

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION**

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Clean Water Act Section 401 Water Quality Certification  
and Waste Discharge Requirements  
for Discharge of Dredged and/or Fill Materials

**PROJECT: Live Oak Park Road Bridge**  
**Certification Number R9-2019-0084**  
**WDID: 9000003320**

Reg. Meas.	422411
Place	848739
Party	11763
Person	549370

**APPLICANT: County of San Diego**  
**Department of Public Works**  
**5510 Overland Avenue**  
**Suite 410**  
**San Diego, CA 92123-1237**

**ACTION:**

<input checked="" type="checkbox"/> Order for Low Impact Certification	<input type="checkbox"/> Order for Denial of Certification
<input type="checkbox"/> Order for Technically-conditioned Certification	<input type="checkbox"/> Waiver of Waste Discharge Requirements
<input checked="" type="checkbox"/> Enrollment in SWRCB GWDR Order No. 2003-017-DWQ	<input type="checkbox"/> Enrollment in Isolated Waters Order No. 2004-004-DWQ

**PROJECT DESCRIPTION**

An application dated June 4, 2018, was submitted by the County of San Diego, Department of Public Works (hereinafter, Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (33 U.S.C. § 1341) for the proposed Live Oak Park Road Bridge Project (Project). The Applicant has also applied for a Clean Water Act section 404 permit from the United States Army Corps of Engineers for the Project (USACE File No. SPL-2017-00801-SR).

The project is located at Live Oak Creek, next to and under Live Oak Park Road bridge, two miles west of Interstate 15, in the unincorporated community of Fallbrook, and in north-central San Diego County.

The Applicant is proposing the replacement of the multi-culvert crossing with a new span bridge approximately 58-feet in length and 200-feet of approach, designed to meet current federal bridge seismic and safety requirements, and capable of conveying a 100-year flood event. The proposed bridge would be approximately 35-feet wide to accommodate two 12-foot wide travel lanes, 4-foot wide shoulders, and 1.5-foot trails on either side. Channel grading with buried scour protection (articulating concrete block mats) is required approximately 100-feet upstream and 150-feet downstream of the bridge. Replacement of the three existing corrugated metal culverts with the proposed span bridge would restore the

stream hydrology within the project area and would improve access and safety for roadway users.

Project construction will temporarily impact 0.14-acre (483-linear feet) of Stream channel waters of the United States and/or State. The Applicant reports that the Project purpose cannot be practically accomplished in a manner which would avoid or result in less adverse impacts to aquatic resources considering all potential practicable alternatives, such as the potential for alternate available locations, designs, reductions in size, configuration or density.

The Applicant reports that self-mitigation for the temporary loss of 0.14-acre of jurisdictional waters will be achieved through the onsite restoration (0.14-acre) and re-establishment (0.05-acre) streambed of waters of the United States and/or State. All waters of the United States and/or State receiving temporary discharges of fill material will be restored upon removal of the fill. Mitigation for discharges of fill material to waters of the United States and/or State will be completed by the Applicant onsite, located in the Bonsall hydrologic subarea (HA 903.12), and at a minimum compensation ratio of 1.36:1 (area mitigated:area impacted).

Two infiltration trenches (250 feet total) will installed along the shoulders of Live Oak Park Road to capture and treat runoff. The infiltration trenches are designed and located to accommodate the stormwater treatment volumes from the proposed improvements in accordance with the County's BMP Design Manual.

The Applicant has paid all required fees for this Certification in the amount of \$2388.00. On June 4, 2018, the San Diego Water Board provided public notice of the Project application pursuant to California Code of Regulations, title 23, section 3858 by posting information describing the Project on the San Diego Water Board's web site and providing a period of twenty-one days for public review and comment. No comments were received.

Receiving waters potentially affected by the Project are protected in accordance with water quality standards in the *Water Quality Control Plan for the San Diego Basin (9)* (Basin Plan). This Certification authorizes permanent and temporary impacts to waters of the United States and /or State affected by the Project and requires compensatory mitigation to offset adverse impacts as described in section VI of the Certification. The temporary impacts will be restored by the Applicant to pre-Project conditions and do not include physical loss of aquatic resource area or degradation of ecological conditions. Compensatory mitigation, to offset the permanent loss of jurisdictional waters, will be achieved through the Applicant's onsite mitigation which are required to be protected, monitored and maintained in perpetuity by the County of San Diego pursuant to a recorded conservation or protection easement. Based on all of these considerations, the Applicant's compliance with the terms and conditions of this Certification will ensure that the water quality standards for all waters of the United States and/or State impacted by the Project are met.

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### Attachments:

1. Definitions
2. Project Figures and Plans
3. Mitigation Figures and Table
4. CEQA Mitigation and Monitoring Reporting Program

The San Diego Water Board has independently reviewed the record of the Project to analyze the extent and nature of proposed Project impacts to the water quality and beneficial uses of waters of the United States and/or State and associated compensatory mitigation required to offset impacts attributed to the Project. In accordance with this Certification, the Applicant may proceed with the Project under the following terms and conditions:

## I. STANDARD CONDITIONS

Pursuant to section 3860 of title 23 of the California Code of Regulations, the following three standard conditions apply to all water quality certification actions:

- A. This Certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to section 13330 of the Water Code and chapter 28, article 6 (commencing with title 23, section 3867), of the California Code of Regulations.
- B. This Certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility and requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent Certification application was filed pursuant to California Code of Regulations title 23, section 3855 subdivision (b), and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
- C. This Certification action is conditioned upon total payment of any fee required under title 23, chapter 28 (commencing with section 3830) of California Code of Regulations and owed by the applicant.

## II. GENERAL CONDITIONS

- A. **Term of Certification.** Water Quality Certification No. R9-2018-0011 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 U.S.C. §1344) permit issued by the U.S. Army Corps of Engineers for this Project, or b) five (5) years from the date of issuance of this Certification, whichever occurs first.
- B. **Duty to Comply.** The Applicant must comply with all conditions and requirements of this Certification. Any Certification noncompliance constitutes a violation of the Water Code and is grounds for enforcement action or Certification termination, revocation and reissuance, or modification.
- C. **General Waste Discharge Requirements.** The requirements of this Certification are enforceable through Water Quality Order No. 2003-0017-DWQ, *Statewide General Waste Discharge Requirements for Discharges of Dredged or Fill Material that have Received State Water Quality Certification* (Water Quality Order No. 2003-0017-DWQ). This provision shall apply irrespective of whether a) the federal permit for which

the Certification was obtained is subsequently retracted or is expired, or b) the Certification is expired. Water Quality Order No. 2003-0017-DWQ is accessible at:

[http://www.waterboards.ca.gov/water\\_issues/programs/cwa401/docs/generalorders/gowdr401regulated\\_projects.pdf](http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/generalorders/gowdr401regulated_projects.pdf).

- D. Project Conformance with Application.** All water quality protection measures and BMPs described in the application and supplemental information for water quality certification are incorporated by reference into this Certification as if fully stated herein. Notwithstanding any more specific conditions in this Certification, the Applicant shall construct, implement and comply with all water quality protection measures and BMPs described in the application and supplemental information. The conditions within this Certification shall supersede conflicting provisions within the application and supplemental information submitted as part of this Certification action.
- E. Project Conformance with Water Quality Control Plans or Policies.** Notwithstanding any more specific conditions in this Certification, the Project shall be constructed in a manner consistent with the Basin Plan and any other applicable water quality control plans or policies adopted or approved pursuant to the Porter Cologne Water Quality Act (Division 7, commencing with Water Code Section 13000) or section 303 of the Clean Water Act (33 U.S.C §1313.). The Basin Plan is accessible on-line at:
- [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/index.shtm](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtm)  
!
- F. Project Modification.** The Applicant must submit any changes to the Project, including Project operation, which would have a significant or material effect on the findings, conclusions, or conditions of this Certification, to the San Diego Water for prior review and written approval. If the San Diego Water Board is not notified of a significant change to the Project, it will be considered a violation of this Certification
- G. Certification Distribution Posting.** During Project construction, the Applicant must maintain a copy of this Certification at the Project site. This Certification must be available at all times to site personnel and agencies. A copy of this Certification shall also be provided to any contractor or subcontractor performing construction work, and the copy shall remain in their possession at the Project site.
- H. Inspection and Entry.** The Applicant must allow the San Diego Water Board or the State Water Resources Control Board, and/or their authorized representative(s) (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents as may be required under law, to:
1. Enter upon the Project or Compensatory Mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Certification;
  2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Certification;

3. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Certification; and
4. Sample or monitor, at reasonable times, for the purposes of assuring Certification compliance, or as otherwise authorized by the Clean Water Act or Water Code, any substances or parameters at any location.

I. **Enforcement Notification.** In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.

J. **Certification Actions.** This Certification may be modified, revoked and reissued, or terminated for cause including but not limited to the following:

1. Violation of any term or condition of this Certification;
2. Monitoring results indicate that continued Project activities could violate water quality objectives or impair the beneficial uses of the Live Oak Creek, tributary to the San Luis Rey River;
3. Obtaining this Certification by misrepresentation or failure to disclose fully all relevant facts;
4. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; and
5. Incorporation of any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.

The filing of a request by the Applicant for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Certification condition.

K. **Duty to Provide Information.** The Applicant shall furnish to the San Diego Water Board, within a reasonable time, any information which the San Diego Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Certification or to determine compliance with this Certification.

L. **Property Rights.** This Certification does not convey any property rights of any sort, or any exclusive privilege.

- M. **Petitions.** Any person aggrieved by this action of the San Diego Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with the California Code of Regulations, title 23, sections 3867 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Certification. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: [http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.

### III. **CONSTRUCTON AND POST CONSTRUCTON BEST MANAGEMENT PRACTICES**

- A. **Construction Requirements.** Prior to start of Project construction, the Applicant must, as applicable, obtain coverage under, and comply with, the requirements of State Water Resources Control Board Water Quality Order No. 2009-0009-DWQ, the General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activity (General Construction Storm Water Permit) and any reissuance. If Project construction activities do not require coverage under the General Construction Storm Water Permit, the Applicant must develop and implement a pollution control plan, construction BMP plan, and/or erosion and sediment control plan to prevent the discharge of sediment and other pollutants during construction activities.
- B. **Post Construction Requirements.** The Project must meet all the Post-Construction requirements of the San Diego Water Board Order No. R9-2013-0001, National Pollutant Discharge Elimination Systems Permit and Waste Discharge Requirements for Discharges from the Municipal Separate Storm Sewer Systems (MS4) Draining the Watersheds within the San Diego Region (Regional MS4 Permit).

### IV. **PROJECT IMPACTS AND COMPENSATORY MITIGATION**

- A. **Project Impacts and Compensatory Mitigation.** Unavoidable Project impacts to Live Oak Creek within the San Luis Rey Watershed must not exceed the type and magnitude of impacts described in the table below. At a minimum, compensatory mitigation required to offset unavoidable temporary and permanent Project impacts to waters of the United States and/or State must be achieved as described in the table below:

	Impacts (acres)	Impacts (linear ft.)	Mitigation for Impacts (acres)	Mitigation Ratio (area mitigated :area impacted)	Mitigation for Impacts (linear ft.)	Mitigation Ratio (linear feet mitigated :linear feet impacted)
<b>Temporary Impacts<sup>1</sup></b>						
Stream Channel	0.14	483	0.19 <sup>2</sup>	1.36:1	599 <sup>2</sup>	1.24:1

1. All areas of temporary impacts must be restored to pre-project contours and re-vegetated with native plant species and/or salvaged stream sediment.
2. Removal of the existing bridge culverts and replacement with a span bridge will result in the re-establishment of natural creek bottom of 0.05 acre and 116 linear feet.

**B. Temporary Project Impact Areas.** The Applicant must restore all areas of temporary impacts and all other areas of temporary disturbance which could result in a discharge or a threatened discharge of pollutants to waters of the United States and/or State. Restoration must include grading of disturbed areas to pre-project contours and re-vegetation with native species. The Applicant must implement all necessary BMPs to control erosion and runoff from areas associated with the Project.

**V. MONITORING AND REPORTING REQUIREMENTS**

- A. **Representative Monitoring.** Samples and measurements taken for the purpose of monitoring under this Certification shall be representative of the monitored activity.
- B. **Monitoring Reports.** Monitoring results shall be reported to the San Diego Water Board at the intervals specified in section VI of this Certification.
- C. **Monitoring and Reporting Revisions.** The San Diego Water Board may make revisions to the monitoring program at any time during the term of this Certification and may reduce or increase the number of parameters to be monitored, locations monitored, the frequency of monitoring, or the number and size of samples collected.
- D. **Records of Monitoring Information.** Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurements;
  - b. The individual(s) who performed the sampling or measurements;
  - c. The date(s) analyses were performed;
  - d. The individual(s) who performed the analyses;
  - e. The analytical techniques or methods used; and

- f. The results of such analyses.

