APPENDIX G

Jurisdictional Delineation Report
CV Link Project

Coachella Valley
Riverside County, California
FPN: ATPL 6164 (022)

Prepared by

Amec Foster Wheeler Environment & Infrastructure, Inc.
3120 Chicago Avenue, Suite 110
Riverside, CA 92507

Revised November 10, 2016

JURISDICTIONAL DELINEATION REPORT

CV LINK PROJECT

COACHELLA VALLEY
RIVERSIDE COUNTY, CALIFORNIA
FEDERAL PROJECT NO. ATPL 6164 (022)

Prepared for:
Terra Nova Planning & Research Inc.
42635 Melanie Place, Suite 101
Palm Desert, California 92211
Office: (760) 341-4800

Contact: John D. Criste AICP

Prepared by:
Amec Foster Wheeler Environment & Infrastructure, Inc.
3120 Chicago Avenue, Suite 110
Riverside, California 92507

Principal Investigator:
Scot Chandler

Revised November 10, 2016

TABLE OF CONTENTS

PAGE

LIST OF TABLES

LIST OF FIGURES

TABLE OF CONTENTS (Cont.)

LIST OF APPENDICES

ACRONYMS AND ABBREVIATIONS

Amec Foster Wheeler	Amec Foster Wheeler Environment and Infrastructure, Inc.
AMSL	above mean sea level
CEQA	California Environmental Quality Act
CDFW	California Department of Fish and Wildlife
CWA	Clean Water Act
EPA	Environmental Protection Agency
FAC	facultative
FACU	facultative upland
FACW	facultative wetland
GIS	Geographic Information System
IP	Individual Permit
NEPA	National Environmental Policy Act
NL	not listed
NWI	National Wetlands Inventory
NWP	Nationwide Permit
OBL	obligate
OHWM	ordinary high water mark
Rapanos	Rapanos v. U.S. and Carabell v. U.S.
RPW	relatively permanent waterway
RWQCB	Regional Water Quality Control Board
SWANCC	Solid Waste Agency of Northern Cook County v. USACE
TNW	traditionally navigable waterway
UPL	upland
USACE	U.S. Army Corps of Engineers
USDA	United States Department of Agriculture, Natural Resources Conservation Service
USFWS	United States Fish and Wildlife Service
USGS	U.S. Geological Survey
WSC	Waters of the State of California
WUS	Waters of the United States

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1.0 INTRODUCTION

The Coachella Valley Association of Governments (CVAG) is proposing to develop the CV Link multi-modal transportation facility (proposed project) in the Coachella Valley area of Riverside County. Terra Nova Research and Planning, Inc. retained Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler) to determine the potential for impacts to jurisdictional waters from the development of the proposed project.

This report presents regulatory framework, methods, and results of a delineation of jurisdictional waters, wetlands, and associated riparian habitat potentially impacted by the development of the proposed project. The purpose of the delineation is to determine the extent of state and federal jurisdiction within the project area potentially subject to regulation by the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act (CWA), Regional Water Quality Control Board (RWQCB) under Section 401 of the CWA and Porter Cologne Water Quality Control Act, and California Department of Fish and Wildlife (CDFW) under Section 1602 of the California Fish and Game Code.

1.1 Project Description

The proposed project is a 49± mile non-motorized, multi-modal transportation path network that passes through some of the most developed and populated portions of the Coachella Valley, providing access and connectivity between residential, commercial, recreational, institutional, and other land uses throughout the region, and providing recreational opportunities for pathway users. It is also anticipated that the project will contribute to local reductions in traffic volumes and associated air pollutants. The CV Link project includes approximately 74.47 miles of possible route alignments, those portions of which that may encroach into jurisdictional waters of the State or US have been assessed in this report. CV Link will provide an alternative to automobile transportation, thereby hopefully providing a means to reduce traffic, congestion, and air pollution, and improve community health and fitness. CV Link will also provide a means of low cost transportation for people living in disadvantaged communities.

The pathway route largely follows, and is to be built upon, the existing maintenance and service roads located atop flood control channel embankments and levees of the region's principal watercourses, including Chino Wash, Tahquitz Creek, Whitewater River Floodplain, and the Whitewater River Stormwater Channel/Coachella Valley Stormwater Channel. In some locations, the pathway shares right-of-way with roads and provides direct access to key commercial districts and recreational and institutional venues.

This jurisdictional delineation evaluates potential impacts associated with the near-term construction and long-term operation of CV Link's core alignments, from Palm Springs to Coachella, and mid-term enhancements of the core route, which may include the addition and enhancement of other paths, access points, and grade separations. Long-term future extensions (Phases 2 and 3) of the core route to Desert Hot Springs and the Salton Sea, which would extend the pathway route to a buildout length of 88± miles, are envisioned but not fully conceptualized and are not part of project analyzed in this report.

The proposed project also incorporates and expands the Tahquitz Creek Trail in Palm Springs between South Palm Canyon Drive and the Whitewater Channel. The western termini are at Highway 111 (North Palm Canyon Drive) in northern Palm Springs (the Palm Springs Visitor Center at Tramway Road – access point for the Aerial Tram) and at South Palm Canyon Drive in central Palm Springs (providing access to adjacent commercial services and to Downtown Palm Springs, as well as the Tahquitz Canyon Visitor Center.

The eastern terminus of the CV Link core alignment is at Airport Boulevard (Ave 56) and the Coachella Valley Stormwater Channel (CVSC) in the city of Coachella and the unincorporated community of Thermal.

CV Link will include a wide variety of support structures including but not limited to recharge facilities for low-speed electric vehicles (LSEVs), shade structures (some solar and some with WIFI), drinking fountains, restrooms, rental/share stations for bicycles and LSEVs, unique “wayfinding” colored crosswalks, distinctive groups of angled “light tubes”, LED in-pavement lights, lighted bollards, solar trash/recycling compactors, roadway over- and undercrossings, channel bridges, benches, and interpretive signs.

Beyond this point, a future extension of CV Link will continue along the Whitewater River to the Salton Sea, passing through scenic rural agricultural areas with sparse populations. Another future extension parallels Gene Autry Trail to Desert Hot Springs, terminating at State Highway 62 in the vicinity of Mission Creek. Future extensions are also planned into eastern Coachella (La Entrada) and the Belardo Road extension in central Palm Springs. These future projects are not addressed in this report.

1.2 Project Location

The proposed Project (core alignment) is located in the Coachella Valley of central Riverside County, California (Figure 1). The various routes that make up the CV Link core alignment will connect the cities of Palm Springs, Cathedral City, Rancho Mirage, La Quinta, Palm Desert, Indian Wells, Indio, and Coachella, Riverside County, California. CV Link is a multi-jurisdictional Project. It includes eight (8) incorporated cities, unincorporated county land, reservations of three Native American tribes (Agua Caliente, Twenty-Nine Palms and Cabazon Bands). The Link will provide access to a wide range of community resources, as well as thousands of acres of local, state, and federal parkland and open space. The Core Route of the CV Link will provide a 49± mile long continuous multi-modal route with 64.34 miles of route (all alignments and jurisdictions) being analyzed. The Core Route would be 44.05± miles without Rancho Mirage, and 40.53± miles if Rancho Mirage and Indian Wells are not included. The total miles of route considered (including all Core Alignments) would be 57.62± miles without Rancho Mirage, and 48.2± miles without Rancho Mirage and Indian Wells. Future extensions will continue south to the Salton Sea and north to Desert Hot Springs.

The northwest end of the project begins at the intersection of Tram Way and North Palm Canyon Drive (State Route 111) in the city of Palm Springs, and the southeast end of the core alignment occurs where the Whitewater River crosses Airport Boulevard in the community of Thermal. Specifically, the study area is located within the following sections:

- Sections 33 through 36 of Township 3 South, Range 4 East,

- Sections 01 and 03 of Township 4 South, Range 4 East,
- Sections 01, 03 and 22 to 24 of Township 4 South, Range 4 East,
- Sections 06, 07, 19, and 30 of Township 4 South, Range 5 East

The CV Link alignments are all shown on the Palm Springs, California, United States Geological Survey (USGS) 7.5-minute topographic quadrangle (Figure 2).

- Sections 06, 07, 19, and 30 of Township 4 South, Range 5 East as found on the Cathedral City quadrangle.

The study area is also located in:
- Sections 08, 17, 20, 21, 28, 29, and 32 to 35, of Township 4 South, Range 5 East,
- Sections 02 and 03 of Township 5 South, Range 5 East, and
- Sections 07, 11, and 12 of Township 5 South, Range 6 East, as shown on the Cathedral City quadrangle. Sections 07, 11, and 12 of Township 5 South, Range 6 East, and shown on the Rancho Mirage quadrangle.

The study area is also located in:
- Section 13, of Township 5 South, Range 5 East, and
- Sections 17 and 18 of Township 5 South, Range 6 East, as shown on the Rancho Mirage quadrangle.

The study area is also located in:
- Sections 13 to 15, of Township 5 South, Range 7 East, Sections 19, 22, 29, 30, and 32 of Township 5 South, Range 8 East, and Sections 04, 05, 09, 10, 15, and 22 of Township 6 South, Range 8 East, as shown on the Indio quadrangle.

The study area is also located in:
- Sections 15, 16, and 22 to 24, of Township 5 South, Range 6 East, and
- Sections 19, 21, and 28 to 30 of Township 5 South, Range 7 East, as shown on the La Quinta quadrangle.

The geographic coordinates near the middle of the project are 33.74261° North latitude and 116.39785° West longitude (Figure 2).

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LEGEND

Current Alignment 2016

Agua Caliente Indian Reservation

Coachella Valley MSHCP

CVAG

0 1 2 3

Miles

Source: CV Link_Construction Documents_ 30% Plan Set, Bing Maps

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FIGURE 1

CV/LINK

Jurisdictional Delineation Report

Project Overview

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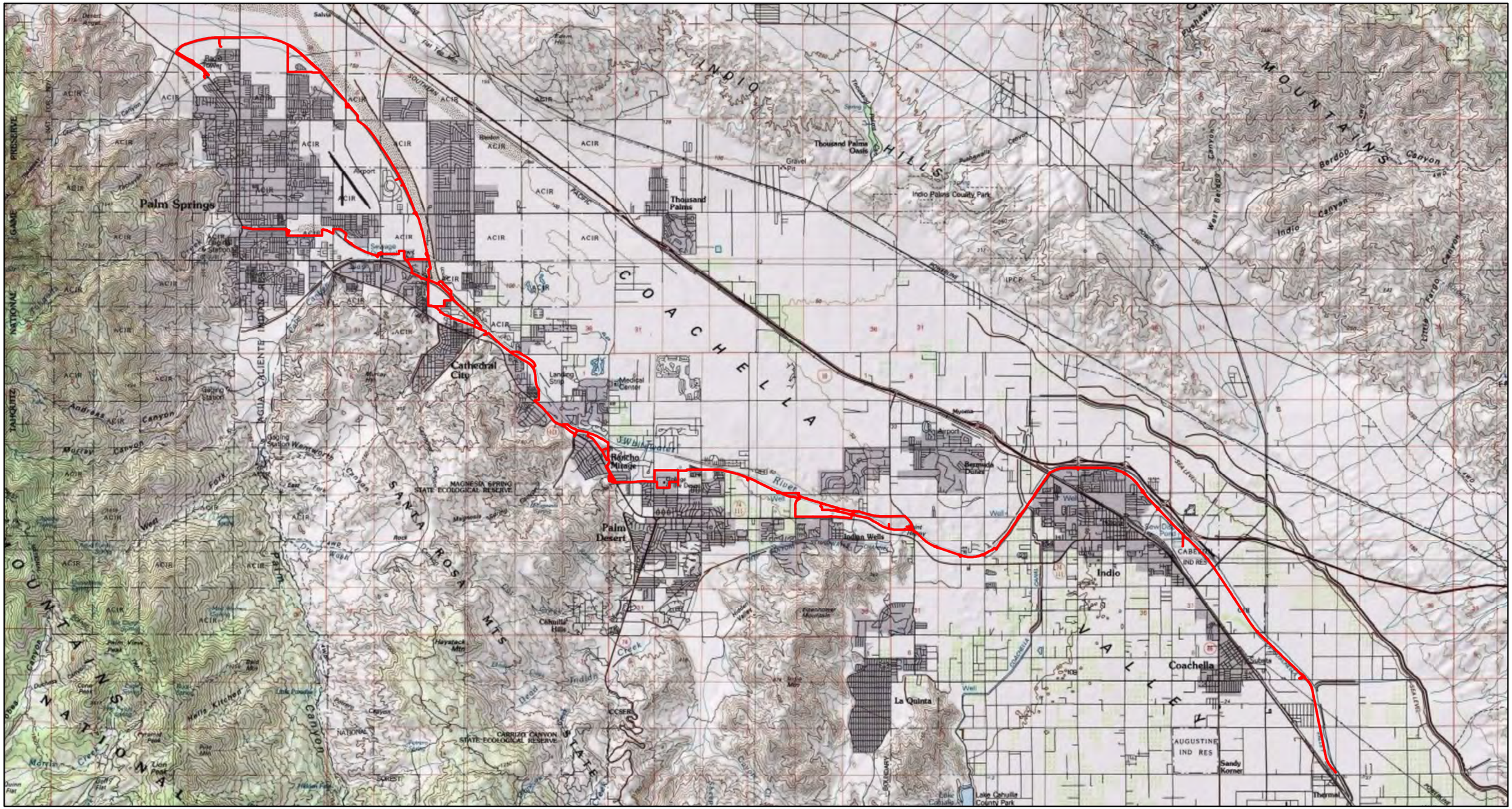

LEGEND

Current alignment 2016

CVAG

0 2

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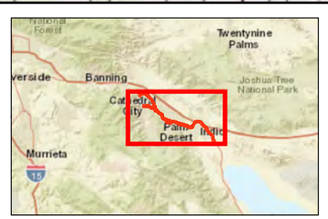

FIGURE 2

CV Link
Jurisdictional Delineation Report

USGS Topographic Map

Source: CV Link_Construction Documents_ 30% Plan Set, USGS topo 100k Palm springs quad

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2.0 REGULATORY FRAMEWORK

2.1 U.S. Army Corps of Engineers

The USACE regulates the discharge of dredged or fill material in waters of the United States (WUS) pursuant to Section 404 of the CWA.

2.1.1 Waters of the U.S.

CWA regulations (33 CFR 328.3(a)) define WUS as follows:

1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
2. All interstate waters including interstate wetlands;
3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including any such waters: (i) Which are or could be used by interstate or foreign travelers for recreational or other purposes; or (ii) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or (iii) Which are used or could be used for industrial purpose by industries in interstate commerce;
4. All impoundments of waters otherwise defined as WUS under the definition;
5. Tributaries of WUS;
6. The territorial seas;
7. Wetlands adjacent to WUS (other than waters that are themselves wetlands).

The USACE delineates non-wetland waters in the Arid West Region by identifying the ordinary high water mark (OHWM) in ephemeral and intermittent channels (USACE, 2008a). The OHWM is defined in 33 CFR 328.3(e) as:

> "…that line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impresses on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas."

Identification of OHWM involves assessments of stream geomorphology and vegetation response to the dominant stream discharge. Determining whether any non-wetland water is a jurisdictional WUS involves further assessment in accordance with the regulations, case law, and clarifying guidance as discussed below.

2.1.2 Wetlands and Other Special Aquatic Sites

Wetlands are defined at 33 CFR 328.3(b) as “those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.”

Special aquatic sites are geographic areas, large or small, possessing special ecological characteristics of productivity, habitat, wildlife protection, or other important and easily disrupted ecological values. These areas are generally recognized as significantly influencing or positively contributing to the general overall environmental health or vitality of the entire ecosystem of a region. Special aquatic sites include sanctuaries and refuges, wetlands, mud flats, vegetated shallows, coral reefs, and riffle and pool complexes. They are defined in 40 CFR 230 Subpart E.

2.1.3 Supreme Court Decisions

2.1.3.1 Solid Waste Agency of Northern Cook County

On January 9, 2001, the Supreme Court of the United States issued a decision on Solid Waste Agency of Northern Cook County v. USACE, et al. (SWANCC) with respect to whether the USACE could assert jurisdiction over isolated waters. The ruling stated that the USACE does not have jurisdiction over “non-navigable, isolated, intrastate” waters.

2.1.3.2 Rapanos/Carabell

In the 2006 Supreme Court cases of Rapanos v. United States and Carabell v. United States (herein referred to as Rapanos), the court attempted to clarify the extent of USACE jurisdiction under the CWA. The nine Supreme Court justices issued five separate opinions (one plurality opinion, two concurring opinions, and two dissenting opinions) with no single opinion commanding a majority of the Court. In light of the Rapanos decision, the USACE will assert jurisdiction over a traditional navigable waterway (TNW), wetlands adjacent to TNWs, non-navigable tributaries of TNWs that are a relatively permanent waterway (RPW) where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months) and wetlands that directly abut such tributaries. The USACE will decide jurisdiction over the following waters based on a fact-specific analysis to determine whether they have a “significant nexus” with a TNW: non-navigable tributaries that are not RPWs, wetlands adjacent to non-navigable tributaries that are not RPWs, and wetlands adjacent to but that do not directly abut a non-navigable RPW.

A significant nexus determination includes an assessment of flow characteristics and functions of the tributary itself and the functions performed by all wetlands adjacent to the tributary. This assessment is to indicate whether they significantly affect the chemical, physical and biological integrity of downstream TNWs. Analysis of potentially jurisdictional streams includes consideration of hydrologic and ecologic factors. The consideration of

hydrological factors includes volume, duration, and frequency of flow, proximity to traditional navigable waters, size of watershed, average annual rainfall, and average annual winter snow pack. The consideration of ecological factors also includes the ability for tributaries to carry pollutants and flood waters to a TNW, the ability of a tributary to provide aquatic habitat that supports a TNW, the ability of wetlands to trap and filter pollutants or store flood waters, and maintenance of water quality.

2.2 Regional Water Quality Control Board

The RWQCB regulates activities pursuant to Section 401(a)(1) of the CWA. Section 401 of the CWA specifies that certification from the State is required for any applicant requesting a federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities that may result in any discharge into navigable waters. Through the Porter Cologne Water Quality Control Act, the RWQCB asserts jurisdiction over Waters of the State of California (WSC) which is generally the same as WUS, but may also include isolated waterbodies. The Porter Cologne Act defines WSC as “surface water or ground water, including saline waters, within the boundaries of the state”.

2.3 California Department of Fish and Wildlife

The CDFW regulates water resources under Section 1600-1616 of the California Fish and Game Code. Section 1602 states:

> “An entity may not substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake (CDFW, 2015).”

Evaluation of CDFW jurisdiction followed guidance in the Fish and Game Code and *A Review of Stream Processes and Forms in Dryland Watersheds*. In general, under 1602 of the Fish and Game Code, CDFW jurisdiction extends to the maximum extent or expression of a stream on the landscape (CDFW, 2010). It has been the practice of CDFW to define a stream as “a body of water that flows perennially or episodically and that is defined by the area in a channel which water currently flows, or has flowed over a given course during the historic hydrologic course regime, and where the width of its course can reasonably be identified by physical or biological indicators” (Brady and Vyverberg, 2013). Thus, a channel is not defined by a specific flow event, nor by the path of surface water as this path might vary seasonally. Rather, it is CDFW's practice to define the channel based on the topography or elevations of land that confine the water to a definite course when the waters of a creek rise to their highest point.

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3.0 METHODS

Prior to conducting delineation fieldwork, the following literature and materials were reviewed:

- Aerial photographs of the project site at a scale of 1:7,200 to determine the potential locations of jurisdictional waters or wetlands;
- USGS topographic map (Figure 2) to determine the presence of any "blue line" drainages or other mapped water features;
- USDA soil mapping data;
- USFWS NWI maps to identify areas mapped as wetland features; and
- Delineation reports for the Whitewater River (ICF, 2014) and Coachella Valley Stormwater Channel (Amec, 2016).

Field surveys of the study area were conducted by Amec Foster Wheeler biologist Scot Chandler on 21, 22, and 27 to 30 June and 1 and 7 July 2016. Surveys consisted of walking the entire study area and identifying potentially jurisdictional water features. Visual observations of vegetation types and changes in hydrology were used to locate areas for evaluation. Weather conditions during delineation fieldwork were conducive for surveying with generally clear skies.

USACE regulated WUS, including wetlands, and RWQCB WSC were delineated according to the methods outlined in *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE, 2008a). The extent of WUS was determined based on indicators of an OHWM. The OHWM width was measured at points wherever clear changes in width occurred.

Federally regulated wetlands were identified based on the *Wetlands Delineation Manual* (USACE, 1987) and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE, 2008b). Additional data was recorded to determine if an area fulfilled the wetland criteria parameters. Three criteria must be fulfilled in order to classify an area as a wetland under the jurisdiction of the USACE: 1) a predominance of hydrophytic vegetation, 2) the presence of hydric soils, and 3) the presence of wetland hydrology. Details of these criteria are described below:

- **Hydrophytic Vegetation.** The hydrophytic vegetation criterion is satisfied at a location if greater than 50% of all the dominant species present within the vegetation unit have a wetland indicator status of obligate (OBL), facultative wetland (FACW), or facultative (FAC) (USACE, 2008b). An OBL indicator status refers to plants that almost always occur in wetlands. A FACW indicator status refers to plants that usually occur in wetlands, but may occur in non-wetlands. A FAC indicator status refers to plants that occur in wetlands and non-wetlands. Other wetland indicator statuses include facultative upland (FACU) which refers to plants that usually occur in non-

wetlands, but may occur in wetlands, upland (UPL) for species that almost never occur in wetlands, and NL for plants that are not listed on the *National Wetland Plant List*. The wetland indicator status used for this report follows the 2013 National Wetland Plant List (Arid West Region) (Lichvar, 2014).

- **Hydric Soils**. The hydric soil criterion is satisfied at a location if soils in the area can be inferred or observed to have a high groundwater table, if there is evidence of prolonged soil saturation, or if there are any indicators suggesting a long-term reducing environment in the upper part of the soil profile. Reducing conditions are most easily assessed using soil color. Soil colors were evaluated using the *Munsell Soil Color Charts* (Gretag/Macbeth, 2000).
- **Wetland Hydrology.** The wetland hydrology criterion is satisfied at a location based upon conclusions inferred from field observations that indicate an area has a high probability of being inundated or saturated (flooded, ponded, or tidally influenced) long enough during the growing season to develop anaerobic conditions in the surface soil environment, especially the root zone (USACE, 1987 and 2008b).

Areas meeting all three parameters would be designated as USACE wetlands. The location of wetlands within the study area was obtained from the Whitewater River and Coachella Valley Stormwater Channels Jurisdictional Delineation Report (ICF, 2014). Therefore, no wetland data sheets are included in this report.

CDFW jurisdiction was delineated by measuring the elevations of land that confine a stream to a definite course when its waters rise to their highest level and to the extent of associated riparian vegetation.

To determine jurisdictional boundaries, the surveyor walked the length of the drainage within the project area and recorded the centerline with a Trimble GeoXH global positioning system. The width of the drainage was determined by the OHWM and bankfull width measurements at locations where transitions were apparent. Other data recorded included bank height and morphology, substrate type, and all vegetation within the streambed and riparian vegetation adjacent to the streambed. Upon completion of fieldwork, all data collected in the field were incorporated into a Geographic Information System (GIS) along with basemap data. The GIS was then used to quantify the extent of jurisdictional waters.

Upstream and downstream connectivity of waterways was reviewed in the field and on aerial photographs and topographic maps to determine jurisdictional status according to the CWA, SWANCC, and Rapanos. Ephemeral washes with a physical connection to the Colorado River were determined to be potential WUS as well as WSC and CDFW streambeds.

4.0 ENVIRONMENTAL SETTING

4.1 Existing Conditions

The study area generally occurs adjacent to the Whitewater River and Tahquitz Creek along the levee access road. The dirt levee access road is generally adjacent to residential housing, commercial facilities, agricultural land, and undeveloped land. The study area also occurs along city streets and through golf courses.

The existing topography along the majority of the project alignment is relatively level, gradually sloping down in elevation from the north end of the alignment to the south end. Elevations range from a high of 733 feet above mean sea level near the intersection of Highway 111 and the Whitewater River channel at the north end of the study area to 120 below mean sea level near the south end of the study area where the Whitewater River crosses Airport Boulevard.

4.2 Hydrology

The average rainfall for the area is 3.29 inches per year (Western Regional Climate Center, 2016). Weather data was recorded in the city of Indio near the study area.

Runoff from the study area generally flows in Chino Creek and Tahquitz Creek from west to east and in the Whitewater River from northwest to southeast. After runoff exits the study area at the southeast end, it flows for 10 miles southeast before reaching the Salton Sea.

4.3 Vegetation

Native vegetation, where present adjacent to the alignment, is mostly dominated by a mixture of the following vegetation communities: *Larrea tridentata/Ambrosia dumosa* shrubland alliance Sawyer et. al (2009) (Sonoran creosote bush/mixed woody and succulent scrub in the CVMSCHP); Creosote bush – white burr sage scrub [Sandy association]/*Ambrosia salsola* alliance (Ephemeral and Stabilized shielded sand fields in the CVMSHCP); and *Atriplex canescens* alliance (Desert saltbush scrub in the CVMSHCP). Dominant native perennial plant species representative of the Sonoran creosote bush/mixed succulent scrub communities observed during the assessment included creosote bush (*Larrea tridentata*), white bursage (*Ambrosia dumosa*), brittle bush (*Encelia farinosa*), California indigo-bush (*Psorothamnus arborescens* var. *simplicifolius*), Schott's indigo-bush (*Psorothamnus schottii*), and golden cholla (*Cylindropuntia echinocarpa*). Species representative of Ephemeral and Stabilized shielded sand fields included Emory dalea (*Psorothamnus emoryi*), California croton (*Croton californicus*), sand verbena (*Abronia villosa* var. *villosa*), and dune sunflower (*Helianthus petiolaris* ssp. *canescens*). Plants representative of Desert saltbush scrub included four-wing saltbush (*Atriplex canescens*), allscale (*Atriplex polycarpa*), cheesebush (*Ambrosia salsola*), and salt grass (*Distichlis spicata*).

Vegetation nomenclature follows The Jepson Manual, Vascular Plants of California, 2nd Edition (Baldwin, 2012). When The Jepson Manual does not list a common name, common name nomenclature follows the United States Department of Agriculture, Natural Resources Conservation Service (USDA) Plants Database (USDA, 2015a).

