

**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: Pamo Valley Segment of the Coast to Crest Trail
Certification Number R9-2018-0073
WDID: 9000003292**

Reg. Meas. ID: 420707 Place ID: 846305 Party ID: 563253 Person ID: 562254
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**APPLICANT: San Dieguito River Park Joint Powers Authority
18372 Sycamore Creek Rd
Escondido, CA 92025**

ACTION:

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

PROJECT DESCRIPTION

An application dated April 3, 2018 was submitted by San Dieguito River Park Joint Powers Authority (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (33 U.S.C. § 1341) for the proposed **Pamo Valley Segment of the Coast to Crest Trail Project** (Project). The Applicant has also applied for Clean Water Act section 404 Nationwide Permit No. 14 (SPL-2016-00386-WSZ) from the United States Army Corps of Engineers for the Project.

The Project consists of the installation of two culvert crossings and one bridged crossing for a new hiking trail north of Ramona along Pamo Valley Rd, California in Pamo Valley. The Project's center reading is as follows:

- latitude 33.14046, longitude -116.85010

The Applicant has paid all required fees for this Certification in the amount of \$1,500.00. On July 19, 2018, the San Diego Water Board provided public notice of the Project application pursuant to California Code of Regulations, title 23, section 3858 by posting information describing the Project on the San Diego Water Board's web site and providing a period of twenty-one days for public review and comment. No comments were received.

The purpose of this Project is to construct a three-mile segment of the San Dieguito River Park Coast to Crest Trail. This segment will extend through Pamo Valley connecting the existing Lower Santa Ysabel Trail to the Upper Santa Ysabel Trail. The Project entails grading a six to

eight foot wide hiking trail and two trail head staging areas with culvert crossings where necessary and one Puncheon bridged crossing. The trail will be made of compacted native soil supplemented by gravel, decomposed granite, or road base. The new trail will be used by hikers, bicyclists, and equestrians. The trail is adjacent to Pamo Rd and would share the roadway in two places utilizing existing road crossings as part of the trail. The Project crosses approximately 10 ephemeral drainages or erosional features that drain towards Pamo Rd and Santa Ysabel Creek. Two of the drainages were identified as waters of the United States and/or State, but only Drainage 1 is impacted by the Project by the installation of a Puncheon style bridge over Drainage 1. Three additional trail crossing locations were identified as potential waters of the State; Basin 2 (designated as Drainage 4 in the jurisdictional delineation), Basin 3 (Drainage 3), and Basin 4 (No designation) and require culvert crossings. The total impacts are only 0.0019 acres (32 linear feet). The remaining crossings did not require man-made crossing structures, avoided impacts by using existing bridges and roads, or were not considered waters of the United States and/or State. Duration of construction time is estimated to be six months.

Receiving waters potentially affected by the Project are protected in accordance with water quality standards in the *Water Quality Control Plan for the San Diego Basin (9)* (Basin Plan). This Certification authorizes permanent and temporary impacts to waters of the United States and/or State affected by the Project and requires compensatory mitigation to offset adverse impacts as described in section VI of the Certification. The temporary impacts will be restored by the Applicant to pre-Project conditions and do not include physical loss of aquatic resource area or degradation of ecological conditions. Compensatory mitigation to offset the permanent loss of jurisdictional waters will be achieved as described in the *Habitat Restoration Plan, Pamo Trail Alignment Project, June 2018*. San Diego Water Board acceptance of the Mitigation Plan applies only to the Project described in this Certification and must not be construed as approval for other current or future projects that are planning to use additional acreage at the site for mitigation. Based on all of these considerations, the Applicant's compliance with the terms and conditions of this Certification will ensure that the water quality standards for all waters of the United States and/or State impacted by the Project are met.

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Attachments:

- 1. Definitions**
- 2. Project Figures and Plans**

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

I. STANDARD CONDITIONS

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

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

II. GENERAL CONDITIONS

- A. **Term of Certification.** Water Quality Certification No. R9-2018-0073 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 U.S.C. §1344) permit issued by the U.S. Army Corps of Engineers for this Project, or b) five (5) years from the date of issuance of this Certification, whichever occurs first.
- B. **Duty to Comply.** The Applicant must comply with all conditions and requirements of this Certification. Any Certification noncompliance constitutes a violation of the Water Code and is grounds for enforcement action or Certification termination, revocation and reissuance, or modification.
- C. **General Waste Discharge Requirements.** The requirements of this Certification are enforceable through Water Quality Order No. 2003-0017-DWQ, *Statewide General Waste Discharge Requirements for Discharges of Dredged or Fill Material that have Received State Water Quality Certification* (Water Quality Order No. 2003-0017-DWQ). This provision shall apply irrespective of whether a) the federal permit for which the Certification was obtained is subsequently retracted or is expired, or b) the Certification is expired. Water Quality Order No. 2003-0017-DWQ is accessible at:

http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/generalorders/gowdr401regulated_projects.pdf

- D. **Project Conformance with Application.** All water quality protection measures and BMPs described in the application and supplemental information for water quality certification are incorporated by reference into this Certification as if fully stated herein. Notwithstanding any more specific conditions in this Certification, the Applicant shall construct, implement and comply with all water quality protection measures and BMPs described in the application and supplemental information. The conditions within this Certification shall supersede conflicting provisions within the application and supplemental information submitted as part of this Certification action.
- E. **Project Conformance with Water Quality Control Plans or Policies.** Notwithstanding any more specific conditions in this Certification, the Project shall be constructed in a manner consistent with the Basin Plan and any other applicable water quality control plans or policies adopted or approved pursuant to the Porter Cologne Water Quality Act (Division 7, commencing with Water Code Section 13000) or section 303 of the Clean Water Act (33 U.S.C §1313.). The Basin Plan is accessible on-line at:

http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.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 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 Santa Ysabel Creek, Temescal Creek, or their 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 AND POST CONSTRUCTION BEST MANAGEMENT PRACTICES

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

IV. PROJECT IMPACTS AND COMPENSATORY MITIGATION

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

	Impacts (acres)	Impacts (linear ft.)	Mitigation for Impacts (acres)	Mitigation Ratio (area mitigated :area impacted)	Mitigation for Impacts (linear ft.)	Mitigation Ratio (linear feet mitigated :linear feet impacted)
Permanent Impacts						
Streambed	0.0019	32	0.36 Enhancement ^{1,2}	189:1	732	22.9:1

NA – Not applicable

1. Project compensatory mitigation is part of 2.70 acres of Arroyo Toad habitat enhancement and 0.54 acres of Coastal Sage Scrub establishment; total area mitigation is 3.24 acres. A section of Drainage 8 runs through the eastern section of the mitigation site and is the location of the enhancement for impacts to streambed habitat. The mitigation site will be protected from cattle grazing by a fence surrounding the entire site. The San Diego Water Board is accepting the enhancement mitigation to offset the permanent loss of streambed habitat because the Project impacts are very small, the mitigation acreage is large in comparison to the impacts, and the mitigation site is part of a larger restoration effort that will benefit both the upland, streambed, and adjacent streambed habitat.
2. All areas of temporary impacts must be restored to pre-project contours and re-vegetated with native species.

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

V. MONITORING AND REPORTING REQUIREMENTS

A. 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 **May 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/401c/401PhotoDocRB9V713.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. 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. R9-2018-0073:846305:amonji
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. R9-2018-0073:846305:amonji.

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. **Anticipated Noncompliance.** The Applicant shall give advance notice to the San Diego Water Board of any planned changes in the Project or the Compensatory Mitigation project which may result in noncompliance with Certification conditions or requirements.

C. **Transfers.** This Certification is not transferable in its entirety or in part to any person or organization except after notice to the San Diego Water Board in accordance with the following terms:

1. **Transfer of Property Ownership:** The Applicant must notify the San Diego Water Board of any change in ownership of the Project area. Notification of change in ownership must include, but not be limited to, a statement that the Applicant has provided the purchaser with a copy of the Section 401 Water Quality Certification and that the purchaser understands and accepts the certification requirements and the obligation to implement them or be subject to liability for failure to do so; the seller and purchaser must sign and date the notification and provide such notification to the San Diego Water Board **within 10 days of the transfer of ownership.**
2. **Transfer of Mitigation Responsibility:** Any notification of transfer of responsibilities to satisfy the mitigation requirements set forth in this Certification must include a signed statement from an authorized representative of the new party (transferee) demonstrating acceptance and understanding of the responsibility to comply with and fully satisfy the mitigation conditions and agreement that failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the San Diego Water Board under Water Code section 13385, subdivision (a). Notification of transfer of responsibilities meeting the above conditions must be provided to the San Diego Water Board **within 10 days of the transfer date.**
3. **Transfer of Post-Construction BMP Maintenance Responsibility:** The Applicant assumes responsibility for the inspection and maintenance of all post-construction structural BMPs until such responsibility is legally transferred to another entity. At the time maintenance responsibility for post-construction BMPs is legally transferred the Applicant must submit to the San Diego Water Board a copy of such documentation and must provide the transferee with a copy of a long-term BMP maintenance plan that complies with manufacturer specifications. The Applicant must provide such notification to the San Diego Water Board **within 10 days** of the transfer of BMP maintenance responsibility.

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

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

VII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

- A. The San Dieguito River Park Joint Powers Authority 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 Notice of Determination dated

March 6, 2017 for Mitigation Negative Declaration for the Pamo Valley Segment of the Coast to Crest Trail (State Clearing House Number 2016031069). The Lead Agency has determined the Project will not have a significant effect on the environment and mitigation measures were made a condition of the Project.

- B. 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.

VIII. SAN DIEGO WATER BOARD CONTACT PERSON

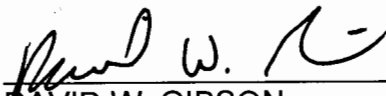
Alan Monji, Environmental Scientist
California Regional Water Quality Control Board, San Diego Region
2375 Northside Drive, Suite 100
San Diego, California 92108
Telephone: 619-521-3968
Email: Alan.Monji@waterboards.ca.gov

IX. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the Pamo Valley Segment of the Coast to Crest Trail Project (Certification No. R9-2018-0073) 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. R9-2018-0073 issued on August 21, 2018.



