

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

2375 Northside Drive, Suite.100, San Diego, CA 92108  
Phone (619) 516-1990 • Fax (619) 516-1994  
<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: Bridge 243.0 Scour Repair Project  
Certification Number R9-2014-0132  
WDID: 9000002780**

Reg. Meas. ID: 398662 Place ID: 810251 Party ID: 31651 Person ID: 548977
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**APPLICANT: North County Transit District  
810 Mission Avenue  
Oceanside, CA 92054**

**ACTION:**

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

**PROJECT DESCRIPTION**

An application dated October 22, 2014 was submitted by the North County Transit District (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (33 U.S.C. § 1341) for the proposed Bridge 243.0 Scour Repair Project (Project). The Applicant has also applied for a Clean Water Act section 404 permit from the United States Army Corps of Engineers for the Project (USACE File No. 2014-00658-RRS).

The Project is located within the City of Del Mar, San Diego County, California, north of Jimmy Durante Boulevard, south of the San Diego County Fairgrounds, and within the San Dieguito River. The Project center reading is located at latitude 32.9728500° and longitude -117.2666917°. The Applicant has paid all required fees for this Certification in the amount of \$6,407.00. On November 3, 2014, 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 structurally stabilize the San Dieguito River railway bridge from unanticipated sediment scour. The Project will repair twenty six scour holes, ranging from 8 to 14 feet-deep, that have formed around piling bents that support the railway bridge within the San Dieguito River bed. Project construction includes the excavation of approximately 5,854 cubic yards of sediment from the existing river bottom at the scour locations, the placement of approximately 4,139 cubic yards of 1,000-lb class riprap into the excavations, and placement

of native river bottom sediment fill over the riprap. All construction will occur from floating barges. Native river bottom sediment will be installed to pre-scour bathymetry.

Project construction will permanently impact 1.13 acres (340 linear feet) of 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 permanent impacts to 1.13 acre of jurisdictional waters will be restored to pre-scour river bottom bathymetry upon completion of the Project. In addition, the riprap placed in the river bottom as part of this Project will be removed during the future construction of new rail bridges at this location which is estimated to be within the next fifteen years.

Additional Project details are provided in Attachment 2 of this Certification.

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- 2. Project Location, Figures, and Plans**

## 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. R9-2014-0132 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 U.S.C. §1344) permit issued by the U.S. Army Corps of Engineers for this Project, or b) five (5) years from the date of issuance of this Certification, whichever occurs first.
- B. **Duty to Comply.** The Applicant must comply with all conditions and requirements of this Certification. Any Certification noncompliance constitutes a violation of the Water Code and is grounds for enforcement action or Certification termination, revocation and reissuance, or modification.
- C. **General Waste Discharge Requirements.** The requirements of this Certification are enforceable through Water Quality Order No. 2003-0017-DWQ, *Statewide General Waste Discharge Requirements for Discharges of Dredged or Fill Material that have Received State Water Quality Certification* (Water Quality Order No. 2003-0017-DWQ). This provision shall apply irrespective of whether a) the federal permit for which the Certification was obtained is subsequently retracted or is expired, or b) the Certification is expired. Water Quality Order No. 2003-0017-DWQ is accessible at:

[http://www.waterboards.ca.gov/water\\_issues/programs/cwa401/docs/generalorders/go\\_wdr401regulated\\_projects.pdf](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 U.S.C §1313).
- F. **Project Modification.** The Applicant must submit any changes to the Project, including Project operation, which would have a significant or material effect on the findings, conclusions, or conditions of this Certification, to the San Diego Water for prior review and written approval. If the San Diego Water Board is not notified of a significant change to the Project, it will be considered a violation of this Certification.
- G. **Certification Distribution Posting.** During Project construction, the Applicant must maintain a copy of this Certification at the Project site. This Certification must be available at all times to site personnel and agencies. A copy of this Certification shall also be provided to any contractor or subcontractor performing construction work, and the copy shall remain in their possession at the Project site.
- H. **Inspection and Entry.** The Applicant must allow the San Diego Water Board or the State Water Resources Control Board, and/or their authorized representative(s) (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents as may be required under law, to:
1. Enter upon the Project or Compensatory Mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Certification;
  2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Certification;
  3. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Certification; and
  4. Sample or monitor, at reasonable times, for the purposes of assuring Certification compliance, or as otherwise authorized by the Clean Water Act or Water Code, any substances or parameters at any location.

- I. **Enforcement Notification.** In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
- J. **Certification Actions.** This Certification may be modified, revoked and reissued, or terminated for cause including but not limited to the following:
1. Violation of any term or condition of this Certification;
  2. Monitoring results indicate that continued Project activities could violate water quality objectives or impair the beneficial uses of the San Dieguito River;
  3. Obtaining this Certification by misrepresentation or failure to disclose fully all relevant facts;
  4. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; and
  5. Incorporation of any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.