4.4 Soils

The USDA online Web Soil Survey (based on the 1971 *Soil Survey of Coachella Valley Area, Riverside County, California*) (Soil Survey Staff, 2016) was reviewed to determine the soil types mapped as occurring within the study area. Soils within the study area occur on alluvial fans and floodplains. The study area crosses 19 different soil types (Appendix A) including:

- Carrizo stony sand (CcC) –This excessively drained soil occurs on alluvial fans (Backslope) with 2 to 9 percent slopes. It is composed of stony sand and the parent material is composed of alluvium derived from granite.
- Carsitas gravelly sand (CdC) – This excessively drained soil occurs on alluvial fans with 0 to 9 percent slopes. It is composed of gravelly sand and the parent material is composed of gravelly alluvium derived from granite.
- Carsitas cobbly sand (ChC) – This excessively drained soil occurs on alluvial fans (Summit) with 2 to 9 percent slopes. It is composed of gravelly sand on the surface and gravelly coarse sand below. The parent material is gravelly alluvium derived from granite.
- Carsitas fine sand (CkB) – This excessively drained soil occurs on alluvial fans with 0 to 5 percent slopes. It is composed of fine sand on the surface and gravelly sand below. The parent material is composed of sandy alluvium derived from granite.
- Coachella fine sand (CpA) – This well-drained soil occurs on alluvial fans (Footslope) with 0 to 2 percent slopes. It is composed of mostly fine sand with very fine sand 48 to 60 inches below the surface. The parent material is composed of alluvium derived from igneous rock.
- Coachella fine sand, wet (CrA) – This moderately well-drained soil occurs on alluvial fans (Footslope) with 0 to 2 percent slopes. It is composed of mostly fine sand with very fine sand 48 to 60 inches below the surface. The parent material is composed of alluvium derived from igneous rock.
- Coachella fine sandy loam (CsA) – This well-drained soil occurs on alluvial fans (Footslope) with 0 to 2 percent slopes. It is composed of mostly fine sand with very fine sand 48 to 60 inches below the surface. The parent material is composed of alluvium derived from igneous rock.
- Fluvents (Fe) – This more or less freely drained soil occurs on recent water-deposited sediments on flood plains (Toeslope) with parent material composed of alluvium.
- Gilman loamy fine sand (GaB) – This well-drained soil occurs on alluvial fans (Footslope) with 0 to 5 percent slopes. It is composed of loam on the surface and stratified very fine sandy loam below. The parent material is composed of alluvium.
- Gilman fine sandy loam (GbA) – This well-drained soil occurs on alluvial fans (Footslope) with 0 to 2 percent slopes. It is composed of loam on the surface and stratified very fine sandy loam below. The parent material is composed of alluvium.
- Gilman fine sandy loam, wet (GcA) – This moderately well-drained soil occurs on alluvial fans (Footslope) with 0 to 2 percent slopes. It is composed of loam on the surface and stratified very fine sandy loam below. The parent material is composed of alluvium.
- Gilman silt loam (GeA) – This well-drained soil occurs on alluvial fans (Footslope) with 0 to 2 percent slopes. It is composed of loam on the surface and stratified very fine sandy loam below. The parent material is composed of alluvium.

- Gilman silt loam (GfA) – This moderately well-drained soil occurs on alluvial fans (Footslope) with 0 to 2 percent slopes. It is composed of loam on the surface and stratified very fine sandy loam below. The parent material is composed of alluvium.
- Indio fine sandy loam (Ip) – This well-drained soil occurs on alluvial fans (Footslope) on a less than 1 percent slope at an elevation of about 110 feet. It is composed of very fine sandy loam on the surface and stratified very fine sandy loam and silt loam below. The parent material is composed of alluvium.
- Indio fine sandy loam, wet (Ir) – This moderately well-drained soil occurs on alluvial fans (Footslope) on a less than 1 percent slope at an elevation of about 110 feet. It is composed of very fine sandy loam on the surface and stratified very fine sandy loam and silt loam below. The parent material is composed of alluvium.
- Indio very fine sandy loam (Is) – This well-drained soil occurs on alluvial fans (Footslope) on a less than 1 percent slope at an elevation of about 110 feet. It is composed of very fine sandy loam on the surface and stratified very fine sandy loam and silt loam below. The parent material is composed of alluvium.
- Indio very fine sandy loam, wet (It) – This moderately well-drained soil occurs on alluvial fans (Footslope) on a less than 1 percent slope at an elevation of about 110 feet. It is composed of very fine sandy loam on the surface and stratified very fine sandy loam and silt loam below. The parent material is composed of alluvium.
- Myoma fine sand (MaB) – This somewhat excessively drained soil occurs on alluvial fans (Toeslope) with 0 to 5 percent slopes. It is composed of fine sand on the surface and very fine sand below. The parent material is composed of windblown sandy alluvium.
- Myoma fine sand (MaD) – This somewhat excessively drained soil occurs on alluvial fans (Footslope) with 5 to 15 percent slopes. It is composed of fine sand on the surface and very fine sand below. The parent material is composed of windblown sandy alluvium.
- Riverwash (RA) – This excessively drained soil occurs in channels with 0 to 2 percent slopes. It is composed of gravelly sand and the parent material is composed of sandy and gravelly alluvium.
- Rock outcrop (RO) –The parent material is composed of residuum weathered from igneous, metamorphic and sedimentary rock and produces very high runoff.
- Water (W) – Water.

The following soil types on the site occur on the National List of Hydric Soils: Carsitas gravelly sand (CdC), Carsitas cobbly sand (ChC), Fluvents (Fe), Myoma fine sand (MaB), Myoma fine sand (MaD), Riverwash (RA), and Rock outcrop (RO) (USDA, 2016b).

4.5 National Wetlands Inventory

The United States Fish and Wildlife Service (USFWS) is the principal Federal agency that provides information to the public on the extent and status of the Nation's wetlands. The USFWS has developed a series of maps, known as the National Wetlands Inventory (NWI) to show wetlands and deepwater habitat. This geospatial information is used by Federal, State, and local agencies, academic institutions, and private industry for management, research, policy development, education, and planning activities. The NWI program was neither designed nor intended to produce legal or regulatory products; therefore, wetlands identified by the NWI program are not the same as wetlands defined by the USACE.

NWI wetlands are mapped as occurring throughout the study area. On-site NWI wetlands are shown in Appendix B. NWI wetlands occurring along Tahquitz Creek at the north end of the study are characterized as riverine (R4USJx) and freshwater pond (PUSKx, PUBHx) based on Cowardin Classification (Cowardin et. al. 1979). Along the study area, adjacent to Calle Tecuala, are three freshwater pond wetlands (PUBHx); these are located approximately 2 miles southeast of where Tahquitz Creek flows into the Whitewater River and 1500 feet west of the closest reach of the Whitewater River.

NWI wetlands occurring along the Whitewater river, throughout the northern and southern study area, are characterized as riverine (R4SBJ, R4SBJx), freshwater pond (PUBHx, PUSCh, PUSJ), freshwater emergent wetland (PEMC, PEMFx), and freshwater forested/ shrub wetland (PSSC).

5.0 RESULTS

5.1 Delineation Results

The study area contains jurisdiction associated with the Whitewater River and Tahquitz Creek. The Jurisdictional Delineation Maps (Appendix B) identifies all on-site jurisdictional areas and includes the photo point locations and direction the photo was taken. Table 1 includes a list of waterways identified in the project area, their jurisdictional status and area of jurisdiction within the project study area.

The USACE, in combination with the Environmental Protection Agency (EPA), when necessary, reserves the ultimate authority in making the final jurisdictional determination of WUS and the RWQCB reserves the ultimate authority in making the final jurisdictional determination of WSC. Additionally, CDFW has ultimate discretion in the determination of their jurisdiction.

Table 1
Summary of Jurisdictional Areas

USACE Non-Wetland (acres)	USACE/CDFW Wetlands (acres)	CDFW Jurisdiction (acres)
97.89	13.09	433.27

WUS – Waters of the United States
WSC – Waters of the State of California
CDFW – California Department of Fish and Wildlife

5.2 Jurisdictional Determination

The Whitewater River and Tahquitz Creek are intermittent drainages that likely flow for less than 3 months per year. Therefore, the USACE will likely classify these as non-RPWs. The Whitewater River flows into the Salton Sea approximately 10 miles from the study area and exhibits both physical surface channel connectivity and hydrologic connectivity with the Salton Sea. The Salton Sea is classified as a TNW as a result of a Supreme Court decision (Colvin v. United States). Therefore, the USACE will likely consider the on-site drainages to be jurisdictional under the CWA.

The USACE is ultimately responsible for jurisdictional determinations, and this report has been prepared to provide the necessary information to assist the USACE with that determination. An Approved Jurisdictional Determination could be requested of the USACE to provide an analysis to determine if the on-site drainages have a “significant nexus” to the Salton Sea, and are therefore jurisdictional WUS. Otherwise the project proponent can request a Preliminary Jurisdictional Determination in which the USACE assumes jurisdiction over the on-site drainages, and process permits accordingly.

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6.0 IMPACTS TO JURISDICTIONAL AREAS

The proposed development plan was overlaid on the jurisdictional delineation boundary using GIS to determine the extent of impacts to jurisdictional areas (Appendix B). The pathway was considered permanent impacts. Temporary impacts were assessed for an area 10 feet beyond any permanent impacts. Table 2 portrays the proposed impacts to jurisdictional waters in the on-site drainages. Tables 3 and 4 portray the proposed impacts to jurisdictional waters within the cities of Rancho Mirage and Indian Wells, respectively.

Table 2
Impacts to Jurisdictional Areas (All Alignments)

Temporary Impacts to USACE non-wetland (acres)	Permanent Impacts to USACE non-wetland (acres)	Temporary Impacts to USACE/CDFW Wetlands (acres)	Permanent Impacts to USACE/CDFW Wetlands (acres)	Temporary Impacts to CDFW Jurisdiction (acres)	Permanent Impacts to CDFW Jurisdiction (acres)
5.84	2.84	0.40	0.19	33.62	17.46

Table 3
Impacts to Jurisdictional Areas within the City of Rancho Mirage

Temporary Impacts to USACE non-wetland WUS (acres)	Permanent Impacts to USACE non-wetland WUS (acres)	Temporary Impacts to USACE/CDFW Wetlands (acres)	Permanent Impacts to USACE/CDFW Wetlands (acres)	Temporary Impacts to CDFW Jurisdiction (acres)	Permanent Impacts to CDFW Jurisdiction (acres)
1.29	0.56	0	0	2.44	1.18

Table 4
Impacts to Jurisdictional Areas within the City of Indian Wells

Temporary Impacts to USACE non-wetland WUS (acres)	Permanent Impacts to USACE non-wetland WUS (acres)	Temporary Impacts to USACE/CDFW Wetlands (acres)	Permanent Impacts to USACE/CDFW Wetlands (acres)	Temporary Impacts to CDFW Jurisdiction (acres)	Permanent Impacts to CDFW Jurisdiction (acres)
0.48	0.18	0.004	0.005	10.70	5.56

6.1 Permitting Requirements

The proposed project requires temporary and permanent impacts to a jurisdictional drainage and therefore, authorizations from the USACE, RWQCB, and CDFW may be required as described below.

6.1.1 U.S. Army Corps of Engineers

The two most common types of permits issued by USACE under Section 404 of the CWA to authorize the discharge of dredged or fill material into WUS are: a nation-wide permit (NWP) or an individual permit (IP).

NWPs are general permits for specific categories of activities that result in minimal impacts to aquatic resources.

NWP 42 can be used for the construction or expansion of recreational facilities including bike paths. This NWP also authorizes the construction or expansion of small support facilities, such as maintenance and storage buildings that are directly related to the recreational activity. The discharge must not cause the loss of greater than ½ acre of non-tidal WUS, including the loss of no more than 300 linear feet of streambed, unless for intermittent and ephemeral streambeds the district engineer waives the 300 foot limit by making a written determination concluding that the discharge will result in minimal adverse effects.

For project impacts that do not meet the provisions of an existing NWP, the USACE would require an IP. An IP requires detailed analysis and compliance with the USACE formal review process. This process includes preparation of an alternatives analysis as required by EPA Section 404(b)(1) Guidelines and the National Environmental Policy Act (NEPA), and requires compliance with NEPA's environmental review process. This process provides opportunities for public notice and comment.

The USACE must comply with the federal Endangered Species Act and Section 106 of the National Historic Preservation Act when issuing a NWP or IP.

6.1.2 Regional Water Quality Control Board

The project area is within the jurisdiction of the Colorado River RWQCB (Region 7). Under Section 401 of the CWA, the RWQCB must certify that the discharge of dredged or fill material into WUS does not violate state water quality standards.

The RWQCB also regulates impacts to WSC under the Porter Cologne Water Quality Control Act through issuance of a Construction General Permit, State General Waste Discharge Order, or Waste Discharge Requirements, depending upon the level of impact and the properties of the waterway.

The project proponent would need to obtain a Water Quality Certification. In addition to the formal application materials and fee (based on area of impact), a copy of the appropriate California Environmental Quality Act (CEQA) documentation must be included with the application.

6.1.3 California Department of Fish and Wildlife

A 1602 Streambed Alteration Agreement is required for all activities that alter streams and lakes and their associated riparian habitat. Therefore, the project proponent would need to obtain a Streambed Alteration Agreement. In addition to the formal application materials and fee (based on cost of the project), a copy of the appropriate CEQA documentation must be included with the application.

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7.0 RECOMMENDATIONS TO AVOID IMPACTS TO JURISDICTIONAL WATERS

The project proponent should develop and implement Best Management Practices (BMPs) that follow and implement the following direction and guidance. These BMPs should also be a part of the project construction plans to ensure that they are fully considered and put into effect at locations where the potential exists to impact jurisdictional waters.

7.1 General Provisions

a. Construction activities should be avoided to the greatest extent practicable within the limits of identified waterways.

b. Protect inlets and outlets of culverts to prevent channel incision, erosion, and sedimentation.

c. Select erosion control measures appropriate for on the ground conditions including percent slope, length of slope, and soil type and erosive factor.

d. Keep path right-of-way width to the minimum width necessary for path construction.

e. Temporary erosion controls must be properly maintained throughout construction (on a daily basis) and reinstalled as necessary (such as after backfilling of the trench) until replaced with permanent erosion controls or restoration is complete.

f. Ensure that all employees and contractors are properly informed and trained on how to properly install and maintain erosion control BMPs. Contractors should require all employees and contractors responsible for supervising the installation and maintenance of BMPs and those responsible for the actual installation and maintenance to receive training in proper installation and maintenance techniques.

g. Thoughtfully planned project scheduling will reduce the amount of soil exposed and the duration of its exposure to wind, rain, and vehicle tracking. Scheduling will include the following BMPs:

    1. Incorporate the use of a schedule or flow chart to layout the construction plan.

    2. Work out the sequencing and time frame for the initiation and completion of tasks such as site clearing, grading, excavation, installing path, and reclamation.

    3. Incorporate erosion and sediment control BMPs.

7.2 Minimizing Non-sediment Related Contaminant Exposure

To prevent petroleum products from contaminating soils and water bodies, the following BMPs should be implemented:

a. Construction equipment and vehicles will be properly maintained to prevent leakage of petroleum products.

b. Herbicides, fertilizers, vehicle maintenance fluids, petroleum products will be stored, and/or changed in staging areas established at least 300 vegetated feet from

delineated streams and other drainages. These products must be discarded at disposal sites in accordance with state and federal laws, rules, and regulations.

c. Drip pans and tarps or other containment systems will be used when changing oil or other vehicle/equipment fluids.

d. Areas where discharge material, overburden, fuel, and equipment are stored will be designed and established at least 300 vegetated feet from the edge of delineated streams.

e. Any contaminated soils or materials will be disposed of off-site in proper receptacles at an approved disposal facility.

f. Plan to inspect and repair all erosion control measures after each rainfall event that results in overland runoff. Be prepared year round to deploy and maintain erosion control BMPs. Maintenance of BMPs is as important as their initial placement.

g. Existing culverts should be carefully maintained in place in order to ensure that they function properly. Considerations include: maintenance of inlet and outlet elevations, grade, adequate compacted material cover, and inlet/outlet protection.

7.3 Restoration

Restoration involves restoring the right-of-way to pre-construction conditions by final grading, installation of permanent erosion control measures such as slope breaks at appropriate distances to prevent rill (channel) formation between slope breaks, and re-establishing vegetation.

R1. Commence cleanup operations immediately following backfill operations on slopes approaching delineated streams and other drainages.

R2. Complete final grading to restore pre-construction contours and leave soil in pre-existing condition within 7 days after backfilling the trench.

R3. Restoration crew will follow construction crews as they work systematically along the CV Link construction route. If crews cannot work systematically from one end to the other end, then erosion control BMPs must be maintained on all slopes approaching a delineated stream and adjacent to these sensitive areas. If seasonal or other weather related conditions prevent compliance with these time frames, maintain erosion control BMPs until conditions allow completion of cleanup.

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APPENDIX A

SOILS MAPS

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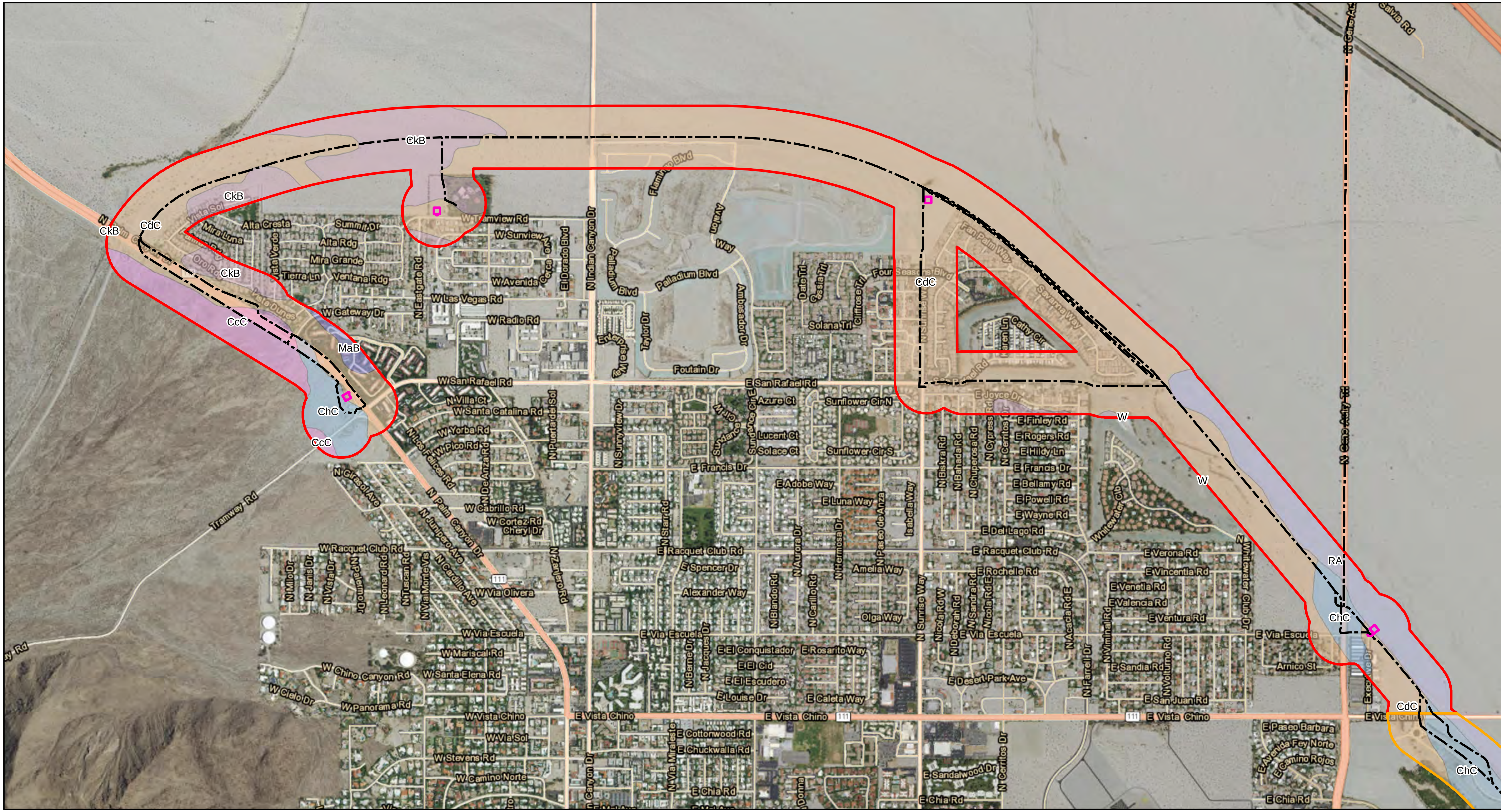

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- Staging Areas
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- CdC: CARSITAS GRAVELLY SAND, 0-9% SLOPES
- ChC: CARSITAS COBBLY SAND, 2-9% SLOPES
- CkB: CARSITAS FINE SAND, 0-5% SLOPES
- MaB: MYOMA FINE SAND, 0-5% SLOPES
- RA: RIVERWASH
- W: Water

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Source: CV Link_Construction Documents_ 30% Plan Set, soilmart ca_680, Bing Maps

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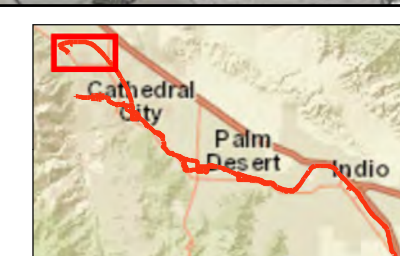

FIGURE 5

Page 1 of 10

CV/LINK
MSHCP Compliance Report

Soils Maps

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- ChC: CARSITAS COBBLY SAND, 2-9% SLOPES
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- RA: RIVERWASH

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Soils Maps

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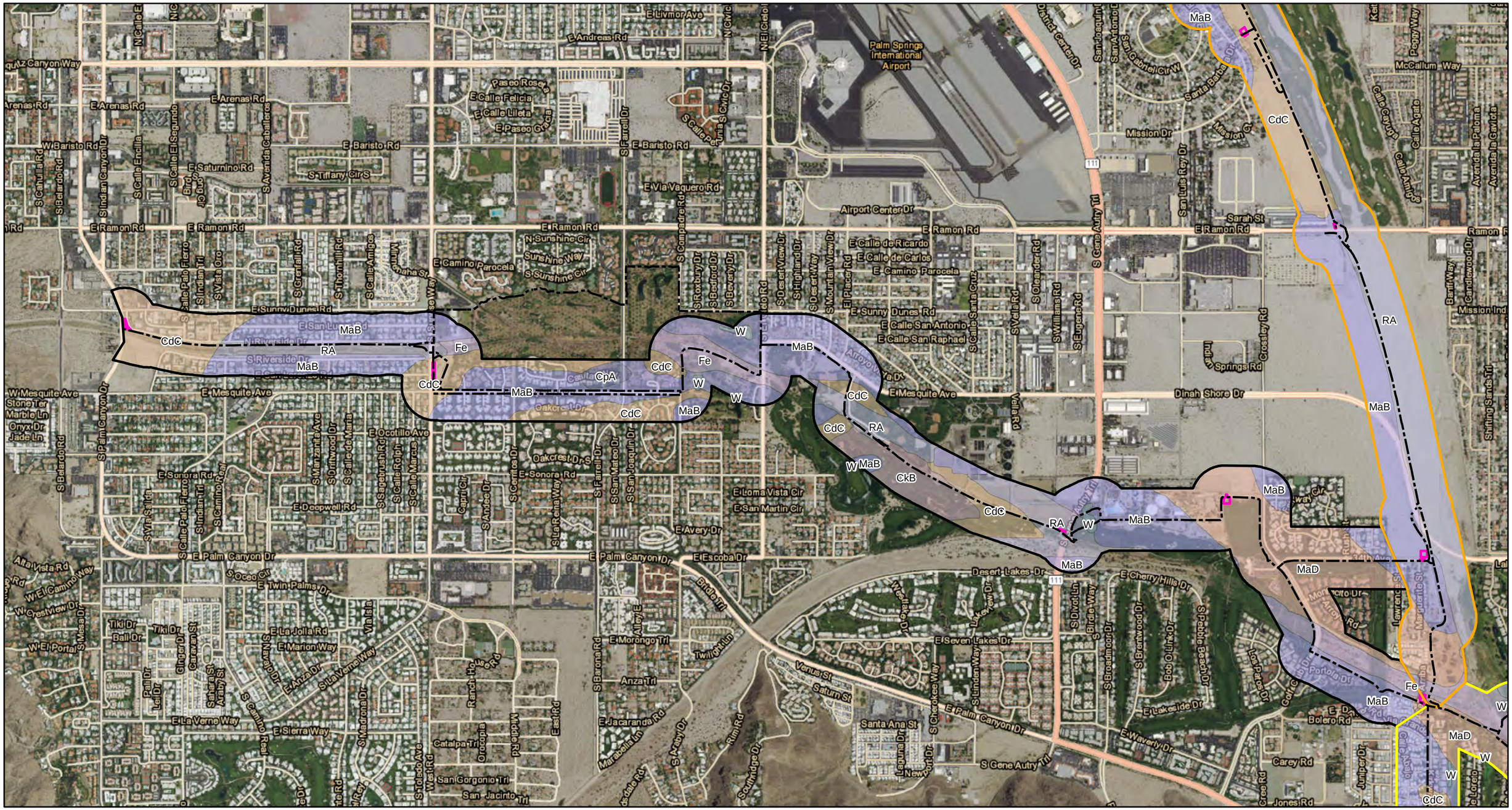

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- CpA: COACHELLA FINE SAND, 0-2% SLOPES
- Fe: FLUVENTS
- MaB: MYOMA FINE SAND, 0-5% SLOPES
- MaD: MYOMA FINE SAND, 5-15% SLOPES
- RA: RIVERWASH
- W: Water