DAVID W. GIBSON
Executive Officer
San Diego Water Board

21 August 2018

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.

ATTACHMENT 2

LOCATION MAPS and FIGURES

1. Masson and Associates, Grading Plans for Pamo Valley Trail and Staging Area, Sheets 1-5.
2. Schaefer Ecological Solutions, Habitat Restoration Plan-Pamo Trail Alignment, Restoration Site (CSS and Aestivating Habitat Elements) Figure 3, June 2018.

GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OF HOLIDAYS UNLESS APPROVED BY TRAFFIC CONTROL PERMIT FROM THE DEVELOPMENT SERVICES DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE UTILITY COMPANY TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE (800) 422-4133, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE WHILE MAINTAINING A 1 FOOT VERTICAL CLEARANCE.
- "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT ISSUING AUTHORITY.
- DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE RESIDENT ENGINEER.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPPING DAMAGED DURING CONSTRUCTION.
- PRIOR TO SITE DISTURBANCE, CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRECONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO, CONSTRUCTION MANAGEMENT AND FIELD ENGINEERING DIVISION (858) 627-3200.
- CONTRACTOR MAY PERFORM SITE SURVEY AND UTILITY MARK OUT SERVICES PRIOR TO THE PRECONSTRUCTION MEETING.
- PRIOR TO DEMOLITION, CONTRACTOR SHALL FURNISH THE RESIDENT ENGINEER WITH A LETTER FROM A LICENSED LAND SURVEYOR THAT HAS RESEARCHED AVAILABLE RECORDS AND FIELD INSPECTED THE SITE, STATING THAT NO SURVEY MONUMENTS EXIST IN THE AREA TO DEMOLISHES OR WILL BE DISTURBED OR DESTROYED DURING CONSTRUCTION.
- IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION SHALL BE NOTIFIED IN WRITING AT LEAST 7 DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACING VERTICAL CONTROL BENCHMARKS DESTROYED BY CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ALL SURVEY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY CONSTRUCTION.
- PRIOR TO CONSTRUCTION, SURVEY MONUMENTS THAT ARE LOCATED IN THE CONSTRUCTION AREA SHALL BE TIED-OUT AND REFERENCED BY A LAND SURVEYOR.
- UPON COMPLETION OF CONSTRUCTION, ALL DESTROYED SURVEY MONUMENTS ARE REQUIRED TO BE REPLACED, AND A CORNER RECORD OR RECORD OF SURVEY SHALL BE PREPARED AND FILED WITH THE COUNTY SURVEYOR AS REQUIRED BY THE PROFESSIONAL LAND SURVEYOR ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA.
- CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- CONTRACTOR SHALL HAVE EMERGENCY MATERIAL AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHERE FLOW MAY GENERATE EROSION AND SEDIMENT POLLUTION.
- MANHOLES AND PULL BOX COVER SHALL BE LABELED "NAME OF COMPANY."

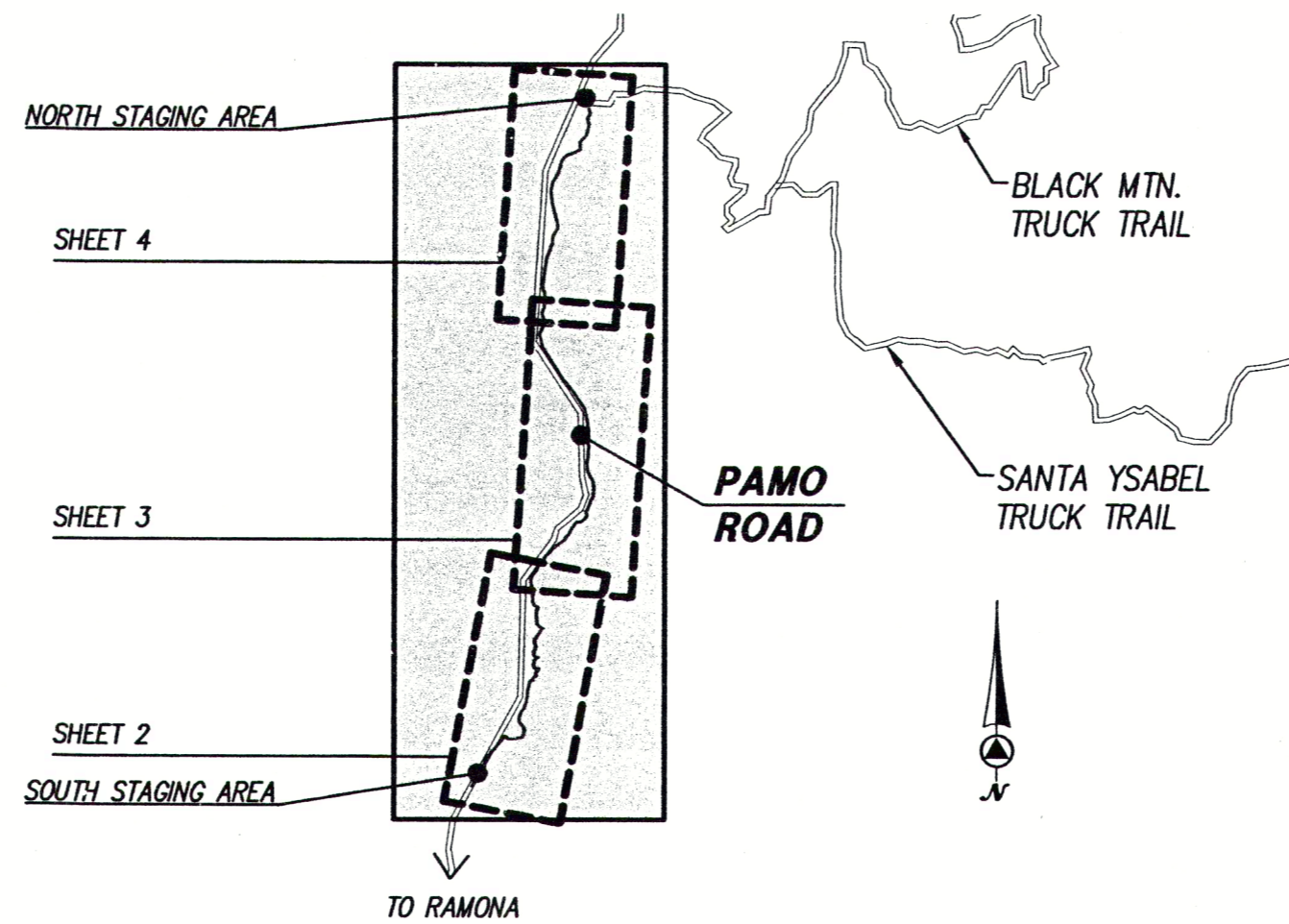
GRADING NOTES (N/A)

- GRADING AS SHOWN ON THESE PLANS SHALL BE IN CONFORMANCE WITH CURRENT STANDARD SPECIFICATIONS AND CHAPTER 14, ARTICLE 2, DIVISION 1, OF THE SAN DIEGO MUNICIPAL CODE.
- PLANT AND IRRIGATE ALL CUT AND FILL SLOPES AS REQUIRED BY ARTICLE 2, DIVISION 4, SECTION 142.0411 OF THE SAN DIEGO LAND DEVELOPMENT CODE AND ACCORDING TO SECTION IV OR THE LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS.
- GRADED, DISTURBED, OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED, COVERED BY STRUCTURE, OR PLANTED FOR A PERIOD OVER 90 DAYS SHALL BE TEMPORARILY RE-VEGETATED WITH A NON-IRRIGATED HYDROSEED MIX, GROUND COVER, OR EQUIVALENT MATERIAL. SEE SHEET FOR MIX AND SPECIFICATIONS.

GROUND WATER DISCHARGE NOTES (N/A)

- ALL GROUND WATER EXTRACTION AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2015-0013 NPDES CAG919003.
- THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATION AND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMMODATE THE INCREASED RATES.
- ALL GROUND WATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2015-0013 NPDES CAG919003.

**GRADING PLANS FOR:
PAMO VALLEY TRAIL
AND STAGING AREA**



KEY MAP

N.T.S.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

MASSON & ASSOCIATES, INC.
200 E. WASHINGTON, SUITE 200
ESCONDIDO CA, 92025
PH: (760) 741-3570
FX: (760) 741-1786



B. Tait C032247 12/31/18 4/26/17
BRUCE A. TAIT R.C.E. NO. EXP. DATE

TRAIL MAINTENANCE NOTE

TRAIL & STAGING AREA MAINTENANCE AND MAINTENANCE OF ALL RELATED IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PROVIDED BY SAN DIEGUITO RIVER PARK JPA.

OWNER/APPLICANT

SAN DIEGUITO RIVER PARK JPA
18372 SYCAMORE CREEK RD.
ESCONDIDO, CA 92025

CONTACT:
SHAWNA ANDERSON
858-674-2275, EXT. 13
FAX: 858-674-2280

SITE ADDRESS

N/A

TOPOGRAPHY SOURCE

USGS

TOTAL DISTURBED AREA

TOTAL SITE DISTURBED AREA = 3.05 AC

GRADING QUANTITIES (N/A)

NO TRAIL GRADING PROPOSED, ONLY MINOR LEVELING. TRAIL AND STAGING AREAS TO BE ESTABLISHED ON EXISTING GROUND

ASSESSORS PARCEL NUMBERS

243-090-03
243-130-01
243-180-01, 06
244-060-05, 06

EXISTING AND PROPOSED LEGAL DESCRIPTION

WITHIN SECTIONS 11,14,23 & 26 OF TOWNSHIP 12 SOUTH RANGE 1 EAST.

