed to support the replacement light fixtures, the City's certified arborist shall be</p>				

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consulted to determine how and when the roots should be cut prior to any cutting or removal of roots and where the replacement tree should be planted. The replacement tree should be of the same kind or as determined historically acceptable by the City's arborist and City's Historic Preservation Officer or Qualified Designee.				
b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.5b. Response (<i>Source: City of Riverside 2007c, Figures 5.5-1 – Archaeological Sensitivity and 5.5-2 – Prehistoric Cultural Resources Sensitivity</i>):</p> <p>The majority of the project site (Areas 3, 4, 5B) is identified as having an unknown archaeological sensitivity according to the City's GP 2025 FPEIR Figure 5.5-1 while Area 5 is identified as having a medium prehistoric cultural resources sensitivity according to the City's GP 2025 FPEIR Figure 5.5-2 (City of Riverside 2007c). Areas classified as unknown are primarily those areas that were urbanized prior to the mid-1970s and may contain buried archaeological deposits dating to the City's prehistoric and historical periods (City of Riverside 2007c). The project site includes only areas that are already locally designated or have been found eligible for local designation as residential historic districts within the suburban built environment surrounding the City's downtown area. Thus, because the project site is already identified as several known cultural resources, a Cultural Resources study was not required by the City. The areas where physical work will be performed are located entirely within the previously disturbed public right-of-way, with the ground nearly entirely covered, and bordered by fully built residential development. These areas include only the roadbed, curb and gutter, driveways, and landscaped parkway, which includes turf, mature trees (in many areas up to 80-100 years old), streetlights, and utility vaults. Bare earth may be visible in small, scattered patches where turf once existed within a parkway and is now dormant. The proposed project includes only the replacement of existing streetlights and related electrical structures (i.e., vaults and conduit) within soils already fully disturbed by the same and similar activities (i.e., ground preparation and installation of roadbeds, curb and gutter, gas, water, and electric utility lines and vaults, driveways/sidewalks, and landscaping). Trenching would occur where replacement light standards are installed and for new or replacement electrical system equipment including cable, conduit, and some vaults. Work would extend approximately 2-3 feet below grade, which would contain activity to previously disturbed areas. Although not anticipated or predictable, unique existing conditions could require additional 6- to 12-inch depth in a handful of spots, still within this generally highly disturbed area. The proposed project constitutes follow-on/final phases of an on-going project, for which Area 1 (2012) and Area 2 (2015) were also located in similar residential historic districts. No unanticipated discoveries were found in the previous project areas. Due to the previously developed character of the project area, which includes existing installed streetlights and associated cabling, conduit, and vaults, there is minimal potential for the proposed minor ground-disturbing activities to result in archaeological impacts. However, due to the unknown/medium archaeological sensitivity of the project area, potential to encounter previously undiscovered significant archaeological resources during construction could still occur. As such, mitigation measure MM-CUL-2 would be implemented. Implementation of MM-CUL-2 would reduce impacts to less-than-significant, either directly, indirectly, or cumulatively, on archaeological resources pursuant to Section 15064.5 of the CEQA Guidelines.</p> <p>MM-CUL-2: In the event archaeological or paleontological resources are exposed during construction activities for the proposed project, all earth-disturbing work occurring in the vicinity (generally within 100 feet of the find) shall be temporarily diverted and a qualified professional archaeologist or paleontologist, meeting the Secretary of Interior's Professional Qualification Standards, shall be notified regarding the discovery. The archaeologist/paleontologist shall evaluate the significance of the find and determine whether or not additional study is warranted. If the discovery proves significant under CEQA (14 Code of California Regulations 15064.5(f); California Public Resources Code Section 21082) or Section 106 of the National Historic Preservation Act (36 Code of Federal Regulations 60.4), additional work such as preparation of an archaeological treatment plan, testing, or data recovery may be warranted.</p>				

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c. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.5c. Response (<i>Source: City of Riverside 2012a, Policy HP-1.3 and Policy HP-1.4</i>):</p> <p>As discussed above, the proposed project is located only within areas that are locally designated or have been found eligible for local designation as residential historic districts within the suburban built environment surrounding the City's downtown area. Thus, because the project site is already identified as several known cultural resources, a Cultural Resources study was not required by the City. The areas where physical work will be performed are entirely within the previously disturbed public right-of-way, and the ground nearly entirely covered. These areas include only the roadbed, curb and gutter, driveways, and landscaped parkway, which includes turf, mature trees (in many areas up to 80-100 years old), streetlights, and utility vaults. These work areas are bordered by fully built residential development. Bare earth may be visible in small, scattered patches where turf once existed within a parkway and is now dormant. The proposed project includes only the replacement of existing streetlights and related electrical structures (i.e., vaults and conduit) within soils already fully disturbed by the same and similar activity (ground preparation and installation of roadbeds, curb and gutter, gas, water, and electric utility lines and vaults, driveways/sidewalks, and landscaping). Trenching would occur where replacement light standards are installed and for new or replacement electrical system equipment including cable, conduit, and some vaults. Work would extend approximately 2-3 feet below grade, which would contain activity to previously disturbed areas. Although not anticipated or predictable, unique existing conditions could require additional 6- to 12-inch depth in a handful of spots, still within this generally highly disturbed area. The proposed project constitutes follow-on/final phases of an on-going project, for which Area 1 (2012) and Area 2 (2015) were also located in similar residential historic districts. No unanticipated discoveries were found in the previous project areas. Additionally, no known paleontological resources have been found on site during any past development. As such, the proposed project does not anticipate destroying any paleontological resource or unique geologic feature, given the disturbed nature of the project area. However, because potential to encounter previously undiscovered significant paleontological resources during construction could still occur, mitigation measure MM-CUL-2, outlined above, would be implemented. With implementation of MM-CUL-2, it is expected that the project will have a less-than-significant impact, either directly, indirectly, or cumulatively, on paleontological resources.</p>				
d. Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.5d. Response (<i>Sources: City of Riverside 2007c, Figures 5.5-1 – Archaeological Sensitivity and 5.5-2 – Prehistoric Cultural Resources Sensitivity; California Public Resources Code 5097.98; California Health and Safety Code, Sections 7050.5, 7051, 5052, and 7054</i>):</p> <p>The site is not known to be an informal/formal cemetery. The project area is fully developed with existing residential neighborhoods, commercial and industrial areas, downtown area, and public facilities. Due to past excavation and fills on the project site, it is highly unlikely that human remains are present. In the unlikely event that human remains are discovered, state and local laws require that the county coroner be notified. California Public Resources Code 5097.8 addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project; and establishes the Native American Heritage Commission to resolve disputes regarding the disposition of such remains. However, because construction of the proposed project could potentially result in inadvertent encounter of human remains, mitigation measure MM-CUL-3 has been incorporated into the project to ensure that potential impacts are less than significant, by providing standard procedures in the event that human remains are encountered during project construction. Further, the proposed project would be required to comply with California Public Resources Code 5097.98 should any unknown human remains be discovered during site disturbance. Additionally, Sections 7050.5, 7051, 5052, and 7054 of the Health and Safety Code collectively address the illegality of interference with human burial remains, as well as the disposition of Native America burials in archaeological sites. The law protects such remains from disturbance, vandalism, or inadvertent destruction, and establishes procedures to be implemented if Native American skeletal remains are</p>				

