CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN DIEGO REGION

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

PROJECT: Morena Pipeline Project

Certification Number R9-2019-0029

WDID: 9000003342

APPLICANT: City of San Diego

525 B Street 750 (MS 908A) San Diego, CA 92101 Reg. Meas. ID: 423323 Place ID: 849903 Party ID: 537145 Person ID: 549084

ACTION:

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

PROJECT DESCRIPTION

An application dated August 1, 2018 was submitted by the City of San Diego (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (33 U.S.C. § 1341) for the proposed Morena Pipeline Project (Project). The Applicant has also applied for Clean Water Act section 404 Nationwide Permit No. 7 and section 404 Nationwide Permit No. 12 from the United States Army Corps of Engineers for the Project (USACE File Nos. SPL-2017-006-49).

The Project consists of the installation of a new water line to provide a redundant source of water transition to the Coastal Zone of La Jolla and Pacific Beach for supply reliability. The existing water main is over 60 years old and has had numerous failures and does not have enough capacity. The project is located in the City of San Diego, San Diego County, California. The Project's center reading is latitude 32°45'16, longitude -117°121'21"

The Applicant has paid all required fees for this Certification in the amount of \$1500.00. On December 6, 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 Applicant proposes to replace an old and failing 16-inch cast iron water main with a new 36-inch water line that will provide a redundant source of water transmission and the

replacement of an existing 16-inch pipe. The 36-inch pipeline will cross a concrete portion of Tecolate Creek. The trench will be cross 35 feet of the creek at a depth of 20 feet. The pipeline will be installed through an open trench installation by excavating half of the channel while diverting flow to the other side of the channel. Water diversion will consist of an aqua barrier, pumps, and highline bypass. Gravel bag berms will be placed at the downstream of the work area to prevent any sediment or pollutants from leaving the site. A temporary construction ramp will be placed on the surface of the concrete-lined channel and will be constructed of clean gravel. There are no permanent impacts and 0.05 acre of temporary impact to non-wetland waters of the United States and/or State.

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 temporary impacts to waters of the United States and /or State affected by the Project. 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. 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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- 1. Definitions
- 2. Project Figures and Plans

Morena Pipeline Project
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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:

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I. STANDARD CONDITIONS

Pursuant to section 3860 of title 23 of the California Code of Regulations, the following three standard conditions apply to <u>all</u> 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. R9-2019-0029 (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.shtm

- F. **Project Modification**. The Applicant must submit any changes to the Project, including Project operation, which would have a significant or material effect on the findings, conclusions, or conditions of this Certification, to the San Diego Water for prior review and written approval. If the San Diego Water Board is not notified of a significant change to the Project, it will be considered a violation of this Certification
- G. **Certification Distribution Posting.** During Project construction, the Applicant must maintain a copy of this Certification at the Project site. This Certification must be available at all times to site personnel and agencies. A copy of this Certification shall also be provided to any contractor or subcontractor performing construction work, and the copy shall remain in their possession at the Project site.
- H. **Inspection and Entry**. The Applicant must allow the San Diego Water Board or the State Water Resources Control Board, and/or their authorized representative(s) (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents as may be required under law, to:
 - 1. Enter upon the Project or Compensatory Mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Certification;

- 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Certification;
- 3. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Certification; and
- 4. Sample or monitor, at reasonable times, for the purposes of assuring Certification compliance, or as otherwise authorized by the Clean Water Act or Water Code, any substances or parameters at any location.
- I. Enforcement Notification. In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
- J. **Certification Actions**. This Certification may be modified, revoked and reissued, or terminated for cause including but not limited to the following:
 - 1. Violation of any term or condition of this Certification;
 - Monitoring results indicate that continued Project activities could violate water quality objectives or impair the beneficial uses of the Tecolote Creek or its tributaries;
 - 3. Obtaining this Certification by misrepresentation or failure to disclose fully all relevant facts;
 - 4. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; and
 - 5. Incorporation of any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.

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

- K. **Duty to Provide Information**. The Applicant shall furnish to the San Diego Water Board, within a reasonable time, any information which the San Diego Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Certification or to determine compliance with this Certification.
- L. **Property Rights**. This Certification does not convey any property rights of any sort, or any exclusive privilege.

City of San Diego Morena Pipeline Project Certification No. R9-2019-0029

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. CONSTRUCTON AND POST CONSTRUCTON BEST MANAGEMENT PRACTICES

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

IV. PROJECT IMPACTS AND COMPENSATORY MITIGATION

A. **Project Impacts and Compensatory Mitigation.** Unavoidable Project impacts to Tecolote Creek and its unnamed tributaries within the Penasquitos 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)	Ratio Mitigation (area for mitigated :area (linear ft.)			
Temporary Impacts ¹								
Streambed and Riparian	0.05 ²	89 ²	N/A	NA	N/A	N/A		

NA - Not applicable

- 1. All areas of temporary impacts must be restored to pre-project contours and re-vegetated with native species.
- 2. Temporary impacts associated with trenching for pipelines underneath Tecolote Creek.
 - 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 revegetation 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 **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/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. R9-2019-0029:849903:ngergans 2375 Northside Drive, Suite 100 San Diego, California 92108

Each electronic document must be submitted as a single file, in Portable Document Format (PDF), and converted to text searchable format using Optical Character Recognition (OCR). All electronic documents must include scanned copies of all signature pages; electronic signatures will not be accepted. Electronic documents submitted to the San Diego Water Board must include the following identification numbers in the header or subject line: Certification No. R9-2019-0029: 849903:ngergans.

- 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 City of San Diego is the Lead Agency under the California Environmental Quality Act (CEQA) (Public Resources Code section 21000, et seq.) section 21067, and CEQA Guidelines (California Code of Regulations, title 14, section 15000 et seq.) section 15367, and has filed a Notice of Determination dated November 18, 2011 for Mitigated Negative Declaration (MND) titled Mitigated Negative Declaration No. 255100 (State Clearing House Number 2011091045). The Lead Agency has determined the Project Certification No. R9-2019-0029

will have a significant effect on the environment and mitigation measures were made a condition of the Project.

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- B. The San Diego Water Board is a Responsible Agency under CEQA (Public Resources Code section 21069; CEQA Guidelines section 15381). The San Diego Water Board has considered the Lead Agency's MND and finds that the Project as proposed will have a significant effect on resources within the San Diego Water Board's purview.
- C. The San Diego Water Board has required mitigation measures as a condition of this Certification to avoid or reduce the environmental effects of the Project to resources within the Board's purview to a less than significant level.
- D. As a Responsible Agency under CEQA, the San Diego Water Board will file a Notice of Determination in accordance with CEQA Guidelines section 15096 subdivision(i).

VIII. SAN DIEGO WATER BOARD CONTACT PERSON

Nicole Gergans, Environmental Scientist
California Regional Water Quality Control Board, San Diego Region
2375 Northside Drive, Suite 100
San Diego, California 92108

Telephone: 619-521-3969

Email: nicole.gergans@waterboards.ca.gov

IX. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **Morena Pipeline Project** (Certification No. R9-2019-0029) will comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plans"), 306 ("National Standards of Performance"), and 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Board Order No. 2003-0017-DWQ, "Statewide General Waste Discharge Requirements for Dredged or Fill Discharges that have Received State Water Quality Certification (General WDRs)," which requires compliance with all conditions of this Water Quality Certification. Please note that enrollment under Order No. 2003-017-DWQ is conditional and, should new information come to our attention that indicates a water quality problem, the San Diego Water Board may issue individual waste discharge requirements at that time.

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

I, David W. Gibson, Executive Officer, do hereby certify the forgoing is a full, true, and correct copy of Certification No. R9-2019-0029 issued on February 4, 2019.