SHEET INDEX

SHEET DESCRIPTION	SHEET #
TITLE SHEET	SHEET 1
NOTES	SHEET 2
TRAIL AND SOUTH STAGING AREA	SHEET 3
TRAIL ROUTE	SHEET 4-5
EROSION CONTROL PLAN	SHEET 6-8

STORM WATER PROTECTION NOTES

- THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2013-0007; AND RISK LEVEL/TYPE: CHECK ONE BELOW
 - WPCP
 - CGP RISK LEVEL 1
 - CGP RISK LEVEL 2
 - CGP RISK LEVEL 3
 - CGP LUP TYPE 1
 - CGP LUP TYPE 2
 - CGP LUP TYPE 3
- WQID NO: 9 37C379625
- CHECK ONE
 - THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT, THEREFORE A WEATHER TRIGGERED ACTION PLAN (WTAP) IS REQUIRED.
 - THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE (5) ACRES PER PHASE.
 - NOT APPLICABLE
- THE PERMITEE SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP OR SWPPP AS APPLICABLE.
- WATERSHED: SAN DIEGUITO
- HYDRAULIC SUB AREA NAME: PAMO_905.5Q
- HYDRAULIC SUB AREA NUMBER: 905.5Q

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PMPI070116-01	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PMPI070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLICWORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PMPI092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PMPI092816-05	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECIFICATIONS, 2015 EDITION

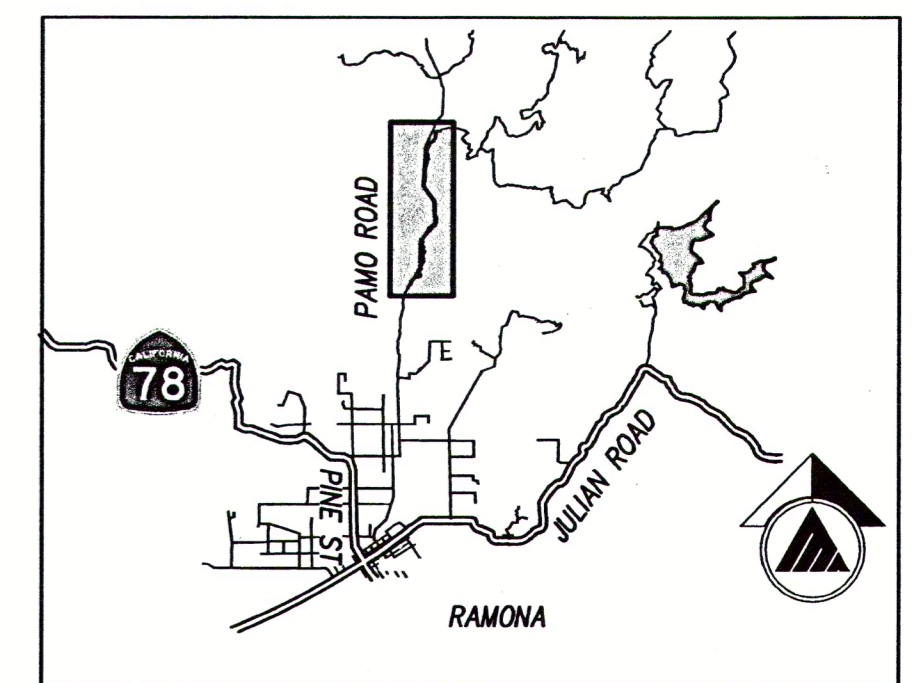
STANDARD DRAWINGS:

DOCUMENT NO.	DESCRIPTION
PMPI070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PMPI092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

LEGEND

PROPOSED IMPROVEMENTS

IMPROVEMENT	SYMBOL
TRAIL CULVERT CROSSING SEE DETAIL SHEET 5 (PRIVATE)	
TRAIL (SEE TYP. TRAIL DETAIL)	
DIRECTION OF FLOW	
WIRE FENCING PRIVATE	
SELF-CLOSING GATE PRIVATE	
VEGETATED STRIP PRIVATE	

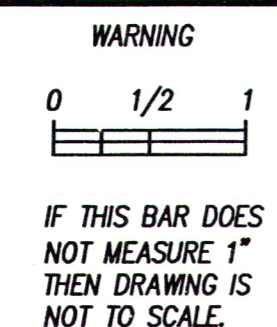


VICINITY MAP

NO SCALE

ENGINEERING PERMIT NO: 1807355
DISCRETIONARY PERMIT NO: SDPNO. 1355502
WQID NO: 9 37C379625
RETAINING WALL PROJECT NO: NA
CONSTRUCTION SITE STORM WATER PRIORITY: HIGH

CONSTRUCTION CHANGE TABLE				
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.



DEVELOPMENT SERVICES DEPARTMENT

Planning ■ Engineering ■ Surveying Solved.
200 E. Washington Ave., Suite 200
Escondido, CA 92025
O. 760.741.3570
F. 760.741.1786
www.masson-assoc.com

STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)

PRIVATE CONTRACT

**TITLE SHEET FOR:
PAMO VALLEY TRAIL**

WITHIN SECTIONS 11,14,23 & 26 OF TOWNSHIP 12 SOUTH RANGE 1 EAST.

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 1 OF 8 SHEETS	L.O. NO. _____ PROJECT NO. 515861
FOR CITY ENGINEER: <i>[Signature]</i> DATE: 5/11/17	V.T.M. _____
DESCRIPTION BY APPROVED DATE FILMED	1982-6376 NAD83 COORDINATES
AS-BUILTS	342-1816 LAMBERT COORDINATES
CONTRACTOR INSPECTOR	DATE STARTED _____ DATE COMPLETED _____

39740 1-D

CONSTRUCTION BMP GENERAL NOTES

PRIOR TO ANY SOIL DISTURBANCE, TEMPORARY EROSION AND SEDIMENT CONTROL SHALL BE INSTALLED BY THE PERMITTEE OR QUALIFIED PERSON(S) AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE CITY OF SAN DIEGO "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCL) FOR CONSTRUCTION LEVEL BMP'S AND, IF APPLICABLE, THE WATER QUALITY TECHNICAL REPORT (WQTR) FOR POST CONSTRUCTION TREATMENT CONTROL BMP'S.
2. THE PERMITTEE SHALL INSTALL AND MAINTAIN ALL STORM DRAIN INLETS. INLET PROTECTION IN THE PUBLIC RIGHT OF WAY MAY BE TEMPORARILY REMOVED WHERE IT IS PRONE TO FLOODING PRIOR TO A RAIN EVENT AND REINSTALLED AFTER RAIN IS OVER.
3. ALL CONSTRUCTION BMP'S SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
4. THE PERMITTEE SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, AREAS FOR WHICH THE PERMITTEE OR QUALIFIED PERSON CAN PROVIDE EROSION AND SEDIMENT CONTROL MEASURES.
5. THE PERMITTEE IS RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER QUALITY MEASURES AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED SWPPP/WPCL WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, CIVIL PENALTIES AND/OR STOP WORK NOTICES.
6. THE PERMITTEE OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT, DEBRIS AND MUD ON AFFECTED AND ADJACENT STREET(S) AND WITHIN STORM DRAIN SYSTEM DUE TO CONSTRUCTION VEHICLES/EQUIPMENT AND CONSTRUCTION ACTIVITY AT THE END OF EACH WORK DAY.
7. THE PERMITTEE SHALL PROTECT NEW AND EXISTING STORM WATER CONVEYANCE SYSTEMS FROM SEDIMENTATION, CONCRETE RINSE, OR OTHER CONSTRUCTION RELATED DEBRIS AND DISCHARGES WITH THE APPROPRIATE BMP'S THAT ARE ACCEPTABLE TO THE ENGINEER AND AS INDICATED IN THE SWPPP/WPCL.
8. THE PERMITTEE OR QUALIFIED PERSON SHALL CLEAR DEBRIS, SILT AND MUD FROM ALL DITCHES AND SWALES PRIOR TO AND AFTER EACH RAIN EVENT.
9. IF A NON-STORM WATER DISCHARGE LEAVES THE SITE, THE PERMITTEE SHALL IMMEDIATELY STOP THE ACTIVITY AND REPAIR THE DAMAGES. THE PERMITTEE SHALL IMMEDIATELY NOTIFY THE ENGINEER OF THE DISCHARGE, AS SOON AS PRACTICAL, ANY AND ALL WASTE MATERIAL, SEDIMENT AND DEBRIS FROM EACH NON STORM WATER DISCHARGE SHALL BE REMOVED FROM THE STORM DRAIN CONVEYANCE SYSTEM AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
10. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID DEPLOYMENT OF CONSTRUCTION BMP'S WHEN RAIN IS IMMINENT.
11. THE PERMITTEE SHALL RESTORE AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMP'S TO WORKING ORDER YEAR ROUND.
12. THE PERMITTEE SHALL INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DUE TO GRADING INACTIVITY OR UNFORESEEN CIRCUMSTANCES TO PREVENT NON-STORM WATER AND SEDIMENT-LADEN DISCHARGES.
13. THE PERMITTEE SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
14. ALL EROSION AND SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED SWPPP/WPCL SHALL BE INSTALLED AND MAINTAINED. ALL EROSION AND SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE PROPERLY DOCUMENTED AND INSTALLED TO THE SATISFACTION OF THE RESIDENT ENGINEER.
15. UPON NOTIFICATION BY THE RESIDENT ENGINEER, THE PERMITTEE SHALL ARRANGE FOR MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (PERMITTEE, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION AND SEDIMENT CONTROL MEASURES AND OTHER BMP'S RELATIVE TO ANTICIPATED CONSTRUCTION ACTIVITIES.
16. THE PERMITTEE SHALL CONDUCT VISUAL INSPECTIONS DAILY DURING THE RAINY SEASON AND MAINTAIN ALL BMP'S AS NEEDED. VISUAL INSPECTIONS AND MAINTENANCE OF ALL BMP'S SHALL BE CONDUCTED BEFORE, DURING AND AFTER EVERY RAIN EVENT AND EVERY 24 HOURS DURING ANY PROLONGED RAIN EVENT. THE PERMITTEE SHALL MAINTAIN AND REPAIR ALL BMP'S AS SOON AS POSSIBLE AS SAFETY ALLOWS.
17. CONSTRUCTION ENTRANCE AND EXIT AREA. TEMPORARY CONSTRUCTION ENTRANCE AND EXIT AREA SHALL BE ON LEVEL, STABILIZED GROUND. THE ENTRANCE AND EXIT AREA SHALL BE CONSTRUCTED BY OVERLAYING THE STABILIZED ACCESS AREA WITH 3 TO 6" DIAMETER STONES. THE AREA SHALL BE MINIMUM 50' LONG X 30' WIDE. IN LIEU OF STONE COVERED AREA, THE CONTRACTOR MAY CONSTRUCT RUMBLE RACKS OF STEEL PANELS WITH RIDGES MINIMUM 20' LONG X 30' WIDE CAPABLE OF PREVENTING THE MIGRATION OF CONSTRUCTION MATERIALS INTO THE TRAVELED WAYS.
18. PERFORMANCE STANDARDS. THE PERMITTEE SHALL BE RESPONSIBLE FOR IMPLEMENTING WATER POLLUTION CONTROL MEASURES BASED ON PERFORMANCE STANDARDS. PERFORMANCE STANDARDS SHALL INCLUDE:
 - A. NON-STORM WATER DISCHARGES FROM THE SITE SHALL NOT OCCUR TO THE MEP. STORM WATER DISCHARGES SHALL BE FREE OF POLLUTANTS INCLUDING SEDIMENT TO THE MEP.
 - B. EROSION SHALL BE CONTROLLED BY ACCEPTABLE BMP'S TO THE MEP. IF RILLS AND GULLIES APPEAR THEY SHALL BE REPAIRED AND ADDITIONAL BMP'S INSTALLED TO PREVENT A REOCCURRENCE OF EROSION.
 - C. AN INACTIVE AREA SHALL BE PROTECTED TO PREVENT POLLUTANT DISCHARGES. A SITE OR PORTIONS OF A SITE SHALL BE CONSIDERED INACTIVE WHEN CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD OF 14 OR MORE CONSECUTIVE DAYS.

