



CAPITAL PROGRAM SERVICES
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*Notification of this Addendum is transmitted via email to all current plan holders.
This Addendum is posted on the District website at
www.valleywater.org/Programs/Construction.aspx.*

June 30, 2016

**ADDENDUM NO. 1
TO CONTRACT DOCUMENTS FOR THE
PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN
Project No. 26244001; Contract No. C0617**

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

BID DOCUMENTS

NOTICE TO BIDDERS

ADD to the end of item 3.A.12. in Summary of Work:

“ . . . with 6ft chain link fencing;”

DELETE item number 3.A.17. in Summary of Work in its entirety.

REPLACE Specification Section reference number in item 3.B. in Summary of Work with:

“33.05”

REPLACE first sentence in Item 6. Estimated Cost with:

“The estimated cost of the Project is between \$15 million and \$19 million.”

REPLACE Item 6.B. Supplemental Bid Items with:

“B. Supplemental Bid Items: These Bid Items may or may not be required. They may be deleted entirely or in part, by deductive change order(s), at the sole discretion of the District. The sum of the Total Base Bid and the Total Supplemental Bid will be used to determine the lowest Bid price.”

REPLACE first sentence in Item 8. Pre-Bid Conference and Site Showing with:

“A pre-bid conference/site visit will be conducted by the District on July 13, 2016.”

REPLACE second sentence in Item 9. Availability of Bid Documents with:

“Paper copies may be purchased for the nonrefundable price of \$120.”

DELETE the word ‘above’ at the end of item 13. Bid Opening.

REPLACE item 20. Permit in its entirety with:

“20. **Permit.** The District has obtained the 404 permit from the U.S. Army Corps of Engineers (USACE), the Conditional Water Quality Certification from the Regional Water Quality Control Board (RWQCB), and the draft Streambed Alteration Agreement (SAA) from the California Department of Fish and Wildlife (CDFW) for the Project. The final SAA is expected to be issued in July of 2016. When this permit is received, copies will be issued via addendum prior to bid opening. No construction contract will be awarded by the District until all required permits are received.”

DELETE item 21. Escrow Bid Documents in its entirety.

THIS ADDENDUM NO. 1, WHICH CONTAINS 2 PAGES, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

NOTE: These changes were incorporated into the Notice to Bidders prior to publication.



Date: 6/30/2016

Stephen M. Ferranti, P.E.
Engineering Unit Manager
For:
Melanie Richardson, P.E.
Deputy Operating Officer
Watershed Design and Construction Division



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July 18, 2016

**ADDENDUM NO. 2
TO CONTRACT DOCUMENTS FOR THE
PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN
Project No. 26244001; Contract No. C0617**

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

BID DOCUMENTS

ADD At the end of paragraph 8. Pre-Bid Conference and Site Showing.

"A second opportunity will be provided to attend a mandatory Pre-bid conference for this Project on July 27, 2016. The conference will convene at 10:30 am at the equestrian parking lot at Rancho San Antonio County Park, Los Altos, California. This meeting will include the same information presented at the first Pre-bid Conference.

Please note, this second Pre-bid conference is mandatory **ONLY** for firms that did not attend the first Pre-bid conference on Wednesday, July 13, 2016. No other Pre-bid conferences will be held for this Project."

THIS ADDENDUM NO. 2, WHICH CONTAINS 1 PAGE, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

Melanie Richardson, P.E.
Deputy Operating Officer
Watershed Design and Construction Division

Date: 7-18-16

**ADDENDUM NO. 2
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO DETENTION BASIN**

Page 1 of 1



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August 3, 2016

ADDENDUM NO. 3
TO CONTRACT DOCUMENTS FOR THE
PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN
Project No. 26244001; Contract No. C0617

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

SPECIFICATIONS AND CONTRACT DOCUMENTS

TABLE OF CONTENTS

DELETE Articles:

“5.10. DUST CONTROL
5.11. EXCAVATION SAFETY PLANS
5.12. ASBESTOS-RELATED WORK
5.13.SUBSTITUTIONS”

REPLACE with:

“5.10. DISPUTE REVIEW BOARD
5.10.01. GENERAL
5.10.02. DRB QUALIFICATIONS
5.10.03. ESTABLISHMENT OF THE DRB
5.10.04. DRB MEETINGS
5.10.05. DISPUTE RESOLUTION
5.11. ESCROW BID DOCUMENTS
5.11.01. INTRODUCTION
5.11.02. PURPOSE
5.11.03. FORMAT AND CONTENTS
5.11.04. SUBMITTAL
5.11.05. STORAGE
5.11.06. EXAMINATION
5.11.07. FINAL DEPOSITION
5.12. PARTNERING

ADDENDUM NO. 3
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO DETENTION BASIN

Page 1 of 23

5.12.01. PARTNERING RELATIONSHIP
5.12.02. PROFESSIONALLY-FACILITATED PROJECT PARTNERING
5.13. DUST CONTROL”

ADD Articles:

“5.14. EXCAVATION SAFETY PLANS
5.15. ASBESTOS-RELATED WORK
5.16. SUBSTITUTIONS”

REPLACE in its entirety Article 18.12. “PAYMENT” with:

“18.12 VECTOR AND MOSQUITO CONTROL”

ADD Article “18.13. PAYMENT”

REPLACE the first two items of Appendix E with:

“NPDES GENERAL PERMIT (ORDER #99-08-DWQ, AS AMENDED BY 2010-0014-DWQ
AND 2012-0006-DWQ)

NPDES GENERAL PERMIT ATTACHMENT D RISK LEVEL 2 REQUIREMENTS (2009-
0009-DWQ, AS AMENDED BY 2010-0014-DWQ AND 2012-0006-DWQ)”

SPECIAL PROVISIONS

Section 13. Special Requirements

Article 13.07. District Furnished Materials and Equipment

DELETE Paragraph A.5. in its entirety.

DELETE Paragraph D. in its entirety.

DELETE Paragraph E. in its entirety.

Section 15. Work Constraints and Site Restrictions

Article 15.01. General Work Constraints

ADD Paragraph F. as follows:

“F. Work within the bed, bank, channel, and associated riparian habitats shall be confined to the period between May 1 and October 15. Revegetation work in a given reach is not confined to this work period but shall be completed by December 31 within the wet season following completion of the project in that reach.”

Article 15.07. Access to Job Site

REPLACE Paragraph D. in its entirety with:

“D. The project location and haul route access point (AP) are shown on the Drawings. Access point for construction, other than the access point shown on the Drawings, must be approved by the Engineer. The Contractor shall not use Cristo Rey Drive to access the site.”

Section 17 Permits and Regulations

Article 17.01.01. District Obtained Permits

REPLACE Paragraph A.1. in its entirety with:

“1. NPDES Construction General Permit No. 99-08-DWQ, as amended by 2010-0014-DWQ and 2012-0006-DWQ (attached in Appendix E of these Specifications)”

Article 17.02. Hours of Work

ADD Paragraph D. as follows:

“D. Between the hours of 10 a.m. and 2 p.m., Monday through Friday, the Contractor may be required to temporarily stop hauling operations passing behind the Gate of Heaven Cemetery Chapel and to limit noise levels of work activities potentially impacting memorial services.

1. The Contractor shall be responsible for coordination with the Gate of Heaven Cemetery staff to obtain tentative and final schedules of memorial services impacting construction operations. The schedule shall be communicated to and provided to the Engineer on the same working day on which it is received.
2. During memorial services, hauling behind the chapel shall cease. Work activities shall be limited to those items with noise levels which will not impact the memorial service. Noise levels shall not exceed limitations for single family residential area during Weekday, 7p.m. to 7 a.m. restrictions. Refer to section 17.03 for additional information.
3. Upon confirmed completion of the service, the Contractor may resume hauling behind and work activities near the chapel.”

Article 17.04. Air Pollution

ADD Paragraph G. and H. as follows:

“G. The Contractor shall be subject to periodic inspections of equipment and practices to ensure that appropriate BMPs are implemented.”

- H. The Contractor shall take corrective actions in conformance with BAAQMD requirements to resolve issues revealed by these inspections or revealed by incoming complaints.”

Article 17.05. Spillage and Dust

REPLACE the first sentence of Paragraph C.1. with:

“All exposed soils, including but not limited to parking areas, soil piles, graded areas, unpaved access roads, and staging areas, shall be watered frequently but no less than twice per day unless soils are already sufficiently moist to avoid dust.”

Article 17.06. Traffic Control

ADD Paragraphs P. through S. as follows:

- “P. Provide a minimum of 72-hour advance notification if access to driveways or private roads will be affected. Limit effects on driveway and private roadway access to working hours and ensure that access to driveways and private roads is uninterrupted during non-work hours. If necessary, use steel plates, temporary backfill, or another accepted measure to provide access. When special needs or events require unimpaired access for local businesses and residents, 7 days advance notification will be provided.
- Q. Provide crossing guards and/or flaggers as needed or as directed by the Engineer to avoid traffic conflicts and ensure pedestrian and bicyclist safety.
- R. Notify emergency service providers, and provide emergency access by whatever means necessary to expedite and facilitate the passage of emergency vehicles. Ensure clear emergency access to all existing buildings and facilities at all times.
 - 1. Emergency access plan shall be submitted as part of the overall traffic control plan.
- S. Locate all stationary equipment as far away as possible from areas used by vehicles, bicyclists, and pedestrians.”

Article 17.08. Parking

ADD Paragraph E. as follows:

- “E. If adequate space for parking is not available at the site and staging area, the Contractor shall provide an offsite parking area at another suitable location, and coordinate the daily transport of construction vehicles, equipment, and personnel to and from the work site as needed.”

Section 18. Environmental

Article 18.01. Compliance with NPDES General Permit

REPLACE the hyperlink in Paragraph A. with:

["http://www.swrcb.ca.gov/water_issues/programs/stormwater/constpermits.shtml"](http://www.swrcb.ca.gov/water_issues/programs/stormwater/constpermits.shtml)

Article 18.01.01. SWPPP

REPLACE Paragraph B. in its entirety with:

"B. The District has developed a Draft Storm Water Pollution Prevention Plan (SWPPP) for revision by the Contractor prior to submittal to the SWRCB SMARTS registration and reporting system and implementation during construction. The SWPPP identifies appropriate storm water pollution prevention and treatment measures or Best Management Practices (BMPs) to reduce pollutants in storm water discharges from the Project's site in connection with construction activities. Contractor shall review the Draft SWPPP with the Engineer, add information and attachments as required to provide a complete SWPPP document, and, if necessary, propose any modification to the SWPPP for approval by the Engineer. Changes to the District-prepared Draft SWPPP shall include those items necessary to provide a complete SWPPP document and still meet the objectives of the storm water pollution control program. Once the SWPPP is accepted by the District and Contractor, Contractor shall provide electronic documents as required for upload to the SMARTS reporting system, and shall implement the provisions of the SWPPP, maintain and update the plan, as deemed necessary, as required by the State Construction General Permit and with the approval of the Project Engineer, throughout the construction phase. A copy of the SWPPP shall be made readily available onsite throughout the construction period and shall include name and telephone number of the contractor-designated personnel responsible for the SWPPP activities. The Contractor shall refer to the following manuals in reviewing and proposing any necessary change to the SWPPP:

1. Guidelines for Construction Projects prepared by California Regional Water Quality Control Board (available for purchase on DVD at <http://store.abag.ca.gov/construction.asp#e>), and
2. Erosion and Sediment Control Field Manual (4th Edition) prepared by the California Regional Water Quality Control Board (available for purchase on DVD at <http://store.abag.ca.gov/construction.asp#e>), and
3. Storm Water Best Management Practice Handbook for Construction Activity (2015 or latest edition) prepared by California Storm Water Quality Association (available by subscription at <https://www.casqa.org/casqastore/entity/tabid/169/c-4-best-management-practice-bmp-handbooks.aspx>.)"

DELETE from the first sentence of Paragraph D.:

" . . . in wet season from October 1st through April 30th . . ."

Article 18.01.02. Storm Water BMPs

REPLACE Paragraph A. with:

- A. “Storm Water BMP’s shall be in accordance with the **2015** CASQA *Construction BMP Handbook/Portal* or most recent version thereof, which is available for purchase at:
<https://www.casqa.org/casqastore/entity/tabid/169/c-4-best-management-practice-bmp-handbooks.aspx>.”

REPLACE Paragraph C. with:

- “C. The Contractor shall design, construct, operate, inspect, and maintain the BMP’s in accordance the NPDES general Permit and the instructions provided in the **2015** CASQA *Construction BMP Handbook/Portal* or most recent version thereof.”

Article 18.05. Regulated Material Management

ADD Article **18.05.03. Hazardous Material Encounters, Investigation and Remediation** as follows:

“18.05.03. Hazardous Material Encounters, Investigation and Remediation

- A. In the event that unknown hazardous materials are encountered during construction or maintenance activities, all work in the area of the discovery will stop and the District will conduct a Phase II hazardous materials investigation to identify the nature and extent of contamination and evaluate potential impacts on project construction and human health. If necessary, based on the outcomes of the Phase II investigation, the District will implement Phase III remediation measures consistent with all applicable local, state, and federal codes and regulations. Construction in areas known or reasonably suspected to be contaminated will not resume until remediation is complete. If waste disposal is necessary, the Contractor shall ensure that all hazardous materials removed during construction are handled and disposed of by a licensed waste-disposal contractor and transported by a licensed hauler to an appropriately licensed and permitted disposal or recycling facility, in accordance with local, state, and federal requirements. Reference is also made to Article 6.34.”

Article 18.08. Other Wildlife and Fish Species

ADD Paragraphs D. through I. as follows:

- “D. The Contractor shall cooperate with the District Biologist on the implementation of several measures, including; worker awareness of which sensitive species are protected, their nesting seasons and seasonal variability; surveys to determine the presence of sensitive species in the project area; establishment of protective buffer zones around nests; and periodic monitoring to assure the adequacy of the compliance measures.
- E. The Contractor shall cooperate with District Biologist and be aware of

sensitive species breeding seasons and variability; monitor the project site; perform preventative and deterrence measures; preserve and protect pre-established protective buffer zones; perform surveys to determine the potential for protected species to be in the project area; establish new protective buffer zones, as required; periodically monitor to assure the adequacy of the compliance measures; and perform any other work as specified herein to comply with all applicable statutes.

- F. The Contractor shall employ a biologist meeting the qualifications of “Qualified Biologist” as listed in Section 18.07.03 to supervise all work under this Article. At any time during the Contract, the District reserves the right to request a replacement biologist due to non-performance or for reasons outlined in Article 9.05 of these Specifications.
- G. Prior to the District releasing the site to the Contractor, the Engineer, the Contractor, and the District Biologist shall assess the site to determine the presence of sensitive species protected by all applicable statutes, as well as the existing protective buffer zones within or near the construction areas.
- H. A Contractor’s Biologist will monitor regulatory compliance and coordinate with the Engineer, in conformance with: (i) this Article; (ii) the project-specific Mitigation Monitoring and Reporting Program (MMRP) requirements relating to this Article; and (iii) all applicable permit conditions.
- I. The District will have monitored and controlled the site, including installing and maintaining protective buffer zones as necessary, until the issuance of the Notice to Begin Work, at which time the site will be released to the Contractor. Upon accepting the site, the Contractor shall assume complete responsibility for the site, including vegetation management and existing protective buffer zones, and shall perform all required work as specified herein.”

ADD Article 18.08.05. Submittals as follows:

“18.08.05. Submittals

- A. Submit resume of qualifications of Contractor Biologist for the Engineer’s review. The Contractor’s biologists’ qualifications must meet the minimum requirements as specified for “Qualified Biologist” listed in 18.07.03.C. The résumé shall be submitted and must be favorably reviewed by the Engineer prior to any commencement of work at the site.
- B. Submit survey reports to the Engineer within two days upon completion of the survey and at least two days prior to commencement of the project-related activities.
- C. Submit to the Engineer, no later than 15th day of each month, a monthly report prepared and signed by the Contractor’s biologist that documents the activities of the Contractor including, at a minimum, the status protective buffer zones, and their locations, as well as report the current status of previously documented sensitive species.

- D. Maintain and, when requested by the Engineer, submit a log, including photo-documentation, weekly documenting the time, date, condition of sensitive species, and any actions taken during inspections.
- E. Contractor will provide product data for fencing for protective buffer zones and any shop drawings as deemed appropriate by the Engineer.
- F. If Contractor wishes to modify the dimensions of any protective buffer zone a written proposal of such modification must be submitted for review and approval by the Engineer. The submittal must contain the Contractor Biologist's written justification for the proposed modification and shall include a description of the anticipated effects on the sensitive species."

REPLACE Article 18.12. Payment in its entirety with

"18.12. Vector and Mosquito Control

- A. Prior to construction, the Contractor shall retain a qualified professional to prepare a mosquito and vector control plan for the Project facility. The plan will be developed in coordination with the Engineer and with the Santa Clara County Vector Control District (SCCVCD) and will be subject to SCCVCD approval. The plan will comply with requirements of the County's Integrated Pest Management (IPM) Ordinance (NS-517.70). The approved plan will be implemented as part of the Project. The plan will identify areas where mosquito larvae are likely to be present onsite (e.g., in areas with standing water) and will specify mosquito management methods. The management methods may include the use of chemicals (e.g., pesticides), biological methods (e.g., use of mosquito fish *Bacillus thuringiensis* in water bodies), and/or control of excess runoff and areas where water can accumulate.
- B. To prevent mosquito breeding on construction sites, the Contractor shall ensure that surface water is gone within four days (96 hours). All outdoor grounds shall be examined and unnecessary water that may stand longer than 96 hours shall be drained. Construction personnel shall properly dispose of unwanted or unused artificial containers and tires. If possible, any container or object that holds standing water that must remain outdoors will be covered, inverted, or have drainage holes drilled."

ADD Article 18.13. Payment as follows:

"18.13. Payment

- A. Unless noted otherwise, full compensation for work involved in complying with all requirements under Section 18 including providing a qualified contract biologist, and cooperation with the District's Biologist, Paleontologist, and Arborist shall be considered incidental and included in the contract prices paid for the various items of work involved and no additional time or compensation will be allowed therefor."

TECHNICAL PROVISIONS

Section 22. PREPARATORY WORK

Article 22.02. Preservation (ESA) Fence Riparian Area and Tree Protection—Bid Items No. 7 and 8

REPLACE Paragraph C.1. with:

- “1. Upon receiving approval and before the start of construction, the Contractor shall place preservation (ESA) and tree protection fencing as shown on the Drawings and as specified herein. Preservation (ESA) fencing shall be installed per Article 22.03, Riparian Habitat Protection, of these Specifications to protect vegetation and root zones from damage during construction. Tree protection fencing shall be installed outside of the tree driplines as approved by the Engineer and as supervised by the Contractor’s Arborist to protect root zones from damage during construction.”

ADD Items 6. and 7. to the end of Paragraph C.:

- “6. Contractor shall provide other methods of tree protection, such as trunk wrapping, root mulching, access route gravelling, etc. consistent with International Society of Arboriculture tree protection zone recommendations, as required by the Engineer and by the Contractor’s Arborist.
7. The Contractor shall monitor protected trees for a period of three years following the end of construction. Trees that do not survive shall be replaced.”

Article 22.03. Riparian Habitat and Wetland Protection

A. Scope of Work

ADD Item 4. as follows:

- “4. Equipment shall not be operated in wetland areas, including but not limited to ponded, flowing, or wetland areas, or within the live stream channel below the level of top-of-bank.”

C. Placement

REPLACE Item 1. with:

- “1. The Contractor shall install preservation (ESA) fencing to delimit work areas and protect existing trees and plants and root zones prior to initiation of site preparation and earthwork. Tree protection methods shall be consistent with International Society of Arboriculture tree protection zone recommendations.

Fencing and other temporary barriers will be field marked by the Contractor for approval by the Engineer prior to installation. Only after all tree and plant protection has been installed, and the Engineer has inspected and given written approval of the tree and plant protection, will the Contractor be allowed to begin construction.”

Article 22.08. Clearing and Grubbing—Bid Item No. 13

A. Scope of Work

ADD the following sentence at the end of 4.:

“Fencing installation shall be supervised by the Contractor’s Arborist.”

Section 23. CONTROL OF WATER

Article 23.01. Dewatering Allowance (Control of Water)—Bid Item No. 30

C. Execution

REPLACE the second sentence of Item 23. with:

“All work will be completed according to Article 11.06., “Schedule of Work.”

D. Testing

REPLACE Item 1. with:

“1. Contractor equipment, sampling, preservation, and analysis of dewatering discharges shall comply with the procedures in the Caltrans Construction Site Monitoring Program Guidance Manual, August 2013, or latest version. Frequency of testing shall comply with the documents in Appendix B.”

E. Submittal

ADD Items 2. through 5. as follows:

“2. Contractor shall submit cut sheets for each piece of monitoring equipment to be used in the field. Equipment shall be appropriate for and intended for measurement or analysis of the constituent to be monitored.

3. Contractor shall submit maintenance logs and calibration data from the last 12 months for each piece of monitoring equipment, to be used in the field. Contractor shall provide calibration data for equipment when replacement equipment is to be used. When equipment is in use on the site for more than 12 months, Contractor shall provide updated calibration data, as required by the Engineer.

4. If used, the Contractor shall submit the name, address, and qualifications of the lab analyzing samples. The lab shall be certified by the State Department

of Health Services. A list of state-certified laboratories that are approved is available online at http://www.waterboards.ca.gov/drinking_water/certlic/labs/

5. Records of monitoring data and test results shall be maintained by the Contractor for three (3) years, or per the requirements of the permitting Agencies, whichever is longer.”

Section 24. EARTHWORK

Article 24.07. Structural Evacuation

B. Materials and Placement

ADD Items 10. and 11. as follows:

“10. At end of work day excavations within street and traveled way shall be:

- a. Backfilled and paved with temporary paving such that finished surface if flush with existing pavement; OR
- b. Adequately covered with steel plate bridging; OR
- c. Backfilled and paved with permanent paving.

If steel plate bridging is used, the steel plate must be removed within 48 hours after its installation.

Temporary AC shall be removed entirely when permanent backfill and resurfacing are installed. Permanent AC shall be placed in multiple lifts if the required AC section is 5 inches or thicker. Trench backfill materials shall be properly compacted prior to placing AC.

CDF will not be allowed as temporary paving.

11. When backfilling operation in a traveled way cannot be properly completed by the end of the working day, steel plate bridging with nonskid surface will be required. Contractor shall maintain the steel plates, shoring and asphalt concrete ramps as necessary while they are in use. Unless specifically permitted by Engineer, steel plates placed over the trench shall not exceed four consecutive days in any given week.

Steel plates must extend a minimum of 12 inches beyond edges of the trench. Secure steel plates against displacement by using adjustable cleats, shims or other devices to minimize noise. Shore trench adequately in accordance with City or County requirements to support the steel plates and traffic loads. Approach plates and ending plate shall be anchored to the roadway by a minimum of two dowels predrilled into the corners of the plate and drilled 2 inches into the pavement. Subsequent plates are butted to each other. Fine graded asphalt concrete shall be compacted to form ramps with maximum slope of 8.5 percent with a minimum 12-inch taper to cover all edges of the steel plates on the pavement.

ADDENDUM NO. 3

PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO DETENTION BASIN

Within the traveled way on arterial and collector streets, or at any other locations determined by Engineer, steel plates shall be countersunk so that the top of the plate is flush with the adjacent grade in accordance with Caltrans standards. The pavement shall be cold-planed to a depth equal to the thickness of the plate and to a width and length equal to the dimensions of the plate. Approach plates and ending plates (if longitudinal placement) shall be attached to the roadway by a minimum of two dowels predrilled into the corners of the plate and drilled two inches into the pavement. Subsequent plates are to be butted and attached together by tack welding or other method approved by Engineer. All other provisions of this subsection shall apply.

The following table shows the required minimum thickness of steel plate bridging required for a given trench with:

TRENCH WIDTH	MINIMUM PLATE THICKNESS
1.0 foot	1/2 inch
1.5 feet	3/4 inch
2.0 feet	7/8 inch
3.0 feet	1 inch
4.0 feet	1 1/4 inch

Steel plate bridging shall be steel plate design for HS20_44 truck loading per Caltrans Bridge Design Manual. Steel must have a non-skid surface with a minimum coefficient of friction of 0.35 as determined by California Test Method 342. The plating will be required for both transverse and longitudinal trenches.

When steel plates are removed, the dowel holes in the pavement shall be backfilled with either fine graded asphalt concrete mix, concrete slurry, or an equivalent slurry satisfactory to Engineer.”

Article 24.10. Trench Backfill

B. Materials and Placement

ADD text to the end of Item 8. as follows:

“Warning tape shall be plastic, a minimum of 2-inches wide, and shall be appropriate for the installation with continuous printing of the words “Caution Buried Water Line,” “Caution Buried Storm Drain Line,” etc. Warning tape shall be by Calpico or equal.”

C. Testing and Submittals

ADD Item 4. as follows:

“4. Contractor shall submit cut sheets for each type of underground warning tape for the different utilities. Contractor shall comply with the requirements of Article 24.10.B.8 of these Specifications.”

Section 27. TRAFFIC CONTROL

Article 27.01. Traffic Control—Bid Item No. 58 and 59

A. Scope of Work

REPLACE the Appendix reference in Item 2. with:

“...the UPRR Commercial Private Road Crossing Agreement in Appendix **B.**”

ADD Item 5. as follows:

“5. This work shall include traffic control on Cristo Rey Drive to construct improvements within City of Cupertino right-of-way. The contractor is responsible to obtain and comply with all the conditions and restrictions of the traffic control and/or encroachment permits issued by the City. “

B. Materials and Placement

REPLACE Item 2. in its entirety with:

“2. The Contractor shall provide the Engineer a minimum 30-day notification of any traffic lane/trail closures necessary during the construction of the project. Proper notification shall be given to the Engineer so that the Engineer can coordinate the notification of all residents and commercial buildings, within a 750-foot radius of the project site.”

ADD text “City” to first sentence in Item 4. as follows:

“4. Damage done by the Contractor during the course of its work to adjacent Cemetery, County Park, **City** or private property . . .”

ADD Item 13. as follows:

“13. The Contractor shall maintain two-way traffic flow on arterial roadways accessing active work sites except where closure is needed to accommodate construction of project facilities, or unless otherwise allowed by the Agency having jurisdiction. Where temporary lane closures cannot be avoided, two-way flow may be provided as flow in alternating directions, controlled by flaggers. The contractor shall provide advance construction warning signage for lane closures in conformance with Section 27.03 “Traffic Control Signage and Construction Area Signage”.”

Article 27.06. Concrete Barrier—Bid Items No. 63 and 64

B. Materials and Placement

REPLACE the second sentence of Item 1. with the following:

“Concrete barriers shall be constructed on a layer of **Class 2** Aggregate Base as shown on the plans.”

Section 28. PAVEMENT CONSTRUCTION

Article 28.02. Open Graded Asphalt Concrete—Bid Item No. 68

REPLACE Paragraph A. in its entirety with:

“A. Scope of Work

1. Open Graded Asphalt Concrete shall consist of all labor, materials, equipment, and incidentals required to furnish and place, open graded asphalt concrete pavement for porous asphalt pavement section, prime coat, paint binder, and fog seal, adjusting existing monument boxes, gas meter boxes, valve boxes, electrical vaults, communication boxes, cleanouts, manholes, and other improvements to match the finished grades and adjacent grades as shown on the Drawings, as specified in these Specifications and Section 39 of the State Specifications, and as directed by the Engineer.
2. Specifications herein for Asphalt Treated Permeable Base (ATPB) are applicable only if Contractor selects to use it as part of the asphalt concrete surface layer, upon the approval of the Engineer.

References

- a. Unless otherwise shown or specified, all materials and methods shall conform to:
 - 1) The cited sections of the State of California, Department of Transportation Standard Specifications 2006 (State Standard Specifications).
 - 2) National Asphalt Pavement Association (NAPA), “Porous Asphalt Pavements for Stormwater Management” order number IS-131 and “Design, Construction and Maintenance of Open-Graded Asphalt Friction Courses” order number IS-115.
- b. Porous Asphalt pavement section shall conform to the Drawings and to the requirements of Section 28.07 of these specifications.”

REPLACE Paragraph B. with:

“B. Materials

1. Materials for Open Graded Asphalt Concrete shall comply with State Specification Sections 39 and 92 for Open Graded Friction Course (OGFC).
2. Open Graded Asphalt Concrete / Friction Course (OGAC/OGFC): Use 3/8- or 1/2-inch maximum size OGFC aggregate per State Standard Specifications Section 39-2.02, with polymer modified asphalt binder Grade PG58-34 PM when placement temperature is below 70 °F, or with asphalt binder Grade PG 64-10 when placement temperature is above 70°F.

3. Asphalt Treated Permeable Base: Use aggregate per State Standard Specifications Section 29-1.02 with polymer modified asphalt binder Grade PG58-34 PM when placement temperature is below 70 °F, or with asphalt binder Grade PG 64-10 when placement temperature is above 70°F.
4. Air Voids: Air void content for OGFC and ATPB materials shall be 16 percent minimum as determined by ASTM D 3203 test method.
5. Asphalt Content: Asphalt content shall be 5.75 percent minimum and 3 percent minimum by weight of total mix for OGAC/OGFC and ATPB materials, respectively.
6. Draindown: Draindown for OGAC/OGFC and ATPB materials shall be 0.3 maximum as determined by ASTM D 6390-05 test method.”

REPLACE Paragraph C. with:

“C. Placement

1. Storing, proportioning and mixing of the OGAC/OGFC and ATPB shall conform to State Standard Specifications Section 39.3.
2. Contractor shall deliver full specified thicknesses for ATPB, if used, and OGAC/OGFC materials. No combination of high and low tolerances that compromise the section will be permitted.3. Paving Operation: Paving operations shall be conducted following the completion of other adjacent site improvements. Each receiving layer should be free from debris or any other deleterious material before placement of the layer above. Once paving is complete, the surface shall be protected from silt, uncontrolled runoff from adjacent areas or any other contaminants which may damage the drainage performance of the Porous Asphalt Pavement.
3. Place asphalt concrete surface courses (OGAC/OGFC and ATPB) in 2- to 4-inch lifts using track pavers in accordance with State Standard Specifications Sections 39-5 and 39-6.
4. As each asphalt concrete course is being placed, extreme care shall be taken not to discolor or damage the adjoining curbs, fences, or any other structures or facilities. If damage occurs, repair, and if satisfactory repair cannot be made, remove and replace the affected structures or facilities as directed.
5. Asphalt concrete shall be spread and compacted with rollers of a weight that will not result in the crushing of aggregate. Consult NAPA IS-131 and IS-115 publications.
6. Finish surfaces shall be smooth and without sharp breaks and shall allow the pavement to drain.

7. After final rolling, traffic should be restricted for the first 24 hours, as the pavement may be more tender during this time.”

REPLACE Paragraph D. with:

“D. Testing & Submittals

1. Test and submittals for Open Graded Asphalt Concrete shall comply with Sections 9 and 10 of these Specifications and Sections 39 and 92 of the State Specifications.
2. Open-Graded Asphalt Concrete / Open Graded Friction Course (OGAC/OGFC): Submit laboratory test reports for aggregate gradation and quality testing prior to mixing with asphalt binder conforming to State Standard Specifications Section 39-2.02. Submit laboratory test reports for asphalt binder conforming to State Standard Specifications Section 92.
3. Asphalt Treated Permeable Base (ATPB): Submit laboratory test reports for aggregate gradation and quality testing prior to mixing with asphalt binder conforming to State Standard Specifications Section 29-1.02A. Submit laboratory test reports for asphalt binder conforming to State Standard Specifications Section 92.
4. Asphalt Concrete Mix: Submit laboratory test reports for OGFC and ATPB materials for air voids (ASTM D 3203), draindown (ASTM D6390-05).
5. See Section 28.07 for additional requirements.”

Article 28.06. ½ Inch Crushed Aggregate and 2 Inch Crushed Aggregate—Bid Items No. 72 & 73

A. Scope of Work

ADD Item 2. as follows:

- “2. Porous Asphalt pavement section shall conform to the Drawings and to the requirements of Section 28.07 of these specifications.”

ADD Article 28.07. Porous Asphalt Pavement as follows:

“28.07. Porous Asphalt Pavement

A. Scope of Work

1. Porous Asphalt Pavement shall consist of all labor, materials, equipment, and incidentals required to grade, to furnish and place perforated plastic pipe, ½” crushed aggregate, geotextile, 2”-3” crushed aggregate reservoir course, ½” crushed aggregate choker course, and porous asphalt (open graded asphalt concrete) to match the lines and grades as shown on

the Drawings, and testing as specified in these Specifications applicable sections of the State Specifications, and as directed by the Engineer.

2. National Asphalt Pavement Association (NAPA), "Porous Asphalt Pavements for Stormwater Management" order number IS-131 and "Design, Construction and Maintenance of Open-Graded Asphalt Friction Courses" order number IS-115.

B. Materials

1. Open Graded Asphalt Concrete. See Section 28.02
2. Choker Course: ½" Crushed Aggregate. See Section 28.06
3. Reservoir Course: 2" – 3" Crushed Aggregate. See Section 28.06
4. Goetextile Fabric. As shown on the Drawings.
5. "Choker" and "Reservoir" course materials shall be clean and free from organic matter and other deleterious substances, and shall be of such nature that they can be compacted readily, and rolling to form a firm, stable base. Aggregates may include material processed from reclaimed asphalt concrete, Portland cement concrete, lean concrete base, cement treated base or a combination of any of these materials. The amount of reclaimed material shall not exceed 50 percent of the total volume of the aggregate used.

C. Placement

1. The layers comprising porous asphalt pavement section shall be as shown on the Drawings.
2. Clear area to be paved of all debris and organic material. Verify that the subgrade is not compacted and is at maximum 5% slope for receiving pavement comprising materials.
3. Before beginning work and during construction, take all steps necessary for protection of existing improvements.
4. The site area for the Porous Asphalt Pavement shall be protected from excessive heavy equipment running on the subgrade compacting soil and reducing permeability.
5. If excavation is required to reach the desired subgrade level, excavate using equipment with tracks or over-sized tires. Narrow rubber tires should be avoided since they compact the soil.

6. As soon as the excavation reaches the desired final grade, place the geotextile filter fabric. Overlap the filter fabric a minimum of 16 inches. The filter fabric shall extend at least four feet outside the bed to prevent sediment-laden runoff from entering the bed. Fold this excess fabric will over the "reservoir" course to temporarily protect it from sediment until the layer above placed.
7. Install perforated underdrain pipes as shown on the plans, and verify grades.
8. Place and compact "reservoir" course taking care not to damage the filter fabric in 8 to 10 inches lift using track equipment. Compact each lift with a single pass of a light roller or vibratory pate compactor.
9. Flood the Porous Asphalt Pavement as directed by the Engineer after 24 hours to confirm permeability.

D. Testing and Submittals

1. Contractor shall notify the District at the completion of the various stages of the operation as indicated below and shall allow two (2) working days for testing operations prior to proceeding with subsequent construction.
 - a. After all rough grading is complete and subgrade has been prepared to receive "reservoir" course.
 - b. After placement and compaction of "Reservoir" course, and is prepared to receive "Choker" course.
 - c. After placement and compaction of "Choker" course, and is prepared to receive ATPB or OGAC/OGFC.
 - d. After placement and compaction of ATPB, and is prepared to receive OGAC/OGFC.
2. Porous asphalt pavement installation contractor shall have installed porous asphalt pavement at a minimum of five (5) separate project sites in Northern California in the last five (5) years with a minimum of 10,000 s.f. of porous asphalt pavement installed at each site. Contractor shall submit with their bid proof that the porous asphalt pavement installer meets or exceeds these requirements (see Bidder's Experience and Financial Responsibility). Provide Owner contact information for each project listed (Name, Address, Phone Number). Upon request, the contractor may be required to provide the District with project photos of previous porous asphalt pavement installations.