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

- K. **Duty to Provide Information.** The Applicant shall furnish to the San Diego Water Board, within a reasonable time, any information which the San Diego Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Certification or to determine compliance with this Certification.
- L. **Property Rights.** This Certification does not convey any property rights of any sort, or any exclusive privilege.
- M. **Petitions.** Any person aggrieved by this action of the San Diego Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with the California Code of Regulations, title 23, sections 3867 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Certification. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: [http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.

### III. STORM WATER 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. **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 best management practice (BMP) plan) to prevent the discharge of sediment and other pollutants during construction activities. **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. **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.
- E. **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.
- F. **Downstream Erosion.** Discharges of concentrated flow during construction or after Project completion must not cause downstream erosion or damage to properties or stream habitat.
- G. **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.

- H. **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.
- I. **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.
- J. **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.
- K. **Beneficial Use Protection.** The Applicant must take all necessary measures to protect the beneficial uses of waters of the San Dieguito 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 VI.A of this Certification. Associated Project activities may not resume without approval from the San Diego Water Board.

#### IV. PROJECT IMPACTS AND MITIGATION

- A. **Project Impacts and Compensatory Mitigation.** Unavoidable permanent Project impacts to the San Dieguito River, within the San Dieguito Watershed, must not exceed 1.13 acres (340 linear feet). Permanent Project impacts to waters of the United States and/or State must be offset by the restoration of 1.13 acres (340 linear feet) of river bottom to pre-scour bathymetry. In addition, riprap installed during the Project must be removed when the future double track bridge(s) are constructed at this location.

#### V. MONITORING AND REPORTING REQUIREMENTS

- A. **Annual Project Progress Reports.** The Applicant must submit annual Project progress reports describing compliance with all requirements of this Certification to the



San Diego Water Board prior to **March 1** of each year following the issuance of this Certification, until the Project has reached completion. The report must include the following information:

1. The names, qualifications, and affiliations of the persons contributing to the report;
2. The status, progress, and anticipated schedule for completion of Project construction activities;
3. A description of Project construction delays encountered or anticipated that may affect the schedule for construction completion; and
4. A description of each incident of noncompliance during the annual monitoring period and its cause, the period of the noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

**B. Final Project Completion Report.** The Applicant must submit a Final Project Completion Report to the San Diego Water Board **within 30 days of completion of the Project**. The final report must include the following information:

1. Date of construction initiation;
2. Date of construction completion;
3. As-built drawings of the Project, no bigger than 11”X17”; and
4. Photo documentation of implemented post-construction BMPs and all areas of permanent and temporary impacts, prior to and after project construction. Photo documentation must be conducted in accordance with guidelines posted at [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/401\\_certification/docs/StreamPhotoDocSOP.pdf](http://www.waterboards.ca.gov/sandiego/water_issues/programs/401_certification/docs/StreamPhotoDocSOP.pdf). In addition, photo documentation must include Global Positioning System (GPS) coordinates for each of the photo points referenced.

**C. 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.

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

California Regional Water Quality Control Board  
San Diego Region  
Attn: 401 Certification No. R9-2014-0132:PIN 810251  
2375 Northside Drive, Suite 100  
San Diego, California 92108

Each electronic document must be submitted as a single file, in Portable Document Format (PDF) format, 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. R9-2014-0132:PIN 810251.

**E. 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.

**F. 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."*

## VI. 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 for a discharge which is in compliance with this Certification, 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 Name, 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 for a discharge which is in compliance with this Certification, 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.**

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

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

## VII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

Rail projects related to interstate commerce fall under the jurisdiction of the federal Surface Transportation Board. The Surface Transportation Board found that federal law preempts State and local regulation of such projects under the Interstate Commerce Clause of the United States Constitution. The San Diego Water finds this project is not subject to California Environmental Quality Act.

## VIII. SAN DIEGO WATER BOARD CONTACT PERSON


Mike Porter, Engineering Geologist  
Telephone: 619-521-3967  
Email: [mike.porter@waterboards.ca.gov](mailto:mike.porter@waterboards.ca.gov)

## IX. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **Bridge 243.0 Scour Repair Project** (Certification No. R9-2014-0132) 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. R9-2014-0132 issued on January 14, 2015.

