CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

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http://www.waterboards.ca.gov/sandiego/

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

PROJECT: **I-805 South Soundwalls and Widening Project, a portion of Phase 2 of the I-805 South Managed Lanes Project**
Certification Number R9-2016-0180
WDID: 9000003084

Reg. Meas. ID:	408238
Place ID:	827154
Party ID:	7222
Person ID:	544310
WDID:	9 000003084

APPLICANT: **California Department of Transportation**
4050 Taylor Street
MS-242
San Diego, CA 92110

ACTION:

☐ Order for Low Impact Certification	☐ Order for Denial of Certification
☑ Order for Technically-conditioned Certification	☐ Enrollment in Isolated Waters Order No. 2004-004-DWQ
☑ Enrollment in SWRCB GWDR Order No. 2003-017-DWQ	

PROJECT DESCRIPTION

An application dated August 2, 2016 was submitted by California Department of Transportation (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (United States Code (USC) Title 33, section 1341) for the proposed **I-805 South Soundwalls and Widening Project, a portion of Phase 2 of the I-805 South Managed Lanes Project** (Project). The California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) deemed the application to be complete on November 14, 2016 and later denied the project without prejudice on June 19, 2017. The Applicant proposes to discharge dredged or fill material to waters of the United States and/or State associated with construction activity at the Project site. The Applicant has also applied for a Clean Water Act section 408 permit from the United States Army Corps of Engineers for the Project.

The Project is located within the City of Chula Vista, the unincorporated communities of Lincoln Acres and Bonita, San Diego County, California and located where Interstate 805 crosses over the Sweetwater River. The Project center reading is located at latitude 32.657° and longitude -117.073°. The Applicant has paid all required application fees for this Certification in the amount of $12,644.00. On an annual basis, the Applicant shall also pay all active discharge

fees and post discharge monitoring fees, as appropriate[1]. On November 14, 2016, 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.

The Applicant proposes to widen the existing I-805 bridge over the Sweetwater River and add soundwalls south of the bridge.

- The project includes outside main-lane pavement widening, outside widening of the Naples Street Under Crossing (UC) (Bridge No. 57- 0634) and Telegraph Canyon UC (Bridge No. 57-0635), inside widening of the Sweetwater River Bridge (Bridge No. 57-0638), and the construction of retaining walls/soundwalls. The project is located between Post Mile 5.3 and 8.8, beginning adjacent to and south of the Naples Street. UC, and ending at the I-805/SR-54 Separation (Bridge No. 57-0746). The total project length is approximately 3.5 miles.
- The total proposed disturbed area is 20.3 acres - consisting of existing pavement to be removed and replaced, slope paving, trenching for irrigation supply lines, installation of a biofiltration swale, and construction of retaining wall/soundwall areas.
- The existing impervious area is 123.3 acres and the proposed impervious area is 125.2 acres. The new impervious area created by the project will be 1.9 acres.

The Project will convert approximately 1.9 acres of pervious ground cover to impervious surfaces. Runoff leaving the developed Project area would be significantly greater in volume, velocity, peak flow rate, and duration than pre-development runoff from the same area without mitigation. Post-construction best management practices (BMPs) to manage and control the effects of these runoff increases will consist of one biofiltration swale to treat the 1.92 acres of new and existing impervious areas with a residence time of at least 5 minutes.

The Project application includes a description of the design objective, operation, and degree of treatment expected to be attained from equipment, facilities, or activities (including construction and post-construction BMPs) to treat waste and reduce runoff or other effluents which may be discharged. Compliance with the Certification conditions will help ensure that construction and post-construction discharges from the Project will not cause on-site or off-site downstream erosion, damage to downstream properties, or otherwise damage stream habitats in violation of water quality standards in the *Water Quality Control Plan for the San Diego Basin (9)* (Basin Plan).

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[1] The Applicant shall pay an annual active discharge fee each fiscal year or portion of a fiscal year during which discharges occur until the regional water board or the State Water Resources Control Board (State Water Board) issues a Notice of Completion of Discharges Letter to the discharger. Dischargers shall pay an annual post-discharge monitoring fee each fiscal year or portion of a fiscal year commencing with the first fiscal year following the fiscal year in which the regional water board or State Water Board issued a Notice of Completion of Discharges Letter to the discharger, but continued water quality monitoring or compensatory mitigation monitoring is required. Dischargers shall pay the annual post-discharge monitoring fee each fiscal year until the regional water board or the State Water Board issues a Notice of Project Complete Letter to the discharger. Additional information regarding fees can be found electronically at the following location: http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/dredgefillcalculator.xlsx

Project construction will permanently impact 0.14 acre (352 linear feet) of wetland 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 compensatory mitigation for the permanent loss of 0.14 acre of jurisdictional waters will be achieved through the re-establishment of 2.37 acres of waters of the United States and/or State through the purchase of mitigation credits from the Rancho Jamul Mitigation Bank. 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 at the Rancho Jamul Mitigation Bank located in the Proctor hydrologic sub-area (HSA 910.32) at a minimum compensation ratio of 2:1 for permanent impacts, 1:1 onsite and 1:1 offsite for temporary impacts (area mitigated:area impacted).

Compensatory mitigation to offset the permanent loss of jurisdictional waters will be achieved through the Applicant' s purchase of mitigation bank credits from the Rancho Jamul Mitigation Bank (Bank) in advance of Project construction. Mitigation credit parcels, purchased from the Bank to satisfy compensatory mitigation requirements, are required to be protected, monitored and maintained in perpetuity by the Bank pursuant to a federal and State approved bank enabling instrument and a recorded conservation 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.

Additional Project details are provided in Attachments 2 through 5 of this Certification.

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Attachments:

1. **Definitions**
2. **Project Location Map**
3. **Project Site Plans**
4. **Mitigation Figures and Agreement for Sale**
5. **CEQA Mitigation Monitoring and Reporting Program**

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. R9-2016-0180 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 USC Title 33, section1344) 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/go_wdr401regulated_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 USC section 1313). The Basin Plan is accessible at:

http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml

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 Board 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 wetlands of the Sweetwater River or its tributaries;

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 or will be provided upon request.

III. CONSTRUCTION BEST MANAGEMENT PRACTICES

A. **Approvals to Commence Construction**. The Applicant shall not commence Project construction until all necessary federal, State, and local approvals are obtained.

B. **Personnel Education.** Prior to the start of the Project, and annually thereafter, the Applicant must educate all personnel on the requirements in this Certification, pollution prevention measures, spill response measures, and BMP implementation and maintenance measures.

C. **Spill Containment Materials.** The Applicant must, at all times, maintain appropriate types and sufficient quantities of materials on-site to contain any spill or inadvertent release of materials that may cause a condition of pollution or nuisance if the materials reach waters of the United States and/or State.

D. **General Construction Storm Water Permit.** 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 runoff management plan (or equivalent construction BMP plan) to prevent the discharge of sediment and other pollutants during construction activities.

E. **Waste Management.** The Applicant must properly manage, store, treat, and dispose of wastes in accordance with applicable federal, state, and local laws and regulations. Waste management shall be implemented to avoid or minimize exposure of wastes to precipitation or storm water runoff. The storage, handling, treatment, or disposal of waste shall not create conditions of pollution, contamination or nuisance as defined in Water Code section 13050. Upon Project completion, all Project generated debris, building materials, excess material, waste, and trash shall be removed from the Project site(s) for disposal at an authorized landfill or other disposal site in compliance with federal, state and local laws and regulations.

F. **Waste Management**. Except for a discharge permitted under this Certification, the dumping, deposition, or discharge of trash, rubbish, unset cement or asphalt, concrete, grout, damaged concrete or asphalt, concrete or asphalt spoils, wash water, organic or earthen material, steel, sawdust or other construction debris waste from Project activities directly into waters of the United States and or State, or adjacent to such

waters in any manner which may permit its being transported into the waters, is prohibited.

G. **Downstream Erosion.** Discharges of concentrated flow during construction or after Project completion must not cause downstream erosion or damage to properties or stream habitat.

H. **Construction Equipment**. All equipment must be washed prior to transport to the Project site and must be free of sediment, debris, and foreign matter. All equipment used in direct contact with surface water shall be steam cleaned prior to use. All equipment using gas, oil, hydraulic fluid, or other petroleum products shall be inspected for leaks prior to use and shall be monitored for leakage. Stationary equipment (e.g., motors, pumps, generator, etc.) shall be positioned over drip pans or other types of containment.

I. **Process Water.** Water containing mud, silt, or other pollutants from equipment washing or other activities, must not be discharged to waters of the United States and/or State or placed in locations that may be subjected to storm water runoff flows. Pollutants discharged to areas within a stream diversion must be removed at the end of each work day or sooner if rain is predicted.

J. **Surface Water Diversion.** All surface waters, including ponded waters, must be diverted away from areas of active grading, construction, excavation, vegetation removal, and/or any other activity which may result in a discharge to the receiving water. Diversion activities must not result in the degradation of beneficial uses or exceedance of the receiving water quality objectives. Any temporary dam or other artificial obstruction constructed must only be built from materials such as clean gravel which will cause little or no siltation. Normal flows must be restored to the affected stream immediately upon completion of work at that location.

K. **Re-vegetation and Stabilization.** All areas that have 14 or more days of inactivity must be stabilized within 14 days of the last activity. The Applicant shall implement and maintain BMPs to prevent erosion of the rough graded areas. After completion of grading, all areas must be re-vegetated with native species appropriate for the area. The re-vegetation palette must not contain any plants listed on the California Invasive Plant Council Invasive Plant Inventory, which can be accessed at http://www.cal-ipc.org/ip/inventory/.

L. **Hazardous Materials.** Except as authorized by this Certification, substances hazardous to aquatic life including, but not limited to, petroleum products, unused cement/concrete, asphalt, and coating materials, must be prevented from contaminating the soil and/or entering waters of the United States and/or State. BMPs must be implemented to prevent such discharges during each Project activity involving hazardous materials.

M. **Vegetation Removal.** Removal of vegetation must occur by hand, mechanically, or through application of United States Environmental Protection Agency (USEPA) approved herbicides deployed using applicable BMPs to minimize adverse effects to beneficial uses of waters of the United States and/or State. Discharges related to the application of aquatic pesticides within waters of the United States must be done in compliance with State Water Resources Control Board Water Quality Order No. 2004-0009-DWQ, the *Statewide General National Pollution Discharge Elimination System Permit for the Discharge of Aquatic Weed Control in Waters of the United States,* and any subsequent reissuance as applicable.

N. **Limits of Disturbance.** The Applicant shall clearly define the limits of Project disturbance to waters of the United States and/or State using highly visible markers such as flag markers, construction fencing, or silt barriers prior to commencement of Project construction activities within those areas.

O. **On-site Qualified Biologist.** The Applicant shall designate an on-site qualified biologist to monitor Project construction activities within or adjacent to waters of the United States and/or State to ensure compliance with the Certification requirements. The biologist shall be given the authority to stop all work on-site if a violation of this Certification occurs or has the potential to occur. Records and field notes of the biologist's activities shall be kept on-site and made available for review upon request by the San Diego Water Board.

P. **Beneficial Use Protection**. The Applicant must take all necessary measures to protect the beneficial uses of waters of the Sweetwater River. This Certification requires compliance with all applicable requirements of the Basin Plan. If at any time, an unauthorized discharge to surface waters (including rivers or streams) occurs or monitoring indicates that the Project is violating, or threatens to violate, water quality objectives, the associated Project activities shall cease immediately and the San Diego Water Board shall be notified in accordance with Notification Requirement VII.A of this Certification. Associated Project activities may not resume without approval from the San Diego Water Board.

Q. **Groundwater Dewatering.** If groundwater dewatering is required for the Project, the Applicant shall enroll in and comply with the requirements of San Diego Water Board Order No. R9-2015-0013 NPDES No. CAG919003, *General Waste Discharge Requirements For Groundwater Extraction Waste Discharges From Construction, Remediation, and Permanent Groundwater Extraction Projects to Surface Waters within the San Diego Region Except for San Diego Bay* or its successor permit.

IV. POST-CONSTRUCTION BEST MANAGEMENT PRACTICES

A. **Post-Construction Discharges.** The Applicant shall not allow post-construction discharges from the Project site to cause or contribute to on-site or off-site erosion or damage to properties or stream habitats.

B. **Storm Drain Inlets.** All storm drain inlet structures within the Project boundaries must be stamped or stenciled (or equivalent) with appropriate language prohibiting non-storm water discharges.