PRIVATE NOTE

ALL ONSITE, PRIVATE IMPROVEMENTS SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE CITY ENGINEER'S APPROVAL OF THIS DRAWING, IN NO WAY CONSTITUTES AN APPROVAL OF SAID PRIVATE IMPROVEMENTS. A SEPARATE PERMIT FOR SUCH IMPROVEMENTS MAY BE REQUIRED.

TRAIL & STAGING AREA CONSTRUCTION NOTES

THE TRAIL AND STAGING AREA WILL BE ESTABLISHED ON THE EXISTING GROUND SURFACE WITH ONLY MINOR LEVELING PROPOSED (NO GRADING PROPOSED). DRAINAGE COURSE CROSSINGS WITH CULVERTS WILL REQUIRE A MINIMAL AMOUNT OF IMPORTED ROCK AND GRANULAR FILL OVER THE PIPES. THE VEGETATED BUFFER STRIP FOR THE STAGING AREA WILL CONFORM TO THE EXISTING GROUND SURFACE AND SHALL BE PLANTED WITH DROUGHT TOLERANT NATIVE VEGETATION. TRAIL AND STAGING AREA TO BE PROVIDED BY SAN DIEGUITO RIVER PARK, JPA.

STORM WATER REQUIREMENTS

1. THIS PROJECT IS SUBJECT TO MUNICIPAL CODE SECTION 4303 AND ORDER NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100
2. ALL WORK RELATED TO POST-CONSTRUCTION STORMWATER QUALITY SHALL BE IN ACCORDANCE WITH THE STORM WATER QUALITY MANAGEMENT PLAN ENTITLED, PROJECT NAME AND NUMBER, PROJECT APPLICANT PROJECT ADDRESS, PREPARED BY (COMPANY NAME), REPORT DATE.
3. POST-CONSTRUCTION BMP'S ARE REQUIRED, SEE SHEET 3.

SITE DESIGN BMP CHECKLIST FOR STANDARD PROJECTS		FORM I-5	
ALL DEVELOPMENT PROJECTS MUST IMPLEMENT SITE DESIGN BMP'S SD-1 THROUGH SD-8. REFER TO CHAPTER 4 AND APPENDIX E OF THE BMP DESIGN MANUAL FOR INFORMATION TO IMPLEMENT BMP'S SHOWN IN THIS CHECKLIST			
NOTE: ALL SELECTED BMP'S MUST BE SHOWN ON THE CONSTRUCTION PLANS			
SITE DESIGN REQUIREMENT	APPLIED?		
SD-1 MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-2 CONSERVE NATURAL AREAS, SOILS, AND VEGETATION	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-3 MINIMIZE IMPERVIOUS AREA	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-4 MINIMIZE SOIL COMPACTION	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-5 IMPERVIOUS AREA DISPERSION	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
SD-6 RUNOFF COLLECTION	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-7 LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-8 HARVESTING AND USING PRECIPITATION	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
DISCUSSION / JUSTIFICATION FOR ALL "NO" ANSWERS SHOWN ABOVE:			

SOURCE CONTROL BMP CHECKLIST FOR STANDARD PROJECTS		FORM I-4	
ALL DEVELOPMENT PROJECTS MUST IMPLEMENT SITE DESIGN BMP'S SD-1 THROUGH SD-8. REFER TO CHAPTER 4 AND APPENDIX E OF THE BMP DESIGN MANUAL FOR INFORMATION TO IMPLEMENT BMP'S SHOWN IN THIS CHECKLIST			
NOTE: ALL SELECTED BMP'S MUST BE SHOWN ON THE CONSTRUCTION PLANS			
SOURCE CONTROL REQUIREMENT	APPLIED?		
SC-1 PREVENTION OF ILLICIT DISCHARGES INTO THE MS4	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
SC-2 STORM DRAIN STENCILING OR SIGNAGE	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
SC-3 PROTECT OUTDOOR MATERIALS STORAGE AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
SC-4 PROTECT MATERIALS STORED IN OUTDOOR WORK AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
SC-5 PROTECT TRASH STORAGE AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
SC-6 BMP'S BASED ON POTENTIAL SOURCES OF RUNOFF POLLUTANTS			
ON-SITE STORM DRAIN INLETS	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
INTERIOR FLOOR DRAINS AND ELEVATOR SHAFT SUMP PUMPS	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
INTERIOR PARKING GARAGES	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
NEED FOR FUTURE INDOOR & STRUCTURAL PEST CONTROL	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
LANDSCAPE/OUTDOOR PESTICIDE USE	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
POOLS, SPAS, PONDS, DECORATIVE FOUNTAINS, AND OTHER WATER FEATURES	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
FOOD SERVICE	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
REFUSE AREAS	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
INDUSTRIAL PROCESSES	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
OUTDOOR STORAGE OF EQUIPMENT OR MATERIALS	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
VEHICLE/EQUIPMENT REPAIR AND MAINTENANCE	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
FUEL DISPENSING AREA	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
LOADING DOCKS	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
FIRE SPRINKLER TEST WATER	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
MISCELLANEOUS DRAIN OR WASH WATER	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
PLAZAS, SIDEWALKS, AND PARKING LOTS	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
SC-6A: LARGE TRASH GENERATING FACILITIES	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
SC-6B: ANIMAL FACILITIES	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
SC-6C: PLANT NURSERIES AND GARDEN CENTERS	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
SC-6D: AUTOMOTIVE-RELATED USES	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
DISCUSSION / JUSTIFICATION FOR ALL "NO" ANSWERS SHOWN ABOVE:			

ENVIRONMENTAL/MITIGATION REQUIREMENTS:

A. GENERAL REQUIREMENTS

1. PRE-CONSTRUCTION MEETING IS REQUIRED TEN (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT. THE PERMIT HOLDER IS RESPONSIBLE TO ARRANGE AND PERFORM THIS MEETING BY CONTACTING THE CITY RESIDENT ENGINEER (RE) OF THE FIELD ENGINEERING DIVISION AND CITY STAFF FROM MITIGATION MONITORING COORDINATION (MMC). ATTENDEES MUST ALSO INCLUDE THE PERMIT HOLDER'S REPRESENTATIVE(S), JOB SITE SUPERINTENDENT AND THE FOLLOWING CONSULTANTS:

BRUCE A. TAIT, MASSON & ASSOCIATES, INC.

PERMITTEES PROJECT BIOLOGIST AND ARCHEOLOGIST

NOTE:
FAILURE OF ALL RESPONSIBLE PERMIT HOLDER'S REPRESENTATIVES AND CONSULTANTS TO ATTEND SHALL REQUIRE AN ADDITIONAL MEETING WITH ALL PARTIES PRESENT.

- CITY OF SAN DIEGO CONTACT INFORMATION:
a) THE PRIMARY POINT OF CONTACT IS THE RE AT THE FIELD ENGINEERING DIVISION AT 858-627-3200.
b) IT IS ALSO REQUIRED TO CALL THE RE AND MMC AT 858-627-3360 FOR CLARIFICATION OF ENVIRONMENTAL REQUIREMENTS.

2. MMPP COMPLIANCE: THIS PROJECT, PROJECT TRACKING SYSTEM (PTS) #515861 AND ENVIRONMENTAL DOCUMENT: "MITIGATED NEGATIVE DECLARATION FOR THE PAMO VALLEY SEGMENT OF THE COAST TO CREST TRAIL, SCH #2016031069, DATED MAY 20, 2016", SHALL CONFORM TO THE MITIGATION REQUIREMENTS CONTAINED THEREIN AND SHALL BE IMPLEMENTED TO THE SATISFACTION OF DSD'S ENVIRONMENTAL DESIGNER (MMC) AND THE RE. THE REQUIREMENTS MAY NOT BE REDUCED OR CHANGED BUT MAY BE ANNOTATED (I.E. TO EXPLAIN WHEN AND HOW COMPLIANCE IS BEING MET AND LOCATION OF VERIFYING PROOF, ETC.). ADDITIONAL CLARIFYING INFORMATION MAY ALSO BE ADDED TO OTHER RELEVANT PLAN SHEETS AND/OR SPECIFICATIONS AS APPROPRIATE (E.G. SPECIFIC LOCATIONS, TIMES OF MONITORING, METHODOLOGY, ETC.).

NOTE:
PERMIT HOLDER'S REPRESENTATIVES MUST ALERT THE RE AND MMC IF THERE ARE ANY DISCREPANCIES IN THE PLANS, NOTES OR ANY CHANGES DUE TO FIELD CONDITIONS. ALL CONFLICTS MUST BE APPROVED BY THE RE AND MMC BEFORE THE WORK IS PERFORMED.