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

14 Jan 2015  
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.

North County Transit District  
Bridge 243.0 Scour Repair Project  
Certification No. R9-2014-0132

**ATTACHMENT 2  
PROJECT FIGURES AND PLANS**

Figure 1: Regional Location

Figure 2: Impact Area

Sheet 2 of 4: Bridge 243.0 Riprap Protection Over San Dieguito River – Area of Potential Effects, Construction Access and Draft Sediment and Erosion Control Plan

Sheet 3 of 4: Bridge 243.0 Riprap Protection Over San Dieguito River – South Bridge Abutment Protection Plan and Details

Sheet 4 of 4: Bridge 243.0 Riprap Protection Over San Dieguito River – Bent Protection Plan and Details





SOURCE: Esri, 2014; BRG Consulting, Inc., 2014

10/10/14



Bridge 243 Scour Repair

Regional Location

FIGURE

1



SOURCE: Esri, 2015; SanGIS, 2015

1/9/15



Bridge 243 Scour Repair

Impact Area

FIGURE

2

**GENERAL NOTES**

- CONTRACTOR SHALL UPDATE AND COMPLETE THE DRAFT SWPPP PREPARED BY HDR AND SUBMIT TO NCTD FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE APPROVED SWPPP.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATIONS AND REMOVAL, INSPECTIONS AND MAINTENANCE OF EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP).
- ALL BMPs SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). DEVIATION FROM THIS PLAN SHALL BE NOTED AND RECORDED IN WEEKLY INSPECTION REPORTS AS REQUIRED IN THE SWPPP.
- ALL MAINTENANCE AND INSPECTION REPORTS WITHIN THE SWPPP SHALL BE SIGNED BY A QUALIFIED SWPPP PRACTITIONER (OSP) ASSIGNED BY THE CONTRACTOR AND/OR CLIENT. THE SWPPP PACKAGE AND THE REPORTS SHALL BE AVAILABLE TO ENVIRONMENTAL PROTECTION AGENCY (EPA), REGIONAL WATER QUALITY CONTROL BOARD (RWQCB) AND NCTD REPRESENTATIVES AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL INSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC R/W, ON TO PRIVATE PROPERTY, OR ENVIRONMENTALLY SENSITIVE AREAS.
- CONTRACTOR TO BEND SHRUBS AND GRASSES TO GROUNDLINE IN PROPOSED SOIL STORAGE AREAS, AND, SHALL UTILIZE GEOTEXTILE FABRIC OVER TOPSOIL, GRASSES AND SHRUBS IN AFFECTED AREAS.
- UPON COMPLETION OF WORK, REMOVE GEOTEXTILE AND ANY EXCAVATED MATERIAL BEING CAREFUL NOT TO DISTURB NATIVE VEGETATION.
- ANY DISTURBED AREAS IN THE DRY SHALL BE REVEGETATED PER PROJECT SPECIFICATIONS.
- SILT CURTAIN (TURBIDITY CURTAIN) IN WATER SHALL SURROUND THE AREA BEING WORKED. SILT CURTAIN (TURBIDITY CURTAIN) FOR THE FULL WATER WIDTH NOT NECESSARY IF WORK IS CONFINED TO THE SILT CURTAIN (TURBIDITY CURTAIN) AREA.
- SILT CURTAIN IS ALSO REFERRED TO AS "TURBIDITY CURTAIN" IN FACTSHEET NS-5 IN CASDA STORMWATER BMP HANDBOOK, CONSTRUCTION. REFER TO SWPPP.
- THE CONTRACTOR SHALL COORDINATE ACCESS POINTS WITH THE CITY OF DEL MAR OR ADJACENT LAND OWNER.
- ELEVATIONS BASED ON NGVD 1929 DATUM.
- EXCAVATION/RIPRAP INSTALLATION MAY OCCUR AT NO MORE THAN 3 BENTS AT A TIME.
- CONTRACTOR TO TAKE CARE IN EXCAVATING AND PLACING RIPRAP AROUND BRIDGE. ANY DAMAGE TO BRIDGE SHALL BE REPORTED IMMEDIATELY TO NCTD AND REPAIRED IN ACCORDANCE WITH NCTD INSTRUCTIONS, AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH NCTD AND OTHER CONTRACTOR(S) ON SITE.
- THE EXISTING BRIDGE AND GROUND ELEVATIONS ARE BASED UPON A SURVEY PERFORMED BY PROJECT DESIGN CONSULTANTS IN MARCH, 2014 AND ARE BASED UPON THE CITY OF DEL MAR VERTICAL CONTROL STATION DESIGNATED "LJ 106" HAVING AN ELEVATION OF 13.889 FEET, N.G.V.D. 29 DATUM. SAID STATION IS LOCATED ON THE TOP OF A CONCRETE WING-WALL AT THE SOUTHEAST CORNER OF A CONCRETE BRIDGE ON CAMINO DEL MAR CROSSING THE SAN DIEGUITO RIVER IN THE CITY OF DEL MAR, CALIFORNIA. THE COORDINATES FOR THE PROJECT BENCHMARK (CITY OF DEL MAR STATION DESIGNATION LJ-106) ARE: N 1935802.63, E 6249239.77 FEET, CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 6.
- HOLES, CUTS AND ABRASIONS MADE IN TIMBER SHALL BE SWABBED WITH PRESERVATIVE.
- EXISTING PEDESTRIAN TRAIL/CROSSING SOUTH OF THE BRIDGE TO BE CLOSED BY CONTRACTOR DURING CONSTRUCTION.

**BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES**

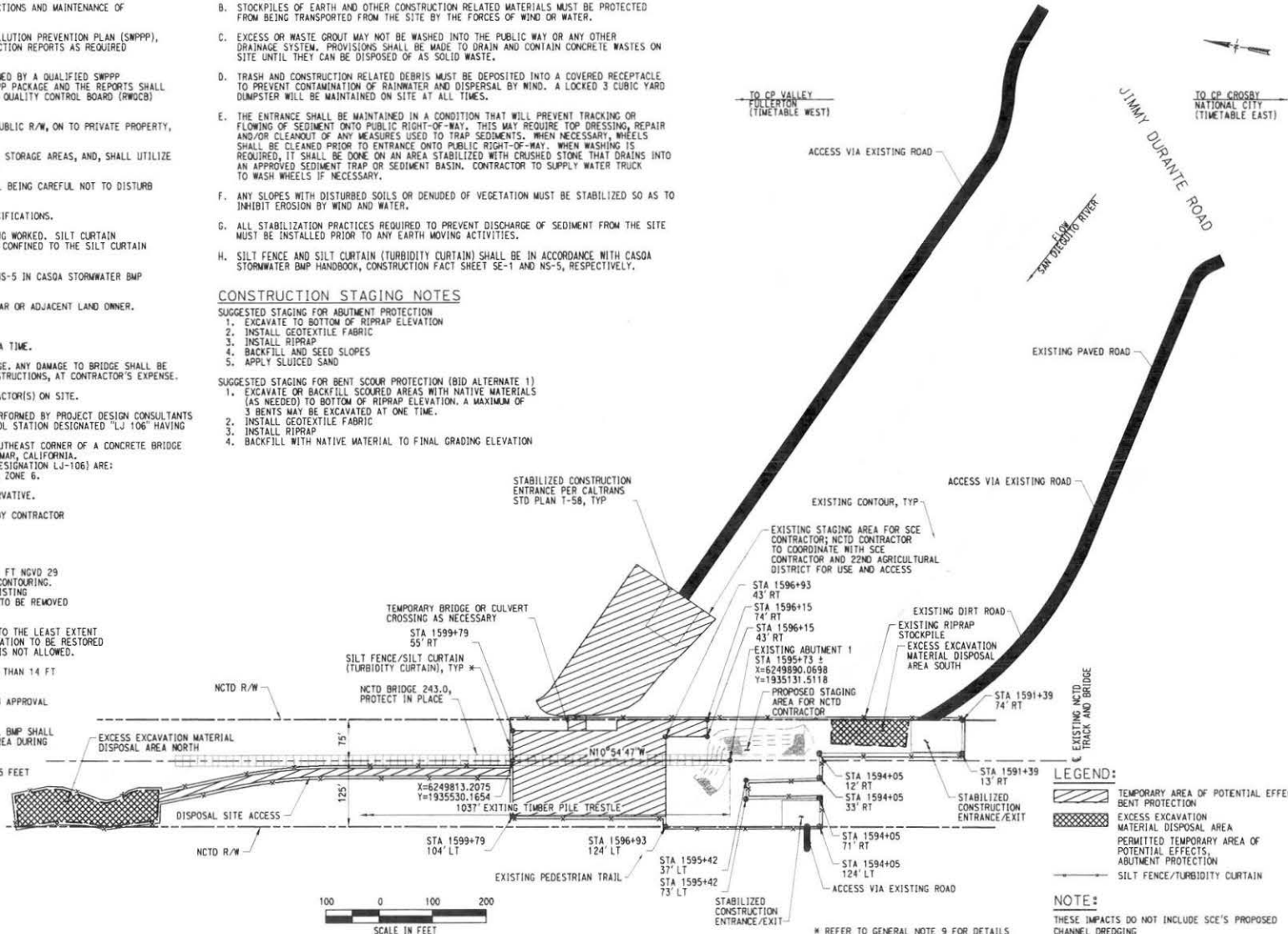
- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SWALES, AREA DRAINS, OR NATURAL DRAINAGE COURSES.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- EXCESS OR WASTE GROUT MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO DRAIN AND CONTAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- TRASH AND CONSTRUCTION RELATED DEBRIS MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND. A LOCKED 3 CUBIC YARD DUMPSTER WILL BE MAINTAINED ON SITE AT ALL TIMES.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENTS. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. CONTRACTOR TO SUPPLY WATER TRUCK TO WASH WHEELS IF NECESSARY.
- ANY SLOPES WITH DISTURBED SOILS OR DENURED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- ALL STABILIZATION PRACTICES REQUIRED TO PREVENT DISCHARGE OF SEDIMENT FROM THE SITE MUST BE INSTALLED PRIOR TO ANY EARTH MOVING ACTIVITIES.
- SILT FENCE AND SILT CURTAIN (TURBIDITY CURTAIN) SHALL BE IN ACCORDANCE WITH CASDA STORMWATER BMP HANDBOOK, CONSTRUCTION FACT SHEET SE-1 AND NS-5, RESPECTIVELY.

