

Appendix A  
**Notice of Preparation/Initial Study  
and Comment Letters**

---





## **NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE RIVERSIDE HOUSING AND PUBLIC SAFETY ELEMENT UPDATES AND ENVIRONMENTAL JUSTICE POLICIES PROJECT**

The City of Riverside (City) will be the Lead Agency and will prepare an Environmental Impact Report (EIR) for the proposed Riverside Housing and Public Safety Element Updates and Environmental Justice Policies Project (Project or proposed Project). The City is requesting input from you or your agency as to the scope and content of the environmental information relevant to your agency's or organization's statutory responsibilities or interests in connection with the proposed Project.

This Notice of Preparation (NOP) contains a description of the proposed Project, including project setting and location, and identifies the potential environmental effects of the proposed Project. Regional and vicinity maps are included in this NOP as Figures 1 and 2.

**Case Number:** PR-2021-001058

**Project Title:** Riverside Housing and Public Safety Element Updates and Environmental Justice Policies Project

**Lead Agency:** City of Riverside  
Community and Economic Development Department, Planning Division  
3900 Main Street, 3<sup>rd</sup> Floor  
Riverside, CA 92522

**Contact Person:** Matthew Taylor, Senior Planner

**Phone Number:** 951.826.5944

**Email:** [mtaylor@riversideca.gov](mailto:mtaylor@riversideca.gov)

**Project Location:** Citywide

**Existing General Plan Designation:** Various (Refer to Figure 3.)

**Existing Zoning:** Various (Refer to Figure 4.)

**Interested Parties:** Comments and concerns regarding the environmental issues associated with implementation and approval of the proposed Project are requested from organizations and individuals.

**Public Comment Review Period:** Due to time limits mandated by State law, your response must be received at the earliest possible date, but not later than 30 days after receipt of this NOP. The public comment period for this NOP begins on April 5, 2021 and is set to close at 5:00 p.m. on May 5, 2021.

Please send written responses, including your contact information and name of your organization (if applicable), to:

Matthew Taylor, Senior Planner  
City of Riverside Community and Economic Development Department, Planning Division  
3900 Main Street, 3<sup>rd</sup> Floor  
Riverside, CA 92522  
Phone Number: 951.826.5944  
Email: [mtaylor@riversideca.gov](mailto:mtaylor@riversideca.gov)

**Document Availability:** The Initial Study is available on the City's website at [www.riversideca.gov/housingupdate](http://www.riversideca.gov/housingupdate). Matthew Taylor, Senior Planner, can also be contacted to obtain an electronic copy.

**Scoping Meeting:** A virtual public scoping meeting about the proposed Project.

**Meeting Information:** Thursday, April 22, 2021  
6:00 p.m. (Pacific Standard Time)  
Attend the virtual meeting live webcast:

Zoom Webinar Information

**Webinar link:**

<https://zoom.us/j/93380881962?pwd=RDgwSXg1YWFKaDVFOGhpbEV6K2pZQT09>

**Webinar ID:** 933 8088 1962

**Passcode:** 5851

**Phone:** +1 (213) 338-8477

**Text Line:** (661) 241-8994

**Registration link:**

[https://zoom.us/webinar/register/WN\\_XIYusELwTZS7x08Lat3Y-w](https://zoom.us/webinar/register/WN_XIYusELwTZS7x08Lat3Y-w)

Línea telefónica en español

**Teléfono:** +1 (872) 240-3311

**Código de acceso:** 269-232-901

**Línea de texto:** (661) 241-8994

The purpose of the public scoping meeting is to inform the public that the City is evaluating the Project under the California Environmental Quality Act (CEQA) process. It will also provide a forum for submittal of public comments regarding the type and extent of the environmental analysis that will be undertaken under the EIR.

Note: No pre-registration is required. Entering the web address above will directly take you to the broadcast room sign-in. Name and email address are required to enter the broadcast room to keep track of attendees. Questions and comments will be received using the chat feature and addressed by the presenters.

## 1.0 PROJECT LOCATION AND SETTING

The City of Riverside (City) is in western Riverside County. It is bounded on the north by the Santa Ana River and the Cities of Jurupa Valley, Colton, and Rialto (San Bernardino County); on the south by the unincorporated communities of Woodcrest and Mockingbird Canyon; on the north and east by the unincorporated community of Highgrove and the City of Moreno Valley; and on the west by the unincorporated community of Home Gardens and the Cities of Norco and Corona. State Route 91 (SR-91), a major regional freeway, traverses the City in an east-west orientation, while State Route 60 (SR-60) and Interstate 215 (I-215) traverse the City's eastern portion in a north-south orientation. The Riverside Municipal Airport is within the western portion of the city limits. March Air Reserve Base and Flabob Airport are adjacent to the City in Riverside County. Figure 1 illustrates the regional context for the City, and Figure 2 illustrates the local context.

The City's existing corporate boundaries include approximately 51,310 gross acres. The Northern Sphere of Influence (SOI) encompasses approximately 4,088 gross acres—from the existing city limits to the San Bernardino County line and east to the Box Springs Mountain Regional Park—and includes the Highgrove community. The Southern SOI encompasses approximately 36,826 gross acres and extends from the City's southern border to the Cajalco Ridge crest, just south of Cajalco Road. The area includes the communities of El Sobrante, Glen Valley, Woodcrest, and limited portions of Gavilan Hills and Lake Mathews. In 2006, the Riverside Local Agency Formation Commission conducted a review of the City's SOI areas and affirmed the boundaries identified above. Overall, the City's Planning Area encompasses approximately 92,224 gross acres.

The Housing and Public Safety Elements are citywide planning documents associated with the *Riverside General Plan 2025*. A component of the Housing Element update is a rezoning program that involves multiple sites at various locations in all parts of the City. Environmental justice policies are an additional component of the proposed Project. The geographic setting for the Project is the entire City of Riverside. Figure 3 illustrates the General Plan Land Use Designations for the City, and Figure 4 shows its existing zoning.

## 2.0 BACKGROUND

The City has a population of approximately 328,155 persons as of January 2020 (Department of Finance 2020). In the City's recent history, population growth has been constant, adding approximately 40,000 new residents each decade since the 1960s. Past growth has been fueled by the City's attractive housing market due to its affordable offerings. Despite periods of economic recession, the City has continued to experience consistent growth.

The City's population is anticipated to continue to grow. According to the *Final Program Environmental Impact Report for the City of Riverside General Plan and Supporting Documents* (GP FPEIR), the City has a projected population of 383,077 persons at General Plan buildout (2025), including 346,867 persons within city limits and 36,210 persons within the City's SOI (City of Riverside 2007). According to Southern California Association of Governments (SCAG), the City's population is projected to increase to 395,800 by 2045 (SCAG 2020).

According to the State Department of Finance estimates, as of January 2020, the City's housing stock was estimated at 101,414 dwelling units (du), with a projected increase to 115,100 du by 2045 (SCAG 2020). Single-family detached units compose the majority (68 percent) of housing in the City. Within this general category, single-family du can range from smaller detached units or attached homes with two to four units to larger estate homes. Multi-family units, primarily apartments, compose approximately 30 percent of the City's housing stock, while mobile homes

compose approximately 2 percent. The City also has a substantial number of units targeted for seniors (both independent and group), students, and people with disabilities.

Housing and Public Safety are two of the 12 elements that constitute the *Riverside General Plan 2025*. The General Plan serves as the City’s blueprint for future growth and is a key tool for influencing and improving the quality of life for residents and businesses. The General Plan helps the City plan for important community issues such as new growth, housing needs, and environmental protection, and for sustainability plans for future social, physical, and economic development. It also addresses issues that affect the entire City, such as how land is used, where buildings are constructed, and how the transportation network works. The City’s update to the Housing and Public Safety Elements—in conjunction with Zoning Code and Specific Plan Amendments and the addition of environmental justice policies—will be evaluated as the proposed Project in a forthcoming EIR. An update to the Public Safety Element is required at the time the Housing Element is updated, per Senate Bill 1035. The proposed Project is the first phase of an overall update to the *Riverside General Plan 2025*. Once this phase has been completed, the City will pursue comprehensively updating the remaining 10 chapters of the General Plan as a separate project during a later phase.

## **2.1 Regional Housing Needs Assessment (RHNA)**

The Statewide Regional Housing Needs Assessment (RHNA) is an assessment process performed every 8 years through which the State of California provides the number of housing units that must be planned for in the Southern California region. The RHNA represents the projected future housing need for all income levels in a region and is used in land use planning to prioritize local resource allocation and to assist with addressing existing and future housing needs. The City last updated the Housing Element in 2018 as a mid-5<sup>th</sup> cycle revision.

In the 2021–2029 Housing Element Cycle (6<sup>th</sup> cycle), the City’s RHNA allocation is a minimum of 18,458 new housing units. The City’s previous Housing Element was adopted in 2017 and runs through 2021, thus the need for this update. The Housing Element cycle covering the 2013–2021 period included an RHNA allocation of 10,025 units, of which only a small portion were built during the last 8 years. Given that 100 percent of potential housing sites will be developed to full potential, the City has provided a buffer of approximately 5,500 dus (approximately 30 percent over and above the RHNA allocation), and the City will identify space for up to 24,000 new homes for the 2021–2029 RHNA cycle. This next update cycle comes when California faces a major statewide housing shortage that is affecting all Californians by raising the price of housing and the cost of construction, and by increasing homelessness.

## **2.2 Environmental Justice Requirements**

The City is also required by State law (Senate Bill [SB] 1000) to include environmental justice goals and policies in the General Plan. Environmental justice is defined by the State of California as the “fair treatment and meaningful involvement of people of all races, cultures, incomes, and national origins with respect to the development, adoption, implementation, and enforcement of laws, regulations, and policies” (California Government Code Section 65040.12(e)).

### **3.0 PROJECT OBJECTIVES**

Preliminary objectives of the proposed Project are:

- Plan for up to 24,000 new housing units by 2029 across the City to meet the City’s RHNA obligation.
- Affirmatively further fair housing and identify potential environmental justice and social equity issues to support positive economic, educational, and health outcomes for low-income families—particularly long-term outcomes for children.
- Ensure affordable housing is added in many areas across the City and not concentrated in areas with lower access to amenities or near sources of pollution.
- Add a variety of housing opportunities that will make Riverside a more accessible and resilient community.
- Locate new housing in areas readily accessible to services, parks and other amenities, transit, jobs, and activity centers.
- Identify vacant or under-developed sites, meaning sites with substantial unused land or development potential.
- Limit or prevent housing development in areas with development constraints, such as agricultural and conservation lands, airport influence areas, and, to the extent feasible, fire and flood hazard zones.
- Address the public safety and public health needs and concerns of its residents, businesses, institutions, and visitors, and set forth a proactive and coordinated program of protection for all foreseeable natural and human-caused hazards.
- Reduce the potential adverse impacts of housing near undesirable land uses, along major corridors, or near similar uses.

### **4.0 PROJECT DESCRIPTION**

#### **4.1 Housing Element Update**

To meet the RHNA requirements, City staff are currently working on the Housing and Public Safety Element updates and environmental justice policies as part of the proposed Project. The main components of the Housing Element update are dictated by State law and typically must include:

- A detailed analysis of the City’s demographic, economic, and housing characteristics
- A comprehensive analysis of the barriers to producing and preserving housing
- A review of the City’s progress in implementing its adopted housing policies and programs
- An identification of goals, objectives, and policies, in addition to a full list of programs that will help the City carry out the plan’s vision
- A list of sites that could accommodate new housing, demonstrating the City’s ability to meet its target number of new homes established in the RHNA

The updated Housing Element must show the exact locations where future housing can be built, called opportunity sites, and identify the potential number of homes that can be built at those

locations. During the beginning stages of reviewing housing locations, the City has limited or eliminated sites:

- With sensitive habitat or species
- Where the topography is not conducive to building
- That are unsafe because they are in a flood zone, high-fire area, or airport land use area
- Where voter-approved zoning rules restrict development, such as in the agricultural greenbelt and on hillsides
- High biological sensitivity areas like arroyos and canyons

Areas that could be designated for additional housing include:

- Vacant lots not designated as open space
- Underused sites, such as lots with buildings that are empty, deteriorated, or no longer needed
- Locations where more homes could easily fit within the same space than are there today
- Locations near public transit and essential services like libraries and neighborhood-serving shopping and amenities
- Areas where housing could be added near commercial buildings or in business parks, creating “live-work” neighborhoods
- Sites where infrastructure, such as water and sewer service, can support more housing

During the planning process, opportunity sites were identified for accommodation of future housing projects to meet the housing demand. These opportunity sites are identified in Figures 5 through 18.

Because the Housing Element is updated every 8 years, the 5<sup>th</sup> cycle Housing Element provides a foundation for this 6<sup>th</sup> cycle update. This update gives the City the opportunity to evaluate the previous Housing Element to determine which parts have been effective and which should be improved.

In addition to updates to the Housing and Public Safety Elements, and new environmental justice policies, the Project includes Zoning Code and Specific Plan Amendments to accommodate housing needs.

## **4.2 Public Safety Element Update**

The goal of a jurisdiction’s Public Safety Element is to reduce the potential short- and long-term risk of death, injuries, property damage, and economic and social disruption resulting from fires, floods, droughts, earthquakes, landslides, climate change, and other hazards. Other locally relevant safety issues—such as emergency response, hazardous materials spills, crime reduction, and response to global pandemics like Covid-19 beginning in 2020 and continuing through 2021—may also be included. The Public Safety Element directly relates to topics mandated in the Land Use and Urban Design and Open Space and Conservation Elements as well as a key consideration for the environmental justice policies of the General Plan. The Public Safety Element must identify hazards and ways to reduce those hazards to guide local decisions related to zoning and development regulations. Policies and implementable actions may include methods for minimizing risks, as well as ways to minimize economic disruption and speed up recovery following disaster. The City’s update to the Public Safety Element will identify public safety issues and needs anticipated to be of ongoing concern to people in the City. The Public Safety

Element will ensure that the City takes action to reduce natural and man-made hazards and safety threats as well as respond quickly to any public safety incident.

#### **4.3 Environmental Justice Policies**

Environmental justice goals are achieved when everyone in the City has the same degree of protection from environmental and health hazards; a healthy environment in which to live, learn, and work; and equal access to the decision-making process. Environmental justice policies will be aimed at reducing health risks, promoting civic engagement, and prioritizing the needs of disadvantaged communities with implementable actions that achieve them. Environmental justice goals and policies will be developed by identifying disadvantaged communities and demographics and conducting community outreach to better understand the unique and disproportionate challenges faced by these communities. This will guide the City's efforts to address issues related to public health, social equity, and environmental justice.

#### **4.4 Opportunity Sites**

The City has made a good faith attempt to equitably distribute the opportunity sites throughout the City in each of the seven wards so as not to place an undue burden on any one ward if possible. The process of developing the opportunity sites involved identifying and eliminating sites with constraints to development. Overall, the identified opportunity sites, with Zoning Code and Specific Plan Amendments, could accommodate up to 30,190 housing units. The total number of housing units that could result from implementation of the Zoning Code and Specific Plan Amendments includes the 18,458 housing units that would be required to meet the RHNA and an additional approximately 5,500 housing units to account for less than 100 percent development of at least some of the sites.

Site inventory analysis for the City of Riverside was initially conducted using a data-driven process to surface as many sites as possible. A weighted suitability model was used to evaluate multiple criteria influencing the likelihood of development on a parcel-by-parcel basis. Each property was assigned a total weighted score, where the higher the score the greater the likelihood of development. The following factors were used in this process:

- Existing Land Use was used to identify properties with industrial, commercial, office, and mixed use uses active on the site as defined by Riverside County. These uses either currently allow for housing production or could support housing in the future with zoning amendments. Single-family residential existing land use properties were generally excluded from further consideration.
- General Plan Land Use looks at what is allowed within the General Plan future land use map, which may allow for housing in the future on a site that currently does not support housing. Targeted land uses include multi-family residential, industrial, commercial, office, and mixed use.
- Year constructed of developments on the property as defined by Riverside County Assessor was used to identify older properties more likely to redevelop as opposed to newer properties less likely to redevelop.
- Improvement Ratio, which looks at the ratio between the value of improvements (buildings, or other construction) versus the value of the underlying land (improvement value/land value), is considered a market factor influencing the likelihood of development. When the underlying land is worth more than the improvements on the land, the property is more likely to redevelop.

- Lot Acreage was evaluated given the importance of lot size according to the California Department of Housing and Community Development site inventory criteria for the 6<sup>th</sup> cycle RHNA process. Lots with an area less than half an acre are considered too small to produce enough housing to support affordability. Lots larger than 10 acres are likely too expensive for affordable housing developers to purchase. Therefore, the analysis looked for properties greater than half an acre and smaller than 10 acres.
- Lot Vacancy is a key driver for the site inventory process given the ease of developing housing on vacant lots. Initially Riverside County existing land use information was used but manual review of each site was required to ensure accuracy.
- Underutilization Index looks at the amount of actual lot coverage, actual building height, and actual floor area developed on a property compared to what is allowed by zoning. The greater the difference between what is actually developed versus what is allowed, the greater the property is underutilized and is a target for development.
- Airport Compatibility Zones removes properties from consideration if the properties are in the most restrictive airport land use areas: A, B1, B2, C, C1, and C2.
- Current Zoning is used in similar ways as Existing Land Use and General Plan Land Use.
- City Opportunity Sites contains a list of target sites identified by the City for consideration based on City staff's expert local knowledge.
- Pipeline projects contains a list of active development projects known currently tracked by the City. These sites were eliminated from consideration.
- 5<sup>th</sup> cycle RHNA sites were automatically included in the analysis so long as the sites were not already developed.
- Lastly, a Manual Override flag was used to include or exclude properties based on detailed manual evaluation of each site by the City.

#### **4.5 Zoning Code Amendments**

Areas of the City are proposed for rezoning to allow for fulfillment of the City's RHNA. The proposed Zoning Code and Specific Plan Amendments would include mixed-use categories, which would provide for development of some lower-level commercial/retail, office, and potentially live/work uses. Areas proposed for rezoning are illustrated in Figures 12 through 18. For purposes of the CEQA analysis, the maximum of development that could be allowed will be analyzed in the forthcoming EIR. As stated previously, the City identified an inventory of potential opportunity sites to accommodate the RHNA obligation and buffer. Using mapping tools, the first step involved identifying sites across the City that could potentially accommodate housing. Criteria was used to identify the initial inventory, including identifying undeveloped or underdeveloped sites, or sites with vacant buildings, high rates of vacancy, etc. Sites were then removed from the potential inventory if there were extra protections imposed by Proposition R, Measure C, or housing restrictive zoning (i.e., airport land use incompatibility); if there were known environmental risks like high fire hazard or floodplain areas; if there was a lack of available infrastructure services, such as wet or dry utilities; or if there were no amenities in the vicinity, like transportation access or employment centers.

The next step in the process included development of scenarios to meet the RHNA obligations. Not all opportunity sites identified in the preliminary inventory are currently zoned to allow for housing development. The following scenarios were developed to identify options obtaining the RHNA obligations.

For the 6<sup>th</sup> cycle Housing Element, the City is also able to “take credit” for approximately 3,000 units that are currently in some stage of development and an estimated 800 to 1,000 accessory dwelling units citywide.

The next step involved refining the preliminary opportunity sites to develop a Preferred Alternative, or the proposed Project, to accommodate the RHNA obligations. Potential opportunity sites were prioritized for inclusion and others were selected for removal based on the refinement process of ensuring sites met identified criteria and were also dispersed throughout the City.

The opportunity sites’ existing on-site conditions indicates that approximately 542 acres (approximately 74 percent) of the opportunity sites are developed to varying degrees with residential and non-residential land uses, while the remaining approximately 194 acres are undeveloped. Approximately 222 du and approximately 6 million square feet of non-residential land uses are located on the opportunity sites.

#### **4.6 Specific Plan Amendments**

The Housing Element will require amendments to seven specific plans in the City. These Specific Plan Amendments would involve updates to allowed uses in certain districts, include adding residential land uses as an allowed use, changing the boundaries of some districts, or revising land use area tabulations. The following specific plans will require updates, including mapping and land use changes, to accommodate opportunity sites that have been identified within their existing specific plan boundaries. The specific plan areas subject to change are illustrated on Figure 19, and specific proposed changes are illustrated on Figures 20 through 22.

- Downtown Specific Plan
- Magnolia Avenue Specific Plan
- University Avenue Specific Plan
- Riverside Marketplace Specific Plan
- Canyon Springs Business Park Specific Plan
- Hunter Business Park Specific Plan
- La Sierra University Specific Plan

Table 1 summarizes the opportunity sites identified by the City that will not require zoning changes. Table 2 provides information concerning the opportunity sites that are proposed to be rezoned.

**Table 1. Opportunity Sites Requiring No Zoning Code or Specific Plan Amendments**

| Ward         | Total Acreage | Total Maximum # DU Allowed |
|--------------|---------------|----------------------------|
| Ward 1       | 122           | 4,491                      |
| Ward 2       | 10            | 484                        |
| Ward 3       | 3             | 101                        |
| Ward 4       | 20            | 587                        |
| Ward 5       | 32            | 1,316                      |
| Ward 6       | 40            | 1,504                      |
| Ward 7       | 27            | 668                        |
| <b>Total</b> | <b>254</b>    | <b>9,151</b>               |

Source: City of Riverside 2021.

**Table 2. Opportunity Sites with Associated Zoning Code and Specific Plan Amendments**

| Ward         | Total Acreage | Maximum # DU Allowed under Current Zoning | Maximum # DU Allowed under Proposed Zoning | Net Increase  |
|--------------|---------------|---|--|---------------|
| Ward 1       | 210           | 314                                       | 20,853                                     | 20,539        |
| Ward 2       | 92            | 326                                       | 2,472                                      | 2,146         |
| Ward 3       | 90            | 386                                       | 1,548                                      | 1,162         |
| Ward 4       | 29            | 17  | 432  | 415           |
| Ward 5       | 61            | 372                                       | 1,513                                      | 1,141         |
| Ward 6       | 88            | 820                                       | 1,958                                      | 1,138         |
| Ward 7       | 82            | 346                                       | 1,414                                      | 1,068         |
| <b>Total</b> | <b>652</b>    | <b>2,581</b>                              | <b>30,190</b>                              | <b>27,609</b> |

Source: City of Riverside 2021.

Rezoning of the opportunity sites would also result in non-residential development in those areas to be designated as mixed-use. Mixed-use zones include:

- Mixed-Use Urban (MU-U/MU-U-TA\*):
- Mixed-Use Village (MU-V/MU-V-TA\*):

\* The TA designation means Transit Adjacent applies to parcels within 0.5 mile of a transit stop and provides a density bonus.

Table 3 summarizes the total amount of residential and non-residential square footage and number of housing units that could be developed in the proposed mixed-use zones. Table 4 summarizes the potential development by Ward.

**Table 3. Potential Development in Mixed-Use Zones**

| Development Type       | Percent | Total square feet | # Residential Units       |
|------------------------|---------|-------------------|---------------------------|
| Non-Residential        | 25%     | 2,833,310         |                           |
| Residential            | 35%     | 3,966,633         |                           |
| Mixed use <sup>1</sup> | 40%     | 4,533,295         |                           |
| <b>Total</b>           |         | <b>11,333,238</b> | <b>10,124<sup>2</sup></b> |

<sup>1</sup> Includes both residential (80%) and non-residential (20%).

<sup>2</sup> Assumes average unit size of 1,025 square feet.

Source: City of Riverside 2021.

**Table 4. Total Residential and Non-Residential Development in Mixed-Use Zones by Ward**

| Ward | Total Residential (# DU) | Total Non-Residential (SF) |
|------|--------------------------|----------------------------|
| 1    | 381                      | 140,869                    |
| 2    | 3,186                    | 1,177,118                  |
| 3    | 679                      | 251,007                    |
| 4    | 557                      | 205,983                    |
| 5    | 1,929                    | 712,738                    |
| 6    | 1,941                    | 717,230                    |
| 7    | 1,448                    | 535,023                    |

Source: City of Riverside 2021.

## 5.0 OTHER PUBLIC AGENCIES WHOSE REVIEW OR APPROVAL IS REQUIRED

- **California Department of Housing and Community Development (HUD)** will approve the Housing Element update prior to its adoption.
- **California Geological Survey of the Department of Conservation** will review the Public Safety Element Update prior to its adoption.
- **State Board of Forestry and Fire Protection** will review the Public Safety Element prior to its adoption.
- **City of Riverside Fire Department** will review the Public Safety Element Update prior to its adoption.
- **County of Riverside Fire Department** will review the Public Safety Element Update prior to its adoption.

## 6.0 AB 52/SB 18 CONSULTATION

The City will send out Assembly Bill (AB) 52 consultation notices to tribes to initiate consultation. For previous projects, the following California Native American tribes have requested consultation with the City pursuant to Public Resources Code 21080.3.1:

- Gabrieleno Band of Mission Indians–Kizh Nation
- Soboba Band of Luiseño Indians
- Cahuilla Band of Indians
- Pechanga Cultural Resources Department
- Rincon Band of Luiseño Indians
- San Manuel Band of Mission Indians
- Morongo Band of Mission Indians
- Agua Caliente Band of Cahuilla Indians
- San Gabriel Band of Mission Indians

SB 18 consultation notices will also be sent out. The results of the consultations will be included in the forthcoming EIR.

## 7.0 OTHER ENVIRONMENTAL REVIEWS INCORPORATED BY REFERENCE IN THIS REVIEW

- *Riverside General Plan 2025*
- GP FPEIR
- City of Riverside Housing Element Update EIR
- Title 19, Zoning Code
- Title 20, Cultural Resources

## 8.0 ENVIRONMENTAL IMPACT REPORT

The City of Riverside will prepare an EIR in compliance with CEQA. The EIR will consider the proposed Project and a reasonable range of alternatives. A detailed description of the proposed Project and alternatives will be included in the EIR. It is anticipated that several alternatives will be considered, which may include alternatives that vary by the level of density proposed or housing types, or a combination of these factors.

CEQA generally requires analysis of a No Project Alternative (i.e., the environmental impacts of continuing existing conditions). As such, the No Project Alternative would include what would be reasonably expected to occur in the foreseeable future, if the proposed Project were not approved, based on current plans and consistent with available infrastructure and community services. The following alternatives will be considered in the forthcoming EIR along with the proposed Project.

- **No Project Alternative.** No changes to existing zoning or allowed development on preliminary opportunity sites would occur. This scenario would not meet the City's RHNA goal of 24,000 units.
- **Dispersed Growth Alternative.** Housing development would be spread more widely across almost all opportunity sites, generally at lower densities, resulting in less intensive but more widespread land use changes. This scenario would exceed the City's goal of 24,000 RHNA units.
- **Focused Growth Alternative.** Housing development is limited to strategic locations with superior access to transportation, employment, services, and amenities, generally at higher densities and more intensive land use changes. This scenario would also exceed the City's RHNA goal of 24,000 units.
- **Limited Opportunity Sites.** This alternatives would involve selection of a reduced number of the identified opportunity sites on which to locate future housing development, focused on meeting but not exceeding the RHNA allocation.

### 8.1 Potential Environmental Effects

The proposed Project would include updates to the Housing and Public Safety Elements, addition of environmental justice policies, and Zoning Code and Specific Plan Amendments to accommodate SCAG's RHNA allocation. This would result in facilitating development on up to on up to 725.1 acres within the City and its SOI (501.3 acres of which would be a result of rezoning) and could accommodate housing. Preliminary analysis has identified several environmental resources for which environmental impacts are anticipated to be less than significant or for which little to no effect would occur. These topics will not require detailed analysis but will be discussed in the EIR with rationale supporting their dismissal.

These resources are anticipated to include:

- Aesthetics
- Agriculture and Forestry Resources
- Energy
- Geology, Soils
- Hydrology and Water Quality
- Mineral Resources
- Wildfire

Preliminary analysis also identified several environmental resources for which environmental impacts would be potentially significant. The EIR will focus on disclosing these significant and potentially significant effects of the proposed Project and the EIR alternatives on these various environmental resources:

- Air Quality
- Biological Resources
- Cultural Resources
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Land Use and Planning
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems
- Paleontological Resources

For each issue listed above, the EIR section will include discussions of environmental setting, regulatory framework, environmental effects, and mitigation for significant impacts. The direct, indirect, and cumulative effects of the Project will be considered. For potentially significant impacts, the EIR will identify mitigation measures, where feasible, to reduce these impacts to the extent possible. Per Section 15082(a)(1)(C) of the State CEQA Guidelines related to the contents of an NOP, the discussions below identify probable environmental effects of the proposed Project.

### **8.2.1 Air Quality**

The City is in the South Coast Air Basin (SCAB), which includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The SCAB is currently classified as nonattainment area for the federal and State ozone (O<sub>3</sub>) standards and particulate matter (PM) less than or equal to 2.5 microns (PM<sub>2.5</sub>) standards, and a nonattainment area for the PM less than or equal to 10 microns (PM<sub>10</sub>) State standards (U.S. Environmental Protection Agency 2020; SCAQMD 2016). Implementation of the proposed Project and associated development may conflict with or obstruct implementation of the applicable air quality plan, result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard, or expose sensitive receptors to substantial pollutant concentrations. Impacts related to air quality resources for these thresholds will be analyzed in detail in the EIR.

### **8.2.2 Biological Resources**

The majority of the undeveloped lands, open space, and conserved lands are located along the northern border of the City along the Santa Ana River corridor and in the undeveloped foothills, canyons, arroyos, and mountains of Sycamore Canyon Park, Mockingbird Canyon, and Alessandro Heights in the southern and eastern portions of the City. These open space areas contain native riparian, grassland, and scrubland habitats that support many native plants and animals, including special-status species and sensitive natural communities.

Implementation of the proposed Project and associated development could 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 Wildlife or U.S. Fish and Wildlife Service; have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service; have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marshes, vernal pools, coastal wetlands, etc.) through direct removal, filling, hydrological interruption, or other means; 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; or conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan. Impacts related to biological resources for these thresholds will be analyzed in detail in the EIR.

### **8.2.3 Cultural Resources**

The City and SOI contain numerous archaeological and historical resources. Implementation of the proposed Project and associated development could cause a substantial adverse change in the result of a historical or archaeological resource. Impacts related to cultural resources for these thresholds will be analyzed in detail in the EIR.

### **8.2.4 Greenhouse Gas Emissions**

Increases in fossil fuel combustion and deforestation have exponentially increased concentrations of greenhouse gases (GHGs) in the atmosphere. Rising atmospheric concentrations of GHGs in excess of natural levels result in increasing global surface temperatures—a phenomenon commonly referred to as *global warming*. The primary associated GHG emissions are carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), and fluoridated compounds. Implementation of the proposed Project and associated development could generate GHG emissions that may have a significant impact on the environment or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions. Impacts related to GHG emissions will be analyzed in detail in the EIR.

### **8.2.5 Hazards and Hazardous Materials**

A review of the State Water Resources Control Board's Geotracker and the Department of Toxic Substances Control's Envirostor of hazardous materials sites listed within the City identified multiple hazardous material cleanup sites including: Leaking Underground Storage Tank (LUST) Cleanup Sites, Cleanup Program Sites, Military Cleanup and Underground Storage Tank Sites, and Department of Toxic Substances Control Cleanup Sites throughout the City. Implementation of the proposed Project could create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions or through hazardous emissions, or the site could be located on a hazardous materials cleanup site. Impacts related to hazards and hazardous materials will be analyzed in detail in the EIR.

### **8.2.6 Land Use and Planning**

The proposed Project would involve Zoning Code amendments to accommodate housing needs. These zoning changes could cause a significant environmental impact due to a physical division of an established community or conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. Impacts related to land use conflicts will be analyzed in detail in the EIR.

### **8.2.7 Noise**

The proposed Project would facilitate an increase to the housing stock throughout the City and potentially new public safety facilities. Therefore, the geographic scope of the proposed Project is extensive and could be surrounded by other noise-sensitive land uses as well as many of the noise sources. The Project could generate a substantial temporary or permanent increase in ambient noise levels, generate excessive groundborne vibration or noise, or be located within 2 miles of a public use airport. Impacts related to noise will be analyzed in detail in the EIR.

### **8.2.8 Population and Housing**

Due to the rezoning of sites, there is a potential increase of up to approximately 29,863 new housing units between 2021 and 2029. Based on the City's current Housing Element, the average household size is 3.28 persons per du. The rezoning of opportunity sites has the potential to increase the City's population, which could exceed planned growth. Impacts related to population and housing and exceedance of planned growth will be analyzed in detail in the EIR.

### **8.2.9 Public Services**

Implementation of the proposed Project and associated development could result in substantial adverse physical impacts associated with the provision of new or physically altered fire protection, police protection, parks, schools, or library facilities in order to maintain acceptable service ratios or other performance objectives. Impacts related to public services will be analyzed in detail in the EIR.

### **8.2.10 Recreation**

The proposed Project would allow build-out of additional housing, which would result in an increase in resident population. While the parks-to-population ratio may still meet City goals with this population increase, deterioration of existing parks and recreational facilities may occur in localized areas. In addition, the increase in population may result in the need for construction of new parks or recreation facilities, the construction of which could result in significant environmental impacts. Impacts related to recreation will be analyzed in detail in the EIR.

### **8.2.11 Transportation**

The existing roadway network, bikeways, and local transit services, and planned roadway, bikeway, and transit improvements in the area are described in the *Riverside General Plan 2025*, Circulation and Community Mobility Element and in the Draft Existing Conditions Riverside Housing Element Update, Transportation section. Impacts related to transportation will be analyzed in detail in the EIR.

### **8.2.12 Tribal Cultural Resources**

The project area is near an ethnographic transition zone between various Native American tribes. Implementation of the proposed Project and associated development could 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. Impacts on tribal cultural resources will be analyzed in detail in the EIR.

### **8.2.13 Utilities and Service Systems**

The proposed Project and associated development would result in increased development densities. Individual Projects under the proposed Project could require relocation or construction of new utility infrastructure, result in insufficient water supply or wastewater conveyance and

treatment capacity, or generate solid waste in excess of State or local standards or exceeding capacity of local infrastructure. Impacts related to utilities and service systems will be analyzed in detail in the EIR.

#### **8.2.14 Paleontological Resources**

The County of Riverside Paleontological Sensitivity Model shows that most of the area within the city limits contains geologic units with High A, High B, or Undetermined paleontological sensitivity, with a minority containing geologic units with Low paleontological sensitivity. Because the opportunity sites under the proposed Project are situated throughout the City, it is likely that some of these sites are located on geologic units with High A, High B, or Undetermined paleontological sensitivity. Depending on the location and depth of ground disturbance, proposed operations could disturb previously unknown significant fossils, potentially damaging or destroying such fossils. This impact is potentially significant and will be analyzed in detail in the EIR.

### **9.0 PROPOSED DISCRETIONARY ACTIONS/ REQUIRED APPROVALS**

The following entitlements are required for the proposed Project:

- General Plan Text Amendment (GPA) to amend the Housing and Public Safety Elements of the General Plan 2025 (case DP-2021-00475)
- General Plan Map Amendment (GPA) to change the Land Use designation of up to 652 acres (case DP-2021-00476)
- Zoning Code Text Amendment to amend Title 19 (case DP-2021-00479)
- Zoning Code Map Amendment to rezone 652 acres (case DP-2021-00480)
- Specific Plan Amendment to change land use designation and boundaries in seven Specific Plans to accommodate future housing (case DP-2021-00478)
- EIR for the proposed Project (case DP-2021-00481)



---

Matthew Taylor, Senior Planner  
Telephone: 951.826.5944  
Email Address: [mtaylor@riversideca.gov](mailto:mtaylor@riversideca.gov)

April 2, 2021

---

Date

## 10.0 REFERENCES CITED

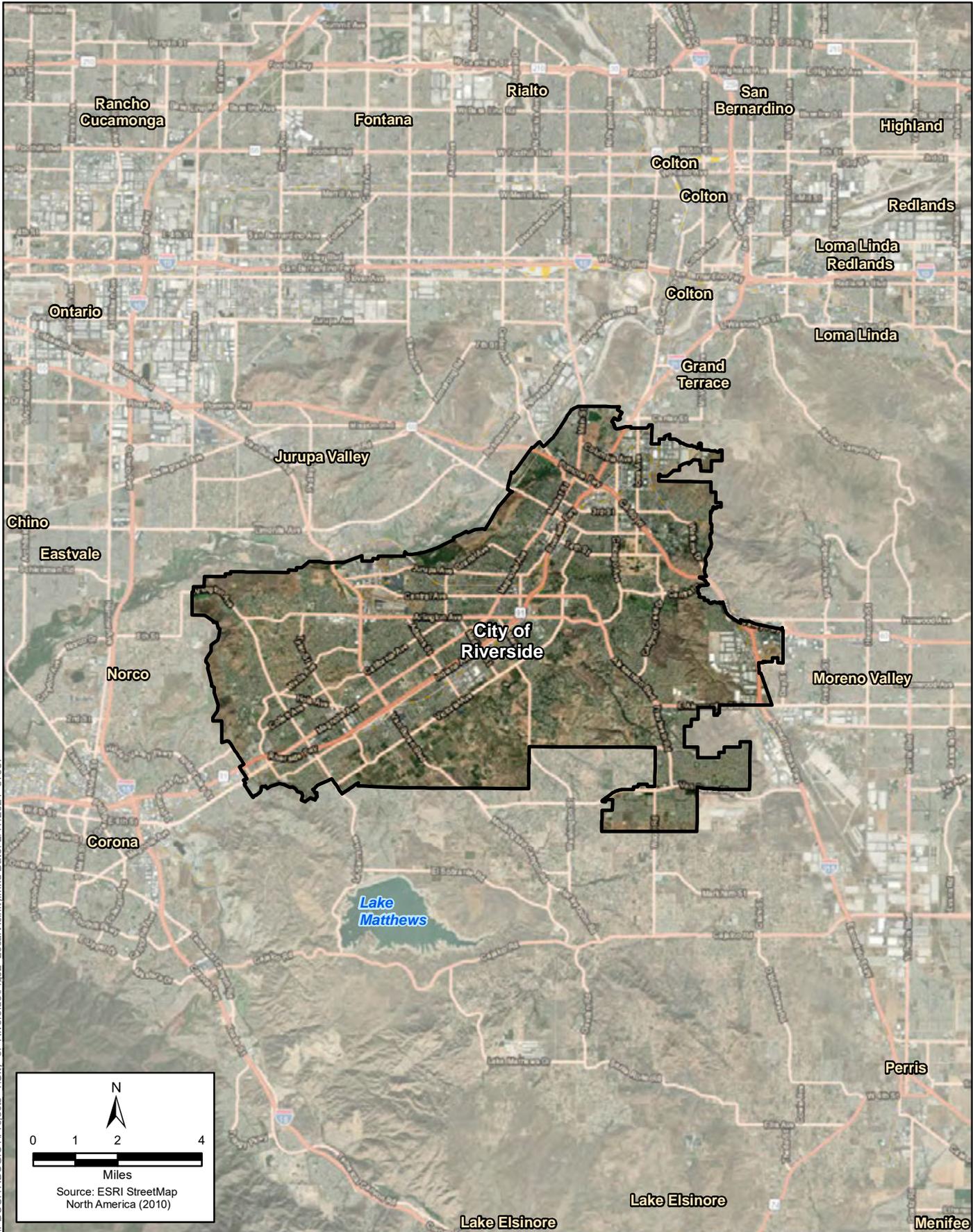
- City of Riverside. 2007. *Final Program Environmental Impact Report for the City of Riverside General Plan and Supporting Documents*. November. Available: <https://riversideca.gov/cedd/planning/city-plans/general-plan-0>.
- . 2018. *General Plan Housing Element*. June 19. Available: [https://riversideca.gov/cedd/sites/riversideca.gov.chedd/files/pdf/planning/general-plan/Housing%20Element\\_Adopted%2006-19-18\\_Housing%20Policy%20Chapter%20only.pdf](https://riversideca.gov/cedd/sites/riversideca.gov.chedd/files/pdf/planning/general-plan/Housing%20Element_Adopted%2006-19-18_Housing%20Policy%20Chapter%20only.pdf). Accessed January 2021.
- . 2021. GIS data.
- City of Riverside Public Works Department. 2007. *Urban Forestry Policy Manual*. November. Available: <https://www.riversideca.gov/PDF2/Urban-Forestry-Policy.pdf>.
- Department of Finance. 2020. *Department of Finance. 2020. E-1 Population Estimates for Cities, Counties, and the State — January 1, 2019 and 2020*. May. Available: <https://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-1/>. Accessed January 2021.
- SCAG. 2020. *SoCal Connect Demographics and Growth Forecasts*. September 3. Available: [https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial\\_demographics-and-growth-forecast.pdf?1606001579](https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial_demographics-and-growth-forecast.pdf?1606001579). Accessed January 2021.
- SCAQMD. 2016. *National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin*. February. Available: <https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=2>. Accessed January 2021.
- U.S. Environmental Protection Agency. 2020. *Nonattainment Areas for Criteria Pollutants (Green Book)*. Updated December 31, 2020. Available: <https://www.epa.gov/green-book>. Accessed January 2021.





\\PDC\ITRDS\GIS\1\Projects - 1\City of Riverside\Fig01\_Regional\_Vicinity.mxd Date: 2/17/2021 37937

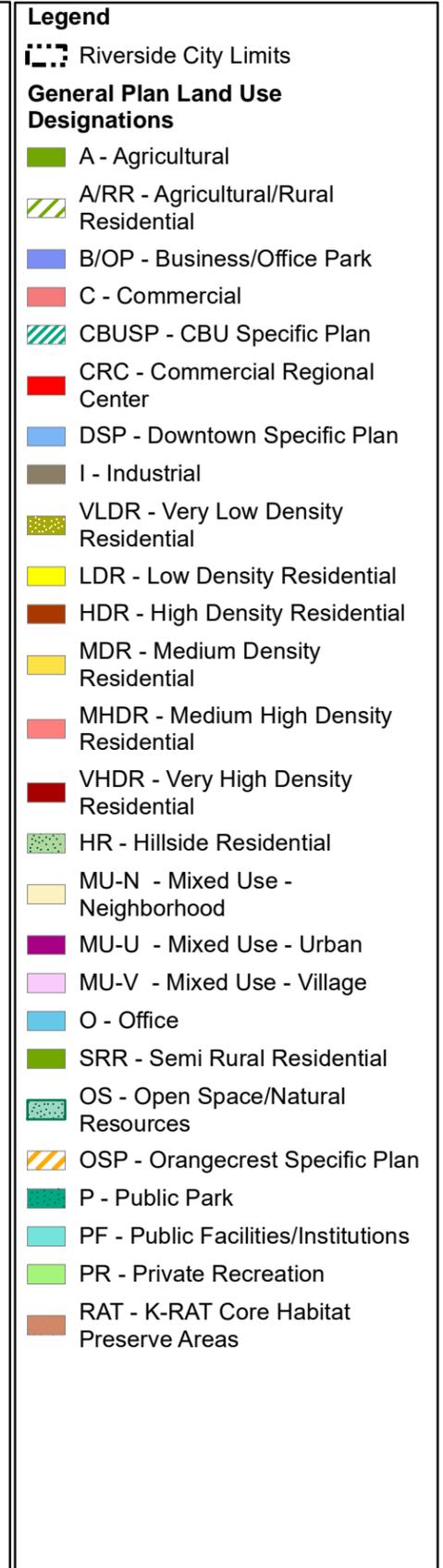
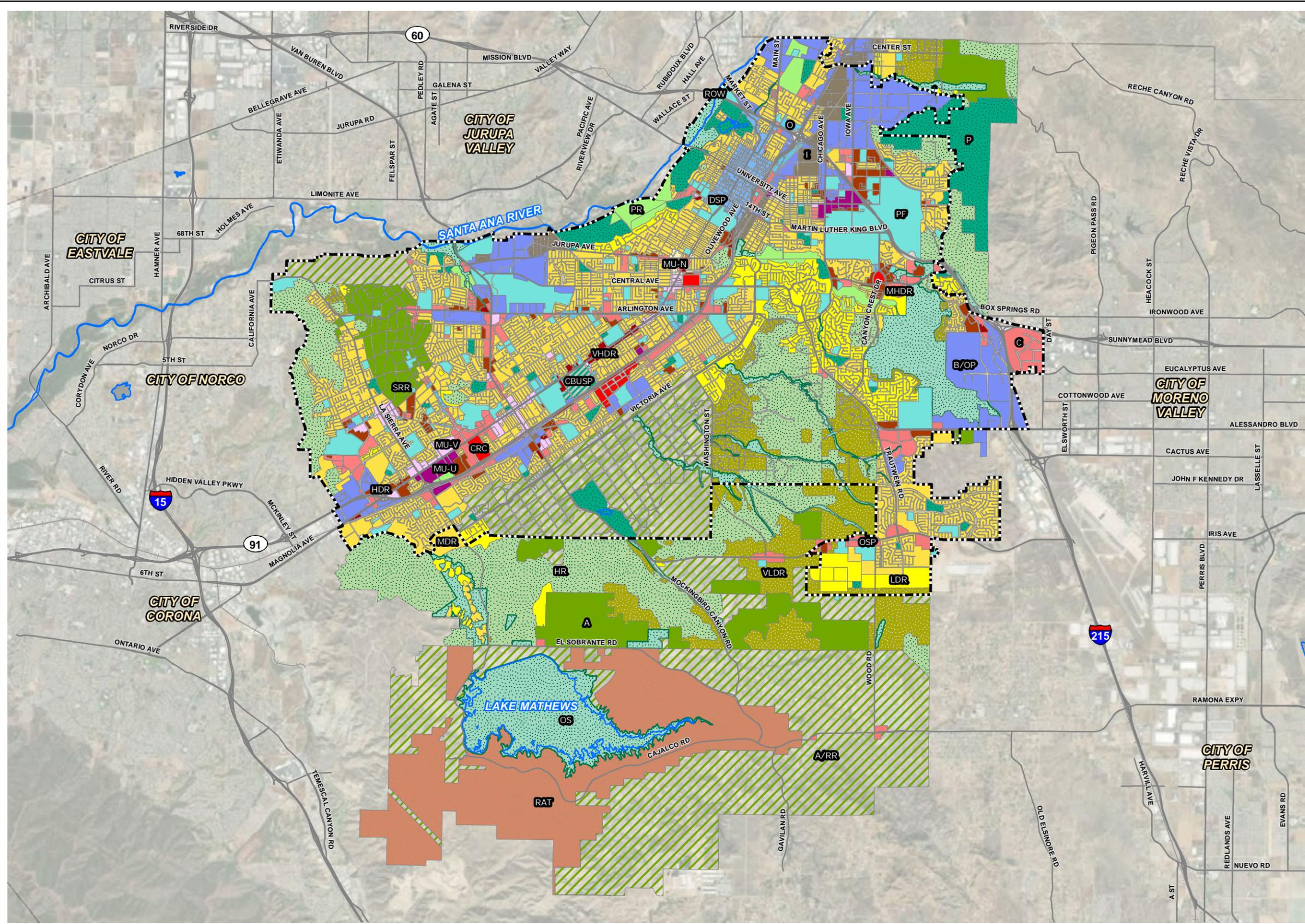
**Figure 1**  
**Regional Vicinity Map**



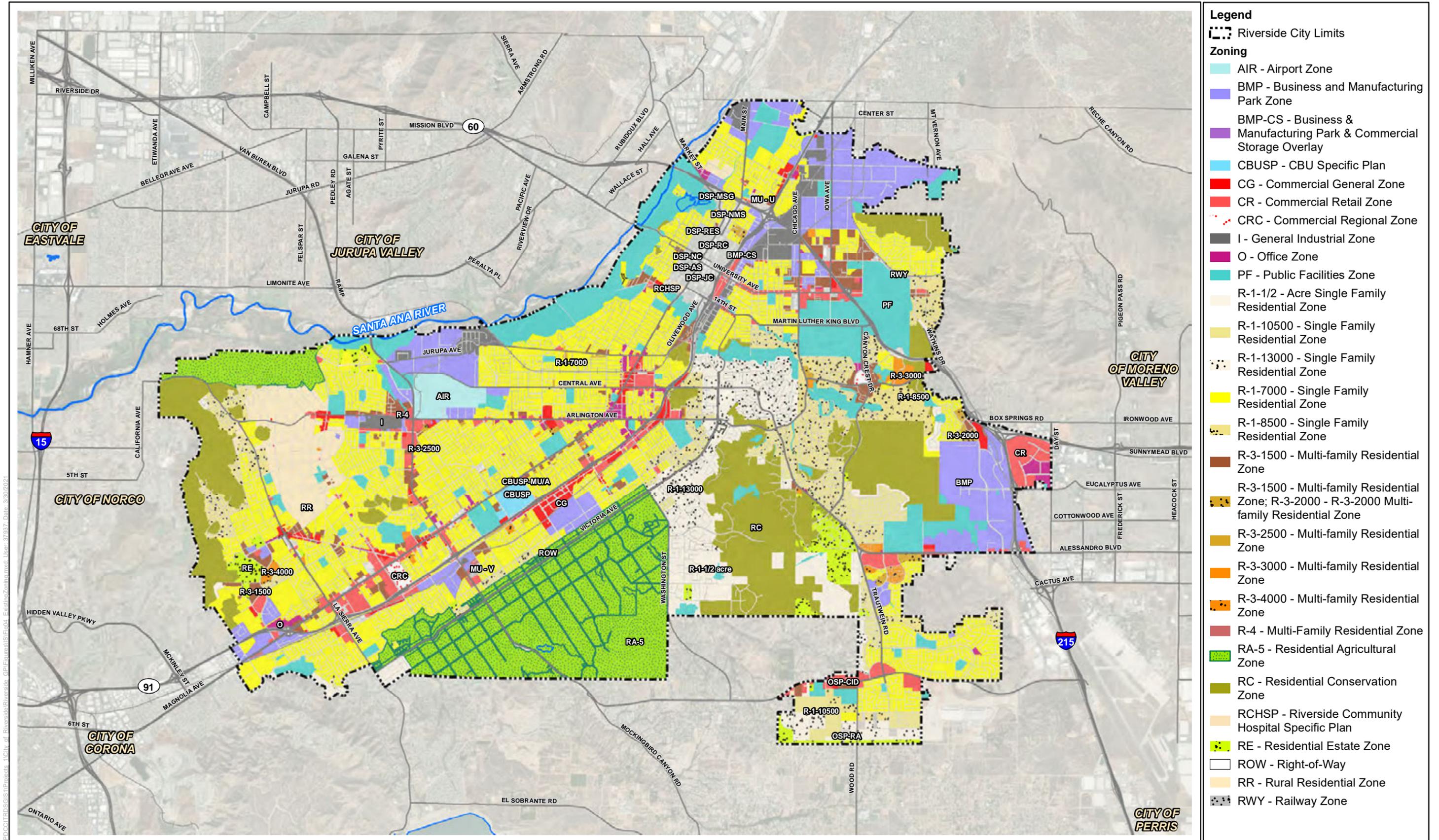
\\PDC\ITRDS\GIS\1\Projects\_1\City of Riverside\Fig02\_LocalVicinity.mxd Date: 2/17/2021 37937

**Figure 2**  
**Local Vicinity Map**

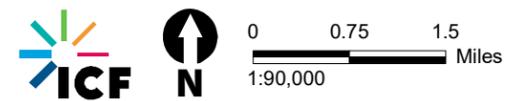
\\PDC\ITRDSGIS\1\Projects\_1\City of Riverside\Riverside\_GeneralPlan\_LandUse.mxd; User: 37937; Date: 3/30/2021



**Figure 3**  
**General Plan Land Use Designations**  
**Riverside General Plan Update**

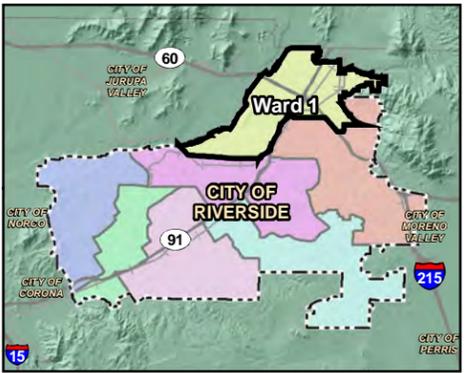
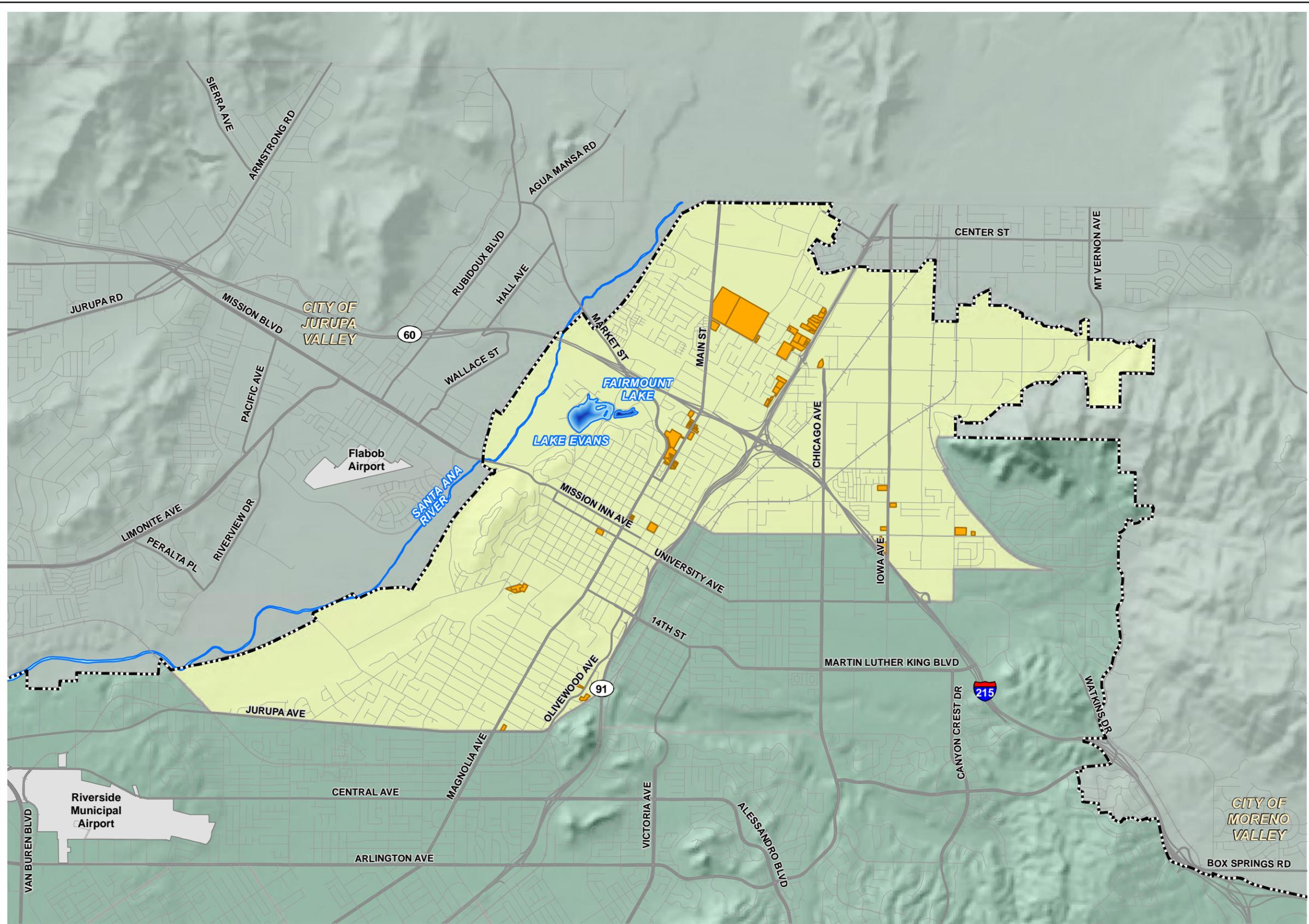


- Legend**
- Riverside City Limits
  - Zoning**
  - AIR - Airport Zone
  - BMP - Business and Manufacturing Park Zone
  - BMP-CS - Business & Manufacturing Park & Commercial Storage Overlay
  - CBUSP - CBU Specific Plan
  - CG - Commercial General Zone
  - CR - Commercial Retail Zone
  - CRC - Commercial Regional Zone
  - I - General Industrial Zone
  - O - Office Zone
  - PF - Public Facilities Zone
  - R-1-1/2 - Acre Single Family Residential Zone
  - R-1-10500 - Single Family Residential Zone
  - R-1-13000 - Single Family Residential Zone
  - R-1-7000 - Single Family Residential Zone
  - R-1-8500 - Single Family Residential Zone
  - R-1-8500 - Single Family Residential Zone
  - R-3-1500 - Multi-family Residential Zone
  - R-3-1500 - Multi-family Residential Zone; R-3-2000 - R-3-2000 Multi-family Residential Zone
  - R-3-2500 - Multi-family Residential Zone
  - R-3-3000 - Multi-family Residential Zone
  - R-3-4000 - Multi-family Residential Zone
  - R-4 - Multi-Family Residential Zone
  - RA-5 - Residential Agricultural Zone
  - RC - Residential Conservation Zone
  - RCHSP - Riverside Community Hospital Specific Plan
  - RE - Residential Estate Zone
  - ROW - Right-of-Way
  - RR - Rural Residential Zone
  - RWY - Railway Zone

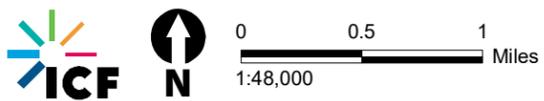


**Figure 4**  
**Existing Zoning**  
**Riverside General Plan Update**

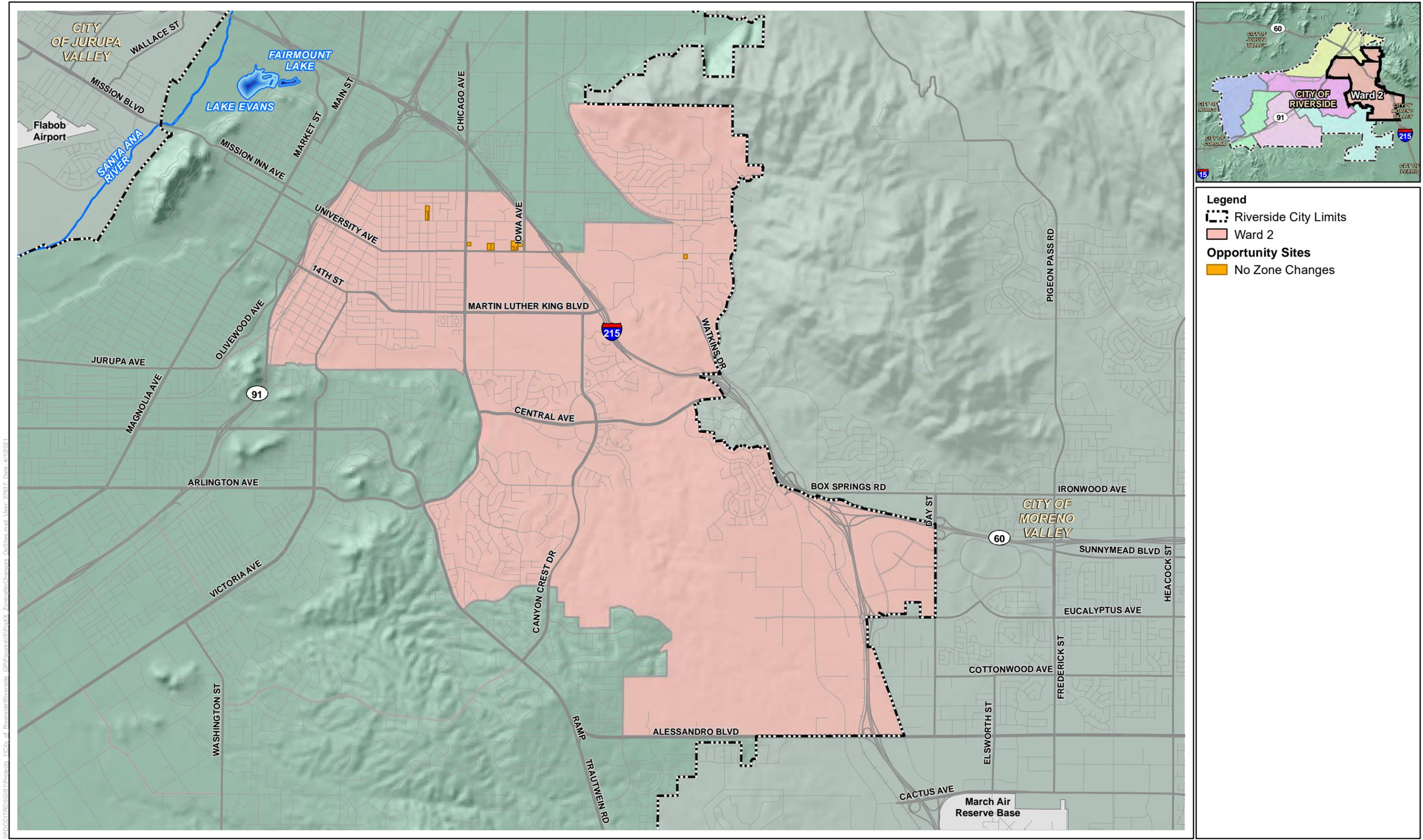
\\PDC\ITRDSGIS\Projects\_1\City of Riverside\Riverside\_GPI\Figures\Fig5\Fig5\_XX\_ZoningNoChanges\_OpSites.mxd User: 37937 Date: 4/11/2021



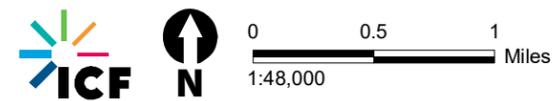
- Legend**
- Riverside City Limits
  - Ward 1
  - Opportunity Sites**
  - No Zone Changes



**Figure 5**  
**Ward 1 - Opportunity Sites with No Zoning Changes**  
**Riverside General Plan Update**



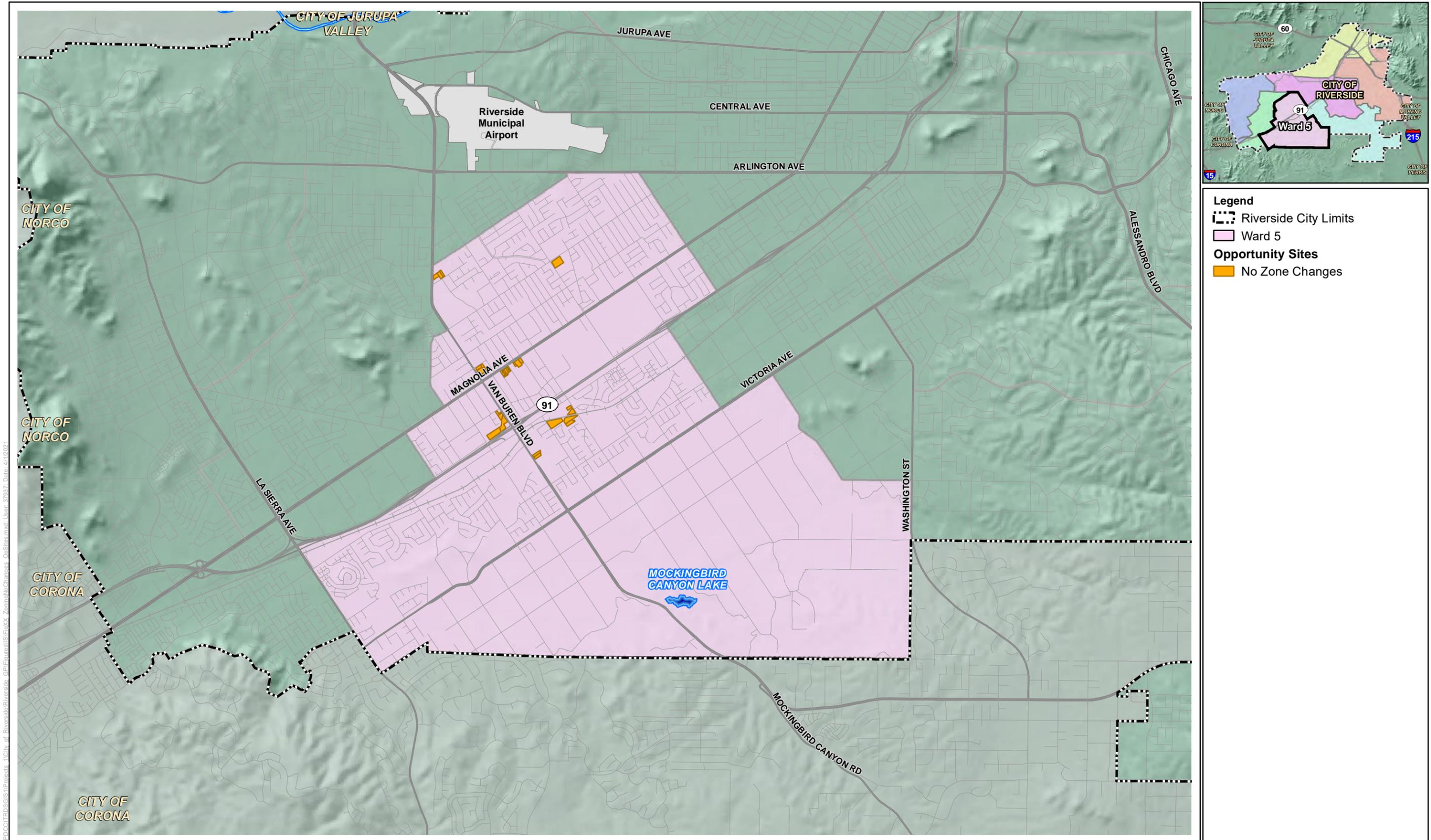
I:\Projects\11\Projects\11\City of Riverside\Riverside\_GeneralPlan\GIS\MapXX\_ZoningChanges\_OpSites.mxd User: 37937 Date: 4/11/2021



**Figure 6**  
**Ward 2 - Opportunity Sites with No Zoning Changes**  
**Riverside General Plan Update**



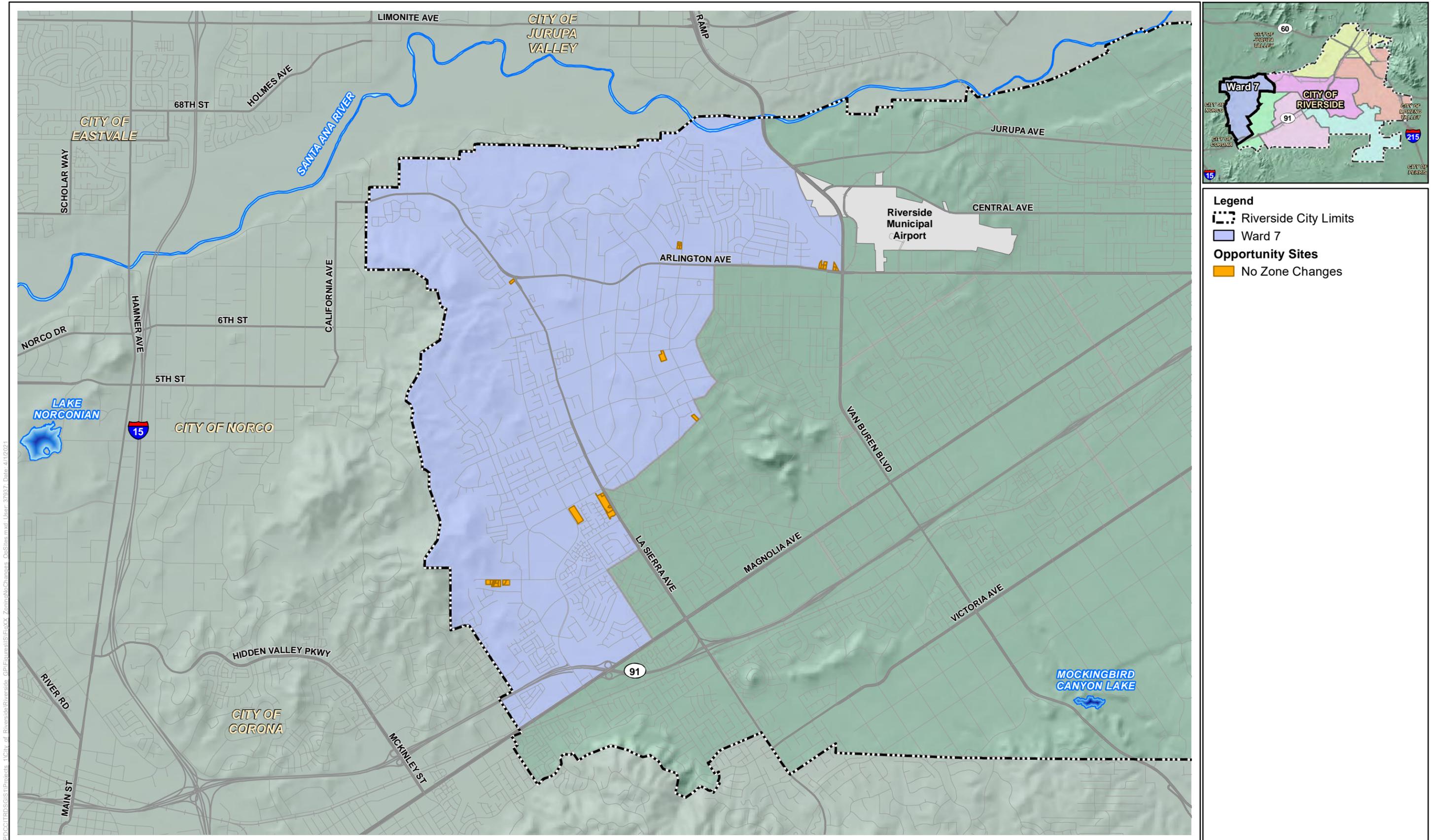




I:\Projects\GIS\Projects\1\City of Riverside\Riverside\_GeneralPlan\GIS\Figures\Fig9 - Opportunity Sites - No Zone Changes - OpSites.mxd - User: 37937 - Date: 4/11/2021

**Figure 9**  
**Ward 5 - Opportunity Sites with No Zoning Changes**  
**Riverside General Plan Update**

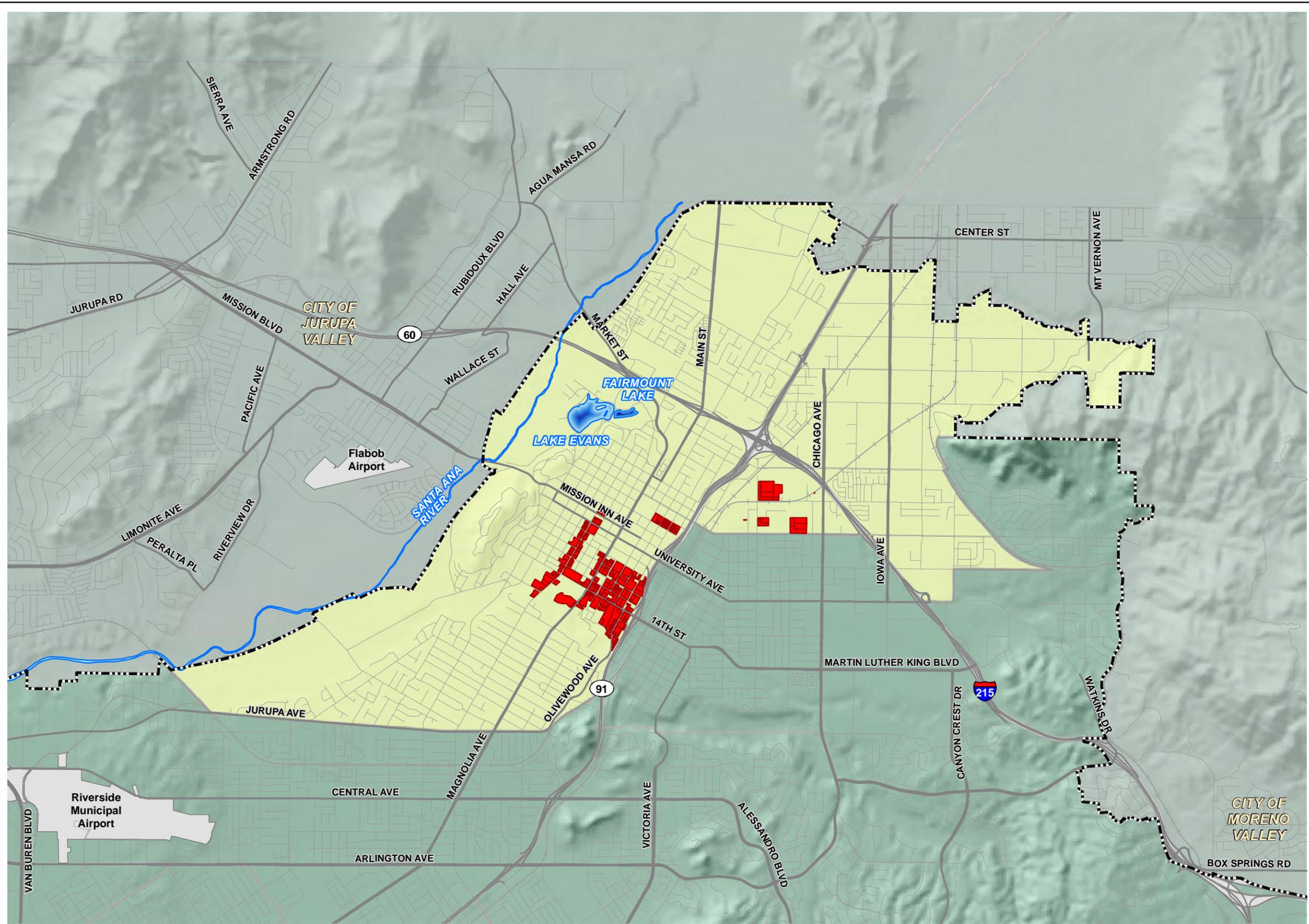




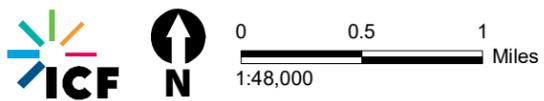
IPDCCITRDSGIS1\Projects\_1\City of Riverside\Riverside\_GPI\Figures\GIS\FracXX\_ZoningNoChanges\_OpSites.mxd User: 37937 Date: 4/11/2021

**Figure 11**  
**Ward 7 - Opportunity Sites with No Zoning Changes**  
**Riverside General Plan Update**

\\PDC\ITRDSGIS\Projects\_1\City of Riverside\Riverside\_GPI\Figures\Fig12\ZoningChanges\_OpSites.mxd - User: 37937 - Date: 4/11/2021

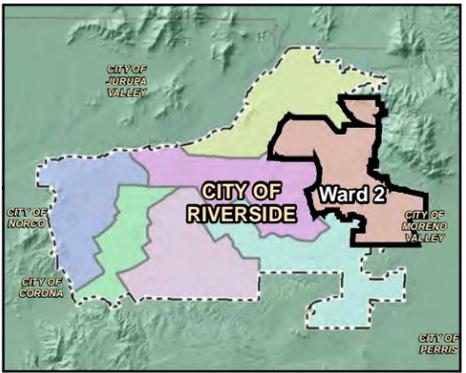
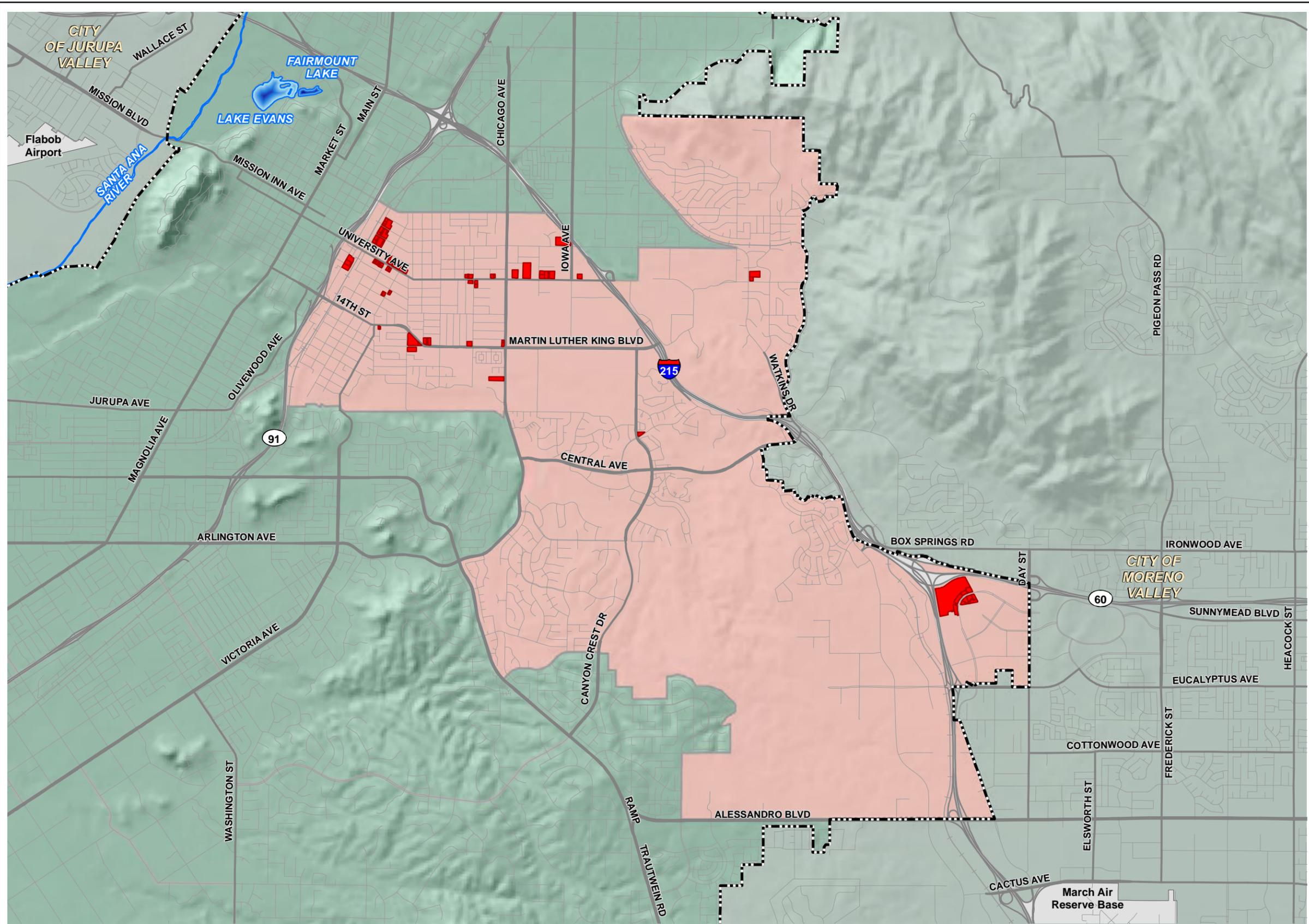