C. **Post-Construction BMP Design.** The Project must be designed to comply with the most current Standard Storm Water Mitigation and Hydromodification Plans for California Department of Transportation. Post-construction BMPs are described in the *Long Form – Storm Water Data Report* (SWDR), dated January 21, 2016.

D. **Post-Construction BMP Implementation.** All post-construction BMPs must be constructed, functional, and implemented prior to completion of Project construction, occupancy, and/or planned use, and maintained in perpetuity. The post construction BMPs must include those described in the SWDR, dated January 21, 2016, prepared by the California Department of Transportation; or any subsequent version of the SWDR approved by the California Department of Transportation.

E. **Post-Construction BMP Maintenance.** The post construction BMPs must be designed, constructed, and maintained in accordance with the most recent California Storm Water Quality Association (CASQA)[2] guidance. The Applicant shall:

1. No less than two times per year, assess the performance of the BMPs to ensure protection of the receiving waters and identify any necessary corrective measures;

2. Perform inspections of BMPs, at the beginning of the wet season no later than October 1 and the end of the wet season no later than April 1, for standing water, slope stability, sediment accumulation, trash and debris, and presence of burrows;

3. Regularly perform preventative maintenance of BMPs, including removal of accumulated trash and debris, as needed to ensure proper functioning of the BMPs;

4. Identify and promptly repair damage to BMPs; and

5. Maintain a log documenting all BMP inspections and maintenance activities. The log shall be made available to the San Diego Water Board upon request.

V. PROJECT IMPACTS AND COMPENSATORY MITIGATION

A. **Project Impacts and Compensatory Mitigation.** Unavoidable Project impacts to the wetlands of the Sweetwater River within the Sweetwater 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:

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[2] California Storm Water Quality Association (*California Storm Water BMP Handbook, New Development and Redevelopment 2003*), available on-line at: http://www.cabmphandbooks.org/ [Accessed on January 15, 2012]

	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)
Permanent Impacts						
Wetland	0.14[1]	N/A	0.28 Re-establishment[2]	2:1	NA[3]	NA[3]
Temporary Impacts[4]						
Wetland	2.09	N/A	2.09	1:1	N/A	N/A

NA – Not applicable

1. Permanent impacts from the construction of four new bridge pier footings in the wetlands of the Sweetwater River.
2. Project compensatory mitigation re-establishment credits will be purchased from the Rancho Jamul Mitigation Bank, Otay, CA.
3. Compensatory mitigation is being provided in a contiguous area at the Rancho Jamul Mitigation Bank (approximately 2.37 acres); therefore, compensatory mitigation for linear feet is not being calculated on a project by project basis.
4. All areas of temporary impacts must be restored to pre-project contours and re-vegetated with native species and will also be mitigated at the Rancho Jamul Mitigation Bank at a ratio of 1:1 for temporal impacts greater than 12 months.

B. **Mitigation Credit Purchase.** Prior to the start of construction, the Applicant must provide documentation to the San Diego Water Board verifying the purchase of at least 2.37 acre of credit applicable to the establishment and/or re-establishment of wetland waters of the U.S. and/or State from the Rancho Jamul Mitigation Bank. The use of an alternate mitigation bank to provide required compensatory mitigation must be approved by the San Diego Water Board before the credits are secured and is subject to the following conditions:

1. The Applicant must identify the USACE approved mitigation bank and submit documentation demonstrating that:

   a. The permitted Project impacts are located within the service area of the mitigation bank; and

   b. The mitigation bank has the appropriate number and resource type of credits available.

2. If San Diego Water Board approval of the use of the alternate mitigation bank is obtained, the Applicant must provide documentation verifying that the appropriate number and resource type of credits have been secured from the mitigation bank prior to the start of construction.

C. **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.

VI. 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:

1. The date, exact place, and time of sampling or measurements;
2. The individual(s) who performed the sampling or measurements;
3. The date(s) analyses were performed;
4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used; and
6. The results of such analyses.

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

F. **Geographic Information System Data.** The Applicant must submit Geographic Information System (GIS) shape files of the Project impact sites within 30 days of the start of project construction and GIS shape files of the Project mitigation sites within 30 days of mitigation installation. All impact and mitigation site shape files must be polygons. Two GPS readings (points) must be taken on each line of the polygon and the polygon must have a minimum of 10 points. GIS metadata must also be submitted.

G. **Annual Project Progress Reports.** The Applicant must submit annual Project progress reports describing status of BMP implementation and 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 Annual Project Progress Reports must contain compensatory mitigation monitoring information sufficient to demonstrate how the compensatory mitigation project is progressing towards accomplishing its objectives and meeting its performance standards. Annual Project Progress Reports must be submitted even if Project construction has not begun. The monitoring period for each Annual Project Progress Report shall be January 1st through December 31st of each year. Annual Project Progress Reports must include, at a minimum, the following:

1. **Project Status and Compliance Reporting.** The Annual Project Progress Report must include the following Project status and compliance information:

   a. The names, qualifications, and affiliations of the persons contributing to the report;

   b. The status, progress, and anticipated schedule for completion of Project construction activities including the installation and operational status of best management practices project features for erosion and storm water quality treatment;

   c. A description of Project construction delays encountered or anticipated that may affect the schedule for construction completion; and

   d. 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. BMP installation and operational status for the Project;

4. As-built drawings of the Project, no bigger than 11"X17";

5. 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/d

ocs/StreamPhotoDocSOP.pdf. In addition, photo documentation must include Global Positioning System (GPS) coordinates for each of the photo points referenced; and

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. 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. R9-2016-0180:PIN 827154:mporter
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. R9-2016-0180:PIN 827154:mporter.

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. **Hazardous Substance Discharge**. Except as provided in Water Code section 13271(b), any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, shall as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the County of San Diego, in accordance with California Health and Safety Code section 5411.5 and the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.17), and immediately notify the State Water Board or the San Diego Water Board of the discharge. This

provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of section 13271 of the Water Code unless the Applicant is in violation of a Basin Plan prohibition.

C. **Oil or Petroleum Product Discharge.** Except as provided in Water Code section 13272(b), any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.1). This requirement does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Clean Water Act section 311, or the discharge is in violation of a Basin Plan prohibition.

D. **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.

E. **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 responsibility for compliance with this Certification in the event that a transferee fails to comply.

VIII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

A. The California Department of Transportation 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 filed a NEPA/CEQA Revalidation Form approved June 2011 for the Final Environmental Impact Report (FEIR) titled Interstate 805 South Soundwalls and Widening (State Clearing House Number 2007051150). 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 FEIR 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. The Lead Agency has adopted a mitigation monitoring and reporting program pursuant to Public Resources Code section 21081.6 and CEQA Guidelines section 15097 to ensure that mitigation measures and revisions to the Project identified in the FEIR are implemented. The Mitigation Monitoring and Reporting Program (MMRP) is included and incorporated by reference in Attachment 5 to this Certification. The Applicant shall implement the Lead Agency's MMRP described in the FEIR, as it pertains to resources within the San Diego Water Board's purview. The San Diego Water Board has imposed additional MMRP requirements as specified in sections V and VI of this Certification.

E. 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
Telephone: (619) 521-3967
Email: mike.porter@waterboards.ca.gov

X. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **I-805 South Soundwalls and Widening Project, a portion of Phase 2 of the I-805 South Managed Lanes Project** (Certification No. R9-2016-0180) 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. R9-2016-0180 issued on ~~February 26, 2018~~ March 2, 2018.

DAVID W. GIBSON
Executive Officer
San Diego Water Board

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.

Caltrans District 11
I-805 South Soundwalls and Widening Project,
a portion of Phase 2 of the I-805 South Managed Lanes Project
Certification No. R9-2016-0180

ATTACHMENT 2
PROJECT LOCATION MAP

Sheet 1 – Location Map, Project ID. 1112000217

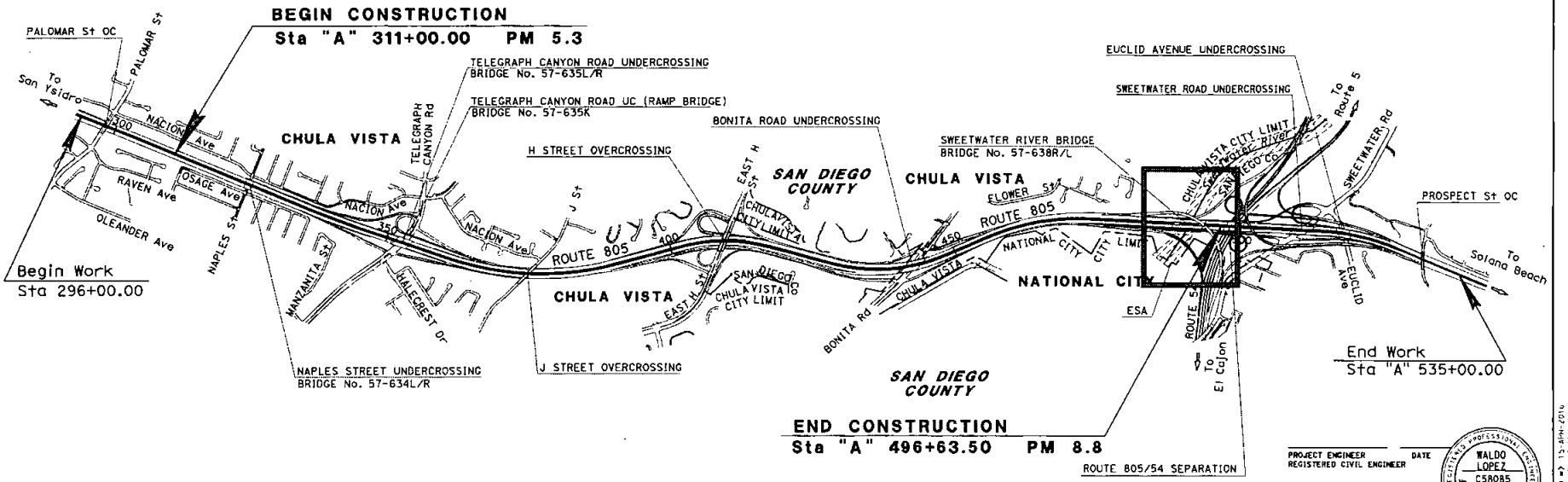
INDEX OF PLANS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN SAN DIEGO COUNTY
IN CHULA VISTA AND NATIONAL CITY FROM 0.2 MILE NORTH OF PALOMAR STREET OVERCROSSING TO ROUTE 805/54 SEPARATION

TO BE SUPPLEMENTED BY 2015 STANDARD PLANS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	805	5.3/8.8	1	



DESIGN ENGINEER	ROGER CARLIN
PROJECT MANAGER	RAMON MARTINEZ

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

WALDO LOPEZ No. C58085 Exp. 6-30-16 CIVIL

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	11-2T2604
PROJECT ID	1112000217

LAST REVISION 04-04-16

DATE PLOTTED => 15-APR-2016
TIME PLOTTED => 13:30

BORDER LAST REVISED 7/2/2010 | CALTRANS WEB SITE IS: HTTP://WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s120957 DGN FILE => 1112000217sht001.dgn | UNIT 2784 | PROJECT NUMBER & PHASE 1112000217