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>discovered during construction of a project, including the treatment of remains prior to, during, and after evaluation, and reburial procedures. As such, with implementation of MM-CUL-3, the project would have a less-than-significant impact, either directly, indirectly, or cumulatively on human remains, and no mitigation measures are required.</p> <p>MM-CUL-3: If human remains are discovered, work shall halt in that area and no soil shall be exported off-site until a determination can be made regarding the provenance of the human remains; and the following procedures as set forth in CEQA Section 15064.5(e), the California Public Resources Code (Sec. 5097.98) and State Health and Safety Code (Sec. 7050.5) shall be undertaken:</p> <p>A qualified professional archaeologist shall be notified of the discovery. The archaeologist shall then notify the Medical Examiner, either in person or via telephone. Work shall be directed away from the location of the discovery and any nearby area reasonably suspected to overlay adjacent human remains until a determination can be made by the Medical Examiner in consultation with the qualified archeologist, concerning the provenience of the remains. The Medical Examiner, in consultation with the archeologist, will determine the need for a field examination to determine the provenience. If a field examination is not warranted, the Medical Examiner will determine with input from the archaeologist, if the remains are or are most likely to be of Native American origin. If Human Remains are determined to be Native American, the Medical Examiner will notify the Native American Heritage Commission (NAHC) within 24 hours. By law, only the Medical Examiner can make this call. The most likely descendant (MLD) will contact the archaeologist within 24 hours or sooner after the Medical Examiner has completed coordination, to begin the consultation process in accordance with CEQA Section 15064.5(e), the California Public Resources and Health & Safety Codes. The MLD will have 48 hours to make recommendations to the property owner or representative, for the treatment or disposition with proper dignity, of the human remains and associated grave goods. Disposition of Native American Human Remains will be determined between the MLD and the City, and, if:</p> <ol style="list-style-type: none"> A. The NAHC is unable to identify the MLD, or the MLD failed to make a recommendation within 48 hours after being notified by the Commission, or; B. The landowner or authorized representative rejects the recommendation of the MLD and mediation in accordance with PRC 5097.94 (k) by the NAHC fails to provide measures acceptable to the landowner, THEN C. To protect these sites, the landowner shall do one or more of the following: <ol style="list-style-type: none"> (1) Record the site with the NAHC; (2) Record an open space or conservation easement; or (3) Record a document with the County. D. Upon the discovery of multiple Native American human remains during a ground disturbing land development activity, the landowner may agree that additional conferral with descendants is necessary to consider culturally appropriate treatment of multiple Native American human remains. Culturally appropriate treatment of such a discovery may be ascertained from review of the site utilizing cultural and archaeological standards. Where the parties are unable to agree on the appropriate treatment measures the human remains and items associated and buried with Native American human remains shall be reinterred with appropriate dignity, pursuant to Section 5.c., above. <p>If Human Remains are not Native American, the archeologist shall contact the Medical Examiner and notify them of the historic era context of the burial. The Medical Examiner will determine the appropriate course of action with the archeologist and City staff (PRC 5097.98).</p>				

Issues (and Supporting Information Sources)		Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
4.2.6 Geology and Soils – Would the project:					
a. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:					
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist–Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.6a.i. Response (Sources: DOC 2007; City of Riverside 2007c, Figure 5.6-2 – Faults and Fault Zones; City of Riverside 2012a, Figure PS-1 – Regional Fault Zones): The project site is not within an Alquist–Priolo Earthquake Fault Zone (DOC 2007). While no known faults traverse the City, several faults in the region have the potential to produce seismic impacts within the City and its sphere of influence. Three significant faults pass within 20 miles of the City, including the San Andreas fault, located approximately 10 miles from downtown Riverside; the San Jacinto fault, located approximately 7 miles from downtown Riverside; and the Elsinore fault, located approximately 13 miles from downtown Riverside. The site is not within a fault hazard zone, and the potential for fault rupture is low. In the event of rupture, installation of new light standards within the public rights-of-way would not be likely to expose people or structures to damage. The proposed project would be required to meet California Building Code (CBC) standards, which would ensure the project would meet current seismic safety regulations. Therefore, the project will have a less-than-significant impact, either directly, indirectly, or cumulatively, and no mitigation measures are required.					
ii. Strong seismic ground shaking?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.6a.ii. Response (Source: City of Riverside 2007c, Figure 5.6-2 – Faults and Fault Zones): According to the City's GP 2025 FPEIR, Appendix E, "the effect of an earthquake originating on any given fault will depend primarily upon its distance from the project site and the size earthquake (amount of energy release) that the fault is likely to generate. In general, the more distant the fault is and the smaller the potential earthquake, the less effect" (City of Riverside 2007c). Area 5 is located approximately 7 miles from the San Jacinto Fault Zone and approximately 13 miles from the Elsinore Fault Zone, and Areas 3, 4, and 5B are located approximately 5 miles from the San Jacinto Fault and approximately 15 miles from the Elsinore Fault Zone. Because the project site is in proximity to known active or potentially active faults, the site could be subjected to significant ground shaking caused by earthquakes. Proper engineering design and installation in conformance with CBC standards would ensure that seismic ground shaking will result in less-than-significant impacts either directly, indirectly, or cumulatively. No mitigation measures are required.					
iii. Seismic-related ground failure, including liquefaction?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.6a.iii. Response (Sources: City of Riverside 2007c, Figures 5.6-2 – Faults and Fault Zones and 5.6-3 – Generalized Liquefaction Zones; City of Riverside 2012a, Figure PS-1 – Regional Fault Zones, Figure PS-2 – Liquefaction Zones, and Public Safety Element): According to Figure PS-1 of the City's GP 2025, the project site is not located on or near an earthquake fault or fault zone (City of Riverside 2012a). The San Jacinto Fault, the nearest known earthquake fault, is located approximately 7 miles from Area 5 and approximately 5 miles from Areas 3, 4, and 5B. Figure PS-2 of the City's GP 2025 depicts Area 5 within a low liquefaction zone, and Areas 3, 4, and 5B range between low to very high liquefaction zones (City of Riverside 2012a). However, impacts related to ground failure such as from liquefaction are considered less than significant due to the fact that the new lighting standards being proposed by the project would all be designed to CBC standards to anticipate impacts associated with seismic-related ground failure. No mitigation measures are required.					
iv. Landslides?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>4.2.6a.iv. Response (Sources: City of Riverside 2007c, Geology and Soils and Figure 5.6-1 – Areas Underlain by Steep Slopes; City of Riverside 2012a, Public Safety Element):</p> <p>The Geology and Soils section of the City's GP 2025 FPEIR states that "areas of high susceptibility to seismically induced landslides and rockfalls correspond to steep slopes in excess of 30 percent" (City of Riverside 2007c). Figure 5.6-1 of the City's GP 2025 FPEIR indicates that the majority of the project area is located on land identified as having a 0% to 10% slope, which is the lowest of the four potential categories. However, the western boundaries of Areas 3 and 4, near the base of Mount Rubidoux, include areas of 10%–15%, 15%–30%, and 30%+ slopes (City of Riverside 2007c). Because majority of the project site is relatively level under existing conditions and the proposed project would not change ground elevations at the project site, the proposed project would be unlikely to be susceptible to landslides. Therefore, the project would have a less-than-significant impact, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>b. Result in substantial soil erosion or the loss of topsoil?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.6b. Response (Source: City of Riverside 2007c, Figure 5.6-1 – Areas Underlain by Steep Slopes):</p> <p>According to Figure 5.6-1 of the City's GP 2025 FPEIR, the project site is located in a region identified as having a 0% to 10% slope, the lowest category of slope identified on that figure (City of Riverside 2007c). Construction activities such as minor excavation and grading may have the potential to cause soil erosion or the loss of topsoil; however, the City implements best management practices under the special provisions on every contract during construction, which would include, but would not be limited to, gravel/sand bags to prevent off-site sedimentation, dust abatement measures to minimize fugitive dust, removal of soil tracked onto paved surfaces, and avoiding construction activities during periods of inclement weather. The project would not involve substantial grading or earthmoving activities that could result in erosion, nor would operation of the proposed light standards result in erosion or loss of topsoil. Limited trenching for electrical lines would be required as part of the proposed project. Therefore, the project will have a less-than-significant impact, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.6c. Response (Sources: City of Riverside 2012a, Figures PS-1 – Regional Fault Zones, PS-2 – Liquefaction Zones, and PS-3 – Soils with High Shrink-Swell Potential; City of Riverside 2007c, Figure 5.6-1 – Areas Underlain by Steep Slope):</p> <p>According to Figure PS-1 of the City's GP 2025, the nearest fault zone is located approximately 7 miles from Area 5 and approximately 5 miles from Areas 3, 4, and 5B. Figure PS-2 of the City's GP 2025 indicates that the project site is located within low and low-to-very-high liquefaction zones. Figure PS-3 of GP 2025 indicates that the project site is not located in an area with soils identified as having a high shrink-swell potential (City of Riverside 2012a). The project site is not located in an area with steep slopes that could result in a landslide, as indicated on Figure 5.6-1 of the City's GP 2025 FPEIR (City of Riverside 2007c). The project would not result in soil instability, as installation and operation of the proposed light replacement standards would not require significant grading or earthmoving activities. Limited trenching would be required for electrical lines; however, trenching would be minor and would not cause soil instability. Therefore, the project site is not considered to be susceptible or located on a site that is unstable. The project would have a less-than-significant impact, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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<p>4.2.6d. Response (<i>Sources: City of Riverside 2012a, Figure PS-3 – Soils with High Shrink-Swell Potential; City of Riverside 2007c</i>):</p> <p>Soils containing high clay content often exhibit a relatively high potential to expand when saturated and to contract when dried out. Figure PS-3 of the City's GP 2025 indicates that the project site is not located in an area with soils that have a high shrink-swell potential, thereby substantially reducing the potential for adverse impacts related to being located on expansive soils (City of Riverside 2012a). As such, the project would have a less-than-significant impact, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.6e. Response (<i>Source: Proposed Project</i>)</p> <p>The project consists of the installation of light replacement fixtures and would not generate wastewater requiring disposal. Therefore, the project would have no impact, either directly, indirectly, or cumulatively, on septic tanks or alternative wastewater disposal systems. No mitigation measures are required.</p>				
4.2.7 Greenhouse Gas Emissions – Would the project:				
<p>a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.7a. Response (<i>Source: Proposed Project</i>):</p> <p>The project proposes to replace the luminaires of all but 7 (monumental style) of the 1,225 existing light standards. The replacement luminaires would include internal LED light bulbs. Replacements of the street light standards in the project area are currently outfitted with 100-watt HPS bulbs. Replacement of these 100-watt HPS bulbs with a 23-watt LED bulb would reduce energy use by approximately 75% per light standard. Lower watt LED luminaires are currently being developed. If such bulbs are commercially available at the time construction of the proposed project in Areas 3–5B commences, and it meets the City standards, it may be used. It will not affect the proposed street light locations.</p> <p>The proposed project would not result in a net increase in greenhouse gas (GHG) emissions due to the minimal need for GHG-producing equipment during installation, replacement of new conduit/cables, and the installation of new light standards with energy efficient LED bulbs. The project would also comply with the City's General Plan policies and CBC requirements designed to reduce GHG emissions. Because the project would not result in a net increase in GHG emissions, it would not interfere with GHG emissions reductions measures set forth in Assembly Bill 32 and Executive Order S-3-05. Therefore, the project would have a less-than-significant impact on GHG emissions, and no mitigation measures are required.</p>				
<p>b. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.7b. Response (<i>Source: City of Riverside 2007c, Section 5.3</i>):</p> <p>See Response 4.2.7a. SCAQMD supports state, federal, and international policies to reduce levels of ozone-depleting gases through its Global Warming Policy and rules. The SCAQMD has established an interim GHG threshold to promote compliance with these policies. As discussed in Response 4.2.7a, the project would not generate a net increase in GHG emissions as the proposed LED bulbs would result in energy reduction and would comply with the City's GP policies and CBC regulations designed to reduce GHG emissions. Therefore, the project would have no impact on compliance with policies designed to reduce GHG emissions. No mitigation measures are required.</p>				