Source: CV Link_Construction Documents_ 30% Plan Set, soilmart ca_680, Bing Maps

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FIGURE 5

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MSHCP Compliance Report

Soils Maps

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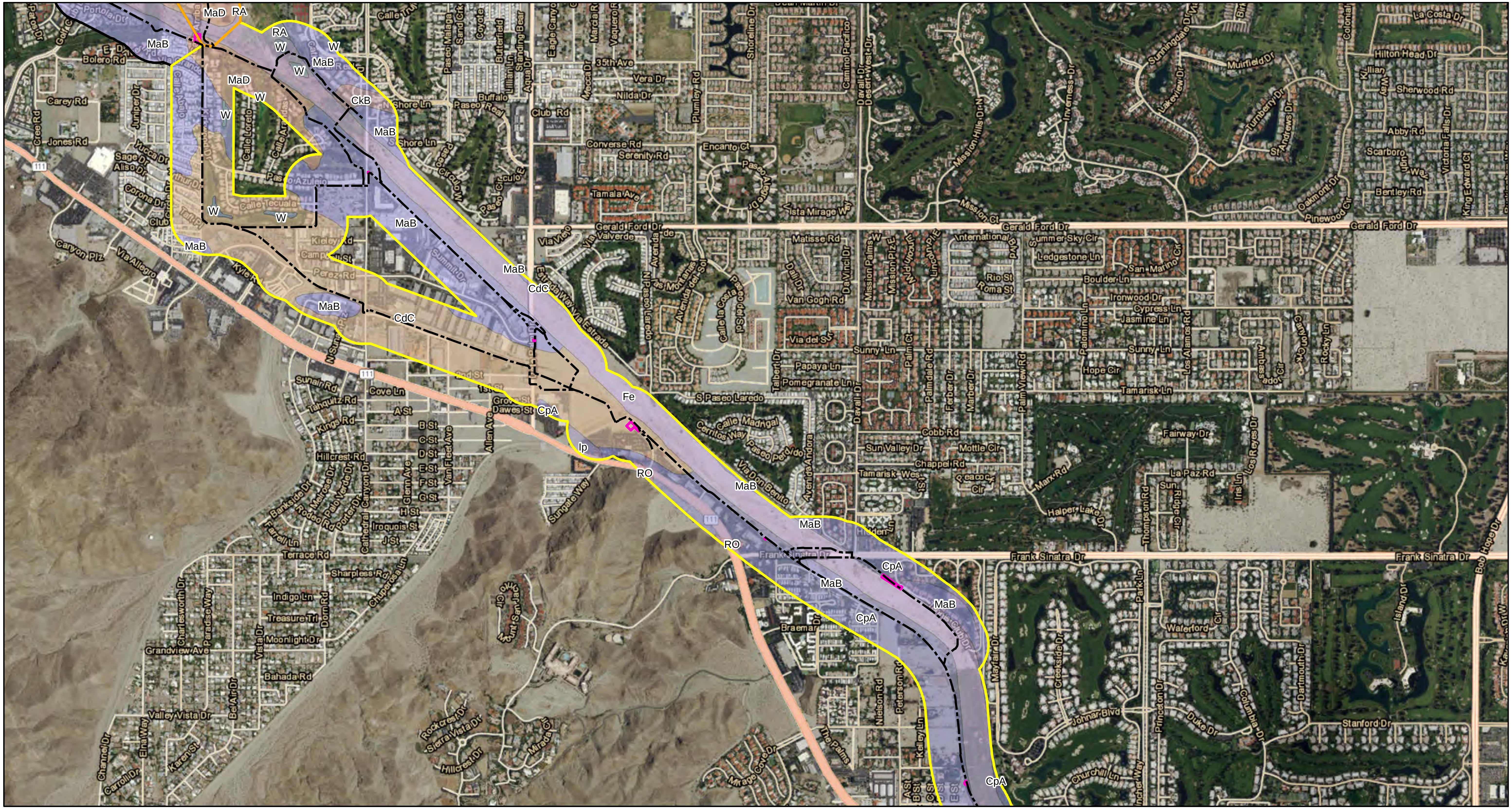

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- Ip: : INDIO FINE SANDY LOAM
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FIGURE 5

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MSHCP Compliance Report

Soils Maps

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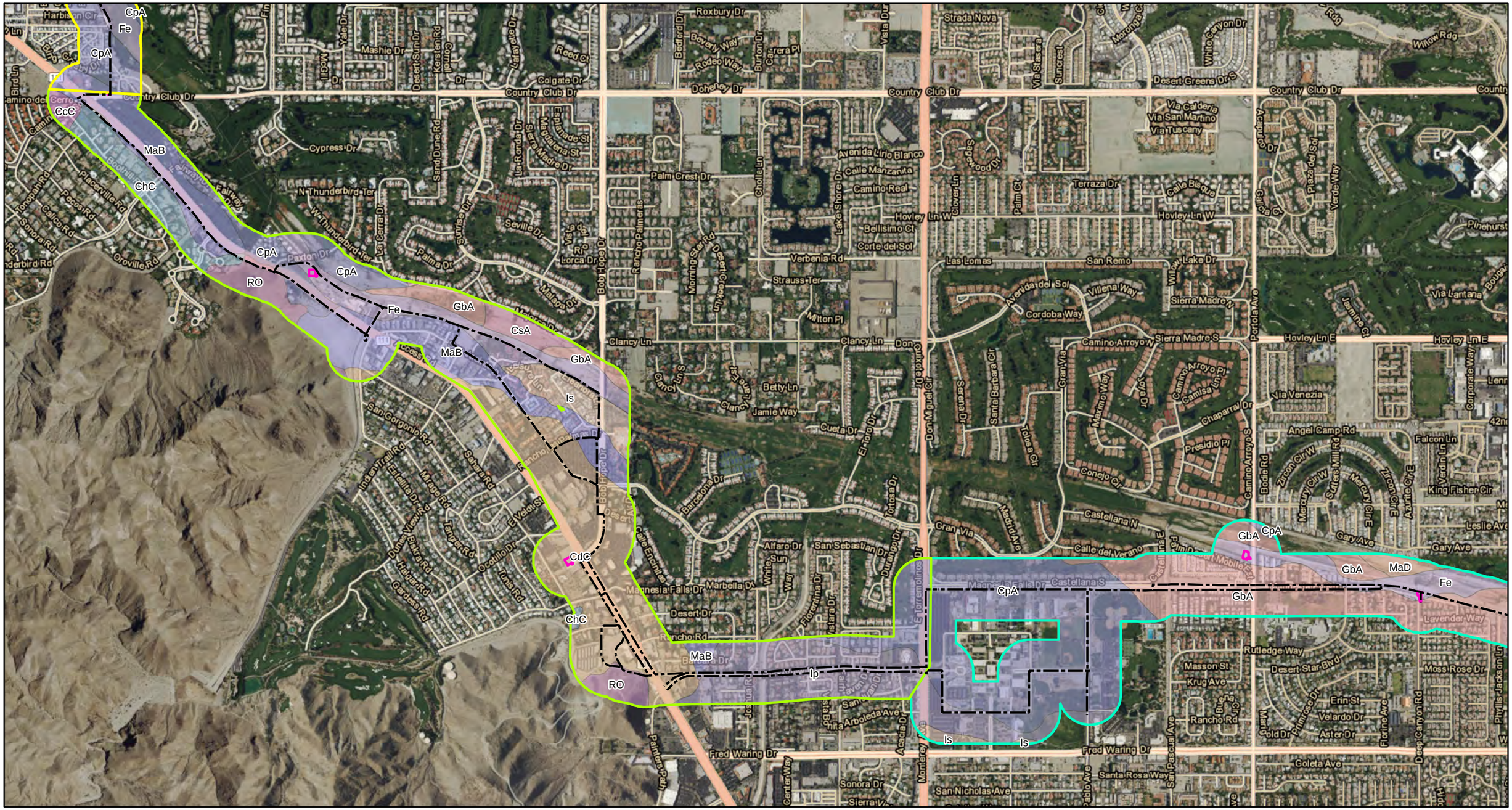

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- Ip: : INDIO FINE SANDY LOAM
- Is: INDIO VERY FINE SANDY LOAM
- MaB: MYOMA FINE SAND, 0-5% SLOPES
- MaD: MYOMA FINE SAND, 5-15% SLOPES
- RO: ROCK OUTCROP

Source: CV Link_Construction Documents_ 30% Plan Set, soilmart ca_680, Bing Maps

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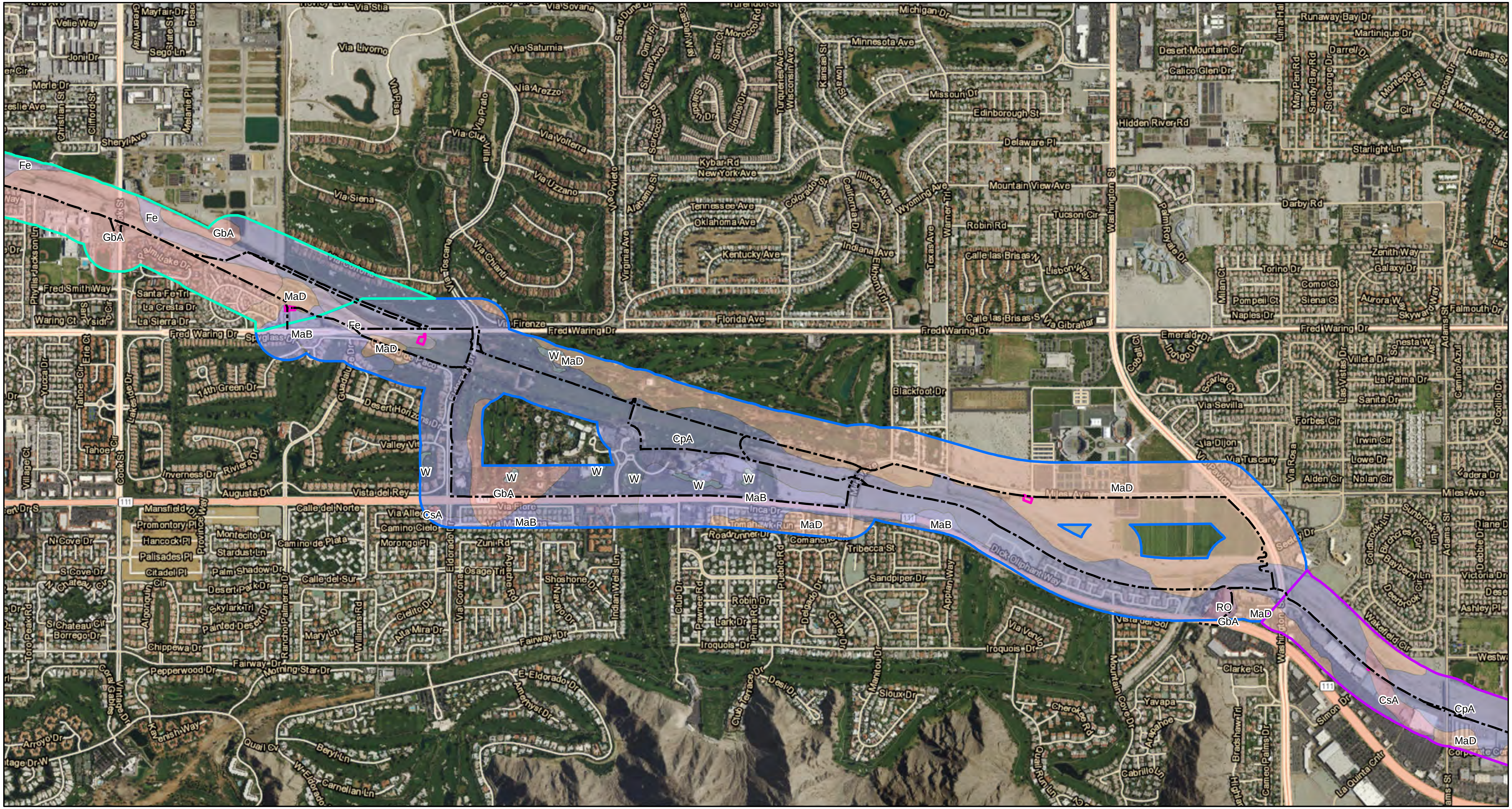

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FIGURE 5

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Soils Maps

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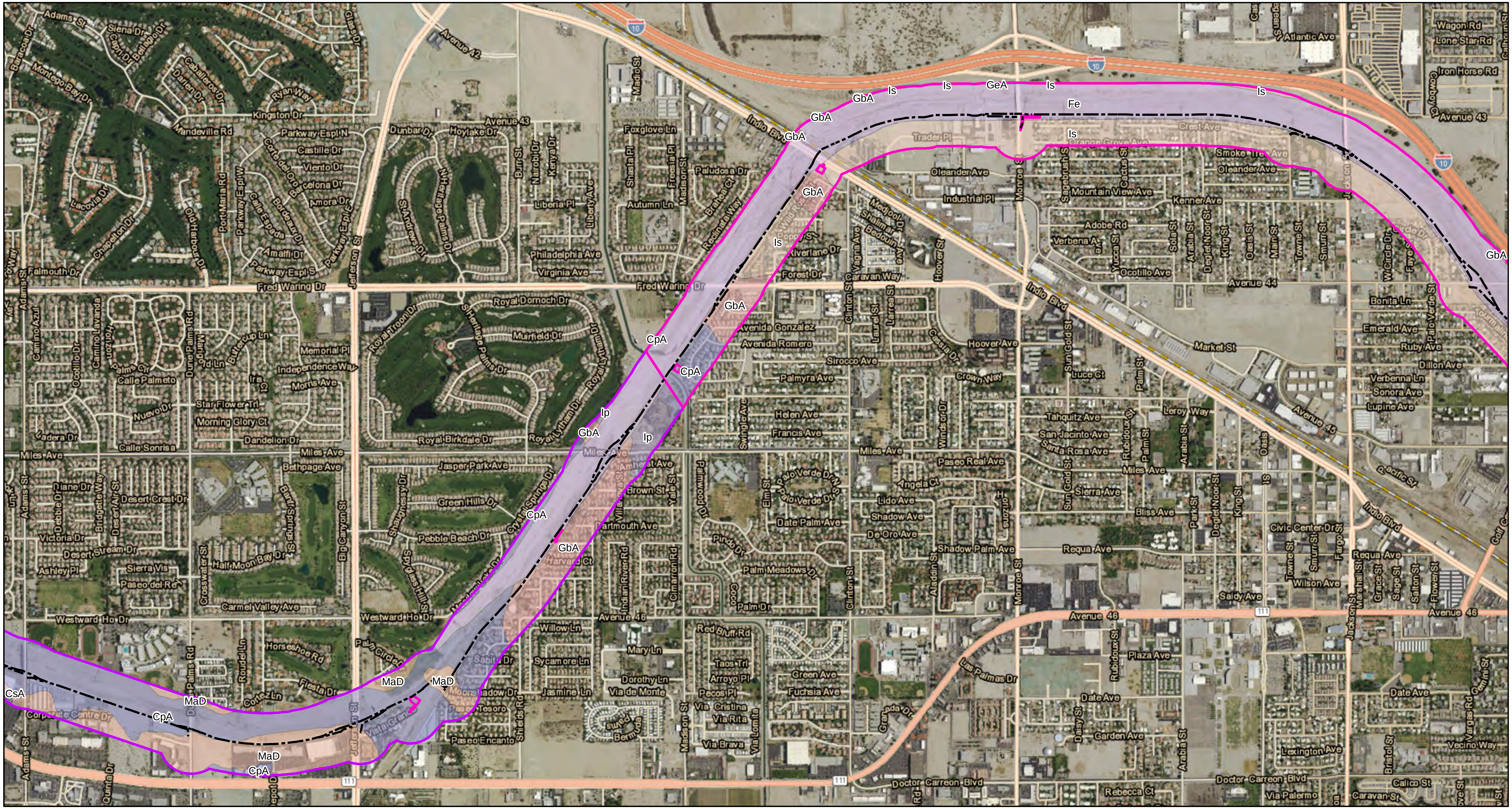

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- GeA: GILMAN SILT LOAM, 0-2% SLOPES
- Ip: : INDIO FINE SANDY LOAM
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- MaD: MYOMA FINE SAND, 5-15% SLOPES

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Source: CV Link_Construction Documents_ 30% Plan Set, soilmart ca_680, Bing Maps

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Soils Maps

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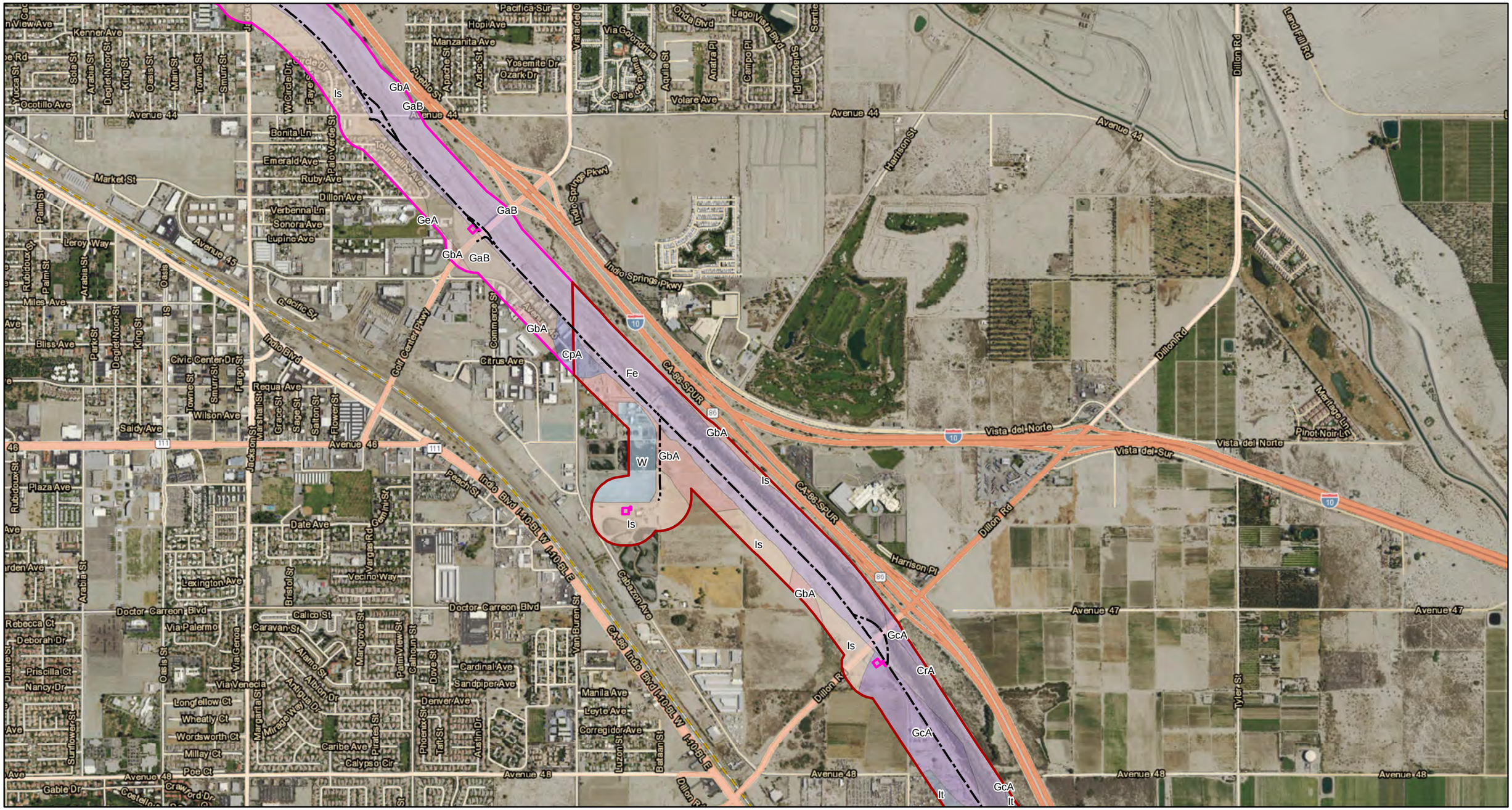

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- GbA: GILMAN FINE SANDY LOAM, 0-2% SLOPES
- GcA: GcA: GILMAN FINE SANDY LOAM, 0-2% SLOPES
- GeA: GILMAN SILT LOAM, 0-2% SLOPES
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- W: Water

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Source: CV Link_Construction Documents_ 30% Plan Set, soilmart ca_680, Bing Maps

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FIGURE 5

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MSHCP Compliance Report

Soils Maps

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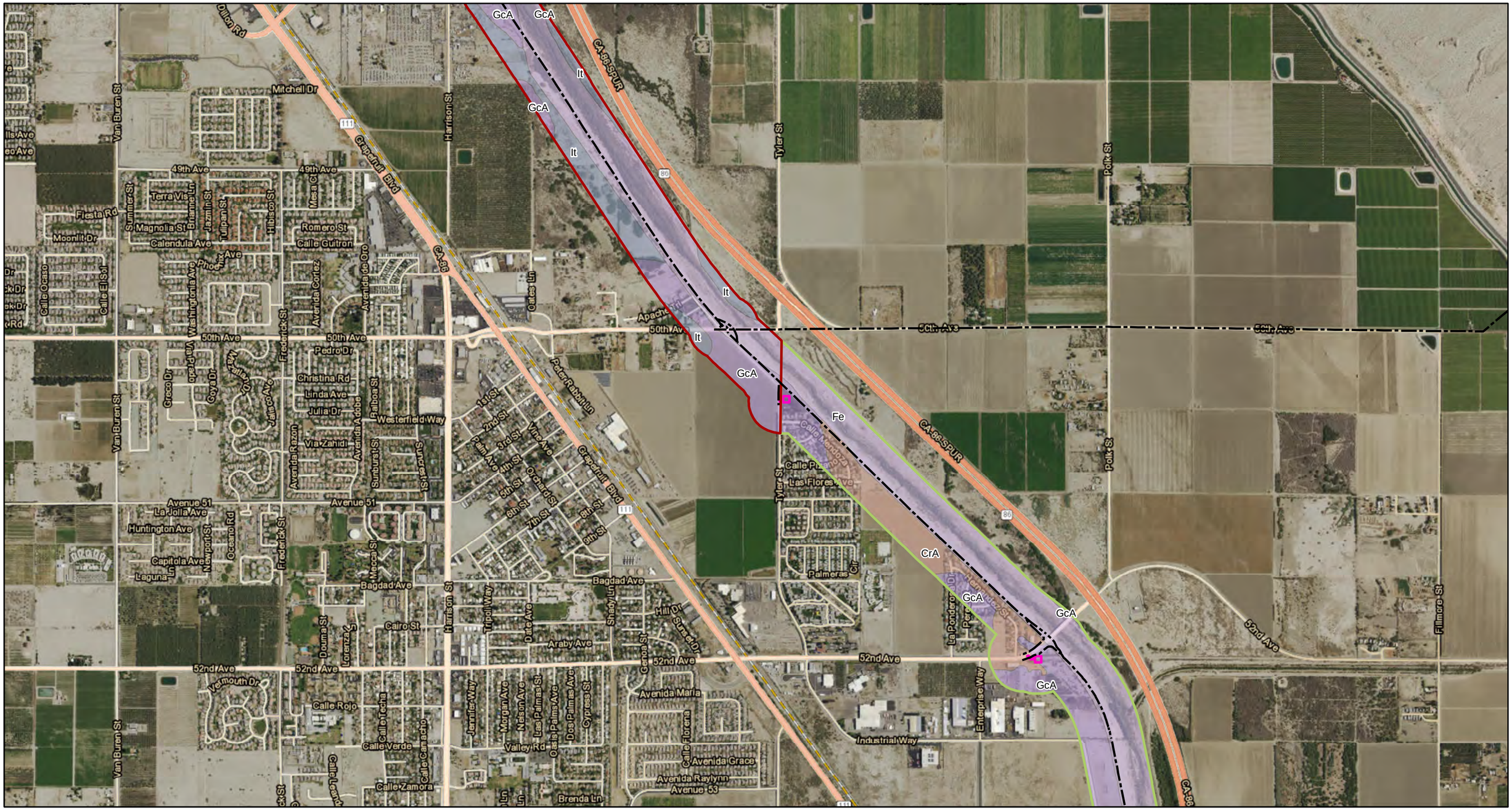

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- Updated Alignment
- Staging Areas
- CrA: COACHELLA FINE SAND, WET, 0-2% SLOPES
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Source: CV Link_Construction Documents_ 30% Plan Set, soilmart ca_680, Bing Maps

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FIGURE 5

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MSHCP Compliance Report

Soils Maps

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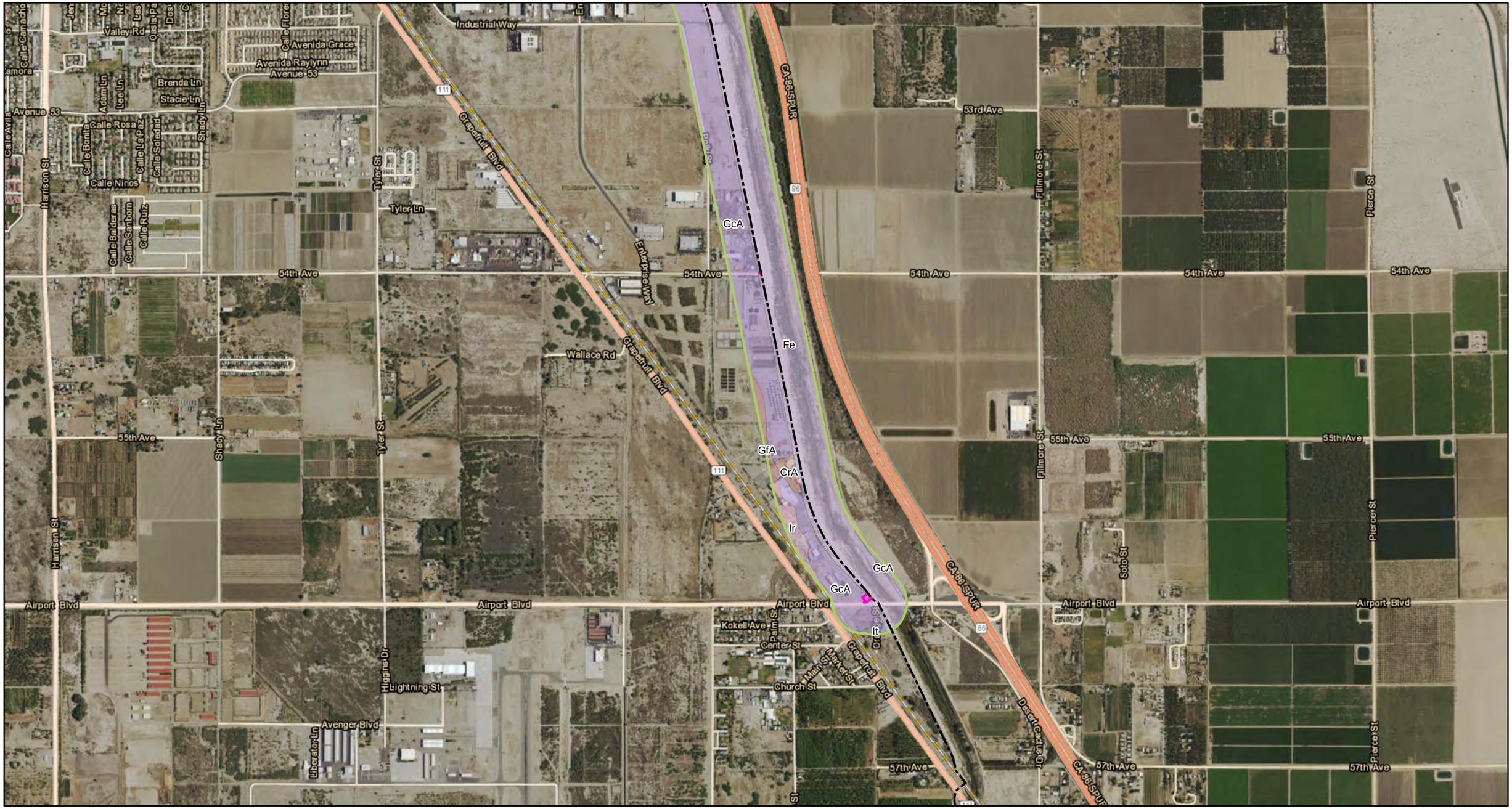