## VI. MONITORING AND REPORTING REQUIREMENTS

- E. **Annual Project Progress Reports.** The Applicant must submit annual Project progress reports describing compliance with all requirements of this Certification to the San Diego Water Board prior to **March 1** of each year following the issuance of this Certification, until the Project has reached completion. The report must include the following information:
  1. The names, qualifications, and affiliations of the persons contributing to the report;
  2. The status, progress, and anticipated schedule for completion of Project construction activities;
  3. A description of Project construction delays encountered or anticipated that may affect the schedule for construction completion; and
  4. A description of each incident of noncompliance during the annual monitoring period and its cause, the period of the noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- H. **Final Project Completion Report.** The Applicant must submit a Final Project Completion Report to the San Diego Water Board **within 30 days of completion of the Project**. The final report must include the following information:
  1. Date of construction initiation;
  2. Date of construction completion;
  3. As-built drawings of the Project, no bigger than 11"X17"; and
  4. Photo documentation of implemented post-construction BMPs and all areas of permanent and temporary impacts, prior to and after project construction. Photo documentation must be conducted in accordance with guidelines posted at [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/401\\_certification/docs/401c/401PhotoDocRB9V713.pdf](http://www.waterboards.ca.gov/sandiego/water_issues/programs/401_certification/docs/401c/401PhotoDocRB9V713.pdf). In addition, photo documentation must include Global Positioning System (GPS) coordinates for each of the photo points referenced.
- I. **Reporting Authority.** The submittal of information required under this Certification, or in response to a suspected violation of any condition of this Certification, is required pursuant to Water Code section 13267 and 13383. Civil liability may be administratively imposed by the San Diego Water Board for failure to submit information pursuant to Water Code sections 13268 or 13385.

- J. Electronic Document Submittal.** The Applicant must submit all reports and information required under this Certification in electronic format via e-mail to [SanDiego@waterboards.ca.gov](mailto:SanDiego@waterboards.ca.gov). Documents over 50 megabytes will not be accepted via e-mail and must be placed on a disc and delivered to:

California Regional Water Quality Control Board  
San Diego Region  
Attn: 401 Certification No. R9-2019-0084:843470:MP  
2375 Northside Drive, Suite 100  
San Diego, California 92108

Each electronic document must be submitted as a single file, in Portable Document Format (PDF), and converted to text searchable format using Optical Character Recognition (OCR). All electronic documents must include scanned copies of all signature pages; electronic signatures will not be accepted. Electronic documents submitted to the San Diego Water Board must include the following identification numbers in the header or subject line: Certification No. R9-2019-0084:843470:MP.

- K. Document Signatory Requirements.** All applications, reports, or information submitted to the San Diego Water Board must be signed as follows:

1. For a corporation, by a responsible corporate officer of at least the level of vice president.
2. For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
3. For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.
4. A duly authorized representative may sign applications, reports, or information if:
  - a. The authorization is made in writing by a person described above.
  - b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
  - c. The written authorization is submitted to the San Diego Water Board Executive Officer.

If such authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the Project, a new authorization satisfying the above requirements must be submitted to the San Diego Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative.

- L. Document Certification Requirements.** All applications, reports, or information submitted to the San Diego Water Board must be certified as follows:

*"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."*

## VII. NOTIFICATION REQUIREMENTS

- A. **Twenty Four Hour Non-Compliance Reporting.** The Applicant shall report any noncompliance which may endanger health or the environment. Any such information shall be provided orally to the San Diego Water Board within **24 hours** from the time the Applicant becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Applicant becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The San Diego Water Board, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- B. **Anticipated Noncompliance.** The Applicant shall give advance notice to the San Diego Water Board of any planned changes in the Project or the Compensatory Mitigation project which may result in noncompliance with Certification conditions or requirements.
- C. **Transfers.** This Certification is not transferable in its entirety or in part to any person or organization except after notice to the San Diego Water Board in accordance with the following terms:
1. **Transfer of Property Ownership:** The Applicant must notify the San Diego Water Board of any change in ownership of the Project area. Notification of change in ownership must include, but not be limited to, a statement that the Applicant has provided the purchaser with a copy of the Section 401 Water Quality Certification and that the purchaser understands and accepts the certification requirements and the obligation to implement them or be subject to liability for failure to do so; the seller and purchaser must sign and date the notification and provide such notification to the San Diego Water Board **within 10 days of the transfer of ownership.**
  2. **Transfer of Mitigation Responsibility:** Any notification of transfer of responsibilities to satisfy the mitigation requirements set forth in this Certification must include a signed statement from an authorized representative of the new party (transferee) demonstrating acceptance and understanding of the responsibility to comply with and fully satisfy the mitigation conditions and agreement that failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the San Diego Water Board under Water Code section 13385, subdivision (a). Notification of transfer of responsibilities meeting the above

conditions must be provided to the San Diego Water Board **within 10 days of the transfer date.**

3. **Transfer of Post-Construction BMP Maintenance Responsibility:** The Applicant assumes responsibility for the inspection and maintenance of all post-construction structural BMPs until such responsibility is legally transferred to another entity. At the time maintenance responsibility for post-construction BMPs is legally transferred the Applicant must submit to the San Diego Water Board a copy of such documentation and must provide the transferee with a copy of a long-term BMP maintenance plan that complies with manufacturer specifications. The Applicant must provide such notification to the San Diego Water Board **within 10 days** of the transfer of BMP maintenance responsibility.

Upon properly noticed transfers of responsibility, the transferee assumes responsibility for compliance with this Certification and references in this Certification to the Applicant will be interpreted to refer to the transferee as appropriate. Transfer of responsibility does not necessarily relieve the Applicant of this Certification in the event that a transferee fails to comply.

- D. **Discharge Commencement.** The Applicant must notify the San Diego Water Board in writing **at least 5 days prior** to the start of Project construction.

## **VIII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE**

- A. The County of San Diego is the Lead Agency under the California Environmental Quality Act (CEQA) (Public Resources Code section 21000, et seq.) section 21067, and CEQA Guidelines (California Code of Regulations, title 14, section 15000 et seq.) section 15367, and has adopted a Mitigated Negative Declaration (MND) dated December 22, 2017 for the Live Oak Park Road Bridge project (State Clearing House Number 2017121061). The Lead Agency has determined the Project will have a significant effect on the environment and mitigation measures were made a condition of the Project.
- B. The San Diego Water Board is a Responsible Agency under CEQA (Public Resources Code section 21069; CEQA Guidelines section 15381). The San Diego Water Board has considered the Lead Agency's MND and finds that the Project as proposed will have a significant effect on resources within the San Diego Water Board's purview.
- C. The San Diego Water Board has required mitigation measures as a condition of this Certification to avoid or reduce the environmental effects of the Project to resources within the Board's purview to a less than significant level.
- D. As a Responsible Agency under CEQA, the San Diego Water Board will file a Notice of Determination in accordance with CEQA Guidelines section 15096 subdivision(i).

## **IX. SAN DIEGO WATER BOARD CONTACT PERSON**

Mike Porter, Engineering Geologist  
California Regional Water Quality Control Board, San Diego Region  
2375 Northside Drive, Suite 100

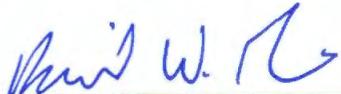
San Diego, California 92108  
Telephone: 619-521-3967  
Email: [Mike.Porter@waterboards.ca.gov](mailto:Mike.Porter@waterboards.ca.gov)

## X. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **Live Oak Park Road Bridge** (Certification No. R9-2019-0084) will comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plans"), 306 ("National Standards of Performance"), and 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Board Order No. 2003-0017-DWQ, "*Statewide General Waste Discharge Requirements for Dredged or Fill Discharges that have Received State Water Quality Certification (General WDRs)*," which requires compliance with all conditions of this Water Quality Certification. Please note that enrollment under Order No. 2003-017-DWQ is conditional and, should new information come to our attention that indicates a water quality problem, the San Diego Water Board may issue individual waste discharge requirements at that time.

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited to, and all proposed mitigation being completed in strict compliance with, the applicants' Project description and/or the description in this Certification, and (b) compliance with all applicable requirements of the Basin Plan.

I, David W. Gibson, Executive Officer, do hereby certify the forgoing is a full, true, and correct copy of Certification No. R9-2019-0084 issued on May 23, 2019.

  
\_\_\_\_\_  
DAVID W. GIBSON  
Executive Officer  
San Diego Water Board

23 May 2019  
Date

# ATTACHMENT 1

## DEFINITIONS

**Activity** - when used in reference to a permit means any action, undertaking, or project including, but not limited to, construction, operation, maintenance, repair, modification, and restoration which may result in any discharge to waters of the state.

**Buffer** - means an upland, wetland, and/or riparian area that protects and/or enhances aquatic resource functions associated with wetlands, rivers, streams, lakes, marine, and estuarine systems from disturbances associated with adjacent land uses.

**California Rapid Assessment Method (CRAM)** - is a wetland assessment method intended to provide a rapid, scientifically-defensible and repeatable assessment methodology to monitor status and trends in the conditions of wetlands for applications throughout the state. It can also be used to assess the performance of compensatory mitigation projects and restoration projects. CRAM provides an assessment of overall ecological condition in terms of four attributes: landscape context and buffer, hydrology, physical structure and biotic structure. CRAM also includes an assessment of key stressors that may be affecting wetland condition and a "field to PC" data management tool (eCRAM) to ensure consistency and quality of data produced with the method.

**Compensatory Mitigation Project** - means compensatory mitigation implemented by the Applicant as a requirement of this Certification (i.e., applicant -responsible mitigation), or by a mitigation bank or an in-lieu fee program.

**Discharge of dredged material** – means any addition of dredged material into, including redeposit of dredged material other than incidental fallback within, the waters of the United States and/or State.

**Discharge of fill material** – means the addition of fill material into waters of the United States and/or State.

**Dredged material** – means material that is excavated or dredged from waters of the United States and/or State.

**Ecological Success Performance Standards** – means observable or measurable physical (including hydrological), chemical, and/or biological attributes that are used to determine if a compensatory mitigation project meets its objectives.

**Enhancement** – means the manipulation of the physical, chemical, or biological characteristics of an aquatic resource to improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

**Establishment** – means the manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist. Creation results in a gain in aquatic resource area.

**Fill material** – means any material used for the primary purpose of replacing an aquatic area with dry land or of changing the bottom elevation of a water body.

**Isolated wetland** – means a wetland with no surface water connection to other aquatic resources.

**Mitigation Bank** – means a site, or suite of sites, where resources (e.g., wetlands, streams, riparian areas) are restored, established, enhanced, and/or preserved for the purpose of providing mitigation for impacts authorized by this Certification.

**Preservation** - means the removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

**Re-establishment** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/ historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

**Rehabilitation** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/ historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

**Restoration** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

**Start of Project Construction** - For the purpose of this Certification, "start of Project construction" means to engage in a program of on-site construction, including site clearing, grading, dredging, landfilling, changing equipment, substituting equipment, or even moving the location of equipment specifically designed for a stationary source in preparation for the fabrication, erection or installation of the building components of the stationary source within waters of the United States and/or State.

**Uplands** - means non-wetland areas that lack any field-based indicators of wetlands or other aquatic conditions. Uplands are generally well-drained and occur above (i.e., up-slope) from nearby aquatic areas. Wetlands can, however, be entirely surrounded by uplands. For example, some natural seeps and constructed stock ponds lack aboveground hydrological connection to other aquatic areas. In the watershed context, uplands comprise the landscape matrix in which aquatic areas form. They are the primary sources of sediment, surface runoff, and associated chemicals that are deposited in aquatic areas or transported through them.

**Water quality objectives and other appropriate requirements of state law** – means the water quality objectives and beneficial uses as specified in the appropriate water quality control plan(s); the applicable provisions of sections 301, 302, 303, 306, and 307 of the Clean Water Act; and any other appropriate requirement of state law.

County of San Diego DPW  
Live Oak Park Road Bridge Project  
Certification No. R9-2019-0084

**ATTACHMENT 2  
PROJECT LOCATION MAPS**

Figure 1 – Regional Location Live Oak Park Road Bridge (57C-0709)  
Replacement Project

Figure 2 – Project Vicinity Live Oak Park Road Bridge (57C-0709) Replacement  
Project



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**Figure 1**

**Regional Location**

**Live Oak Park Road Bridge (57C-0709) Replacement Project**



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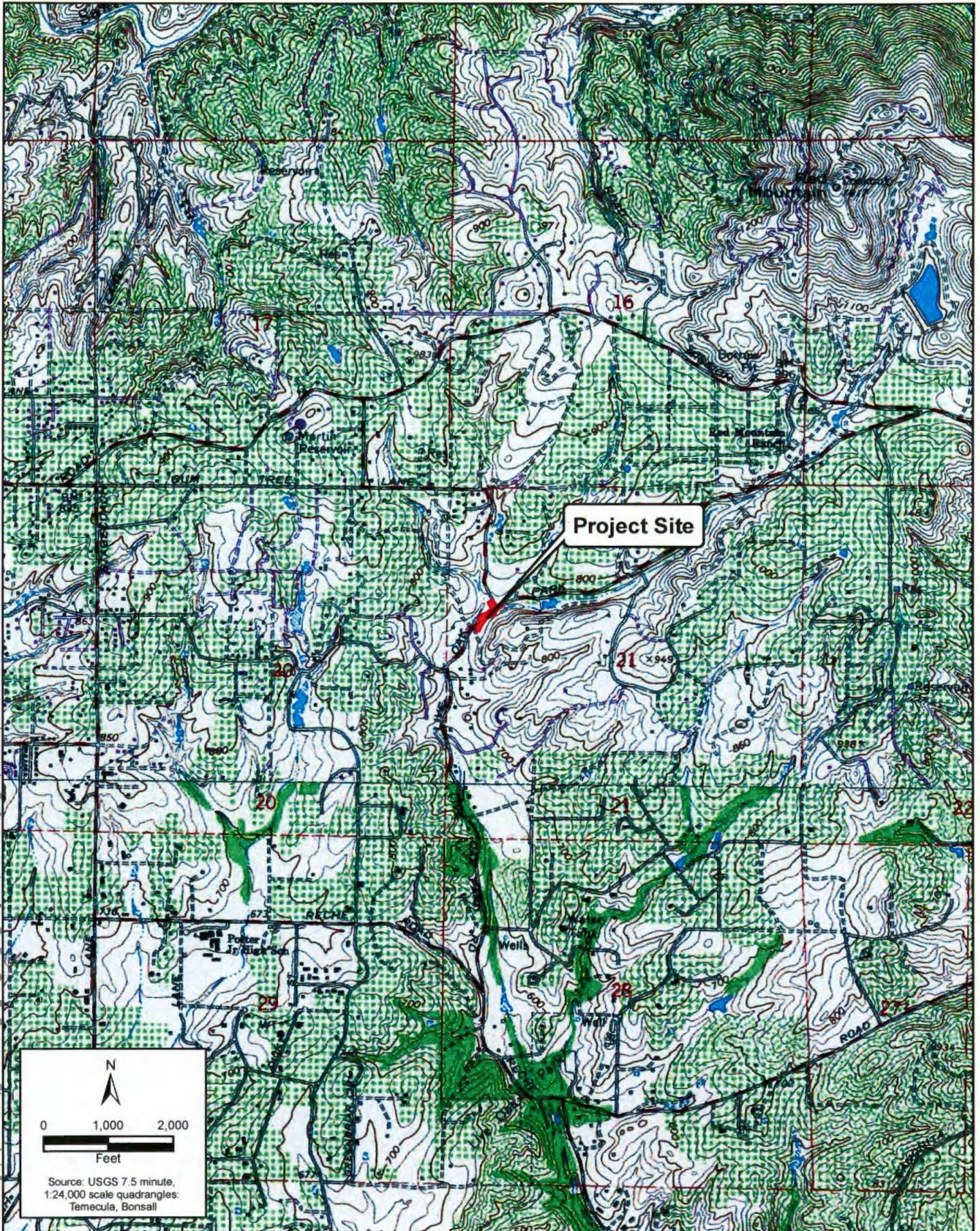