3. OTHER AGENCY REQUIREMENTS: EVIDENCE OF COMPLIANCE WITH ALL OTHER AGENCY REQUIREMENTS OR PERMITS SHALL BE SUBMITTED TO THE RE AND MMC FOR REVIEW AND ACCEPTANCE PRIOR TO THE BEGINNING OF WORK OR WITHIN ONE (1) WEEK OF THE PERMIT HOLDER OBTAINING DOCUMENTATION OF THOSE PERMITS OR REQUIREMENTS. EVIDENCE SHALL INCLUDE COPIES OF PERMITS, LETTERS OF RESOLUTION OR OTHER DOCUMENTATION ISSUED BY THE RESPONSIBLE AGENCY.

CONSTRUCTION PERMIT DPW2017-RWCONP-80232 AND ENCROACHMENT PERMIT DPW2015-RWENCP-90265.

4. MONITORING EXHIBITS: ALL CONSULTANTS ARE REQUIRED TO SUBMIT TO THE RE AND MMC, A MONITORING EXHIBIT ON A 11"x17" REDUCTION OF THE APPROPRIATE CONSTRUCTION PLAN, SUCH AS SITE PLAN, GRADING, LANDSCAPE, ETC. MARKED TO CLEARLY SHOW THE SPECIFIC AREAS INCLUDING THE LIMIT OF WORK, SCOPE

OF THAT DISCIPLINE'S WORK, AND NOTES INDICATING WHEN IN THE CONSTRUCTION SCHEDULE THAT WORK WILL BE PERFORMED.

WHEN NECESSARY FOR CLARIFICATION, A DETAILED METHODOLOGY OF HOW THE WORK WILL BE PERFORMED SHALL BE INCLUDED.

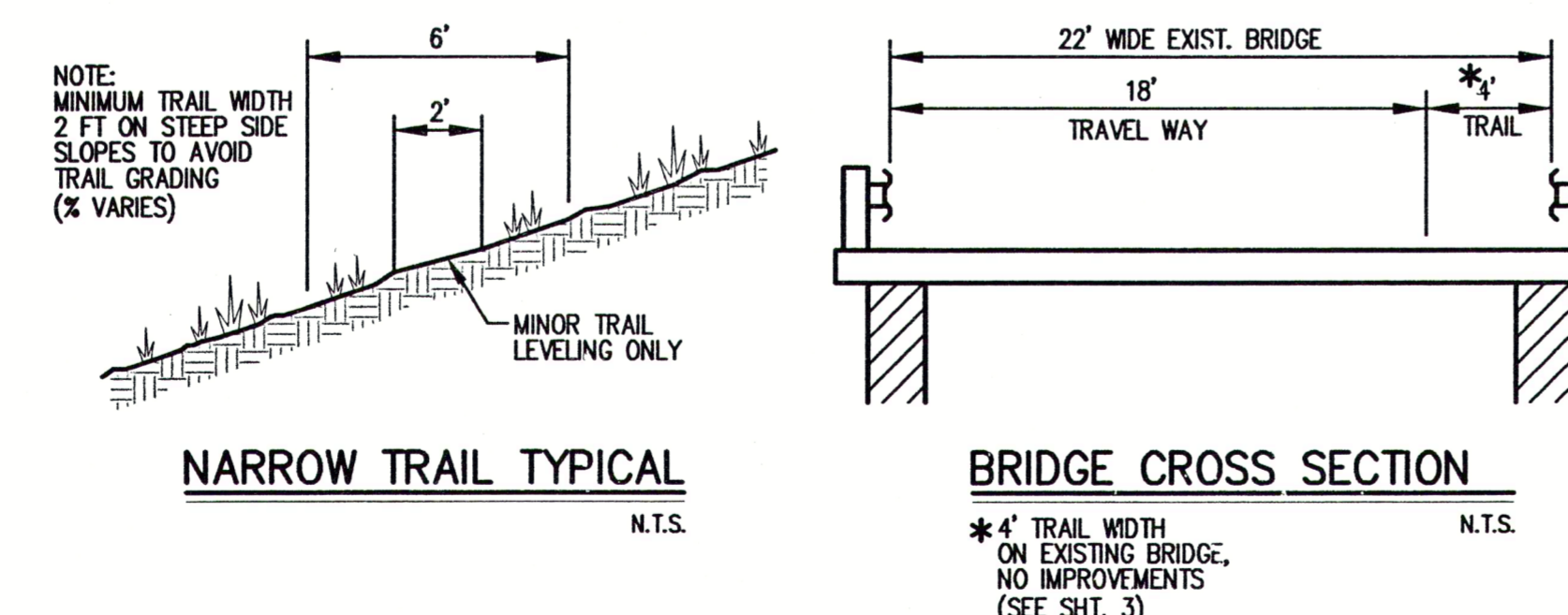
B. ENVIRONMENTAL MITIGATION REQUIREMENTS

BIOLOGICAL RESOURCES

1. PRIOR TO THE START OF CONSTRUCTION, THE CONSTRUCTION LIMITS FOR THE TRAIL PARKING AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING AND SILT FENCING OR FIBER ROLLS TO ENSURE THAT CONSTRUCTION ACTIVITY REMAINS WITHIN THE DEFINED CONSTRUCTION LIMITS.
2. CLEARING AND GRUBBING OF THE TRAIL WITHIN 300 FEET OF BREEDING HABITAT FOR THE LEAST BELL'S VIREO OR SOUTHWESTERN WILLOW FLYCATCHER IN SANTA YSABEL AND TEMESCAL CREEKS SHALL NOT BE DONE DURING THE BREEDING SEASON (COMBINED FROM MARCH 15 THROUGH SEPTEMBER 15) TO AVOID NOISE DISTURBANCE OF ANY BREEDING BIRDS POTENTIALLY OCCURRING IN THE VICINITY.
3. PRIOR TO CONSTRUCTION OF INDIVIDUAL SECTIONS OF TRAIL, THE JPA RANGERS SHALL SURVEY THE AREA FOR ANY BADGER BURROWS WITHIN THE TRAIL FOOTPRINT AND AVOID BURROWS WHERE THEY ARE ENCOUNTERED. IF AN OCCUPIED BADGER BURROW IS ENCOUNTERED DURING CONSTRUCTION, A 100 FOOT BUFFER WILL BE MAINTAINED TO AVOID DISTURBING THE BURROW.
4. PRIOR TO COMMENCING CONSTRUCTION OF THE TRAIL, THE JPA SHALL HIRE A BIOLOGICAL MONITOR WITH EXPERTISE IN ARROYO TOADS. THE BIOLOGIST WILL MONITOR CONSTRUCTION OF THE TRAIL DURING THE AESTIVATING SEASON WHERE IT OCCURS IN POTENTIAL AESTIVATING HABITAT. THE BIOLOGIST WILL CONDUCT A PRE-CONSTRUCTION SURVEY TO IDENTIFY ANY TOADS IN THE CONSTRUCTION FOOTPRINT AND ANY SUCH TOADS SHALL BE AVOIDED. IMPLEMENTATION OF AVOIDANCE MEASURES SHALL BE DONE IN CONSULTATION WITH USFWS.
5. MANURE MANAGEMENT SHALL BE IMPLEMENTED BY INSTALLING A MANURE BIN IN THE STAGING AREA AND SIGNAGE REQUIRING USERS TO CLEAN UP HORSE MANURE. RANGERS SHALL PATROL AND MAINTAIN THE STAGING AREA ON A REGULAR BASIS.
6. THE SAN DIEGUITO RIVER PARK JPA SHALL PROVIDE MITIGATION FOR IMPACTS TO COASTAL SAGE SCRUB AND NON-NATIVE GRASSLAND:

- RESTORE AND ENHANCE 3.24 ACRES OF NATIVE HABITAT PER THE FOLLOWING TABLE:

UPLAND TYPE	IMPACT (ACRES)	MITIGATION RATIO		MITIGATION RATIO	
		OUTSIDE MHPA	INSIDE MHPA	OUTSIDE MHPA	INSIDE MHPA
DIEGAN COASTAL SAGE SCRUB	0.36	1.5:1	0.54	1:1	0.36
NON-NATIVE GRASSLAND	2.70	1:1	2.70	0.5:1	1.35
TOTAL	3.06		3.24		1.71



BRUCE A. TAIT
C032247
R.C.E. NO.
12/31/18
EXP.
4/26/17
DATE

Planning ■ Engineering ■ Surveying
Solved.
200 E. Washington Ave., Suite 200
Escondido, CA 92025
O. 760.741.3570
F. 760.741.1786
www.masson-assoc.com

MASSON & ASSOCIATES, INC.

PRIVATE CONTRACT

TRAIL PLANS FOR PAMO VALLEY TRAIL

WITHIN SECTIONS 11,14,23 & 26 OF TOWNSHIP 12 SOUTH RANGE 1 EAST.