DAVID W. GIBSON

Executive Officer

San Diego Water Board

4 February 2019

Date

ATTACHMENT 1

DEFINITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

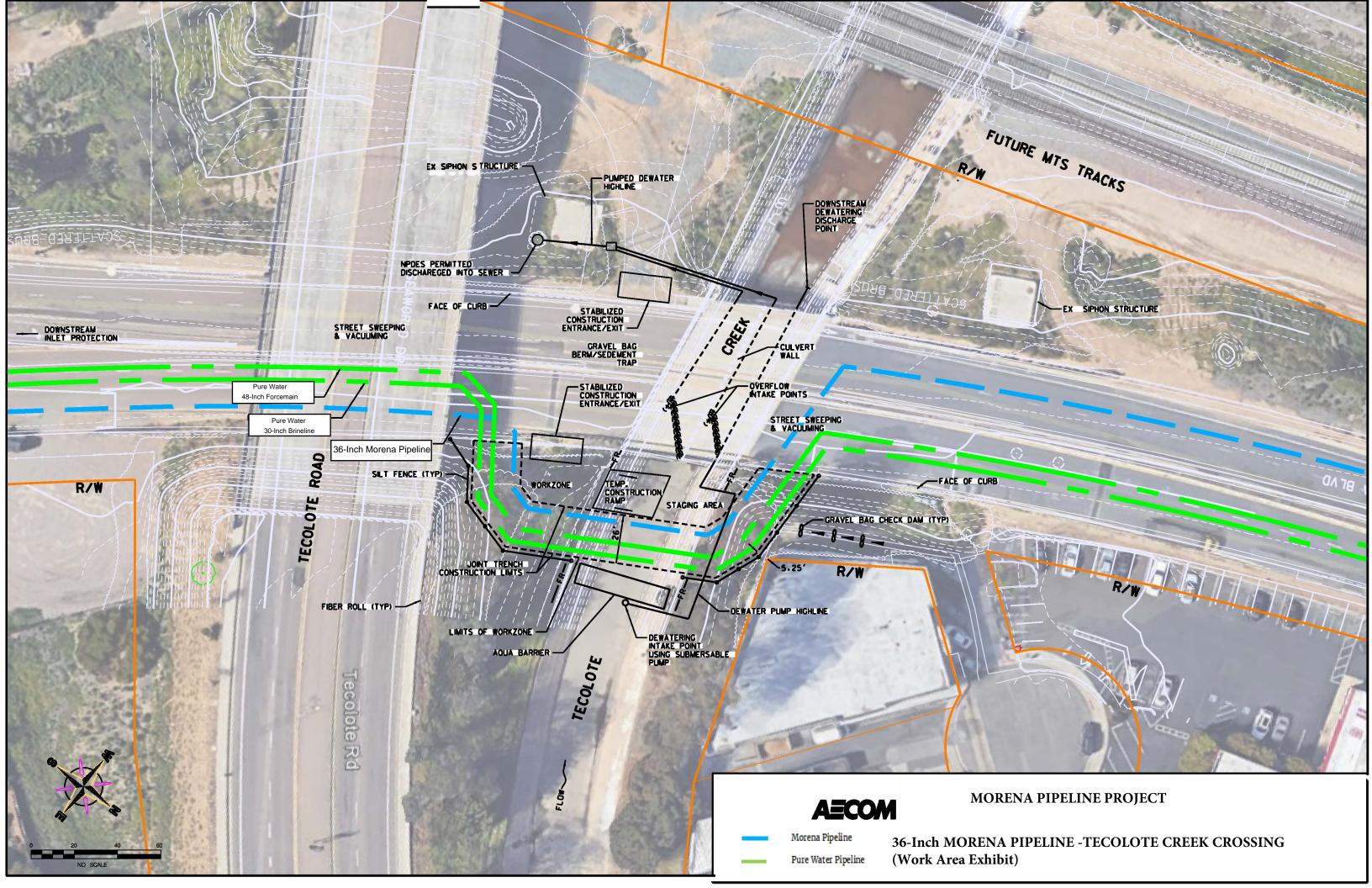
Uplands - means non-wetland areas that lack any field-based indicators of wetlands or other aquatic conditions. Uplands are generally well-drained and occur above (i.e., up-slope) from nearby aquatic areas. Wetlands can, however, be entirely surrounded by uplands. For example, some natural seeps and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

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

City of San Diego Morena Pipeline Project Certification No. R9-2019-0029

ATTACHMENT 2 PROJECT FIGURES AND PLANS

Morena Pipeline Project
 Morena Pipeline 90% Submittal



CONTRACTOR'S RESPONSIBILITIES

- I. PURSUANT TO SECTION 4216 OF THE GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.
- 2. NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES. (I.E., 69 KV & HIGHER)
- 3. LOCATE AND RECONNECT ALL SEWER LATERALS. LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY, LATERAL RECORDS ARE AVAILABLE TO THE CONTRACTOR AT THE WATER DEPARTMENT, 2797 CAMINITO CHOLLAS. LOCATE THE IMPROVEMENTS THAT WILL BE AFFECTED BY LATERAL REPLACEMENTS.
- 4. EXCAVATE AROUND WATER METER BOX (CITY PROPERTY SIDE) TO DETERMINE IN ADVANCE, THE SIZE OF EACH SERVICE BEFORE TAPPING MAIN.
- 5. CITY FORCES, WHEN SPECIFIED OR SHOWN ON THE PLANS, WILL MAKE PERMANENT CUTS & PLUGS AND CONNECTIONS.
- 6. KEEP EXISTING MAINS IN SERVICE IN LIEU OF HIGH-LINING. UNLESS OTHERWISE SPECIFIED SHOWN ON PLANS.
- 7. THE LOCATIONS OF EXISTING BUILDINGS AS SHOWN ON THE PLAN ARE APPROXIMATE.
- 8. STORM DRAIN INLETS SHALL REMAIN FUNCTIONAL AT ALL TIMES DURING CONSTRUCTION.
- 9. UNLESS OTHERWISE NOTED AS PREVIOUSLY POTHOLED (PH), ELEVATIONS SHOWN ON THE PROFILE FOR EXISTING UTILITIES ARE BASED ON A SEARCH OF THE AVAILABLE RECORD INFORMATION ONLY AND ARE SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THE CITY DOES NOT GUARANTEE THAT IT HAS REVIEWED ALL AVAILABLE DATA. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES EITHER SHOWN ON THE PLANS OR MARKED IN THE FIELD IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 5-UTILITIES.
- IO. EXISTING UTILITY CROSSING AS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT REPRESENTATIVE OF ACTUAL LENGTH AND LOCATION OF CONFLICT AREAS. SEE PLAN VIEW.
- II. ALL ADVANCE METERING INFRASTRUCTURE (AMI) DEVICES ATTACHED TO THE WATER METER OR LOCATED IN OR NEAR WATER METER BOXES, COFFINS, OR VAULTS SHALL BE PROTECTED AT ALL TIMES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 12. FOR COORDINATION OF THE SHUTDOWN OF TRANSMISSION MAINS (16 INCES AND LARGER), CONTACTIONUMENTS. WHEN SETTING SURVEY MONUMENTS USED FOR THE CITY'S SENIOR WATER DISTRIBUTION OPERATIONS SUPERVISOR AT (619) 527-7438. FOR COORDINATION OF THE SHUTDOWN OF DISTRIBUTION MAINS (LESS THAN 16 INCHES), CONTACT THEAS REQUIRED BY SECTIONS 6730.2 AND 8771 OF THE BUSINESS AND CITY'S WATER OPERATIONS DISTRICT MANAGER AT (619) 527-3945.

CONSTRUCTION STORM WATER PROTECTION NOTES

I. TOTAL SITE DISTURBANCE AREA (ACRES)_

HYDROLOGIC UNIT/ WATERSHED _ HYDROLOGIC SUBAREA NAME & NO.