**CONSTRUCTION STAGING NOTES**

- SUGGESTED STAGING FOR ABUTMENT PROTECTION**
- EXCAVATE TO BOTTOM OF RIPRAP ELEVATION
  - INSTALL GEOTEXTILE FABRIC
  - INSTALL RIPRAP
  - BACKFILL AND SEED SLOPES
  - APPLY SLUICED SAND
- SUGGESTED STAGING FOR BENT SCOUR PROTECTION (BID ALTERNATE 1)**
- EXCAVATE OR BACKFILL SCoured AREAS WITH NATIVE MATERIALS (AS NEEDED) TO BOTTOM OF RIPRAP ELEVATION. A MAXIMUM OF 3 BENTS MAY BE EXCAVATED AT ONE TIME.
  - INSTALL GEOTEXTILE FABRIC
  - INSTALL RIPRAP
  - BACKFILL WITH NATIVE MATERIAL TO FINAL GRADING ELEVATION

**EXCESS EXCAVATED MATERIAL DISPOSAL**

- THE NORTH DISPOSAL AREA SHALL BE FILLED AND CONTOURED TO ELEVATION 4 FT NGVD 29 (NOT TO EXCEED). MATERIAL SHOULD BE ALLOWED TO DRAIN PRIOR TO FINAL CONTOURING. OUTER EDGES OF FILL MATERIAL SHALL FEATHER TRANSITION TO ADJACENT EXISTING GROUND CONTOURS. NO COMPACTION IS AUTHORIZED. PERIMETER SILT FENCING TO BE REMOVED UPON AUTHORIZATION OF NCTD'S QUALIFIED SWPPP PRACTITIONER ONLY.
- ACCESS TO THE NORTH DISPOSAL AREA SHALL DISTURB EXISTING VEGETATION TO THE LEAST EXTENT PRACTICAL AND ONLY AS APPROVED IN THE FIELD BY NCTD. DISTURBED VEGETATION TO BE RESTORED TO ITS ORIGINAL STATE. MATERIAL MOVEMENT TO DISPOSAL AREA BY VEHICLE IS NOT ALLOWED.
- THE MATERIAL PILED IN THE SOUTH DISPOSAL AREA SHALL EXTEND NO HIGHER THAN 14 FT ABOVE THE EXISTING GROUND.
- MATERIAL DISPOSAL SHALL BE CONFINED TO AREAS INDICATED UNLESS WRITTEN APPROVAL IS OBTAINED BY NCTD.
- PLASTIC SHEETING WITH SUITABLE ANCHORING PER STANDARD EROSION CONTROL BMP SHALL BE APPLIED TO COVER THE ENTIRE MATERIAL PILE IN THE SOUTH DISPOSAL AREA DURING NON-WORKING HOURS AND UPON COMPLETION.
- MATERIAL DISPOSAL PILE LIMITS AND SILT FENCING MUST REMAIN AT LEAST 25 FEET AWAY FROM THE TRACK CENTERLINE.



REV.	DATE	DESCRIPTION	APP.