- Legend**
- Riverside City Limits
  - Ward 1
  - Opportunity Sites**
  - Zone Changes

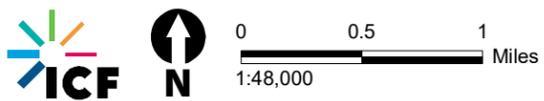


**Figure 12**  
**Ward 1 - Opportunity Sites with Zoning Changes**  
**Riverside General Plan Update**

\\PDC\ITRDSGIS\Projects\_1\City of Riverside\Riverside\_GIS\Figures\Fig13\ZoningChanges\_OpSites.mxd - User: 37937 - Date: 4/1/2021

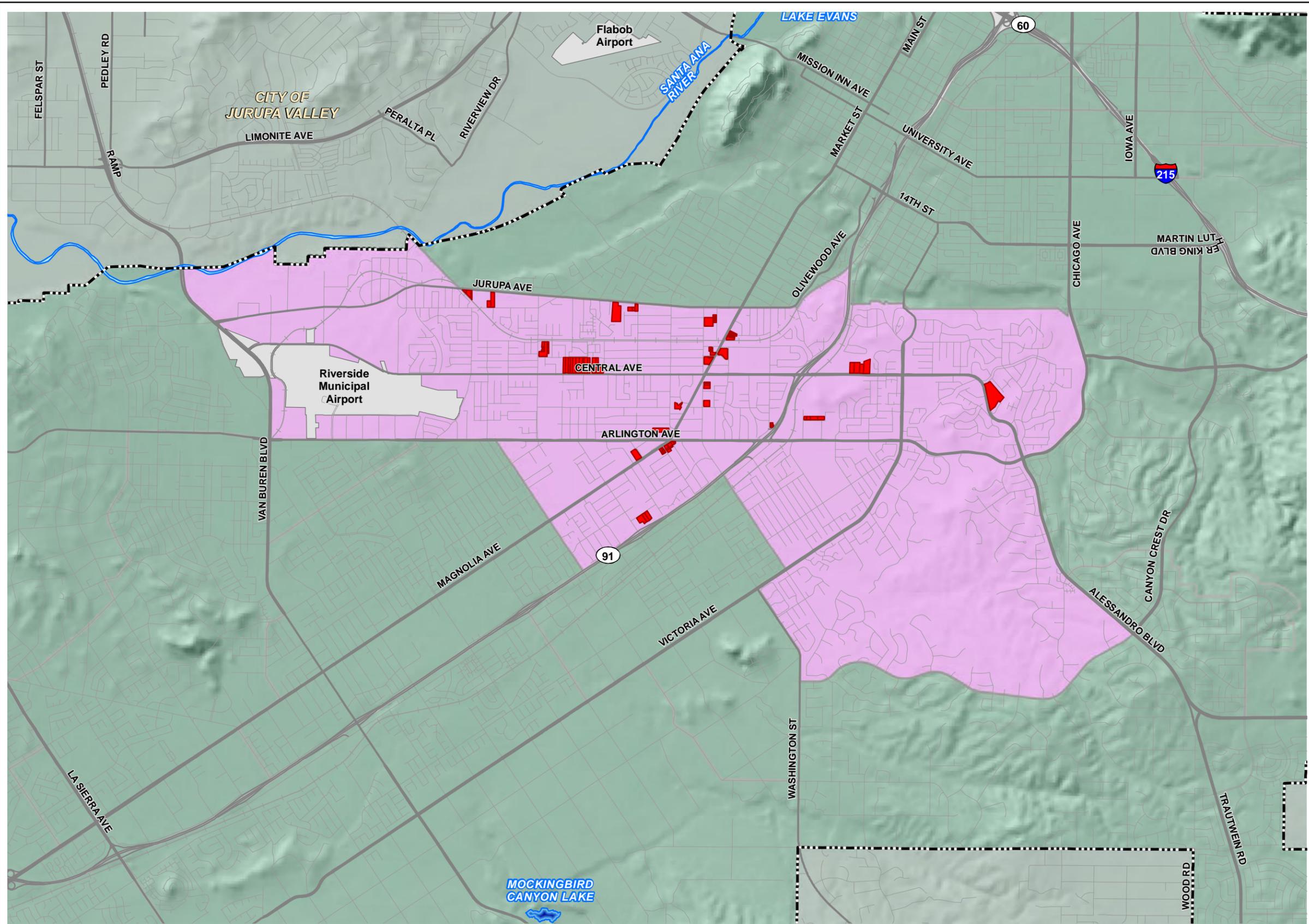


- Legend**
- Riverside City Limits
  - Ward 2
  - Opportunity Sites**
  - Zone Changes

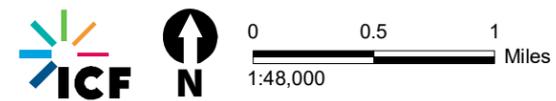


**Figure 13**  
**Ward 2 - Opportunity Sites with Zoning Changes**  
 Riverside General Plan Update

\\PDC\ITRDSGIS\Projects\_1\City of Riverside\Riverside\_GIS\Figures\GIS\FigXX\_ZoningChanges\_OpSites.mxd - User: 37937 - Date: 4/1/2021

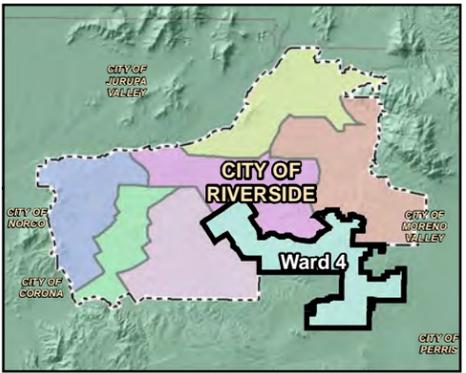
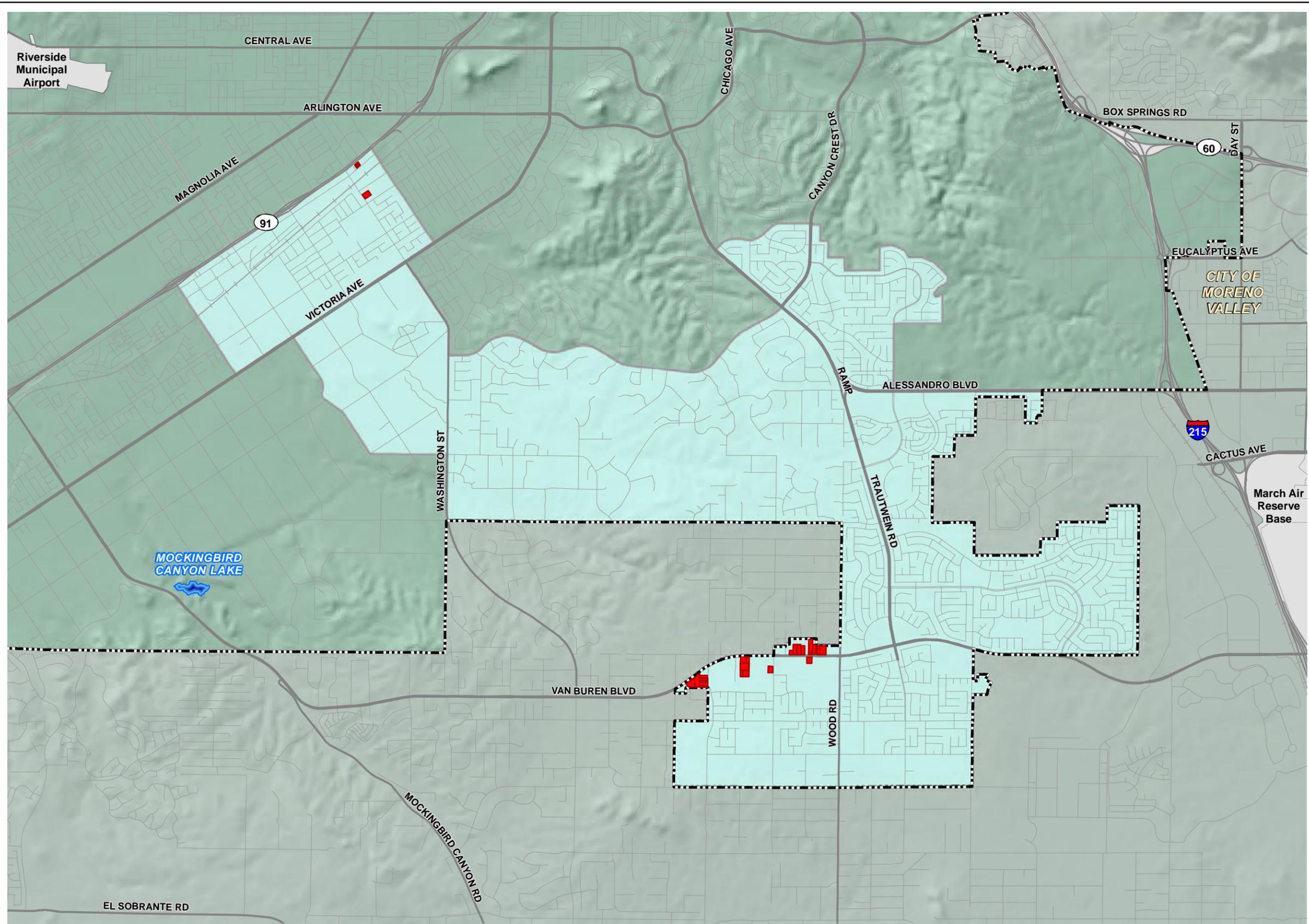


- Legend**
- Riverside City Limits
  - Ward 3
  - Opportunity Sites**
  - Zone Changes

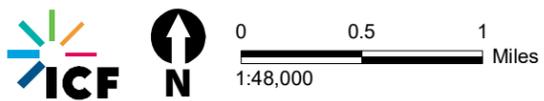


**Figure 14**  
**Ward 3 - Opportunity Sites with Zoning Changes**  
**Riverside General Plan Update**

\\PDC\ITRDS\GIS\1\Projects\_1\City of Riverside\Riverside\_GIS\Figures\IS\FracXX\_ZoningChanges\_OpSites.mxd - User: 37937 - Date: 4/1/2021

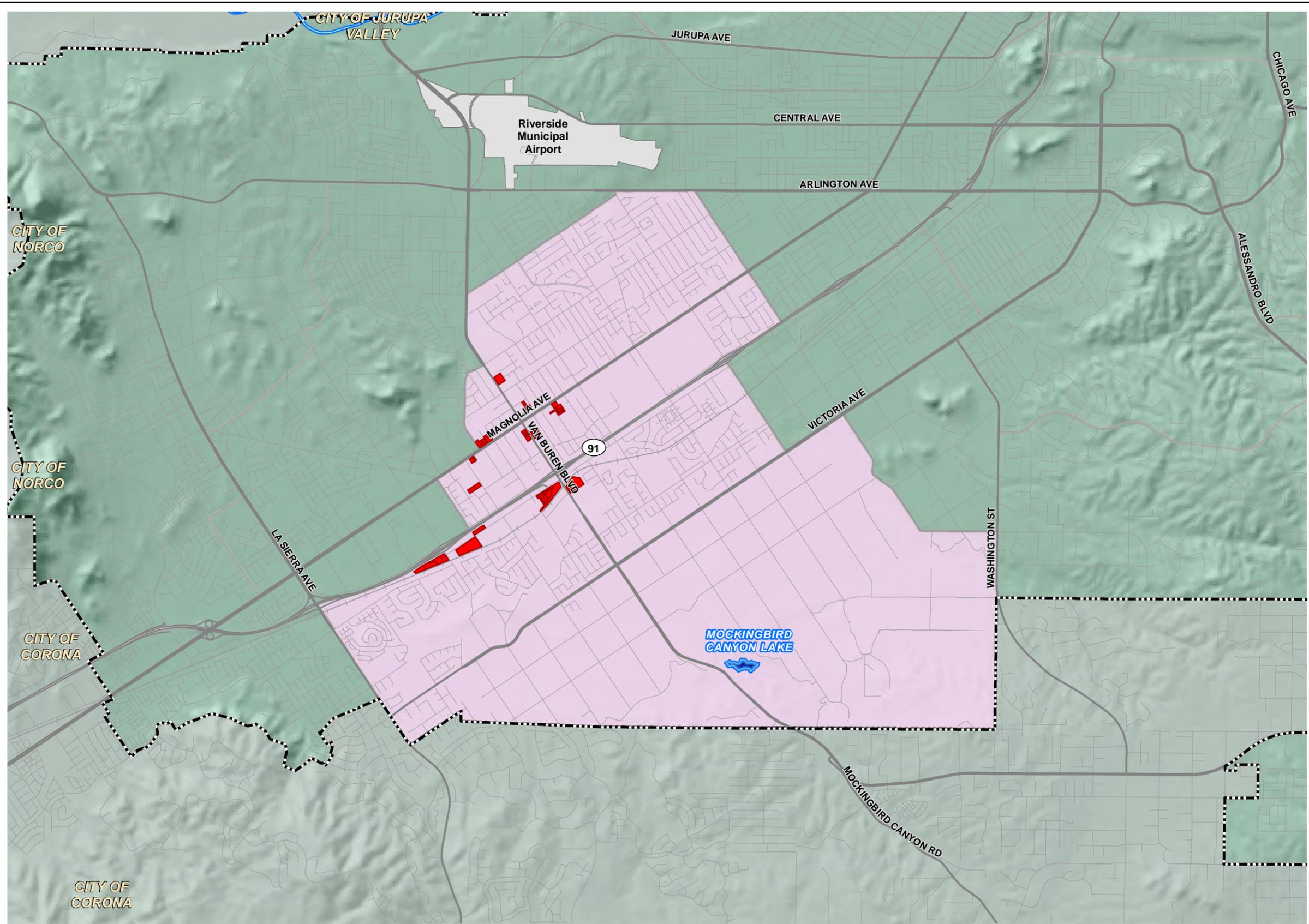


- Legend**
- Riverside City Limits
  - Ward 4
  - Opportunity Sites**
  - Zone Changes

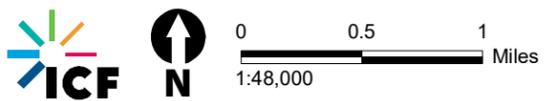


**Figure 15**  
**Ward 4 - Opportunity Sites with Zoning Changes**  
**Riverside General Plan Update**

\\PDC\ITRDSGIS\Projects\_1\City of Riverside\Riverside\_GIS\Figures\Fig16XX\_ZoningChanges\_OpSites.mxd - User: 37937 - Date: 4/1/2021

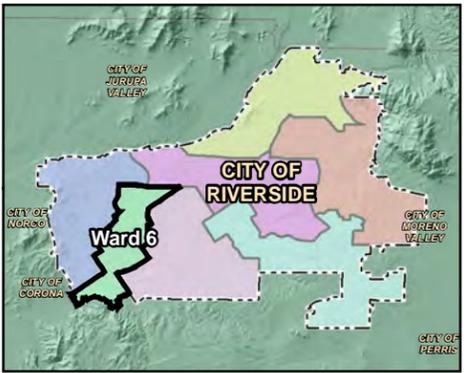
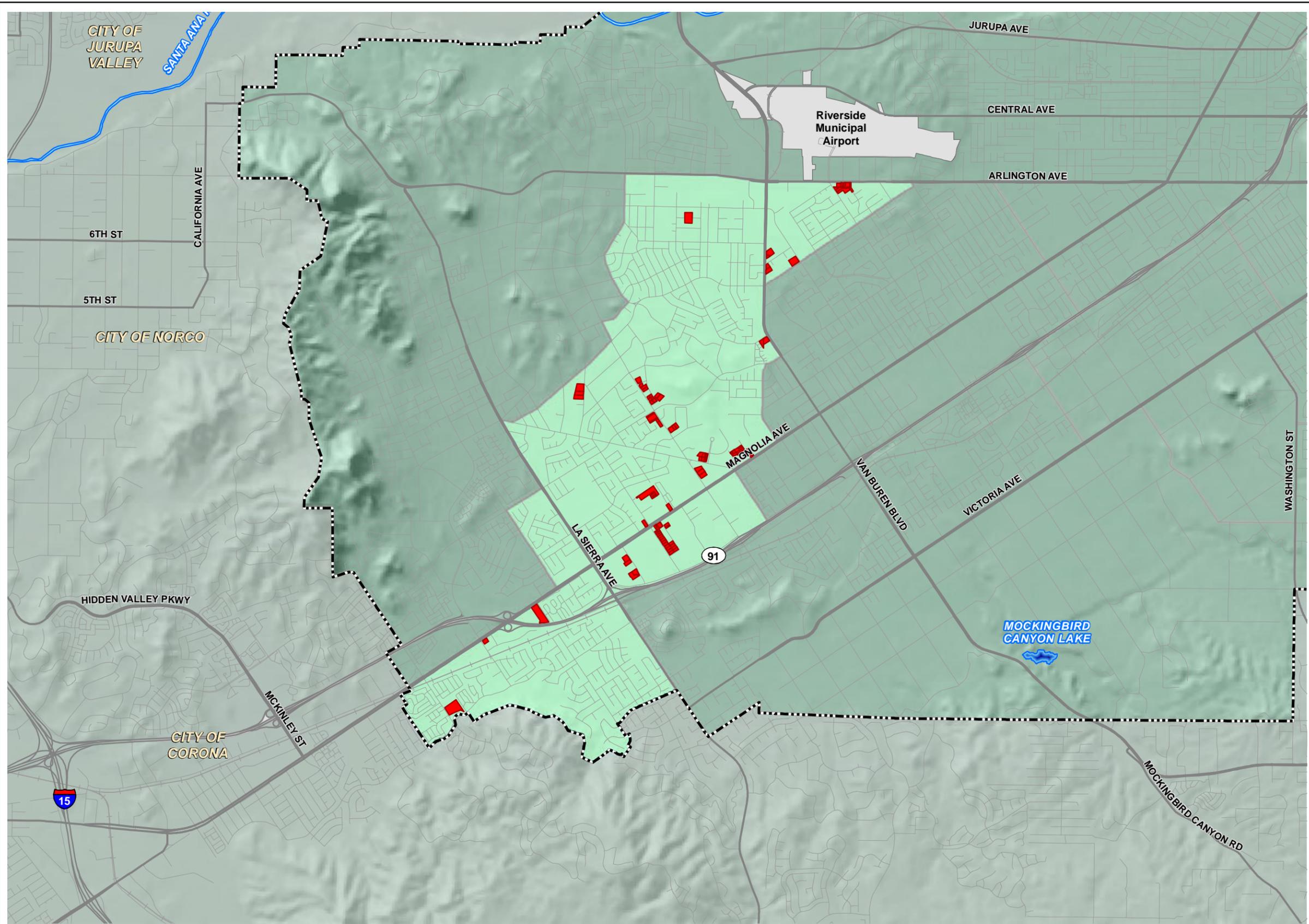


- Legend**
- Riverside City Limits
  - Ward 5
  - Opportunity Sites**
  - Zone Changes

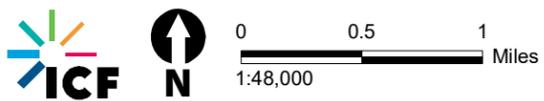


**Figure 16**  
**Ward 5 - Opportunity Sites with Zoning Changes**  
**Riverside General Plan Update**

\\PDC\ITRDSGIS\Projects\_1\City of Riverside\Riverside\_GIS\Figures\GIS\FracXX\_ZoningChanges\_OpSites.mxd - User: 37937 - Date: 4/1/2021

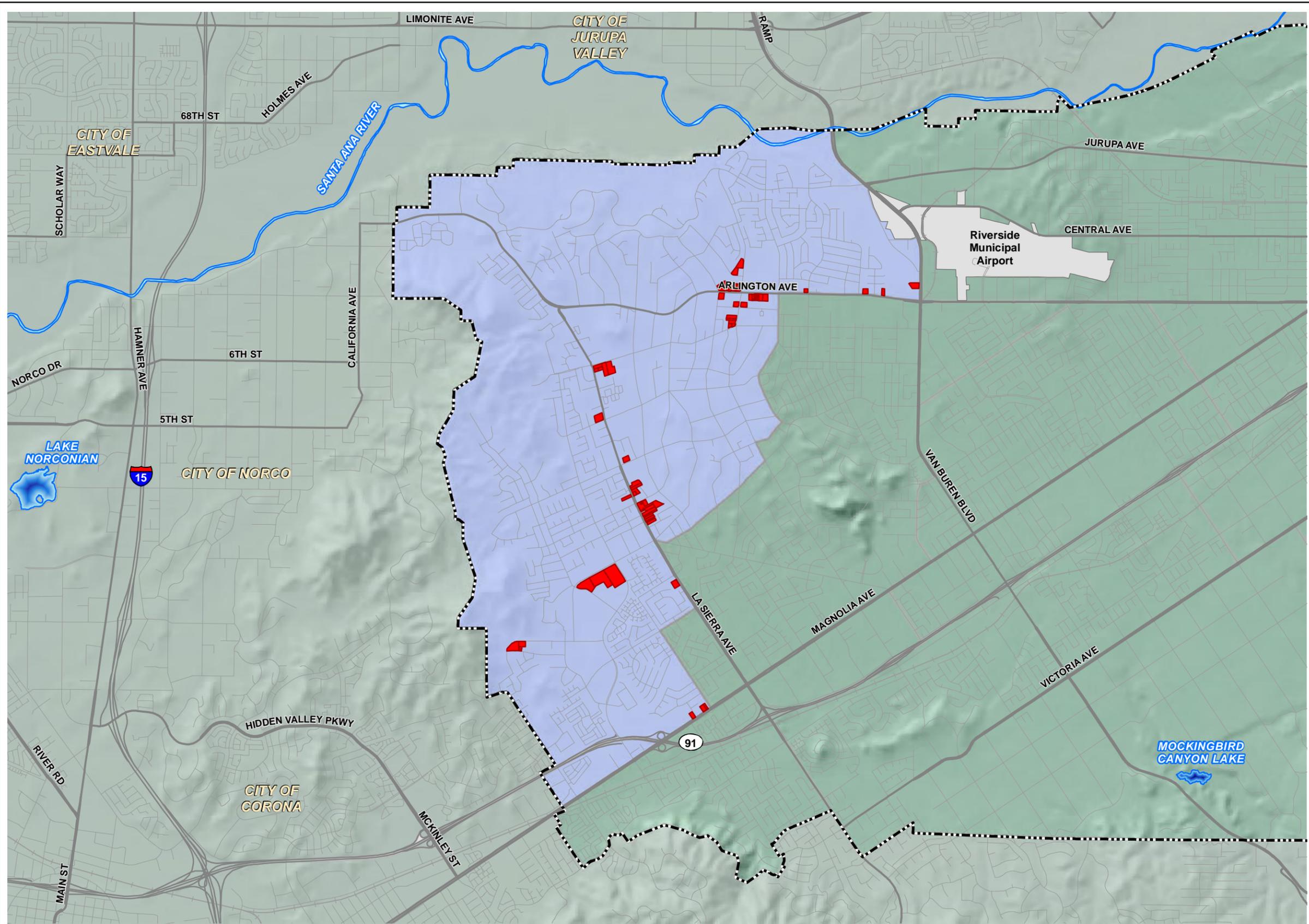


- Legend**
- Riverside City Limits
  - Ward 6
  - Opportunity Sites**
  - Zone Changes

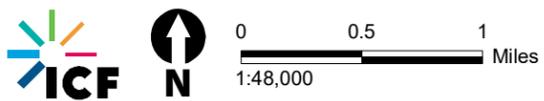


**Figure 17**  
**Ward 6 - Opportunity Sites with Zoning Changes**  
**Riverside General Plan Update**

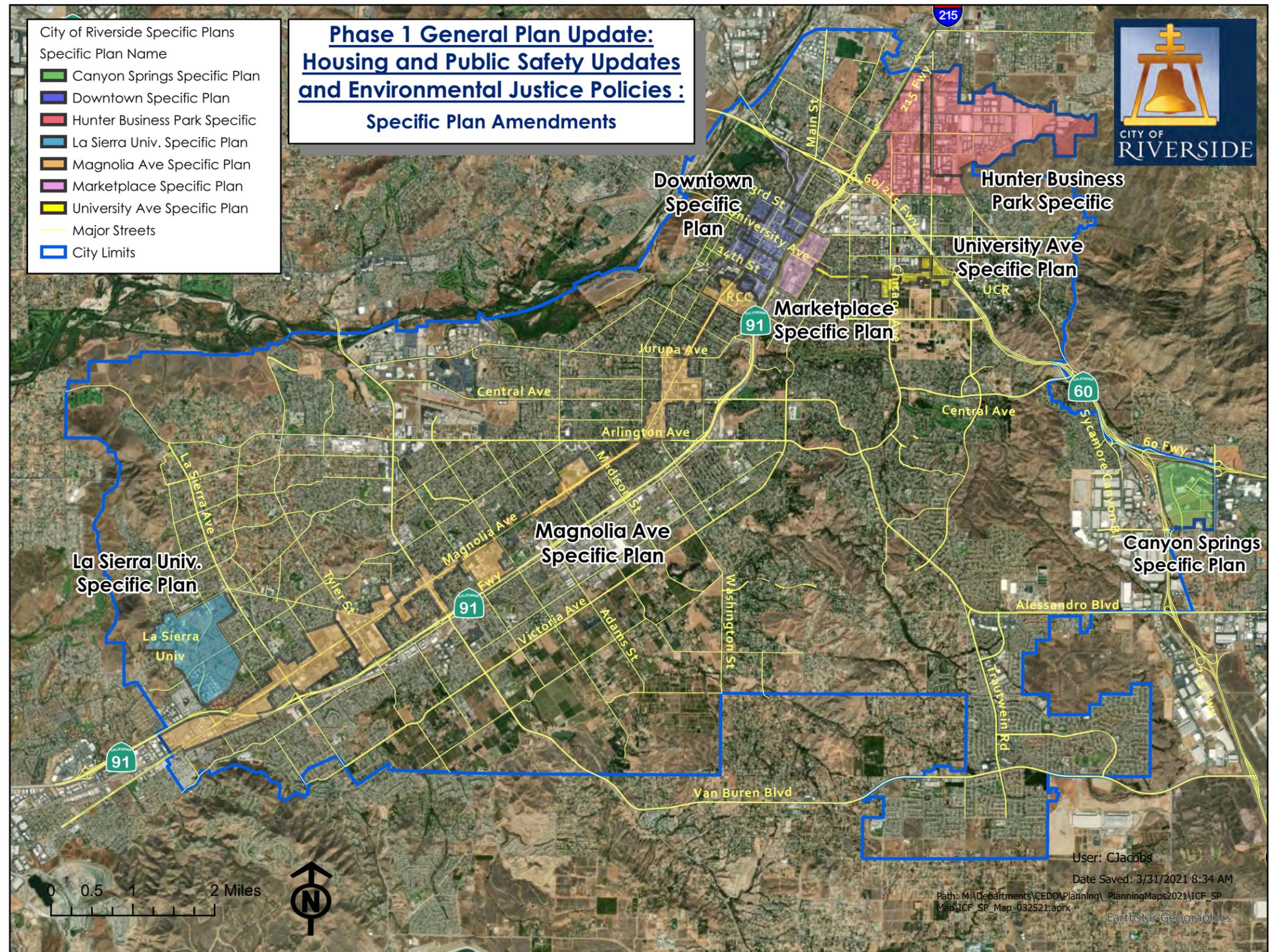
\\PDC\ITRDSGIS\Projects\_1\City of Riverside\Riverside\_GIS\Figures\GIS\FracXX\_ZoningChanges\_OpSites.mxd - User: 37937 - Date: 4/1/2021



- Legend**
- Riverside City Limits
  - Ward 7
  - Opportunity Sites**
  - Zone Changes



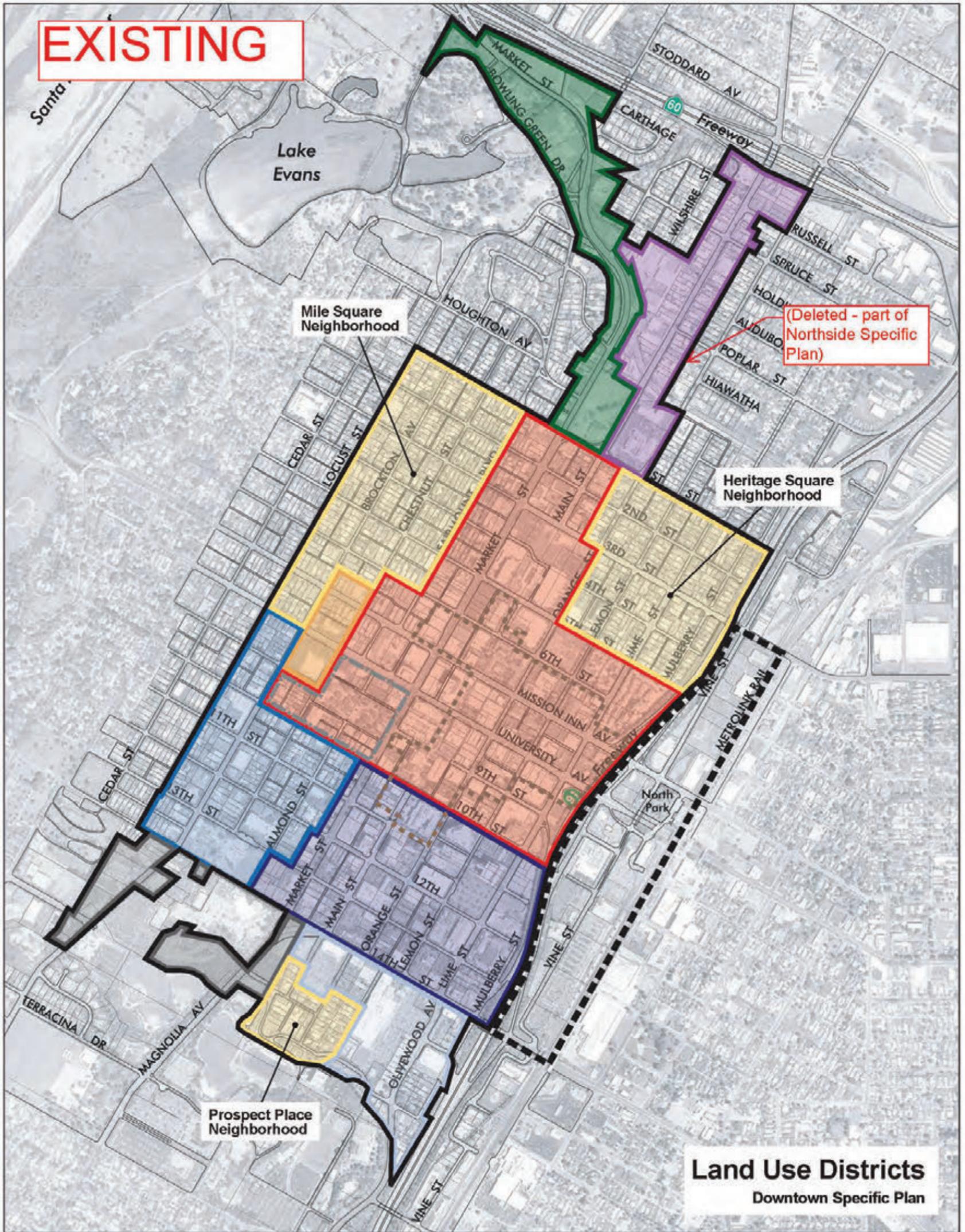
**Figure 18**  
**Ward 7 - Opportunity Sites with Zoning Changes**  
**Riverside General Plan Update**



I:\Projects\11\City\_of\_Riverside\Riverside\_GPA\Figures\151



**Figure 19**  
**Specific Plan Areas With Zoning Changes**  
**Riverside General Plan Update**

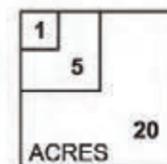


**LEGEND**

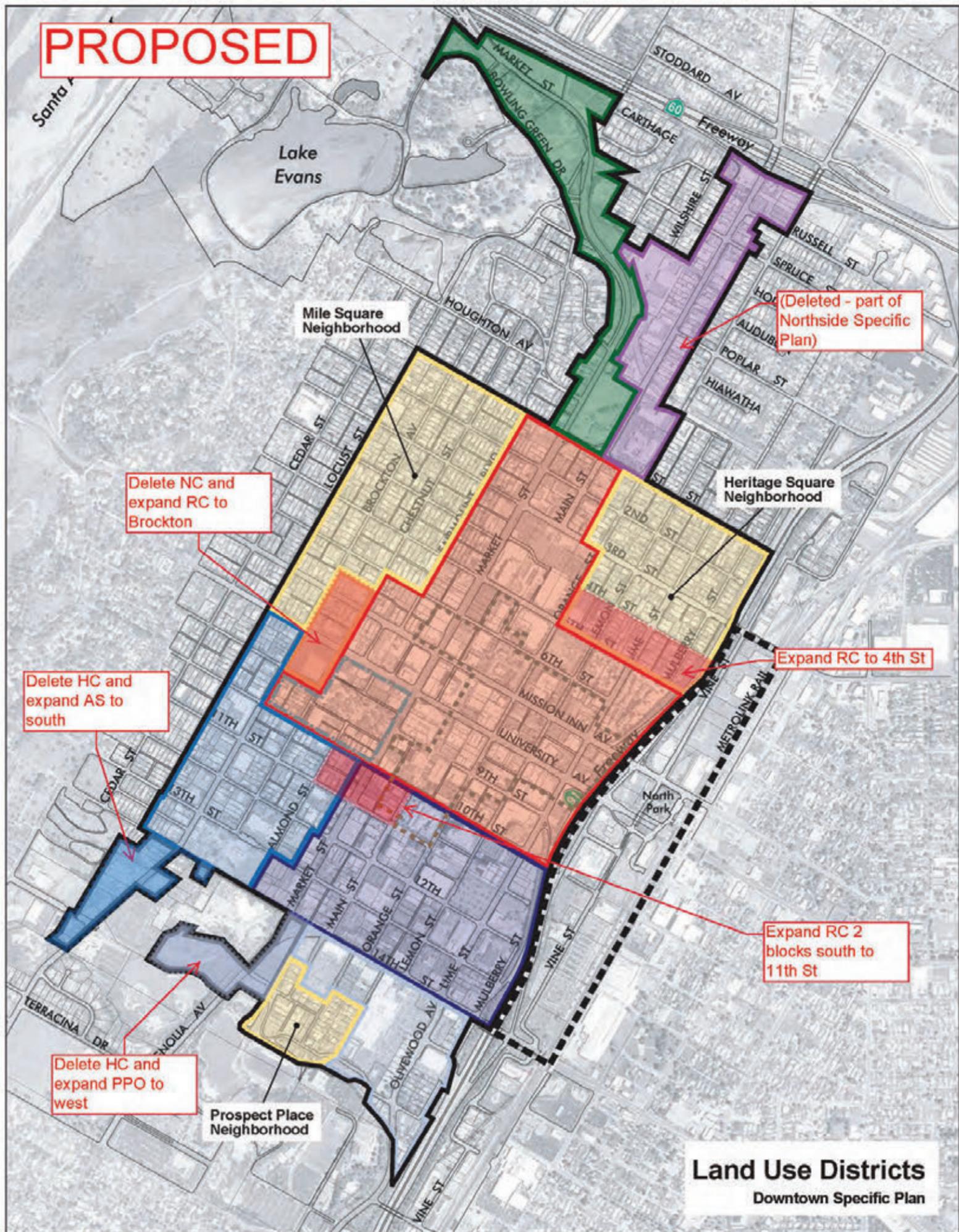
**LAND USE DISTRICTS**

- Raincross
- Justice Center
- Almond Street
- Prospect Place Office
- Health Care
- North Main Street  
Specialty Services
- Market Street Gateway
- Residential
- Neighborhood Commercial

- Downtown Specific Plan Boundary (Revised May 2014)
- Mission Inn Historic District  
(area of special development standards)
- Master Plan Area for the  
Riverside School for the Arts
- Riverside Marketplace



**Figure 20**  
Specific Plan Areas with Zoning Changes  
Riverside General Plan Update



**LEGEND**

- |                                      |   |
|--------------------------------------|---|
| <b>LAND USE DISTRICTS</b>            | — Downtown Specific Plan Boundary (Revised May 2014)                  |
| Raincross                            | Mission Inn Historic District (area of special development standards) |
| Justice Center                       | Master Plan Area for the Riverside School for the Arts                |
| Almond Street                        | Riverside Marketplace   |
| Prospect Place Office                |   |
| Health Care                          |   |
| North Main Street Specialty Services |   |
| Market Street Gateway                |   |
| Residential                          |   |
| Neighborhood Commercial              |   |

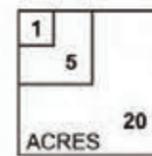
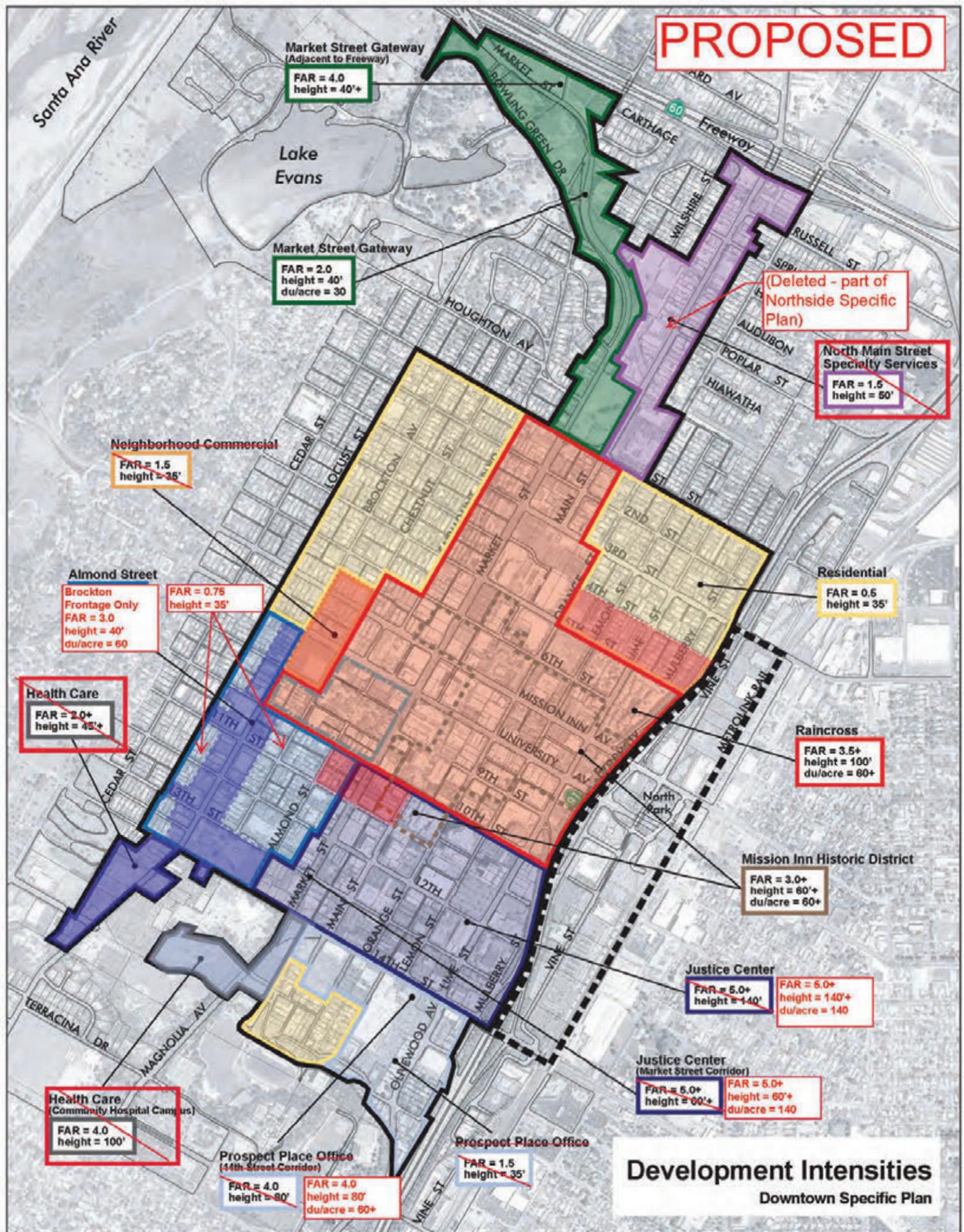


Figure 21  
Specific Plan Areas with Zoning Changes  
Riverside General Plan Update



**PROPOSED**

(Deleted - part of Northside Specific Plan)

**North Main Street Specialty Services**  
FAR = 1.5  
height = 50'

**Neighborhood Commercial**  
FAR = 1.5  
height = 35'

**Almond Street Brockton Frontage Only**  
FAR = 3.0  
height = 40'  
du/acre = 60

FAR = 0.75  
height = 35'

**Health Care**  
FAR = 2.0+  
height = 45'+

**Residential**  
FAR = 0.5  
height = 35'

**Raincross**  
FAR = 3.5+  
height = 100'  
du/acre = 80+

**Mission Inn Historic District**  
FAR = 3.0+  
height = 60'+  
du/acre = 60+

**Justice Center**  
FAR = 5.0+  
height = 140'+  
du/acre = 140

**Justice Center (Market Street Corridor)**  
FAR = 5.0+  
height = 60'+  
du/acre = 140

**Health Care (Community Hospital Campus)**  
FAR = 4.0  
height = 100'

**Prospect Place Office (14th Street Corridor)**  
FAR = 4.0  
height = 80'  
du/acre = 60+

**Prospect Place Office**  
FAR = 1.5  
height = 35'

**Development Intensities**  
Downtown Specific Plan

**LEGEND**

**LAND USE DISTRICTS**

- Raincross
- Justice Center
- Almond Street
- Prospect Place Office
- Health Care
- North Main Street Specialty Services
- Market Street Gateway
- Residential
- Neighborhood Commercial

— Downtown Specific Plan Boundary (Revised May 2014)

■ Mission Inn Historic District (area of special development standards)

--- Master Plan Area for the Riverside School for the Arts

■ Riverside Marketplace

**FAR** Maximum Floor Area Ratio Permitted  
**height** Maximum Height Permitted  
**du/acre** Maximum Dwelling Units per Acre Permitted  
**+** Intensity or height may be increased with additional approvals

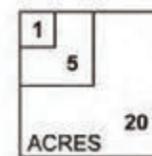


Figure 22  
Specific Plan Areas with Zoning Changes  
Riverside General Plan Update



CITY OF  
**RIVERSIDE**

**COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT PLANNING DIVISION**

## **INITIAL STUDY**

**Case No. PR-2021-001058**

**Riverside Housing and Public Safety Element Updates and  
Environmental Justice Policies Project**

# Contents

---

|   | Page     |
|---|----------|
| <b>Environmental Factors Potentially Affected .....</b> | <b>1</b> |
| Determination .....                                     | 1        |
| Evaluation of Environmental Impacts .....               | 2        |
| I. Aesthetics .....                                     | 4        |
| Affected Environment.....                               | 4        |
| Discussion.....   | 5        |
| II. Agricultural and Forestry Resources .....           | 7        |
| Affected Environment.....                               | 7        |
| Discussion.....   | 8        |
| III. Air Quality.....                                   | 10       |
| Affected Environment.....                               | 10       |
| Discussion.....   | 10       |
| IV. Biological Resources.....                           | 12       |
| Affected Environment.....                               | 12       |
| Discussion.....   | 13       |
| V. Cultural Resources.....                              | 17       |
| Affected Environment.....                               | 17       |
| Discussion.....   | 18       |
| VI. Energy .....  | 20       |
| Affected Environment.....                               | 20       |
| Discussion.....   | 21       |
| VII. Geology, Soils, and Paleontological Resources..... | 26       |
| Affected Environment.....                               | 26       |
| Discussion.....   | 30       |
| VIII. Greenhouse Gas Emissions .....                    | 35       |
| Affected Environment.....                               | 35       |
| Discussion.....   | 35       |
| IX. Hazards and Hazardous Materials.....                | 37       |
| Affected Environment.....                               | 37       |
| Discussion.....   | 38       |
| X. Hydrology and Water Quality .....                    | 42       |
| Affected Environment.....                               | 42       |
| Discussion.....   | 44       |
| XI. Land Use and Planning .....                         | 51       |
| Affected Environment.....                               | 51       |
| Discussion.....   | 51       |

Riverside Housing and Public Safety Element Updates and  
Environmental Justice Policies Project

|  |           |
|--|-----------|
| XII. Mineral Resources .....                             | 53        |
| Affected Environment .....                               | 53        |
| Discussion.....  | 53        |
| XIII. Noise.....   | 55        |
| Affected Environment .....                               | 55        |
| Discussion.....  | 56        |
| XIV. Population and Housing .....                        | 57        |
| Affected Environment .....                               | 57        |
| Discussion.....  | 58        |
| XV. Public Services .....                                | 59        |
| Affected Environment .....                               | 59        |
| Discussion.....  | 60        |
| XVI. Recreation .....                                    | 62        |
| Affected Environment .....                               | 62        |
| Discussion.....  | 62        |
| XVII. Transportation.....                                | 64        |
| Affected Environment .....                               | 64        |
| Discussion.....  | 65        |
| XVIII. Tribal Cultural Resources.....                    | 67        |
| Affected Environment .....                               | 67        |
| Discussion.....  | 68        |
| XIX. Utilities and Service Systems.....                  | 70        |
| Affected Environment .....                               | 70        |
| Discussion.....  | 71        |
| XX. Wildfire .....                                       | 73        |
| Affected Environment .....                               | 73        |
| Discussion.....  | 73        |
| XXI. Mandatory Findings of Significance.....             | 76        |
| Affected Environment .....                               | 76        |
| Discussion.....  | 76        |
| <b>References Cited .....</b>                            | <b>78</b> |
| I. Aesthetics .....                                      | 78        |
| II. Agricultural and Forestry Resources .....            | 78        |
| III. Air Quality .....                                   | 78        |
| IV. Biological Resources .....                           | 78        |
| V. Cultural Resources .....                              | 79        |
| VI. Energy .....   | 79        |
| VII. Geology, Soils, and Paleontological Resources ..... | 80        |
| VIII. Greenhouse Gas Emissions .....                     | 81        |

Riverside Housing and Public Safety Element Updates and  
Environmental Justice Policies Project

|   |           |
|---|-----------|
| IX. Hazards and Hazardous Materials .....     | 81        |
| X. Hydrology and Water Quality .....          | 81        |
| XI. Land Use and Planning .....               | 82        |
| XII. Mineral Resources .....                  | 82        |
| XIII. Noise.....                              | 82        |
| XIV. Population and Housing .....             | 83        |
| XV. Public Services .....                     | 83        |
| XVI. Recreation.....                          | 83        |
| XVII. Transportation .....                    | 84        |
| XVIII. Tribal Cultural Resources .....        | 84        |
| XIX. Utilities and Service Systems .....      | 84        |
| XX. Wildfire.....                             | 84        |
| XXI. Mandatory Findings of Significance ..... | 84        |
| <br>  |           |
| <b>Table 1. Riverside VMT Summary .....</b>   | <b>65</b> |

## Acronyms and Abbreviations

---

|                 |  |
|-----------------|--|
| AB              | Assembly Bill  |
| AF              | acre-feet  |
| AIA             | Airport Influence Area   |
| amsl            | above mean sea level   |
| AQMP            | air quality management plans   |
| AUSD            | Alvord Unified School District   |
| BMPs            | best management practices  |
| CAAQS           | California Ambient Air Quality Standards   |
| CALGreen        | California Green Building Standards Code   |
| Caltrans        | California Department of Transportation  |
| CalVeg          | Classification and Assessment with Landsat of Visible Ecological Groupings                           |
| CAP             | Climate Action Plan  |
| CARB            | California Air Resources Board   |
| CBC             | California Building Code   |
| CBSC            | California Building Standards Code   |
| CBSC            | California Green Building Standards Code   |
| CDFW            | California Department of Fish and Wildlife   |
| CEQA            | California Environmental Quality Act   |
| CH <sub>4</sub> | methane  |
| CHLs            | California Historical Landmarks  |
| CIP             | Capital Improvement Program  |
| City            | City of Riverside (governing entity)   |
| CNPS            | California Native Plant Society  |
| CO <sub>2</sub> | carbon dioxide   |
| CRHR            | California Register of Historical Resources  |
| DAMP            | Drainage Area Management Plan  |
| DTSC            | Department of Toxic Substances Control   |
| EIR             | environmental impact report  |
| EPA             | U.S. Environmental Protection Agency   |
| FEMA            | Federal Emergency Management Agency  |
| FTA             | Federal Transit Administration   |
| GHG             | greenhouse gas   |
| GP 2025         | City of Riverside General Plan 2025  |
| GP FPEIR        | City of Riverside General Plan and Supporting Documents Final<br>Program Environmental Impact Report |
| gpm             | gallons per minute   |

Riverside Housing and Public Safety Element Updates and  
Environmental Justice Policies Project

|                     |   |
|---------------------|---|
| HVAC                | heating, ventilation, and air-conditioning  |
| LID                 | low-impact development  |
| MRZ                 | mineral resource zone   |
| MS4                 | Municipal Separate Storm Sewer System   |
| N <sub>2</sub> O    | nitrous oxide   |
| NAAQS               | National Ambient Air Quality Standards  |
| NAHC                | Native American Heritage Commission   |
| NCA                 | Neighborhood Conservation Area  |
| NOP                 | Notice of Preparation   |
| NO <sub>x</sub>     | nitrogen oxides   |
| NPDES               | National Pollutant Discharge Elimination System   |
| NHTSA               | National Highway Traffic and Safety Administration  |
| O <sub>3</sub>      | ozone   |
| OEM                 | Office of Emergency Management  |
| PM                  | particulate matter  |
| PM <sub>10</sub>    | PM less than or equal to 10 microns   |
| PRC                 | Public Resources Code   |
| proposed<br>Project | Riverside Housing and Public Safety Element Updates and<br>Environmental Justice Policies Project |
| PV                  | photovoltaic  |
| RCFCWCD             | Riverside County Flood Control and Water Conservation District                                    |
| RCFD                | Riverside County Fire Department  |
| RCHCA               | Riverside County Habitat Conservation Agency  |
| RFD                 | Riverside Fire Department   |
| RHNA                | Regional Housing Needs Allocation   |
| RIVTAM              | Riverside Traffic Analysis Model  |
| RMC                 | Riverside Municipal Code  |
| ROGs                | reactive organic gases  |
| RPD                 | Riverside Police Department   |
| RPS                 | Renewables Portfolio Standard   |
| RPU                 | Riverside Public Utilities  |
| RUSD                | Riverside Unified School District   |
| RWQCB               | Regional Water Quality Control Board  |
| SB                  | Senate Bill   |
| SCAG                | Southern California Association of Governments  |
| SCE                 | Southern California Edison  |
| SCAB                | South Coast Air Basin   |
| SCAQMD              | South Coast Air Quality Management District   |

Riverside Housing and Public Safety Element Updates and  
Environmental Justice Policies Project

|           |   |
|-----------|---|
| SDAPCD    | San Diego Air Pollution Control District                            |
| SEMS      | Standardized Emergency Management System                            |
| SKR HCP   | Stephens' Kangaroo Rat Habitat Conservation Plan                    |
| SMGB      | State Mining and Geology Board                                      |
| SOI       | Sphere of Influence   |
| SWPPP     | Stormwater Pollution Prevention Plan                                |
| TMDL      | total maximum daily load  |
| USFWS     | U.S. Fish and Wildlife Service                                      |
| USGS      | U.S. Geological Survey  |
| UST       | underground storage tank  |
| VMT       | vehicle miles traveled  |
| WQMPs     | Water Quality Management Plans                                      |
| WRCRCA    | Western Riverside County Regional Conservation Authority            |
| WRC MSHCP | Western Riverside County Multiple Species Habitat Conservation Plan |

# Environmental Factors Potentially Affected

The environmental factors checked below could be affected by the proposed Riverside Housing and Public Safety Element Updates and Environmental Justice Policies Project (proposed Project) (i.e., the proposed Project would involve at least one impact that is a “Potentially Significant Impact”), as indicated by the checklist on the following pages.

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Aesthetics   | <input type="checkbox"/> Agricultural and Forestry Resources | <input checked="" type="checkbox"/> Air Quality                           |
| <input checked="" type="checkbox"/> Biological Resources                        | <input checked="" type="checkbox"/> Cultural Resources       | <input type="checkbox"/> Energy   |
| <input checked="" type="checkbox"/> Geology/Soils/<br>Paleontological Resources | <input checked="" type="checkbox"/> Greenhouse Gas Emissions | <input checked="" type="checkbox"/> Hazards and Hazardous<br>Materials    |
| <input type="checkbox"/> Hydrology/Water Quality                                | <input checked="" type="checkbox"/> Land Use/Planning        | <input type="checkbox"/> Mineral Resources                                |
| <input checked="" type="checkbox"/> Noise                                       | <input checked="" type="checkbox"/> Population/Housing       | <input checked="" type="checkbox"/> Public Services                       |
| <input checked="" type="checkbox"/> Recreation                                  | <input checked="" type="checkbox"/> Transportation           | <input checked="" type="checkbox"/> Tribal Cultural Resources             |
| <input checked="" type="checkbox"/> Utilities/Service Systems                   | <input type="checkbox"/> Wildfire                            | <input checked="" type="checkbox"/> Mandatory Findings of<br>Significance |

## Determination

On the basis of this initial evaluation:

- I find that the proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find 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 to the proposed Project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed Project MAY have an impact on the environment that is “potentially significant” or “potentially significant unless mitigated” 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 ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed Project, nothing further is required.

\_\_\_\_\_  
Signature

Matthew Taylor, Senior Planner

\_\_\_\_\_  
Printed Name

April 2, 2021

\_\_\_\_\_  
Date

City of Riverside

\_\_\_\_\_  
For

## 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 a 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 proposed Project falls outside a fault rupture zone). A “No Impact” answer should be explained if it is based on project-specific factors as well as general standards (e.g., the proposed 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 environmental impact report (EIR) is required.
4. “Less than Significant with Mitigation Incorporated” applies when 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 #5, below, may be cross referenced.)
5. Earlier analyses may be used if, pursuant to tiering, program EIR, or other California Environmental Quality Act (CEQA) process, an effect has been adequately analyzed in an earlier EIR or negative declaration (Section 15063[c][3][D]). In this case, a brief discussion should identify the following:
  - a. Earlier Analysis Used. Identify and state where earlier analyses are available for review.
  - b. Impacts Adequately Addressed. Identify which effects from the above checklist 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 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 proposed 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, when 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.

Riverside Housing and Public Safety Element Updates and  
Environmental Justice Policies Project

8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
  - a. The significance criteria or threshold, if any, used to evaluate each question; and
  - b. The mitigation measure identified, if any, to reduce the impact to a less-than-significant level.

## I. Aesthetics

|   | Potentially Significant Impact | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|---|--------------------------------|--|-------------------------------------|--------------------------|
| Except as provided in Public Resources Code Section 21099, would the proposed Project:  |                                |  |                                     |                          |
| a. Have a substantial adverse effect on a scenic vista?   | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings along a scenic highway?   | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the proposed Project is in an urbanized area, would the proposed Project conflict with applicable zoning and other regulations governing scenic quality? | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?  | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

## Affected Environment

*City of Riverside General Plan 2025 (GP 2025)*, Figure LU-3, *Riverside Parks*, identifies the City of Riverside’s (City’s) natural and scenic vistas. Within the northwest portion of the City is the Santa Ana River floodplain. To the east, southeast, and west, the uplands and low mountains include Box Springs Mountain, Alessandro Heights, Arlington Mountain, and La Sierra/Norco Hills. A variety of prominent natural features in the City include Mount Rubidoux, Pachappa Hill, Sycamore Canyon, Hawarden Hills, distinctive arroyos, and isolated hills. Open space areas include the Santa Ana River Corridor, Box Springs Mountain Regional Park, Sycamore Canyon Wilderness Park, Mount Rubidoux Park, and California Citrus State Historic Park.

The City does not include a State Scenic Highway. However, the *City of Riverside General Plan and Supporting Documents Final Program Environmental Impact Report 2025 (GP FPEIR)* identifies the City’s scenic parkways in Table 5.1-B, *Scenic Parkway*. According to GP FPEIR Table 5.1-B, the City’s scenic parkways include:

- Victoria Avenue,
- Magnolia Avenue/Market Street,
- University Avenue,
- Van Buren Boulevard,
- Riverwalk Parkway,
- La Sierra Avenue,

- Overlook Parkway,
- Canyon Crest Drive; and
- Arlington Avenue.

## Discussion

### *a. Have a substantial adverse effect on a scenic vista?*

**Less-than-Significant Impact.** Development of housing units under the proposed Project would increase residential densities and non-residential land use intensities in specific areas. Development under the proposed Project would be concentrated in existing transit corridors and not in open space areas and would not block scenic views of the surrounding mountains or the Santa Ana River. Pursuant to RMC standards and as part of each project's design review process (RMC Chapter 19.710), all development under the proposed Project would require design review and must demonstrate conformance with relevant GP 2025 policies and Riverside Municipal Code (RMC) standards. For example, future development must demonstrate conformance with GP 2025 Objective LU-3 policies, which are intended to preserve prominent ridgelines and hillsides as important community visual assets (i.e., Policy LU-3.1). In addition, future development must comply with GP 2025 Objective OS-2 policies, which are intended to minimize the extent of urban development in the hillsides and mitigate any significant adverse consequences associated with urbanization (i.e., Policies OS-2.1 through OS-2.4). RMC standards would regulate land uses, building heights, setbacks, landscaping, parking, fences and walls, and other development characteristics to protect the City's hills and ridgelines. The proposed Project would not have a substantial adverse effect on a scenic vista and the impact would be less than significant.

### *b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings along a scenic highway?*

**Less-than-Significant Impact.** The proposed Project would not result in any effects on scenic highways or scenic resources. Future development under the Housing Element update and zoning code as well as specific plan amendments could occur in areas near the abovementioned GP 2025-designated scenic parkways. There would be no development under the proposed Project on sites with rock outcroppings and no scenic historic resources would be removed. Project-related impacts would be reduced to less than significant through compliance with the RMC, Citywide Design Guidelines, and Sign Guidelines. Pursuant to RMC requirements and as part of the design review process, the City would assess all future development proposals on a project-by-project basis. The RMC would regulate land uses, building heights, setbacks, landscaping, parking, fences and walls, and other development standards to protect the City's scenic parkways and resources. Compliance with the RMC, Citywide Design Guidelines, and Sign Guidelines would ensure project impacts remain less than significant.

### *c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the proposed Project is in an urbanized area, would the proposed Project conflict with applicable zoning and other regulations governing scenic quality?*

**Less-than-Significant Impact.** Updates to the Public Safety Element and inclusion of environmental justice policies would not result in any effects on visual character or quality. The City includes a mixture of developed, partially developed, and vacant land anticipated for future development. Where Zoning Code and Specific Plan Amendments occur on vacant, rural, or agricultural land uses,

implementation of the proposed Project would have the potential to alter the existing visual character or quality of these sites. However, compliance with GP 2025 policies and RMC and specific plan standards, as well as Citywide Design Guidelines and Sign Guidelines, would ensure no substantial degradation of visual character and quality, and project impacts would be less than significant.

Future development must demonstrate conformance with GP 2025 Objective OS-4 policies, which are intended to preserve designated buffers between urban and rural uses for their open space and aesthetic benefits (i.e., Policies OS-4.1 and OS-4.2). Pursuant to RMC requirements and as part of the design review process, the City would assess all future development proposals on a project-by-project basis to prevent nonconforming uses and structures with the potential to affect the City's visual character. The RMC regulates land uses, building heights, setbacks, landscaping, parking, fences and walls, and other development characteristics to protect the City's visual character. Compliance with GP 2025 Objective OS-4 policies, among others, as well as RMC standards would ensure impacts on visual character would be less than significant.

***d. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?***

**Less-than-Significant Impact.** The development of new housing units and associated Zoning Code and specific plan amendments to accommodate the housing could introduce new sources of light or glare with the potential to adversely affect daytime or nighttime views in some areas. The Riverside County Light Pollution Ordinance (Riverside County Ordinance No. 655) restricts nighttime lighting for areas within a 15-mile radius (Zone A) and a 45-mile radius (Zone B) of the Palomar Observatory. As shown in GP FPEIR Figure 5.1-1, *Palomar Observatory Lighting Impact Zone*, the southeastern portion of the project area is within Zone B, or within a 45-mile radius of the observatory (45-mile Radius Lighting Impact Zone). Any future development occurring within this area must demonstrate conformance with Riverside County Ordinance No. 655. The City requires all development that introduces light sources, or modifications to existing light sources, to incorporate shielding devices or other light pollution-limiting design features (e.g., hoods or lumen restrictions); refer to GP FPEIR Mitigation Measure AES-1. Pursuant to RMC and Specific Plan standards, and Citywide Design Guidelines and Sign Guidelines, the City would assess all future development proposals on a project-by-project basis, as part of the design review process, to regulate site lighting with the potential to result in light and glare impacts. RMC Section 19.556, *Lighting*, and Section 19.590.070, *Light and Glare*, include standards intended to protect the City from adverse light and glare impacts. Compliance with Riverside County Ordinance No. 655 requirements, existing GP FPEIR Mitigation Measure AES-1, and RMC Section 19.556 and Section 19.590.070, future development facilitated pursuant to the proposed Project would not introduce new sources of substantial light or glare. The impact would be less than significant.

## II. Agricultural and Forestry Resources

|  | Potentially Significant Impact | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact | No Impact                           |
|--|--------------------------------|--|------------------------------|-------------------------------------|
| <p>In determining whether impacts on 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 as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts on 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 the Forest Protocols adopted by the California Air Resources Board. Would the proposed Project:</p> |                                |  |                              |                                     |
| 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"/> |
| b. Conflict with existing zoning for agricultural use or conflict with a Williamson Act contract?  | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input checked="" type="checkbox"/> |
| c. Conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code Section 12220[g]), timberland (as defined by 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"/> |
| 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"/> |
| e. Involve other changes in the existing environment that, 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"/> |

### Affected Environment

In 2005, Riverside County had a total of 223,848 acres of harvested crops. In 2018, the number had dropped to 194,346 harvested acres (Riverside County Agricultural Commissioner 2018). This represents a loss of 29,502 acres in 15 years, or approximately 13 percent. The Riverside County Agricultural Commissioner's office also reports statistics for regions of Riverside County, including the Riverside/Corona District, which is where the proposed Project is located. For the 2005 to 2016 timeframe, the latest reported, the Riverside/Corona District went from 14,340 harvested acres to 7,020

harvested acres, a reduction of approximately 51 percent (Riverside County Agricultural Commissioner 2018). This shows that the development pressure faced in the western end of the county, where the City of Riverside is located, is more rapid than in the county.

The citrus industry was influential in the establishment of the City of Riverside in the late nineteenth century and its influence continues today. The largest area of agriculture within City limits is the Arlington Heights Greenbelt. The City's Sphere of Influence (SOI) still contains large citrus groves, especially in the Highgrove, Woodcrest, and Rancho El Sobrante areas; however, over time, many of the large agricultural and citriculture areas have been converted to suburban uses.

In 1979, City of Riverside voters passed Proposition R: "Taxpayer's Initiative to Reduce Costly Urban Sprawl by Preserving the City of Riverside's Citrus and Agricultural Lands, Its Unique Hills, Arroyos and Victoria Avenue." The two main features of Proposition R relate to: 1) preservation of agriculture through application of the RA-5-Residential Agricultural Zone to two specific areas of the City: and 2) protection of hillside areas through application of the RC Residential Conservation Zone to areas of the City based on slopes over 15 percent. The two areas of the City which were zoned to RA-5 are: 1) the Arlington Heights Greenbelt; and 2) an area commonly known as the Arlanza-La Sierra Lands, a bluff top area above the Santa Ana River bordered by Tyler Street on the east and Arlington Avenue on the west. Eight years later, City of Riverside voters approved Measure C as an amendment to Proposition R, entitled "Citizens' Rights Initiative to Reduce Costly Urban Sprawl, to Reduce Traffic Congestion, to Minimize Utility Rate Increases and to Facilitate Preservation of the City of Riverside's Citrus and Agricultural Lands, its Scenic Hills, Ridgelines, Arroyos and Wildlife Areas." Measure C amended Proposition R by adding policies to promote agriculture. Measure C relates to the Arlington Heights Greenbelt, the Arlanza-La Sierra Lands and any areas designated for agricultural use in the then existing General Plan or Zoning Code.

## Discussion

*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?*

**No Impact.** The California Department of Conservation (CDOC) Farmland Mapping and Monitoring Program designates the majority of the City as Urban and Built-Up Land (CDOC 2020). Several small areas of the City are designated as Important Farmland, Farmland of Statewide Importance, Unique Farmland, and Other Land (CDOC 2020). The areas designated as such occur primarily near the southern boundary of the City, south of Victoria Avenue and west of Washington Street within the Arlington Heights Neighborhood. The northeastern area of the City also contains land designated as Important Farmland, Farmland of Statewide Importance, Unique Farmland, and Other Land (CDOC 2020). The areas designated as such occur primarily within the University of California, Riverside West Campus. The proposed Project would not propose any new development in areas designated as Important Farmland, Farmland of Statewide Importance, Unique Farmland, or Other Land. As such, the proposed Project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, and no impacts would occur.

*b. Conflict with existing zoning for agricultural use or conflict with a Williamson Act contract?*

**No Impact.** There are ten Williamson Act contract parcels within city limits. Four parcels are located in the Prenda neighborhood and six are located in the southeastern portion of the city in the Woodcrest area. Review of the GP 2025 Open Space and Conservation Element indicates none of the

opportunity sites is within Williamson Act preserves or contracted land. As such, the proposed Project would have no impact related to agricultural zoning or Williamson Act contract lands, and no conflicts with existing zoning for agricultural uses would occur.

***c. Conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?***

**No Impact.** The proposed Project does not identify opportunity sites zoned for forest land. In addition, there are no lands zoned as forest land, timberland, or timberland zoned Timberland Production areas (as defined in Public Resources Code [PRC] 12220[g] and PRC 4526 or Government Code 51104[g]) within the project area. The proposed Project would not affect forest land or timberland or conflict with existing zoning for forest land.

***d. Result in the loss of forest land or conversion of forest land to non-forest use?***

**No Impact.** As described above, the proposed Project and Zoning Code and specific plan amendments, do not identify opportunity sites zoned for forest land. As such, no impacts related to the loss of forest land or conversion of forest land to non-forest use would occur.

***e. Involve other changes in the existing environment that, 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?***

**No Impact.** As mentioned above, no agricultural farmland or forest land resources are on the identified opportunity sites, in addition, the proposed Project would not involve other changes to the existing environment that could result in the conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use. As such, no impacts related to the conversion of agricultural or forest land to other land uses would occur.

### III. Air Quality

|   | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|---|-------------------------------------|--|-------------------------------------|--------------------------|
| Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the proposed Project: |                                     |  |                                     |                          |
| a. Conflict with or obstruct implementation of the applicable air quality plan?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard?                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| c. Expose sensitive receptors to substantial pollutant concentrations?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?   | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### Affected Environment

The City is in the South Coast Air Basin (SCAB), which includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The South Coast Air Quality Management District (SCAQMD) is required, pursuant to the federal and state Clean Air Acts, to reduce emissions of criteria pollutants for which the SCAB is in nonattainment. The SCAB is currently classified as a nonattainment area for the federal and state ozone (O<sub>3</sub>) standards and the standards regarding particulate matter (PM) less than or equal to 2.5 microns (PM<sub>2.5</sub>); it is also a nonattainment area for the state standards regarding PM less than or equal to 10 microns (PM<sub>10</sub>) (U.S. Environmental Protection Agency 2020; SCAQMD 2016).

### Discussion

#### *a. Conflict with or obstruct implementation of the applicable air quality plan?*

**Potentially Significant Impact.** As mentioned above, the SCAQMD is required to reduce emissions of criteria pollutants for which SCAB is in nonattainment status (i.e., O<sub>3</sub>, PM<sub>2.5</sub>, and PM<sub>10</sub>). The SCAQMD has developed air quality management plans (AQMPs) to control these pollutants and reach attainment levels. SCAQMD’s most recent plan to achieve air quality standards is the 2016 AQMP, adopted by the SCAQMD Governing Board on March 3, 2017. Implementation of the proposed Project could lead to emissions that were not accounted for in the applicable air quality plans. The proposed Project may conflict with or obstruct implementation of the SCAQMD’s AQMP. This impact is potentially significant and will be analyzed in the forthcoming EIR.

***b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is a nonattainment area for an applicable federal or state ambient air quality standard?***

**Potentially Significant Impact.** SCAB is presently in nonattainment status under the California Ambient Air Quality Standards (CAAQS) for O<sub>3</sub>, PM<sub>2.5</sub>, and PM<sub>10</sub> and in nonattainment status under the National Ambient Air Quality Standards (NAAQS) for O<sub>3</sub> and PM<sub>2.5</sub>. O<sub>3</sub> is formed when volatile organic compounds (VOCs), also referred to as reactive organic gases (ROGs), and nitrogen oxides (NO<sub>x</sub>) react in the presence of sunlight. VOC sources include fuels (e.g., gasoline, natural gas, wood, oil), solvents, petroleum processing and storage facilities, and pesticides. Sources of PM<sub>10</sub> and PM<sub>2.5</sub> in both urban and rural areas include motor-vehicle exhaust, wood-burning stoves and fireplaces, dust from construction, landfills, agricultural operations, wildfires, brush/waste burning, dust from paved and unpaved road travel, and windblown dust from open lands.

The Housing and Public Safety Elements updates, development of environmental justice policies, and Zoning Code and specific plan amendments under the proposed Project, would not directly result in any construction activities or operational air quality emissions. However, future housing, public infrastructure, and mixed-use developments in the City facilitated by the proposed Project could result in emissions from their construction and operation. These potential indirect impacts of the proposed Project could result in a cumulatively considerable net increase in criteria pollutants, including those for which the region is in nonattainment status. This impact is potentially significant, and further analysis will be provided in the forthcoming EIR.

***c. Expose sensitive receptors to substantial pollutant concentrations?***

**Potentially Significant Impact.** The SCAQMD defines sensitive receptors as people in the population who are particularly susceptible to health effects due to exposure to an air contaminant. Land uses where sensitive receptors are typically located include schools, playgrounds, childcare centers, long-term health care facilities, rehabilitation centers, convalescent centers, hospitals, retirement homes, and residences (SCAQMD 2005). Although the proposed Project would not directly result in any construction activities or operational air quality emissions, future housing, public infrastructure, and mixed-use developments in the City facilitated by the proposed Project could expose sensitive receptors and environmental justice communities to substantial pollutant concentrations. This impact is potentially significant and will be analyzed in the forthcoming EIR.

***d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?***

**Less-than-Significant Impact.** According to the California Air Resources Board's (CARB's) *CEQA Air Quality and Land Use Handbook*, land uses associated with odor complaints typically include sewage treatment plants, landfills, recycling facilities, waste transfer stations, petroleum refineries, biomass operations, auto body shops, coating operations, fiberglass manufacturing facilities, foundries, rendering plants, and livestock operations (CARB 2005). The proposed Project would not include any of the odor-related uses identified by the SCAQMD.

The proposed Project would not directly result in any construction activities. However, future housing, public infrastructure, and mixed-use developments in the City facilitated by the proposed Project could result in construction activities, which could generate detectable odors from heavy-duty equipment exhaust. These construction-related odors would be short term in nature and would cease once construction was completed. In addition, SCAQMD Rule 402, *Nuisance*, prohibits the discharge of air contaminants that cause a nuisance or annoyance for the public, including odors. All future development resulting from the proposed Project would be required to comply with this rule. As such, the impact of other emissions, including those leading to odors, would be less than significant.

## IV. Biological Resources

|  | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|--|-------------------------------------|--|-------------------------------------|--------------------------|
| Would the proposed 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 Wildlife or U.S. Fish and Wildlife Service? | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marshes, vernal pools, coastal wetlands, etc.) through direct removal, filling, hydrological interruption, or other means?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| 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?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?  | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |

## Affected Environment

The City is in the South Coast subregion of the southwestern California region and within the California Floristic Province (Baldwin et al. 2012). The natural vegetation of the subregion consists primarily of chaparral, sage scrub, annual grasslands, woodland, and riparian scrub and forest. Much of the natural vegetation occurs in preserved open space or fragmented patches in areas that are not developed.

The City is within valley and foothills between the Santa Ana, San Bernardino, and San Jacinto Mountains. Major topographic features in the vicinity of the study area include the Estelle Mountains to the south, the Santa Ana Mountains to the west, the Box Spring Mountains to the immediate east, the San Bernardino Mountains to the northeast, and San Jacinto Mountains to the southeast. Human activities and land use in the City have historically involved ranching, farming, and mining. The City comprises primarily urban land uses (residential, commercial, office, industrial, and infrastructure); smaller portions of the City include farming lands, rural residential development, and open space, including conservation lands.

The topography of the City ranges from generally flat or gently sloping to areas of rugged terrain, rolling hills, and steep slopes. The more rugged terrain is confined primarily to the southern portion of the City, with the northern and central portion being composed of mainly flat lands. Elevations range from approximately 700 feet above mean sea level (amsl) near the Santa Ana River to almost 1,400 feet amsl west of La Sierra. Soils in the City consist primarily of well-drained loams, ranging from fine sandy loam to cobbly loam; they also include clay and gravelly loamy sand. Most of the City is within the Santa Ana River Watershed, with a small portion of the eastern part occurring within the San Jacinto Valley Watershed (see Section X, *Hydrology and Water Quality*, for details). The major water feature in the City is the Santa Ana River. In addition, several arroyos and canals cross the City, including Riverside Canal, Sycamore Canyon, Gage Canal, Spring Brook River/Wash, Tequesquite Arroyo, Alessandro Arroyo, Prenda Arroyo, Woodcrest Arroyo, and Mockingbird Canyon, along with smaller unnamed earthen and concrete-lined drainages.

The majority of the undeveloped lands, open space, and conserved land is at the northern border, along the Santa Ana River corridor, and in the undeveloped foothills, canyons, arroyos, and mountains of Sycamore Canyon Park, Mockingbird Canyon, and Alessandro Heights in the southern portion. These open space areas contain native riparian, grassland, and scrubland habitats that support many native plants and animals, including special-status species and sensitive natural communities. These lands serve as wildlife corridors, which provide areas of undisturbed open space for regional wildlife migration between natural habitats, thereby promoting the proliferation of indigenous animal species. The remainder of the land cover types within the City are residential, commercial, and industrial, including infrastructure-related land cover.

There are 10 major vegetation communities/land cover types within the City (Western Riverside County Regional Conservation Authority [WRCRCA] 2021a), urban/developed (76 percent), disturbed (1 percent), agriculture (7 percent), nonnative grassland (6 percent), coastal scrub (7 percent), riparian scrub/woodland/forest (2 percent), woodlands/forest (1 percent), marsh (< 1 percent), rock outcrops (< 1 percent), and open water/riverine (< 1 percent).

## Discussion

*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 Wildlife or U.S. Fish and Wildlife Service?*

**Potentially Significant Impact.** The City contains native riparian, grassland, and scrubland habitats (see Impact b, below, for details) as well as conservations lands (see Impact f, below) that have a potential to support special-status plant and animal species. Based on a search of the California Natural Diversity Database (California Department of Fish and Wildlife [CDFW] 2021); California Native Plant Society (CNPS) Inventory of Rare, Threatened, and Endangered Plants of California (CNPS 2021); and U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation database (USFWS 2021a), 44 special-status plant species and 43 special-status wildlife species occur within the U.S. Geological Survey (USGS) 7.5-minute topographic quadrangles in which the proposed Project occurs (Corona North, Riverside West, Riverside East, Fontana, San Bernardino South, and Steele Peak). Twenty-eight of these species are federally and/or state-listed species. If project work covered under the Housing Element update (e.g., future housing and mixed-use development) or Public Safety Element update (e.g., public infrastructure, wildfire hazard control and prevention measures) is performed within areas where any of these species are present, or if Zoning Code and specific plan amendments are made where these species occur, then direct impacts (e.g., permanent removal of habitat, injury and mortality from construction-related activities) and/or indirect impacts (temporary disturbance of habitat; project-related disturbances from noise, night

lighting, and increased human presence; degradation of habitat from increased dust, trash, erosion, and sedimentation; introduction of invasive species) could occur as a result of project-related construction and operational activities.

Impacts could be potentially significant and may require mitigation. The proposed Project's potential to adversely affect species identified as a candidate, sensitive, or special-status species in local or regional policies/regulations will be analyzed, and mitigation will be developed, in the forthcoming EIR.

***b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?***

**Potentially Significant Impact.** Seven vegetation communities classified by CDFW as sensitive natural communities are reported to occur within the USGS Corona North, Riverside West, Riverside East, Fontana, San Bernardino South, and Steele Peak 7.5-minute topographic quadrangles, based on the record search (CDFW 2021). Based on an analysis of aerial photographs of the City, as well as Classification and Assessment with Landsat of Visible Ecological Groupings (CalVeg) and Western Riverside County Multiple Species Habitat Conservation Plan (WRC MSHCP) vegetation layers, sensitive natural communities are present within the City, including coastal scrub, riparian scrub/woodland/forest, woodlands/forests, marsh, and open water/riverine. USFWS-designated critical habitat for least Bell's vireo and Santa Ana sucker is present within the City along the Santa Ana River corridor in the northern portion of the City (USFWS 2021b). All critical habitat within the City is along the Santa Ana River; no critical habitat is present within the rest of the City. Because the proposed Project would avoid placing development sites in areas containing greenbelts, arroyos and canyons, and other areas of high biological sensitivity, it is anticipated that most sensitive natural communities would be avoided under the proposed Project, although small patches of sensitive natural communities may be affected (e.g., riparian scrub habitat in ditches and channels). However, Public Safety Element updates (e.g., wildfire hazard control and prevention measures) could affect sensitive natural communities should vegetation clearing and/or management be required.