3. Warranty for the finished porous asphalt pavement shall be provided by the Contractor for a period of five (5) years from the date of final acceptance. Warranty to stipulate that the pavement system will drain freely without ponding of surface water and that the pavement will not ravel or otherwise degrade. The warranty shall remain valid for the following prescribed uses: normal parking lot vehicular traffic including trash and recycling collection trucks, pedestrian traffic and emergency vehicles.

E. Measurement

1. Porous Asphalt Pavement will not be measured.
2. 4" Perforated Plastic Pipe will not be measured.

F. Payment

1. Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required for Porous Asphalt Pavement as specified in these Specifications and as directed by the Engineer shall be included in the unit price bid for applicable items of work, and no additional payment will be made therefor.
2. Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required for 4" Perforated Plastic Pipe as specified in these Specifications and as directed by the Engineer shall be included in the unit price bid for applicable items of work, and no additional payment will be made therefor."

Section 30. ELECTRICAL

Article 30.01. Electrical Systems—Bid Item No. 87 and 88

B. Scope of Work

REPLACE Item 2. with:

- "2. Restroom Building (Bid Item No.88)
 - a. Provide for and coordinate with electrical utility service. Provide and install all necessary utility service point equipment and facilities to connect utility with new restroom panel. All such equipment and facilities shall comply with the utility's requirements for location, accessibility, and equipment type and arrangement.
 - b. Arrange, schedule, and coordinate all outages required to expand, upgrade, or extend existing utility services.

- c. Confirm utility acceptance of the proposed service point equipment in its intended location prior to submission of equipment for approval.
- d. Electrical Work shall consist of all work and materials necessary to furnish, transport, assemble, and install new restroom service as directed by the utility. Included in this item of work shall be installation of the necessary conduits, fittings, expansion/deflection fittings, joint compound, trenching, backfilling, compaction, surface restoration, pull boxes, junction boxes, circuit breakers, terminal blocks, duct line markers, safety measures, all the necessary electrical wiring, testing, and all other miscellaneous items necessary for a complete and operable installation in accordance with the manufacturer's specifications, manufacturer's requirements and recommendations, City of Cupertino Details, utility, the NEC, and as shown on the Drawings, and as specified in these Specifications."

J. Electrical Equipment

2. Material

ADD Items f. and g. as follows:

"f. Float Switch

- 1. The float switch shall be the direct acting non-mercury, float type, containing a single pole throw steel switch which actuates when the longitudinal axis of the float is horizontal and deactuates when the liquid level falls 1 in. below the actuation level. The float housing shall be a chemical resistant, watertight plastic casing. Each unit shall be supplied with sufficient cable to extend to a junction box without splices and all necessary stainless steel mounting brackets and hardware. The switch shall comply with NSF-61 certifications.
- 2. The float switch shall be APG FT-100 or equal.

g. Red Flashing Signaling Light

- 1. 125 Class Standard LED beacon, rated NEMA 4X, that is corrosion resistant, lens is made of shatter resistant polycarbonate, will operate from a 120VAC input source, includes protective wire guard and lens shall be red. Red flashing signaling light shall be Edwards Signaling 125LEDFR120A or approved equal."

Section 34. PLANTING

Article 34.02. Planting—General

C. Placement

REPLACE the first sentence of Item 3. with:

ADDENDUM NO. 3
 PERMANENTE CREEK FLOOD PROTECTION PROJECT
 RANCHO SAN ANTONIO DETENTION BASIN

“For the Seasonal Wetland Area, Riparian Areas, **Frog Enhancement Areas**, and North Basin Slopes, plant material shall be installed in typical patterns and spacing shown in the Drawings and confirmed at the site by the Engineer.”

REPLACE numbering in Article 34.02.C Placement, to remove repetition of the use of 34.02.C “3.” Replace items after 34.02.C.3.a. as follows:

- “4. For the Parking Area, plant material shall be installed at locations shown and detailed in the drawings and confirmed at the site by the Engineer.
5. The Contractor shall field mark / flag all plant installation locations, identified by plant species, before installation. The Contractor shall request review of the field markings by the Engineer 5 weekdays, minimum, in advance of the Contractor’s anticipated plant installation date.
6. Planting locations may be modified at the discretion of the Engineer, if large rocks, tree roots, or other underground obstructions are encountered that interfere with plant installation.
7. Planting holes shall be excavated to the dimensions detailed in the Drawings. Depending on the planting surface, it is expected that the planting hole excavation may require, but may not be limited to, the use of one of the following methods: hand digging, pry bar, or auger. After the holes have been excavated, scarify the inside surfaces of the holes to enable root penetration. Low ground pressure equipment shall be used to minimize compaction. Equipment types and access routes shall be approved by the Engineer prior to beginning work.
8. Shallow circular planting basins 4” high, minimum diameter 36”, shall be constructed as shown on the Drawings. Berms shall not be constructed where erosion control blankets are to be installed. Berms shall be sufficiently compacted to allow the basins to fill with rainwater without leaking.
9. Mulch for areas other than the Seasonal Wetland shall be placed, within all planting basins in as shown on the Drawings, at depths specified in this Section. At no time shall mulch be placed within 4 inches of the plant stem. Mulch shall be kept out of the crowns of smaller plants. In the Parking Area planting, mulch shall be additionally installed over the entire area within the parking islands, medians and separators.
10. The Contractor shall be responsible for maintaining the area within 24 inches of any planting in a weed-free (i.e., free of herbaceous vegetation and volunteer seedlings) condition, and watering each planting before inspection and acceptance of installation by the Engineer, and initiation of the Establishment Maintenance Phase. All weeding within this area shall be done by hand to minimize damage to the plantings. See Article 34.01 of these Specifications for more information about weed control.
11. All container plants, cuttings, large seeds, and acorns shall be watered the same day they are planted and maintained moist thereafter. Container plants

shall be sufficiently watered after installation so that water reaches the lower roots.”

Article 34.03. Hydroseeding—Bid Item No. 103

C. Placement

REPLACE Item 9. with:

“9. NOT USED.”

Section 35. ESTABLISHMENT MAINTENANCE

Article 35.01. Establishment Maintenance—Bid Items No. 110-115

C. Placement

REPLACE the first sentence of Item 8. with:

“Naturally occurring large **pieces of** woody debris shall not be removed from the work site unless it is a threat to public safety, promotes erosion, or may damage plantings or irrigation system components.”

E. Submittals

REPLACE Item 3. in its entirety with:

“3. The Contractor shall submit to the Engineer their report on survival counts by **March 15th** of each year.”

CONSTRUCTION MAP AND PLAN

DRAWINGS

REPLACE in their entirety the following drawings (**ATTACHMENT 1**):

G-2 DRAWING LIST

G-5 PROPOSED STAGING AREAS AND CONSTRUCTION SEQUENCING PLAN
– STAGE 1

D-3 EXISTING TOPO AND DEMOLITION PLAN NORTH BASIN

D-4 EXISTING TOPO AND DEMOLITION PLAN SOUTH BASIN

C-13 PARKING LOT PAVING, GRADING AND DRAINAGE PLAN

C-30 PARKING LOT AND ACCESS ROAD STRIPING PLAN

C-31 PARKING LOT AND ACCESS ROAD SIGNING AND STRIPING PLAN

- C-33 PARKING LOT DETAILS
- C-51 DRAINAGE DETAILS
- C-74 RESTROOM BUILDING AND WASTEWATER SYSTEM SITE PLAN
- C-75 RESTROOM BUILDING AND WASTEWATER SYSTEM
ONE-LINE DIAGRAM, CALCULATIONS AND DETAILS
- EC-5 EROSION CONTROL BMP DETAILS

THIS ADDENDUM NO. 3, WHICH CONTAINS 23 PAGES AND ONE ATTACHMENT, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.



Date: 8-3-16

Melanie Richardson, P.E.
Deputy Operating Officer
Watershed Design and Construction Division

Enclosure(s):

ATTACHMENT 1: Revised Plan Sheets G-2, G-5, D-3, D-4, C-13, C-30, C-31, C-33, C-51, C-74, C-75, and EC-5

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**PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN**

ADDENDUM NO. 3

ATTACHMENT 1:

Revised Plan Sheets

G-2, G-5, D-3, D-4, C-13, C-30, C-31, C-33, C-51, C-74, C-75, and EC-5

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SHEET CODE

SHEET DESCRIPTION

SHEET NO.

SHEET CODE

SHEET DESCRIPTION

SHEET NO.

GENERAL

G-1	COVER SHEET	1 OF 107
G-2	DRAWING LIST	2 OF 107
G-2A	GENERAL NOTES AND LEGENDS	3 OF 107
G-3	ABBREVIATIONS	4 OF 107
G-4	SITE PLAN, SURVEY CONTROL AND INDEX PLAN	5 OF 107
G-5	PROPOSED STAGING AREAS AND CONSTRUCTION SEQUENCING PLAN - STAGE 1	6 OF 107
G-5A	PROPOSED STAGING AREAS AND CONSTRUCTION SEQUENCING PLAN - STAGE 2	7 OF 107
G-5B	PROPOSED STAGING AREAS AND CONSTRUCTION SEQUENCING PLAN - STAGE 3	8 OF 107
G-6	CEMETERY MAINTENANCE ROAD REALIGNMENT CONSTRUCTION SEQUENCE PLAN - STAGE 3	9 OF 107
G-7	LINE INDEX	10 OF 107
G-8	SPOIL HAUL ROUTE PLAN	11 OF 107
G-9	TRAIL ACCESS NOTIFICATION PLAN	12 OF 107
G-10	EXISTING UTILITIES AND POTHOLE DATA	13 OF 107
G-11	EXISTING UTILITIES AND POTHOLE DATA	14 OF 107
G-12	EXISTING UTILITIES AND POTHOLE DATA	15 OF 107

DEMOLITION

D-1	DEMOLITION NOTES, LEGEND, AND SCHEDULES	16 OF 107
D-2	EXISTING TOPO AND DEMOLITION PLAN NORTH BASIN	17 OF 107
D-3	EXISTING TOPO AND DEMOLITION PLAN NORTH BASIN	18 OF 107
D-4	EXISTING TOPO AND DEMOLITION PLAN SOUTH BASIN	19 OF 107
D-5	SOIL SALVAGE AREAS NORTH BASIN	20 OF 107
D-6	SOIL SALVAGE AREAS NORTH BASIN	21 OF 107

CIVIL

C-1	PARKING LOT LAYOUT PLAN	22 OF 107
C-2	PARKING LOT ACCESS ROAD REALIGNMENT PLAN AND PROFILE	23 OF 107
C-3	CEMETERY ACCESS ROAD PLAN AND PROFILE	24 OF 107
C-4	HAMMOND-SNYDER LOOP TRAIL LAYOUT AND TYPICAL SECTIONS	25 OF 107
C-5	SPUR TRAIL AND BASIN MAINTENANCE ROADS, LAYOUT AND TYPICAL SECTIONS	26 OF 107
C-6	CEMETERY MAINTENANCE ROAD REALIGNMENT PLAN AND PROFILE	27 OF 107
C-10	NORTH BASIN GRADING PLAN	28 OF 107
C-11	NORTH BASIN GRADING PLAN	29 OF 107
C-12	SOUTH BASIN GRADING PLAN	30 OF 107
C-13	PARKING LOT PAVING, GRADING AND DRAINAGE PLAN	31 OF 107
C-14	PARKING LOT ACCESS ROAD PAVING, GRADING AND DRAINAGE PLAN	32 OF 107
C-20	NORTH BASIN SECTIONS	33 OF 107
C-21	NORTH BASIN SECTIONS	34 OF 107
C-22	SOUTH BASIN SECTIONS	35 OF 107
C-23	ROADWAY, TYPICAL SECTIONS	36 OF 107
C-24	ROADWAY, TYPICAL SECTIONS	37 OF 107
C-25	CEMETERY MAINTENANCE ROAD REALIGNMENT, TYPICAL SECTIONS	38 OF 107
C-30	PARKING LOT AND ACCESS ROAD STRIPING PLAN	39 OF 107
C-31	PARKING LOT ACCESS ROAD, SIGNING AND STRIPING PLAN	40 OF 107
C-32	CEMETERY MAINTENANCE ROAD, SIGNING AND STRIPING PLAN	41 OF 107
C-33	PARKING LOT, DETAILS	42 OF 107
C-40	NORTH BASIN INLET PIPE, PLAN AND PROFILE	43 OF 107
C-41	NORTH BASIN INLET PIPE, PLAN AND PROFILE	44 OF 107
C-42	BASIN OUTLET PIPES, PROFILES	45 OF 107
C-50	OUTFALL DETAILS	46 OF 107
C-51	DRAINAGE DETAILS	47 OF 107
C-52	DRAINAGE DETAILS	48 OF 107
C-53	DRAINAGE DETAILS	49 OF 107
C-54	DRAINAGE DETAILS	50 OF 107
C-60	NORTH BASIN UTILITY RELOCATION PLAN	51 OF 107
C-61	NORTH BASIN UTILITY RELOCATION PLAN	52 OF 107
C-62	SOUTH BASIN UTILITY RELOCATION PLAN	53 OF 107
C-70	ON-SITE WASTEWATER SYSTEM SITE PLAN	54 OF 107
C-71	ON-SITE WASTEWATER SYSTEM PLAN AND SECTION	55 OF 107
C-72	ON-SITE WASTEWATER SYSTEM DETAILS	56 OF 107
C-73	ON-SITE WASTEWATER SYSTEM DETAILS	57 OF 107
C-74	RESTROOM BUILDING ELECTRICAL SITE PLAN	58 OF 107
C-75	RESTROOM BUILDING ONE-LINE DIAGRAM & CALCULATIONS	59 OF 107
C-80	WELL RELOCATION WELL PLAN AND SECTION	60 OF 107
C-81	WELL RELOCATION WELL DETAILS	61 OF 107
C-82	SITE PLAN	62 OF 107
C-83	ELECTRICAL ONE-LINE & SCHEMATICS	63 OF 107

EROSION CONTROL

EC-1	EROSION CONTROL NOTES AND LEGEND	64 OF 107
EC-2	NORTH BASIN EROSION CONTROL	65 OF 107
EC-3	NORTH BASIN EROSION CONTROL	66 OF 107
EC-4	SOUTH BASIN EROSION CONTROL	67 OF 107
EC-5	EROSION CONTROL BMP DETAILS	68 OF 107
EC-6	EROSION CONTROL DETAILS	69 OF 107
EC-7	EROSION CONTROL DETAILS	70 OF 107

STRUCTURAL

S-1	STRUCTURAL NOTES	71 OF 107
S-2	DIVERSION STRUCTURE SITE PLAN AND ELEVATION	72 OF 107
S-3	CONTROL STRUCTURE LOWER PLAN	73 OF 107
S-4	CONTROL STRUCTURE UPPER PLAN	74 OF 107
S-5	CONTROL STRUCTURE SECTIONS	75 OF 107
S-6	CONTROL STRUCTURE SECTIONS	76 OF 107
S-7	CONTROL STRUCTURE SECTIONS	77 OF 107
S-8	CONTROL STRUCTURE SECTIONS	78 OF 107
S-9	CONTROL STRUCTURE SECTIONS	79 OF 107
S-10	CONTROL STRUCTURE SECTIONS	80 OF 107
S-11	PERMANENTE CREEK OUTLET PLAN	81 OF 107
S-12	PERMANENTE CREEK OUTLET SECTIONS	82 OF 107
S-13	STILLING BASIN PLAN	83 OF 107
S-14	STILLING BASIN SECTIONS	84 OF 107
S-15	STILLING BASIN SECTIONS	85 OF 107
S-16	STILLING BASIN SECTIONS	86 OF 107
S-17	STANDARD DETAILS	87 OF 107
S-18	STANDARD DETAILS	88 OF 107

LANDSCAPING

L-01	KEY PLANS	89 OF 107
L-02	GRADING PLAN - NORTH BASIN BOTTOM	90 OF 107
L-03A	MITIGATION PLANTING PLAN SEASONAL WETLAND & RIPARIAN PLANTING PLANS	91 OF 107
L-03B	MITIGATION PLANTING PLAN SEASONAL WETLAND & RIPARIAN PLANTING PLANS	92 OF 107
L-04	PLANTING PLAN - NORTH BASIN	93 OF 107
L-05	PLANTING PLAN - SOUTH BASIN	94 OF 107
L-06	PLANTING PLAN - PARKING LOT	95 OF 107
L-07	TYPICAL PLANTING UNIT LAYOUTS - SEASONAL WETLAND & RIPARIAN AREA	96 OF 107
L-08A	IRRIGATION PLAN	97 OF 107
L-08B	IRRIGATION PLAN	98 OF 107
L-09	IRRIGATION PLAN - LEGEND NOTES	99 OF 107
L-10	FENCING & SIGNAGE PLAN - PARKING LOT	100 OF 107
L-11	IRRIGATION DETAILS	101 OF 107
L-12	IRRIGATION DETAILS	102 OF 107
L-13	IRRIGATION / PLANTING DETAILS	103 OF 107
L-14	MITIGATION PLANTING DETAILS	104 OF 107
L-15	MITIGATION PLANTING DETAILS	105 OF 107
L-16	MITIGATION PLANTING DETAILS	106 OF 107
L-17	FENCING & SIGNAGE DETAILS	107 OF 107

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△	ADDENDUM NO. 3	8/16	TKS	



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DATE: JUNE 2016
 DESIGN: Y LIAO
 DRAWN: K MEYER
 CHECKED: G RITTER
 PROJECT ENGINEER DATE: 8/1/16

ENGINEERING CERTIFICATION

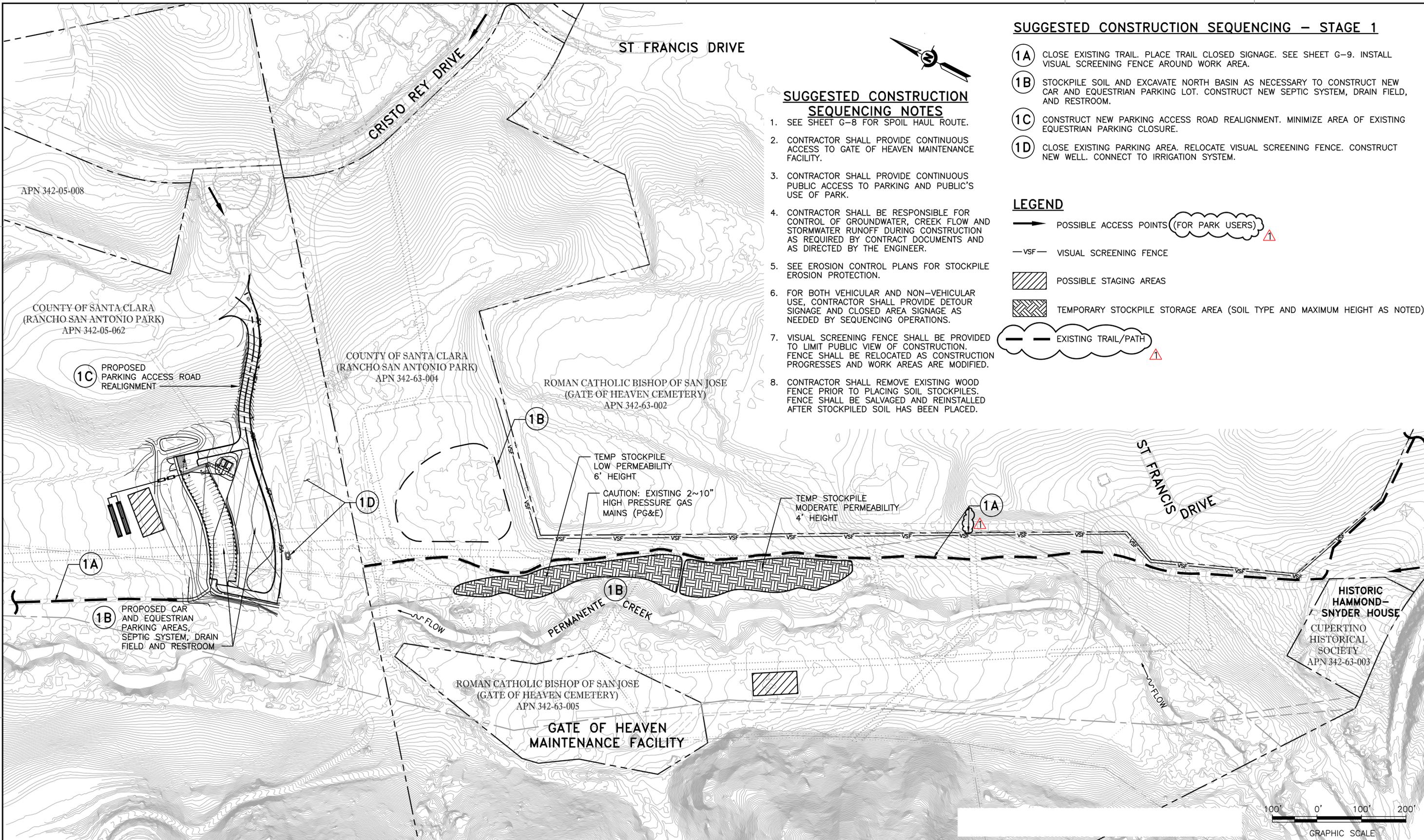
 Santa Clara Valley Water District
 ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
**PERMANENTE CREEK
 FLOOD PROTECTION PROJECT**
 RANCHO SAN ANTONIO
 DRAWING LIST

SCALE: NO SCALE
 PROJECT NUMBER: 26244001
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SUGGESTED CONSTRUCTION SEQUENCING NOTES

1. SEE SHEET G-8 FOR SPOIL HAUL ROUTE.
2. CONTRACTOR SHALL PROVIDE CONTINUOUS ACCESS TO GATE OF HEAVEN MAINTENANCE FACILITY.
3. CONTRACTOR SHALL PROVIDE CONTINUOUS PUBLIC ACCESS TO PARKING AND PUBLIC'S USE OF PARK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF GROUNDWATER, CREEK FLOW AND STORMWATER RUNOFF DURING CONSTRUCTION AS REQUIRED BY CONTRACT DOCUMENTS AND AS DIRECTED BY THE ENGINEER.
5. SEE EROSION CONTROL PLANS FOR STOCKPILE EROSION PROTECTION.
6. FOR BOTH VEHICULAR AND NON-VEHICULAR USE, CONTRACTOR SHALL PROVIDE DETOUR SIGNAGE AND CLOSED AREA SIGNAGE AS NEEDED BY SEQUENCING OPERATIONS.
7. VISUAL SCREENING FENCE SHALL BE PROVIDED TO LIMIT PUBLIC VIEW OF CONSTRUCTION. FENCE SHALL BE RELOCATED AS CONSTRUCTION PROGRESSES AND WORK AREAS ARE MODIFIED.
8. CONTRACTOR SHALL REMOVE EXISTING WOOD FENCE PRIOR TO PLACING SOIL STOCKPILES. FENCE SHALL BE SALVAGED AND REINSTALLED AFTER STOCKPILED SOIL HAS BEEN PLACED.

SUGGESTED CONSTRUCTION SEQUENCING - STAGE 1

- 1A CLOSE EXISTING TRAIL. PLACE TRAIL CLOSED SIGNAGE. SEE SHEET G-9. INSTALL VISUAL SCREENING FENCE AROUND WORK AREA.
- 1B STOCKPILE SOIL AND EXCAVATE NORTH BASIN AS NECESSARY TO CONSTRUCT NEW CAR AND EQUESTRIAN PARKING LOT. CONSTRUCT NEW SEPTIC SYSTEM, DRAIN FIELD, AND RESTROOM.
- 1C CONSTRUCT NEW PARKING ACCESS ROAD REALIGNMENT. MINIMIZE AREA OF EXISTING EQUESTRIAN PARKING CLOSURE.
- 1D CLOSE EXISTING PARKING AREA. RELOCATE VISUAL SCREENING FENCE. CONSTRUCT NEW WELL. CONNECT TO IRRIGATION SYSTEM.

LEGEND

- ➔ POSSIBLE ACCESS POINTS (FOR PARK USERS) ⚠
- VSF- VISUAL SCREENING FENCE
- [Hatched Box] POSSIBLE STAGING AREAS
- [Cross-hatched Box] TEMPORARY STOCKPILE STORAGE AREA (SOIL TYPE AND MAXIMUM HEIGHT AS NOTED)
- - - EXISTING TRAIL/PATH ⚠

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 T 408.572.8000
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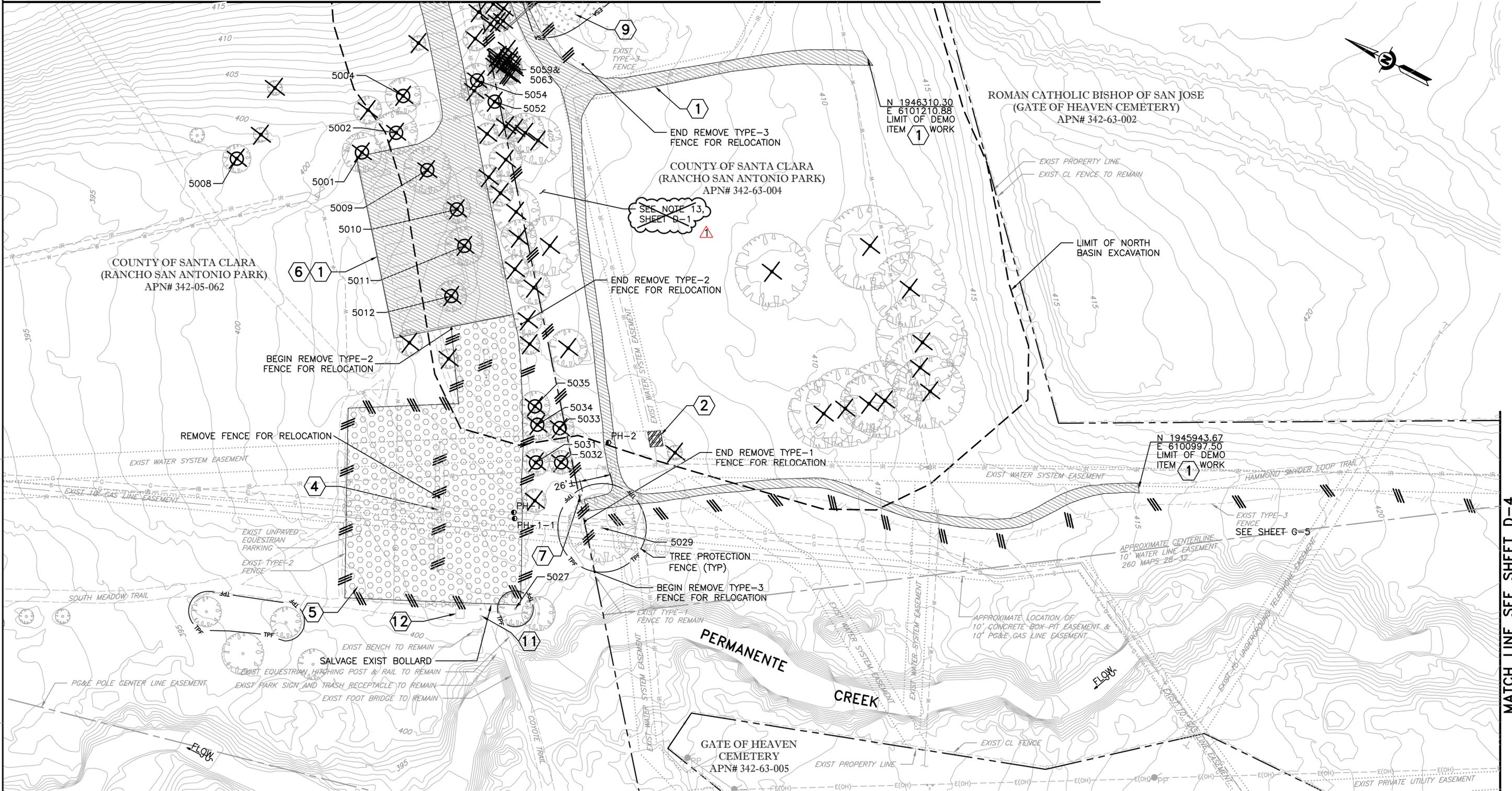
DATE: JUNE 2016
 DESIGN: Y LIAO
 DRAWN: K MEYER
 CHECKED: G RITTER
 PROJECT ENGINEER DATE: 8/1/16

Santa Clara Valley Water District
 ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
 RANCHO SAN ANTONIO
 PROPOSED STAGING AREAS AND CONSTRUCTION SEQUENCING PLAN - STAGE 1

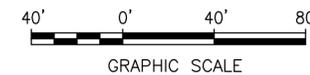
SCALE: 1" = 100'
 PROJECT NUMBER: 26244001
 SHEET CODE: G-5 ⚠
 SHEET NUMBER: OF

MATCH LINE SEE SHEET D-2



NOTES

1. FOR LEGEND AND NOTES, SEE SHEET D-1.
2. FOR TREE PROTECTION SCHEDULE AND REGULATED TREE REMOVAL SCHEDULE, SEE SHEET D-1.
3. FOR FENCE REMOVAL SCHEDULE, SEE SHEET D-1.
4. FOR ADDITIONAL EXCLUSION AND PROTECTION FENCING, SEE EROSION CONTROL SHEETS.



DOCUMENT NUMBER: XXXX-X-0000-00000000.00

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
1	ADDENDUM NO. 3	8/16	TKS	

Hatch Mott MacDonald
 181 Metro Drive, Ste. 510
 San Jose, CA 95110
 T: 408.572.8800
 www.hatchmott.com

DATE: JUNE 2016
 DESIGN: Y LIAO
 DRAWN: K MEYER
 CHECKED: G RITTER
 PROJECT ENGINEER DATE: 8/1/16

ENGINEERING CERTIFICATION

Santa Clara Valley Water District
 ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
**PERMANENTE CREEK
 FLOOD PROTECTION PROJECT**
 RANCHO SAN ANTONIO
 EXISTING TOPO AND DEMOLITION PLAN
 NORTH BASIN

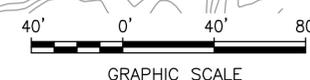
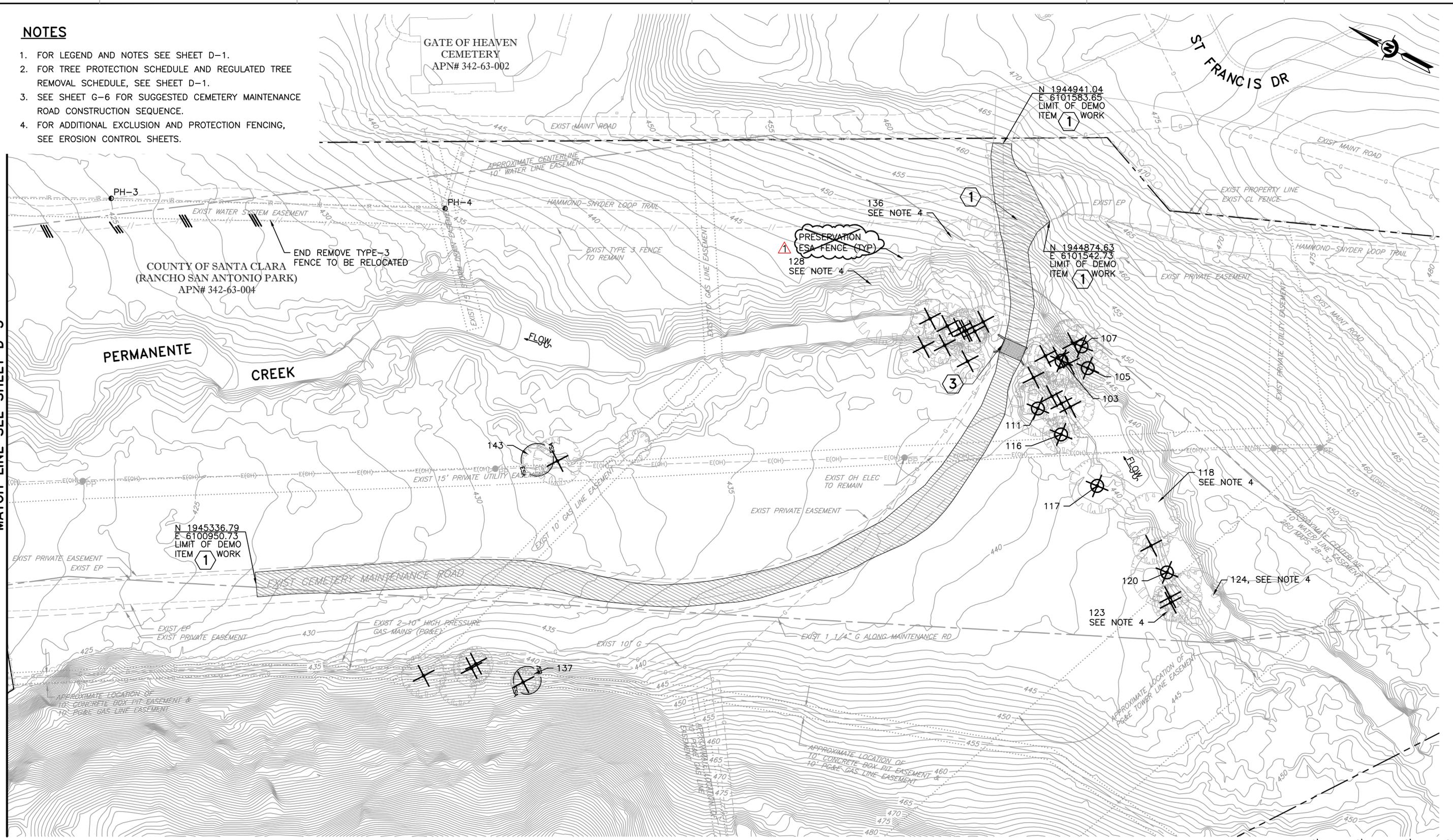
SCALE: 1" = 40'
 VERIFY SCALES: 0 1"
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: **26244001**
 SHEET CODE: **D-3**
 SHEET NUMBER: OF

NOTES

1. FOR LEGEND AND NOTES SEE SHEET D-1.
2. FOR TREE PROTECTION SCHEDULE AND REGULATED TREE REMOVAL SCHEDULE, SEE SHEET D-1.
3. SEE SHEET G-6 FOR SUGGESTED CEMETERY MAINTENANCE ROAD CONSTRUCTION SEQUENCE.
4. FOR ADDITIONAL EXCLUSION AND PROTECTION FENCING, SEE EROSION CONTROL SHEETS.