DESIGNED BY  
**J. HYLES**

DRAWN BY  
**M.R. GRANADO**

CHECKED BY  
**R. MCNAUGHT**

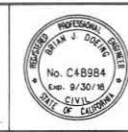
APPROVED BY  
**B. DOEING**

DATE  
**NOVEMBER 2014**



**NCTD**  
NORTH COAST TRAVEL CENTER  
10000 N. STATE ST., SUITE 201  
SAN DIEGO, CA 92108  
(619) 444-1000

APPROVED:  
\_\_\_\_\_  
DATE: \_\_\_\_\_



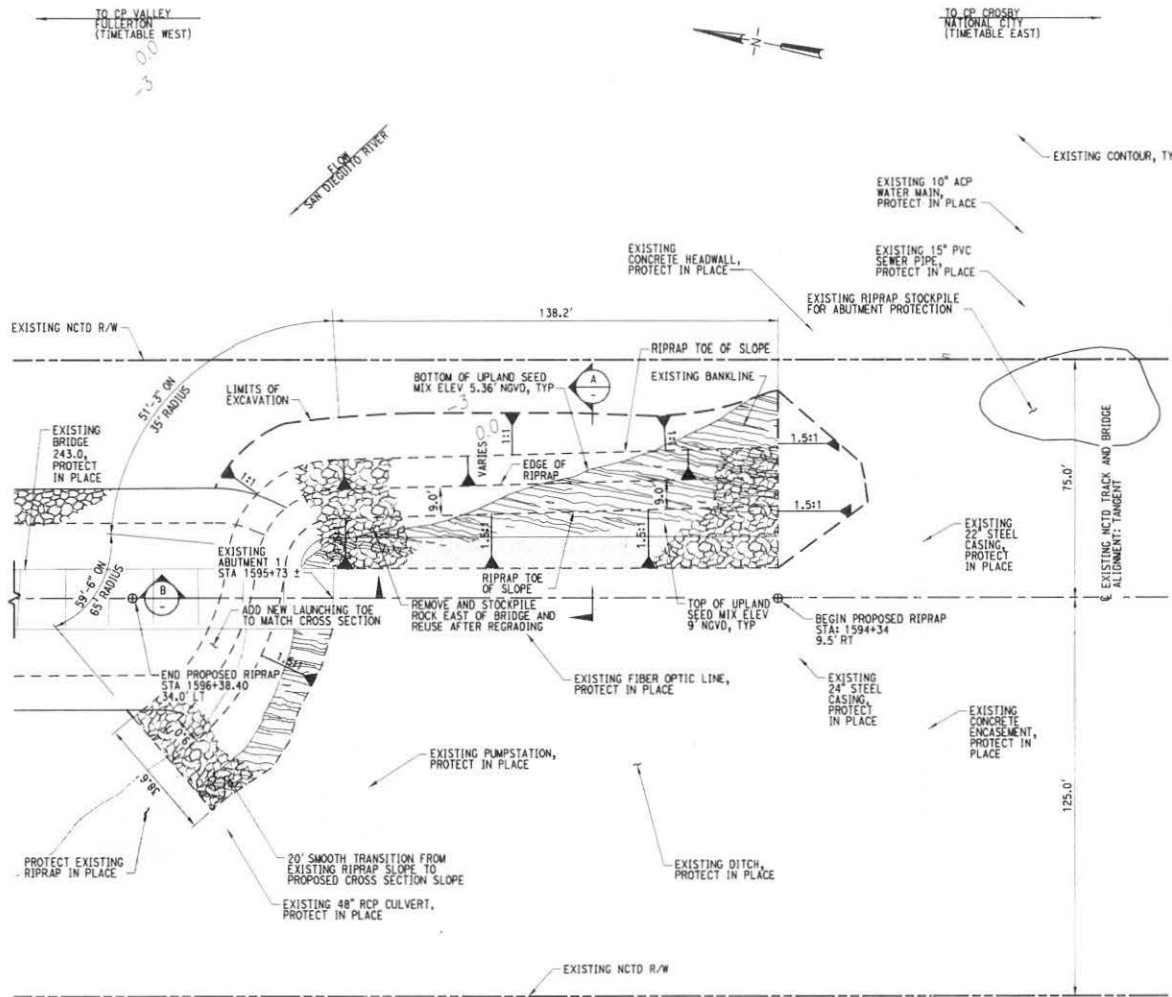
**BRIDGE 243.0 RIPRAP PROTECTION OVER SAN DIEGUITO RIVER**  
**AREA OF POTENTIAL EFFECTS, CONSTRUCTION ACCESS AND DRAFT SEDIMENT AND EROSION CONTROL PLAN**

CONTRACT NO. \_\_\_\_\_  
 DRAWING NO. **243.0-RP01**  
 REVISION SHEET NO. **2 OF 4**  
 SCALE **AS NOTED**

SAN DIEGUITO CREEK  
PLANT PALETTE FOR SHORELINE REVETMENT

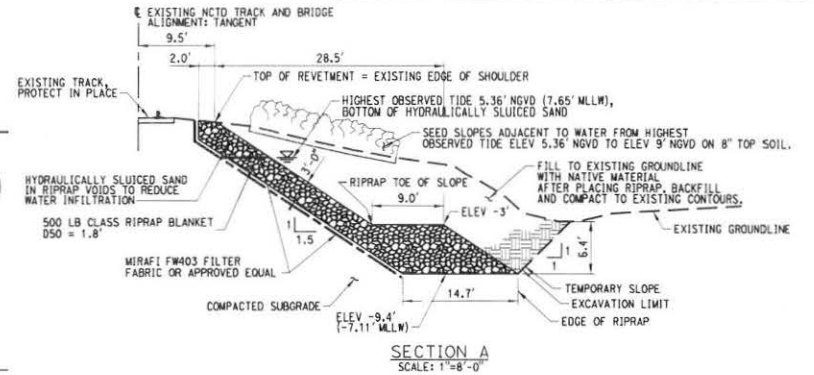
Upland Seed Mix - above elevation 5.36'