2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE

THE PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT NO. R9-2013-0001 AS AMENDED BY R9-2015-0001 AND R9-2015-0100 AND CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWQ AS AMENDED BY ORDER 2010-0014-DWQ AND 2012-0006-DWQ

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→ SL

TRADITIONAL: RISK LEVEL | 2 3 LUP: RISK TYPE I 2 3 5

3. CONSTRUCTION SITE PRIORITY

☐ ASBS ☐ HIGH ☐ MEDIUM ☐ LOW

EXISTING STRUCTURES

EX WATER MAIN & VALVES

EX WATER METER EX FIRE HYDRANT

EX SEWER MAIN & MANHOLES

EX DRAINS

EX PAVEMENT (PROFILE)

EX GROUND LINE (PROFILE)

EX TRAFFIC SIGNAL EX STREET LIGHT

GAS MAIN

CHANGE DATE

ELEC. COND., TEL. COND., CATV

RAILROAD, TROLLEY TRACKS

MORENA PIPELINE AND DISTRIBUTION WATER LINES PACKAGE C &

WORK TO BE DONE

THE PROJECT CONSISTS OF THE CONSTRUCTION FOR APPROX 17.440 LF OF NEW 36-INCH TRANSMISSION WATER BEGINNING FROM THE CONNECTION TO THE ALVARADO LINE AT FRIARS AND NAPA ST TO BALBOA AVE AND APPROX 16,640 LF OF REPLACEMENT OF 16-INCH DISTRIBUTION WATER PIPELINE FROM MORENA BLVD AT SOUTH OF LINDA VISTA RD TO BALBOA AVE.

LEGAL DESCRIPTION

N/A

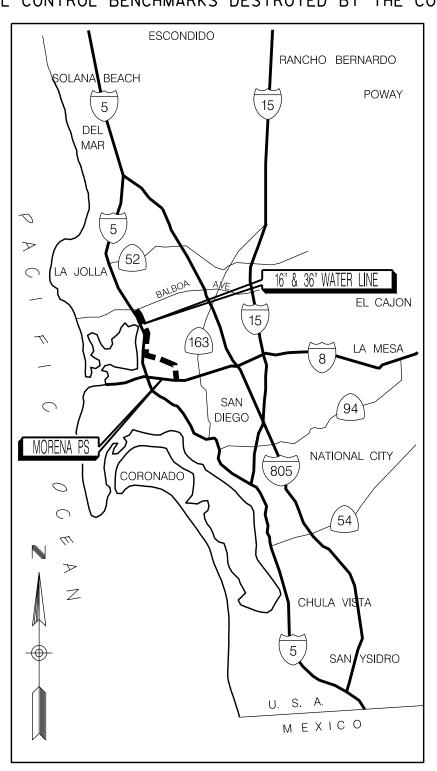
ASSESSOR'S NUMBER

N/A

MONUMENTATION/SURVEY NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LICENSED LAND SURVEYOR OR LICENSED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA SHALL FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR ANY EARTHWORK, DEMOLITION OR SURFACE IMPROVEMENTS. IF DESTROYED. A LICENSED LAND SURVEYOR SHALL REPLACE SUCH MONUMENT(S) WITH APPROPRIATE

RE-ESTABLISHMENT OF THE DISTURBED CONTROLLING SURVEY MONUMENTS PROFESSIONS CODE OF THE STATE OF CALIFORNIA. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILLED WITH THE COUNTY SURVEYOR. 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 AND VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.



PROJECT TEAM

AECOM ENGINEERING - (619) 610.7700 AIR-X UTILITY SURVEYORS - (760) 480.2347 CASCADE DRILLING - (619) 596.0644 GMK CONSULTING INC. - (760) 975.3680 KATZ & ASSOCIATES - (858) 452.0031 KEH & ASSOCIATES - (858) 413.5430 MICHAEL BAKER INTERNATIONAL - (858) 614.5000 PACIFIC DRILLING CO. - (619) 294.3682 RFYEAGER ENGINEERING - (619) 647.6265

FIELD DATA

BENCHMARK: NBP GAINES STREET AND NAPA STREET

ELEV = 21.742 THE BASIS OF ELEVATIONS FOR THIS SURVEY IS THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 PER CITY OF SAN DIEGO VERTICAL CONTROL BASIS OF BEARINGS / COORDINATES:

THE COORDINATES AND BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983 CCS 83 ZONE 6 (EPOCH 1991.35) BASED LOCALLY UPON FIELD OBSERVED TIES TO THE FOLLOWING

CONTROL POINTS: POINT# NORTHING (GRID) EASTING (GRID) 1899568.65 62700II**.**50

1855580.54 1854289.08 1040 REFERENCES: ROS 14492

TOPOGRAPHY SOURCE: MBI DATE OF SURVEY: JANUARY 25, 2017 - FEBRUARY 10, 2017 SURVEY NOTE: THIS SURVEY TIES IN HORIZONTALLY AND VERTICALLY TO CAD AERIAL MAPPING PROJECT "LAKE MIRAMAR ALIGNMENT". SAID MAPPING DATA WAS PROVIDED TO MBIFOR INTERNAL USE. AERIAL MAPPING WAS PERFORMED BY GPSi ON OCTOBER 24, 2015 (GPSi PROJECT NO. 15-843)

6271247.23

6276169.63

CONSULTANT

San Diego, CA 92101

T 619.610.7600 F 619.610.7601

STREETS REQUIRERING 12" TRENCH CAP: FRIARS RD, NAPA ST, MORENA BLVD, W MORENA BLVD

OWNER

SAN DIEGO PUBLIC UTILITIES DEPARTMENT 9192 TOPAZ WAY SAN DIEGO CA. 92123 PHONE NUMBER (858)-292-6300

ZONING

CONSTRUCTION TYPE: BUILDING TYPE: DISCRETION APPROVALS: BUILDING CODE YEAR: EXISTING USE OF BUILDING: PROPOSED USE OF BUILDING:

LEGEND

IMPROVEMENTS REFERENCE SYMBOL SLURRY FILL ABANDONED SEWER MAIN SEE PLANS & SPECS E-----CUTTING AND PLUGGING ABANDONED WATER MAIN F-----SURVEY MONUMENT M-IO, M-IOA, M-IOB WATER MAIN & APPURTENANCES SDM-105, SDW-110, SDW-151, SDW-161 SDW-I09, SDW-I52, SDW-I53, WV-05 VALVES WITH CAPS AND WELLS FIRE SERVICE CONNECTION F-----(F SDM-105, SDW-109, SDW-118, & ASSEMBLY SDW-152, SDW-153 - PROPOSED WATER 6" FIRE HYDRANT ASSEMBLY SDM-105, SDW-104, SDW-109, & MARKER 2-PORT UNLESS SDW-152, SDW-153 SPECIFIED AS 3-PORT - PROPOSED WATER SDM-105, SDW-107, SDW-134, I" WATER SERVICE SDW-135, SDW-136, SDW-137, SDW-138, **--**□--**-----(** W UNLESS OTHERWISE SPECIFIED SDW-149, SDW-150, WS-03 - PROPOSED WATER WATER SERVICE TRANSFER SDW-149, SDW-150 BLOW-OFF ASSEMBLY SDM-IO5, SDW-IO6, SDW-I43, SDW-I44, SDW-145, SDW-146, WB-05, - PROPOSED WATER SDM-IO5, SDW-II7, SDW-I58, SDW-I59, SDW-I60 AIR & VACUUM VALVE ACCESS MANHOLE WM-03 GEOTECHNICAL SOIL BORING LOCATION IF APPLICABLE HIGHLINING BY CONTRACTOR SDW-170, SDW-171, SDW-172, SDW-173

DECLARATION OF RESPONSIBLE CHARGE

*IHEREBY DECLARE THAT IAM THE ENGINEER OF WORK FOR THIS PROJECT THAT IHAVE 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.

__/_/17 DATE JOSEPH LONG

FOR ADDITIONAL SYMBOLS SEE RESURFACING, CURB RAMP AND TRAFFIC CONTROL SHEETS.

MORENA PIPELINES - PACKAGE C

COVER SHEET

CONSTRUCTION CHANGE / ADDENDUM WARNING The City of AFFECTED OR ADDED SHEET NUMBERS APPROVAL NO. SAN DIEGO Public Utilities IF THIS BAR DOE NOT MEASURE THEN DRAWING IS

NOT TO SCALE.

SPEC. NO. C 54329

WATER S-16027 CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET OI OF 137 SHEETS LAILA NASRAWI NABIL BATTA
FOR CITY ENGINEER PROJECT MANAGER PRINT DCE NAME DARIN SANCHEZ DATE FILMED DESCRIPTION APPROVED ORIGINAL XX/XX 000-0000 CCS27 COORDINATE 0000-0000 CCS83 COORDINATE DATE STARTED 40380-01-D

DATE COMPLETED

www.aecom.com CONTRACTOR INSPECTOR

VICINITY MAP

- I. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH) LATEST EDITION, THE LATEST CALIFORNIA M.U.T.C.D., THE CITY OF SAN DIEGO.
- 2. IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES.
- IN ACCORDANCE WITH THE CALTRANS STANDARD PLANS AND SPECIFICATIONS WHERE APPLICABLE.