MATCH LINE SEE SHEET D-3



DOCUMENT NUMBER: XXXX-X-0000-00000000.00

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
1	ADDENDUM NO. 3	8/16	TKS	

Hatch Mott MacDonald
 181 Metro Drive, Ste. 510
 San Jose, CA 95110
 T: 408.572.2000
 www.hatchmott.com

DATE: JUNE 2016
 DESIGN: Y LIAO
 DRAWN: K MEYER
 CHECKED: G RITTER
 PROJECT ENGINEER: DATE: 8/1/16

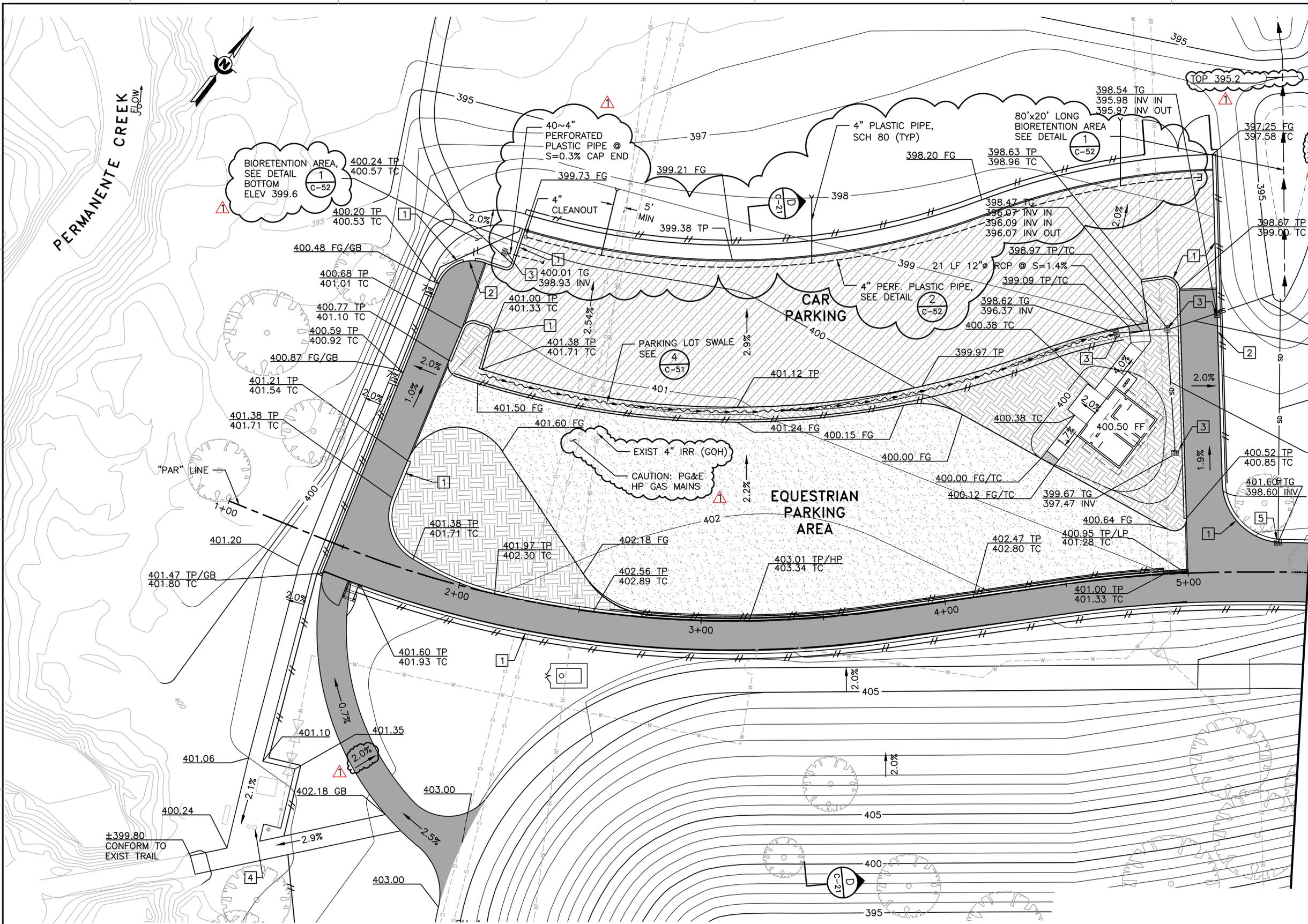
Santa Clara Valley Water District
 ACCEPTED BY DISTRICT
 PROJECT ENGINEER: DATE:

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
 RANCHO SAN ANTONIO
 EXISTING TOPO AND DEMOLITION PLAN
 SOUTH BASIN

SCALE: 1" = 40'
 VERIFY SCALES: 0 1"
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: **26244001**
 SHEET CODE: **D-4**
 SHEET NUMBER: OF

DOCUMENT NUMBER: XXXX-X-0000-00000000.00
 USERNAME: KIR71686 Men 1 Aug 2016 14:53
 FILENAME: C:\pwworking\hmm\external\kir71686\msa24078\C-13



LEGEND

- POROUS AC PAVEMENT (2) C-52
- AGGREGATE BASE
- SOIL/LANDSCAPE
- STABILIZED AGGREGATE PAVING (3) C-33
- AC PAVEMENT
- DRAINAGE SWALE
- DIRECTION OF FLOW

22 LF 12" CMP @ S=0.5%
 19 LF 12" RCP @ S=0.5%

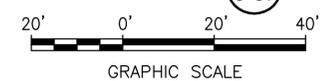
98 LF 12" CMP @ S=2.8%
 PROVIDE RIP RAP FOR EROSION CONTROL AT PIPE OUTLET. SEE SHEET C-50 FOR DIMENSIONS OF ROCK SLOPE PROTECTION.

51 LF 12" CMP @ S=2.7%

- NOTES**
- SEE SHEET C-2 FOR PARKING ACCESS ROAD PLAN AND PROFILE.
 - SEE SHEET C-30 FOR PARKING LOT AND ACCESS ROAD STRIPING LAYOUT.
 - SEE LANDSCAPE DWGS FOR SIGNAGE AND FENCING LOCATIONS.

PROJECT NOTES (SHEETS C-13 & C-14):

- CONSTRUCT TYPE E ASPHALT CONCRETE DIKE PER CALTRANS STANDARD PLAN A87B.
- CONSTRUCT ASPHALT CONCRETE OVERSIDE DRAIN PER CALTRANS STANDARD PLAN D87D. REDUCE DEPTH OF 8" TO 4" FOR SECTION C-C.
- INSTALL TYPE G1 DROP INLET PER THE COUNTY OF SANTA CLARA STANDARD DETAIL C-2. SEE DETAIL (2) C-53
- ADJUST EXISTING DRINKING FOUNTAIN TO BE FLUSH WITH FINISHED GRADE.
- INSTALL TYPE C-4 WITH GALLERY DRAINAGE INLET PER COUNTY OF SANTA CLARA STANDARD DETAIL C-5. SEE DETAIL (1) C-54



REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
1	ADDENDUM NO. 3	8/16	TKS	

Hatch Mott MacDonald
 181 Metro Drive, Ste. 510
 San Jose, CA 95110
 T 408.572.8800
 www.hatchmott.com

DATE: JUNE 2016
 DESIGN: L TRUJILLO
 DRAWN: C LEE
 CHECKED: J ELLIS
 PROJECT ENGINEER DATE

Santa Clara Valley Water District

REGISTERED PROFESSIONAL ENGINEER
 TRACIE K SARANTINAKA
 C37141
 CIVIL
 STATE OF CALIFORNIA
 8/1/16

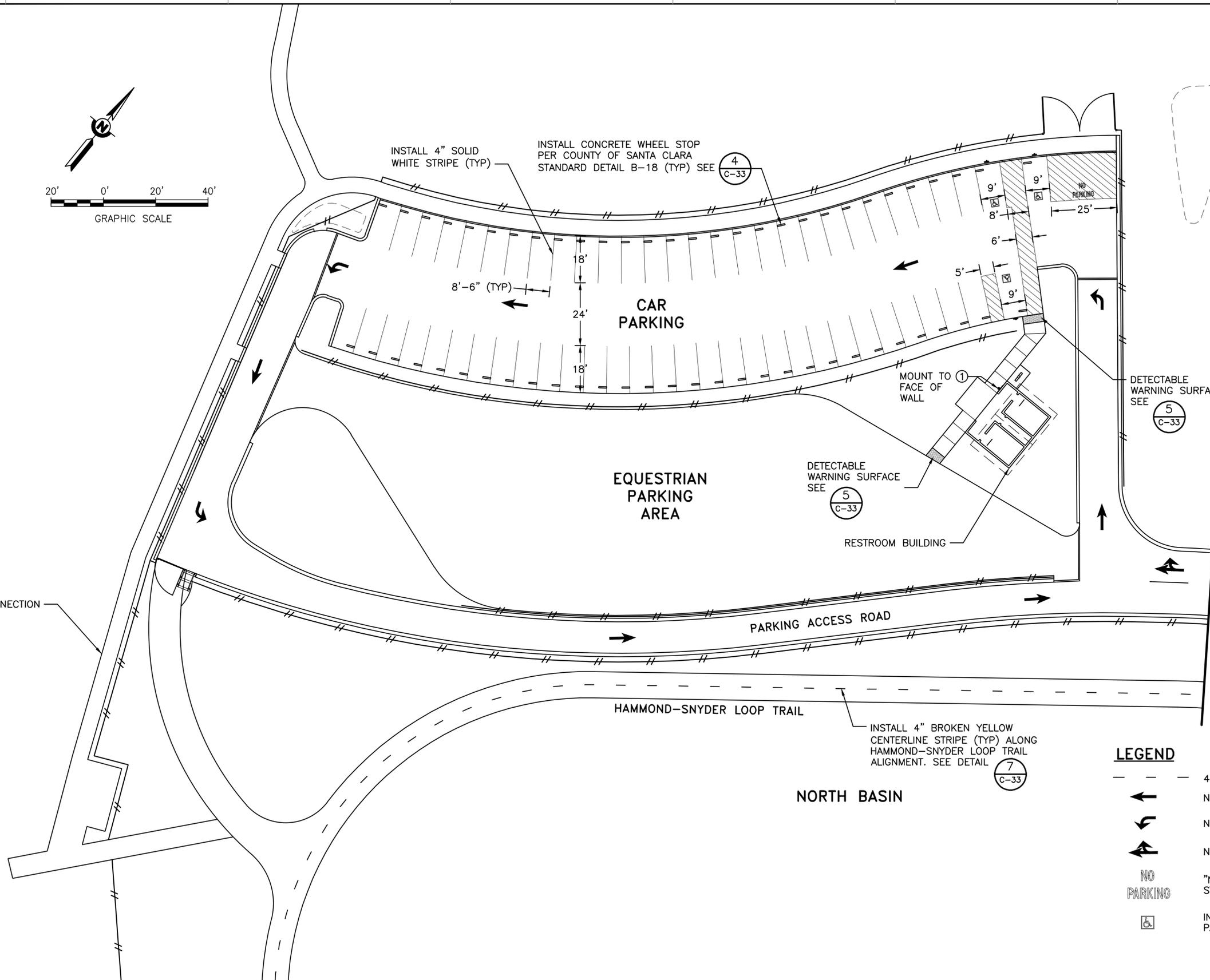
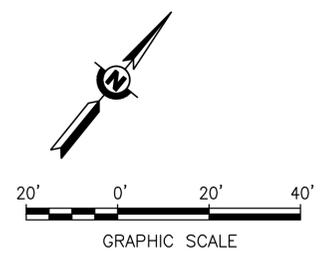
ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
 RANCHO SAN ANTONIO PARKING LOT PAVING, GRADING AND DRAINAGE PLAN

SCALE: 1" = 20'
 PROJECT NUMBER: 26244001
 SHEET CODE: C-13
 SHEET NUMBER: OF

SIGN LEGEND (THIS SHEET)

IF LIGHT IS FLASHING
PLEASE CALL:
FOOTHILLS FIELD OFFICE
650-691-2165
OR
24-HR DISPATCH
650-903-6395



MATCH LINE SEE SHEET C-31

NOTES

1. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CALTRANS STANDARD SPECIFICATIONS AND STANDARD PLANS AND THE CURRENT CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. SEE LANDSCAPE DRAWINGS FOR SIGNAGE AND FENCING LOCATIONS.
3. SEE SHEET C-13 FOR PARKING LOT PAVING, GRADING AND DRAINAGE.
4. SEE SHEET C-21 FOR PARKING LOT TYPICAL SECTION.
5. SEE SHEET C-32 FOR SIGNAGE AT CEMETERY MAINTENANCE ROAD.

LEGEND

- 4" BROKEN YELLOW TRAIL CENTERLINE STRIPE
- NEW TYPE I 10' ARROW (PER CALTRANS STANDARD DETAIL A24A)
- NEW TYPE IV (L) ARROW (PER CALTRANS STANDARD DETAIL A24A)
- NEW TYPE VII (R) ARROW (PER CALTRANS STANDARD DETAIL A24A)
- "NO PARKING" MARKING PER CALTRANS STANDARD DETAIL A24E
- INTERNATIONAL SYMBOL OF ACCESSIBILITY PAVEMENT MARKING

C:\pwworking\hmm\external\kir71686\dms24078\C-30

DOCUMENT NUMBER: XXXX-X-0000-00000000.00

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
1	ADDENDUM NO. 3	8/16	TKS	

Hatch Mott MacDonald
181 Metro Drive, Ste. 510
San Jose, CA 95110
T: 408.572.8800
www.hatchmott.com

DATE: JUNE 2016
DESIGN: Y LIAO
DRAWN: K MEYER
CHECKED: G RITTER
PROJECT ENGINEER: DATE

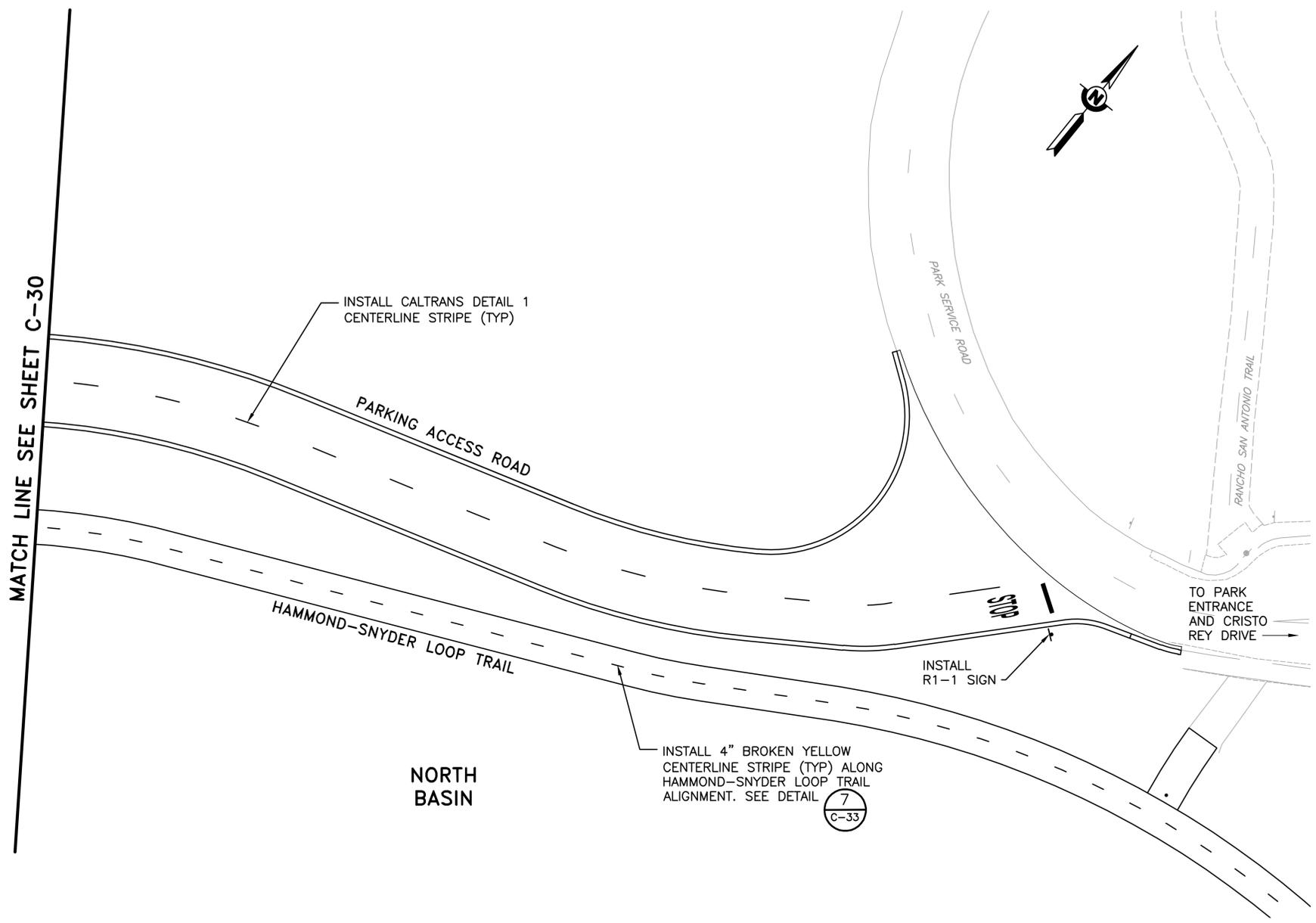
Santa Clara Valley Water District
ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO
PARKING LOT AND ACCESS ROAD
STRIPING PLAN

SCALE: 1" = 20'
VERIFY SCALES: 0 1"
PROJECT NUMBER: **26244001**
SHEET CODE: **C-30**
SHEET NUMBER: OF

USERNAME: KIR71686 Men 1 Aug 2016 14:30
 FILENAME: C:\pwworking\hmm\external\kir71686\dms24078\C-31

DOCUMENT NUMBER: XXXX-X-0000-00000000.00



LEGEND

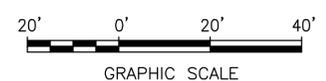
- — — — — CALTRANS DETAIL 1 CENTERLINE STRIPE
- 12" WHITE LIMIT LINE
- - - - - 4" BROKEN YELLOW TRAIL CENTERLINE STRIPE
- STOP "STOP" PAVEMENT LEGEND
PER CALTRANS STANDARD DETAIL A24D

SIGN LEGEND (THIS SHEET)



NOTES

1. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CALTRANS STANDARD SPECIFICATIONS AND STANDARD PLANS AND THE CURRENT CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. SEE LANDSCAPE DRAWINGS FOR SIGNAGE AND FENCING LOCATIONS.
3. SEE SHEET C-14 FOR ACCESS ROAD PAVING, GRADING AND DRAINAGE.
4. SEE SHEET C-23 FOR ACCESS ROAD TYPICAL SECTION.



REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
△	ADDENDUM NO. 3	8/16	TKS	

Hatch Mott MacDonald
 181 Metro Drive, Ste. 510
 San Jose, CA 95110
 T: 408.572.8800
 www.hatchmott.com

DATE: JUNE 2016
 DESIGN: Y LIAO
 DRAWN: K MEYER
 CHECKED: G RITTER
 PROJECT ENGINEER DATE: 8/1/16

ENGINEERING CERTIFICATION
 REGISTERED PROFESSIONAL ENGINEER
 TRACIE K SAKAMURA
 C37141
 CIVIL
 STATE OF CALIFORNIA

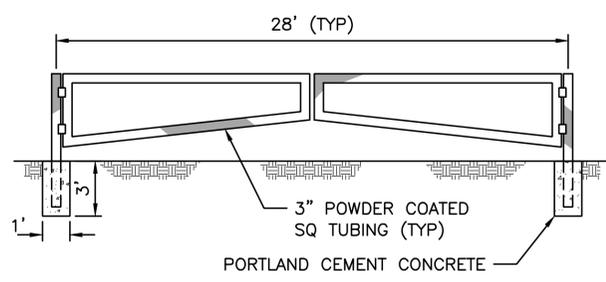
Santa Clara Valley Water District
 ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
**PERMANENTE CREEK
 FLOOD PROTECTION PROJECT**
 RANCHO SAN ANTONIO
 PARKING LOT ACCESS ROAD
 SIGNING AND STRIPING PLAN

SCALE: 1" = 20'
 VERIFY SCALES: 0 1"
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

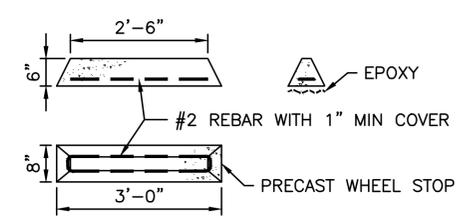
PROJECT NUMBER: **26244001**
 SHEET CODE: **C-31** △
 SHEET NUMBER: OF

USERNAME: KIR71686 Mon 1 Aug 2016 14:38
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 DOCUMENT NUMBER: XXXX-X-0000-00000000.00

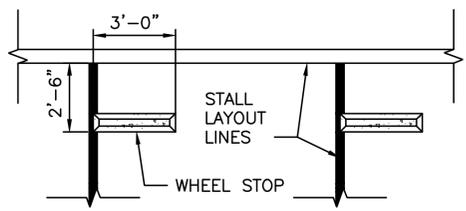


NOTE: GATE MANUFACTURER TO PROVIDE SPECS AND DETAILED DRAWINGS TO BE APPROVED BY COUNTY.

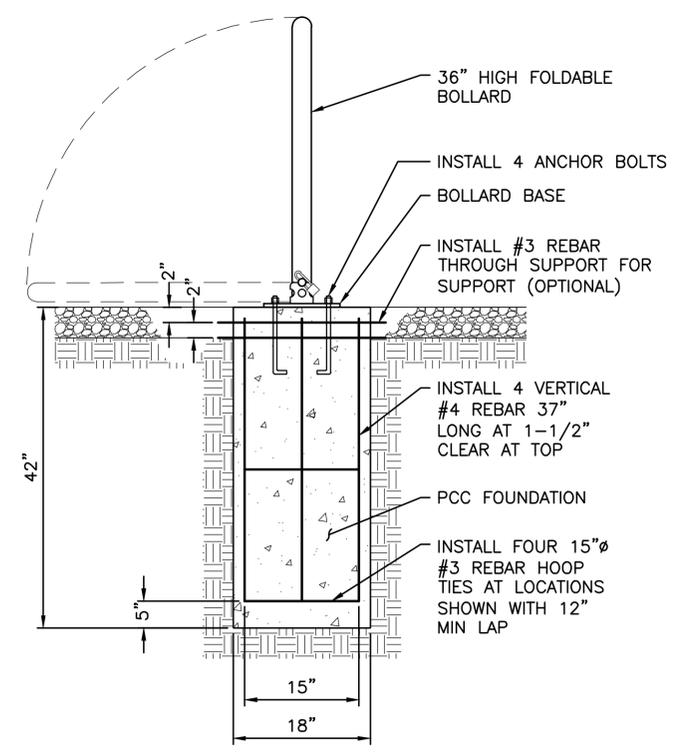
DETAIL 1
C-1
TYPICAL LOCKING GATE
SCALE: NTS



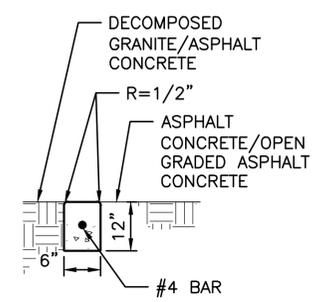
DETAIL 4
C-30
WHEEL STOP
SCALE: NTS



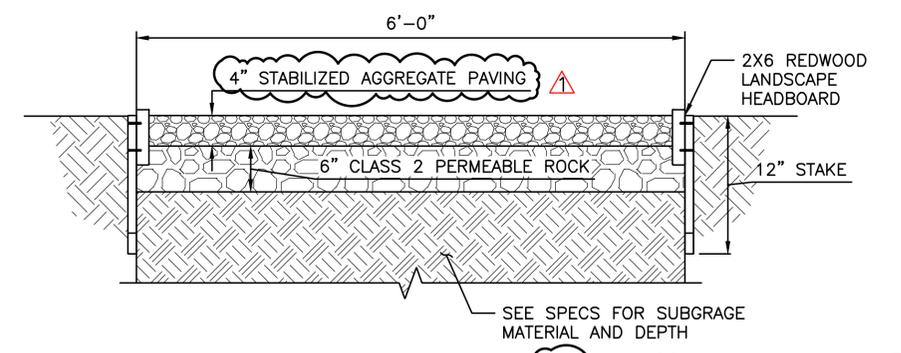
DETAIL 7
C-30
4\"/>



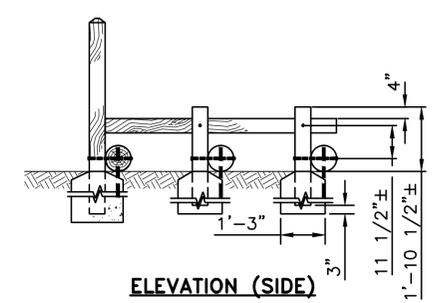
DETAIL 2
C-2
FOLDABLE BOLLARD
SCALE: NTS



DETAIL 8
C-1
FLUSH CURB
SCALE: NTS

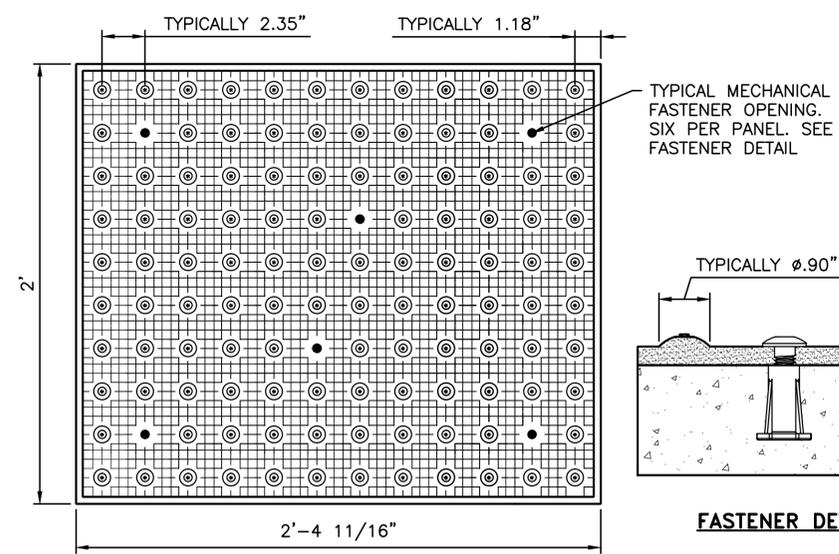


DETAIL 3
C-13
TRAIL CONNECTION (STABILIZED AGGREGATE PAVING)
SCALE: 1\"/>

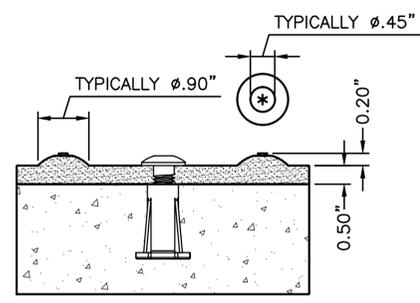


ELEVATION (SIDE)

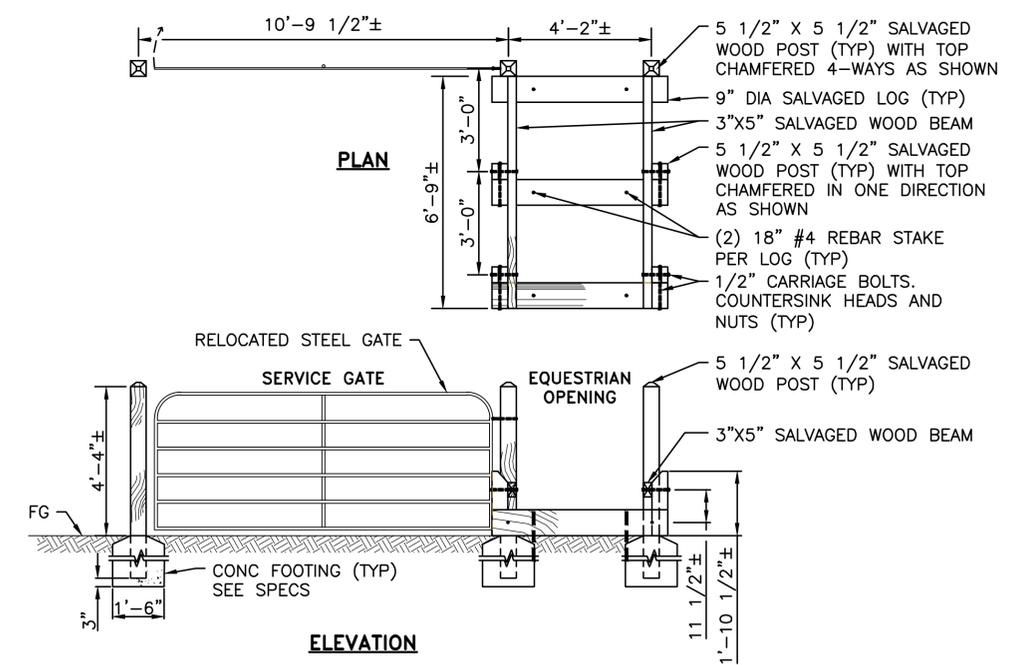
- NOTES**
- WHERE INDIVIDUAL WOOD PIECES CANNOT BE SALVAGED, REPLACE WITH NEW WOOD PIECES TO MATCH
 - DIMENSIONS ARE BASED ON FIELD MEASUREMENTS OF EXISTING GATES. MAKE MINOR ADJUSTMENTS IF REQUIRED.



DETAIL 5
C-30
DETECTABLE WARNING SURFACE
SCALE: NTS



FASTENER DETAIL



DETAIL 6
C-1
FARM GATE AND EQUESTRIAN OPENING
SCALE: NTS

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
1	ADDENDUM NO. 3	8/16	TKS	

Hatch Mott MacDonald
181 Metro Drive, Ste. 510
San Jose, CA 95110
T: 408.572.8800
www.hatchmott.com

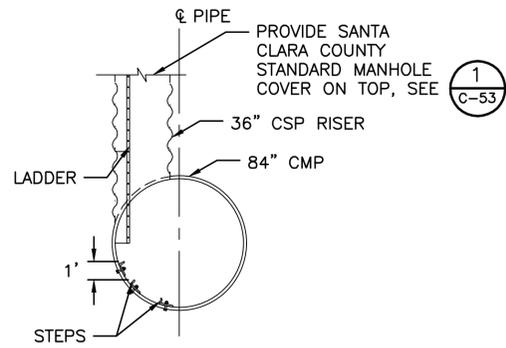
DATE: JUNE 2016
DESIGN: Y LIAO
DRAWN: K MEYER
CHECKED: G RITTER
PROJECT ENGINEER DATE

Santa Clara Valley Water District
ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO PARKING LOT DETAILS

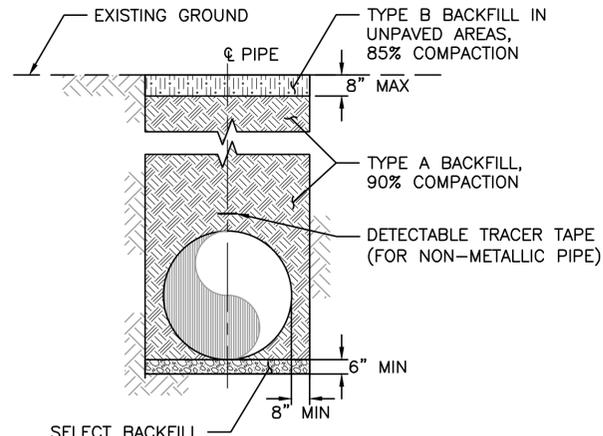
SCALE: AS SHOWN
PROJECT NUMBER: 26244001
SHEET CODE: C-33
SHEET NUMBER: OF

USERNAME: KIR71686 Mon 1 Aug 2016 15:26
 FILENAME: C:\pwworking\hmm\external\kir71686\dms24078\C-51
 DOCUMENT NUMBER: XXXX-X-0000-00000000.00

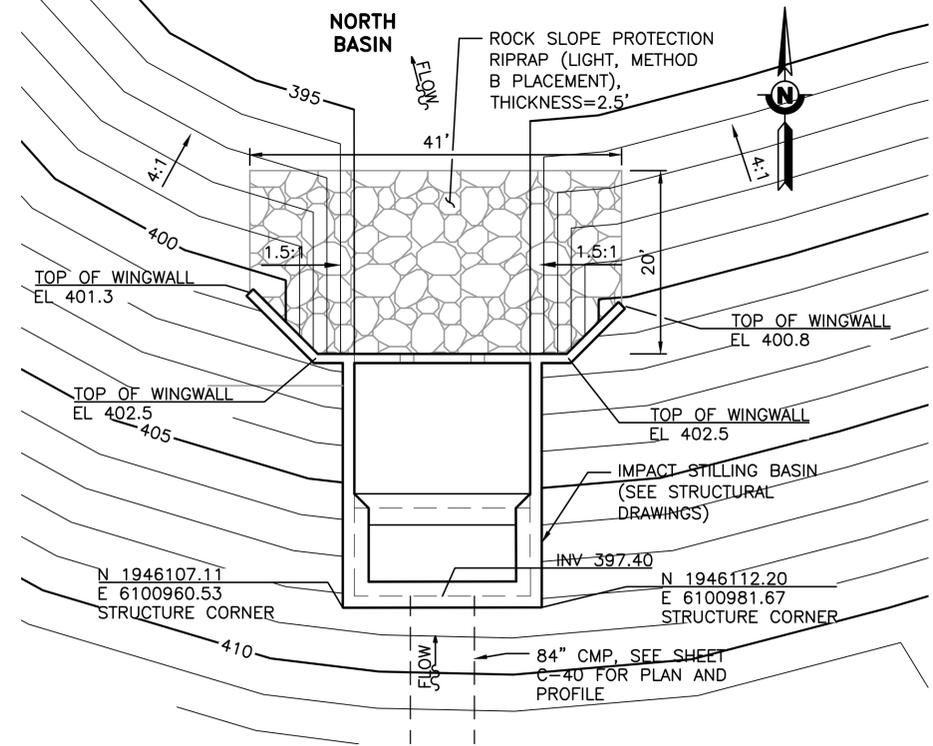


NOTE: SEE CALTRANS STANDARD PLAN D93A.

DETAIL 1 84" CMP WITH 36" CSP RISER
 SCALE: NTS

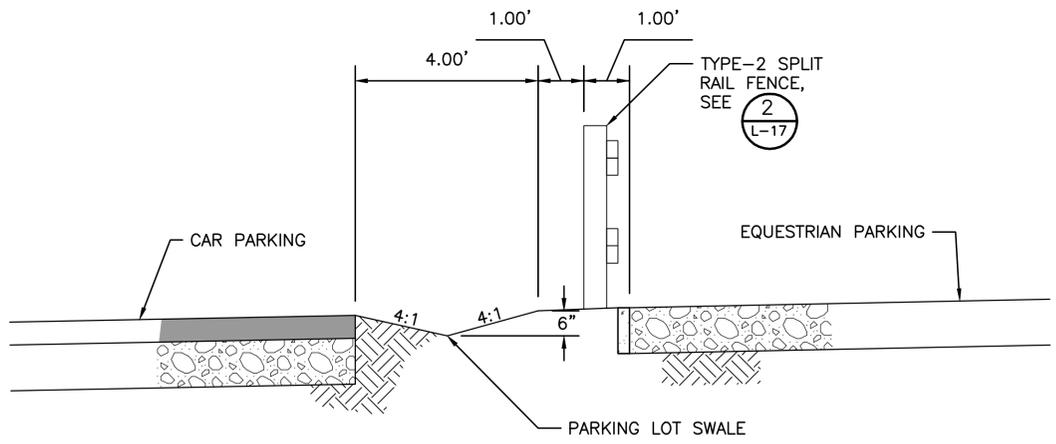


DETAIL 2 TYPICAL TRENCH BACKFILL
 SCALE: NTS



DETAIL 3 IMPACT STILLING BASIN GRADING PLAN
 SCALE: NTS

NOTE
 1. SEE SHEET S-13 FOR STILLING BASIN AND WINGWALL DIMENSIONS AND LAYOUT INFORMATION.