Impacts could be potentially significant and may require mitigation. The proposed Project's potential to adversely affect riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the CDFW or USFWS will be analyzed, and mitigation will be developed in the forthcoming EIR.

***c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marshes, vernal pools, coastal wetlands, etc.) through direct removal, filling, hydrological interruption, or other means?***

**Potentially Significant Impact.** Federally protected wetlands and non-wetlands, as well as vegetated and unvegetated state streambeds, are present within the City. Water feature types depicted in the USFWS National Wetland Institute database present within the City include freshwater emergent wetland, freshwater forested/shrub wetland, freshwater pond, riverine, and lake (USFWS 2021c). Ditches and channels are also present throughout the City. Should project work covered under the Housing Element update (e.g., future housing and mixed-use development) or Public Safety Element update (e.g., public infrastructure, wildfire hazard control, and prevention measures) be performed, or if Zoning Code and specific plan amendments are made in areas containing or adjacent to any protected aquatic resources, then direct impacts (e.g., permanent loss of features, alteration of hydrological conditions, diminished level of biological functions and values) and indirect impacts (e.g., introduction of non-native species, erosion, sedimentation, chemical spills, alteration of downstream hydrological conditions) could occur.

The proposed Project's potential to affect state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means will be analyzed, and mitigation will be developed in the forthcoming EIR.

*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?*

**Potentially Significant Impact.** Wildlife corridors are present within the City, particularly in the northern portion of the City along the Santa Ana River corridor, which provides a long, linear stretch of open space with native habitats for regional wildlife movement and migration (including many species of fish, amphibians, reptiles, birds, and small to medium-sized mammals), and in the southern portion in the open foothill areas containing arroyos and canyons, which connect to other open areas to the northeast and southwest. The portions of the Santa Ana River within the northern portion of the City contain migratory passages and nursery sites for native fish. Nesting bird habitat is present throughout the City, within the open lands as well as urban areas. Because the proposed Project would avoid placing development sites in areas containing greenbelts, arroyos and canyons, and other sensitive biological resources (e.g., the Santa Ana River), it is anticipated that major wildlife movement corridors and native fish nursery sites would not be affected under the Housing Element update and Zoning Code and specific plan amendments, although smaller wildlife movement corridors may be affected (e.g., ditches and channels providing movement through urban areas). However, Public Safety Element updates (e.g., wildfire hazard control and prevention measures) could affect wildlife corridors should vegetation clearing and/or management in open areas be required. Nesting birds in both urban areas and open lands could be affected during construction and operations-related maintenance activities (e.g., vegetation clearing, tree trimming) resulting from development associated with the proposed Project.

The proposed Project's potential to interfere with the movement of native resident or migratory wildlife species, interfere with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites will be analyzed, and mitigation will be developed in the forthcoming EIR.

*e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

**Less-than-Significant Impact.** The City of Riverside does not have an adopted Tree Protection Ordinance. Construction and/or operational activities associated with the proposed Project could require pruning or tree removal during vegetation clearing and grading and other construction activities. Operational activities designed to keep housing and public safety areas landscaped, clear, and accessible would require vegetation management, which could involve both tree-trimming and/or tree removal. The trimming or removal of trees would be subject to the same local tree policies and ordinances, regardless of whether the work was being performed as a part of construction or operational activities.

Any proposed development activity within the City's boundaries that proposes planting, pruning, or removing a street tree within a city right-of-way must follow the requirements of the *Urban Forestry Policy Manual*. The manual documents guidelines for the planting, pruning, preservation, and removal of all trees in city rights-of-way. The specifications in the manual are based on national standards for tree care established by the International Society of Arboriculture, the National Arborists Association, and the American National Standards Institute.

In addition, any new development associated with proposed Project within the City would be required to comply with the RMC and County WRC MSHCP mitigation fees, and the Stephens' Kangaroo Rat Habitat Conservation Plan (SKR HCP) fee assessment area and mitigation fees. Any future applicant of any proposed development within MSHCP/HCP plan boundaries would be required to pay a fee and, i Title 16 of the RMC provides for payment of development fees to protect biological resources where applicable.

The City is in the plan area for the Upper Santa Ana River HCP, which is currently in development. Species like least Bell's vireo, Santa Ana sucker, Santa Ana River woolly-star, burrowing owl, and 18 others are covered in this HCP (Upper Santa Ana River Sustainable Resources Alliance 2021). Also, the General Plan 2025 includes policies<sup>1</sup> to ensure that future development would not conflict with any local policies or ordinances that protect biological resources.

With Project compliance with City policies and ordinances, it is anticipated that any construction and/or operations-related activities associated with the proposed Project would have a less-than-significant impact, either directly or through habitat modifications, on any local policies or ordinances that protect biological resources.

***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?***

**Potentially Significant Impact.** The City overlaps two adopted MSHCPs/HCPs, the WRC MSHCP and the SKR HCP. The entire City is within the boundaries of the WRC MSHCP; the southeastern portion of the City occurs within the boundaries of the SKR HCP plan area, including lands on the SKR HCP Sycamore Canyon Core Reserve area. Should any activity (e.g., public infrastructure; public infrastructure, wildlife hazard control, and management measures under the Public Safety Element update) occur within conservation lands under these conservation plans, then the proposed Project would have the potential to conflict with the provisions outlined in these MSHCPs/HCPs. Project-related construction and/or operation activities may affect lands within the WRC MSHCP conservation plan area to fulfill the conservation objectives of the overall reserve assembly, including habitat management units, area plans and sub-units, criteria cells, public/quasi-public conserved lands, cores and linkages, and species survey areas. In addition, the proposed Project may affect WRC MSHCP covered species and riparian/riverine resources (e.g., riparian habitats, open waters, wetlands, and riparian species). Project-related construction and/or operational activities may also affect SKR HCP lands, including designated core reserves, plan fee areas, and suitable and occupied habitat for Stephens' kangaroo rat.

The proposed Project's potential to conflict with the provisions of the WRC MSHCP and SKR HCP will be analyzed, and mitigation will be developed in the forthcoming EIR.

---

<sup>1</sup> Open Space Element, Policies OS-1.1–O.S-1.5, OS-1.8–OS-1.15, OS-2.2, OS-2.4, OS-4.2, OS-4.3, OS-5.1–OS-5.4, OS-6.1–OS-6.4, OS-7.3; Air Quality Element, Policy AQ-1.9; Land Use Element, Policies LU-2.2, LU-3.1, LU-3.2, LU-4.1–LU-4.5, LU-5.1–LU-5.6, LU-7.1–LU-7.4, and LU-13.2; and Circulation and Community Mobility Element, Policies CCM-4.1–CCM-4.4).

## V. Cultural Resources

|  | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|--|-------------------------------------|--|-------------------------------------|--------------------------|
| Would the proposed Project:  |                                     |  |                                     |                          |
| a. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?      | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5? | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| c. Disturb any human remains, including those interred outside of dedicated cemeteries?                              | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### Affected Environment

The City is in the Santa Ana River Watershed, within the larger Jurupa Valley. Numerous archaeological studies conducted over the years have identified many archaeological sites in the region. Archaeological resource types in the region vary widely in size and intensity, from individual isolated artifacts to small scatters of artifacts as well as large, dense accumulations of artifacts associated with long-term human occupation. Archaeological materials can range in age from the prehistoric to the historical period and be associated with both prehistoric and historical-period Native American as well as historical-period non-Native American occupation of the region. Archaeological sites such as prehistoric artifact scatters, rock art, and milling stations are common; larger village sites have also been documented. Some examples of potential historical-period sites include refuse scatters, water conveyance features, and infrastructure; remnants of farms, ranches, and homesteads; and early residential structures and lots.

The Cultural Resources Ordinance (Title 20 of the RMC) recognizes four types of designations: Landmark, Structure of Merit, Historic District, and Neighborhood Conservation Area (NCA). The City has conducted several historical resource surveys, designated individually significant historical resources and historic districts, and identified potentially significant individual resources and historic districts.

Named “Riverside” in 1870 by a colony of agriculturalists/developers, Riverside’s early built development included an irrigation network, including the City Landmark Highgrove Drop and Upper Riverside Canal (1870–1886), and the extension of rail lines, all of which supported a nationally prominent citrus industry. Historical resources could also be associated with development of the Riverside Land and Irrigation Company, construction of transportation infrastructure, and construction of numerous public works, such as parks, a library, schools, hotels, and other private and municipal buildings, in the 1920s. They could also include buildings associated with residential and commercial development from the post–World War II period and educational facilities associated with the opening of the University of California, Riverside (1961) and La Sierra University (1964).

## Discussion

### *a. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?*

**Potentially Significant Impact.** Under CEQA, historical resources include intact buildings or structures listed in or eligible for listing in the California Register of Historical Resources (CRHR), locally designated by a municipality, or included in a local survey that meets the requirements of PRC 5024.1(g). California Historical Landmark (CHL) No. 770 and all consecutively numbered CHLs following CHL No. 770 also qualify as historical resources under CEQA. Development throughout the City is subject to Title 20 (Cultural Resources) of the RMC. Per Title 20, a Certificate of Appropriateness is required for the rehabilitation, alteration, demolition, etc., “of any designated Cultural Resource, eligible Cultural Resource, any element in a geographic Historic District (contributing and non-contributing), or, a contributing feature or contributor to a Neighborhood Conservation Area.” The approval or denial of a Certificate of Appropriateness is based on several factors, including the proposed Project’s consistency with the Secretary of the Interior’s Standards for the Treatment of Historic Properties and City-established design guidelines.

Future development associated with the proposed Project would occur on opportunity sites, which are found throughout the City. Preliminarily identified opportunity sites are located in several existing historic districts, such as the Mission Inn Historic District, and in eligible historic districts, such as the Citrus Thematic Industrial area. Unidentified and unevaluated buildings more than 45 years old may be identified as opportunity sites. The proposed Project could result in a significant impact on a historical resource, per State CEQA Guidelines Section 15064.5. The proposed Project’s potential impacts on historical resources will be analyzed, and mitigation will be developed in the forthcoming EIR.

### *b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?*

**Potentially Significant Impact.** State CEQA Guidelines Section 15064.5 defines an archaeological resource as any artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that the resource:

- Contains information needed to answer important scientific research questions and for which there is a demonstrable public interest;
- Has a special and quality such as being the oldest of its type or the best available example of its type; or
- Is directly associated with a scientifically recognized important prehistoric or historic event or person.

In most situations, resources that meet the definition of a unique archaeological resource also meet the definition of historical resource. As a result, it is current professional practice to evaluate cultural resources for significance, based on their eligibility for listing in the CRHR. Even without a formal determination of significance and nomination for listing in the CRHR, the lead agency can determine that a resource is potentially eligible for such listing to aid in determining whether a significant impact would occur. The fact that a resource is not listed in the CRHR, or has not been determined eligible for such listing, and not included in a local register of historic resources does not preclude an agency from determining that a resource may be a historical resource for the purposes of CEQA.

The updated Housing Element must show the exact locations where future development could occur and identify the potential number of homes or other potential development that can be built at those locations. In identifying opportunity sites, attempts have been made to eliminate locations with high archaeological and paleontological sensitivity. Vacant lots, underutilized areas, developed areas with unused space, areas near public transit, and areas near commercial or industrial buildings have been identified as opportunity sites. It is possible that new infrastructure for public safety could also be located in these areas. These locations have the potential to contain as-yet unknown or buried archaeological materials and sites. As such, development facilitated by the proposed Project has the potential to cause an adverse change in the significance of an archaeological resource, pursuant to Section 15064.5 of the State CEQA Guidelines and will be analyzed in the forthcoming EIR.

*c. Disturb any human remains, including those interred outside of dedicated cemeteries?*

**Less-than-Significant Impact.** State law, including Health and Safety Code Section 7050.5 and PRC Section 5097.98, provides guidance regarding how sites containing human remains must be treated. PRC Section 5097 specifies the procedures to be followed in the event of the unexpected discovery of human remains on nonfederal public lands. PRC Section 5097.5 considers it a misdemeanor to knowingly and willfully excavate, remove, destroy, injure, or deface any historic or prehistoric ruins; burial grounds; archaeological or vertebrate paleontological site, including fossilized footprints; inscriptions made by human agency; rock art; or any other archaeological, paleontological, or historical feature situated on public lands, except with the express permission of the public agency having jurisdiction over the lands. The disposition of Native American burials falls within the jurisdiction of the Native American Heritage Commission (NAHC), which prohibits willfully damaging any historic, archaeological, or vertebrate paleontological site or feature on public lands (PRC Section 5097.9). PRC Section 5097.98 stipulates that whenever the NAHC receives notification of a discovery of Native American human remains from the county coroner, it shall immediately notify those people it believes to be the most likely descendants of the deceased Native American. The descendants may inspect the site of discovery and make recommendations on the removal or reburial of the remains.

Health and Safety Code Section 7050.5 addresses the protection of human remains discovered in any location other than a dedicated cemetery and makes it a misdemeanor for any person who knowingly mutilates or disinters, wantonly disturbs, or willfully removes any human remains in or from any location other than a dedicated cemetery without authority of law, except as provided in PRC Section 5097.99. It further states that in the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined that the remains are not subject to the provisions concerning investigation of the circumstances, manner, and cause of any death and the recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in PRC Section 5097.98. If the coroner determines that the remains are not subject to his or her authority and if the coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, he or she shall contact, by telephone within 24 hours, the NAHC.

Because previous archaeological studies have identified the presence of Native American human remains within the City and adjacent areas, development projects proposed on vacant lands or on other opportunity sites have the potential to discover previously unknown Native American human remains. As such, development facilitated by the proposed Project has the potential to disturb human remains, including those outside dedicated cemeteries. However, if human remains should be discovered on vacant lands or other opportunity sites, however unlikely, they would be treated in accordance with applicable codes and regulations, notably PRC Section 5097 and Health and Safety Code Section 7050.5, which would ensure that impacts would be less than significant.

## VI. Energy

|   | Potentially Significant Impact | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|---|--------------------------------|--|-------------------------------------|--------------------------|
| Would the proposed Project:   |                                |  |                                     |                          |
| a. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?   | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### Affected Environment

Within the City is a broad array of land uses, ranging from high-density residential and commercial to semi-rural and agricultural. The proposed Project, through facilitation of potential development projects, may result in a commitment of energy resources in the form of diesel fuel, gasoline, and electricity during construction and operation. Energy refers to the power supply required for implementation of the proposed Project within the City. Power is supplied primarily by non-renewable sources, such as coal and natural gas, as well as nuclear power (City of Riverside 2012). This discussion focuses on electricity and natural gas as energy sources.

#### *Electricity Provider*

Within Riverside, most of the electric utility is owned by the City's Riverside Public Utilities (RPU) which transmits and distributes electricity to a 90-square-mile territory that includes the majority of the City (RPU 2019a) as well as some areas in the City's SOI. In 2019, the service area population was 328,042, with a peak energy demand of 640 megawatts. Currently, all of RPU's imported energy comes through a single power connection from Southern California Edison's (SCE's) Vista Substation, located in Grand Terrace (RPU 2021). Through that connection, a maximum of 557 megawatts can reach the City. Within Riverside, more than 900 miles of underground distribution lines, 510 miles of overhead distribution lines, 22,840 power poles, and 14 substations service each neighborhood (RPU 2019b). RPU has acquired permission to provide a second connection to the state power transmission grid through SCE. In addition, a second substation will improve distribution (RPU 2021). Southern California Edison generally serves customers outside of the City limits (City of Riverside 2012).

#### *Natural Gas Provider*

Natural gas is provided by the Southern California Gas Company. The Southern California Gas Company provides natural gas to 21.8 million customers through 5.9 million meters in more than 500 communities, encompassing a service area of approximately 24,000 square miles throughout central and Southern California (Southern California Gas Company 2020). Natural gas sales from the Southern California Gas Company in 2019 totaled 84,654,000 megawatt-hours (Edison International and SCE 2019).

#### *Regulations*

The California Building Standards Code (California Code of Regulations, Title 24), or CBSC, is the minimum standard established in law for the design and construction of buildings and structures in California. The most recent edition of the CBSC was published on January 1, 2020. Within the

CBSC, the California Building Code (CBC) contains general building design and construction requirements related to fire and life safety, structural safety, and access compliance (California Code of Regulations, Title 24, Part 2). The CBC includes the mandatory California Green Building Standards Code (CALGreen) for residential and nonresidential structures (California Code of Regulations, Title 24, Part 11). The most recent version of CALGreen includes the 2019 Building Energy Efficiency Standards (California Energy Commission 2019). These standards focus on four key areas: smart residential photovoltaic systems, updated thermal envelope standards (preventing heat transfer from the interior to exterior and vice versa), residential and nonresidential ventilation requirements, and non-residential lighting requirements (California Energy Commission 2019).

RPU developed the Utility 2.0 Strategic Plan, a 10-year plan that calls for sustainable consumption of water and electricity resources. The strategic plan identifies goals, strategies, objectives, and key performance indicators to guide the allocation of resources and management of water and electricity assets (City of Riverside 2017). The Utility 2.0 Strategic Plan's key goals concern reliability and resiliency, affordability, sustainability, customer experience, and operational excellence. To achieve compliance with statewide targets related to water and electricity efficiency, renewable resources, and greenhouse gas (GHG) emissions, the City has put into effect local policy provisions. All standards presented in the Utility 2.0 Strategic Plan respond to the needs of development by achieving more efficient and sustainable uses for resources.

Under California's Renewables Portfolio Standard (RPS) program, all retail sellers of electricity in the state must meet established renewable procurement targets in their retail electricity supply. The renewable energy sources used by retail sellers of electricity include wind, solar photovoltaic (PV), solar thermal, hydroelectricity, geothermal, and bioenergy. The RPS program was initially established in 2002 by Senate Bill (SB) 1078, which required 20 percent of electricity retail sales to be served by renewable resources by 2017. The program was subsequently accelerated in 2015 with SB 350, which mandated a 50 percent RPS by 2030 and included interim annual RPS targets with 3-year compliance periods that required 65 percent of RPS procurement to be derived from long-term contracts of 10 or more years. In 2018, SB 100 was signed into law, which increased the RPS to (1) 50 percent of retail sales by 2026 (moved up by 4 years from SB 350), (2) 60 percent of retail sales by 2030, and (3) 100 percent of retail sales by 2045 (with a carbon-free goal for 2045). RPU is required to meet the renewable procurement targets under the RPS program.

## Discussion

### *a. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*

**Less-than-Significant Impact.** The proposed Project would not directly result in an impact on energy resources. In particular, the Housing Element update is strictly a policy document that contains goals, policies, and actions aimed at accommodating up to 24,000 new housing units by 2029 to meet the RHNA allocation; yet the Housing Element itself does not provide any entitlements for the construction of these units. The proposed Project would allow up to 30,190 total units to be built, including the 24,000 units required by the Regional Housing Needs Allocation (RHNA). The Housing Element update encourages development in areas where the density can be supported by existing infrastructure. Opportunity sites have been identified for accommodation of future and mixed-use development to meet the housing demand. These opportunity sites are identified in Figures 5 through 18 appended to the NOP. In addition, although residential dwellings would be the largest type of development in the City resulting from the Housing Element update, implementation of proposed zoning code and specific plan amendments to allow fulfillment of the City's RHNA would also facilitate the development of housing and mixed-uses as well, including some lower-level

commercial/retail, office, and potentially live/work uses. Areas proposed for rezoning are identified in Figures 12 through 18. It is anticipated that approximately 11,501,959 square feet of non-residential development could be accommodated in the proposed mixed-use zones under the proposed Project. The Public Safety Element could also facilitate development of public infrastructure.

Although the Housing Element update and Zoning Code and Specific Plan amendments themselves would not directly result in increased energy use, future developments in the City could result in an increased consumption of energy resources. However, construction and operation of new housing, public infrastructure, and mixed-use developments in the City would be required to comply with all applicable state, regional and local plans, ordinances, and regulations related to energy efficiency.

#### *Construction Energy Use*

Future housing, public infrastructure, and mixed-use developments throughout the City facilitated through project implementation would meet the residents' varied housing needs. These future developments would occur on parcels that are currently vacant or under-utilized as well as fully improved. Such development would result in construction-related energy demand and consumption related to the use of transportation fuels such as gasoline and diesel for construction workers' vehicle trips, hauling and material delivery, and operation of off-road construction equipment. In addition, diesel-fueled portable generators may be necessary to meet additional electricity demands from temporary on-site lighting, welding, and supplying energy to areas of the construction site where electricity cannot be obtained through a hookup to the existing grid.

Unlike an individual development project for which project-specific construction information is available, it is impractical to quantify construction-related energy consumption for all future development that could contribute incrementally to construction emissions throughout the City. Construction energy consumption would be evaluated for specific future housing and mixed-use developments as future development applications are processed. The amount of fuel consumed by these construction activities for each development would vary substantially, depending on the level of activity, length of the construction period, specific construction operations, types of equipment, and number of personnel. However, the construction of future housing, public infrastructure, and mixed-use developments would involve construction activities typical of most land use developments within the City. None of these future developments would be expected to require an extraordinary amount of energy consumption during construction, as may occur with large industrial facilities such as new power plants or large infrastructure facilities such as dams. Because construction activities are considered to be relatively short-term and cease once construction of an individual project is complete, they would represent a relatively short demand on local and regional fuel supplies and would be easily accommodated. The operation of construction equipment for future housing, public infrastructure, and mixed-use developments would also be required to comply with the latest U.S. Environmental Protection Agency (EPA) and CARB engine emissions standards. These emissions standards require highly efficient combustion systems that maximize fuel efficiency and reduce unnecessary fuel consumption. Because of increasing transportation costs and fuel prices, contractors and owners have a strong financial incentive to avoid wasteful, inefficient, and unnecessary consumption of energy during construction. Overall, construction fuel consumption associated with future housing, public infrastructure, and mixed-use developments in the City would not be any more inefficient, wasteful, or unnecessary than other similar land use development projects of this nature. Impacts would be less than significant.

### *Operational Energy Use*

Energy use associated with operation of future housing, public infrastructure, and mixed-use developments in the City facilitated by the proposed Project would include electricity for interior and exterior building lighting; heating, ventilation, and air-conditioning (HVAC); stoves and other kitchen appliances; cleaning equipment; electronic systems; security systems; and more. Maintenance activities during operations, such as landscape maintenance, could involve the use of electric or gas-powered equipment. However, future developments would be required to comply with the applicable Title 24 Building Energy Efficiency Standards, which have been established for both residential and non-residential uses to provide minimum efficiency standards related to various building features, including appliances, water and space heating and cooling, building insulation and roofing, and lighting. Implementation of the Title 24 standards significantly reduces energy usage. The electricity provider, RPU, is subject to California's RPS. The RPS requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 33 percent of total procurement by 2020 and to 60 percent of total procurement by 2030. Renewable energy is generally defined as energy that comes from resources that are naturally replenished within a human timescale, such as sunlight, wind, tides, waves, and geothermal heat. The increase in reliance of such energy resources further ensures future development facilitated by the proposed Project would not result in the waste of the finite energy resources.

In addition to on-site energy uses, future development facilitated by the proposed Project would also result in transportation energy use associated with vehicle trips generated by the future residential and mixed-use developments. Pursuant to the Federal Energy Policy and Conservation Act of 1975, the National Highway Traffic and Safety Administration (NHTSA) is responsible for establishing additional vehicle fuel standards and revising existing standards. Vehicles associated with future residential and mixed-use developments facilitated by the proposed Project would be subject to future compliance with federal fuel economy standards. In addition, project implementation would accommodate future housing development throughout the City to meet the residents' varied housing needs. Future housing, public infrastructure, and mixed-use developments in the City facilitated by the proposed Project would not result in any unusual characteristics that would result in excessive operational fuel consumption. Some of these future developments would occur on parcels that are currently vacant or under-utilized in the City, which could reduce vehicle miles traveled by future residents where their housing is located within walking distance to commercial and other community-serving uses. The new mixed-use developments, by their nature, would also serve to reduce dependency on automobiles and the number of vehicle miles traveled. Fuel consumption associated with individual development-related vehicle trips would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region.

Overall, future housing, public infrastructure, and mixed-use development activities would adhere to all federal, state, and local requirements for energy efficiency, including the Title 24 standards, and would not result in a substantial increase in demand or transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure. Residential, public infrastructure, and mixed-use development facilitated by the proposed Project would not result in a potentially significant environmental impact due to a wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation. A less-than-significant impact would occur.

***b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?***

**Less-than-Significant Impact.** As discussed above, energy consumption would result from construction and operation of future residential and some non-residential (i.e., mixed use, infrastructure) uses in the City that would be facilitated by the proposed Project. All future residential and mixed-use developments, facilitated by the proposed Project, would be required to comply with the latest requirements of the CBC, which contains the mandatory CALGreen Standards, along with the Building Energy Efficiency Standards. As proposed, all future housing, public infrastructure, and mixed-use development projects would be required to obtain appropriate building permits and meet all current building standards, including, but not limited to, the CBC, California Electrical Code, and California Energy Code (Title 24).

*California Green Building Standards Code*

As discussed previously in the *Affected Environment*, the CBSC (California Code of Regulations, Title 24) is the minimum standard established in law for the design and construction of buildings and structures in California. Within the CBSC, the CBC contains the mandatory CALGreen standards for residential and nonresidential structures, including the 2019 Building Energy Efficiency Standards.

The requirements of CALGreen include, but are not limited to, the following measures:

- Compliance with relevant regulations related to future installation of electric vehicle charging infrastructure in residential and non-residential structures;
- Mandatory periodic inspections of energy systems (i.e., furnace, air conditioner, mechanical equipment) for nonresidential buildings of more than 10,000 square feet to ensure that all are working at their maximum capacity according to their design efficiencies;
- Mandatory use of low-pollutant-emitting interior finish materials such as paints, carpet, vinyl flooring, and particle board; and
- For some single-family and low-rise residential development developed after January 1, 2020, mandatory on-site solar energy systems capable of producing 100 percent of the electricity demand created by the residence(s). Certain residential developments, including those developments that are subject to substantial shading, rendering the use of on-site solar photovoltaic systems infeasible, are exempted from the foregoing requirement.

*Building Energy Efficiency Standards*

The 2019 Building Energy-Efficiency Standards represent a portion of the CBSC, which expands upon energy-efficiency measures from the 2016 Building Energy-Efficiency Standards. The 2019 Building Energy Efficiency Standards are in effect for building permit applications submitted after January 1, 2020.

The 2019 standards provide for additional efficiency improvements beyond the current 2016 standards. Non-residential buildings built in compliance with the 2019 standards are anticipated to use approximately 30 percent less energy compared with buildings built in compliance with the 2016 standards, primarily due to lighting upgrades (California Energy Commission 2019).

For residences, compliance with the 2019 standards will result in homes using approximately 7 percent less energy because of energy efficiency measures compared with homes built under the 2016 standards. Once rooftop solar electricity generation is factored in, homes built under the 2019 standards will use approximately 53 percent less energy than those built under the 2016 standards (California Energy Commission 2018).

Future development would be subject to all relevant provisions of the most recent update to the CBSC, including the Building Energy Efficiency Standards. Adherence to the most recent CALGreen Standards and Building Energy Efficiency Standards would ensure that future residential and mixed-use developments identified on opportunity sites would consume energy efficiently. Required compliance with the CBSC would ensure that the building energy use associated with such future development would not be wasteful, inefficient, or unnecessary. In addition, electricity supplied to future residences and mixed-use developments by RPU would comply with the state's RPS, which requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 33 percent of total procurement by 2020 and 60 percent by 2030. As such, a portion of the energy consumed during operations would originate from renewable sources.

Given that future development facilitated by the proposed Project would be subject to compliance with all federal, state, and local requirements for energy efficiency, project implementation would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency, and a less-than-significant impact would result.

## VII. Geology, Soils, and Paleontological Resources

|  | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|--|-------------------------------------|--|-------------------------------------|--------------------------|
| Would the proposed Project:  |                                     |  |                                     |                          |
| a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:   | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1. 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"/> |
| 2. Strong seismic ground shaking?  | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Seismically related ground failure, including liquefaction?   | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Landslides?   | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Result in substantial soil erosion or the loss of topsoil?  | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the proposed Project and potentially result in an on-site or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?                                      | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?  | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems in areas where sewers are not available for the disposal of wastewater?  | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |

### Affected Environment

#### *Physiography*

The City is situated north of the Peninsular Ranges and south of the Transverse Range, with the San Bernardino Mountains to the north and the San Jacinto Mountains to the east. Elevations in the City range from approximately 700 feet amsl near the Santa Ana River to almost 1,400 feet amsl west of La Sierra. Land within the City is mostly flat, with natural slopes of less than 15 percent, although some slopes of 25 percent are found in the eastern and western portions of the City. Steeper slopes exist outside the City but within its SOI (Albert A. Webb Associates 2007).

### *Subsurface Conditions*

The City is generally underlain with subsurface deposits dating from the Mesozoic period, consisting of granite, adamellite, Mesozoic granitic rock, granodiorite, and Mesozoic basic intrusive rocks. Alluvium deposits date from the Quaternary (Albert A. Webb Associates 2007).

### *Seismicity and Seismic Hazards*

#### **Primary Seismic Hazards**

##### ***Surface Fault Rupture***

The City lies in a seismically active area of the United States; however, no Alquist-Priolo Fault Zones or active faults has been mapped within the General Plan area (City of Riverside 2007). As shown in Figure 7-1 of the GP 2025, the active faults include the San Andreas fault, the San Jacinto fault, and the Elsinore fault. In a seismically active area, the potential of future faulting occurring in areas where faults have not been mapped exists; however, the risk of surface fault rupture in the City is considered low.

##### ***Seismic Ground Shaking***

Ground shaking is the most widespread hazardous phenomenon associated with seismic activity, and the City is located within a seismically active area. Several known faults in the region have the potential to generate significant seismic ground shaking. The San Andreas fault is within 11 miles of downtown and capable of producing an 8.3 magnitude (M) earthquake, the San Jacinto fault is approximately 7 miles from downtown and capable of producing a 7.0 M earthquake, and the Elsinore fault is within 13 miles of downtown and capable of producing a 6.0 M earthquake (City of Riverside 2007). The risk of seismic ground shaking in the area is considered high.

#### **Secondary Seismic Hazards**

##### ***Liquefaction***

Liquefaction occurs when saturated soils lose cohesion, strength, and stiffness with applied shaking, such as that from an earthquake. The lack of cohesion causes solid soil to behave like a liquid, resulting in ground failure. When a load such as a structure is placed on ground that is subject to liquefaction, ground failure can result in the structure sinking and soil being displaced. Ground failure can take on many forms, including flow failures, lateral spreading, lowering of the ground surface, ground settlement, loss of bearing strength, ground fissures, and sand boils. Liquefaction within subsurface layers, which can occur during ground shaking associated with an earthquake, can also result in ground settlement.

The majority of the City has not been evaluated for liquefaction by the California Geological Survey (California Geological Survey 2021). However, soils prone to liquefaction are located throughout the City, particularly along watercourses, arroyos, and the Santa Ana River. Riverside has four primary liquefaction areas, the area along the Santa Ana River, a broad area south and west of Riverside Municipal Airport, a portion in western Riverside spanning La Sierra Avenue, and a smaller area along the City's southern boundary. Most of the land in the SOI is not susceptible to liquefaction (City of Riverside 2007).

### ***Lateral Spreading***

Lateral spreading is a phenomenon in which a surficial soil displaces along a shear zone that formed within an underlying liquefied layer. The surficial blocks are transported downslope or in the direction of a free face, such as a bay or creek, by earthquake and gravitational forces. Lateral spreading is generally the most pervasive and damaging type of liquefaction-induced ground failure generated by earthquakes. In general, for lateral spreading to occur, soils must consist of saturated, cohesionless sandy sediments in an area where there is a high groundwater table and an open face such as a cliff or streambank. The risk of lateral spreading in the City is highest near the Santa Ana River and along arroyos and watercourses.

### ***Expansive Soils and Weak Soils***

Expansive soils are characterized by their ability to undergo significant volume changes (i.e., shrink and swell) due to variations in moisture content. Expansive soils are typically very fine grained and have a high to very high percentage of clay. They can damage structures and buried utilities and increase maintenance requirements. The presence of expansive soils is typically associated with high clay content. Generally, future development in areas with expansive soils may require special building foundations or grade preparation, such as the removal of problematic soils and replacement with engineered soils. However, the relative strength or weakness of alluvial soils also depends on the combination of clay and sand.

Soils considered to have a high shrink-swell potential occur primarily west of Riverside Municipal Airport and within the Lake Mathews drainage area but can be found throughout the City (City of Riverside 2007). The highest risk of impacts resulting from expansive soils are expected to be near the airport and the Lake Mathews drainage area, though other areas may be affected as well.

Weak soils can compress or collapse under the weight of buildings and fill, causing settlement relative to the thickness of the weak soil. Usually the thickness of weak soil varies, and differential settlement does occur. Some weak soils, specifically unconsolidated settlements, can amplify shaking during an earthquake and, when saturated, can be susceptible to liquefaction.

Soil associations in the City are generally well-drained sandy loams that are moderately deep; however, weak soils have been found in the north western portion of the City, in the area surrounding State Route 91 (Albert A. Webb Associates 2007). The highest risk of impact resulting from weak soils is expected to be in the northeastern part of the City, though other areas may be affected as well.

### ***Erodible Soils***

Soils erosion is a natural process by which soil particles are removed by wind, water, or gravity. Different soils will have different susceptibilities to erosion, depending on particle size, gradation, organic structure, and permeability. In addition, topography, including the length and steepness of a slope, and the presence of vegetative cover influence a soil's susceptibility to erosion. Soils containing a high percentage of silt or very fine clay are generally the most erodible.

The City is underlain by areas that are susceptible to erosion. Soils with high potential for erosion are particularly prevalent in the northwest portion of the City, near Arlington Avenue; the southeast portion of the City, near Gentian Avenue; and south of Lake Mathews (Albert A. Webb Associates 2007).

## ***Landslides***

Landslides occur when the stability of a slope changes from a stable to an unstable condition. The stability of a slope is affected by the following primary factors: inclination, material type, moisture content, orientation of layering, and vegetative cover. In general, steeper slopes are less stable than more gently inclined ones. Although most of the City is relatively flat, the western and northeastern portions of the City are susceptible to landslides and rockfalls (City of Riverside 2007).

## ***Paleontological Resources***

Fossils (paleontological resources) preserve information about ancient animals and plants (University of California Museum of Paleontology n.d.). There are two types of fossils: body fossils (remains of an organism) and trace fossils (e.g., footprints, burrows, trails). Fossils can add to the scientific record by providing information about the anatomy of an organism and clues to its life processes, the successive evolutionary evolution of organisms, and successive colonization of habitats. Fossils are a nonrenewable resource; that is, once destroyed, a fossil cannot be replaced. Fossils represent irreplaceable evidence of past life on the planet (National Park Service 2020).

Fossils occur within geologic units. A geologic unit is a volume of rock or sediment of identifiable origin with an age range that is defined by distinctive and dominant features. Generally, geologic units of middle Holocene age (last approximately 5,000 years) are too recent to yield significant fossils, but geologic units in certain older depositional environments have the potential to yield significant fossils (Society of Vertebrate Paleontology 2010). *Significant fossils* (or sensitive paleontological resources) are defined by the Society of Vertebrate Paleontology (2010) as being “identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data” that provide information valuable to the scientific community. Geologic units have varying potential to contain significant fossils, called *paleontological sensitivity*.

The following analysis is based on information presented in a report from the California Museum of Paleontology describing fossils retrieved near the project area, a report prepared for RPU regarding the study area (Powers Engineers 2010), and the County of Riverside Paleontological Sensitivity Model. The analysis evaluates the likelihood of significant paleontological resources being present in geologic units with high paleontological sensitivity in the study area.

Mapping in the study area shows surficial deposits as Dune sand, Holocene alluvium, Pleistocene nonmarine deposits, and Mesozoic granitic rocks (Rogers 1965, 1967; Power Engineers and Deméré 2010). The granite rocks ring the lower elevations of the City (Power Engineers 2010). Paleozoic and Mesozoic metamorphic rock, late Mesozoic plutonic rock, and Cretaceous and Cenozoic sedimentary rock underlie the surficial units. Sedimentary geologic units underlying the study area that are older than the Holocene (i.e., Dune sand and Holocene alluvium) have the potential to contain significant paleontological resources.

Significant paleontological resources exist in many areas in Southern California, including in Riverside County near the City. According to the investigation executed by the Natural History Museum of Los Angeles County, several vertebrate fossils have been recovered from unspecified Pleistocene geologic units and the early Pliocene to early Pleistocene San Timoteo Formation (Bell pers. comm.). Fossils that were recovered include *Masticophis* (a genus of whip snake) and members of the Bovidae, Equidae, and Camelidae families. In addition, a south-trending bend in the Santa Ana River yielded fossils from Ice Age mammals, including *Mammuthus* (an extinct genus of mammoth) (Albert A. Webb Associates 2007). Because people collected fossils from the site and lands along the Santa Ana River in this area have been converted to residential development, the previous exposure that yielded the fossils is no longer visible.

The County of Riverside Paleontological Sensitivity Model maps paleontological sensitivity throughout Riverside County, including the City of Riverside. It recognizes four categories of sensitivity, High A, High B, Low, and Undetermined. According to the Society of Vertebrate Paleontology (2010), a geologic unit with undetermined paleontological sensitivity requires a field study by a qualified paleontologist to determine the paleontological potential of this unit before an impact determination and mitigation program can be made. Accordingly, geologic units with High A, High B, and Undetermined paleontological sensitivity have the potential to yield significant paleontological resources.

The County of Riverside Paleontological Sensitivity Model shows that most of the area within the City limits contains geologic units with High A, High B, or Undetermined paleontological sensitivity, with a minority containing geologic units with low paleontological sensitivity.

## Discussion

*a.1. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: 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.*

**Less-than-Significant Impact.** As discussed under *Primary Seismic Hazards*, although the City lies within a seismically active area, no Alquist-Priolo Fault Zones or active faults transverse the City. The proposed Project could result in the development and construction of new housing and public safety infrastructure. Although the proposed Project would provide the framework for future development, no specific development projects are proposed as part of these changes. Policy PS-1.1 of GP 2025 ensures that that all new development in Riverside abides by the most recently adopted City and state seismic and geotechnical requirements. As such, any future development occurring because of the proposed Project would require a geotechnical investigation and/or compliance with the CBC, which would address the risk of fault rupture. The proposed Project, which consists of changes to elements of GP 2025 would not exacerbate the risk of surface fault rupture. Because the risk of fault rupture is considered low in the City, development resulting from the proposed Project would be required to prepare a geotechnical investigation disclosing the site-specific risk of fault rupture at a future development site, and the proposed Project would not exacerbate the risk of surface fault rupture, this impact would be less than significant.

*a.2. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: Strong seismic ground shaking?*

**Less-than-Significant Impact.** As discussed under *Primary Seismic Hazards*, the City is in a seismically active area near several active faults that can produce earthquakes of 6.0 M or greater. Seismic ground shaking could be felt throughout the City. The proposed Project could result in the development and construction of new housing and public safety infrastructure. As such, future developments constructed because of the proposed Project could experience seismically related ground shaking during an earthquake. However, future development resulting from the proposed Project would be required to comply with general plan policies and CBSC requirements, which would require preparation of a geotechnical investigation, thereby reducing risks to life from damage to newly constructed buildings and structures as the result of seismic ground shaking. As the proposed Project would not exacerbate the risk of ground shaking, future developments facilitated by the proposed Project would be required to comply with General Plan policies and building code requirements, this impact would be less than significant.

***a.3. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: Seismically related ground failure, including liquefaction?***

**Less-than-Significant Impact.** As discussed under *Secondary Seismic Hazards*, although soils that are prone to liquefaction are located throughout the City, the highest liquefaction risk is concentrated in four areas, the area along the Santa Ana River, the area south and west of Riverside Municipal Airport, an area in western Riverside spanning La Sierra Avenue, and a smaller area along the City's southern boundary. Although the proposed Project would not include any specific developments, the Housing and Public Safety Elements updates, development of environmental justice policies, and Zoning Code and specific plan amendments, could result in the development and construction of new housing, mixed-use, and public safety infrastructure. Development could be proposed on parcels that are underlain by liquefiable soils. However, future development resulting from the proposed Project would be required to comply with General Plan policies, such as Policy PS-1.6, which requires the City building official to explore and implement, where feasible, best practices and latest technologies to minimize damage to structures in areas determined to have a high liquefaction potential during seismic activities. In addition, future development resulting from the proposed Project would comply with CBSC requirements (e.g., submission of a preliminary soils report and a soils engineering analysis). The report would identify any liquefiable soils at the development site and provide recommendations to reduce the risk associated with liquefaction. Because any future development occurring as a result of the proposed Project on potentially liquefiable soils would comply with general plan policies and CBSC requirements and may require a soils report and engineering analysis that would provide recommendations to reduce the risk of liquefaction during a seismic event, the proposed Project would result in a less-than-significant impact related to liquefaction.

**Less-than-Significant Impact.** As discussed under *Expansive Soils and Weak Soils*, weak soils are present in different areas of the City, and although the proposed Project would not include any specific development, changes to the General Plan could provide for future development of residential units, which could be proposed on these soils. However, as discussed above regarding liquefaction, future development resulting from the proposed Project would comply with CBSC requirements, which could require the submission of a preliminary soils report and a soils engineering analysis, depending on the site. The report would identify any weak soils at development sites and provide recommendations to reduce the risks associated with construction on these parcels. Because any future development facilitated by the proposed Project would comply with the recommendations in the applicable soils report, as well as standard regulations required by the CBC, the proposed Project would result in a less-than-significant impact related to weak soils.

**Less-than-Significant Impact.** As discussed under *Lateral Spreading*, lateral spreading poses the greatest risk in cohesionless sandy sediments over a high groundwater table in the vicinity of an open face, such as a cliff or a streambank. The risk of lateral spreading in the City is highest near the Santa Ana River and along arroyos and watercourses; none of the opportunity sites are in these areas. While the proposed Project does not include any specific development, changes to the general plan could provide for future development of housing and mixed-use development at opportunity sites, which could place development in areas that are at risk of lateral spreading. However, any development resulting from the proposed Project would be required to comply with standard regulatory requirements of the CBC, which would require construction, including foundations, to be designed to minimize risk resulting from lateral spreading. Future developments would also be subject to GP 2025 Policy PS-1.1, which would ensure that all new development in the City would abide by the most recently adopted City and state seismic and geotechnical requirements. The proposed Project would result in a less-than-significant impact related to lateral spreading.

***a.4. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: Landslides?***

**Less-than-Significant Impact.** As discussed under *Landslides*, although most of the City is relatively flat, the western and northeastern portions are susceptible to landslides and rockfalls. Although the proposed Project would not include any specific developments, the proposed Project could result in the development and construction of new housing, public safety infrastructure, and mixed-use development on opportunity sites. However, GP 2025 includes policies that limit development on steep or unstable slopes, and none of the opportunity sites are in these areas. Policy PS-1.4 recommends the use of open space easements and other regulatory techniques to prohibit development and avoid creating public safety hazards where geologic instability is identified and cannot be mitigated. Because future development projects facilitated by the proposed Project would comply with policies in GP 2025, the proposed Project would result in a less-than-significant impact related to landslides.

***b. Result in substantial soil erosion or the loss of topsoil?***

**Less-than-Significant Impact.** Although the proposed Project would not include any specific developments, the proposed Project could result in the development and construction of new housing, mixed-use development, and public safety infrastructure at opportunity sites. As a result, new development could occur on a variety of slopes, grades, and soil types where erosion could occur. As discussed under *Erodible Soils*, soils with a high susceptibility to erosion are located throughout the City but are especially prevalent in the northwest portion of the City near Arlington Avenue and in the southeast portion of the City near Gentian Avenue. . Development facilitated by the proposed Project could require excavation, stockpiling of spoil materials, and grading, which could expose soils to erosion or lead to the loss of topsoil. However, as discussed in Section X, *Hydrology and Water Quality*, development of sites one acre or larger facilitated by the proposed Project would require a Stormwater Pollution Prevention Plan (SWPPP) in compliance with the Construction General Permit, local stormwater ordinances, and other related requirements. The SWPPP would require best management practices (BMPs) for earthmoving and clearing activities to minimize any mobilization of sediment, stabilize disturbed areas, and control sediment. Because the proposed Project itself does not include any construction that could lead to erosion, and future developments facilitated by the proposed Project would be required to implement a SWPPP that would include erosion control BMPs, this impact would be less than significant.

***c. Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the proposed Project and potentially result in an on-site or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?***

**Less-than-Significant Impact.** Although the proposed Project would not include any specific developments, the proposed Project could result in the development and construction of new housing, public safety infrastructure, and mixed-use development, which could be located on parcels that are underlain by liquefiable soils. Liquefaction is discussed above in Impact a.3.

Soil type and groundwater depth vary across the City, but it is assumed that the risk of lateral spreading is highest near the Santa Ana River and along arroyos and watercourses, areas where the risk for liquefaction is higher than it is in the rest of the county. Lateral spreading is discussed above in Impact a.3.

Although the proposed Project would not include any specific developments, future developments that could result from the proposed Project could be placed on geologic unit or soil that is unstable or that would become unstable because of the proposed Project. However, any development resulting

from the proposed Project would be required to comply with CBSC requirements, which would require submission of a preliminary soils report and a soils engineering analysis to identify unstable geologic units and/or soils. The report would provide recommendations to reduce the risk associated any potential instability at a future development site. Future developments would also be subject to GP 2025 Policy PS-1.1, which would ensure that all new development in the City would abide by the most recently adopted state seismic and geotechnical requirements. Because the proposed Project would not construct any new development, and future development resulting from the proposed Project would be required to abide CBSC requirements and City policies, the proposed Project would result in a less-than-significant impact related to the placement of structures on an unstable geologic unit or soil.

***d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?***

**Less-than-Significant Impact.** As discussed under *Expansive Soils and Weak Soils*, the City is underlain by soils with a high shrink-swell potential, particularly in the area west of Riverside Municipal Airport and within the Lake Mathews drainage area. Although the proposed Project would not include any specific developments, future developments that could result from the proposed Project could be placed on expansive soils. However, future development facilitated by the proposed Project would comply with CBSC requirements, which would require the submission of a preliminary soils report and a soils engineering analysis. The report would identify any expansive soils at development sites and provide recommendations to reduce the risks associated with construction on these parcels. Because any future development facilitated by the proposed Project would comply with the recommendations in the applicable soils report, as well as standard regulations required by the CBC, the proposed Project would result in a less-than-significant impact related to expansive soils.

***e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems in areas where sewers are not available for the disposal of wastewater?***

**Less-than-Significant Impact.** Although the proposed Project would not include any specific developments, the City's Housing and Public Safety Elements and environmental justice updates could result in the development and construction of new housing and mixed-use development and public safety infrastructure. The opportunity sites are located near existing wastewater infrastructure. As discussed in Section XIX, *Utilities and Service Systems*, development resulting from the proposed Project would connect predominantly to existing water and wastewater disposal lines maintained by the City of Riverside Public Works Department and would not rely on septic tanks or alternative wastewater disposal systems. However, it is possible that some housing units, such as accessory dwelling units, could be constructed on sites that are served by septic systems. This development is expected to be minimal and a negligible percentage of overall housing development. It would most likely not be located on soils that would be incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems. As such, the impact would be less than significant.

***f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?***

**Potentially Significant Impact.** Because paleontological resources are generally located below the ground surface, ground disturbance associated with construction, such as excavating, grading, and resurfacing, in a geologic unit that may contain significant fossils could affect paleontological resources that may be present at the site. The proposed Project would enable future development and the construction of new housing, public safety infrastructure, and mixed-use development. In identifying opportunity sites, attempts have been made to eliminate locations with high

paleontological sensitivity. The Public Safety Element could also facilitate development of new public infrastructure. Accordingly, future developments facilitated by the proposed Project could involve ground disturbance. Depending on the depth of disturbance and how far below ground surface the paleontological resources may be located, these ground disturbances have the potential to damage or destroy such resources.

As discussed above, the County of Riverside Paleontological Sensitivity Model shows that most of the area within the City limits contains geologic units with High A, High B, or Undetermined paleontological sensitivity, with a minority containing geologic units with Low paleontological sensitivity. Because the opportunity sites under the proposed Project are situated throughout the City, it is likely that some of these sites are located on geologic units with High A, High B, or Undetermined paleontological sensitivity. Project construction could disturb previously unknown significant fossils, potentially damaging or destroying these fossils. It is unlikely that operation of the proposed Project would include ground-disturbing activities. However, future development facilitated by the proposed Project could result in the need for operations-period ground disturbance, such as landscaping or maintenance. Depending on the location and depth of ground disturbance, proposed operations could disturb previously unknown significant fossils, potentially damaging or destroying such fossils.

GP 2025 Policy HP-1.3 protects paleontological resources. The policy states that the City shall protect sites of archaeological and paleontological significance and ensure compliance with all applicable state and federal cultural resources protection and management laws in its planning and project review process. However, despite compliance with Policy HP-1.3, impacts would remain potentially significant and this topic will be evaluated in the forthcoming EIR.

## VIII. Greenhouse Gas Emissions

|   | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact | No Impact                |
|---|-------------------------------------|--|------------------------------|--------------------------|
| Would the proposed Project:   |                                     |  |                              |                          |
| a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?       | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| b. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |

### Affected Environment

Increases in fossil fuel combustion and deforestation have increased concentrations of GHGs in the atmosphere. Rising atmospheric concentrations of GHGs more than natural levels result in increasing global surface temperatures—a phenomenon commonly referred to as *climate change*. The primary associated GHG emissions are carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), and fluoridated compounds. Assembly Bill (AB) 32 sets forth the regulatory framework in California to reduce emissions to 1990 levels by 2020. SB 32 builds on AB 32 and establishes a longer-term goal of 40 percent below 1990 levels by 2030. Unlike criteria pollutants, which are primarily pollutants of regional and local concern, GHGs are a global problem, and GHG impacts are inherently cumulative.

As part of the City of Riverside’s Climate Economic Prosperity Action Plan and Climate Action Plan (CAP), prepared in 2016, the City developed a community-wide baseline GHG emissions inventory; according to Appendix C of the RRO-CAP, 2007 and 2010 inventories were used as a baseline for modeling done in 2016.

### Discussion

***a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?***

**Potentially Significant Impact.** The proposed Project, which includes Housing and Public Safety Elements updates, development of environmental justice policies, and Zoning Code and Specific Plan amendments, would not directly result in any construction-related or operational GHG emissions. However, subsequent housing, public infrastructure, and mixed-use developments facilitated by the Housing and Public Safety Element updates could result in GHG emissions from their future construction and operation. Consequently, the proposed Project has the potential to have an indirect significant impact on the environment. The impact is potentially significant and will be analyzed in the forthcoming EIR.

***b. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?***

**Potentially Significant Impact.** The City adopted its CAP in January 2016. The CAP includes baseline and forecast GHG inventories, reduction targets, and measures to reach those targets (City of Riverside 2016). The construction of new housing, mixed-use development, and public infrastructure facilitated by the proposed Project could increase forecast emissions in the city, above emissions

levels projected in the CAP, which may impede attainment of the CAP targets. The proposed Project could result in a potentially significant impact related to a conflict with applicable plans, policies, or regulations adopted for the purpose of reducing emissions of GHGs. This impact is potentially significant and will be analyzed in the forthcoming EIR.

## IX. Hazards and Hazardous Materials

|  | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|--|-------------------------------------|--|-------------------------------------|--------------------------|
| Would the proposed 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 checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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 checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| c. Emit hazardous emissions or involve handling hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| d. Be located on a site that 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 checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| e. Be located within an airport land use plan area or, where such a plan has not been adopted, be within two miles of a public airport or public use airport, and result in a safety hazard or excessive noise for people residing or working in the project area? | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?  | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### Affected Environment

Hazardous materials in various forms can cause death, serious injury, or long-lasting health effects and damage buildings, homes, and other property. Hazards to human health and the environment can occur during the production, storage, transportation, use, or disposal of hazardous materials. *Household hazardous waste* refers to the used or leftover contents of consumer products that contain materials with one of the four characteristics of a hazardous waste, toxicity, ignitability, corrosivity, or reactivity. Other important areas of concern for the analysis of hazards and hazardous materials under CEQA are Airport Influence Areas (AIAs), which are used in land use planning to identify areas that are commonly overflowed by aircraft as they approach and depart an airport or as they fly within established airport traffic patterns. Other considerations are disaster preparedness and emergency response, which are important for establishing the most effective and efficient ways to address issues regarding hazards and minimize their effects on life and property, reduce the potential for disasters, and recover from the effects of disasters as quickly as possible.

### *Hazardous Materials*

A review of the State Water Resources Control Board's GeoTracker and the Department of Toxic Substances Control's (DTSC's) EnviroStor identified multiple hazardous material cleanup sites within the City, including Leaking Underground Storage Tank (LUST) Cleanup Sites, Cleanup Program Sites, Military Cleanup Sites, and DTSC Cleanup Sites located throughout the City. A brief description of the sites is included below.

- **LUST Cleanup Sites:** Includes all Underground Storage Tank (UST) sites that have had an unauthorized release (i.e., leak or spill) of a hazardous substance.
- **Cleanup Program Sites:** Includes all "non-federally owned" sites that are regulated under the State Water Resources Control Board's Site Cleanup Program and/or similar programs conducted by each of the nine Regional Water Quality Control Boards.
- **Military Cleanup Sites:** Includes all cleanup sites that are located on existing military bases or those that are to be transferred.
- **DTSC Cleanup Sites:** There are several sub-categories within the DTSC's Cleanup Sites category. These can include Cal-Mortgage, Evaluation, Federal Superfund, Formerly Used Defense Sites, School, State Response, and Voluntary Cleanup sites.

Typically, residential and institutional land uses are not associated with a significant impact from hazardous materials. Although several chemicals and other hazardous materials are used in households, including automotive batteries and fluids, such as oil, paints, and cleaning chemicals, several programs and facilities have been established for proper disposal of these materials.

### *Schools*

According to the GP 2025's Education Element, the City hosts three universities (University of California, Riverside; California Baptist University; La Sierra University), a college (Riverside Community College), two school districts (Riverside and Alvord Unified School Districts), and several private schools throughout the City.

### *Airports*

Riverside Municipal Airport is within the western portion of the City limits (and is the only airport within the City). The airport includes two intersecting runways and occupies some 441 acres. March Air Reserve Base and Flabob Airport are adjacent to the City, in Riverside County.

## **Discussion**

### ***a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?***

**Less-than-Significant Impact.** Implementation of the proposed Project would lead to additional development as well as other land use activities that would require the routine transport, use, or disposal of hazardous materials and hazardous wastes within the City. If accidentally released, these materials could result in exposure risks for construction personnel and nearby residents. Such transport, use, and disposal must comply with applicable federal and state regulations, such as the Resource Conservation and Recovery Act, Department of Transportation Hazardous Materials Regulations, etc. Although fuel, paint products, lubricants, solvents, cleaning products, and fertilizers would be transported, used, and disposed of, these materials are typically used in construction projects and would not represent the transport, use, and disposal of acutely hazardous materials.

For facilities that handle hazardous materials during operations, California Health and Safety Code Section 25507 requires businesses to establish and implement a Hazardous Materials Business Plan for emergency response to a release or threatened release of a hazardous material. This requirement applies to businesses that handles a hazardous material or a mixture above the thresholds described in Section 25507.

Because of the nature of residential and some commercial development, especially mixed-use developments, only common hazardous materials, such as solvents, paints, and fuels, would be used. These materials would be used infrequently and in small amounts. Releases involving these materials would be localized and cleaned up as they occur. The routine transport, use, or disposal of hazardous materials associated with implementation of the proposed Project would be a less-than-significant impact.

***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?***

**Potentially Significant Impact.** As mentioned under the *Affected Environment*, LUST Cleanup Sites, Cleanup Program Sites, Military Cleanup Sites, and DTSC Cleanup Sites exist throughout the City. As such, hazardous materials sites with the potential for contaminated on-site soil and/or groundwater exist. It is possible that implementation of the updates to the proposed Project could result in development occurring within or immediately adjacent to one of these hazardous materials sites, especially if new residential and mixed-use development facilitated by the proposed Project occurs in previously designated industrial areas. Depending on the contaminant characteristics and extent of contamination, excavation activities conducted during construction could encounter contaminated groundwater and/or contaminated soil. Contaminated sites would require remediation in coordination with the applicable federal, state, and/or local agency (e.g., EPA, State Water Resources Control Board, DTSC, or the Environmental Health or Fire Department). For contaminated sites, construction could also require implementation of engineering controls to minimize the risk of potential exposure to hazardous waste for construction personnel and the surrounding environment. Because of the potential for significant impacts, this topic will be analyzed further in the forthcoming EIR.

***c. Emit hazardous emissions or involve handling hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?***

**Potentially Significant Impact.** School sites are located throughout the City, and implementation of the proposed Project could result in construction occurring near an existing or proposed school. Construction activities arising from the proposed Project would involve the routine transport, use, and disposal of hazardous materials; however, these would be materials that are typically used in construction projects and would not include acutely hazardous materials. The transport, use, and disposal of typical construction hazardous materials would comply with applicable federal, state, and local regulations.

Because there are multiple hazardous material cleanup sites within the City's boundaries, it is possible that the proposed Project could result in development in contaminated areas near a school site. However, contaminated sites would require remediation in coordination with the applicable federal, state, and/or local agency. They could also require implementation of engineering controls to minimize the risk of exposure for construction personnel and the surrounding environment, including nearby schools. This topic will be analyzed further in the forthcoming EIR.

*d. Be located on a site that 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?*

**Potentially Significant Impact.** A review of the State Water Resources Control Board’s GeoTracker and DTSC’s EnviroStor websites identified multiple hazardous material cleanup sites within City boundaries, including State Water Resources Control Board LUST Cleanup Sites, Cleanup Program Sites, and Military Cleanup Sites and DTSC Cleanup Sites (State Water Resources Control Board and DTSC 2020). Because the proposed Project would promote additional development, including in industrial areas that could be rezoned for residential and/or mixed uses, it is possible that construction could occur within or immediately adjacent to one of the aforementioned hazardous material cleanup sites, including sites classified as “Cortese List” sites.<sup>2</sup> Soil and groundwater disturbances within these locations have the potential to expose construction personnel and the surrounding environment to hazardous waste. Sites under the purview of the State Water Resources Control Board or DTSC would be required to undergo remediation and cleanup to the satisfaction of said agencies before construction activities could commence. Hazardous waste handled during remediation would require compliance with all applicable federal, state, and local laws. This topic could result in potentially significant impacts and will be analyzed in the forthcoming EIR.

*e. Be located within an airport land use plan area or, where such a plan has not been adopted, be within two miles of a public airport or public use airport, and result in a safety hazard or excessive noise for people residing or working in the project area?*

**Less-than-Significant Impact.** Because the proposed Project could occur in all parts of the City, the potential exists for development to occur within Riverside Municipal Airport’s AIA and to be subject to noise level restrictions, along with intensity and height limitations within aircraft hazard zones (County of Riverside 2005a). According to the 2005 Riverside County Airport Land Use Compatibility Plan Policy Document (County of Riverside 2005b), the AIA for Riverside Municipal Airport is characterized as follows: The instrument approach route and typical extent of the airport traffic pattern define the of the AIA boundary for Riverside Municipal Airport. To the east and west, this boundary coincides mostly with the outer edge of the airport’s FAR Part 77 conical surface. A westward extension encompasses locations where aircraft on a precision instrument approach are lower than 1,000 feet above the airport elevation.

As mentioned, construction facilitated as a result the City’s Housing and Public Safety Element updates would be required to adhere to intensity and height limitations within aircraft hazard zones. Flabob Airport is a small public-use airport north of the Sana Ana River in the City of Jurupa Valley. March Air Reserve Base is also outside the City; however, it is not a public use airport. The proposed Project would not propose future residential and/or mixed-use development on opportunity sites within a flight path or a restricted AIA for any of the airports within or adjacent to the City. The proposed Project would not result in a change in air traffic patterns or result in a safety hazard for people residing or working in the City, and there would be a less-than-significant impact.

Although development occurring within an AIA would be subject to noise level restrictions, the potential exists for noise impacts to result in potentially significant effects due to proximity to an airport. This could require further consideration to identify mitigation to reduce potential impacts.

---

<sup>2</sup> Facilities or sites identified as meeting the Cortese List requirements include (a) hazardous waste and substance sites from DTSC’s EnviroStor database, (b) LUST sites from the State Water Board’s GeoTracker database, (c) active “cease and desist” orders and “cleanup and abatement” orders, and (d) hazardous waste facilities subject to corrective action identified by DTSC (California Environmental Protection Agency 2021).

Additional details are provided in this document under Section XIII, *Noise*. As such, potentially significant impacts associated with noise will be analyzed in the forthcoming EIR under the resource area pertaining to noise.

***f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?***

**Less-than-Significant Impact.** The City's Office of Emergency Management (OEM), also known as the Riverside Fire Department (RFD) Emergency Services Division, administers an all-hazards community-based emergency management program. RFD ensures multi-jurisdictional cooperation and communication for emergency planning and response management through activation of the Standardized Emergency Management System (SEMS). Also, pursuant to requirements of the Disaster Mitigation Act of 2000, the City, along with the County of Riverside, prepared the Riverside County Operational Area Multi-Jurisdictional Local Hazard Mitigation Plan (most recent iteration was prepared in July 2018). The purpose of the plan is to identify Riverside County's hazards (including within the City), review and assess past disaster occurrences, estimate the probability of future occurrences, and set goals to mitigate potential risks and reduce or eliminate long-term risks to people and property from natural and man-made hazards (County of Riverside 2018).

The GP 2025 includes several policies related to emergency plan implementation. Policies PS-9.1 and PS-9.3 require the City to maintain and test the City's Emergency Operations Plan. Policy PS-9.5 ensures that the City will provide information to the public regarding disaster preparedness. Policy PS-9.7 and PS-9.8 require the City to identify actions to reduce the severity and risk to the community from hazards. Policy PS-10.3 ensures that public safety infrastructure and staff resources will keep pace with new development. Policy PS-10.4 ensures that development will have adequate ingress and egress. Policy PS-10.5 requires coordination to educate the community about hazard safety. Policy PS-10.6 ensures coordination between the City and public safety departments. Policy PS-10.7 and Policy PS-10.8 encourage funding for emergency response programs. Policy PS-10.9 requires the City to maintain the Emergency Operations Center and allow for expansion (City of Riverside 2018). The updates to the Public Safety Element, as part of the proposed Project, will also address emergency response and preparedness in the City, including the provision of high-quality and responsive emergency management services to all residents and businesses in Riverside.

With continued use of SEMS and the Riverside County Operational Area Multi-Jurisdictional Local Hazard Mitigation Plan, as well as implementation of GP 2025 policies and Public Safety Element principles, goals, policies, and actions developed for the proposed Project, the proposed Project would result in less-than-significant impacts.

## X. Hydrology and Water Quality

|   | Potentially Significant Impact | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|---|--------------------------------|--|-------------------------------------|--------------------------|
| Would the proposed Project:   |                                |  |                                     |                          |
| a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?   | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the proposed Project may impede sustainable groundwater management of the basin?                        | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would: | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1. Result in substantial erosion or siltation on- or off-site;  | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site;   | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or                               | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Impede or redirect floodflows?   | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?   | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?   | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### Affected Environment

#### *Surface Hydrology*

The City is located predominantly within the Regional Water Quality Control Board (RWQCB) Middle Santa Ana River Watershed Management Area and the Santa Ana Hydrologic Unit/Watershed. A small area in the southeastern section of the City is in the Perris Valley drainage area of the San Jacinto Watershed. The major surface water feature in the City is the Santa Ana River on the northern boundary of the City, along with several arroyos and canals that cross the City, including Riverside Canal, Sycamore Canyon, Gage Canal, and Spring Brook River/Wash. There are 11 primary drainage areas, 10 of which eventually flow into the Santa Ana River. Surface drainage generally flows in a northerly direction.

The headwaters of the Santa Ana River are in the San Bernardino Mountains. The river flows more than 100 miles to the Pacific Ocean. The Santa Ana River Watershed drains 2,840 square miles, covering portions of San Bernardino, Riverside, and Orange Counties (Water Education 2021). Santa Ana River Reach 3 is the receiving water for most of the City. Several arroyos, either in their natural state or piped underground, are tributary to the Santa Ana River across the City. The major arroyos include Springbrook Wash, Tequesquite Arroyo, Alessandro Arroyo, Prenda Arroyo, Woodcrest Arroyo, and Mockingbird Canyon. The area of the City within the San Jacinto Watershed is drained by the Perris Valley Storm Drain, which flows into the San Jacinto River. The headwaters of the San Jacinto River are in the San Jacinto Mountains. The river drains to Canyon Lake and ultimately to Lake Elsinore. Approximately 80 percent of the City is covered with impervious surfaces (City of Riverside 2016). Local drainage facilities generally consist of underground closed conduits and storm drains, primarily in developed portions of the City. These collect and convey stormwater to regional facilities, including the Santa Ana River.

### *Water Quality*

Water quality in a typical surface water body is influenced by processes and activities that take place within the watershed. The quality of the stormwater runoff from within the City is typical of urban watersheds where water quality is affected primarily by discharges from both point and nonpoint sources, including winter storms, overland flows, exposed soils, roofs, parking lots, and streets. Water quality in the project vicinity is affected directly by stormwater runoff from streets and properties, which deliver fertilizers; pesticides; automobile/traffic-related pollutants (e.g., oil, grease, metals); sediment, with associated attached pollutants from soil erosion; trash; and other pollutants.

Constituents or pollutants in stormwater runoff vary with surrounding land uses, impervious surface area, and topography as well as with the intensity and frequency of rainfall or irrigation. The City is generally developed. The ground surface is covered by pavement (roads and parking lots) or structures (homes, offices, and commercial buildings); however, there are also open space areas. Street surfaces are the primary sources of pollutants in stormwater runoff in urban areas.

Common sources of stormwater pollution in urban areas include construction sites; parking lots; large landscaped areas, with associated fertilizers and pesticides; and household and industrial sites. Grading and earthmoving activities associated with new construction can accelerate soil erosion. Grease, oil, hydrocarbons, and metals deposited by vehicles and heavy equipment accumulate on streets and paved parking lots and are eventually carried into storm drains by runoff. The Santa Ana River (Reach 3) is 303(d) listed as impaired for copper, indicator bacteria, and lead. The Middle Santa Ana River Waterbodies – Nitrogen Compounds TMDLs [total maximum daily load] was approved on May 16, 2007 (State Water Resources Control Board 2018).

### *Groundwater*

The City is predominantly within the Riverside-Arlington subbasin, within the larger Upper Santa Ana Valley Groundwater Basin (Department of Water Resources Basin Number 8-002.03). A small area in the eastern portion of the City is within the San Jacinto Groundwater Basin (Department of Water Resources Basin Number 8-005). Because of topography and underlying geology, some areas of the City are not within a recognized groundwater basin. Because the Upper Santa Ana Valley – Riverside-Arlington subbasin is designated as a very low-priority basin, a groundwater sustainability plan under the Sustainable Groundwater Management Act is not required. The San Jacinto Groundwater Basin is designated as a high-priority basin. The Eastern Municipal Water District's Board of Directors became the exclusive groundwater sustainability agency for the western portion of the San Jacinto Groundwater Basin on April 24, 2017. Because the basin is not critically overdrafted, a groundwater sustainability plan will be submitted to the Department of Water Resources by January 31, 2022.

Groundwater basins are recharged from natural runoff/infiltration from precipitation, treated wastewater, and imported water as well as infiltration from Santa Ana River flows, underflows from the neighboring Chino Subbasin, and return irrigation flows (Department of Water Resources 2004). Inorganic constituents were present at high concentrations in about 33 percent of the primary aquifers and at moderate concentrations in about 29 percent of the primary aquifers. Nutrients (nitrate plus nitrite) were present at high concentrations in approximately 25 percent of the primary aquifers and moderate concentrations in about 25 percent of the primary aquifers (Kent and Belitz 2012).

The City's water supply is from groundwater sources that are sustained by groundwater basins. The City extracts domestic water from the Bunker Hill, Riverside North, and Riverside South basins through wells operated by RPU and the Gage Canal Company. Water for domestic use is not extracted from the Arlington and Rialto-Colton basins because of poor water quality and the lack of transmission lines.

### *Flooding*

Flooding in the City could result from intense storms or dam failure. The City is predominantly outside the Federal Emergency Management Agency (FEMA) 100-year floodplain in Zone X, an area with minimal flood hazard above the 500-year flood level. However, some areas of the City are within the FEMA 100-year floodplain (Zones A and AE). This includes about one-third of the Northside Specific Plan area. Flood hazards are greatest within and adjacent to channels, creeks, streams, and arroyos, including the Santa Ana River and several dams. Some portions of the Santa Ana River are also within the 100-year floodway (Zone AE). Moderate flood hazards, between the limits of the 100-year and 500-year floods (Zone X [shaded]), and areas with reduced flood risks because of levees are also present in the City. A portion of the southeastern section of the City is in FEMA Zone D (i.e., areas with possible but undermined flood hazards where no flood hazard analysis has been conducted) (FEMA 2008).

## **Discussion**

### *a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?*

**Less-than-Significant Impact.** Project construction facilitated by the proposed Project would have the potential to temporarily increase sediment loads and affect surface water quality. Updates to the City's Housing Element as well as Zoning Code and specific plans could result in the need for ground disturbance, such as landscaping or maintenance, during operation as well. For individual development projects facilitated by the proposed Project that would be subject to National Pollutant Discharge Elimination System (NPDES) requirements, a project-specific SWPPP would be developed and implemented in compliance with the Construction General Permit, local stormwater ordinances, and other related requirements. Areas with one acre or more of disturbance would need to have a SWPPP prepared and implemented. Also, individual development projects may require grading permits and interim erosion control plans to be submitted prior to construction.

Construction BMPs would control or prevent the discharge of pollutants, including concrete, waste from pavement cutting, petroleum products, chemicals, wastewater, sediments, and non-stormwater discharges, to storm drains and watercourses. In addition, construction materials and wastes would be stored, handled, and disposed of properly to prevent contact with stormwater. Earthmoving and clearing activities would be performed during dry weather only to minimize any mobilization of sediment. Temporary erosion controls, as applicable, would be implemented to stabilize disturbed areas until permanent erosion controls can be established.

Future development, consistent with and facilitated by the proposed Project, would increase the impervious surface area in the City. Operation could increase the levels of pollutants (e.g., trash, oil, grease, pesticides) and introduce pollutants into storm drains that would have the potential to degrade water quality. However, the City requires individual development projects to comply with existing State Water Quality Control Board and City stormwater regulations, including compliance with NPDES requirements related to preventing the transport of pollutants. The Santa Ana Drainage Area Management Plan (DAMP) provides a selection of BMPs, as required by NPDES. Project-specific Water Quality Management Plans (WQMPs) would be prepared that would outline the low-impact development (LID) BMPs required to meet water quality standards and reduce stormwater runoff. This is a standard requirement for all projects creating or replacing more than 5,000 square feet of pervious area.<sup>3</sup> LID project design features may include infiltration beds, swales, or basins; stormwater retention in detention ponds or constructed wetlands; rain harvesting; catchment technologies, such as rain gardens and cisterns; and permeable paving elements (City of Riverside 2019). Implementation of the City's Municipal Separate Storm Sewer System (MS4) permit, DAMP, and WQMP would provide the most comprehensive and effective approach to reducing water quality impacts from urbanization.

The Northside Specific Plan EIR also analyzed water quality concerns and includes measures addressing water quality including the creation of regional water quality basins. An updated hydrology and water quality study is currently underway (City of Riverside 2020). In addition, on-site detention, and stormwater infiltration measures such as swales, rain gardens, permeable paving, and other stormwater management BMPs encouraged by the City's Water Efficient Landscaping and Irrigation ordinance (RMC chapter 19.570) and the Citywide Water Efficient Landscaping and Irrigation Design Guidelines would be implemented by future development under the proposed Project, where feasible. The WQMP also identifies the appropriate BMPs to be implemented on a project-specific basis. These stormwater management BMPs are required to meet minimum water quality standards. Design recommendations included in the WELO and Guidelines are not requirements but can be implemented to meet WQMP guidelines as required for a given project. The Citywide Green Action Plan also includes goals related to protecting water quality including maintaining high water quality through appropriate recharge, conservation, management of sources, source water protection and contaminated source remediation. The proposed Project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface water or groundwater quality. Impacts would be less than significant.

***b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the proposed Project may impede sustainable groundwater management of the basin?***

**Less-than-Significant Impact.** Drinking water supplies in the City, primarily from groundwater supplies, are provided by RPU. Additional water is also provided by the Western Municipal Water District, the Eastern Municipal Water District, and the Riverside Highland Water Company from both groundwater and importation. Development facilitated by the proposed Project would increase the population, which would increase the demand for water supplies. The potential to increase groundwater supplies will be analyzed in individual project-specific assessments through a Water Supply Assessment prior to project approvals.

RPU's water supplies are supplied predominantly by local groundwater originating from the Bunker Hill Basin, also known as the San Bernardino subbasin within the larger Upper Santa Ana Valley Groundwater Basin. RPU's water supply from the Bunker Hill Basin is considered reliable during

---

<sup>3</sup> City of Riverside Public Works Department Water Quality Management Plans Applicability Checklist

single-year and multi-year dry periods. The Bunker Hill Basin is adjudicated, and its safe-yield and export rights are well defined and managed. Other groundwater supply basins for the City (i.e., the Colton, Riverside North, and Riverside South basins) are subject to groundwater management under a 1969 judgment (Langridge et al. 2016).<sup>4</sup> None of these basins is currently in a critical overdraft condition (City of Riverside 2016; Department of Water Resources 2020). Adverse environmental impacts are not expected from the use of groundwater sources because groundwater extraction would be within the safe yield of the groundwater basin. To increase water supply reliability, RPU intends to augment natural recharge in the Bunker Hill and Riverside Basins through conjunctive use projects and develop other forms of conservation (e.g., recycled water) (City of Riverside 2016).

Individual projects may either increase or decrease the impervious area on the individual project site. However, any change in impervious cover would impact potential groundwater recharge. Implementation of some of the individual development projects facilitated by the proposed Project would increase the impervious surface area and potentially decrease groundwater recharge. However, some of the individual residential, public infrastructure, and mixed-use projects facilitated by the proposed Project could decrease the impervious surface area through the addition of impervious surfaces and landscaping compared to existing conditions and potentially increase groundwater recharge. Also, the Riverside Citywide Water Efficient Landscaping and Irrigation Design Guidelines encourage the use of stormwater infiltration measures such as infiltration beds, swales, basins, and permeable paving. These features would be implemented on future development under the proposed Project, where feasible, and would allow runoff to infiltrate the soil media and percolate into the ground. Landscape features would allow groundwater recharge and increase recharge potential within individual project areas. In addition, RPU does not operate groundwater recharge facilities within the City. The proposed Project would not substantially decrease groundwater supplies or interfere with groundwater recharge such that the Project would impede sustainable management of the basin. Impacts are considered less than significant.

***c.1. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would: Result in substantial erosion or siltation on- or off-site?***

**Less-than-Significant Impact.** Project construction activities facilitated by the proposed Project would temporarily alter existing drainage patterns and could result in temporary on-site erosion and siltation. Generally, the City is largely built out and urbanized. As a result, impacts related to erosion or siltation would not be significant for future development occurring on partially or fully developed sites. Where development would occur on undeveloped properties, the potential exists to alter the existing drainage pattern of the site or area. However, new development would be subject to NPDES requirements. Areas with one acre or more of disturbance would prepare and implement a SWPPP. The SWPPP would reduce the potential for erosion, siltation, or other contamination and prevent runoff from construction sites during storm events. Erosion, siltation, and other possible pollutants associated with the implementation of projects would be addressed during the WQMP and grading permit process. Project-specific WQMPs would outline the LID BMPs required to adequately reduce stormwater runoff and erosion.

---

<sup>4</sup> The 1969 Western Judgment adjudicated three basins, the Colton Basin Area (Rialto-Colton Basin), the Riverside Basin Area, and the San Bernardino Basin Area (with Lytle and Bunker Hill Basins). Each of these three basin areas was thought to have surface and groundwater connections that could affect the minimum flows at Riverside Narrows required by the Orange County Judgment. In addition, exporters in downstream Riverside County were concerned about the sustainability of groundwater withdrawals over time.

GP 2025 includes numerous policies related to stormwater control and the protection of drainage courses in the City. The updates to the Public Safety Element as part of the proposed Project would also address flood hazards in the City, including minimizing the risks and consequences associated with natural hazards, like flood hazards, within Riverside. Also, development-related project runoff would be evaluated individually prior to approvals and construction and required to be attenuated on-site. As a result, off-site discharges would be the same as the undeveloped or baseline condition, and alterations in existing drainage patterns would be minimized. Riverside citywide landscaping, irrigation, and mixed-use design guidelines provided in the Riverside Citywide Design Guidelines and Sign Guidelines (City of Riverside 2019) also include design features such as planters, permeable pavers, and other LIDs that allow drainage. Runoff from impervious areas would be directed to permeable surfaces, landscaping, or other low-impact design areas. In addition, storm drain infrastructure would be designed and maintained in compliance with the City's MS4 permit and applicable general plan policies and ordinances. The proposed Project would not alter the existing drainage pattern of project sites in a manner that would result in substantial erosion or siltation. Impacts would be less than significant.