STANDARD SPECIFICATIONS:

- I. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) INCLUDING THE REGIONAL AND CITY OF SAN DIEGO SUPPLEMENTAL AMENDMENTS.
- 2. IN ACCORDANCE WITH THE CITY OF SAN DIEGO STANDARD PLANS AND SPECIFICATIONS (WHITEBOOK) INCLUDING ALL REGIONAL DRAWINGS
- 3. IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- 2. ALL APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS
- 3. IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

WORKZONE REQUIREMENTS:

- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING FROM CONSTRUCTION OPERATIONS UNLESS SPECIFIED OTHERWISE. CONTRACTOR SHALL DEMONSTRATE EXTREME CAUTION WHEN TRENCHING IN CLOSE PRODIMITY OF OTHER UTILITIES. ANY SIGN OF DEGRADATION OF THE TRENCH WALL INTEGRITY WILL FORCE THE STOPPAGE OF WORK UNTIL THE TRENCH INTEGRITY IS ADEQUATELY RESTORED. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES, PAVEMENT, CURBS, TRAFFIC STRIPING AND MARKINGS, TRAFFIC SIGNAL DETECTOR LOOPS, STRUCTURES, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, AS A RESULT OF ITS OPERATIONS, AND WILL BE REQUIRED TO REPAIR OR REPLACE SAME TO THE SATISFACTION OF, AND AS DIRECTED BY, THE ENGINEER OR UTILITY COMPANY.
- 2. THE WORK SITE AND EXTERIOR STREETS SHALL BE MAINTAINED IN A NEAT, CLEAN, HAZARD FREE, ORDERLY STATE THROUGHOUT CONSTRUCTION. SITE SHALL BE CLEANED UPON REQUEST OF THE ENGINEER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL IMMEDIATELY HAUL AWAY AND DISPOSE OF, OFF THE PROJECT SITE, ALL EXCESS EXCAVATED MATERIAL AND CONSTRUCTION DEBRIS. ALL DISPOSALS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 3. .ALL EXISTING IMPROVEMENTS INCLUDING CURB AND GUTTERS, SIDEWALKS, ASPHALT CONCRETE OR P.C.C. PAVING WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THE PROJECT, SHALL BE JOINED, OR MATCHED IN A MANNER SATISFACTORY TO THE CITY, INCLUDING NECESSARY SAWCUTTING, REMOVAL, REPLACEMENT OR CAPPING.
- 4. THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS IN SUCH A MANNER THAT STORM OR OTHER WATERS MAY PROCEED UNINTERRUPTED ALONG THE STREET OR DRAINAGE COURSES.
- 5. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN UNANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE.
- 6. MATERIALS WHICH MAY HAVE EFFECTS OF POLLUTION INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS: WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS: ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR, OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER; CONCRETE DETERGENT OR FLOATABLE WASTES; WASTE FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING, AND SUPER CHLORINATED POTABLE WATER LINE FLUSHING.
- 7. DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON SITE PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUN-OFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.

GROUNDWATER DISCHARGE NOTES

- ALL GROUNDWATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE CONTRACTOR 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 TERMS, PROVISIONS, AND CONDITIONS OF STATE ORDER NO. R9-2008-0002 NPDES CAG919002.
- 2. THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL 'ENROLLMENT LETTER' OBTAINED FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATIONAND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMODATE THE INCREASED RATES.
- 3. 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 CONTRACTOR HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL 'ENROLLMENT LETTER' FROMT HE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO. R9-2007-0034. NPDES NO. CAG919001.

ENVIRONMENTAL MITIGATION NOTES:

RIPARIAN BIRD REQUIREMENTS:

- I. NO CLEARING, GRUBBING, GRADING, OR OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR DURING THE LEAST BELL'S VIREO BREEDING SEASON (MARCH 15 TO SEPTEMBER 15) AND SOUTHWESTERN WILLOW FLYCATCHER BREEDING SEASON (MAY ITO SEPTEMBER I), UNTIL THE FOLLOWING REQUIREMENTS HAVE BEEN MET TO THE SATISFACTION OF THE ADD/MMC:
- A. A QUALIFIED BIOLOGIST (POSSESSING A VALID ENDANGERED SPECIES ACT SECTION IO(A)(I)(A) RECOVERY PERMIT) SHALL SURVEY THOSE HABITAT AREAS WITHIN THE MHPA THAT WOULD BE SUBJECT TO CONSTRUCTION NOISE LEVELS EXCEEDING 60 DECIBELS [DB(A)] HOURLY AVERAGE FOR THE PRESENCE OF THE LEAST BELL'S VIREO AND SOUTHWESTERN WILLOW FLYCATCHER. SURVEYS FOR LEAST BELL'S VIREO AND SOUTHWESTERN WILLOW FLYCATCHER SHALL BE CONDUCTED PURSUANT TO THE PROTOCOL SURVEY GUIDELINES ESTABLISHED BY THE USFWS WITHIN THE BREEDING SEASON PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. IF LEAST BELL'S VIREO, AND/OR SOUTHWESTERN WILLOW FLYCATCHER ARE PRESENT, THEN THE FOLLOWING CONDITIONS MUST BE MET:
 - I. BETWEEN MARCH IS TO SEPTEMBER IS FOR LEAST BELL'S VIREO AND MAY ITO SEPTEMBER IFOR SOUTHWESTERN WILLOW FLYCATCHER, NO CLEARING, GRUBBING, OR GRADING OF OCCUPIED HABITAT SHALL BE PERMITTED. AREAS RESTRICTED FROM SUCH ACTIVITIES SHALL BE STAKED OR FENCED UNDER THE SUPERVISION OF A QUALIFIED BIOLOGIST; AND
 - 2. BETWEEN MARCH IS TO SEPTEMBER IS FOR LEAST BELL'S VIREO AND/OR MAY ITO SEPTEMBER IFOR SOUTHWESTERN WILLOW FLYCATCHER NO CONSTRUCTION ACTIVITIES SHALL OCCUR WITHIN ANY PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES WOULD RESULT IN NOISE LEVELS EXCEEDING 60 DB(A) HOURLY AVERAGE AT THE EDGE OF OCCUPIED HABITAT. AN ANALYSIS SHOWING THAT NOISE GENERATED BY CONSTRUCTION ACTIVITIES WOULD NOT EXCEED 60 DB(A) HOURLY AVERAGE AT THE EDGE OF OCCUPIED HABITAT MUST BE COMPLETED BY A QUALIFIED ACOUSTICIAN (POSSESSING CURRENT NOISE ENGINEER LICENSE OR REGISTRATION WITH MONITORING NOISE LEVEL EXPERIENCE WITH LISTED ANIMAL SPECIES) AND APPROVED BY THE ADD/MMC AT LEAST 2 WEEKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES DURING THE BREEDING SEASON, AREAS RESTRICTED FROM SUCH ACTIVITIES SHALL BE STAKED OR FENCED UNDER THE SUPERVISION OF A QUALIFIED BIOLOGIST; OR
 - 3. AT LEAST 2 WEEKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, UNDER THE DIRECTION OF A QUALIFIED ACOUSTICIAN, ATTENUATION MEASURES (E.G., BERMS, WALLS) SHALL BE IMPLEMENTED TO ENSURE THAT NOISE LEVELS RESULTING FROM CONSTRUCTION ACTIVITIES WOULD NOT EXCEED 60 DB(A) HOURLY AVERAGE AT THE EDGE OF HABITAT OCCUPIED BY THE LEAST BELL'S VIREO, AND/OR SOUTHWESTERN WILLOW FLYCATCHER. CONCURRENT WITH THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND THE CONSTRUCTION OF NECESSARY NOISE ATTENUATION FACILITIES, NOISE MONITORING SHALL BE CONDUCTED AT THE EDGE OF THE OCCUPIED HABITAT AREA TO ENSURE THAT LEVELS DO NOT EXCEED 60 DB(A) HOURLY AVERAGE. IF THE NOISE ATTENUATION TECHNIQUES IMPLEMENTED ARE DETERMINED TO BE INADEQUATE BY THE QUALIFIED ACOUSTICIAN OR BIOLOGIST, THEN THE ASSOCIATED CONSTRUCTION ACTIVITIES SHALL CEASE UNTIL SUCH TIME THAT ADEQUATE NOISE ATTENUATION IS ACHIEVED OR UNTIL THE END OF THE BREEDING SEASON (AUGUST 16). CONSTRUCTION NOISE MONITORING SHALL CONTINUE TO BE MONITORED AT LEAST TWICE WEEKLY ON VARYING DAYS, OR MORE FREQUENTLY DEPENDING ON THE CONSTRUCTION ACTIVITY, TO VERIFY THAT NOISE LEVELS AT THE EDGE OF OCCUPIED HABITAT ARE MAINTAINED BELOW 60 DB(A) HOURLY AVERAGE OR TO THE AMBIENT NOISE LEVEL IF IT ALREADY EXCEEDS 60 DB(A) HOURLY AVERAGE. IF NOT, OTHER MEASURES SHALL BE IMPLEMENTED IN CONSULTATION WITH THE BIOLOGIST AND THE ADD/MMC, AS NECESSARY, TO REDUCE NOISE LEVELS TO BELOW 60 DB(A) HOURLY AVERAGE OR TO THE AMBIENT NOISE LEVEL IF IT ALREADY EXCEEDS 60 DB(A) HOURLY AVERAGE. SUCH MEASURES MAY INCLUDE, BUT ARE NOT LIMITED TO, LIMITATIONS ON THE PLACEMENT OF CONSTRUCTION EQUIPMENT AND THE SIMULTANEOUS USE OF EQUIPMENT.
- B. IF LEAST BELL'S VIREO AND/OR SOUTHWESTERN WILLOW FLYCATCHER ARE NOT DETECTED DURING THE PROTOCOL SURVEY, THE QUALIFIED BIOLOGIST SHALL SUBMIT SUBSTANTIAL EVIDENCE TO THE ADD/MMC AND APPLICABLE RESOURCE AGENCIES WHICH DEMONSTRATES WHETHER OR NOT MITIGATION MEASURES SUCH AS NOISE WALLS ARE NECESSARY BETWEEN MARCH IS TO SEPTEMBER 15 FOR LEAST BELL'S VIREO AND/OR MAY ITO SEPTEMBER IFOR SOUTHWESTERN WILLOW FLYCATCHER ADHERENCE TO THE FOLLOWING IS REQUIRED:
 - I. IF THIS EVIDENCE INDICATES THAT THE POTENTIAL IS HIGH FOR LEAST BELL'S VIREO AND/OR SOUTHWESTERN WILLOW FLYCATCHER TO BE PRESENT BASED ON HISTORICAL RECORDS OR SITE CONDITIONS, THEN CONDITION I(A) SHALL BE ADHERED TO AS SPECIFIED
 - 2. IF THIS EVIDENCE CONCLUDES THAT NO IMPACTS TO THIS SPECIES ARE ANTICIPATED, NO MITIGATION MEASURES WOULD BE NECESSARY.