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- GfA: GILMAN SILT LOAM, WET, 0-2% SLOPES
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FIGURE 5

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MSHCP Compliance Report

Soils Maps

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APPENDIX B

NATIONAL WETLANDS INVENTORY MAPS

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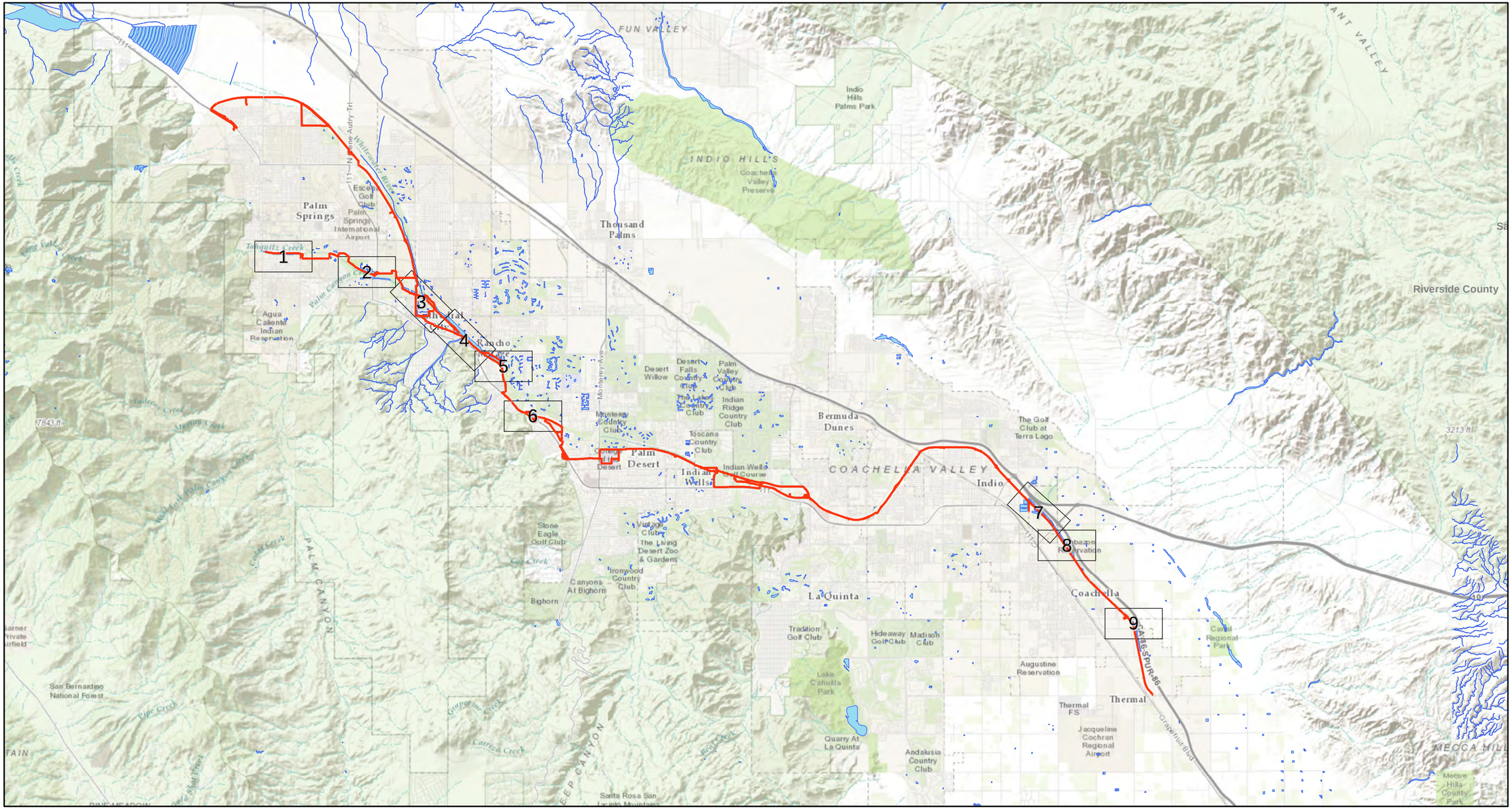

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Miles

N

Source: CV Link_Construction Documents_ 30% Plan Set, Bing Maps

FIGURE 3A

DRAFT

CV Link
Jurisdictional Delineation Report

NWI Overview

S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\NWI-index.mxd (7/27/2016)

amec foster wheeler

R4USJx

R4USJx

LEGEND

- Updated Alignment
- Survey Area
- Staging Area
- R4USJx: Riverine, intermittent, Unconsolidated shore, intermittently flooded, excavated

0 500
Feet

Source: CV LINK KMZ UPDATE 7.25.16 PL 2, CONUS_wet_poly.shp,world imagery

S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\NWI1.mxd (10/11/2016)

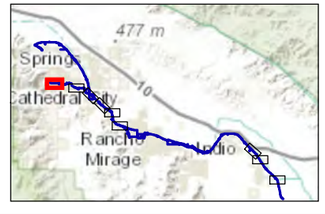


FIGURE 3B

CV Link
Jurisdictional Delineation Report

NWI Map

amec foster wheeler

PUSKx
PUSKx
PUSKx
PUBHx
PUBHx
R4SBJx

LEGEND

- Updated Alignment
- Survey Area
- Staging Area
- PUBHx: Palustrrine, Unconsolidated Bottom, Permanently Flooded
- PUSKx: Palustrine, Unconsolidated shore, Artificially Flooded, Excavated
- R4SBJx: Riverine, intermittent, streambed, intermittently flooded, excavated

CVAG

0 500
Feet

Source: CV LINK KMZ UPDATE 7.25.16 PL 2, CONUS_wet_poly.shp,world imagery

S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\NWI1.mxd (10/11/2016)

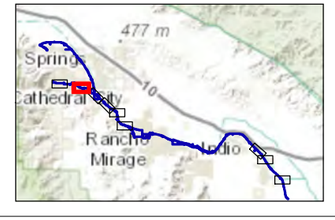


FIGURE 3B

CV Link
Jurisdictional Delineation Report

NWI Map

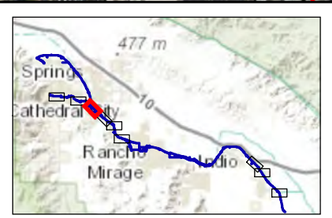
amec foster wheeler

CVAG

0 500
Feet

LEGEND

- Updated Alignment
- Survey Area
- Staging Area
- PUBHx: Palustrrine, Unconsolidated Bottom, Permanently Flooded
- PUSJ:Palustrine, Unconsolidated shore, intermittent
- R4SBJ: Riverine, intermittent, streambed, intermittently flooded
- R4SBJx: Riverine, intermittent, streambed, intermittently flooded, excavated



Source: CV LINK KMZ UPDATE 7.25.16 PL 2, CONUS_wet_poly.shp,world imagery

S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\NWI1.mxd (10/11/2016)

FIGURE 3B

Page 3 of 9

CV Link
Jurisdictional Delineation Report

NWI Map

amec foster wheeler

PEMA

R4SBJx

LEGEND

- Updated Alignment
- Survey Area
- Staging Area
- PEMA: Palustrine, Emergent, Temporarily Flooded
- R4SBJx: Riverine, intermittent, streambed, intermittently flooded, excavated

0 500
Feet

Source: CV LINK KMZ UPDATE 7.25.16 PL 2, CONUS_wet_poly.shp,world imagery

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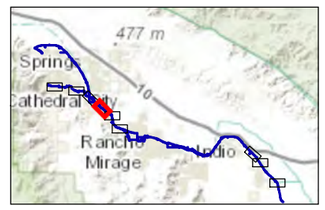

FIGURE 3B

CV Link
Jurisdictional Delineation Report

NWI Map

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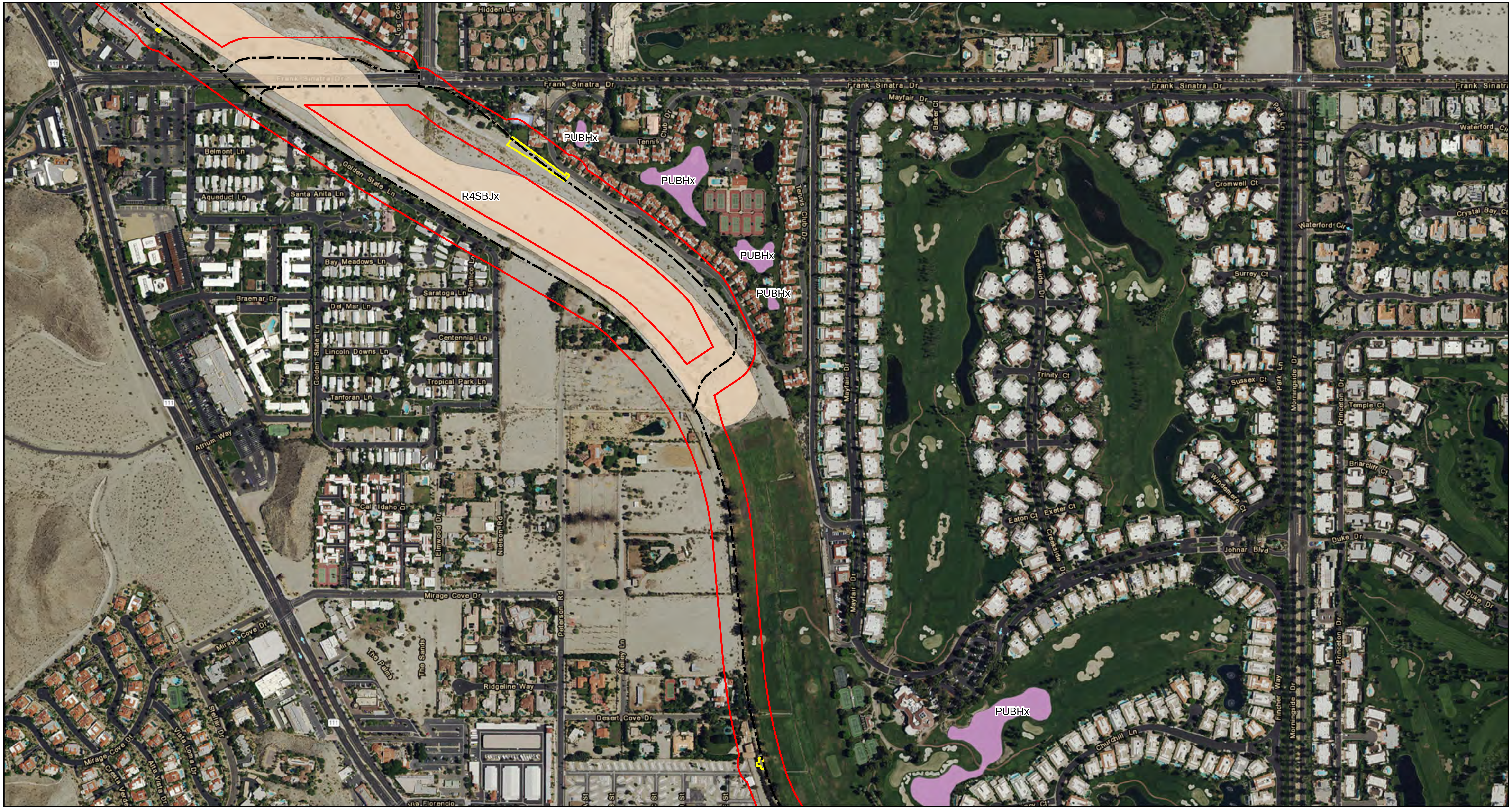

LEGEND

- ▬ ▪ ▪ Updated Alignment
- 🟥 Survey Area
- 🟨 Staging Area
- 🟪 PUBHx: Palustrrine, Unconsolidated Bottom, Permanently Flooded
- ▨ R4SBJx: Riverine, intermittent, streambed, intermittently flooded, excavated

0 500
Feet

N

Source: CV LINK KMZ UPDATE 7.25.16 PL 2, CONUS_wet_poly.shp,world imagery

S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\NWI1.mxd (10/11/2016)

FIGURE 3B

Page 5 of 9

CV Link
Jurisdictional Delineation Report

NWI Map

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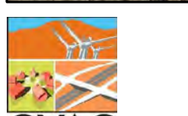


LEGEND

- Updated Alignment
- Survey Area
- Staging Area
- PUSCh: Palustrine, Unconsolidated shore, seasonally flooded, diked/impounded

0 500

Feet

Source: CV LINK KMZ UPDATE 7.25.16 PL 2, CONUS_wet_poly.shp,world imagery

S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\NWI1.mxd (10/11/2016)

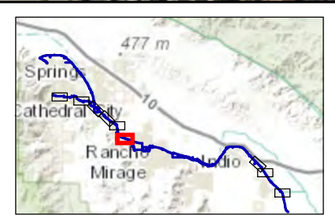
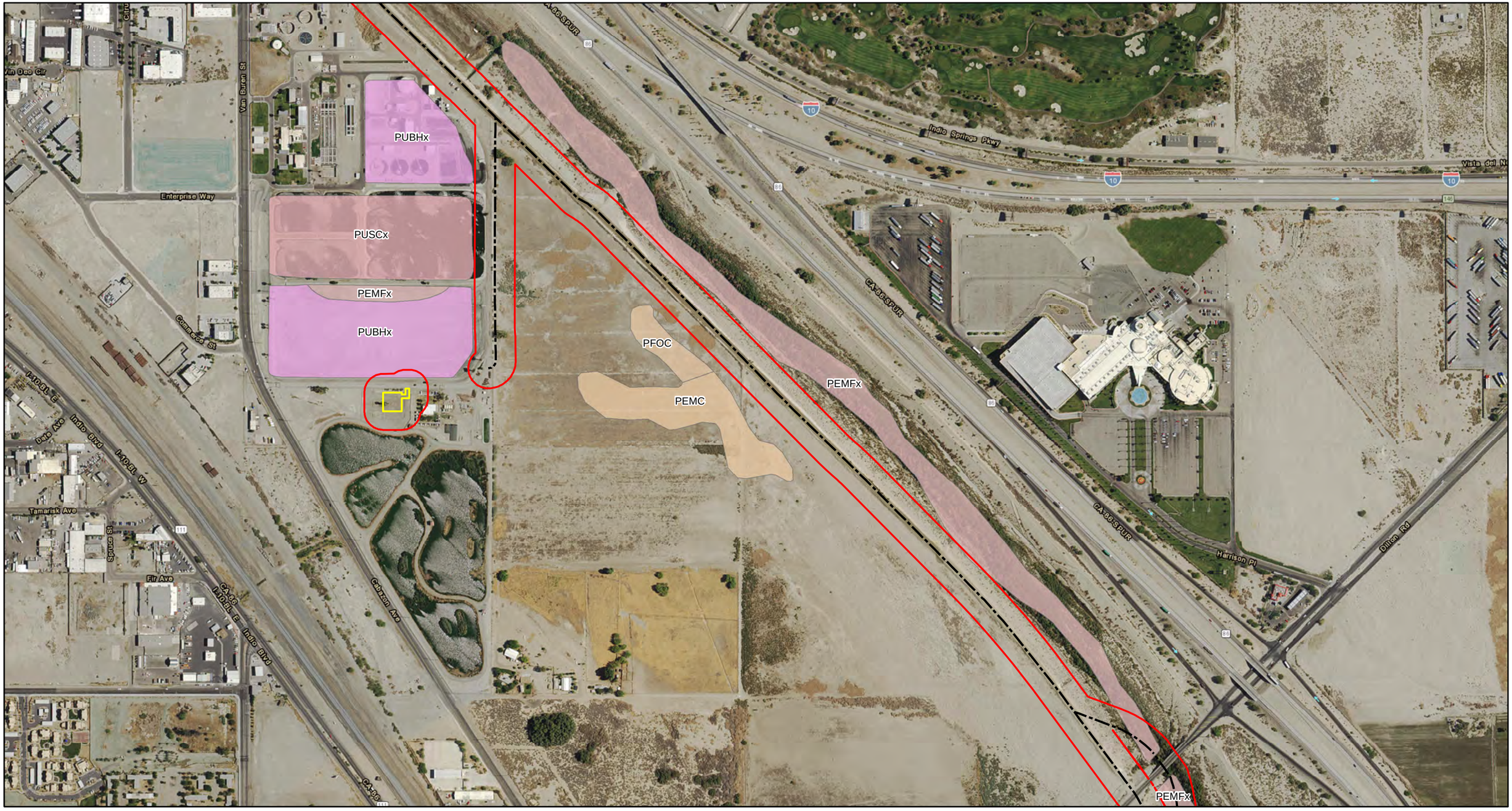


FIGURE 3B

CV Link
Jurisdictional Delineation Report

NWI Map

amec foster wheeler



LEGEND

- Updated Alignment
- Survey Area
- Staging Area
- PEMC: Palustrine, Emergent, Seasonally Flooded
- PEMFx: Palustrine, Emergent, Semiparmently Flooded, Excavated
- PFOC: Palustrine, Forested, Seasonally Flooded
- PUBHx: Palustrrine, Unconsolidated Bottom, Permanently Flooded
- PUSCx: Palustrine, Unconsolidated shore, Seasonally Flooded, excavated

CVAG

0 500
Feet

Source: CV LINK KMZ UPDATE 7.25.16 PL 2, CONUS_wet_poly.shp,world imagery

S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\NWI1.mxd (10/11/2016)

FIGURE 3B

CV Link
Jurisdictional Delineation Report

NWI Map

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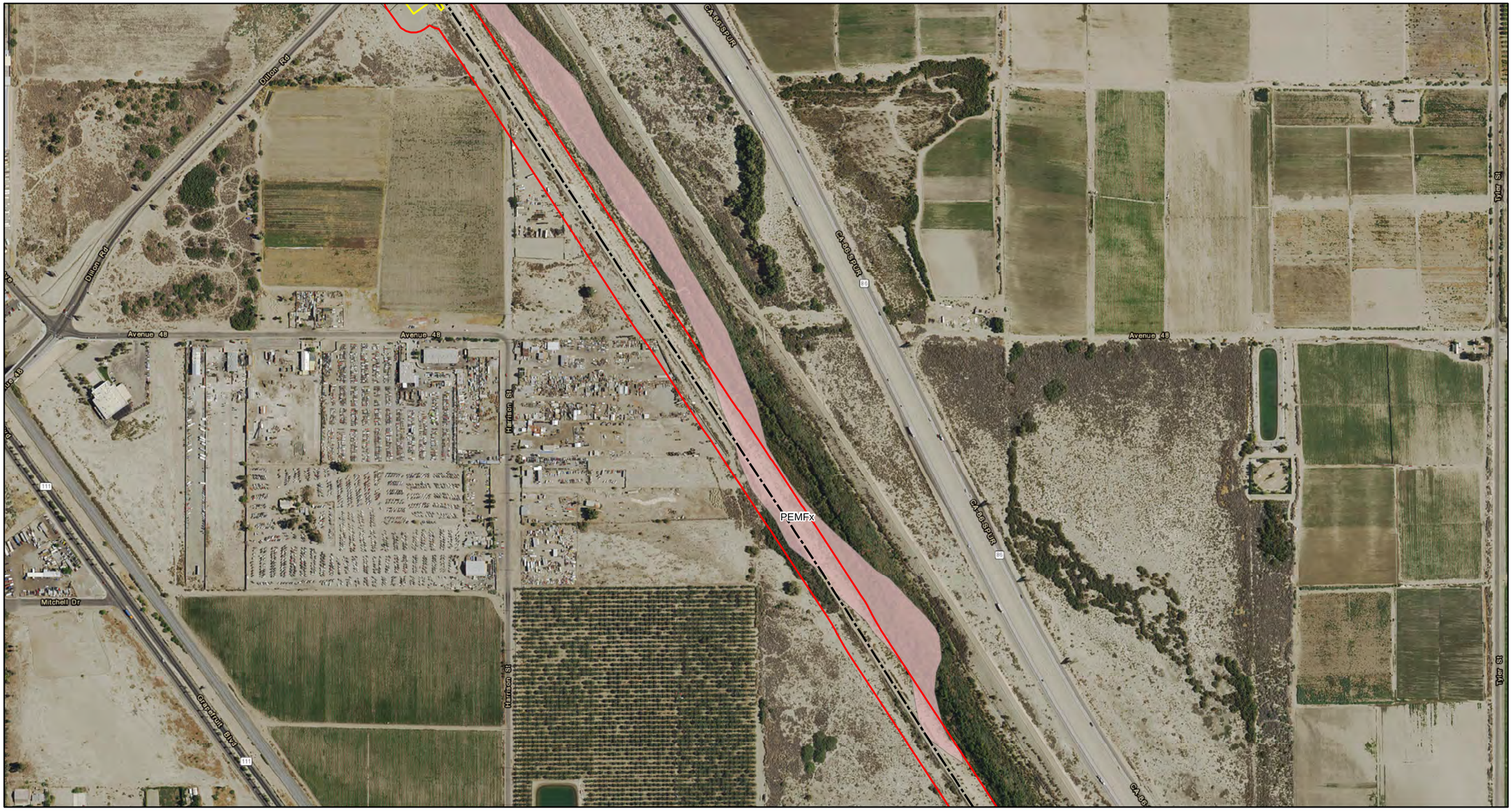

LEGEND

- Updated Alignment
- Survey Area
- Staging Area
- PEMFx: Palustrine, Emergent, Semiparmently Flooded, Excavated

CVAG

0 500

Feet

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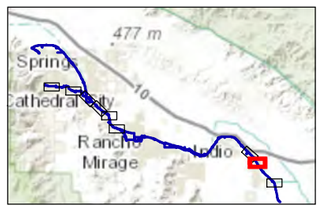

Source: CV LINK KMZ UPDATE 7.25.16 PL 2, CONUS_wet_poly.shp,world imagery

S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\NWI1.mxd (10/11/2016)

FIGURE 3B

CV Link
Jurisdictional Delineation Report

NWI Map

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CVAG

0 500
Feet

LEGEND

- Updated Alignment
- Survey Area
- Staging Area
- PEMF: Palustrine, Emergent, Semiparmently Flooded
- PSSC: Palustrine, Scrub-shrub, Seasonally Flooded

FIGURE 3B

CV Link
Jurisdictional Delineation Report

NWI Map

Source: CV LINK KMZ UPDATE 7.25.16 PL 2, CONUS_wet_poly.shp,world imagery

S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\NWI1.mxd (10/11/2016)

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APPENDIX C

JURISDICTIONAL DELINEATION MAPS

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LEGEND

- Current Alignment 2016
- Index Pages

CVAG

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Miles

Source: CV Link_Construction Documents_ 30% Plan Set, Bing Maps

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APPENDIX 3A

DRAFT

CV Link
Jurisdictional Delineation Report

JD Overview

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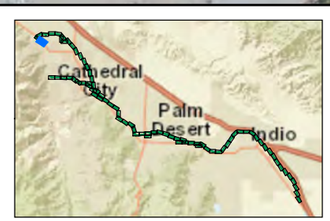
LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location

CVAG

0 200

Feet



Source: CV Link_Construction Documents_ 30% Plan Set & CVLINK_FULLROUTE11.8\CVLINKt.shp, ESRI world imagery

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CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

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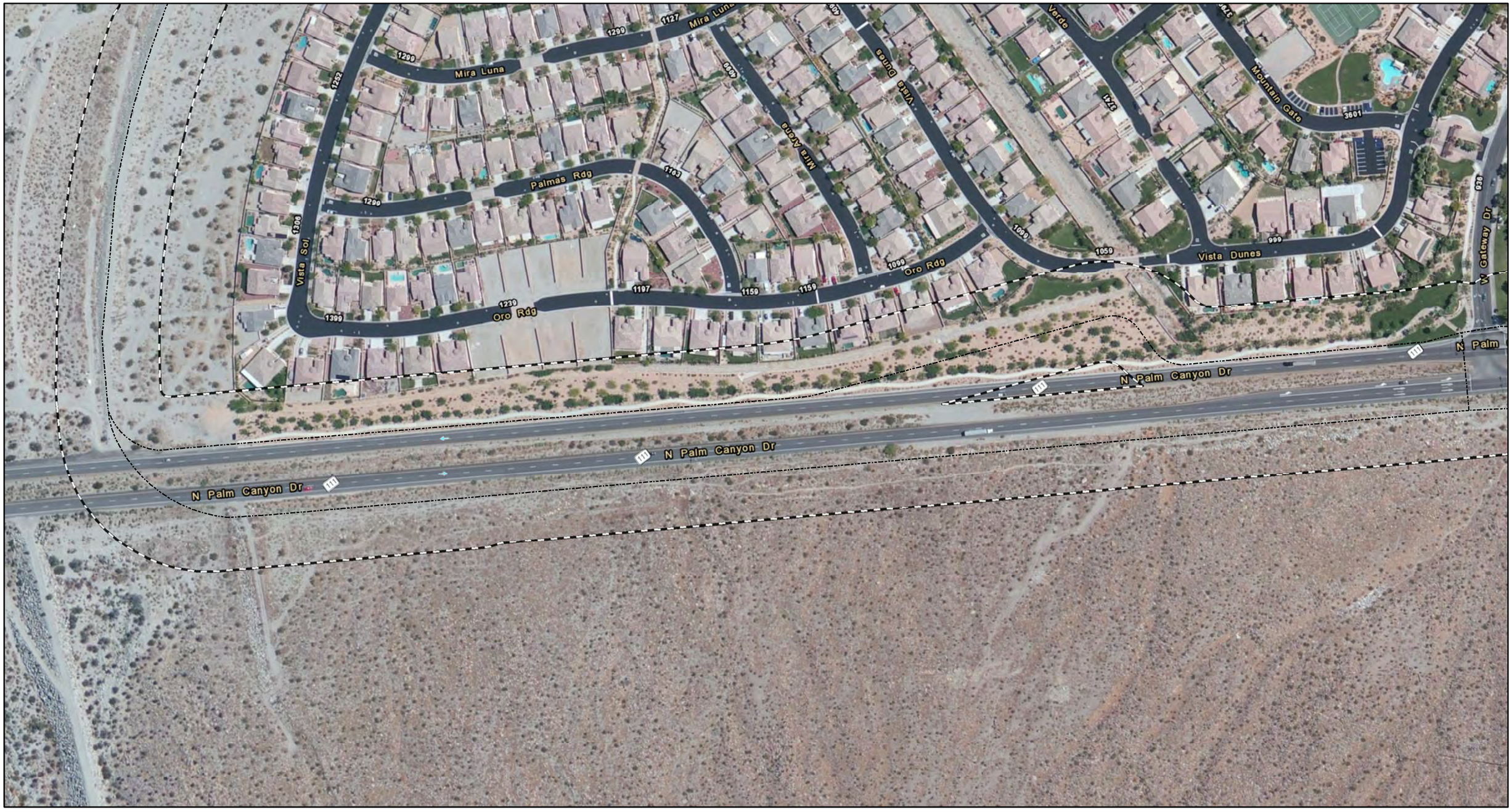