Figure 2  
Project Vicinity  
Live Oak Park Road Bridge (57C-0709) Replacement Project



**ATTACHMENT 3  
PROJECT FIGURES**

Figure 4 – Impact Plan

Figure 5 – Vegetation Impacts

Figure 7 – USACE/RWQCB Jurisdictional Areas

Figure 9 – USACE/RWQCB Impacts

Figure 11 – USACE/RWQCB Mitigation

-  Project Impact Area (PIA)
- Permanent Impacts**
-  Roadway/Retaining Wall/Abutments
- Temporary Impacts**
-  Staging Area
-  Buried Rip-Rap or Articulating Concrete Blocks
-  Daylight (clear, recontour, revegetate)
-  Temporary Impact Area (clear, recontour, revegetate)



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Source: Aerial (SanGIS, 2017)

**Project Impact Area (PIA)**

**Permanent Impacts**

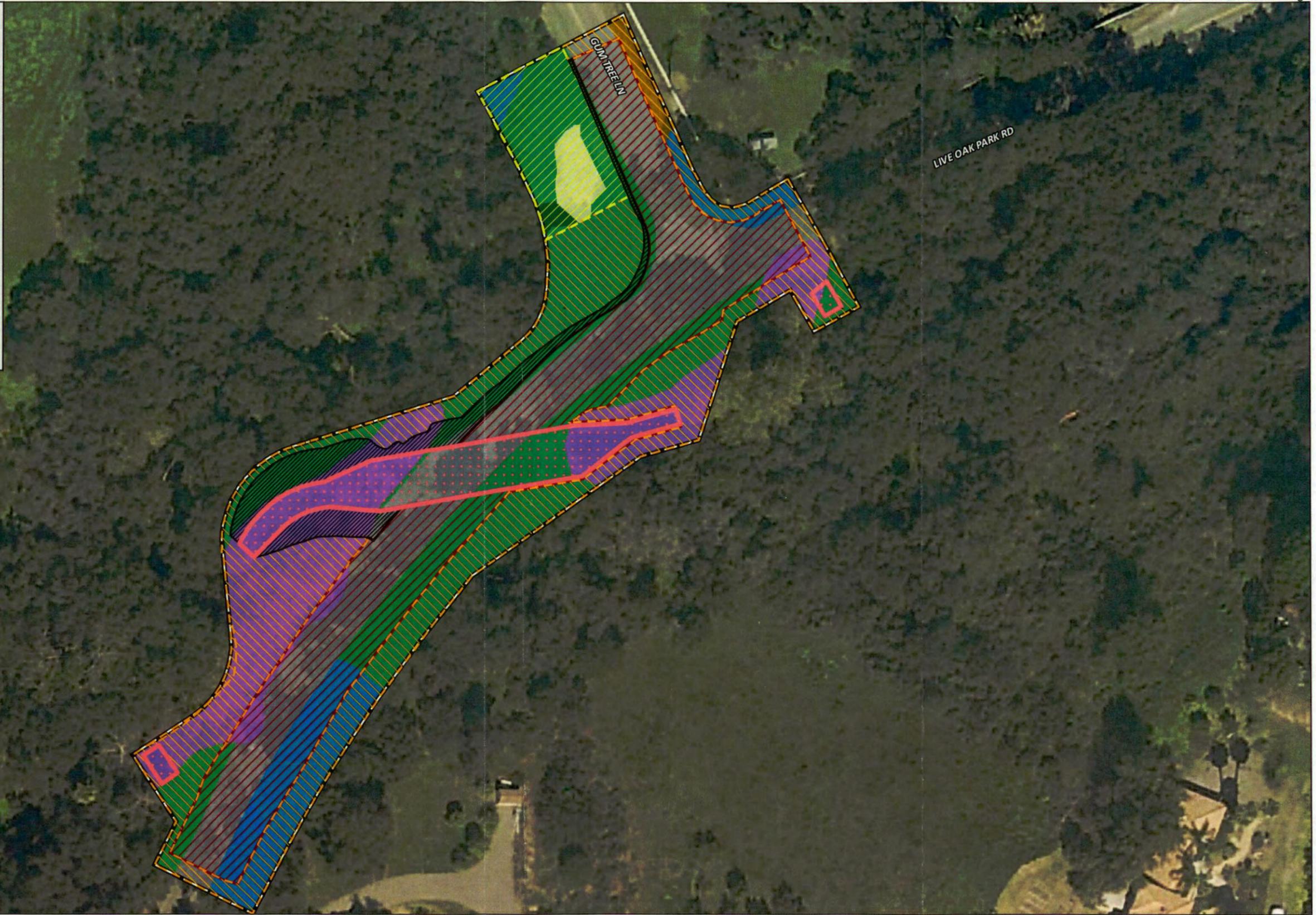
- Roadway/Retaining Wall/Abutments

**Temporary Impacts**

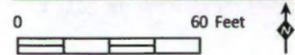
- Staging Area
- Buried Rip-Rap or Articulating Concrete Blocks
- Daylight (clear, recontour, revegetate)
- Temporary Impact Area (clear, recontour, revegetate)

**Vegetation Communities**

- Southern Riparian Forest
- Coast Live Oak Woodland
- Open Coast Live Oak Woodland
- Disturbed Coast Live Oak Woodland
- Non-native Grassland
- Disturbed Habitat
- Developed



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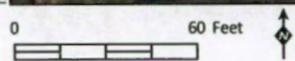


Source: Aerial (SanGIS, 2017), Vegetation (ICF)

 Project Impact Area (PIA)  
**Jurisdictional Waters**  
 USACE/RWQCB Non-Wetland Waters of the U.S./State (0.14 acres - 483 feet)



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Source: Aerial (SanGIS 2017)

 Project Impact Area (PIA)

**Jurisdictional Waters**

-  USACE/RWQCB Non-Wetland Waters of the U.S./State (Temporary Impacts 0.14 acres)
-  USACE/RWQCB Non-Wetland Waters of the U.S./State (Temporary: 483 Feet)

**Permanent Impacts**

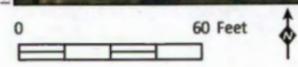
-  Roadway/Retaining Wall/Abutments

**Temporary Impacts**

-  Staging Area
-  Buried Rip-Rap or Articulating Concrete Blocks
-  Daylight (clear, recontour, revegetate)
-  Temporary Impact Area (clear, recontour, revegetate)

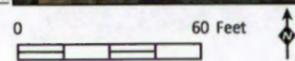
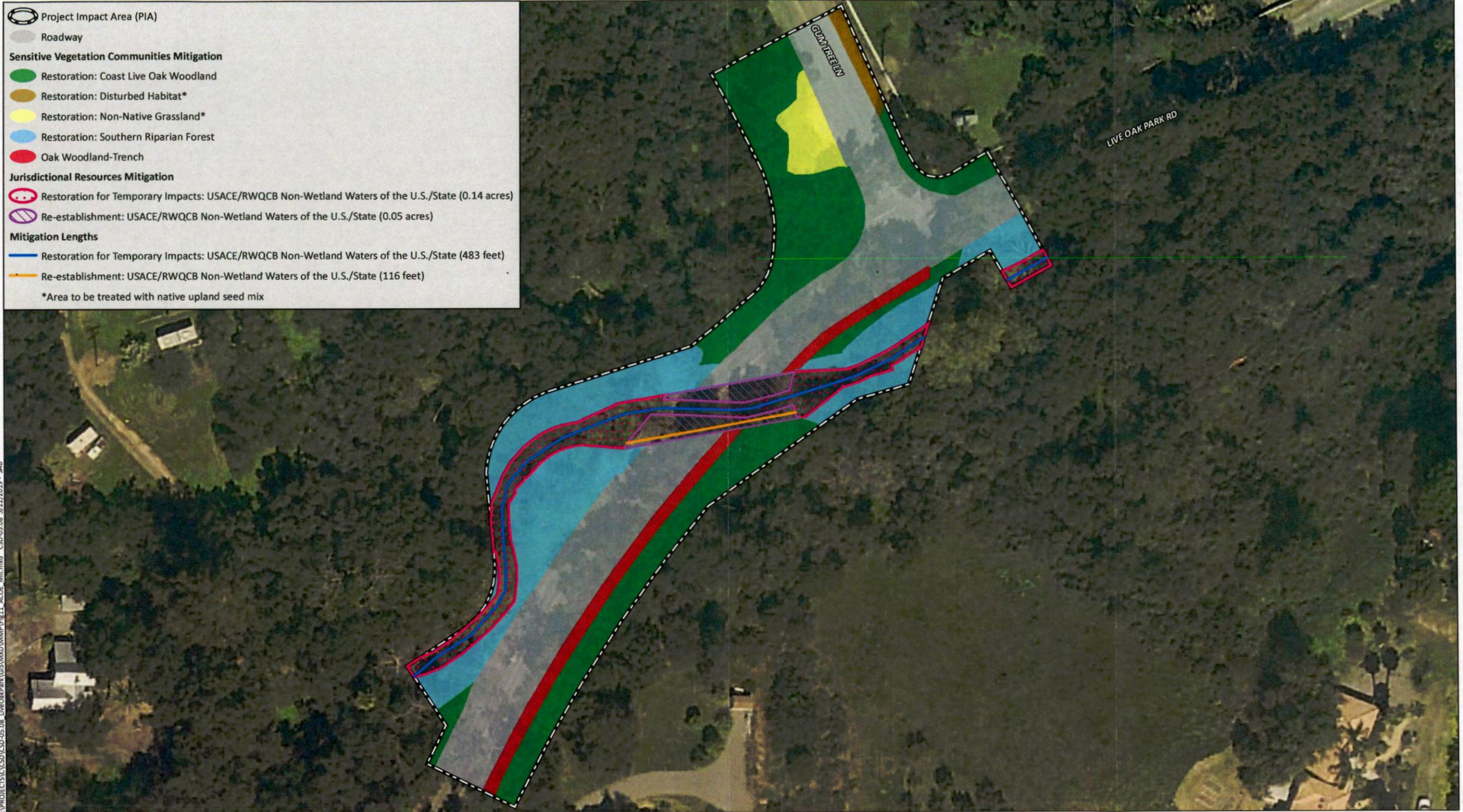


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Source: Aerial (SanGIS 2017)

 Project Impact Area (PIA)  
 Roadway  
**Sensitive Vegetation Communities Mitigation**  
 Restoration: Coast Live Oak Woodland  
 Restoration: Disturbed Habitat\*  
 Restoration: Non-Native Grassland\*  
 Restoration: Southern Riparian Forest  
 Oak Woodland-Trench  
**Jurisdictional Resources Mitigation**  
 Restoration for Temporary Impacts: USACE/RWQCB Non-Wetland Waters of the U.S./State (0.14 acres)  
 Re-establishment: USACE/RWQCB Non-Wetland Waters of the U.S./State (0.05 acres)  
**Mitigation Lengths**  
 Restoration for Temporary Impacts: USACE/RWQCB Non-Wetland Waters of the U.S./State (483 feet)  
 Re-establishment: USACE/RWQCB Non-Wetland Waters of the U.S./State (116 feet)  
 \*Area to be treated with native upland seed mix



Source: Aerial (SanGIS, 2017)

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County of San Diego DPW  
Live Oak Park Road Bridge Project  
Certification No. R9-2019-0084