*c.2. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would: Substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?*

**Less-than-Significant Impact.** Some of the residential development to be facilitated by the proposed Project could increase the amount of impervious surface area compared with existing conditions. It is likely that the proposed Project would result in an increase in impervious area that would result in a net increase in the volume of runoff and floodwater leaving some of the individual opportunity sites. However, the City is predominantly outside the FEMA 100-year floodplain. Because the City participates in the National Flood Insurance Program, it must ensure that individual projects meet federal standards for flood protection. To avoid flooding and/or placing new development within flood areas, the City requires building pads to be elevated above flood levels. Also, underground storm drains and streets must be designed to accommodate the 10-year storm from curb to curb; 100-year storms are accommodated within street rights-of-way. In addition, the Riverside County Flood Control and Water Conservation District (RCFCWCD) requires improvements to comply with its standards for flood control. Project runoff for new development facilitated by the proposed Project would be evaluated prior to approvals and construction and required to be attenuated on-site. As a result, off-site discharges would be the same as the undeveloped or baseline condition. Project-specific WQMPs, as applicable, would be prepared, outlining the LID BMPs required to reduce stormwater runoff. Future development must implement the BMPs identified in the project-specific SWPPP prior to the commencement of construction to reduce on- or off-site flooding. On-site stormwater runoff and flooding would be minimized through site development using citywide landscape and irrigation and mixed-use design guidelines provided in the Riverside Citywide Design Guidelines and Sign Guidelines (City of Riverside 2019). In addition, the GP 2025 includes numerous policies related to stormwater control and reduced flood risks. An engineering review of drainage calculations and development plans by the City of Riverside Department of Public Works would further ensure that no significant increases in peak-flow rates or runoff volumes would occur. The grading and drainage plans for individual projects would be reviewed by the City to ensure that on-site drainage and LID features would be adequate with respect to preventing on-site or off-site flooding. Updates to the Public Safety Element would reduce the risks associated with flooding, with policies and actions incorporated. The Public Safety Element update indicates where existing flood hazard areas are located and where building in flood hazard areas should be avoided. The Public Safety Element update also provides guidance regarding where development and flood control

infrastructure should be located to avoid contributing to flood hazards. The proposed Project would not alter the existing drainage pattern of the site in a manner that would result in a substantial increase in runoff or flooding, and impacts would be less than significant.

***c.3. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would: Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?***

**Less-than-Significant Impact.** All future individual construction projects more than 1 acre in size implemented under the proposed Project would be required to have coverage under the state's General Permit for Construction, including implementation of a SWPPP. BMPs would be implemented to reduce adverse water quality impacts resulting from development. Development would also be required to comply with water quality measures pursuant to the City's MS4 permit.

Future development, consistent with the proposed Project, would increase the amount of impervious surface area and associated runoff in the City. Runoff may carry pollutants and potentially degrade water quality. New development proposed under the project updates would be required to prepare and implement a project specific WQMP. The WQMP would outline the BMPs required to adequately reduce stormwater runoff; these would be approved prior to development approvals and issuance of grading permits.

Each new development or redevelopment project within the City that is subject to CEQA would be required, as part of the CEQA process or entitlement process, to demonstrate that stormwater runoff from the site would not result in an exceedance of the capacity of the existing or future storm drain system, meaning that other developments in the area could not negatively affect storm system capacity. RCFCWCD and the City have identified facilities that are currently undersized. Facilities would be expanded and/or new facilities would be constructed to accommodate both existing and planned development, as needed.

The City has developed a 5-year Capital Improvement Program (CIP), which includes a Storm Drain Program. The City would continue to fund and undertake storm drain improvement projects identified in the CIP. Storm drain improvements are prioritized to ensure that drainage improvements are installed concurrently with street improvement projects, in coordination with RCFCWCD projects.<sup>5</sup> This program would include improvement projects that eliminate flooding during major storm events. Although the CIP addresses issues regarding existing undersized drainage facilities, not runoff increases anticipated due to general plan implementation, the City is required to routinely monitor and evaluate the effectiveness of the storm drain system and adjust as needed. In addition, the City requires development pads to be elevated above flood levels. Underground storm drains and streets are designed to accommodate the 10-year storm, and 100-year storms are accommodated within street rights-of-way. The Northside Specific Plan EIR also analyzed hydrology infrastructure concerns. The undeveloped areas within the Northside requires improvements to storm drain infrastructure to support additional development. The creation of regional water quality basins could be used for hydromodification management flow control for development projects (City of Riverside 2020). The proposed Project would not create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. Impacts would be less than significant.

---

<sup>5</sup> Capital improvements are funded out of the Storm Drain Fund, codified in Riverside Municipal Code Section 16.08.050, which authorizes the City to collect storm drain fees with the issuance of building permits.

***c.4. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner that would: Impede or redirect floodflows?***

**Less-than-Significant Impact.** Some areas of the City are within the FEMA 100-year floodplain, including areas within and adjacent to creeks, arroyos, and rivers, such as the Santa Ana River. The GP 2025 includes numerous policies related to preventing flood risks, deterring development near flood-prone areas, and requiring feasible mitigation of flood risk impacts on applicable development projects. A few areas of opportunity sites lie within the 100-year flood zone. Goal 4 of the Local Hazard Mitigation Plan is designed to protect the community from flood and storm-related losses (City of Riverside 2018) and sets forth several mitigation strategies to minimize impacts from flooding. The updates to the Public Safety Element as part of the proposed Project will further address flood hazards, augmenting existing policies and minimizing the risks and consequences of natural hazards, like flood hazards, within Riverside. The Public Safety Element update indicates where flood zone areas are located and the policies the City requires to protect these areas from flood hazards. In general, flood-prone areas are designated for open space and recreational uses rather than sensitive facilities and development. Because of the proximity to the Santa Ana River, potential flood risks are associated with dams and reservoirs in and close to the City, canals and arroyos, and low-lying areas that are routinely subject to flooding during heavy rains. Flood mitigation projects in the City include the Challen and Ryan Bonaminio Park Storm Preparation Projects and the Mount Rubidoux Roadway Drainage Improvements (City of Riverside 2018).

The City would review all development proposals to determine if a project is proposed in a flood hazard area. New construction within a 100-year flood zone would be required to mitigate flood hazards by providing on-site drainage, using anchoring to prevent floating structures, elevating buildings above flood levels, and including flood proofing. Buildings would be inspected and certified by a professional engineer, surveyor, or building inspector. As discussed previously, building pads would be elevated above flood levels. Underground storm drains and streets would be designed to accommodate the 10-year storm, and 100-year storms would be accommodated within street rights-of-way. Runoff from new development proposed under the proposed Project would be evaluated and attenuated on-site if located within a 100-year flood zone. Various areas within the Northside area do not have sufficient drainage capacity and flooding occurs in developed areas located directly adjacent to the existing channel alignment. Floodplain areas designated on FEMA maps would require a detailed hydraulic analysis which will need to be processed through FEMA (City of Riverside 2020). Stormwater infiltration measures such as infiltration beds, swales, basins, and other landscape features encouraged by the Citywide Water Efficient Landscaping and Irrigation Design Guidelines would be implemented on future development under the proposed Project where feasible. These features would increase on-site infiltration and minimize the potential for overland floodflows.

Updates to the Public Safety Element would reduce risks associated with flooding. The Public Safety Element update indicates where existing flood hazard areas are located to avoid building in flood hazard areas; it also provides policies regarding flood control infrastructure. The proposed Project would not impede or redirect floodflows, and impacts would be less than significant.

***d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?***

**Less-than-Significant Impact.** The City is not located in a coastal area and is not prone to inundation due to tsunamis. Seiche occurs in an enclosed or partially enclosed body of water, such as a lake or reservoir. Lake Evans in Fairmont Park may be subject to seiche. However, Lake Evans, which is surrounded by a park area, outlets directly to the Santa Ana River; the risk of inundation related to a seiche in Lake Evans is considered minimal. In the event of a flood hazard, to reduce the

risk of a pollutant release, individual projects facilitated by the proposed Project would comply with the requirements of local water quality programs and associated municipal stormwater-related NPDES permits (e.g., MS4 permit, DAMP, project-specific WQMP) as well as GP 2025 policies and Public Safety Element updates to manage flood risk and water quality. Compliance with these requirements would minimize risks related to a release of pollutants due to any potential inundation in a flood hazard, tsunami, or seiche zone.

Updates to the Public Safety Element would reduce flood risks and any associated release of pollutants. The Public Safety Element update indicates where existing flood hazard areas are located and where building construction, including associated storage areas for pollutants, should be avoided. Public Safety Element policies require measures to minimize risks associated with the storage, transport, and disposal of hazardous materials as well as associated impacts on surface and groundwater. The proposed Project would not release pollutants because of inundation by flood, tsunami, or seiche. Impacts would be less than significant.

***e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?***

**Less-than-Significant Impact.** Implementation of the proposed Project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. Some of the potential future development or redevelopment facilitated by the proposed Project would result in an increase in impervious area, which could decrease groundwater recharge capacity and increase the volume of runoff and associated pollutants. Future development under the proposed Project would be required to comply with the appropriate water quality objectives for the region. Commonly practiced BMPs would be implemented to control construction site runoff and reduce discharges of pollutants (i.e., stormwater and other nonpoint-source runoff) to storm drain systems. As part of compliance with permit requirements during ground-disturbing or construction activities, implementation of water quality control measures and BMPs would ensure that water quality standards would be achieved, including water quality objectives that protect designated beneficial uses of surface water and groundwater, as defined in the Water Quality Control Plan for the Santa Ana River Basin (Region 8). The NPDES Construction General Permit also requires stormwater discharges not to contain pollutants that cause or contribute to an exceedance of any applicable water quality objectives or water quality standards, including designated beneficial uses. The RWQCB has determined that implementation of the DAMP and MS4 permit would also protect the beneficial uses of all receiving waters. In addition, GP 2025 policies would require a sustainable groundwater management plan to protect groundwater recharge areas and groundwater resources. Citywide Water Efficient Landscaping and Irrigation Design Guidelines provided in the Riverside Citywide Design Guidelines and Sign Guidelines (City of Riverside 2019) include the use of stormwater infiltration measures such as infiltration beds, swales, basins, permeable paving, and other landscape features. These features would allow water to percolate into the ground and groundwater to recharge. A groundwater sustainability plan is not required for the Upper Santa Ana Valley – Riverside-Arlington subbasin because it is designated as a very low-priority basin. A groundwater sustainability plan for the San Jacinto Groundwater Basin will be submitted to the Department of Water Resources by January 31, 2022. The proposed Project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan, and the impact would be less than significant.

## XI. Land Use and Planning

|  | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact | No Impact                |
|--|-------------------------------------|--|------------------------------|--------------------------|
| Would the proposed Project:  |                                     |  |                              |                          |
| a. Physically divide an established community?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |

### Affected Environment

The City includes a diverse mix of land uses, with a higher intensity of land uses concentrated from west to east along major corridors. The City’s residential development is concentrated north and west of State Route 91. South and east of Victoria Avenue, is characterized predominately by rural or semi-rural land uses (agriculture, open space, and low-density residential). The University of California, Riverside straddles a section of Interstate 215 to the northeast.

The City has 28 individual neighborhoods, each with its own characteristics, history, architecture, housing types, and amenities. as identified in GP 2025.

*City of Riverside General Plan 2025*

The Land Use and Urban Design Element from GP 2025 details the City’s vision for its future development and within the greater planning area, which extends to the SOI. The Land Use and Urban Design Element contains objectives and policies that are to be implemented through a variety of planning tools.

State housing law requires the Housing Element to identify specific sites that are potentially suitable for residential development. The City has compiled an inventory of opportunity sites. These include properties that are dispersed throughout the City, thereby minimizing the potential for adverse changes to neighborhood character and aesthetics and reducing the potential for significant environmental impacts. As part of the initial site investigation, the City identified opportunity sites that are potentially suitable areas for future housing expansion (see Figures 5–18).

### Discussion

#### *a. Physically divide an established community?*

**Potentially Significant Impact.** Adoption of the 2021–2029 Housing Element update would not physically divide an established community. The Housing Element update is strictly a policy document; it does not provide entitlements to any specific land use development or redevelopment project. The Housing Element update encourages and facilitates development and redevelopment of a range of housing types and affordability levels. However, residential, and mixed-use developments facilitated by the Housing Element update would require a zoning code amendment to rezone up to 652 acres within City boundaries and accommodate new housing with a variety of densities and income levels as part of the proposed Project. The proposed Project would also require specific plan amendments to seven of the City’s specific plans (Canyon Springs Business Park, Downtown, Hunter

Business Park, La Sierra University, Magnolia Avenue, Riverside Marketplace, and University Avenue). As stated in the project description, the Housing Element update must designate exact locations where future housing can be built. The Housing Element update provides areas that could be designated for additional housing, primarily infill development close to infrastructure and other services to address the City's housing needs. This includes the development of market-rate, affordable, senior, and workforce housing; special-needs housing; housing for the homeless; and housing for those who are vulnerable to housing insecurity. The locations of the opportunity sites may abut or be within disadvantaged communities, and development of future housing under the proposed Project could physically divide an established community. In addition, it is possible that new public safety infrastructure might be constructed that could divide an established community. The impact would be potentially significant for development pursuant to the proposed Project, and this topic will be analyzed in the forthcoming EIR.

***b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?***

**Potentially Significant Impact.** The Housing Element update addresses the State mandate to update the local housing element of the general plan and accommodate the housing allocation designated in the Southern California Association of Governments (SCAG) 6<sup>th</sup> cycle of the RHNA, adopted by SCAG in March 2021. The RHNA quantifies the need for housing within each jurisdiction during specified planning periods. The 6<sup>th</sup> cycle Housing Element update, and the RHNA, approved March 2021, specifically identifies the need for 18,458 additional homes, including 4,861 very low-income, 3,064 low-income, and 3,139 moderate-income units; 7,394 units would be above moderate-income housing (SCAG 2021).

The previously adopted Housing Element cycle, covering the 2013–2021 period, included a RHNA allocation of 10,025 units, of which only a small portion was built during the last 7 years. The increase in the City's RHNA housing number is reflective of the state's current housing crisis, due in part to the difficulty associated with enabling the construction of new homes to keep up with the need for them. In addition, the City will need to identify space for the allocation of 18,458 units plus an additional approximately 6,500 units to allow for some sites that may not be developed to full potential (net loss requirement), for a total of approximately 24,000 new homes for the 2021–2029 cycle.

Opportunity sites have been identified to accommodate future housing and mixed-use development; this includes potential redevelopment sites that will help the City meet the housing demand. The Housing Element update proposes to rezone up to 652 acres within City boundaries to accommodate a variety of housing types and densities to accommodate the needs of all income. This may result in a potentially significant impact because this requires entitlements to rezone 652 acres for residential or mixed-use development. However, the updates to the Housing Element, Public Services Element, and the zoning code and specific plan amendments, as well as the addition of environmental justice policies, are at the policy level. Construction and operation of any additional housing to be facilitated by the proposed Project would require additional environmental review to assess the project-specific impacts. This topic will be analyzed in the forthcoming EIR.

## XII. Mineral Resources

|  | Potentially Significant Impact | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact | No Impact                           |
|--|--------------------------------|--|------------------------------|-------------------------------------|
| Would the proposed 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 type="checkbox"/>     | <input checked="" type="checkbox"/> |
| 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"/> |

### Affected Environment

Historically, the quarrying of granitic rock was a significant industry in Riverside. However, these operations have not been active for decades, and most extraction sites are now beyond the urban periphery (City of Riverside 2012). Although mineral extraction no longer plays a major role in Riverside's economy, the area between Market Street and Mission Boulevard, between the Santa Ana River and Lake Evans, is a state-classified mineral resource zone (MRZ) (i.e., MRZ-2) (City of Riverside 2012). Areas in the SOI and areas located generally within the eastern half of the City are designated MRZ-3, indicating that they contain known or inferred mineral occurrences of undetermined mineral resource significance (City of Riverside 2012).

### Discussion

***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?***

**No Impact.** The State Mining and Geology Board (SMGB) establishes MRZs to designate lands that contain mineral deposits (SMGB 2000). The classifications used by the state to define MRZs are as follows:

- **MRZ-1:** Areas where the available geologic information indicates no significant likelihood of significant mineral deposits.
- **MRZ-2a:** Areas where the available geologic information indicates that there are significant mineral deposits.
- **MRZ-2b:** Areas where the available geologic information indicates that there is a likelihood of significant mineral deposits.
- **MRZ-3a:** Areas where the available geologic information indicates that mineral deposits exist; however, the significance of the deposit is undetermined.
- **MRZ-3b:** Areas where the available geologic information indicates that mineral deposits are likely to exist; however, the significance of the deposit is undetermined.
- **MRZ-4:** Areas where there is not enough information available to determine the presence or absence of mineral deposits.

The proposed opportunity sites are located in areas classified MRZ-2 and MRZ-3, described in the Open Space and Conservation Element of GP 2025; however, mineral extraction does not play a major role in the City's economy and there are no known substantial mineral deposits. Development over MRZ-2 and MRZ-3 designated areas would not result in a loss of known mineral resources that would be of value to the region and residents of the state. There would be no impact related to the loss of availability of a known mineral resource that would be of value to the region and the residents of the state.

***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?***

**No Impact.** Because of existing conditions within the City, implementation of the proposed Project would not result in the loss of availability of a locally important mineral resource recovery site delineated in GP 2025, a specific plan, or any other land use plan. Also, the area between Market Street and Mission Boulevard, between the Santa Ana River and Lake Evans, which is a state-classified MRZ (MRZ-2), would not be affected by the proposed Project because there are no opportunity sites in this area. Impacts would be less than significant.

### XIII. Noise

|  | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact | No Impact                |
|--|-------------------------------------|--|------------------------------|--------------------------|
| Would the proposed Project:  |                                     |  |                              |                          |
| a. Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the proposed Project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies?                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| b. Generate excessive ground-borne vibration or ground-borne noise levels?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| c. Be located within the vicinity of a private airstrip or 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 and expose people residing or working in the project area to excessive noise levels? | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |

### Affected Environment

GP 2025 identifies the major sources of noise within the City. Major noise sources that currently and will in the future influence the noise environment within the City include:

- Major arterial roadway networks;
- Major freeway and interstate facilities, such as State Route 91, State Route 60 and Interstate 215;
- Railway networks for both commuter (Metrolink and Amtrak) and freight (Union Pacific and BNSF) operations;
- Airport noise, including Riverside Municipal Airport, Flabob Airport, and March Air Reserve Base; and
- Stationary noise sources for all land uses.

Other noise sources that could have the potential to affect land uses within the City would be construction noise sources.

The proposed Project would facilitate an increase in the housing stock within the City boundary. The geographic scope of the proposed Project is extensive and could be surrounded by other noise-sensitive land uses as well as many of the noise sources listed above.

## Discussion

*a. Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the proposed Project in excess of standards established in a local general plan or noise ordinance or applicable standards of other agencies?*

**Potentially Significant Impact.** Development facilitated by the proposed Project would have the potential to introduce new noise sources through the addition of new housing and other stationary sources, including public safety infrastructure, which could affect noise-sensitive land uses. The City has identified locations as opportunity sites where potential housing and mixed-use development could be sited. These locations vary considerably with respect to the surrounding noise environment; however, all locations would increase the number of vehicles accessing the local roadway and freeway/interstate network or even the commuter rail network. Other noise sources may introduce new stationary noise sources, such as HVAC systems or other stationary noise sources, that could affect surrounding land uses. In addition, any new housing, mixed-use development, or development for the purposes of public safety would require construction that would affect surrounding noise-sensitive land uses. Although any new development would be required to comply with the guidance included with the Riverside Municipal Code, specifically Chapters 7.25, 7.30, and 7.35, and the limits included in the Noise Element of GP 2025, the introduction of new noise sources could result in an increase in noise above applicable thresholds. As such, impacts could be potentially significant and could require further consideration to identify mitigation to reduce potential impacts. This topic will be analyzed in the forthcoming EIR.

*b. Generate excessive ground-borne vibration or ground-borne noise levels?*

**Potentially Significant Impact.** As discussed above, the proposed Project could result in the development, redevelopment, and construction of new housing, mixed-use development, and public safety infrastructure that would require the use of heavy construction machinery. Although the City does not include a codified threshold for vibration, the Noise Element of GP 2025 does reference guidance, plans, and legislation by such agencies as the Federal Transit Administration (FTA). The FTA's *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018) includes thresholds for damage and human annoyance from vibration and ground-borne noise. These, along with the California Department of Transportation (Caltrans) thresholds, represent guidance by which any construction impacts would be analyzed. Because the proposed Project would include new construction that may require the use of vibration-producing construction equipment in proximity to vibration-sensitive land uses, impacts could be potentially significant and could require further consideration to identify mitigation to reduce potential impacts. This topic will be analyzed in the forthcoming EIR.

*c. Be located within the vicinity of a private airstrip or 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 and expose people residing or working in the project area to excessive noise levels?*

**Potentially Significant Impact.** As discussed above, the update to the City's Housing and Public Safety Elements could result in development and redevelopment throughout the City. Because there are multiple airports within the City or in proximity to the City, some locations that are slated for new housing may be located within an airport land use plan or in proximity to an airport. Impacts could be potentially significant and could require further consideration to identify mitigation to reduce potential impacts, and this topic will be analyzed in the forthcoming EIR.

## XIV. Population and Housing

|   | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|---|-------------------------------------|--|-------------------------------------|--------------------------|
| Would the proposed Project:   |                                     |  |                                     |                          |
| a. Induce substantial unplanned population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)? | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| b. Displace a substantial number of existing people or housing, necessitating the construction of replacement housing elsewhere?  | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### Affected Environment

Section 15126(d) of the State CEQA Guidelines requires a discussion of a proposed Project’s potential to foster economic or population growth, either directly or indirectly, including ways in which a project could remove an obstacle to growth. Implementation of the Housing and Public Safety Elements update, development of environmental justice policies, and Zoning Code and Specific Plan amendments, have the potential to induce growth, as discussed below.

Growth does not necessarily create significant physical changes to the environment. However, depending upon the type, magnitude, and location of growth, it can result in significant adverse environmental effects. The proposed Project’s growth-inducing potential would be significant if it would result in unavoidable significant effects in one or more environmental issue areas.

The City is primarily a residential community with steady population growth (i.e., approximately 40,000 new residents every decade since the 1960s) (City of Riverside 2018). The City’s population in 2020 was 328,155 (Department of Finance 2020). There are approximately 90,722 housing units in the City, and the average household size is 3.28 persons per dwelling unit (Department of Finance 2020).

Homelessness, including those living in public rights-of-way or in natural open spaces or recreational areas, is a public health concern. Homelessness is a complex social problem. Major factors that contribute to homelessness include a lack of employment opportunities and access to affordable housing, a decline in available public assistance, a lack of affordable health care, and other circumstantial issues, such as domestic violence, physical or mental illness, and drug or alcohol addiction.

Low-income and minority communities and neighborhoods occur within the City, and in general, may be disproportionately burdened by, or vulnerable to, sources of pollution and other disproportionately high and adverse impacts related to public health, social equity, and environmental justice.<sup>6</sup>

<sup>6</sup> Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

## Discussion

*a. Induce substantial unplanned population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)?*

**Potentially Significant Impact.** The proposed Project includes goals to encourage housing, meet the City's housing needs with diverse household types, and provide for households that are vulnerable to housing insecurity. The expectation is that as growth occurs, consistent with GP 2025, housing would serve all income levels, including very low-, low-, moderate-, and above moderate-income residents and special-needs residents. The proposed Project is a policy-level planning effort that encourages and facilitates the development and redevelopment of a range of housing types and affordability levels while facilitating mixed-use development and public safety infrastructure. The proposed Project does not include specific development proposals. Because of the rezoning of sites, there would be an increase in the number of new housing units between 2021 and 2029, up to approximately 24,000 to fulfill the RHNA. Rezoning that would occur as part of the proposed Project would allow for development of up to 30,190 housing units. Based on the City's current Housing Element, the average household size is 3.28 persons per dwelling unit. The rezoning of opportunity sites has the potential to increase the City's population if all housing units are constructed and all residents are new to the City (City of Riverside 2018). It is also possible that existing residents that are currently sharing homes may locate to new units. According to SCAG, the population of the City is projected to increase to 395,800 by 2045, which represents an increase of 20.61 percent from the 2020 population of 328,155 (Department of Finance 2020). This increase in population resulting from 30,190 new housing units would result in population increase that would be greater than the 2045 population projection of 67,645 new residents. As such, impacts could be potentially significant by inducing substantial unplanned population growth in an area either directly or indirectly. This topic will be analyzed in the forthcoming EIR.

*b. Displace a substantial number of existing people or housing, necessitating the construction of replacement housing elsewhere?*

**Less-than-Significant Impact.** The proposed Project is a policy-level planning effort that encourages and facilitates the development and redevelopment of a range of housing types and affordability levels. The proposed Project does not include specific development proposals. Because of the sites to be rezoned are located throughout the City, the potential exists for an increase in the number of new housing units, up to approximately 30,190. Some redevelopment could result in the removal of existing housing (up to 222 DU), but this is anticipated to be minimal and would not displace a substantial number of people or existing housing units. Any existing units removed through redevelopment would be replaced with new units. The impact would be less than significant.

## XV. Public Services

|  | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact | No Impact                |
|--|-------------------------------------|--|------------------------------|--------------------------|
| Would the proposed Project:  |                                     |  |                              |                          |
| a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or a 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 following public services: | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| Fire protection?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| Police protection?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| Schools?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| Parks?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| Other public facilities?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |

### Affected Environment

The RFD provides fire protection for the City. In addition to the 14 stations, the Riverside County Fire Department (RCFD) provides service to unincorporated territory within the City’s SOI.

The Riverside Police Department (RPD) provides police protection services to the City. Three RPD stations and one aviation support site are located in Riverside. The RPD does not use a formula for calculating the number of officers per capita. Instead, staffing for the RPD is based on business and residential growth and evaluated on a project-by-project basis.

The City is served by two public school districts, the Riverside Unified School District (RUSD) and the Alvord Unified School District (AUSD). RUSD’s 47 schools include 30 elementary schools, one special-education preschool, six middle schools (grades 7–8), five comprehensive high schools, two continuation high schools, two alternative schools, and the Riverside Virtual School. AUSD includes 14 elementary schools, four middle schools, three comprehensive high schools, one continuation high school, and one alternative education center. Approximately 42,000 students are enrolled in grades K–12 at RUSD, and 20,000 students are enrolled at AUSD. In addition, RUSD has nearly 7,000 adult education students enrolled in its district (City of Riverside 2021a, 2021b).

The Riverside Public Library system provides library service to the City. Eight existing libraries serve the City and the Main Library replacement will be open in 2021. . The libraries offer books and e-media, wi-fi and internet access, printing services, home delivery for books and audiovisual materials, technology and literacy programs, reference and research services, public meeting rooms, and community programs. The Main Library will house 60,000 books and other materials, a community room, a bookstore space, a 100-seat community room, a 2-story City archive, and an outdoor arcade space for community events such as youth performances, farmers markets, concerts, and family festivals. Construction on the new Main Library is expected to be complete in late 2021.

Library service needs and standards are determined by the following methods: volumes by population; community need/service gaps, including services provided/not provided by other area departments and agencies; customer requests; and the innovation/success of pilot projects. The City does not collect assessed development impact fees on the library's behalf. Library funding sources include the general fund, trust funds, gift funds/donations, and grants. In addition, voters approved the Riverside Library Parcel Tax (Measure I) in November 2011 to fund library services through June 2022.

The City has many different types of parks, including population-based parks, both neighborhood and community; resource-based parks that include natural or man-made resources to serve the citywide population; and open space parks that allow public access to undeveloped natural spaces. The City has 68 parks and additional open space areas with 2,940.61 acres of City-owned parkland (City of Riverside 2020); however, only 2,595.07 acres of existing parkland is counted in the totals below (refer to Section XVI, *Recreation*). According to the City of Riverside's Comprehensive Park, Recreation, and Community Services Master Plan, adopted on February 4, 2020, the City plans to create seven new park sites in underserved areas of the City and revitalize existing parks (City of Riverside 2020).

The City currently funds the operation of nine community centers, three senior citizen centers, and two service centers. As part of the Riverside Renaissance Initiative, the Bobby Bonds Youth Opportunity Center, the Orange Terrace Community Center, and the Bordwell Childcare Center were opened.

The City is the steward of the Museum of Riverside, which is a department within the City that oversees the trust of artifacts, archives, and historic sites owned by the City. The Museum of Riverside is responsible for three historic sites, and houses more than 200,000 artifacts in its collections. The Museum also offers educational programs, special cultural events, and school programs.

## Discussion

*a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or a 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 following public services:*

### *Fire protection?*

**Potentially Significant Impact.** The proposed Project could result in an increase in population of approximately 99,000 persons, which is 20.61 percent of what was anticipated under the typical growth scenario through 2045. This increase in population would result in a permanent increase in demand for fire protection services in areas served by the RFD. Significant impacts on service ratios, response times, and other performance objectives of fire protection could occur. This topic will be analyzed in the forthcoming EIR.

### *Police protection?*

**Potentially Significant Impact.** The proposed Project would result in an increase in population up to approximately 99,000 persons, which is 20.61 percent of what was anticipated under the typical growth scenario through 2045. This increase in population would result in a permanent increase in demand for police protection services in areas served by the RPD. Significant impacts on service ratios, response times, performance, and other performance objectives of police protection could occur. This topic will be analyzed in the forthcoming EIR.

### *Schools?*

**Potentially Significant Impact.** Future development and population growth, consistent with the proposed Project, would increase the demand for RUSD and AUSD school facilities and services over time. However, future residential development would comply with Riverside Municipal Code Chapter 16.56, School Development Fee, which establishes coordination between the City and the applicable school district to develop a school development fee for mitigating the impact of residential development on local school districts. In addition, legislation allows school districts to collect impact fees from developers of new residential and commercial uses. Pursuant to Government Code Section 65996, school fees imposed through the Education Code are deemed to be full mitigation for new development projects; the City cannot impose additional mitigation measures. School impact fees would be imposed on future development within the RUSD and AUSD services areas. Compliance with the established regulatory framework, which requires payment of school impact fees, would offset the cost of providing service for any additional students generated by new development; however, there would still be the potential for impacts.

Future development must also comply with GP 2025 Policies ED-1.1 and ED-3.1. GP 2025 Policy ED-1.1 requires an adequate level of infrastructure and services to be provided to accommodate campus growth at all educational levels. GP 2025 Policy ED-3.1 requires educational institutions to accommodate the needs of City residents. Even with compliance with the abovementioned regulatory framework, there could still be temporary or permanent capacity issues that could result in inadequate educational facilities would be available to serve the projected growth in population. As such, impacts related to schools would be potentially significant and this topic will be analyzed in detail in the EIR.

### *Parks?*

**Potentially Significant Impact.** The existing parkland-to-resident ratio is 7.91 acres per 1,000 residents. Implementation of the proposed Project would increase the population by approximately 99,000, resulting in a population of 427,065 and decreasing the ratio to 6.08 acres per 1,000 residents. Although the parkland-to-resident ratio could be lowered with implementation of the proposed Project, the projected parkland-to-resident ratio would remain compliant with both the current standard of 3 acres per 1,000 residents and the suggested standard of 5 acres per 1,000 residents (City of Riverside 2020). In addition, the City would continue to meet the ratio for developed and natural parks and would not experience a parkland deficiency. Impacts from the proposed Project related to the demand for parks would be less than significant. The proposed Project would allow build-out of up to 30,190 dwelling units, which would result, if all units were constructed and all were occupied by residents new to the City, in a population increase of up to 99,000 persons. While the parks-to-resident ratio may still meet City goals, deterioration of existing parks and recreational facilities may occur in localized areas. In addition, the increase in population may result in the need for construction of new parks or recreation facilities, the construction of which could result in significant environmental impacts. Impacts related to parks will be analyzed in detail in the EIR.

### *Other public facilities?*

**Potentially Significant Impact.** As discussed in Section XIV, *Population and Housing*, estimated population growth from the proposed Project, including rezoning, has the potential to increase the City's population by approximately 99,000, which is 20.61 percent of protected population growth for 2045. This increase in population would permanently increase the demand for other public services, such as libraries, community centers, and museums. Significant impacts could occur due to the demand for additional public facilities or services. This topic will be analyzed in the forthcoming EIR.

## XVI. Recreation

|  | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact | No Impact                |
|--|-------------------------------------|--|------------------------------|--------------------------|
| Would the proposed Project:  |                                     |  |                              |                          |
| a. 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 checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| b. Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |

### Affected Environment

The City has 68 parks and additional open space areas with approximately 2,940.61 acres of City-owned parkland (City of Riverside 2020). According to the City’s Comprehensive Park, Recreation, and Community Services Master Plan, adopted on February 4, 2020, the City plans to create seven new park sites in underserved areas of the City and revitalize existing parks (City of Riverside 2020). The City is currently preparing a Trails Master Plan update that will be used to address and guide development of new trails in the City.

The City’s Comprehensive Park, Recreation, and Community Services Master Plan defines parks as areas that are “intended as public green space where City dwellers can escape from the rush of urban life.” The City categorizes its parks into three categories: Developed Parks, Natural Parks, and Miscellaneous Facilities (City of Riverside 2020).

### Discussion

*a. 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?*

**Potentially Significant Impact.** The City currently has 2,940.61 acres of existing parkland; however, spaces categorized as Undeveloped City-owned Property cannot be included in the parkland-to-resident ratio analysis, as determined by the City’s Comprehensive Park, Recreation, and Community Services Master Plan (City of Riverside 2020). Approximately 345.54 acres of parkland in the City is categorized as Undeveloped City-owned Property. For the purposes of the parkland-to-resident ratio analysis, the City currently has 2,595.07 acres of existing parkland. Implementation of the proposed Project would not add any open space or parkland in the City. The City has limited or eliminated opportunity sites that were designated as open space as well as any areas that contain a sensitive habitat or species.

The Parks and Recreation Element of GP 2025 currently has an adopted standard of 3 acres per 1,000 residents (City of Riverside 2012). This is further broken down to 2 acres of neighborhood park land per 1,000 persons and 1 acre of community park land per 1,000 residents (City of Riverside 2012). The City of Riverside’s Comprehensive Park, Recreation, and Community Services Master Plan recommends increasing this standard to 5 acres per 1,000 residents (City of Riverside 2020).

The City of Riverside parkland ratio goals versus parkland ratios with implementation of the proposed Project would decrease the parkland-to-resident ratio. The 2020 City population was approximately 328,155 (Department of Finance 2020). The existing parkland-to-resident ratio is 7.91 acres per 1,000 residents. Although the parkland-to-resident ratio could be lowered with implementation of the proposed Project, the projected parkland-to-resident ratio would remain compliant with both the current standard of 3 acres per 1,000 residents and the suggested standard of 5 acres per 1,000 residents. The City would continue to meet the ratio for developed and natural parks with implementation of the proposed Project. While the parks-to-resident ratio may still meet City goals, deterioration of existing parks and recreational facilities may occur in localized areas. Significant impacts could occur due to this demand for existing recreational facilities in the City if all units were constructed and all were occupied by residents new to the City. This topic will be analyzed in the forthcoming EIR.

***b. Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?***

**Potentially Significant Impact.** The proposed Project does not propose recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment. However, the proposed Project would facilitate the development and redevelopment of housing and mixed-use development throughout the City, and new residents would increase the demand for parks and recreational facilities in the areas of the opportunity sites. Although the parkland-to-resident ratio could be lowered with implementation of the proposed Project, the projected parkland-to-resident ratio would remain compliant with both the current standard of 3 acres per 1,000 residents and the suggested standard of 5 acres per 1,000 residents. While the parks-to-resident ratio may still meet City goals, the need to construct or expand additional parks in potentially new areas of the City could occur if all units were constructed and all were occupied by residents new to the City. In addition, the increase in population may result in the need for construction of other new recreation facilities, including playgrounds, ballfields, and/or community centers, the construction of which could result in significant environmental impacts. Significant impacts could occur as the construction or expansion of new recreational facilities could result in adverse physical effects on the environment. This topic will be analyzed in the forthcoming EIR.

## XVII. Transportation

|  | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|--|-------------------------------------|--|-------------------------------------|--------------------------|
| Would the proposed Project:  |                                     |  |                                     |                          |
| a. Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?            | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| b. Conflict or be inconsistent with State CEQA Guidelines section 15064.3, subdivision (b)?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| c. Substantially increase hazards because of a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d. Result in inadequate emergency access?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |

### Affected Environment

The existing roadway network, bikeways, local transit services, and planned roadway, bikeway, and transit improvements in the area are described in GP 2025, Circulation and Community Mobility Element. The regional road network within the City includes Interstate 215, State Route 91, and State Route 60. The major arterial street layout for the City forms a grid pattern. The City has an active Neighborhood Traffic Management Program<sup>7</sup> to minimize and/or prevent the intrusion of cut-through traffic into residential neighborhoods. Transit services are provided by the Riverside Transit Agency, Sunlight Transit Agency, Metrolink, and Amtrak. The City has four park-and-ride facilities for commuters as well as bicycle and pedestrian facilities, such as bike lanes, bike routes, trails, sidewalks and paths, trails, crossing facilities, and curb treatments throughout the City.

Vehicle-miles-traveled (VMT) data from the Riverside Traffic Analysis Model (RIVTAM) show that:

- Riverside VMT per service population is 6 percent lower than the average for western Riverside County, and
- Total VMT per household (i.e., total VMT in the City divided by the number of households) is higher than that of the region. The higher VMT per household is likely an indication that Riverside attracts people from the surrounding region more so than other jurisdictions, generating VMT from visitors and employees at a higher rate than other cities. This could be due to the City's robust downtown, multiple university campuses, employment areas, and commercial uses that attract regional trips.

The VMT summary for the City is provided in Table 1.

<sup>7</sup> City of Riverside, Public Works Department. n.d. *Neighborhood Traffic Management Program*. Available: <https://riversideca.gov/publicworks/traffic/pdf/NeighborhoodTrafficManagement.pdf>.

**Table 1. Riverside VMT Summary**

| Total VMT                  | City of Riverside | Riverside County | Western Riverside County | SCAG Region |
|----------------------------|-------------------|------------------|--------------------------|-------------|
| VMT per Service Population | 27.8              | 29.3             | 29.8                     | 24.3        |
| VMT per Household          | 130.1             | 120.9            | 126.4                    | 106.4       |

Source: Fehr & Peers, 2021;RIVTAM Base Year (2012).

The City of Riverside Active Transportation Plan is currently being developed to integrate walking, bicycling, and other transportation modes into a single plan that includes policies, infrastructure recommendations, and supporting programs and implementation strategies to improve mobility and congestion. In addition to the GP 2025, other city plans related to transportation and traffic include Pedestrian Target Safeguarding Plan, Active Transportation Plan, the Complete Streets Ordinance, and the Trails Master Plan (PACT).

## Discussion

*a. Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?*

**Potentially Significant Impact.** The proposed Project would not directly result in any activities that would conflict with a program, plan, ordinance, or policy regarding the circulation system, including transit, roadway, bicycle, and pedestrian facilities. Future development would be subject to individual review to determine consistency with applicable programs, plans, ordinances, and policies and determine if any additional analysis and project-specific mitigation measures are needed. However, construction of up to 30,190 housing units and up to 11,501,959 sf of other uses per the Housing Element update, would result in additional vehicles on the existing roadway network. Although adding housing and increasing the number of vehicles would not necessarily conflict with programs, plans, ordinances, or policies, the proposed Project could prohibit future programs, plans, ordinances, or policies (i.e., GP 2025, Trails Master Plan, Bicycle Master Plan, etc.). As such, this impact is potentially significant, and further analysis will be provided in the forthcoming EIR.

*b. Conflict or be inconsistent with State CEQA Guidelines section 15064.3, subdivision (b)?*

**Potentially Significant Impact.** State CEQA Guidelines Section 15064.3(b) requires CEQA documents for land use and transportation projects to evaluate impacts of projects on VMT. The proposed Project would not directly result in any activities that would conflict with or be inconsistent with State CEQA Guidelines. However, construction of an additional 30,190 housing units, or more, and other nonresidential development in the City, per the Housing Element update, would result in additional VMT over the 8-year period. This impact is potentially significant, and further analysis will be provided in the forthcoming EIR.

*c. Substantially increase hazards because of a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*

**Less-than-Significant Impact.** The proposed Project would not directly result in any activities that would substantially increase hazards because of a geometric design feature through implementation of policy changes and updates. Although construction of an additional 30,190 housing units to be facilitated by the proposed Project as well as other nonresidential development in the City would not necessarily result in direct traffic hazards (i.e., vehicle, bicyclist, pedestrian accidents), the proposed Project would be policy based; as such, projects may not yet be designed that could lead to traffic

hazards, although further review is required. However, future roadways would be designed in compliance with City of Riverside codes and standards (chapter 19.102), which would be verified in design review and plan check on a project-by-project basis. This impact would be less than significant.

*d. Result in inadequate emergency access?*

**Potentially Significant Impact.** The proposed Project would not directly result in any activities that would result in inadequate emergency access. Construction of up to approximately 30,190 housing units and other nonresidential development, per the Housing Element update, could require additional public services for future residents. The proposed Project is not expected to impair emergency access because opportunity sites are proposed near essential services. GP 2025 contains policies to encourage development of safe transportation systems and ensure that development does not conflict with emergency response or access during project operations. The updates to the Public Safety Element as part of the proposed Project would also address emergency preparedness and response, including the provision of high-quality and responsive emergency management services to all residents and businesses in the City. During construction, traffic in the surrounding areas is anticipated to be minimal and limited to on-site construction-related equipment entering and exiting the individual project areas. Once construction activities are completed, all roadways would be restored to their previous condition or be improved to accommodate growth in compliance with City requirements for individual development projects. However, each project will require evaluation for emergency access, since site plans are unknown, and implementation of the proposed Project could result in inadequate access for any emergency response entities. Impacts would be potentially significant and the topic will be evaluated in detail in the EIR.

## XVIII. Tribal Cultural Resources

|   | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact | No Impact                |
|---|-------------------------------------|--|------------------------------|--------------------------|
| Would the proposed Project 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:                    |                                     |  |                              |                          |
| a. 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), or  | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| b. 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 Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |

### Affected Environment

A Tribal Cultural Resource (TCR) is a site, feature, place, cultural landscape, sacred place, or object that is of cultural value to a recognized Native American tribe. The resource may be in or eligible for listing in CRHR or a local historic register, or a lead agency may choose to treat a resource as a TCR. The City is located near an ethnographic transition zone between the Gabrielino/Tongva, Serrano, Luiseño, and Cahuilla Native American tribes. All four groups are speakers of Tatic languages, which are part of the Uto-Aztecan linguistic stock. Detailed ethnohistoric discussions will be provided in the forthcoming EIR.

CEQA requires public agencies to evaluate the implications of their project(s) on the environment and include significant historic resources as part of the environment. According to the California Code of Regulations, Title 14, Section 15064.5, public agencies must treat any cultural resource as significant, unless the preponderance of evidence demonstrates that it is not historically or culturally significant. On September 25, 2014, California Governor Jerry Brown signed into law AB 52, which amended PRC Section 5097.94 and added Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3 to establish a new category of environmental resources that must be considered under CEQA, TCRs. For projects with applications filed on or after July 1, 2015, lead agencies are also required to consult with California Native American tribes that are traditionally and culturally affiliated with the geographic area of a future development facilitated by the proposed Project if the tribe requested to the lead agency, in writing, to be informed by the lead agency of proposed projects in the geographic area and the tribe requests consultation prior to determining whether a negative declaration, mitigated negative declaration, or EIR is required for a project.

SB 18, California Government Code Section 65352.3, enacted in 2004, requires local governments to consult with Native American tribes at the earliest point in the local government land use planning process. It establishes responsibilities for local governments to contact, refer plans to, and consult with California Native American tribes as part of adoption or amendment of any general or specific plan proposed on or after March 1, 2005. SB 18 requires public notice to be sent to tribes listed on the NAHC's SB 18 Tribal Consultation List within the geographical areas affected by proposed changes. Tribes must respond to the CEQA lead agency within 90 days and indicate whether they want to consult. Consultations are for the purpose of establishing meaningful dialogue regarding preserving or mitigating impacts on places, features, and objects described in Sections 5097.9 and 5097.993 of the PRC that may be affected by the proposed adoption of or amendment to a general or specific plan.

## Discussion

*a. Would the proposed Project 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: 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)?*

**Potentially Significant Impact.** Although efforts will be made by the City to exclude any areas of known tribal cultural resources from proposed development, as-yet unknown tribal cultural resources on vacant lots or other opportunity sites may be present. It is possible that such resources would be eligible for listing in the CRHR or a local register of historic resources, as defined in PRC Section 5020.1(k). As defined in PRC Section 5020.1(k), a local register of historical resources means a list of properties officially designated or recognized as historically significant by a local government, pursuant to a local ordinance or resolution. Because the City will screen proposed locations for development, it is not likely that locations identified on local registers would be selected. For future proposed locations of development, a cultural resources records search and consultation with affiliated Native American tribes will determine whether locally registered historic resources would be adversely affected.

Because future development facilitated by the proposed Project has the potential to affect tribal cultural resources, defined in PRC 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, this potential impact will be analyzed in the forthcoming EIR. The results of consultation with traditionally and culturally affiliated tribes will also be incorporated into the forthcoming EIR.

*b. Would the proposed Project 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: 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?*

**Potentially Significant Impact.** In compliance with AB 52, the City will conduct a Sacred Lands File search through the NAHC to determine if Native American traditional sites or places are within proposed development areas. In addition, the City will conduct consultation with Native American tribes that have requested to be consulted, per the guidelines set forth in AB 52.

Because the proposed Project would involve amendments to the GP 2025 and seven specific plans, per SB 18, the City will send project notification/consultation letters to the tribes listed on the NAHC Tribal Consultation List. The City will consult with those tribes requesting consultation to determine if significant Native American traditional sites or places are within proposed development areas. Because future developments have the potential to affect tribal cultural resources, defined in PRC 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 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 PRC Section 5024.1, this potential impact will be analyzed in the forthcoming EIR. The results of consultation with traditionally and culturally affiliated tribes, per AB 52 and SB 18, will also be incorporated into the EIR.

## XIX. Utilities and Service Systems

|   | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|---|-------------------------------------|--|-------------------------------------|--------------------------|
| Would the proposed Project:   |                                     |  |                                     |                          |
| a. Require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| b. Have sufficient water supplies available to serve the proposed Project and reasonably foreseeable future development during normal, dry, and multiple dry years?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| c. Result in a determination by the wastewater treatment provider that serves or may serve the proposed Project that it has adequate capacity to serve the proposed Project's projected demand in addition to the provider's existing commitments?                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| d. Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>            | <input type="checkbox"/> |
| e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?  | <input type="checkbox"/>            | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### Affected Environment

Water is provided mainly by RPU in the City, which supplied 74,928 acre-feet (AF), or 24,415 million gallons, of water to 295,000 people within its service area in 2015. The 2015 Urban Water Management Plan projects that RPU will supply 124,703 AF (40,634 million gallons) of water by 2040 to meet increasing demand under anticipated buildout from GP 2025. In 2015, RPU received 75,126 AF of water from two sources. Approximately 99 percent (74,926 AF) was local groundwater; less than 1 percent (200 AF) was recycled water from the Regional Water Quality Control Plant (City of Riverside Public Utilities Department 2016).

The Western Municipal Water District also provides water in an approximately 10-square-mile area in the southeast part of the City. In 2015, the Western Municipal Water District received 78,852 AF of water from three sources. Approximately 82 percent (64,371 AF) was imported and purchased from the Metropolitan Water District or the Meeks and Daley Water Company; approximately 11 percent (8,481 AF) was from the Western Municipal Water District's existing desalter system, groundwater, and recycled supplies; and approximately 8 percent (6,000 AF) was banked water from extraordinary supplies; refer to the Western Municipal Water District Urban Water Management Plan, Chapter 6, System Supplies (City of Riverside Public Utilities Department 2016).

The City of Riverside Public Works Department provides for the collection, treatment, and disposal of nearly all wastewater generated within the City through its Riverside Regional Water Quality Treatment Plant and complies with state and federal requirements governing the treatment and discharge of wastewater. According to the City's Wastewater Collection and Treatment Facilities Integrated Master Plan (Integrated Master Plan), the City's wastewater service area includes more than 800 miles of sewer gravity mains, ranging in diameter from 6 to 48 inches. The City also operates 18 wastewater pump stations, which range in size from 100 gallons per minute (gpm) to 2,000 gpm (City of Riverside 2008). Small areas of the City are served by septic systems.

The City of Riverside Public Works Department is responsible for the collection and disposal of approximately 70 percent of the City's residential solid waste. The remainder of the City's solid waste disposal needs are met by a private contractor, Burrtec Waste. Non-hazardous waste is processed through the County of Riverside-owned Robert A. Nelson Transfer Station under a 20-year contract (California Integrated Waste Management Board 2002). Waste is then transferred to the Badlands Landfill for disposal. In addition, the Riverside County Department of Waste Resources operates four other landfills that also serve the City, Blythe, Desert Center, Lamb Canyon, and Oasis landfills. The City is also served by the El Sobrante Landfill, which is operated by Waste Management, Inc. All landfills are Class III disposal sites. The Riverside County Department of Waste Resources operates the Agua Mansa Permanent Household Hazardous Waste Facility, which provides the City a location for hazardous household waste disposal.

The California Integrated Waste Management Act, under the PRC, required local jurisdictions to divert at least 50 percent of all solid waste by January 1, 2000. The City is currently achieving a 69 percent diversion rate, well above state requirements. In addition, CALGreen required all developments to divert 50 percent of nonhazardous construction and demolition debris and 100 percent of excavated soil and debris from land clearing associated with all nonresidential projects beginning January 1, 2011 (California Legislative Information 2021).

## Discussion

*a. Require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?*

**Potentially Significant Impact.** Development and population growth facilitated by the proposed Project would require the installation of water, wastewater, electrical, natural gas, and telecommunication connections to existing utilities outside development boundaries. Development and redevelopment would also require stormwater drainage improvements. The potential exists for significant environmental impacts from the installation of these connections. This topic will be evaluated in the forthcoming EIR.

*b. Have sufficient water supplies available to serve the proposed Project and reasonably foreseeable future development during normal, dry, and multiple dry years?*

**Potentially Significant Impact.** Development and population growth facilitated by the proposed Project would result in increased demand for potable and nonpotable water. As described above, the City receives water mainly from RPU; however, southeast Riverside receives water from the Western Municipal Water District. With the addition of up to 30,190 housing units and as much as 11,501,959 square feet of non-residential uses, future development would result in additional water demands compared with existing conditions. The proposed Project would have the potential to result in significant impacts on water supplies, and this topic will be further analyzed in the forthcoming EIR.

*c. Result in a determination by the wastewater treatment provider that serves or may serve the proposed Project that it has adequate capacity to serve the proposed Project's projected demand in addition to the provider's existing commitments?*

**Potentially Significant Impact.** Development and population growth facilitated by the proposed Project would result in additional demand for wastewater treatment from the City's wastewater treatment provider. This increase could exceed the treatment capacity of wastewater treatment facilities that serve the City. As the proposed Project has the potential to result in significant impacts on water treatment demand, this topic will be further analyzed in the forthcoming EIR.

*d. Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?*

**Potentially Significant Impact.** Development and population growth facilitated by the proposed Project would result in a permanent increase in solid waste disposal demands compared with existing conditions. Future development would also involve temporary construction-related solid waste demands. This increase in solid waste flow could exceed the permitted capacity of landfills that serve the City. The potential exists for significant impacts from an increase in solid waste disposal demands, and this topic will be further analyzed in the forthcoming EIR.

*e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?*

**Less-than-Significant Impact.** Development and redevelopment facilitated by the proposed Project would comply with City waste disposal requirements as well as CALGreen requirements; as such, the proposed Project would not conflict with any federal, state, or local regulations related to solid waste. The impact would be less than significant.

## XX. Wildfire

|   | Potentially Significant Impact | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact        | No Impact                |
|---|--------------------------------|--|-------------------------------------|--------------------------|
| If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the proposed Project:   |                                |  |                                     |                          |
| a. Substantially impair an adopted emergency response plan or emergency evacuation plan?  | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks of, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?   | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts on the environment? | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?   | <input type="checkbox"/>       | <input type="checkbox"/>                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

### Affected Environment

This section describes the existing wildfire conditions within the City, identifies associated regulatory requirements, and evaluates potential impacts related to implementation of the proposed Project.

No part of the City is immune to fire danger. Structural and automobile fires represent the most common types of fire in urban areas and can be caused by a variety of human, mechanical, and natural factors. Urban fires have the potential to spread to other structures or areas, particularly if not quickly extinguished. Proactive efforts, such as fire sprinkler systems, fire alarms, fire-resistant roofing, and construction methods, can collectively lessen the likelihood and reduce the severity of urban fires. Areas of dense, dry vegetation, particularly in canyon areas and on hillsides, pose the greatest potential for wildfire risks. Development in and near these natural landscapes would increase potential risks related to fire for people and personal property. In case of fire, the City would be served by the RFD.

According to the California Fire Hazard Severity Zone Viewer, portions of the City are in areas classified as Very High Fire Hazard Severity Zones (California Department of Forestry and Fire Protection 2020).

### Discussion

#### *a. Substantially impair an adopted emergency response plan or emergency evacuation plan?*

**Less-than-Significant Impact.** According to the GP 2025 Public Safety Element (City of Riverside 2018), the major urban/rural interface areas with a high-fire risk include Mount Rubidoux, the Santa Ana River Basin, Lake Hills, Mockingbird Canyon/Monroe Hills, Sycamore Canyon, Box Springs Mountain, and La Sierra/Norco Hills. The introduction of residential and non-residential development into this natural landscape would increase potential risks related to fire for people and property.

As discussed in Section IX, *Hazards and Hazardous Materials*, the RFD ensures multi-jurisdictional cooperation and communication for emergency planning and response management through activation of the SEMS. Also, the City and Riverside County prepared the Riverside County Operational Area Multi-Jurisdictional Local Hazard Mitigation Plan (LHMP - most recent iteration was prepared in July 2018). The purpose of the LHMP is to identify Riverside County's hazards (including those within the City), review and assess past disaster occurrences, estimate the probability of future occurrences, and set goals to mitigate potential risks and reduce or eliminate long-term risks for people and property from natural and man-made hazards (County of Riverside 2018).

GP 2025 includes several policies related to emergency plan implementation. Policies PS-9.1 and PS-9.3 require the City to maintain and test the City's Emergency Operations Plan. Policy PS-9.5 ensures that the City will provide information to the public regarding disaster preparedness. Policy PS-9.7 and PS-9.8 require the City to identify actions to reduce the severity and risk to the community from hazards. Policy PS-10.3 ensures that public safety infrastructure and staff resources will keep pace with new development. Policy PS-10.4 ensures that development will have adequate ingress and egress. Policy PS-10.5 requires coordination to educate people about hazard safety. Policy PS-10.6 ensures coordination between the City and public safety departments. Policy PS-10.7 and Policy PS-10.8 encourage funding for emergency response programs. Policy PS-10.9 requires the City to maintain the Emergency Operations Center and allow for expansion (City of Riverside 2018).

The updates to the Public Safety Element, as part of the proposed Project, would also proactively address wildfire hazards by minimizing the risks and consequences associated with natural and man-made hazards within Riverside through the development of goals, policies, and actions. In addition, as discussed in Section XVII, *Transportation*, the proposed Project would not directly result in any activities that would result in inadequate emergency access. Construction of an additional 30,190 housing units plus other non-residential development, per the Housing Element update, could require additional public services for future residents. The proposed Project is not expected to impair emergency access because opportunity sites are proposed near essential services.

The proposed Project represent a policy-level planned effort that facilitates but does not directly implement development proposals. Future development within the City would be required to comply with local regulations, including the general plan and development code. Also, the opportunity sites identified for rezoning are in developed areas of the City or on vacant lots and not designated as open space. Impacts related to impairing an adopted emergency response or evacuation plan would be less than significant.

***b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks of, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?***

**Less-than-Significant Impact.** Three primary factors are used in assessing wildfire hazards, topography, weather, and fuel. Future development facilitated by the proposed Project could be affected by weather conditions. The proposed Project would not include housing and non-residential development within wildfire hazard areas. The proposed Project is a policy-level planning effort that does not identify specific development proposals. Future development would be required to comply with local regulations, including GP 2025 and municipal code. Also, the opportunity sites identified for rezoning are largely in developed areas of the City. Impacts related to exacerbating wildfire risks would be less than significant.

*c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts on the environment?*

**Less-than-Significant Impact.** Future development may require new public infrastructure and utilities, which would be installed to meet fire service requirements. However, the proposed Project is a policy-level planning effort that does not provide site-specific development or design proposals. All improvements would be subject to City development standards and verified as part of either a building permit or construction approval process. As part of the standard development review process, the City's Development Review Committee, which includes the fire and building departments, evaluates developments in high fire-risk areas to ensure that improvements meet their requirements. This coordination is independent of the CEQA process; it would be unaffected by the proposed Project. Impacts related to fire risk due to the installation or maintenance of associated infrastructure would be less than significant.

*d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?*

**Less-than-Significant Impact.** The creation of additional impermeable surfaces in association with the proposed Project could exacerbate an existing flooding issue. However, the proposed Project is a policy-level planned effort that does not provide site-specific development or design proposals. All future development would be subject to City development standards and verified as part of either a building permit or construction approval process. Impacts related to downstream flooding and drainage changes would be less than significant.

Development associated with the proposed Project would not be susceptible to landslides. Grading and construction would be completed in compliance with 2019 CBC regulations, County of Riverside ordinances, and Riverside Municipal Codes related to grading, thereby reducing the potential for slope instability to occur. Also, opportunity sites are not proposed on the steepest slopes or within flood hazard areas. In addition, implementation of the proposed Project would not directly or indirectly result in substantial adverse effects, including the risk of loss, injury, or death involving landslides. The potential for downstream flooding, as well as changes in drainage patterns, would be lessened through regulations. Given the lack of landslide evidence, compliance with CBC regulations, County of Riverside ordinances, and Riverside Municipal Codes would ensure that potential impacts associated with post-fire flooding, runoff, or slope instability would be less than significant.

## XXI. Mandatory Findings of Significance

|  | Potentially Significant Impact      | Less than Significant with Mitigation Incorporated | Less-than-Significant Impact | No Impact                |
|--|-------------------------------------|--|------------------------------|--------------------------|
| a. Does the proposed Project have the potential to substantially 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, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory? | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| b. Does the proposed 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 checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |
| c. Does the proposed Project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>                           | <input type="checkbox"/>     | <input type="checkbox"/> |

### Affected Environment

CEQA provides that an EIR shall focus on the significant effects on the environment, discussing the effects with emphasis in proportion to their severity and probability of occurrence. Pursuant to CEQA Guidelines Section 15065, an EIR must be prepared if a project may have a significant effect on the environment where any of the conditions below occur.

### Discussion

*a. Does the proposed Project have the potential to substantially 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, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?*

**Potentially Significant Impact.** A significant impact would occur only if the proposed Project would have an identified potentially significant impact on a fish or wildlife species, a plant or animal community, or historical, archeological, or paleontological resources. As discussed in Section IV, *Biological Resources*, project impacts could be potentially significant and may require mitigation. The proposed Project’s potential to adversely affect biological resources will be analyzed in the forthcoming EIR. As discussed in Section V, *Cultural Resources*, project impacts could be potentially significant and may require mitigation. The proposed Project’s potential to adversely affect cultural resources will be analyzed in the forthcoming EIR.

The proposed Project could degrade the quality of the environment, reduce, or threaten fish or wildlife species (endangered or otherwise), or eliminate important examples of the major periods of California history or pre-history. Impacts from the proposed Project are potentially significant and will be analyzed in the forthcoming EIR.

***b. Does the proposed 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.)***

**Potentially Significant Impact.** The effects of the proposed Project, when combined with the effects of past, present, current, pending, and reasonably foreseeable future projects in the area, would not result in cumulatively considerable impacts for the topics found to be less-than-significant in this Initial Study.

The potential for cumulative impacts occurs when the independent impacts of the proposed Project are combined with impacts from other development in the surrounding area and result in impacts that are greater than the impacts of the proposed project alone. Current and reasonably foreseeable projects are located within the City and vicinity whose development, in conjunction with that of the proposed Project, may result in cumulative impacts. Impacts of the proposed Project on both an individual and cumulative basis will be addressed in the forthcoming EIR for the following subject areas: aesthetics, air quality, biological resources, cultural resources, GHG emissions, hazards and hazardous waste, land use and planning, noise, population and housing, public services, transportation, tribal cultural resources, and utilities and service systems.

***c. Does the proposed Project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?***

**Potentially Significant Impact.** As indicated by the analyses provided in this Initial Study, the proposed Project could produce potentially significant impacts with regard to aesthetics, air quality, biological resources, cultural resources, GHG emissions, hazards and hazardous waste, land use and planning, noise, population and housing, public services, transportation, tribal cultural resources, and utilities and service systems. As a result, these potential effects will be analyzed in the forthcoming EIR.

## References Cited

---

### I. Aesthetics

- City of Riverside General Plan 2025
- City of Riverside Municipal Code Section 19
- City of Riverside Housing Element Update Environmental Impact Report, August 2017.
- County of Riverside Light Pollution Ordinance No. 655

### II. Agricultural and Forestry Resources

- California Department of Conservation. 2020. *Data Viewer*. Available: <https://maps.conservation.ca.gov/agriculture/DataViewer/index.html>. Accessed February 2021
- City of Riverside. 2012. *General Plan Open Space and Conservation Element*. November. Available: [https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/12\\_Open\\_Space\\_and\\_Conservation\\_Element.pdf](https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/12_Open_Space_and_Conservation_Element.pdf). Accessed February 2021.
- Riverside County Agricultural Commissioner's. 2018. *Agricultural Production Reports*. Available: <https://www.rivcoawm.org/resources/publications-databases>. Accessed March 2021.

### III. Air Quality

- CARB. 2005. *Air Quality and Land Use Handbook: A Community Health Perspective*. April. Available: <https://ww3.arb.ca.gov/ch/handbook.pdf>. Accessed January 2021.
- SCAQMD. 2005. *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning*. May 6. Available: <https://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf?sfvrsn=4>. Accessed January 2021.
- SCAQMD. 2016. *National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin*. February. Available: <https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=2>. Accessed January 2021.
- United States Environmental Protection Agency. 2020. *Nonattainment Areas for Criteria Pollutants (Green Book)*. Updated December 31, 2020. Available: <https://www.epa.gov/green-book>. Accessed January 2021.

### IV. Biological Resources

- Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, T.J. Rosatti, and D.H. Wilken, eds. 2012. *The Jepson Manual: Vascular Plants of California*, second edition. Berkeley, CA: University of California Press.
- California Department of Fish and Wildlife (CDFW). 2021. California Natural Diversity Database. Sacramento, CA. Wildlife and Habitat Data Analysis Branch. Element reports for Plan Area USGS 7.5-minute quadrangle maps. Data date: February 2021.

California Native Plant Society (CNPS). 2021. Inventory of Rare and Endangered Plants (online edition, v7-11). Sacramento, CA: California Native Plant Society. Available: <http://www.cnps.org/inventory>. Accessed: February 2021.

Western Riverside County Regional Conservation Authority (WRCRCA). 2021a. MSHCP Data Downloads, Vegetation 2012. Riverside Conservation Authority. Available: <https://data-wrcrca.opendata.arcgis.com/>. Accessed: January 2021.

Western Riverside County Regional Conservation Authority (WRCRCA). 2021b. MSHCP Fees. Available: <https://www.wrc-rca.org/development-applications/permits-and-fees/>. Accessed: February 2021.

Riverside County Habitat Conservation Agency (RCHCA). 1996. Habitat Conservation Plan for the Stephens' Kangaroo Rat in Western Riverside County, California. Volume 1. March 1996.

RCHCA. 2021. Stephens' Kangaroo Rat Mitigation Fee. Available: <https://www.rchca.us/185/Stephens-Kangaroo-Rat-Mitigation-Fee#:~:text=The%20Mitigation%20Fee%20is%20%24500,is%20%24250%20per%20residential%20unit>. Accessed: February 2021.

Upper Santa Ana River Sustainable Resources Alliance. 2021. About the HCP, <http://www.uppersarhpc.com/About.aspx>. Accessed March 2021.

U.S. Fish and Wildlife Service (USFWS). 2021a. USFWS IPaC Resource List. Carlsbad, CA. February 2021.

U.S. Fish and Wildlife Service (USFWS). 2021b. Critical Habitat GIS Data. Carlsbad, CA. Available: <http://www.fws.gov/carlsbad/GIS/CFWOGIS.html>. Accessed: January 2021.

U.S. Fish and Wildlife Service (USFWS). 2021c. National Wetlands Inventory. Washington, D.C. Available: <http://www.fws.gov/wetlands/>. Accessed: January 2021.

## V. Cultural Resources

None.

## VI. Energy

City of Riverside. 2012. *General Plan – Open Space and Conservation Element*. Available: [https://riversideca.gov/cedd/sites/riversideca.gov.icedd/files/pdf/planning/general-plan/12\\_Open\\_Space\\_and\\_Conservation\\_Element.pdf](https://riversideca.gov/cedd/sites/riversideca.gov.icedd/files/pdf/planning/general-plan/12_Open_Space_and_Conservation_Element.pdf). Accessed January 22, 2021.

City of Riverside. 2017. *Utility 2.0 Strategic Plan*. Available: <https://riversideca.gov/utilities/about-ru/pdf/Utility%202.pdf>. Accessed January 22, 2021.

California Energy Commission. 2019. *Building Energy Efficiency Standards*. Available: <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2019-building-energy-efficiency>. Accessed January 22, 2021.

California Code of Regulations, Title 24. 2019. *California Building Standards Code*. Available: <https://www.dgs.ca.gov/BSC/Codes>. Accessed January 22, 2021.

California Code of Regulations, Title 24, Part 2. 2019. *California Building Code*. Available: <https://codes.iccsafe.org/content/CBC2019P2>. Accessed January 22, 2021.

- California Code of Regulations, Title 24, Part 11. 2019. *California Green Building Standards Code*. Available: <https://codes.iccsafe.org/content/CAGBSC2019/cover>. Accessed January 22, 2021.
- Edison International and Southern California Edison. 2019. *2019 Annual Report*. Available: <https://www.edison.com/content/dam/eix/documents/investors/corporate-governance/eix-sce-2019-annual-report.pdf>. Accessed: January 25, 2021.
- Riverside Public Utilities. 2019a. *2019 Financial Report*. Available: <https://www.riversideca.gov/utilities/about-rpu/pdf/2019%20Annual%20Report.pdf>. Accessed: January 25, 2021.
- Riverside Public Utilities. 2019b. *Riverside Public Utilities 101*. Available: [https://www.riversideca.gov/utilities/PDF/RPU\\_101\\_Web\\_2015.pdf](https://www.riversideca.gov/utilities/PDF/RPU_101_Web_2015.pdf). Accessed January 25, 2021.
- Riverside Public Utilities. 2021. *RPU Virtual Tour*. Available: <https://www.riversideca.gov/utilities/about-rpu/general-info-virtual-tour.asp>. Accessed January 25, 2021.
- Southern California Association of Governments (SCAG). 2020. *Regional Housing Needs Assessment*. Available: <https://scag.ca.gov/sites/main/files/file-attachments/rhna-draft-allocations-090320-updated.pdf?1602188695>. Access January 25, 2021.
- Southern California Gas Company. 2020. *Company Profile*. Available: <https://www.socalgas.com/about-us/company-profile>. Accessed January 25, 2021.

## VII. Geology, Soils, and Paleontological Resources

### Printed References

- Albert A. Webb Associates. 2007. *City of Riverside General Plan and Supporting Documents EIR*. Available: [https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/vol2/5-6\\_Geology\\_and\\_Soils.pdf](https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/vol2/5-6_Geology_and_Soils.pdf). Accessed: February 4, 2021.
- California Geological Survey. 2021. CGS Information Warehouse. Available: <http://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps>. Accessed January 26, 2021.
- City of Riverside. 2007. *Riverside General Plan 2025*, 18 Public Safety Element. Available: <https://riversideca.gov/cedd/planning/city-plans/general-plan-0>. Accessed: January 26, 2021.
- National Park Service. 2020. Fossils and Paleontology: Paleontological Resource Monitoring. Available: <https://www.nps.gov/subjects/fossils/resource-monitoring.htm>. Accessed: January 22, 2021.
- Power Engineers and Deméré, T. 2010. Riverside Transmission Reliability Project. Paleontology Technical Report. June.
- Rogers, T.H. 1965. Geologic Map of California: Santa Ana Sheet. Available: [https://www.conservation.ca.gov/cgs/Documents/Publications/Geologic-Atlas-Maps/GAM\\_019-Map-1965.pdf](https://www.conservation.ca.gov/cgs/Documents/Publications/Geologic-Atlas-Maps/GAM_019-Map-1965.pdf). Accessed: January 25, 2021.
- Rogers, T.H. 1967. Geologic Map of California: San Bernardino Sheet. Available: [https://www.conservation.ca.gov/cgs/Documents/Publications/Geologic-Atlas-Maps/GAM\\_014-Map-1967.pdf](https://www.conservation.ca.gov/cgs/Documents/Publications/Geologic-Atlas-Maps/GAM_014-Map-1967.pdf). Accessed: January 25, 2021.

Society of Vertebrate Paleontology. 2010. Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources. Impact Mitigation Guidelines Revision Committee. Available: [http://vertpaleo.org/Membership/Member-Ethics/SVP\\_Impact\\_Mitigation\\_Guidelines.aspx](http://vertpaleo.org/Membership/Member-Ethics/SVP_Impact_Mitigation_Guidelines.aspx). Accessed: January 22, 2021.

University of California Museum of Paleontology. n.d. What is a Fossil? Available: <https://ucmp.berkeley.edu/paleo/fossils/>. Accessed: January 22, 2021.

## Personal Communications

Bell, Alyssa. Natural History Museum of Los Angeles County, Los Angeles, CA. January 2, 2021—letter report to Diana Roberts, Senior Environmental Planner, ICF, San Jose, CA.

## VIII. Greenhouse Gas Emissions

City of Riverside. 2016. *Economic Prosperity Action Plan and Climate Action Plan*. January. Available: <https://corweb.riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/other-plans/2016%20Riverside%20Restorative%20Growthprint%20Economic%20Proposerity%20Action%20Plan%20and%20Climate%20Action%20Plan.pdf>. Accessed January 2021.

## IX. Hazards and Hazardous Materials

California Environmental Protection Agency 2021. Cortese List Data Resources. Available: <https://calepa.ca.gov/sitecleanup/corteselist/>. Accessed: January 28, 2021.

City of Riverside 2007. Riverside General Plan 2025 Education Element. Available: [https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/09\\_Education\\_Element.pdf](https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/09_Education_Element.pdf). Accessed: January 28, 2021.

City of Riverside 2018. Riverside General Plan 2025 Public Safety Element. Available: [https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/18\\_Public\\_Safety\\_Element\\_with%20maps.pdf](https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/18_Public_Safety_Element_with%20maps.pdf). Accessed: January 28, 2021.

County of Riverside 2005a. Riverside Municipal Airport and Environs. Available: <http://www.rcaluc.org/Portals/13/PDFGeneral/plan/newplan/41-%20Vol.%202%20Riverside%20Municipal.pdf>. Accessed: January 28, 2021.

County of Riverside 2005b. Compatibility Map Delineation. Available: <http://www.rcaluc.org/Portals/13/PDFGeneral/plan/newplan/20-%20Vol.%201%20Riverside%20Municipal.pdf>. Accessed: January 28, 2021.

County of Riverside. 2018. County of Riverside Multi-Jurisdictional Local Hazard Mitigation Plan. Available: [https://www.rivcoemd.org/Portals/0/FINAL%20PUBLIC%20VERSION%20Riv\\_Co\\_%202018%20Multi%20Jurisdictional%20Local%20Hazard%20Mitigation%20Plan.pdf](https://www.rivcoemd.org/Portals/0/FINAL%20PUBLIC%20VERSION%20Riv_Co_%202018%20Multi%20Jurisdictional%20Local%20Hazard%20Mitigation%20Plan.pdf). Accessed: January 28, 2021.

## X. Hydrology and Water Quality

California Department of Water Resources. 2004. California's Groundwater Bulletin 118, *Upper Santa Ana Valley Groundwater Basin, Riverside-Arlington Subbasin*. February 27.

\_\_\_\_\_. 2020. SGMA Basin Prioritization Dashboard. Available: <https://gis.water.ca.gov/app/bp-dashboard/final/>. Visited: March 15, 2021.

City of Riverside. 2019. Riverside Citywide Design Guidelines and Sign Guidelines. Adopted November 2007 Resolution No. 21544. Amended January 2019. Resolution No. 23405.

City of Riverside - Annex. 2018. Local Hazard Mitigation Plan. Approved by FEMA July 30, 2018.

City of Riverside Public Utilities Department. 2016. Draft 2015 Urban Water Management Plan. Prepared by Water Systems Consulting, Inc. June.

Federal Emergency Management Agency. 2008. FEMA's National Flood Hazard Layer (NFHL) Viewer. Available: <https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd>. Accessed: January 25, 2021.

Kent, Robert, and Belitz, Kenneth, 2012, Groundwater quality in the Upper Santa Ana Watershed study unit, California: U.S. Geological Survey Fact Sheet 2012-3037, 4 p.

Langridge, Ruth. Brown, Abigail. Rudestam, Kirsten and Conrad, Esther. 2016. An Evaluation of California's Adjudicated Groundwater Basin, Report for the State Water Resources Control Board.

Water Education Foundation. 2021. Santa Ana River. Available: <https://www.watereducation.org/aquapedia/santa-ana-river>. Accessed: January 22, 2021.

State Water Resources Control Board. 2018. 2014/2016 California Integrated Report (Clean Water Act Section 303(d) List/305(b) Report). Last updated: 2018. Available: [https://www.waterboards.ca.gov/water\\_issues/programs/tmdl/integrated2014\\_2016.shtml](https://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2014_2016.shtml). Accessed: January 22, 2021.

## **XI. Land Use and Planning**

City of Riverside. 2012. *General Plan 2025 – Land Use Element*. Available: [https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/12\\_Open\\_Space\\_and\\_Conservation\\_Element.pdf](https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/12_Open_Space_and_Conservation_Element.pdf). Accessed January 29, 2021.

Southern California Association of Governments (SCAG). 2020. *Regional Housing Needs Assessment*. Available: <https://scag.ca.gov/sites/main/files/file-attachments/rhna-draft-allocations-090320-updated.pdf?1602188695>. Access January 28, 2021.

## **XII. Mineral Resources**

City of Riverside. 2012. *General Plan Open Space and Conservation Element*. November. Available: [https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/12\\_Open\\_Space\\_and\\_Conservation\\_Element.pdf](https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/12_Open_Space_and_Conservation_Element.pdf). Accessed February 2021.

SMGB. 2000. *Guidelines for Classification and Designation of Mineral Lands*. Available: <https://www.conservation.ca.gov/smgb/Guidelines/Documents/ClassDesig.pdf>. Accessed: February 2021

## **XIII. Noise**

City of Riverside 2021 *City of Riverside Municipal Code*. Last revised: January 21, 2021 Available: [https://library.municode.com/ca/riverside/codes/code\\_of\\_ordinances?nodeId=PTIICOOR\\_TIT7NOC\\_O\\_CH7.35GENORE](https://library.municode.com/ca/riverside/codes/code_of_ordinances?nodeId=PTIICOOR_TIT7NOC_O_CH7.35GENORE). Accessed: 2/1/2021.

City of Riverside(a) 2016 *City of Riverside General Plan Noise Element*. Available:  
[https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/10\\_Noise\\_Element\\_with%20maps.pdf](https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/10_Noise_Element_with%20maps.pdf). Accessed: 2/1/2021.

FTA. 2018. *Transit Noise and Vibration Impact Assessment Manual*. Final. FTA Report No. 0123. Washington, DC. Prepared for Federal Transit Administration (Washington DC).

## **XIV. Population and Housing**

City of Riverside. 2018. *General Plan Housing Element*. June 19. Available:  
[https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/Housing%20Element\\_Adopted%2006-19-18\\_Housing%20Policy%20Chapter%20only.pdf](https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/Housing%20Element_Adopted%2006-19-18_Housing%20Policy%20Chapter%20only.pdf). Accessed January 2021.

SCAG. 2020. *SoCal Connect Demographics and Growth Forecasts*. September 3. Available:  
[https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial\\_demographics-and-growth-forecast.pdf?1606001579](https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial_demographics-and-growth-forecast.pdf?1606001579). Accessed January 2021.

Department of Finance. 2020. *E-1 Population Estimates for Cities, Counties, and the State — January 1, 2019 and 2020*. May. Available: <https://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-1/>. Accessed January 2021.

## **XV. Public Services**

City of Riverside. 2020. *Comprehensive Park, Recreation & Community Services Master Plan*. February 4. Available:  
[https://www.riversideca.gov/park\\_rec/sites/riversideca.gov/park\\_rec/files/56402%20Riverside%20Master%20Plan%20Final%2002-26-20.pdf](https://www.riversideca.gov/park_rec/sites/riversideca.gov/park_rec/files/56402%20Riverside%20Master%20Plan%20Final%2002-26-20.pdf). Accessed January 2021.

City of Riverside. 2021a. *At Home in Riverside, Riverside Unified School District*. Available:  
<https://www.riversideca.gov/athomeinriverside/rusd.asp>. Accessed: February 2021.

City of Riverside. 2021b. *At Home in Riverside, Alvord Unified School District*. Available:  
<https://www.riversideca.gov/athomeinriverside/alvord.asp>. Accessed: February 2021.

## **XVI. Recreation**

City of Riverside. 2020. *Comprehensive Park, Recreation & Community Services Master Plan*. February 4. Available:  
[https://www.riversideca.gov/park\\_rec/sites/riversideca.gov/park\\_rec/files/56402%20Riverside%20Master%20Plan%20Final%2002-26-20.pdf](https://www.riversideca.gov/park_rec/sites/riversideca.gov/park_rec/files/56402%20Riverside%20Master%20Plan%20Final%2002-26-20.pdf). Accessed January 2021.

City of Riverside. 2012. *Parks and Recreation Element*. November. Available:  
[https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/15\\_Park\\_and\\_Recreation\\_Element.pdf](https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/15_Park_and_Recreation_Element.pdf). Accessed January 2021.

Department of Finance. 2020. *E-1 Population Estimates for Cities, Counties, and the State — January 1, 2019 and 2020*. May. Available: <https://www.dof.ca.gov/Forecasting/Demographics/Estimates/E-1/>. Accessed January 2021.

## **XVII. Transportation**

Fehr & Peers. Draft Existing Conditions Transportation Report, Riverside Housing Element Update. January 2021.

2025 Riverside General Plan, Circulation and Community Mobility Element, 2018.

## **XVIII. Tribal Cultural Resources**

None.