ATTACHMENT 3
PROJECT SITE PLANS

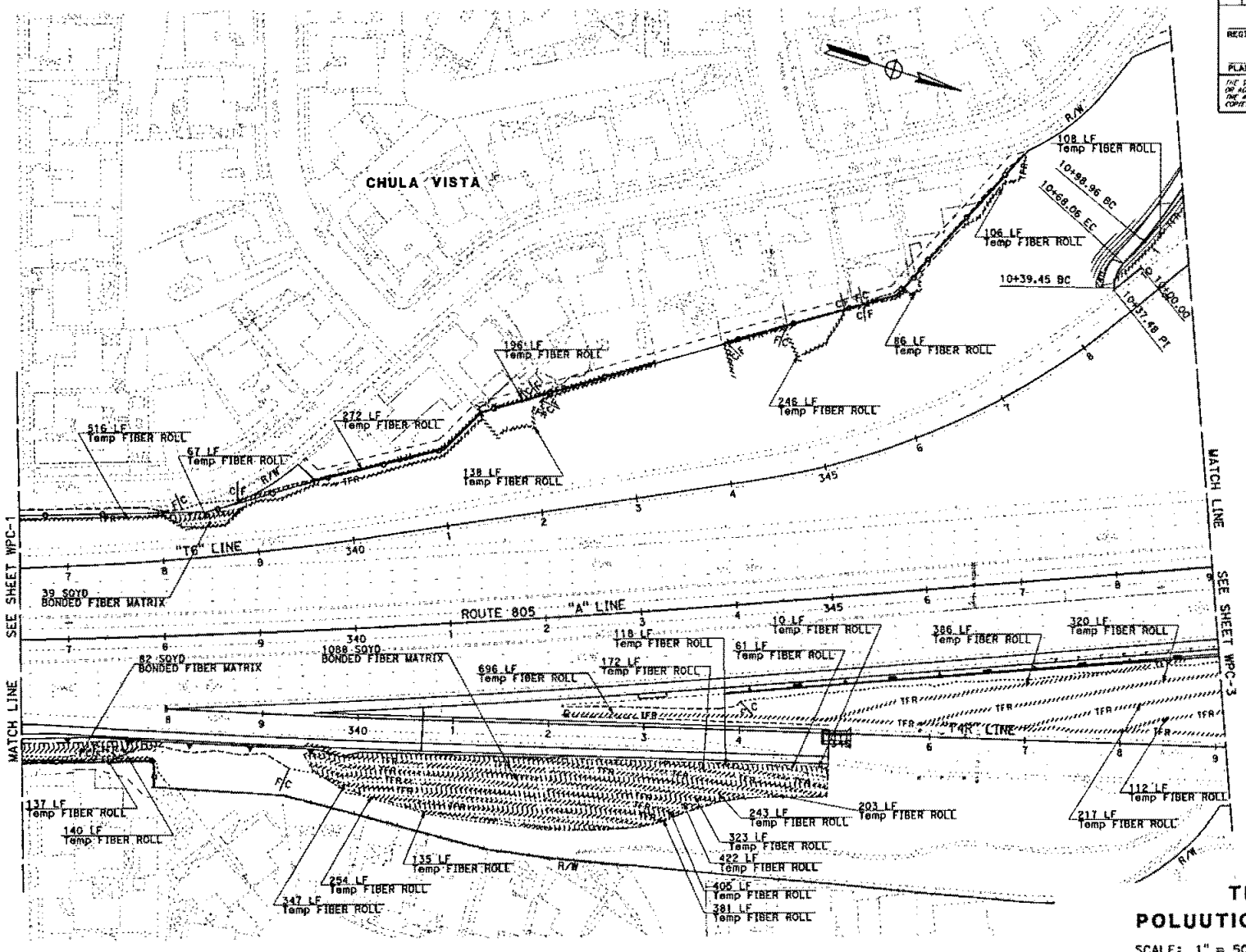
Figure WPC - 2 Temporary Water Pollution Control Plan

Figure WPC - 3 Temporary Water Pollution Control Plan

Foundation Plan No. 2 – Sweetwater River Bridge (Widen)

Figure 1 – I-805 South Sweetwater Bridge Widening Impacts to Waters of the U.S.

(Figure No.) – Stage 2 Section A-A Stage Construction



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	805	5.3/8.8		

REGISTERED CIVIL ENGINEER DATE

WALDO LOPEZ No. C58095 Exp. 6-30-16 CIVIL

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TEMPORARY WATER POLUUTION CONTROL PLAN

SCALE: 1" = 50'

WPC-2

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ARIEL MARILAO

CHECKED BY: WALDO LOPEZ

FUNCTIONAL SUPERVISOR: ROGER CARLIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans PROJECT DEVELOPMENT

LAST REVISION 01-13-16 DATE PLOTTED => 15-JAN-2016 TIME PLOTTED => 01:16

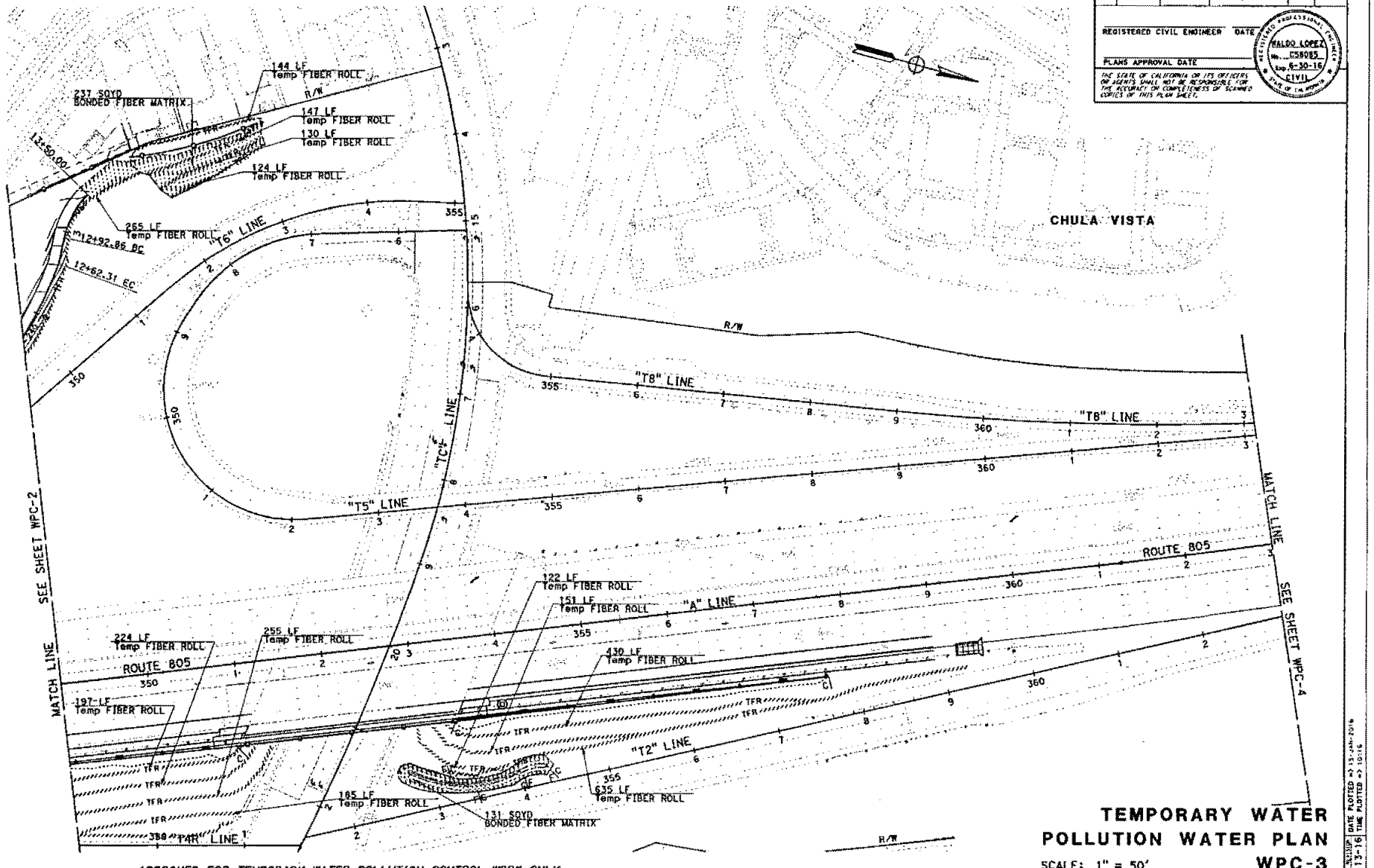
BORDER LAST REVISED 7/2/2010

USERNAME => A129110
DGN FILE => 11120002171gp0002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 2784

PROJECT NUMBER & PHASE 11120002171



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	805	5.3/8.8		

REGISTERED CIVIL ENGINEER — DATE

RALDO LOPEZ
No. C58085
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans PROJECT DEVELOPMENT

FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY	DATE REVISED
ROGER CARLIN	ARIEL MARILAO		
CHECKED BY	RALDO LOPEZ		

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

TEMPORARY WATER POLLUTION WATER PLAN

SCALE: 1" = 50'

WPC-3

BORDER LAST REVISED 7/2/2010

USERNAME => s129110
DGN FILE => 11120002171sp003.dgn

RELATIVE BORDER SCALE IS IN INCHES (0 1 2 3)

UNIT 2784

PROJECT NUMBER & PHASE 11120002171

DATE PLOTTED => 13-JAN-2016
TIME PLOTTED => 10:16

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	805		1	2

REGISTERED CIVIL ENGINEER — DATE

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER — BIN SHEN — No. C76271 — Exp. 06-30-16 — CIVIL — STATE OF CALIFORNIA

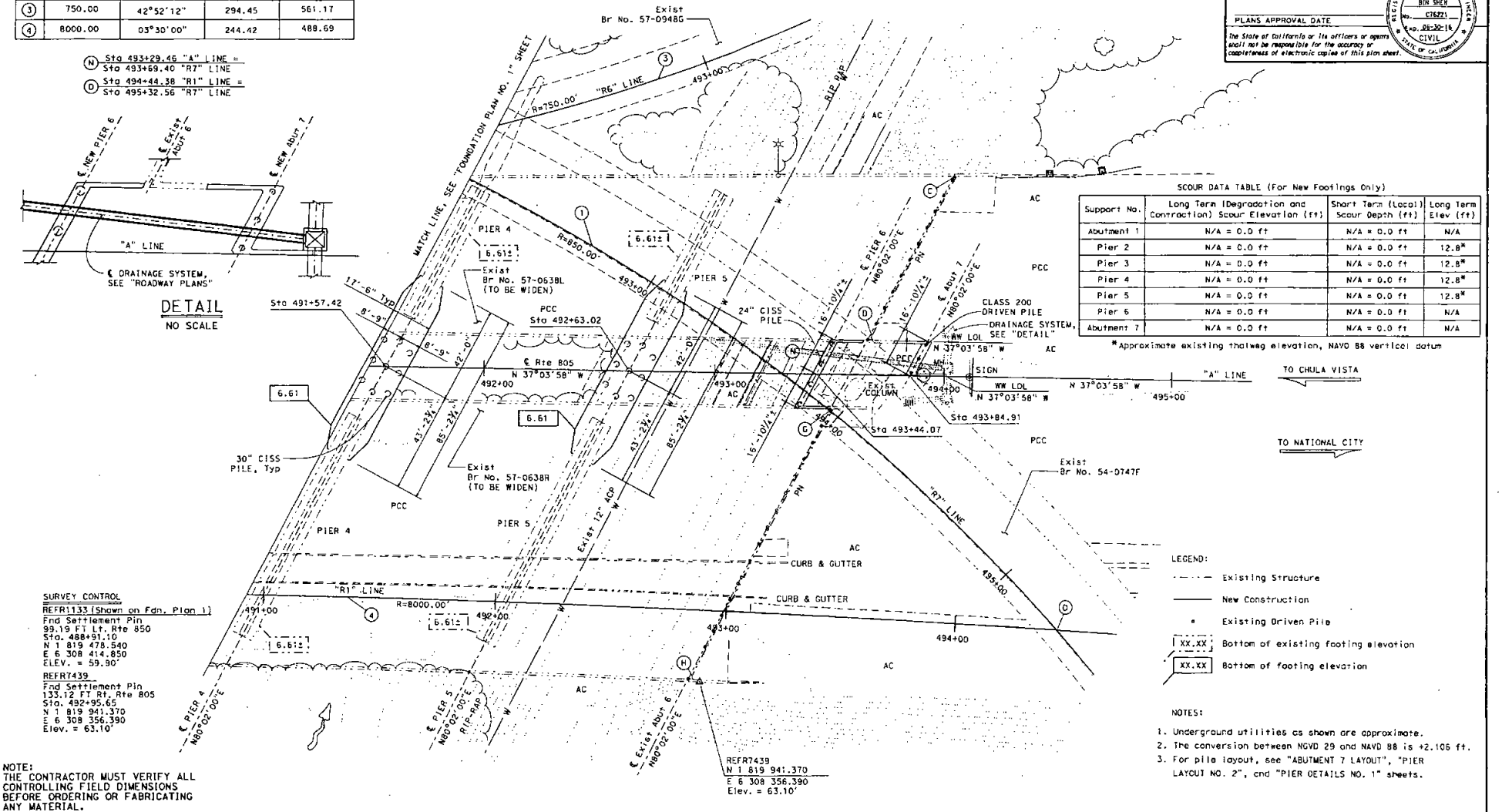
CURVE DATA				
No.	R	Δ	T	L
(1)	850.00	109°43'41"	1207.82	1627.85
(3)	750.00	42°52'12"	294.45	561.17
(4)	8000.00	03°30'00"	244.42	488.69

BRIDGE LOCATION (57-0638L)
(C) 86.84' Lt ℄ Rte 805, "A" LINE Sta 494+03.50, Elev= 62.14'+/-
(D) 17.10' Lt ℄ Rte 805, "A" LINE Sta 493+67.83, Elev= 62.94'+/-

BRIDGE LOCATION (57-0638R)
(G) 15.06' Rt ℄ Rte 805, "A" LINE Sta 493+51.30, Elev= 62.83'+/-
(H) 130.59' Rt ℄ Rte 805, "A" LINE Sta 492+92.26, Elev= 61.61'+/-

(N) Sta 493+29.46 "A" LINE = Sta 493+69.40 "R7" LINE
(D) Sta 494+44.38 "R1" LINE = Sta 495+32.56 "R7" LINE

DETAIL
NO SCALE



SCOUR DATA TABLE (For New Footings Only)

Support No.	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)	Long Term Elev (ft)
Abutment 1	N/A = 0.0 ft	N/A = 0.0 ft	N/A
Pier 2	N/A = 0.0 ft	N/A = 0.0 ft	12.8*
Pier 3	N/A = 0.0 ft	N/A = 0.0 ft	12.8*
Pier 4	N/A = 0.0 ft	N/A = 0.0 ft	12.8*
Pier 5	N/A = 0.0 ft	N/A = 0.0 ft	12.8*
Pier 6	N/A = 0.0 ft	N/A = 0.0 ft	N/A
Abutment 7	N/A = 0.0 ft	N/A = 0.0 ft	N/A

*Approximate existing thalweg elevation, NAVD 88 vertical datum

LEGEND:
- Existing Structure
- New Construction
- Existing Driven Pile
- XX.XX — Bottom of existing footing elevation
- XX.XX — Bottom of footing elevation

NOTES:
1. Underground utilities as shown are approximate.
2. The conversion between NGVD 29 and NAVD 88 is +2.106 ft.
3. For pile layout, see "ABUTMENT 7 LAYOUT", "PIER LAYOUT NO. 2", and "PIER DETAILS NO. 1" sheets.