ABBREVIATIONS

GΑ

GIS

G۷

GCBP

H/P

HPI

HORIZ

INSUL

IRR

K۷

LT

MAX

L/P

GALV

GAUGE

GALVANIZED GRADE BREAK

GATE VALVE

HIGH POINT

INSULATING

JOINT

KILOVOLT

LENGTH

MAXIMUM

LEFT

LOW POINT

LINEAR FEET

IRRIGATION LINE

HORIZONTAL

INSIDE DIAMETER

INVERT ELEVATION

GEOGRAPHICAL INFORMATION SYSTEM

HORIZONTAL POINT OF INTERSECTION

GATE VALVE WITH BYPASS

<pre>OR IN</pre>	ANGLE INCH	MECH MEAS	MECHANICAL FIELD MEASURED
OR FT	FOOT	MFR	MANUFACTURER
AB	ANCHOR BOLT	MH	MANHOLE
ABAN, ABND	ABANDONED UTILITY	MIN	MINIMUM
OR ABAND AC	ASPHALT CONCRETE, ASBESTOS CEMENT	MISC MJ	MISCELLANEOUS MECHANICAL JOINT
AG	ABOVE GROUND	MOD	MODIFY, MODIFIED
AHD	AHEAD	MTS	SAN DIEGO METROPOLITAN TRANSIT SYSTEM
ALT	ALTERNATIVE	N	NORTH
APPOX	APPROXIMATE	NA	NOT APPLICABLE
APVD ASSY	APPROVED	NC NCTD	NORMALLY CLOSED
ASTM	ASSEMBLY AMERICAN SOCIETY FOR TESTING AND MATERIALS	NCTD NIC	NORTH COUNTY TRANSIT DISTRICT NOT IN CONTRACT
AV	AIR VALVE	NO NO	NUMBER
AVAR	AIR VACUUM AND AIR RELEASE	NTS	NOT TO SCALE
AVE	AVENUE	NTU	NEPHELOMETRIC TURBIDITY UNITS
AWWA BC	AMERICAN WATER WORKS ASSOCIATION	00	ON CENTER
BCR	BEGINNING OF CURVE BEGINNING OF CURVE RETURN	OD OH	OUTSIDE DIAMETER OVERHEAD
BDRY	BOUNDARY	PE/BS	PLAIN END, BUTT STRAP
BFP	BACK FLOW PREVENTER	PC	PORTLAND CEMENT
BFV	BUTTERFLY VALVE	PG&E	PACIFIC GAS AND ELECTRIC
BK	BACK	PH	POT HOLE
BLDG BLK	BUILDING BLOCK	PI PL	POINT OF INTERSECTION PROPERTY LINE
BM	BENCHMARK	PL PP	POWER POLE
ВО	BLOW-OFF ASSEMBLY	PPB	PEDESTRIAN PUSH BUTTON
BP	BYPASS	PROP	PROPOSED
BVC	BEGINNING OF VERTICAL CURVE	PRV	PRESSURE REDUCING VALVE
C&G	CURB AND GUTTER	PSI	POUNDS PER SOUARE INCH
CAB CALC	CRUSHED AGGREGATE BASE CALCULATED	PVC PVMT	POLYVINYL CHLORIDE PAVEMENT
CATV	CABLE TELEVISION	R	RADIUS LENGTH
СВ	CATCH BASIN	R/W,ROW	RIGHT OF WAY
CCP	CONCRETE CYLINDER PIPE	RC	REINFORCED CONCRETE
CF	CURB FACE	RCP	REINFORCED CONCRETE PIPE
CHNG CIP	CHANGE CAST IDON DIDE	RD BEC	ROAD
CJ	CAST IRON PIPE CONSTRUCTION JOINT	REC RED	RECORD DRAWING REDUCER
CKV	CHECK VALVE	REF	REFERENCE
CL	CENTERLINE, CLASS, CHAIN LINK	REINF	REINFORECEMENT
CLR	CLEAR	REOD	REQUIRED
CML	CEMENT MORTAR LINED	REV	REVISION
CMU CML&TC	CONCRETE MASONRY UNIT CEMENT MORTAR LINED & TAPE COATED	RR RT	RAILROAD RIGHT
CMP	CORRUGATED METAL PIPE	S/W	SIDEWALK
COMM	COMMUNICATION	S	SEWER/SLOPE/SOUTH SIGN
CONC	CONCRETE	SCHD	SCHEDULE
CONN	CONNECTION	SD	STORM DRAIN (LINE)
CONST CONT	CONSTRUCTION CONTINUOUS	SDRSD SDSD	SAN DIEGO REGIONAL STANDARD DRAWINGS CITY OF SAN DIEGO STANDARD DRAWINGS
CONTR	CONTRACTOR	SEC	SECONDARY, SECONDS
CP	CATHODIC PROTECTION	SHT	SHEET
CTR	CENTER	SPECS	SPECIFICATIONS
CTV DET	CABLE TELEVISION	STA	STATION
DIA	DETAIL DIAMETER	STD STL	STANDARD STEEL
DIP	DUCTILE IRON PIPE	STRUCT	STRUCTURAL, STRUCTURE
DISTR	DISTRIBUTION	SWR	SEWER
DWG	DRAWING	TBD	TE BE DETERMINED
DWT	DETECTABLE WARNING TILE	TC	TOP OF CURB
DWY E	DRIVEWAY ELECTRICAL LINE OR EAST	TEL TEMP	TELEPHONE TEMPORARY
ĒA	EACH	THK	THICK, THICKNESS
EC	END OF CURVE	TP	TELEPHONE POLE
ECR	END OF CURB RETURN	TS	TEST STATION
EG	EXISTING GRADE	TV	TELEVISION
EJ EL	EXPANSION JOINT	TYP	TYPICAL
ELEC	ELEVATION ELECTRICAL	UG UNK	UNDERGROUND UNKNOWN
ENCL	ENCLOSURE, ENCLOSED	VAC	VACUUM
EP	EDGE OF PAVEMENT	VAR	VARIABLE
EQ	EQUAL	VB	VALVE BOX
ESMT EVC	EASEMENT CHEVE	VCP	VITRIFIED CLAY PIPE
EW	END OF VERTICAL CURVE EACH WAY	VERT W/	VERTICAL With
EX, EXIST	EXISTING	W/O	WITHOUT
F	FLANGE	W	WEST
FBC	FURNISHED BY CITY	WB	WELDED BELL
FF FG	FINISHED FLOOR	WM wsp	WATER METER
FH	FINISHED GRADE FIRE HYDRANT	WSP WTR	WELDED STEEL PIPE WATER
FIG	FIGURE	XING	CROSSING
FL	FLOW LINE	XSEC	CROSS SECTION
FLG	FLANGED		
FM FO	FORCE MAIN		
FS	FIBER OPTIC (CABLE) FINISHED SURFACE		
FT	FEET		
FUT	FUTURE		
FWY	FREEWAY		MORENA PIPELINES
G	GAS (LINE)		