CITY OF SAN DIEGO, CALIFORNIA
DEVELOPMENT SERVICES DEPARTMENT
SHEET 2 OF 8 SHEETS

I.O. NO. _____
PROJECT NO. 515861

FOR CITY ENGINEER DATE 5/11/17 V.T.M. _____

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	MAI			

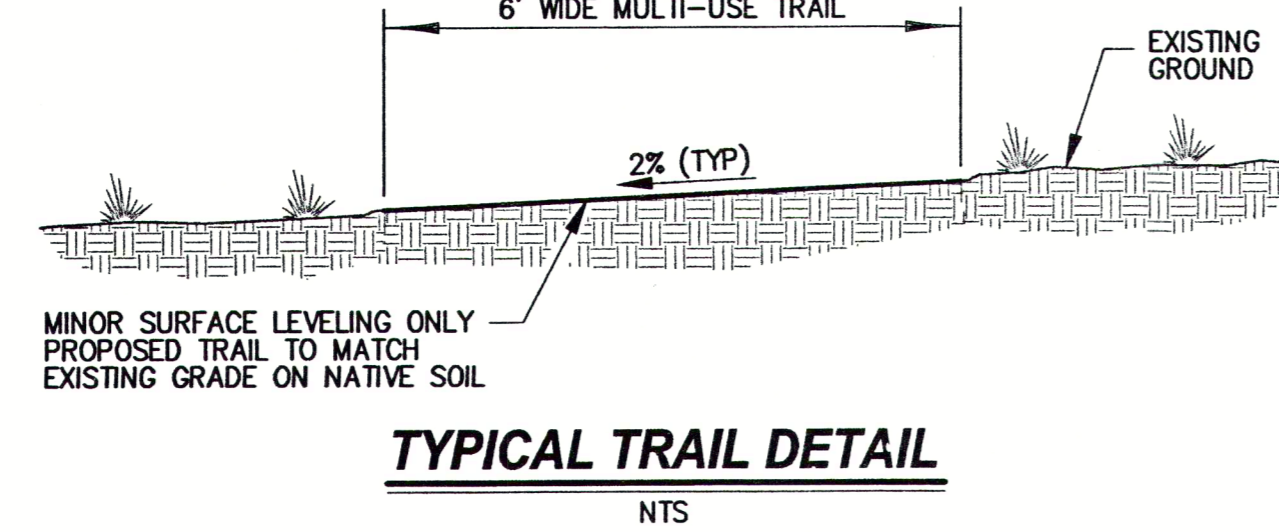
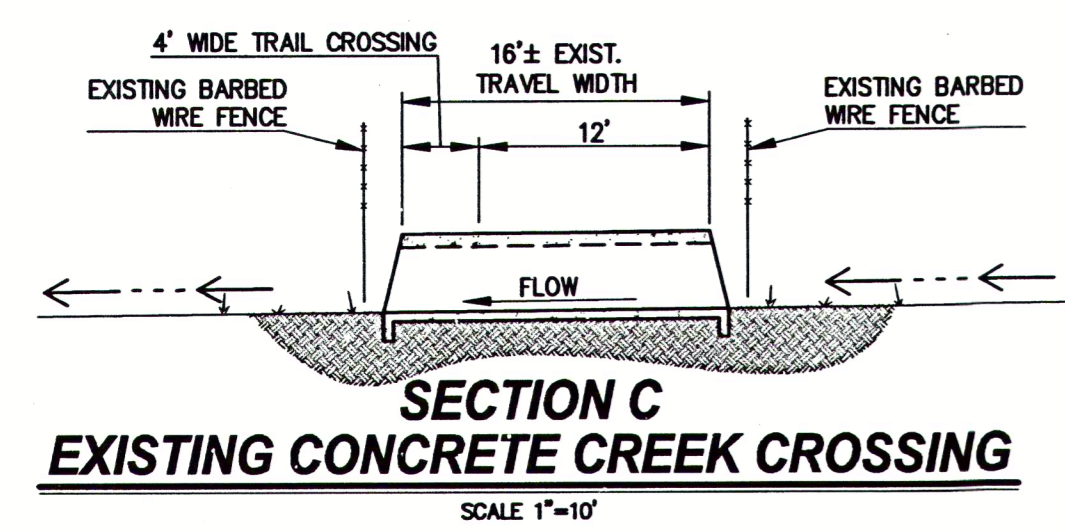
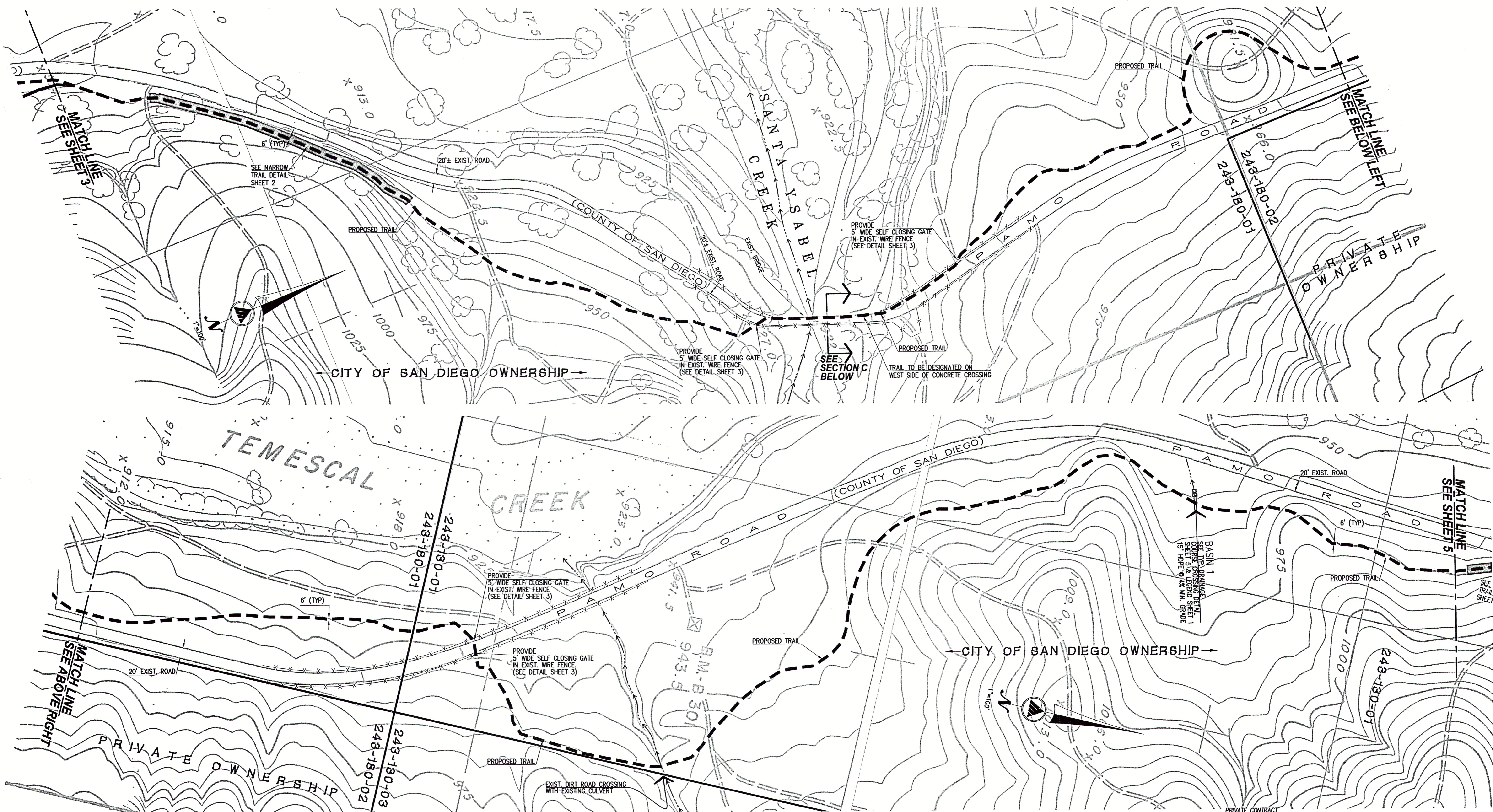
AS-BUILTS

CONTRACTOR DATE STARTED _____
INSPECTOR DATE COMPLETED _____

1982-6376
NAD83 COORDINATES
342-1816
LAMBERT COORDINATES

39740 2-D

DATE: Apr. 26, 17 11:00am By: jehd FILE: V:\B161\1517\00\Construct\08145-01 Plans Tool - TS.dwg



BRUCE A. TAIT
 0032247 R.C.E. NO.
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 4/20/17 DATE