SURVEY CONTROL

REFR1133 (Shown on Fdn. Plan 1)
Fnd Settlement Pin
99.19 FT Lt. Rte 850
Sta. 488+91.10
N 1 819 478.540
E 6 308 414.850
ELEV. = 59.90'

REFR7439
Fnd Settlement Pin
133.12 FT Rt. Rte 805
Sta. 492+95.65
N 1 819 941.370
E 6 308 356.390
Elev. = 63.10'

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

PRELIMINARY INVESTIGATION SECTION

SCALE 1"=20'	VERT.DATUM NAVD 88	PHOTOGRAMMETRY AS OF: X			
	HORZ.DATUM NAD 83 (2007)	SURVEYED	BY DISTRICT 11	CHECKED	BY DISTRICT 11
ALIGNMENT TIES Dist. Traverse Sheet		DRAFTED	BY S. ABASSY 05/2014	CHECKED	BY S. ALIVIO 06/2014

DESIGN	BY C. Sanchez	CHECKED	J. Szabo
DETAILS	BY P. Perez	CHECKED	B. Shen / C. Sanchez
QUANTITIES	BY K. Kim	CHECKED	B. Shen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 21

BRIDGE NO. 57-0638
POST MILE R8.66

SWEETWATER RIVER BRIDGE (WIDEN)
FOUNDATION PLAN NO. 2

STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3623
PROJECT NUMBER & PHASE: 1112000217-1
CONTRACT NO.: 11-272601

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES

SHEET 7 OF 66

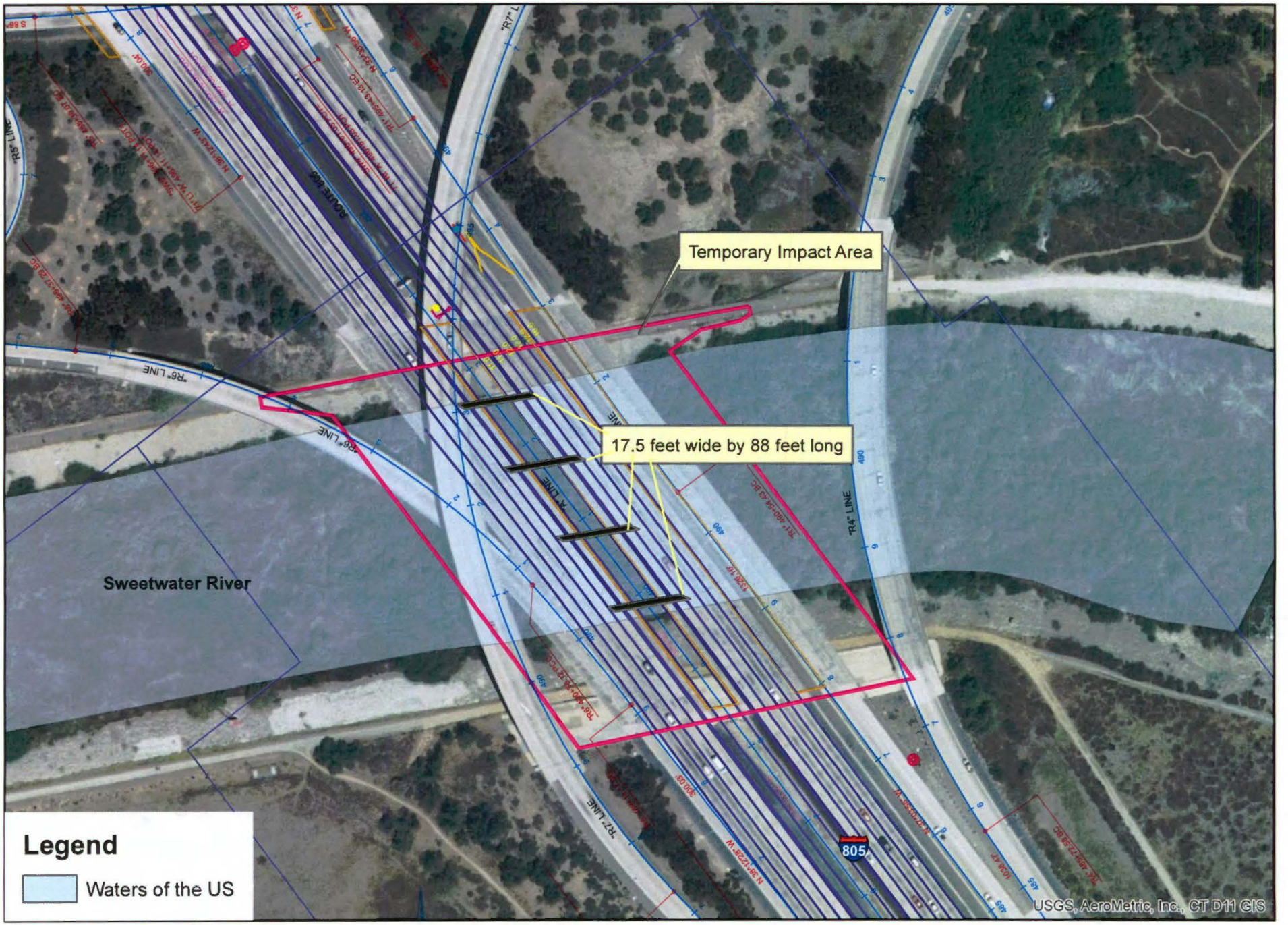
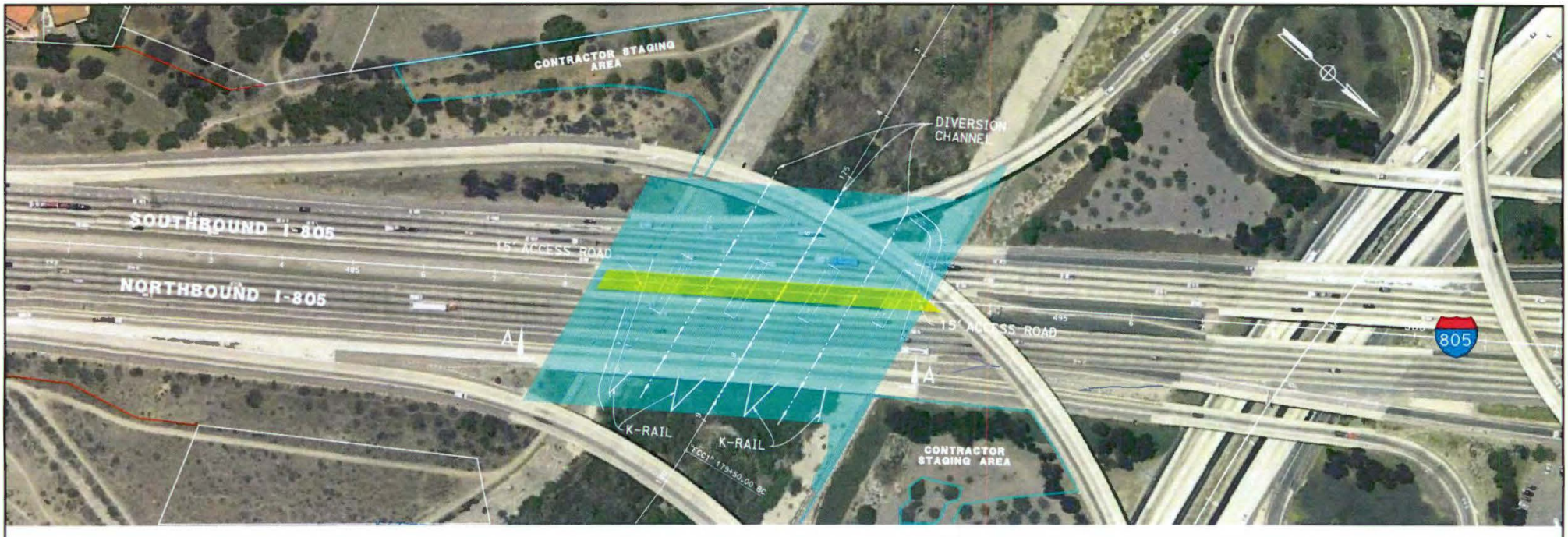


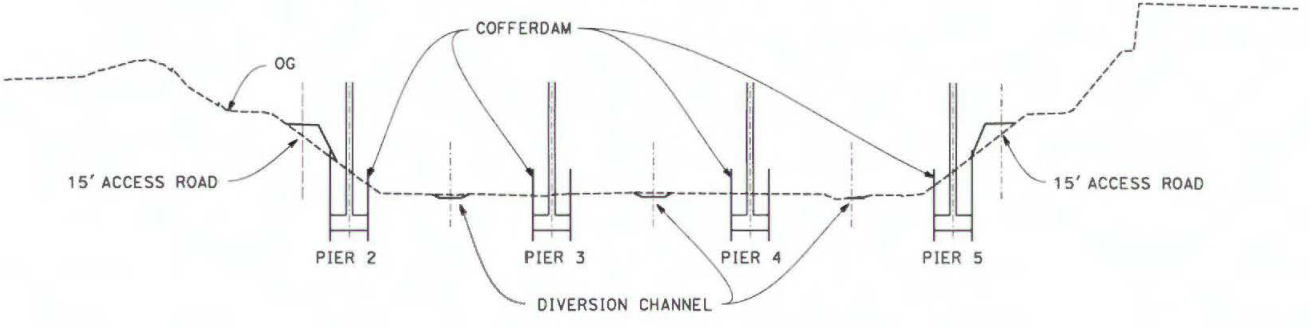
Figure 1. I-805 South Sweetwater Bridge Widening Impacts to Waters of the U.S.