## **XIX. Utilities and Service Systems**

California Legislative Information. 2021. *Public Resources Code, Part 1, Integrated Waste Management*. Available: [https://leginfo.ca.gov/faces/codes\\_displayText.xhtml?lawCode=PRC&division=30.&title=&part=1.&chapter=1.&article=2](https://leginfo.ca.gov/faces/codes_displayText.xhtml?lawCode=PRC&division=30.&title=&part=1.&chapter=1.&article=2). Accessed: March 2021.

City of Riverside. 2008. *Wastewater Collection and Treatment Facilities Integrated Master Plan*. Available: <https://riversideca.gov/pworks/masterplan-wastewater.asp>. Accessed: February 2021.

City of Riverside Public Utilities Department. 2016. *2015 Urban Water Management Plan*. Available: [https://www.riversideca.gov/utilities/about-rpu/pdf/RPU\\_2015\\_UWMP\\_June.pdf](https://www.riversideca.gov/utilities/about-rpu/pdf/RPU_2015_UWMP_June.pdf). Accessed: February 2021.

California Integrated Waste Management Board. 2002. *City of Riverside: A Model for Local Government Recycling and Waste Reduction*. Publication #310.02.003. January.

## **XX. Wildfire**

California Department of Forestry and Fire Protection. 2020. California Fire Hazard Severity Zone Viewer. Available: <https://gis.data.ca.gov/datasets/789d5286736248f69c4515c04f58f414>. Accessed: January 28, 2021.

City of Riverside. 2018. *General Plan Public Safety Element*. February. Available: [https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/18\\_Public\\_Safety\\_Element\\_with%20maps.pdf](https://riversideca.gov/cedd/sites/riversideca.gov/cedd/files/pdf/planning/general-plan/18_Public_Safety_Element_with%20maps.pdf). Accessed January 2021.

## **XXI. Mandatory Findings of Significance**

None





03-013-2021-002

May 07, 2021

[VIA EMAIL TO:mtaylor@riversideca.gov]  
City of Riverside  
Mr. Matthew Taylor  
3900 Main Street  
Riverside, CA 92522

**Re: SB18 and AB52 City of Riverside Housing and Public Safety Element Updates and Environmental Justice Policies Project**

Dear Mr. Matthew Taylor,

The Agua Caliente Band of Cahuilla Indians (ACBCI) appreciates your efforts to include the Tribal Historic Preservation Office (THPO) in the Housing and Public Safety Element Updates and Environmental Justice Policies project. The project area is not located within the boundaries of the ACBCI Reservation. However, it is within the Tribe's Traditional Use Area. For this reason, the ACBCI THPO requests the following:

\*Copies of any cultural resource documentation (report and site records) generated in connection with this project.

Again, the Agua Caliente appreciates your interest in our cultural heritage. If you have questions or require additional information, please call me at (760)699-6956. You may also email me at ACBCI-THPO@aguacaliente.net.

Cordially,

Lacy Padilla  
Archaeologist  
Tribal Historic Preservation Office  
AGUA CALIENTE BAND  
OF CAHUILLA INDIANS

**From:** [Taylor, Matthew](#)  
**To:** [Leight, Debra](#); [Rondone, Alison](#)  
**Cc:** [Robert Kain](#); [Kopaskie-Brown, Mary](#); [Murray, David](#)  
**Subject:** FW: [External] PR-2021-001058  
**Date:** Friday, May 7, 2021 1:50:57 PM

---

FYI, comment for the NOP – this one is late, not sure how you want to handle. Thanks!

---

**From:** Robin Whittington <desertair@sbcglobal.net>  
**Sent:** Friday, May 7, 2021 9:24 AM  
**To:** Taylor, Matthew <MTaylor@riversideca.gov>  
**Subject:** [External] PR-2021-001058

Dear Mr. Taylor,

In reading your Notice of Preparation of Draft for the above reference, I note that there is no consideration of the average number of vehicles per unit and just where and what will accommodate them. As I drove through my area this morning I noted a minimum of 3 vehicles per residential dwelling. In the gated communities around me that I have visited, I note that the streets are crowded with vehicles which precludes even accommodating visitors and guests to individual homes. AND as a resulting condition of this, the area starts to look like a ghetto full of vehicles. It is one of the things we, as long term residents of Woodcrest, have fought against with any development. The developments plan on using existing streets which increases traffic at least 3-fold. Most germane to my own situation, it means that my street will equal the traffic on Van Buren Blvd and it will degrade the neighborhood, devalue the homes herein, and create a greater hazard for people walking, on bikes and on horses. An example is the house right next to me. Single story residence on 1/2 acre. Recently sold, it is now the home to 7 people and has both personal and business vehicles parked on the property. At any time there are at least 5 vehicles parked on the property. This is not an exception but is proving to be the norm. Please think about this as you work through your report.

It is ludicrous to impose New York City living designs on California, a driving state. I know that is not in your purview to change and you are responding to a State mandate, but not only is traffic an issue, but as you pointed out, emergency vehicle passage is a consideration. An example is Van Buren Blvd in the Woodcrest area. Because one family lost a son when either he or a vehicle going the opposite direction, crossed over the center line, there is now a raised median in place. As I live parallel to Van Buren, I hear the emergency vehicles trying to navigate a road packed with vehicles with no place to pull over. The whole purpose of 'move to the right' for emergency vehicles was to allow a corridor down the middle for emergency vehicles. Today that is not an option and the public suffers. What this also tells me is that at the higher level there is a plan but at the action level, the plans are ignored or tweaked to satisfy the current elected official's perception of self and the job to be done.

We won't even talk about water and power issues. The State on one hand is mandating less use of each but expecting what they do have to accommodate a mass increase. Already, the City no longer services all water and electricity needs as they have annexed areas outside that service. Those services are obtained from SCE and WMWD. If you have to do this plan, please do it responsibly.

And, please consider the number of vehicles not only traversing the roads but also blocking

the roads and residential streets due to the increased model of the average family having at least 3 vehicles and more likely 4 or 5 vehicles.

Robin Whittington

Keep Riverside healthy: Wear a face covering, maintain healthy diet and exercise, wash your hands, and get vaccinated. [RiversideCA.gov/COVID-19](https://www.riversideca.gov/COVID-19)

To: Matthew Taylor, Senior Planner  
City of Riverside, CA 92522

May 5, 2021

Re: Comments on Draft EIR for Housing, Safety and Environmental Justice

Advantages to living in Riverside are now threatened by three proposals for thousands of new apartment units, the sale of City land for development – not for parks or open space -- and by State legislation to pave over local conservation of agriculture and open space with more housing.

Riverside has always been a great place to live—where a poor resident can enjoy all the California amenities usually reserved for the rich. We have beautiful mountains, the desert nearby, canyons to explore. Most importantly we have good zoning and two slow growth ordinances, nice homes, good neighborhoods and friendly neighbors and an abundance of open space. Riverside still has the old fashioned feel of home.

The median income for a family of four in Riverside is actually only \$34,000 a year -- not \$56,000 which includes public employees – according to a Press Enterprise editorial. This means that a majority of Riverside residents are very low, low, or moderate income.

Where is the economic and environmental justice for current residents? Adding an additional 100,000 people in 8 years adversely impacts the quality of life for current residents. This State mandate is unfair to a city already housing almost 50% of its population in lower cost housing and housing them quite well.

The City of Riverside is not a job center. Today over half of Riverside residents commute more than 25 minutes each way to their jobs. This adds to the air pollution sent to us from Los Angeles. Attracting corporate business is difficult because executives and owners wish to live where their businesses are located. Extremely poor air quality is not a magnet.

Today Riverside has the second worst air quality in the nation. Current residents suffer from diseases caused by the poor air quality: asthma, COPD, heart disease. Riverside does not have enough doctors. Adding 100,000 more residents burdens health care even more.

Commuting freeways to Orange and Los Angeles county jobs are already badly congested. Public transportation such as buses and trains serve a small group of people. It takes a Mission Grove resident 20 minutes in the morning to get to the 91 freeway on Alessandro Blvd. Then add an additional 25 minutes on the freeway.

The present City Council is selling off irreplaceable lands for future open space and recreational needs owned by City Utilities: a golf course, sports fields, and the 250-acre Pellisier Ranch along the Santa Ana River. Currently Riverside is termed “underparked”. Past city councils did not request adequate fees from developers to build and maintain parks. Our parks are crowded now. Where will thousands of new residents enjoy recreation and open space?

[Type here]

Additionally the libraries are greatly underfunded and the Riverside Municipal Museum has been shut for last four years with no opening date. So much for cultural resources. Riverside residents are forced to go elsewhere.

The cost of buying a home in the City of Riverside is half of what it is in Orange, Los Angeles, San Diego and Ventura counties. The ratio of renters to homeowners in the City of Riverside has grown. It is currently 60% renters and 40% homeowners. By adding massive numbers of apartments the gap will only grow toward a city of many more renters than homeowners, not a good situation for the quality of life, City Hall's financial position and neighborhood stability.

Currently Riverside protects 10% of the city from overly dense housing growth with the voter initiatives Prop R and Measure C, which were upheld by the California Supreme Court. The California State Senate has introduced legislation SB 10 to nullify all local zoning passed by the initiative process. SB 10 allows 10 units an acre and could, without a vote of local residents, pave over conservation lands critical to reducing global warming.

Mary Humboldt  
7407 Dufferin Ave.  
Riverside, CA 92504

[Type here]

---

**From:** Elizabeth Pinney Muglia <[elizabeth.m@ccaej.org](mailto:elizabeth.m@ccaej.org)>  
**Sent:** Thursday, April 22, 2021 3:42 PM  
**To:** Taylor, Matthew <[MTaylor@riversideca.gov](mailto:MTaylor@riversideca.gov)>  
**Cc:** Janice Rooths <[antiracistriverside@gmail.com](mailto:antiracistriverside@gmail.com)>; Maribel Nunez <[maribel@inlandequitypartnership.org](mailto:maribel@inlandequitypartnership.org)>; Jeff Green <[jeffgreen.cap@gmail.com](mailto:jeffgreen.cap@gmail.com)>; Damien O'Farrell <[damien@parkviewlegacy.org](mailto:damien@parkviewlegacy.org)>; Ashton Davis <[ashton@adavis.me](mailto:ashton@adavis.me)>; Freya Foley <[ffoley7955@aol.com](mailto:ffoley7955@aol.com)>; Tanya Humphery <[tanya.farmgirl@gmail.com](mailto:tanya.farmgirl@gmail.com)>; [janet.b@ccaej.org](mailto:janet.b@ccaej.org); Ana Gonzalez <[ana.g@ccaej.org](mailto:ana.g@ccaej.org)>; Murray, David <[DMurray@riversideca.gov](mailto:DMurray@riversideca.gov)>; Kopaskie-Brown, Mary <[MKopaskie-Brown@riversideca.gov](mailto:MKopaskie-Brown@riversideca.gov)>  
**Subject:** Re: [External] Re: 4/22/21 Workshop - Request

Hi Matt,

Thanks for all your work!

Maribel asked me to give you a heads up on some of the EJ questions or comments that may come up tonight. I know some are sensitive, especially around the voter approved initiatives.

- What policies currently exist that address environmental justice (EJ), particularly related to air and water quality in disadvantaged communities?
- What tools are used to identify EJ disadvantaged communities?
- How are existing policies compared to advocacy group recommendations or similar policies in other jurisdictions?
- What mechanism or department is in place to enforce EJ policies?
- Are there plans to have a public meeting with a review of EJ efforts in the city?
- Recommendation: Mark on a map any sites in the city that are contaminated and ensure the proposed sites are not in proximity/have proper buffer
- Recommendation: Use CalEnviroScreen to map EJ communities and consider zoning overlays to prevent future industrial uses in these communities and protect the residents from further degradation of air quality and built environment.
- Question: In order to address limitations in broad swaths of Ward 4, consider reviewing Prop R and Measure C - are these truly being used agriculturally or protecting wealthy communities by protecting the practice of exclusionary zoning? Could SB 330 be used as an opportunity to open up some areas for multifamily zoning in these voter approved "moratoriums" on multifamily housing uses?

- Recommendation: More city engagement/initiative to fund (bring state funds and appropriate city funds) additional public transit and expansion of transit corridors so that spreading housing doesn't lead to isolated low income communities for those without cars and also doesn't continue to have a sprawl effect that creates more vehicle traffic and air pollution.

We look forward to the workshop!

--

Liz Pinney-Muglia (she/her)

Policy Director

Center for Community Action and Environmental Justice

C: (951) 543-1740 | E: [elizabeth.m@ccaej.org](mailto:elizabeth.m@ccaej.org) | W: <https://www.ccaej.org>

On Thu, Apr 22, 2021 at 10:29 AM Taylor, Matthew <[MTaylor@riversideca.gov](mailto:MTaylor@riversideca.gov)> wrote:

|



## NATIVE AMERICAN HERITAGE COMMISSION

RECEIVED

April 6, 2021

APR 13 2021

Community & Economic  
Development DepartmentCHAIRPERSON  
**Laura Miranda**  
LuiseñoMatthew Taylor  
City of Riverside  
3900 Main Street, 3<sup>rd</sup> Floor  
Riverside, CA 92522**Re: 2021040089, Riverside Housing and Public Safety Element Updates and Environmental Justice Policies Project, Riverside County**VICE CHAIRPERSON  
**Reginald Pagaling**  
Chumash

Dear Mr. Taylor:

SECRETARY  
**Merrí Lopez-Keller**  
Luiseño

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit. 14, § 15064.5 (b) (CEQA Guidelines § 15064.5 (b))). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines § 15064 (a)(1))). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

PARLIAMENTARIAN  
**Russell Attebery**  
KarukCOMMISSIONER  
**William Mungary**  
Paiute/White Mountain  
ApacheCOMMISSIONER  
**Julie Tumamait-Stenslie**  
ChumashCOMMISSIONER  
[Vacant]COMMISSIONER  
[Vacant]COMMISSIONER  
[Vacant]EXECUTIVE SECRETARY  
**Christina Snider**  
Pomo

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

**NAHC HEADQUARTERS**  
1550 Harbor Boulevard  
Suite 100  
West Sacramento,  
California 95691  
(916) 373-3710  
[nahc@nahc.ca.gov](mailto:nahc@nahc.ca.gov)  
[NAHC.ca.gov](http://NAHC.ca.gov)

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

**Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.**

## AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

**1. Fourteen-Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project:**

Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

- a. A brief description of the project.
- b. The lead agency contact information.
- c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
- d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

**2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report:** A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

- a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

**3. Mandatory Topics of Consultation If Requested by a Tribe:** The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- a. Alternatives to the project.
- b. Recommended mitigation measures.
- c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).

**4. Discretionary Topics of Consultation:** The following topics are discretionary topics of consultation:

- a. Type of environmental review necessary.
- b. Significance of the tribal cultural resources.
- c. Significance of the project's impacts on tribal cultural resources.
- d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

**5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process:** With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

**6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document:** If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
- b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

- 7. Conclusion of Consultation:** Consultation with a tribe shall be considered concluded when either of the following occurs:
- a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
  - b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).
- 8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document:** Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).
- 9. Required Consideration of Feasible Mitigation:** If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).
- 10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:**
- a. Avoidance and preservation of the resources in place, including, but not limited to:
    - i. Planning and construction to avoid the resources and protect the cultural and natural context.
    - ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
  - b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
    - i. Protecting the cultural character and integrity of the resource.
    - ii. Protecting the traditional use of the resource.
    - iii. Protecting the confidentiality of the resource.
  - c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
  - d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).
  - e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).
  - f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).
- 11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource:** An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
- a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.
  - b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
  - c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: [http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation\\_CalEPAPDF.pdf](http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf)

## SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: [https://www.opr.ca.gov/docs/09\\_14\\_05\\_Updated\\_Guidelines\\_922.pdf](https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf).

Some of SB 18's provisions include:

1. **Tribal Consultation:** If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. **No Statutory Time Limit on SB 18 Tribal Consultation.** There is no statutory time limit on SB 18 tribal consultation.
3. **Confidentiality:** Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. **Conclusion of SB 18 Tribal Consultation:** Consultation should be concluded at the point in which:
  - a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
  - b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: <http://nahc.ca.gov/resources/forms/>.

## NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center ([http://ohp.parks.ca.gov/?page\\_id=1068](http://ohp.parks.ca.gov/?page_id=1068)) for an archaeological records search. The records search will determine:
  - a. If part or all of the APE has been previously surveyed for cultural resources.
  - b. If any known cultural resources have already been recorded on or adjacent to the APE.
  - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
  - d. If a survey is required to determine whether previously unrecorded cultural resources are present.
2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
  - a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.

- b.** The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.
- 3.** Contact the NAHC for:
- a.** A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
  - b.** A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
- 4.** Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
- a.** Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, § 15064.5(f) (CEQA Guidelines § 15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
  - b.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
  - c.** Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code § 7050.5, Public Resources Code § 5097.98, and Cal. Code Regs., tit. 14, § 15064.5, subdivisions (d) and (e) (CEQA Guidelines § 15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address:  
[Andrew.Green@nahc.ca.gov](mailto:Andrew.Green@nahc.ca.gov).

Sincerely,



Andrew Green  
Cultural Resources Analyst

cc: State Clearinghouse



SOUTHERN CALIFORNIA  
ASSOCIATION OF GOVERNMENTS  
900 Wilshire Blvd., Ste. 1700  
Los Angeles, CA 90017  
T: (213) 236-1800  
www.scag.ca.gov

May 5, 2021

Mr. Matthew Taylor, Senior Planner  
City of Riverside Community and Economic Development Department, Planning  
Division  
3900 Main Street, 3<sup>rd</sup> Floor  
Riverside, California 92522  
Phone: (951) 826-5944  
E-mail: [mtaylor@riversideca.gov](mailto:mtaylor@riversideca.gov)

**RE: SCAG Comments on the Notice of Preparation of a Draft Environmental Impact Report for the Riverside Housing and Public Safety Element Updates and Environmental Justice Policies Project [SCAG NO. IGR10382]**

Dear Mr. Taylor,

Thank you for submitting the Notice of Preparation of a Draft Environmental Impact Report for the Riverside Housing and Public Safety Element Updates and Environmental Justice Policies Project (“proposed project”) to the Southern California Association of Governments (SCAG) for review and comment. SCAG is responsible for providing informational resources to regionally significant plans, projects, and programs per the California Environmental Quality Act (CEQA) to facilitate the consistency of these projects with SCAG’s adopted regional plans, to be determined by the lead agencies.<sup>1</sup>

Pursuant to Senate Bill (SB) 375, SCAG is the designated Regional Transportation Planning Agency under state law and is responsible for preparation of the Regional Transportation Plan (RTP) including the Sustainable Communities Strategy (SCS). SCAG’s feedback is intended to assist local jurisdictions and project proponents to implement projects that have the potential to contribute to attainment of Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) goals and align with RTP/SCS policies. Finally, SCAG is also the authorized regional agency for Inter-Governmental Review (IGR) of programs proposed for Federal financial assistance and direct Federal development activities, pursuant to Presidential Executive Order 12372.

SCAG staff has reviewed the Notice of Preparation of a Draft Environmental Impact Report for the Riverside Housing and Public Safety Element Updates and Environmental Justice Policies Project in Riverside County. The proposed project includes updates to the Housing and Safety Elements, and the addition of Environmental Justice Policies, along with the discretionary actions and approvals required to implement these changes.

**When available, please email environmental documentation to [IGR@scag.ca.gov](mailto:IGR@scag.ca.gov) providing, at a minimum, the full public comment period for review.**

If you have any questions regarding the attached comments, please contact the Inter-Governmental Review (IGR) Program, attn.: Anita Au, Senior Regional Planner, at (213) 236-1874 or [IGR@scag.ca.gov](mailto:IGR@scag.ca.gov). Thank you.

Sincerely,

Rongsheng Luo  
Acting Manager, Compliance and Performance Monitoring

<sup>1</sup>Lead agencies such as local jurisdictions have the sole discretion in determining a local project’s consistency with the 2020 RTP/SCS (Connect SoCal) for the purpose of determining consistency for CEQA.

REGIONAL COUNCIL OFFICERS

- President  
Rex Richardson, Long Beach
- First Vice President  
Clint Lorimore, Eastvale
- Second Vice President  
Jan C. Harnik, Riverside County  
Transportation Commission
- Immediate Past President  
Alan D. Wapner, San Bernardino  
County Transportation Authority

COMMITTEE CHAIRS

- Executive/Administration  
Rex Richardson, Long Beach
- Community, Economic &  
Human Development  
Jorge Marquez, Covina
- Energy & Environment  
David Pollock, Moorpark
- Transportation  
Cheryl Viegas-Walker, El Centro

**COMMENTS ON THE NOTICE OF PREPARATION OF A  
DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE  
RIVERSIDE HOUSING AND PUBLIC SAFETY ELEMENT UPDATES AND ENVIRONMENTAL  
JUSTICE POLICIES PROJECT [SCAG NO. IGR10382]**

**CONSISTENCY WITH CONNECT SOCIAL**

SCAG provides informational resources to facilitate the consistency of the proposed project with the adopted 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS or Connect SoCal). For the purpose of determining consistency with CEQA, lead agencies such as local jurisdictions have the sole discretion in determining a local project's consistency with Connect SoCal.

**CONNECT SOCIAL GOALS**

The SCAG Regional Council fully adopted [Connect SoCal](#) in September 2020. Connect SoCal, also known as the 2020 – 2045 RTP/SCS, builds upon and expands land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern. The long-range visioning plan balances future mobility and housing needs with goals for the environment, the regional economy, social equity and environmental justice, and public health. The goals included in Connect SoCal may be pertinent to the proposed project. These goals are meant to provide guidance for considering the proposed project. Among the relevant goals of Connect SoCal are the following:

| <b>SCAG CONNECT SOCIAL GOALS</b> |  |
|----------------------------------|--|
| Goal #1:                         | <i>Encourage regional economic prosperity and global competitiveness</i>   |
| Goal #2:                         | <i>Improve mobility, accessibility, reliability and travel safety for people and goods</i>                           |
| Goal #3:                         | <i>Enhance the preservation, security, and resilience of the regional transportation system</i>                      |
| Goal #4:                         | <i>Increase person and goods movement and travel choices within the transportation system</i>                        |
| Goal #5:                         | <i>Reduce greenhouse gas emissions and improve air quality</i>   |
| Goal #6:                         | <i>Support healthy and equitable communities</i>   |
| Goal #7:                         | <i>Adapt to a changing climate and support an integrated regional development pattern and transportation network</i> |
| Goal #8:                         | <i>Leverage new transportation technologies and data-driven solutions that result in more efficient travel</i>       |
| Goal #9:                         | <i>Encourage development of diverse housing types in areas that are supported by multiple transportation options</i> |
| Goal #10:                        | <i>Promote conservation of natural and agricultural lands and restoration of habitats</i>                            |

For ease of review, we encourage the use of a side-by-side comparison of SCAG goals with discussions of the consistency, non-consistency or non-applicability of the goals and supportive analysis in a table format. Suggested format is as follows:

| SCAG CONNECT SOCIAL GOALS |  |   |
|---------------------------|--|---|
|                           | Goal   | Analysis  |
| Goal #1:                  | <i>Encourage regional economic prosperity and global competitiveness</i>                   | <i>Consistent: Statement as to why;<br/>Not-Consistent: Statement as to why;<br/>Or<br/>Not Applicable: Statement as to why;<br/>DEIR page number reference</i> |
| Goal #2:                  | <i>Improve mobility, accessibility, reliability and travel safety for people and goods</i> | <i>Consistent: Statement as to why;<br/>Not-Consistent: Statement as to why;<br/>Or<br/>Not Applicable: Statement as to why;<br/>DEIR page number reference</i> |
| etc.                      |  | etc.  |

**Connect SoCal Strategies**

To achieve the goals of Connect SoCal, a wide range of land use and transportation strategies are included in the accompanying twenty (20) technical reports. To view Connect SoCal and the accompanying technical reports, please visit the [Connect SoCal webpage](#). Connect SoCal builds upon the progress from previous RTP/SCS cycles and continues to focus on integrated, coordinated, and balanced planning for land use and transportation that helps the SCAG region strive towards a more sustainable region, while meeting statutory requirements pertinent to RTP/SCSs. These strategies within the regional context are provided as guidance for lead agencies such as local jurisdictions when the proposed project is under consideration.

**DEMOGRAPHICS AND GROWTH FORECASTS**

A key, formative step in projecting future population, households, and employment through 2045 for Connect SoCal was the generation of a forecast of regional and county level growth in collaboration with expert demographers and economists on Southern California. From there, jurisdictional level forecasts were ground-truthed by subregions and local agencies, which helped SCAG identify opportunities and barriers to future development. This forecast helps the region understand, in a very general sense, where we are expected to grow, and allows SCAG to focus attention on areas that are experiencing change and may have increased transportation needs. After a year-long engagement effort with all 197 jurisdictions one-on-one, 82 percent of SCAG’s 197 jurisdictions provided feedback on the forecast of future growth for Connect SoCal. SCAG also sought feedback on potential sustainable growth strategies from a broad range of stakeholder groups – including local jurisdictions, county transportation commissions, other partner agencies, industry groups, community-based organizations, and the general public. Connect SoCal utilizes a bottom-up approach in that total projected growth for each jurisdiction reflects feedback received from jurisdiction staff, including city managers, community development/planning directors, and local staff. Growth at the neighborhood level (i.e., transportation analysis zone (TAZ) reflects entitled projects and adheres to current general and specific plan maximum densities as conveyed by jurisdictions (except in cases where entitled projects and development agreements exceed these capacities as calculated by SCAG). Neighborhood level growth projections also feature strategies that help to reduce greenhouse gas emissions (GHG) from automobiles and light trucks to achieve Southern California’s GHG reduction target, approved by the California Air Resources Board (CARB) in accordance with state planning law. Connect SoCal’s Forecasted Development Pattern is utilized for long range modeling purposes and does not supersede actions taken by elected bodies on future development, including entitlements and development agreements. SCAG does not have the authority to implement the plan -- neither through decisions about what type of development is built where, nor what transportation projects are ultimately built, as Connect SoCal is adopted at the jurisdictional level. Achieving a sustained regional outcome depends upon informed and intentional local action. To access jurisdictional level growth estimates and forecasts for years 2016

and 2045, please refer to the [Connect SoCal Demographics and Growth Forecast Technical Report](#). The growth forecasts for the region and applicable jurisdictions are below.

|            | Adopted SCAG Region Wide Forecasts |            |            |            | Adopted City of Riverside Forecasts |           |           |           |
|------------|------------------------------------|------------|------------|------------|-------------------------------------|-----------|-----------|-----------|
|            | Year 2020                          | Year 2030  | Year 2035  | Year 2045  | Year 2020                           | Year 2030 | Year 2035 | Year 2045 |
| Population | 19,517,731                         | 20,821,171 | 21,443,006 | 22,503,899 | 340,078                             | 362,815   | 373,987   | 395,798   |
| Households | 6,333,458                          | 6,902,821  | 7,170,110  | 7,633,451  | 98,860                              | 105,649   | 108,717   | 115,057   |
| Employment | 8,695,427                          | 9,303,627  | 9,566,384  | 10,048,822 | 157,235                             | 175,821   | 182,003   | 188,653   |

**MITIGATION MEASURES**

SCAG staff recommends that you review the [Final Program Environmental Impact Report](#) (Final PEIR) for Connect SoCal for guidance, as appropriate. SCAG’s Regional Council certified the PEIR and adopted the associated Findings of Fact and a Statement of Overriding Considerations (FOF/SOC) and Mitigation Monitoring and Reporting Program (MMRP) on May 7, 2020 and also adopted a PEIR Addendum and amended the MMRP on September 3, 2020 (please see the [PEIR webpage](#) and scroll to the bottom of the page for the PEIR Addendum). The PEIR includes a list of project-level performance standards-based mitigation measures that may be considered for adoption and implementation by lead, responsible, or trustee agencies in the region, as applicable and feasible. Project-level mitigation measures are within responsibility, authority, and/or jurisdiction of project-implementing agency or other public agency serving as lead agency under CEQA in subsequent project- and site- specific design, CEQA review, and decision-making processes, to meet the performance standards for each of the CEQA resource categories.

**REGIONAL HOUSING NEEDS ALLOCATION**

On March 4, 2021 SCAG’s Regional Council adopted the [6<sup>th</sup> cycle Final Regional Housing Needs Assessment \(RHNA\) Allocation Plan](#) which covers the planning period October 2021 through October 2029. The 6<sup>th</sup> cycle Final RHNA allocation for the applicable jurisdiction is below.

| SCAG 6 <sup>th</sup> Cycle Final RHNA Allocation for City of Riverside |        |
|--|--------|
| Very low income  | 4,861  |
| Low income   | 3,064  |
| Moderate income  | 3,139  |
| Above moderate income  | 7,394  |
| Total RHNA Allocation  | 18,458 |

Sixth cycle housing elements are due to the California Department of Housing and Community Development (HCD) by October 15, 2021. SCAG encourages jurisdictions to prepare the draft housing element in advance of the due date to ensure adequate time to address HCD comments and adopt a final housing element. Jurisdictions that do not have a compliant housing element may be ineligible for certain State funding and grant opportunities and may be at risk for legal action from stakeholders or HCD.



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • [www.aqmd.gov](http://www.aqmd.gov)

SENT VIA E-MAIL:

May 4, 2021

[mtaylor@riversideca.gov](mailto:mtaylor@riversideca.gov)

Matthew Taylor, Senior Planner

City of Riverside, Community and Economic Development Department

3900 Main Street, Third Floor

Riverside, California 92522

## **Notice of Preparation of a Draft Environmental Impact Report for the Riverside Housing and Public Safety Element Updates and Environmental Justice Policies (Proposed Project)**

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. Our comments are recommendations on the analysis of potential air quality impacts from the Proposed Project that should be included in the Draft Environmental Impact Report (EIR). Please send a copy of the Draft EIR upon its completion and public release directly to South Coast AQMD as copies of the Draft EIR submitted to the State Clearinghouse are not forwarded. **In addition, please send all appendices and technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all emission calculation spreadsheets, and air quality modeling and health risk assessment input and output files (not PDF files). Any delays in providing all supporting documentation for our review will require additional review time beyond the end of the comment period.**

### **CEQA Air Quality Analysis**

Staff recommends that the Lead Agency use South Coast AQMD's CEQA Air Quality Handbook and website<sup>1</sup> as guidance when preparing the air quality and greenhouse gas analyses. It is also recommended that the Lead Agency use the CalEEMod<sup>2</sup> land use emissions software, which can estimate pollutant emissions from typical land use development and is the only software model maintained by the California Air Pollution Control Officers Association.

South Coast AQMD has developed both regional and localized significance thresholds. South Coast AQMD staff recommends that the Lead Agency quantify criteria pollutant emissions and compare the emissions to South Coast AQMD's CEQA regional pollutant emissions significance thresholds<sup>3</sup> and localized significance thresholds (LSTs)<sup>4</sup> to determine the Proposed Project's air quality impacts. The localized analysis can be conducted by either using the LST screening tables or performing dispersion modeling.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of

---

<sup>1</sup> South Coast AQMD's CEQA Handbook and other resources for preparing air quality analyses can be found at: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook>.

<sup>2</sup> CalEEMod is available free of charge at: [www.caleemod.com](http://www.caleemod.com).

<sup>3</sup> South Coast AQMD's CEQA regional pollutant emissions significance thresholds can be found at: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>.

<sup>4</sup> South Coast AQMD's guidance for performing a localized air quality analysis can be found at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>.

heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips, and hauling trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers and air pollution control devices), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis. Furthermore, emissions from the overlapping construction and operational activities should be combined and compared to South Coast AQMD's regional air quality CEQA *operational* thresholds to determine the level of significance.

If the Proposed Project generates diesel emissions from long-term construction or attracts diesel-fueled vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment<sup>5</sup>.

The California Air Resources Board's (CARB) *Air Quality and Land Use Handbook: A Community Health Perspective*<sup>6</sup> is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process with additional guidance on strategies to reduce air pollution exposure near high-volume roadways available in CARB's technical advisory<sup>7</sup>.

The South Coast AQMD's *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning*<sup>8</sup> includes suggested policies that local governments can use in their General Plans or through local planning to prevent or reduce potential air pollution impacts and protect public health. It is recommended that the Lead Agency review this Guidance Document as a tool when making local planning and land use decisions.

### **Mitigation Measures**

In the event that the Proposed Project results in significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize these impacts. Any impacts resulting from mitigation measures must also be analyzed. Several resources to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project include South Coast AQMD's CEQA Air Quality Handbook<sup>1</sup>, South Coast AQMD's Mitigation Monitoring and Reporting Plan for the 2016 Air Quality Management Plan<sup>9</sup>, and Southern California Association of Government's Mitigation Monitoring and Reporting Plan for the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy<sup>10</sup>.

South Coast AQMD staff is available to work with the Lead Agency to ensure that air quality, greenhouse gas, and health risk impacts from the Proposed Project are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at [lsun@aqmd.gov](mailto:lsun@aqmd.gov).

---

<sup>5</sup> South Coast AQMD's guidance for performing a mobile source health risk assessment can be found at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis>.

<sup>6</sup> CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* can be found at: <http://www.arb.ca.gov/ch/handbook.pdf>.

<sup>7</sup> CARB's technical advisory can be found at: <https://www.arb.ca.gov/ch/landuse.htm>.

<sup>8</sup> South Coast AQMD. 2005. *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning*. Available at: <http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf>.

<sup>9</sup> South Coast AQMD's 2016 Air Quality Management Plan can be found at: <http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2017/2017-mar3-035.pdf> (starting on page 86).

<sup>10</sup> Southern California Association of Governments' 2020-2045 RTP/SCS can be found at: [https://www.connectsocial.org/Documents/PEIR/certified/Exhibit-A\\_ConnectSoCal\\_PEIR.pdf](https://www.connectsocial.org/Documents/PEIR/certified/Exhibit-A_ConnectSoCal_PEIR.pdf).

Sincerely,

*Lijin Sun*

Lijin Sun, J.D.

Program Supervisor, CEQA IGR

Planning, Rule Development & Area Sources

LS  
RVC210406-05  
Control Number



Appendix B  
**Proposed Housing Element, Public Safety Element, and  
Environmental Justice Preliminary Policies**

---



# Appendix B

## Proposed Housing Element, Public Safety Element, and Environmental Justice Preliminary Policies

---

These policies to the Housing Element, Public Safety Element, and environmental justice are preliminary and will be finalized upon certification of the Housing Element, Public Safety Element, and Environmental Justice Policies Project Environmental Impact Report.

### Housing Element<sup>1</sup>

**Guiding Principle:** Provide a diverse, abundant, adaptable, and equitably distributed mix of rental and ownership housing that is safe, healthy, and affordable for people of all income levels, races, and ages and meets the needs of current and future Riverside residents.

#### Affordable Housing

- **Policy HE-1.0:** Affordable Housing: Preserve and increase affordable housing options, including subsidized and non-subsidized affordable units for lower-income<sup>2</sup> and environmental justice communities,<sup>3</sup> special needs, and under-served populations.
  - **Action HE-1.1:** Prepare an Inclusionary Housing Program<sup>4</sup> to facilitate the integration of affordable housing units throughout the City's housing supply.
  - **Action HE-1.2:** Update the City's Density Bonus Ordinance to encourage and incentivize development of affordable and senior housing, both for sale and for rent, consistent with state Density Bonus legislation.

---

<sup>1</sup> Housing Element. All cities in California are required to have a Housing Element as part of their adopted General Plan. The Housing Element is the city's guide for meeting the housing needs of all segments of Riverside's population and provides a plan and a strategy for promoting safe, decent, and affordable housing. Per state law, the specific purposes of the Housing Element are to: assess both current and future housing needs and constraints; and establish housing goals, policies and programs that provide a strategy for meeting the city's housing needs.

<sup>2</sup> Lower income. A lower-income household is a household that earns less than 80 percent of the Area Median Income (AMI) per year, and is inclusive of the terms *low income* (less than 80 percent of AMI), *very low income* (less than 50% of AMI) and *extremely low income* (less than 30% of AMI). The 2020 AMI for Riverside County is approximately \$75,000 per year for a family of four. [Source Link](#)

<sup>3</sup> Environmental justice community. Per Senate Bill 1000, an environmental justice community is defined as "An area identified by the California Environmental Protection Agency (CalEPA) pursuant to Section 39711 of the Health and Safety Code [i.e., a census tract that scores within the top 25% of all tracts for pollution burden, socioeconomic characteristics and underlying health status as measured by the CalEnviroScreen tool] or an area that is a low-income area that is disproportionately affected by environmental pollution and other hazards that can lead to negative health effects, exposure, or environmental degradation." Environmental justice community is interchangeable with *disadvantaged community* (DAC); the first term is used throughout this document for consistency. [Source Link](#)

<sup>4</sup> Inclusionary Housing Program. An *inclusionary housing program* is a local policy that seek to capture a portion of increasing real estate values related to new development to create additional opportunities and funding sources for affordable housing. Inclusionary Housing Programs can incorporate several mechanisms including requiring certain portions of new development be designated affordable, establishment of an affordable housing fee, creation of incentives for projects that include affordable housing, and more. [Source Link](#)

- **Action HE-1.3:** Facilitate the relationship between developers and the County of Riverside Housing Authority project-based Section 8 voucher programs and other resources to further develop affordable housing in the City.
- **Action HE-1.4:** Develop a streamlined process to assist homeowners and rental property owners to rehabilitate residential properties.
- **Action HE-1.5:** Develop and implement a plan to seek additional funding for the City's Housing Rehabilitation Program for lower-income owners to encourage further homeowner investment and ensure housing stability.
- **Action HE-1.6:** Facilitate the relationship between affordable housing providers, market-rate housing providers and community-based organizations to build a network and partnerships that will help increase affordable housing in the City including sites identified in the City's Housing First Plan.
- **Action HE-1.7:** On a yearly basis, provide the City Council with an update on the on-going mobile home park rent stabilization program.
- **Action HE-1.8:** Monitor the Riverside County foreclosure prevention services and, if resumed, support the Mortgage Credit Certificate.
- **Action HE-1.9:** Develop a program to monitor and preserve at-risk affordable rental units to minimize conversion to market rate.
- **Action HE-1.10:** Monitor funding sources to support extremely low-income housing and allocate funds and promote programs to developers.

## Homelessness

- **Policy HE-2.0:** Homelessness: Expand housing and services that effectively addresses the needs of the City's homeless population.
  - **Action HE-2.1:** Develop a permanent supportive service program for non-profit providers that continues and supports the rapid rehousing program, provides shelter and offers support services to the homeless consistent with the Housing First Plan.
  - **Action HE-2.2:** Continue to partner with the Riverside County Continuum of Care in preparing and implementing recommendations and best practices to end cycles of homelessness; providing emergency shelter,<sup>5</sup> transitional and permanent supportive housing,<sup>6</sup> and humane and adaptable supportive services and continue to integrate supportive housing in affordable housing developments.

---

<sup>5</sup> Emergency shelter. *Emergency shelters* are defined in the California Government Code as short-term housing accommodations with minimal supportive services for homeless persons that is limited to occupancy of six months or less by a homeless person. No individual or household may be denied emergency shelter because of an inability to pay. [Source Link](#)

<sup>6</sup> Permanent supportive housing. *Permanent supportive housing* is defined in the California Government Code as housing with no limit on length of stay, that is occupied by the target population, and that is linked to onsite or offsite service that assists the supportive housing resident in retaining the housing, improving his or her health status, and maximizing his or her ability to live and, when possible, work in the community. [Source Link](#)

- **Action HE-2.3:** Prepare a Zoning Code update to further facilitate development of emergency shelters, transitional housing,<sup>7</sup> permanent supportive housing, residential care facilities, and community care facilities in appropriately zoned areas distributed throughout the City, allow low-barrier navigation centers<sup>8</sup> as a by-right use in mixed-use and non-residential zones, and update the provisions for emergency shelters to comply with SB-2.
- **Action HE-2.4:** Continue to collaborate with surrounding cities, counties, and other agencies to develop an ongoing multi-agency dialogue and agreement on providing emergency shelters, permanent supportive housing and affordable housing and services.
- **Action HE-2.5:** Develop an outreach program, together with shelter and service providers, that includes homeless and lived experience/formerly homeless participants to provide information on available programs to all that need services.

## Fair Housing

- **Policy HE-3.0:** Fair Housing: Promote safe, healthy, and attainable housing opportunities for all people regardless of their special characteristics<sup>9</sup> as protected under State and Federal fair housing laws.
  - **Action HE-3.1:** Adopt a City-wide policy that prohibits discrimination in the sale or rental of housing regarding characteristics protected under State and Federal fair housing laws.
  - **Action HE-3.2:** Adopt a City-wide policy that supports continued collaboration and participation with fair housing service provider(s) that increases fair housing opportunities across the City.
  - **Action HE-3.3:** Adopt a City-wide policy that encourages the development or adaptation of residential units and communities accessible to people with physical disabilities.
  - **Action HE-3.4:** Adopt a City-wide policy prioritizing wastewater and water services for affordable housing in the event of service rationing.
  - **Action HE-3.4:** Study the need for a City-wide Universal Design and Visitability<sup>10</sup> Policy.

---

<sup>7</sup> Transitional housing. *Transitional housing* is defined in the California Government Code as buildings configured as rental housing developments, but operated under program requirements that require the termination of assistance and recirculating of the assisted unit to another eligible program recipient at a predetermined future point in time that shall be no less than six months from the beginning of the assistance. [Source Link](#)

<sup>8</sup> Low-barrier navigation center. A *low barrier navigation center* is defined in the California Government Code as a Housing First, low-barrier, service-enriched shelter focused on moving people into permanent housing that provides temporary living facilities while case managers connect individuals experiencing homelessness to income, public benefits, health services, shelter, and housing, entry into which is not limited by things like presence of partners (if not a population-specific facility, such as a women's shelter), pets, storage of personal possessions or the need for privacy. [Source Link](#)

<sup>9</sup> Special characteristics. In this document, *special characteristics* refers to the groups are protected from housing discrimination by State law, Federal law or both and includes, but is not limited to, race, color, ancestry, national origin, citizenship, immigration status, language, age, religion, mental or physical disability, sex, gender, sexual orientation, gender identity, gender expression, genetic information, marital status, familial status, source of income, or military or veteran status. [Source Link](#)

<sup>10</sup> Universal design and visitability. *Universal design and visitability* are closely related strategies aimed at improving the safety and utility of housing for all people, including older adults and people with disabilities. *Universal design* is an approach to designing products and environments to be appropriate for all people, including

- **Action HE-3.5:** Develop an outreach program for homeowners and renters regarding their rights, financing options, available assistance, and protection in purchasing, renting, or modifying a housing unit.
- **Action HE-3.7:** Prepare a Zoning Code update to address the requirements of the Employee Housing Act.

## Thriving Neighborhoods

- **Policy HE-4.0:** Thriving Neighborhoods: Facilitate and encourage a variety of new housing types, including both single- and multi-family and missing middle housing.<sup>11</sup> and the necessary public amenities to support a sense of community that results in equitable and sustainable<sup>12</sup> neighborhoods.
  - **Action HE-4.1:** Prepare urban design standards that promote the integration of private development and public space and create safe, healthy, complete neighborhoods with quality housing development, services and commercial uses, schools, transit, parks, childcare and other needs.
  - **Action HE-4.2:** Prepare a Zoning Code update that encourages and incentivizes building the maximum number of homes allowed by the Zoning to create a critical mass of residents to support local businesses, community services and public transit.
  - **Action HE-4.3:** Continue the Small Sparks neighborhood and Neighbor Fest! Programs.

## Regulations

- **Policy HE-5.0:** Regulations: Reduce and remove government barriers, where feasible and legally permissible, to reduce the cost of housing production and facilitate both ownership and rental opportunities for all residents.
  - **Action HE-5.1:** Develop an Accessory Dwelling Unit (ADU)<sup>13</sup> program that includes pre-approved construction plans, streamlined permitting and educational materials to facilitate ADU development.
  - **Action HE-5.2:** Prepare a Zoning Code update to streamline the approval process and simplify development regulations for new housing development.

---

those with physical, cognitive, or sensory impairments. *Visitability* is based on the principle that all new homes should include a few basic features that make them accessible to people regardless of their physical abilities. [Source Link](#)

<sup>11</sup> Missing middle housing. *Missing middle housing* refers to a range of house-scale buildings with multiple units—compatible in scale and form with detached single-family homes—located in a walkable neighborhood. Missing middle housing types fall somewhere between single-family houses and large apartment buildings or complexes and are referred to as “missing” because, although once very common, are often not legal to build under today’s development regulations. [Source Link](#)

<sup>12</sup> Sustainable. In the City of Riverside, *sustainability* refers to three key areas: economic prosperity, environmental stewardship, and social responsibility and embodies the City’s commitment to meeting the needs of the present without compromising the needs of the future while ensuring the City’s capacity to persevere, adapt and grow during good and difficult times.

<sup>13</sup> Accessory Dwelling Unit (ADU). An *ADU*, sometimes called a Second Dwelling, Granny Flat, or Mother-in-Law’s Quarters, is a completely self-contained housing unit located on the same lot as another home, called the primary dwelling. ADUs are considered accessory because they are typically smaller than the primary dwelling and are not the main use on the lot.

- **Action HE-5.3:** Prepare an Adaptive Reuse<sup>14</sup> Ordinance to encourage redevelopment of underutilized commercial and industrial properties and allow by-right<sup>15</sup> residential development in exchange for providing a certain number of affordable units in non-residential zones.
- **Action HE-5.4:** Prepare a Zoning Code update to further encourage mixed-use development, including a potential density transfer program allowing densities on properties that are not built to their maximum density to be used on other properties, with transit access that reduces automobile trips, vehicle miles traveled.<sup>16</sup> and associated energy consumption.
- **Action HE-5.5:** Develop regulations that will help reduce housing costs by promoting sustainable and resilient<sup>17</sup> design and construction practices; promoting technological improvements such as increased energy efficiency, net-zero construction,<sup>18</sup> solar, electric transportation; and encouraging reduced water/energy consumption and reduced waste generation including available incentives through Riverside Public Utilities.
- **Action HE-5.6:** Update the City's Density Bonus Ordinance and standards to encourage and incentivize development of affordable and senior housing, both for sale and for rent, consistent with state Density Bonus legislation and continue implementing fee reductions that incentivize senior housing production.

## Monitoring/Engagement

- **Policy HE-6.0:** Monitoring/Engagement: Ensure regular monitoring and reporting, including outreach to the public, on the status of housing in the City of Riverside.
  - **Action HE-6.1:** Develop a monitoring mechanism to ensure no net loss of housing occurs during the Housing Element Cycle and adjust zoning as needed.
  - **Action HE-6.2:** Develop an online dashboard that includes a monitoring mechanism, based on public outreach, that monitors no net loss, ADU production, potential sites, production of affordable and market rate housing, and preserved housing supply.
  - **Action HE-6.3:** Develop and maintain an up-to-date residential sites inventory and provide to interested developers with information on available housing development opportunities and incentives.

---

<sup>14</sup> Adaptive Reuse. *Adaptive reuse* refers to the conversion of an existing building or space that was built for one purpose to another purpose or use, such as the conversion of a commercial building to residences. Adaptive reuse projects may require special consideration or construction methods and regulations for structures converted to purposes other than that for which they were originally built.

<sup>15</sup> By-right development. *By-right development* is development that is approved based on the project meeting established, objective criteria.

<sup>16</sup> Vehicle miles traveled. *Vehicle miles traveled* (VMT) is a method of measuring the effects of development on the transportation system by estimating the amount driving, measured in miles driven per vehicle, that will be generated by cars and trucks associated with the development. [Source Link.](#)

<sup>17</sup> Resilience. Resilience refers to the ability of structures, systems, organizations, and other entities to anticipate, absorb, respond to, and recover from disturbance. Resilience often refers to climate resilience, which is the ability to anticipate, prepare for, and respond to hazardous events, trends, or disturbances related to changing climate conditions. [Source Link.](#)

<sup>18</sup> Net-zero construction. *Net-zero construction*, also known as zero-energy or net-zero energy building, refers to energy-efficient buildings that generate as much or more energy as they consume on an annual basis. [Source Link.](#)

- **Action HE-6.4:** Complete an evaluation and report of housing development every 5 years to ensure that adequate services and facilities, including water, wastewater, and neighborhood infrastructure are available.
- **Action HE-6.5:** As part of the Citywide Community Engagement Policy, prepare requirements for outreach and engagement that private developers will undertake for all new housing projects.

## Development Process

- **Policy HE-EJ-7.0:** Development Process: facilitate a development process that promotes design and rehabilitation of housing that is responsive to the needs and desires of the residents of environmental justice communities.
  - **Action HE-EJ-7.1:** Conduct an inventory of existing housing within environmental justice communities to determine the adequacy of existing housing.
  - **Action HE-EJ-7.2:** On properties where poor-quality housing conditions are identified in environmental justice communities, facilitate the permitting process for property owners and residents to remedy and retrofit unhealthy and unsafe conditions in a timely fashion.
  - **Action HE-EJ-7.3:** Through the approval process, identify potential California Environmental Quality Act (CEQA) streamlining opportunities including, but not limited to, CEQA exemptions, tiering from prior CEQA documents, and by-right approvals to expedite approvals of proposed affordable and supportive housing projects.
  - **Action HE-EJ 7.4:** Publicize the undeveloped and underutilized developed sites land inventory on the City's website.
  - **Action HE-EJ-7.5:** Prepare an infill development<sup>19</sup> ordinance and development regulations, including the potential to use pre-approved construction plans, to facilitate housing on smaller lots that are close to needed services and amenities. Continue to allow lot consolidation without discretionary review and with fee reductions.

## Access to Food

- **Policy HE-EJ-8.0:** Access to Food. Provide opportunities to access fresh, healthy, and affordable food from food sources that are accessible to neighborhoods and within a quarter mile of public transit.
  - **Action HE-EJ-8.1:** Streamline development approvals for opening full-service grocery stores.
  - **Action HE-EJ-8.2:** Work with retail businesses in environmental justice communities such as local convenience stores and farmers' markets to increase the availability of fresh produce.
  - **Action HE-EJ-8.3:** Use the Riverside Food Systems Alliance and similar organizations to expand civic engagement, particularly with community-based organizations and local

---

<sup>19</sup> Infill development. *Infill development* refers to the addition of housing, businesses, or other new uses on existing sites within developed, urbanized areas, as opposed to outlying or undeveloped areas, where the efficient use of existing, in-place infrastructure and services can be realized.

grocers, to better understand the barriers to healthy food access in environmental justice communities.

- **Action HE-EJ-8.4:** Develop a Food Access Assessment program to assess food security within environmental justice communities, identify strategies to ensure the equitable distribution and accessibility of healthy foods such as identifying and pursuing opportunities to locate fresh produce providers near or within existing neighborhoods.
- **Action HE-EJ-8.5:** Facilitate transformation of vacant lots in within environmental justice communities into community garden sites.
- **Action HE-EJ 8.6:** Streamline approvals and promote the establishment of farmers' in areas with poor access to healthy food options.

## Public Safety Element

**Guiding Principle:** Comprehensively address the public safety needs and concerns of residents, businesses, institutions, and visitors in a proactive and coordinated way to ensure protection from foreseeable natural and human-caused hazards.

### Natural Hazards

- **Policy PS-1-Natural Hazards:** Reduce the risk to the community from hazards related to geologic conditions, seismic activity, flooding, drought, and wildland fires.

### Geologic and Seismic Hazards

- **Action PS-1.1-1:** (Seismic Hazards) Participate in federal, state, and local earthquake preparedness programs to ensure current best practices and resources are in place that support seismic mitigation and disaster response efforts.
- **Action PS-1.1-2:** (Seismic Hazards) Establish an educational outreach and training program related to earthquake preparedness, resilience and recovery that facilitates training and support for business owners, tenants and residents.
- **Action PS-1.1-3:**(Seismic Hazards) Minimize the potential loss of life, damage to structures, and economic impacts of disaster recovery by implementing a Seismic Safety Program that addresses each risk.
- **Action PS-1.1.4:** (Seismic Hazards) In support of the Seismic Safety Program, conduct a citywide seismic survey of existing vulnerable building types to assess each risk, minimize loss of life, implement mitigation measures, and facilitate faster disaster response and recovery efforts as they relate to large earthquake events.

### Flood Hazards

- **Action PS-1.2-1:** (Flood Hazards) Inventory emergency and critical facilities located in the 1 percent annual chance of flood zones, establish procedures to maintain structural and operational integrity of public facilities during flood events, and identify emergency evacuation routes for areas that could be affected by flooding or dam failure.

- **Action PS-1.2-2:** (Flood Hazards) Coordinate with Riverside County Flood Control and Water Conservation District, for the responsible agency for maintenance and monitoring of regional flood control facilities, and the City Fire Department to evaluate the effectiveness of existing flood control systems and improve these systems as necessary to meet capacity demands.
- **Action PS-1.2-3:** (Flood Hazards) Permit development in a floodplain only if there is minimal risk to lives and property and the project is adequately designed so that all structures are capable of withstanding a 1 percent annual chance of flood (100-year flood) or greater.
- **Action PS-1.2-4:** (Flood Hazards) During project review, require drainage studies (as needed) by a qualified engineer to certify that new development will be protected and not create new downstream flood hazards.

## Fire Hazards

- **Action PS-1.3-1:** (Fire Hazards) Update the Riverside Fire Department's Strategic Plan, in accordance with the applicable review schedule, and continue to identify and implement strategies that maintain and improve the City's Class 1 ISO rating.
- **Action PS-1.3-2:** (Fire Hazards) Develop educational materials for community members to regularly update them on fire safety, hazardous materials safety, and fire prevention.
- **Action PS-1.3-3:** (Fire Hazards) Prepare a City-owned Properties Wildfire High-hazard Plan that: (1) identifies locations for new essential facilities outside of high fire-hazard areas; (2) implements construction or other ways to minimize hazards for essential facilities in high fire-hazard areas; and (3) identifies fire breaks for all City-owned properties to reduce fire hazards.

## Drought Conditions

- **Action PS-1.4-1:** (Drought Conditions) Update the Urban Water Management Plan and Drought Contingency Plan as required by state law and regulations, including during, and in anticipation of, upcoming drought conditions.

## Human-Caused Hazards

### Hazardous Materials

- **Policy PS-2-Hazardous Materials:** Minimize the risk of potential hazards associated with management and transport of hazardous materials.
  - **Action PS-2.1-1:** (Hazardous Materials) Develop a Hazardous Materials Plan to provide a framework to review industry/business uses that includes safety protocols, enforcement mechanisms, inspection requirements, and review/update procedures.
  - **Action PS-2.1-2:** (Hazardous Materials Transport) Establish designated safe transport routes for transport of hazardous materials to reduce the risks associated with ground transport of hazardous materials.
  - **Action PS-2.1-3:** (Hazardous Materials Transport/Emergency Preparedness) Establish a training program on rail-related hazard emergency preparedness for stakeholders and City

Staff to ensure emergency operations and mitigation measures are clear and updated when changes occur.

## Transportation

- **Policy PS-3–Transportation:** Minimize the risk of potential hazards associated with air and ground transportation.

### Air Transportation

- **Action PS-3.1-1:** (Aircraft Hazards) Participate in the Riverside County Airport Land Use Commission MARB Joint Land Use Study to ensure City issues and concerns are incorporated into the update of the Land Use Compatibility Plan.

### Rail Transportation

- **Action PS-3.2-1:** (Railroad Hazards) Continue implementation of Quiet Zone improvements and grade separations at rail crossings within the City to improve safety for pedestrians, bicyclists and motorists.

### Pedestrian and Bicyclist Safety

- **Action PS-3.3-1:** (Pedestrian and Bicyclist Safety) Implement the City's PACT (Pedestrian Target Safeguarding Plan, Active Transportation Plan, Complete Streets Ordinance and Trail Master Plan) to: improve safety and walkability; provide street amenities such as trees, lighting, furniture; prioritize pedestrians and bicyclists; and implement traffic calming and safety improvements such as lighted crosswalks.
- **Action PS-3.3-2:** (Pedestrian and Bicyclist Safety) Implement phased infrastructure improvements that enhance pedestrian and bicycle safety as identified in the City's Capital Investment Program.
- **Action PS-3.3-3:** (Pedestrian and Bicyclist Safety) Implement the Citywide Community Engagement Policy Toolkit as part of any pedestrian and bicyclist safety project to promote safety for any City-initiated project.

### Vehicle Safety

- **Action PS-3.4-1:** (Vehicle Safety) Develop a Local Roadway Safety Plan to identify intersections and road segments with the highest collision rates and prioritize design safety measures to reduce incidences at these locations.

## Emergency Services

- **Policy PS-4–Emergency Services:** Provide responsive police, fire, and emergency services to all residents and businesses in Riverside.

### Police Services

- **Action PS-4.1-1:** (Police Services) Update the Riverside Police Department Strategic Plan, in accordance with applicable review schedule, to maintain the minimum Riverside Police

Department response times of 9 minutes on all Priority One calls and 12 minutes on all Priority Two calls.<sup>20</sup>

- **Action PS-4.1-2:** (Police Services) Collaborate with the Riverside County Sheriff to provide coordinated law enforcement services within the City's Sphere of Influence areas.
- **Action PS-4.1-3:** (Police Services) Coordinate police services with private, college and university campus police within Riverside.
- **Action PS-4.1-4:** (Police Services) Identify a location for, plan for, and develop a new modernized police headquarters facility in the Downtown area.
- **Action PS-4.1-5:** (Public Safety) Engage residents and apartment managers to remain involved in the Crime-Free Multi-Housing Program to reduce crime in apartment communities.

## Emergency Preparedness

- **Action PS-4.2.1:** (Emergency Preparedness) As part of the regular updates of the Riverside County Hazard Mitigation Plan and the updates of emergency operating procedures, assess and identify actions to address potential natural and human caused hazards as they affect infrastructure within the City.
- **Action PS-4.2-2:** (Emergency Preparedness) Conduct emergency operations exercises, with Riverside Police Department, Riverside Fire Department, and other City Departments, to identify deficiencies or practices requiring modification, and prepare periodic updates based on outcomes.
- **Action PS-4.2-3:** (Emergency Preparedness) Conduct reviews of procedures and regularly inspect equipment to ensure both are ready to provide emergency disaster services after a disaster or emergency event.
- **Action PS-4.2-4:** (Emergency Preparedness) Provide educational materials for community members, both online and hard copy, with up-to-date information on emergency preparedness.
- **Action PS-4.2-5:** (Emergency Preparedness) Update the City's information data sharing infrastructure related to computer-aided dispatch.
- **Action PS-4.2-6:** (Emergency Response) Conduct periodic reviews and monitor participation in mutual aid and automatic aid agreements with other agencies to ensure resources keep pace with new development planned or proposed in Riverside and within the Riverside Local Agency Formation Commission's Sphere of Influence.

## Pandemic

- **Policy PS-5-Pandemic:** Provide responsive public health services to all residents of Riverside.
  - **Action PS-5.1-1:** (Pandemic Preparedness) Maintain and update the City's Recovery Framework Plan and Pandemic Plan.

---

<sup>20</sup> Priority One calls are defined in RPD procedures as related to an imminent threat to life; Priority Two calls are defined as related to an imminent threat to property.

- **Action PS-5.1-2:** (Pandemic Outreach) Provide education materials using various social media platforms and online communication for pandemic-related health updates and resources that will help remove barriers to health services.

## Homelessness

- **Policy PS-6–Homelessness:** Reduce homelessness in Riverside through coordinated implementation of and equitable accessibility to public safety, economic, and social programs.
  - **Action PS-6.1-1:** (Homelessness) Continue to address homelessness through the Public Safety and Engagement Team Program, including both housing solutions and mental health services, building on lessons learned and focusing on key areas of the City.
  - **Action PS-6.1-2:** (Homelessness) Coordinate with non-profit organizations to provide access to transitional housing, job training and placement, childcare, and health-promoting services to the homeless.
  - **Action PS-6.1-3:** (Homelessness) Coordinate with adjacent jurisdictions to implement the Multidisciplinary Regional Santa Ana River Bottom Encampment Response Plan to connect individuals with safer shelters outside of the Santa Ana River bottom.

## Climate Adaptation and Resiliency

- **Policy PS-7–Climate Adaptation and Resiliency:** Identify key potential impacts of climate change on City organizations, infrastructure, natural resources, and residents and develop adaptation pathways and resiliency pathways to address them.
  - **Action PS-7.1-1:** (Climate Adaptation) Complete a comprehensive vulnerability assessment to identify infrastructure, natural resources, and residents most at risk and identify what they need to adapt to a changing climate.
  - **Action PS-7.1-2:** (Climate Adaptation) Develop and implement a Climate Action Plan that includes climate adaptation strategies for environmental justice communities and communities disproportionately affected by climate change.
  - **Action PS-7.1-3:** (Resiliency) Incorporate climate resilience into all City department planning, practices, and procedures, following California Integrated Climate Adaptation and Resiliency Program guidance and other relevant guidance for incorporating resiliency into agency planning and operations.

## Environmental Justice Policies

The California Environmental Protection Agency defines environmental justice communities as:

1. Areas disproportionately affected by environmental pollution and other hazards that can lead to negative public health effects, exposure, or environmental degradation; or areas with concentrations of people that are of low income, high unemployment, low levels of homeownership, high rent burden, sensitive populations, or low levels of educational attainment<sup>21</sup>; or
2. Low-income areas that are disproportionately affected by environmental pollution and other hazards that can lead to negative health effects, exposure, or environmental degradation.<sup>22</sup>

As defined by the Environmental Protection Agency, environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of laws, regulations, and policies. The need to promote environmental justice has come from a history of disproportionate environmental harm to low-income and minority populations. This is, in part, because of compounded exposure to environmental hazards that can lead to adverse health outcomes and compromised quality of life.

California Government Code Section 65302 requires that jurisdictions with environmental justice communities incorporate environmental justice policies into their General Plans. This can include developing a separate environmental justice element or integrating related goals, policies, and objectives into the other elements of the General Plan. These updates are required when a jurisdiction adopts the General Plan or revises two or more elements concurrently and they must address ways that environmental justice communities are protected from environmental and health hazards. Opportunities for community members to engage in decision-making that affects environmental quality and health outcomes must also be identified.

Environmental justice communities within the City of Riverside have been identified using the California Communities Environmental Health Screening Tool (“CalEnviroScreen”), a data tool developed by CalEPA’s Office of Environmental Health Hazard Assessment (OEHHA) pursuant to Health and Safety Code Section 39711 and other statutory requirements. CalEnviroScreen provides statewide data that can be used to identify communities disproportionately affected by, or vulnerable to, environmental pollution and contaminants. The mapping tool contains 12 indicators related to pollution burden and 8 indicators that track population characteristics and other vulnerabilities.

To ensure compliance with California Senate Bill 1000, the City of Riverside General Plan 2025 includes environmental justice policies and actions that are integrated into the existing elements of the General Plan. The following environmental justice policies provide a framework for integrating environmental justice into the City’s Phase 2 General Plan update.

---

<sup>21</sup> California Code, Health and Safety Code – HSC Section 39711

<sup>22</sup> Gov. Code, § 65302, subdivision. (h)(4)(A).

## Land Use and Urban Design Element

- **Policy LU-EJ-1.0:** Housing Location: Ensure new housing developments adhere to local, state, and federal requirements to avoid disproportionate impacts on environmental justice communities.
  - **Action LU-EJ-1.1:** Update the General Plan to identify locations for new housing developments that are near transportation centers, commercial uses, parks and needed services, with a focus on improving access and affordability in high-opportunity areas.
  - **Action LU-EJ-1.2:** Develop design standards for development near noise or air pollution generators to minimize impacts on housing development.
- **Policy LU-EJ-2.0:** Public Engagement: Ensure the Citywide Community Engagement Policy provides community members with opportunities to participate in decisions that affect their environment and health.
  - **Action LU-EJ-2.1:** Implement the Citywide Community Engagement Policy that facilitates input from community members on key projects and ensures their concerns and aspirations inform an equitable decision-making process.
  - **Action LU-EJ-2.2:** Implement engagement, per the Citywide Community Engagement Process, for City-sponsored projects at convenient times for those directly affected and offer translation services when requested.

## Circulation and Community Mobility Element

- **Policy CCM-EJ-1.0:** Active Transportation: Promote physical activity and active transportation to address negative health outcomes, particularly among environmental justice communities.
  - **Action CCM-EJ-1.1:** Partner with community-based organizations to develop educational resources that: (1) encourage active living healthy eating, social and emotional health, and general wellness; and (2) raises awareness of health-related illnesses and promotes physical activity as a way of life.
  - **Action CCM-EJ-1.2:** Meet with school districts and youth organizations to identify ways to promote affordable or free programs that encourage better nutrition and increased physical activity.
- **Policy CCM-EJ-2.0:** Transportation Options: Encourage increased public transportation and multi-modal transportation choices as means of reducing roadway congestion and associated air pollution and promoting overall health.
  - **Action CCM-EJ-2.1:** Require Crime Prevention Through Environmental Design standards be incorporated into all City projects and private development to improve the pedestrian experience that could be related to sidewalks/trails, parks, street crossings, lighting, bicycle infrastructure, Americans with Disabilities Act (ADA) accessibility.
  - **Action CCM- EJ-2.2:** Encourage school districts to establish and maintain safe drop-off and pick-up zones and implement operational improvements to alleviate congestion.

## Education Element

- **Policy ED-EJ-1.0:** Education: Coordinate with public school districts, charter and private K-12 schools, and local universities and colleges to promote equity in educational facilities and opportunities for the entire community.
  - **Action ED-EJ-1.1:** Sponsor events at local schools, community centers, and libraries where underserved, low-income and minority students can gain exposure to early childhood education and opportunities in higher education and vocational training.
  - **Action ED-EJ-1.2:** Work with business leaders, faculty, and students at the various universities to develop and promote training programs to reinforce student career opportunities that align with the needs of the City (e.g., supervisory, teaching, healthcare professionals, technology-oriented).
  - **Action ED-EJ-1.3:** Coordinate and provide input to school districts as they site new or rehabilitate existing school facilities and encourage joint-use facilities, programming, and activities.
  - **Action ED-EJ-1.4:** Partner with school districts, universities, colleges to offer literacy and language education programs at City facilities in environmental justice communities for all generations.
  - **Action ED-EJ-1.5:** Implement the PACT by identifying and implementing pedestrian, bicycle, and transit network improvements in environmental justice communities that will benefit the Safe Routes to School programs for public school districts, charter, and private K-12 schools.

## Noise Element

- **Policy N-EJ-1.0:** Noise: With a particular focus on environmental justice communities, reduce noise pollution by enforcing noise reduction and control measures within and adjacent to residential neighborhoods.
  - **Action N-EJ-1.1:** Conduct outreach to help identify neighborhoods subject to excessive ambient noise pollution.
  - **Action N-EJ-1.2:** Identify and pursue funding sources to assist residents in environmental justice communities, including identification of possible resources, to achieve healthy noise levels.
  - **Action N-EJ-1.3:** Develop prescriptive sound transmission control standard construction plans designed to reduce interior noise levels according to the requirements of the City's Noise Code.

## Air Quality Element

- **Policy AQ-EJ-1.0:** Air Quality: Ensure that land use decisions, including enforcement actions, are made in an equitable fashion to protect residents and workers in environmental justice communities from the short- and long-term effects of air pollution.

- **Action AQ-EJ-1.1:** Develop standards to minimize indoor and outdoor air pollution for new housing development by minimizing air emissions for new development near pollution sources such as freeways or industrial uses.
- **Action AQ-EJ-1.2:** Pursue incentives and funding to implement best practices to identify and reduce pollution exposure in environmental justice communities developed through the California Air Resources Board's Community Air Protection Program.

## Parks and Recreation Element

- **Policy PR-EJ-1.0:** Parks and Recreation: Distribute recreational facilities equitably throughout Riverside's neighborhoods.
  - **Action PR-EJ-1.1:** Complete an analysis of the City's open space network to reduce gaps in connectivity and identify unsafe conditions to provide safe circulation and link pedestrians to parks and recreational amenities.
  - **Action PR-EJ-1.2:** Identify and reuse vacant and underutilized land within environmental justice communities to help improve local access to recreational amenities.
  - **Action PR-EJ-1.3:** Collaborate with residents to transform City-owned parcels into usable open space based on specific criteria that assess potential of the site.
  - **Action PR-EJ-1.4:** Pursue grants and other funding opportunities to create parks and open space within environmental justice communities in the City.

## Public Facilities and Infrastructure Element

- **Policy FI-EJ-1.0:** Health Care: Coordinate with healthcare providers to expand healthcare access for residents of environmental justice communities.
  - **Action FI-EJ-1.1:** Collaborate with health care and medical service providers to improve access to health care to improve the overall health and wellness of environmental justice community members.
  - **Action FI-EJ-1.2:** Develop a promotional program to encourage retrofit and weatherization of existing housing that results in energy efficiency/conservation to improve economic stability and improved health for residents of environmental justice communities.

## Arts and Culture Element

- **Policy AC-EJ-1.0:** Arts and Culture: Promote equitable distribution of arts and cultural facilities across the City.
  - **Action AC-EJ-1.1:** Evaluate the feasibility of an Arts in Public Places program that requires a percentage-based developer fee for new construction projects with a market value above a certain amount.
  - **Action AC-EJ-1.2:** Develop an action plan with local artists, the community, and school districts to develop a program that addresses promotes public art, identifies possible funding mechanism, and includes public art in environmental justice communities.

- **Action AC-EJ-1.3:** Work with Riverside Unified School District, Alvard Unified School District, and others to support current and create new formal arts program that recognize the work of K-12 schools and students.
- **Action AC-EJ-1.4:** Evaluate and prioritize the distribution of arts facilities within the City through a program that includes community outreach and possible funding opportunities, such as the implementation of micro-grant program.

## Historic Preservation Element

- **Policy HP-EJ-1.0:** Historic Preservation: Encourage identification and preservation of historic and cultural resources associated with communities whose histories and historical contributions are not well documented.
  - **Action HP-EJ-1.1:** Promote historic designation of sites associated with underrepresented communities, including but not limited to, those identified in the Japanese American, Chinese American, and Latino and other Context Statements.
  - **Action HP-EJ-1.2:** Promote the Points of Cultural Interest Program for environmental justice communities and underrepresented communities such as those related to the civil rights movements or social injustices.
  - **Action HP-EJ-1.3:** Promote the City's Mills Act Program to encourage the restoration and preservation of qualified historic buildings in environmental justice communities by targeting outreach within these communities.

Appendix C

**Air Quality and Greenhouse Gas Modeling Inputs**

---



City of Riverside HE Update Project 2029 - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**City of Riverside HE Update Project 2029**

**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                | Size      | Metric        | Lot Acreage | Floor Surface Area | Population |
|--------------------------|-----------|---------------|-------------|--------------------|------------|
| Apartments Low Rise      | 31,564.00 | Dwelling Unit | 1,972.75    | 31,564,000.00      | 101008     |
| Regional Shopping Center | 3,181.93  | 1000sqft      | 73.05       | 3,181,930.00       | 3320       |

**1.2 Other Project Characteristics**

|                                |  |                                |     |                                  |      |
|--------------------------------|--|--------------------------------|-----|----------------------------------|------|
| <b>Urbanization</b>            | Urban  | <b>Wind Speed (m/s)</b>        | 2.4 | <b>Precipitation Freq (Days)</b> | 28   |
| <b>Climate Zone</b>            | 10   |                                |     | <b>Operational Year</b>          | 2029 |
| <b>Utility Company</b>         | Riverside Public Utilities/City of Riverside |                                |     |                                  |      |
| <b>CO2 Intensity (lb/MWhr)</b> | 379  | <b>CH4 Intensity (lb/MWhr)</b> | 0   | <b>N2O Intensity (lb/MWhr)</b>   | 0    |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Updates to CO2e intensity made per City of Riverside Public Utilities 2018 Integrated Resource Plan (Table 17.3.4, [https://www.riversideca.gov/utilities/about-rpu/pdf/RPU\\_Full\\_IRP\\_2018\\_Final.pdf](https://www.riversideca.gov/utilities/about-rpu/pdf/RPU_Full_IRP_2018_Final.pdf)).

Land Use - Land use changes provided by Fehr & Peers (Email from Delia Votsch to Matthew McFalls 6/3/2021). Population data provided by Fehr & Peers.

Construction Phase - Operations only.

Off-road Equipment -

Vehicle Trips - Mobile emissions estimated in EMFAC2021 with VMT data from Fehr & Peers.

Area Mitigation - SCAQMD Rule 445

Waste Mitigation -

| Table Name                | Column Name        | Default Value | New Value  |
|---------------------------|--------------------|---------------|------------|
| tblConstructionPhase      | NumDays            | 6,000.00      | 0.00       |
| tblLandUse                | Population         | 90,273.00     | 101,008.00 |
| tblLandUse                | Population         | 0.00          | 3,320.00   |
| tblProjectCharacteristics | CH4IntensityFactor | 0.033         | 0          |

City of Riverside HE Update Project 2029 - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|                           |                    |        |      |
|---------------------------|--------------------|--------|------|
| tblProjectCharacteristics | CO2IntensityFactor | 789.98 | 379  |
| tblProjectCharacteristics | N2OIntensityFactor | 0.004  | 0    |
| tblVehicleTrips           | ST_TR              | 8.14   | 0.00 |
| tblVehicleTrips           | ST_TR              | 46.12  | 0.00 |
| tblVehicleTrips           | SU_TR              | 6.28   | 0.00 |
| tblVehicleTrips           | SU_TR              | 21.10  | 0.00 |
| tblVehicleTrips           | WD_TR              | 7.32   | 0.00 |
| tblVehicleTrips           | WD_TR              | 37.75  | 0.00 |

**2.0 Emissions Summary**

**2.2 Overall Operational**

|              | ROG           | NOx           | CO             | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total  | Bio- CO2    | NBio- CO2        | Total CO2        | CH4         | N2O         | CO2e             |
|--------------|---------------|---------------|----------------|-------------|---------------|--------------|--------------|----------------|---------------|--------------|-------------|------------------|------------------|-------------|-------------|------------------|
| Category     | lb/day        |               |                |             |               |              |              |                |               |              | lb/day      |                  |                  |             |             |                  |
| Area         | 828.30        | 29.97         | 2601.93        | 0.14        |               | 14.44        | 14.44        |                | 14.44         | 14.44        | 0.00        | 4689.60          | 4689.60          | 4.49        | 0.00        | 4801.90          |
| Energy       | 14.31         | 122.43        | 52.88          | 0.78        |               | 9.89         | 9.89         |                | 9.89          | 9.89         |             | 156143.26        | 156143.26        | 2.99        | 2.86        | 157071.14        |
| Mobile       | 0.00          | 0.00          | 0.00           | 0.00        | 0.00          | 0.00         | 0.00         | 0.00           | 0.00          | 0.00         |             | 0.00             | 0.00             | 0.00        | 0.00        | 0.00             |
| <b>Total</b> | <b>842.62</b> | <b>152.40</b> | <b>2654.80</b> | <b>0.92</b> | <b>0.00</b>   | <b>24.33</b> | <b>24.33</b> | <b>0.00</b>    | <b>24.33</b>  | <b>24.33</b> | <b>0.00</b> | <b>160832.86</b> | <b>160832.86</b> | <b>7.48</b> | <b>2.86</b> | <b>161873.04</b> |

**5.0 Energy Detail**

**5.2 Energy by Land Use - NaturalGas**

City of Riverside HE Update Project 2029 - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|                          | Natural Gas Use | ROG            | NOx             | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2           | Total CO2           | CH4           | N2O           | CO2e                |
|--------------------------|-----------------|----------------|-----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------------|---------------------|---------------|---------------|---------------------|
| Land Use                 | kBTU/yr         | lb/day         |                 |                |               |               |               |               |                |               |               | lb/day   |                     |                     |               |               |                     |
| Apartments Low Rise      | 1308.04         | 14.1063        | 120.5448        | 51.2957        | 0.7694        |               | 9.7462        | 9.7462        |                | 9.7462        | 9.7462        |          | 153,886.9374        | 153,886.9374        | 2.9495        | 2.8213        | 154,801.4105        |
| Regional Shopping Center | 19.1788         | 0.2068         | 1.8803          | 1.5794         | 0.0113        |               | 0.1429        | 0.1429        |                | 0.1429        | 0.1429        |          | 2,256.3243          | 2,256.3243          | 0.0433        | 0.0414        | 2,269.7325          |
| <b>Total</b>             |                 | <b>14.3131</b> | <b>122.4250</b> | <b>52.8751</b> | <b>0.7807</b> |               | <b>9.8891</b> | <b>9.8891</b> |                | <b>9.8891</b> | <b>9.8891</b> |          | <b>156,143.2616</b> | <b>156,143.2616</b> | <b>2.9928</b> | <b>2.8626</b> | <b>157,071.1430</b> |

**6.0 Area Detail**

**6.2 Area by SubCategory**

|                       | ROG           | NOx          | CO             | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total   | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total  | Bio- CO2    | NBio- CO2      | Total CO2      | CH4         | N2O         | CO2e           |
|-----------------------|---------------|--------------|----------------|-------------|---------------|--------------|--------------|----------------|---------------|--------------|-------------|----------------|----------------|-------------|-------------|----------------|
| SubCategory           | lb/day        |              |                |             |               |              |              |                |               |              | lb/day      |                |                |             |             |                |
| Architectural Coating | 62.19         |              |                |             |               | 0.00         | 0.00         |                | 0.00          | 0.00         |             |                | 0.00           |             |             | 0.00           |
| Consumer Products     | 687.97        |              |                |             |               | 0.00         | 0.00         |                | 0.00          | 0.00         |             |                | 0.00           |             |             | 0.00           |
| Hearth                | 0.00          | 0.00         | 0.00           | 0.00        |               | 0.00         | 0.00         |                | 0.00          | 0.00         | 0.00        | 0.00           | 0.00           | 0.00        | 0.00        | 0.00           |
| Landscaping           | 78.14         | 29.97        | 2601.93        | 0.14        |               | 14.44        | 14.44        |                | 14.44         | 14.44        |             | 4689.60        | 4689.60        | 4.49        |             | 4801.90        |
| <b>Total</b>          | <b>828.30</b> | <b>29.97</b> | <b>2601.93</b> | <b>0.14</b> |               | <b>14.44</b> | <b>14.44</b> |                | <b>14.44</b>  | <b>14.44</b> | <b>0.00</b> | <b>4689.60</b> | <b>4689.60</b> | <b>4.49</b> | <b>0.00</b> | <b>4801.90</b> |

City of Riverside HE Update Project 2029 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**City of Riverside HE Update Project 2029**

**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                | Size      | Metric        | Lot Acreage | Floor Surface Area | Population |
|--------------------------|-----------|---------------|-------------|--------------------|------------|
| Apartments Low Rise      | 31,564.00 | Dwelling Unit | 1,972.75    | 31,564,000.00      | 101008     |
| Regional Shopping Center | 3,181.93  | 1000sqft      | 73.05       | 3,181,930.00       | 3320       |

**1.2 Other Project Characteristics**

|                     |       |                         |     |                                  |      |
|---------------------|-------|-------------------------|-----|----------------------------------|------|
| <b>Urbanization</b> | Urban | <b>Wind Speed (m/s)</b> | 2.4 | <b>Precipitation Freq (Days)</b> | 28   |
| <b>Climate Zone</b> | 10    | <b>Operational Year</b> |     |                                  | 2029 |

**Utility Company** Riverside Public Utilities/City of Riverside

|                                |     |                                |   |                                |   |
|--------------------------------|-----|--------------------------------|---|--------------------------------|---|
| <b>CO2 Intensity (lb/MWhr)</b> | 379 | <b>CH4 Intensity (lb/MWhr)</b> | 0 | <b>N2O Intensity (lb/MWhr)</b> | 0 |
|--------------------------------|-----|--------------------------------|---|--------------------------------|---|

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Updates to CO2e intensity made per City of Riverside Public Utilities 2018 Integrated Resource Plan (Table 17.3.4, [https://www.riversideca.gov/utilities/about-rpu/pdf/RPU\\_Full\\_IRP\\_2018\\_Final.pdf](https://www.riversideca.gov/utilities/about-rpu/pdf/RPU_Full_IRP_2018_Final.pdf)).