**ATTACHMENT 4  
CONSTRUCTION PLANS**

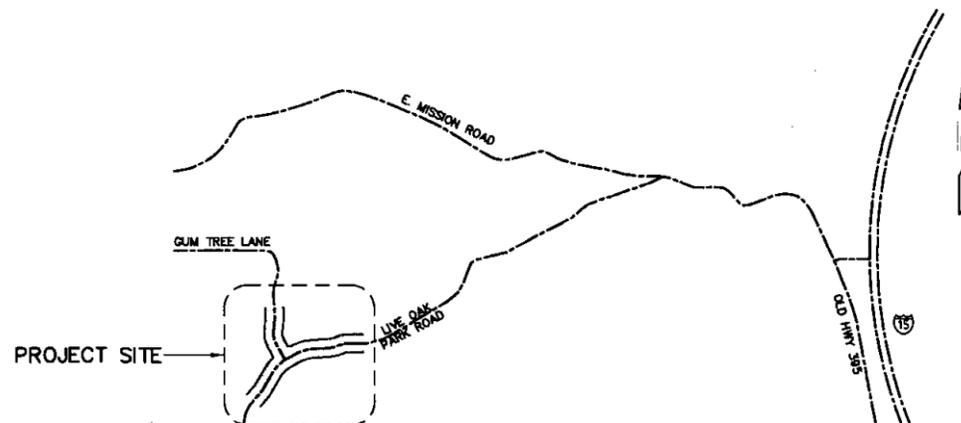
Live Oak Park Road Bridge Over San Luis Rey River Tributary –  
Sheet 01 of 29  
Sheet 03 of 29  
Sheet 05 of 29  
Sheet 15 of 29  
Sheet 18 of 29  
Sheet 19 of 29  
Sheet 21 of 29

COUNTY OF SAN DIEGO, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS

PLANS FOR  
CONSTRUCTION OF  
LIVE OAK PARK ROAD  
BRIDGE REPLACEMENT  
In the Vicinity of: FALLBROOK  
Net Length: 510 FT

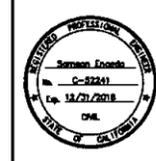
INDEX OF SHEETS

- No. Description
- 1. TITLE SHEET
- 2. GENERAL NOTES AND REFERENCES
- 3. PROJECT IMPACT AREA PLAN
- 4. WATER POLLUTION CONTROL DETAILS
- 5. WATER POLLUTION CONTROL PLAN
- 6. TYPICAL SECTIONS
- 7. PLAN AND PROFILE
- 8. TRAFFIC CONTROL PLAN
- 9. RIGHT OF WAY PLAN
- 10. CHANNEL GRADING PLAN
- 11. RETAINING WALL NO. 1
- 12. RETAINING WALL NO. 2
- 13. RETAINING WALL NO. 3 AND 4
- 14. SOLDIER PILE SCHEDULES
- 15. SOLDIER PILE RETAINING WALL 01
- 16. SOLDIER PILE RETAINING WALL 02
- 17. SOLDIER PILE RETAINING WALLS 03 AND 04
- 18. CULVERT LAYOUT
- 19. GENERAL PLAN
- 20. DECK CONTOURS
- 21. FOUNDATION PLAN
- 22. ABUTMENT 1 LAYOUT
- 23. ABUTMENT 2 LAYOUT
- 24. ABUTMENT DETAILS No. 1
- 25. ABUTMENT DETAILS No. 2
- 26. ABUTMENT DETAILS No. 3
- 27. TYPICAL SECTION
- 28. LONGITUDINAL SECTION
- 29. LOG OF TEST BORINGS 1



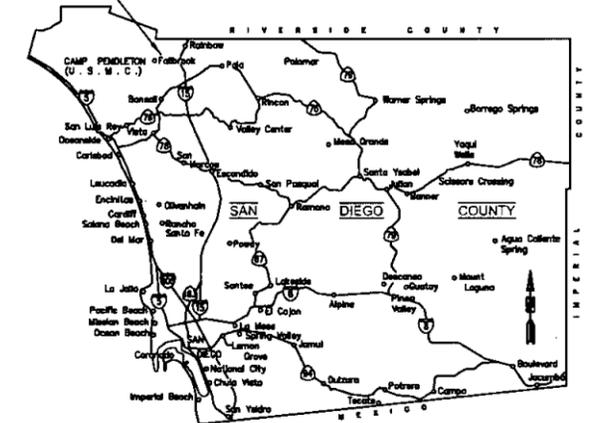
VICINITY MAP  
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PLANS	BY	DATE
DESIGNED		
CHECKED		
REGISTERED CIVIL ENGINEER		DATE

PROJECT LOCATION



70% SUBMITTAL - NOT FOR CONSTRUCTION

UTILITY ALERT NOTE:

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND UTILITY FACILITIES NOT KNOWN OR IN A LOCATION DIFFERENT FROM THAT WHICH IS SHOWN ON THE PLANS OR IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO PERFORMING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE. FORTY-EIGHT HOURS BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND FACILITIES BY CONTACTING UNDERGROUND SERVICE ALERT AT TELEPHONE 1-800-422-4133.

THE CONTRACTOR MUST ALSO INDIVIDUALLY CONTACT OPERATORS OF GRAVITY SEWER SYSTEMS AND CERTAIN OTHER UTILITIES, WHO ARE NOT MEMBERS OF UNDERGROUND SERVICE ALERT.

REVIEWED BY: \_\_\_\_\_ DATE \_\_\_\_\_ COUNTY OF SAN DIEGO DPW DESIGN SECTION

**COUNTY OF SAN DIEGO**  
**DEPARTMENT OF PUBLIC WORKS**  
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



RECOMMENDED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
William Morgan, County Engineer

REVISIONS	BY	APPROVED	DATE

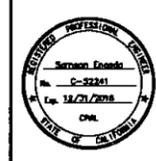
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FIELD REVISIONS	

LIVE OAK PARK ROAD BRIDGE OVER  
SAN LUIS REY RIVER TRIBUTARY  
TITLE SHEET

SCALE HOR.	NONE	VERT.	NONE
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SHEET 01 OF 29 SHEETS			

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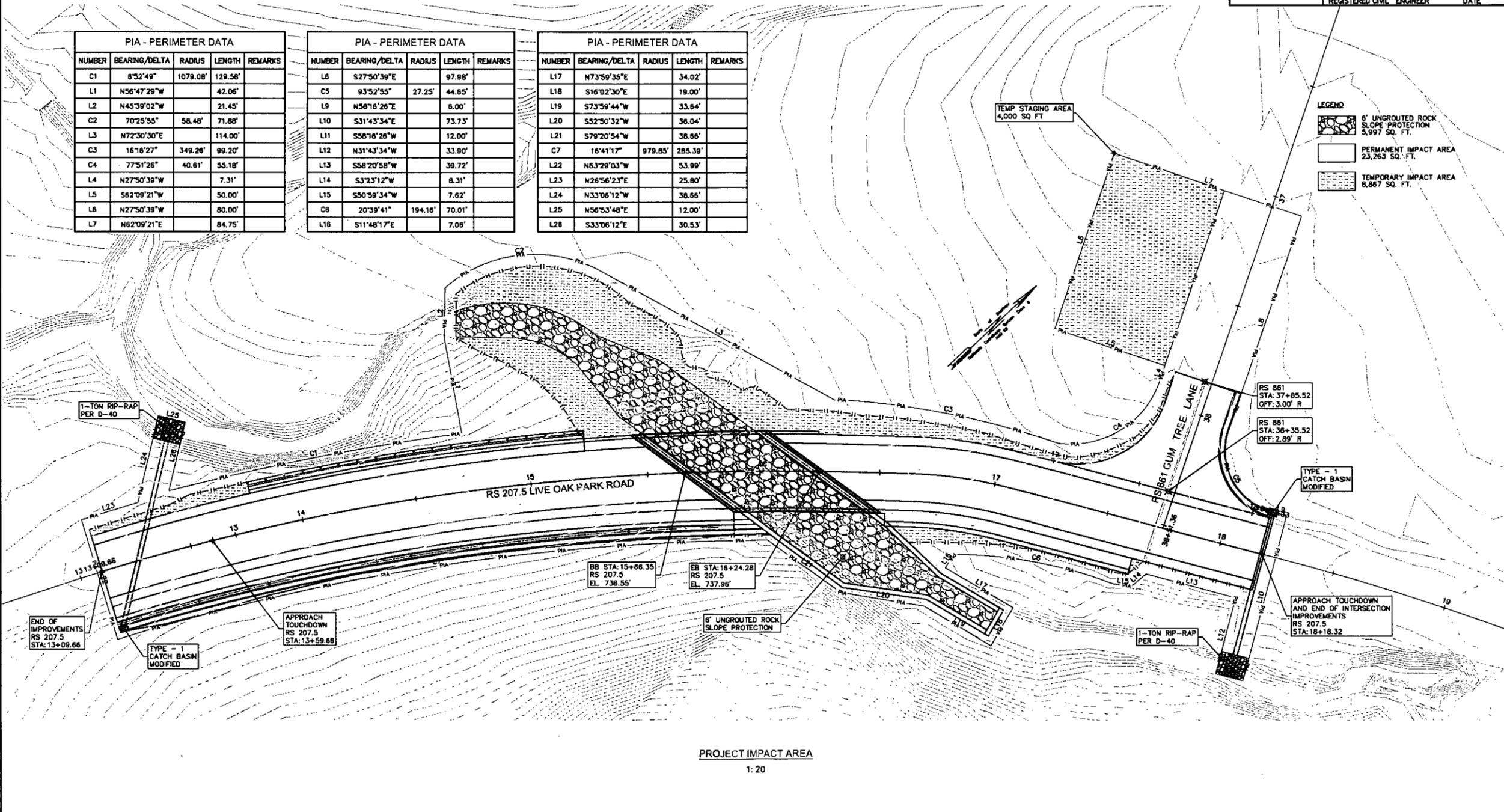
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NUMBER	BEARING/DELTA	RADIUS	LENGTH	REMARKS
C1	S32°49'	1079.08'	129.58'	
L1	N56°47'29"W		42.06'	
L2	N43°39'02"W		21.45'	
C2	70°25'35"	58.48'	71.88'	
L3	N72°30'30"E		114.00'	
C3	16°16'27"	349.26'	99.20'	
C4	77°51'26"	40.61'	55.18'	
L4	N27°50'39"W		7.31'	
L5	S62°09'21"W		50.00'	
L6	N27°50'39"W		80.00'	
L7	N62°09'21"E		84.75'	

PIA - PERIMETER DATA				
NUMBER	BEARING/DELTA	RADIUS	LENGTH	REMARKS
L8	S27°50'39"E		97.98'	
C5	93°52'55"	27.25'	44.85'	
L9	N58°18'26"E		8.00'	
L10	S31°43'34"E		73.73'	
L11	S58°16'26"W		12.00'	
L12	N31°43'34"W		33.90'	
L13	S58°20'58"W		39.72'	
L14	S3°23'12"W		8.31'	
L15	S50°39'34"W		7.62'	
C6	20°39'41"	194.18'	70.01'	
L16	S11°48'17"E		7.08'	

PIA - PERIMETER DATA				
NUMBER	BEARING/DELTA	RADIUS	LENGTH	REMARKS
L17	N73°59'35"E		34.02'	
L18	S16°02'30"E		19.00'	
L19	S73°59'44"W		33.64'	
L20	S52°50'32"W		36.04'	
L21	S79°20'54"W		38.66'	
C7	16°41'17"	979.85'	285.39'	
L22	N63°29'03"W		53.99'	
L23	N26°56'23"E		25.80'	
L24	N33°06'12"W		38.66'	
L25	N56°53'48"E		12.00'	
L26	S33°06'12"E		30.53'	

LEGEND

	6' UNGROUTED ROCK SLOPE PROTECTION 3,997 SQ. FT.
	PERMANENT IMPACT AREA 23,263 SQ. FT.
	TEMPORARY IMPACT AREA 8,867 SQ. FT.