Planning ▲ Engineering ▲ Surveying Solved.
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 O. 760.741.3570
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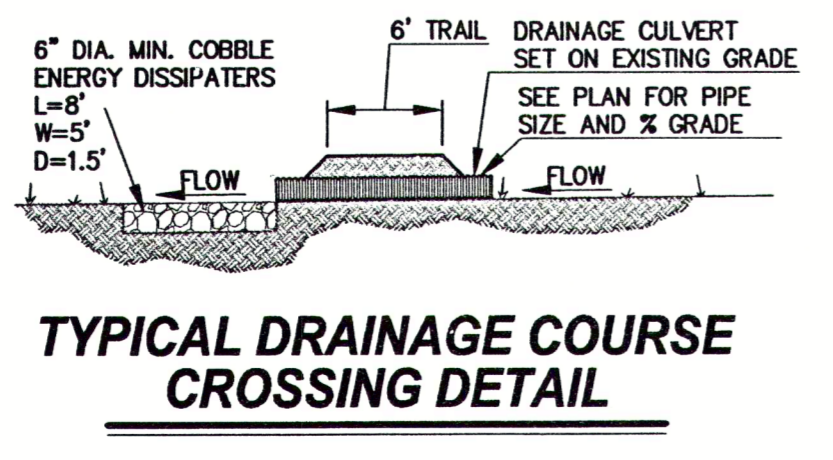
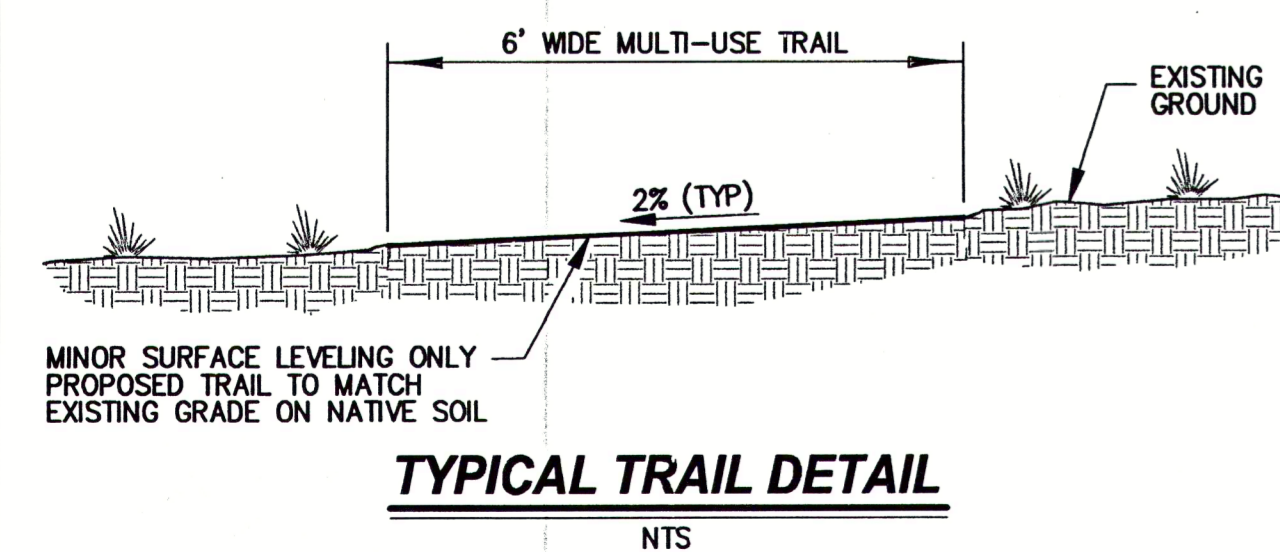
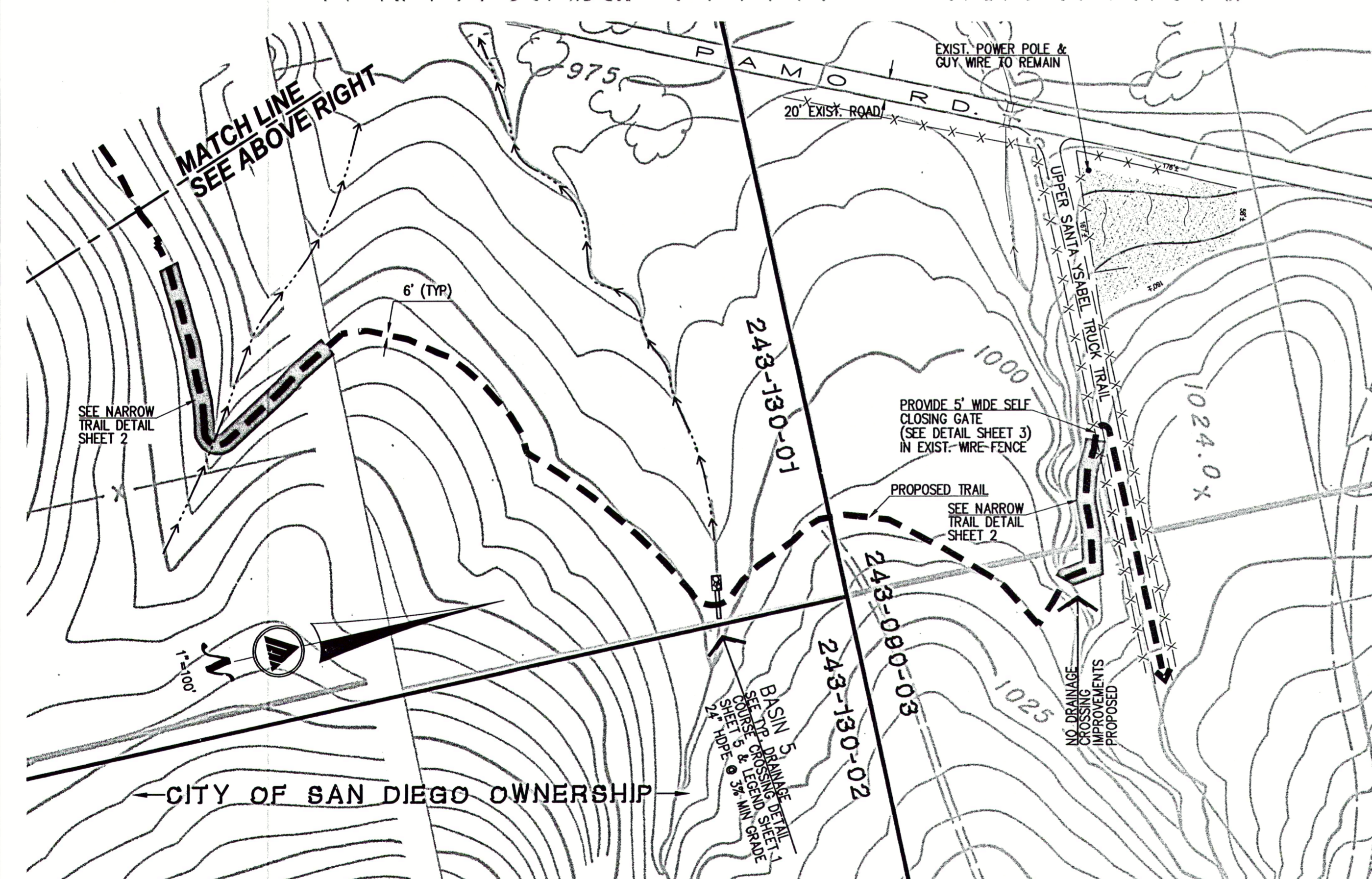
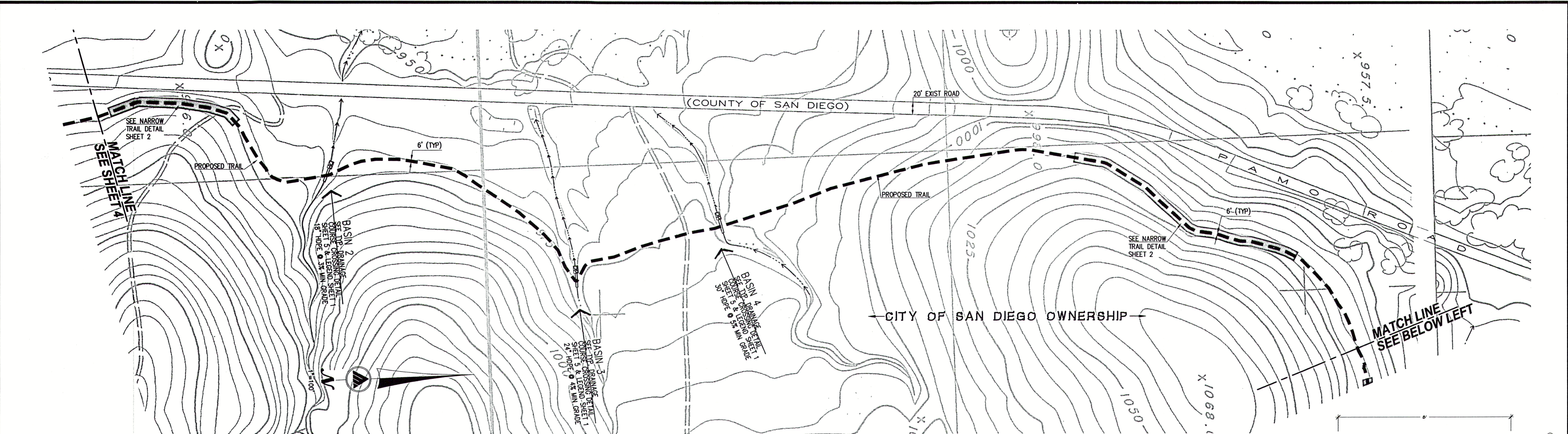
MASSON & ASSOCIATES, INC.

TRAIL PLANS FOR:
PAMO VALLEY TRAIL

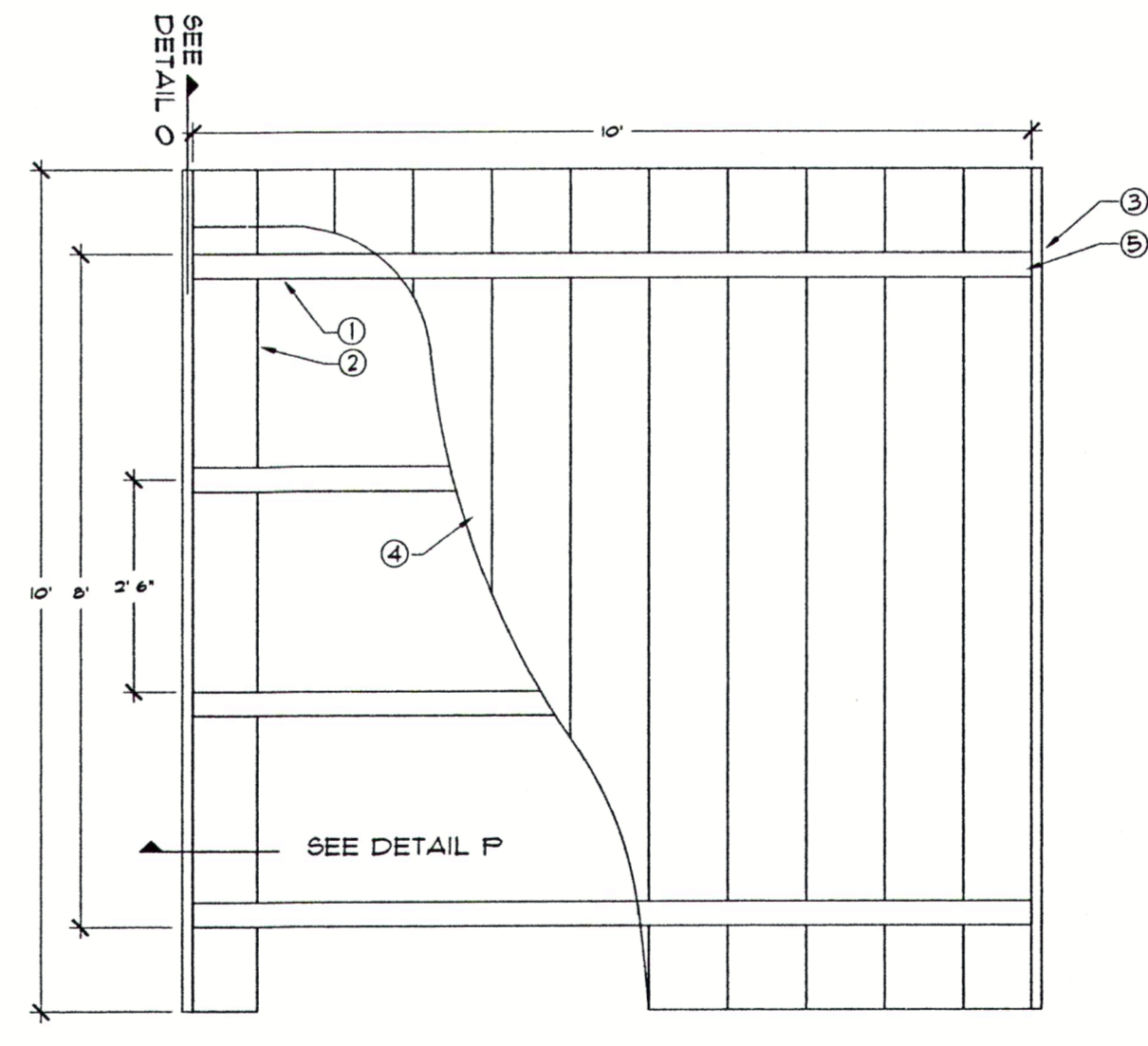
WITHIN SECTIONS 11,14,23 & 26 OF TOWNSHIP 12 SOUTH RANGE 1 EAST.