DURATION 120 WORKING DAYS

1. LOW FLOW DIVERSION
2. STABILIZE AREA
3. COFFERDAM, DEWATERING
4. PIER EXCAVATION
5. PIER CONSTRUCTION
6. COFFERDAM REMOVAL

STAGE CONSTRUCTION



SECTION A-A

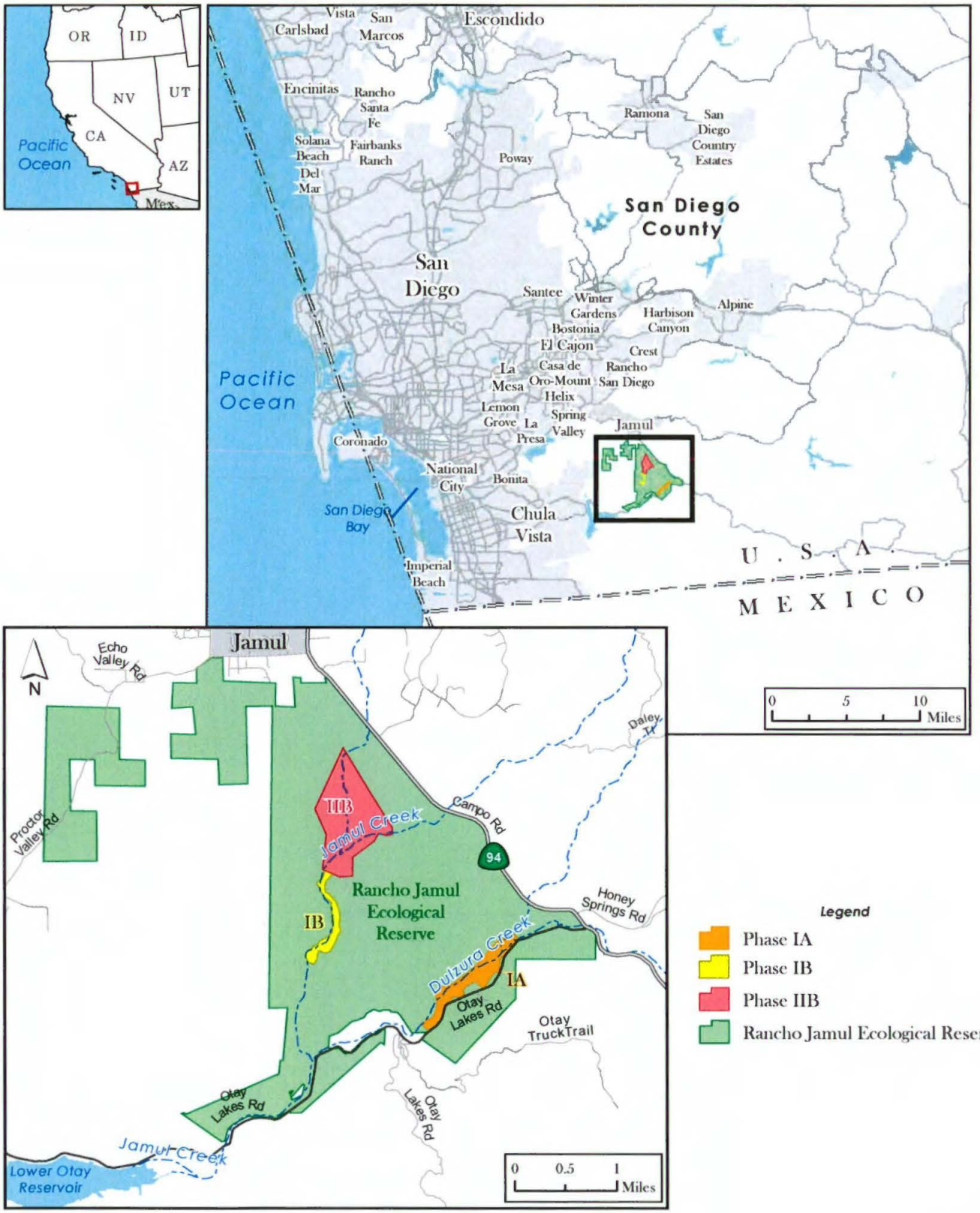
STAGE 2

ATTACHMENT 4
MITIGATION FIGURES and AGREEMENT FOR SALE

Figure 1 – Regional Vicinity, Rancho Jamul Mitigation Bank Phase IIB

Figure 2 – Rancho Jamul Ecological Reserve Property, Mitigation Bank Phase IIB

Rancho Jamul Mitigation Bank Agreement for Sale of Mitigation Credits, dated April 9th, 2012


OR
ID
NV
UT
CA
AZ
Pacific Ocean
Mex.
Vista
San Marcos
Carlsbad
Escondido
Encinitas
Rancho Santa Fe
Solana Beach
Fairbanks Ranch
Del Mar
Poway
Ramona
San Diego Country Estates
San Diego County
San Diego
Santee
Winter Gardens
Alpine
Harbison Canyon
Bostonia
El Cajon
Crest
La Mesa
Casa de Oro-Mount
Rancho San Diego
Helix
Lemon Grove
La Presa
Spring Valley
Jamul
Coronado
National City
Bonita
San Diego Bay
Chula Vista
Imperial Beach
U . S . A .
M E X I C O
0 5 10 Miles
Jamul
Echo Valley Rd
N
Proctor Valley Rd
Daley Tr
IIB
Jamul Creek
Campo Rd
94
Rancho Jamul Ecological Reserve
IB
Honey Springs Rd
Dulzura Creek
IA
Otay Lakes Rd
Otay TruckTrail
Otay Lakes Rd
Otay Lakes Rd
Jamul Creek
Lower Otay Reservoir
0 0.5 1 Miles
Legend
Phase IA
Phase IB
Phase IIB
Rancho Jamul Ecological Reserve

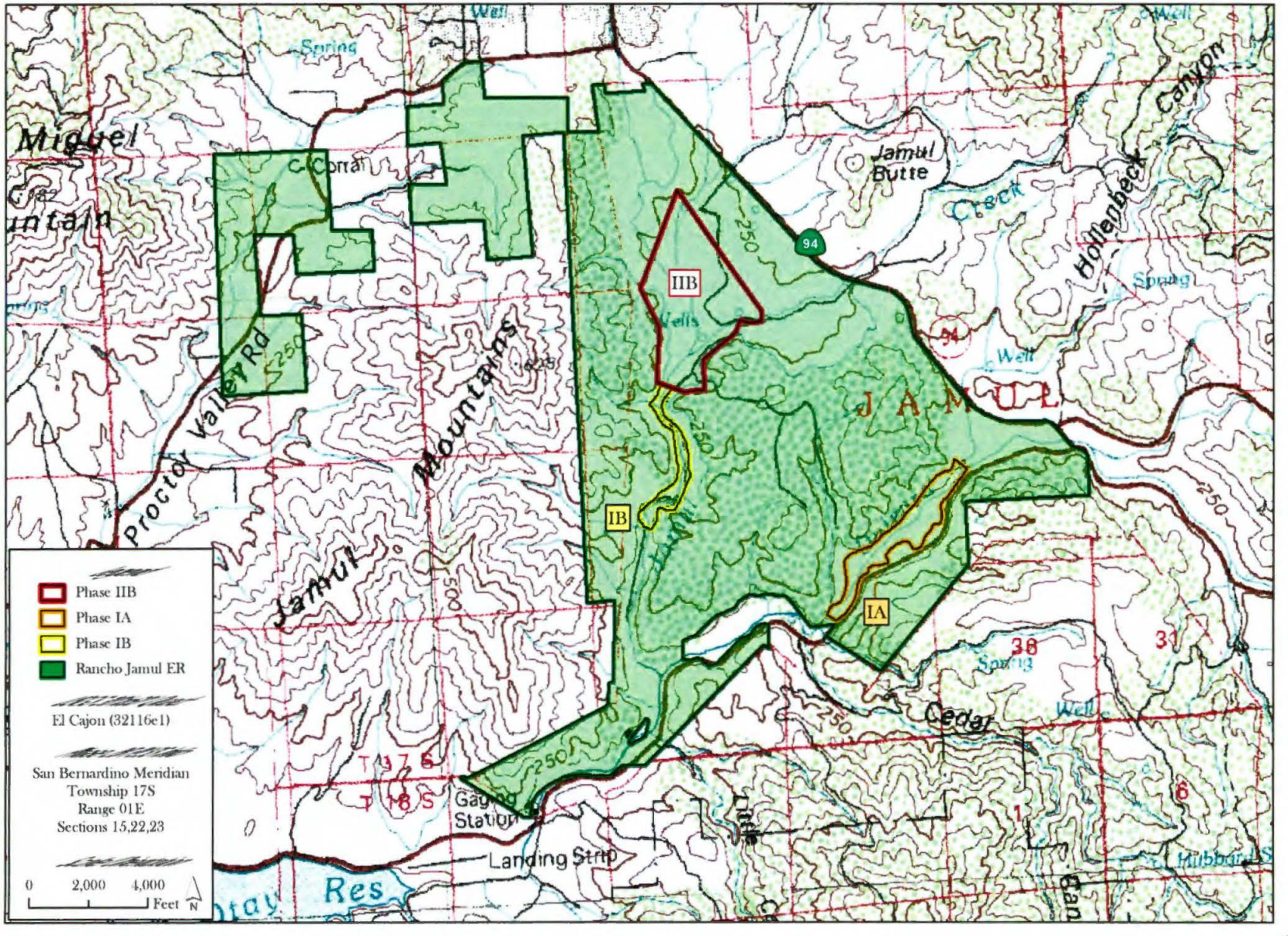


Figure 2
Rancho Jamul Ecological Reserve Property

RANCHO JAMUL MITIGATION BANK

AGREEMENT FOR SALE
OF
MITIGATION CREDITS

This Agreement is made and entered into this 9th day of April, 2012 by and between WILDLANDS, INC., a Delaware corporation (Bank) and the CALIFORNIA DEPARTMENT OF TRANSPORTATION (Project Proponent) as follows:

RECITALS

A. The Bank has developed the Rancho Jamul Mitigation Bank located in San Diego County California; and

B. The Bank has developed the Mitigation Bank under Nationwide Permit #27 Identification #982015400, issued by the United States Army Corps of Engineers (Corps) and pursuant to a Wetland Mitigation Bank Project Agreement dated November 29, 2000, and has received the approval of the Corps, California Department of Fish and Game (CDF&G), Environmental Protection Agency (EPA), and the U.S. Fish and Wildlife Service (FWS) to operate as a Mitigation Bank with compensatory credits available for sale; and

C. Project Proponent is seeking to implement the project described on Exhibit "A" attached hereto (Project), which would unavoidably and adversely impact waters of the United States or other habitats thereon, and seeks to compensate for the loss of wetland areas or other habitats by purchasing compensatory credits from Bank; and

D. Project Proponent has been authorized by FWS under Biological Opinion File No. FWS-SDG-10B0002-11F0293 to purchase 3.64 acres of Corps-jurisdictional freshwater wetland/riparian habitat credits as mitigation for unavoidable impacts to waters of the United States or other habitats associated with the Project; and

E. Project Proponent desires to purchase from Bank and Bank desires to sell to Project Proponent 3.64 acres of Corps-jurisdictional freshwater wetland/riparian habitat credits.

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

1. Bank hereby sells to Project Proponent and Project Proponent hereby purchases from Bank: 3.64 acres of Corps-jurisdictional freshwater wetland/riparian habitat credits for the purchase price of $910,000.00. The Bank will then deliver to Project Proponent an executed Bill of Sale in the manner and form as attached hereto and marked Exhibit "B". The purchase price for said credits shall be paid by check payable to "Wildlands, Inc."

2. The sale and transfer herein is not intended as a sale or transfer to Project Proponent of a security, license, lease, easement, or possessory or non-possessory interest in real property, nor the granting of any interest of the foregoing.

3. Project Proponent shall have no obligation whatsoever by reason of the purchase of the compensatory credits, to support, pay for, monitor, report on, sustain, continue in perpetuity, or otherwise be obligated or liable for the success or continued expense or maintenance in perpetuity of the credits sold, or the Bank. As required by law, Bank shall monitor and make reports to the appropriate agency or agencies on the status of any compensatory credits sold to Project Proponent. Bank shall be fully and completely responsible for satisfying any and all conditions placed on the Bank or the compensatory credits, by all state or federal jurisdictional agencies. Bank hereby shall indemnify Project Proponent of and from all such liabilities and obligations.

4. The compensatory credits sold and transferred to Project Proponent shall be nontransferable and non-assignable, and shall not be used as compensatory mitigation for any other Project or purpose, except as set forth herein.

5. Project Proponent must exercise his/her/its right to purchase within 30 days of the date of this Agreement. After the 30-day period this Agreement will be considered null and void.

IN WITNESS WHEREOF, the parties have executed this Agreement the day and year first above written.

BANK

WILDLANDS, INC., a Delaware corporation

By: _____
Name: Wildlands, Manager
Its: Mark Heintz, Manager

PROJECT PROPONENT

CALIFORNIA DEPARTMENT OF TRANSPORTATION

By: Ramon Martinez
Name: Ramon M. Martinez
Its: Project Manager

Exhibit "A"

DESCRIPTION OF PROJECT TO BE MITIGATED

Caltrans proposes to widen the existing I-805 freeway between East Palomar Street and Landis Street in the cities of San Diego, Chula Vista, and National City and portions of unincorporated San Diego County. The project will result in the construction of four buffer-separated managed lanes (two lanes in each direction) and two high occupancy vehicle (HOV) lanes (one in each direction) in the freeway median. The managed lanes will be separated from the general purpose freeway lanes by a 1.2-meter-wide (4-foot-wide) painted buffer. The project also includes the construction of a HOV/transit direct connector ramp to State Route 15 (SR-15). Additional project features include construction of in-line transit stations at the East H Street overcrossing and at the East Plaza Boulevard undercrossing and a transit station on East Palomar Street with park and ride lots and a north facing direct access ramp (DAR) at the East Palomar Street overcrossing. The project will also modify or replace some existing overcrossing and undercrossing structures and will construct noise and retaining walls at various locations. The project crosses the Sweetwater River and Chollas Creek. The total project length is approximately 18.3 kilometers (km) [11.4 miles (mi)]. Construction is proposed to begin in 2012 and be completed by 2020.