CVAG

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Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location

Source: CV Link_Construction Documents_ 30% Plan Set & CVLINK_FULLROUTE11.8\CVLINKt.shp, ESRI world imagery

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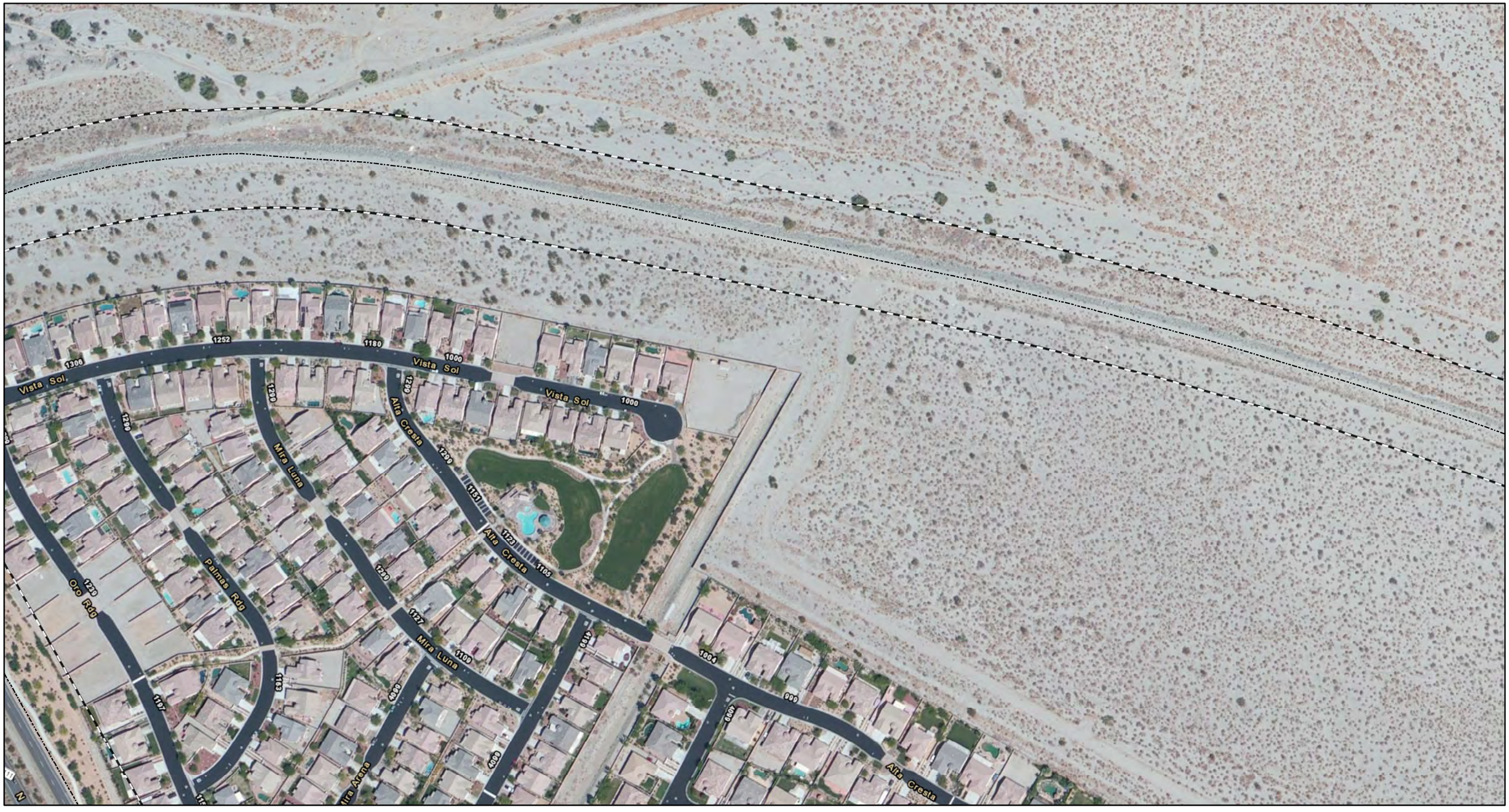
amec foster wheeler



CVAG

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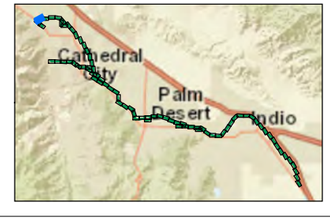
Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location



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CVAG

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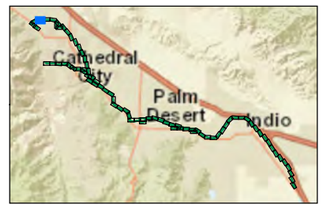
Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location



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DRAFT

CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

amec foster wheeler

CVAG

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Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location

Source: CV Link_Construction Documents_ 30% Plan Set & CVLINK_FULLROUTE11.8\CVLINKt.shp, ESRI world imagery

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amec foster wheeler

CVAG

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Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location

Source: CV Link_Construction Documents_ 30% Plan Set & CVLINK_FULLROUTE11.8\CVLINKt.shp, ESRI world imagery

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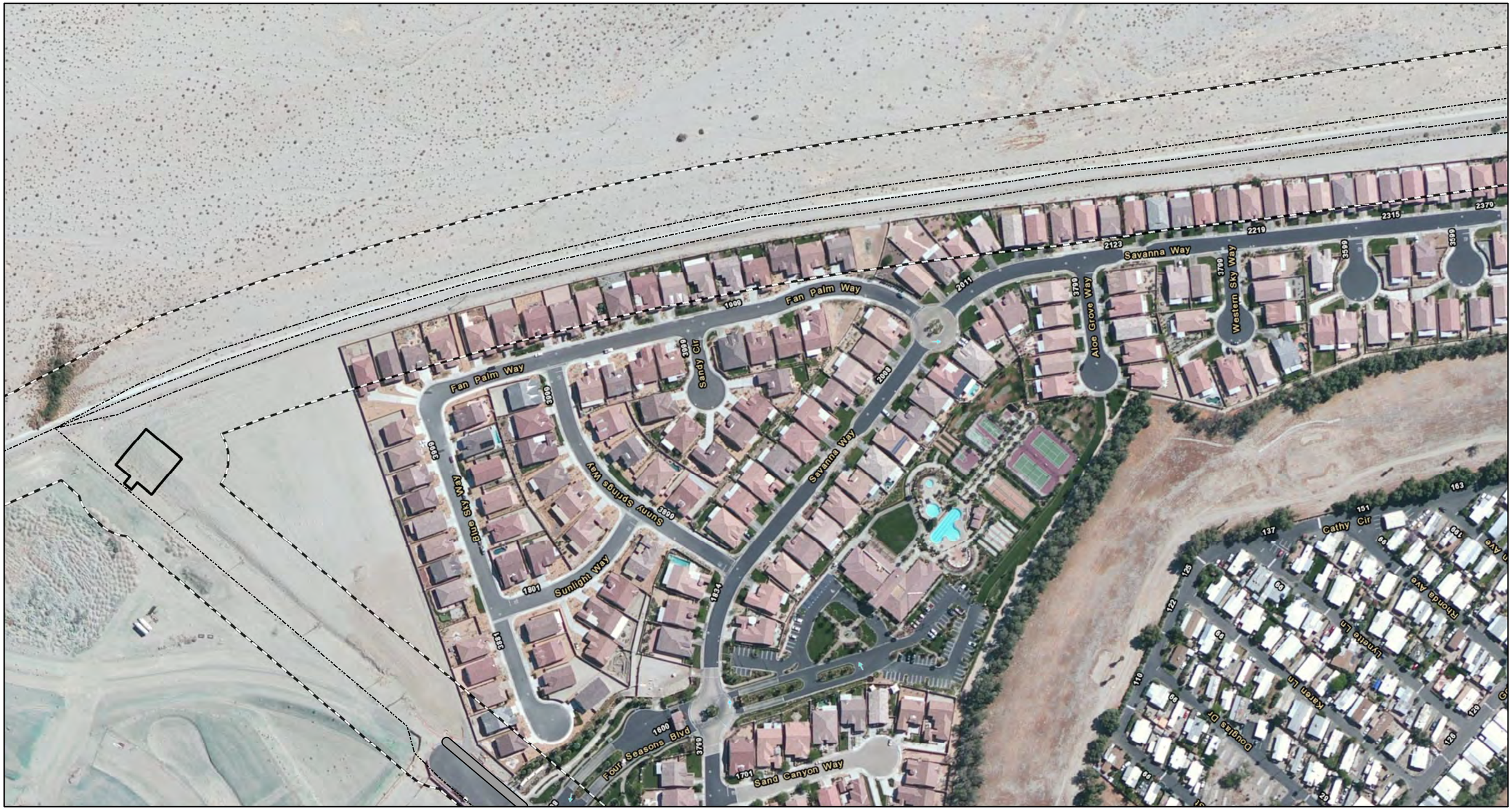
DRAFT

CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

amec foster wheeler



CVAG

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Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location

Source: CV Link_Construction Documents_ 30% Plan Set & CVLINK_FULLROUTE11.8\CVLINKt.shp, ESRI world imagery

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DRAFT

CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

amec foster wheeler

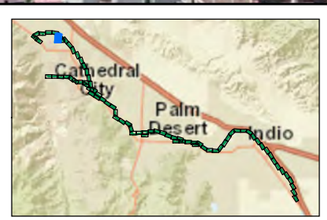
LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location

CVAG

0 200

Feet



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DRAFT

CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

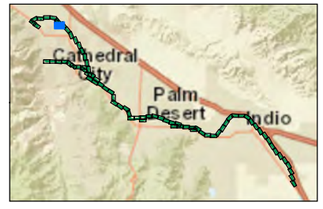
amec foster wheeler

CVAG

0 200
Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location



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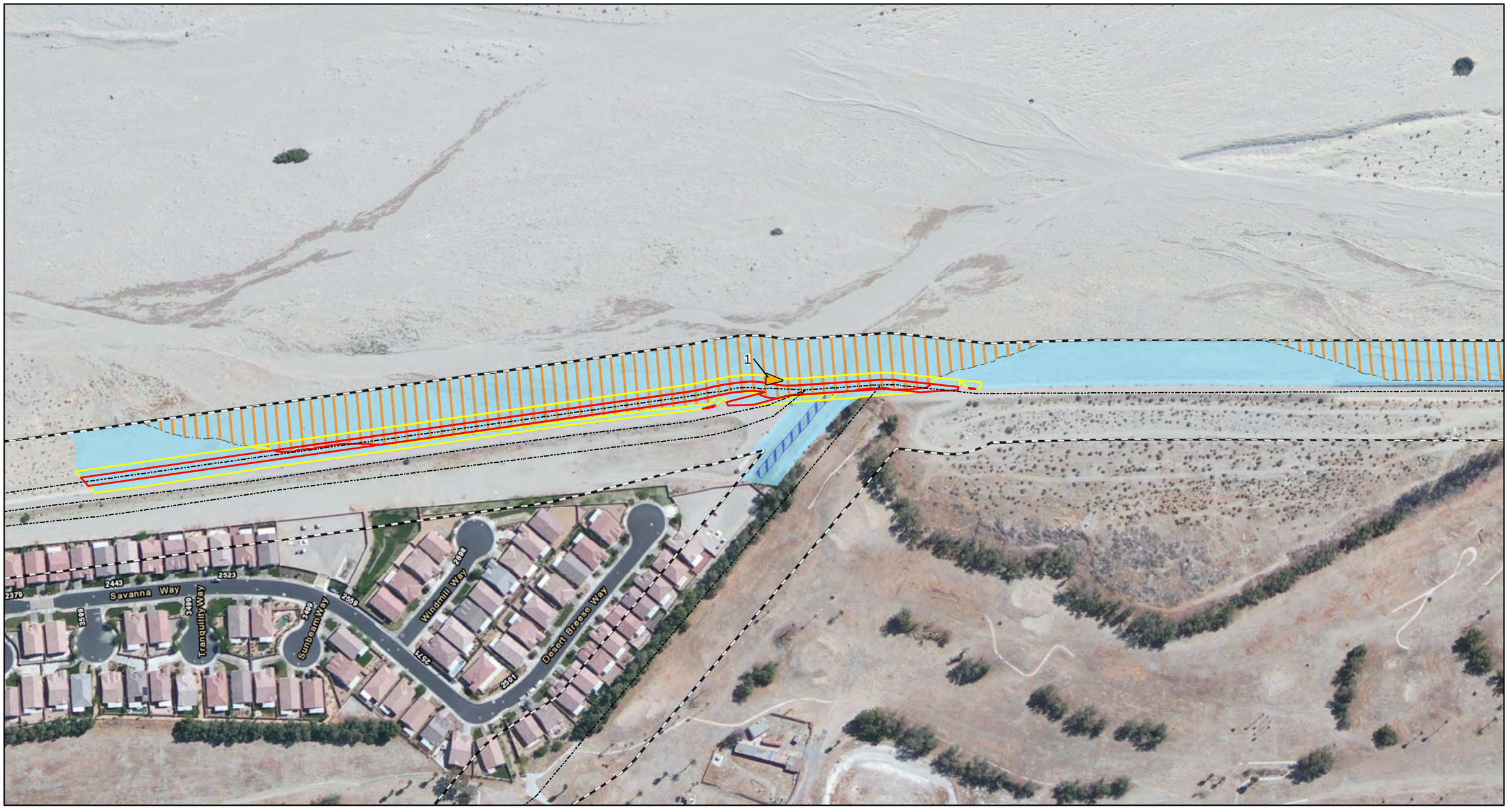
amec foster wheeler



CVAG

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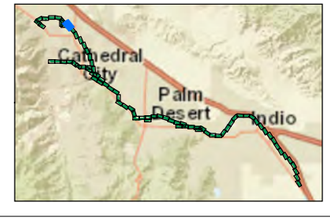
Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location



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CVAG

0 200
Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location

Source: CV Link_Construction Documents_ 30% Plan Set & CVLINK_FULLROUTE11.8\CVLINKt.shp, ESRI world imagery

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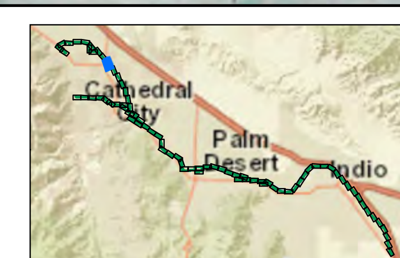
amec foster wheeler



LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location

0 200
Feet

Source: CV Link_Construction Documents_ 30% Plan Set & CVLINK_FULLROUTE11.8\CVLINKt.shp, ESRI world imagery

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APPENDIX 3B

DRAFT

CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

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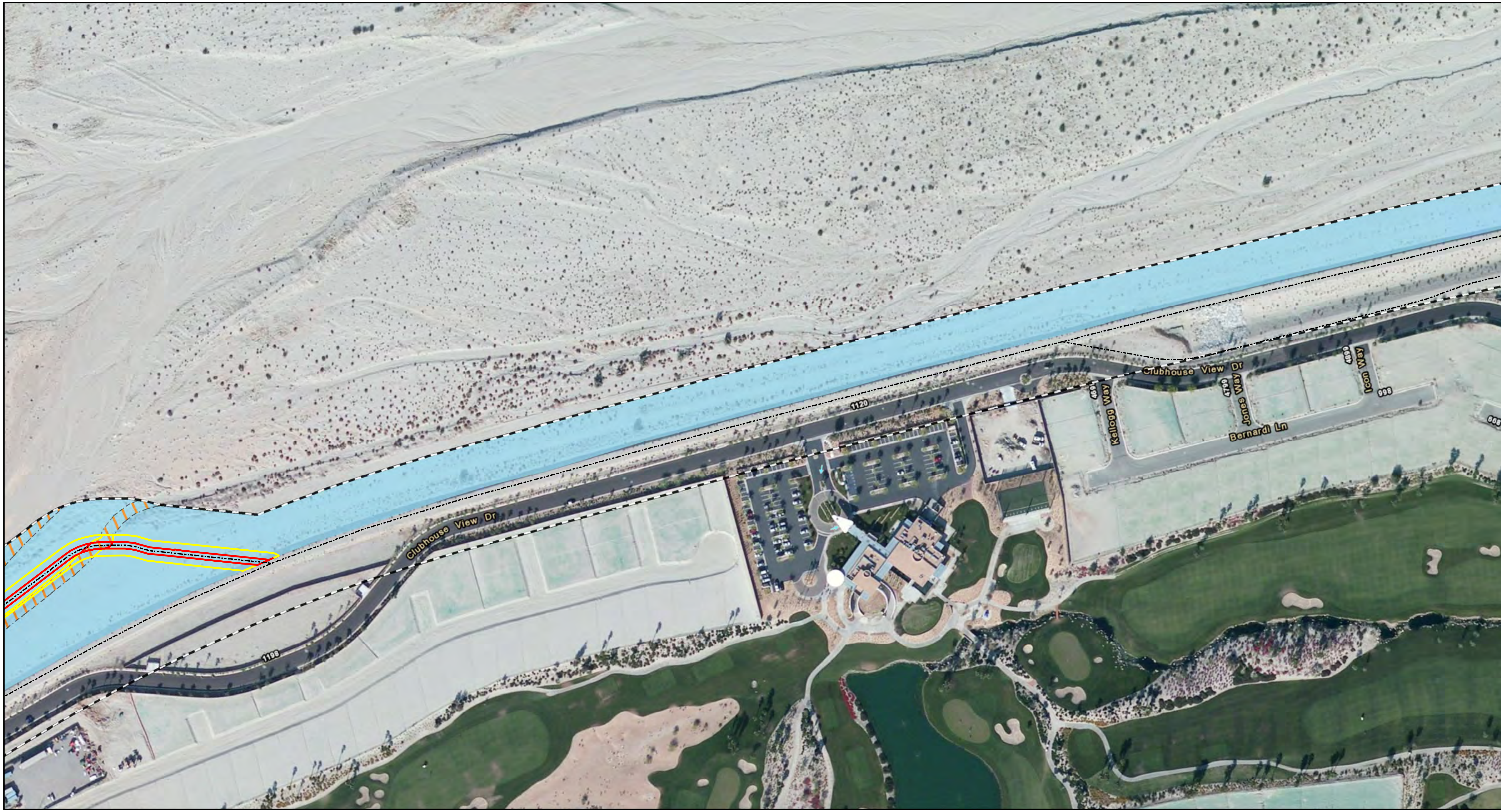
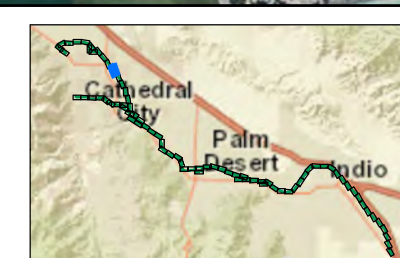


CVAG

0 200
Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location



APPENDIX 3B

DRAFT

CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

Source: CV Link_Construction Documents_ 30% Plan Set & CVLINK_FULLROUTE11.8\CVLINKt.shp, ESRI world imagery

S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\jdv2.mxd (12/14/2016)

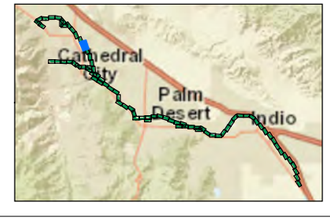
amec foster wheeler

CVAG

0 200
Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location



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S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\jdv2.mxd (12/14/2016)

DRAFT

CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

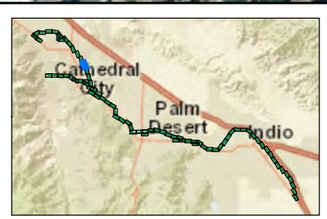
amec foster wheeler

CVAG

0 200
Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location



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S:\active projects\CV-Link MSHCP Compliance 3-2252-0065\graphics\mxd\10.3\jdv2.mxd (12/14/2016)

DRAFT

CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

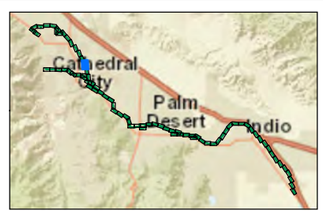
amec foster wheeler

CVAG

0 200
Feet

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location



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amec foster wheeler

CVAG

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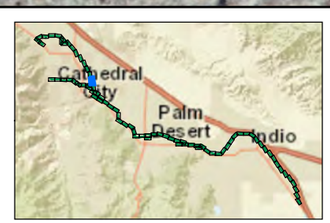
LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location



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Jurisdictional Delineation Report

Jurisdictional Delineation

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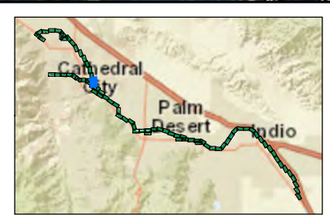

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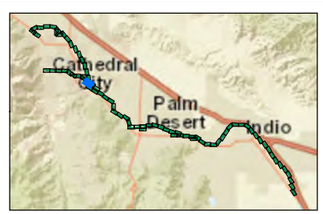

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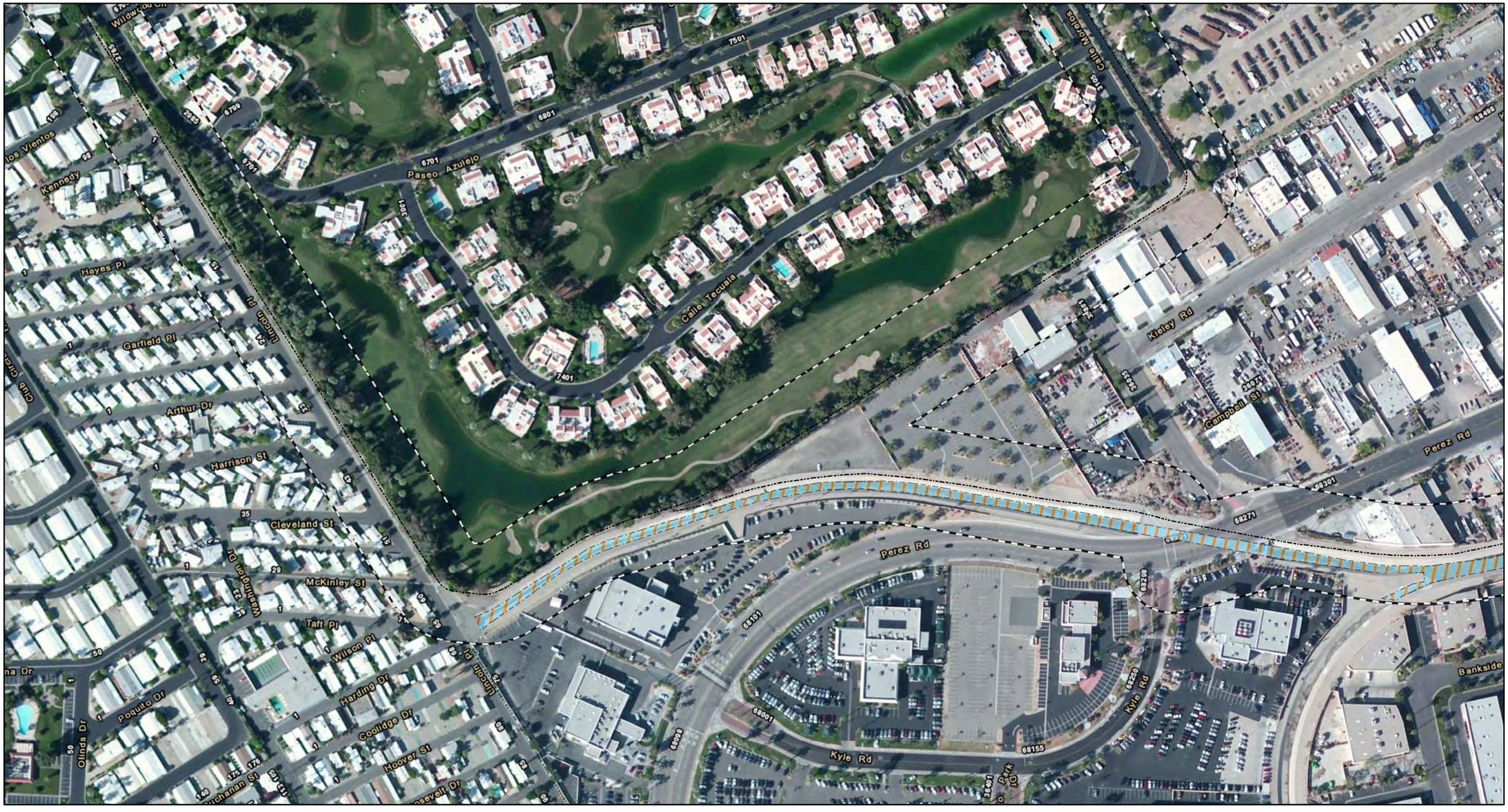