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4.2.8	Hazards and Hazardous Emissions – Would the project:				
a.	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.8a.	Response (Source: <i>Proposed Project</i>): The proposed project, which includes the replacement and operation of historic light standards, would require minimal transport, use, or disposal of hazardous materials. The old light fixtures would be transported by the contractor, once RPU deems them as removed and abandoned per Underground Construction Standards (UGS) specifications standard 2-6. The street light standard becomes property of the contractor and shall be removed from the site. Further, future maintenance of LED lights would require minimal transport, use, or disposal of hazardous materials. However, with proper handling during all future maintenance, in accordance with federal, state, and local regulations, the project would not create a significant direct, indirect, or cumulative hazard to the public through the transport, use, or disposal of hazardous materials. Impacts would be less than significant. No mitigation measures are required.				
b.	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.8b.	Response (Source: <i>City of Riverside 2012a, Public Safety Element</i>): Please refer to Response 4.2.8a. The proposed project would require minimal use of hazardous materials, in terms of disposal of existing lights and maintenance of LED lights, and would comply with the policies set forth in the Public Safety Element of the City's GP 2025 related to hazardous materials as well as federal, state, and local regulations. The project would have a less than significant impact, either directly, indirectly, or cumulatively, on accidental release of hazardous materials. No mitigation measures are required.				
c.	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.8c.	Response (Source: <i>City of Riverside 2007c, Section 5.7, Figure 5.13-2 – Riverside Unified School District Boundaries, Figure 5.13-3 – Alvord Unified School District Boundaries, Table 5.13-D, Table 5.13-E, Figure 5.13-4 – Other School District Boundaries</i>): Riverside County Community School, Longfellow Elementary School, and Bryant Elementary School are located within the Areas 3, 4, and 5B boundaries. There are no schools within 0.25 miles of Area 5. The project is the replacement of existing historic light standards with historically appropriate light standards. The project would require minimal use of hazardous materials or create hazardous emissions, in terms of disposal of existing lights and maintenance of LED lights. However, with proper handling during all disposal and future maintenance activities, in accordance with federal, state, and local regulations, the project would not create a risk to area schools. Therefore, the project would have a less than significant impact, directly, indirectly, or cumulatively associated with hazardous materials use near schools. No mitigation measures are required.				
d.	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.8d.	Response (Sources: <i>DTSC 2007; City of Riverside 2007c, Figures 5.7-1 – Hazardous Waste Sites, 5.7-2 – Airport Safety and Compatibility Zones, 5.7-3 – Fire Hazard Areas, and Tables 5.7-A, 5.7-B, and 5.7-C</i>): Government Code Section 65962.5 combines several regulatory lists of sites that may pose a hazard related to hazardous				