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Exhibit "B"

BILL OF SALE
Contract #RJMB-12-61
FWS File No. FWS-SDG-10B0002-11F0293

In consideration of $910,000.00, receipt of which is hereby acknowledged, WILDLANDS, INC., a Delaware corporation, does hereby bargain, sell and transfer to the CALIFORNIA DEPARTMENT OF TRANSPORTATION, 3.64 acres of Corps-jurisdictional freshwater wetland/riparian habitat credits for the Interstate 805 South Express and HOV Lanes (District 11-SD-805 [PM 4.4-15.8], EA 2E0709, PI=1112000100) Project in the Rancho Jamul Mitigation Bank in San Diego County California, developed and approved under the authority of the United States Army Corps of Engineers, California Department of Fish and Game, U.S. Fish and Wildlife Service, and the Environmental Protection Agency.

Wildlands, Inc. represents and warrants that it has good title to the credits, has good right to sell the same, and that they are free and clear of all claims, liens, or encumbrances.

Wildlands, Inc. covenants and agrees with the buyer to warrant and defend the sale of the credits hereinbefore described against all and every person and persons whomsoever lawfully claiming or to claim the same.

DATED: May 4, 2012

WILDLANDS, INC., a Delaware corporation

By: _____

Name: Wildlands Manager

Its: Steve Morgan, Manager

Caltrans District 11
I-805 South Soundwalls and Widening Project,
a portion of Phase 2 of the I-805 South Managed Lanes Project
Certification No. R9-2016-0180

ATTACHMENT 5
CEQA MITIGATION MONITORING AND REPORTING PROGRAM

ENVIRONMENTAL COMMITMENTS RECORD (ECR)
INTERSTATE 805 MANAGED LANES SOUTH PROJECT

Date: June 2011
Environmental Coordinator: Jamie Le Dent
619-688-0157

11-SD-805
PM 4.4/15.8
EA 081610

Task and Brief Description	Responsible Branch/Staff	Timing/ Phase	Action Taken to Comply with Task	Task Completed	
				Initial	Date
DESIGN KICK-OFF	Project Management / Project Delivery	Beginning of 1 phase			
ENVIRONMENTAL PS&E REVIEW	Project Management / Environmental	District PS&E Circulation			
PRECONSTRUCTION MEETING	Project Management	Contract Award			
TRANSFER RESIDENT ENGINEER BOOK	Project Engineer (RE)	Pre-construction Meeting			
PREJOB MEETING	Project Management / Construction	Construction			
ENVIRONMENTAL COMPLIANCE REVIEW	Project Management / Construction	Safety Review			
DESIGN FEATURES MEMORANDUM	Project Management / Construction	Post Construction			
PERMITS					
Section 7 Consultation - Threatened and Endangered Species	RE / Construction /Environmental	Pre-construction			
Section 404 Permit	RE / Construction / Environmental	Pre-construction			
1602 Streambed Alteration Agreement	RE / Construction / Environmental	Pre-construction			
Section 401 Water Quality Certification	RE / Construction / Environmental	Pre-construction			

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				Initial	Date
LAND USE					
During construction of the new East 22nd Street pedestrian overcrossing structure (POC), the existing POC will remain open the majority of the time for public use; if during the design phase of this Project it is determined to be impracticable to construct an adjacent POC, then the residents in the immediate area will be notified of the dates and duration of the POC closure and alternate routes that are available to cross I-805	Design / Construction	Design / Construction			
Construction activities for the East J Street and the park driveway improvements will be scheduled when street lane closures are permitted (typically nighttime hours)	Construction	Construction			
COMMUNITY IMPACTS					
Post notification at 22nd Street pedestrian overcrossing to alert users in advance of any work done	Project Management / Construction	Pre-construction			
Conduct Public Awareness Campaign	Project Management	Pre-construction / Construction			
Send construction information to neighboring schools and/or nearby recreational facilities	Project Management / Construction	Pre-construction			
Provide temporary detours for pedestrians crossing at 22nd Street	RE / Traffic / Construction	Construction			
Provide relocation resources and benefits to all displacees and treat displaces in accordance with the *Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970*	Project Management / Relocation Agent	Pre-construction			
UTILITIES/EMERGENCY SERVICES					
Traffic Management Plan for emergency vehicles	Construction	Construction			
Waste Management Plan to minimize generation of construction debris and solid waste	Construction	Construction			
Coordination with local emergency services so that public safety is not threatened	Project Management / Construction	Pre-construction / Construction			
TRAFFIC AND TRANSPORTATION/ PEDESTRIAN AND BICYCLE FACILITIES					
Install ramp meters on all entrance ramps to control volumes entering the freeway and weaving movements	RE / Traffic	Design / Construction			
Implement Traffic Management Plan	RE / Traffic	Construction			
Signalize and/or re-stripe affected intersections and roadways, where appropriate	RE / Traffic	Design / Construction			

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				Initial	Date
VISUAL/AESTHETICS					
Implement applicable landscape design guidelines in consultation with the District 11 Landscape Architect	Design / Landscape Architect	Design / Construction			
Perform mitigation monitoring of all visual mitigation requirements	Design / Landscape Architect	Design / Construction			
CULTURAL RESOURCES					
Apply an Environmentally Sensitive Area (ESA) designation to the area of site CA-SDI-19463	Project Management / Construction	Pre-construction / Construction			
If currently unknown cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature and significance of the find	Construction	Construction			
If human remains are discovered, further disturbances and activities would cease in any area or nearby area suspected to overlie remains, and the County Coroner would be contacted. If remains are thought to be Native American, the coroner will notify the NAHC, which will then notify the Most Likely Descendent (MLD). At this time, the person who discovered the remains will contact the Caltrans District Archaeologist so that she may work with the MLD on the respectful treatment and disposition of the remains	Construction	Construction			
HYDROLOGY AND FLOODPLAIN					
Detailed drainage reports based on final Project design parameters, including appropriate design, sizing, and location of proposed storm drain facilities; and continued consultation with applicable federal, state, and local agencies	Design / Construction	Design / Construction			
Design all proposed on-site storm drain facilities to accommodate anticipated peak flows from a 25-year storm event and modifications to off-site storm drain facilities (e.g., cross drains) to accommodate anticipated peak flows from a 100-year storm event, pursuant to applicable Caltrans requirements	Design / Construction	Design / Construction			
Design applicable Project storm drain outlets to include appropriately sized energy dissipation structures (e.g., riprap aprons) to reduce flow velocities prior to discharging into natural water courses	Design / Construction	Design / Construction			
Avoid potential encroachment associated with travel lane extensions north of Bonita Road by constructing retaining wall along the top of the adjacent embankment slope	Design / Construction	Design / Construction			
Construct the proposed abutment structure at the Sweetwater River Bridge on the north side of the channel outside of mapped floodplain boundaries	Design / Construction	Design / Construction			

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Task and Brief Description	Responsible Branch/Staff	Timing/ Phase	Action Taken to Comply with Task	Task Completed	
				Initial	Date
HYDROLOGY AND FLOODPLAIN (cont.)					
Line up proposed Sweetwater River Bridge pier wall extensions with the existing pier walls and parallel to the flow direction	Design / Construction	Design / Construction			
Conduct enlargement of the pile caps beneath the Sweetwater River Bridge pier walls completely below grade	Design / Construction	Design / Construction			
WATER QUALITY AND STORM WATER RUNOFF					
Implement an approved Storm Water Pollution Prevention Plan	Construction / RE	Design / Construction			
Implement standard Best Management Practices (BMPs) listed in Project *Water Quality Report* and Storm Water Data Reports	Design / Construction	Design / Construction			
Implement construction-related hazardous materials BMPs	Design / Construction	Design / Construction			
Implement erosion/sediment control BMPs	Design / Construction	Design / Construction			
Implement design pollution prevention BMPs	Design / Construction	Design / Construction			
Implement treatment BMPs	Design / Construction	Design / Construction			
Implement maintenance BMPs	Maintenance	Maintenance			
GEOLOGY/SOILS/SEISMIC/TOPOGRAPHY					
Conduct detailed subsurface exploration and laboratory testing to assess subsurface conditions in proposed development areas, as necessary	Design / Construction	Design / Construction			
Potential impacts related to seismic ground acceleration will be addressed/ avoided through efforts such as: (1) conformance with applicable seismic parameters from sources, including Department standards and the IBC/CBC; (2) use of properly engineered fill; (3) appropriate foundation and pavement design; (4) use of properly reinforced concrete and masonry; and (5) appropriate structure and utility design	Design / Construction	Design / Construction			
Potential liquefaction and seismic settlement effects will be addressed/ avoided through efforts such as: (1) conformance with applicable seismic parameters from sources, including Caltrans standards and the IBC/CBC; (2) removal and recompaction or replacement of materials susceptible to liquefaction or seismic settlement with engineered fill; (3) in-place soil and/or structural modifications such as compaction grouting, soil mixing, dynamic compaction, or driving piles below liquefiable layers; and (4) use of subdrains in appropriate areas	Design / Construction	Design / Construction			

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Task and Brief Description	Responsible Branch/Staff	Timing/ Phase	Action Taken to Comply with Task	Task Completed	
				Initial	Date
GEOLOGY/SOILS/SEISMIC/TOPOGRAPHY (cont.)					
Potential impacts related to manufactured slope/excavation instability hazards will be addressed/avoided through efforts such as: (1) limitation of individual manufactured slope grades per geotechnical recommendations; (2) use of proper BMPs related to landscaping, erosion/sedimentation and drainage controls as identified in Subchapters 2.8 and 2.9; and (3) conformance with applicable Caltrans, OSHA and Cal/OSHA standards (e.g., limiting slope grades and incorporating appropriate shoring)	Design / Construction	Design / Construction			
Potential impacts related to the instability of retaining walls will be addressed/avoided through efforts such as: (1) use of appropriate footing and foundation design per geotechnical recommendations; (2) use of appropriate stabilizing techniques such as soil nail, tieback and/or mechanically stabilized earth (MSE) walls; (3) conformance with appropriate recommendations and regulatory/industry standards regarding wall design and loading; and (4) provision of appropriate drainage	Design / Construction	Design / Construction			
Expansive or compressive characteristics in surficial materials will be addressed/avoided through efforts such as: (1) removal and recompaction or replacement of unsuitable soils with engineered fill; (2) selective placement and/or capping of expansive soils; (3) use of subdrains and moisture conditioning in areas of expansive soils; (4) soil mixing and use of specially designed foundations or slabs in areas of expansive deposits; (5) use of in-place soil modifications in areas of compressible soils (as described above for liquefaction/seismic settlement); (6) surcharging of compressible materials left in place to accelerate consolidation rates; and (7) implementation of settlement monitoring periods/monuments in areas of compressible soils	Design / Construction	Design / Construction			
Potential impacts associated with corrosive soils will be addressed/avoided through efforts such as: (1) removal of unsuitable deposits and replacement with non-corrosive fill, (2) use of corrosion-resistant construction materials and (3) installation of cathodic protection devices	Design / Construction	Design / Construction			
Potential impacts related to oversize materials will be addressed/avoided through efforts such as screening and removal (e.g., off-site disposal) of materials unsuitable for use in on-site fills, selective burial of oversize materials in deeper fills, or crushing to appropriate size for use in on-site fill	Design / Construction	Design / Construction			
Potential impacts related to scour at the Sweetwater River Bridge will be addressed/avoided through conformance with associated geotechnical recommendations, including efforts such as the use of: (1) riprap revetments at bents 2, 3 and 4; and (2) grouted riprap along reconstructed portions of the channel banks	Design / Construction	Design / Construction			