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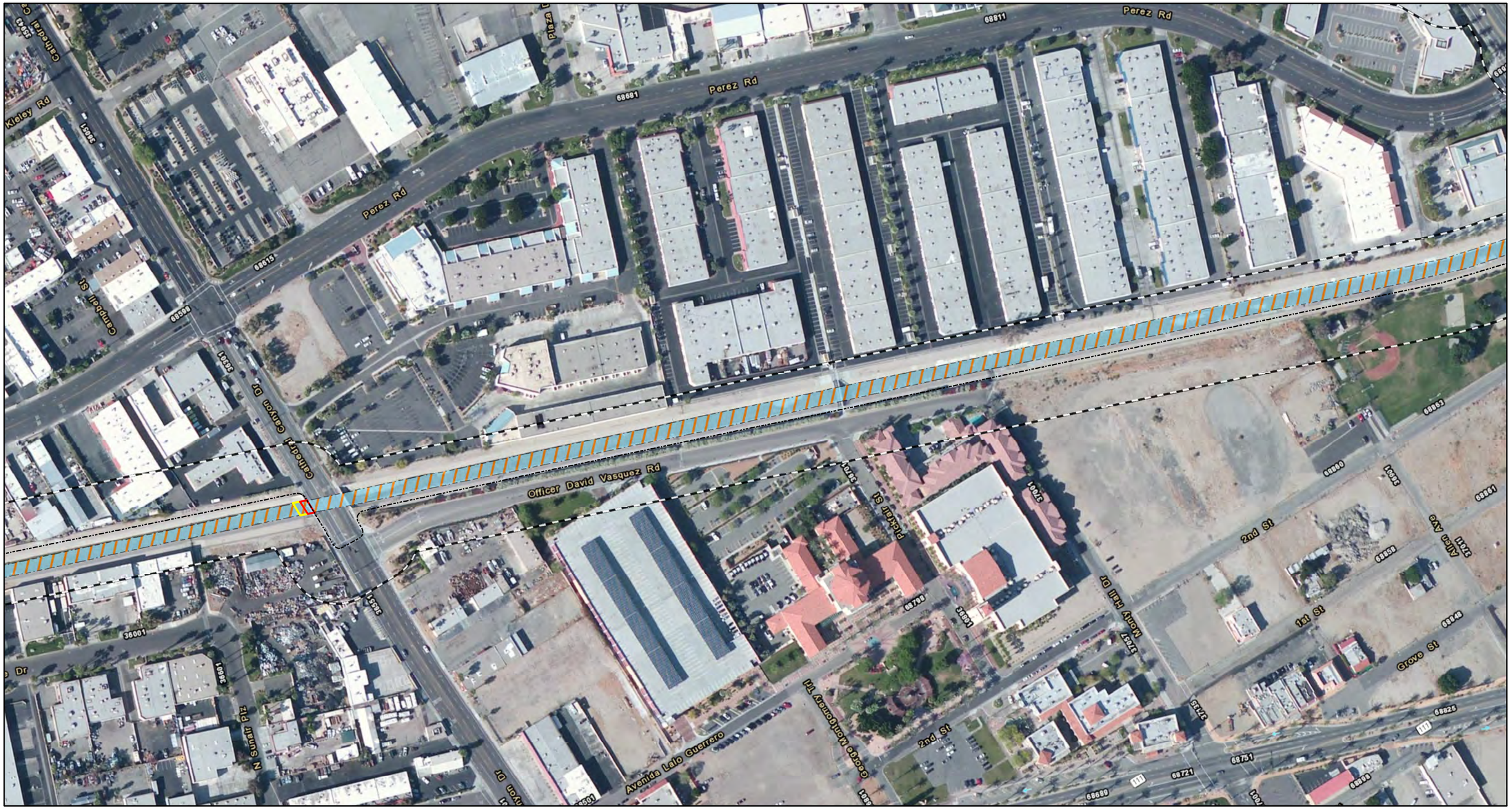

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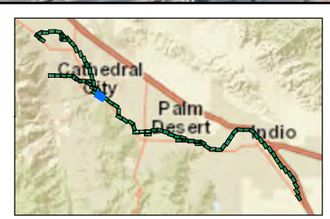

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Jurisdictional Delineation Report

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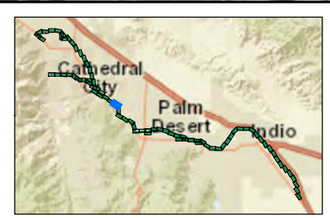

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Jurisdictional Delineation Report

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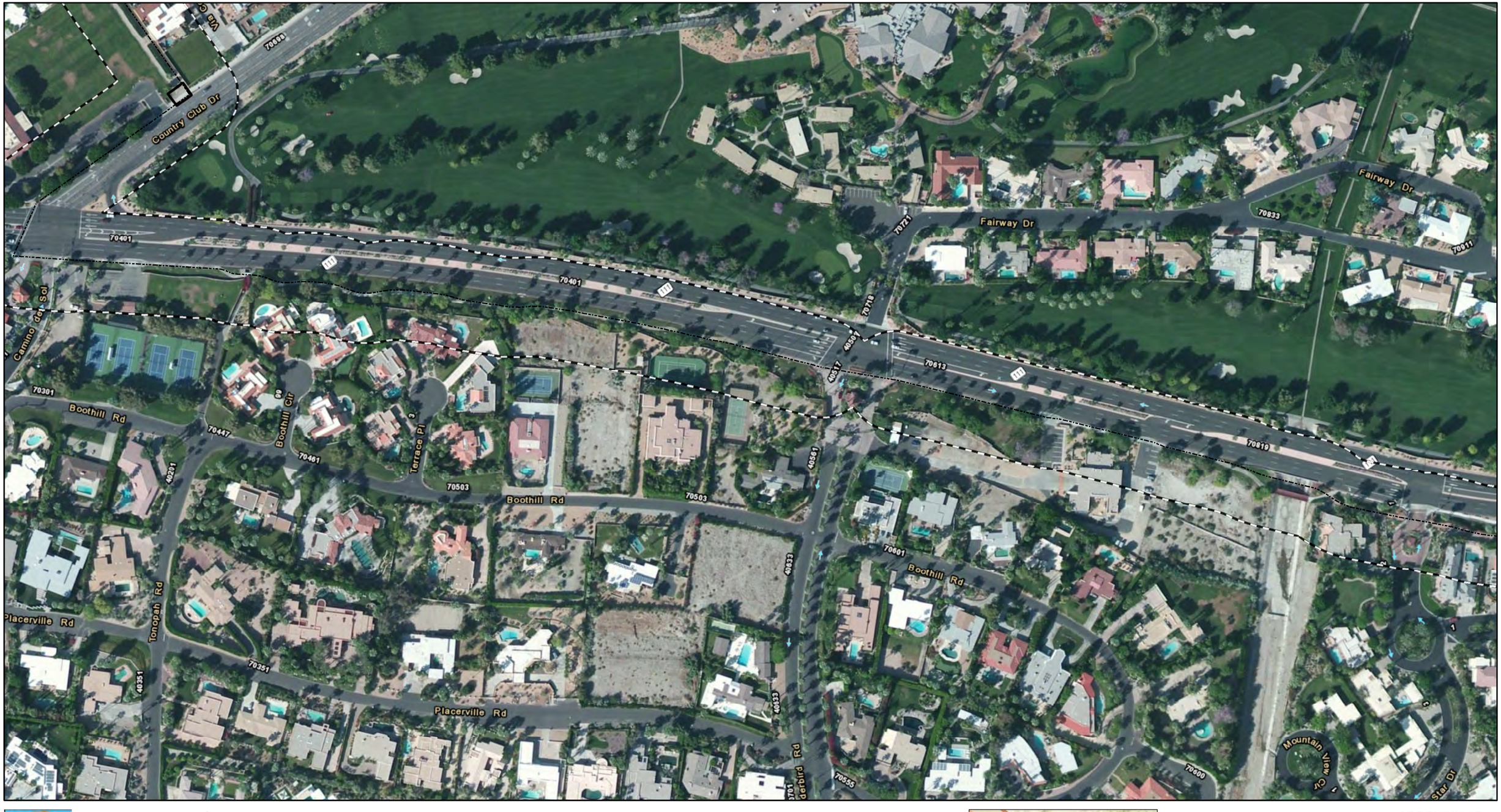

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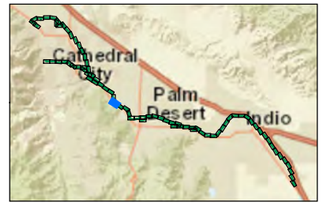

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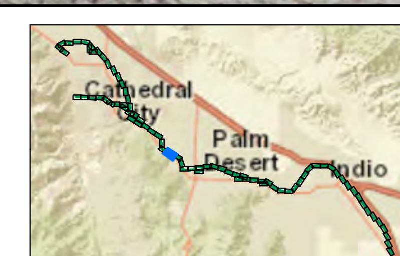

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APPENDIX 3B

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Jurisdictional Delineation Report

Jurisdictional Delineation

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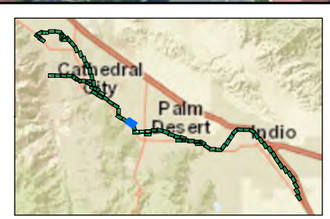

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Jurisdictional Delineation Report

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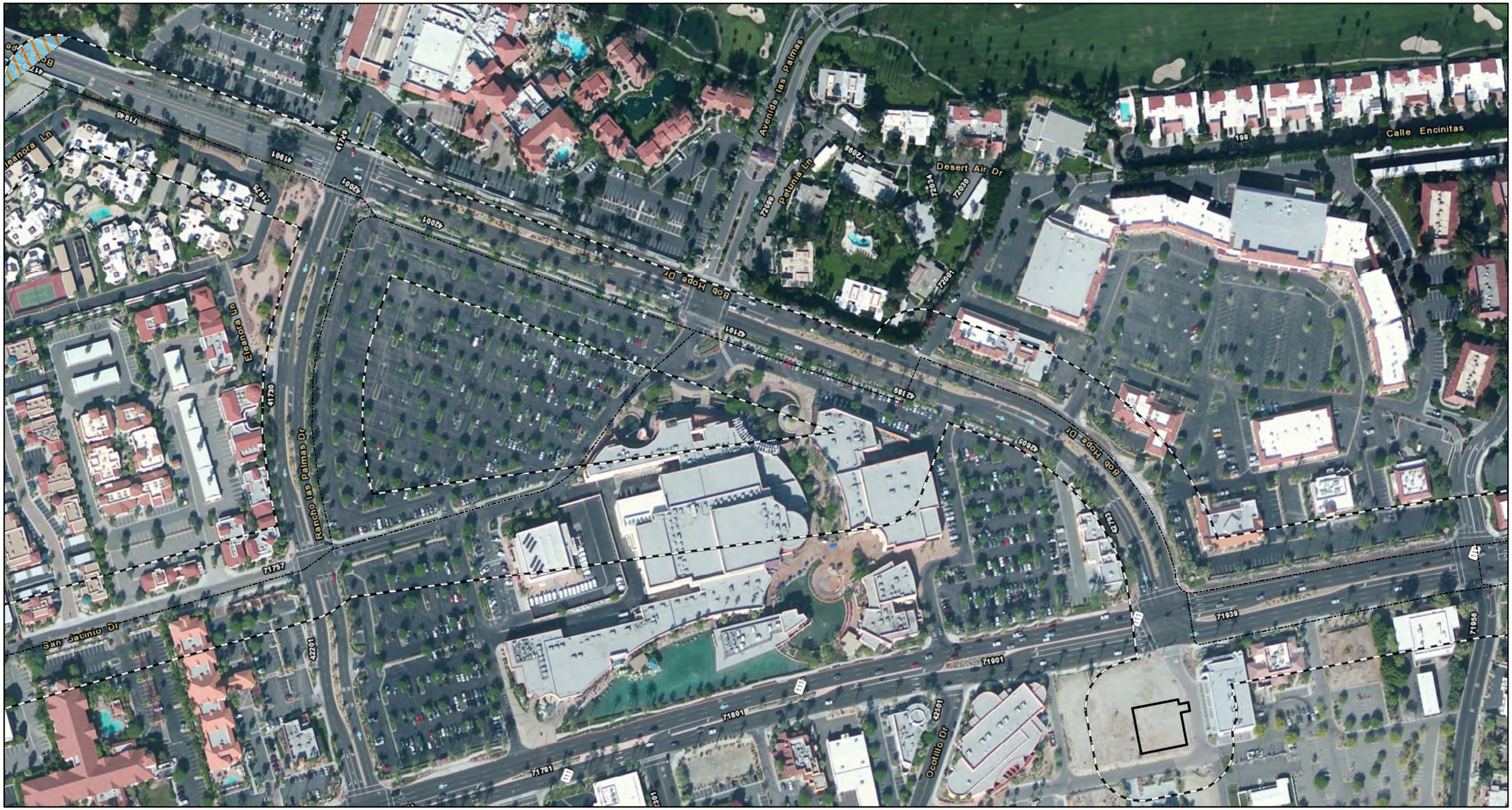

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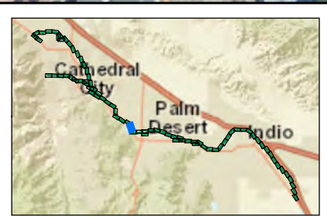

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Jurisdictional Delineation Report

Jurisdictional Delineation

amec foster wheeler

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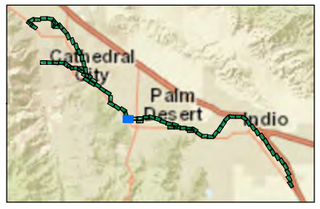

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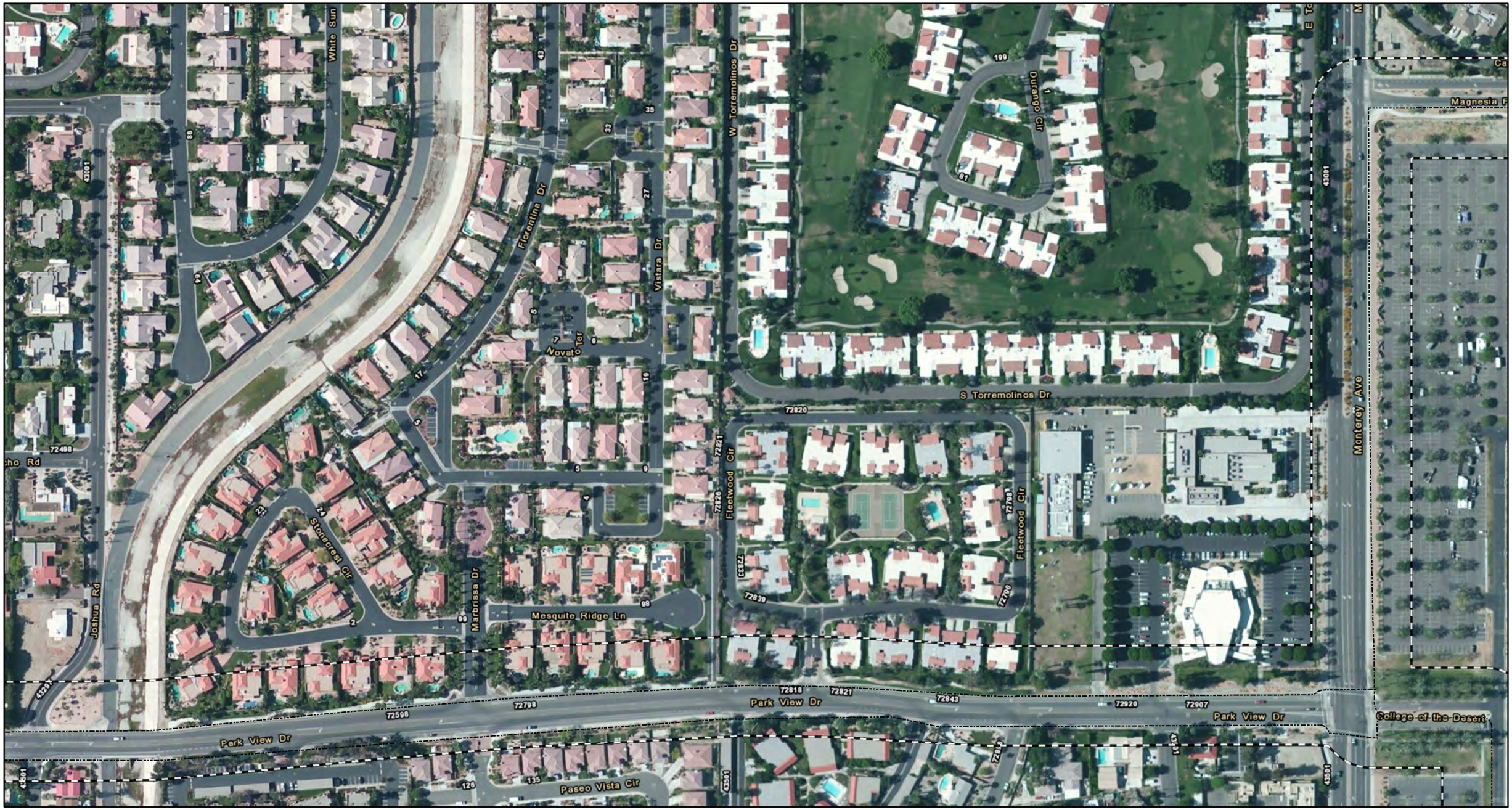
amec foster wheeler



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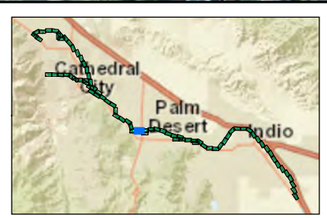

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Jurisdictional Delineation Report

Jurisdictional Delineation

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College of the Desert
Monterey Ave
San Pablo Ave
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73228
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Fred Waring Dr
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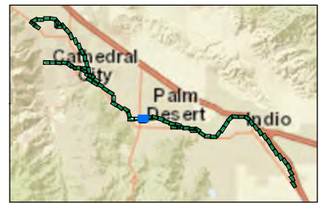

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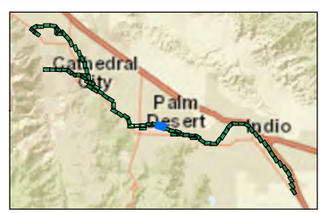

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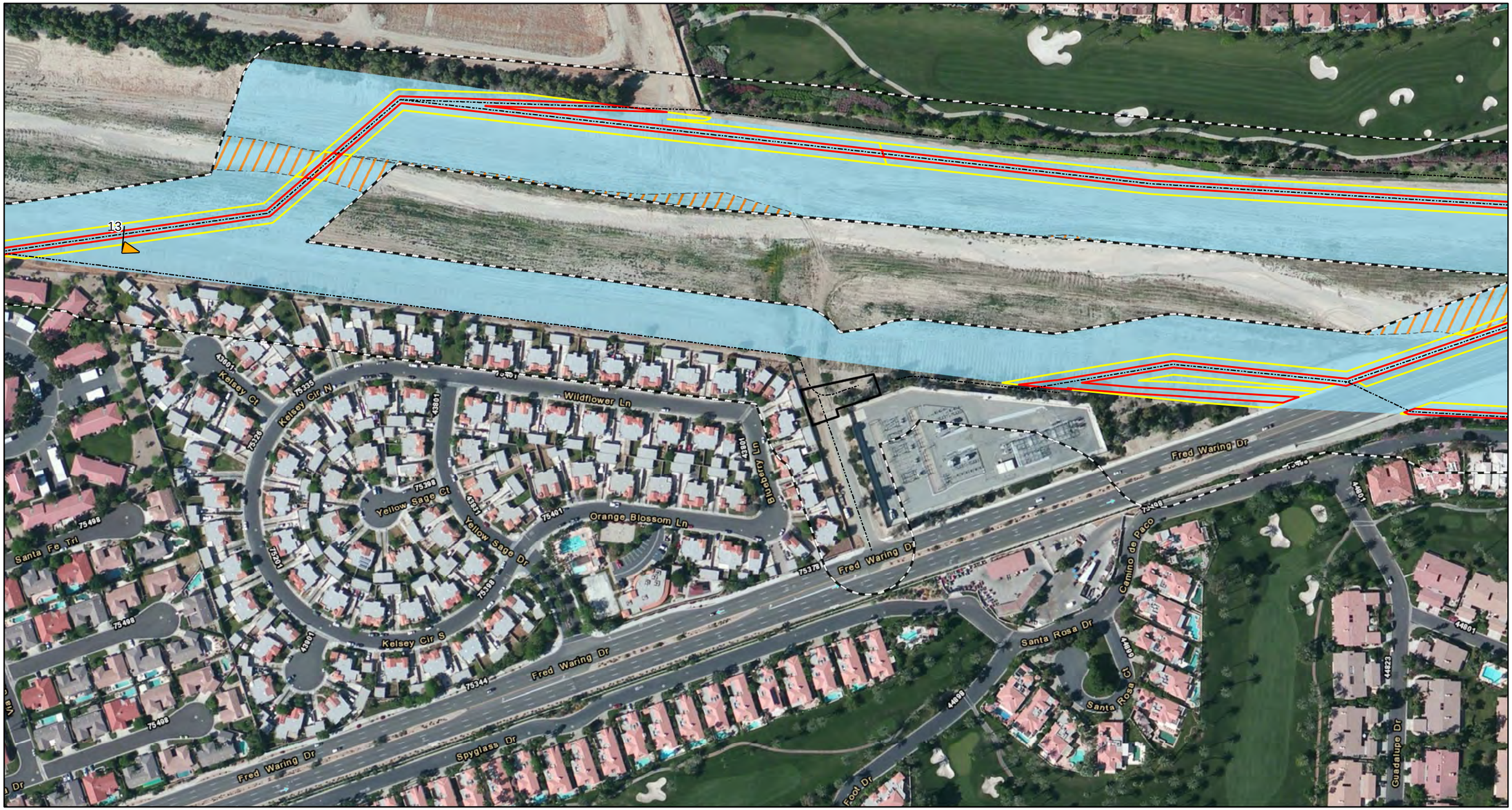
Jurisdictional Delineation



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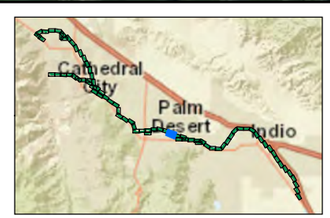

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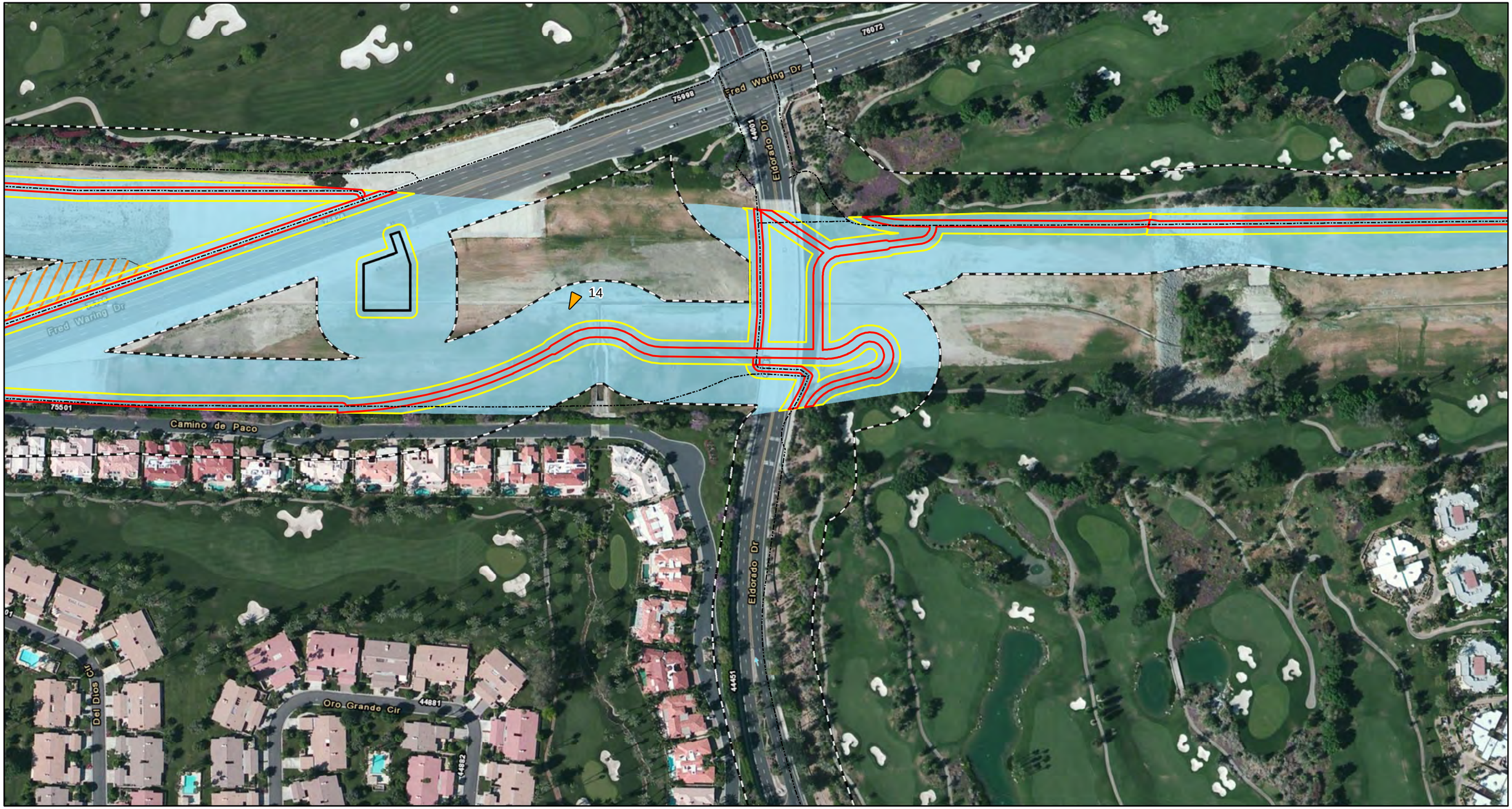

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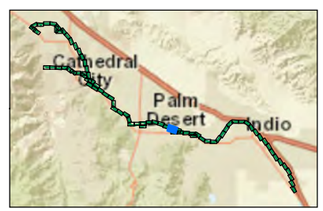

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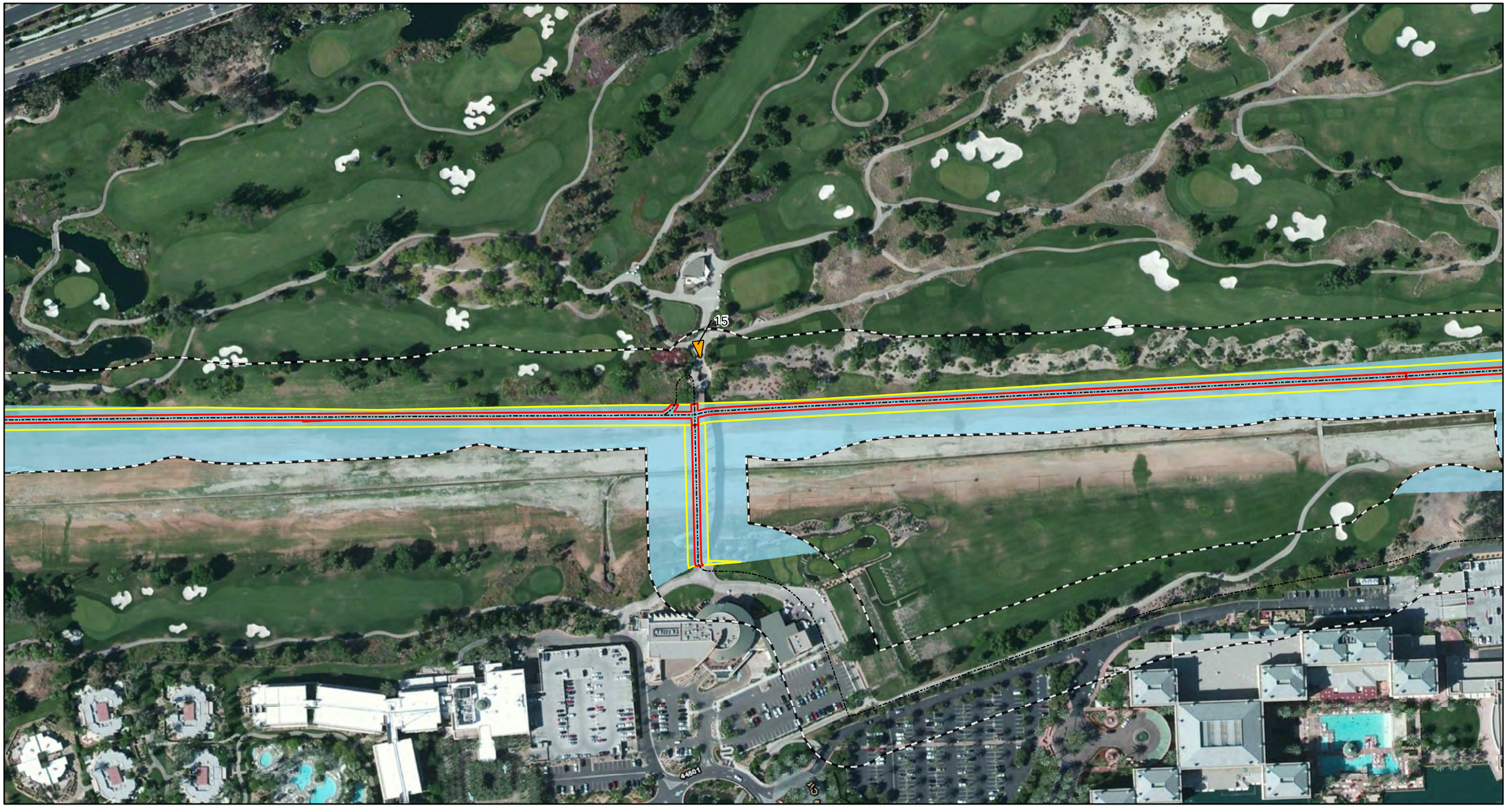