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
materials or substances. According to Figure PS-5 of the City of Riverside 2025 General Plan, potential hazardous waste sites listed under CERCLIS, DTSC EnviroStor, and Superfund sites are located immediately adjacent to Area 5B. However, due to the nature of the proposed project as a replacement of existing historic light standards in existing rights-of-way, the project would not create a hazard to the public or the environment. As such, the project would result in less-than-significant impacts, either directly, indirectly, or cumulatively, and no mitigation measures are required.				
e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.8e. Response (Source: City of Riverside 2007c, Figure 5.7-2 – Airport Safety and Compatibility Zones): Part of the project site is located within Compatibility Zone “Other Airport Environs” of the Riverside Municipal Airport. Only uses that would be hazardous to flight (such as tall structures) are prohibited within this zone. There would be no tall structures implemented as part of the proposed project that would be hazardous to flights. The project would not generate any additional residents or employees in the project area. Therefore, due to the nature of the proposed project, there would be no impact, either directly, indirectly, or cumulatively, on safety hazards associated with airport uses. No mitigation measures are required.				
f. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.8f. Response (Source: City of Riverside 2012a, Figure PS-6 – Airport Land Use Compatibility Zones and Influence Areas): There are no private airstrips in the project vicinity; therefore, the proposed project would not result in a safety hazard for people residing or working in the project area. Thus, the project would have no impact, either directly, indirectly, or cumulatively, and no mitigation measures are required.				
g. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.8g. Response (Sources: City of Riverside 2007c, Chapter 5.7; City of Riverside 2011) The proposed project shall comply with the City’s Emergency Operations Plan . Replacement and operation of historic light standards would result in minimal physical alterations to the project site, and as such would have no impact on the implementation of an adopted emergency plan.				
h. Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.8h. Response (Source: City of Riverside 2007c, Figure 5.7-3 – Fire Hazard Areas): According to Figure 5.7-3 of the City’s GP 2025 FPEIR , the project site is not within a fire hazard area. However, fire hazards area “Hills and Canyon” are mapped at the western boundary of Areas 3 and 4, near the base of Mount Rubidoux. Due to the nature of the proposed project, and lighting replacements occurring within a developed area, the risk of a large, high-intensity fire impacting the site is very low. Therefore, the proposed project would have a less-than-significant impact, either directly, indirectly, or cumulatively, and no mitigation measures are required.				
4.2.9 Hydrology and Water Quality – Would the project:				
a. Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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<p>4.2.9a. Response (<i>Source: City of Riverside 2007c, Table 5.8-A</i>):</p> <p>The proposed project is located within the Santa Ana River Watershed. The project would result in minimal physical alterations to the project site (including earthmoving activities, grading, or paving) and would not involve any operational components that would affect water quality or be subject to water quality standards or waste discharge requirements. The project would have no impact associated with violation of water quality standards or waste discharge requirements, and no mitigation measures are required.</p>				
<p>b. Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.9b. Response (<i>Sources: City of Riverside 2012a, Tables PF-1, PF-2, PF-3, RPU Map of Water Supply Basins; RPU 2011, RPU UWMP; WMWD 2011, WMWD UWMP</i>):</p> <p>The project site is located within the Riverside South Supply Basin. The project would not alter the amount of impervious groundcover or otherwise cause physical alterations to the project site that could potentially deplete groundwater supplies or interfere with groundwater recharge. The project would have a less-than-significant impact, either directly, indirectly, or cumulatively, on groundwater supply, and no mitigation measures are required.</p>				
<p>c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on or off site?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.9c. Response (<i>Source: Proposed Project</i>):</p> <p>The proposed project would result in minimal physical alterations to the project site (including earthmoving activities, grading, or paving), which is currently fully improved and developed. Replacement and operation of historic light standards in this setting would have a less-than-significant impact on existing drainage patterns and would not result in siltation or erosion on or off site. No mitigation measures are required.</p>				
<p>d. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.9d. Response (<i>Source: Proposed Project</i>):</p> <p>See response 4.2.9c.</p>				
<p>e. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.9e. Response (<i>Source: Proposed Project</i>):</p> <p>The proposed replacement and operation of historic light standards would result in minimal physical alterations to the fully developed project site. The project would not create or contribute runoff water. Therefore, the project would have a less-than-significant impact on runoff water. No mitigation measures are required.</p>				
<p>f. Otherwise substantially degrade water quality?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
4.2.9f. Response (Source: Proposed Project): There are no other sources or characteristics of the project that would substantially degrade water quality. Impacts are considered to be less than significant, and no mitigation measures are required.				
g. Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.9g. Response (Source: City of Riverside 2007c, Figure 5.8-2 – Flood Hazard Areas): The project site is not located within a 100-year flood hazard area. The project does not propose the development of housing. Therefore, no impact will result, either directly, indirectly, or cumulatively, and no mitigation measures are required.				
h. Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.9h. Response (Source: City of Riverside 2007c, Figure 5.8-2 – Flood Hazard Areas): The project site is not located within a 100-year flood hazard area. Therefore, the proposed project would not place structures within a 100-year flood hazard area. No impact will result either directly, indirectly, or cumulatively, and no mitigation measures are required.				
i. Expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.9i. Response (Source: City of Riverside 2007c, Figure 5.8-2 – Flood Hazard Areas): According to the City's GP 2025 FPEIR Figure 5.8-2, Flood Hazard Areas, the project site is not within a flood zone. However, portions of Areas 3, 4, and 5B are subject to the dam inundation area of Sycamore Canyon Dam, and Area 5 is subject to the dam inundation area of Alessandro Dam. It has been determined that since the project would not place a structure within a flood hazard area or dam inundation area that would expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of a levee or dam, no impact either directly, indirectly, or cumulatively will occur, and no mitigation measures are required.				
j. Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.9j. Response (Source: City of Riverside 2007c, Chapter 5.8, Figure 5.8-2 – Flood Hazard Areas): A seiche is a to-and-fro vibration of an enclosed water body that is similar to the slopping of water in a basin. Seiches are often triggered by earthquakes. Tsunamis are tidal waves that occur in coastal areas. Area 4 is located immediately south of Lake Evans, which could be subject to seiche. However, the project area is not located downslope of any large bodies of water that could adversely affect the site in the event of earthquake-induced seiches. The project site is not located near any coastal areas, which are subject to tsunamis. The project site is located approximately 40 miles inland from the Pacific Ocean, and the risk of a tsunami affecting the project area is low. The project site is located near the Santa Ana River, which is not subject to significant mudflows since there are no slopes or mountainous areas that would contribute to mudflow risks. Given the project's location and because there are no features nearby that would pose a threat from seiche, tsunami, or mudflow, this impact is considered less than significant directly, indirectly, or cumulatively, and no mitigation measures are required.				
4.2.10 Land Use and Planning – Would the project:				
a. Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.10a. Response (Source: Proposed Project): The proposed project consists of the replacement of existing historic light standards with historically appropriate light standards and replica replacement luminaires in a fully developed and improved neighborhood. The project does not include the construction of structures or the subdivision of land. As such, the project would have no impact directly, indirectly, or cumulatively regarding physically dividing an established community. No mitigation measures are required.				