PROJECT IMPACT AREA  
1:20

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**COUNTY OF SAN DIEGO**  
**DEPARTMENT OF PUBLIC WORKS**  
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



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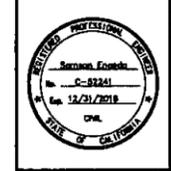
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LIVE OAK PARK ROAD BRIDGE OVER  
SAN LUIS REY RIVER TRIBUTARY  
PROJECT IMPACT AREA PLAN

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SHEET 03 OF 29 SHEETS	

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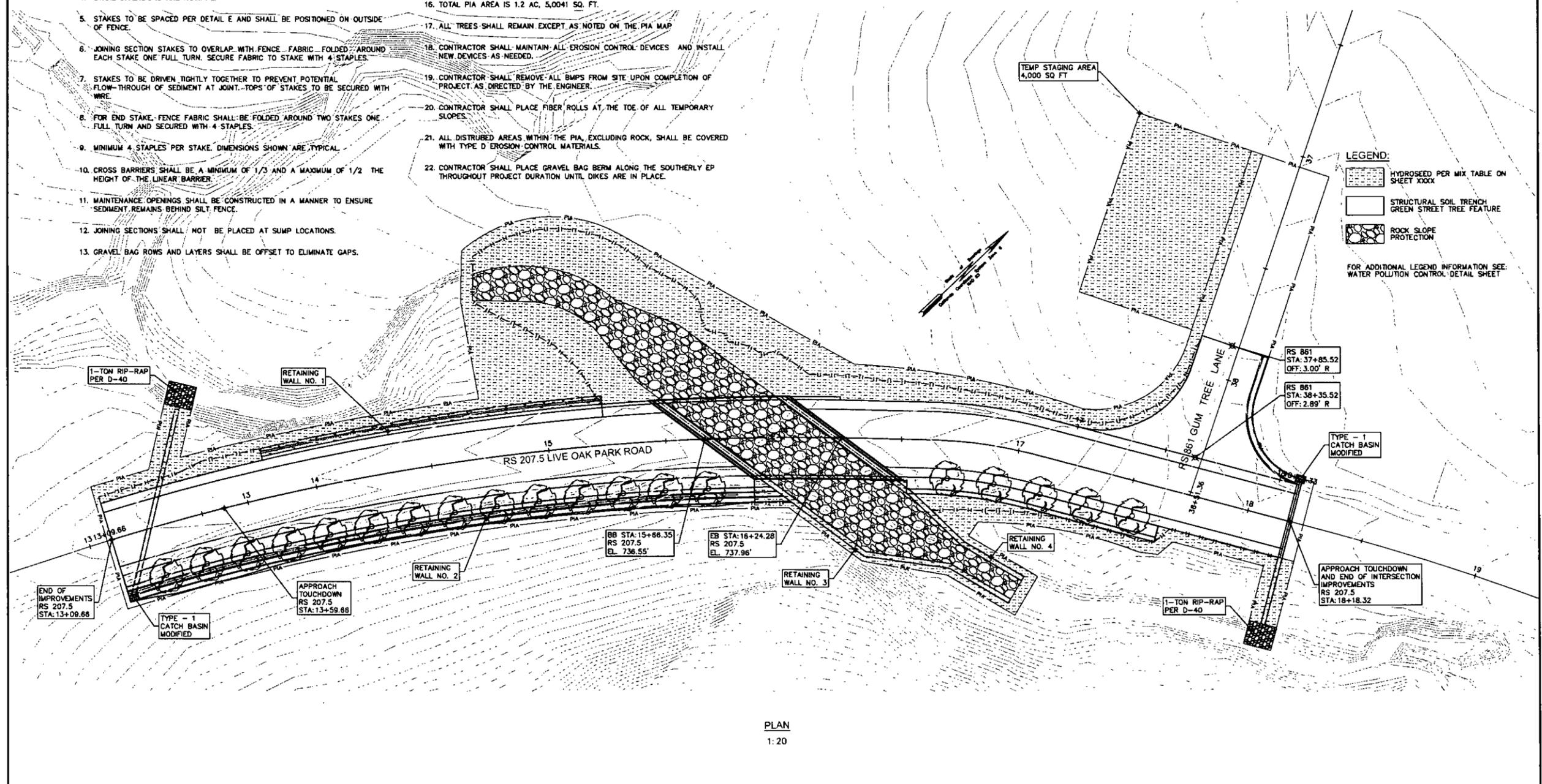
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REGISTERED CIVIL ENGINEER		DATE

**NOTES:**

- INSTALL SILT FENCE AT PIA LINE
- WHERE SILT FENCE CROSSES BEDROCK, OMIT LATH STAKES AND INSTALL GRAVEL BAGS 2 LEVELS HIGH WITH SILT FENCE SECURED UNDER BOTTOM BAG.
- ADDITIONAL GRAVEL BAGS MAY BE NECESSARY TO CONTAIN CREEK FLOWS.
- STAKE DIMENSIONS ARE NOMINAL.
- STAKES TO BE SPACED PER DETAIL E AND SHALL BE POSITIONED ON OUTSIDE OF FENCE.
- JOINING SECTION STAKES TO OVERLAP WITH FENCE FABRIC FOLDED AROUND EACH STAKE ONE FULL TURN. SECURE FABRIC TO STAKE WITH 4 STAPLES.
- STAKES TO BE DRIVEN TIGHTLY TOGETHER TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT JOINT. TOPS OF STAKES TO BE SECURED WITH WIRE.
- FOR END STAKE, FENCE FABRIC SHALL BE FOLDED AROUND TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
- MINIMUM 4 STAPLES PER STAKE. DIMENSIONS SHOWN ARE TYPICAL.
- CROSS BARRIERS SHALL BE A MINIMUM OF 1/3 AND A MAXIMUM OF 1/2 THE HEIGHT OF THE LINEAR BARRIER.
- MAINTENANCE OPENINGS SHALL BE CONSTRUCTED IN A MANNER TO ENSURE SEDIMENT REMAINS BEHIND SILT FENCE.
- JOINING SECTIONS SHALL NOT BE PLACED AT SUMP LOCATIONS.
- GRAVEL BAG ROWS AND LAYERS SHALL BE OFFSET TO ELIMINATE GAPS.
- NO WORK HAVING POTENTIAL TO CAUSE WATER POLLUTION AS DETERMINED BY THE ENGINEER, SHALL BE PERFORMED UNTIL THE WATER POLLUTION CONTROL PLAN (WPCP) HAS BEEN APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONSIDER OTHER CONTROL MEASURES, AS NECESSARY, TO SUPPLEMENT THE TEMPORARY CONTROL MEASURES SHOWN ON THESE PLANS, IN ORDER TO MEET THE WATER POLLUTION CONTROL OBJECTIVES.
- TOTAL PIA AREA IS 1.2 AC, 5,0041 SQ. FT.
- ALL TREES SHALL REMAIN EXCEPT AS NOTED ON THE PIA MAP.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AND INSTALL NEW DEVICES AS NEEDED.
- CONTRACTOR SHALL REMOVE ALL BMPs FROM SITE UPON COMPLETION OF PROJECT AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL PLACE FIBER ROLLS AT THE TOE OF ALL TEMPORARY SLOPES.
- ALL DISTURBED AREAS WITHIN THE PIA, EXCLUDING ROCK, SHALL BE COVERED WITH TYPE D EROSION CONTROL MATERIALS.
- CONTRACTOR SHALL PLACE GRAVEL BAG BERM ALONG THE SOUTHERLY EP THROUGHOUT PROJECT DURATION UNTIL DIKES ARE IN PLACE.



**LEGEND:**

- HYDROSEED PER MIX TABLE ON SHEET XXXX
- STRUCTURAL SOIL TRENCH GREEN STREET TREE FEATURE
- ROCK SLOPE PROTECTION

FOR ADDITIONAL LEGEND INFORMATION SEE WATER POLLUTION CONTROL DETAIL SHEET

PLAN  
1:20

**COUNTY OF SAN DIEGO**  
**DEPARTMENT OF PUBLIC WORKS**  
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



REVISIONS	BY	APPROVED	DATE

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FIELD REVISIONS	

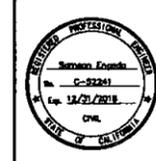
LIVE OAK PARK ROAD BRIDGE OVER  
SAN LUIS REY RIVER TRIBUTARY  
WATER POLLUTION CONTROL PLAN

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SHEET 05 OF 29 SHEETS	

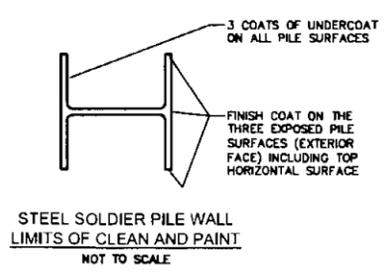
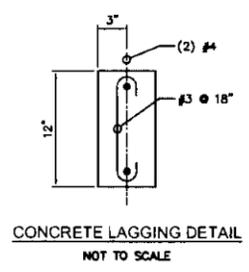
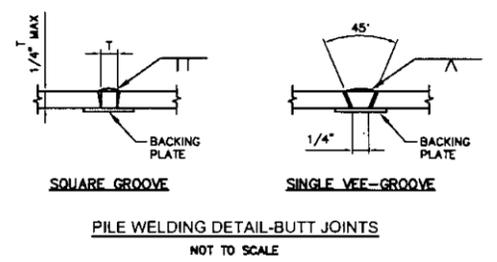
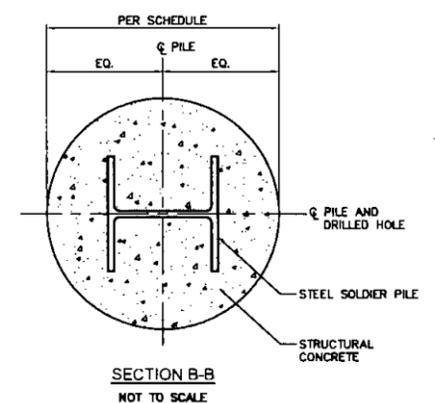
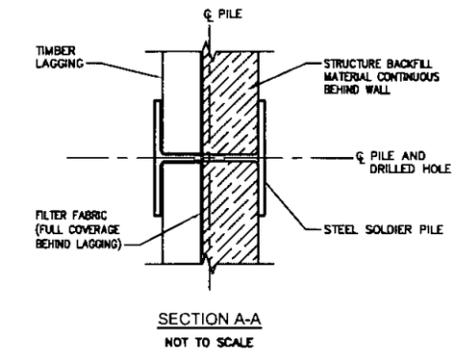
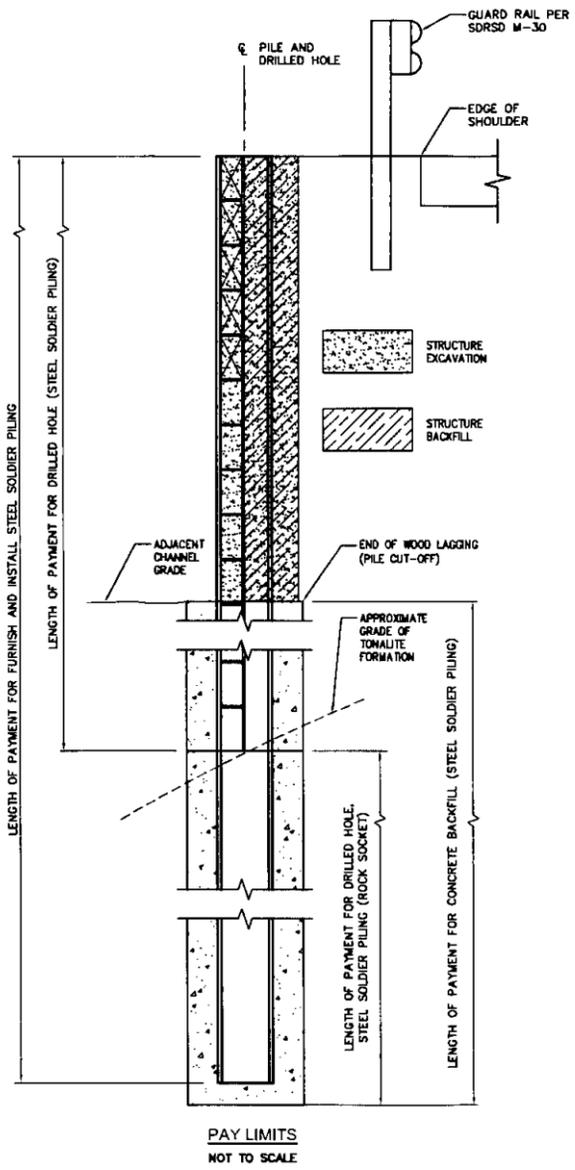
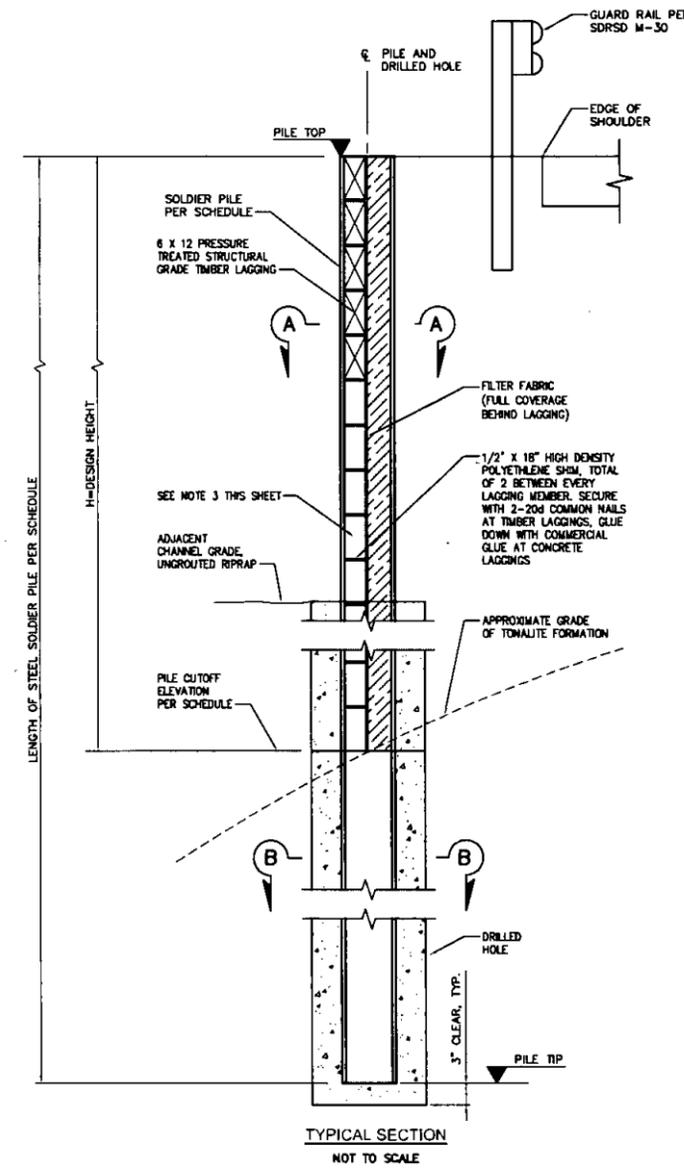
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**NOTES**

1. SINGLE VEE-GROOVE AND SQUARE GROOVE PERMITTED FOR ALL POSITIONS
2. FOR LAGGING DETAILS SEE "SOLDIER PILE WALL LAGGING DETAILS"
3. ALL LAGGING FROM PILE CUT-OFF ELEVATION TO 5 FT ABOVE SHALL BE STRUCTURAL CONCRETE LAGGING AT RETAINING WALLS NO. 3 AND 4