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Jurisdictional Delineation

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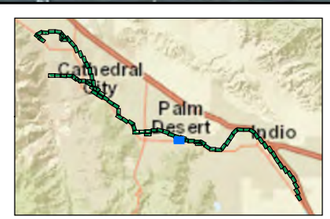

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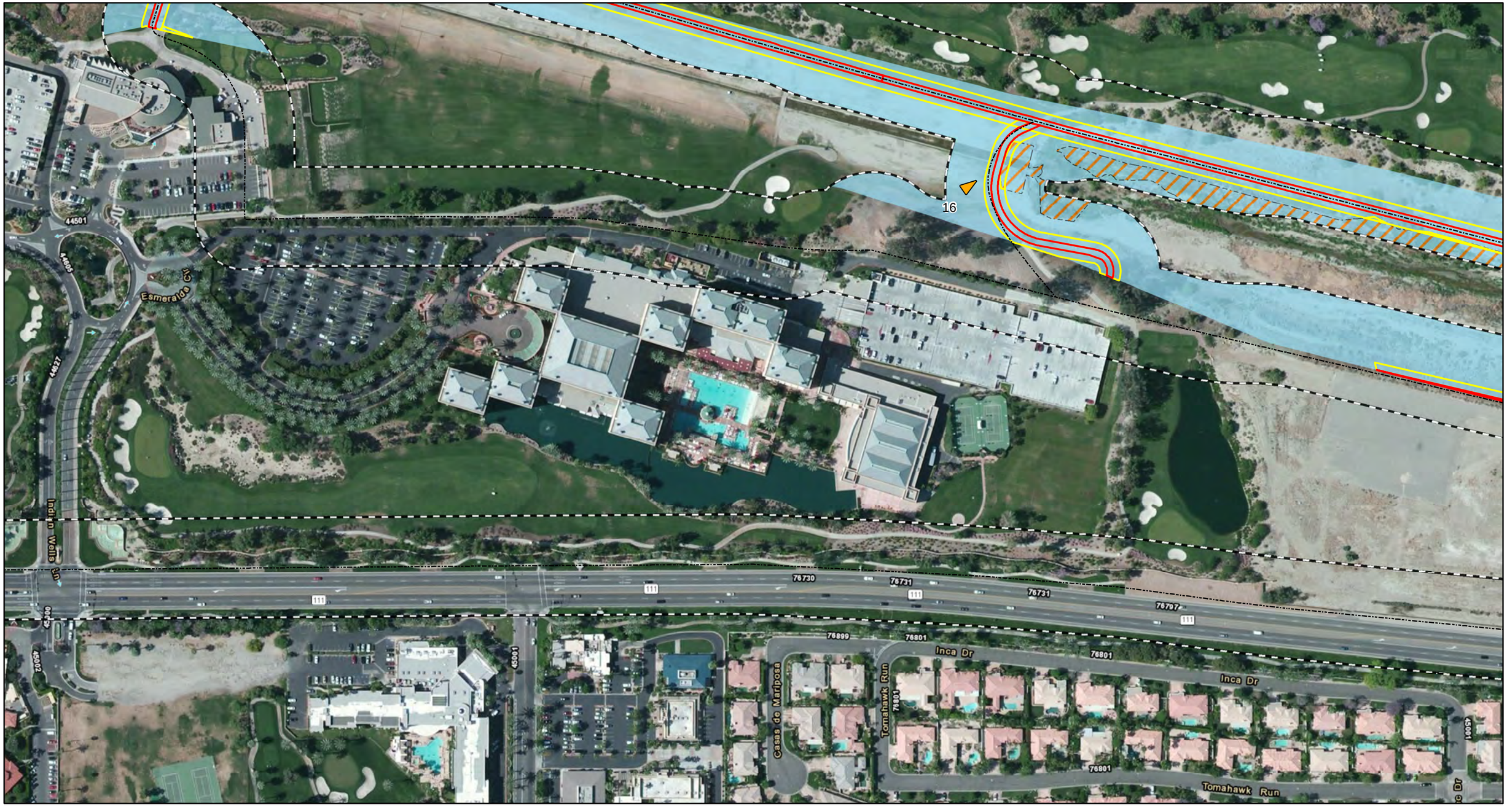

LEGEND

- Survey Area
- CV Link Updated Alignment
- Staging Area
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location

CVAG

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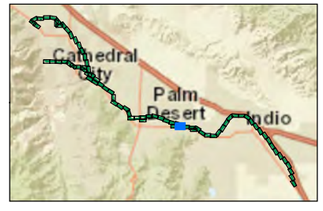

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CVAG

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LEGEND

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- CV Link Updated Alignment
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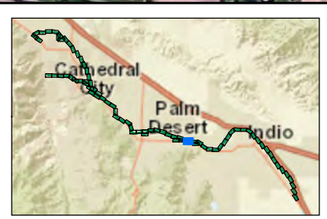
- Permanent Impact
- Temporary Impact
- USACE Non-wetlands
- USACE/CDFW Wetland
- CDFW Jurisdiction
- Photo Location



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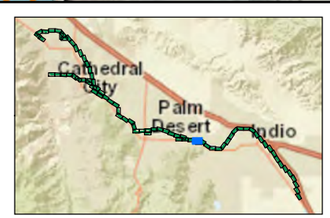

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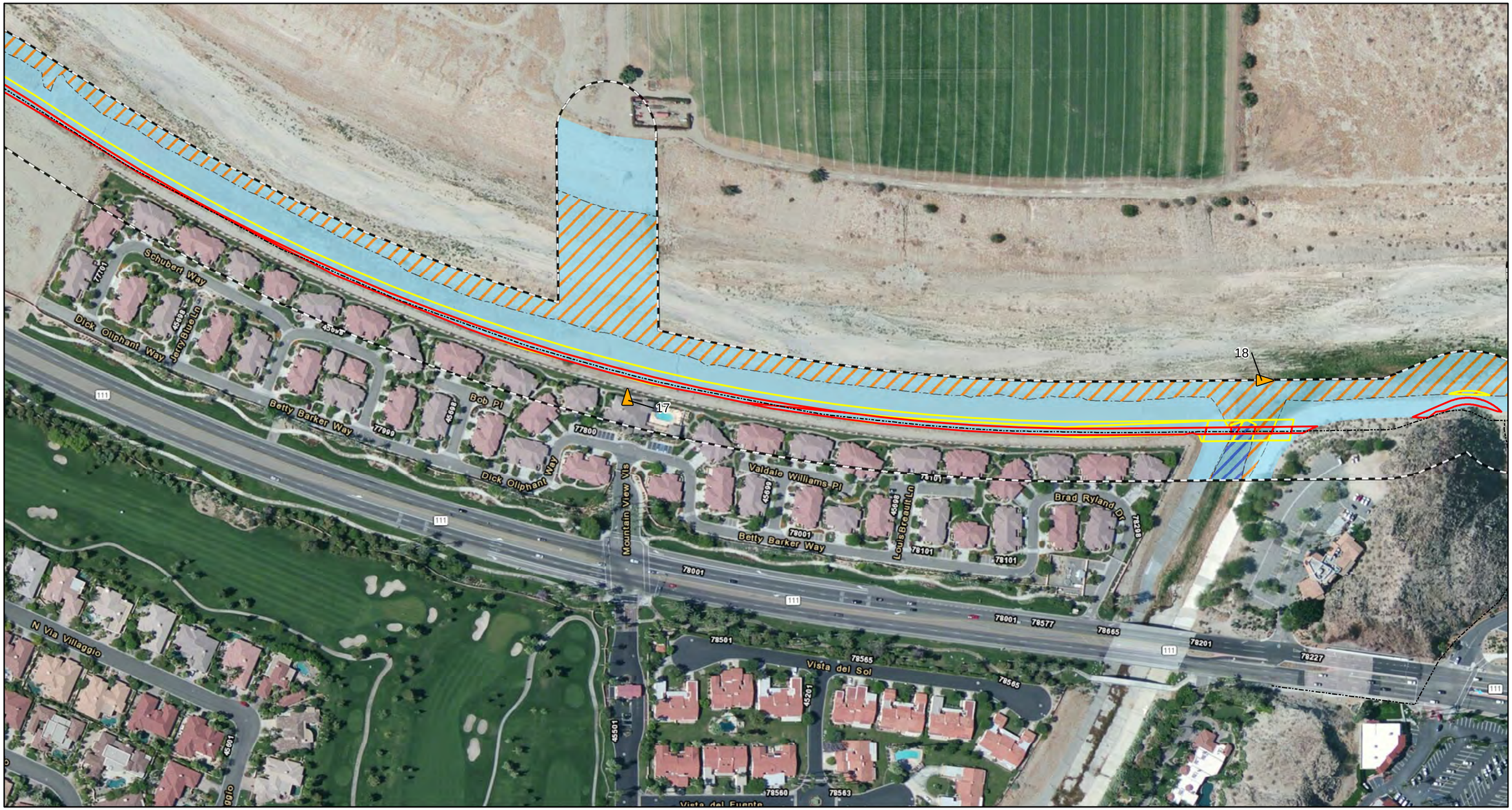

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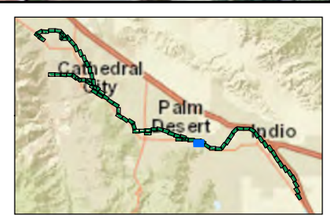

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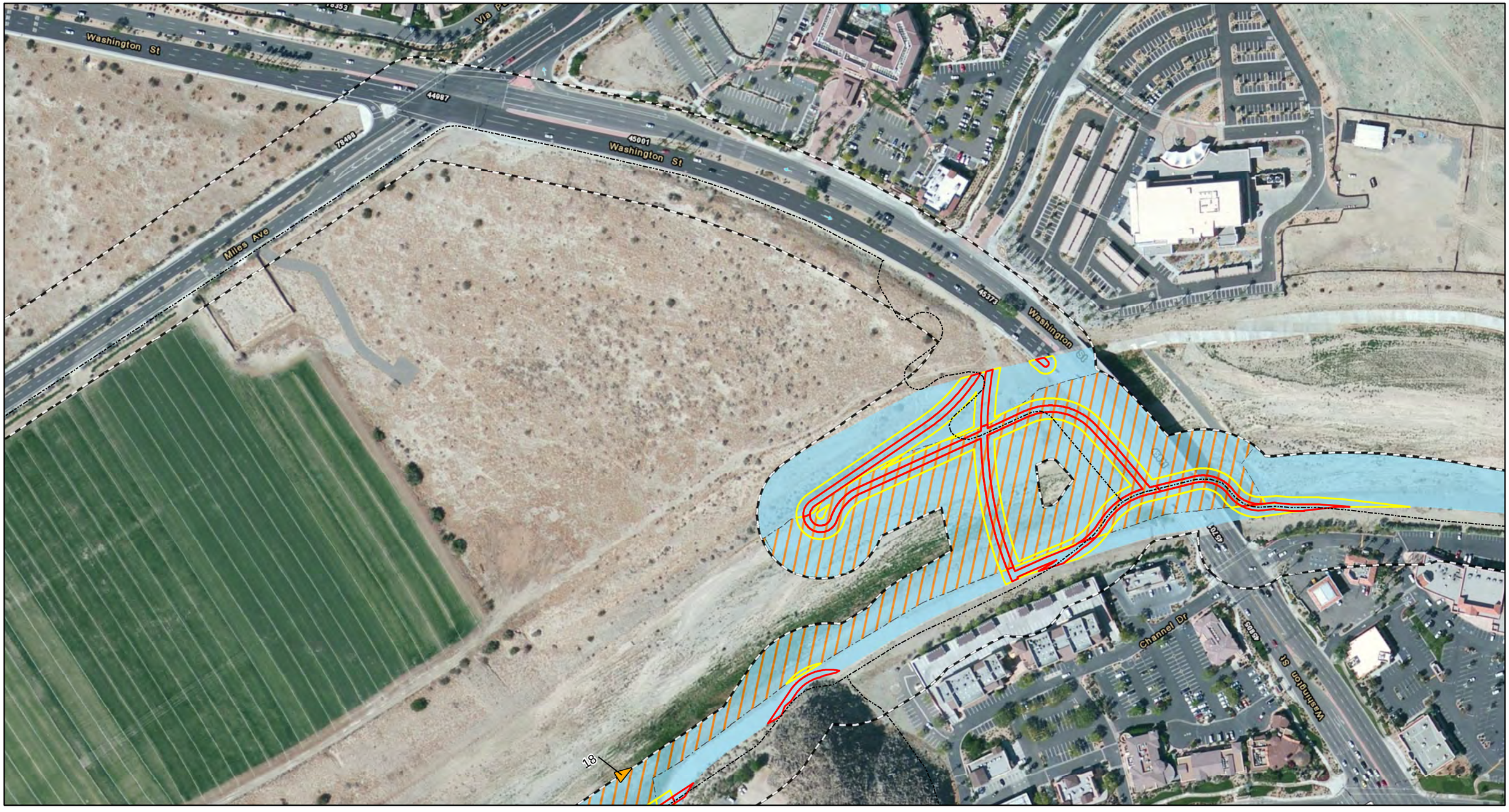
Jurisdictional Delineation



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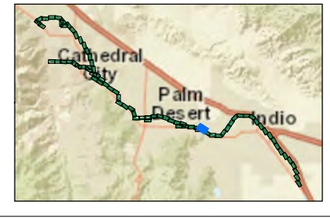

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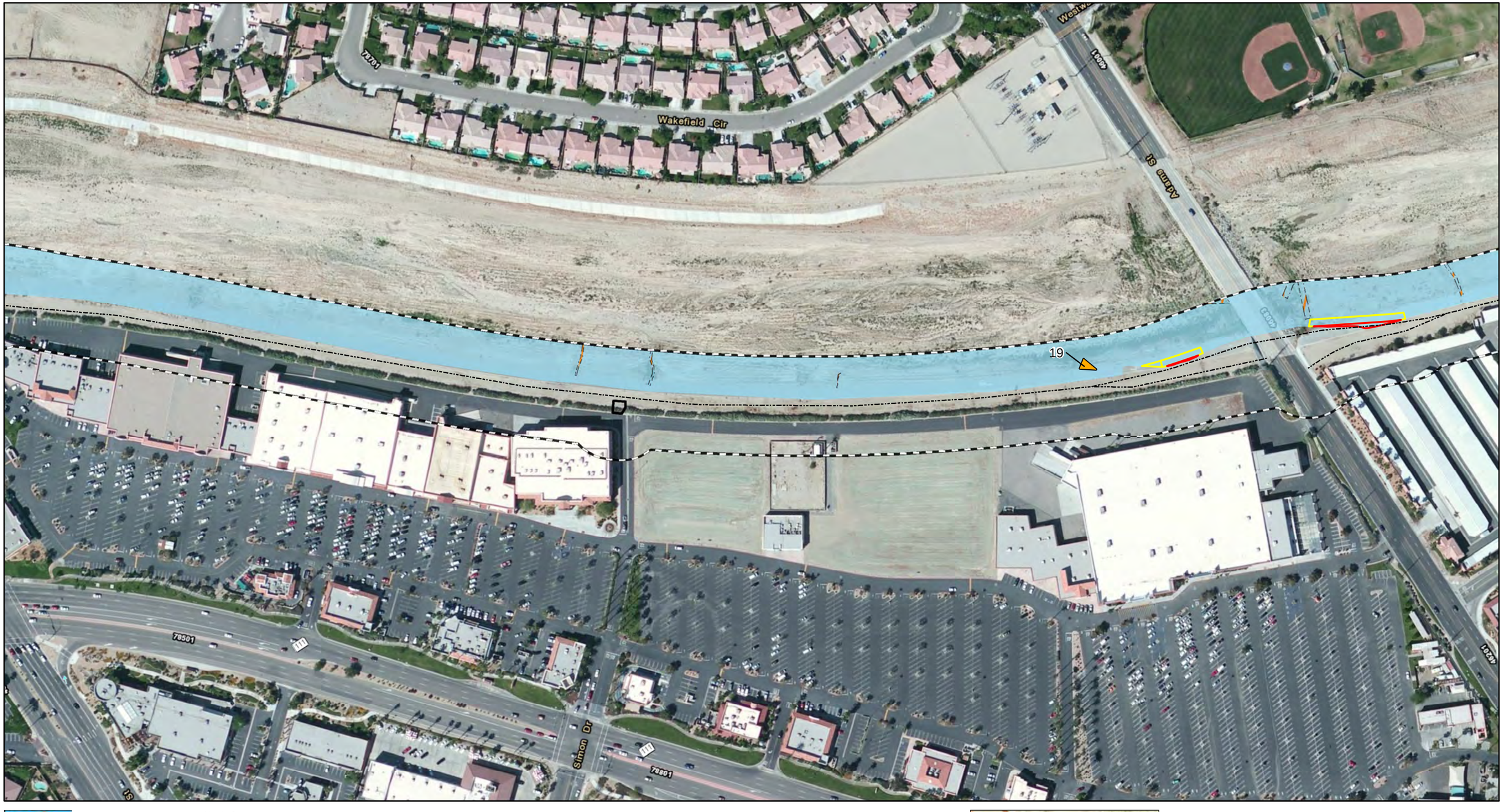
Jurisdictional Delineation



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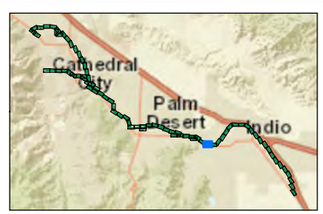

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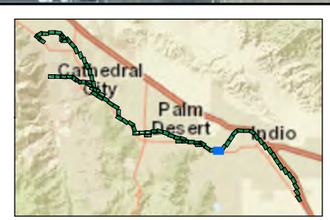

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LEGEND

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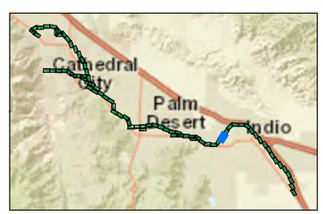

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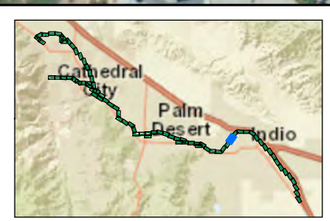

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Jurisdictional Delineation Report

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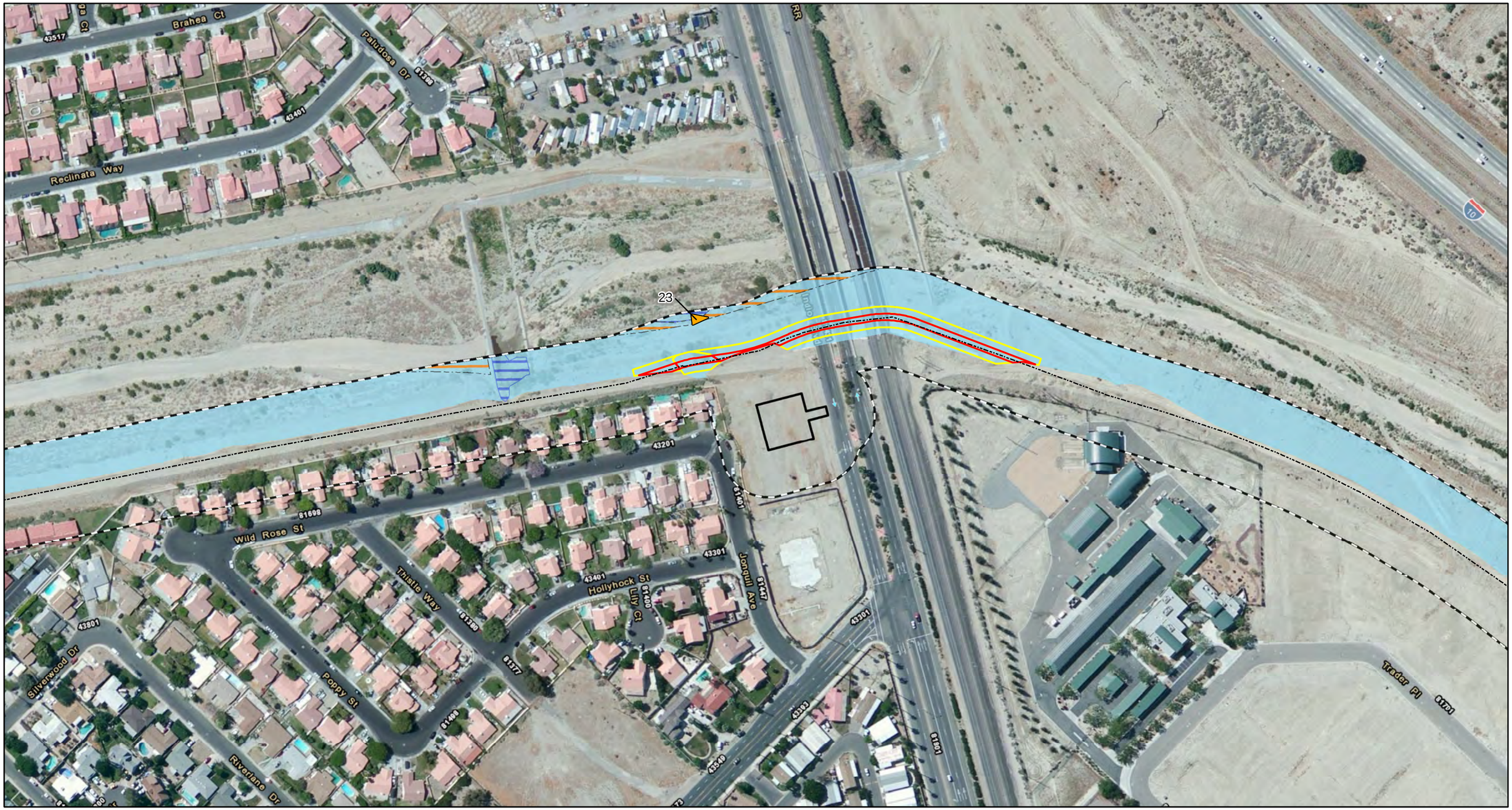

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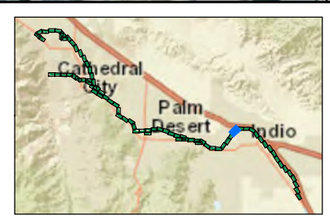

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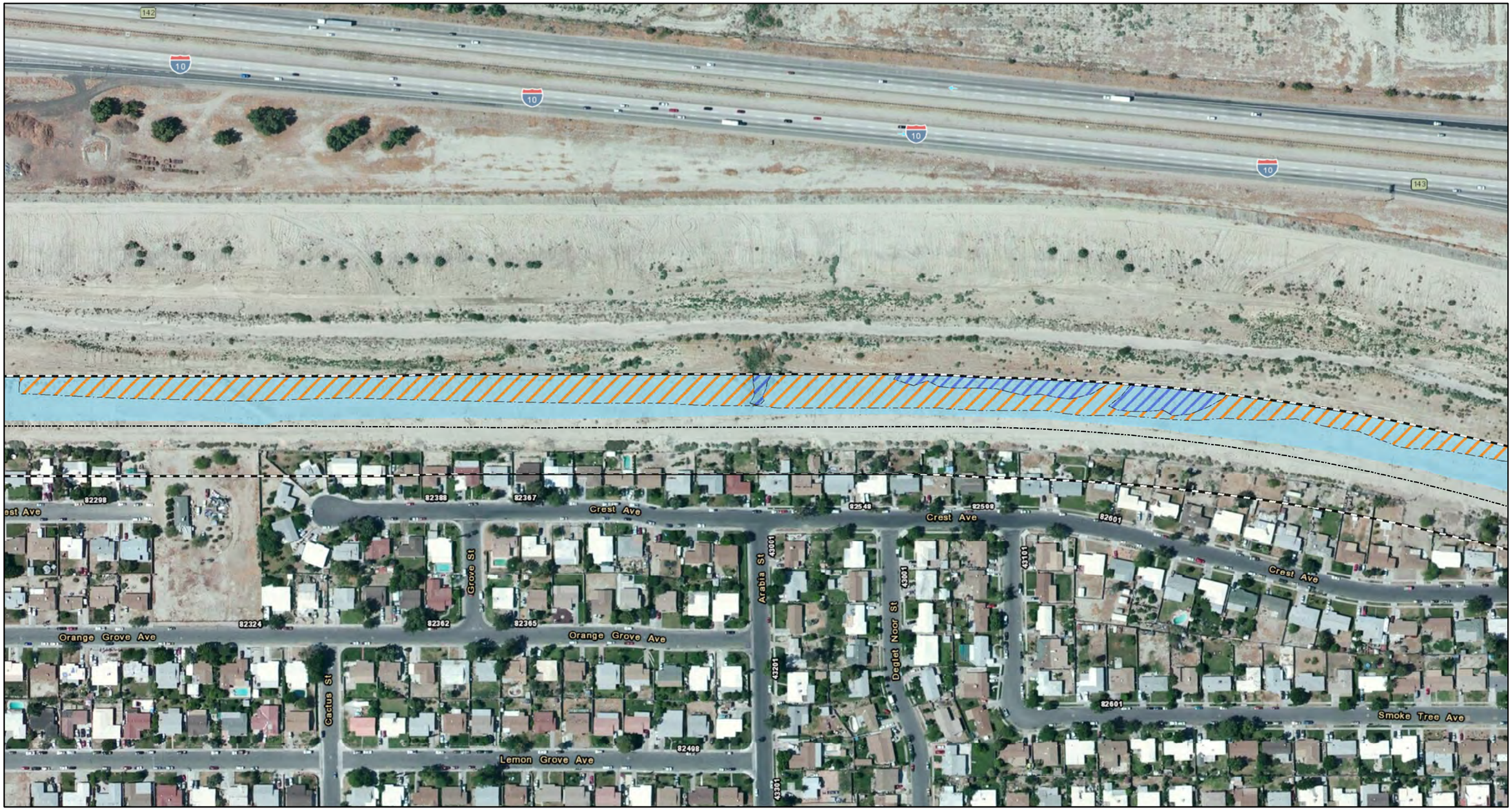