Botanical Name	Common Name	Seed Rate (Pure Live Seed)
<i>Artemisia californica</i>	California sagebrush	0.2 lbs/acre
<i>Baccharis pilularis</i>	coyote brush	0.5 lbs/acre
<i>Ambrosia psilostachya</i>	western ragweed	0.2 lbs/acre
<i>Artiplex lentiformis</i>	big saltbrun	4.0 lbs/acre
<i>Artiplex canescens</i>	California buckwheat	3.0 lbs/acre
<i>Eriogonum fasciculatum</i>	coast goldenbrush	2.0 lbs/acre
<i>Isocome menziesii</i>	deerweed	1.0 lbs/acre
<i>Lotus scoparius</i>	Foothill Plantain	5.0 lbs/acre
<i>Plantago erecta</i>		

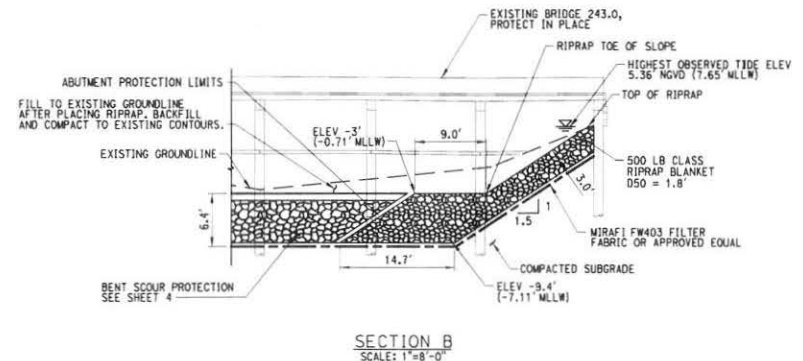


PLAN -  
SOUTH BRIDGE ABUTMENT PROTECTION  
SCALE: 1"=20'-0"

**NOTE:**  
1. WORK ON THIS SHEET PERMITTED IN 2012  
404 PERMIT SPL-2011-00298-RRS COASTAL CC-006-11



SECTION A  
SCALE: 1"=8'-0"



SECTION B  
SCALE: 1"=8'-0"

**LEGEND:**  
 HYDRAULICALLY SLUICED SAND  
 UPLAND SEED MIX

REV.	DATE	DESCRIPTION	APP.

DESIGNED BY  
J. HYLES  
 DRAWN BY  
M. R. GRANADO  
 CHECKED BY  
R. McNAUGHT  
 APPROVED BY  
B. DOEING  
 DATE  
NOVEMBER 2014