DETAIL 4 PARKING LOT SWALE
 SCALE: NTS

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
△	ADDENDUM NO. 3	8/16	TKS	

Hatch Mott MacDonald
 181 Metro Drive, Ste. 510
 San Jose, CA 95110
 T: 408.572.8800
 www.hatchmott.com

DATE: JUNE 2016
 DESIGN: Y LIAO
 DRAWN: K MEYER
 CHECKED: T GRAU
 PROJECT ENGINEER DATE: 8/1/16

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
 RANCHO SAN ANTONIO DRAINAGE DETAILS

SCALE: NO SCALE
 PROJECT NUMBER: 26244001
 SHEET CODE: C-51
 SHEET NUMBER: OF

LEGEND

- (N) CONTRACTOR TO INSTALL (1) 4" PVC PRIMARY CONDUIT PER PG&E REQUIREMENTS.
- (N) CONTRACTOR TO INSTALL (1) 3" PVC SERVICE CONDUIT PER PG&E REQUIREMENTS.
- (N) CONTRACTOR TO INSTALL ELECTRICAL CONDUITS AS REFERENCED ON SHEET C-75.
- 2 (N) CONTRACTOR TO INSTALL 17"x30"x26" INCIDENTAL VEHICULAR TRAFFIC SERVICE ENCLOSURE PER PG&E REQUIREMENTS.
- 7 (E) PG&E 4'6"x8'6"x6' INCIDENTAL VEHICULAR TRAFFIC ENCLOSURE
- ▲ (N) CONTRACTOR TO INSTALL 50"x52" DF-LB BOX PAD FOR PADMOUNT TRANSFORMER PER PG&E REQUIREMENTS.
- ☒ (N) METERING CABINET PER PG&E REQUIREMENTS.
- (E) EXISTING
- (N) NEW

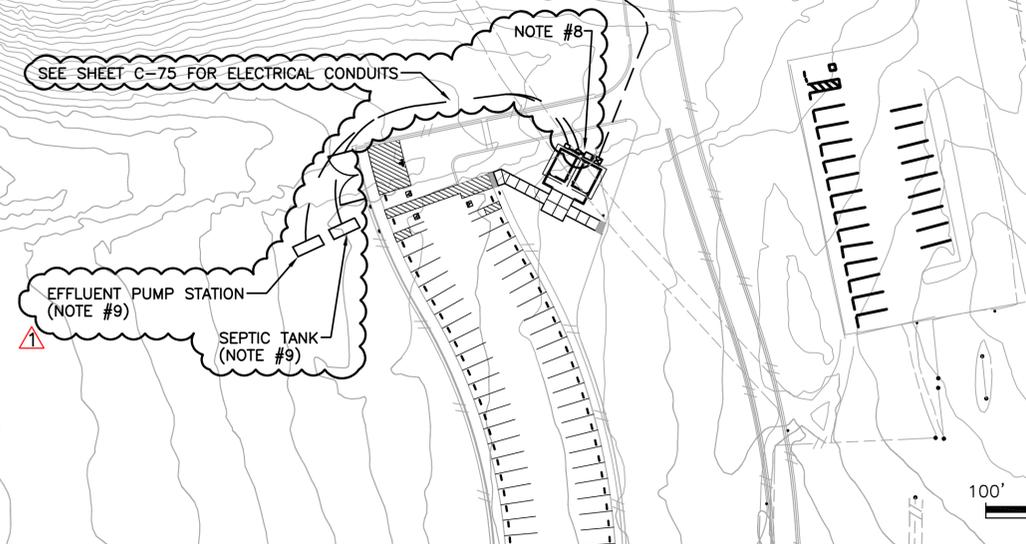
NOTES:

1. SEE PG&E DRAWING 31067344 FOR ADDITIONAL DETAILS.
2. CONTRACTOR TO TRENCH ELECTRIC ONLY.
3. CONTRACTOR IS TO PROVIDE ALL ELECTRIC SUBSTRUCTURES AS SHOWN.
4. CONTRACTOR IS TO PROVIDE MANDREL AND PERFORM MANDREL TEST WITH PG&E INSPECTOR STANDBY.
5. CONTRACTOR IS RESPONSIBLE TO ENSURE TRENCHING AND SUBSTRUCTURE INSTALLATION MEET PG&E GREENBOOK STANDARDS.
6. CONTRACTOR SHALL INSTALL A 1/2 INCH CONDUIT AND PULL TAPE FROM THE METER PANEL LOCATION TO THE NEAREST TELEPHONE SERVICE LOCATION (SEE PG&E GREENBOOK).
7. CONTRACTOR SHALL COORDINATE WITH PG&E FOR EXACT XFMR PAD AND BOX PLACEMENT LOCATION.
8. SEE SHEET C-74 FOR ELEVATION OF PANELS
9. SEE SHEET C-72 FOR DETAIL OF EFFLUENT PUMP STATION AND SEPTIC TANK, AND SEE SHEET C-75 FOR ELECTRICAL CONDUITS.

USERNAME: MIKE

DOCUMENT NUMBER: XXXX-X-0000-0000000.00

SITE PLAN
SCALE: 1" = 100'



REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
▲	ADDENDUM NO. 3	8/16	MFB	



DATE 7-29-16	ENGINEERING CERTIFICATION
DESIGN M BREGAR	
DRAWN K TOOFAN	
CHECKED M BREGAR	
DATE 6-22-16	

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
**PERMANENTE CREEK
 FLOOD PROTECTION PROJECT**
 RANCHO SAN ANTONIO
 RESTROOM BUILDING AND WASTEWATER SYSTEM
 SITE PLAN

SCALE 1" = 100'	PROJECT NUMBER 26244001
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-74 ▲
	PAGE NUMBER: RESTROOM OF

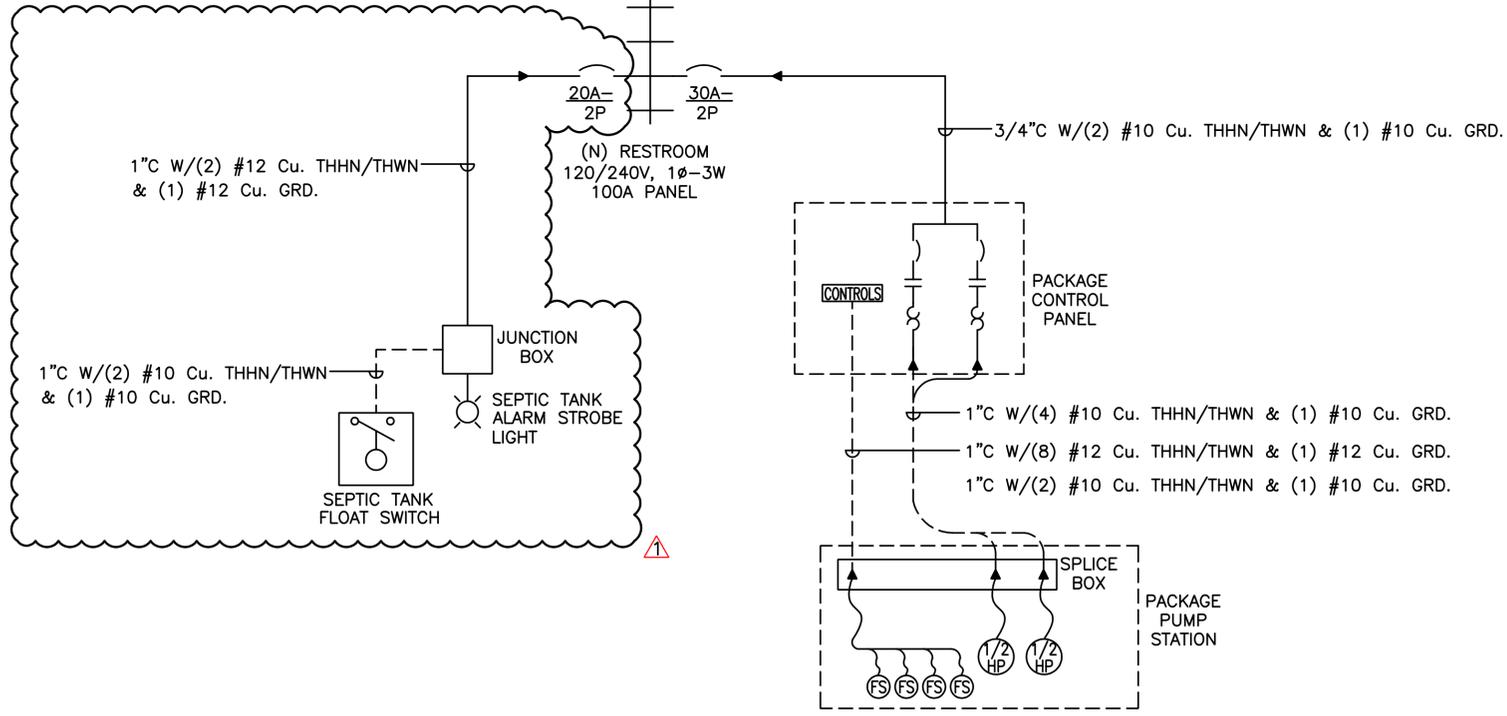
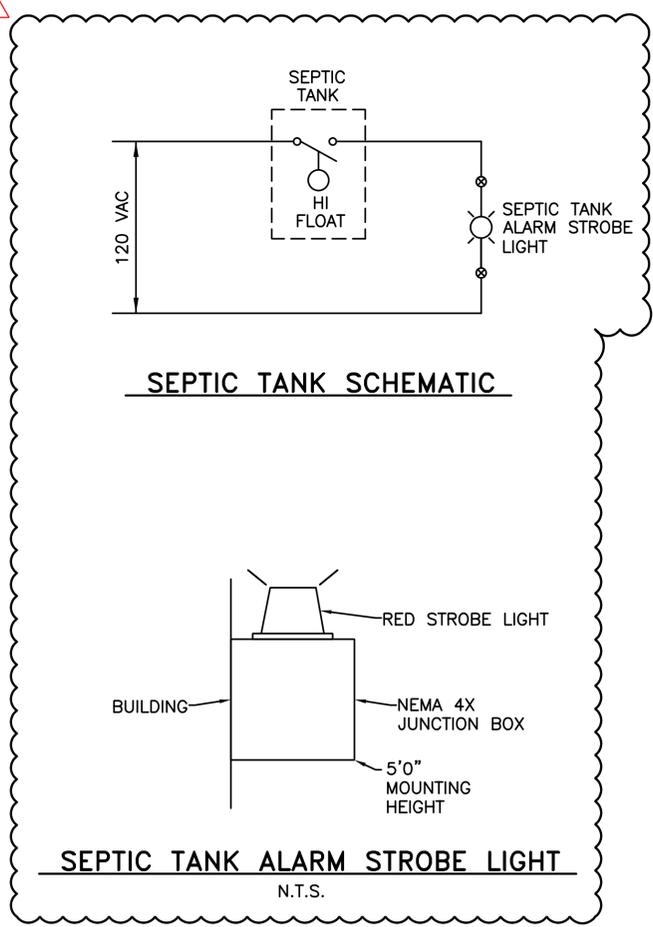
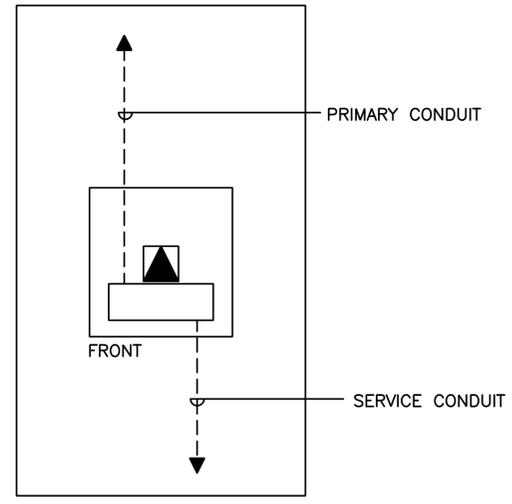
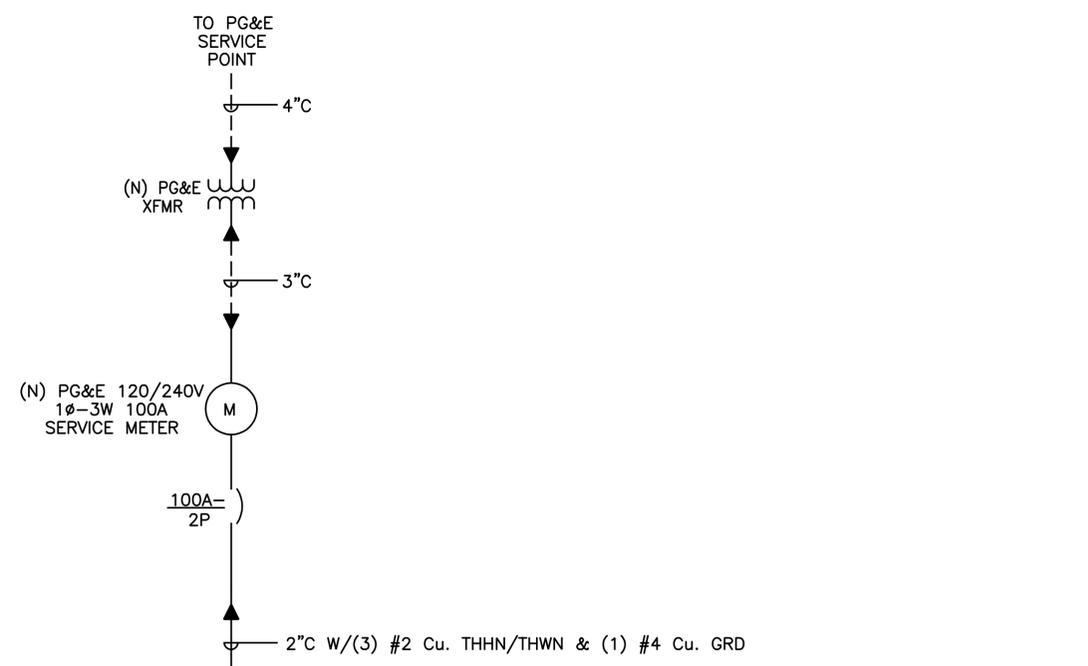
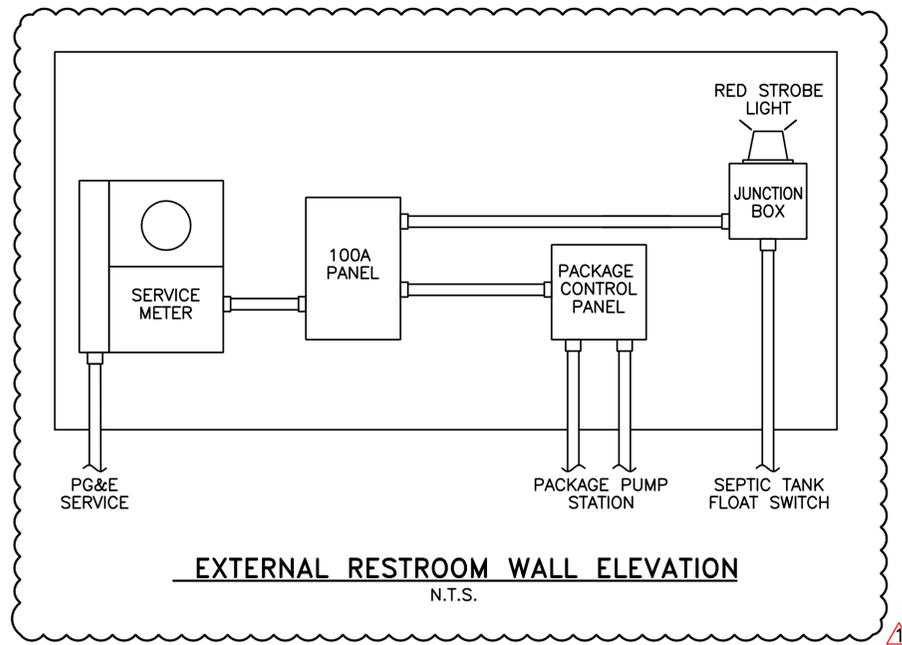
NOTES:

LOAD CALCULATIONS

RESTROOM LOADS
 (2) HAND DRYERS = (2) x 1150 WATTS = 2300 WATTS
 (1) RECEPTACLE - GENERAL PURPOSE = 720 WATTS
 (1) FLUORESCENT (42W) LIGHT = 50 WATTS
 + 25% DEMAND FACTOR 25 x 50 WATTS = 12.5 WATTS
 (1) RESTROOM STROBE LIGHT = 12 WATTS
 + 25% DEMAND FACTOR .25 x 12 WATTS = 3 WATTS
 (1) 1/2 HP PUMP = 1452 WATTS
 + 25% OF LARGEST MOTOR LOAD = .25 x 1452 = 363 WATTS
TOTAL RESTROOM LOAD = 4912.5 WATTS

IRRIGATION CONTROLLER LOAD = 240 WATTS

TOTAL LOAD ON NEW RESTROOM PANEL = 5152.5 WATTS
 = 21.5 AMPS @ 240V, 1 ϕ



ONE-LINE DIAGRAM
N.T.S.

NOTE:
 1. PLACE SIGN AND LIGHT ADJACENT. PRIOR TO INSTALLATION, CONFIRM ACCEPTABLE LOCATION WITH ENGINEER. SEE SHEET C-30 FOR REFERENCED SIGN.

DOCUMENT NUMBER: XXXX-X-0000-0000000.00

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
△	ADDENDUM NO. 3	8/16	MFB	

DATE 7-29-16	ENGINEERING CERTIFICATION
DESIGN M BREGAR	
DRAWN K TOOFAN	
CHECKED M BREGAR	6-22-16 DATE

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO RESTROOM BUILDING AND WASTEWATER SYSTEM ONE-LINE DIAGRAM, CALCULATIONS & DETAILS

SCALE
NO SCALE

VERIFY SCALES

 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER
26244001

SHEET CODE:
C-75

PAGE NUMBER:
OF

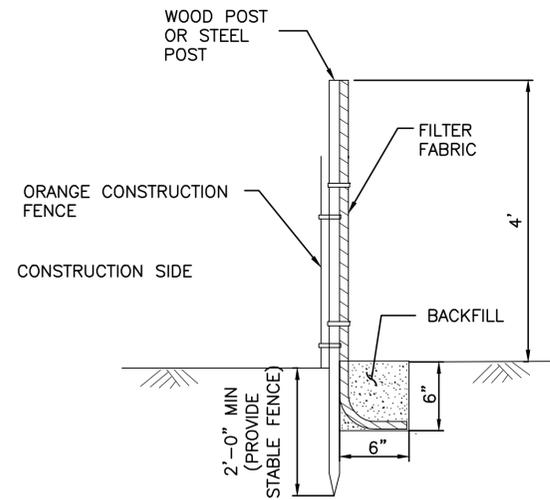
USERNAME: KIR71686 Men 1 Aug 2016 14:29
 FILENAME: C:\pwworking\hmm\external\kir71686\d0152977\EC-05

DOCUMENT NUMBER: XXXX-X-0000-00000000.00

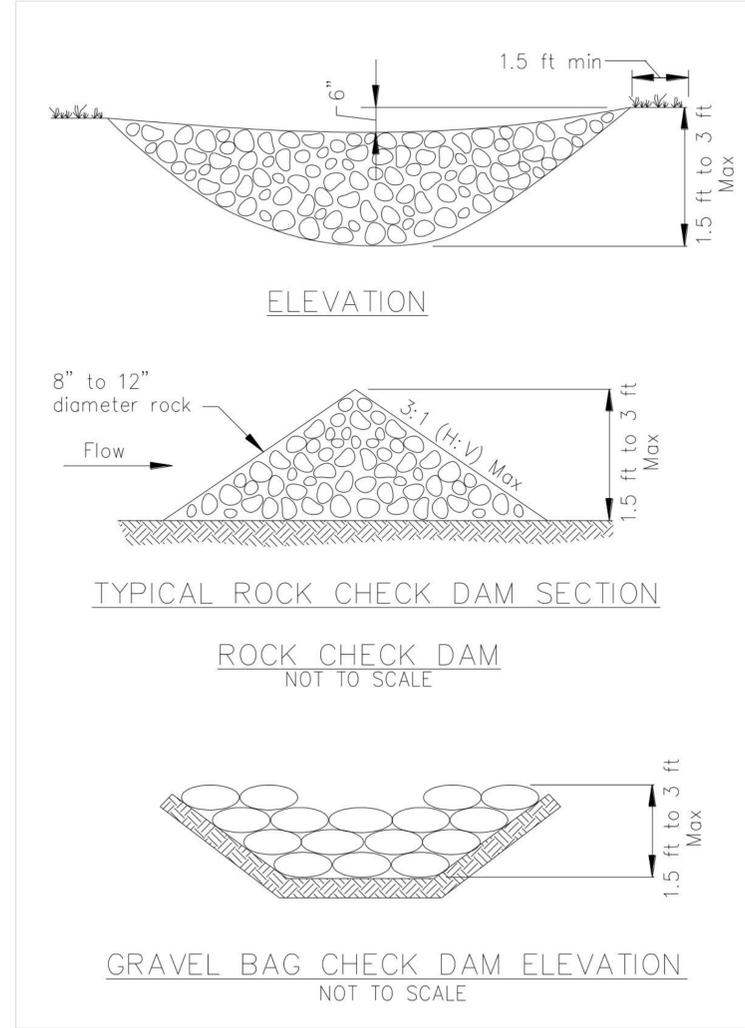


H,
 PER SHEET G-5

SECTION A SOIL STOCKPILE
 NO SCALE



DETAIL 3 TEMPORARY EXCLUSION FENCE (ANIMAL EXCLUSION)
 NO SCALE



DETAIL 2 CHECK DAMS
 EROSION CONTROL BMP
 NO SCALE

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
△	ADDENDUM NO. 3	8/16	TKS	

Hatch Mott MacDonald
 181 Metro Drive, Ste. 510
 San Jose, CA 95110
 T: 408.572.8800
 www.hatchmott.com

DATE: JUNE 2016
 DESIGN: Y LIAO
 DRAWN: K MEYER
 CHECKED: G RITTER
 PROJECT ENGINEER DATE

Santa Clara Valley Water District
 ACCEPTED BY DISTRICT
 PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO EROSION CONTROL BMP DETAILS

SCALE: AS SHOWN
 VERIFY SCALES: 0 1"
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: **26244001**
 SHEET CODE: **EC-5**
 SHEET NUMBER: OF



CAPITAL PROGRAM SERVICES
5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 630-3088
FACSIMILE (408) 979-5631
www.valleywater.org
scvwdplanroom@valleywater.org

*Notification of this Addendum is transmitted via email to all current plan holders.
This Addendum is posted on the District website at
www.valleywater.org/Programs/Construction.aspx.*

August 18, 2016

ADDENDUM NO. 4
TO CONTRACT DOCUMENTS FOR THE
PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN
Project No. 26244001; Contract No. C0617

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

BID DOCUMENTS

BID FORM NO. 1 Proposal Form and Bid Items

REPLACE BID FORM NO. 1 Proposal Form and Bid Items with BID FORM NO. 1 (REV 1) Proposal Form and Bid Items

SPECIFICATIONS AND CONTRACT DOCUMENTS

SPECIAL PROVISIONS

Section 17. PERMITS AND REGULATIONS

Article 17.02. Hours of Work

DELETE Paragraph D. in its entirety.

Section 18. ENVIRONMENTAL

Article 18.07.03. Cooperation with District's Biologist

ADD the following to Paragraph C., after the paragraph and bullet list for "Qualified Wildlife Biologist":

"Qualified Biological Monitor: A biological monitor is an individual who shall have academic and professional experience in biological sciences and related resource management activities as it pertains to this project, experience with construction-level biological monitoring, be able to recognize species that may be present within the project area, and be familiar with the habits and behavior of those species."

ADDENDUM NO. 4
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO DETENTION BASIN

Article 18.07.07. Vegetation Management for Nest Prevention

ADD Paragraph F. as follows:

- “F. Contractor will provide a biological survey prior to cutting or pruning of any trees on site. Cutting or pruning of any trees on site must be performed by a Contractor-provided ISA-certified arborist or by a Contractor-provided ICA-certified treeworker under direct supervision of an ISA-certified arborist and in accordance with these Specifications.”

TECHNICAL PROVISIONS

Section 22. PREPARATORY WORK

Article 22.08. Clearing and Grubbing—Bid Item No. 13

ADD Item a. to Paragraph B.1. as follows:

- “a. Contractor will provide a biological survey prior to cutting or pruning of any trees on site. Cutting or pruning of any trees on site must be performed by a Contractor-provided ISA-certified arborist or by a Contractor-provided ICA-certified treeworker under direct supervision of an ISA-certified arborist and in accordance with these Specifications.”

Article 22.09.01. Remove Tree—Bid Item No. 14

ADD Item 6 to Paragraph B. as follows:

- “6. Contractor will provide a biological survey prior to cutting or pruning of any trees on site. Cutting or pruning of any trees on site must be performed by a Contractor-provided ISA-certified arborist or by a Contractor-provided ICA-certified treeworker under direct supervision of an ISA-certified arborist and in accordance with these Specifications.”

Article 22.10. Temporary Cemetery Maintenance Access Road—Bid Item No. 26

ADD Item 5. to Paragraph B. as follows:

- “5. Temporary Cemetery Maintenance Road shall be constructed of an all-weather surface capable of withstanding H-20 loading conditions. Contractor shall be responsible for design, construction, dust control, maintenance, and removal of this road, as required by these specifications. Refer to Article 12.05. regarding Contractor responsibility for design.”

REPLACE Paragraph C.1. with:

- “1. Contractor shall submit design of Temporary Cemetery Maintenance Roadway conforming to the requirements of these specifications, for approval by the Engineer.”
2. All materials proposed for use for this roadway shall be submitted for approval by the Engineer.”

ADD Article 22.14 Temporary Noise Barrier—Bid Item No. 120 as follows:

“22.14. Temporary Noise Barrier—Bid Item No. 120

A. Scope of Work

1. Temporary Noise Barrier shall consist of furnishing all labor, materials, tools, equipment, and incidentals and for all Work involved in constructing the Temporary Noise Barrier, complete in place, including maintenance and removal of materials, cleanup and disposal and backfilling and repairing holes, depressions and other ground disturbance, as directed by the Engineer.

B. Materials

1. Temporary Noise Barrier shall be 10 feet in height.
2. Temporary Noise Barrier shall be constructed of heavyweight plywood no less than 5/8 inch thickness, or other material providing a Sound Transmission Classification of no less than 25 dBA.
3. Temporary Noise Barrier shall be constructed with no gaps or holes that would allow noise to transmit through the barrier.
4. The surface of the barrier facing the workers shall be covered with sound-absorbing material that meets a Noise Reduction Coefficient of no less than 0.70.

C. Placement

1. Barriers shall be installed as directed by the Engineer as promptly as possible, and, if possible, work responsible for the disturbance will be suspended or modified until barriers have been installed.
2. Temporary Noise Barrier shall surround the work area to block the line of sight for all diesel-powered equipment on the ground, as viewed from any private residence or any building.
3. Proper temporary noise barrier installation shall include supports resulting in a stable temporary noise barrier to the satisfaction of the Engineer.

D. Testing

1. There are no special requirements. However, Contractor shall periodically inspect and maintain as directed by Engineer.

E. Measurement

1. Measurement for Temporary Noise Barrier shall be per linear foot of Temporary Noise Barrier completely supplied and installed by the Contractor and approved by the Engineer.

F. Payment

1. Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required for Temporary Noise Barrier as specified in these Specifications and as directed by the Engineer shall be included in the unit price bid per linear foot for TEMPORARY NOISE BARRIER, Bid Item No. 120.”

Section 24. EARTHWORK

Article 24.12. Bedding Material

REPLACE the last sentence of Paragraph B.2. as follows:

“Geotextile material shall be installed, measured and paid as specified in Article 24.18 of these Specifications.”

Article 24.16. Rock Slope Protection—Bid Items No. 39-42

REPLACE Paragraph B.6 in its entirety with:

- “6. Bedding material for use in rock slope protection shall conform to the requirements specified in Article 24.12.”

REPLACE the first sentence in Paragraph C.2. with:

“Rock slope protection for Rock weirs, including ¼ Ton class and 1 Ton Class, shall be placed by Method A specified in Section 72-2 of the State Specification.”

REPLACE Paragraph F.4. in its entirety with:

- “4. Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required for Rock Slope Protection as specified in these Specifications and as directed by the Engineer shall be included in the unit price bid per cubic yard for ROCK SLOPE PROTECTION, ROCK WEIRS (1/4 Ton and 1 Ton, Method A), Bid Item No. 42.”

Article 26.03. 1-1/2 inch, 2 ½ and 4 inch PVC Pipe—Bid Items No. 54-56

REPLACE the title of Article 26.03. with:

“26.03. 1-1/2 inch, 2 inch, 2 1/2 inch and 4 inch PVC Pipe – Bid Items No. 54-56, 119”

REPLACE Paragraph A.1. with:

“A. Scope of Work

1. 1-1/2 inch, 2 inch, 2 1/2 inch and 4 inch polyvinyl chloride (PVC) Pipe shall consist of all work and materials necessary to furnish and 1-1/2 inch, 2 inch, and 2-1/2 inch pipes for potable water and 4 inch PVC pipe for cemetery irrigation. Included in this item of work shall be pipes, PVC pipe anchors, trenching, backfilling, valves, fittings, appurtenances, thrust restraint, flushing, hydrostatic testing, and all other miscellaneous items necessary for the installation of the pipes and fittings, as shown on the Drawings and as specified in these Specifications.”

REPLACE Paragraph F.1. with:

“1. Measurement of 1-1/2 inch, 2 inch, and 2-1/2 inch PVC potable water line and 4 inch PVC pipe for irrigation for payment purposes will be per linear foot installed as measured in the field by the Engineer.”

ADD the following to end of Paragraph G.1.:

“2-1/2 inch PVC Pipe, Bid Item No. 119”

Section 31. FENCING

Article 31.01. Wood Fences—Bid Items No. 89-93

REPLACE Paragraph G.1. in its entirety with:

“1. Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required for Wood Fence Type 1, or Type 3, as specified in these Specifications and as directed by the Engineer shall be included in the unit price bid per linear foot for WOOD FENCE TYPE 1, 2, OR 3, Bid Items No. 89, 121 and 90.”

GENERAL QUESTIONS & RESPONSE

QUESTION 1.	What are the limits of the phytophthora-contaminated soil?
RESPONSE 1.	The Phytophthora-Impacted area is shown on Sheets D-2, D-3, D-5 and D-6. Articles 18.11. and 24.01. address control and removal of this soil.
QUESTION 2.	What water source is available to use for construction?
RESPONSE 2.	On Cristo Rey Drive south of the RSA exit driveway, there is a fire hydrant, operated by the San Jose Water Company. See also Articles 13.05.D. and 17.05.C.
QUESTION 3.	a) When hauling, is a flagger required at the UPRR crossing? b) Who is responsible for the flagger? c) What days of the week are the flagger required?

RESPONSE 3.	See Articles 15.07.G., 27.01.B.12., and the UPRR Agreement in Appendix B regarding coordination with UPRR.
QUESTION 4.	What is the quiet time at the cemetery?
RESPONSE 4.	Memorial services may occur between the hours of 10 a.m. and 2 p.m., Monday through Friday.
QUESTION 5.	a) Do all deliveries have to come through the one back access road? b) Is that one road used for 2 way traffic?
RESPONSE 5.	See Sheet G-8 and revision to Article 15.07.D in Addendum 3.
QUESTION 6.	Does a temporary route have to be put in place to the cemetery maintenance facility?
RESPONSE 6.	See Sheet G-6 and Articles 12.05. and 22.10.
QUESTION 7.	a) What is the speed limit by the Hammond-Snyder House? b) Why is it historical? c) Is the house empty?
RESPONSE 7.	a) See Article 27.01.B.8. b) It is Cupertino's oldest remaining farmhouse. c) The house is owned by the Cupertino Historical Society and they have an agreement with Lehigh Southwest Cement to use the house as a storage location for historical artifacts.
QUESTION 8.	The new restroom, is it custom or pre-engineered?
RESPONSE 8.	See Articles 12.05.A.4., 26.02., and Sample Restroom Building Plans and Specs in Appendix F.
QUESTION 9.	a) Will we be working on top of or underneath the gas lines? b) Will a PG&E inspector be required? c) Who will pay for the PG&E inspector?
RESPONSE 9.	a) The approximate location of the PG&E gas lines are shown on the Utility Relocation Plan Sheets C-60 to C-62. b) Coordination with PG&E is described in Article 15.02. c) The District will pay for the PG&E inspector.
QUESTION 10.	Who fixes/pays for any damage to the existing path? Is this a separate bid item or incidental work?
RESPONSE 10.	See Article 27.01.B.7.
QUESTION 11.	When will the Contract be awarded? Sept. 13th or 20th?

RESPONSE 11.	The planned award date is scheduled to occur at the September 13, 2016 Board Meeting.
QUESTION 12.	How is the well to be abandoned?
RESPONSE 12.	See Article 32.03. and Sample Copy of SCVWD Well Destruction Permit in Appendix D.
QUESTION 13.	Is the sound barrier by the mausoleum a bid item? If yes, where is the bid item located?
RESPONSE 13.	See Article 17.03.01. See also Section 22.14 of this addendum.
QUESTION 14.	Do the power lines located at the south basin need to be relocated?
RESPONSE 14.	Contractor shall coordinate with PG&E regarding minimum height above the roadway. If the lines must be raised, the contract with PG&E will be through the District.
QUESTION 15.	On the proposal form, bid item no. 108 has a unit of "Basin". Should this be "Each"?
RESPONSE 15.	Intended to be "Basin". See Article 34.05. for scope (a basin may include one large seed or three acorns, as shown on the Drawings).
QUESTION 16.	Typical section A on plan sheet C-24 shows Class 3 AB while typical section B shows Class 2 AB. Could you please clarify if this is correct or if it is all Class 2 or Class 3?
RESPONSE 16.	Correct as shown on the Drawings.
QUESTION 17.	Typical section A on plan sheet C-24 shows engineered fill to be constructed. Where can we find the limits of the engineered fill shown on the plans?
RESPONSE 17.	Limits of engineered fill are not cited in plan view. See Sheet C-3 for profile. The control line is shown along the left edge of roadway. Contractor shall determine limits of cut and fill required.
QUESTION 18.	Where is the Stabilized Aggregate Pavement shown on the plans?
RESPONSE 18.	See Addendum No. 3, Sheet C-13 and Sheet C-33.
QUESTION 19.	Please refer to detail 3 on plan sheet C-33. We have not found it shown on plan sheet C-13. Where can we find the limits of this work?
RESPONSE 19.	See Addendum No. 3, Sheet C-13 and Sheet C-33.
QUESTION 20.	Is moderate permeability soil supposed to be used for the basin bottom mounding shown on plan sheet L-02?
RESPONSE 20.	The moderate permeability soil is to be used for the top 6 inches of the basin bottom and top 6 inches of the mounds. See Detail 5, Sheet L-16 for limits of low and moderate permeability soil placement. Additional details will be provided in the next Addendum No. 5.