Land Use - Land use changes provided by Fehr & Peers (Email from Delia Votsch to Matthew McFalls 6/3/2021). Population data provided by Fehr & Peers.

Construction Phase - Operations only.

Off-road Equipment -

Vehicle Trips - Mobile emissions estimated in EMFAC2021 with VMT data from Fehr & Peers.

Area Mitigation - SCAQMD Rule 445

Waste Mitigation -

| Table Name           | Column Name | Default Value | New Value  |
|----------------------|-------------|---------------|------------|
| tblConstructionPhase | NumDays     | 6,000.00      | 0.00       |
| tblLandUse           | Population  | 90,273.00     | 101,008.00 |
| tblLandUse           | Population  | 0.00          | 3,320.00   |

City of Riverside HE Update Project 2029 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|                           |                    |        |      |
|---------------------------|--------------------|--------|------|
| tblProjectCharacteristics | CH4IntensityFactor | 0.033  | 0    |
| tblProjectCharacteristics | CO2IntensityFactor | 789.98 | 379  |
| tblProjectCharacteristics | N2OIntensityFactor | 0.004  | 0    |
| tblVehicleTrips           | ST_TR              | 8.14   | 0.00 |
| tblVehicleTrips           | ST_TR              | 46.12  | 0.00 |
| tblVehicleTrips           | SU_TR              | 6.28   | 0.00 |
| tblVehicleTrips           | SU_TR              | 21.10  | 0.00 |
| tblVehicleTrips           | WD_TR              | 7.32   | 0.00 |
| tblVehicleTrips           | WD_TR              | 37.75  | 0.00 |

**2.0 Emissions Summary**

**2.2 Overall Operational**

|              | ROG           | NOx          | CO            | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2       | NBio- CO2       | Total CO2       | CH4           | N2O         | CO2e            |
|--------------|---------------|--------------|---------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------------|-----------------|-----------------|---------------|-------------|-----------------|
| Category     | tons/yr       |              |               |             |               |              |             |                |               |             | MT/yr          |                 |                 |               |             |                 |
| Area         | 146.67        | 3.75         | 325.24        | 0.02        |               | 1.80         | 1.80        |                | 1.80          | 1.80        | 0.00           | 531.79          | 531.79          | 0.51          | 0.00        | 544.53          |
| Energy       | 2.61          | 22.34        | 9.65          | 0.14        |               | 1.80         | 1.80        |                | 1.80          | 1.80        | 0.00           | 55119.02        | 55119.02        | 0.50          | 0.47        | 55272.64        |
| Mobile       | 0.00          | 0.00         | 0.00          | 0.00        | 0.00          | 0.00         | 0.00        | 0.00           | 0.00          | 0.00        | 0.00           | 0.00            | 0.00            | 0.00          | 0.00        | 0.00            |
| Waste        |               |              |               |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 3625.51        | 0.00            | 3625.51         | 214.26        | 0.00        | 8982.06         |
| Water        |               |              |               |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 727.21         | 7883.17         | 8610.39         | 74.69         | 1.76        | 11003.25        |
| <b>Total</b> | <b>149.28</b> | <b>26.09</b> | <b>334.89</b> | <b>0.16</b> | <b>0.00</b>   | <b>3.61</b>  | <b>3.61</b> | <b>0.00</b>    | <b>3.61</b>   | <b>3.61</b> | <b>4352.73</b> | <b>63533.99</b> | <b>67886.71</b> | <b>289.96</b> | <b>2.24</b> | <b>75802.47</b> |

**5.0 Energy Detail**

City of Riverside HE Update Project 2029 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

|                          | NaturalGas Use | ROG         | NOx          | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2       | Total CO2       | CH4         | N2O         | CO2e            |
|--------------------------|----------------|-------------|--------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-----------------|-----------------|-------------|-------------|-----------------|
| Land Use                 | kBTU/yr        | tons/yr     |              |             |             |               |              |             |                |               |             | MT/yr       |                 |                 |             |             |                 |
| Apartments Low Rise      | 477434000.00   | 2.57        | 22.00        | 9.36        | 0.14        |               | 1.78         | 1.78        |                | 1.78          | 1.78        | 0.00        | 25477.71        | 25477.71        | 0.49        | 0.47        | 25629.11        |
| Regional Shopping Center | 7000250.00     | 0.04        | 0.34         | 0.29        | 0.00        |               | 0.03         | 0.03        |                | 0.03          | 0.03        | 0.00        | 373.56          | 373.56          | 0.01        | 0.01        | 375.78          |
| <b>Total</b>             |                | <b>2.61</b> | <b>22.34</b> | <b>9.65</b> | <b>0.14</b> |               | <b>1.80</b>  | <b>1.80</b> |                | <b>1.80</b>   | <b>1.80</b> | <b>0.00</b> | <b>25851.27</b> | <b>25851.27</b> | <b>0.50</b> | <b>0.47</b> | <b>26004.89</b> |

**5.3 Energy by Land Use - Electricity**

|                          | Electricity Use | Total CO2       | CH4         | N2O         | CO2e            |
|--------------------------|-----------------|-----------------|-------------|-------------|-----------------|
| Land Use                 | kWh/yr          | MT/yr           |             |             |                 |
| Apartments Low Rise      | 131620000.00    | 22627.04        | 0.00        | 0.00        | 22627.04        |
| Regional Shopping Center | 38628600.00     | 6640.71         | 0.00        | 0.00        | 6640.71         |
| <b>Total</b>             |                 | <b>29267.75</b> | <b>0.00</b> | <b>0.00</b> | <b>29267.75</b> |

**6.0 Area Detail**

---

**6.2 Area by SubCategory**

City of Riverside HE Update Project 2029 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|                       | ROG           | NOx         | CO            | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2     | Total CO2     | CH4         | N2O         | CO2e          |
|-----------------------|---------------|-------------|---------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|---------------|---------------|-------------|-------------|---------------|
| SubCategory           | tons/yr       |             |               |             |               |              |             |                |               |             | MT/yr       |               |               |             |             |               |
| Architectural Coating | 11.35         |             |               |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00          | 0.00          | 0.00        | 0.00        | 0.00          |
| Consumer Products     | 125.55        |             |               |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00          | 0.00          | 0.00        | 0.00        | 0.00          |
| Hearth                | 0.00          | 0.00        | 0.00          | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 0.00          | 0.00          | 0.00        | 0.00        | 0.00          |
| Landscaping           | 9.77          | 3.75        | 325.24        | 0.02        |               | 1.80         | 1.80        |                | 1.80          | 1.80        | 0.00        | 531.79        | 531.79        | 0.51        | 0.00        | 544.53        |
| <b>Total</b>          | <b>146.67</b> | <b>3.75</b> | <b>325.24</b> | <b>0.02</b> |               | <b>1.80</b>  | <b>1.80</b> |                | <b>1.80</b>   | <b>1.80</b> | <b>0.00</b> | <b>531.79</b> | <b>531.79</b> | <b>0.51</b> | <b>0.00</b> | <b>544.53</b> |

**7.0 Water Detail**

**7.2 Water by Land Use**

| Indoor/Outdoor Use       | Total CO2         | CH4            | N2O          | CO2e        |                 |
|--------------------------|-------------------|----------------|--------------|-------------|-----------------|
| Land Use                 | Mgal              | MT/yr          |              |             |                 |
| Apartments Low Rise      | 2056.52 / 1296.5  | 7732.12        | 67.01        | 1.58        | 9878.94         |
| Regional Shopping Center | 235.694 / 144.457 | 878.27         | 7.68         | 0.18        | 1124.31         |
| <b>Total</b>             |                   | <b>8610.39</b> | <b>74.69</b> | <b>1.76</b> | <b>11003.25</b> |

**8.0 Waste Detail**

**8.2 Waste by Land Use**

City of Riverside HE Update Project 2029 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|                          | Waste Disposed |         | Total CO2      | CH4           | N2O         | CO2e           |
|--------------------------|----------------|---------|----------------|---------------|-------------|----------------|
| Land Use                 | tons           | tons/yr | MT/yr          |               |             |                |
| Apartments Low Rise      | 14519.40       |         | 2947.32        | 174.18        | 0.00        | 7301.85        |
| Regional Shopping Center | 3341.03        |         | 678.20         | 40.08         | 0.00        | 1680.21        |
| <b>Total</b>             |                |         | <b>3625.51</b> | <b>214.26</b> | <b>0.00</b> | <b>8982.06</b> |

City of Riverside HE Update No Project 2021 - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**City of Riverside HE Update No Project 2021**

**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building             | 237.32 | 1000sqft      | 5.45        | 237,325.00         | 0          |
| Government Office Building          | 541.80 | 1000sqft      | 12.44       | 541,800.00         | 0          |
| General Heavy Industry              | 747.07 | 1000sqft      | 17.15       | 747,070.00         | 0          |
| High Turnover (Sit Down Restaurant) | 222.28 | 1000sqft      | 5.10        | 222,275.00         | 0          |
| Apartments Low Rise                 | 389.00 | Dwelling Unit | 24.31       | 389,000.00         | 1113       |

**1.2 Other Project Characteristics**

|                                 |  |                                 |     |                                  |      |
|---------------------------------|--|---------------------------------|-----|----------------------------------|------|
| <b>Urbanization</b>             | Urban  | <b>Wind Speed (m/s)</b>         | 2.4 | <b>Precipitation Freq (Days)</b> | 28   |
| <b>Climate Zone</b>             | 10   |                                 |     | <b>Operational Year</b>          | 2021 |
| <b>Utility Company</b>          | Riverside Public Utilities/City of Riverside |                                 |     |                                  |      |
| <b>CO2 Intensity (lb/MW hr)</b> | 774  | <b>CH4 Intensity (lb/MW hr)</b> | 0   | <b>N2O Intensity (lb/MW hr)</b>  | 0    |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Updates to CO2e intensity made per City of Riverside Public Utilities 2018 Integrated Resource Plan (Table 17.3.4, [https://www.riversideca.gov/utilities/about-ru/pdf/RPU\\_Full\\_IRP\\_2018\\_Final.pdf](https://www.riversideca.gov/utilities/about-ru/pdf/RPU_Full_IRP_2018_Final.pdf)).

Land Use - Land use change provided by Fehr & Peers (Email from Delia Votsch to Matthew McFalls 6/3/2021)

Construction Phase - Only Operations.

Off-road Equipment -

Vehicle Trips - Mobile emissions estimated using EMFAC2021.

| Table Name           | Column Name | Default Value | New Value |
|----------------------|-------------|---------------|-----------|
| tblConstructionPhase | NumDays     | 40.00         | 0.00      |

City of Riverside HE Update No Project 2021 - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|                           |                    |            |            |
|---------------------------|--------------------|------------|------------|
| tblLandUse                | LandUseSquareFeet  | 237,320.00 | 237,325.00 |
| tblLandUse                | LandUseSquareFeet  | 222,280.00 | 222,275.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.033      | 0          |
| tblProjectCharacteristics | CO2IntensityFactor | 789.98     | 774        |
| tblProjectCharacteristics | N2OIntensityFactor | 0.004      | 0          |
| tblVehicleTrips           | ST_TR              | 8.14       | 0.00       |
| tblVehicleTrips           | ST_TR              | 6.42       | 0.00       |
| tblVehicleTrips           | ST_TR              | 2.21       | 0.00       |
| tblVehicleTrips           | ST_TR              | 122.40     | 0.00       |
| tblVehicleTrips           | SU_TR              | 6.28       | 0.00       |
| tblVehicleTrips           | SU_TR              | 5.09       | 0.00       |
| tblVehicleTrips           | SU_TR              | 0.70       | 0.00       |
| tblVehicleTrips           | SU_TR              | 142.64     | 0.00       |
| tblVehicleTrips           | WD_TR              | 7.32       | 0.00       |
| tblVehicleTrips           | WD_TR              | 3.93       | 0.00       |
| tblVehicleTrips           | WD_TR              | 9.74       | 0.00       |
| tblVehicleTrips           | WD_TR              | 22.59      | 0.00       |
| tblVehicleTrips           | WD_TR              | 112.18     | 0.00       |

**2.0 Emissions Summary**

**2.2 Overall Operational**

|          | ROG    | NOx   | CO     | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4   | N2O  | CO2e     |
|----------|--------|-------|--------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------|------|----------|
| Category | lb/day |       |        |      |               |              |            |                |               |             | lb/day   |           |           |       |      |          |
| Area     | 150.35 | 8.44  | 230.17 | 0.51 |               | 29.89        | 29.89      |                | 29.89         | 29.89       | 3643.73  | 7060.17   | 10703.90  | 10.92 | 0.25 | 11050.68 |
| Energy   | 2.76   | 24.97 | 20.36  | 0.15 |               | 1.90         | 1.90       |                | 1.90          | 1.90        |          | 30077.24  | 30077.24  | 0.58  | 0.55 | 30255.98 |

City of Riverside HE Update No Project 2021 - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|              |               |              |               |             |             |              |              |             |              |              |                |                 |                 |              |             |                 |
|--------------|---------------|--------------|---------------|-------------|-------------|--------------|--------------|-------------|--------------|--------------|----------------|-----------------|-----------------|--------------|-------------|-----------------|
| Mobile       | 0.00          | 0.00         | 0.00          | 0.00        | 0.00        | 0.00         | 0.00         | 0.00        | 0.00         | 0.00         | 0.00           | 0.00            | 0.00            | 0.00         | 0.00        | 0.00            |
| <b>Total</b> | <b>153.11</b> | <b>33.41</b> | <b>250.53</b> | <b>0.66</b> | <b>0.00</b> | <b>31.80</b> | <b>31.80</b> | <b>0.00</b> | <b>31.80</b> | <b>31.80</b> | <b>3643.73</b> | <b>37137.41</b> | <b>40781.15</b> | <b>11.50</b> | <b>0.80</b> | <b>41306.66</b> |

**5.0 Energy Detail**

**5.2 Energy by Land Use - NaturalGas**

|                                     | NaturalGas Use | ROG         | NOx          | CO           | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2       | Total CO2       | CH4         | N2O         | CO2e            |
|-------------------------------------|----------------|-------------|--------------|--------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------------|-----------------|-------------|-------------|-----------------|
| Land Use                            | kBTU/yr        | lb/day      |              |              |             |               |              |             |                |               |             | lb/day   |                 |                 |             |             |                 |
| Apartments Low Rise                 | 16120.50       | 0.17        | 1.49         | 0.63         | 0.01        |               | 0.12         | 0.12        |                | 0.12          | 0.12        |          | 1896.53         | 1896.53         | 0.04        | 0.03        | 1907.80         |
| General Heavy Industry              | 66172.00       | 0.71        | 6.49         | 5.45         | 0.04        |               | 0.49         | 0.49        |                | 0.49          | 0.49        |          | 7784.94         | 7784.94         | 0.15        | 0.14        | 7831.20         |
| General Office Building             | 2230.20        | 0.02        | 0.22         | 0.18         | 0.00        |               | 0.02         | 0.02        |                | 0.02          | 0.02        |          | 262.38          | 262.38          | 0.01        | 0.00        | 263.94          |
| Government Office Building          | 5091.44        | 0.05        | 0.50         | 0.42         | 0.00        |               | 0.04         | 0.04        |                | 0.04          | 0.04        |          | 598.99          | 598.99          | 0.01        | 0.01        | 602.55          |
| High Turnover (Sit Down Restaurant) | 166042.00      | 1.79        | 16.28        | 13.67        | 0.10        |               | 1.24         | 1.24        |                | 1.24          | 1.24        |          | 19534.41        | 19534.41        | 0.37        | 0.36        | 19650.49        |
| <b>Total</b>                        |                | <b>2.76</b> | <b>24.97</b> | <b>20.36</b> | <b>0.15</b> |               | <b>1.90</b>  | <b>1.90</b> |                | <b>1.90</b>   | <b>1.90</b> |          | <b>30077.24</b> | <b>30077.24</b> | <b>0.58</b> | <b>0.55</b> | <b>30255.98</b> |

**6.0 Area Detail**

**6.2 Area by SubCategory**

|  | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

City of Riverside HE Update No Project 2021 - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| SubCategory       | lb/day                |             |               |             |  |              |              |      |              |              | lb/day         |                |                 |              |             |                 |
|-------------------|-----------------------|-------------|---------------|-------------|--|--------------|--------------|------|--------------|--------------|----------------|----------------|-----------------|--------------|-------------|-----------------|
|                   | Architectural Coating | 5.11        |               |             |  |              | 0.00         | 0.00 |              | 0.00         | 0.00           |                |                 | 0.00         |             |                 |
| Consumer Products | 42.32                 |             |               |             |  | 0.00         | 0.00         |      | 0.00         | 0.00         |                |                | 0.00            |              |             | 0.00            |
| Hearth            | 101.93                | 8.07        | 197.83        | 0.50        |  | 29.72        | 29.72        |      | 29.72        | 29.72        | 3643.73        | 7002.00        | 10645.73        | 10.87        | 0.25        | 10991.09        |
| Landscaping       | 0.99                  | 0.37        | 32.34         | 0.00        |  | 0.18         | 0.18         |      | 0.18         | 0.18         |                | 58.17          | 58.17           | 0.06         |             | 59.59           |
| <b>Total</b>      | <b>150.35</b>         | <b>8.44</b> | <b>230.17</b> | <b>0.51</b> |  | <b>29.89</b> | <b>29.89</b> |      | <b>29.89</b> | <b>29.89</b> | <b>3643.73</b> | <b>7060.17</b> | <b>10703.90</b> | <b>10.92</b> | <b>0.25</b> | <b>11050.68</b> |

City of Riverside HE Update No Project 2021 - Riverside-South Coast County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**City of Riverside HE Update No Project 2021**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building             | 237.32 | 1000sqft      | 5.45        | 237,325.00         | 0          |
| Government Office Building          | 541.80 | 1000sqft      | 12.44       | 541,800.00         | 0          |
| General Heavy Industry              | 747.07 | 1000sqft      | 17.15       | 747,070.00         | 0          |
| High Turnover (Sit Down Restaurant) | 222.28 | 1000sqft      | 5.10        | 222,275.00         | 0          |
| Apartments Low Rise                 | 389.00 | Dwelling Unit | 24.31       | 389,000.00         | 1113       |

**1.2 Other Project Characteristics**

|                                |  |                                |     |                                  |      |
|--------------------------------|--|--------------------------------|-----|----------------------------------|------|
| <b>Urbanization</b>            | Urban  | <b>Wind Speed (m/s)</b>        | 2.4 | <b>Precipitation Freq (Days)</b> | 28   |
| <b>Climate Zone</b>            | 10   |                                |     | <b>Operational Year</b>          | 2021 |
| <b>Utility Company</b>         | Riverside Public Utilities/City of Riverside |                                |     |                                  |      |
| <b>CO2 Intensity (lb/MWhr)</b> | 774  | <b>CH4 Intensity (lb/MWhr)</b> | 0   | <b>N2O Intensity (lb/MWhr)</b>   | 0    |

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - Updates to CO2e intensity made per City of Riverside Public Utilities 2018 Integrated Resource Plan (Table 17.3.4, [https://www.riversideca.gov/utilities/about-rpu/pdf/RPU\\_Full\\_IRP\\_2018\\_Final.pdf](https://www.riversideca.gov/utilities/about-rpu/pdf/RPU_Full_IRP_2018_Final.pdf)).

Land Use - Land use change provided by Fehr & Peers (Email from Delia Votsch to Matthew McFalls 6/3/2021)

Construction Phase - Only Operations.

Off-road Equipment -

Vehicle Trips - Mobile emissions estimated using EMFAC2021.

| Table Name           | Column Name | Default Value | New Value |
|----------------------|-------------|---------------|-----------|
| tblConstructionPhase | NumDays     | 40.00         | 0.00      |

City of Riverside HE Update No Project 2021 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|                           |                    |            |            |
|---------------------------|--------------------|------------|------------|
| tblLandUse                | LandUseSquareFeet  | 237,320.00 | 237,325.00 |
| tblLandUse                | LandUseSquareFeet  | 222,280.00 | 222,275.00 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.033      | 0          |
| tblProjectCharacteristics | CO2IntensityFactor | 789.98     | 774        |
| tblProjectCharacteristics | N2OIntensityFactor | 0.004      | 0          |
| tblVehicleTrips           | ST_TR              | 8.14       | 0.00       |
| tblVehicleTrips           | ST_TR              | 6.42       | 0.00       |
| tblVehicleTrips           | ST_TR              | 2.21       | 0.00       |
| tblVehicleTrips           | ST_TR              | 122.40     | 0.00       |
| tblVehicleTrips           | SU_TR              | 6.28       | 0.00       |
| tblVehicleTrips           | SU_TR              | 5.09       | 0.00       |
| tblVehicleTrips           | SU_TR              | 0.70       | 0.00       |
| tblVehicleTrips           | SU_TR              | 142.64     | 0.00       |
| tblVehicleTrips           | WD_TR              | 7.32       | 0.00       |
| tblVehicleTrips           | WD_TR              | 3.93       | 0.00       |
| tblVehicleTrips           | WD_TR              | 9.74       | 0.00       |
| tblVehicleTrips           | WD_TR              | 22.59      | 0.00       |
| tblVehicleTrips           | WD_TR              | 112.18     | 0.00       |

**2.0 Emissions Summary**

**2.2 Overall Operational**

|          | ROG     | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e     |
|----------|---------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|----------|
| Category | tons/yr |      |      |      |               |              |            |                |               |             | MT/yr    |           |           |      |      |          |
| Area     | 10.05   | 0.15 | 6.52 | 0.01 |               | 0.39         | 0.39       |                | 0.39          | 0.39        | 41.32    | 86.00     | 127.32    | 0.13 | 0.00 | 131.39   |
| Energy   | 0.50    | 4.56 | 3.72 | 0.03 |               | 0.35         | 0.35       |                | 0.35          | 0.35        | 0.00     | 14266.90  | 14266.90  | 0.10 | 0.09 | 14296.50 |

City of Riverside HE Update No Project 2021 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|              |              |             |              |             |             |             |             |             |             |             |                |                 |                 |              |             |                 |
|--------------|--------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|-----------------|-----------------|--------------|-------------|-----------------|
| Mobile       | 0.00         | 0.00        | 0.00         | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00        | 0.00           | 0.00            | 0.00            | 0.00         | 0.00        | 0.00            |
| Waste        |              |             |              |             |             | 0.00        | 0.00        |             | 0.00        | 0.00        | 908.39         | 0.00            | 908.39          | 53.68        | 0.00        | 2250.49         |
| Water        |              |             |              |             |             | 0.00        | 0.00        |             | 0.00        | 0.00        | 131.78         | 2336.18         | 2467.97         | 13.54        | 0.32        | 2901.59         |
| <b>Total</b> | <b>10.56</b> | <b>4.70</b> | <b>10.23</b> | <b>0.03</b> | <b>0.00</b> | <b>0.74</b> | <b>0.74</b> | <b>0.00</b> | <b>0.74</b> | <b>0.74</b> | <b>1081.49</b> | <b>16689.08</b> | <b>17770.58</b> | <b>67.44</b> | <b>0.41</b> | <b>19579.98</b> |

**5.0 Energy Detail**

**5.2 Energy by Land Use - Natural Gas**

|                                     | Natural Gas Use | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2      | Total CO2      | CH4         | N2O         | CO2e           |
|-------------------------------------|-----------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|----------------|----------------|-------------|-------------|----------------|
| Land Use                            | kBTU/yr         | tons/yr     |             |             |             |               |              |             |                |               |             | MT/yr       |                |                |             |             |                |
| Apartments Low Rise                 | 5883980.00      | 0.03        | 0.27        | 0.12        | 0.00        |               | 0.02         | 0.02        |                | 0.02          | 0.02        | 0.00        | 313.99         | 313.99         | 0.01        | 0.01        | 315.86         |
| General Heavy Industry              | 24152800.00     | 0.13        | 1.18        | 0.99        | 0.01        |               | 0.09         | 0.09        |                | 0.09          | 0.09        | 0.00        | 1288.88        | 1288.88        | 0.02        | 0.02        | 1296.54        |
| General Office Building             | 814025.00       | 0.00        | 0.04        | 0.03        | 0.00        |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00        | 43.44          | 43.44          | 0.00        | 0.00        | 43.70          |
| Government Office Building          | 1858370.00      | 0.01        | 0.09        | 0.08        | 0.00        |               | 0.01         | 0.01        |                | 0.01          | 0.01        | 0.00        | 99.17          | 99.17          | 0.00        | 0.00        | 99.76          |
| High Turnover (Sit Down Restaurant) | 60605500.00     | 0.33        | 2.97        | 2.50        | 0.02        |               | 0.23         | 0.23        |                | 0.23          | 0.23        | 0.00        | 3234.14        | 3234.14        | 0.06        | 0.06        | 3253.36        |
| <b>Total</b>                        |                 | <b>0.50</b> | <b>4.56</b> | <b>3.72</b> | <b>0.03</b> |               | <b>0.35</b>  | <b>0.35</b> |                | <b>0.35</b>   | <b>0.35</b> | <b>0.00</b> | <b>4979.63</b> | <b>4979.63</b> | <b>0.10</b> | <b>0.09</b> | <b>5009.22</b> |

**5.3 Energy by Land Use - Electricity**

City of Riverside HE Update No Project 2021 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|                                     | Electricity Use | Total CO2      | CH4         | N2O         | CO2e           |
|-------------------------------------|-----------------|----------------|-------------|-------------|----------------|
| Land Use                            | kWh/yr          | MT/yr          |             |             |                |
| Apartments Low Rise                 | 1622110.00      | 569.49         | 0.00        | 0.00        | 569.49         |
| General Heavy Industry              | 7410930.00      | 2601.83        | 0.00        | 0.00        | 2601.83        |
| General Office Building             | 2181020.00      | 765.71         | 0.00        | 0.00        | 765.71         |
| Government Office Building          | 4979140.00      | 1748.08        | 0.00        | 0.00        | 1748.08        |
| High Turnover (Sit Down Restaurant) | 10260200.00     | 3602.16        | 0.00        | 0.00        | 3602.16        |
| <b>Total</b>                        |                 | <b>9287.28</b> | <b>0.00</b> | <b>0.00</b> | <b>9287.28</b> |

**6.0 Area Detail**

**6.2 Area by SubCategory**

|                       | ROG          | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2     | NBio- CO2    | Total CO2     | CH4         | N2O         | CO2e          |
|-----------------------|--------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|--------------|--------------|---------------|-------------|-------------|---------------|
| SubCategory           | tons/yr      |             |             |             |               |              |             |                |               |             | MT/yr        |              |               |             |             |               |
| Architectural Coating | 0.93         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00         | 0.00         | 0.00          | 0.00        | 0.00        | 0.00          |
| Consumer Products     | 7.72         |             |             |             |               | 0.00         | 0.00        |                | 0.00          | 0.00        | 0.00         | 0.00         | 0.00          | 0.00        | 0.00        | 0.00          |
| Hearth                | 1.27         | 0.10        | 2.47        | 0.01        |               | 0.37         | 0.37        |                | 0.37          | 0.37        | 41.32        | 79.40        | 120.72        | 0.12        | 0.00        | 124.64        |
| Landscaping           | 0.12         | 0.05        | 4.04        | 0.00        |               | 0.02         | 0.02        |                | 0.02          | 0.02        | 0.00         | 6.60         | 6.60          | 0.01        | 0.00        | 6.76          |
| <b>Total</b>          | <b>10.05</b> | <b>0.15</b> | <b>6.52</b> | <b>0.01</b> |               | <b>0.39</b>  | <b>0.39</b> |                | <b>0.39</b>   | <b>0.39</b> | <b>41.32</b> | <b>86.00</b> | <b>127.32</b> | <b>0.13</b> | <b>0.00</b> | <b>131.39</b> |

City of Riverside HE Update No Project 2021 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.0 Water Detail**

---

**7.2 Water by Land Use**

|                                     | Indoor/Outdoor<br>or Use | Total CO2       | CH4            | N2O           | CO2e            |
|-------------------------------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Land Use                            | Mgal                     | MT/yr           |                |               |                 |
| Apartments Low Rise                 | 25.3449 / 15.9783        | 186.2265        | 0.8259         | 0.0195        | 212.6842        |
| General Heavy Industry              | 172.76 / 0               | 844.5668        | 5.6294         | 0.1329        | 1,024.91        |
| General Office Building             | 42.1798 / 25.8521        | 307.0394        | 1.3744         | 0.0325        | 351.0712        |
| Government Office Building          | 107.634 / 65.9691        | 783.4994        | 3.5073         | 0.0828        | 895.8591        |
| High Turnover (Sit Down Restaurant) | 67.4695 / 4.30656        | 346.634         | 2.1985         | 0.0519        | 417.0658        |
| <b>Total</b>                        |                          | <b>2,467.97</b> | <b>13.5354</b> | <b>0.3196</b> | <b>2,901.59</b> |

**8.0 Waste Detail**

---

**8.2 Waste by Land Use**

|                     | Waste Disposed | Total CO2 | CH4  | N2O  | CO2e  |
|---------------------|----------------|-----------|------|------|-------|
| Land Use            | tons           | MT/yr     |      |      |       |
| Apartments Low Rise | 178.94         | 36.32     | 2.15 | 0.00 | 89.99 |

City of Riverside HE Update No Project 2021 - Riverside-South Coast County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

|                                     |         |               |              |             |                |
|-------------------------------------|---------|---------------|--------------|-------------|----------------|
| General Heavy Industry              | 926.37  | 188.04        | 11.11        | 0.00        | 465.87         |
| General Office Building             | 220.71  | 44.80         | 2.65         | 0.00        | 111.00         |
| Government Office Building          | 503.87  | 102.28        | 6.04         | 0.00        | 253.40         |
| High Turnover (Sit Down Restaurant) | 2645.13 | 536.94        | 31.73        | 0.00        | 1330.24        |
| <b>Total</b>                        |         | <b>908.39</b> | <b>53.68</b> | <b>0.00</b> | <b>2250.49</b> |

Mobile Emissions Summary

| Year | Condition        | VehType       | VMT (per day)    | Running (RUNEX, PMTW, PMBW) grams per mile |      |      |         |        |          |         |      |       |      | Pounds per day |           |            |              |          |           |          | Metric Tons Per Year |           |                |          |          |                |
|------|------------------|---------------|------------------|--|------|------|---------|--------|----------|---------|------|-------|------|----------------|-----------|------------|--------------|----------|-----------|----------|----------------------|-----------|----------------|----------|----------|----------------|
|      |                  |               |                  | ROG  | NOx  | CO   | PM10 Ex | PM10 D | PM2.5 Ex | PM2.5 D | SO2  | CO2   | CH4  | N2O            | ROG       | NOx        | CO           | PM10 Ex  | PM10 D    | PM2.5 Ex | PM2.5 D              | SO2       | CO2            | CH4      | N2O      | CO2e           |
| 2029 | Project Baseline | Passenger Car | 1,615,587        | 0.01                                       | 0.05 | 0.76 | 0.00    | 0.02   | 0.00     | 0.01    | 0.00 | 291   | 0.01 | 0.01           | 42        | 163        | 2,708        | 4        | 61        | 4        | 18                   | 10        | 163,203        | 0        | 0        | 163,203        |
| 2029 | Project Baseline | Light Truck   | 18,063           | 0.03                                       | 0.33 | 0.44 | 0.01    | 0.09   | 0.01     | 0.03    | 0.00 | 505   | 0.00 | 0.04           | 1         | 13         | 18           | 0        | 3         | 0        | 1                    | 0         | 3,166          | 0        | 0        | 3,166          |
| 2029 | Project Baseline | Medium Truck  | 30,486           | 0.01                                       | 0.48 | 0.16 | 0.01    | 0.05   | 0.01     | 0.02    | 0.01 | 1,077 | 0.01 | 0.13           | 1         | 32         | 11           | 0        | 4         | 0        | 1                    | 1         | 11,391         | 0        | 0        | 11,391         |
| 2029 | Project Baseline | Heavy Truck   | 10,058           | 0.01                                       | 1.40 | 0.44 | 0.02    | 0.12   | 0.02     | 0.04    | 0.01 | 1,399 | 0.06 | 0.22           | 0         | 31         | 10           | 1        | 3         | 1        | 1                    | 0         | 4,882          | 0        | 0        | 4,882          |
| 2029 | <i>Total</i>     |               | <i>1,674,194</i> |  |      |      |         |        |          |         |      |       |      |                | <i>45</i> | <i>239</i> | <i>2,747</i> | <i>5</i> | <i>70</i> | <i>5</i> | <i>22</i>            | <i>11</i> | <i>182,642</i> | <i>0</i> | <i>0</i> | <i>182,642</i> |



Appendix D

**Potential for Special-Status Species Occurrence**

---



## Appendix D

# Potential for Special-Status Species Occurrence

| Common/Scientific Name  | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements   | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|---|---|--|---|--|
| <b>Plants</b>   |   |  |   |  |
| chaparral sand-verbena<br>( <i>Abronia villosa</i> var. <i>aurita</i> ) | -/-/1B.1/-  | Annual herb. Sandy soils in chaparral, coastal scrub, and desert dunes, mostly on broad alluvial fans and benches. Known to occur in northern Orange County, western Riverside County, San Bernardino County, San Diego County, and southern Imperial County. Elevation range: 246–5,248 ft. Blooming period: January–September.   | HP  | Potentially suitable habitat is present in the City in association with the Santa Ana River floodplain. This species is not expected to occur outside of the Santa Ana River floodplain.           |
| Munz's onion<br>( <i>Allium munzii</i> )                                | E/T/1B.1/<br>MSHCP(b)                               | Perennial bulbiferous herb. Mesic exposures or seasonally moist microsites in grassy openings in coastal sage scrub, chaparral, juniper woodland, and valley and foothill grasslands in clay soils. Associated with a special “clay soil flora” and is only known from Riverside County. At least one population (Bachelor Mountain) is reported to be associated with pyroxenite outcrops instead of clay. Elevation range: 974–3,510 ft. Blooming period: March–May. | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This species is a Narrow Endemic Plant Species. The City lies outside of the MSHCP survey area for the species (Areas 1, 2, and 4). |
| San Diego ambrosia<br>( <i>Ambrosia pumila</i> )                        | E/-/1B.1/<br>MSHCP(b)                               | Perennial rhizomatous herb. Open floodplain terraces, watershed margins of vernal pools, or alkali playas in a variety of associations that are dominated by sparse non-native grasslands or ruderal habitat. Elevation range: less than 1,600 ft. in known Riverside County populations and less than 600 ft. in San Diego County. Blooming period: April–October.  | HP  | Suitable habitat is present within the City.<br>MSHCP: This is a Narrow Endemic Plant Species (Area 7) for the City.   |

| Common/Scientific Name   | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements   | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|--|---|--|---|--|
| marsh sandwort<br>( <i>Arenaria paludicola</i> )                     | E/E/1B.1/-  | Perennial stoloniferous herb. Sandy soils and openings in marshes and swamps (freshwater or brackish). Elevation range: 10–550 ft. Blooming period: May–August.  | A   | There are no records of occurrence of this species in Riverside County. As such, this species is considered absent from the City.  |
| western spleenwort<br>( <i>Asplenium vespertinum</i> )               | -/-/4.2/-   | Perennial rhizomatous herb. Rocky soils in chaparral, cismontane woodland, and coastal scrub. Elevation range: 600–3,300 ft. Blooming period: February–June.   | HP  | Potentially suitable habitat is present in the City.   |
| Horn’s milk-vetch<br>( <i>Astragalus hornii</i> var. <i>hornii</i> ) | -/-/1B.1/-  | Annual herb. Lake margins and alkaline soils in meadows, seeps, and playas. Elevation range: 195–2,790 ft. Blooming period: May–October.   | HP  | Potentially suitable habitat is present in the City.   |
| Nevin’s barberry<br>( <i>Berberis nevinii</i> )                      | E/E/1B.1/<br>MSHCP(d)                               | Evergreen shrub. Sandy or gravelly soils in chaparral, cismontane woodland, coastal scrub, and riparian scrub. Elevation range: 898–2,707 ft. Blooming period: March–June.   | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: The eastern portion of the City is within a Criteria Area (Area 6) for this species.  |
| thread-leaved brodiaea<br>( <i>Brodiaea filifolia</i> )              | T/E/1B.1/<br>MSHCP(d)                               | Perennial bulbiferous herb. Clay soils in openings in chaparral, cismontane woodland, coastal scrub, playas, valley and foothill grassland, and vernal pools. Elevation range: 82–3,673 ft. Blooming period: March–June.             | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: The City lies outside the MSHCP survey area for the species (Criteria Area 3).  |
| Plummer’s mariposa lily<br>( <i>Calochortus plummerae</i> )          | -/-/4.2/<br>MSHCP(e)                                | Perennial bulbiferous herb. Granitic and rocky areas in chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, and valley and foothill grassland. Elevation range: 328–5,576 ft. Blooming period: May–July. | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: MSHCP-specific conservation requirements would be necessary in portions of the City containing suitable habitat for this species. |

| Common/Scientific Name   | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|--|---|---|---|--|
| bristly sedge<br>( <i>Carex comosa</i> )   | -/-/2B.1/-  | Perennial rhizomatous herb. Coastal prairie, marshes and swamps around lake margins, and valley and foothill grassland. Elevation range: sea level to 2,000 ft. Blooming period: May–September.           | HA  | Not expected to occur in the City. The only record of occurrence for this species within the region is from 1882 and is now extirpated. All other records for this species are located in central and northern California. |
| Payson’s jewel-flower<br>( <i>Caulanthus simulans</i> )                          | -/-/4.2/<br>MSHCP                                   | Annual herb. Sandy and granitic soils in chaparral and coastal scrub. Elevation range: 295–7,218 ft. Blooming period: February–June.  | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This species is fully covered by the MSHCP.   |
| smooth tarplant<br>( <i>Centromadia pungens</i> ssp. <i>laevis</i> )             | -/-/1B.1/<br>MSHCP(d)                               | Annual herb. Alkaline soils in chenopod scrub, meadows and seeps, playas, riparian woodland, and valley and foothill grassland. Elevation range: sea level to 2,100 ft. Blooming period: April–September. | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: The City lies outside the MSHCP survey area for the species (Criteria Areas 1, 2, 3, and 4).  |
| salt marsh bird’s-beak<br>( <i>Chloropyron maritimum</i> ssp. <i>maritimum</i> ) | E/E/1B.1/-  | Hemiparasitic annual herb. Coastal dunes and coastal salt marshes and swamps. Elevation range: sea level to 90 ft. Blooming period: May–October.  | HA  | No suitable habitat is present within the City. The only record of occurrence for this species within the region is from 1888 and it is presumed extirpated.   |
| Peninsular spineflower<br>( <i>Chorizanthe leptotheca</i> )                      | -/-/4.2/<br>MSHCP                                   | Annual herb. Alluvial fans or granitic areas in chaparral, coastal scrub, and lower montane coniferous forest. Elevation range: 984–6,232 ft. Blooming period: May–August.                                | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This species is fully covered by the MSHCP.   |
| Parry’s spineflower<br>( <i>Chorizanthe parryi</i> var. <i>parryi</i> )          | -/-/1B.1/<br>MSHCP(e)                               | Annual herb. Sandy or rocky openings in chaparral, coastal scrub, cismontane woodland, and valley and foothill grassland. Elevation range: 902–4,001 ft. Blooming period: April–June.                     | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: MSHCP-specific conservation requirements would be necessary in portions of the City containing suitable habitat for this species.                           |

| Common/Scientific Name  | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements   | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|---|---|--|---|--|
| long-spined spineflower<br>( <i>Chorizanthe polygonoides</i> var. <i>longispina</i> ) | -/-/1B.2/<br>MSHCP                                  | Annual herb. Associated primarily with heavy, often rocky, clay soils in southern needlegrass grassland, and openings in coastal sage scrub, chaparral, valley and foothill grasslands, and vernal pools. Elevation range: 98–5,020 ft. Blooming period: April–July. | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This species is fully covered by the MSHCP.   |
| small-flowered morning-glory<br>( <i>Convolvulus simulans</i> )                       | -/-/4.2/<br>MSHCP                                   | Annual herb. Friable clay soils or serpentine seeps in chaparral openings, coastal scrub, and valley and foothill grassland. Elevation range: 98–2,297 ft. Blooming period: March–July.  | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This species is fully covered by the MSHCP.   |
| Peruvian dodder<br>( <i>Cuscuta obtusiflora</i> var. <i>glandulosa</i> )              | -/-/2B.2/-  | Annual parasitic vine. Freshwater marshes and swamps. Elevation range: 49–918 ft. Blooming period: July–October.   | HP  | Potentially suitable habitat is present in the City.   |
| snake cholla<br>( <i>Cylindropuntia californica</i> var. <i>californica</i> )         | -/-/1B.1/-  | Perennial stem succulent. Chaparral and coastal scrub. Elevation range: 100–500 ft. Blooming period: April–May.  | HP  | Potentially suitable habitat is present in the City.   |
| paniculate tarplant<br>( <i>Deinandra paniculata</i> )                                | -/-/4.2/-   | Annual herb. Vernal mesic soils in coastal scrub, valley and foothill grassland, and vernal pools. Elevation range: 82–3,084 ft. Blooming period: April–November.  | HP  | Potentially suitable habitat is present in the City.   |
| slender-horned spineflower<br>( <i>Dodecahema leptoceras</i> )                        | E/E/1B.1/<br>MSHCP(b)                               | Annual herb. Sandy soils in chaparral, cismontane woodland, and alluvial fan coastal scrub. Elevation range: 656–2,493 ft. Blooming period: April–June.  | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This species is a Narrow Endemic Plant Species. The City lies outside of the MSHCP survey area for the species (Areas 1 and 5). |

| Common/Scientific Name   | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements   | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale   |
|--|---|--|---|---|
| many-stemmed dudleya<br>( <i>Dudleya multicaulis</i> )                               | -/-/1B.2/<br>MSHCP(b)                               | Perennial herb. Usually in poor soils, often on clay or at the margins of gabbroic rock outcrops in chaparral, coastal sage scrub, and valley and foothill grassland communities. Elevation range: 49–2,591 ft. Blooming period: April–July. | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This species is a Narrow Endemic Plant Species. The City lies outside of the MSHCP survey area for the species (Areas 1, 2, and 10).   |
| Santa Ana River woollystar<br>( <i>Eriastrum densifolium</i> ssp. <i>sanctorum</i> ) | E/E/1B.1/<br>MSHCP                                  | Perennial herb. Sandy to gravelly soil in chaparral and coastal scrub in alluvial fans. Elevation range: 299–2,001 ft. Blooming period: April–September.   | HP  | Suitable habitat is present within the City.<br>MSHCP: This species is fully covered by the MSHCP.  |
| Alvin Meadow bedstraw<br>( <i>Galium californicum</i> ssp. <i>primum</i> )           | -/-/1B.2/<br>MSHCP(f)                               | Perennial herb. Granitic to sandy soil in chaparral and lower montane coniferous forests. Elevation range: 4,428–5,576 ft. Blooming period: May–July.  | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: Considered to be Covered Species Adequately Conserved when a Memorandum of Understanding is executed with the Forest Service that addresses management for these species on Forest Service Land. |
| Palmer’s grapplinghook<br>( <i>Harpagonella palmeri</i> )                            | -/-/4.2/<br>MSHCP                                   | Annual herb. Chaparral, coastal scrub, and valley and foothill grasslands in open grassy areas. Often associated with clay soils. Elevation range: 65–3,130 ft. Blooming period: March–May.  | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This species is fully covered by the MSHCP.  |
| Los Angeles sunflower<br>( <i>Helianthus nuttallii</i> ssp. <i>parishii</i> )        | -/-/1A/-  | Perennial rhizomatous herb. Marshes and swamps (coastal salt and freshwater). Elevation range: 30–5,500 ft. Blooming period: August–October.   | HP  | Potentially suitable habitat is present in the City.  |

| Common/Scientific Name  | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale   |
|---|---|---|---|---|
| mesa horkelia<br>( <i>Horkelia cuneata</i><br>var. <i>puberula</i> )                | -/-/1B.1/-  | Perennial herb. Sandy and gravelly soils within maritime chaparral, cismontane woodland, and coastal scrub. Elevation range: 229–2,657 ft. Blooming period: February–September. | HP  | Potentially suitable habitat is present in the City.  |
| Coulter's goldfields<br>( <i>Lasthenia glabrata</i><br>ssp. <i>coulteri</i> )       | -/-/1B.1/<br>MSHCP(d)                               | Annual herb. Coastal salt marsh, coastal salt swamps, playas, and vernal pools. Elevation range: 3–4,001 ft. Blooming period: February–June.                                    | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: The City lies outside the MSHCP survey area for the species (Criteria Area 1).               |
| Robinson's pepper-grass<br>( <i>Lepidium virginicum</i> var.<br><i>robinsonii</i> ) | -/-/4.3/-   | Annual herb. Openings in chaparral and sage scrub. Elevation range: Below 2,900 ft. Blooming period: January–July.  | HP  | Potentially suitable habitat is present in the City.  |
| Parish's desert-thorn<br>( <i>Lycium parishii</i> )                                 | -/-/2B.3/-  | Perennial shrub. Coastal scrub and Sonoran desert scrub. Elevation range: 440–3,280 ft. Blooming period: March–April.   | HA  | Not expected to occur in the City. The only records of occurrence for the region are from the 1880s.  |
| Parish's bush-mallow<br>( <i>Malacothamnus parishii</i> )                           | -/-/1A/-  | Deciduous shrub. Chaparral and coastal scrub. Elevation range: 1,000–1,500 ft. Blooming period: June–July.  | HP  | Potentially suitable habitat is present in the City.  |
| Pringle's monardella<br>( <i>Monardella pringlei</i> )                              | -/-/1A/-  | Annual herb. Sandy soils in coastal scrub habitat. Elevation range: 984–1,312 ft. Blooming period: May–June.  | HP  | Potentially suitable habitat is present in the City.  |
| little mousetail<br>( <i>Myosurus minimus</i><br>ssp. <i>apus</i> )                 | -/-/3.1/<br>MSHCP(d)                                | Annual herb. Valley and foothill grassland, alkaline vernal pools. Elevation range: 65–2,100 ft. Blooming period: March–June.   | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: The City lies outside the MSHCP survey area for the species (Criteria Areas 1, 2, 3, and 4). |

| Common/Scientific Name   | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale   |
|--|---|---|---|---|
| Gambel's water cress<br>( <i>Nasturtium gambelii</i> )                   | E/T/1B.1/-  | Perennial rhizomatous herb. Freshwater to brackish marshes and swamps. Elevation range: 15–1,200 ft. Blooming period: April–October.  | A   | There are no records of occurrence for this species in Riverside County. As such, this species is considered absent from the City.  |
| spreading navarretia<br>( <i>Navarretia fossalis</i> )                   | T/-/1B.1/<br>MSHCP(b)                               | Annual herb. Associated with vernal pools and depressions and ditches in areas that once supported vernal pools. Elevation range: 98–2,150 ft. Blooming period: April–June.   | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This species is a Narrow Endemic Plant Species. The City lies outside of the MSHCP survey area for the species (Area 3). |
| Brand's star phacelia<br>( <i>Phacelia stellaris</i> )                   | -/-/1B.1/<br>MSHCP(b)                               | Annual herb. Coastal dunes and coastal scrub habitats in sandy openings, sandy benches, dunes, sandy washes, or flood plains of rivers. Restricted to clay soils. Elevation range: 3–1,312 ft. Blooming period: March–June. | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This is a Narrow Endemic Plant Species (Area 7) for the City.  |
| Parish's gooseberry<br>( <i>Ribes divaricatum</i> var. <i>parishii</i> ) | -/-/1A/-  | Perennial deciduous shrub. Riparian woodland. Elevation range: 200–1,000 ft. Blooming period: February–April.   | HP  | Potentially suitable habitat is present in the City.  |
| Coulter's matilija poppy<br>( <i>Romneya coulteri</i> )                  | -/-/4.2/<br>MSHCP                                   | Perennial rhizomatous herb. Chaparral and coastal scrub, often in burned areas. Elevation range: 65–3,936 ft. Blooming period: March–July.  | HP  | Potentially suitable habitat is present in the City.<br>MSHCP: This species is fully covered by the MSHCP.  |
| Gambel's watercress<br>( <i>Rorippa gambellii</i> )                      | E/T/1B.1/-  | Perennial rhizomatous herb. Freshwater or brackish marshes and swamps. Elevation range: 16–1,083 ft. Blooming period: April–October.  | A   | There are no records of occurrence for this species in Riverside County. As such, this species is considered absent from the City.  |
| chaparral ragwort<br>( <i>Senecio aphanactis</i> )                       | -/-/2B.2/-  | Annual herb. Chaparral, cismontane woodland, and coastal scrub. Elevation range: 50–2,620 ft. Blooming period: January–April.   | HP  | Potentially suitable habitat is present in the City.  |

| Common/Scientific Name                                       | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|--|---|---|---|--|
| salt spring checkerbloom<br>( <i>Sidalcea neomexicana</i> )  | -/-/2B.2/-  | Perennial herb. Alkaline and mesic soils within chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub, and playas. Elevation range: 49–5,020 ft. Blooming period: March–June.  | HP  | Potentially suitable habitat is present in the City.                       |
| prairie wedge grass<br>( <i>Sphenopholis obtusata</i> )      | -/-/2B.2/-  | Perennial herb. Mesic soils within cismontane woodland, and meadows and seeps. Elevation range: 984–6,562 ft. Blooming period: April–July.  | HP  | Potentially suitable habitat is present in the City.                       |
| San Bernardino aster<br>( <i>Symphyotrichum defoliatum</i> ) | -/-/1B.2/-  | Perennial rhizomatous herb. Near ditches, streams, and springs in cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, and vernal mesic valley and foothill grassland. Elevation range: 7–6,693 ft. Blooming period: July–November.  | HP  | Potentially suitable habitat is present in the City.                       |
| woven-spored lichen<br>( <i>Texosporium sancti-jacobi</i> )  | -/-/3/-   | Crustose lichen (terricolous). Restricted to occurring on biotic crusts in arid and semi-arid habitats, such as chaparral or on decaying organic matter. Intolerant of disturbed sites. Elevation range: 951–2,165 ft.  | HP  | Potentially suitable habitat is present in the City.                       |
| <b>Invertebrates</b>   |   |   |   |  |
| Crotch bumble bee<br>( <i>Bombus crotchii</i> )              | -/CE/-/-  | Generally inhabits grasslands and scrublands and nests underground. In the winter this species probably inhabits soft, disturbed soil or winters under leaf litter or other loose debris. Utilizes plants in the genera <i>Antirrhinum</i> , <i>Phacelia</i> , <i>Clarkia</i> , <i>Dendromecon</i> , <i>Eschscholzia</i> , and <i>Eriogonum</i> . | HP  | Potentially suitable scrub and grassland habitats are present in the City. |

| Common/Scientific Name   | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|--|---|---|---|--|
| vernal pool fairy shrimp<br>( <i>Branchinecta lynchi</i> )                                 | T/-/-/<br>MSHCP(a)                                  | Restricted to seasonal vernal pools. The vernal pool fairy shrimp prefers cool-water pools that have low to moderate dissolved solids, which are unpredictable, and often short-lived.  | HP  | Potentially suitable habitat is present in pools and depressional features throughout the valley portion of the City.<br>MSHCP: This species is a Wetlands Area and Species-Specific Objectives species. |
| Quino checkerspot butterfly<br>( <i>Euphydryas editha quino</i> ) (=E. e. <i>wrighti</i> ) | E/-/-/<br>MSHCP                                     | Habitat associations seem to be tied to both host plant species and topography. Larvae feed on <i>Plantago erecta</i> , <i>Plantago patagonia</i> , <i>Antirrhinum coulterianum</i> , <i>Cordylanthus rigidus</i> (and possibly other <i>Plantago</i> species), <i>Collinsia concolor</i> , and <i>Castilleja exserta</i> . Adults nectar mostly on small annuals; often occur on open or sparsely vegetated rounded hilltops, ridgelines, and occasionally rocky outcrops. Habitat components have been found in association with, but not restricted to vernal pools, sage scrub, chaparral, native and nonnative grassland, and open oak and juniper woodland communities. The key component seems to be open-canopied habitats. | HP  | Potentially suitable habitat is present in scrub, grassland, and woodland habitats in the valley and lower foothill portions of the City.<br>MSHCP: This species is fully covered by the MSHCP.          |
| Delhi sands flower-loving fly<br>( <i>Rhaphiomidas terminatus abdominalis</i> )            | E/-/-/<br>MSHCP                                     | Found within 12 distinct locations within the cities of Colton, Rialto, and Fontana. Only found in areas with Delhi sands and is typically associated with the following native plants: California buckwheat ( <i>Eriogonum fasciculatum</i> ), telegraph plant ( <i>Heterotheca grandiflora</i> ), and California croton ( <i>Croton californica</i> ). Low tolerance to disturbances.   | A   | Suitable Delhi sand soils are not present within the City.<br>MSHCP: This species is fully covered by the MSHCP.   |

| Common/Scientific Name  | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements   | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale   |
|---|---|--|---|---|
| Riverside fairy shrimp<br>( <i>Streptocephalus woottoni</i> ) | E/-/-/<br>MSHCP(a)                                  | Restricted to deep seasonal vernal pools, vernal pool like ephemeral ponds, and stock ponds and other human modified depressions. Species prefers warm-water pools that have low to moderate dissolved solids, are less predictable, and remain filled for extended periods of time. Basins that support Riverside fairy shrimp are typically dry a portion of the year, but usually are filled by late fall, winter, or spring rains, and may persist through. All known habitat lies within annual grasslands, which may be interspersed through chaparral or coastal sage scrub vegetation. In Riverside County, found in pools formed over the following soils: Murrieta stony clay loams, Las Posas series, Wyman clay loam, and Willows soils. | HP  | Potentially suitable habitat is present in pools and depressional features throughout the valley portion of the City.<br>MSHCP: This species is a Wetlands Area and Species-Specific Objectives species.  |
| <b>Fish</b>   |   |  |   |   |
| Santa Ana sucker<br>( <i>Catostomus santaanae</i> )           | T/-/-/<br>MSHCP                                     | Occurs in stream channels with a mosaic of loose sand, gravel, cobble, and boulder substrates in riffles, runs, pools, and shallow sandy stream margins with cool, running water. Historical range included the Los Angeles, San Gabriel, and Santa Ana river drainage systems in southern California. An introduced population also occurs in the Santa Clara River drainage system.  | HP<br>CH  | Suitable habitat is present in the City within the wetted portions of the Santa Ana River and its tributaries. Known populations occur within portions of the Santa Ana River downstream of the drop structure located south of La Cadena Drive in San Bernardino County. Critical habitat occurs within the City.<br>MSHCP: This species is fully covered under the MSHCP. |

| Common/Scientific Name  | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements   | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale   |
|---|---|--|---|---|
| arroyo chub<br>( <i>Gila orcuttii</i> )   | -/CSC/-/<br>MSHCP                                   | Occurs in perennial streams or intermittent streams with permanent pools and slow water sections of streams with mud or sand substrates. Spawning occurs in pools. Native to Los Angeles, San Gabriel, San Luis Rey, Santa Ana, and Santa Margarita river systems; introduced in Santa Ynez, Santa Maria, Cuyama, and Mojave river systems and smaller coastal streams.                    | HP  | Suitable habitat is present in the City within the wetted portions of the Santa Ana River and its tributaries. MSHCP: This species is fully covered under the MSHCP.                      |
| steelhead,<br>southern California coast distinct population segment<br>( <i>Oncorhynchus mykiss irideus</i> ) | E/CSC/-/-   | An anadromous fish that has physiological tolerances to warm water and changing conditions. Populations known from San Mateo Creek in San Diego County.  | A   | Not expected to occur in the City. Extant populations are not known to occur within the City.   |
| Santa Ana speckled dace<br>( <i>Rhinichthys osculus</i> ssp. 3)   | -/CSC/-/-   | Found in the headwaters of the Santa Ana and San Gabriel river drainages. Occurs in riffles in small streams and shore areas with abundant gravel and rock. Speckled dace occupy many isolated western drainages and have diversified into numerous subspecies, with those in swift water taking on streamlined forms, while those in slower water are relatively chubby and small finned. | HP  | Suitable habitat is present in the City within the wetted portions of the Santa Ana River and its tributaries.  |
| <b>Amphibians</b>   |   |  |   |   |
| western spadefoot<br>( <i>Spea hammondi</i> )   | -/CSC/-/<br>MSHCP                                   | Found primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools and seasonal ponds are essential for breeding and egg laying. It is found at sea level to 4,500 ft. in elevation.  | HP  | Potentially suitable habitat is present in pools and depressional features throughout the valley and foothill portions of the City. MSHCP: This species is fully covered under the MSHCP. |

| Common/Scientific Name  | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|---|---|---|---|--|
| <b>Reptiles</b>   |   |   |   |  |
| southern California legless lizard<br>( <i>Anniella stebbinsi</i> ) | -/CSC/-/-   | Occurs in sandy or loose loamy soils under sparse vegetation in broadleaved upland forest, chaparral, coastal dunes, and coastal scrub. Generally south of the Transverse Range, extending to northwestern Baja California.   | HP  | Potentially suitable habitat is present in scrub and woodland habitats in areas with sandy or loam soils throughout the City.  |
| California glossy snake<br>( <i>Arizona elegans occidentalis</i> )  | -/CSC/-/-   | Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils. Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California. | HP  | Potentially suitable habitat is present in scrub and grassland habitats in areas with sandy or loam soils throughout the City.   |
| coastal whiptail<br>( <i>Aspidoscelis tigris stejnegeri</i> )       | -/CSC/-/<br>MSHCP                                   | Habitats include disturbed coastal sage scrub-chaparral mix and cleared areas of chaparral with a sandy/rocky substrate.  | HP  | Potentially suitable habitat is present in scrub habitats in areas with sandy soils or rocky areas throughout the City.<br>MSHCP: This species is fully covered under the MSHCP.           |
| San Diego banded gecko<br>( <i>Coleonyx variegatus abbotti</i> )    | -/CSC/-/<br>MSHCP                                   | Found in granite or rocky outcrops in coastal scrub and chaparral habitats.   | HP  | Potentially suitable habitat is present in the valley and lower foothill portions of the City in scrub and rock outcrop habitats.<br>MSHCP: This species is fully covered under the MSHCP. |
| red-diamond rattlesnake<br>( <i>Crotalus ruber</i> )                | -/CSC/-/<br>MSHCP                                   | Occurs as far north as Puente Hills in Yorba Linda and as far south as Loreto Baja California, Mexico. Occurs within chaparral, woodland, grassland, and desert areas. Prefers areas with boulders and rock outcrops in areas of heavy brush, such as chamise chaparral.        | HP  | Potentially suitable habitat is present in the valley and lower foothill portions of the City in scrub and grassland habitats.<br>MSHCP: This species is fully covered under the MSHCP.    |

| Common/Scientific Name                                | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale   |
|---|---|---|---|---|
| western pond turtle ( <i>Emys marmorata</i> )         | -/CSC/-/<br>MSHCP                                   | A thoroughly aquatic turtle of ponds, marshes, rivers, streams, and irrigation ditches, usually with aquatic vegetation, below 6,000 ft. elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat for egg-laying.   | HP  | Suitable habitat is present in aquatic habitats in the valley and foothill portions of the City.<br>MSHCP: This species is fully covered under the MSHCP.   |
| coast horned lizard ( <i>Phrynosoma blainvillii</i> ) | -/CSC/-/<br>MSHCP                                   | Found in arid and semi-arid climate conditions in chaparral, coastal sage scrub, primarily below 2,000 ft. in elevation. Critical factors are the presence of loose soils with a high sand fraction; an abundance of native ants or other insects, especially harvester ants ( <i>Pogonomyrmex</i> spp.); and the availability of both sunny basking spots and dense cover for refuge.  | HP  | Potentially suitable habitat is present in scrub habitats in areas with loose, sandy soils and harvester ants throughout the valley and foothill portions of the City.<br>MSHCP: This species is fully covered under the MSHCP. |
| <b>Birds</b>  |   |   |   |   |
| tricolored blackbird ( <i>Agelaius tricolor</i> )     | -/CT/-/<br>MSHCP                                    | Nests in dense colonies near freshwater in marshes with emergent wetland vegetation (e.g., cattails, tules). Will occasionally nest in moist thickets (e.g., blackberry, willow, rose) in agricultural fields or sewage treatment plants. Forages in grassland and cropland habitats. Range is restricted to the Central Valley and surrounding foothills, throughout coastal and some inland localities in southern California, and scattered sites in Oregon, western Nevada, central Washington, and western coastal Baja California. Breed in dense colonies and may travel several kilometers to secure food for their nestlings. They are itinerant breeders, nesting more than once at different locations during the breeding season. | HP  | Suitable habitat occurs in marshes and other ponded areas containing emergent vegetation and thickets throughout the valley and foothill portions of the City.<br>MSHCP: This species is fully covered under the MSHCP.         |

| Common/Scientific Name                         | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|--|---|---|---|--|
| long-eared owl<br>( <i>Asio otus</i> )         | -/CSC/-/-   | In southern California, the species breeds and roosts in riparian and oak forests, and hunts small mammals at night in adjacent open habitats; known to breed at several dozen locales in San Diego County and possibly Orange County, and probably do so in smaller numbers in other coastal southern California counties as well. Species is sensitive to man-made disturbances, in particular night lighting. Foraging lands need to be rodent rich and relatively close to roosting and/or nesting habitat.   | HP  | Potentially suitable habitat is present in riparian, oak woodland, and open habitats in undisturbed areas throughout the valley and foothill portions of the City.   |
| burrowing owl<br>( <i>Athene cunicularia</i> ) | -/CSC/-/<br>MSHCP(c)                                | Inhabits open, dry, nearly or quite level, grassland, prairie, desert floor, and shrubland with relatively low cover. In coastal southern California, a substantial fraction of birds are found in microhabitats highly altered by man, including flood control and irrigation basins, dikes, and banks, abandoned fields surrounded by agriculture, and road cuts and margins. Strong association with burrowing mammals, especially ground squirrels ( <i>Spermophilus</i> spp.); however they will also occupy man-made niches such as banks and ditches, piles of broken concrete, and even abandoned structures. | HP  | Suitable habitat is present throughout the valley and foothill portions of the City.<br>MSHCP: The City occurs within the MSHCP Survey Area for this species.  |
| Swainson's hawk<br>( <i>Buteo swainsoni</i> )  | -/T/-/<br>MSHCP                                     | Suitable breeding habitat consists of areas containing Joshua trees, Fremont cottonwoods, or other large trees located adjacent to open fields, including agricultural fields. Forages in open desert, grasslands, agricultural fields, or livestock pastures. In most of southern California, this species is now limited to a spring and fall transient, with known breeding populations currently isolated to the Antelope Valley in Los Angeles and Kern counties.  | HP  | Potential suitable foraging habitat is present in open areas in the valley and foothill portions of the City. This species is not expected to breed within the City; all nesting records for the region are from the late 1800s and early 1900s.<br>MSHCP: This species is fully covered by the MSHCP. |

| Common/Scientific Name  | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements   | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale   |
|---|---|--|---|---|
| western yellow-billed cuckoo<br>( <i>Coccyzus americanus occidentalis</i> ) | T/E/-/<br>MSHCP(a)                                  | Breeds and nests in extensive stands of dense, mature cottonwood/willow riparian forest along broad, lower flood bottoms of larger river systems at scattered locales in western North America. Requires large stands of riparian woodland for nesting sites, typically in excess of 300 ft. in width and 25 acres in area.  | HA  | Suitable dense, large mature stands of riparian habitats are not present within the City.<br>MSHCP: This species is a Riparian/Riverine Area and Species-Specific Objectives species.   |
| yellow rail<br>( <i>Coturnicops noveboracensis</i> )                        | -/CSC/-/-   | Found in shallow marshes and wet meadows. During the winter, they are found in drier fresh-water and brackish marshes and deep grass and rice fields.  | A   | Not expected to occur in the City. Although suitable habitat is present, the City is outside of the current known range of the species; the only known record of occurrence within the City is from the early 1900s and the area has since been converted to residential development. |
| white-tailed kite<br>( <i>Elanus leucurus</i> )                             | -/FP/-/<br>MSHCP                                    | Species hunts in open country. This is a strongly lowland species, apparently rare anywhere in California above 2,000 ft. Nests are flimsy and are located low in trees and large shrubs near foraging areas in savannahs and at edges between open habitat and woodland or forest areas. Its diet is largely restricted to small mammals such as voles and mice.  | HP  | Potentially suitable breeding and foraging habitat is present in the undeveloped, open natural areas in the valley and foothill portions of the City.<br>MSHCP: This species is fully covered under the MSHCP.  |
| southwestern willow flycatcher<br>( <i>Empidonax traillii extimus</i> )     | E/E/-/<br>MSHCP(a)                                  | Highly restricted distribution in southern California as a breeder. Occupies extensive riparian forests, wet meadows, and lower montane riparian habitats primarily below 4,000 ft. Occurs in riparian habitats along rivers, streams, or other wetlands, where dense growths of willows ( <i>Salix</i> spp.), <i>Baccharis</i> spp., arrowweed ( <i>Pluchea</i> spp.), buttonbush ( <i>Cephalanthus</i> spp.), tamarisk ( <i>Tamarix</i> spp.), Russian olive ( <i>Eleagnus</i> spp.) are present, often with a scattered overstory of cottonwood ( <i>Populus</i> spp.). | HP  | Suitable habitat is present in riparian habitats throughout the City.<br>MSHCP: This species is a Riparian/Riverine Area and Species-Specific Objectives species.   |

| Common/Scientific Name  | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|---|---|---|---|--|
| bald eagle<br>( <i>Haliaeetus leucocephalus</i> )                       | D/E, FP/-/<br>MSHCP                                 | Primarily occurs in or near seacoasts, rivers, swamps, and large lakes. Nests in large, old-growth or dominant live trees with open branches, especially ponderosa pine, typically within one mile of water. Eats mainly fish and carrion, and formerly nested locally along the coast of southern California. This species is a localized winter resident and rare migrant, with only very rare breeding efforts in coastal southern California (e.g., Lake Skinner, Riverside County).    | A   | Suitable foraging, nesting, and wintering habitat is not present within the City.<br>MSHCP: This species is fully covered under the MSHCP.   |
| yellow-breasted chat ( <i>Icteria virens</i> )                          | -/CSC/-/<br>MSHCP                                   | Nests in low thickets in dense riparian habitats. It is a local and uncommon breeder and rare migrant across southern California.   | HP  | Suitable habitat is present in riparian habitats throughout the City.<br>MSHCP: This species is fully covered under the MSHCP.   |
| loggerhead shrike<br>( <i>Lanius ludovicianus</i> )                     | -/CSC/-/<br>MSHCP                                   | Found as a common resident and winter visitor throughout California in lowland and foothill habitats, where it frequents open areas with sparse shrubs and trees.   | HP  | Suitable habitat is present in undeveloped areas throughout the valley and foothill portions of the City.<br>MSHCP: This species is fully covered under the MSHCP.   |
| California black rail<br>( <i>Laterallus jamaicensis coturniculus</i> ) | -/E, FP/-/-   | Found in salt marshes, freshwater marshes, and wet meadows. Requires water depths of about 1 inch that do not fluctuate and dense vegetation for nesting. Most California populations, especially in the southern part of the state, are nonmigratory, and these habitat types serve for breeding, foraging, and overwintering. In tidal areas, also requires dense cover of upland vegetation to provide protection from predators when rails must leave marsh habitats during high tides. | A   | Not expected to occur in the City. Although suitable habitat is present, the City is outside of the current known range of the species; all records of occurrence within the City are from the late 1800s and early 1900s. |

| Common/Scientific Name  | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|---|---|---|---|--|
| coastal California gnatcatcher<br>( <i>Polioptila californica californica</i> ) | T/CSC/-/<br>MSHCP                                   | Year-round obligate resident of coastal sage scrub vegetation on mesas, arid hillsides, and in washes. Nests almost exclusively in California sagebrush ( <i>Artemisia californica</i> ). Nest placement is typically in areas with less than 40 percent slope gradient. Occurs in low-lying foothills and valleys in cismontane southwestern California and Baja California. Monogamous pairs tend to stay in the same locale.                     | HP  | Suitable habitat is present in scrub habitats in the valley and foothill portions of the City.<br>MSHCP: This species is fully covered under the MSHCP.  |
| yellow warbler<br>( <i>Setophaga petechia</i> )                                 | -/CSC/-/<br>MSHCP                                   | Nests in the upper story of riparian habitats in southern California. It is also a common, widespread migrant in spring and fall, occupying a wide variety of habitats at that time.  | HP  | Suitable habitat is present in riparian habitats throughout the City.<br>MSHCP: This species is fully covered under the MSHCP.   |
| least Bell's vireo<br>( <i>Vireo bellii pusillus</i> )                          | E/E/-/<br>MSHCP(a)                                  | Found as a summer resident of southern California where it inhabits low riparian growth in the vicinity of water or in dry river bottoms below 2,000 ft. Species selects dense vegetation low in riparian zones for nesting; most frequently located in riparian stands between 5 and 10 years old; when mature riparian woodland is selected, vireos nest in areas with a substantial robust understory of willows as well as other plant species. | HP<br>CH  | Suitable habitat is present in riparian habitats throughout the City. Critical habitat occurs within the City.<br>MSHCP: This species is a Riparian/Riverine Area and Species-Specific Objectives species. |
| <b>Mammals</b>  |   |   |   |  |
| northwestern San Diego pocket mouse<br>( <i>Chaetodipus fallax fallax</i> )     | -/CSC/-/<br>MSHCP                                   | Sandy herbaceous areas, usually in association with rocks and coarse gravel in southwest California; coastal and desert border areas in San Bernardino, Riverside, and San Diego counties. Elevation ranges from sea level to 6,000 ft. Vegetation community preferences include sage scrub, chamise-redshank chaparral, mixed chaparral, sage brush, desert wash, desert scrub, desert succulent scrub, pinyon-juniper, and annual grassland.      | HP  | Suitable habitat is present in the Santa Ana River floodplain portion of the City.<br>MSHCP: This species is fully covered by the MSHCP.   |

| Common/Scientific Name  | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements   | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale  |
|---|---|--|---|--|
| San Bernardino kangaroo rat<br>( <i>Dipodomys merriami parvus</i> ) | E/CSC/-/<br>MSHCP(c)                                | Prefers soils of sandy loam, occasionally to sandy gravel, in open to moderately shrubby habitats, especially intermediate seral stages of alluvial fan sage scrub up to 1,970 ft. from active channels.   | HP  | Suitable habitat is present within alluvial scrub habitats in the Santa Ana River floodplain portions of the City.<br>MSHCP: The City lies outside of the MSHCP survey area for the species. |
| Stephens' kangaroo rat<br>( <i>Dipodomys stephensi</i> )            | E/T/-/<br>MSHCP                                     | Found almost exclusively in open grasslands or sparse shrublands with cover of less than 50% during the summer. Species avoids dense grasses and are more likely to inhabit areas where the annual forbs disarticulate in the summer and leave more open areas. Tends to avoid rocky soils. Tends to use flatter slopes (i.e., < 30%), but may be found on steeper slopes in trace densities.  | HP  | Potentially suitable habitat is present in scrub and shrubland areas in the valley and foothill portions of the City.<br>MSHCP: This species is fully covered by the MSHCP.                  |
| western mastiff bat<br>( <i>Eumops perotis californicus</i> )       | -/CSC/-/-   | Occurs in many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, and chaparral. Roosts in the crevices in vertical cliff faces, high buildings, and tunnels and travels widely when foraging. Roosts may be communal (up to 100 individuals) or solitary. This species appears to not migrate, but performs seasonal movements.  | HP  | Potentially suitable foraging habitat is present throughout the City. No suitable roosting cliff habitat is present.   |
| western yellow bat<br>( <i>Lasiurus xanthinus</i> )                 | -/CSC/-/-   | Associated with water features in open grassy areas and scrub, as well as canyon and riparian situations. Thought to be non-colonial. Individuals usually roost in trees, hanging from the underside of a leaf and are commonly found in the southwestern U.S. roosting in the skirt of dead fronds in both native and non-native palm trees. Some populations may be migratory, although some individuals appear to be present year-round. Species probably does not hibernate. | HP  | Suitable roosting and foraging habitat is present in riparian habitats and areas containing palm trees throughout the City.  |

| Common/Scientific Name   | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent | Rationale   |
|--|---|---|---|---|
| San Diego black-tailed jackrabbit<br>( <i>Lepus californicus bennettii</i> ) | -/CSC/-/<br>MSHCP                                   | Common throughout California except at high elevations. Occurs in herbaceous and desert shrub areas, sage scrub, grasslands, open chaparral and woodland/forest areas. Relatively disturbance tolerant.   | HP  | Suitable habitat is present throughout the valley and foothill portions of the City.<br>MSHCP: This species is fully covered by the MSHCP.  |
| San Diego desert woodrat<br>( <i>Neotoma bryanti intermedia</i> )            | -/CSC/-/<br>MSHCP                                   | Dry and/or sunny shrublands, especially (but not requiring) areas with cacti and abundant rocks and crevices. Does not require a source of drinking water. Sage scrub communities are frequently occupied.  | HP  | Suitable habitat is present throughout the scrub and shrubland portions of the City.<br>MSHCP: This species is fully covered by the MSHCP.  |
| pocketed free-tailed bat<br>( <i>Nyctinomops femorosaccus</i> )              | -/CSC/-/-   | Found rarely in southwestern California; found in southeastern deserts of California, with portions of western Riverside County apparently on the periphery of their range. Occurs in a variety of arid areas, including pine-juniper woodlands, desert oasis, desert wash, and desert riparian. Roosts in high rock cliffs, crevices, and rock outcrops. Forages primarily on large moths, especially over water. Found from the southwestern United States to central Mexico. | HP  | Potentially suitable foraging habitat is present in woodland and scrub areas of the City. No suitable roosting cliff habitat is present.  |
| southern grasshopper mouse<br>( <i>Onychomys torridus ramona</i> )           | -/CSC/-/-   | Wide variety of dry to moderately dry scrub, grassland, and woodland habitats across southern California, exclusive of the more mesic coastal areas from Ventura County north.  | HP  | Potentially suitable habitat is present in grassland, scrub, and woodland areas of the valley and foothill portions of the City.  |
| Los Angeles pocket mouse<br>( <i>Perognathus longimembris brevinasus</i> )   | -/CSC/-/<br>MSHCP(c)                                | Habitat requirements for this subspecies are poorly known; it inhabits areas of open ground, prefers fine sandy soils (for burrowing), but is also found commonly on gravel washes and on stony soils, within brush and woodland habitats. It is rarely found on sites with a high cover of rocks.  | HP  | Potentially suitable habitat is present in scrub and woodland habitats in the valley and foothill portions of the City.<br>MSHCP: The City lies outside of the MSHCP survey area for the species. |

| Common/Scientific Name                      | Status <sup>a</sup><br>FED/STATE/<br>CNPS/<br>MSHCP | Species Requirements  | Specific Habitat <sup>b</sup><br>Present/<br>Absent   | Rationale  |
|---|---|---|---|--|
| American badger<br>( <i>Taxidea taxus</i> ) | -/CSC/-/-   | Associated with large grassland and sparse sage scrub habitats. Most abundant in drier open stages of most shrub, forest, and herbaceous habitats. Occupies large dens/burrows and requires friable soils for digging dens. | HP  | Potentially suitable habitat is present in undeveloped natural areas with friable soils throughout the City. |
| <b><sup>a</sup> Status Codes</b>            |   | <b>California Rare Plant Rank (CRPR)</b>  | <b><sup>b</sup>Habitat Presence/Absence Codes*</b>  |  |
| Federal                                     |   | 1A = Plants presumed extinct in California  | HP = Habitat is or may be present. The species may be present.  |  |
| E = Federally listed; Endangered            |   | 1B = Plants rare, threatened, or endangered in California and elsewhere   | HA = No habitat is present and the species is not expected to occur.  |  |
| T = Federally listed; Threatened            |   | 2 = Plants rare, threatened, or endangered in California, but more common elsewhere   | A = Species is absent based on known range or records of occurrence.  |  |
| D = Delisted                                |   | 3 = Plants about which we need more information   | CH = Critical habitat is present.   |  |
| State                                       |   | 4 = Limited distribution (Watch List)   | <i>*Because focused surveys for special-status species were not performed for this project, only potential habitat was assessed (rather than species presence/absence).</i> |  |
| E = State listed; Endangered                |   | 0.1 = Seriously endangered in California  |   |  |
| T = State listed; Threatened                |   | 0.2 = Fairly endangered in California   |   |  |
| C = State candidate                         |   | 0.3 = Not very endangered in California   |   |  |
| CSC = California Species of Special Concern |   | WRC MSHCP   |   |  |
| FP = California Fully Protected Species     |   | WRC MSHCP = No additional action necessary  |   |  |
|   |   | WRC MSHCP(a) = Surveys may be required as part of wetlands mapping  |   |  |
|   |   | WRC MSHCP(b) = Surveys may be required within the Narrow Endemic Plant Species survey area  |   |  |
|   |   | WRC MSHCP(c) = Surveys may be required within locations shown on survey maps  |   |  |
|   |   | WRC MSHCP(d) = Surveys may be required within Criteria Area   |   |  |
|   |   | WRC MSHCP(e) = Conservation requirements identified in species-specific conservation objectives need to be met before classified as a Covered Species   |   |  |
|   |   | WRC MSHCP(f) = Covered Species when a Memorandum of Understanding is executed with the Forest Service Land  |   |  |

Appendix E  
**Locations Where Opportunity Site Is Present at  
Historical Resources**

---



# Appendix E

## Locations Where Opportunity Site Is Present at Historical Resources

---

The following table lists historical resources that encompass an Opportunity Site. It also lists historical resources that are within the Innovation District and Downtown Specific Plan boundaries but are not specifically listed in the Opportunity Sites Inventory. Note that properties within surveyed areas are not subject to Certificates of Appropriateness, unless the property was determined eligible for designation.