S – PACKAGE C

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 $\sum_{i=1}^{n} \sum_{j=1}^{n} a_{ij}$

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G-2

GENERAL NOTES & ABBREVIATIONS

WATER S-16027 CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 02 OF 137 SHEETS NABIL BATTA FOR CITY ENGINEER LAILA NASRAWI DATE

C 54329 <u> 12/31/17</u> CONTRACTOR

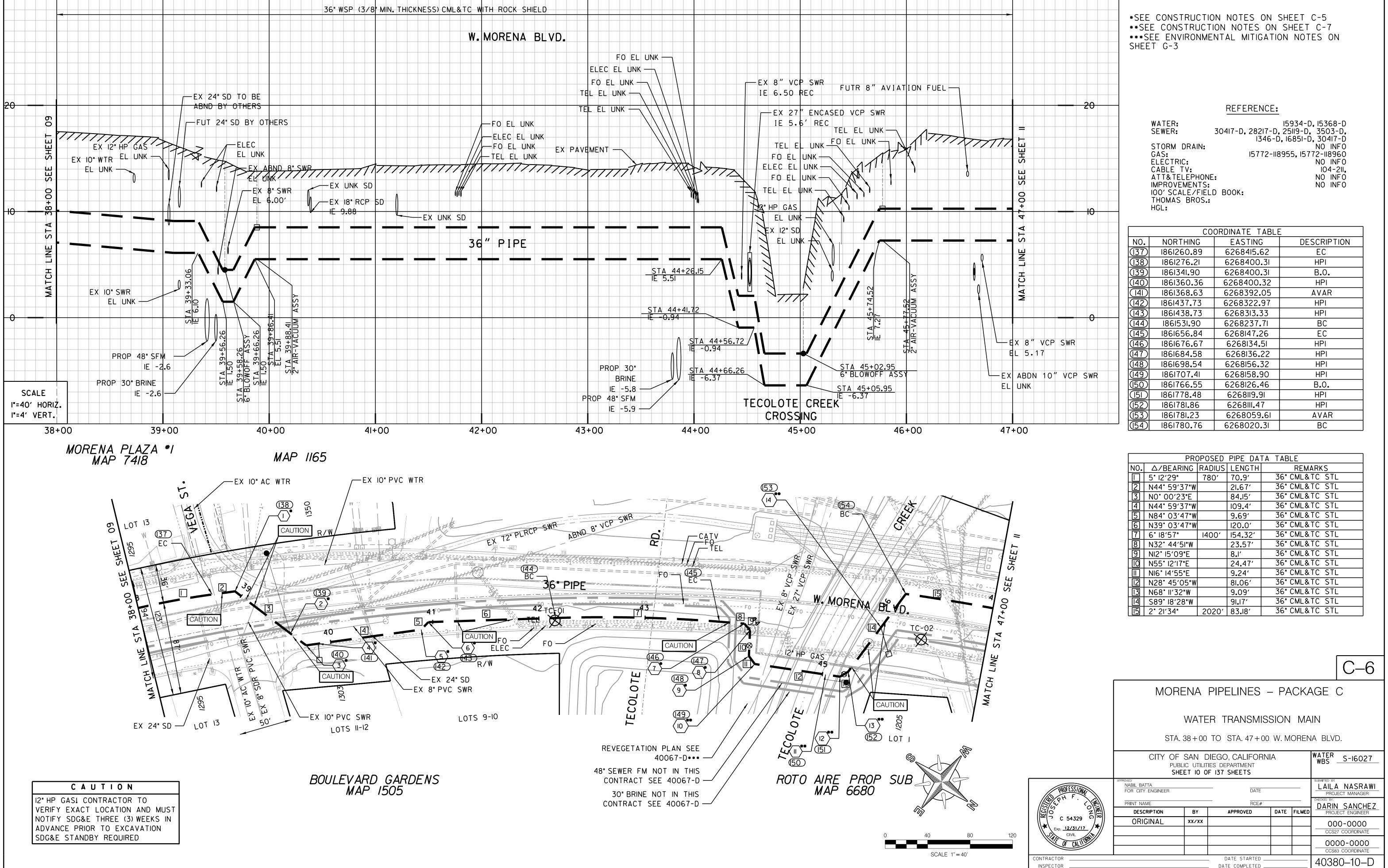
INSPECTOR

PROJECT MANAGER PRINT NAME RCE# DARIN SANCHEZ DATE FILMED DESCRIPTION APPROVED BY ORIGINAL XX/XX 000-0000 CCS27 COORDINATE 0000-0000 CCS83 COORDINATE DATE STARTED 40380–02–D