QUESTION 21.	Detail 2 on plan sheet C-52 shows a 4 inch plastic pipe under the porous asphalt pavement. Is the 4 inch pipe required? If so, please provide a plan showing its location, and what is the method of payment?
RESPONSE 21.	See Addendum No. 3, Sheet C-13 and Article 28.07.
QUESTION 22.	What is the thickness of the rock weirs (front to back)?
RESPONSE 22.	The thickness of the rock weirs, in the direction of the creek flow, is 2 feet.
QUESTION 23.	How are the geotextile fabric and AB shown in detail 1 on plan sheet S-1 paid?
RESPONSE 23.	Geotextile fabric for structures is paid per Article 24.18.F. Class 2 Aggregate Base for structures is paid per Article 24.14.
QUESTION 24.	In regards to the wing walls located on the ends of the 12'x6' box culvert, nowhere in the plans or specs show whether the wing walls are Type A, B or C. Furthermore, on sheet S-2 the seems to be steps shown for the footing but no dimensions or heights given for the steps or wing walls height. The 18' wing walls on the north end of the box culvert no information, elevations or dimensions are given at all.
RESPONSE 24.	See Sheets S-2, S-3, S-4, and S-11 for wingwall top of wall and grading at face of wingwalls. Contractor shall determine between Type A and Type B wingwalls based upon grading, as shown on Sheet S-2.
QUESTION 25.	I'm also having trouble finding any specific information in the plans or specs for the sound barrier discussed at the prebid meeting yesterday. It also sounded like there is a bid item for the work but I didn't see one that fit the description. Could you also please clarify this and/or provide more information (plans/specs for the work) so bidders can estimate the work accordingly?
RESPONSE 25.	See information included in this Addendum 4.
QUESTION 26.	Please reference Bid Item #26 – “Temporary Cemetery Maintenance Access Road” which is shown on Sheet G-6. What thickness of AC and AB is required for this Temp. Road?
RESPONSE 26.	See Addendum No. 4, Article 22.10.
QUESTION 27.	Please reference Bid Item #26 – “Temporary Cemetery Maintenance Access Road” which is shown on Sheet G-6. Is this Temp. Road to be completely removed once the new realigned road is built?
RESPONSE 27.	See Articles 12.05 and 22.10.
QUESTION 28.	Please reference Section D. on Sheet C-21 and specifically the aggregates called out under the 60' Car Parking area. Please clarify the specific type of aggregates called out, which specifications apply, and what Bid Item to use for each of the following: 4" Stabilized Decomposed Granite, 6" Crushed Aggregate, 1"-1/2" Aggregate, and the 12"

	Crushed Aggregate.
RESPONSE 28.	See Addendum No. 3, Sheet C-13 for paving types and detail references.
QUESTION 29.	Drawing C74 - Sheet Note 6 - Please provide a distance that all contractors can use to bid to between the meter panel and the nearest telephone service. Please show routing so we can factor difficulty for steep installations.
RESPONSE 29.	See Sheet G-10. There is an existing joint trench in Cristo Rey Drive.
QUESTION 30.	Regarding Part D Acceptability of Insurers under section 13.16.02 General Requirements, will owner revise the requirement under part D. to limit applicability to only General Liability, Excess Liability, Auto and Workers Compensation? Certain coverages required under section 13.16.01, namely Professional Errors and Omissions Liability, Contractor's Pollution Liability, and Railroad Protective Liability have extremely limited or no availability from admitted carriers.
RESPONSE 30.	No, the District will not revise this requirement.
QUESTION 31.	Bid item 28, Haul Route Prep/Restoration. Per Plan sheet G-8, the haul route plan says to construct a 15 ft Temp. Construction Roadway. 15 ft is not wide enough, to safely get the trucks in and out during the short 6 hr haul window we will need a wider road. Additionally the pathway near the North Basin is 10ft wide. Can the path be widened, and the temporary haul road be built wider than what the plans say?
RESPONSE 31.	The haul route may not be widened to allow two-way traffic. Contractor may install up to three 15-foot wide x 50-foot long turnouts on the haul route to allow passing. The Contractor shall be responsible for Site Safety, as required by the Contract Documents. See Article 15.08 regarding access roads within the job site.
QUESTION 32.	At the 84 in pipe, station 23+50-24+00, a high pressure gas line runs through the ditch, is PG&E planning on turning this off and removing the pipe prior to our installation? If not what are the methods of excavation that PG&E will allow near this pipe? What are the loading requirement of the gas pipes located within the project limits? Can sheet pile be driven next to the gas line?
RESPONSE 32.	This gas pipe serves the Cemetery. It is not intended to be turned off for an extended period of time. Contractor work near the gas pipe shall be in accordance with PG&E requirements. See Articles 11.01.A.19, 15.02.
QUESTION 33.	Does the district have a CPM schedule for this job?
RESPONSE 33.	Per Article 11.06, the project schedule is the responsibility of the Contractor. Schedule shall be in accordance with the Milestones and work constraints cited within the contract documents (see Article 11.04).
QUESTION 34.	Can you clarify were the low/med. Permeability soil goes? L-5 Refers to L-2, but is not called out on L-2. Prob. the diff. from the Nominal bottom of basin elevation and the

	grades on sheet L-2? Please clarify sheet L-2 does not show were each type goes.
RESPONSE 34.	See Detail 5, Sheet L-16 for low and moderate permeability soil at basin bottom.
QUESTION 35.	Addendum 3 added Section 17.02D, can you give us an allowance for the number of days that memorial services to base our bid on and how long, this is like trying to predict how many rain days we will have in a year. Bidders need to base their bid on the same number of shut downs. It could be quite costly with 100 trucks, and the loss of productivity.
RESPONSE 35.	17.02.D deleted per this Addendum No. 4.
QUESTION 36.	Regarding the requirement for the contractor to temporarily stop hauling (article 17.02, paragraph D), will the contractor be compensated for stopping his hauling operation? Bidders have not way of knowing the extent of the stopping required and cannot account for it in their bid. To be fair to the contractor and the water district, SCVWD should consider adding an allowance item in the bid to compensate for the cost to stop hauling.
RESPONSE 36.	17.02.D. deleted per this Addendum No. 4.
QUESTION 37.	What bid item is supposed to be used to price the grading for the parking lot and new access road?
RESPONSE 37.	See Article 24.01.A.
QUESTION 38.	There is bid item 59 UPRR Coordination-Flagging. Page 27-3 Section B-12a of the specifications says it is to be paid by the district, please clarify. When will a rail road flagger be required? Will a railroad flagger be required if we only have employees showing up and leaving shift? Will a rail road flagger be required for other deliveries other than the truck off haul?
RESPONSE 38.	See requirements in Appendix B, UPRR Commercial Private Road Crossing Agreement. The crossing is a private, uncontrolled crossing.
QUESTION 39.	What bid item is supposed to be used for 12" CMP near the restroom?
RESPONSE 39.	All 12-inch diameter storm drain pipe shall be RCP. Modifications to be cited on appropriate sheets.
QUESTION 40.	What bid item is supposed to be used for 4" perforated pipe under the parking lot?
RESPONSE 40.	See Addendum No. 3, Article 28.07.
QUESTION 41.	What bid item is supposed to be used for the groundwater monitoring well near the leach field?
RESPONSE 41.	The monitoring well is part of the at-grade system, as shown on Sheet C-71.
QUESTION 42.	Sheet D2 has a monitoring well to be removed, what bid item is supposed to be used for that work?

RESPONSE 42.	See Article 32.03. Irrigation Well Abandon and Removal – Bid Item No. 98.
QUESTION 43.	The plans show header board on both sides of the decomposed granite path, what bid item are we supposed to use for that work?
RESPONSE 43.	Per Addendum No. 3, decomposed granite is “stabilized aggregate pavement.” See Article 28.04.
QUESTION 44.	What will PG&E requirements be to work around the 10 in high pressure gas line in the vicinity of the North Pond outlet pipe? What are the loading requirements to work near that gas line?
RESPONSE 44.	Contractor work near the gas pipes shall be in accordance with PG&E requirements. See Articles 11.01.A.19 and 15.02. The District will pay for the PG&E inspector, as needed.
QUESTION 45.	I’m trying to find Appendix K in the specs for this project, and can’t locate them. There is a file called Appendices that ends with Appendix H. Please advise - thank you!
RESPONSE 45.	An Appendix K (Dewatering Plan) is referenced in the Regional Water Quality Control Board’s CWA section 401 water quality certification in Appendix B. A copy of this document is provided as ATTACHMENT 2 of this Addendum No. 4 for Contractor’s information only.
QUESTION 46.	<p>Upon reviewing the specifications in Section 102113 – Solid Color Reinforced Composite Toilet Compartments of project “Permanente Creek Flood Protection” (Bid Date: August 31, 2016) we see that you specified Bobrick “1092.67 Sierra Series”.</p> <p>We would like to present Color-Thru Phenolic by Accurate Partitions Corp. and demonstrate that Accurate Partitions quality meets and exceeds that of Bobrick “Sierra Series”.</p> <p>Color-Thru Phenolic lives up to its name, with surface color throughout the partition. Color-Thru Phenolic is highly resistant to impact, scratches and graffiti. This product also has screw-holding power and all the advantages of traditional Phenolic performance.</p> <p>Please see Accurate’s brochure in the following link.</p> <p>(http://www.accuratepartitions.com/files/ASI%20Accurate%20Partitions%20Brochure.pdf)</p> <p>Please review and write back to let us know that Accurate Partitions Corp. has been approved.</p>
RESPONSE 46.	Substitutions are not evaluated during the bidding period. See Article 10.06. for details regarding request for substitutions after contract award.

THIS ADDENDUM NO. 4, WHICH CONTAINS 12 PAGES AND 2 ATTACHMENTS, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

*Rebecca Toombs acting for
Melanie Richardson*

Date: 8-18-16

Melanie Richardson, P.E.
Deputy Operating Officer
Watershed Design and Construction Division

Enclosures:

ATTACHMENT 1: BID FORM NO. 1 (REV 1) Proposal Form and Bid Items
ATTACHMENT 2: Appendix K—Dewatering Plan

**PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN**

ADDENDUM NO. 4

ATTACHMENT 1:

BID FORM NO. 1 (REV 1) Proposal Form and Bid Items

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*This form must be completed in **ink** and changes must be **initialed**.*

Honorable Board of Directors
 Santa Clara Valley Water District (District)

Pursuant to, and in compliance with, the Notice to Bidders and the Contract Documents, relating to the **PERMANENTE CREEK FLOOD PROTECTION PROJECT-RANCHO SAN ANTONIO DETENTION BASIN**, the undersigned Bidder having become thoroughly familiar with the terms and conditions of the Contract Documents and with local conditions affecting the performance and costs of the Work and having fully inspected the Work site in all particulars, hereby proposes and agrees to fully perform the Work, including providing any and all labor and materials and performing all Work required to construct and complete said Work within the contract time stated and in accordance with the requirements of the Contract Documents, for the following sum of money.

The undersigned Bidder agrees to complete all the Work within **1,892** calendar days from the first chargeable day of the Contract, as stated in the Notice to Begin Work. The Bidder agrees to enter into a Contract with the District and provide the required bonds and insurance in accordance with Articles 4.03. & 4.04. of the Standard Provisions. If the Bidder fails to meet these requirements within the time specified in Article 4.04 of the Standard Provisions the Bidder's security accompanying this Proposal may be forfeited and become the property of the District. No Contract exists until all Contract bonds and insurance documents have been accepted by the District.

TOTAL BID: \$ _____

Bidder acknowledges receipt of the following Addenda to the Bid Documents:
 Addenda are posted online at www.valleywater.org/Programs/Construction.aspx.

NO Addenda received

Addenda received as follows:

Addendum No. _____	Date _____	Addendum No. _____	Date _____
Addendum No. _____	Date _____	Addendum No. _____	Date _____

Failure to acknowledge receipt of an Addendum on the Bid Form is not, in itself, cause for withdrawal or rejection of Bid, if it can be established that Bidder did, in fact, receive such Addendum prior to Bid opening.

The undersigned Bidder has read and understands, and will comply with, each and all of the requirements specified in these Bid Documents.

BIDDER'S COMPANY INFORMATION	
NAME:	ADDRESS:
CONTRACTOR'S CALIFORNIA LICENSE NUMBER:	
DATE OF EXPIRATION:	
LICENSE CLASSIFICATION(S):	
PHONE No.: ()	FAX No.: ()
EMAIL ADDRESS:	

SIGNATURE BLOCK (Signature Block must be completed in <i>ink</i> and changes must be <i>initialed</i>.)	
Bidder's Signature:	Date:
Bidder's Name and Title (Print):	



*This form must be completed in **ink** and changes must be **initialed**.*

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
1	Professionally-facilitated Project Partnering	<u>Lump Sum</u> Lump Sum		
2	Vibration Monitoring	<u>Lump Sum</u> Lump Sum		
3	Spillage and Dust Control	<u>Lump Sum</u> Lump Sum		
4	Compliance with NPDES General Permit	<u>Lump Sum</u> Lump Sum		
5	Migratory Birds	<u>Lump Sum</u> Lump Sum		
6	Mobilization / Demobilization	<u>Lump Sum</u> Lump Sum		
7	Preservation (ESA) Fence Riparian Area	<u>1,510</u> Linear Feet		
8	Tree Protection Fence	<u>1,200</u> Linear Feet		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
9	Temporary Visual Screening Fence	5,000 Linear Feet		
10	Temporary Silt Fence	1,500 Linear Feet		
11	Temporary Fiber Roll	24,540 Linear Feet		
12	Exclusion Fence (Animal Exclusion)	5,685 Linear Feet		
13	Clearing and Grubbing	Lump Sum Lump Sum		
14	Remove Tree	120 Each		
15	Remove Concrete Box Culvert and Wing Walls	Lump Sum Lump Sum		
16	Remove Asphalt Concrete and Base	33,700 Square Feet		
17	Remove Gravel and Base	22,501 Square Feet		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY <u>UNIT</u>	UNIT PRICE	TOTAL
18	Remove Curb Opening	<u>Lump Sum</u> Lump Sum		
19	Remove Wood Curb and Parking Bumpers	<u>Lump Sum</u> Lump Sum		
20	Remove AC Curb and Concrete Bumpers	<u>Lump Sum</u> Lump Sum		
21	Relocate Wood Fence All Types	<u>2,805</u> Linear Feet		
22	Relocate Locking Gate	<u>1</u> Each		
23	Relocate Farm Gate and Equestrian Gate	<u>1</u> Each		
24	Relocate Signs	<u>Lump Sum</u> Lump Sum		
25	Relocate Foldable Bollard	<u>1</u> Each		
26	Temporary Cemetery Maintenance Access Road	<u>Lump Sum</u> Lump Sum		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
27	Hammond-Snyder House Documentation	<u>Lump Sum</u> Lump Sum		
28	Haul Route Preparation/Restoration	<u>Lump Sum</u> Lump Sum		
29	Allowance for UPRR Crossing Restoration	<u>Lump Sum</u> Lump Sum	\$25,000	\$25,000
30	Dewatering (Control of Water)	<u>Lump Sum</u> Lump Sum		
31	Basin Excavation and Grading	<u>188,799</u> Cubic Yards		
32	Basin Excavation - Phytophthora Impacted	<u>3,276</u> Cubic Yards		
33	Finish Grading of Slopes	<u>13</u> Acre		
34	Remove and Stockpile Soil	<u>8,445</u> Cubic Yards		
35	Soil Placement	<u>8,040</u> Cubic Yards		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
36	Place Embankment (Engineered Fill)	<u>29,700</u> Cubic Yards		
37	Class 2 Aggregate Base	<u>2,510</u> Cubic Yards		
38	Class 3 Aggregate Base	<u>970</u> Cubic Yards		
39	Rock Slope Protection (Facing, Method B)	<u>8</u> Cubic Yards		
40	Rock Slope Protection (Light, Method B)	<u>140</u> Cubic Yards		
41	Rock Slope Protection (1/4 TON, Method B)	<u>260</u> Cubic Yards		
42	Rock Slope Protection, Rock Wiers (1/4 TON, Method A)	<u>18</u> Cubic Yards		
43	Geotextile Fabric	<u>2,857</u> Square Yards		
44	Monolithic Curb and Gutter and Valley Gutter	<u>46</u> Linear Feet		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
45	Flush PCC Curb (edge block) in Parking lot	<u>765</u> Linear Feet		
46	Flush PCC Curb (edge block) in Parking lot Restroom Walkway and sidewalk	<u>350</u> Linear Feet		
47	Install Wheel Stops	<u>59</u> Each		
48	Septic Tanks and Effluent Pump Station Tank	<u>Lump Sum</u> Lump Sum		
49	Effluent Pump System	<u>Lump Sum</u> Lump Sum		
50	Plastic (PVC) Pressure Pipe	<u>175</u> Linear Feet		
51	Plastic (PVC) Sewer Pipe	<u>130</u> Linear Feet		
52	At-Grade System	<u>Lump Sum</u> Lump Sum		
53	Restroom Building	<u>Lump Sum</u> Lump Sum		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY <u>UNIT</u>	UNIT PRICE	TOTAL
54	1-1/2 inch PVC Pipe	<u>345</u> Linear Feet		
55	2 inch PVC Pipe	<u>1,580</u> Linear Feet		
56	4 inch PVC Pipe	<u>1,080</u> Linear Feet		
57	1-1/2 inch Water Service	<u>1</u> Lump Sum		
58	Traffic Control	<u>Lump Sum</u> Lump Sum		
59	UPRR Coordination - Flagging	<u>Lump Sum</u> Lump Sum		
60	Traffic Striping	<u>5,175</u> Linear Feet		
61	Pavement Markings	<u>1,220</u> Square Feet		
62	Foldable Bollards	<u>2</u> Each		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
63	Concrete Barrier Type 732	134 Linear Feet		
64	Concrete Barrier Type 60S	30 Linear Feet		
65	Metal Beam Guard Rail	400 Linear Feet		
66	Asphalt Concrete Type A	1,415 Ton		
67	Place AC Dike	1,931 Linear Feet		
68	Open Graded Asphalt Concrete	467 Ton		
69	Class 2 Permeable Aggregate Base	175 Cubic Yards		
70	Stabilized Aggregate Pavement	5,300 Square Feet		
71	Armoring Aggregate	320 Cubic Yards		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
72	1/2 Inch Crushed Aggregate	<u>52</u> Cubic Yards		
73	2 Inch Crushed Aggregate	<u>653</u> Cubic Yards		
74	12 Inch Reinforced Concrete Pipe	<u>225</u> Linear Feet		
75	North Basin Inlet Pipe - 84" CMP	<u>1,438</u> Linear Feet		
76	North Basin Outlet Pipe - 24" CMP	<u>234</u> Linear Feet		
77	South Basin Inlet Pipe - 36" CMP	<u>28</u> Linear Feet		
78	South Basin Outlet Pipe - 24" CMP	<u>215</u> Linear Feet		
79	36 Inch Corrugated Steel Pipe (CSP) Riser	<u>28</u> Linear Feet		
80	12 ft x 6 ft Concrete Box Culvert	<u>Lump Sum</u> Lump Sum		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
81	Control Structure	<u>Lump Sum</u> Lump Sum		
82	Impact Stilling Basin Structure	<u>Lump Sum</u> Lump Sum		
83	Headwall w/wingwalls and Debris Rack	<u>Lump Sum</u> Lump Sum		
84	CMP Riser w/Debris Rack Cage	<u>Lump Sum</u> Lump Sum		
85	Drainage Inlet, Type G1 Drop Inlet	<u>5</u> Each		
86	Drainage Inlet, Type C-4 Inlet with Gallery	<u>1</u> Each		
87	Electrical - Irrigation Well	<u>Lump Sum</u> Lump Sum		
88	Electrical - Restroom Building Site	<u>Lump Sum</u> Lump Sum		
89	Wood Fence Type 1	<u>60</u> Linear Feet		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
90	Wood Fence Type 3	<u>2,115</u> Linear Feet		
91	Install Relocated Wood Fence Type 1	<u>785</u> Linear Feet		
92	Install Relocated Wood Fence Type 2	<u>766</u> Linear Feet		
93	Install Relocated Wood Fence Type 3	<u>1,255</u> Linear Feet		
94	Locking Gate	<u>2</u> Each		
95	Chain Link Fence and Gate, Type CL-6, With Lock	<u>50</u> Linear Feet		
96	Irrigation Well Construction	<u>Lump Sum</u> Lump Sum		
97	Irrigation Well Equipping	<u>Lump Sum</u> Lump Sum		
98	Irrigation Well Abandon and Removal	<u>Lump Sum</u> Lump Sum		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
99	Irrigation	Lump Sum Lump Sum		
100	Site Planting Preparation	23.6 Acre		
101	Erosion Control Blanket	8,266 Square Yards		
102	Bioretention Soils	265 Cubic Yards		
103	Hydroseeding	23.6 Acre		
104	Container Planting - Treepot and Deepot Planting (Riparian Mitigation, Frog Habitat)	638 Each		
105	Container Planting - Treeband Planting (Seasonal Wetland)	3,495 Each		
106	Container Planting - Shrub - 5 Gallon	26 Each		
107	Container Planting - Tree - 24 Inch Box Planting	9 Each		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
108	Large Seed and Acorn Planting	79 Basin		
109	Cuttings	114 Each		
110	Establishment Maintenance - Parking Area	2 Month		
111	Establishment Maintenance - Hydroseed	6 Month		
112	Establishment Maintenance - Seasonal Wetland and Basin Slope (Maintenance and Watering)	3 Month		
113	Establishment Maintenance - Seasonal Wetland and Basin Slope (Maintenance Only)	33 Month		
114	Establishment Maintenance - Riparian and Frog Enhancement Habitat (Maintenance and Watering)	12 Month		
115	Establishment Maintenance - Riparian and Frog Enhancement Habitat (Maintenance Only)	24 Month		
116	Weed Control	36 Month		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY <hr style="width: 50%; margin: auto;"/> UNIT	UNIT PRICE	TOTAL
117	Irrigation System Operation and Maintenance	<hr style="width: 50%; margin: auto;"/> 12 Month		
118	Signage and Markers	<hr style="width: 50%; margin: auto;"/> Lump Sum Lump Sum		
119	2-1/2 inch PVC Pipe	<hr style="width: 50%; margin: auto;"/> 710 Linear Feet		
120	Temporary Noise Barrier	<hr style="width: 50%; margin: auto;"/> 1,600 Linear Feet		
121	Wood Fence Type 2	<hr style="width: 50%; margin: auto;"/> 410 Linear Feet		
TOTAL BASE BID				



This form must be completed in ink and changes must be initialed.

SUPPLEMENTAL BID ITEMS

These Bid Items may or may not be required. They may be deleted entirely or in part, by deductive change order(s), at the sole discretion of the District

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
1	Plant Replacement - Treepot/Deepot Plant Replacement	<u>351</u> Each		
2	Plant Replacement - Large Seed/Acorn Replacement	<u>43</u> Each		
3	Plant Replacement - Cutting Replacement	<u>63</u> Each		
4	Plant Irrigation by Event - Riparian and Frog Habitat Areas	<u>1</u> Event		
5	Plant Irrigation by Event - Seasonal Wetland	<u>1</u> Event		
6	Plant Irrigation by Event - Basin Slope Plantings	<u>1</u> Event		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY <hr style="width: 50%; margin: 0 auto;"/> UNIT	UNIT PRICE	TOTAL
7	Re-hydroseeding	0.5 <hr style="width: 50%; margin: 0 auto;"/> Acre		
TOTAL SUPPLEMENTAL BID				

TOTAL BID (Base Bid Subtotal + Supplemental Subtotal)	
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**PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN**

ADDENDUM NO. 4

ATTACHMENT 2:

Appendix K—Dewatering Plan

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Temporary Water Diversion Plan

Permanente Creek Flood Protection Project

I. General

- A. Water diversion shall be implemented by the Contractor to maintain the work site as water-free as possible for the duration of in-channel work, as permitted. The full width of the channel from tops of banks shall be dewatered. Water incursion is expected from natural and urban runoff flows from upstream and outfalls from San Antonio Rancho. Contractor is advised that the channel invert is expected to remain muddy after dewatering, and contractor should use appropriate equipment and stabilizing pads as necessary.
- B. Please note that what is presented below is the initial water division plan for the project. The design and implementation of the plan may be modified in the field as necessary upon agreement between the Contractor and the District.
- C. Contractor is advised that all activities associated with the Temporary Water Diversion Plan shall be consistent with and governed by the NPDES General Construction Permit (GCP) for a Level 2 project, including sampling, testing, rain event preparation, inspection, BMP evaluation, and record-keeping. Contractor shall comply with Best Management Practices in accordance with the Stormwater Pollution Prevention Program, and the Discharge Activities Suite, District Best Management Practices, W751M01, attached.
- D. State Specifications referenced are those of Caltrans 2010.
- E. Contractor shall install cofferdams to prevent stream flows from entering the work site. The term "cofferdam" will be used to identify a structure preventing the intrusion of water into the work area. Construction phasing will determine the specific locations of the cofferdams during what activity. At one location, the work on one side of Hale Creek will allow an in-channel separation of the work area from the live stream.
- F. State General Guidelines for Dewatering Plans
 - 1. All work performed within waters of the State shall be completed in a manner that meets the water quality objectives to ensure the protection of beneficial uses as specified in the Basin Plan.
 - 2. All dewatering and diversion methods shall be installed such that natural flow is maintained upstream and downstream of the project area.
 - 3. Any temporary dams or diversion shall be installed such that the diversion does not cause sedimentation, siltation, or erosion upstream or downstream of the project area.

- G. Any changes to the approved plan that may have the potential to impact waters of the State must be acceptable to the Regional Water Board's Executive Officer.

II. Design Of Cofferdams and Associated Elements

The cofferdams will prevent stream flows from entering the work site. Cofferdams shall be no less high than that required to intercept flows from upstream and then gravity or pump discharged past the work area. Contractor shall determine whether to use gravity or pump flow past the work site. Contractor shall determine whether to discharge to the downstream channel or a local agency storm drain.

- A. Water detained behind a cofferdam shall be pumped and piped past the work area and be discharged below the work area downstream into velocity dissipators.
- B. Contractor shall make available an appropriate number and size of water storage tanks (Baker tanks) and pumps in preparation for collecting any water from the work site. The project area shall be dewatered by means of pumping the water from ponded locations into Baker tanks for testing and appropriate disposal or discharge downstream if water meets the requirements of the GCP. If testing shows that the water exceeds a water quality objective, Contractor shall develop a methodology to eliminate the exceedance or properly dispose of the water upon approval by the Engineer.
- C. Expected water flows are based on historical maximum summer flows measured at flow gauges on the Permanente Diversion and Hale Creek. The cofferdams and diversion systems shall be designed to accommodate a 10 (ten) cubic feet per second (cfs) flow rate.
- D. See attached PDF for plan of the diversions and dissipator design. Note that locations shown are illustrative and may be modified during installation dependent on construction methods.
- E. Contractor shall install 30-inch diameter pipe from the cofferdams to below the work area to allow anticipated summer stream flows to avoid contacting the work area. See attached Figures for diagrams of proposed cofferdam locations.
- F. The cofferdam structures will be wrapped in 10-mil-thick plastic sheeting to reduce or eliminate voids between bottom of the dam and the stream rock. Where a pipe runs through the cofferdam and it rests on the channel bottom, it will be wrapped with plastic around the pipe and incorporated into the temporary gravel bag dam to provide a good seal. The ends of the pipe will be secured with gravel bags to provide stabilization.
- G. The contractor is advised that summer stream flows can vary significantly depending on off-season storm events, and high flows can last several hours.
- H. If there is a forecast storm event as determined in accordance with the requirements of the NPDES Construction permit for the project (see Article 18.01), Contractor shall prepare and implement the Rain Event Action Plan. If stream flow from a significant

storm event overtops the cofferdam, Contractor shall pump this overflow, and any direct flows, into Baker tanks to be tested before discharge as described below.

- I. Cofferdams shall remain in place and functional throughout the in-stream construction periods. Cofferdams shall be removed at annual cessation of in-channel work, and channel and bank shall be restored to a stabilized condition.

III. **Cofferdam Locations**

The Project will be constructed in phases corresponding to permitted construction seasons: one for Permanente and Hale Creeks, and one for the Rancho San Antonio detention basins. The seasonal phases result in independent diversion plans for each location.

Site Number	Location	Approximate Stationing	Plan Sheets	1% WSE above Invert
1.	Hale Creek at Arroyo Road	12+72 to 11+00 H-line	Permanente Project C-12	5 ft
2.a	Start at Hale Creek 600 ft downstream Arroyo Road	6+15 H-line, Confluence with Permanente Creek	Permanente Project C-11 to C-9	4.5 ft
2.b	Permanente Creek at Hale Creek	263+20 to 249+00 C-line	Permanente Project C-9 to C-7	7.5 ft
3.	Permanente Creek at Rancho San Antonio	50 feet above Proposed Cemetery Maintenance Road Realignment	Rancho San Antonio C-11 to C-10	Not calculated, cofferdam height equal to adjacent topography.

IV. **Materials**

a. **Cofferdams**

- i. Cofferdams shall be constructed of gravel-filled bags, placed end-to-end to eliminate gaps. Stack the bags in the upper row to overlap the joints in the lower row. Cofferdams in cross-section shall be that of a triangle. The cofferdams shall be seven (7) feet in height; at Rancho San Antonio they will be equal to the adjacent topography.

b. **Gravel Bags**

- i. The gravel materials used in each gravel bag will have less than 15% fine content. The gravel bags will be placed on top of the plastic sheeting,

which will be laid upon the channel invert or bank to prevent leakage. The gravel bags will be arranged so that each layer of gravel bag placed will be staggered in pyramid-like fashion. After the final height has been reached, the original plastic sheeting shall be placed on top of the sandbags. To hold the plastic sheeting in place, gravel bags will be placed above the top plastic sheeting. Gravel bags on top of the plastic sheeting will be spaced no more than 3 feet apart.

ii. Gravel must:

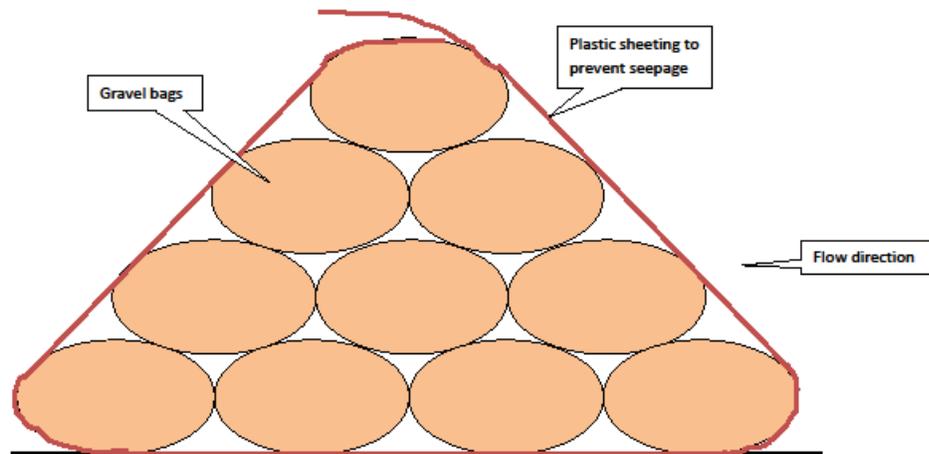
1. Be clean, hard, sound, durable, uniform in quality, and free of any detrimental quantity of soft, thin, elongated or laminated pieces, disintegrated material, organic matter, or other deleterious substances
2. Be composed entirely of particles that have no more than one fractured face, and be from $\frac{3}{8}$ to $\frac{3}{4}$ inch in diameter.
3. Have a cleanliness value of at least 85, as determined by the Cleanliness Value Test Method for California Test No. 227.

iii. Gravel-filled bags must:

- iv. Be made of geosynthetic material.
- v. Have inside dimensions from 24 to 32 inches long and from 16 to 20 inches wide.
- vi. Have a bound opening to retain gravel. The opening must be sewn with yarn, bound with wire, or secured with a closure device.
- vii. Weigh from 30 to 50 pounds when filled with gravel.

viii. Plastic sheeting must be:

- ix. Single ply, commercial quality, non-photodegradable polyethylene with a minimum thickness of 10 mils under ASTM D 5199.
- x. Free of holes, punctures, tears or other defects that compromise the impermeability of the material.
- xi. Suitable for use as an impermeable membrane.
- xii. Plastic sheeting shall be installed as shown with the final end taped to the beginning end. Lap and join all joints between the edges of impermeable plastic membrane with commercial quality waterproof tape with minimum 4-inch lapping at the edges.



c. Pipe

Pipe shall be of 30-inch nominal diameter minimum HDPE to be fused together. Piping will be installed as shown on attached figures or alternate location as approved by District to allow upstream flows to pass the work site. Installation shall ensure that flows will not be released into the work site.

Pipe shall:

1. Be clean, uncoated, in good condition, paint oil dirt or other residues that could potentially contribute to water pollution;
2. Be adequately supported for planned loads as identified by the Contractor;
3. Use watertight joints;
4. Be made of HDPE material suitable for clean water and which does not contain banned, hazardous, or unlawful substances;
5. Be smooth walled.

The pipe outlet will be rocked with rock riprap in such fashion as to prevent erosion at the outlet in accordance with CASQA Construction BMP EC-10.

d. Pumps

Pumps shall be on site to dewater the work site as necessary. Pumps shall be sized by the Contractor. The table below is to assist the Contractor (from the Caltrans *Field Guide to Construction Site Dewatering*) in determining the pump sizing. Discharge from the dewatered area shall be contained and tested in

accordance with the requirements of the NPDES General Construction permit. Pumps will be required (1) to reroute water from the stream, which accumulates above the cofferdam; and (2) to dewater the construction area above the downstream cofferdam or where ponded.

Table 2-2. Typical Pump Flow Rates	
Pump Size (submersible)	Typical Flow Rates Gallons per Minute
1.5-inch	90 to 120
2-inch	90 to 300
3-inch	300 to 800
4-inch	400 to 1,300
6-inch	400 to 1,800

Contractor is responsible for identifying and managing groundwater seepage and flows from other outfalls into the work area. It is expected that outfall flows will be minor during the construction season. Contractor may collect the outfall flows within the work site with other waters, such as groundwater, which will be tested after routing to Baker tanks. Or Contractor may collect outfall flows without contacting the work site and routing downstream. This may require a pump and collector at each outfall.

e. Dissipators

Diversion pipe flow velocity dissipators shall be installed downstream of the cofferdam on existing banks. Dissipators shall be installed from pipe outlet to channel invert. Design shall be in accordance with CASQA Construction BMP EC-10.

V. Testing

- A. All discharges from the construction site shall be in accordance with Risk Level 2, SWPPP. Daily visual inspection will be made at discharge point BMPs to ensure BMPs are undamaged and in place. Results will be recorded as part of the SWPPP reports.
- B. Samples will be collected and analyzed as required by 2009-0009-DWQ amended by 2010-0014-DWQ & 2012–2006-DWQ for Risk 2 projects, Appendix D, Table 3:

pH: Field test with calibrated portable instrument, detection limit 0.2 pH units, Numerical Action Limits (NAL): lower NAL pH=6.5 and upper NAL pH=8.5,
Turbidity: Field test with calibrated portable instrument and/or EPA 0180.1, detection limit 1 Nephelometric Turbidity Unit (NTU), NAL=250 NTU.