ENVIRONMENTAL COMMITMENTS RECORD (ECR)
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Task and Brief Description	Responsible Branch/Staff	Timing/ Phase	Action Taken to Comply with Task	Task Completed	
				Initial	Date
PALEONTOLOGY					
Prepare and implement a Paleontological Mitigation Plan (PMP)	Project Management	Pre-construction			
A qualified principal paleontologist (M.S. or Ph.D. in paleontology or geology, and familiar with paleontological procedures and techniques) will be retained to be present at pre-grading meetings to consult with grading and excavation contractors	Project Management	Pre-construction			
Provide grading plans to the Project paleontologist at least one week prior to the initiation of earth-moving activities	Project Management	Pre-construction			
A paleontological monitor, under the direction of the qualified paleontologist, will be on site on a full-time basis during the original cutting of previously undisturbed deposits with high or moderate paleontological resource potential (i.e., the Bay Point, Lindavista, and San Diego formations) to inspect exposures for contained fossils	RE / Paleontologist	Construction			
If fossils are discovered, the paleontologist (or paleontological monitor) will recover them. Construction work in these areas will be halted or diverted to allow recovery of fossil remains in a timely manner	RE / Paleontologist	Construction			
During the monitoring and recovery phases of the PMP, the paleontologist and/or paleontological monitor will also routinely collect stratigraphic data to provide an adequate stratigraphic context for any recovered fossils	Paleontologist	Construction			
Fossil remains collected during the monitoring and salvage portion of the mitigation program will be cleaned, repaired, sorted, and cataloged	Paleontologist	Construction			
Prepared fossils, along with copies of all pertinent field notes, photos and maps, will then be deposited in a scientific institution with paleontological collections	Paleontologist	Construction			
A final report will be completed that outlines the results of the mitigation program	Paleontologist	Construction / Post-construction			

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Task and Brief Description	Responsible Branch/Staff	Timing/ Phase	Action Taken to Comply with Task	Task Completed	
				Initial	Date
HAZARDOUS WASTE/MATERIALS					
Conduct sampling characterize soil and/or groundwater in areas of concern prior to Caltrans' property acquisition and disturbance of soil if: ▪ Staining, dumping, or other evidence of a release to the ground water surface was observed during site reconnaissance; ▪ The current nature of the business on the site (e.g., gas station, auto repair, etc.), or the historical use of the property indicates on-site hazardous waste/materials generators/users; or ▪ Previous agricultural usage of the site indicates the potential for residual pesticides, herbicides, insecticides, or agriculturally related hazardous waste/materials storage/ staging or application	RE / Contractor	Pre-construction			
Conduct shallow soil sampling in the proposed area of improvements prior to commencement of excavation activities to determine if lead is present in the soil, and the concentration and areal extent	Contractor	Pre-construction			
Remove and dispose of wastes and potentially hazardous wastes on site, including municipal trash, discarded appliances, old tires, and equipment, prior to commencement of excavation activities	RE / Contractor	Pre-construction			
If treated wood is present on the Project site and will be removed during construction, it will be characterized, managed, and disposed of in accordance with applicable DTSC Treated Wood Waste regulations	RE / Construction	Construction			
Prior to commencement of excavation activities, a Site and Community Health and Safety Plan will be prepared to manage potential health and safety hazards to workers and the public	Contractor	Pre-construction			
Prior to commencement of excavation activities, a Soil Management Plan will be prepared to address the notification, monitoring, sampling, testing, handling, storage, and disposal of contaminated media or substances that may be encountered during construction activities	Contractor	Pre-construction			
If groundwater is anticipated to be encountered during subsurface activities, a Groundwater Management Plan will be prepared prior to commencement of excavation activities to address the notification, monitoring, sampling, testing, handling, storage, and disposal of potentially contaminated groundwater	RE / Contractor	Pre-construction/ Construction			
Contract specifications would include references to the potential to encounter contaminated soil, groundwater, or other regulated wastes during Project construction	RE	Pre-construction			
Further assessment will be performed at the Project site if soil suggestive of contamination or other potential environmental issues is encountered during Project construction	RE / Contractor	Construction			

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				Initial	Date
HAZARDOUS WASTE/MATERIAL (cont.)					
The City of San Diego Local Enforcement Agency will be contacted prior to disturbance of soil in areas suspected of being associated with historical burn sites or dumping	RE	Pre-construction			
Prior to renovation or demolition of bridge components, surveys will be conducted of affected bridges to evaluate the presence, locations, and quantities of asbestos-containing materials. Suspect materials, including bridge joints and piping material, will be sampled and analyzed, and if present, appropriate abatement actions will be implemented in accordance with applicable regulatory requirements	RE / Contractor	Pre-construction / Construction			
Prior to disturbance of any painted surfaces, sampling will be performed to assess the presence of lead. Suspect surfaces, including guardrails, piping, and pavement striping, will be sampled and analyzed, and if present, appropriate abatement actions shall be implemented in accordance with applicable regulatory requirements. A Lead Compliance Plan is required prior to any paint stripe removal	RE / Contractor	Pre-construction / Construction			
Soil subject to export will be characterized to assess the appropriate waste classification consistent with the requirements of the permitted disposal facility	RE / Contractor	Pre-construction / Construction			
AIR QUALITY					
The construction contractor will comply with Caltrans' Standard Specifications Section 7-1.01F and Section 10 of Caltrans' Standard Specifications (2006)	RE / Construction	Construction			
Water or dust palliative will be applied to exposed soil surfaces at the Project site as frequently as necessary to control fugitive dust emissions	RE / Construction	Construction			
Soil binder will be spread on any unpaved roads used for construction purposes, and all construction parking areas	RE / Construction	Construction			
Trucks will be washed off as they leave the Project site as necessary to control fugitive dust emissions	RE / Construction	Construction			
Construction equipment and vehicles will be properly tuned and maintained. Low sulfur fuel would be used in all construction equipment, as provided in California Code of Regulations Title 17, Section 93114	RE / Construction	Construction			
A dust control plan will be developed to document sprinkling, temporary paving, speed limits, and expedited revegetation of disturbed slopes as needed to minimize construction impacts to existing communities	RE / Construction	Construction			
Equipment and materials storage areas will be located as far away from residential, school, and park uses as practical	RE / Construction	Construction			

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				Initial	Date
AIR QUALITY (cont.)					
Extended idling of diesel equipment will be prohibited, to the extent that is feasible	RE / Construction	Construction			
Track-out reduction measures such as gravel pads will be used at access points to minimize dust and mud deposits on roads affected by construction traffic	RE / Construction	Construction			
Transported loads of soils and wet materials will be covered, or adequate freeboard (space from the top of the material to the top of the truck) will be provided to reduce PM_{10} and deposition of particulate during transportation	RE / Construction	Construction			
Dust and mud that are deposited on paved, public roads due to construction activity and traffic will be removed to decrease particulate matter	RE / Construction	Construction			
To the extent feasible, construction traffic will be routed and scheduled to reduce congestion and related air quality impacts caused by idling vehicles along local roads during peak travel times	RE / Construction	Construction			
Mulch or plant vegetation will be installed as soon as practical after grading to reduce windblown particulates in the area	RE / Construction	Construction			
NOISE					
The following noise control measures will be implemented during Project construction: ▪ Compliance with Caltrans' Standard Specifications 7-1.011 (May 2006) Sound Control Requirements ▪ Ensure that all equipment items have the manufacturers' recommended noise abatement measures, such as mufflers, engine enclosures, and engine vibration isolators, intact and operational ▪ All construction equipment would be inspected at periodic intervals to ensure proper maintenance and presence of noise control devices (e.g., mufflers and shrouding, etc.) ▪ Idling equipment will be turned off ▪ A construction noise monitoring program will be implemented ▪ Noisier operations will be performed during the times least sensitive to receptors ▪ The community will be informed of anticipated construction activities and schedules	RE / Construction	Pre-construction / Construction			
Construction noise abatement (TBD)	RE / Design	Design / Construction			

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				Initial	Date
ENERGY					
To the extent feasible, construction traffic will be routed and scheduled to reduce congestion and related air quality impacts caused by idling vehicles along local roads during peak travel times. TMP strategies will be implemented to minimize delay for existing traffic during construction	RE / Constriction	Construction			
Construction equipment and vehicles will be properly tuned and maintained. Low sulfur fuel will be used in all construction equipment as provided in CCR Title 17, Section 93114	RE / Construction	Construction			
To the extent feasible, existing materials will be reused and incorporated into the proposed facilities	RE / Construction	Construction			
Where possible, use drought-tolerant plants to reduce the need for irrigation and the likelihood of invasive species	Design / Landscape Architect	Design / Construction			
Include proposed features to reduce long-term maintenance needs of the Project, which reduce the long-term use of resources. These include such items as concrete median barriers, overhead video-based detection, and interconnecting light signals to increase efficiency	RE / Design	Design / Construction			
NATURAL COMMUNITIES					
All native or sensitive habitats outside the permanent and temporary construction limits will be designated as ESAs on Project maps. ESAs will be temporarily fenced with orange plastic snow fence. No personnel, debris, or equipment will be allowed within the ESAs	RE / Construction	Pre-construction / Construction			
A qualified biologist will be available for both the pre-construction and construction phases to review grading plans, address protection of special status biological resources, and monitor ongoing work. The biologist will be familiar with the habitats, plants, and wildlife of the Project area, and maintain communications with the resident engineer, to ensure that issues relating to biological resources are appropriately and lawfully managed	RE / Construction	Pre-construction / Construction			
Cut slopes adjacent to native habitats will be revegetated with native upland habitats with compositions similar to those within the BSA. Fill slopes will be revegetated with appropriate native upland species. The revegetated areas will have temporary irrigation and be planted with native container plants and seeds selected by the biologist. There will be at least three years of plant establishment/maintenance on these slopes to control invasive weeds. Bioswales will be planted with appropriate native species as determined by the biologist and storm water pollution prevention professional	RE / Construction	Construction			
Duff from areas with coastal sage scrub and chaparral will be saved to aid in revegetating slopes with native species	RE / Construction	Construction			

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				Initial	Date
NATURAL COMMUNITIES (cont)					
All temporary impacts to native and sensitive habitats will be revegetated and restored to pre-existing conditions. Plants salvaged from construction areas would be placed on created slopes or in an off-site mitigation area	RE / Construction	Construction / Post-construction			
Permanent impacts to sensitive upland communities will be mitigated by preservation of coastal sage scrub and maritime succulent scrub at the Sage Hill and Mendocino Preserves, located in Elfin Forest in northern San Diego County. Coastal sage scrub, disturbed coastal sage scrub, coastal sage/chaparral, and maritime succulent scrub will be mitigated at a 2:1 ratio. Southern mixed chaparral and disturbed southern mixed chaparral would be mitigated at a 1:1 ratio	Qualified Biologist	Pre-construction			
Fugitive dust will be minimized through the application of water or chemical palliatives to active construction areas and unpaved surfaces	RE / Construction	Construction			
Plant species on the California Invasive Plant Council (Cal-IPC) List will not be used in Project landscaping	RE / Design	Construction			
Construction or operational night lighting will be shielded and directed away from native habitat	RE / Construction	Construction			
Implement site design and construction-related BMPs, including: ▪ Installing erosion and sediment control devices such as silt fences, fiber rolls, bonded fiber matrix, mulching, and gravel bags in appropriate locations; ▪ Placing temporary filters at storm drain inlets (e.g., gravel bags/filter fabric) ▪ Stabilizing construction entrances; ▪ Designating containment areas for material storage (e.g., covering/berming of soil stockpiles);	RE / Construction	Pre-construction / Construction			
▪ Providing containment areas for solid waste storage and concrete washout; and ▪ Using energy dissipators in appropriate locations	RE / Construction	Pre-construction / Construction			
WETLANDS AND OTHER WATERS					
Mitigation for all impacts to wetland habitats will be completed by purchasing wetland credits from the Rancho Jamul Mitigation Bank. All wetland permanent impacts will be mitigated at a 1:1 ratio at the approved mitigation bank.	Qualified Biologist	Pre-construction			
All debris from the expansion of bridges will be contained so that it does not fall into rivers and creeks	RE / Construction	Construction			
Bioswales will be placed on many of the slopes to treat runoff from the freeway	RE / Construction	Construction			