**Table CUL1-1. Locations Where Opportunity Site Is Present at Historical Resource**

| Type of Resource                             | Resource Name                         |
|--|---------------------------------------|
| <b>Historic District (6)</b>                 |                                       |
| Evergreen Quarter                            | Prospect Place Historic District      |
| Heritage Square Historic District            | Seventh Street East Historic District |
| Mission Inn Historic District                | Seventh Street Historic District      |
| <b>Historic District Potential (1)</b>       |                                       |
| Citrus Thematic Industrial                   |                                       |
| <b>Landmarks (51)</b>                        |                                       |
| 1st Christian Church Parsonage               | Grant School                          |
| Alkire House                                 | J. R. Willis Building                 |
| Arcade Building                              | John J. Hewitt House                  |
| Aurea Vista Hotel                            | John W. North Park                    |
| Benjamin Rockhold Family House               | Lerner Building                       |
| Bobby Bonds Residence                        | Loring Building                       |
| Bonnett Building                             | Mission Inn                           |
| Chinatown Site                               | McIntyre House                        |
| Collier House                                | Mitchell House                        |
| Collins-Seaton House                         | Old City Hall                         |
| Cressman House                               | Residence                             |
| De Anza Statue and Newman Park               | Riverside Art Museum                  |
| E.T. Wall Packing House                      | Riverside County Courthouse           |
| Fairmount Park                               | Riverside Municipal Auditorium        |
| Farm House Motel                             | Riverside Municipal Museum            |
| First Church of Christ, Scientist            | Santa Fe Depot                        |
| First Congregational Church                  | The Roosevelt Building                |
| Food Manufacturing Corporation Site          | The Tetley Buildings                  |
| Former 1st United Brethren Church            | Union Pacific Depot                   |
| Former MH Simons Undertaking Chapel          | Universalist Unitarian Church         |
| Former Rouse's Department Store              | Waite House                           |
| Former University Heights Junior High School | Ward House                            |
| Former Y.M.C.A. Building                     | Weber House                           |
| Harada House                                 | White Park Building                   |

| Type of Resource                 | Resource Name        |                      |
|----------------------------------|----------------------|----------------------|
| Historic Library                 |                      | White Park           |
| Irving School                    |                      |                      |
| <b>Structures of Merit (373)</b> |                      |                      |
| 1734 Seventh St.                 | 3170 Orange St.      | 3432 Franklin Ave.   |
| 1751 Third St                    | 3171 Ninth St.       | 3434 Lemon St.       |
| 1821 Tenth St.                   | 3172-78 Lemon St     | 3435 First St.       |
| 1824 Enterprise Ave.             | 3173 Lime St.        | 3435 Lime St.        |
| 1835 Pennsylvania Ave            | 3174 Mulberry St.    | 3436 Fourth St.      |
| 2008 Patterson St.               | 3188 Orange St.      | 3438-40 Mulberry St. |
| 2009 Patterson St.               | 3189-95 Mulberry St. | 3439 Fifth St        |
| 2028 Eleventh                    | 3190 Lemon St.       | 3441 Mulberry St.    |
| 2037 Patterson St.               | 3190 Mulberry St.    | 3442 First St.       |
| 2038 Eleventh                    | 3191 Lemon St.       | 3442 Lime St.        |
| 2039 University Ave.             | 3191 Seventh St.     | 3442 Third St.       |
| 2060 Seventh St.                 | 3194-96 Lime St.     | 3443 Fifth St        |
| 2070 Patterson St.               | 3195 Lime St.        | 3443-45 First St.    |
| 2072 Seventh St.                 | 3197 First St.       | 3444 Second St.      |
| 2082 Seventh St.                 | 3205-09 Mulberry     | 3444 Sixth St.       |
| 2125 Seventh St.                 | 3208 Mulberry St.    | 3445 Fourth St.      |
| 2210 Seventh St.                 | 3210 Orange St.      | 3449 First St.       |
| 2211 Sixth St.                   | 3215 Lemon St.       | 3449 Fourth St.      |
| 2226 Seventh St.                 | 3224 Lemon St.       | 3450 First St.       |
| 2243 Fifth St.                   | 3225 Lime St.        | 3451 Fifth St.       |
| 2258 Fifth St.                   | 3226 Mulberry St.    | 3451 Lime St.        |
| 2291 Twelfth St.                 | 3229 Lemon St.       | 3452 Lemon St.       |
| 2310 Seventh St.                 | 3229 Mulberry St.    | 3452 Mulberry St.    |
| 2315 Seventh St.                 | 3234 Orange St.      | 3452 University Ave. |
| 2334 Seventh St.                 | 3235 Lemon St.       | 3457 Mulberry St.    |
| 2335 Seventh St.                 | 3244 Lemon St.       | 3460 Lime St.        |
| 2351 Seventh St.                 | 3245 Lemon St.       | 3461 Third St        |
| 2367 Seventh St.                 | 3245 Lime St.        | 3464 Third St.       |
| 2389 Seventh St.                 | 3246-54 Mulberry St. | 3465 Third St.       |
| 2409 Seventh St.                 | 3252 Seventh St      | 3466 University Ave. |
| 2418 Seventh St.                 | 3254 Orange St.      | 3468 Lemon St.       |
| 2429 Seventh St.                 | 3255 Lime St.        | 3468-70 Second St.   |
| 2433 Tenth St.                   | 3255 Mulberry Ave.   | 3470 Fourth St.      |
| 2450 Seventh St.                 | 3258 Lemon St.       | 3475 Lime St.        |
| 2459 Seventh St.                 | 3259 Orange St.      | 3475 Mulberry St.    |
| 2490 Seventh St.                 | 3266 Lime St.        | 3476 Third St.       |
| 2516-18 Seventh St               | 3266 Mulberry St.    | 3478 Lemon St.       |
| 2517 Seventh St.                 | 3269 Mulberry St.    | 3488 Second St.      |
| 2543 Lime St.                    | 3270 Mulberry St.    | 3490 Kansas Ave.     |
| 2551 Seventh St.                 | 3273 Orange St.      | 3490 Lime St.        |
| 2562 University Ave.             | 3274 Lemon St.       | 3491 Mulberry St.    |
| 2582 Seventh St.                 | 3275 Lemon St.       | 3492 Third St.       |
| 2583 Seventh St.                 | 3275 Lime St.        | 3495 First St.       |

| Type of Resource     | Resource Name           |                         |
|----------------------|-------------------------|-------------------------|
| 2583 Sixth St.       | 3276 Lime St.           | 3495 Lime St.           |
| 2586 University Ave. | 3284 Orange St.         | 3503-05 First St.       |
| 2616 Seventh St.     | 3285 Lemon St.          | 3506-34 Ninth St        |
| 2617 Seventh St.     | 3290 Lemon St.          | 3507-09 First St        |
| 2625 Sixth St.       | 3294 Mulberry St.       | 3515-17 First St        |
| 2650 Seventh St.     | 3296 Lime St.           | 3521-57 Main St         |
| 2651-53 Eleventh St. | 3299 Lime St.           | 3524 Kansas Ave.        |
| 2682 Orange St.      | 3303 Mulberry St.       | 3525 Mission Inn Ave    |
| 2682 Seventh St.     | 3306 Mulberry           | 3532-38 University Ave. |
| 2683 Seventh St.     | 3309-11 Lime St.        | 3533 Third St.          |
| 2691 Orange St.      | 3310 Lime St.           | 3535-45 University Ave  |
| 2691 Twelfth St.     | 3311 Lemon St.          | 3544 University Ave.    |
| 2709 Orange St.      | 3314 Orange St.         | 3545 Third St.          |
| 2716-18 Seventh St.  | 3315 Third St.          | 3546 Second St.         |
| 2717 Seventh St.     | 3321-27 Lemon St.       | 3546 Third St           |
| 2726 Fifth St.       | 3322 Mulberry St.       | 3550-60 University Ave  |
| 2726 Sixth St.       | 3324-28 Lime St.        | 3557 First St.          |
| 2743 Orange St.      | 3325 Mulberry St.       | 3557 University Ave.    |
| 2750 Orange St.      | 3326 Lemon St.          | 3558 Third St.          |
| 2750 Seventh St.     | 3329 Lime St.           | 3563-77 Main St         |
| 2751 Seventh St.     | 3332 Orange St.         | 3567 Comer Ave.         |
| 2782 Seventh St.     | 3332 Second St          | 3570 Second St.         |
| 2783 Seventh St.     | 3335 Third St.          | 3575 First St.          |
| 2801 Fourth St.      | 3336 Mulberry St.       | 3575-81 University Ave. |
| 2811 Twelfth St.     | 3339 First St.          | 3580-82 Main St.        |
| 2817 Seventh St.     | 3339 Mulberry St.       | 3585-95 Main St         |
| 2826 Eleventh St.    | 3342 Lemon St.          | 3587 University Ave.    |
| 2826 Sixth St.       | 3342 Lime St.           | 3591 First St.          |
| 2850 Seventh St.     | 3343 Lime St.           | 3594-98 Main St.        |
| 2851 Seventh St.     | 3343-49 Fourth          | 3595 University Ave.    |
| 2851 University Ave. | 3348-50 Mulberry St.    | 3596 Commerce St.       |
| 2875 Fifth St.       | 3349 Third St.          | 3597 Main St.           |
| 2879 Main St.        | 3350 Second St          | 3610 Eleventh St        |
| 2882 Seventh St.     | 3353-57 Lemon St.       | 3615 Main St            |
| 2883 Seventh St.     | 3353-59 Fourth St       | 3631-39 University Ave  |
| 2909 Seventh St.     | 3354 Orange St.         | 3637 Lime St.           |
| 2931 Twelfth St.     | 3355-57 University Ave. | 3637-49 Ninth St.       |
| 2933 Fourth St.      | 3355-73 Second St.      | 3642 University Ave.    |
| 2934 Seventh St.     | 3356 Lemon St.          | 3642-46 Seventh St.     |
| 2944 Seventh St.     | 3357 Lime St.           | 3643 University Ave.    |
| 2945 Seventh St.     | 3359 Mulberry St.       | 3651 Third St.          |
| 2956 Seventh St.     | 3359 Third St           | 3657 Lemon St.          |
| 2957 Seventh St.     | 3359-63 Lemon St.       | 3658-68 Market St       |
| 2973 Mulberry St.    | 3360 Lime St.           | 3681-89 Sixth St        |
| 2974 Lime St.        | 3362 Mulberry St.       | 3691 Kansas Ave.        |
| 2981 Seventh St.     | 3362 Second St.         | 3696 Franklin Ave       |

| Type of Resource   | Resource Name        |                                   |
|--------------------|----------------------|-----------------------------------|
| 2983 Seventh St    | 3368-70 Lemon        | 3720 Main St                      |
| 2993 Seventh St.   | 3369 Lemon St.       | 3720-36 Main St.                  |
| 3021 Lime St.      | 3369 Third St        | 3724 Franklin Ave.                |
| 3021 Mulberry St.  | 3370 First St.       | 3734 Spruce St.                   |
| 3035 Mulberry St.  | 3370 Orange St.      | 3737-41 Sixth St                  |
| 3049 Mulberry St.  | 3374 Lime St.        | 3750 Main St.                     |
| 3050 Orange St     | 3375 Lime St.        | 3750 Santa Fe Ave.                |
| 3063 Lime St.      | 3379 Holding St.     | 3753 Eucalyptus Ave.              |
| 3063 Mulberry St.  | 3380 Second St.      | 3755 Lemon St.                    |
| 3106-08 Lemon St.  | 3381 Seventh St      | 3757-91 Seventh St                |
| 3108 Lime St.      | 3382 Mulberry St.    | 3760-78 Ninth St.                 |
| 3109 Lemon St.     | 3383-85 Second St.   | 3761-75 Tenth St.                 |
| 3112 Orange St.    | 3385 Lemon St.       | 3768-70 Orange St                 |
| 3124 Lemon St.     | 3387-89 Mulberry St. | 3797 Tenth St./3970-76 Market St. |
| 3124 Lime St.      | 3390 Lime St.        |                                   |
| 3125-27 Main St    | 3390 Orange St       | 3800 Main St.                     |
| 3125-29 Lemon St   | 3390 University Ave. | 3824 Main St.                     |
| 3128 Mulberry St.  | 3391-97 Seventh St   | 3834-50 Main St                   |
| 3139-41 Lime St    | 3392-98 Lemon St.    | 3866 Main St.                     |
| 3140 Lime St.      | 3394 Mulberry St.    | 3890 Orange St.                   |
| 3140-42 Lemon St.  | 3395 Mulberry St.    | 3901-31 Orange St                 |
| 3140-42 Orange St. | 3396 Second St       | 4001 Main St.                     |
| 3141 Main St.      | 3406 Mulberry St.    | 4015-23 Main St.                  |
| 3142 Mulberry St.  | 3406-08 Lemon St.    | 4049-53 Main St.                  |
| 3145 Lemon St.     | 3408-10 First St.    | 4094 Brockton Ave.                |
| 3150 Lime St.      | 3409 Lime St.        | 4135 Market St.                   |
| 3154 Orange St.    | 3410 Lime St.        | 4205 Lemon St                     |
| 3156 Mulberry St.  | 3414 Sixth St        | 4290 Brockton Ave.                |
| 3157 Lime St.      | 3418-20 Lemon St.    | 4308 Lime St.                     |
| 3157 Mulberry St.  | 3421-23 Lime St.     | 4310 Orange St                    |
| 3157-59 Lemon      | 3423 First St        | 4324 Lime St.                     |
| 3158 Lemon St.     | 3425 Seventh St      | 4479 Chicago Ave.                 |
| 3159 Main St.      | 3426 Lime St.        | 4495 Magnolia Ave                 |
| 3160 Lime St.      | 3428 Mulberry St.    | 4565 Mulberry St.                 |
| 3167 Main St.      | 3428 Sixth St        | 4624 Olivewood Ave.               |
| 3169 Lemon St.     |                      | Lewis H Guffin House              |

| <b>National Register Sites (16)</b>          |   |
|--|---|
| All Souls Universalist-Unit. Church          | Mission Court Bungalows                 |
| Chinatown Site                               | Mission Inn/Agua Mansa Bell             |
| First Church of Christ, Scientist            | Old YWCA Building                       |
| First Congregational Church                  | Riverside Municipal Auditorium          |
| Former MH Simons Undertaking Chapel          | Riverside Municipal Museum              |
| Former University Heights Junior High School | Riverside-Arlington Hts. Fruit Exchange |
| Harada House                                 | Sutherland Fruit Company                |
| Masonic Temple (Demolished)                  | Union Pacific Depot                     |

| Type of Resource                                 | Resource Name                 |
|--|-------------------------------|
| <b>Neighborhood Conservation Areas (NCA) (2)</b> |                               |
| Old Magnolia Avenue NCA                          | St. Andrews Terraces NCA      |
| <b>Surveyed Areas (10)</b>                       |                               |
| Camp Anza (Original Boundary)                    | Northside Reconnaissance      |
| La Sierra (Five Points)                          | I-215 Improvement             |
| Arlington  | Brockton Arcade               |
| Casa Blanca                                      | University Avenue             |
| Eastside Community                               | Camp Anza (Concentrated Area) |



Appendix F

**Consistency Analysis with Relevant Plans and Policies**

---



## Appendix F

# Consistency Analysis with Relevant Plans and Policies

**Table F-1. Consistency of the Project with SCAG Goals and Policies**

| Goal Number   | 2020–2045 RTP/SCS Goals, Principles, and Strategies                                       | Consistency Analysis  |
|---------------|---|---|
| <b>Goal 1</b> | Encourage regional economic prosperity and global competitiveness.                        | <b>Consistent.</b> Project implementation would allow for future development and would therefore improve regional economic development through the provision of new jobs. Therefore, the Project would be consistent with this goal.  |
| <b>Goal 2</b> | Improve mobility, accessibility, reliability, and travel safety for people and goods.     | <b>Consistent.</b> As concluded in Section 3.12, <i>Transportation</i> , the Project would be consistent with goals related to housing and public safety objectives. Future development would comply with GP 2025 polices, which maximize mobility and accessibility. GP 2025 Policies LU-8.1, LU-8.3, and AQ-8.23 promote infill development, mixed-use development, and higher density/mixed-use developments. The future development would include multi-family and mixed uses (residential and commercial) in compliance with these policies. GP 2025 also contains public transportation and alternative transportation modes. Future development must comply with all SCAQMD and Riverside County Transportation Commission TDM programs, and future development residents, employees, and other users would be provided ample opportunities to use the City’s public transportation system and bicycle network; see Section 3.12, <i>Transportation</i> .<br><br>To further ensure travel safety and reliability, all future development would be subject to compliance with GP 2025 Policies CCM-1.1, CCM-1.2, CCM-1.3, CCM-1.4, and CCM-7.1. Compliance with the regulatory standards and GP 2025 policies discussed above would ensure the Project would not substantially increase hazards due to a design feature (e.g., circulation system improvement), thus ensuring travel safety and reliability. Therefore, the Project would be consistent with this goal. |
| <b>Goal 3</b> | Enhance the preservation, security, and resilience of the regional transportation system. | <b>Consistent.</b> In furtherance of this goal, the Project would result in less-than-significant impacts on Congestion Management Program roadway segments with mitigation incorporated under Section 3.12.5 of this Draft EIR. The future development would comply with GP 2025 polices, which maximize mobility and accessibility in the City. Therefore, the Project would be consistent with this goal.  |
| <b>Goal 4</b> | Increase person and goods movement and travel choices within the transportation system.   | <b>Consistent.</b> Refer to discussion of RTP/SCS Goal 2 and Goal 3. The Project would comply with this goal.   |

| Goal Number    | 2020–2045 RTP/SCS Goals, Principles, and Strategies  | Consistency Analysis  |
|----------------|--|---|
| <b>Goal 5</b>  | Reduce greenhouse gas emissions and improve air quality.   | <b>Consistent.</b> Refer to discussion of RTP/SCS Goal 2. Additionally, the Project would rezone land to allow for fulfilment of the City’s RHNA. The Project’s proposed rezoning effort would involve the potential addition of 11,333,238 square feet of mixed-use development throughout the City; see Table 2-3, <i>Potential Development in Mixed-Use Zones</i> , and Table 2-4, <i>Total Residential and Non-Residential Development in Mixed-Use Zones by Ward</i> , in Chapter 2, <i>Project Description</i> . Mixed-use development patterns facilitate a pedestrian environment through the provision of commercial uses intermixed with residential uses. Therefore, the Project would be consistent with this goal. |
| <b>Goal 6</b>  | Support healthy and equitable communities.   | <b>Consistent.</b> The Project would be consistent with this goal by facilitating a diversity of housing options, which would support healthy and equitable communities. Therefore, the Project would be consistent with this goal.   |
| <b>Goal 7</b>  | Adapt to a changing climate and support an integrated regional development pattern and transportation network. | <b>Consistent.</b> The Project would be consistent with this goal by facilitating and encouraging new housing development, including both single- and multi-family, that results in livable and sustainable neighborhoods. The proposed Zoning Code and Specific Plan amendments would include mixed-use categories, which would provide for development of some lower-level commercial/retail, office, and potentially live/work uses. Therefore, the Project would be consistent with this goal.  |
| <b>Goal 8</b>  | Leverage new transportation technologies and data-driven solutions that result in more efficient travel.       | <b>Not Applicable.</b> This goal is directed toward SCAG to result in more efficient travel. No further discussion is required for individual development projects facilitated by the Project.  |
| <b>Goal 9</b>  | Encourage development of diverse housing types in areas that are supported by multiple transportation options. | <b>Consistent.</b> The Project would rezone areas of the City to allow for fulfilment of the City’s RHNA. The proposed Zoning Code and Specific Plan amendments would include mixed-use categories, which would provide for development of some lower-level commercial/retail, office, and potentially live/work uses. Sites identified for rezoning were prioritized based partly on accessibility to multiple modes of transportation. Therefore, the Project would be consistent with this goal.   |
| <b>Goal 10</b> | Promote conservation of natural and agricultural lands and restoration of habitats.                            | <b>Consistent.</b> The Project would be consistent with this goal, as it does not propose the conversion of any significant natural or agricultural lands to urban use. The Project would rezone land to allow for higher residential densities and nonresidential intensities. The Project would focus development in already urbanized parts of the City, rather than spreading growth to the urban fringes. Therefore, the Project would be consistent with this goal.   |

| Goal Number  | 2020–2045 RTP/SCS Goals, Principles, and Strategies | Consistency Analysis  |
|--|---|---|
| <b>RTP/SCS: Adopted Growth Forecasts for Riverside</b> |   |   |
| Adopted Growth Forecasts                               |   | <b>Inconsistent:</b> As concluded Section 3.9, <i>Population and Housing</i> , the Project would be growth inducing, in as much as the future development would cause SCAG’s Adopted Growth Forecasts to be exceeded. Therefore, the Project would be inconsistent with SCAG’s growth forecasts for Riverside, and a significant and unavoidable impact would occur in this regard. It is noted, however, the Project is proposed to accommodate the City’s remaining RHNA. State law and SCAG mandate that Riverside accommodate its RHNA “fair share” of the region’s housing needs for all income groups, which cannot be achieved without the Project’s proposed general plan amendments, Zoning Code changes, and Specific Plan amendments, and associated future development. |

EIR = environmental impact report; City = City of Riverside; GP 2025 = *Riverside General Plan 2025*; RHNA = Regional Housing Needs Assessment; RTP/SCS = Regional Transportation Plan/Sustainable Communities Strategy; SCAG = Southern California Association of Governments; SCAQMD = South Coast Air Quality Management District; TDM = Transportation Demand Management

**Table F-2. Consistency of the Project with GP 2025**

| Objective  | Policy   | Consistency Analysis   |
|--|--|--|
| <b>Riverside General Plan 2025</b>   |  |  |
| <b>Land Use and Urban Design Element</b>   |  |  |
| <b>Objective LU-8:</b><br>Emphasize smart growth principles through all steps of the land development process. | <b>Policy LU-8.1:</b> Ensure well-planned infill development Citywide, allow for increased density in selected areas along established transportation corridors. | <b>Consistent:</b> The Project would rezone areas of the City to allow for fulfilment of the City’s RHNA. The proposed Zoning Code and Specific Plan amendments would include mixed-use categories, which would provide for development of some lower-level commercial/retail, office, and potentially live/work uses. Sites identified for rezoning were prioritized based partly on accessibility to multiple modes of transportation. Therefore, the Project would be consistent with Policy LU-8.1.  |
|  | <b>Policy LU-8.2:</b> Avoid density increases or intrusion of nonresidential uses that are incompatible with existing neighborhoods.                             | <b>Consistent:</b> The Project would rezone areas of the City to allow for fulfilment of the City’s RHNA. The proposed Zoning Code and Specific Plan amendments would include mixed-use land use categories, which would provide for development of some lower-level commercial/retail, office, and potentially live/work uses. Integration of mixed-use development would introduce new residential development along with nonresidential uses. Nonresidential uses would be designed to be compatible with existing neighborhoods Therefore, the Project would be consistent with Policy LU-8.2. |
|  | <b>Policy LU-8.3:</b> Allow for mixed-use development at varying intensities at selected areas as a  | <b>Consistent:</b> Opportunity Sites have been identified to accommodate future housing and mixed-use development; this includes potential redevelopment sites that will help the City meet the housing demand. The Housing Element Update proposes to rezone up   |

| Objective  | Policy   | Consistency Analysis   |
|--|--|--|
|  | <p>means of revitalizing underutilized urban parcels.</p> <p><b>Policy LU-8.4:</b> Ensure that in-fill development and development along Magnolia and University Avenues, incorporates the latest Smart Growth principles.</p>   | <p>to 581 acres within City boundaries to accommodate a variety of housing types and densities to accommodate the needs of all income levels. The Project would focus development in already urbanized parts of the City, rather than spreading growth to the urban fringes. Therefore, the Project would be consistent with Policy LU-8.3.</p> <p><b>Consistent:</b> The Project would rezone land to allow for higher residential densities and nonresidential intensities. The Project would focus development in already urbanized parts of the City, rather than spreading growth to the urban fringes, which would include Magnolia and University Avenues. Therefore, the Project would be consistent with Policy LU-8.4.</p>   |
| <p><b>Objective LU-9:</b> Provide for continuing growth within the General Plan Area, with land uses and intensities appropriately designated to meet the needs of anticipated growth and to achieve the community's objectives.</p> | <p><b>Policy LU-9.2:</b> Evaluate proposed amendments to the Land Use Policy Map (Figure LU-10) to consider the effect such amendments will have on the City's ability to achieve its objectives</p> <p><b>Policy LU-9.3:</b> Designate areas for urban land uses where adequate urban levels of public facilities and services exist or are planned, in accordance with the public facilities and service</p> | <p><b>Consistent:</b> The Project would amend the GP 2025 Land Use Policy Map (Figure LU-10) to achieve statewide goals for the development, preservation, and improvement of housing and the City's Housing Element objectives to: (1) preserve and increase affordable housing options, including subsidized and non-subsidized affordable units, for lower-income and environmental justice communities, special needs, and underserved populations, (2) expand housing and services that address the needs of the City's homeless population, (3) promote healthy and attainable housing opportunities for all people regardless of their special characteristics as protected under state and federal fair housing laws, (4) facilitate and encourage new housing types, including both single- and multi-family and middle housing, and the necessary public amenities to support a sense of community that results in equitable and sustainable neighborhoods, (5) reduce and remove government barriers, where feasible and legally permissible, to reduce the costs of housing development and facilitate both ownership and rental opportunities for all residents, (6) ensure regular monitoring and reporting, including outreach to the public, on the status of housing in the City, (7) facilitate a development process that promotes design and rehabilitation of housing that is responsive to the needs and desires of the residents of environmental justice communities, and (8) provide opportunities to access fresh, healthy, and affordable food from sources that are accessible to neighborhoods and within a quarter mile of public transit. Therefore, the Project would be consistent with Policy LU-9.2.</p> <p><b>Consistent:</b> Following implementation of recommended mitigation and compliance with GP 2025 policies and RMC requirements, the Project's public facility impacts would be reduced to less-than-significant levels; see Section 3.10, <i>Public Services</i>, and Section 3.14, <i>Utilities and Service Systems</i>. Therefore, the Project would be consistent with Policy LU-9.3.</p> |

| Objective   | Policy  | Consistency Analysis   |
|---|---|--|
|   | <p>provisions policies of this General Plan.</p> <p><b>Policy LU-9.4:</b> Promote future patterns of urban development and land use that reduce infrastructure construction costs and make better use of existing and planned public facilities when considering amendments to the Land Use Policy Map (Figure LU-10).</p> <p><b>Policy LU-9.7:</b> Protect residentially designated areas from encroachment by incompatible uses and from the effects of incompatible uses in adjacent areas. Uses adjacent to planned residential areas should be compatible with the planned residential uses and should employ appropriate site design, landscaping and building design to buffer the non-residential uses.</p> | <p><b>Consistent:</b> The Project would rezone land to allow for higher residential density and nonresidential intensities, as infill developments. As such, the Project would focus development in already urbanized parts of the City to capitalize on existing and planned public facilities, rather than spreading growth to the urban fringes. Therefore, the Project would be consistent with Policy LU-9.4.</p> <p><b>Consistent:</b> Refer to discussion of Policy LU-8.2 above. The Project would be consistent with Policy LU-9.7.</p> |
| <p><b>Objective LU-10:</b> Provide for appropriate timing of development in accordance with the future land uses designated in this Land Use Element.</p> | <p><b>Policy LU-10.1:</b> Discourage the premature development of nonurbanized areas and encourage growth, through such programs as the Residential Infill Incentive Program, first in undeveloped and underdeveloped areas within, adjacent to or in close proximity to existing urbanized neighborhoods.</p> <p><b>Policy LU-10.4:</b> Require development projects to be timed</p>   | <p><b>Consistent:</b> Most of the proposed Opportunity Sites are developed to varying degrees. The Project is intended to facilitate redevelopment or adaptive reuse of selected Opportunity Sites that are vacant/underutilized and considered viable for development/redevelopment. Therefore, the Project would be consistent with Policy LU-10.1.</p> <p><b>Consistent:</b> Following implementation of recommended mitigation and compliance with GP 2025 policies and RMC requirements, the Project’s impacts on public services,</p>      |

| Objective  | Policy  | Consistency Analysis  |
|--|---|---|
|  | and phased so that projects are not occupied prior to the provision of necessary urban services.  | recreation, and utilities and service systems would be reduced to less-than-significant levels; see Section 3.10, <i>Public Services</i> , Section 3.11, <i>Recreation</i> , and Section 3.14, <i>Utilities and Service Systems</i> . Therefore, the Project would be consistent with Policy LU-10.4.   |
| <b>Objective LU-26:</b><br>Ensure that a network of modern, effective and adequate community facilities are equitably distributed across the entire City.  | <b>Policy LU-26.1:</b> Develop and enforce standards for community facilities (such as fire and police stations, libraries and parks) based upon population densities and proximity of existing facilities. | <b>Consistent:</b> The Housing Element Update includes policies that create safe and healthy complete neighborhoods that promote proximity of quality housing development to commercial uses, schools, transit, parks, and other needs. The Housing Element Update also includes Environmental Justice Policies to facilitate equitable distribution of housing throughout the City. These policies promote housing in response to the needs and desires of the residents of environmental justice communities as well as facilitate the development of affordable housing and supportive housing. Therefore, the Project would be consistent with Policy LU-26.1.  |
| <b>Objective LU-28:</b><br>Preserve and enhance the quality and character of Riverside by ensuring compliance with all relevant codes and regulations.   | <b>Policy LU-28.2:</b> Encourage the rehabilitation or replacement of dilapidated housing units and buildings, discouraging further deterioration. Where necessary, seek to remove unsafe structures.       | <b>Consistent:</b> Most of the proposed Opportunity Sites are developed to varying degrees. The Project is intended to facilitate redevelopment or adaptive reuse of Opportunity Sites that are vacant/underutilized and considered viable for development/redevelopment. Therefore, the Project would be consistent with Policy LU-28.2  |
| <b>Objective LU-30:</b><br>Establish Riverside’s neighborhoods as the fundamental building blocks of the overall community, utilizing Neighborhood and Specific Plans to provide a more detailed design and policy direction for development projects located in particular neighborhoods. | <b>Policy LU-30.3:</b> Ensure that the distinct character of each of Riverside’s neighborhoods is respected and reflected in all new development, especially infill development                             | <b>Consistent:</b> Opportunity Sites were identified with mapping tools to determine if sites potentially accommodate housing. Criteria were used to identify the initial inventory, including identifying undeveloped or underdeveloped sites, or sites with vacant buildings, high rates of vacancy, etc. Sites were then removed from the potential inventory if there were extra protections imposed by Proposition R, Measure C, or housing restrictive zoning (i.e., airport land use incompatibility); if there were known environmental risks like high fire hazard or floodplain areas; if there was a lack of available infrastructure services, such as wet or dry utilities; if there were sites of known significant soils or groundwater contamination; or if there were no amenities in the vicinity, like transportation access or employment centers. Therefore, the Project would be consistent with Policy LU-28.1 |

City = City of Riverside; GP 2025 = *Riverside General Plan 2025*; RHNA = Regional Housing Needs Assessment; RMC = Riverside Municipal Code

**Table F-3. Consistency of the Project with Specific Plan Policies**

| Goal  | Policy   | Consistency Analysis  |
|---|--|---|
| <b>Canyon Springs Business Park Specific Plan</b>   |  |   |
| There are no applicable policies related to the Project regarding land use.   |  |   |
| <b>Downtown Specific Plan</b>   |  |   |
| <p><b>Goal LU-1</b> To provide land use opportunities for Downtown to serve as the region’s cultural, governmental, arts, and entertainment center with unique and interrelated districts offering a wide range of opportunities for residential lifestyles, work environments, shopping, entertainment, learning, culture, and the arts.</p> | <p><b>Policy LU-4:</b> Encourage mixed-use development with a strong residential presence in the Raincross District, including both new construction and the adaptation of upstairs spaces in existing buildings for residential purposes.</p> <p><b>Policy LU-10:</b> Encourage the establishment of a vibrant mix of uses that will serve the needs of both residents and visitors and will help create a vibrant daytime, evening, and weekend environment.</p> | <p><b>Consistent:</b> The Project would rezone land to allow for higher residential density and nonresidential intensities, as infill developments. Therefore, the Project would be consistent with Policy LU-4.</p> <p><b>Consistent:</b> Opportunity Sites have been identified to accommodate future housing and mixed-use development. The Housing Element Update proposes to rezone up to 581 acres within City boundaries to accommodate a variety of housing types and densities to accommodate the needs of households of all income levels. The Project would focus development on already urbanized parts of the City, rather than spreading growth to the urban fringes. Therefore, the Project would be consistent with Policy LU-10.</p> |
| <b>Hunter Business Park Specific Plan</b>   |  |   |
| There are no applicable policies related to the Project regarding land use.   |  |   |
| <b>La Sierra University Specific Plan</b>   |  |   |
| <p><b>Goal LSU-1</b> To provide a high quality, attractive mixed-use development which includes educational, residential, commercial, industrial and recreational uses, all integrated with and enhancing the existing campus environment.</p>  | <p><b>Policy LSU-1.14</b> The mixed use community shall be designed to foster pedestrian circulation among various land uses including a pedestrian path along the new arterial street, and pedestrian paths that link the planned residential areas with the campus, neighborhood schools, parks, and the community multi-use trail proposed along the flood control channel, and the Five Points shopping area.</p>  | <p><b>Consistent.</b> The Project includes policies to encourage mixed-use development that reduces automobile trips, vehicle miles traveled, and associated energy consumption. Therefore, the Project would be consistent with Policy LSU-1.14.</p>   |

| Goal  | Policy  | Consistency Analysis  |
|---|---|---|
| <b>Magnolia Avenue Specific Plan: Corridor Wide Vision, Objectives and Policies</b>   |   |   |
| <b>Objective 1:</b> Restore the Magnolia/Market Corridor to its historical role as a scenic, “showcase roadway” that spans the City of Riverside while updating its function as a key transit corridor to support future growth. (General Plan Objective LU-12) | <b>Policy 1.6:</b> Support and encourage the redevelopment of the Magnolia Avenue corridor with mixed-use development. (General Plan Policy LU-58.7)      | <b>Consistent.</b> The Project includes policies to encourage mixed-use development that reduces automobile trips, vehicle miles traveled, and associated energy consumption. Therefore, the Project would be consistent with Policy 1.6.   |
| <b>Objective 3:</b> Promote the application of Mixed Use zoning for consistency with the General plan mixed use land use designations.  | N/A   | <b>Consistent.</b> The proposed Zoning Code and Specific Plan amendments would include mixed-use land use categories, which would provide for development of some lower-level commercial/retail, office, and potentially live/work uses. Therefore, the Project would be consistent with Objective 3.   |
| <b>Riverside Marketplace</b>  |   |   |
| To provide land uses which will benefit the surrounding neighborhoods economically, aesthetically, and socially   | Stabilize and enhance the residential areas by permitting compatible adjacent land uses as well as guiding improvements throughout the Specific Plan area | <b>Consistent.</b> The Project would rezone areas of the City to allow for fulfillment of the City’s RHNA. The proposed Zoning Code and Specific Plan amendments would include mixed-use land use categories, which would provide for development of some lower-level commercial/retail, office, and potentially live/work uses. New multi-family and mixed-use development would be more compatible with the established residential areas in Specific Plan areas than the previous heavy industrial uses. |
| <b>University Avenue Specific Plan</b>  |   |   |
| There are no applicable policies related to the Project regarding land use.   |   |   |
| <b>Northside Neighborhood and Pelissier Ranch Specific Plan</b>   |   |   |
| <b>LU Goal 1:</b> Offer a wide-range of housing types.  | <b>LU 1.1</b> Provide for all housing types from single-family to multi-family residential development, in different settings.                            | <b>Consistent.</b> The Project would rezone areas of the City to allow for fulfillment of the City’s RHNA. The proposed Zoning Code and Specific Plan amendments would include mixed-use categories, which would provide for development of some lower-level commercial/retail,   |

| Goal   | Policy  | Consistency Analysis   |
|--|---|--|
| <p><b>LU Goal 2:</b> Create appropriate land use planning areas and ensure that standards emphasize the compatibility of uses.</p> | <p><b>LU 2.1</b> Buffer industrial uses from sensitive receptors such as residential and recreational uses.</p>             | <p>office, and potentially live/work uses. Therefore, the Project would be consistent with this goal.</p>  |
|  | <p><b>LU 2.2</b> Promote mixed-use development that offers new housing opportunities and needed services for residents.</p> | <p><b>Consistent.</b> Although there is no specific provision for the Project to buffer industrial uses from sensitive receptors, the Project would follow implementation of recommended mitigation in compliance with GP 2025 policies and RMC requirements. As part of this, the zoning defines and provides parameters for various types of land uses in a community, including but not limited to commercial, residential, and industrial. The RMC regulates municipal affairs within the City’s jurisdiction including, without limitation, subdivision regulations (codified in RMC Title 18) and zoning regulations (codified in RMC Title 19). The purpose of RMC Title 18, <i>Subdivisions</i>, is to regulate and control the design and improvement of subdivisions. Therefore, the Project would be consistent with Policy LU 2.1.</p> |
|  | <p><b>LU 2.3</b> Create high-density mixed-use development tied to transit.</p>   | <p><b>Consistent.</b> Opportunity Sites have been identified to accommodate future housing and mixed-use development; this includes potential redevelopment sites that will help the City meet the housing demand. The Housing Element Update proposes to rezone up to 581 acres within City boundaries to accommodate a variety of housing types and densities to accommodate the needs of all income levels. The Project would rezone areas of the City to allow for fulfilment of the City’s RHNA. The proposed Zoning Code and Specific Plan amendments would include mixed-use categories, which would provide for development of some lower-level commercial/retail, office, and potentially live/work uses. Therefore, the Project would be consistent with Policy LU 2.2.</p>  |
|  |   | <p><b>Consistent:</b> Refer to discussion of RTP/SCS Goal 2. Additionally, the Project would rezone land to allow for fulfilment of the City’s RHNA. The Project’s proposed rezoning effort would involve the potential addition of 11,333,238 square feet of mixed-use development throughout the City; see Table 2-3, <i>Potential Development in Mixed-Use Zones</i>, and Table 2-4, <i>Total Residential and Non-Residential Development in Mixed-Use Zones by Ward</i>, in Chapter 2, <i>Project Description</i>. Mixed-use development patterns facilitate a pedestrian environment through the provision of commercial uses intermixed with residential uses. Sites identified for rezoning were prioritized</p>  |

| Goal   | Policy  | Consistency Analysis  |
|--|---|---|
| <p><b>LU Goal 3:</b> Ensure development regulations and design guidelines identify ways to achieve high quality development</p>  | <p><b>LU 3.1</b> Encourage a vertical mix of uses in key districts, including the Northside Village Center, that includes retail and restaurant uses on ground floors with residential and office uses on higher floors.</p> <p><b>LU 3.2</b> Promote Leadership in Energy and Environmental Design (LEED) standards for new development.</p> | <p>based partly on accessibility to multiple modes of transportation. Therefore, the Project would be consistent with Policy LU 2.3.</p> <p><b>Consistent:</b> The Project would rezone areas of the City to allow for fulfilment of the City’s RHNA. The proposed Zoning Code and Specific Plan amendments would include mixed-use land use categories, which would provide for development of some lower-level commercial/retail, office, and potentially live/work uses. Therefore, the Project could be inconsistent with Policy LU 3.1.</p> <p><b>Consistent:</b> The Project includes policies to encourage mixed-use development that reduces automobile trips, vehicle miles traveled, and associated energy consumption. Refer to discussion of RTP/SCS Goal 2. Additionally, the Project would rezone land to allow for fulfilment of the City’s RHNA. The Project’s proposed rezoning effort would involve the potential addition of 11,333,238 square feet of mixed-use development throughout the City (inclusive of both residential and nonresidential floor area); see Table 2-3, <i>Potential Development in Mixed-Use Zones</i>, and Table 2-4, <i>Total Residential and Non-Residential Development in Mixed-Use Zones by Ward</i>, in Chapter 2, <i>Project Description</i>. Mixed-use development patterns facilitate a pedestrian environment through the provision of commercial uses intermixed with residential uses. Therefore, the Project would be consistent with Policy LU 3.2.</p> |
| <p><b>California Baptist University Specific Plan</b></p>  |   |   |
| <p><b>Objective 1:</b> Provide sufficient and appropriate academic, research, athletic, housing, and support facilities to accommodate the University’s planned student enrollment of 12,000 by year 2025.</p> | <p><b>Policy 1.1:</b> Pursue the development program and campus improvements described in this Specific Plan while maintaining the flexibility needed to accommodate evolving academic and student needs and dynamic growth.</p>  | <p><b>Consistent.</b> Project implementation would allow for future development and would therefore improve regional and local development including support facilities. Therefore, the Project would be consistent with Objective 1.</p>   |
| <p><b>Objective 2:</b> Create a unified campus identity recognizable for both CBU and the community by</p>   | <p><b>Policy 2.1:</b> Provide edge and transition standards that respect the scale and character of the campus community interface in accordance with the</p>   | <p><b>Consistent.</b> The Project would comply with California State Planning and Land Use Law (Government Code Section 65000 et seq.), which sets forth minimum standards for the regulation of land use at the city</p>   |

| Goal  | Policy   | Consistency Analysis  |
|---|--|---|
| <p>harmonizing the campus aesthetic through architecture, signage, and landscaping.</p>   | <p>development standards and design guidelines outlined herein.</p> <p><b>Policy 2.2:</b> Create a new dramatic entrance to the campus at Adams Street and Briarwood Drive, connecting to Campus Bridge Drive and linking the urban mixed uses with the balance of the campus.</p> <p><b>Policy 2.3:</b> Maintain the Magnolia Avenue Corridor as a major multi-use corridor and attractive boulevard along the campus frontage</p>  | <p>and county levels. Therefore, there would be no conflict with Policy 2.1.</p> <p><b>Consistent.</b> The Project includes policies to encourage mixed-use development that reduces automobile trips, vehicle miles traveled, and associated energy consumption. The proposed Zoning Code and Specific Plan amendments would include mixed-use land use categories. Therefore, the Project would be consistent with Policy 2.2.</p> <p><b>Consistent.</b> The Project includes policies to encourage mixed-use development that reduces automobile trips, vehicle miles traveled, and associated energy consumption. Therefore, the Project would be consistent with Policy 2.3.</p> |
| <p><b>Objective 3:</b> Provide an enhanced CBU campus setting that attracts prospective students and their parents to the City of Riverside, and that enhances the stature of CBU as it relates to other universities and facilities.</p> | <p><b>Policy 3.1:</b> Establish and maintain modern educational and research facilities that respond to the needs of the University’s mission and planned curriculum.</p> <p><b>Policy 3.2:</b> Provide a variety of safe and secure housing opportunities for students, including through the conversion of existing apartment units to student housing.</p> <p><b>Policy 3.3:</b> Expand the athletic facilities to accommodate campus growth and attract higher level competitive prospective student-athletes.</p> <p><b>Policy 3.4:</b> Operate a modern events center that serves as the centerpiece for cultural and Christian events that advance the University’s mission.</p> <p><b>Policy 3.5:</b> Complete the transformation of Adams Plaza into a revitalized Lancer Plaza that incorporates a student recreation center, support services, and academic uses.</p> | <p><b>Consistent.</b> The Project includes policies to encourage mixed-use development that would not conflict with this objective. Therefore, the Project would be consistent with Objective 3.</p>  |
| <p><b>Objective 4:</b> Accommodate diverse modes of mobility for all persons traveling to,</p>  | <p><b>Policy 4.1:</b> Ensure consistency with City of Riverside street standards, as may be modified, regarding ultimate roadway configuration and improvements for those</p>  | <p><b>Consistent.</b> Refer to discussion of RTP/SCS Goal 2 and Goal 3. The Project would not conflict with Objective 4.</p>  |

| Goal  | Policy   | Consistency Analysis  |
|---|--|---|
| <p>from, and within the CBU campus.</p>   | <p>public roadway segments abutting the campus.</p> <p><b>Policy 4.2:</b> Provide well-marked and signed travelways for pedestrians, cyclists, and motorists within the CBU campus.</p> <p><b>Policy 4.3:</b> Accommodate the University’s parking demand in a manner that minimizes external impacts, as required per this Specific Plan.</p> <p><b>Policy 4.4:</b> Pursue the vacation of Diana Avenue to provide reasonable control over the access and vehicle speed along this southern campus edge.</p>  |   |
| <p><b>Objective 5:</b> Respect cultural features on the campus that reflect Riverside’s history and contribute to campus historical identity, while accommodating the University’s needs pursuant to its mission.</p> | <p><b>Policy 5.1:</b> Pursue the adaptive reuse of designated historical structures in accordance with local, State, and federal regulations, standards, guidelines, and Table 6-1.</p> <p><b>Policy 5.2:</b> Provide for new buildings to be architecturally compatible with the existing historical campus architecture consistent with the design guidelines contained in this Specific Plan.</p> <p><b>Policy 5.3:</b> Protect historical landscapes and other non-structural features pursuant to the standards in this Specific Plan.</p> <p><b>Policy 5.4:</b> Establish a CBU historical district, in accordance with Title 20 of the Riverside Municipal Code, that encompasses buildings and other features that reflect Riverside’s rich history.</p> | <p><b>Consistent.</b> The Project would be consistent with GP 2025 Historic Preservation Element policies relating to cultural resources as listed in Table 3.3-1, because it would comply with state laws and the Cultural Resources Ordinance aimed at identifying and protecting cultural resources. In addition, the Project calls for the use of the Secretary of the Interior’s Standards for Rehabilitation to integrate sensitive design practices (City of Riverside 2012). Therefore, the Project would be consistent with Objective 5.</p> |

GP 2025 = *Riverside General Plan 2025*; RHNA = Regional Housing Needs Assessment; RMC = Riverside Municipal Code; RTP/SCS = Regional Transportation Plan/Sustainable Communities Strategy

## References

City of Riverside. 2012. *Riverside General Plan 2025*. Historic Preservation Element. Available: [https://www.riversideca.gov/planning/gp2025program/GP/16\\_Historic\\_Preservation\\_Element.pdf](https://www.riversideca.gov/planning/gp2025program/GP/16_Historic_Preservation_Element.pdf). Accessed: April 2021.



Appendix G  
**Noise Field Measurement Data**

---



FIELD NOISE MEASUREMENT DATA

PROJECT: Riverside Housing Element PROJ. # 00660.20

SITE IDENTIFICATION: LT-1 OBSERVER(S): JCR  
 ADDRESS: Near 3496 Commerce St, Riverside, CA 92507  
 START DATE / TIME: 5/17/21 - 7:54 END DATE / TIME: 5/17/21 - 8:49

METEOROLOGICAL CONDITIONS:  
 TEMP: \_\_\_\_\_ °F HUMIDITY: \_\_\_\_\_ %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: \_\_\_\_\_ MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVRCAST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

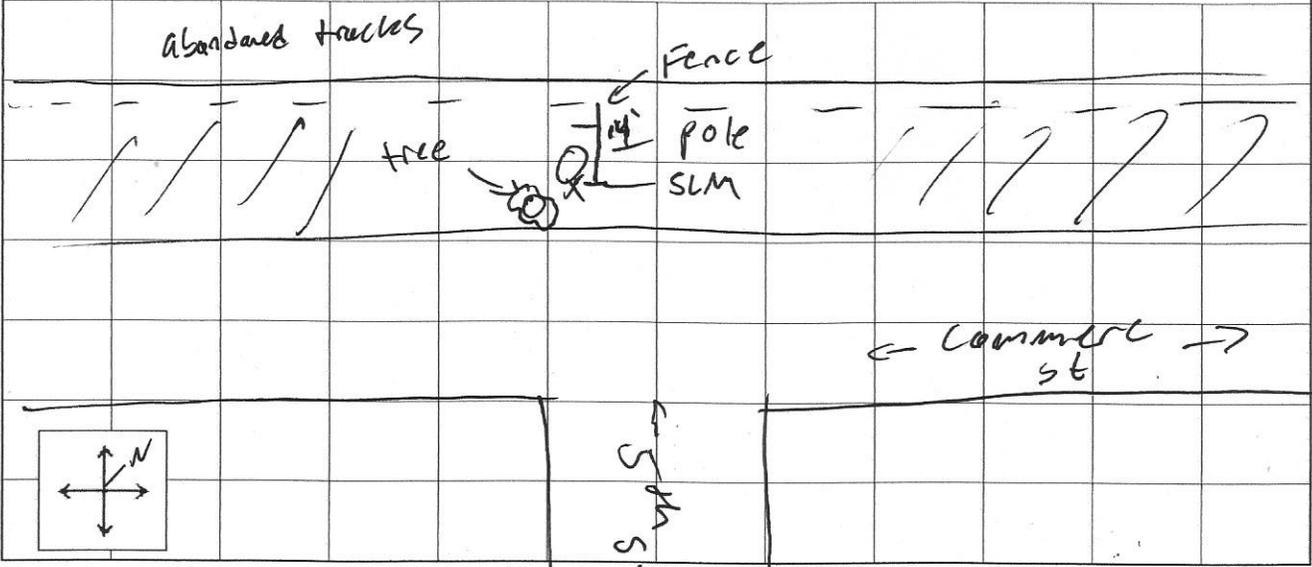
ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: Pic 4 TYPE: 1 (2) SERIAL #: \_\_\_\_\_  
 CALIBRATOR: CAL 200 SERIAL #: 2916  
 CALIBRATION CHECK, BEFORE: 94.0 AFTER: 93.9 WINDSCREEN X  
 SETTINGS: A-WEIGHTED ( ) SLOW ( ) FAST FRONTAL RANDOM ( ) ANSI ( ) OTHER: \_\_\_\_\_

| FILE / MEAS # | START TIME | END TIME | L <sub>eq</sub> | max | 1.67 | 8.33 | 25 | L | 50 | 90 | 99 | min |
|---------------|------------|----------|-----------------|-----|------|------|----|---|----|----|----|-----|
|               |            |          |                 |     |      |      |    |   |    |    |    |     |
|               |            |          |                 |     |      |      |    |   |    |    |    |     |
|               |            |          |                 |     |      |      |    |   |    |    |    |     |
|               |            |          |                 |     |      |      |    |   |    |    |    |     |

COMMENTS: Start 7:54 AM, closed @ 8:28 AM  
Arrived @ 8:48, stopped @ 8:49

NOISE SOURCE INFO:  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER: \_\_\_\_\_

DESCRIPTION / SKETCH:  
 TERRAIN: HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_  
 PHOTOS: \_\_\_\_\_  
 OTHER COMMENTS / SKETCH: \_\_\_\_\_



**FIELD NOISE MEASUREMENT DATA**

PROJECT: Riverside Housing Element PROJ. # 00660.20

**SITE IDENTIFICATION:** LT-2 OBSERVER(S): JCK  
 ADDRESS: Near 6155 Vandy Springs Pkwy, Riverside CA, 92507  
 START DATE / TIME: 5/18/21 END DATE / TIME: 5/18/21

**METEOROLOGICAL CONDITIONS:**  
 TEMP: \_\_\_\_\_ °F HUMIDITY: \_\_\_\_\_ %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: \_\_\_\_\_ MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVRCAST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

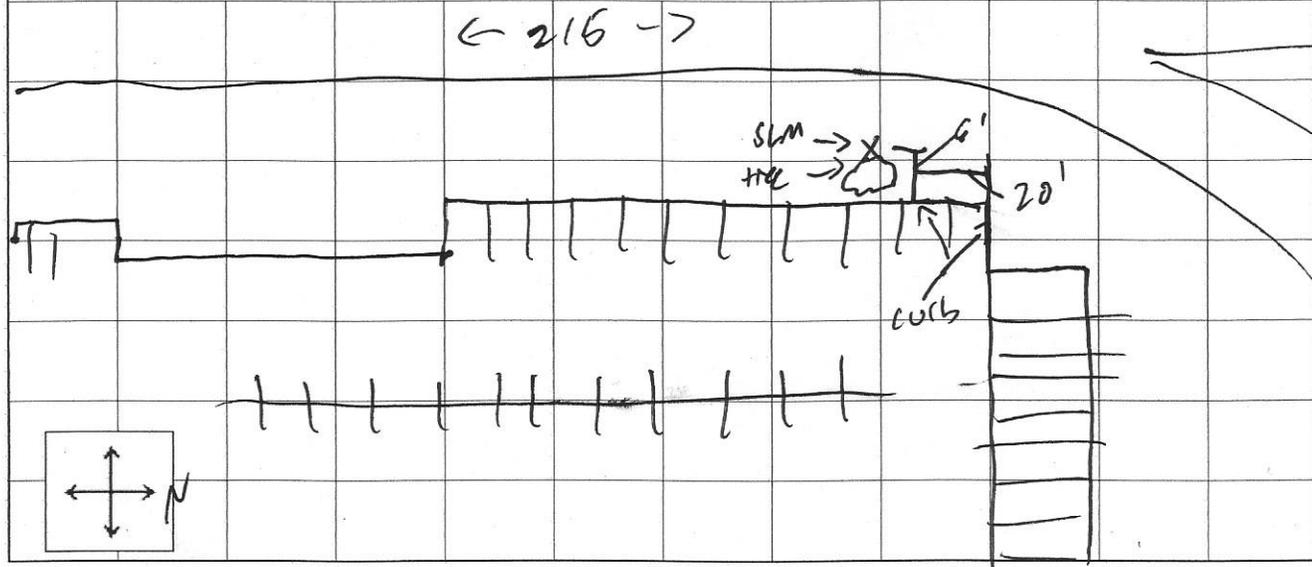
**ACOUSTIC MEASUREMENTS:**  
 INSTRUMENT: Pic F TYPE: 1 (2) SERIAL #: \_\_\_\_\_  
 CALIBRATOR: CAL 200 SERIAL #: 2966  
 CALIBRATION CHECK, BEFORE: 94.0 AFTER 94.0 WINDSCREEN X  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

| FILE / MEAS # | START TIME | END TIME | L               |     |      |      |    |    |    |    |     |  |  |  |
|---------------|------------|----------|-----------------|-----|------|------|----|----|----|----|-----|--|--|--|
|               |            |          | L <sub>eq</sub> | max | 1.67 | 8.33 | 25 | 50 | 90 | 99 | min |  |  |  |
|               |            |          |                 |     |      |      |    |    |    |    |     |  |  |  |
|               |            |          |                 |     |      |      |    |    |    |    |     |  |  |  |
|               |            |          |                 |     |      |      |    |    |    |    |     |  |  |  |
|               |            |          |                 |     |      |      |    |    |    |    |     |  |  |  |

COMMENTS: Started @ 9:05 Am, cleared @ ~~9:15~~ 9:45 Am  
quitted @ 1:30 pm, stopped @ 1:33 pm

**NOISE SOURCE INFO:**  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:

**DESCRIPTION / SKETCH:**  
 TERRAIN: HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_  
 PHOTOS: \_\_\_\_\_  
 OTHER COMMENTS / SKETCH: \_\_\_\_\_



**FIELD NOISE MEASUREMENT DATA**

PROJECT: Riverside Housing Element PROJ. # 00660.20

**SITE IDENTIFICATION:** LT-3 OBSERVER(S): JCK  
 ADDRESS: Near 18806 Van Buren Blvd, Riverside, CA, 92508  
 START DATE / TIME: 5/18/21 END DATE / TIME: 5/18/21

**METEOROLOGICAL CONDITIONS:**  
 TEMP: \_\_\_\_\_ °F HUMIDITY: \_\_\_\_\_ %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: \_\_\_\_\_ MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVRCAST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

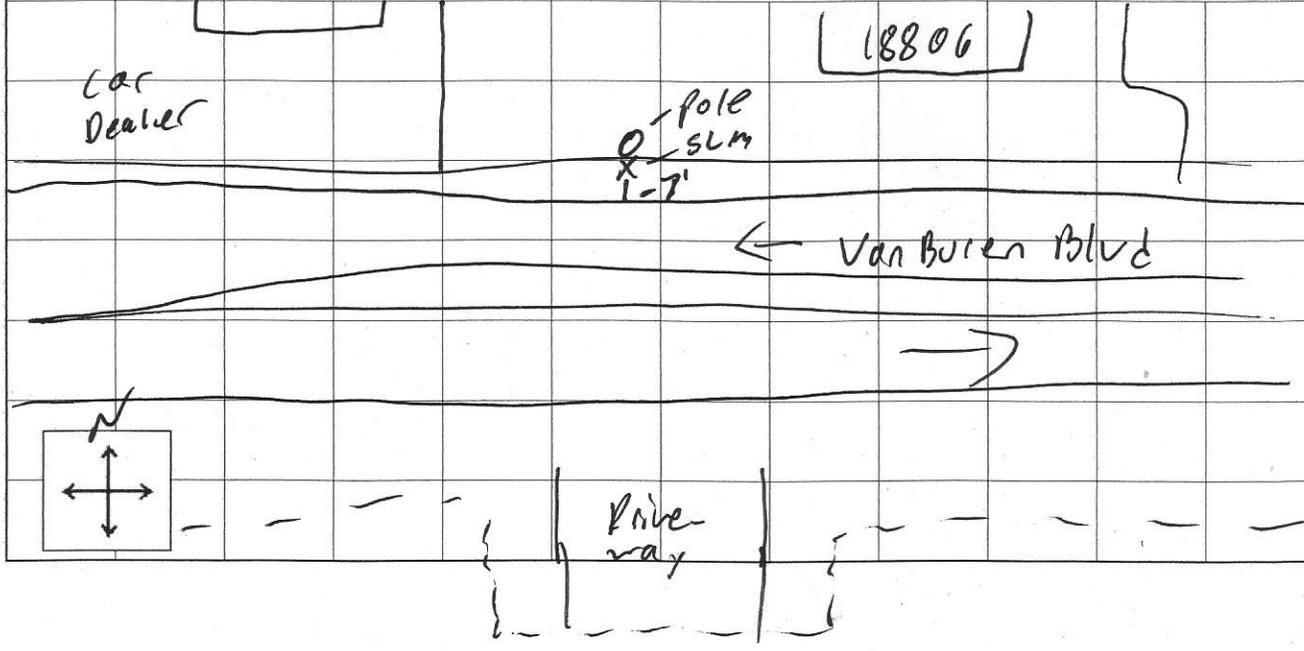
**ACOUSTIC MEASUREMENTS:**  
 INSTRUMENT: PIC H TYPE: 1 SERIAL #: \_\_\_\_\_  
 CALIBRATOR: CAL 200 SERIAL #: 2916  
 CALIBRATION CHECK, BEFORE: 94.0 AFTER 93.8 WINDSCREEN X  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

| FILE / MEAS # | START TIME | END TIME | L <sub>eq</sub> | max | 1.67 | 8.33 | 25 | L | 50 | 90 | 99 | min |
|---------------|------------|----------|-----------------|-----|------|------|----|---|----|----|----|-----|
|               |            |          |                 |     |      |      |    |   |    |    |    |     |
|               |            |          |                 |     |      |      |    |   |    |    |    |     |
|               |            |          |                 |     |      |      |    |   |    |    |    |     |
|               |            |          |                 |     |      |      |    |   |    |    |    |     |

COMMENTS: Started @ 9:10 Am, Cleared @ 10:10 Am  
Arrived @ 2:00 pm, Stopped @ 2:04 pm

**NOISE SOURCE INFO:**  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:

**DESCRIPTION / SKETCH:**  
 TERRAIN: HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_  
 PHOTOS: \_\_\_\_\_  
 OTHER COMMENTS / SKETCH: \_\_\_\_\_



**FIELD NOISE MEASUREMENT DATA**

PROJECT: Riverside Hously Element PROJ. # 0066020

**SITE IDENTIFICATION:** LT-4 OBSERVER(S): SCR  
 ADDRESS: Near 4640 Olivewood Ave, Riverside, CA 92501  
 START DATE / TIME: 7:52 AM - 5/17/21 END DATE / TIME: 5/17/21 - 8:39

**METEROLOGICAL CONDITIONS:**  
 TEMP: \_\_\_\_\_ °F HUMIDITY: \_\_\_\_\_ %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: \_\_\_\_\_ MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVRCAST PRTL CLOUDY FOG RAIN OTHER: \_\_\_\_\_

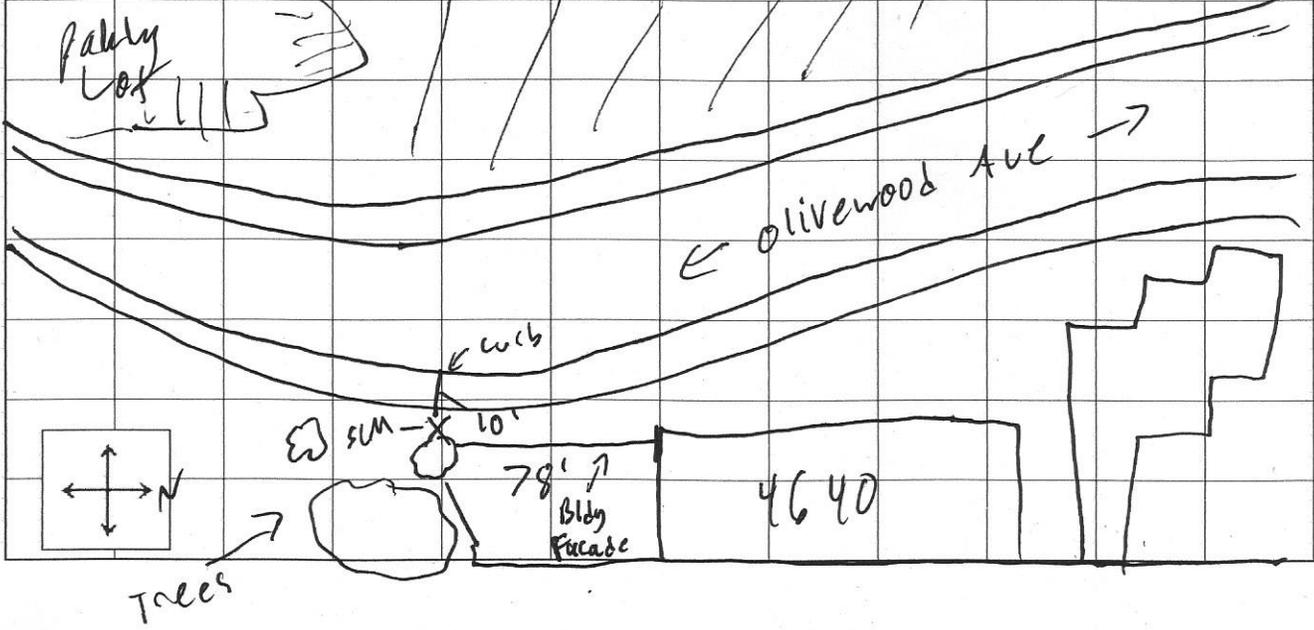
**ACOUSTIC MEASUREMENTS:**  
 INSTRUMENT: PIC F TYPE: 1 (2) SERIAL #: \_\_\_\_\_  
 CALIBRATOR: CAL200 SERIAL #: 2916  
 CALIBRATION CHECK, BEFORE: 94.0 AFTER: 94.0 WINDSCREEN: X  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

| FILE / MEAS # | START TIME | END TIME | L <sub>eq</sub> | max | L    |      |    |    |    |    |     |  |  |
|---------------|------------|----------|-----------------|-----|------|------|----|----|----|----|-----|--|--|
|               |            |          |                 |     | 1.67 | 8.33 | 25 | 50 | 90 | 99 | min |  |  |
|               |            |          |                 |     |      |      |    |    |    |    |     |  |  |
|               |            |          |                 |     |      |      |    |    |    |    |     |  |  |
|               |            |          |                 |     |      |      |    |    |    |    |     |  |  |
|               |            |          |                 |     |      |      |    |    |    |    |     |  |  |

COMMENTS: Start: 7:52 AM, cleared @ 8:10 AM  
Arrived @ 8:35 AM, stopped @ 8:39 AM

**NOISE SOURCE INFO:**  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:

**DESCRIPTION / SKETCH:**  
 TERRAIN: HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_  
 PHOTOS: \_\_\_\_\_  
 OTHER COMMENTS / SKETCH: \_\_\_\_\_



FIELD NOISE MEASUREMENT DATA

PROJECT: Riverside Housing Element PROJ.# 00660.20

SITE IDENTIFICATION: ST-1 OBSERVER(S): JCR  
 ADDRESS: Near 4080 Lemon St, Riverside, CA 92501  
 START DATE / TIME: 5/17/21 ~ 11:03 AM END DATE / TIME: 5/17/21 - 11:23 AM

METEOROLOGICAL CONDITIONS:  
 TEMP: 64 °F HUMIDITY: 72 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 0-2 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVCST PRTLY CLOUDY FOG RAIN OTHER:

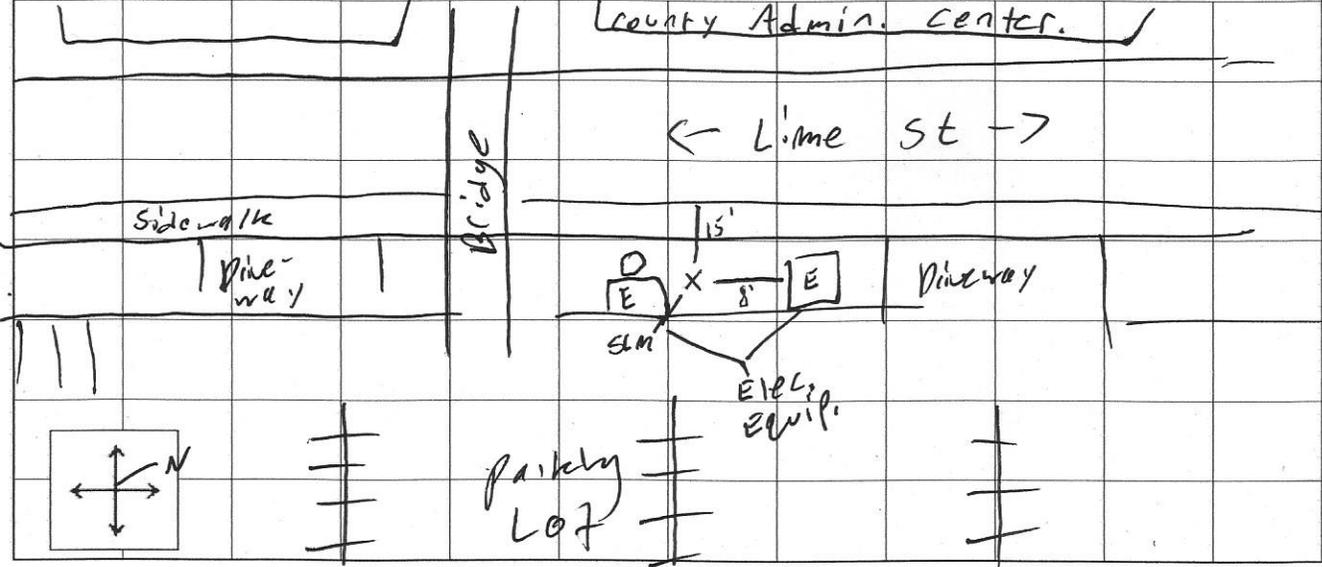
ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: LD 931 TYPE: ① 2 SERIAL #: 3786  
 CALIBRATOR: LD CAL 200 SERIAL #: 2910  
 CALIBRATION CHECK, BEFORE: 114.0 AFTER 113.9 WINDSCREEN X  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

| FILE / MEAS # | START TIME      | END TIME        | L <sub>eq</sub> | max         | 1.67        | 8.33        | 25          | L           | 50          | 90          | 99          | min |
|---------------|-----------------|-----------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| <u>347</u>    | <u>11:03 AM</u> | <u>11:23 AM</u> | <u>67.7</u>     | <u>77.1</u> | <u>73.5</u> | <u>70.8</u> | <u>68.2</u> | <u>66.5</u> | <u>64.2</u> | <u>62.5</u> | <u>61.3</u> |     |
|               |                 |                 |                 |             |             |             |             |             |             |             |             |     |
|               |                 |                 |                 |             |             |             |             |             |             |             |             |     |
|               |                 |                 |                 |             |             |             |             |             |             |             |             |     |

COMMENTS:

NOISE SOURCE INFO:  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER:  
 ROADWAY TYPE: Lime St, 91  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:

DESCRIPTION / SKETCH:  
 TERRAIN: HARD SOFT MIXED FLAT OTHER:  
 PHOTOS:  
 OTHER COMMENTS / SKETCH:



FIELD NOISE MEASUREMENT DATA

PROJECT: Riverside Housing Element PROJ. # 00660.20

SITE IDENTIFICATION: ST-2 OBSERVER(S): JCD  
 ADDRESS: near 2870 University Ave, Riverside, CA 92507  
 START DATE/TIME: 5/17/21 - 11:37 AM END DATE/TIME: 5/17/21 - 11:57

METEOROLOGICAL CONDITIONS:  
 TEMP: 66 °F HUMIDITY: 70 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 35 MPH DIR: N NE E SE S (SW) (W) NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVCST PRTLY CLOUDY FOG RAIN OTHER:

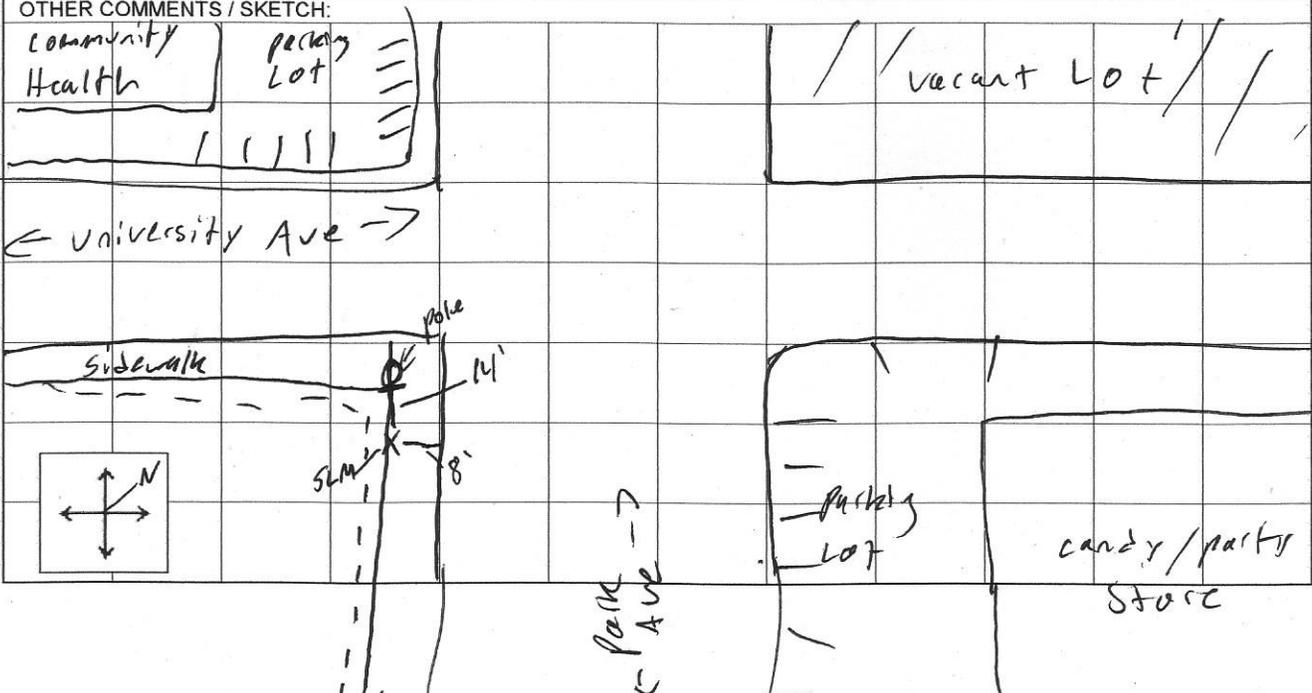
ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: LD 931 TYPE: 1 2 SERIAL #: 3786  
 CALIBRATOR: LD CAL 200 SERIAL #: 2916  
 CALIBRATION CHECK, BEFORE: 114.0 AFTER 114.0 WINDSCREEN X  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

| FILE / MEAS # | START TIME | END TIME | L <sub>eq</sub> | max  | 1.67 | 8.33 | 25   | L 50 | 90   | 99   | min  |
|---------------|------------|----------|-----------------|------|------|------|------|------|------|------|------|
| .348          | 11:37am    | 11:57am  | 68.6            | 82.9 | 77.1 | 72.6 | 68.6 | 65.7 | 58.9 | 57.2 | 56.3 |
|               |            |          |                 |      |      |      |      |      |      |      |      |
|               |            |          |                 |      |      |      |      |      |      |      |      |
|               |            |          |                 |      |      |      |      |      |      |      |      |

COMMENTS:

NOISE SOURCE INFO:  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER:  
 ROADWAY TYPE: University Ave  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:  
Train Horn (passed twice)  
- passed out emergency siren

DESCRIPTION / SKETCH:  
 TERRAIN: HARD SOFT MIXED FLAT OTHER:  
 PHOTOS:  
 OTHER COMMENTS / SKETCH:



FIELD NOISE MEASUREMENT DATA

PROJECT: Riverside Housing Element PROJ. # 00660.20

SITE IDENTIFICATION: ST-3 OBSERVER(S): JCR  
 ADDRESS: Near 2727 Main St, Riverside, CA 92501  
 START DATE/TIME: 5/17/21 - 9:34 AM END DATE/TIME: 5/17/21 - 9:54 AM

METEOROLOGICAL CONDITIONS:  
 TEMP: 61 °F HUMIDITY: 77 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 2-4 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVCYST PRTLY CLOUDY FOG RAIN OTHER:

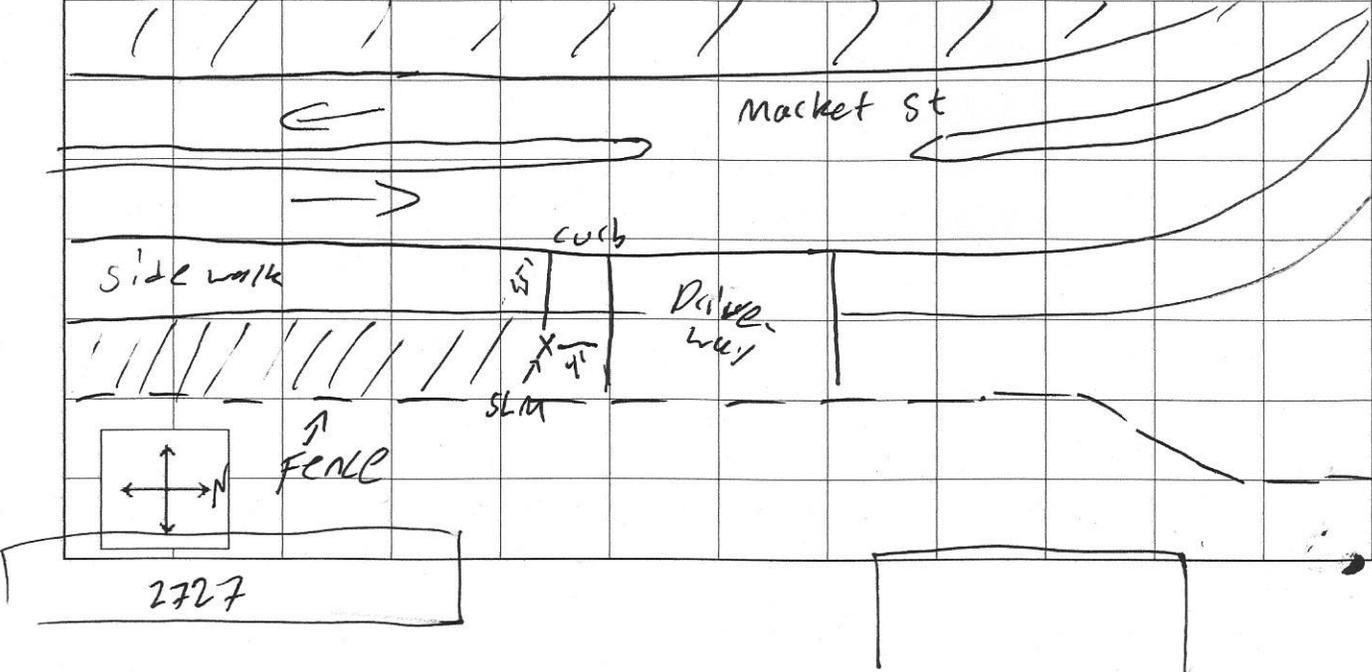
ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: LD 831 TYPE: 1 2 SERIAL #: 3786  
 CALIBRATOR: LD CAL 200 SERIAL #: 2916  
 CALIBRATION CHECK, BEFORE: 114.0 AFTER 114.0 WINDSCREEN X  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

| FILE / MEAS # | START TIME | END TIME | L <sub>eq</sub> | max  | 1.67 | 8.33 | 25   | L 50 | 90   | 99   | min  |
|---------------|------------|----------|-----------------|------|------|------|------|------|------|------|------|
| 345           | 9:34       | 9:54     | 67.3            | 79.4 | 75.5 | 72.4 | 67.7 | 63.6 | 52.8 | 48.8 | 47.8 |
|               |            |          |                 |      |      |      |      |      |      |      |      |
|               |            |          |                 |      |      |      |      |      |      |      |      |
|               |            |          |                 |      |      |      |      |      |      |      |      |