- C. Water collected from the construction site (run-on, ponded water, collected groundwater) shall be visually inspected and sampled per Risk Level 2 requirements.
- D. Diverted water shall flow by gravity or by pumping from above the upstream dam to below the downstream dam, without being in contact with the construction site.
- E. Water from within the project site—run-on, collected groundwater, ponded water—exceeding NALs or potentially containing contaminants shall be pumped or otherwise routed to storage tanks for testing, treating and eventual discharge or disposal. Sediments will be removed by settling; pH will be adjusted by appropriate methods. Only compliant water will be discharged. Otherwise contaminated water will be disposed of in accordance with all applicable regulations.
- F. It will be the Contractor's responsibility to select locations for water collection on-site and subsequent storage for testing, treating, and disposal. Compliant water could either be routed into the existing diversion piping, or into separate piping, discharging into the flow dissipation BMP.

VI. Removal

- A. When all work within a construction area is complete and no access to the channel will be required, except for plantings, irrigation, and plant maintenance, the temporary water diversion system and cofferdams shall be removed by October 15 of each construction season, or later as permitted by the California Regional Water Quality Control Board, San Francisco Bay Region, and the District.
- B. In accordance with District Best Management Practices, W751M01, WQ-16, Avoid Erosion when Restoring Flows:

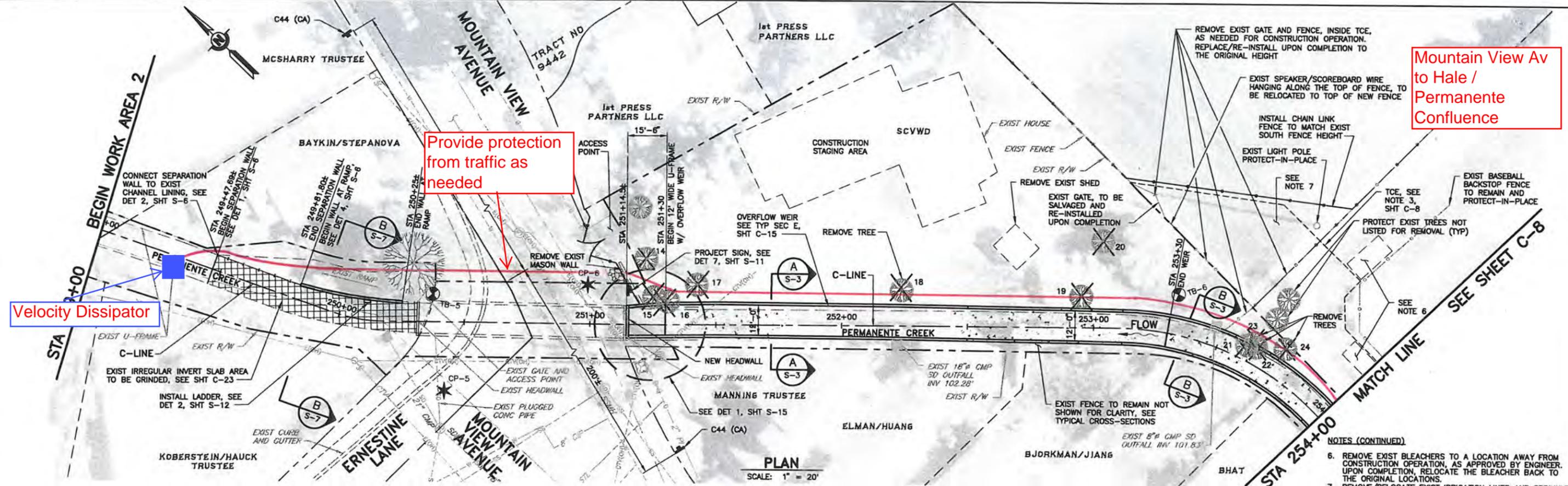
The removal will proceed from the downstream cofferdam in an upstream direction. Flows will be restored in a manner that minimizes erosion.

1. When diversion structures are removed, to the extent practicable, the ponded flows will be directed into the low-flow channel within the work site to minimize downstream water quality impacts.
2. Flows will gradually be restored to the channel to avoid a surge of water that would cause erosion or scouring.

- C. Bypassed flows may be slowly reintroduced into the dewatered area by leaving a silt barrier in place to allow water to slow and drop sediment to the extent possible. Also, energy dissipation per the CASQA Construction BMP Handbook shall be installed for all discharge points.

Attachments

USER: debobett Wed 05 Mar 2014 10:18am
 FILENAME: K:\Active Projects\MP-26244001\Perm Creek\PP\Sheets\C-07
 DOCUMENT NUMBER: PEM_LP-C-1024-00000000.00

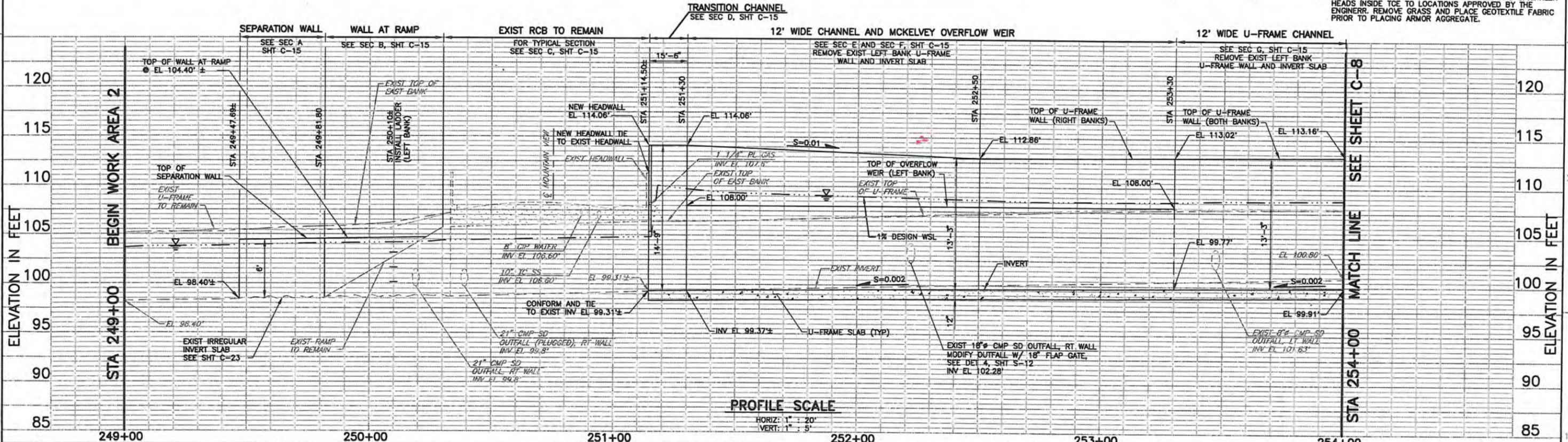


Mountain View Av
 to Hale /
 Permanente
 Confluence

Provide protection
 from traffic as
 needed

Velocity Dissipator

- NOTES (CONTINUED)
- REMOVE EXIST BLEACHERS TO A LOCATION AWAY FROM CONSTRUCTION OPERATION, AS APPROVED BY ENGINEER. UPON COMPLETION, RELOCATE THE BLEACHER BACK TO THE ORIGINAL LOCATIONS.
 - REMOVE/RELOCATE EXIST IRRIGATION LINES AND SPRINKLER HEADS INSIDE TCE TO LOCATIONS APPROVED BY THE ENGINEER. REMOVE GRASS AND PLACE GEOTEXTILE FABRIC PRIOR TO PLACING ARMOR AGGREGATE.



REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION	PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
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				CONTINUED (UPPER RIGHT SIDE).				VERIFY SCALES	SHEET CODE:
								0 1"	C-7
								BAR IS ONE INCH ON ORIGINAL DRAWING. VERIFY ONE INCH ON ALL SCALES ACCORDINGLY.	PROJECT NUMBER: 26244001 SHEET NUMBER: 17 OF 66



90% DESIGN
 MAR 2014

4

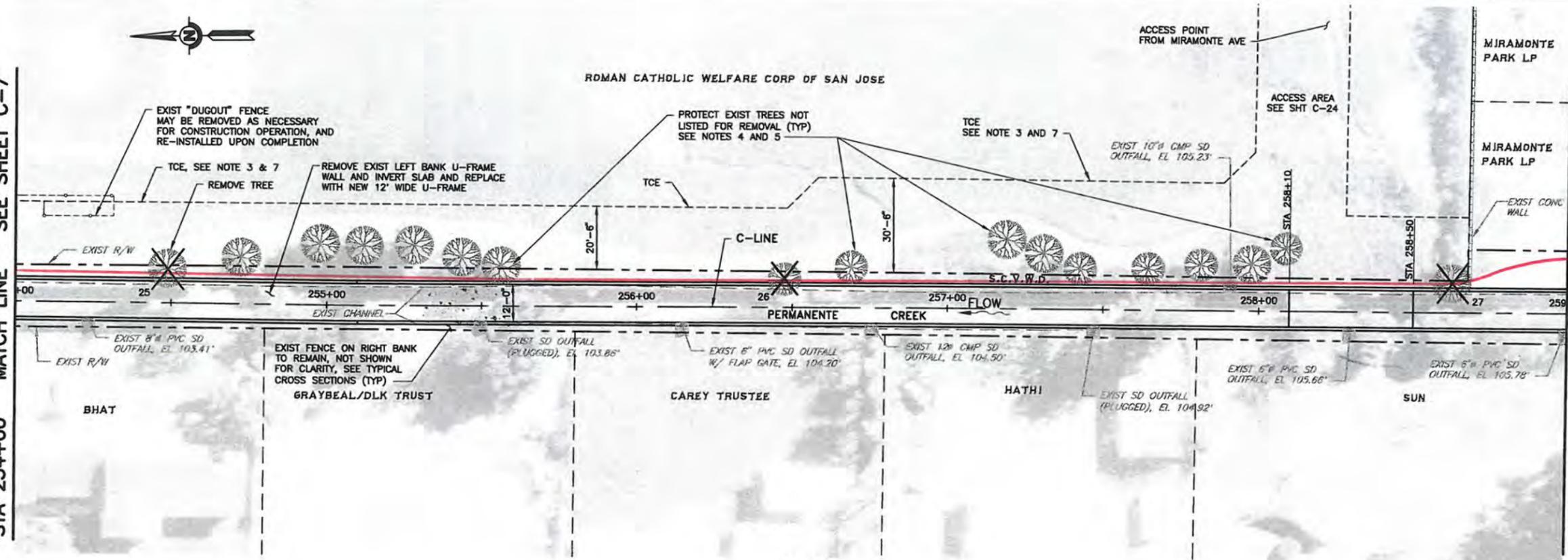
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2

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STA 254+00 MATCH LINE SEE SHEET C-7

STA 259+00 MATCH LINE SEE SHEET C-9

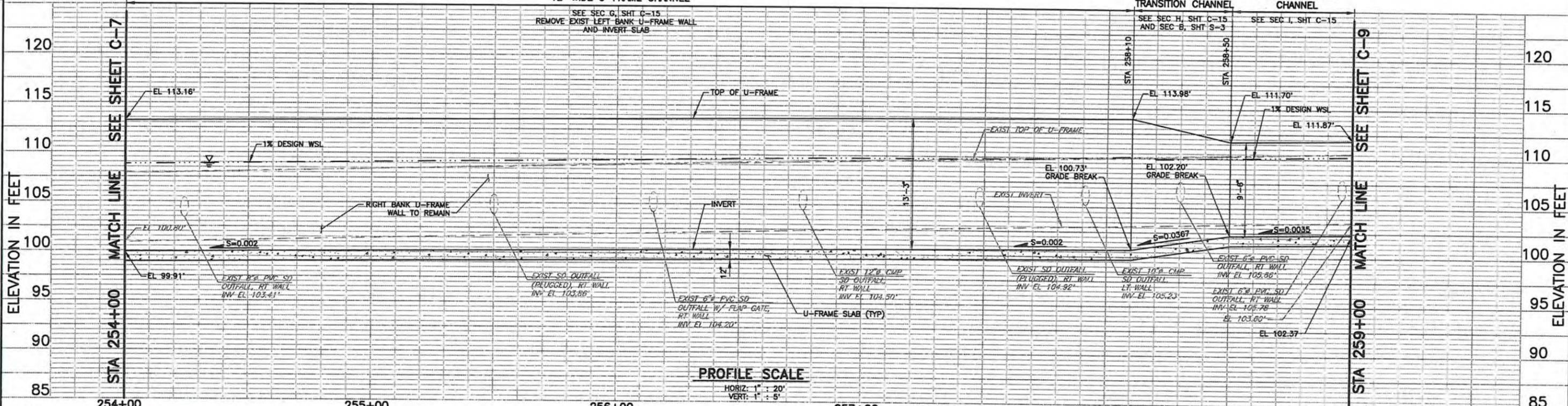


PLAN
SCALE: 1" = 20'

Mountain View Av
to Hale /
Permanente
Confluence

STA 254+00 MATCH LINE SEE SHEET C-7

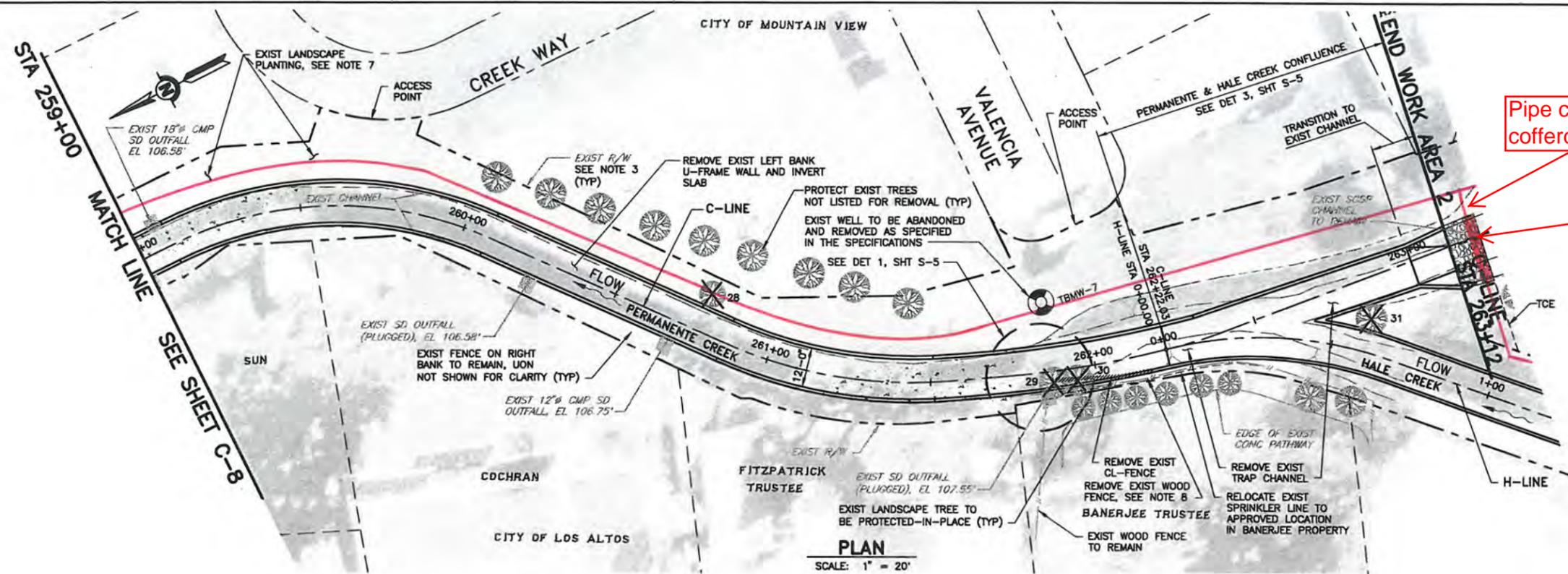
STA 259+00 MATCH LINE SEE SHEET C-9



PROFILE SCALE
HORIZ: 1" = 20'
VERT: 1" = 5'

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					G. LAU				
					J. CORDOVA				
					G. LAU				

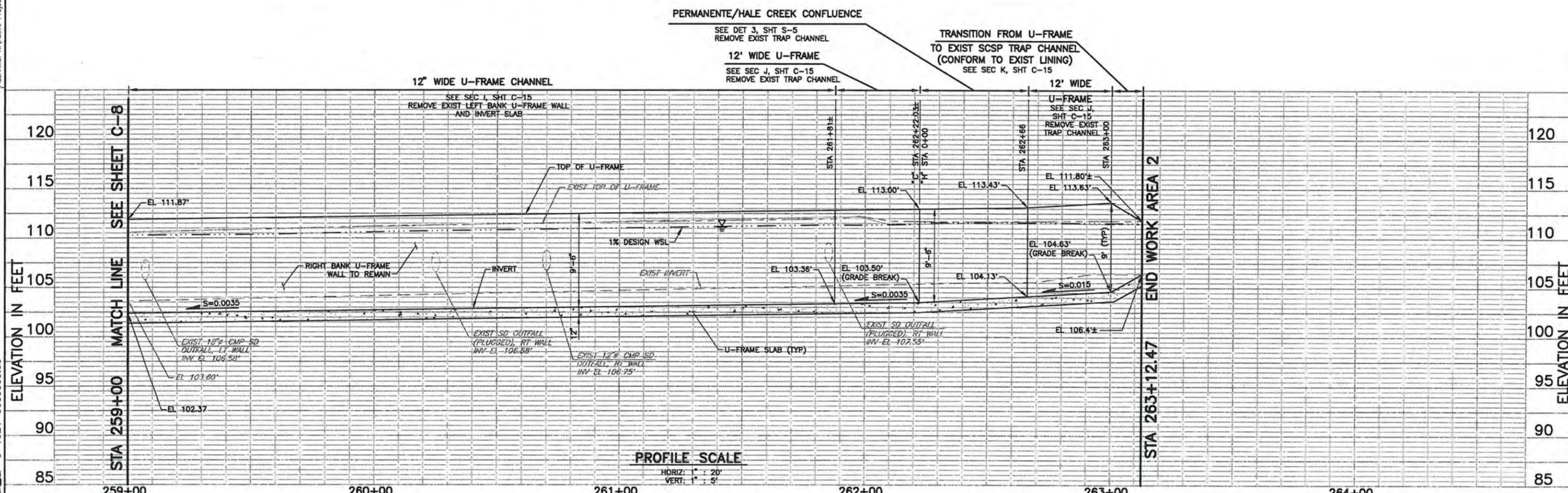
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PLAN
 SCALE: 1" = 20'

Pipe crosses cofferdam
 Cofferdam

Mountain View Av
 to Hale /
 Permanente
 Confluence



PROFILE SCALE
 HORIZ: 1" = 20'
 VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR.
	90% DESIGN MAR 2014		

REFERENCE INFORMATION AND NOTES
 1. DESIGN 1% FLOWRATE IS 1300 CFS
 2. FOR CONTROL LINE C-LINE, SEE SURVEY LAYOUT SHT G-8 & G-9.
 3. INSTALL TEMPORARY CL-6" FENCE W/ PVC SLATS ALONG TCE LINES.
 4. TREES NOT LISTED FOR REMOVAL THAT HINDER CONSTRUCTION OPERATIONS MAY BE REMOVED WITH ENGINEER'S APPROVAL
 5. ALL ADJACENT TREES NOT LISTED FOR REMOVAL SHALL BE PROTECTED FROM CONSTRUCTION OPERATIONS.
 6. SEE TREE REMOVAL TABLE ON SHT C-26.
 7. LANDSCAPING AND IRRIGATION REMOVED OR DAMAGED DURING CONSTRUCTION WILL BE REPLACED IN-KIND.
 8. INSTALL NEW WOOD FENCE AT R/W LINE PRIOR TO CHANNEL CONSTRUCTION, SEE DET B, SHT S-11.

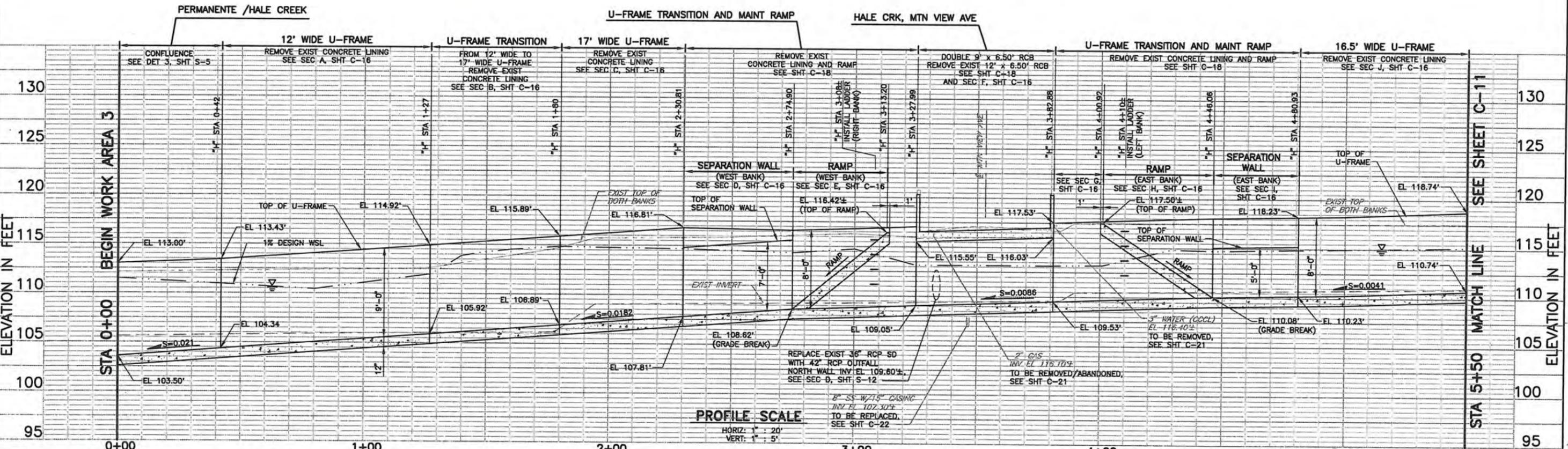
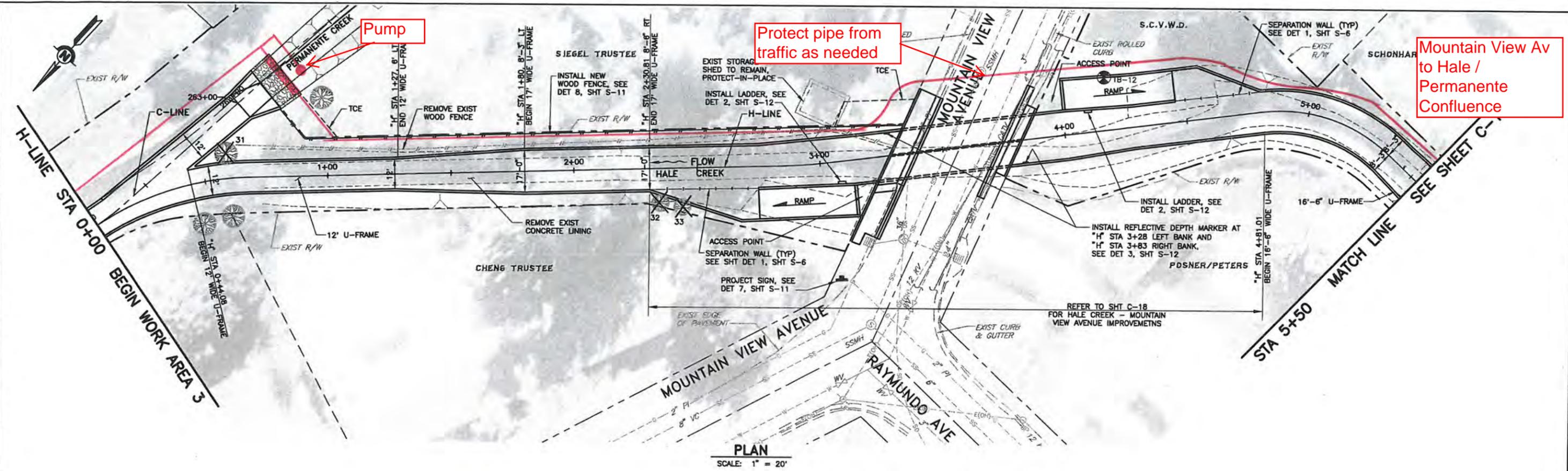
DATE	ENGINEERING CERTIFICATION
MAR 2014	
DESIGN	
G. LAU	
DRAWN	
J. CORDOVA	
CHECKED	
G. LAU	
PROJECT ENGINEER	DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
**PERMANENTE CREEK
 FLOOD PROTECTION PROJECT**
 PERMANENTE CREEK
 PLAN AND PROFILE, U-FRAME
 STA 259+00 - STA 263+12.47

SCALE	PROJECT NUMBER
AS SHOWN	26244001
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										20 OF 66

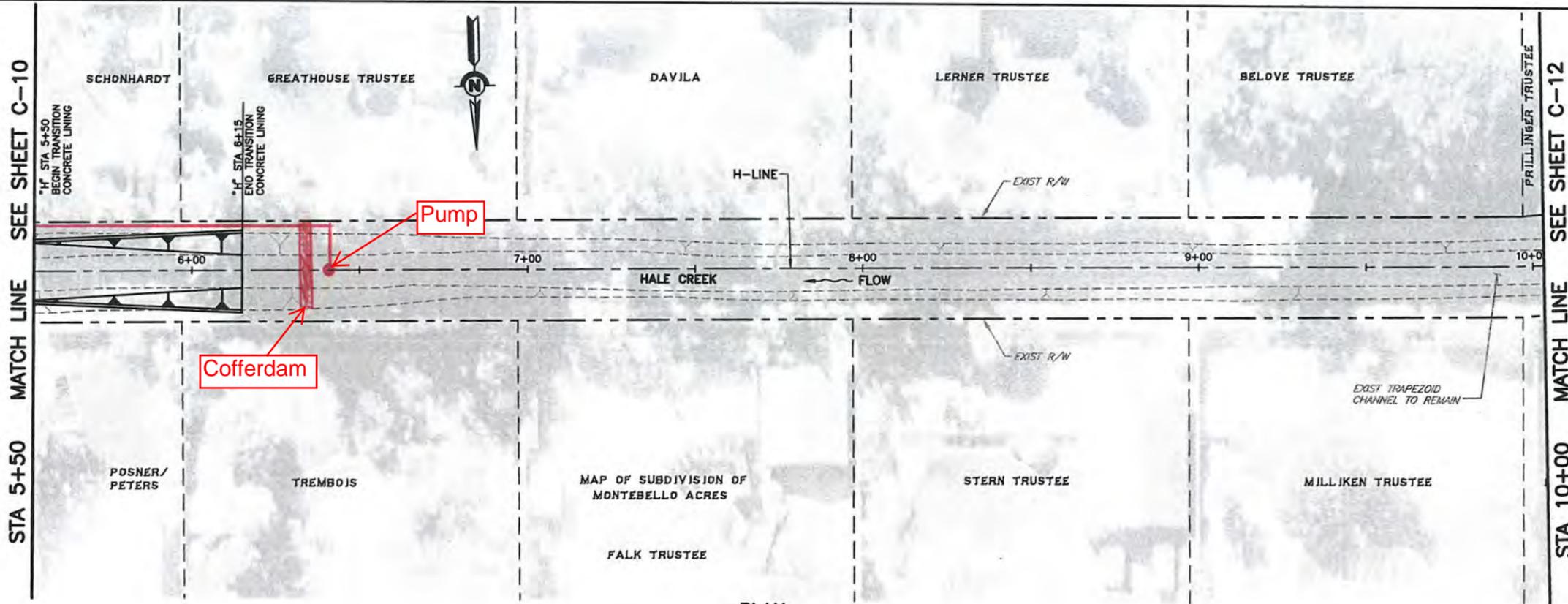
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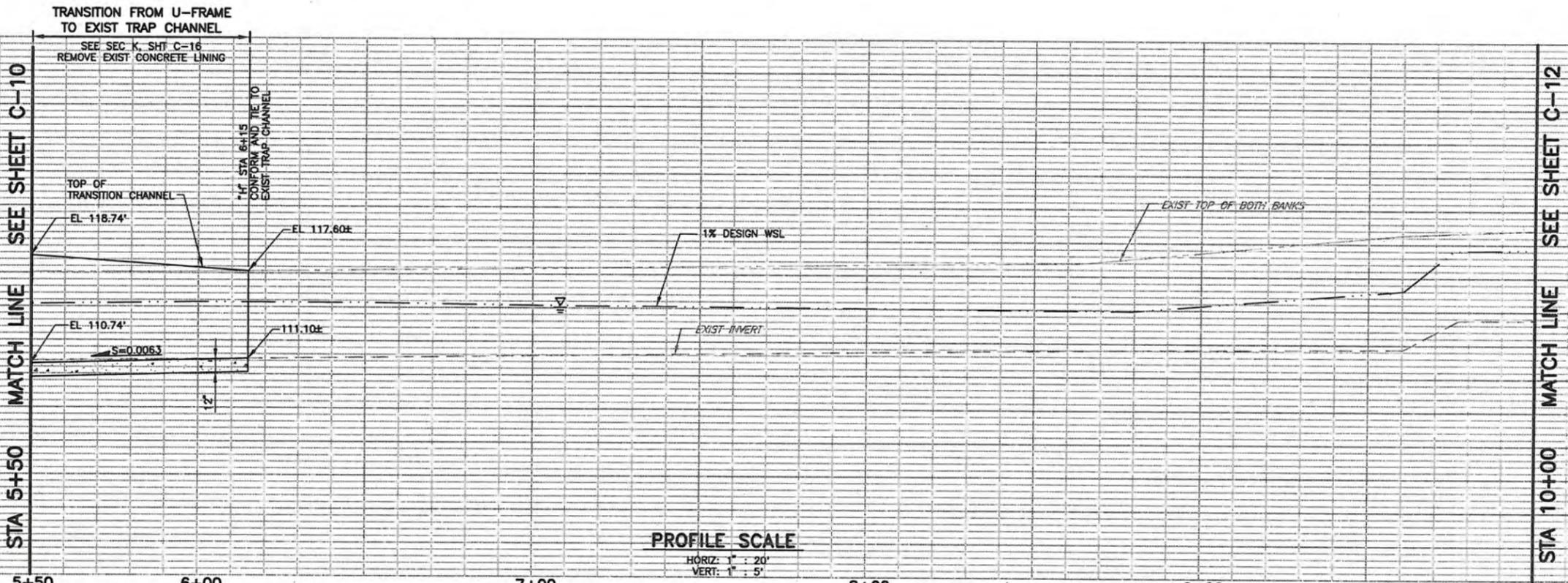
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1



PLAN
 SCALE: 1" = 20'

Mountain View
 Avenue to Hale /
 Permanente
 Confluence



PROFILE SCALE
 HORIZ: 1" = 20'
 VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR.
	90% DESIGN MAR 2014		

REFERENCE INFORMATION AND NOTES
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2. FOR CONTROL LINE H-LINE, SEE SURVEY LAYOUT SHEET G-10.