**GENERAL NOTES**

- DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION WITH CALIFORNIA AMENDMENTS.
- SURCHARGE LOAD: SLOPING BACKFILL / VEHICULAR (240 PSF)
- SOIL PARAMETERS: (FOR DETERMINATION OF DESIGN LATERAL EARTH PRESSURES) ACTIVE PRESSURE COEFFICIENT,  $K_a = 80$  pcf (FLUID UNIT WEIGHT) BACKFILL SOIL WEIGHT = 120 LB/FT FRICTION ANGLE = 30°
- STEEL SOLDIER PILES: ASTM A572 GRADE 50 MIN
- STRUCTURAL CONCRETE:  $f_c = 3600$  PSI
- STRUCTURAL TIMBER: DOUGLAS FIR LARCH #2 (PRESSURE TREATED)
- CONCRETE LAGGINGS:  $f_c = 3000$  PSI

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**COUNTY OF SAN DIEGO**  
**DEPARTMENT OF PUBLIC WORKS**  
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	LIVE OAK PARK ROAD BRIDGE OVER
X000 N X000 E	SAN LUIS REY RIVER TRIBUTARY
CONST. COMPL.	SOLDIER PILE RETAINING WALL 01
FIELD REVISIONS	

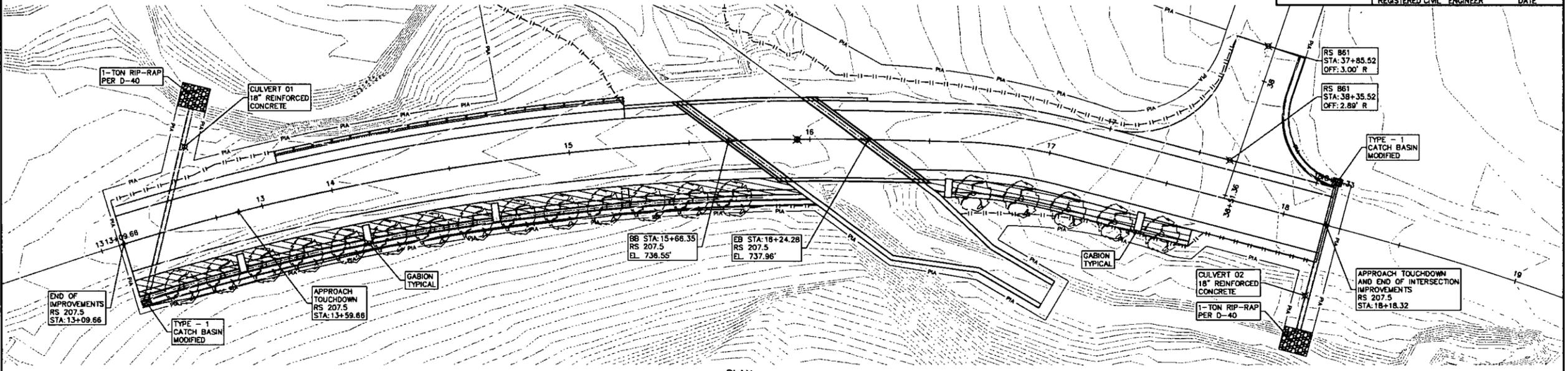
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SHEET 15 OF 29 SHEETS	

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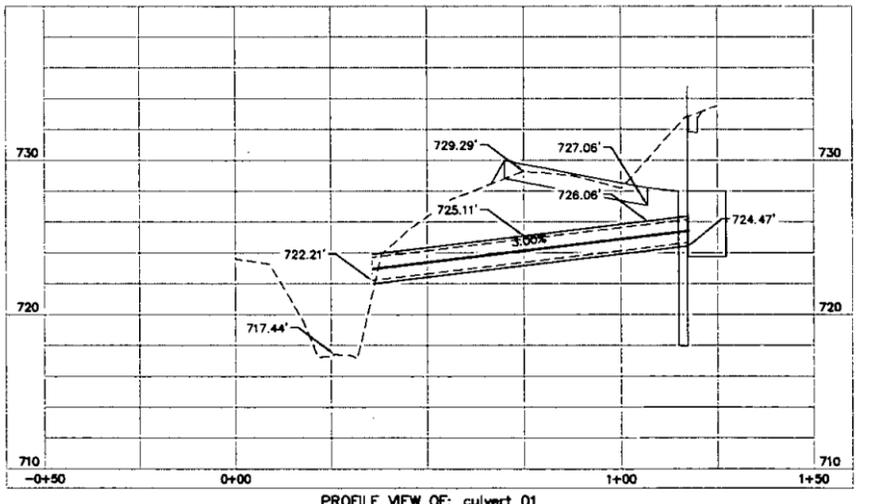
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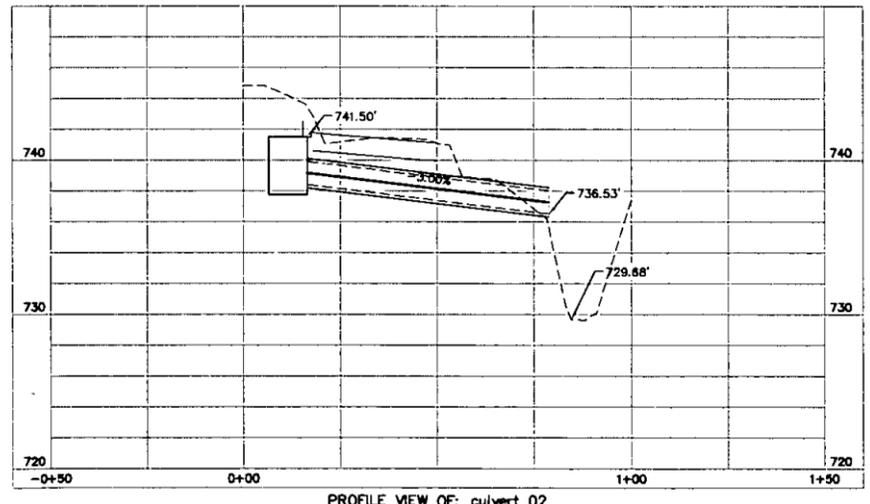
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PLAN  
1" = 20'



PROFILE VIEW OF: culvert 01



PROFILE VIEW OF: culvert 02

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**COUNTY OF SAN DIEGO**  
**DEPARTMENT OF PUBLIC WORKS**  
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



REVISIONS	BY	APPROVED	DATE

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FIELD REVISIONS	

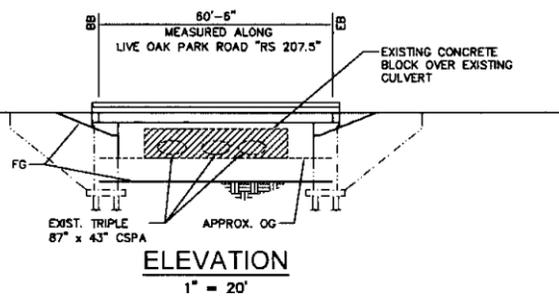
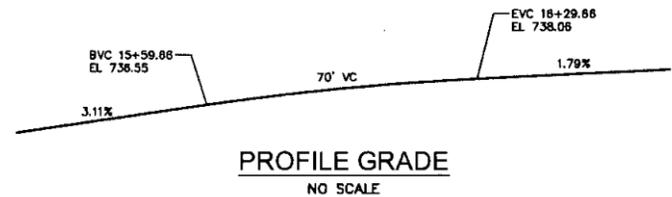
LIVE OAK PARK ROAD BRIDGE OVER  
SAN LUIS REY RIVER TRIBUTARY  
CULVERT LAYOUT

SCALE HOR.	NONE	VERT.	NONE
WA	XXXX	R.S.	XXXX
SP			
SHEET 18 OF 29 SHEETS			

Project: V:\07000\_VIP\Plans\Drawings\107001-0216-Culvert Layout.dwg Thursday, May 23 2017 2:36pm pmdc

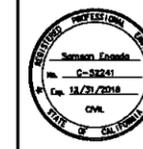
**INDEX OF BRIDGE PLANS**  
No. Description

- 19. GENERAL PLAN
- 20. DECK CONTOURS
- 21. FOUNDATION PLAN
- 22. ABUTMENT 1 LAYOUT
- 23. ABUTMENT 2 LAYOUT
- 24. ABUTMENT DETAILS No. 1
- 25. ABUTMENT DETAILS No. 2
- 26. ABUTMENT DETAILS No. 3
- 27. TYPICAL SECTION
- 28. LONGITUDINAL SECTION
- 29. LOG OF TEST BORINGS

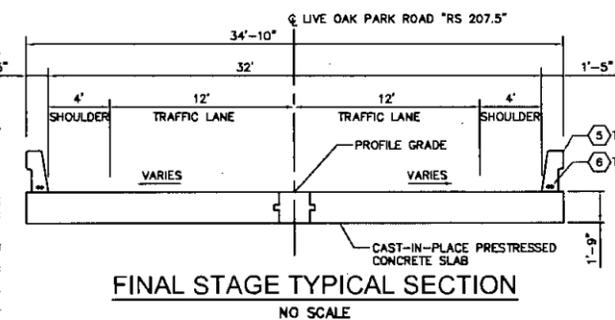
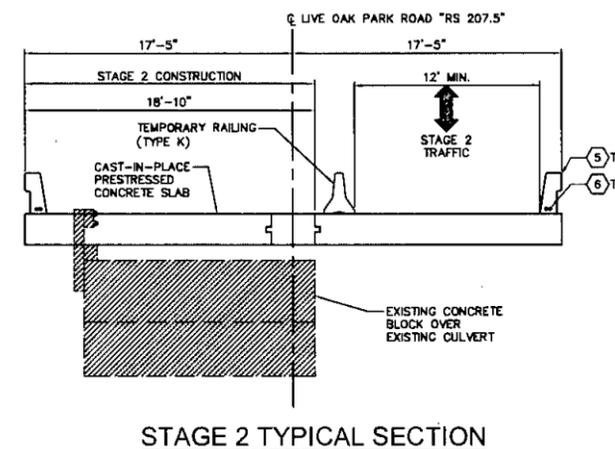
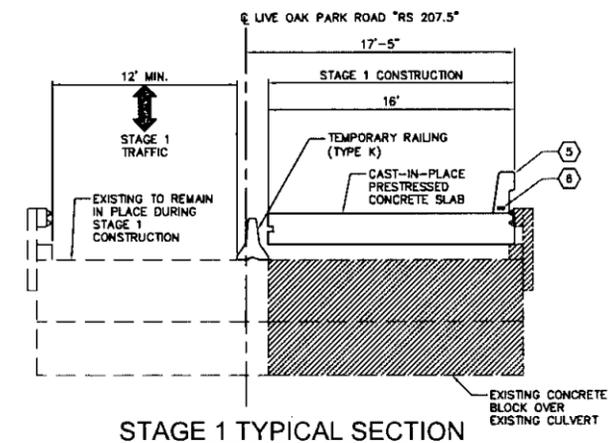


BRIDGE ITEMS OF WORK		
CONTRACT ITEMS	UNIT	QUANTITY
STRUCTURE EXCAVATION (BRIDGE)	CY	964
STRUCTURE BACKFILL (BRIDGE)	CY	249
ROCK EXCAVATION	CY	101
SHORING FOR EXCAVATIONS	LS	1
COFFERDAMING/RIVER DIVERSION	LS	1
CHANNEL GRADING/WIDENING	CY	3300
ENVIRONMENTAL MITIGATION	LS	1
24" CIDH CONCRETE PILING	LF	880
24" CIDH CONCRETE PILING (ROCK SOCKET)	LF	220
STRUCTURAL CONCRETE (BRIDGE)	CY	415
STRUCTURAL CONCRETE (BRIDGE FOOTING)	CY	111
BAR REINFORCING STEEL (BRIDGE)	LB	66370
JOINT SEAL, TYPE B	LF	140
TUBULAR HAND RAILING (MOD)	LF	130
CONCRETE BARRIER, TYPE 732	LF	130
PRESTRESSING STEEL	LB	10000
CULVERT REMOVAL	LS	1
SLOPE PROTECTION/CHANNEL RIP-RAP	SY	2100
STRUCTURAL EXCAVATION (RETAINING WALL)	CY	225
STRUCTURAL BACKFILL (RETAINING WALL)	CY	155
ROADWAY EXCAVATION	CY	945
DRILLED HOLE FOR STEEL SOLDIER PILING	LF	1245
DRILLED HOLE FOR STEEL SOLDIER PILING (ROCK SOCKET)	LF	215
STEEL SOLDIER PILING	LF	1460
WOOD LAGGING 8x (SOLDIER PILE)	TBFM	2
CONCRETE LAGGING (SOLDIER PILE)	EA	204