COMMENTS:

NOISE SOURCE INFO:  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER:  
 ROADWAY TYPE: Market St  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:

DESCRIPTION / SKETCH:  
 TERRAIN: HARD SOFT MIXED FLAT OTHER:  
 PHOTOS:  
 OTHER COMMENTS / SKETCH:



FIELD NOISE MEASUREMENT DATA

PROJECT: Riverside Housing Element PROJ. # 00660.20

SITE IDENTIFICATION: ST-4 OBSERVER(S): JCR  
 ADDRESS: Near 821 W La Cadena Dr, Riverside, CA 92501  
 START DATE/TIME: 5/17/21 - 8:48 AM END DATE/TIME: 5/17/21 - 9:08 AM

METEOROLOGICAL CONDITIONS:  
 TEMP: 62 °F HUMIDITY: 73 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 1-2 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVCST PRTLY CLOUDY FOG RAIN OTHER:

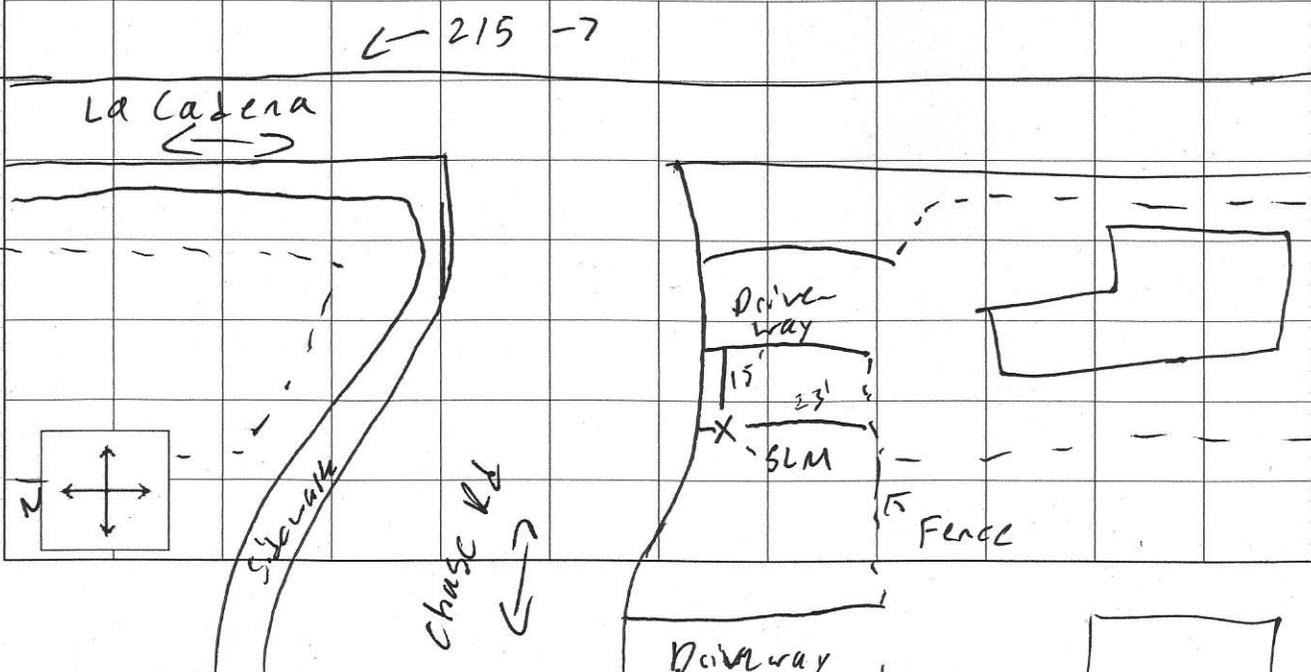
ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: LD 831 TYPE: 2 SERIAL #: 3784  
 CALIBRATOR: LD CAL 200 SERIAL #: 2916  
 CALIBRATION CHECK, BEFORE: 114.0 AFTER: 114.0 WINDSCREEN: X  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

| FILE / MEAS # | START TIME  | END TIME    | L <sub>eq</sub> | max         | 1.67        | 8.33        | 25          | L 50        | 90          | 99          | min         |
|---------------|-------------|-------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|               |             |             |                 |             |             |             |             |             |             |             |             |
| <u>344</u>    | <u>8:48</u> | <u>9:08</u> | <u>69.2</u>     | <u>75.9</u> | <u>72.9</u> | <u>71.3</u> | <u>70.0</u> | <u>68.9</u> | <u>66.5</u> | <u>62.9</u> | <u>61.5</u> |

COMMENTS:

NOISE SOURCE INFO:  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER:  
 ROADWAY TYPE: LA Cadena / 215  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:

DESCRIPTION / SKETCH:  
 TERRAIN: HARD SOFT MIXED FLAT OTHER:  
 PHOTOS:  
 OTHER COMMENTS / SKETCH:



# FIELD NOISE MEASUREMENT DATA

PROJECT: RIVERSIDE H2 PROJ. # \_\_\_\_\_

SITE IDENTIFICATION: ST-5 OBSERVER(S): D. HARPER  
 ADDRESS: 6674 ARUNGTON AVE  
 START DATE / TIME: 5-17 12:02 END DATE / TIME: \_\_\_\_\_

METEOROLOGICAL CONDITIONS:  
 TEMP: 69 °F HUMIDITY: 32 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 0-3 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVCST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: LD LXT TYPE: 1 2 SERIAL #: 4005  
 CALIBRATOR: LAL 200 SERIAL #: 6645  
 CALIBRATION CHECK: PRE-TEST 113.9 dBA SPL POST-TEST 83 dBA SPL  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_  
 WINDSCREEN

| REC #      | START        | END          | Leq         | Lmax        | L1          | L10         | L25         | L50         | L90         | L99         | Lmin        |
|------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>171</u> | <u>12:02</u> | <u>12:22</u> | <u>71.3</u> | <u>83.3</u> | <u>72.6</u> | <u>75.0</u> | <u>72.7</u> | <u>69.7</u> | <u>59.2</u> | <u>50.2</u> | <u>45.0</u> |
|            |              |              |             |             |             |             |             |             |             |             |             |
|            |              |              |             |             |             |             |             |             |             |             |             |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

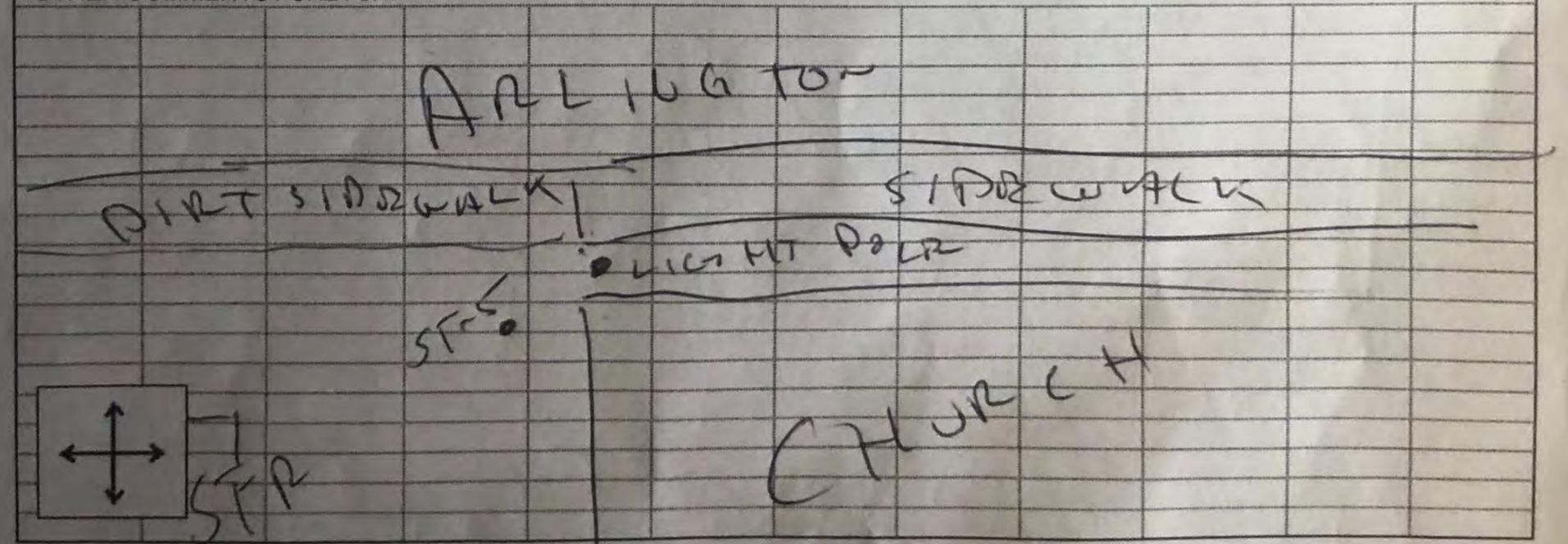
SOURCE INFO AND TRAFFIC COUNTS:  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 TRAFFIC COUNT DURATION: \_\_\_\_\_ -MIN SPEED #2 COUNT SPEED  

|              | NB/EB | SB/WB | NB/EB | SB/WB | NB/EB | SB/WB | NB/EB | SB/WB |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| AUTOS:       |       |       |       |       |       |       |       |       |
| MED. TRUCKS: |       |       |       |       |       |       |       |       |
| HVY TRUCKS:  |       |       |       |       |       |       |       |       |
| BUSES:       |       |       |       |       |       |       |       |       |
| MOTORCYCLES: |       |       |       |       |       |       |       |       |

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:  
 \_\_\_\_\_

DESCRIPTION / SKETCH:  
 TERRAIN: HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_  
 PHOTOS: NISW  
 OTHER COMMENTS / SKETCH: \_\_\_\_\_



# FIELD NOISE MEASUREMENT DATA

PROJECT: \_\_\_\_\_ PROJ. # \_\_\_\_\_

**SITE IDENTIFICATION:** ST-6  
 ADDRESS: 10249 ARLINGTON AVE OBSERVER(S): PHARDIA  
 START DATE / TIME: 7-17 11:30 END DATE / TIME: \_\_\_\_\_

**METEOROLOGICAL CONDITIONS:**  
 TEMP: 68 °F HUMIDITY: 41 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 3-5 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVRCAST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

**ACOUSTIC MEASUREMENTS:**  
 INSTRUMENT: LD LET TYPE: 1 2 SERIAL #: 4005  
 CALIBRATOR: CAL 200 SERIAL #: 6691  
 CALIBRATION CHECK: PRE-TEST 11406 dBA SPL POST-TEST 11396 dBA SPL WINDSCREEN: ✓  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

| REC #      | START        | END          | L <sub>eq</sub> | L <sub>max</sub> | L <sub>1</sub> | L <sub>10</sub> <sup>83</sup> | L <sub>25</sub> | L <sub>50</sub> | L <sub>90</sub> | L <sub>99</sub> | L <sub>min</sub> |
|------------|--------------|--------------|-----------------|------------------|----------------|-------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| <u>117</u> | <u>11:20</u> | <u>11:40</u> | <u>67.5</u>     | <u>84.5</u>      | <u>73.9</u>    | <u>71.2</u>                   | <u>68.9</u>     | <u>65.7</u>     | <u>56.9</u>     | <u>52.7</u>     | <u>51.0</u>      |
|            |              |              |                 |                  |                |                               |                 |                 |                 |                 |                  |
|            |              |              |                 |                  |                |                               |                 |                 |                 |                 |                  |

COMMENTS: \_\_\_\_\_

**SOURCE INFO AND TRAFFIC COUNTS:**  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_

|              | TRAFFIC COUNT DURATION: _____ -MIN |       | SPEED |       | #2 COUNT |       | SPEED |       |
|--------------|------------------------------------|-------|-------|-------|----------|-------|-------|-------|
|              | NB/EB                              | SB/WB | NB/EB | SB/WB | NB/EB    | SB/WB | NB/EB | SB/WB |
| AUTOS:       |                                    |       |       |       |          |       |       |       |
| MED. TRUCKS: |                                    |       |       |       |          |       |       |       |
| HVY TRUCKS:  |                                    |       |       |       |          |       |       |       |
| BUSES:       |                                    |       |       |       |          |       |       |       |
| MOTORCYCLES: |                                    |       |       |       |          |       |       |       |

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER: \_\_\_\_\_

**DESCRIPTION / SKETCH:**  
 TERRAIN: HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_  
 PHOTOS: NB SW  
 OTHER COMMENTS / SKETCH: \_\_\_\_\_



# FIELD NOISE MEASUREMENT DATA

PROJECT: RIVERSIDE HE PROJ. # \_\_\_\_\_

**SITE IDENTIFICATION:** ST-8  
 ADDRESS: 3625 POLK STREET OBSERVER(S): P. HARRIS  
 START DATE / TIME: 5-17 8:05 END DATE / TIME: \_\_\_\_\_

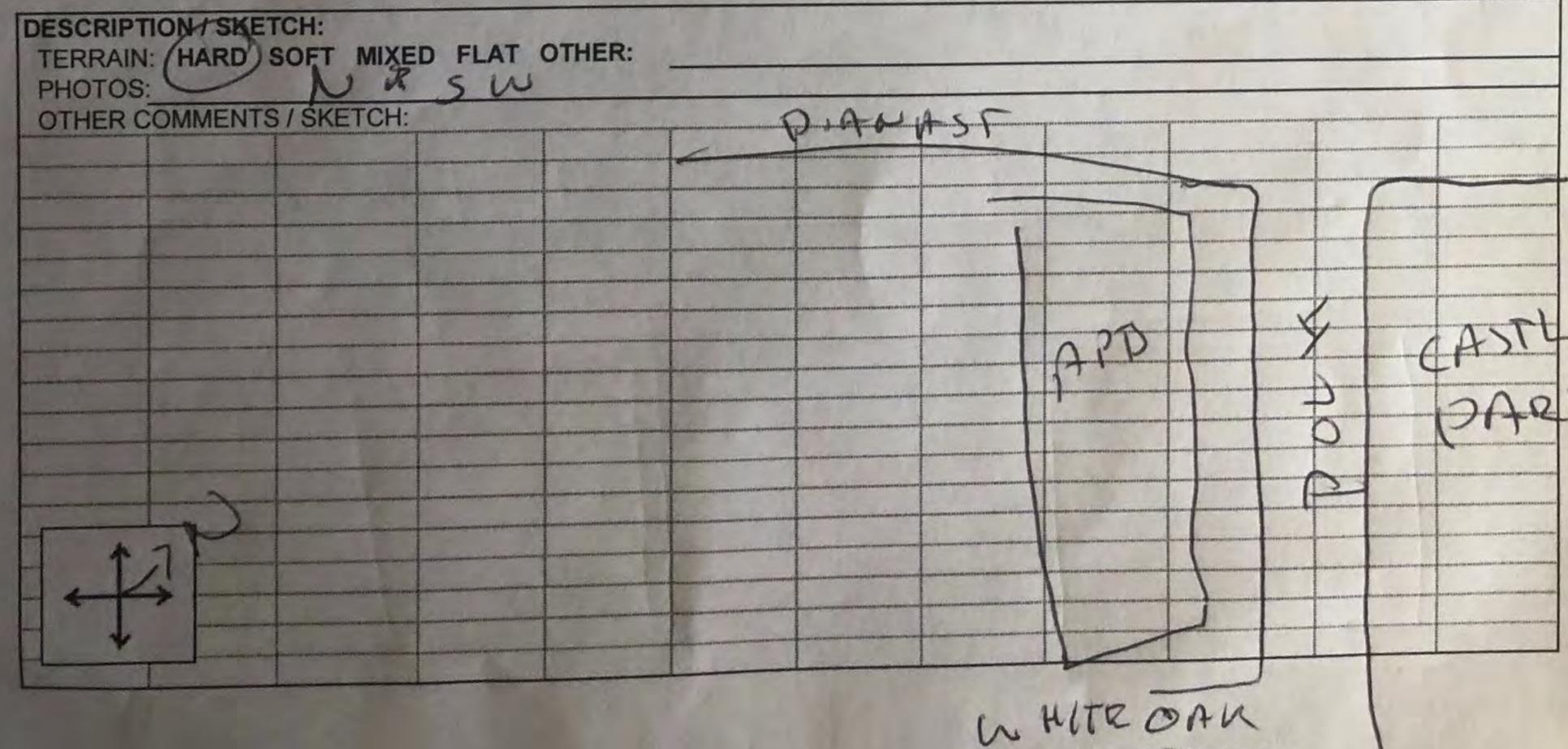
**METEOROLOGICAL CONDITIONS:**  
 TEMP: 67.7 °F HUMIDITY: 47 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 0 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVRCAST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

**ACOUSTIC MEASUREMENTS:**  
 INSTRUMENT: LD LXT TYPE: D2 SERIAL #: 4005  
 CALIBRATOR: LD CAL 200 SERIAL #: 6645  
 CALIBRATION CHECK: PRE-TEST 113.6 dBA SPL POST-TEST 114.1 dBA SPL WINDSCREEN \_\_\_\_\_  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

| REC #     | START       | END         | L <sub>eq</sub>  | L <sub>max</sub> | L <sub>1</sub> | L <sub>5</sub> <sup>8.3</sup> | L <sub>25</sub> | L <sub>50</sub> | L <sub>90</sub> | L <sub>99</sub> | L <sub>min</sub> |
|-----------|-------------|-------------|------------------|------------------|----------------|-------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| <u>23</u> | <u>8:05</u> | <u>8:20</u> | <u>61.6/74.3</u> | <u>68.5</u>      | <u>65.4</u>    | <u>62.8</u>                   | <u>59.2</u>     | <u>54.7</u>     | <u>52.8</u>     | <u>52.1</u>     |                  |
|           |             |             |                  |                  |                |                               |                 |                 |                 |                 |                  |
|           |             |             |                  |                  |                |                               |                 |                 |                 |                 |                  |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SOURCE INFO AND TRAFFIC COUNTS:**  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 TRAFFIC COUNT DURATION: \_\_\_\_\_ -MIN SPEED #2 COUNT SPEED  
 NB/EB SB/WB NB/EB SB/WB NB/EB SB/WB NB/EB SB/WB  
 AUTOS: \_\_\_\_\_  
 MED. TRUCKS: \_\_\_\_\_  
 HVY TRUCKS: \_\_\_\_\_  
 BUSES: \_\_\_\_\_  
 MOTORCYCLES: \_\_\_\_\_  
 SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:  
SR-91 SETS BY GRND



# FIELD NOISE MEASUREMENT DATA

PROJECT: RIVER SIDE H<sub>12</sub> PROJ. # \_\_\_\_\_

SITE IDENTIFICATION: ST-9 OBSERVER(S): P. FLAHERTY  
 ADDRESS: 1025 INDIAN AVENUE  
 START DATE / TIME: 5-12 7:15 END DATE / TIME: \_\_\_\_\_

METEOROLOGICAL CONDITIONS:  
 TEMP: \_\_\_\_\_ °F HUMIDITY: \_\_\_\_\_ %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: \_\_\_\_\_ MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVRCST PRTL CLOUDY FOG RAIN OTHER: \_\_\_\_\_

ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: LD LXT TYPE: ① 2 SERIAL #: 4005  
 CALIBRATOR: CA 200 SERIAL #: \_\_\_\_\_  
 CALIBRATION CHECK: PRE-TEST 113.79 dBA SPL POST-TEST 113.86 dBA SPL WINDSCREEN   
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

| REC #     | START       | END         | L <sub>eq</sub> | L <sub>max</sub> | L <sub>5</sub> | L <sub>10</sub> | L <sub>50</sub> | L <sub>90</sub> | L <sub>99</sub> | L <sub>min</sub> |
|-----------|-------------|-------------|-----------------|------------------|----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| <u>12</u> | <u>7:15</u> | <u>7:25</u> | <u>72.3</u>     | <u>88.3</u>      | <u>74.6</u>    | <u>73.6</u>     | <u>72.0</u>     | <u>71.4</u>     | <u>69.8</u>     | <u>67.8</u>      |
|           |             |             |                 |                  | <u>76.5</u>    | <u>73.4</u>     | <u>72.4</u>     |                 | <u>68.7</u>     |                  |

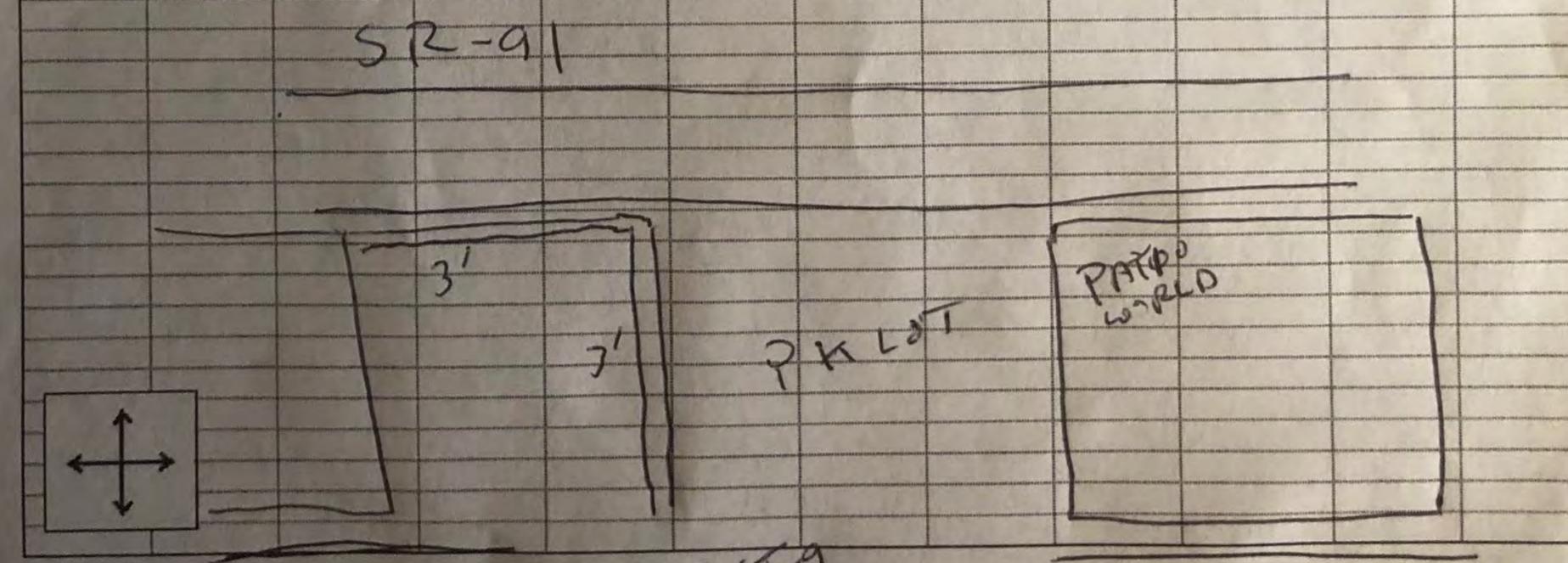
COMMENTS: \_\_\_\_\_

SOURCE INFO AND TRAFFIC COUNTS:  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 TRAFFIC COUNT DURATION: \_\_\_\_\_ -MIN SPEED #2 COUNT SPEED  

|              | NB/EB | SB/WB | NB/EB | SB/WB | NB/EB | SB/WB | NB/EB | SB/WB |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
| AUTOS:       |       |       |       |       |       |       |       |       |
| MED. TRUCKS: |       |       |       |       |       |       |       |       |
| HVY TRUCKS:  |       |       |       |       |       |       |       |       |
| BUSES:       |       |       |       |       |       |       |       |       |
| MOTORCYCLES: |       |       |       |       |       |       |       |       |

 SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER: \_\_\_\_\_

DESCRIPTION / SKETCH:  
 TERRAIN: HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_  
 PHOTOS: \_\_\_\_\_  
 OTHER COMMENTS / SKETCH: \_\_\_\_\_



• STA  
 INDIAN AVENUE

FIELD NOISE MEASUREMENT DATA

PROJECT: Riverside Housing Element PROJ. # 60660.20

SITE IDENTIFICATION: ST-10 OBSERVER(S): JCR  
 ADDRESS: near 1825 3<sup>rd</sup> st, Riverside, CA 92507  
 START DATE / TIME: 5/17/21 - 12:11 pm END DATE / TIME: 5/17/21 - 12:31 pm

METEOROLOGICAL CONDITIONS:  
 TEMP: 66 °F HUMIDITY: 60.0 %R.H. WIND: CALM  LIGHT  MODERATE  VARIABLE  
 WINDSPEED: 0.2 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR  OVCST PRTLY CLOUDY FOG RAIN OTHER:

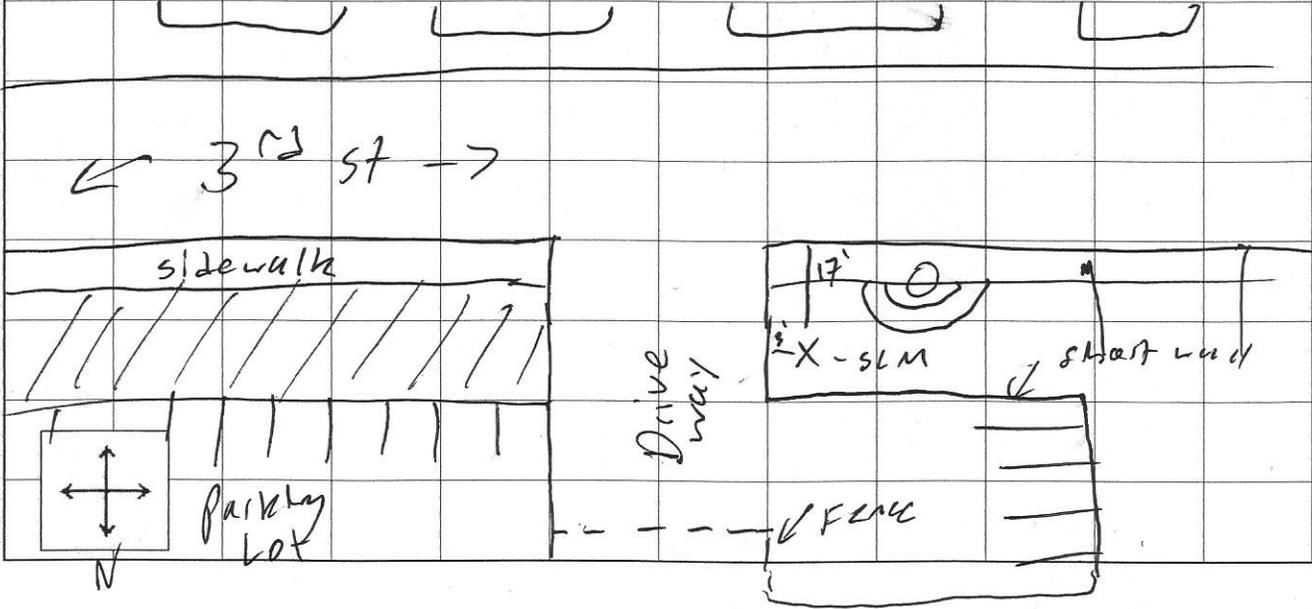
ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: LV 831 TYPE 1 2 SERIAL #: 3786  
 CALIBRATOR: LD CAL 200 SERIAL #: 2916  
 CALIBRATION CHECK, BEFORE: 114.0 AFTER 114.0 WINDSCREEN X  
 SETTINGS: A-WEIGHTED  SLOW  FAST  FRONTAL  RANDOM  ANSI  OTHER:

| FILE / MEAS # | START TIME | END TIME | L               |      |      |      |      |      |      |      |      |  |
|---------------|------------|----------|-----------------|------|------|------|------|------|------|------|------|--|
|               |            |          | L <sub>eq</sub> | max  | 1.67 | 8.33 | 25   | 50   | 90   | 99   | min  |  |
| 1349          | 12:11 pm   | 12:31 pm | 68.5            | 81.5 | 76.1 | 73.2 | 69.7 | 69.9 | 54.5 | 48.9 | 47.8 |  |
|               |            |          |                 |      |      |      |      |      |      |      |      |  |
|               |            |          |                 |      |      |      |      |      |      |      |      |  |
|               |            |          |                 |      |      |      |      |      |      |      |      |  |

COMMENTS:

NOISE SOURCE INFO:  
 PRIMARY NOISE SOURCE:  TRAFFIC  AIRCRAFT  RAIL  INDUSTRIAL  AMBIENT  OTHER:  
 ROADWAY TYPE:  
 OTHER SOURCES:  DIST. AIRCRAFT /  RUSTLING LEAVES /  DIST. BARKING DOGS /  BIRDS /  DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING /  DIST. TRAFFIC /  DIST. LANDSCAPING ACTIVITIES / OTHER:

DESCRIPTION / SKETCH:  
 TERRAIN:  HARD  SOFT  MIXED  FLAT  OTHER:  
 PHOTOS:  
 OTHER COMMENTS / SKETCH:



## FIELD NOISE MEASUREMENT DATA

PROJECT: 21KFR5103 HE PROJ. # \_\_\_\_\_

|                                     |                               |
|-------------------------------------|-------------------------------|
| SITE IDENTIFICATION: <u>17-11</u>   | OBSERVER(S): <u>P. HARRIS</u> |
| ADDRESS: <u>3375 LOW A AVE</u>      | END DATE / TIME: _____        |
| START DATE / TIME: <u>5-18 2:56</u> |                               |

**METEOROLOGICAL CONDITIONS:**

TEMP: 65 °F HUMIDITY: 57 %R.H. WIND: CALM LIGHT MODERATE VARIABLE

WINDSPEED: 4 MPH DIR: N NE E SE S SW W NW STEADY GUSTY

SKY: SUNNY CLEAR OVCST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

**ACOUSTIC MEASUREMENTS:**

INSTRUMENT: LD LxT TYPE: 12 SERIAL #: 4005

CALIBRATOR: CAL 200 SERIAL #: 6640

CALIBRATION CHECK: PRE-TEST 113.96 dBA SPL POST-TEST 114.06 dBA SPL WINDSCREEN

SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

| REC #      | START       | END         | L <sub>eq</sub> | L <sub>max</sub> | L <sub>1</sub> | L <sub>5</sub> <u>83</u> | L <sub>25</sub> | L <sub>50</sub> | L <sub>90</sub> | L <sub>99</sub> | L <sub>min</sub> |
|------------|-------------|-------------|-----------------|------------------|----------------|--------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| <u>181</u> | <u>7:56</u> | <u>8:16</u> | <u>64.1</u>     | <u>80.6</u>      | <u>70.2</u>    | <u>65.4</u>              | <u>64.1</u>     | <u>62.4</u>     | <u>60.3</u>     | <u>59.3</u>     | <u>58.7</u>      |
|            |             |             |                 |                  |                |                          |                 |                 |                 |                 |                  |
|            |             |             |                 |                  |                |                          |                 |                 |                 |                 |                  |

COMMENTS: \_\_\_\_\_

**SOURCE INFO AND TRAFFIC COUNTS:**

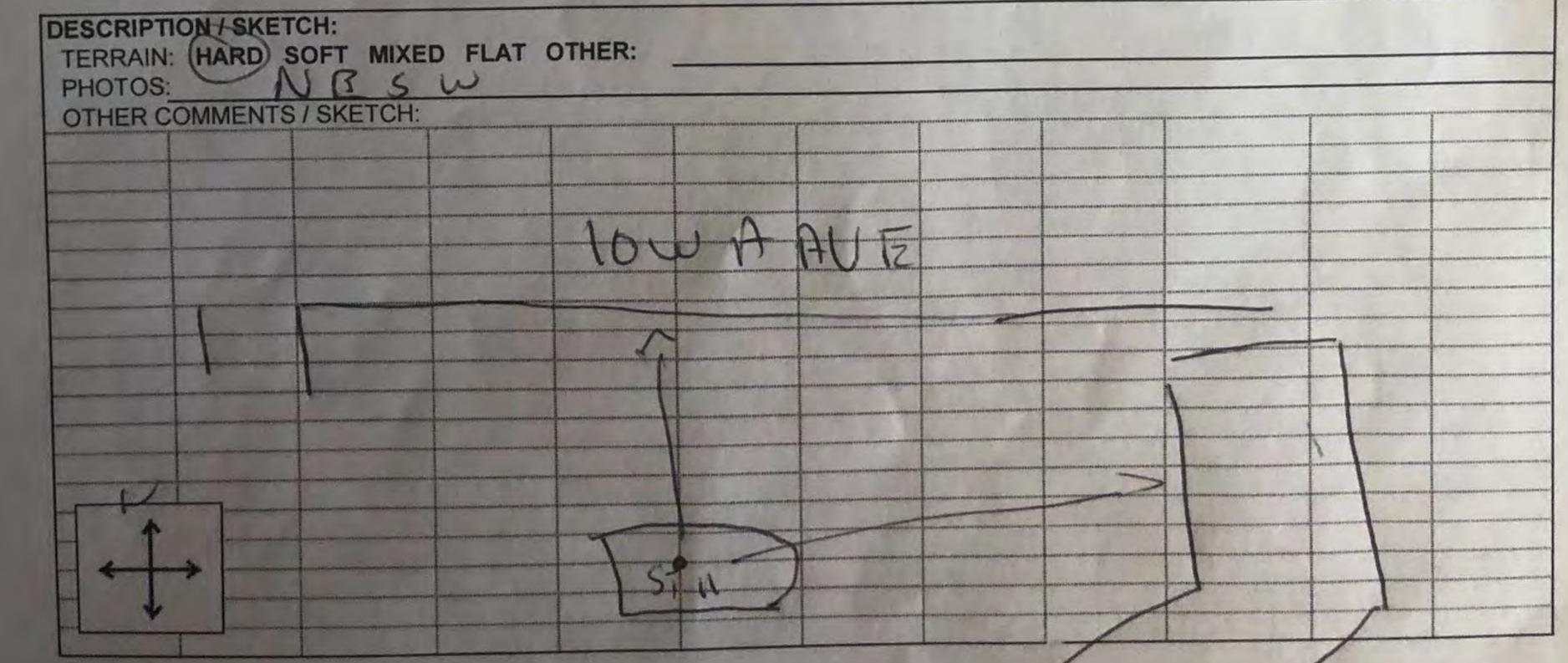
PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_

ROADWAY TYPE: \_\_\_\_\_

|              | TRAFFIC COUNT DURATION: _____ -MIN |       | SPEED |       | #2 COUNT |       | SPEED |       |
|--------------|------------------------------------|-------|-------|-------|----------|-------|-------|-------|
|              | NB/EB                              | SB/WB | NB/EB | SB/WB | NB/EB    | SB/WB | NB/EB | SB/WB |
| AUTOS:       |                                    |       |       |       |          |       |       |       |
| MED. TRUCKS: |                                    |       |       |       |          |       |       |       |
| HVY TRUCKS:  |                                    |       |       |       |          |       |       |       |
| BUSES:       |                                    |       |       |       |          |       |       |       |
| MOTORCYCLES: |                                    |       |       |       |          |       |       |       |

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER: \_\_\_\_\_



# FIELD NOISE MEASUREMENT DATA

PROJECT: RIVERSIDE H2 PROJ. # \_\_\_\_\_

**SITE IDENTIFICATION:** ST-12 OBSERVER(S): P. HARVIZ  
 ADDRESS: 1485 UNIVERSITY AVE  
 START DATE / TIME: 5-18 8:24 END DATE / TIME: \_\_\_\_\_

**METEOROLOGICAL CONDITIONS:**  
 TEMP: 68 °F HUMIDITY: 45 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: \_\_\_\_\_ MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVCST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

**ACOUSTIC MEASUREMENTS:**  
 INSTRUMENT: LD 2LT TYPE: 02 SERIAL #: 4005  
 CALIBRATOR: CAL 200 SERIAL #: 6645  
 CALIBRATION CHECK: PRE-TEST 114.06 dBA SPL POST-TEST 113.96 dBA SPL WINDSCREEN ✓  
 SETTINGS: AWEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

| REC #      | START       | END         | Leq         | Lmax        | L1          | L10         | L25         | L50         | L90         | L99         | Lmin        |
|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>182</u> | <u>8:26</u> | <u>8:46</u> | <u>59.4</u> | <u>73.5</u> | <u>66.0</u> | <u>62.9</u> | <u>60.2</u> | <u>56.9</u> | <u>52.3</u> | <u>48.9</u> | <u>47.8</u> |
|            |             |             |             |             |             |             |             |             |             |             |             |
|            |             |             |             |             |             |             |             |             |             |             |             |

COMMENTS: TRAFFIC NOISE FROM AUTO CLEANING @ AVIS

**SOURCE INFO AND TRAFFIC COUNTS:**  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 TRAFFIC COUNT DURATION: \_\_\_\_\_ -MIN SPEED #2 COUNT SPEED  
 NB/EB SB/WB NB/EB SB/WB NB/EB SB/WB NB/EB SB/WB  
 AUTOS: \_\_\_\_\_  
 MED. TRUCKS: \_\_\_\_\_  
 HVY TRUCKS: \_\_\_\_\_  
 BUSES: \_\_\_\_\_  
 MOTORCYCLES: \_\_\_\_\_  
 SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER: \_\_\_\_\_

**DESCRIPTION / SKETCH:**  
 TERRAIN: HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_  
 PHOTOS: N E S W  
 OTHER COMMENTS / SKETCH: \_\_\_\_\_

**FIELD NOISE MEASUREMENT DATA**

PROJECT: Riverside Housing Element PROJ. # 00660.20

**SITE IDENTIFICATION:** ST-13 **OBSERVER(S):** JLK  
**ADDRESS:** Near 1223 University Ave, Riverside, CA 92507  
**START DATE / TIME:** 5/17/21 - 1:00 pm **END DATE / TIME:** 5/17/21 - 1:20 pm

**METEOROLOGICAL CONDITIONS:**  
 TEMP: 70 °F HUMIDITY: 60 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 2-4 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVRCST PRTLY CLOUDY FOG RAIN OTHER:

**ACOUSTIC MEASUREMENTS:**  
 INSTRUMENT: LD 831 TYPE: 1 2 SERIAL #: 3786  
 CALIBRATOR: LD CAL 200 SERIAL #: 2416  
 CALIBRATION CHECK, BEFORE: 114.0 AFTER 119.0 WINDSCREEN X  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

| FILE / MEAS # | START TIME | END TIME | L               |      |      |      |      |      |      |      |      |  |
|---------------|------------|----------|-----------------|------|------|------|------|------|------|------|------|--|
|               |            |          | L <sub>eq</sub> | max  | 1.67 | 8.33 | 25   | 50   | 90   | 99   | min  |  |
| 350           | 1:00 pm    | 1:20 pm  | 65.8            | 77.7 | 72.7 | 69.7 | 66.8 | 63.5 | 58.7 | 57.4 | 56.9 |  |
|               |            |          |                 |      |      |      |      |      |      |      |      |  |
|               |            |          |                 |      |      |      |      |      |      |      |      |  |
|               |            |          |                 |      |      |      |      |      |      |      |      |  |

COMMENTS:

**NOISE SOURCE INFO:**  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER:  
 ROADWAY TYPE:  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:

**DESCRIPTION / SKETCH:**  
 TERRAIN: HARD SOFT MIXED FLAT OTHER:  
 PHOTOS:  
 OTHER COMMENTS / SKETCH:



FIELD NOISE MEASUREMENT DATA

PROJECT: Riverside Housing Element PROJ.# 00660.20

SITE IDENTIFICATION: ST-14 OBSERVER(S): JER  
 ADDRESS: Near 141 W Big Springs Rd, Riverside, CA 92507  
 START DATE / TIME: 5/17/2021 - 1:48pm END DATE / TIME: 5/17/2021 - 2:08pm

METEOROLOGICAL CONDITIONS:  
 TEMP: 66 °F HUMIDITY: 68 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 3-4 MPH DIR: N NE E SE  SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR  OVCST PRTLY CLOUDY FOG RAIN OTHER:

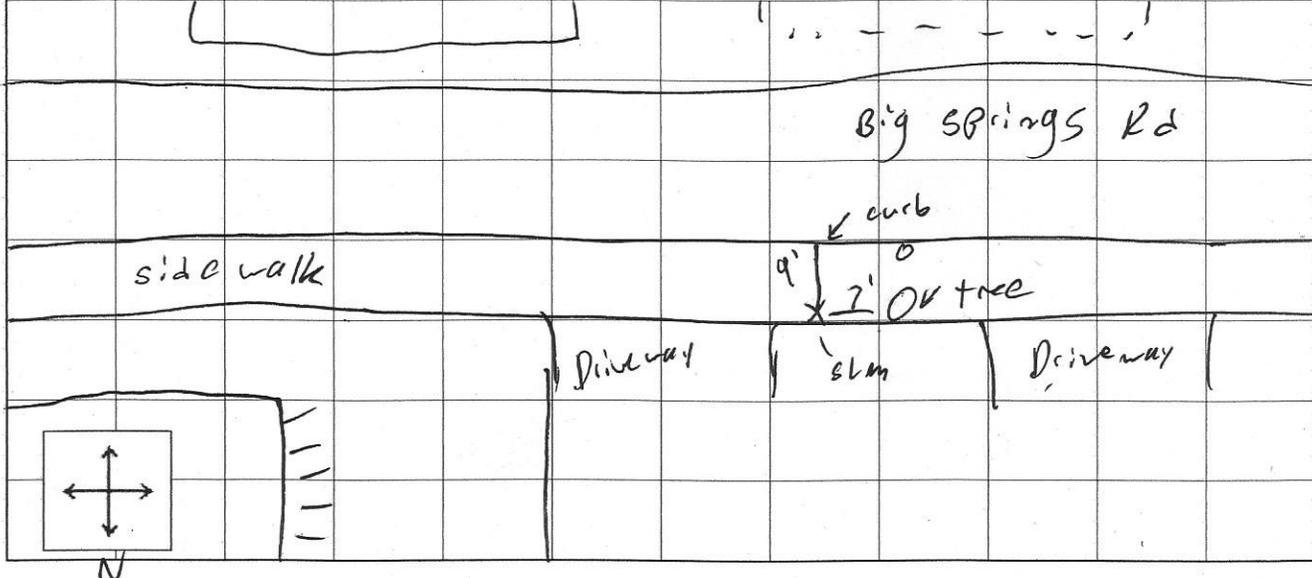
ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: LD 831 TYPE: 1 2 SERIAL #: 3786  
 CALIBRATOR: LD LAL 200 SERIAL #: 2416  
 CALIBRATION CHECK, BEFORE: 114.0 AFTER 113.9 WINDSCREEN   
 SETTINGS: A-WEIGHTED  SLOW  FAST FRONTAL RANDOM  ANSI OTHER:

| FILE / MEAS # | START TIME | END TIME | L <sub>eq</sub> | max  | 1.67 | 8.33 | 25   | L    | 50   | 90   | 99   | min |
|---------------|------------|----------|-----------------|------|------|------|------|------|------|------|------|-----|
| .351          | 1:48pm     | 2:08     | 58.3            | 71.9 | 66.6 | 62.1 | 58.0 | 54.7 | 50.5 | 48.6 | 46.7 |     |
|               |            |          |                 |      |      |      |      |      |      |      |      |     |
|               |            |          |                 |      |      |      |      |      |      |      |      |     |
|               |            |          |                 |      |      |      |      |      |      |      |      |     |

COMMENTS:

NOISE SOURCE INFO:  
 PRIMARY NOISE SOURCE:  TRAFFIC  AIRCRAFT  RAIL  INDUSTRIAL  AMBIENT OTHER:  
 ROADWAY TYPE:  
 OTHER SOURCES:  DIST. AIRCRAFT /  RUSTLING LEAVES /  DIST. BARKING DOGS /  BIRDS /  DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING /  DIST. TRAFFIC /  DIST. LANDSCAPING ACTIVITIES / OTHER:

DESCRIPTION / SKETCH:  
 TERRAIN:  HARD  SOFT  MIXED  FLAT OTHER:  
 PHOTOS:  
 OTHER COMMENTS / SKETCH:



# FIELD NOISE MEASUREMENT DATA

PROJECT: RIVERSIDE HT PROJ. # \_\_\_\_\_

SITE IDENTIFICATION: ST-15 OBSERVER(S): P. CLANDIN  
 ADDRESS: 5055 CENTRAL AVENUE  
 START DATE / TIME: \_\_\_\_\_ END DATE / TIME: \_\_\_\_\_

METEOROLOGICAL CONDITIONS:  
 TEMP: 71 °F HUMIDITY: 38 %R.H. WIND: CALM  LIGHT  MODERATE  VARIABLE  
 WINDSPEED: 2-5 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR  OVRCAST  PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: CD 4xT TYPE: 1 2 SERIAL #: 4005  
 CALIBRATOR: LOL 200 SERIAL #: 6645  
 CALIBRATION CHECK: PRE-TEST 117.96 dBA SPL POST-TEST \_\_\_\_\_ dBA SPL WINDSCREEN   
 SETTINGS:  A-WEIGHTED  SLOW  FAST  FRONTAL  RANDOM  ANSI OTHER: \_\_\_\_\_

| REC #      | START       | END        | L <sub>eq</sub> | L <sub>max</sub> | L <sub>1</sub> | L <sub>10</sub> <sup>83</sup> | L <sub>25</sub> | L <sub>50</sub> | L <sub>90</sub> | L <sub>99</sub> | L <sub>min</sub> |
|------------|-------------|------------|-----------------|------------------|----------------|-------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| <u>179</u> | <u>1245</u> | <u>105</u> | <u>71.1</u>     | <u>94.4</u>      | <u>78.0</u>    | <u>73.9</u>                   | <u>70.7</u>     | <u>66.6</u>     | <u>54.6</u>     | <u>47.9</u>     | <u>45.5</u>      |
|            |             |            |                 |                  |                |                               |                 |                 |                 |                 |                  |
|            |             |            |                 |                  |                |                               |                 |                 |                 |                 |                  |
|            |             |            |                 |                  |                |                               |                 |                 |                 |                 |                  |

COMMENTS: \_\_\_\_\_

SOURCE INFO AND TRAFFIC COUNTS:  
 PRIMARY NOISE SOURCE:  TRAFFIC  AIRCRAFT  RAIL  INDUSTRIAL  AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 TRAFFIC COUNT DURATION: \_\_\_\_\_ -MIN SPEED #2 COUNT SPEED  

|              | -MIN    |         | SPEED   |         | #2 COUNT |         | SPEED   |         |
|--------------|---------|---------|---------|---------|----------|---------|---------|---------|
|              | NB / EB | SB / WB | NB / EB | SB / WB | NB / EB  | SB / WB | NB / EB | SB / WB |
| AUTOS:       |         |         |         |         |          |         |         |         |
| MED. TRUCKS: |         |         |         |         |          |         |         |         |
| HVY TRUCKS:  |         |         |         |         |          |         |         |         |
| BUSES:       |         |         |         |         |          |         |         |         |
| MOTORCYCLES: |         |         |         |         |          |         |         |         |

SPEED ESTIMATED BY:  RADAR  DRIVING  OBSERVER

OTHER SOURCES:  DIST. AIRCRAFT  RUSTLING LEAVES  DIST. BARKING DOGS  BIRDS  DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING  DIST. TRAFFIC  DIST. LANDSCAPING ACTIVITIES  OTHER: \_\_\_\_\_

DESCRIPTION / SKETCH:  
 TERRAIN:  HARD  SOFT  MIXED  FLAT OTHER: \_\_\_\_\_  
 PHOTOS: ENC  
 OTHER COMMENTS / SKETCH: \_\_\_\_\_

CENTRAL AVE

# FIELD NOISE MEASUREMENT DATA

PROJECT: RIVERVIEW #2 PROJ. # \_\_\_\_\_

SITE IDENTIFICATION: 5-16 OBSERVER(S): \_\_\_\_\_  
 ADDRESS: 3267 LINCOLN AVE  
 START DATE / TIME: 5-17 1:31 END DATE / TIME: \_\_\_\_\_

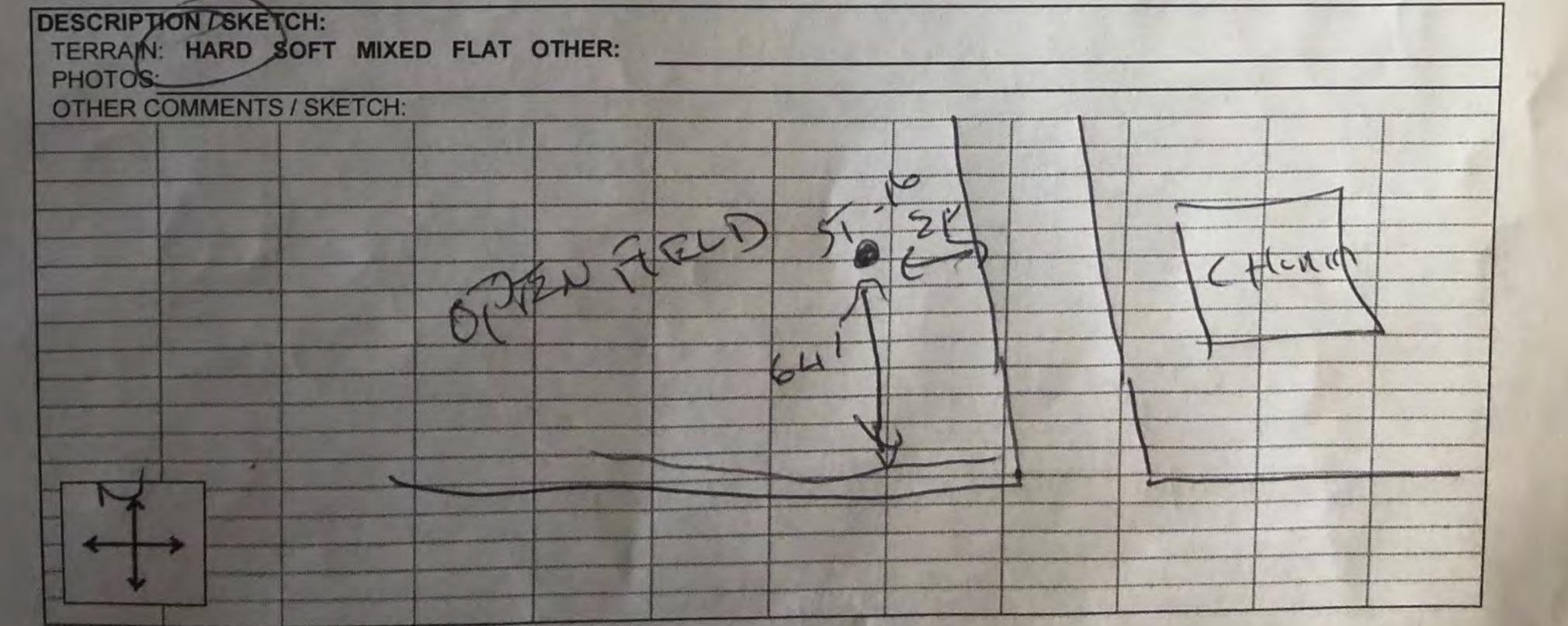
METEOROLOGICAL CONDITIONS:  
 TEMP: 69 °F HUMIDITY: 34 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 4-7 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVRCAST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: LD LxT TYPE: (1)2 SERIAL #: 21005  
 CALIBRATOR: AL 200 SERIAL #: 6645  
 CALIBRATION CHECK: PRE-TEST 114 dBA SPL POST-TEST \_\_\_\_\_ dBA SPL  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI WINDSCREEN ✓ OTHER: \_\_\_\_\_

| REC #     | START       | END         | L <sub>eq</sub> | L <sub>max</sub> | L <sub>1</sub> | L <sub>5</sub> | L <sub>25</sub> | L <sub>50</sub> | L <sub>90</sub> | L <sub>99</sub> | L <sub>min</sub> |
|-----------|-------------|-------------|-----------------|------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| <u>80</u> | <u>1:31</u> | <u>1:51</u> | <u>58.6</u>     | <u>76.2</u>      | <u>68.1</u>    | <u>60.1</u>    | <u>57.5</u>     | <u>55.4</u>     | <u>52.2</u>     | <u>50.1</u>     | <u>49.4</u>      |
|           |             |             |                 |                  |                |                |                 |                 |                 |                 |                  |
|           |             |             |                 |                  |                |                |                 |                 |                 |                 |                  |

COMMENTS: \_\_\_\_\_

SOURCE INFO AND TRAFFIC COUNTS:  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 TRAFFIC COUNT DURATION: \_\_\_\_\_ -MIN SPEED #2 COUNT SPEED  
 NB / EB SB / WB  
 AUTOS: \_\_\_\_\_  
 MED. TRUCKS: \_\_\_\_\_  
 HVY TRUCKS: \_\_\_\_\_  
 BUSES: \_\_\_\_\_  
 MOTORCYCLES: \_\_\_\_\_  
 SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER: \_\_\_\_\_



# FIELD NOISE MEASUREMENT DATA

PROJECT: RIVERSIDE HR PROJ. # \_\_\_\_\_

SITE IDENTIFICATION: ST-17 OBSERVER(S): P. HANCOCK  
 ADDRESS: 9328 MAGNOLIA AVENUE  
 START DATE / TIME: 5-17 10:36 END DATE / TIME: \_\_\_\_\_

**METEOROLOGICAL CONDITIONS:**

TEMP: 69 °F HUMIDITY: 40 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 1-2 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVCST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

**ACOUSTIC MEASUREMENTS:**

INSTRUMENT: LD LxT TYPE: 1 2 SERIAL #: 4005  
 CALIBRATOR: CAL 200 SERIAL #: 6645  
 CALIBRATION CHECK: PRE-TEST 114.08 dBA SPL POST-TEST 114.06 dBA SPL WINDSCREEN   
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

| REC #      | START        | END          | L <sub>eq</sub> | L <sub>max</sub> | L <sub>1</sub> | L <sub>10</sub> <sup>8.3</sup> | L <sub>25</sub> | L <sub>50</sub> | L <sub>90</sub> | L <sub>99</sub> | L <sub>min</sub> |
|------------|--------------|--------------|-----------------|------------------|----------------|--------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| <u>174</u> | <u>10:36</u> | <u>10:54</u> | <u>62.1</u>     | <u>78.0</u>      | <u>68.5</u>    | <u>66.0</u>                    | <u>63.2</u>     | <u>59.4</u>     | <u>50.8</u>     | <u>46.4</u>     | <u>44.0</u>      |
|            |              |              |                 |                  |                |                                |                 |                 |                 |                 |                  |
|            |              |              |                 |                  |                |                                |                 |                 |                 |                 |                  |

COMMENTS: \_\_\_\_\_

**SOURCE INFO AND TRAFFIC COUNTS:**

PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_

|              | TRAFFIC COUNT DURATION: _____ -MIN |       | SPEED |       | #2 COUNT |       | SPEED |       |
|--------------|------------------------------------|-------|-------|-------|----------|-------|-------|-------|
|              | NB/EB                              | SB/WB | NB/EB | SB/WB | NB/EB    | SB/WB | NB/EB | SB/WB |
| AUTOS:       |                                    |       |       |       |          |       |       |       |
| MED. TRUCKS: |                                    |       |       |       |          |       |       |       |
| HVY TRUCKS:  |                                    |       |       |       |          |       |       |       |
| BUSES:       |                                    |       |       |       |          |       |       |       |
| MOTORCYCLES: |                                    |       |       |       |          |       |       |       |

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER

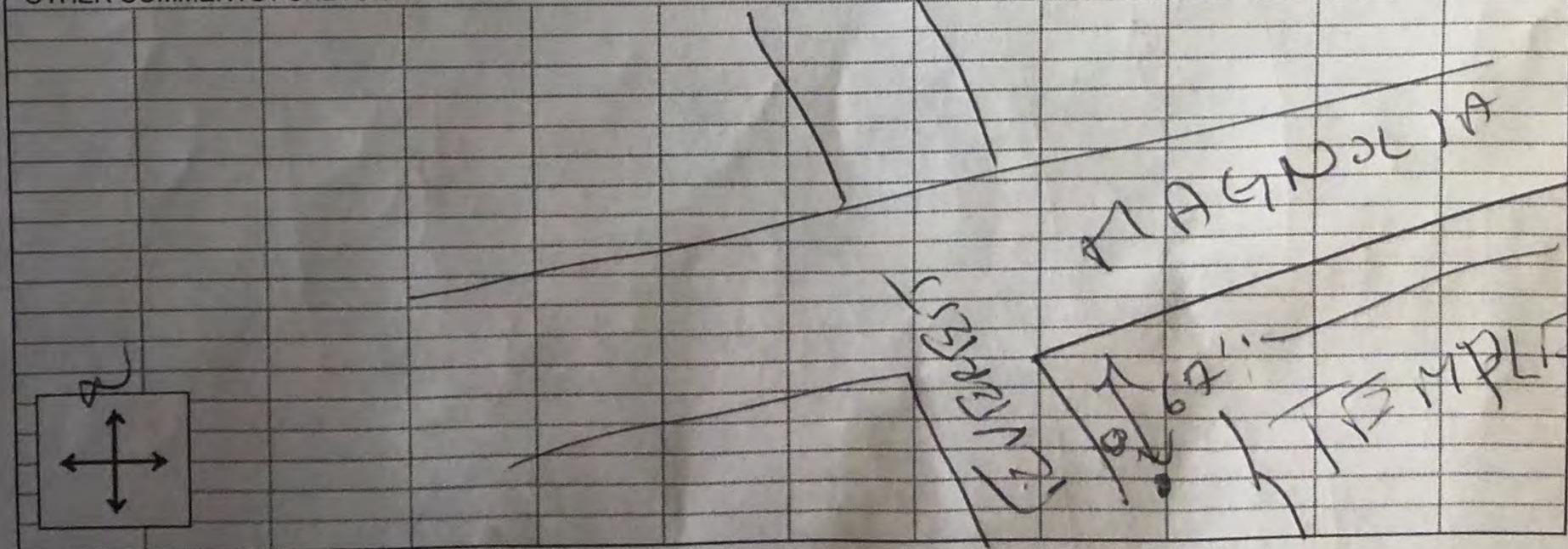
OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
 DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER: \_\_\_\_\_

**DESCRIPTION / SKETCH:**

TERRAIN: HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_

PHOTOS: DRS

OTHER COMMENTS / SKETCH: \_\_\_\_\_



**FIELD NOISE MEASUREMENT DATA**

PROJECT: Riverside Housing Element PROJ.# 00660.20

**SITE IDENTIFICATION:** ST-18 **OBSERVER(S):** JCR  
**ADDRESS:** Near 5500 Alessandro Blvd, Riverside, CA 92506  
**START DATE / TIME:** 5/17/20 - 2:29 pm **END DATE / TIME:** 5/17/20 - 2:49 pm

**METEOROLOGICAL CONDITIONS:**  
 TEMP: 67 °F HUMIDITY: 69 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 5-7 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVERCAST PRTLY CLOUDY FOG RAIN OTHER:

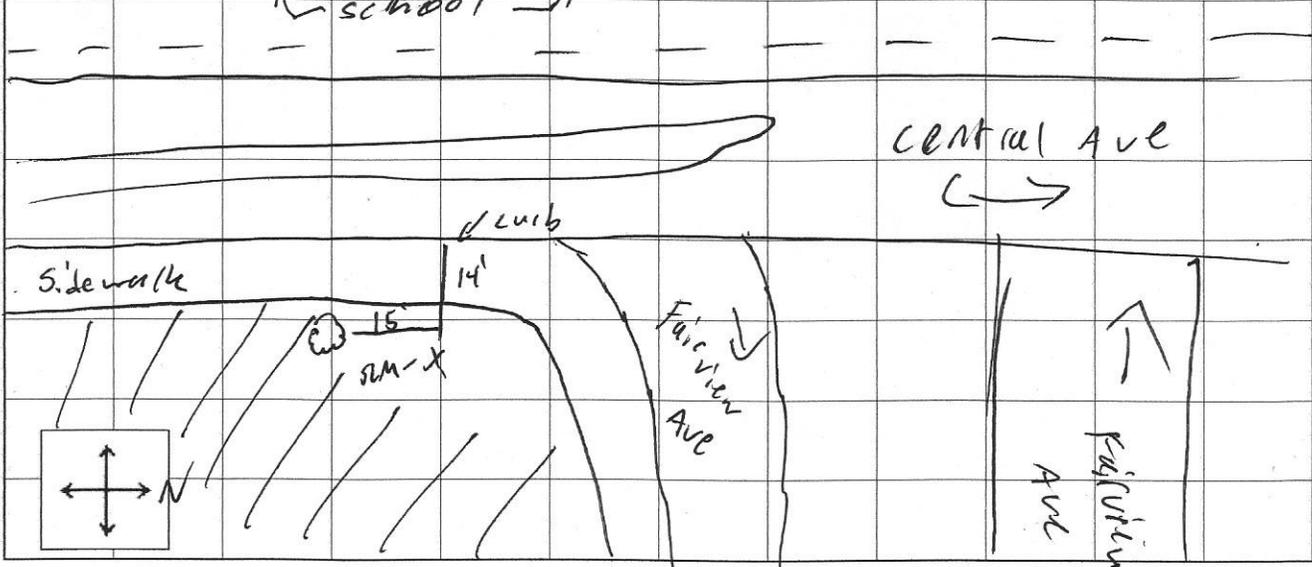
**ACOUSTIC MEASUREMENTS:**  
 INSTRUMENT: LD 831 TYPE: 12 SERIAL #: 3786  
 CALIBRATOR: LD CAL200 SERIAL #: 2916  
 CALIBRATION CHECK, BEFORE: 114.0 AFTER 114.0 WINDSCREEN X  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

| FILE / MEAS # | START TIME | END TIME | L <sub>eq</sub> | max  | 1.67 | 8.33 | 25   | L 50 | 90   | 99   | min  |
|---------------|------------|----------|-----------------|------|------|------|------|------|------|------|------|
| .352          | 2:29pm     | 2:49pm   | 71.5            | 80.3 | 77.6 | 76.1 | 73.4 | 68.7 | 59.0 | 53.1 | 52.1 |
|               |            |          |                 |      |      |      |      |      |      |      |      |
|               |            |          |                 |      |      |      |      |      |      |      |      |
|               |            |          |                 |      |      |      |      |      |      |      |      |
|               |            |          |                 |      |      |      |      |      |      |      |      |

COMMENTS:

**NOISE SOURCE INFO:**  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER:  
 ROADWAY TYPE:  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER:

**DESCRIPTION / SKETCH:**  
 TERRAIN: HARD SOFT MIXED FLAT OTHER:  
 PHOTOS:  
 OTHER COMMENTS / SKETCH:



FIELD NOISE MEASUREMENT DATA

PROJECT: Riverside Housing Element PROJ. # 00660.20

SITE IDENTIFICATION: 57-19 OBSERVER(S): JCK  
 ADDRESS: Near 4381 Brockton Ave, Riverside, CA  
 START DATE / TIME: 5/17/21 - 10:23 Am END DATE / TIME: 5/17/21 - 10:43

METEOROLOGICAL CONDITIONS:  
 TEMP: 62 °F HUMIDITY: 76 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: 3-4 MPH DIR: N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVCST PRTLY CLOUDY FOG RAIN OTHER:

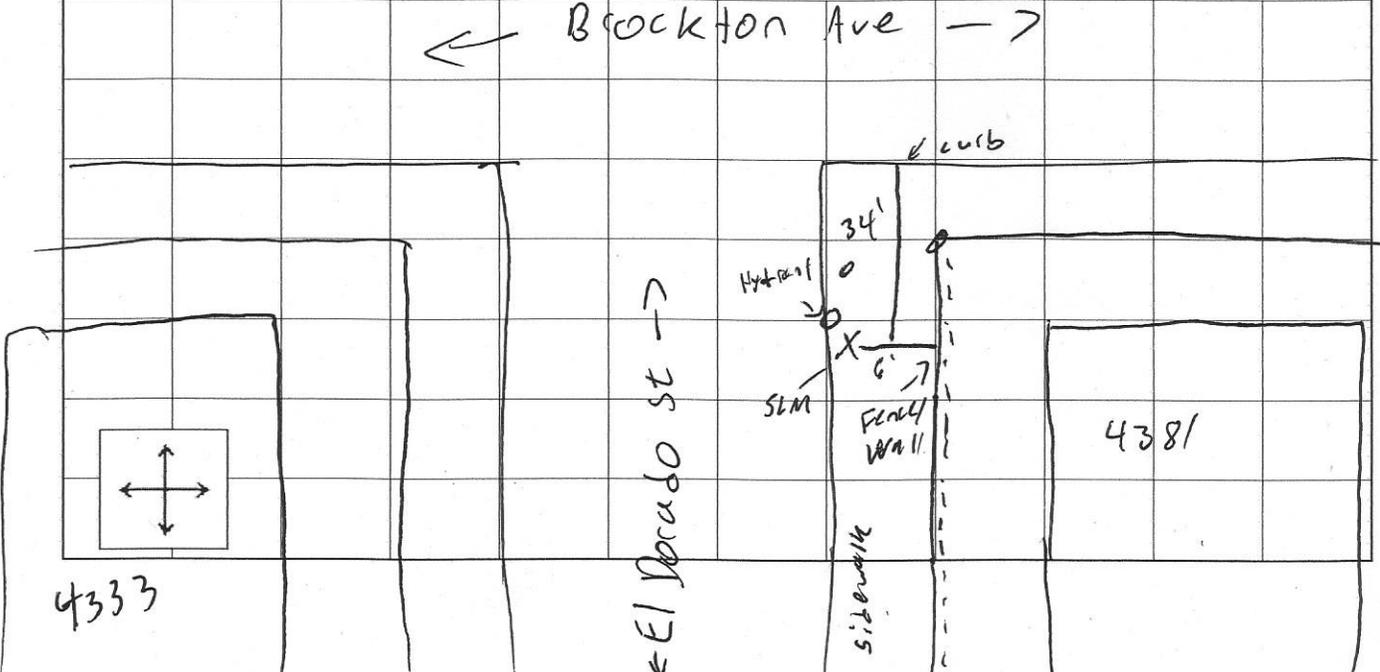
ACOUSTIC MEASUREMENTS:  
 INSTRUMENT: LP 831 TYPE: 1 2 SERIAL #: 3786  
 CALIBRATOR: LP CAL 200 SERIAL #: 2916  
 CALIBRATION CHECK, BEFORE: 119.0 AFTER 114.0 WINDSCREEN X  
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER:

| FILE / MEAS # | START TIME   | END TIME     | L <sub>eq</sub> | max         | 1.67        | 8.33        | 25          | L 50        | 90          | 99          | min         |
|---------------|--------------|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>346</u>    | <u>10:23</u> | <u>10:43</u> | <u>61.3</u>     | <u>76.0</u> | <u>68.5</u> | <u>64.8</u> | <u>61.4</u> | <u>58.7</u> | <u>54.1</u> | <u>52.0</u> | <u>50.6</u> |
|               |              |              |                 |             |             |             |             |             |             |             |             |
|               |              |              |                 |             |             |             |             |             |             |             |             |
|               |              |              |                 |             |             |             |             |             |             |             |             |

COMMENTS:

NOISE SOURCE INFO:  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER:  
 ROADWAY TYPE: Brockton Ave  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER: Dist. const.

DESCRIPTION / SKETCH:  
 TERRAIN: HARD SOFT MIXED FLAT OTHER:  
 PHOTOS:  
 OTHER COMMENTS / SKETCH:



# FIELD NOISE MEASUREMENT DATA

PROJECT: RIVER SIDE HR PROJ. # \_\_\_\_\_

SITE IDENTIFICATION: ST 20 OBSERVER(S): P. HARRIS  
 ADDRESS: 12010 ZALEY DRIVE  
 START DATE / TIME: 5-17 8:55 END DATE / TIME: \_\_\_\_\_

METEOROLOGICAL CONDITIONS:  
 TEMP: 68 °F HUMIDITY: 42 %R.H. WIND: CALM LIGHT MODERATE VARIABLE  
 WINDSPEED: \_\_\_\_\_ MPH DIR: \_\_\_\_\_ N NE E SE S SW W NW STEADY GUSTY  
 SKY: SUNNY CLEAR OVCST PRTLY CLOUDY FOG RAIN OTHER: \_\_\_\_\_

ACOUSTIC MEASUREMENTS:

INSTRUMENT: LD LxT TYPE: 02 SERIAL #: 4005  
 CALIBRATOR: CAL 200 SERIAL #: 6645  
 CALIBRATION CHECK: PRE-TEST 113.87 dBA SPL POST-TEST 114.01 dBA SPL WINDSCREEN   
 SETTINGS: A-WEIGHTED SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

| REC #      | START       | END         | L <sub>eq</sub> | L <sub>max</sub> | L <sub>1</sub> | L <sub>5</sub> | L <sub>25</sub> | L <sub>50</sub> | L <sub>90</sub> | L <sub>99</sub> | L <sub>min</sub> |
|------------|-------------|-------------|-----------------|------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| <u>174</u> | <u>8:55</u> | <u>9:15</u> | <u>48.8</u>     | <u>70.2</u>      | <u>56.0</u>    | <u>50.4</u>    | <u>47.2</u>     | <u>44.8</u>     | <u>41.9</u>     | <u>40.6</u>     | <u>39.6</u>      |
|            |             |             |                 |                  |                |                |                 |                 |                 |                 |                  |
|            |             |             |                 |                  |                |                |                 |                 |                 |                 |                  |
|            |             |             |                 |                  |                |                |                 |                 |                 |                 |                  |

COMMENTS: \_\_\_\_\_

SOURCE INFO AND TRAFFIC COUNTS:  
 PRIMARY NOISE SOURCE: TRAFFIC AIRCRAFT RAIL INDUSTRIAL AMBIENT OTHER: \_\_\_\_\_  
 ROADWAY TYPE: \_\_\_\_\_  
 TRAFFIC COUNT DURATION: \_\_\_\_\_ -MIN SPEED \_\_\_\_\_ #2 COUNT SPEED \_\_\_\_\_  

|              | NB / EB | SB / WB |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|
| AUTOS:       |         |         |         |         |         |         |         |         |
| MED. TRUCKS: |         |         |         |         |         |         |         |         |
| HVY TRUCKS:  |         |         |         |         |         |         |         |         |
| BUSES:       |         |         |         |         |         |         |         |         |
| MOTORCYCLES: |         |         |         |         |         |         |         |         |

SPEED ESTIMATED BY: RADAR / DRIVING / OBSERVER  
 OTHER SOURCES: DIST. AIRCRAFT / RUSTLING LEAVES / DIST. BARKING DOGS / BIRDS / DIST. INDUSTRIAL  
DIST. CHILDREN PLAYING / DIST. TRAFFIC / DIST. LANDSCAPING ACTIVITIES / OTHER: \_\_\_\_\_



# Noise Measurement Photographs



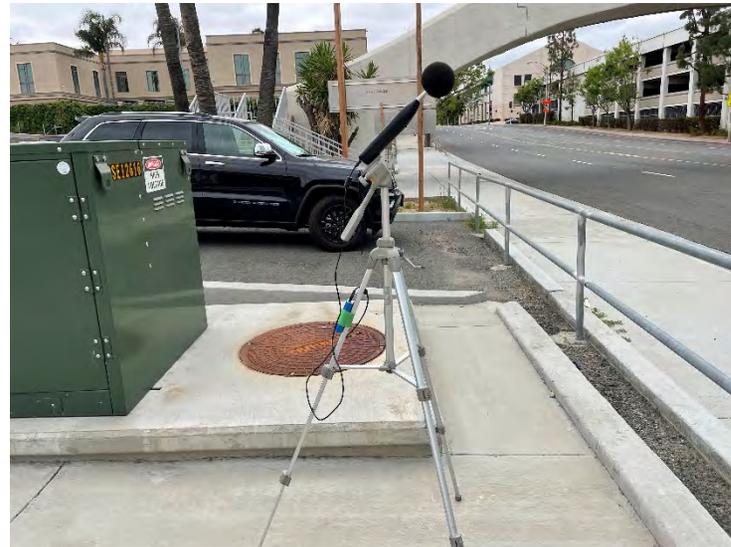
ST01 Looking Northeast



ST01 Looking Northwest



ST01 Looking Southeast



ST01 Looking Southwest

# Noise Measurement Photographs



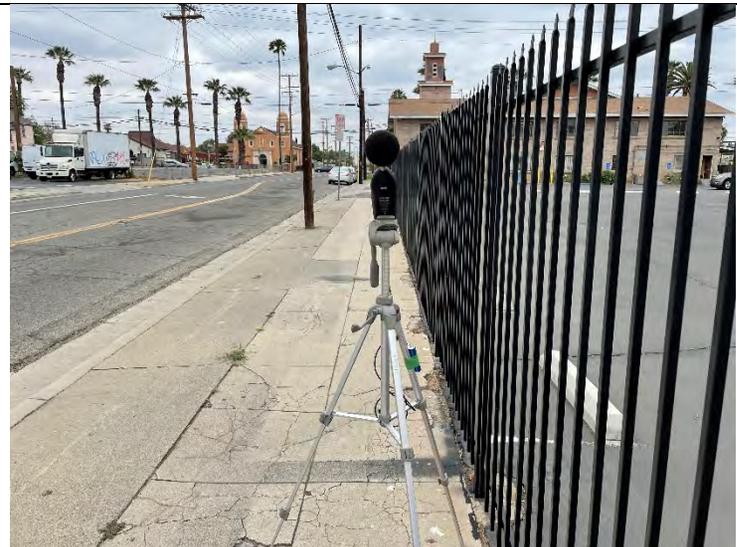
ST02 Looking Northeast



ST02 Looking Northwest



ST03 Looking Southeast



ST02 Looking Southwest

# Noise Measurement Photographs



ST03 Looking North



ST03 Looking East



ST03 Looking South



ST03 Looking West

# Noise Measurement Photographs



ST04 Looking North



ST04 Looking East



ST04 Looking South



ST04 Looking West

# Noise Measurement Photographs



ST05 Looking North

# Noise Measurement Photographs



ST06 Looking North



ST06 Looking East



ST06 Looking South

# Noise Measurement Photographs



ST07 Looking North



ST07 Looking South

# Noise Measurement Photographs



ST8 Looking North



ST8 Looking East



ST8 Looking West

# Noise Measurement Photographs



ST10 Looking North



ST10 Looking East



ST10 Looking South



ST10 Looking West

# Noise Measurement Photographs



ST11 Looking South



ST11 Looking East

# Noise Measurement Photographs



ST12 Looking North



ST12 Looking East



ST12 Looking West

# Noise Measurement Photographs



ST13 Looking North



ST13 Looking East



ST13 Looking South



ST13 Looking West

# Noise Measurement Photographs



ST14 Looking North



ST14 Looking East



ST14 Looking South



ST14 Looking West

# Noise Measurement Photographs



ST15 Looking East



ST15 Looking West

# Noise Measurement Photographs



ST16 Looking North



ST16 Looking South



ST16 Looking West

# Noise Measurement Photographs



ST17 Looking North



ST17 Looking East



ST17 Looking South

# Noise Measurement Photographs



ST18 Looking North



ST18 Looking East



ST18 Looking South



ST18 Looking West

# Noise Measurement Photographs



ST19 Looking Northeast



ST19 Looking Northwest



ST19 Looking Southeast



ST19 Looking Southwest

# Noise Measurement Photographs



ST20 Looking North



ST20 Looking South



ST20 Looking West

# Noise Measurement Photographs



LT02 Looking North

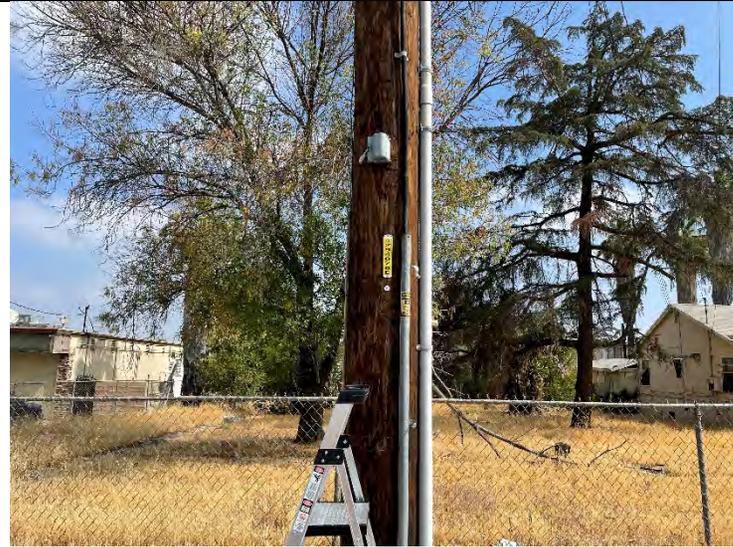


LT02 Looking South



LT02 Looking West

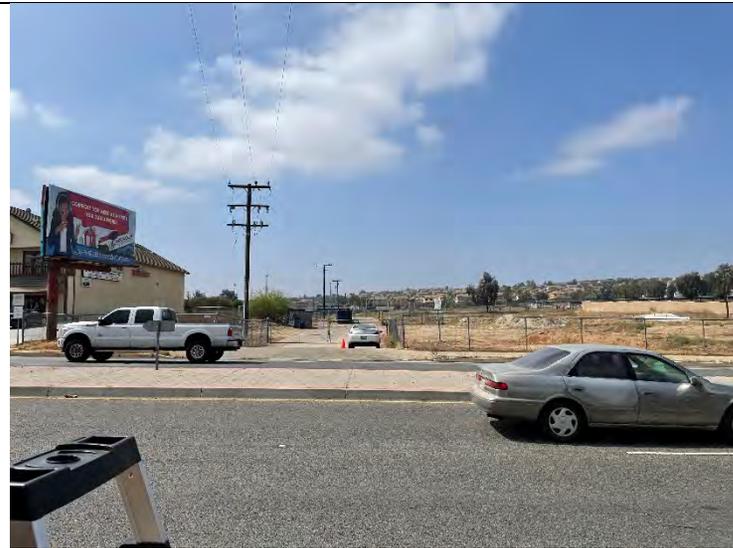
# Noise Measurement Photographs



LT03 Looking North



LT03 Looking East



LT03 Looking South



LT03 Looking West

# Noise Measurement Photographs



LT04 Looking North



LT04 Looking East



LT04 Looking South



LT04 Looking West