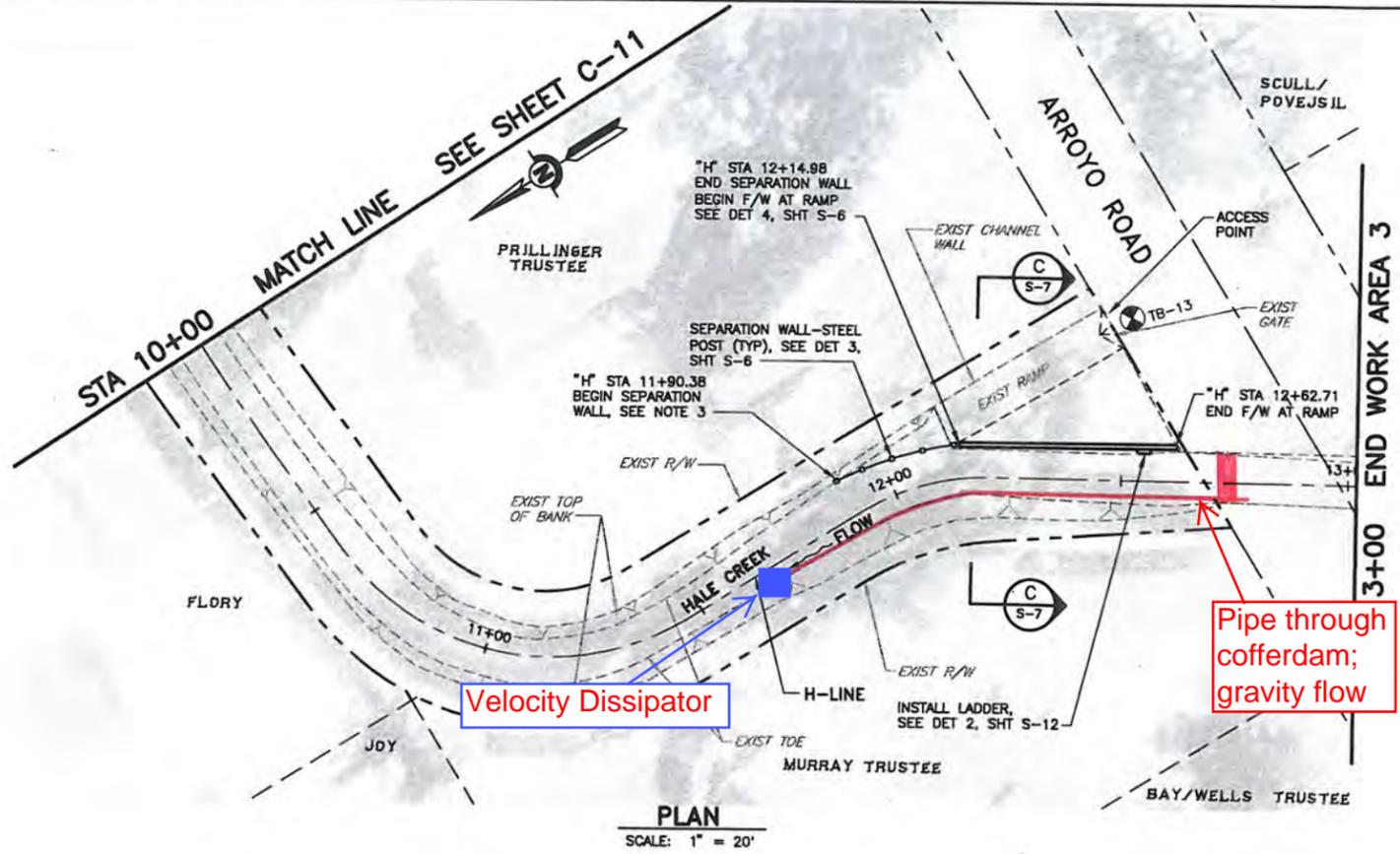
DATE	ENGINEERING CERTIFICATION
MAR 2014	
DESIGN	
G. LAU	
DRAWN	
J. CORDOVA	
CHECKED	
G. LAU	
PROJECT ENGINEER	DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
**PERMANENTE CREEK
 FLOOD PROTECTION PROJECT**
 HALE CREEK
 PLAN AND PROFILE
 U-FRAME, STA 5+50 - STA 10+00

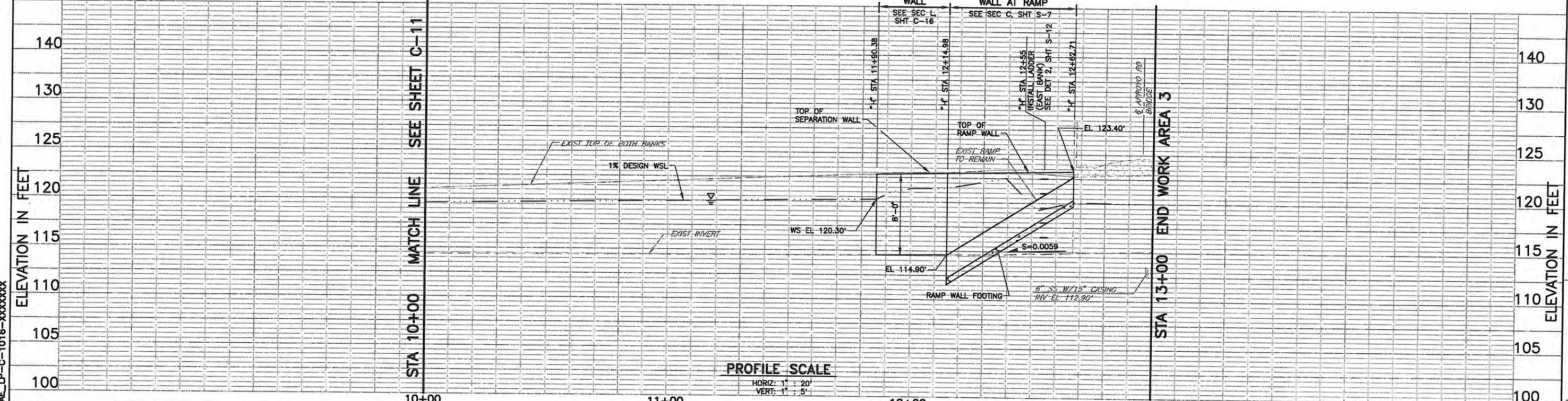
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AS SHOWN	26244001
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IF NOT ONE INCH ON ORIGINAL DRAWING, VERIFY SCALES ACCORDINGLY	21 OF 66

3.a Hale Creek at Arroyo Road



Pipe through cofferdam; gravity flow

Velocity Dissipator

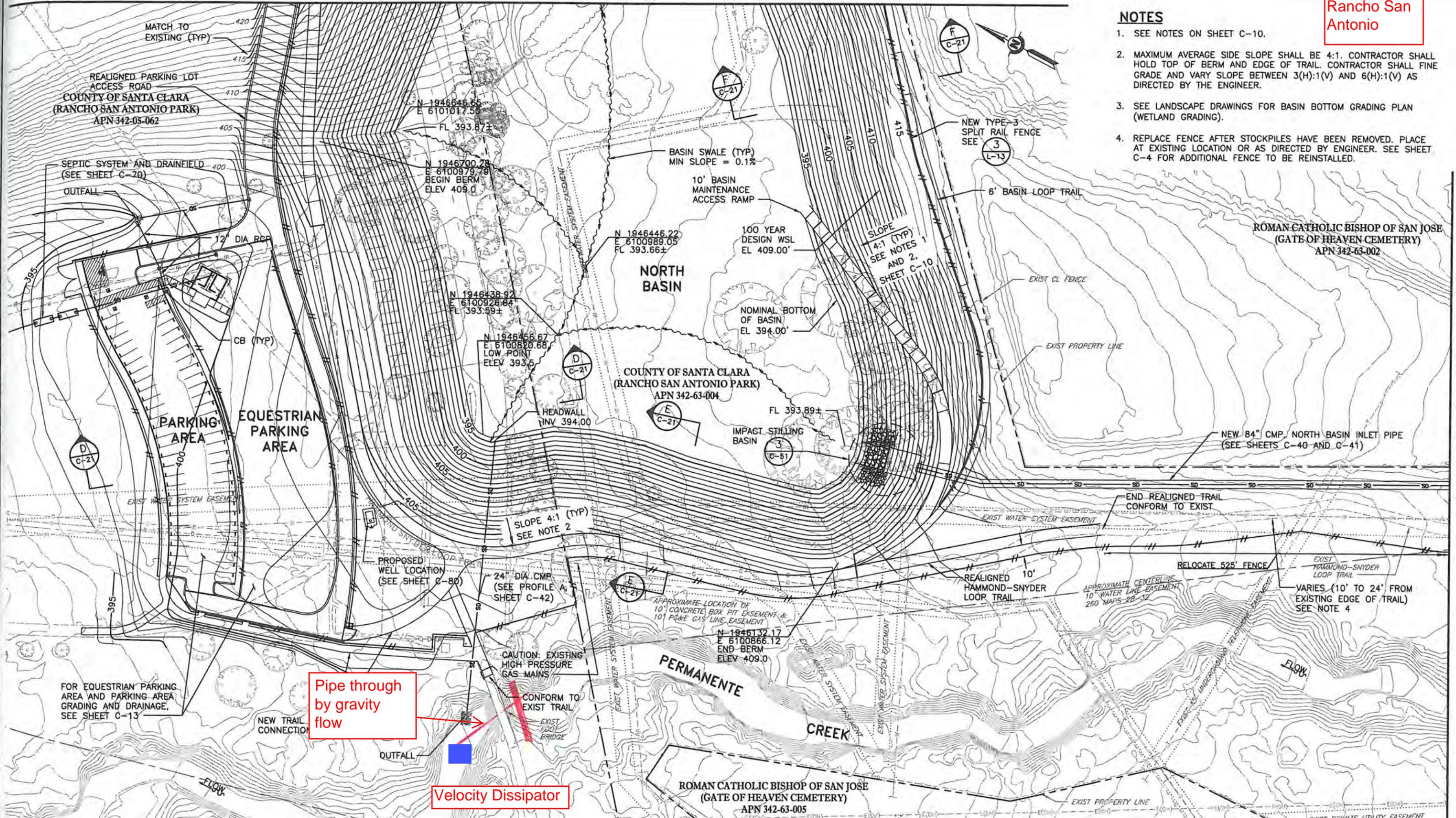


DOCUMENT NUMBER: HAE_LP-C-1016-XXXXXX USER: deobett Wed 05 Mar 2014 10:22am FILENAME: K:\Active Projects\VP-2624001\Perm Creek FPP\Sheets\C-12	STA 10+00 MATCH LINE SEE SHEET C-11	STA 10+00 MATCH LINE SEE SHEET C-11	STA 11+00	STA 12+00	STA 13+00 END WORK AREA 3	STA 13+00 END WORK AREA 3	STA 10+00 MATCH LINE SEE SHEET C-11	STA 10+00 MATCH LINE SEE SHEET C-11
	90% DESIGN MAR 2014	DATE APPR. REFERENCE INFORMATION AND NOTES 1. DESIGN 1% FLOWRATE IS 1100 CFS. 2. FOR CONTROL LINE "H-LINE", SEE SURVEY LAYOUT SHEET G-10. 3. AT ARROYO RAMP, THE SEPARATION WALL DOES NOT CONNECT WITH EXISTING TRAPEZOID CHANNEL LINING. THE WALL-STEEL POST ENDS AT THE EXISTING CHANNEL TOE. USE SECTION A, SHEET S-7 FOR STAND ALONE REMOVABLE POST.	DATE MAR 2014 DESIGN G. LAU DRAWN J. CORDOVA CHECKED G. LAU	ENGINEERING CERTIFICATION PROJECT ENGINEER DATE	Santa Clara Valley Water District	PROJECT NAME AND SHEET DESCRIPTION: PERMANENTE CREEK FLOOD PROTECTION PROJECT HALE CREEK PLAN AND PROFILE U-FRAME, STA 10+00 - STA 13+00	SCALE AS SHOWN VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING THIS SHEET ADJUST SCALES ACCORDINGLY	PROJECT NUMBER 26244001 SHEET CODE: C-12 SHEET NUMBER: 22 OF 66

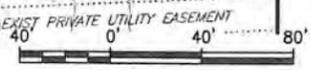
Rancho San Antonio

NOTES

1. SEE NOTES ON SHEET C-10.
2. MAXIMUM AVERAGE SIDE SLOPE SHALL BE 4:1. CONTRACTOR SHALL HOLD TOP OF BERM AND EDGE OF TRAIL. CONTRACTOR SHALL FINE GRADE AND VARY SLOPE BETWEEN 3(H):1(V) AND 6(H):1(V) AS DIRECTED BY THE ENGINEER.
3. SEE LANDSCAPE DRAWINGS FOR BASIN BOTTOM GRADING PLAN (WETLAND GRADING).
4. REPLACE FENCE AFTER STOCKPILES HAVE BEEN REMOVED. PLACE AT EXISTING LOCATION OR AS DIRECTED BY ENGINEER. SEE SHEET C-4 FOR ADDITIONAL FENCE TO BE REINSTALLED.



REDUCED HALF SIZE (11X17)



DOCUMENT NUMBER: XXXX-X-0000-0000000.00

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
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Hatch Mott MacDonald
Water and Wastewater
181 Metro Drive, Ste. 510
San Jose, CA 95110
T 408.572.8800
www.hatchmott.com

DATE: 03-17-14
DESIGN: Y LIAO
DRAWN: K MEYER
CHECKED: G RITTER

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER
TRADE: K SAKARINRA
C37141
Exp. 06/30/14
CIVIL
STATE OF CALIFORNIA

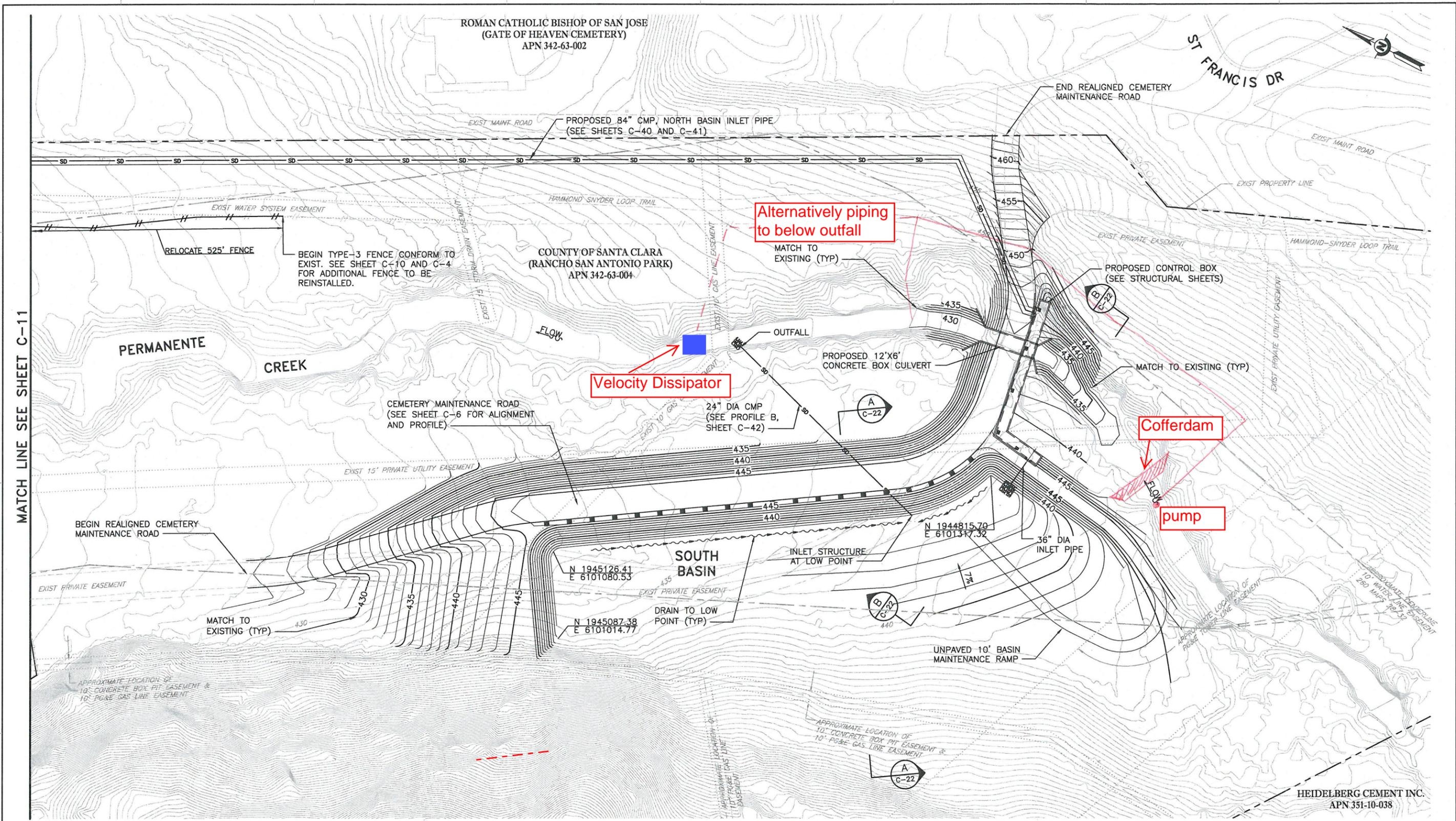
Santa Clara Valley Water District

ACCEPTED BY DISTRICT

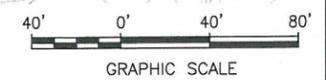
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RANCHO SAN ANTONIO
NORTH BASIN GRADING PLAN

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REDUCED HALF SIZE (11X17)



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Hatch Mott MacDonald
 Water and Wastewater
 181 Metro Drive, Ste. 510
 San Jose, CA 95119
 T 408.572.8800
 www.hatchmott.com

DATE: 03-17-14
 DESIGN: Y LIAO
 DRAWN: K MEYER
 CHECKED: G RITTER
 PROJECT ENGINEER DATE

ENGINEERING CERTIFICATION

Santa Clara Valley Water District
 ACCEPTED BY DISTRICT

PROJECT NAME AND SHEET DESCRIPTION:
**PERMANENTE CREEK
 FLOOD PROTECTION PROJECT**
 RANCHO SAN ANTONIO
 SOUTH BASIN
 GRADING PLAN

SCALE	PROJECT NUMBER
1" = 40'	26244001
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0 1"	C-12
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NUMBER: OF



**CAPITAL PROGRAM SERVICES
5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 630-3088
FACSIMILE (408) 979-5631
www.valleywater.org
scvwdplanroom@valleywater.org**

*Notification of this Addendum is transmitted via email to all current plan holders.
This Addendum is posted on the District website at
www.valleywater.org/Programs/Construction.aspx.*

August 26, 2016

**ADDENDUM NO. 5
TO CONTRACT DOCUMENTS FOR THE
PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN
Project No. 26244001; Contract No. C0617**

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

BID DOCUMENTS

BID FORM NO. 1 Proposal Form and Bid Items

REPLACE BID FORM NO. 1 Proposal Form and Bid Items with BID FORM NO. 1 (REV 2) Proposal Form and Bid Items (ATTACHMENT 1)

SPECIFICATIONS AND CONTRACT DOCUMENTS

TABLE OF CONTENTS

REPLACE Article: "34.07. FINAL INSPECTION FOR CONSTRUCTION AND PLANT INSTALLATION PHASE" with:

"34.07. COARSE WOODY DEBRIS—Bid Item No. 122

34.08. FINAL INSPECTION FOR CONSTRUCTION AND PLANT INSTALLATION PHASE"

SPECIAL PROVISIONS

Section 13. SPECIAL REQUIREMENTS

Article 13.16.02 General Requirements

REPLACE the last sentence of Paragraph H. with:

"Claims-made coverage is not allowed with the exception of Professional Errors and Omissions Liability."

Section 17. PERMITS AND REGULATIONS

Article 17.01.01 District Obtained Permits

DELETE Paragraph C. in its entirety.

Article 17.08 Parking

ADD the following sentence at the end of Paragraph C.:

“Trucks, equipment, and Contractor personnel vehicles are prohibited from parking within existing or proposed parking areas intended for Park users.”

Section 18. ENVIRONMENTAL

Article 18.07.04 General Nesting Seasons

REPLACE the first sentence of Paragraph A. with:

“The nesting season in the project area is generally considered to be from January 15th through September 1st.”

Article 18.08.01 Special Status Frogs

ADD after the first sentence of Paragraph B. with:

“Contractor’s Biologist shall provide tail gate type training for all staff below the supervisory level.”

REPLACE the entirety of Paragraph C. with:

“C. At least 24 hours prior to the onset of site preparation and construction activity, the Contractor’s Biologist will conduct a preconstruction survey for special-status frogs within the project footprint. The survey will cover all area where special-status frogs may be present or concealed, including cracks, burrows, vegetation adjacent to wet areas, and other temporary refugia, as well as any riparian or wetland habitat affected. If any listed amphibians (i.e., adults, subadults, juveniles, tadpoles, or eggs) are found within the project footprint, the Engineer shall be immediately notified. Engineer will determine whether construction work and/or maintenance activities in their vicinity can be avoided until they have moved outside of the project area of their own volition. If relocation outside the work area is necessary, a USFWS- and DFW- approved biologist working in accordance with agency-approved protocols will conduct the relocation before site preparation and construction activities begin. Relocation sites will be approved by the USFWS and DFW.”

Article 18.08.02 Western Pond Turtle

REPLACE the third sentence of Paragraph A. with:

“If western pond turtle(s) are found, the Contractor’s Biologist shall immediately notify the Engineer and determine which areas must be monitored on a daily basis, and staging areas prior to the commencement of construction activities, during

construction activities to avoid harm to western pond turtle.”

Article 18.08.03 Special Status Bats

REPLACE the last sentence of Paragraph A. with:

“If special-status bats are found in the project footprint, a Contractor’s Biologist will consult with DFW staff to identify the appropriate protection measures that Contractor must take.”

Article 18.08.05 Submittals

ADD the following sentence to the beginning of Paragraph B.:

“If any sensitive species are found, the Engineer must be immediately notified.”

Article 18.11 Plant Pathogen Control

REPLACE Paragraphs A through D. in their entirety with:

“A. The contractor shall employ the **BMP for Pathogen Control during General Construction, Operations and Maintenance Activities** from Day 1 to contract closure within the project limits except for the contaminated area delimited on the Drawings as ‘Basin Excavation – Phytophthora Impacted.’ The contaminated area includes the existing wetland plus a 25-foot perimeter buffer and shall be considered a Contaminated Site in its entirety. Contractor shall strictly employ **Contaminated Site Standard Operating Procedures** every time any equipment or personnel enters or exits this boundary. After Contractor completes excavation of the Contaminated Site and decontaminates all equipment/tools/boots to the satisfaction of the Engineer, Contractor may henceforth default to using the **BMP for Pathogen Control during General Construction, Operations and Maintenance Activities** for all areas inside the project limits.

1. BMP for Pathogen Control during General Construction, Operations and Maintenance Activities

Construction and maintenance practices must minimize the spread of plant pathogens that could be present in vehicles, construction equipment and tools and work shoes. Standard operating procedures shall include the following:

- The exterior and interior of all vehicles (including cabs, tires, treads, tracks, wheel wells, undercarriage), equipment and tools should be cleaned free of debris, soil/mud prior to arrival at the site.
- Work shoes should be clean and free of mud/soil/debris.
- Vehicles shall stay on paved or rocked roads when possible and avoid dirt roads if soil/mud sticks to vehicle tires and undercarriages to limit re-exposure to soil-borne pathogens.

- If vehicles, construction equipment, tools or workers' boots are used off site at another project, they shall be cleaned before returning to the Rancho San Antonio project site to resume work.

2. Contaminated Site Standard Operating Procedures

Prior to entry into the Contaminated Site, the **BMP for Pathogen Control during General Construction, Operations and Maintenance Activities** shall be implemented to minimize the spread of new plant pathogens that could be present in vehicles, equipment and tools and on work shoes.

Prior to exiting the Contaminated Site, all vehicles other than loaded trucks performing off-haul of contaminated soil, construction equipment, tools and shoes must be thoroughly cleaned while still inside the expanded Contaminated Site boundary.

- The perimeter of Contaminated Site shall be expanded to accommodate the cleaning apparatus, such as a portable wash rack with high pressure washer and/or compressed air with sealed containment compartments for effluent, sludge or sloughage per 18.11.01 E.
- The interior cabs of equipment must be cleaned by vacuuming or washing.
- Footwear and small tools must be thoroughly cleaned and sanitized before exiting
 - Shoe soles/tools must first be cleaned of debris/mud/soil with a stiff brush/screwdriver/horse pick.
 - Then shoe soles/tools shall be sprayed with minimum 70% ethyl or isopropyl alcohol to fully wet to kill pathogen spores.
- Any soil/mud/refuse removed during cleaning shall be captured and contained for proper disposal off site per article 18.11.01 F.
- Any contaminated wash water effluent shall be captured and contained for later proper disposal per Articles 18.11.01 E and 24.01 A.3.a.”

Article 18.11.01 Removal of Contaminated Soil

REPLACE Paragraphs A. through G. in their entirety with:

- “A. Within the contamination removal zone, begin excavation of each cut in the most-impacted area, i.e. the interior of the wetland, and work the less-impacted 25-foot buffer zone last to dilute any contaminated sloughage and prevent its migration outside the perimeter.
- B. Remove contaminated soil in two cuts
 1. Remove first cut to a depth of 10 inches, clean excavation equipment per BMP 18.11.A.2. and 18.11.01 E. and allow new surface to dry to the satisfaction of the Engineer.
 2. Remove 10-inch buffer cut with clean excavation equipment.

- C. Remove phytophthora-contaminated soil from the project site immediately. Stockpiling of phytophthora-contaminated soil onsite will not be allowed.
- D. Haul contaminated soil separately from other project spoils. Mark each truck used to off haul soil from the Contaminated Site and clean per BMP 18.11.A.1 before returning to project site.
- E. Truck and equipment tires or tracks and undercarriage of vehicles leaving the delineated phytophthora-contaminated soil areas shall be washed using a truck wash and settling tank system appropriately sized for the vehicles to be used and the number of vehicles to use the truck wash per day. The tanks shall have sufficient capacity to store the generated volumes of water and sludge. The tanks shall be located within the fence enclosing the phytophthora-impacted soil areas. The wash water shall not be applied to the project site or discharged to a storm drainage system or to a creek. Refer to Section 24.01 for additional requirements.
- F. Phytophthora-impacted soil and sludge from the truck wash settling tanks must be permanently placed at a landfill and must not be used as fill material at another project site. Landfill submittal substantiating this shall be required and shall be submitted within 5 business days after soil and sludge have exited the site per 24.01.C.5.”

TECHNICAL PROVISIONS

Section 22. PREPARATORY WORK

Article 22.01. Mobilization/Demobilization—Bid Item No. 6

A. Scope of Work

REPLACE the first sentence of Paragraph A.2. with:

“Prior to mobilization on-site for any construction work through completion of Establishment Maintenance work, Contractor shall decontaminate his equipment, excavators, trenchers, graders, including tires, tracks, undercarriage of on-site vehicles, and tools and implements, such as augers, scarifiers, disks, etc. to prevent the introduction of plant pathogens.”

Article 22.03. Riparian Habitat and Wetland Protection

A. Scope of Work

REPLACE Item 2. with:

“2. Contractor shall delimit areas to be protected with Preservation Fence complying with Section 22.02 as shown on drawings and as directed by Contractor’s Biologist.”

REPLACE Item 4. With:

- “4. Equipment shall not be operated in wetted areas, including but not limited to ponded, flowing, or wetland areas (except in the basin footprint), or within the live stream channel below the level of top-of-bank.”

Article 22.07. Exclusion Fence (Animal Exclusion)—Bid Item No. 12

D. Testing

REPLACE Item 1. With:

- “1. There are no special requirements. However, Contractor shall periodically inspect and maintain the exclusion fence (animal exclusion) in accordance with Articles 18.07 and 18.08.”

Section 24. EARTHWORK

**Article 24.01. Basin Excavation and Grading and Basin Excavation –
Phytophthora Impacted—Bid Item No. 31 and 32**

A. Scope of Work

REPLACE the first sentence of Paragraph A.3.a. with:

“For discharges of wash water to the sewer system, the Contractor shall obtain and comply with the conditions of permit(s) from the appropriate operating or accepting Agency.”

C. Testing and Submittals

ADD Items 5. and 6. as follows:

- “5. Contractor shall submit documentation from Landfill receiving contaminated wetland soil substantiating that it was deposited in an area of permanent placement.
6. Contractor shall submit documentation/permits from Cupertino Sanitary District/San Jose-Santa Clara Regional Wastewater Facility for disposal of contaminated wash water into sewer system.”

Article 24.03. Remove and Stockpile Soil—Bid Item No. 34

A. Scope of Work

REPLACE Item 3. with:

- “3. For areas outside the existing seasonal wetland from where soil is to be stockpiled, the Contractor shall use cleaned equipment in conformance with Article 18.11 to first remove and dispose of the top 3-inches of soil as shown on the Drawings, after clearing and grubbing as described in Article 22.08 of these Specifications.”

REPLACE Item 6. with:

- “6. Low Permeability Subsoil and Moderate Permeability Subsurface Soil shall be stockpiled in windrows six (6) feet high and four (4) feet high, respectively, maximum as shown on the Drawings, at the locations shown on the Drawings and as directed by the Engineer.”

Article 24.04. Soil Placement—Bid Item No. 35

B. Material and Placement

REPLACE Item 5. With:

- “5. Moderate Permeability Subsurface Soil shall be placed onto the placed Low Permeability Subsoil as shown on the Drawings. Moderate Permeability Subsurface Soil shall be placed as a single lift and compacted to a relative compaction of not more than 80-85 percent.”

Section 34. PLANTING

Article 34.01. Site Planting Preparation—Bid Item No. 100

C. Placement

REPLACE Item 4. with:

- “4. The Contractor shall not conduct soil preparation activities if the Engineer determines the soil is too moist and such activities will cause soil compaction. Contractor may not claim delay if site preparation is delayed by unacceptable site conditions.”

Article 34.01.03 Soil Tillage

A. Scope of Work

DELETE Paragraph A.2.a. in its entirety.

C. Placement

REPLACE Item 2. with:

- “2. Prior to plant installation and seeding on the North Basin slopes, the Contractor shall evenly spread biochar to a depth of X inches then till all planting areas, except the parking area planting zone, to be by disking soils to a depth of 3 inches. Disking on sloped areas shall take place on contour parallel to the slope and leave mini rills to function as seed capture sites. For flat areas, once the soil has been disked in successive parallel passes in one direction, additional passes will be made at a 60 to 120 degree angle to the alignment of the first series of passes using the same equipment. The surface should be left rough *textured* with no clods or rocks greater than 3 inches diameter. Pre-planting soil preparation shall create a smooth and firm seedbed by using the appropriate implements after disking, such as a ring roller and/or cultipacker.”

Article 34.01.05 Bioretention Soils—Bid Item No. 102

B. Materials

ADD the following sentence to the end of B.3.a.:

“Compost must be free of herbicide residuals.”

D. Testing and Submittals

DELETE Paragraph D.7. in its entirety.

Article 34.02. Planting—General

A. Scope of Work

REPLACE the last sentence of Item 1. with:

“Completion of this work shall be in accordance with Article 11.04 of these Specifications.”

B. Materials

ADD following sentence to the end of Item B.1.:

“Refrigerated acorns shall be requested only after weather has cooled and just before planting.”

ADD the following sentence at the beginning of B.3.:

“Plants shall be delivered by District’s nursery contractor at a time arranged by Contractor. Contractor shall be responsible for unloading plants.”

ADD the following sentence to the end of B.7.:

“Mulch shall be certified as pathogen-free from Control Laboratories Inc., 42 Hangar Way, Watsonville, CA 95076, (831)724-5422. Skip loaders and trucks used to load and transport mulch to the site shall be washed down prior to use.”

Article 34.05. Large Seed and Acron Planting—Bid Item No. 108

C. Placement

REPLACE the second sentence of Item 3. with:

“Acorns shall be placed horizontal in the center of the planting basin, ½-inch to 1-inch below finish grade, in a 12-inch equilateral triangle.”

ADD Article 34.07. Coarse Woody Debris—Bid Item No. 122 as follows:

“34.07. Coarse Woody Debris—Bid Item No. 122

A. Scope of Work

1. Coarse woody debris shall consist of all work and materials necessary to salvage, stockpile, and install tree trunks with branches of *Quercus agrifolia* (coast live oak) minimum trunk length 8-feet long, in areas identified on the Plans for Red Legged Frog Enhancement. Included in this item of work shall be all other miscellaneous items necessary for the installation of coarse woody debris, as shown on the Drawings, and as specified in these Specifications.

B. Materials

1. Materials shall be in accordance with Article 34.02, with exceptions as noted below.
2. Trees with branches that are suitable sources for coarse woody debris shall be identified on site prior to demolition by the Engineer.
3. Portions of trees cited to be removed by the project, of tree types and sizes cited, may be salvaged and used for coarse woody debris.
3. Trees with branches that are demolished for use as coarse woody debris shall be transported with a minimum of damage, and stockpiled on site in an area protected from construction movement as identified with the Engineer.

C. Placement

1. Placement shall be in accordance with Article 34.02, with exceptions as noted below.
2. Coarse woody debris shall be transported from the stockpile location with a minimum of damage and installed on the ground in locations and orientations identified by the Engineer. The intent of placement is for the trees with branches to mimic natural deadfall.

D. Testing

1. None

E. Submittals

1. None.

F. Measurement

1. COARSE WOODY DEBRIS will be measured per each location installed.

G. Payment

1. Full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work required for coarse woody debris shall be included in the unit price bid per each for COARSE WOODY DEBRIS, Bid Item No. 122.”

REPLACE title of “**Article 34.07. Final Inspection for Construction and Plant Installation Phase**” with:

“Article 34.08. Final Inspection for Construction and Plant Installation Phase”

APPENDICES

APPENDIX B

REPLACE the **California Department of Fish and Wildlife 1602 Streambed Alteration Agreement (Date Revised: October 14, 2015)** with”

“California Department of Fish and Wildlife 1602 Streambed Alteration Agreement (Date Revised: July 26, 2016)” (ATTACHMENT 2)

CONSTRUCTION MAP AND PLAN

DRAWINGS

REPLACE in their entirety the following drawings (ATTACHMENT 3):

- D-1 DEMOLITION NOTES, LEGEND, AND SCHEDULES
- D-2 EXISTING TOPO AND DEMOLITION PLAN, NORTH BASIN
- D-3 EXISTING TOPO AND DEMOLITION PLAN, NORTH BASIN
- D-4 EXISTING TOPO AND DEMOLITION PLAN, SOUTH BASIN
- C-1 PARKING LOT LAYOUT PLAN
- C-2 PARKING LOT ACCESS ROAD REALIGNMENT, PLAN AND PROFILE
- C-13 PARKING LOT PAVING, GRADING AND DRAINAGE PLAN
- C-21 NORTH BASIN, SECTIONS
- L-03A MITIGATION PLANTING PLAN – SEASONAL WETLAND & RIPARIAN AREA
- L-03B MITIGATION PLANTING PLAN – SEASONAL WETLAND & RIPARIAN AREA
- L-04 PLANTING PLAN – NORTH BASIN
- L-05 PLANTING PLAN – SOUTH BASIN
- L-07 TYPICAL PLANTING UNIT LAYOUTS – SEASONAL WETLAND & RIPARIAN AREA
- L-08A IRRIGATION PLAN
- L-16 MITIGATION PLANTING DETAILS

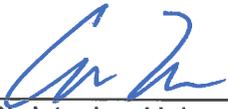
GENERAL QUESTIONS & RESPONSE

QUESTION 1.	Please reference Specification 26.02.A. for Restroom Building - Bid Item No. 53. The fourth line down on page 26-62 states that the “Restroom building must be constructed on-site. Pre-fabricated or modular products will not be allowed.” Please revise this specification to allow Pre-fabricated buildings.
RESPONSE 1.	A pre-fabricated building has been disallowed by the approving Agency.
QUESTION 2.	Please provide wall profiles for the box culvert inlet and discharge wing walls at Permanente Creek. The wall H values cannot be determined without top of footing elevations. It is also unclear whether the wing wall footings are intended to be step footings or flat. Please provide more information.
RESPONSE 2.	See Sheets S-2, S-3, S-4, and S-11 for wingwall top of wall and grading at face of wingwalls. Contractor shall determine between Type A and Type B wingwalls based upon grading, as shown on Sheet S-2.
QUESTION 3.	There seems to be some overlap of Bid Items # 54 & #57 (C-60 & C-61) on the drawings Sheet #51, 52. The water service connection called out in the specs Section 26-66 call for piping to be copper Type K all the way to the restrooms. But- on the drawings the pipe is called out as PVC 1 ½” and 2 ½”. Is there an overlap in qt’s? Please clarify what quantities are to be included in Bid Item #57.
RESPONSE 3.	Bid Item No. 54 is for the on-site piping (which also includes piping to the existing drinking fountain). Bid Item No. 57 is for the 1 ½” service between the SJWC main in Cristo Rey Drive and the back of the backflow preventer (i.e., includes service connection to main, 1 ½” copper pipe to/through meter, meter, meter box, backflow preventer, fittings and appurtenances, coordination with SJWC).
QUESTION 4.	The Geotech Report shows that ground water will be encountered during the North Basin Excavation. Where is the contractor to discharge this water?
RESPONSE 4.	Refer to Section 23 of the Project Specifications.
QUESTION 5.	Plan Sheet C-3 references details A & B, clarify the limits for each detail.
RESPONSE 5.	Limits of engineered fill are not cited in plan view. See Sheet C-3 for profile. The control line is shown along the left edge of roadway. Contractor shall determine limits of cut and fill required.
QUESTION 6.	Plan Sheet C-21 Detail D you reference 1” ~1/2” aggregate, clarify or identify the respective bid item.
RESPONSE 6.	The detail cites 1-inch thickness of 1/2 inch aggregate (Bid Item No. 72). Refer to Specification Sections 28.06 and 28.07.
QUESTION 7.	Plan Sheet G-6 Phase 3 detail - provide more details specifically the limits for the removal of the temporary portion of concrete box culvert.
RESPONSE 7.	Limits of temporary box culvert removal shall conform to requirements of the permanent

	box culvert limits shown on Sheet S-2. Contractor shall confirm during construction; removal length is anticipated to be less than 5 feet.
QUESTION 8.	Bid Item No. 37-Class 3 Aggregate Base has an approximate qty of 8,542 CYDS there appears to be a discrepancy, confirm the qty.
RESPONSE 8.	See Addendum 4 for revision to quantity.
QUESTION 9.	What is the depth and diameter of the existing irrigation well to be abandoned per bid item 98 and where is it located on the plans?
RESPONSE 9.	The existing Irrigation well is shown on Sheet G-11 and on Sheet D-3. Estimated depth of existing well is 41 feet, based on 2009 well pump replacement records. However, please note that previous records indicate existing well depth is approximately 80 feet. Estimated diameter of existing well is 8 inches.
QUESTION 10.	Sheet D-2 shows a "monitoring well to be abandoned". Is this an additional well to be abandoned? if so need depth and diameter.
RESPONSE 10.	Existing monitoring well to be abandoned shall be included in the Lump Sum cost paid for Bid Item No. 98, Irrigation Well Abandon and Removal. Depth and diameter are per information provided in the Geotechnical Report.
QUESTION 11.	Section 32 Can we put 20 ft of temporary conductor casing instead of permanent?
RESPONSE 11.	The purpose of the conductor casing is for the safety of the drill rig and to maintain borehole stability. If the selected driller is comfortable with installing a temporary conductor casing, they may do so at their discretion. Refer to specifications and drawings for 50 foot cement sanitary seal requirements.
QUESTION 12.	Section 32: If pilot hole is deemed satisfactory would 50 ft of conductor casing need to be installed?
RESPONSE 12.	Typical procedure is to install conductor casing prior to pilot hole.
QUESTION 13.	Section 32.03 Can you please specify the preferred method of well abandonment?
RESPONSE 13.	Contractor shall obtain well destruction permit from the Santa Clara Valley Water District. Per Specification Section 32.03 Part B, "the well abandonment method will be determined by an authorized District representative during processing of the well destruction permit." Possible destruction methods are described on the District well destruction permit application.
QUESTION 14.	Is there only irrigation going to the 5 gallon and 24" size plants demonstrated on L-6 plan sheet?
RESPONSE 14.	Scope of work includes pit preparation, soil preparation, and planting of 5 gallon and 24" box size plants to be provided by the Owner, irrigation to these plants, and maintenance per Drawings and Specifications.