FOR REDUCED PLANS  
ORIGINAL SCALE IS IN INCHES



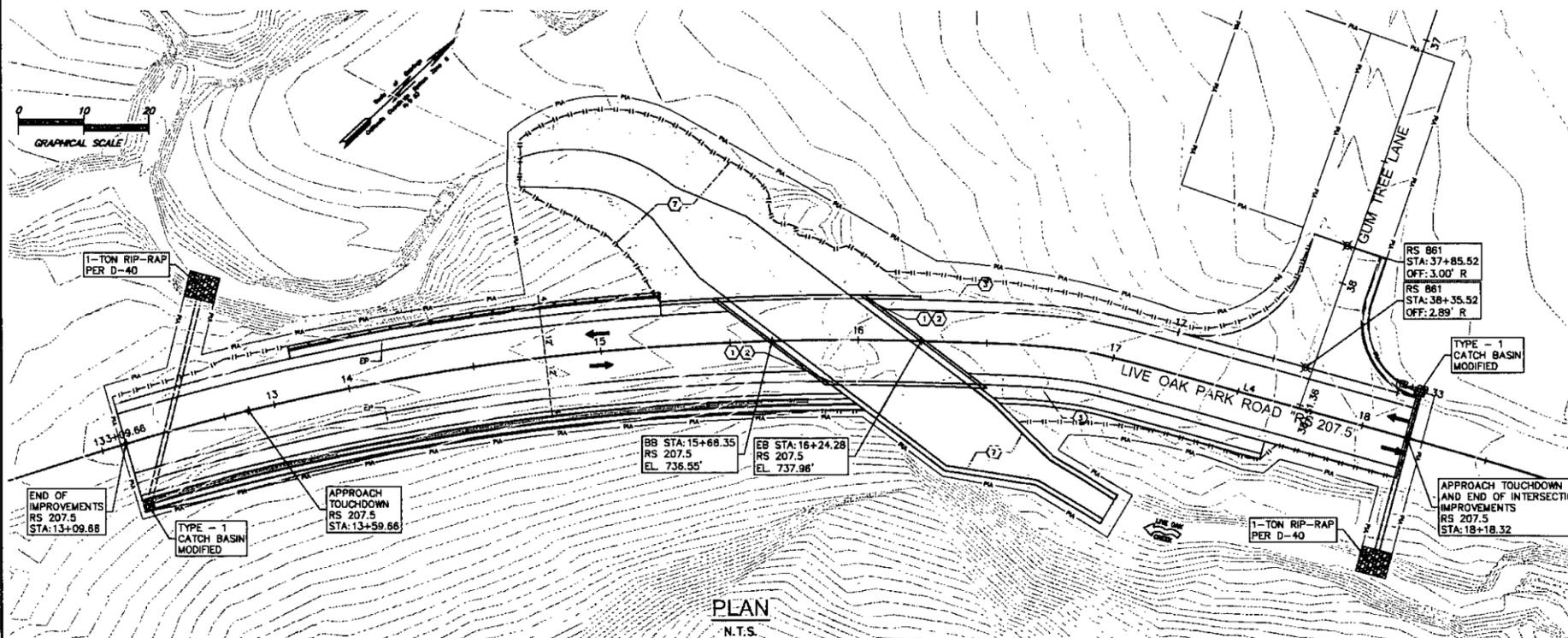
PLANS	BY	DATE
DESIGNED		
CHECKED		
REGISTERED CIVIL ENGINEER		DATE



**LEGEND**

- EXISTING STRUCTURE
- DIRECTION OF TRAFFIC
- INDICATES EXISTING STRUCTURE TO BE REMOVED
- INDICATES CHANNEL GRADING
- ①-PAIN BRIDGE NAME "LIVE OAK PARK ROAD BRIDGE"
- ②-PAIN "BRIDGE No. 57C-0709"
- ③-METAL BEAM GUARD RAIL
- ④-CRASH CUSHION, SEE ROADWAY PLANS
- ⑤-CSP B11-95 TYPE 732 CONCRETE BARRIER
- ⑥-(2) 2" STEEL CONDUITS FOR FUTURE UTILITY LINE
- ⑦-LIMITS OF CHANNEL GRADING, SEE ROAD PLANS FOR DETAIL

- NOTES**
- FOR CHANNEL AND ROADWAY GRADING, SEE ROAD PLANS
  - FOR ORDER OF WORK, SEE CONSTRUCTION STAGING
  - FOR MBGR, SEE ROAD PLANS



**COUNTY OF SAN DIEGO**  
**DEPARTMENT OF PUBLIC WORKS**  
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX	
XXXX - N	XXXX - E
CONST. COMPL.	
FIELD REVISIONS	

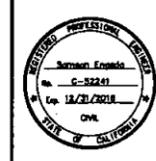
**LIVE OAK PARK ROAD BRIDGE OVER**  
**SAN LUIS REY RIVER TRIBUTARY**  
**GENERAL PLAN**

SCALE: HOR.	VERT.
NONE	NONE
W.A. XXXX	R.S. XXXX
SHEET 19 OF 28 SHEETS	

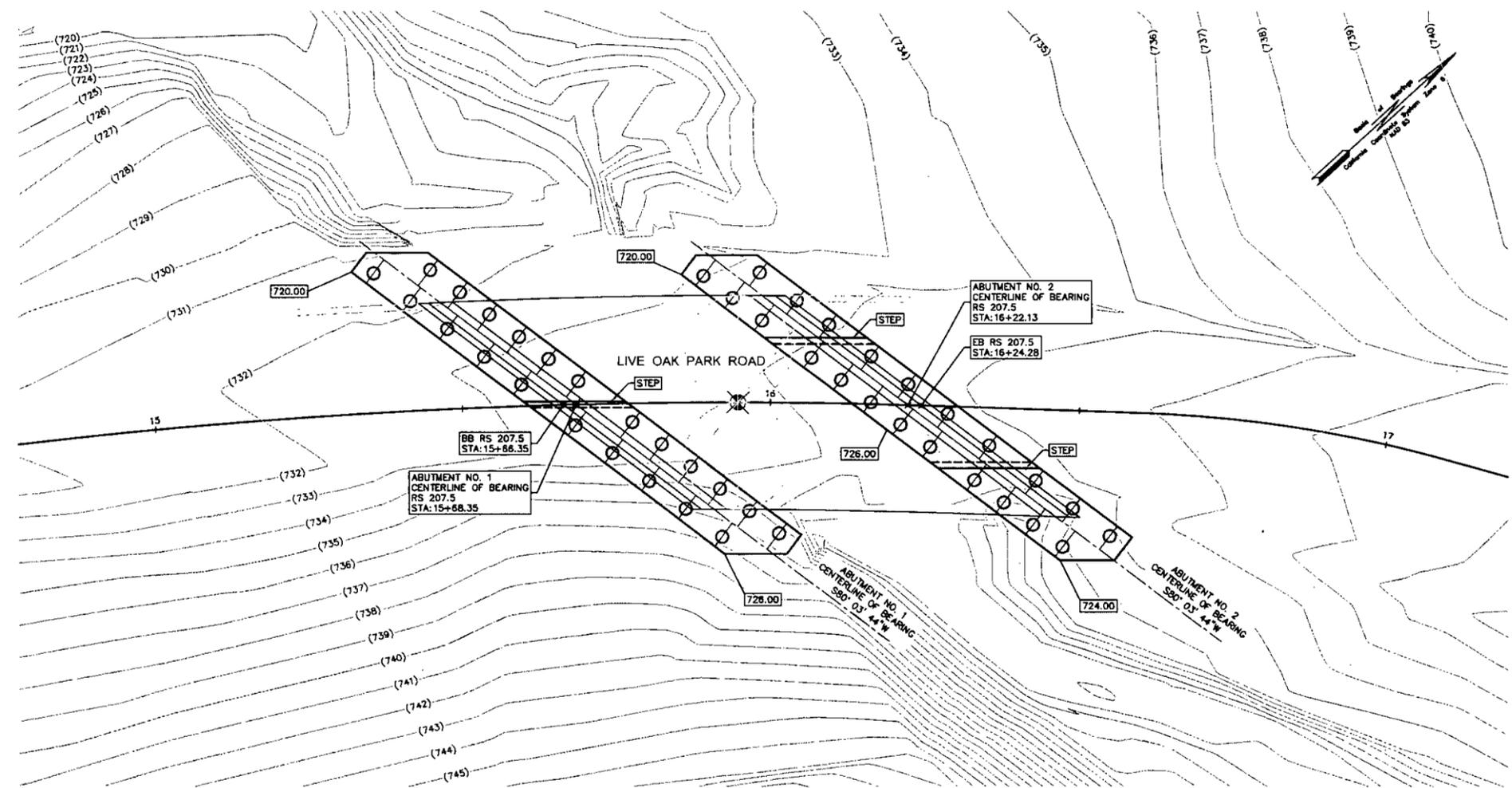
70% SUBMITTAL - NOT FOR CONSTRUCTION

Project: V07001\AD\Drawings\07001-001-GENERAL PLAN.dwg Thursday, May 23 2017 2:41pm pmaria

FOR REDUCED PLANS  
ORIGINAL SCALE IS IN INCHES



PLANS	BY	DATE
DESIGNED		
CHECKED		
REGISTERED CIVIL ENGINEER		DATE



**PLAN**  
1" = 10'

**NOTES:**

1) Stage 1 Construction coincides with Phase 2 on the roadway plans and Stage 2 Construction coincides with Phase 3 on the roadway plans.

LOCATION	PILE TYPE	NOMINAL RESISTANCE		DESIGNED TIP ELEVATION (FT.)	DESIGN LOADING
		COMPRESSION	TENSION		
ABUTMENT No. 1	24" CIDH	280 KIPS	140 KIPS	704(L) 710(R)	140 KIPS
ABUTMENT No. 2	24" CIDH	280 KIPS	140 KIPS	704(L) 710(M) 708(R)	140 KIPS

NOTE: Design tip elevations are controlled by: (1) COMPRESSION; (2) TENSION; (3) LATERAL LOADS

BENCH MARK  
----

**LEGEND**

- Indicates bottom of footing elevation
- CIDH Piles

70% SUBMITTAL - NOT FOR CONSTRUCTION

N:\Projects\107000\107000-0003-FOUNDATION PLAN.dwg Thursday, May 25 2017 2:45pm pmdtaz

**COUNTY OF SAN DIEGO**  
**DEPARTMENT OF PUBLIC WORKS**  
5500 OVERLAND AVENUE, SAN DIEGO, CA 92123-1295



REVISIONS	BY	APPROVED	DATE

COORDINATE INDEX  
XXXX N XXXX E  
CONST. COMPL.  
FIELD REVISIONS

**LIVE OAK PARK ROAD BRIDGE OVER  
SAN LUIS REY RIVER TRIBUTARY**  
**FOUNDATION PLAN**

SCALE: HOR. 1"=10' VERT. NONE  
W.A. XXXX P.S. XXXX  
SHEET 21 OF 28 SHEETS

County of San Diego DPW  
Live Oak Park Road Bridge Project  
Certification No. R9-2019-0084

**ATTACHMENT 5**

**MITIGATION MONITORING AND REPORTING PROGRAM**

**MITIGATION MONITORING AND REPORTING PROGRAM**  
**MITIGATED NEGATIVE DECLARATION**  
**FOR**  
**LIVE OAK PARK ROAD BRIDGE PROJECT**  
**State Clearinghouse # 2017121061**

**Prepared for:**

County of San Diego  
Department of Public Works  
Capital Improvements Project  
5500 Overland Avenue  
San Diego, CA 92123

**Prepared by:**

County of San Diego  
Department of Public Works  
Environmental Services Unit  
5510 Overland Avenue, Suite 410, MS O332  
San Diego, California 92123

**December 22, 2017**

**MITIGATION MONITORING AND REPORTING PROGRAM  
LIVE OAK PARK ROAD BRIDGE PROJECT**

Mitigation measures have been identified in the Mitigated Negative Declaration for the Live Oak Park Road Bridge Project to reduce or eliminate potential environmental impacts. The County of San Diego (County) is required to implement all adopted mitigation measures. In order to ensure compliance, the following mitigation monitoring program has been formulated. This program consists of a checklist followed by a detailed description of the mitigation measures.

These improvements will benefit the public by improving safety for motorists, bicyclists, and pedestrians on Live Oak Park Road in the unincorporated community of Fallbrook.

A mitigation checklist has been prepared for the project. Table 1 summarizes the mitigation measures for the Live Oak Park Road Bridge Project. Information contained within the checklist clearly identifies the mitigation measure, delineates the monitoring schedule, and defines the conditions required to verify compliance. Following is an explanation of the seven columns that constitute the checklist.

- Column 1**     **Mitigation Measure:** An inventory of each mitigation measure is provided with a brief description.
- Column 2**     **Type:** Each mitigation measure is classified as Project Design Mitigation (PD), Ongoing Mitigation (OM), or Long-Term Mitigation (LT) based upon the following definitions:
- Project Design Mitigation - mitigation that has been incorporated into the project design (e.g., dust control measures, traffic control plan, landscape plan);
  - Ongoing Mitigation - mitigation associated with the project over a period of time (e.g., success of revegetation);
  - Long-Term Mitigation - mitigation which requires monitoring over a greater period of time (e.g., five year revegetation monitoring program).
- Column 3**     **Monitor:** Identifies the County department or other public agency that is responsible for determining compliance with the mitigation measure and for informing DPW about compliance.
- Column 4**     **Schedule:** The monitoring schedule depends upon the progression of the overall project. Therefore, specific dates are not used within the "Schedule" column. Instead, scheduling describes a logical succession of events (e.g., prior to construction, annual) and if necessary, delineates a follow-up program.
- Column 5**     **Compliance Action:** The monitor can easily determine a mitigation measure's

completion by referring to "Compliance Action". Upon satisfaction of the requirement listed in this column, the mitigation measure is considered complete.

**Column 6 Verification of Compliance:** The monitor verifies completion of the particular mitigation measure by initialing and dating in this column. Where the "Schedule" column indicates annual or other ongoing mitigation measures, verification of compliance may not occur until completion of the project. Provision of all required signatures within the Verification of Compliance column signifies conclusion of the monitoring program.