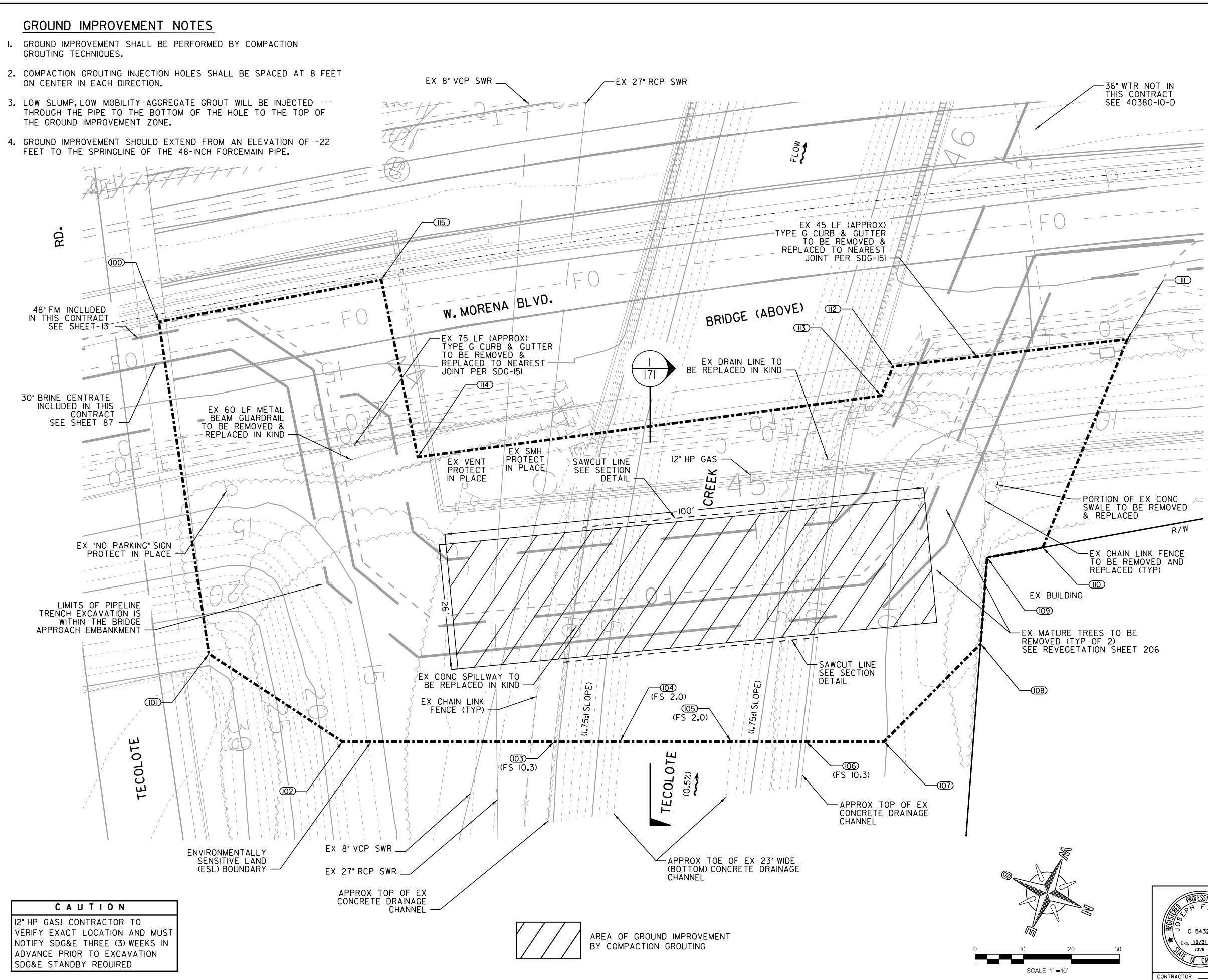
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DATE COMPLETED





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NOTES

- I. ITEMS NOT SHOWN TO BE REMOVED SHALL BE PROTECTED IN PLACE.
- 2. ALL EXISTING PLANT MATERIAL, TREES, AND SHRUBS IN THE AREA OF WORK SHALL BE REMOVED, INCLUDING BUT NOT LIMITED TO: ABOVE GROUND PORTIONS AND ROOT SYSTEMS SHALL BE CONSIDERED AS PART OF THIS EXCAVATION AND RECONSTRUCTION PLAN. ALL HOLES AND VOIDS CAUSED BY PLANT REMOVAL SHALL BE BACKFILLED AS REQUIRED BY THE ENGINEER.
- 3. ALL TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE IN ACCORDANCE WITH ALL LOCAL AND REGIONAL CODES, ORDINANCES, AND REGULATIONS AS REQUIRED BY THE ENGINEER.
- 4. NOTIFY ALL APPLICABLE UTILITY PROVIDERS PRIOR TO THE COMMENCEMENT OF WORK.
- 5. THE PLAN MAY NOT SHOW ALL EXISTING UTILITIES AND/OR EXISTING SUBSTRUCTURES. CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDERS TO DETERMINE LOCATION OF EXISTING UTILITIES.
- THE CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS (VIDEO/PHOTO) OF THE SITE AND SURROUNDING PROPERTIES PRIOR TO COMMENCEMENT OF WORK.
- ALL DEMOLITION. EXCAVATION AND RECONSTRUCTION ACTIVITIES SHALL BE DONE IN ACCORDANCE WITH APPLICABLE REGULATIONS, ORDINANCES AND CODES. THE CONTRACTOR SHALL PROVIDE HEALTH & SAFETY PROTECTION MEASURES AS REQUIRED BY APPLICABLE REGULATIONS, ORDINANCES, AND CODES. PROTECTION SHALL INCLUDE NEIGHBORING PROPERTIES, OCCUPANTS, VISITORS, AND PASSERSBY FROM DAMAGE AND/OR DISCOMFORT.
- 8. UPON COMPLETION OF DEMOLITION WORK, THE SITE SHALL BE CLEANED WITH NO TRACE OF DEBRIS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 9. MATERIALS RESULTING FROM DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR, DEBRIS FOR THE SITE SHALL NOT BE ALLOWED TO ACCUMULATE.
- IO. FURNISH AND INSTALL SOIL EROSION PREVENTION MEASURES AS SPECIFIED. SEE SECTION SHEET 171.
- II. CONSTRUCTION ACTIVITIES FOR MAIN CHANNEL WALLS AND BOTTOM SLAB EXCAVATION AND RECONSTRUCTION IS LIMITED TO THE DAYS BETWEEN ___ AND ____
- 12. THE CONTRACTOR SHALL REPLACE EXISTING WEEP HOLES REMOVED DURING CONCRETE CHANNEL DEMOLITION PER COSD SDD-IO8

COORDINATE TABLE						
NO.	NORTHING	EASTING	DESCRIPTION			
9	1861632.82	6268137.05	ESL ANGLE POINT			
	1861669.55	6268196.34	ESL ANGLE POINT			
(A)	1861702.26	6268202.21	ESL ANGLE POINT			
(03)	1861742.73	6268184.87	ESL TOP OF SLOPE			
(104)	1861755.28	6268179.49	ESL TOE OF SLOPE			
(105)	1861776.55	6268170.38	ESL TOE OF SLOPE			
(106)	1861790.79	6268164.28	ESL TOP OF SLOPE			
(07)	1861805.71	6268 57.88	ESL ANGLE POINT			
(108)	1861816.16	6268 3 .24	ESL ANGLE POINT			
(O)	1861810.36	6268114.27	ESL ANGLE POINT			
	1861820.17	6268107.82	ESL ANGLE POINT			
	1861819.28	6268061.10	ESL ANGLE POINT			
(12)	1861776.74	6268085.47	ESL ANGLE POINT			
$\overline{13}$	1861776.86	6268092.02	ESL ANGLE POINT			
(14)	1861693.35	6268141.65	ESL ANGLE POINT			
(115)	1861671.87	6268110.80	ESL ANGLE POINT			