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 4 OF 8 SHEETS		I.O. NO.	PROJECT NO.
FOR CITY ENGINEER		5/1/17	DATE
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	MAI		
AS-BUILTS			
CONTRACTOR	DATE STARTED	1982-6376 NAD83 COORDINATES	
INSPECTOR	DATE COMPLETED	342-1816 LAMBERT COORDINATES	
		39740 4-D	

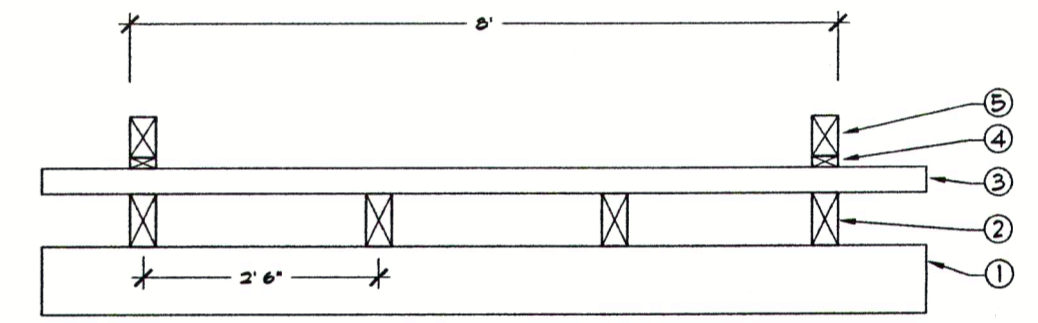
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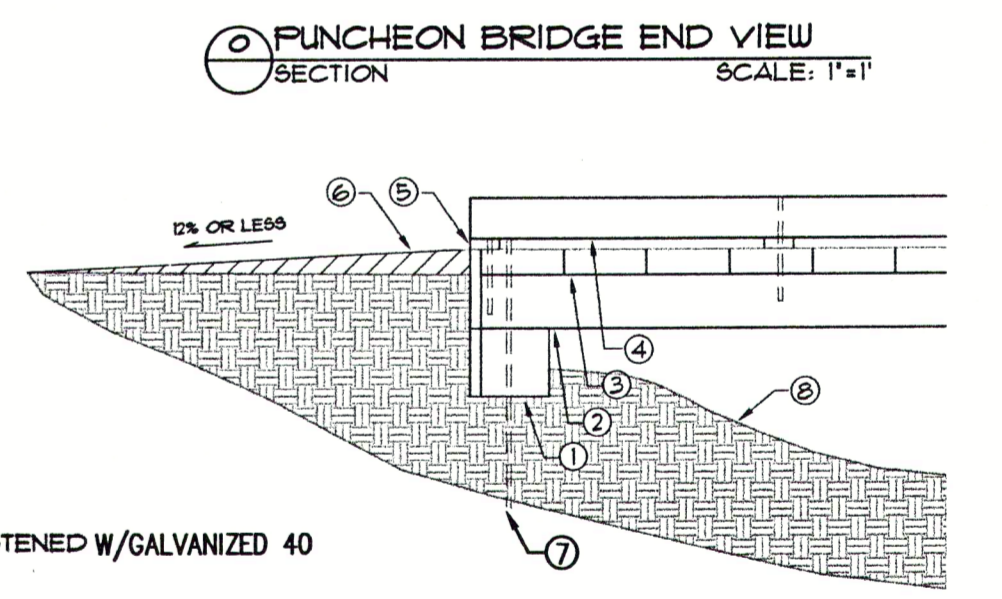
- ① 4"x8" REDWOOD STRINGER
- ② 10"x10" REDWOOD MIDSILL
- ③ SOIL DAM OR FACER BOARD
- ④ 4' x 12" ROUGH SPLIT TREAD FASTENED W/GALVANIZED 40 D NAILS
- ⑤ BULL RAIL



TYPICAL PUNcheon BRIDGE DETAIL
NTS



- ① 10' x 10' REDWOOD MIDSILL
- ② 4' x 8' REDWOOD STRINGER
- ③ 4' x 12' ROUGH SPLIT TREAD FASTENED W/GALVANIZED 40 D NAILS
- ④ 2' x 4' STOCK
- ⑤ 4' x 6' BULL RAIL



- ① 10' x 10' REDWOOD MIDSILL
- ② 4' x 8' REDWOOD STRINGER
- ③ 4' x 12' ROUGH SPLIT TREAD FASTENED W/GALVANIZED 40 D NAILS
- ④ 4' x 6' BULL RAIL
- ⑤ 2' x 4' STOCK
- ⑥ FILL AS NECESSARY TO MEET GRADE
- ⑦ 5/8" REBAR
- ⑧ EXISTING GRADE

PUNcheon BRIDGE TO TRAIL TRANSITION SECTION
SCALE: 1"=1'









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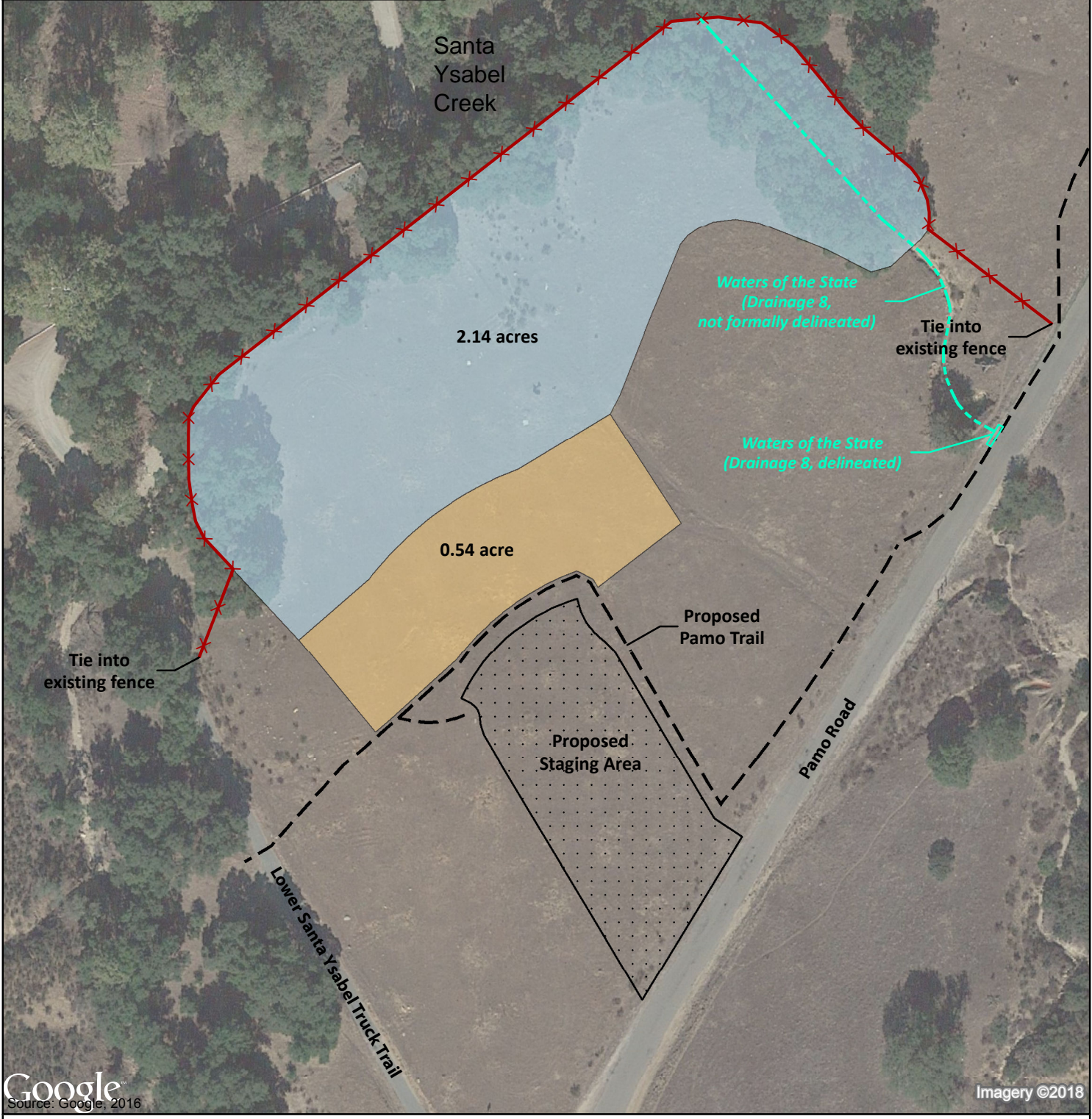


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CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 5 OF 8 SHEETS			I.O. NO. _____ PROJECT NO. 515861
FOR CITY ENGINEER: <i>[Signature]</i> DATE: 5/1/17			V.T.M. _____
DESCRIPTION	BY	APPROVED	DATE FILMED
AS-BUILTS	MAI		
CONTRACTOR	DATE STARTED	1982-6376 NAD83 COORDINATES	
INSPECTOR	DATE COMPLETED	342-1816 LAMBERT COORDINATES	
			39740 5-D

DATE: Apr 26, 17 1:02pm By: jordan FILE: \\jordan\FILES\108\8143\PROJ\Construct\CP\18143-02 Pamo Trail - CP.dwg

-  Proposed Pamo Trail
-  Proposed Staging Area
-  Cattle Fence
-  Arroyo Toad Aestivating Habitat Mitigation
-  Coastal Sage Scrub Restoration Area
-  Waters of the State

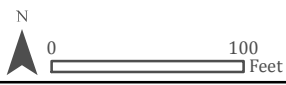


Google
Source: Google, 2016

Imagery ©2018

Pamo Trail BTR . D140320

Figure 3
Restoration Site (CSS and Aestivating Habitat Elements)



PAMO TRAIL