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b. Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.10b. Response (Sources: City of Riverside 2012a, Zoning Map and Land Use Policy Map; City of Riverside 2007c; City of Riverside 2007a): The site is designated MDR - Medium Density Residential; MHDR – Medium High Density Residential; DSP – Downtown Specific Plan; O – Office; B/OP – Business/Office Park; I – Industrial, MU-N – Mixed Use-Neighborhood; PF - Public Facilities/Institutional; P – Public Park; and OS – Open Space. The project site is zoned Residential Zones R-1-7000, R-3-3000, R-3-2500, and R-3-1500; Commercial/Industrial Zones O, CR, CG, BMP, and I; Downtown Specific Plans DSP-AS, DSP-HC, DSP-JC, DSP-MSG, DSP-NC, DSP-NMS, DSP-PPO, DSP-RC, and DSP-RES; and Other Zones (PF). The project consists of the replacement of existing historic light standards with historically appropriate light standards and replica replacement luminaries within the public rights-of-way. The project would be consistent with the City's GP 2025, Title 19, and Title 20 of the Riverside Municipal Code for Historic Districts and Neighborhood Conservation Areas. As such, the project would have a less-than-significant impact, either directly, indirectly, or cumulatively, on applicable land use plans, policies, and regulations, and no mitigation measures are required.				
c. Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.10c. Response (Source: County of Riverside 2003 MSHCP): The project is subject to compliance with the Western Riverside MSHCP, because the City of Riverside is a Permittee to the MSHCP. Although Areas 3 and 4 are located in an area immediately east of Cell Criteria under the MSHCP, the project site is not subject to conservation requirements toward building out the MSHCP Reserve. The project site does not support any riparian or riverine resources that would be affected by the project and is therefore compliant with Section 6.1.2 of the MSHCP. Additionally, the project site is not within a Narrow Endemic Plant Species Survey Area per Section 6.1.3 of the MSHCP, a Criteria Area Species Survey Area or Additional Species Survey Area per Section 6.3.2 of the MSHCP, or any other applicable conservation plan. Since no Conservation Areas would be impacted as a result of the proposed project, impacts would be less than significant, and no mitigation measures are required.				
4.2.11 Mineral Resources – Would the project:				
a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.11a. Response (Source: City of Riverside 2012a, Figure OS-1 – Mineral Resources): Area 5 of the proposed project lies within Mineral Resource Zone 3 (MRZ-3), and Areas 3, 4, and 5B are within areas designated MRZ-2 and MRZ-3 as depicted on Figure OS-1 of the City's GP 2025 (City of Riverside 2012a). MRZ-2 indicates areas underlain by mineral deposits where geologic data show that significant inferred, measured, or indicated resources are present, and MRZ-3 indicates area containing known or inferred mineral occurrences of undetermined mineral resources significance. However, the project site has been previously disturbed and is developed with existing sidewalks and public rights-of-way that serve the residential neighborhoods. The project does not involve extraction of mineral resources or grading activity. There is no historical use of the project areas or surrounding area for mineral extraction purposes. Given the nature of the proposed project, and that the site is currently developed, the proposed project would not result in the loss of a known mineral resource. As such, the project would have a less-than-significant impact on mineral resources directly, indirectly, or cumulatively, and no mitigation measures are required.				
b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>4.2.11b. Response (Sources: <i>City of Riverside 2012a, Figure OS-1 – Mineral Resources; City of Riverside 2007c</i>):</p> <p>As previously described, the proposed project lies within both MRZ-2 and MRZ-3 areas as depicted on Figure OS-1 of the City's GP 2025 (City of Riverside 2012a). The project site has been previously disturbed and is developed with existing sidewalks and public rights-of-way that serve the existing residential neighborhoods. The City's GP 2025 FPEIR determined that there are no specific areas within the City or Sphere of Influence Area, including the project site, which has locally important mineral resource recovery sites (City of Riverside 2007c). Therefore, implementation of the project would not significantly preclude the ability to extract state-designated resources. Therefore, there would be no impact on the availability of mineral resource sites, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
4.2.12 Noise – Would the project result in:				
a. Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.12a. Response (Sources: <i>City of Riverside 2007f; City of Riverside 2007c, Figure 5.11-6 – 2025 Roadway Noise, and Table 5.11-1</i>):</p> <p>Noise levels are regulated by the City's Municipal Code, Title 7 (City of Riverside 2007f). The proposed project does not involve activities or uses during installation or operation that would substantially increase ambient noise levels. The installation process could generate short-term, temporary noise. However, noise associated with the installation of the proposed light standards and luminaries would be subject to the standards set forth in the City's Municipal Code Section 7.35.010, which limits construction noise to 7:00 a.m. to 7:00 p.m. on weekdays and 8:00 a.m. to 5:00 p.m. on Saturdays. Therefore, the project would have a less-than-significant impact directly, indirectly, or cumulatively on exposure of persons to noise levels or generation of noise levels in excess of applicable standards. No mitigation measures are required.</p>				
b. Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.12b. Response (Source: <i>City of Riverside 2007c, Table 5.11-G</i>):</p> <p>The proposed project would not involve substantial earthwork that would result in substantial groundborne vibration or noise levels. The project would involve the temporary and intermittent use of construction equipment for various construction activities. There would be no operational or maintenance activities that would include vibration. The project would not require the use of blasting that would cause excessive groundborne vibration or noise. The project would utilize standard construction equipment such as a small crane, which is not typically a source of excessive groundborne vibration. Therefore, the project would have a less-than-significant impact directly, indirectly, or cumulatively related to groundborne vibration, and no mitigation measures are required.</p>				
c. A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.12c. Response (Sources: <i>City of Riverside 2007f; City of Riverside 2007c, Section 5.11</i>):</p> <p>The project consists of the replacement of existing light standards with historically appropriate light standards. Thus, the proposed project does not involve uses or activities that would result in a substantial permanent increase ambient noise levels in the project vicinity above levels existing without the project. As such, the project would have a less-than-significant impact directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
d. A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>4.2.12d. Response (Source: City of Riverside 2007c, Table 5.11-J; City of Riverside 2007f):</p> <p>The primary source of temporary or periodic noise associated with the proposed project would be from installation activity and maintenance work. Both the General Plan 2025 and the Municipal Code Title 7 (Noise Code) limit construction activities to specific times and days of the week. Noise associated with the installation of the proposed light standards and luminaries would be subject to the standards set forth in the City's Municipal Code Section 7.35.010, which limits construction noise to 7:00 a.m. to 7:00 p.m. on weekdays and 8:00 a.m. to 5:00 p.m. on Saturdays. Considering the short-term nature of installation and the provisions of the Noise Code, the temporary and periodic increase in noise levels due to installation which may result from the project are considered less than significant. No mitigation measures are required.</p>				
<p>e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.12e. Response (Source: City of Riverside 2007c, Figures N-8 – Riverside and Flabob Airport Noise Contours, N-9 – March ARB Noise Contour, N-10 – Noise/Land Use Noise Compatibility Criteria):</p> <p>See discussion under Response 4.2.8e. Part of the project site is located within Compatibility Zone “Other Airport Environs” of the Riverside Municipal Airport. Only uses that would be hazardous to flight (such as tall structures) are prohibited within this zone. There are no regulations related to noise-sensitivity or adverse noise impacts associated with this compatibility zone. The project would not add residents or employees to the project area. For these reasons, the project would have a less-than-significant impact directly, indirectly, or cumulatively related to airport noise exposure, and no mitigation measures are required.</p>				
<p>f. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.12f. Response (Source: City of Riverside 2012a, Figure 5.7-2 – Airport Safety and Compatibility Zones):</p> <p>There are no private airstrips in the project vicinity; therefore, the proposed project would not expose people residing or working in the project area to excessive noise levels. Thus, the project would have no impact, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>4.2.13 Population and Housing – Would the project:</p>				
<p>a. Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.13a. Response (Sources: Proposed Project):</p> <p>The project is located within an urbanized area and does not include new homes or businesses that would directly induce substantial population growth, and does not involve the addition of new roads or infrastructure that would indirectly induce substantial population growth. The proposed project would include the replacement and operation of historic light standards within public rights-of-ways of a currently developed residential neighborhood. Therefore, the project would have no impact on population growth, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>b. Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>4.2.13b. Response (<i>Sources: Proposed Project</i>):</p> <p>The project is the replacement of existing light standards with historically accurate light standards and replica luminaires within public rights-of-way. Therefore, the project would not displace existing housing, necessitating the construction of replacement housing elsewhere, because the project is proposed on public rights-of-way that have no existing housing that would be removed or affected by the proposed project. As such, there would be no impact on the displacement of housing either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>c. Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.13c. Response (<i>Sources: Proposed Project</i>):</p> <p>The project is the replacement of existing light standards with historically accurate light standards and replica luminaires within the public rights-of-way. Therefore, the project would not displace people necessitating the construction of replacement housing elsewhere, because the project area is proposed on public rights-of-way that have no existing housing or residents that would be removed or affected by the proposed project. As such, the project would have no impact on the displacement of people either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>4.2.14 Public Services – Would the project:</p>				
<p>14. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:</p>				
<p>a. Fire protection?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.14a. Response (<i>Source: City of Riverside 2007c, Table 5.13-B – Fire Station Locations, Table 5.13-C – Riverside Fire Department Statistics and Ordinance</i>):</p> <p>Adequate fire facilities and services are provided by Stations 1 (3420 Mission Inn Avenue) and 3 (6395 Riverside Avenue). The project would replace existing light standards on public rights-of-way and would not result in the intensification of land use on the project site. Since the proposed project is not changing the land uses within the project boundary, fire services and fire needs evaluated in the City's GP 2025 would not change as a result of the project, and thus would not require the need for additional fire protection services. Additionally, the proposed project would be required to comply with the requirements of the City's Fire Department and Uniform Fire Code. Therefore, the proposed project would not result in new facilities related to fire services. There will be no impact on the demand for additional police facilities or services, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				
<p>b. Police protection?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.14b. Response (<i>Sources: City of Riverside 2012a, Figure PS-8 – Neighborhood Policing Centers; City of Riverside 2007c</i>):</p> <p>The project site is located within City's North Policing Center. Orange Police Station and Fairmount Police Station are located within the North Policing Center. Since the proposed project is not changing the land uses within the project boundary, police services and needs evaluated in the City's GP 2025 would not change as a result of the project. The lighting materials would be properly secured during the light replacement activities; however, there is always the possibility of theft. Priority 2 calls are non-life threatening and include incidents such as burglary, petty theft, and shoplifting (City of Riverside 2007c). Police officers strive to respond within 12 minutes to Priority 2 calls. Since the project would not intensify land use within the project site and since the contractor is responsible for all materials including replacement of stolen material during short-term light replacement activities until the project is completed and becomes City property, the proposed project is not expected to result in new facilities that would be needed to serve the proposed project. Therefore, the project would have a less-than-significant impact on the demand for additional police protection, either directly, indirectly, or cumulatively, and no mitigation measures are required.</p>				

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
c. Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.14c. Response (Source: City of Riverside 2007c, Figure 5.13-2 – Riverside Unified School District Boundaries, Table 5.13-D): The project site is located within the Riverside Unified School District. The proposed project does not include new housing and thus would not generate an increase in resident population requiring additional school facilities and services. Therefore, the project would have no impact on school facilities or service, either directly, indirectly, or cumulatively, and no mitigation measures are required.				
d. Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.14d. Response (Sources: City of Riverside 2012a, Figure PR-1 – Parks, Open Spaces and Trails, Table PR-1 – Park and Recreation Facilities; Proposed Project) The project does not propose residential uses and would not be expected to result in an increased demand for parks. Therefore, there would be no impact on the demand for additional recreational or park facilities, either directly, indirectly, or cumulatively, and no mitigation measures are required.				
e. Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.14e. Response (Source: Proposed Project): No other public facilities or services other than police and fire protection are anticipated to serve the proposed project. Therefore, there would be no impact on the demand for other public facilities or services, either directly, indirectly, or cumulatively, and no mitigation measures are required.				
4.2.15 Recreation – Would the project:				
a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.15a. Response (Source: Proposed Project): The proposed project would replace existing historic light standards with historically accurate light standards and replica luminaires. The proposed project would not include new homes or businesses that would increase the use of existing parks or recreational facilities and thus no deterioration of existing facilities would occur. Therefore, there would be no impact on recreational facilities, either directly, indirectly, or cumulatively, and no mitigation measures are required.				
b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.15b. Response (Source: Proposed Project): Please refer to response 4.2.15a. The project does not include construction or expansion of recreational facilities. Therefore, there would be no impact on recreational facilities, either directly, indirectly, or cumulatively, and no mitigation measures are required.				