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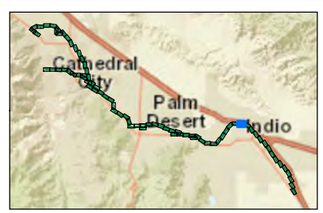

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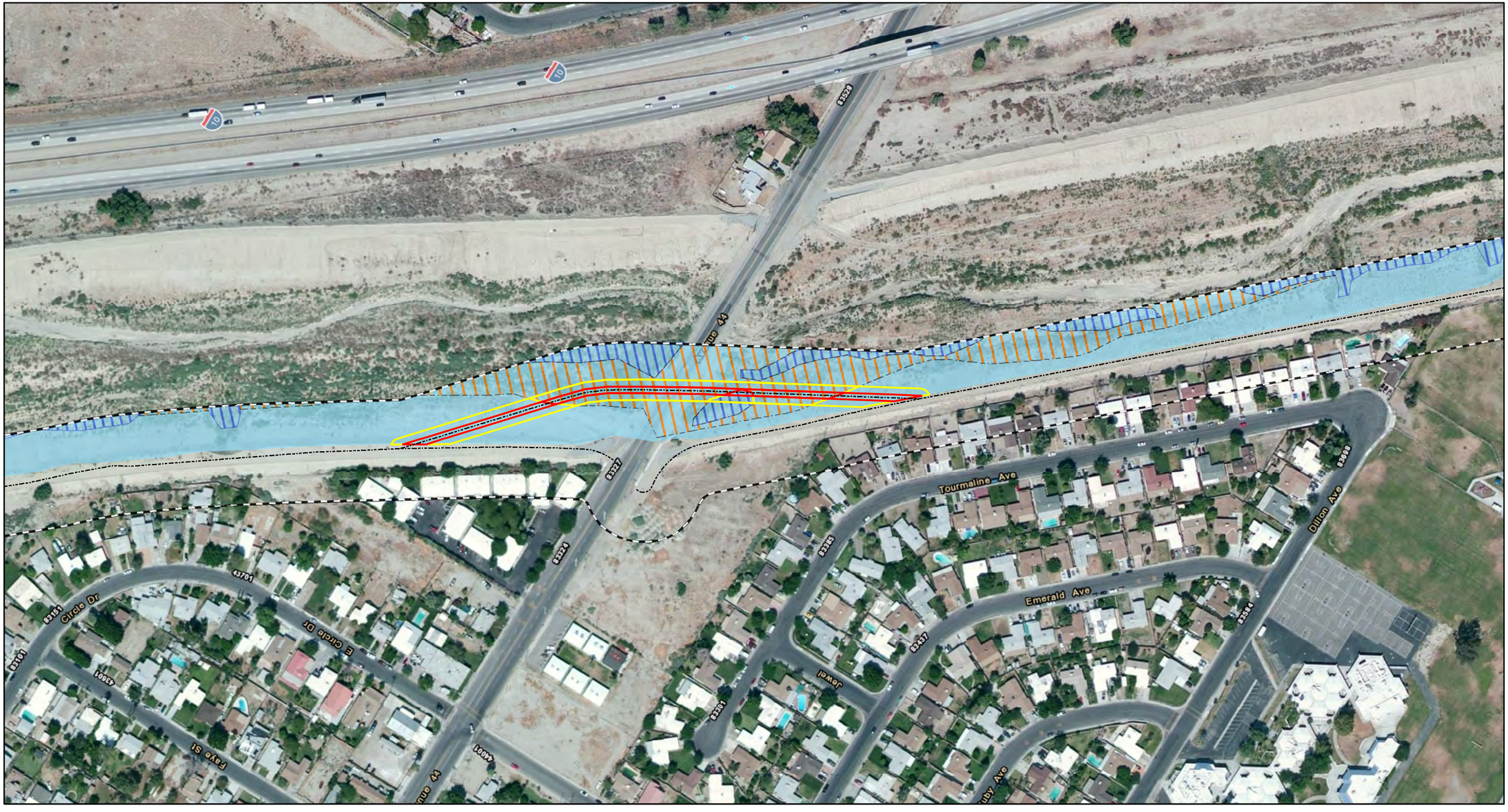
amec foster wheeler



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LEGEND

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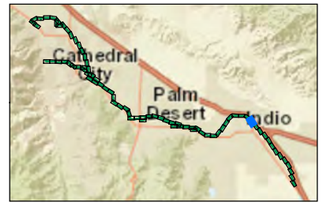

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CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

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CVAG

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LEGEND

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CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

amec foster wheeler

LEGEND

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CVAG

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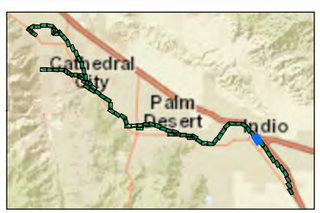

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CVAG

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LEGEND

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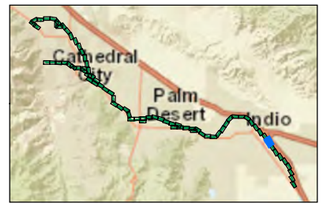

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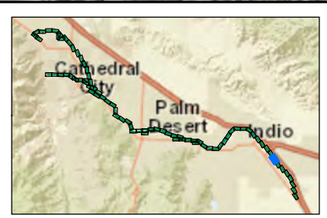

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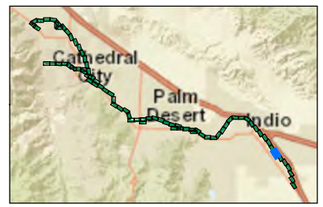

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Jurisdictional Delineation Report

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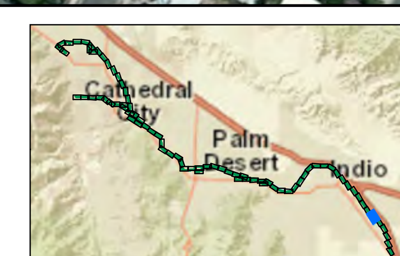

LEGEND

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APPENDIX 3B

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CV LINK
Jurisdictional Delineation Report

Jurisdictional Delineation

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CVAG

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LEGEND

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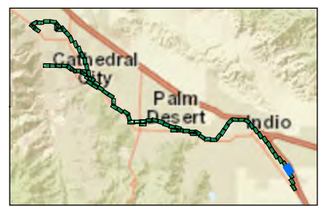

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- Photo Location

Source: CV Link_Construction Documents_ 30% Plan Set & CVLINK_FULLROUTE11.8\CVLINKt.shp, ESRI world imagery

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Jurisdictional Delineation

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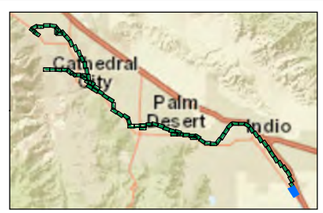

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CV LINK
Jurisdictional Delineation Report

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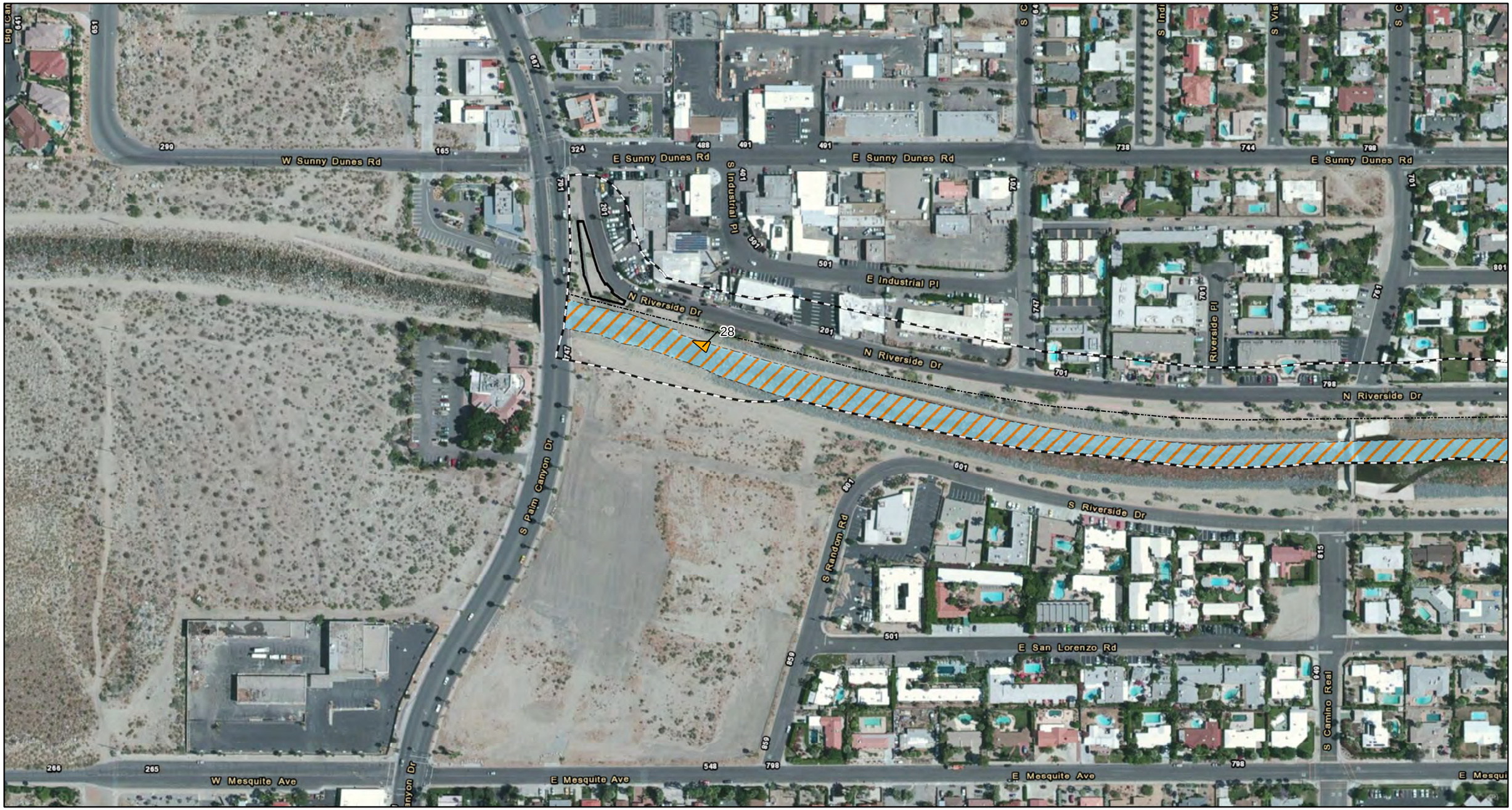

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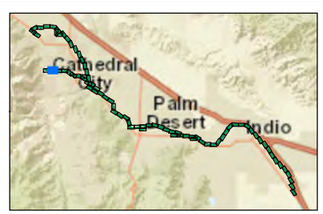

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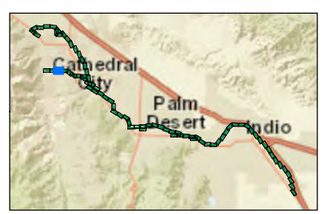

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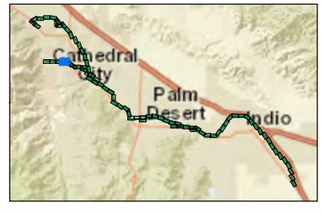

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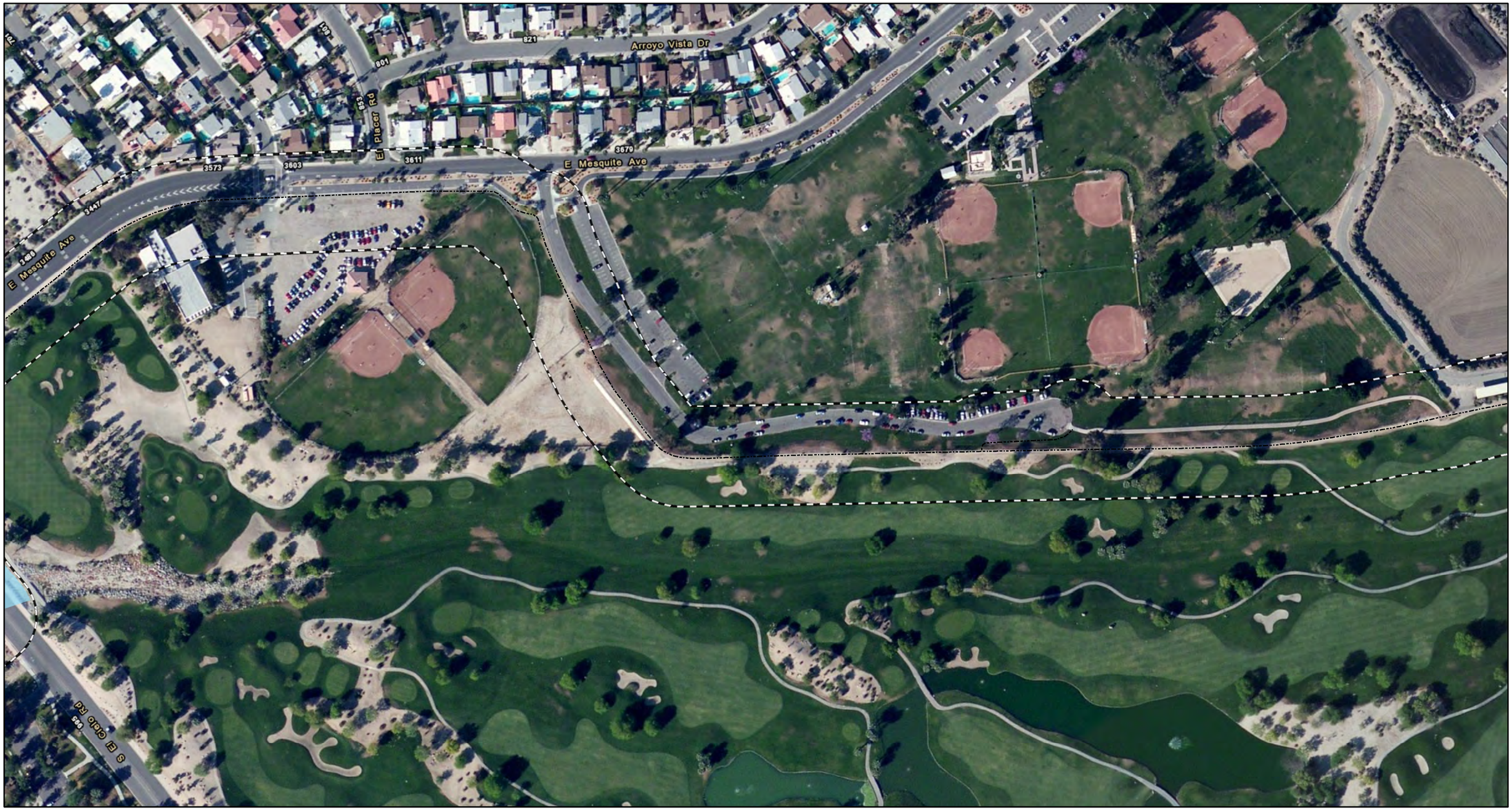

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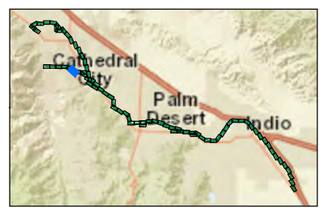

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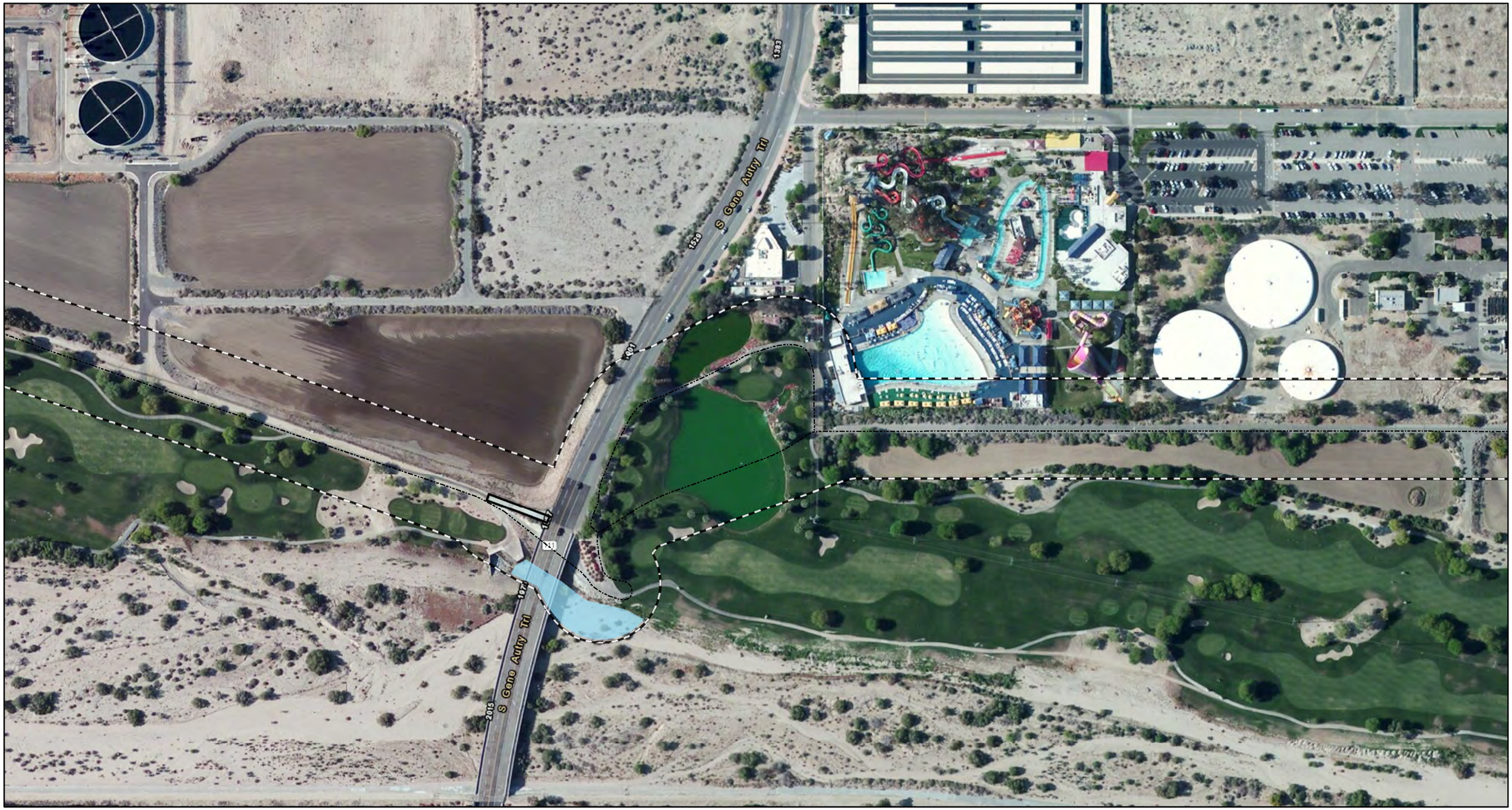

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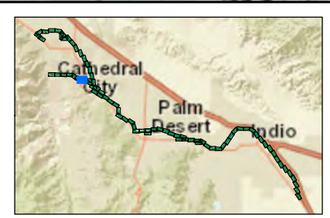

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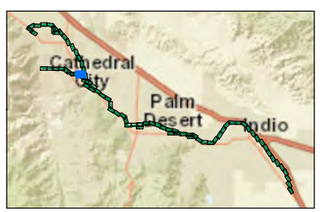

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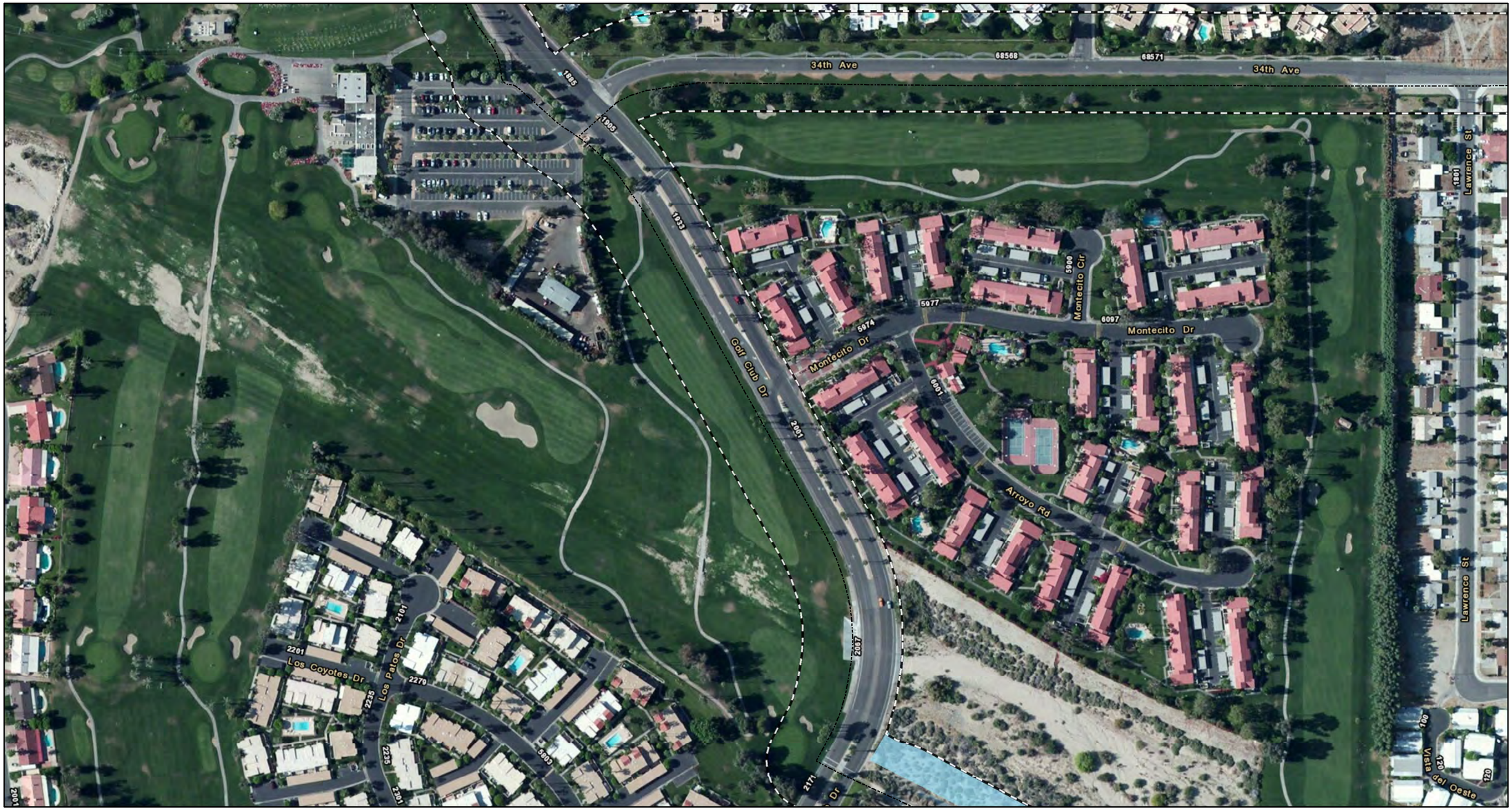

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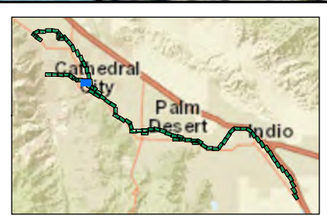

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APPENDIX D

SITE PHOTOGRAPHS

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Photo 1 - View of area adjacent to the Whitewater River where CV Link crosses a tributary.

Photo 2 - View of a wetland area in the Whitewater River where CV Link crosses.

Photo 3 - View of the Whitewater River at Dinah Shore Drive.

Photo 4 - View of an existing golf cart path through the Whitewater River that will be utilized for this project.

Photo 5 - View of an existing golf cart path adjacent to the Whitewater River that will be utilized for this project.

Photo 6 - View of area adjacent to the Whitewater River at Cathedral Canyon Drive.

Photo 7 - View of the Whitewater River at Date Palm Drive .

Photo 8 - View of the Whitewater River where CV Link will cross.

Photo 9 - View of a tributary to the Whitewater River where CV Link will cross.

Photo 10 - View of an existing pathway through the Whitewater River adjacent to Frank Sinatra Drive.

Photo 11 - View of an existing paved pathway through the Whitewater River.

Photo 12 - View of where CV Link will cross under Portola Avenue.

Photo 13 - View of area adjacent to the Whitewater River.

Photo 14 - View of a golf course in the Whitewater River where CV Link will traverse.

Photo 15 - View of a golf course in the Whitewater River where CV Link will traverse.

Photo 16 - View of existing path and bridge that will be utilized for CV Link.

Photo 17 - View of Whitewater River where CV Link will traverse.

Photo 18 – View of the Whitewater River where CV Link will traverse a tributary.

Photo 19 - View of the Whitewater River at Adams Street.

Photo 20 - View of the Whitewater River at Dune Palms Drive.

Photo 21 - View of the Whitewater River at Jefferson Street.

Photo 22 - View of the Whitewater River beneath Miles Avenue.

Photo 23 - View of the Whitewater River at the Indio Boulevard Crossing.

Photo 24 - View of the Whitewater River at the Jackson Street crossing.

Photo 25 - View of the Whitewater River at Golf Center Parkway.

Photo 26 - View of the Whitewater River at the 50th Avenue crossing.

Photo 27 - View of the Whitewater River at the 52nd Avenue crossing.

Photo 28 - View of Tahquitz Creek near South Palm Canyon Drive.

Photo 29 – View of drainage where CV Link will occur along the side.