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NC MORENA PUMP STATION AND PIPELINES PACKAGE B

TECOLOTE CREEK CROSSING

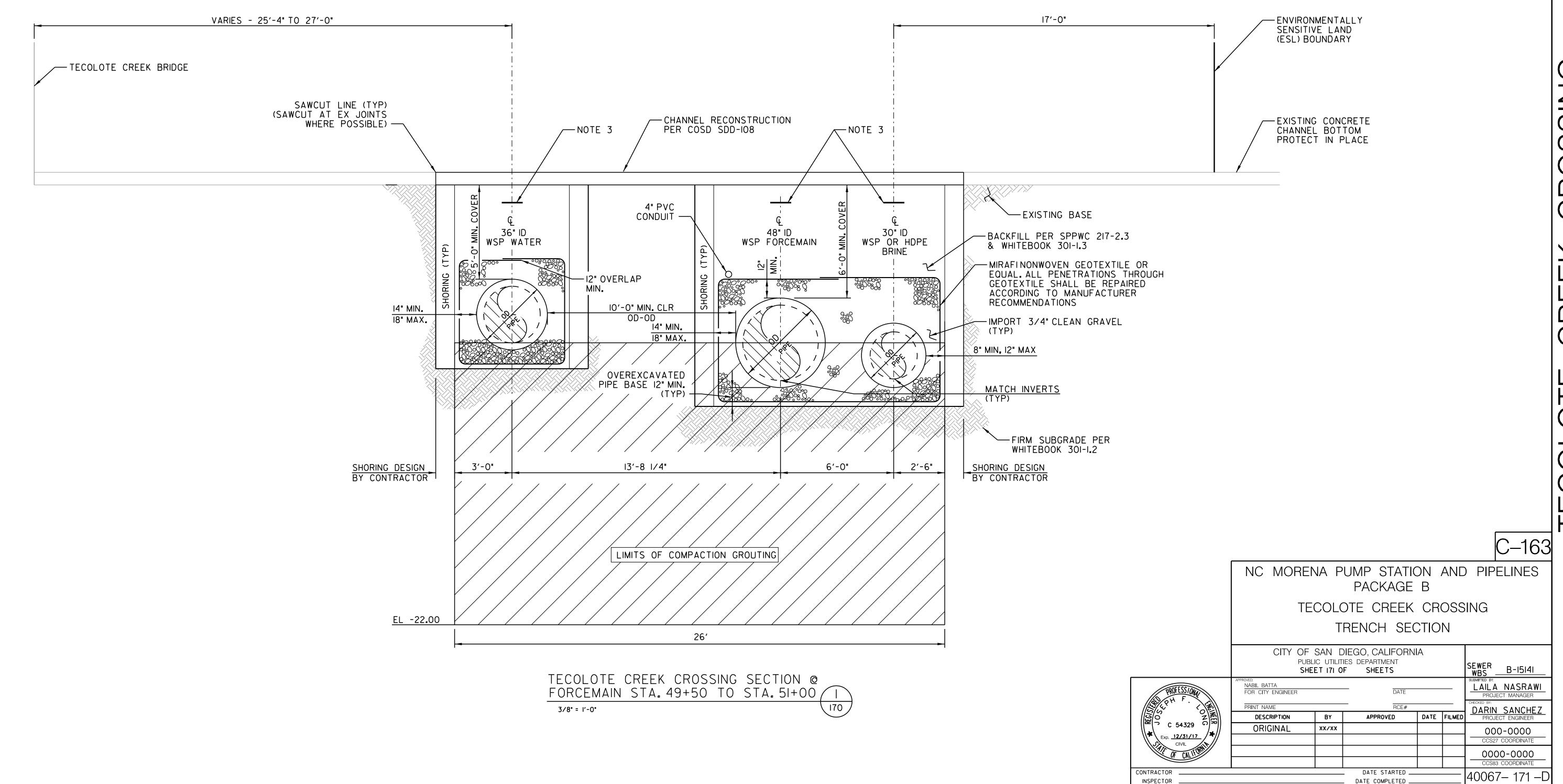
GROUND IMPROVEMENT AND EXCAVATION PLAN

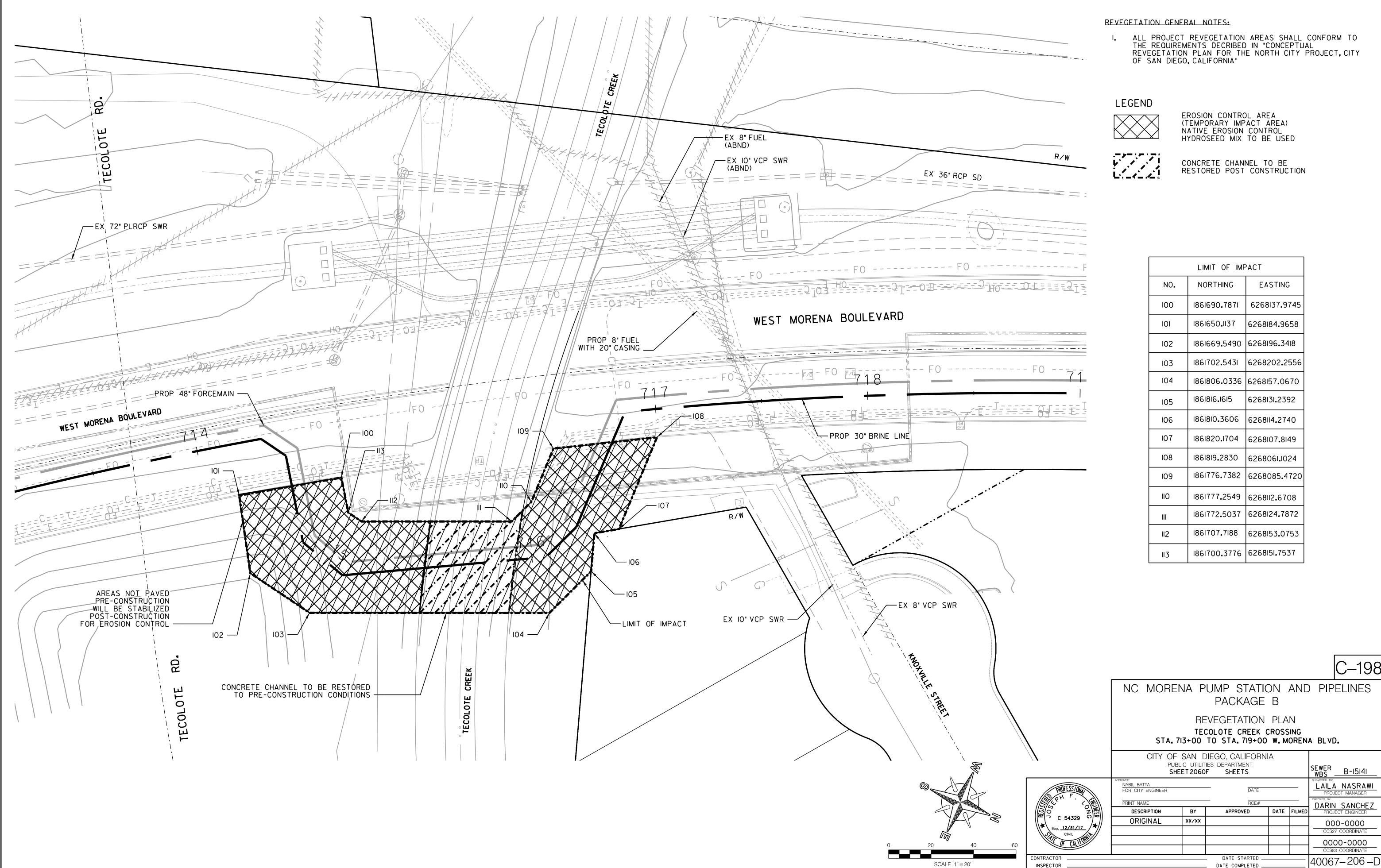
	CITY OF SAN DIEGO, CALIFORNIA PUBLIC UTILITIES DEPARTMENT SHEET 170 OF SHEETS				SEWER B-15141	
PROFESSIONAL F	APPROVED: NABIL BATTA FOR CITY ENGINEER		DATE			LAILA NASRAWI PROJECT MANAGER
	PRINT NAME	 RCE#			DARIN SANCHEZ	
NEER C 54329 C R	DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
	ORIGINAL	XX/XX				000-0000
Exp. <u>12/31/17</u>						CCS27 COORDINATE
OF CALLEGERIE						0000-0000
						CCS83 COORDINATE
CONTRACTOR			DATE STARTED DATE COMPLETED			40067- 170 -D

1/2/2018

TRENCH NOTES

- I. SAW-CUT AND DEMOLISH EXISTING CONCRETE CHANNEL PER WHITE BOOK SECTION 300-13-2
- 2. CONSTRUCT NEW CHANNEL PER CITY OF SAN DIEGO STANDARD DRAWING SDD-108
- 3. FURNISH AND INSTALL PLASTIC WARNING AND DETECTABLE METALLIC PIPE WARNING
- 4. EXISTING COMPACTED FILL BEYOND LIMITS OF TRENCH EXCAVATION SHALL REMAIN UNDISTURBED TO THE MAXIMUM EXTENT POSSIBLE
- 5. FOR BACK FILL AND COMPACTION REQUIREMENTS SEE SPECIFICATION SECTION 312316, SPPWC 217, AND WHITE BOOK 301
- 6. DO NOT OPERATE AXLE-DRIVEN OR TRACTOR-DRAWN CONSTRUCTION EQUIPMENT OVER PIPELINE UNTIL HEIGHT OF BACK FILL IS 2'-O" OR GREATER OVER PIPE.





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