Issues (and Supporting Information Sources)		Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
4.2.16	Transportation/Traffic – Would the project:				
a.	Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.16a.	<p>Response (Sources: City of Riverside 2012a, Figure CCM-4; City of Riverside 2007c, Figure 5.15-4, Tables 5.15-D, 5.15-H, 5.15-I, 5.15-J, 5.15-K; SCAG 2012, Regional Transportation Plan):</p> <p>The project is the replacement of existing light standards with historically appropriate light standards and replica luminaires within a developed area. No increase in the intensity of land use or substantial increase in traffic would occur as a result of the project. There is expected to be two construction vehicles (one small crane and one truck) at a given time during the light replacement activities. The project would have no impact on local or regional transportation planning, and no mitigation measures are required.</p>				
b.	Conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.16b.	<p>Response (Sources: City of Riverside 2012a, Figure CCM-4; City of Riverside 2007c, Figure 5.15-4 – Volume to Capacity (V/C) Ratio and Level of Service (LOS) (Typical 2025), and Tables 5.15-D, 5.15-H, 5.15-I, 5.15-J, 5.15-K; SCAG 2012 Regional Transportation Plan; Riverside County Transportation Commission 2011, CMP):</p> <p>The project area does not include any of the state highways within Riverside County's Congestion Management Plan (CMP). Magnolia Avenue is designated as a principal arterial within the CMP. The project is consistent with the Transportation Demand Management/Air Quality components of the CMP. Furthermore, as discussed in response 4.2.16a, the project would not result in substantial increase in vehicle traffic. Therefore, the project would have a less-than-significant impact directly, indirectly, or cumulatively on conflicts with an applicable CMP and applicable traffic and transportation standards, and no mitigation measures are required.</p>				
c.	Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.16c.	<p>Response (Source: City of Riverside 2007c, Figure 5.7-2 – Airport Safety and Compatibility Zones):</p> <p>Part of the project site is located within Compatibility Zone "Other Airport Environs" of the Riverside Municipal Airport. However, the project does not include the need for air traffic nor will its operations require any air traffic patterns to be modified. Therefore, the project would have no impact directly, indirectly, or cumulatively on air traffic patterns or associated risks, and no mitigation measures are required.</p>				
d.	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
4.2.16d. Response (<i>Source: Proposed Project</i>): The proposed project site is fully developed under existing conditions, with all site improvements in place. The proposed project is located within public rights-of-way and involves the replacement of existing lighting fixtures. Thus, the project would not result in any modifications to design of existing street alignments or intersections. The project would have no impact on increasing hazards through design or incompatible uses, either directly, indirectly, or cumulatively, and no mitigation measures are required.				
e. Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.16e. Response (<i>Source: Fire Code; Proposed Project</i>): The proposed project site is fully developed under existing conditions, with all site improvements in place. Specifically, the proposed project is located within public rights-of-way. No feature of the proposed project is expected to result in inadequate emergency access as driveways and emergency access points within the project boundary would not be affected by light replacement activities. Additionally, through the City's site plan review , the City Fire Department would ensure that the light replacement activities meet code requirements related to emergency access. Therefore, there would be no impact on emergency access, either directly, indirectly, or cumulatively, and no mitigation measures are required.				
f. Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.2.16f. Response (<i>Sources: RTA 2015; City of Riverside 2007g</i>): Extensive bus service throughout the City is provided by the Riverside Transit Agency. There are bus stops located along (but not limited to) Magnolia Avenue, Brockton Avenue, University Avenue, Market Street, and Mission Inn Avenue within the project site. The City has a Bicycle Master Plan that serves to develop a feasible plan for an interconnected on-street and off-street bicycle lane network throughout the City. As shown on Figure 6-1 of the City's Bicycle Master Plan (City of Riverside 2007g), there is an existing bike lane along Magnolia Avenue; future bike routes/lanes are proposed along Palm Avenue and Brockton Avenue; and a future bike lane is proposed along Jurupa Avenue. During short-term light replacement activities, sidewalks within the project boundaries could be temporarily closed. No bike lanes or bus transit stops would be impacted from the light replacement activities as there are no road detours associated with the project. A traffic control plan would be prepared by the contractor to outline possible detours during the temporary sidewalk closures (MM-TRA-1). As such, the project would not conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities with implementation of mitigation measure MM-TRA-1. Project operation would result in a more uniform and efficient lighting to enhance the safety of bus transit stop, bicycle, and pedestrian facilities within the associated neighborhoods. As such, the project would have a less-than-significant impact with mitigation incorporated on public transit, bicycle, or pedestrian facilities, either directly, indirectly, or cumulatively. MM-TRA-1: Prior to construction of the project, the hired contractor shall prepare and implement a traffic control plan consistent with the City of Riverside's requirements. The traffic control plan shall include an outline of any sidewalk access detours during short-term construction activities.				
4.2.17 Tribal Cultural Resources – Would the project:				
16. Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
g. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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<p>4.2.17a. Response (Sources: City of Riverside 2007c, GP 2025 FPEIR Table 5.5-A Historical Districts and Neighborhood Conservation Areas and Appendix D; City of Riverside 2007a, Title 20 of the Riverside Municipal Code):</p> <p>The project is the replacement of existing light standards with historically appropriate light standards and replica luminaires within a developed area. As discussed in Section 4.2.5a, above, the majority of the site and structures affected by the project are considered to be historic resources as they are a part of designated Historic Districts or NCAs. However, the proposed light replacement is not considered to be a significant change to the features of the cultural landscape of these Historic Districts and NCAs because the original purpose of lighting the streets is being preserved through historically appropriate replacement fixtures. The proposed lighting fixtures would be consistent with Areas 1 and 2 of the Wood Streets Street Light Project, and the proposed number and spacing of streetlights would be consistent with the RP-8 standard, approved by the Riverside City Council in 1996. Respacing of streetlights per block to meet RP-8 Standards is not anticipated to impact historic character as replica streetlights will be reinstalled within the landscaped parkway, layout will be a staggered pattern like historic installations, and two additional street lights per block above RP-8 standards will minimize loss of historic character. Further, both standard and post top luminaires that make up the proposed replica streetlights, were found to be historically appropriate replacements of the historic concrete Corsicans through the prior environmental approvals for Area 1 and Area 2 (City of Riverside 2012b, 2015). Should light fixture replacement activities require tree roots to be removed or trimmed in order to fit in the electrical conduit serving the new lights, which could impact mature neighborhood trees, mitigation measure MM-CUL-1 has been incorporated to ensure trees are replaced in the event the trees do not survive. Further, the proposed project would result in very minimal ground disturbance in an already disturbed and urban area. As such, with implementation of MM-CUL-1, outlined in Section 4.2.5a, would ensure potential impacts would reduce impacts related to historical resources to a less-than-significant level.</p>				
<p>h. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe.</p>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.17b. Response (Source: City of Riverside 2007c, Figures 5.5-1 – Archaeological Sensitivity and 5.5-2 – Prehistoric Cultural Resources Sensitivity, City of Riverside 2012a, Policy HP-1.3 and Policy HP-1.4):</p> <p>As previously discussed in Section 4.2.5, the project area is developed and improved within an urbanized area where minimal activities, such as new development involving trenching and ground disturbance, would occur creating the potential for disturbance to archaeological or paleontological resources. Ground disturbance to an approximate depth of existing streetlights (2 feet) would occur with the construction of new street light footings where replacement light standards and some vaults are installed within landscaped parkways, and roadway and parkway trenching to a maximum depth of 3 feet would occur for new or replacement electrical system equipment, including cable and conduit. Although uncommon, unique existing conditions could require additional 6-12" of depth in a handful of locations. However, due to the developed character of the project area, which includes existing installed streetlights and associated cabling, conduit, and vaults, there is minimal potential for the proposed minor ground-disturbing activities to result in impacts to tribal cultural resources. Further, The City notified tribes of the proposed project on August 15, 2018, in accordance with Assembly Bill 52. The City received three (3) responses to the notification letter. Jessica Mauck, Cultural Resources Analyst, San Manuel Band of Mission Indians (SMBMI), responded on August 16, 2018 to advise that while the project site is just within the Serrano ancestral territory and, therefore of interest to the tribe, the nature and location of the proposed project did not cause any concerns with project implementation, and SMBMI declined to consult on the project. Lacy Padilla, Archaeological Technician, Agua Caliente Band of Cahuilla Indians (ACBCI), responded on August 29, 2018 to advise that the project site is located outside the boundaries of the ACBCI Reservation and within the Tribe's Traditional Use Area, but found the project does not have the</p>				