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WETLANDS AND OTHER WATERS (cont.)					
Appropriate BMPs will be used to control erosion and sedimentation. No sediment or debris will be allowed to enter the vernal pools, creeks, rivers, or other drainages	RE / Construction	Pre-construction / Construction			
Fueling of construction equipment will only occur at a designated area at a distance greater than 100 feet from drainages and associated plant communities to preclude adverse water quality impacts. Fuel cans and fueling of tools will not occur within drainages	RE / Construction	Construction			
PLANT SPECIES					
The coast barrel cactus may be salvaged and replanted within the right-of-way (R/W) or at a mitigation site	RE / Construction	Construction			
Seeds from the San Diego sunflower removed during construction may be collected prior to brushing activities for use in revegetation efforts	RE / Construction	Construction			
ANIMAL SPECIES					
All non-native shrubs and trees within the impact areas will be removed outside of the breeding season (February 15 to August 31) to avoid impacts to nesting birds. Otherwise, a qualified biologist will thoroughly survey all vegetation prior to removal during the breeding season to ensure there are no nesting birds within the impact area. If nesting birds are identified within the impact area, vegetation removal will be delayed until the nest no longer supports eggs or chicks	RE / Contractor	Pre-construction / Construction			
Exclusion devices will be installed on bridge drain holes and ledges during the non-breeding season (September 1 through February 15) to prevent swallows, swifts, and any other birds or bats from nesting on or within bridges to be expanded. A qualified biologist will survey the bridges prior to installation of exclusion devices to prevent trapping of birds or bats and prior to work on the bridges to confirm that the devices have prevented use and that no birds or bats will be affected by the bridge work.	RE / Construction	Pre-construction / Construction			
Lighting used at night for construction will be shielded away from ESAs	RE / Construction	Construction			
THREATENED AND ENDANGERED SPECIES					
The Project Biologist will be on site during: a) initial clearing and grubbing; and b) weekly during project construction within 152.4 meters (m) [500 feet (ft)] of offsite gnatcatcher and wetland habitat to ensure compliance with all conservation measures. The Project Biologist will be familiar with the habitats, plants, and wildlife in the project area to ensure that issues relating to biological resources are appropriately and lawfully managed.	Qualified Biologist	Pre-construction / Construction			

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THREATENED AND ENDANGERED SPECIES (cont.)					
The Project Biologist will perform a minimum of three focused surveys, on separate days, to determine the presence of gnatcatchers in the project impact footprint. Surveys will begin a maximum of 30 days prior to performing vegetation clearing/grubbing and one survey will be conducted the day immediately prior to the initiation of remaining work. If any gnatcatchers are found within the project impact footprint, the Project Biologist will direct construction personnel to begin vegetation clearing/grubbing in an area away from the gnatcatchers. In addition, the Project Biologist will walk ahead of clearing/ grubbing equipment to flush birds towards areas of coastal sage scrub to be avoided. It will be the responsibility of the Project Biologist to ensure that gnatcatchers will not be injured or killed by vegetation clearing/grubbing. The Project Biologist will also record the number and location of gnatcatchers disturbed by vegetation clearing/grubbing. Caltrans will notify the CFWO at least seven days prior to vegetation clearing/grubbing to allow the CFWO to coordinate with the Project Biologist on bird flushing activities	Qualified Biologist	Pre-construction / Construction			
The Project Biologist will oversee installation of and inspect the construction fencing and erosion control measures within or up-slope of adjacent native habitat areas a minimum of once per week to ensure that any breaks in the fence or erosion control measures are repaired immediately.	Qualified Biologist	Pre-construction / Construction			
The Project Biologist will periodically monitor the work area to ensure that work activities do not generate excessive amounts of dust.	Qualified Biologist	Pre-construction / Construction			
The Project Biologist will train all contractors and construction personnel on the biological resources associated with the projects and ensure that training is implemented by construction personnel. At a minimum, training will include: 1) the purpose for resource protection; 2) a description of the sensitive resources and their habitats; 3) the conservation measures that should be implemented during project construction to conserve the sensitive resources, including strictly limiting activities, vehicles, equipment, and construction materials to the fenced project footprint to avoid sensitive resource areas in the field (i.e., avoided areas delineated on maps or on the project site by fencing); 4) environmentally responsible construction practices; 5) the protocol to resolve conflicts that may arise at any time during the construction process; and 6) the general provisions of the Act, the need to adhere to the provisions of the Act, and the penalties associated with violating the Act.	Qualified Biologist	Pre-construction / Construction			

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THREATENED AND ENDANGERED SPECIES (cont.)					
The Project Biologist will halt work, if necessary, and confer with the CFWO to ensure the proper implementation of species and habitat protection measures. The Project Biologist will report any non-compliance issue to the CFWO within 24 hours of its occurrence.	Qualified Biologist	Construction			
The Project Biologist will submit monthly email reports (including photographs of impact areas) to Caltrans and the CFWO during clearing of gnatcatcher habitat and project construction. The monthly reports will document that authorized impacts were not exceeded and general compliance with all conditions. The reports will also outline the location of construction activities, the type of construction that occurred, and equipment used. These reports will specify numbers, locations, and sex of gnatcatchers (if observed), observed gnatcatcher behavior (especially in relation to construction activities), and remedial measures employed to avoid and minimize impacts to gnatcatchers. Raw field notes should be available upon request by the CFWO.	Qualified Biologist	Construction			
The Project Biologist will submit a final report to the CFWO within 120 days of project completion that includes: photographs of habitat areas that were to be avoided and other relevant summary information documenting that authorized impacts were not exceeded and that general compliance with all conservation measures was achieved. As-built construction drawings with an overlay of habitat that was impacted and avoided will be provided as well once they have been completed.	Qualified Biologist	Construction / Post-construction			
All native or sensitive habitats outside and adjacent to the permanent and temporary construction limits will be designated as Environmentally Sensitive Areas (ESAs) on project maps. ESAs will be temporarily fenced during construction with orange plastic snow fence, or in areas of permanent flowing water, with stakes and flagging. No personnel, equipment or debris will be allowed within the ESAs. Fencing and flagging will be installed in a manner that does not impact habitats to be avoided and such that it is clearly visible to personnel on foot and operating heavy equipment. Caltrans will submit to the CFWO for approval, at least five days prior to initiating project impacts (except for impacts resulting from clearing to install temporary fencing), the final plans for initial clearing and grubbing of habitat and project construction. These final plans will include photographs that show the fenced and flagged limits of impact and all areas to be impacted or avoided. If work occurs beyond the fenced or demarcated limits of impact, all work will cease until the problem has been remedied to the satisfaction of the CFWO. Temporary construction fencing will be removed upon project. completion.	Qualified Biologist	Construction / Post-construction			

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THREATENED AND ENDANGERED SPECIES (cont.)					
All pile driving for the project that will occur near habitats that support gnatcatchers will be conducted between September 1 and February 14 (or sooner than September 1 if the Project Biologist demonstrates to the satisfaction of the CFWO that all nesting is complete) to avoid the gnatcatcher breeding season and to minimize construction noise impacts to nesting gnatcatchers.	Qualified Biologist / RE / Construction	Pre-construction / Construction			
Erosion and sediment control devices used for the proposed project, including fiber rolls and bonded fiber matrix, will be made from biodegradable materials such as jute, with no plastic mesh, to avoid creating a wildlife entanglement hazard.	RE / Construction	Construction			
Appropriate best management practices (BMPs) will be used to control erosion and sedimentation. No sediment or debris will be allowed to enter creeks, rivers, or other drainages. All debris from the expansion of bridges will be contained so that it does not fall into rivers and creeks.	RE / Construction	Construction			
The project will construct detention basins in some of the loop ramps, and bioswales will be placed on many of the slopes to treat runoff from the freeway.	RE / Construction	Construction			
Caltrans will ensure that project landscaping does not include alien plant species listed on the California Invasive Plant Council's (Cal-IPC) "Invasive Plant Inventory" list. A copy of the complete list can be obtained from Cal-IPC's web site at http://www.cal-ipc.org.	Design / Landscape Architect	Design / Construction			
Several invasive weed species currently grow within the R/W along I-805. Special care will be taken during transport, use, and disposal of soils containing invasive weed seeds. All heavy equipment will be washed and cleaned of debris prior to entering a new area to minimize the spread of invasive weeds.	RE / Construction	Construction			
Cut slopes adjacent to native habitats will be revegetated with native upland habitats with similar composition to those within the project study area. Fill slopes and areas adjacent to wetlands and drainages will be revegetated with appropriate native upland and wetland species. The revegetated areas will have temporary irrigation and will be planted with native container plants and seeds selected by the Project Biologist. At least 3 years of plant establishment/maintenance on these slopes is needed to control invasive weeds. Bioswales will be planted with appropriate species as determined by the Project Biologist and storm water pollution prevention professional.	Qualified Biologist / RE / Construction	Construction			
Duff from areas with coastal sage scrub and chaparral will be saved to aid in revegetating slopes with native species.	Construction	Construction			

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THREATENED AND ENDANGERED SPECIES (cont.)					
Rare plants will be salvaged where practicable for use in revegetation efforts.	Construction	Construction			
All temporary impact areas will be revegetated and restored to pre-existing conditions. Prior to initiating project impacts, a restoration plan will be developed for the temporary impact areas. The plan will be submitted to the CFWO for review and approval. This plan will include a detailed description of restoration methods, slope stabilization, and erosion control, criteria for restoration to be considered successful, and monitoring protocol(s). Following the completion of construction activities, the restoration plan will be implemented for a minimum of five years, unless success criteria are met earlier and all artificial water has been off for at least two years.	Landscape Architect / RE / Construction	Pre-construction / Construction / Post-Construction			
Landscaping will not use plants that require intensive irrigation, fertilizers, or pesticides adjacent to preserve areas, and water runoff from landscaped areas will be directed away from adjacent native habitats and contained and/or treated within the development footprint.	Landscape Architect / RE / Construction	Pre-construction / Construction			
Caltrans will submit a draft list of species to be included in the landscaping to the CFWO for approval. Caltrans will submit to the CFWO the final list of species to be included in the landscaping within 30 days of receiving approval of the draft list of species.	Landscape Architect	Pre-construction			
Contractors and construction personnel will strictly limit their activities, vehicles, equipment, and construction materials to the fenced project footprint.	Contractor / Construction	Construction			
The project site will be kept as clean of debris as possible. All food-related trash items will be enclosed in sealed containers and regularly removed from the site.	Contractor / Construction	Construction			
Pets of project personnel will not be allowed on the project site.	Contractor / Construction	Construction			
All equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other such activities will occur within the fenced project impacts limits.	Contractor / Construction	Construction			
Impacts from fugitive dust will be avoided and minimized through watering and other appropriate measures.	Contractor / Construction	Construction			
If night work is necessary, night lighting will be of the lowest illumination necessary for human safety, selectively placed, shielded and directed away from ESAs.	Contractor / Construction	Construction			

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THREATENED AND ENDANGERED SPECIES (cont.)					
Cut and fill will be balanced within the project or the construction contractor will identify the source or disposal location. All spoils and material disposal will be disposed of properly.	RE / Construction	Construction			
Permanent impacts to 0.43 ha (1.06 ac) and temporary impacts to 1.07 ha (2.64 ac) of wetland communities (southern willow scrub, freshwater marsh, disturbed wetland, unvegetated channel) will be offset through the purchase of a total of 1.42 ha (3.52 ac) of wetland credits at the Rancho Jamul Mitigation Bank.	RE / Construction	Construction / Post-construction			
The clearing and grubbing of native wetland habitats will occur from September 16 to March 14 to avoid impacts to nesting birds.	Construction	Construction			
Fueling of construction equipment will only occur at a designated area at a distance of greater than 30 m (100 ft) from drainages and associated plant communities to preclude adverse water quality impacts.	Construction	Construction			
To minimize noise impacts to vireo and rail breeding during construction, all pile driving at the Sweetwater River will be completed between September 16 and March 14. In addition, should construction occur within or adjacent to the Sweetwater River riparian corridor during the March 15 to September 15 nesting season, all construction equipment, fixed or mobile, will be equipped with properly operating and maintained mufflers.	Construction	Construction			
No night work will occur at the Sweetwater River during the March 15 to September 15 nesting season. If night work is necessary at the Sweetwater River outside of the nesting season, night lighting will be of the lowest illumination necessary for human safety, selectively placed, shielded and directed away from natural habitats.	Construction	Construction			
At the Sweetwater River, tall equipment that is not in active use will be stored under the bridge or will be fitted with bird control spikes to ensure that raptors will not be able to use it as a perch to prey on listed bird species.	Construction	Construction			
Caltrans will coordinate with the Service's Carlsbad Fish and Wildlife Office regarding the design of the Sweetwater River bridge supports to ensure that the undercrossing maintains the maximum feasible amount of light and openness (e.g., openings in bridge bents) for rail movement between occupied habitat east and west of the bridge.	Design / RE / Construction	Design / Construction			
Lighting used at night for construction will be shielded away from ESAs	Construction	Construction			

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INVASIVE SPECIES					
Special care will be taken when transporting, using, and disposing of soils with invasive weed seeds	Construction	Construction			
All heavy equipment will be washed and cleaned of debris prior to entering a riparian area, to minimize spread of invasive weeds	Construction	Construction			
Plant material to be used for the Project will be inspected to ensure that no Argentine ants are imported with the plants	Qualified Biologist	Construction			
No plant species listed on the California Invasive Plant Council (Cal-IPC) list will be planted on this Project	RE/ Design	Construction			