**Column 7 Remarks:** The status of ongoing and cumulative mitigation measures is to be documented during each visit. The space provided for remarks is obviously too small for the inclusion of the remarks. It is intended that this space be used to indicate whether there are specific comments pertaining to the status of the mitigation measure. If there are additional comments they are to be attached to the checklist. Progress reports are required for the revegetation program. Information provided within progress reports will be helpful in the development of future mitigation programs.

This program is to be adopted by the lead and responsible agencies upon formulation of findings in order to comply with the requirements set forth by Assembly Bill 3180 (Public Resources Code Section 21081.6).

**Table 1. Mitigation Measures for Live Oak Park Road Bridge Project**

Mitigation Measure	Type	Monitor	Schedule	Compliance Action	Verification of Compliance		
					Initial	Date	Remarks
<b>BIOLOGICAL RESOURCES</b>							
Mitigate for temporary impacts to sensitive vegetation communities	LT	DPW ESU Planning Manager	Concurrent with, or post construction	Temporary impacts to 0.53 acre of coast live oak woodland, 0.03 acre of non-native grassland, 0.01 acre of open coast live oak woodland, and 0.32 acre of southern riparian forest will be mitigated through the restoration and replacement of habitat with native species to conditions similar to or better than conditions prior to construction.			
Mitigate for permanent impacts to sensitive vegetation communities	LT	DPW ESU Planning Manager	Concurrent with, or post construction	Permanent impacts to 0.18 acre of coast live oak woodland and 0.03 acre of southern riparian forest will be mitigated either on-site or off-site to the satisfaction of the resource agencies in the form of enhancement of habitats within temporary impact areas; enhancement of habitats in the adjacent creek; deduction of credits from a County-approved mitigation area; or other off-site preservation.			
Oak tree mitigation	LT	DPW ESU Planning Manager	Concurrent with, or post construction	Approximately 17 oak trees are expected to be removed and 17 oak trees will be trimmed and/or pruned and protected in place within the coast live oak woodland and open coast live oak woodland habitats. Temporary impacts to oak trees will be mitigated through the replacement and replanting of oak trees within the temporarily impacted areas. Permanent impacts to oak trees will be mitigated at a minimum 1:1 ratio through the additional planting of oak trees within the temporary impact areas. In addition, two infiltration tree trenches have been incorporated into the project and approximately 19 trees will be planted along the eastern roadway shoulder. If during construction it is determined that more than two additional oak trees that were going			

**Table 1. Mitigation Measures for Live Oak Park Road Bridge Project**

Mitigation Measure	Type	Monitor	Schedule	Compliance Action	Verification of Compliance			
					Initial	Date	Remarks	
					to be protected in place cannot be avoided and have to be removed, then additional oak trees will be incorporated into the restoration plans within the temporary impact areas at a 1:1 ratio.			
Mitigate for temporary impacts to jurisdictional resources	LT	DPW ESU Planning Manager	Concurrent with, or post construction	Temporary impacts to 0.17 of ACOE/RWQCB jurisdictional non-wetland waters of the U.S. and 0.35 acre of CDFW jurisdictional streambed and associated riparian habitat will be mitigated through the restoration and replacement of habitat to conditions similar to or better than conditions prior to construction.				
Mitigate for permanent impacts to jurisdictional resources	LT	DPW ESU Planning Manager	Concurrent with, or post construction	Permanent impacts to <0.01 acre of ACOE/RWQCB jurisdictional non-wetland waters of the U.S. and 0.03 acre of CDFW jurisdictional streambed and associated riparian habitat will be mitigated either on-site or off-site to the satisfaction of the resource agencies in the form of enhancement of habitats within temporary impact areas; enhancement of habitats in the adjacent creek; deduction of credits from a County-approved mitigation area; or other off-site preservation.				
Avoidance and minimization of impacts to nesting raptors	PD	DPW Project Biologist	Prior to and during construction	If project-related site disturbances are scheduled to occur during the core nesting period for raptors (January 15 through August 1), a qualified biologist will perform pre-construction nesting raptor surveys. The survey will be completed within seven days prior to any project-related disturbances. If raptors are nesting on or within 500 feet of the limits of disturbance (LOD), a 500-foot or other appropriate buffer as determined in coordination				

**Table 1. Mitigation Measures for Live Oak Park Road Bridge Project**

	Mitigation Measure	Type	Monitor	Schedule	Compliance Action	Verification of Compliance		
						Initial	Date	Remarks
					with the qualified biologist, should be flagged around the nest, and no project-related construction activities within the buffer will occur until it has been determined that all young have fledged or the nest is no longer active.			
	Avoidance and minimization of impacts to nesting migratory birds	PD	DPW Project Biologist	Prior to and during construction	If project-related site disturbances are scheduled to occur during the nesting period of native migratory birds (February 15 through September 1), a qualified biologist will perform pre-construction nesting bird surveys. For birds nesting on or within 100 feet of the LOD, a 100-foot or other appropriate buffer as determined in coordination with the qualified biologist, should be flagged around the nest, and no project-related construction activities within the buffer will occur until it has been determined that all young have fledged or the nest is no longer active.			
	Avoidance and minimization of impacts to roosting bats	PD	DPW Project Biologist	Prior to and during construction	To avoid any impacts on roosting bats resulting from construction activities, the following measures will be implemented: <ul style="list-style-type: none"> <li>• If the tree with bat roost potential is proposed for removal during the maternity season (April 15 through August 15), a qualified bat biologist will conduct a one night emergence survey before the start of construction/removal. If the roost is occupied, the tree will be avoided until after the maternity season.</li> <li>• If the tree with bat roost potential requires removal during the winter months when</li> </ul>			

**Table 1. Mitigation Measures for Live Oak Park Road Bridge Project**

Mitigation Measure	Type	Monitor	Schedule	Compliance Action	Verification of Compliance		
					Initial	Date	Remarks
				<p>bats are in torpor (October 31 through February 15), a qualified bat biologist will examine the roost for bats before the start of construction. If the roost is occupied, the tree will be avoided until after the winter season when bats are once again active.</p> <ul style="list-style-type: none"> <li>The tree branch can be removed outside of the maternity season and winter season (April 15 through August 15 and October 31 through February 15). If potential cavities are inspected by a qualified biologist and bats are absent, the branch can be removed. If cavities cannot be verified, then the branch should be shaken vigorously, and the branch can be removed on the following day.</li> </ul>			
Delineation of Environmentally Sensitive Areas (ESAs)	PD	DPW Project Biologist, DPW Project Engineer	Prior to construction	<p>Prior to clearing or construction, highly visible barriers (such as orange construction fencing) will be installed around areas adjacent to the project footprint to designate environmentally sensitive areas (ESAs) to be protected. No project activity of any type will be permitted within these ESAs. In addition, heavy equipment, including motor vehicles, will not be allowed to operate within the ESAs. All construction equipment will be operated in a manner so as to prevent accidental damage to environmentally sensitive areas. No structure of any kind, or incidental storage of equipment or supplies, will be allowed within these protected zones.</p>			

**Table 1. Mitigation Measures for Live Oak Park Road Bridge Project**

Mitigation Measure	Type	Monitor	Schedule	Compliance Action	Verification of Compliance		
					Initial	Date	Remarks
Standard Best Management Practices (BMPs) and Construction Monitoring	PD	DPW Project Biologist DPW Project Engineer	Prior to and during construction	BMPs will be established for the proposed project that will at a minimum outline requirements for water pollution and erosion control plans, equipment storage, fueling, and staging areas. Silt barriers will be incorporated into the project limit fencing to ensure protection of aquatic resources. Project measures will be included to ensure invasive plant material is not spread from the project site to other areas by disposal off site or by tracking seed on equipment, clothing, and shoes. Equipment/material imported from an area of invasive plants must be identified and measures implemented to prevent importation and spreading of nonnative plant material within the project site. All construction equipment will be cleaned with water to remove dirt, seeds, vegetative material, or other debris that could contain or hold seeds of noxious weeds before arriving to and leaving the project site. Weeds removed will be appropriately bagged and disposed of in a sanitary landfill. All food-related trash items will be enclosed in sealed containers and regularly removed from the site. A qualified biological monitor will be onsite periodically during construction activities and will ensure that all minimization measures are implemented. The biological monitor will provide a pre-construction briefing to educate and inform contractor personnel on avoidance measures and steps for compliance with all permit requirements.			
Avoid and Minimize Potential	PD	DPW Project	Prior to, concurrent with,	The potential for long-term loss of woody			

**Table 1. Mitigation Measures for Live Oak Park Road Bridge Project**

Mitigation Measure	Type	Monitor	Schedule	Compliance Action	Verification of Compliance		
					Initial	Date	Remarks
Disturbance of Woody Vegetation		Biologist	or post construction	vegetation will be minimized by trimming vegetation rather than removing entire trees or shrubs in areas where complete removal is not required. Trees or shrubs that need to be trimmed will be cut at least 1 foot above ground level to leave the root systems intact and allow for more rapid regeneration. Cutting will be limited to the minimum area necessary within the construction zone. A certified arborist will be retained to perform any necessary pruning or root cutting of retained trees. The areas that undergo vegetative pruning and tree removal will be inspected immediately before construction, immediately after construction, and 1 year after construction to determine the amount of existing vegetative cover, cover that has been removed, and cover that resprouts. After 1 year, if these areas have not resprouted sufficiently to return the cover to the pre-impact conditions, the County will replant the areas with appropriate native species to reestablish the cover to the pre-impact conditions.			
<b>CULTURAL RESOURCES</b>							
Avoidance of impacts to previously undiscovered cultural resources	PD	DPW Project Archaeologist	During construction	Monitoring by a qualified archaeologist and Luiseño Native American monitor shall be performed during initial grading activities in previously undisturbed soils. The archaeologist and Luiseño Native American monitor will attend a pre-construction meeting to discuss monitoring coordination and discovery protocol.			

**Table 1. Mitigation Measures for Live Oak Park Road Bridge Project**

	Mitigation Measure	Type	Monitor	Schedule	Compliance Action	Verification of Compliance		
						Initial	Date	Remarks
					<p>If inadvertent discoveries of historical resources, tribal cultural resources, or archaeological resources are made, the County, project archaeologist, and Luiseño Native American monitor shall have the authority to divert or temporarily halt ground disturbance operations in the area of discovery to assess the significance of the resources and confer regarding the appropriate treatment (i.e., preservation, avoidance, and/or mitigation for the resources). The project archaeologist shall consult with the Luiseño Native American monitor in assessing the potential significance of the tribal cultural resource. Work may proceed in other parts of the project that does not disturb the area of concern or disrupt the investigation while historical or unique resource mitigation takes place. As part of the objectives, criteria, and procedures required by Section 21082 of the Public Resources Code, a lead agency shall make provisions for historical or unique archaeological resources inadvertently discovered during construction. The cultural resources may be repatriated to an appropriate, traditionally and culturally affiliated Native American tribe. If the appropriate, traditionally and culturally affiliated tribe does not accept the materials for repatriation, then those tribal cultural resources would be subject to curation in accordance with the County's curation policy.</p>			

**Table 1. Mitigation Measures for Live Oak Park Road Bridge Project**

Mitigation Measure	Type	Monitor	Schedule	Compliance Action	Verification of Compliance		
					Initial	Date	Remarks
				<p>Consistent with California Public Resources Code Section 21083.2(b) and Assembly Bill 52 (Chapter 532, Statutes of 2014), avoidance shall be the preferred method of preservation for tribal cultural resources and archaeological resources. Work could continue in other parts of the project site while historical or unique archaeological resource mitigation takes place. The project archaeologist, in consultation with the County staff archaeologist, and in consultation with the Luiseño Native American monitor, where appropriate, shall determine the significance of the discovered resources. For significant cultural resources, a Research Design and Data Recovery Program to mitigate impacts shall be prepared by the archaeologist, in consultation with the Luiseño Native American monitor, and approved by the County staff archaeologist, then carried out using professional archaeological methods.</p> <p>Additionally, any fill material used for the project shall be absent of cultural resources.</p>			
Avoidance of impacts to previously undiscovered human remains	PD	DPW Project Archaeologist	During construction	<p>Monitoring by a qualified archaeologist and Luiseño Native American monitor shall be performed during initial grading activities in previously undisturbed soils.</p> <p>If human remains are encountered, consistent with California Health and Safety Code Section 7050.5, no further disturbance shall occur until the County</p>			

**Table 1. Mitigation Measures for Live Oak Park Road Bridge Project**

	Mitigation Measure	Type	Monitor	Schedule	Compliance Action	Verification of Compliance		
						Initial	Date	Remarks
					<p>Coroner has made the necessary findings as to origin of the remains. Further, consistent with California Public Resources Code Section 5097.98(b), human remains shall be left in place and free from disturbance until a final decision as to the treatment and disposition has been made. If the human remains are suspected to be of Native American ancestry, then a Luiseño Native American monitor shall be present during examination to ensure respectful and dignified treatment of the human remains.</p> <p>If the County Coroner determines the remains to be Native American, the Native American Heritage Commission (NAHC) shall be contacted within twenty-four hours. The NAHC shall immediately identify the "most likely descendant(s)" (MLD) and notify them of the discovery. The MLD shall make recommendations within forty-eight hours after being allowed access to the site, and engage in consultations with the landowner concerning the treatment of the remains. The immediate vicinity where the Native American human remains are located is not to be damaged or disturbed by further construction activity until consultation with the MLD regarding their recommendations as required by Public Resources Code Section 5097.98 has been conducted. Public Resources Code §5097.98, CEQA §15064.5 and Health &amp; Safety Code §7050.5 shall be followed.</p>			