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>potential to impact cultural resources, had no concerns, and concluded consultation efforts. Travis Armstrong, Tribal Historic Preservation Officer, Morongo Band of Mission Indians (MBMI), responded on September 7, 2018 to advise that the project is located within the Tribe's aboriginal territory or in an area considered to be a Traditional Use Area or one in which the Tribe has cultural ties and originally requested a record search at a California Historical Resources Information System (CHRIS) Archaeological Information Center be conducted and shared with the Tribe, a tribal monitor participate in an initial field survey and that the results of a Phase I Study of the project be shared with the Tribe, and that MBMI Tribal Cultural Resources Monitor(s) be present during all ground disturbing project activity. The City continueds to be engaged in consultation with the MBMI. The City provided MBMI with additional information regarding the project on September 12, 2018. The MBMI did not pursue their original requests and concluded consultation on October 18, 2018. As discussed in Section 4.2.5 above, ground disturbance would be limited to 2 to 3 feet, with an additional 6- to 12-inch of depth in very select locations, if needed, within already developed areas. Further, the proposed project is located entirely within the previously disturbed public right-of-way, and the ground nearly entirely covered, and bordered by fully build residential development. These areas include only the roadbed, curb and gutter, driveways, and landscaped parkway, which includes turf, mature trees (in many areas up to 80-100 years old), streetlights, and utility vaults. However, because inadvertent discoveries of cultural resources, including Native American cultural resources and human remains, could still occur with implementation of the proposed project, mitigation measures MM-CUL-2 and MM-CUL-3 would be implemented. As such, because the project would result in minimal ground disturbance, because the City is consulting with tribes under Assembly Bill 52, as needed, and with implementation of MM-CUL-2 and MM-CUL-3, impacts would be less-than-significant.</p>				
4.2.18 Utilities and Service Systems – Would the project:				
a. Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.18a. Response (Sources: City of Riverside 2012a, Figure PF-2; City of Riverside 2007c, Section 5.16; City of Riverside 2010):</p> <p>The project would not generate wastewater and as such would not require wastewater treatment. The City's Public Works Department will review the proposed project to ensure that the project is in compliance with the City's Wastewater Integrated Master Plan (City of Riverside 2010). The project site is within a developed area with all site improvements in place. The project involves minimal modifications to the project site. Therefore, the project would have no impact directly, indirectly, or cumulatively on wastewater treatment, and no mitigation measures are required.</p>				
b. Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.18b. Response (Sources: City of Riverside 2012a, Tables PF-1 and PF-2; City of Riverside 2007c, Section 5.16; City of Riverside 2010):</p> <p>The project would not require or generate water or wastewater. The proposed project is not expected to require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities that would cause significant environmental effects. The project is consistent with the Typical Growth Scenario of the General Plan 2025, in which future water and wastewater generation was determined to be adequately served by existing facilities. Furthermore, the City's Public Works Department will review the proposed project to ensure that the project is in compliance with the City's Wastewater Integrated Master Plan (City of Riverside 2010). No impact directly, indirectly, or cumulatively to water or wastewater treatment facilities would result from the proposed project, and no mitigation measures are required.</p>				
c. Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>4.2.18c. Response (Source: City of Riverside 2007c, Figure 5.16-2 – Drainage Facilities):</p> <p>The proposed project is located within a previously developed area and would not result in an increase in impervious surfaces. The proposed project consists of the replacement of existing historic light standards and luminaires that does not require the use of stormwater drainage facilities or expansion of existing facilities. As such, the project would not increase surface runoff within the project site or area, and no new or expanded stormwater facilities would be needed as a result of the project. Therefore, the project would have no impact directly, indirectly, or cumulatively on storm drain facilities, and no mitigation measures are required.</p>				
<p>d. Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.18d. Response (Sources: City of Riverside 2007c, Figures 5.16-3 – Water Service Areas and 5.16-4 – Water Facilities, and Tables 5.16-E, 5.16-F, 5.16-G; RPU 2011, RPU UWMP):</p> <p>The project site is located within the RPU service area. The project would not require water supplies to serve the light fixtures. The proposed project is consistent with the General Plan 2025 Typical Growth Scenario, in which future water supplies were determined to be adequate. Therefore, the project would have no impact directly, indirectly, or cumulatively on water supply, and no mitigation measures are required.</p>				
<p>e. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<p>4.2.18e. Response (Sources: City of Riverside 2007c, Figures 5.16-5 – Sewer Service Areas and 5.16-6 – Sewer Infrastructure, and Table 5.16-K; City of Riverside 2010):</p> <p>The project site is located within the City's Public Works sewer service area. Wastewater from the project area is currently treated at the City's Wastewater Treatment Plant located at the Regional Water Quality Control Plant. The proposed project would not generate wastewater as it entails operation of lighting along the public rights-of-way and thus would not increase the volume of wastewater requiring treatment at the Wastewater Treatment Plant. The project is consistent with the GP 2025 Typical Growth Scenario, in which wastewater generation was determined to be served adequately by existing facilities. In addition, the current Wastewater Treatment Master Plan anticipates and provides for this type of project. For these reasons, the project would have no impact directly, indirectly, or cumulatively on wastewater treatment, and no mitigation measures are required.</p>				
<p>f. Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>4.2.18f. Response (Source: City of Riverside 2007c, Tables 5.16-A and 5.16-M):</p> <p>Because the project is consistent with the GP 2025 typical buildout project level, in which future landfill capacity was determined to be adequate, the amount of solid waste generated during installation activities is expected to be within the permitted capacity of nearby landfills. The project would generate minimal waste during installation and would not generate solid waste during operation. The project would have less-than-significant impact directly, indirectly, or cumulatively on solid waste disposal, and no mitigation measures are required.</p>				
<p>g. Comply with federal, state, and local statutes and regulations related to solid waste?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Issues (and Supporting Information Sources)	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less-Than-Significant Impact	No Impact
4.2.18g. Response (Source: <i>California Integrated Waste Management Board 2002, Landfill Facility Compliance Study</i>): See Response 4.2.18f. The California Green Building Code requires all projects to divert 50% of non-hazardous construction and demolition debris for all projects and 100% of excavated soil and land clearing debris for all non-residential projects. The proposed project must comply with the City's waste disposal requirements as well as the California Green Building Code , and as such would not conflict with any federal, state, or local regulations related to solid waste. The project would generate minimal solid waste during installation and would not result in solid waste during operation. Therefore, the project would have less-than-significant impacts directly, indirectly, or cumulatively related to solid waste regulation, and no mitigation measures would be required.				
4.2.19 Mandatory Findings of Significance				
a. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or an endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.2.19a. Response (Source: <i>Proposed Project</i>): The project site is currently developed within an urbanized area consisting of residences, commercial uses, industrial uses, and public facilities, and would not substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, or reduce the number or restrict the range of a rare or an endangered plant or animal. Only minor site modifications to the existing light fixtures within the project area are proposed. Since the project area is associated with the Historic Districts and NCAs within the City, mitigation measure MM-CUL-1 has been incorporated to ensure that the treatment of parkway trees would be compatible with the historic and cultural character of the area. As such, the project would have a less-than-significant impact with mitigation incorporated.				
b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2.19b. Response (Source: <i>City of Riverside 2007c, Section 6</i>): The project is consistent with the General Plan 2025; therefore, no new cumulative impacts beyond those that were anticipated in the GP 2025 would result. As such, the project would have no impact, and no mitigation measures are required.				
c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.2.19c. Response (Sources: <i>City of Riverside 2007c Section 5; Proposed Project</i>): Based on the analysis of all of the previous questions, it has been determined that the project would have a less-than-significant impact on human beings with the implementation of the mitigation measures listed herein.				

5 REFERENCES CITED

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APPENDIX A

Proposed Areas 3–5B Street Light Standards

CITY OF RIVERSIDE, PUBLIC UTILITIES STREET LIGHT DIVISION

STANDARDS & LUMINAIRES STREET LIGHT TO BE REMOVED



TCF

TOWN & COUNTRY
WITH FOOTING



TC

TOWN & COUNTRY



TCFG

TOWN & COUNTRY
FIBER GLASS

TO BE REPLACED WITH A REPLICA
OF THE CORSICAN STANDARD



EXISTING STANDARDS TO REMAIN RPU WILL BE INSTALLING NEW ACORN LUMINAIRES

BEFORE



A1

ACORN 1



A2

ACORN 2



TOWN & COUNTRY
to be protected in place

AFTER



STANDARD WILL BE
REPLACED

EXISTING CORSICAN STANDARD & ACORN



PROPOSED CORSICAN STANDARD & ACORN



DUDEK

Proposed Areas 3-5B Street Light Standards

APPENDIX A
Light Standards

**Proposed Street Light Replacement for Areas 3–5B Project
City of Riverside**

Mitigation Monitoring and Reporting Program

Lead Agency:

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NOVEMBER 2018

MITIGATION MONITORING AND REPORTING PROGRAM

California Public Resources Code, Section 21081.6, requires that a public agency adopt a reporting or monitoring program for the changes made to the project or conditions of project approval adopted in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program would be designed to ensure compliance during project implementation.