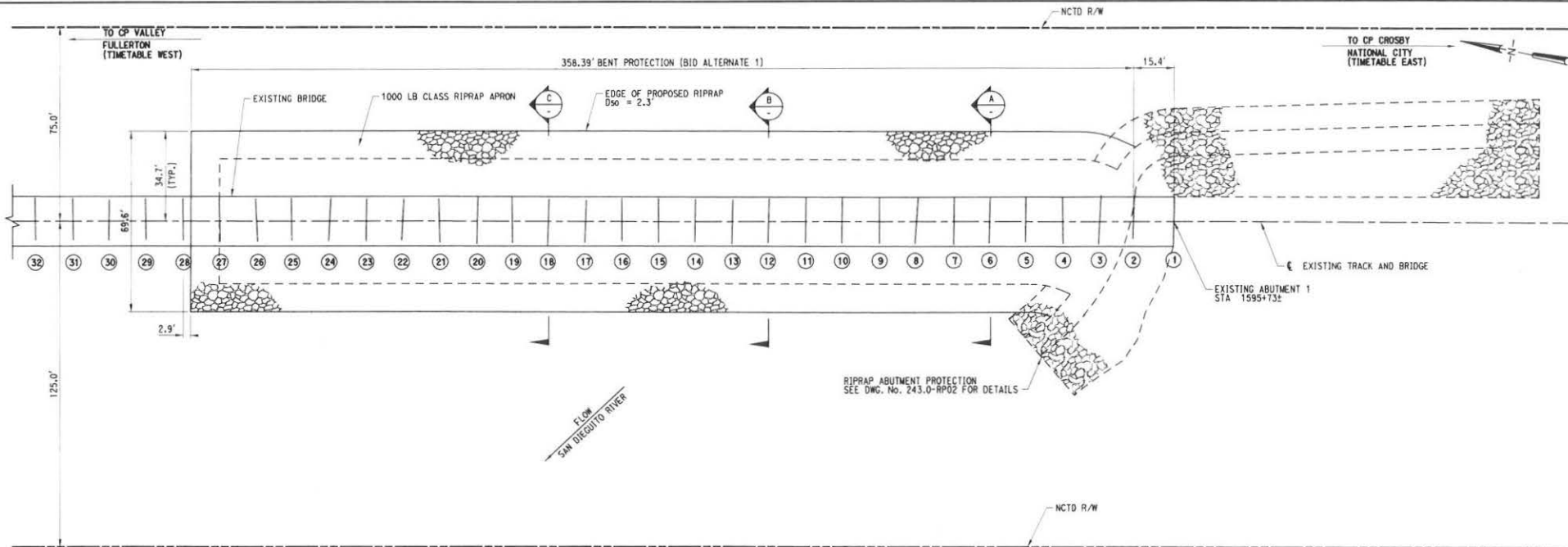


1015 G STREET, S.F. CA 94133  
 415 774-2200  
 WWW.HDR.COM



**BRIDGE 243.0 RIPRAP PROTECTION  
OVER SAN DIEGUITO RIVER  
SOUTH BRIDGE ABUTMENT  
PROTECTION PLAN AND DETAILS**

CONTRACT NO.  
DRAWING NO.  
240.4-RP02  
 REVISION SHEET NO.  
3 OF 4  
 SCALE  
AS NOTED



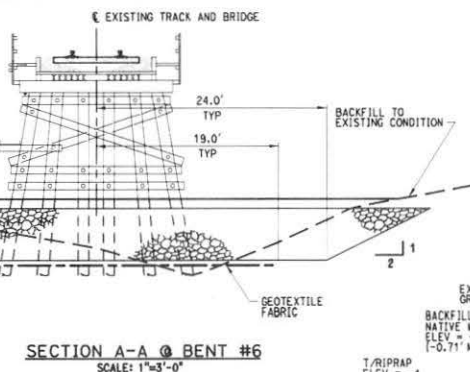
**LEGEND:**

⊕ EXISTING ABUT OR BENT

⊕ TRANSITION TO EXISTING GROUNDLINE

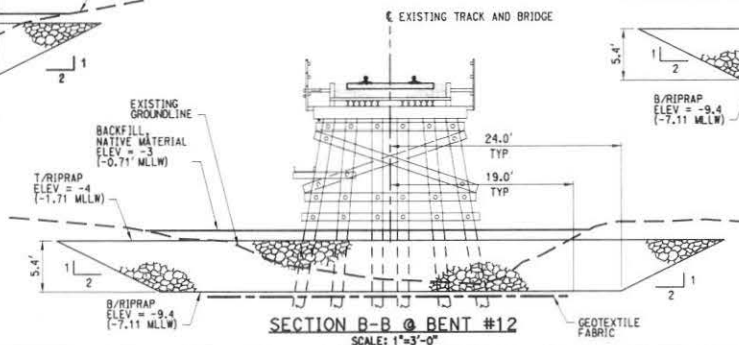
EXISTING GROUNDLINE  
 BACKFILL NATIVE MATERIAL ELEV = -3 (-0.71 MLLW)  
 T/RIPRAP ELEV = -4 (-1.71 MLLW)

B/RIPRAP ELEV = -9.4 (-7.11 MLLW)

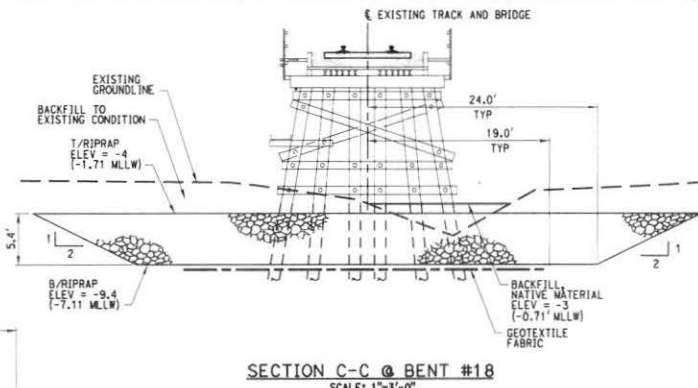


**SECTION A-A @ BENT #6**  
SCALE: 1"=3'-0"

**PLAN**  
SCALE: 1"=40'-0"



**SECTION B-B @ BENT #12**  
SCALE: 1"=3'-0"



**SECTION C-C @ BENT #18**  
SCALE: 1"=3'-0"

REV.	DATE	DESCRIPTION	BY	APP.

DESIGNED BY  
**L. HYLES**

DRAWN BY  
**M. R. GRANADO**

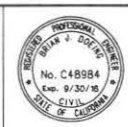
CHECKED BY  
**R. McNAUGHT**

APPROVED BY  
**B. DOEING**

DATE  
**NOVEMBER 2014**



CON ENGINEERING, INC.  
 520 S. CAMDEN AVE., SUITE 213  
 RIVERDALE, CALIFORNIA 92549  
 (951) 517-1000



**BRIDGE 243.0 RIPRAP PROTECTION OVER SAN DIEGUITO RIVER**

**BENT PROTECTION PLAN AND DETAILS**

CONTRACT NO.	243.0-RP03
DRAWING NO.	243.0-RP03
REVISION	SHEET NO.
	4 OF 4
SCALE	AS NOTED