This Mitigation Monitoring and Reporting Program (MMRP) has been prepared to ensure the effective implementation of the mitigation measures that the City of Riverside (City) adopted as part of its approval of the proposed Street Light Replacement for Areas 3–5B Project (proposed project), as set forth in the Final Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed project. This MMRP was developed in compliance with California Public Resources Code, Section 21081.6, and Section 15097 of the California Environmental Quality Act (CEQA) Guidelines. The mitigation measures in Table 1, Street Light Replacement for Areas 3–5B Project Mitigation Monitoring and Reporting Program, are coded by alphanumeric identification consistent with the IS/MND prepared for the proposed project. The following items are identified for each mitigation measure listed in Table 1:

- **Mitigation Monitoring.** This section of the MMRP lists the stage of the proposed project during which the mitigation measure would be implemented and indicates who is responsible for implementing the mitigation measure (i.e., the “implementing party”). It also lists the agency responsible for ensuring that the mitigation measure is implemented and that it is implemented properly.
- **Reporting.** This section of the MMRP provides a location for the implementing party or enforcing agency to make notes and to record their initials and the compliance date for each mitigation measure.

The City, as the designated lead agency for the proposed project, is responsible for enforcing and verifying that each mitigation measure is implemented. The City will primarily be responsible for implementing mitigation measures during the construction phase of the proposed project. The MMRP establishes the framework that the City and others will use to implement the mitigation measures adopted in connection with project approval and the monitoring and reporting of such implementation. “Monitoring” is generally an ongoing or periodic process of project oversight. “Reporting” generally consists of a written compliance review.

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Table 1
Street Light Replacement for Areas 3–5B Project Mitigation Monitoring and Reporting Program

Mitigation Measure	Monitoring Phase	Monitoring Method	Enforcement Agency and Responsible Agency	Verification of Compliance		
				Date	Name	Status
Aesthetics						
MM-AES-1 In the event the City of Riverside receives complaints with regard to illumination produced by the new light replacement fixtures, the City will work with the property owners on a case-by-case basis to resolve light, glare, and color issues, by implementing features such as diffuser with shield to minimize light pollution or lower Kelvin bulbs to achieve appropriate light color warmth.	(1) Ongoing during operation of the project	(1) Review and address property owner complaints regarding proposed lighting, on as-needed basis.	City of Riverside			
Cultural Resources						
MM-CUL-1: In the event tree roots associated with City trees along parkways need to be removed or trimmed for the infrastructure installment needed to support the replacement light fixtures, the City's certified arborist shall be consulted to determine how and when the roots should be cut prior to any cutting or removal of roots and where the replacement tree should be planted. The replacement tree should be of the same kind or as determined historically acceptable by the City's arborist and City's Historic Preservation Officer or Qualified Designee.	(1) Ongoing during ground disturbing activities and project construction	(2) City shall consult with Qualified Designee, City arborist, or Historic Preservation Officer in the event of tree or root removal.	City of Riverside			
MM-CUL-2: In the event archaeological or paleontological resources are exposed during construction activities for the proposed project, all earth-disturbing work occurring in the vicinity (generally within 100 feet of the find) shall be temporarily diverted and a qualified professional archaeologist or paleontologist, meeting the Secretary of Interior's Professional Qualification Standards, shall be notified regarding the discovery. The archaeologist/paleontologist shall evaluate the significance of the find and determine whether or not additional study is warranted. If the discovery proves significant under CEQA (14 Code of California Regulations 15064.5(f); California Public Resources Code Section 21082) or Section 106 of the National Historic Preservation Act (36 Code of Federal Regulations 60.4), additional work such as preparation of an archaeological treatment plan, testing, or data recovery may be warranted.	(1) Ongoing during construction activities	(1) The contractor shall notify the City immediately if human remains are discovered. (2) City shall retain a qualified archeologist or paleontologist, if resources are found. (3) The qualified archaeologist/paleontologist shall prepare and provide an evaluation of resources found to the City, if applicable.	City of Riverside			
MM-CUL-3: If human remains are discovered, work shall halt in that area and no soil shall be exported off-site until a determination can be made regarding the provenance of the human remains; and the following procedures as set forth in CEQA Section 15064.5(e), the California Public Resources Code (Sec. 5097.98) and State Health and Safety Code (Sec. 7050.5) shall be undertaken: A qualified professional archaeologist shall be notified of the discovery. The archaeologist shall then notify the Medical Examiner, either in person or via telephone. Work shall be directed away from the location of the discovery and any nearby area reasonably suspected to overlay adjacent human remains until a determination can be made by the Medical Examiner in consultation with the qualified archeologist, concerning the provenience of the remains. The Medical Examiner, in consultation with the archeologist, will determine the need for a field examination to determine the provenience. If a field examination is not warranted, the Medical Examiner will determine with input from the archaeologist, if the remains are or are most likely to be of Native American origin. If Human Remains are determined to be Native American, the Medical Examiner will notify the Native American Heritage Commission (NAHC) within 24 hours. By law, only the Medical Examiner can make this call. The most likely descendant (MLD) will contact the archaeologist within 24 hours or sooner after the Medical Examiner has completed coordination, to begin the consultation process in accordance with CEQA Section 15064.5(e), the California Public Resources and Health & Safety Codes. The MLD will have 48 hours to make recommendations to the property owner or representative, for the treatment or disposition with proper dignity, of the human remains and associated grave goods. Disposition of Native American Human Remains will be determined between the MLD and the City, and, if:	(1) Ongoing during construction activities	(1) The contractor shall notify the City immediately if human remains are discovered. (2) The City shall coordinate as necessary with the County or City Coroner, Native American Heritage Commission, and the most likely descendant with respect to disposition and treatment or remains as provided in PRC 5097.98.	City of Riverside			

Table 1
Street Light Replacement for Areas 3–5B Project Mitigation Monitoring and Reporting Program

Mitigation Measure	Monitoring Phase	Monitoring Method	Enforcement Agency and Responsible Agency	Verification of Compliance		
				Date	Name	Status
<p>A. The NAHC is unable to identify the MLD, or the MLD failed to make a recommendation within 48 hours after being notified by the Commission, or;</p> <p>B. The landowner or authorized representative rejects the recommendation of the MLD and mediation in accordance with PRC 5097.94 (k) by the NAHC fails to provide measures acceptable to the landowner, THEN</p> <p>C. To protect these sites, the landowner shall do one or more of the following:</p> <p>(1) Record the site with the NAHC;</p> <p>(2) Record an open space or conservation easement; or</p> <p>(3) Record a document with the County.</p> <p>D. Upon the discovery of multiple Native American human remains during a ground disturbing land development activity, the landowner may agree that additional conferral with descendants is necessary to consider culturally appropriate treatment of multiple Native American human remains. Culturally appropriate treatment of such a discovery may be ascertained from review of the site utilizing cultural and archaeological standards. Where the parties are unable to agree on the appropriate treatment measures the human remains and items associated and buried with Native American human remains shall be reinterred with appropriate dignity, pursuant to Section 5.c., above.</p> <p>If Human Remains are not Native American, the archeologist shall contact the Medical Examiner and notify them of the historic era context of the burial. The Medical Examiner will determine the appropriate course of action with the archeologist and City staff (PRC 5097.98).</p>						
Transportation/Traffic						
MM-TRA-1: Prior to construction of the project, the hired contractor shall prepare and implement a traffic control plan consistent with the City of Riverside's requirements. The traffic control plan shall include an outline of any sidewalk access detours during short-term construction activities.	(1) Prior to project construction. (2) Ongoing during project construction.	(1) Contractor to prepare and submit a traffic control plan to the City for approval (2) Field verification	City of Riverside			
Tribal Cultural Resources						
MM-CUL-1, MM-CUL-2, and MM-CUL-3	See above	See above	See above			