QUESTION 15.	Is there irrigation going to treeband and deepot plant basins or is that only for hand watering?
RESPONSE 15.	Treeband and Deepot plant basins are hand watering only.
QUESTION 16.	As discussed at the project job walk, Teichert Construction requests access to the project site to perform additional site investigations in accordance with Section 3.02 of the project specifications. We would like the ability to dig test hole with a backhoe or small excavator.
RESPONSE 16.	The approving Agency would not allow prospective bidders to perform additional site investigations. A summary of the available groundwater data taken from the monitoring wells at Rancho San Antonio is provided as ATTACHMENT 4 of this Addendum No. 5 for Contractor's information only.
QUESTION 17.	<p>The insurance requirements for the project cannot be met, please see attached letter from insurance carrier Wells Fargo. Please advise.</p> <p>1) 13.16.02.H. There is no occurrence based Professional Errors and Omissions Liability insurance product available to any contractor nor design professional. All Professional Errors and Omissions Liability insurance policies are written on claims made basis.</p> <p>2) 13.16.02.D. Currently there is no availability of admitted insurance for Professional Errors and Omissions Liability.</p>
RESPONSE 17.	<p>1) See Addendum No. 5, Article 13.16.02.</p> <p>Article 13.16.02 General Requirements</p> <p>REPLACE the last sentence of Paragraph H.:</p> <p>"Claims-made coverage is not allowed with the exception of Professional Errors and Omissions Liability."</p> <p>2) Article 13.16.02.D is a requirement from our General Counsel's office.</p>
QUESTION 18.	Addendum 4 includes dewatering plans for reaches of creek where we are not working? We should only bid the dewatering systems on sheets C-11, and C-12?
RESPONSE 18.	Correct. The dewatering plans were prepared for the environmental resource agencies and included information for all elements of the Permanente Creek Flood Protection Project. For this bid, please only consider the information for the Rancho San Antonio element.

THIS ADDENDUM NO. 5, WHICH CONTAINS 14 PAGES AND 4 ATTACHMENTS, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.



Christopher Hakes, P.E.
acting for
Melanie Richardson, P.E.
Deputy Operating Officer
Watershed Design and Construction Division

Date: 8/26/16

Enclosure(s):

ATTACHMENT 1: BID FORM NO. 1 (REV 2) Proposal Form and Bid Items

ATTACHMENT 2: California Department of Fish and Wildlife 1602 Streambed Alteration Agreement
(Date Revised: July 26, 2016)

ATTACHMENT 3: Revised Plan Sheets D-1, D-2, D-3, D-4, C-1, C-2, C-13, C-21, L-03A, L-03B, L-04, L-05, L-07, L-08A, and L-16

ATTACHMENT 4: Monitoring Well Summary Table

**PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN**

ADDENDUM NO. 5

ATTACHMENT 1:

BID FORM NO. 1 (REV 2) Proposal Form and Bid Items



*This form must be completed in **ink** and changes must be **initialed**.*

Honorable Board of Directors
 Santa Clara Valley Water District (District)

Pursuant to, and in compliance with, the Notice to Bidders and the Contract Documents, relating to the **PERMANENTE CREEK FLOOD PROTECTION PROJECT-RANCHO SAN ANTONIO DETENTION BASIN**, the undersigned Bidder having become thoroughly familiar with the terms and conditions of the Contract Documents and with local conditions affecting the performance and costs of the Work and having fully inspected the Work site in all particulars, hereby proposes and agrees to fully perform the Work, including providing any and all labor and materials and performing all Work required to construct and complete said Work within the contract time stated and in accordance with the requirements of the Contract Documents, for the following sum of money.

The undersigned Bidder agrees to complete all the Work within **1,892** calendar days from the first chargeable day of the Contract, as stated in the Notice to Begin Work. The Bidder agrees to enter into a Contract with the District and provide the required bonds and insurance in accordance with Articles 4.03. & 4.04. of the Standard Provisions. If the Bidder fails to meet these requirements within the time specified in Article 4.04 of the Standard Provisions the Bidder's security accompanying this Proposal may be forfeited and become the property of the District. No Contract exists until all Contract bonds and insurance documents have been accepted by the District.

TOTAL BID: \$ _____

Bidder acknowledges receipt of the following Addenda to the Bid Documents:
 Addenda are posted online at www.valleywater.org/Programs/Construction.aspx.

NO Addenda received

Addenda received as follows:

Addendum No. _____	Date _____	Addendum No. _____	Date _____
Addendum No. _____	Date _____	Addendum No. _____	Date _____

Failure to acknowledge receipt of an Addendum on the Bid Form is not, in itself, cause for withdrawal or rejection of Bid, if it can be established that Bidder did, in fact, receive such Addendum prior to Bid opening.

The undersigned Bidder has read and understands, and will comply with, each and all of the requirements specified in these Bid Documents.

BIDDER'S COMPANY INFORMATION	
NAME:	ADDRESS:
CONTRACTOR'S CALIFORNIA LICENSE NUMBER:	
DATE OF EXPIRATION:	
LICENSE CLASSIFICATION(S):	
PHONE No.: ()	FAX No.: ()
EMAIL ADDRESS:	

SIGNATURE BLOCK (Signature Block must be completed in <i>ink</i> and changes must be <i>initialed</i>.)	
Bidder's Signature:	Date:
Bidder's Name and Title (Print):	



*This form must be completed in **ink** and changes must be **initialed**.*

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
1	Professionally-facilitated Project Partnering	<u>Lump Sum</u> Lump Sum		
2	Vibration Monitoring	<u>Lump Sum</u> Lump Sum		
3	Spillage and Dust Control	<u>Lump Sum</u> Lump Sum		
4	Compliance with NPDES General Permit	<u>Lump Sum</u> Lump Sum		
5	Migratory Birds	<u>Lump Sum</u> Lump Sum		
6	Mobilization / Demobilization	<u>Lump Sum</u> Lump Sum		
7	Preservation (ESA) Fence Riparian Area	<u>1,510</u> Linear Feet		
8	Tree Protection Fence	<u>1,200</u> Linear Feet		

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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
9	Temporary Visual Screening Fence	5,000 Linear Feet		
10	Temporary Silt Fence	1,500 Linear Feet		
11	Temporary Fiber Roll	24,540 Linear Feet		
12	Exclusion Fence (Animal Exclusion)***	10,155 Linear Feet		
13	Clearing and Grubbing	Lump Sum Lump Sum		
14	Remove Tree	120 Each		
15	Remove Concrete Box Culvert and Wing Walls	Lump Sum Lump Sum		
16	Remove Asphalt Concrete and Base	33,700 Square Feet		

****Potential Bidders shall note that the Exclusion Fence (Animal Exclusion) fence quantity in the Bid Schedule is greater than that shown on the current plans. Animal Exclusion fence shall be extended to include Haul Route to UPRR tracks and to surround South Basin. Bidders shall use Bid Schedule quantity.*



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
17	Remove Gravel and Base	22,501 Square Feet		
18	Remove Curb Opening	Lump Sum Lump Sum		
19	Remove Wood Curb and Parking Bumpers	Lump Sum Lump Sum		
20	Remove AC Curb and Concrete Bumpers	Lump Sum Lump Sum		
21	Relocate Wood Fence All Types	2,805 Linear Feet		
22	Relocate Locking Gate	1 Each		
23	Relocate Farm Gate and Equestrian Gate	1 Each		
24	Relocate Signs	Lump Sum Lump Sum		
25	Relocate Foldable Bollard	1 Each		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
26	Temporary Cemetery Maintenance Access Road	<u>Lump Sum</u> Lump Sum		
27	Hammond-Snyder House Documentation	<u>Lump Sum</u> Lump Sum		
28	Haul Route Preparation/Restoration	<u>Lump Sum</u> Lump Sum		
29	Allowance for UPRR Crossing Restoration	<u>Lump Sum</u> Lump Sum	\$25,000	\$25,000
30	Dewatering (Control of Water)	<u>Lump Sum</u> Lump Sum		
31	Basin Excavation and Grading	<u>188,799</u> Cubic Yards		
32	Basin Excavation - Phytosphora Impacted	<u>3,276</u> Cubic Yards		
33	Finish Grading of Slopes	<u>13</u> Acre		
34	Remove and Stockpile Soil	<u>8,445</u> Cubic Yards		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
35	Soil Placement	<u>8,040</u> Cubic Yards		
36	Place Embankment (Engineered Fill)	<u>29,700</u> Cubic Yards		
37	Class 2 Aggregate Base	<u>2,510</u> Cubic Yards		
38	Class 3 Aggregate Base	<u>970</u> Cubic Yards		
39	Rock Slope Protection (Facing, Method B)	<u>8</u> Cubic Yards		
40	Rock Slope Protection (Light, Method B)	<u>140</u> Cubic Yards		
41	Rock Slope Protection (1/4 TON, Method B)	<u>260</u> Cubic Yards		
42	Rock Slope Protection, Rock Wiers (1/4 TON, Method A)	<u>18</u> Cubic Yards		
43	Geotextile Fabric	<u>2,857</u> Square Yards		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
44	Monolithic Curb and Gutter and Valley Gutter	46 Linear Feet		
45	Flush PCC Curb (edge block) in Parking lot	765 Linear Feet		
46	Flush PCC Curb (edge block) in Parking lot Restroom Walkway and sidewalk	350 Linear Feet		
47	Install Wheel Stops	59 Each		
48	Septic Tanks and Effluent Pump Station Tank	Lump Sum Lump Sum		
49	Effluent Pump System	Lump Sum Lump Sum		
50	Plastic (PVC) Pressure Pipe	175 Linear Feet		
51	Plastic (PVC) Sewer Pipe	130 Linear Feet		
52	At-Grade System	Lump Sum Lump Sum		

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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
53	Restroom Building	<u>Lump Sum</u> Lump Sum		
54	1-1/2 inch PVC Pipe	<u>345</u> Linear Feet		
55	2 inch PVC Pipe	<u>1,580</u> Linear Feet		
56	4 inch PVC Pipe	<u>1,080</u> Linear Feet		
57	1-1/2 inch Water Service	<u>1</u> Lump Sum		
58	Traffic Control	<u>Lump Sum</u> Lump Sum		
59	UPRR Coordination - Flagging	<u>Lump Sum</u> Lump Sum		
60	Traffic Striping	<u>5,175</u> Linear Feet		
61	Pavement Markings	<u>1,220</u> Square Feet		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
62	Foldable Bollards	<u>2</u> Each		
63	Concrete Barrier Type 732	<u>134</u> Linear Feet		
64	Concrete Barrier Type 60S	<u>30</u> Linear Feet		
65	Metal Beam Guard Rail	<u>400</u> Linear Feet		
66	Asphalt Concrete Type A	<u>1,415</u> Ton		
67	Place AC Dike	<u>1,931</u> Linear Feet		
68	Open Graded Asphalt Concrete	<u>467</u> Ton		
69	Class 2 Permeable Aggregate Base	<u>175</u> Cubic Yards		
70	Stabilized Aggregate Pavement	<u>5,300</u> Square Feet		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
71	Armoring Aggregate	<u>320</u> Cubic Yards		
72	1/2 Inch Crushed Aggregate	<u>52</u> Cubic Yards		
73	2 Inch Crushed Aggregate	<u>653</u> Cubic Yards		
74	12 Inch Reinforced Concrete Pipe	<u>270</u> Linear Feet		
75	North Basin Inlet Pipe - 84" CMP	<u>1,438</u> Linear Feet		
76	North Basin Outlet Pipe - 24" CMP	<u>234</u> Linear Feet		
77	South Basin Inlet Pipe - 36" CMP	<u>28</u> Linear Feet		
78	South Basin Outlet Pipe - 24" CMP	<u>215</u> Linear Feet		
79	36 Inch Corrugated Steel Pipe (CSP) Riser	<u>28</u> Linear Feet		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
80	12 ft x 6 ft Concrete Box Culvert	<u>Lump Sum</u> Lump Sum		
81	Control Structure	<u>Lump Sum</u> Lump Sum		
82	Impact Stilling Basin Structure	<u>Lump Sum</u> Lump Sum		
83	Headwall w/wingwalls and Debris Rack	<u>Lump Sum</u> Lump Sum		
84	CMP Riser w/Debris Rack Cage	<u>Lump Sum</u> Lump Sum		
85	Drainage Inlet, Type G1 Drop Inlet	<u>6</u> Each		
86	Drainage Inlet, Type C-4 Inlet with Gallery	<u>1</u> Each		
87	Electrical - Irrigation Well	<u>Lump Sum</u> Lump Sum		
88	Electrical - Restroom Building Site	<u>Lump Sum</u> Lump Sum		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
89	Wood Fence Type 1	<u>660</u> Linear Feet		
90	Wood Fence Type 3	<u>2,115</u> Linear Feet		
91	Install Relocated Wood Fence Type 1	<u>785</u> Linear Feet		
92	Install Relocated Wood Fence Type 2	<u>766</u> Linear Feet		
93	Install Relocated Wood Fence Type 3	<u>1,255</u> Linear Feet		
94	Locking Gate	<u>2</u> Each		
95	Chain Link Fence and Gate, Type CL-6, With Lock	<u>50</u> Linear Feet		
96	Irrigation Well Construction	<u>Lump Sum</u> Lump Sum		
97	Irrigation Well Equipping	<u>Lump Sum</u> Lump Sum		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
98	Irrigation Well Abandon and Removal	<u>Lump Sum</u> Lump Sum		
99	Irrigation	<u>Lump Sum</u> Lump Sum		
100	Site Planting Preparation	<u>23.6</u> Acre		
101	Erosion Control Blanket	<u>8,266</u> Square Yards		
102	Bioretention Soils	<u>265</u> Cubic Yards		
103	Hydroseeding	<u>23.6</u> Acre		
104	Container Planting - Treepot and Deepot Planting (Riparian Mitigation, Frog Habitat)	<u>638</u> Each		
105	Container Planting - Treeband Planting (Seasonal Wetland)	<u>3,495</u> Each		
106	Container Planting - Shrub - 5 Gallon	<u>26</u> Each		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
107	Container Planting - Tree - 24 Inch Box Planting	9 Each		
108	Large Seed and Acorn Planting	79 Basin		
109	Cuttings	114 Each		
110	Establishment Maintenance - Parking Area	2 Month		
111	Establishment Maintenance - Hydroseed	6 Month		
112	Establishment Maintenance - Seasonal Wetland and Basin Slope (Maintenance and Watering)	3 Month		
113	Establishment Maintenance - Seasonal Wetland and Basin Slope (Maintenance Only)	33 Month		
114	Establishment Maintenance - Riparian and Frog Enhancement Habitat (Maintenance and Watering)	12 Month		
115	Establishment Maintenance - Riparian and Frog Enhancement Habitat (Maintenance Only)	24 Month		



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ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
116	Weed Control	<u>36</u> Month		
117	Irrigation System Operation and Maintenance	<u>12</u> Month		
118	Signage and Markers	<u>Lump Sum</u> Lump Sum		
119	2-1/2 inch PVC Pipe	<u>710</u> Linear Feet		
120	Temporary Noise Barrier	<u>1,600</u> Linear Feet		
121	Wood Fence Type 2	<u>410</u> Linear Feet		
TOTAL BASE BID				



*This form must be completed in **ink** and changes must be **initialed**.*

SUPPLEMENTAL BID ITEMS

These Bid Items may or may not be required. They may be deleted entirely or in part, by deductive change order(s), at the sole discretion of the District

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
1	Plant Replacement - Treepot/Deepot Plant Replacement	351 Each		
2	Plant Replacement - Large Seed/Acorn Replacement	43 Each		
3	Plant Replacement - Cutting Replacement	63 Each		
4	Plant Irrigation by Event - Riparian and Frog Habitat Areas	1 Event		
5	Plant Irrigation by Event - Seasonal Wetland	1 Event		
6	Plant Irrigation by Event - Basin Slope Plantings	1 Event		



*This form must be completed in **ink** and changes must be **initialed**.*

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY <hr style="width: 50%; margin: 0 auto;"/> UNIT	UNIT PRICE	TOTAL
7	Re-hydroseeding	0.5 <hr style="width: 50%; margin: 0 auto;"/> Acre		
TOTAL SUPPLEMENTAL BID				

TOTAL BID (Base Bid Subtotal + Supplemental Subtotal)	
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**PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN**

ADDENDUM NO. 5

ATTACHMENT 2:

**California Department of Fish and Wildlife 1602 Streambed
Alteration Agreement (Date Revised: July 26, 2016)**

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
BAY DELTA REGION
7329 SILVERADO TRAIL
NAPA, CALIFORNIA 94558
(707) 944-5500
WWW.WILDLIFE.CA.GOV



STREAMBED ALTERATION AGREEMENT
NOTIFICATION No. 1600-2013-0381-R3
PERMANENTE CREEK

Ms. MELANIE RICHARDSON
Permanente Creek Flood Protection Project

This Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Wildlife (CDFW) and the Santa Clara Valley Water District (Permittee), as represented by Melanie Richardson.

RECITALS

WHEREAS, pursuant to Fish and Game Code (FGC) section 1602, Permittee notified CDFW on September 23, 2013 that Permittee intends to complete the project described herein.

WHEREAS, pursuant to FGC section 1603, CDFW has determined that the project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, Permittee has reviewed the Agreement and accepts its terms and conditions, including the measures to protect fish and wildlife resources.

NOW THEREFORE, Permittee agrees to complete the project in accordance with the Agreement.

PROJECT LOCATION

The project is located along several portions of Permanente Creek and along a portion of Hale Creek, in Santa Clara County, in the State of California. Project elements will be constructed in the city of Mountain View along Permanente Creek from Trophy Drive to north of Amphitheatre Parkway, along Hale Creek from Arroyo Road to the confluence of Permanente Creek, and adjacent to Permanente Creek at McKelvey Park. Project elements will also be constructed in the city of Cupertino along Permanente Creek at Rancho San Antonio Park. Coordinates of the project extend from 37.423583/ -122.086396 (Mountain View U.S.G.S. Quadrangle Map – Township 6S, Range 2W, Section 28) to 37.329564/-122.085697 (Cupertino U.S.G.S. Quadrangle Map – Township 6S, Range 2W, Section 33). The project area is shown in Exhibit A.

PROJECT DESCRIPTION

The project includes several elements that will be constructed within the Permanente Creek watershed in the cities of Cupertino, Los Altos, and Mountain View. These elements include off-stream flood detention facilities at Rancho San Antonio County Park and McKelvey Park; channel improvements to concrete channels in selected portions of Permanente Creek and Hale Creek; a floodwall along Permanente Creek from U.S. Highway 101 to Charleston Road; construction of an embankment from Charleston Road to Amphitheatre Parkway; and raising an existing levee north of Amphitheatre Parkway.

Rancho San Antonio County Park Flood Detention Facility

The Rancho San Antonio County Park detention element (Exhibit B) will provide offstream flood storage at the upstream end of the project corridor. The facility will consist of a 91 acre-foot basin (referred to as the north basin) located on the east side of Permanente Creek and a smaller 13 acre-foot basin (referred as the south basin) located on the west side of Permanente Creek. The basins will be designed to capture flows greater than a 10-year event. The basins are expected to empty by gravity flow within approximately 1-4 days, although the swale in the bottom of the basin may hold water longer due to the fact that the detention area will continue to receive runoff from the adjacent neighborhood. An inlet structure will be constructed between the two basins in Permanente Creek and will replace an existing stream crossing. Flows in excess of the design flow will spill into the structure and be transmitted to the basins through inlet pipes. Outlets from each basin will return temporarily detained water back to the creek. The site will be accessed from Stevens Creek Boulevard using an existing maintenance road that is jointly used as the Hammond-Snyder Loop Trail.

North Basin Construction

Phytophthora spp. pathogens have been detected at the existing wetland located at the north basin excavation site. Therefore, all wetland vegetation and the top 20 inches of topsoil, including the removal of topsoil from an adjacent 25-foot buffer area surrounding the wetland area (approximately 3,000 CY in total), will be excavated and hauled off to a proper disposal site. After wetland vegetation and topsoils have been removed, excavation of the north basin will proceed. After clearing and grubbing the area using excavators, graders, loaders, and haul trucks, dewatering trenches and/or wells will be excavated at the perimeter of the north basin construction area.

An outlet for the north basin will be constructed using standard open cut trenching techniques. The trench will be constructed from the location of the north basin outlet headwall to the creek adjacent to the downstream side of the existing foot bridge. A 15-foot-wide corridor will be cleared of approximately 0.01 acre of riparian vegetation to accommodate trenching activities. A trench measuring approximately 230 feet in length and 3 feet in width will be excavated 9 to 13 feet in depth, removing 246 CY of soil. Suitable bedding material (e.g., sand) will be placed in the trench and 24-inch corrugated metal pipe will be installed on the bedding. At the point where the outfall daylights to the creek, geotextile fabric will be laid down and a 2-foot thick layer of

rock will be placed around the pipe in conformance with the existing slope, permanently covering 100 square feet of Permanente Creek. The trench will be backfilled with native material from the site and compacted to design specifications. Erosion protection (hydroseeding or erosion fabric) will be installed over disturbed soils at the top of bank.

The new basin will have a maximum depth of about 15 feet below existing ground surface. In total, 160,000 CY of soil will be excavated to create the 8-acre north basin. Approximately 20,000 CY of soil will be reused onsite for construction of the north basin, and approximately 10,000 CY of soil will be reused onsite for construction of the south basin and inlet structure.

The basin will be graded with gently sloped sides contoured for a natural appearance. Short berms up to 5 feet high with similarly natural slopes will fill in the low areas around the basins. The bottom of the north basin will be graded to create 0.9 acre of swales that will collect surface runoff, as occurs under existing conditions and retain water to saturate soils, and create conditions suitable for the establishment and persistence of native wetland vegetation.

At the recommendation of a certified professional soil scientist, the Permittee may salvage suitable moderate and low permeability soils (approximately 2,200 CY) from the top 0.5 to 1.5-foot layer of soil from other portions of the Rancho San Antonio site not testing positive for *Phytophthora* spp. pathogens. Appropriate native wetland species will be planted in the basin to provide immediate vegetative structure and enhance habitat value. To remove non-native weedy seedstock and to increase the likelihood of successful re-establishment of native annual grasses and other plantings, the Permittee may remove and haul offsite the top 3 inches (approximately 3,100 CY) of soil from selected upland areas of the site. Any areas of topsoil removal will be treated with a native hydroseed mix to prevent erosion.

To complete north basin outlet construction, a concrete headwall and wing walls will be constructed at the point where water begins to exit the outlet. Forms will be installed and 20 CY of concrete will be poured to form headwall and wing wall features. Upon the completion of concrete curing, the forms will be disassembled and removed. A debris rack will be installed over the headwall.

Inlet Structure and South Basin Construction

After clearing and grubbing, the inlet site will be excavated and graded using excavators, compactors, and haul trucks. A 24-inch layer of compacted aggregate base material will be placed in approximately 15 linear feet of the Permanente Creek channel to create an adequate foundation for a new culvert. A single 12-foot wide by 6-foot tall by 15-foot long, pre-cast concrete culvert will be installed on the base material using cranes and other heavy equipment. The culvert will serve as a temporary stream crossing while construction of the inlet structure continues. A temporary, unpaved, 12-foot wide maintenance access road will be constructed over the new culvert and up to existing paved access roads on both sides of the creek.

With the temporary stream crossing and maintenance access road in place, the existing culvert providing access to Gate of Heaven Cemetery maintenance facilities on the

western side of the creek will be demolished and removed using jack hammers, excavators, and haul trucks. Removed material will be loaded into dump trucks and hauled away for offsite disposal.

Crews will continue grading the inlet structure area and Permanente Creek to design specifications. An additional 21 linear feet of 24-inch deep compacted aggregate base material will be installed in Permanente Creek. An additional 21 linear feet of 12-foot wide by 6-foot tall pre-cast concrete culvert will be installed on the base material. The 21-foot long culvert will extend the 15-foot long culvert already installed, creating a total permanent culvert length of 36-linear feet.

A new 18-foot wide permanent maintenance road will be constructed over the newly installed stream crossing. The maintenance road will be constructed on compacted engineered fill, 6 inches of subgrade, and 8.5 inches of aggregate base material. A section of the 84-inch corrugated metal pipe will be installed under the maintenance access road on the eastern side of the creek, outside the riparian corridor. The 84-inch pipe segment will eventually connect the inlet weir control structure to the north basin.

The maintenance road will continue in a northerly direction roughly parallel to the riparian corridor on the western side of the creek. Engineered fill will be compacted to create a berm that will serve as the south basin embankment. The maintenance road will be realigned to the top of the south basin embankment. The south basin embankment will have a 24-foot crest width and be constructed to a maximum height of 8-feet above existing ground surface. A 0.7-acre portion of the south basin will be excavated to create adequate storage volume in the south basin. Approximately 1,200 CY of soil will be excavated to create a low point in the south basin. All basin slopes will be graded to drain to the low point without ponding.

With a new maintenance road in place, a concrete weir control structure will be constructed on top of the 15-foot long pre-cast concrete culvert section. The concrete weir control structure will divert flows higher than approximately the 10-year event to the north and south basins. Water will back up behind the concrete box culvert entrance and weir control structure until 10-year flows spill into an open, slotted gap at the top of the weir control structure. The weir control structure will span a distance of 150 linear feet in an "L"-shape across Permanente Creek. Concrete forms will be installed to create the new, approximately 10-foot square, weir control structure. Concrete forms will also be installed to create new wing wall transitions at both ends of the culvert. The wing walls will transition to natural banks approximately 13-15 linear feet upstream and 24 linear feet downstream of the concrete culvert. With forms in place, concrete trucks will pump concrete into the completed forms. Upon the completion of concrete curing, the forms will be disassembled and removed.

Crews will connect the weir control structure to the already constructed section of the 84-inch corrugated metal pipe. The 84-inch corrugated metal pipe will be continued between the new weir structure and the new north basin. The north basin inlet pipe will be installed in a 30-foot wide by 15-foot deep trench traveling 1,430-linear feet roughly parallel to the creek riparian corridor. A concrete impact stilling basin will be constructed at the end of the north basin inlet pipe. Similar to basin outfalls to the

creek, rock features will be constructed at the terminus of the north basin inlet pipe to provide scour protection.

A 36-inch corrugated metal pipe will be installed as an inlet from the weir control structure to the south basin. Similar to the basin outfalls, rock features will be constructed at the terminus of the south basin inlet pipe to provide scour protection.

With the inlet control structure installed, the area around the inlet structure and south basin will be finish graded to match the contours of the existing surroundings. Loaders and other earth moving equipment will be used to complete final grading. Stream contours will be returned to their original condition at the end of project activities.

South Basin Outlet Construction

The south basin will be constructed by the construction of the embankment and excavation described above. An outlet for the south basin will be constructed using standard open cut trenching techniques. A trench measuring approximately 215 feet in length and 3 feet in width will be excavated about 5 feet in depth below existing ground surface. Suitable bedding material (e.g., sand) will be placed in the trench and 24-inch corrugated metal will be installed on the bedding. The trench will be backfilled with native material from the site and compacted to design specifications.

Approximately 0.03 acre of riparian vegetation will be cleared to accommodate trenching activities. Construction of the south basin outfall will permanently modify 100 square feet of Permanente Creek. The excavator will be used to excavate 10 CY of soil from the creek bank and channel to prepare the site for outfall slope protection measures. Geotextile fabric will be laid down and a 2-foot thick layer of rock will be placed around the pipe outfall in conformance with the existing slope. Soil cover will be placed along about 25 feet of pipe at the outlet terminus to provide a minimum of 18 inches of protective cover. The additional protective cover will be sloped to conform to the surrounding creek bank. Erosion protection will be installed over disturbed soils at the top of bank.

To complete south basin outlet construction, a 6-foot tall debris rack with 4-inch maximum bar spacing will be installed on the corrugated metal pipe.

McKelvey Park

An offstream flood detention basin will be constructed at a 5-acre baseball facility located at the City of Mountain View's McKelvey Park (Exhibit C). To construct the new detention basin, existing facilities will be taken out of use, the entire park will be excavated and lowered, and the playing fields will be restored at the new ground level. Flows greater than the 50-year event will spill over a weir (a lowered section of wall), then into an energy dissipation area constructed on a parcel adjacent to McKelvey Park, and then into the 15-18-foot deep detention area for temporary storage. Once the flood peak passes, the stored flood flows will drain back to Permanente Creek by pumping. Low-flow pumps will be installed below grade in a deep, wet well on the adjacent property.

To construct the basin, approximately 90,000 CY of soil will be excavated and hauled

away for offsite disposal. Concrete forms and sheet/soldier piles will be installed to create retaining walls, an energy dissipation area, and other concrete features around the basin perimeter. An overflow weir will be designed to accommodate the detention basin inlet and outlet. The weir will be composed of a sheet/soldier pile wall on the park side (outboard face) and a concrete wall that will constitute the eastern side of the main channel. The two walls will be tied together with a weir cap. An access ramp leading to the bottom of the detention basin will be constructed next to the weir. The energy dissipation area will connect to the detention basin at the base of the new concrete access ramp, under a pedestrian bridge.

Channel Improvements – Permanente Creek and Hale Creek

Permanente Creek channel improvements (Exhibit C) will involve deepening and enlarging the existing U-shaped concrete channel from Mountain View Avenue to the confluence with Hale Creek. Hale Creek channel improvements (Exhibit C) will involve replacing 615 linear feet of existing concrete channel upstream from the confluence of Permanente Creek with a vertical-walled concrete channel. Both channel's cross-section and flood conveyance capacity will be substantially increased. The depth and width along the improved channel will vary estimated between 0 to 2 feet deeper and 0 to 10 feet wider than the existing channel. The Hale Creek Mountain View Avenue culvert will be replaced. The site will be accessed using existing access ramps at Mountain View Avenue crossings over both creeks (near Ernestine Lane and Raymundo Avenue), and an existing access ramp at Arroyo Avenue.

Concrete Channel Construction

Two cofferdams will be installed just upstream of the work area. One cofferdam will be installed upstream of the Permanente Creek project area, and a second cofferdam will be installed upstream of the Hale Creek project area. Flow will be diverted 1,600 linear feet downstream of the Permanente Creek cofferdam, and 2,500 linear feet downstream of the Hale Creek cofferdam. The cofferdams will be approximately 12 feet long, 20 feet wide and 7 feet high (30 CY each) and composed of appropriate materials (gravel or sandbags) or similarly dimensioned inflatable dam. Screened pumps will be installed on the upstream side of the cofferdams, with appropriately sized pipes or hoses to convey the flow around the work area and release the flow in Permanente Creek downstream of the site.

After creek flow has been eliminated from the site, crews will begin clearing the concrete channel within the active area. Approximately 1,815 feet of concrete channels (from station 251+14 of Permanente Creek to the Hale Creek confluence and for Hale Creek from its confluence with Permanente Creek to station 6+15 upstream of Mountain View Avenue) will be excavated and removed using concrete saws, jack hammers, backhoes or excavators, and haul trucks. Removed material will be loaded directly into waiting dump trucks and hauled away for offsite disposal.

As concrete sections of channel are demolished and removed, soldier pile or similar shoring will be installed consistent with applicable safety standards and requirements. For the concrete channel length from station 251+14 to station 262+30 (near Hale Creek confluence), the west bank of the channel will be left in place and supported with

steel I-beams and braces to shore the west bank, while the east bank will be sloped back.

Channel improvements will include new concrete channels cast in place with concrete walls gradually increasing up to 7 feet above adjacent ground near the 935 Mountain View Avenue property. A 7-foot-high headwall will also be constructed on the upstream side of the Permanente Creek Mountain View Avenue culvert (near Ernestine Lane). Channel improvements adjacent to McKelvey Park will tie into already constructed features of the detention facility.

With shoring in place, crews will excavate and grade the channel to design specifications using backhoes or excavators, compactors, and haul trucks. Approximately 12 inches of permeable base material (600 CY total) will be placed to create the proper channel foundation. Concrete forms will be installed to create the new channel invert and walls. With forms in place, concrete trucks will pump 1,200 CY of concrete into the completed forms. About 600 CY of concrete will be placed below the ordinary high water mark. Upon the completion of concrete curing, the forms will be removed, and 1,200 CY of soil will be used to backfill behind the new concrete walls.

Additionally, separation walls will be installed at existing access ramps on Permanente Creek at Mountain View Avenue (about 35 linear feet), Hale Creek at Mountain View Avenue (one separation wall on each access ramp at either side of Mountain View Avenue totaling about 80 linear feet), and Hale Creek at Arroyo Road (about 25 linear feet). These separation walls will consist of steel I-beams imbedded into the channel bottom in between which removable wooden or metal sheet flashboards will be installed. The purpose of these separation walls will be to separate the creek flow area from maintenance ramp areas in order to prevent hydraulic losses due to the latter's expansion in flow area.

Culvert Replacement

Concurrent with concrete channel construction, the Mountain View Avenue culvert on Hale Creek will be replaced. The existing concrete box culvert will be demolished and removed using concrete saws, jack hammers, backhoes or excavators, and haul trucks. Removed material will be loaded directly into waiting dump trucks and hauled away for offsite disposal. In total, 200 CY of soil and concrete debris will be removed from the site.

With shoring in place, crews will excavate and grade the channel to design specifications using backhoes or excavators, compactors, and haul trucks. About 12 inches of permeable base material (90 CY total) will be placed to create the proper culvert foundation. A double 9-foot by 6.5-foot, pre-cast concrete culvert (90 CY of concrete) will be installed using cranes and other heavy equipment.

All utilities affected by the culvert construction will be replaced. This includes the existing City of Los Altos sanitary sewer line, a City storm drain outfall and the associated storm drain pipe connecting to a manhole, PG&E gas pipe, and Calwater water pipe in the street. Wing wall transitions between adjacent concrete channel walls and the new concrete double box culvert will be completed as part of the concrete

channel construction activities described above.

Channel Smoothing

Concurrent with concrete channel construction, a concrete grinder will be used to grind the irregular concrete channel bottom 80 linear feet downstream of the Mountain View Avenue culvert on Permanente Creek. Minimal quantities (less than 5 CY) of concrete will be selectively applied, and trowels will be used to finish the concrete into a smooth channel.

Floodwall (Highway 101 to Charleston Road)

This project element (Exhibit D) will entail installation of a new 1,335-foot-long floodwall on the existing levee along the western side of Permanente Creek, from U.S. Highway 101 north (downstream) to Charleston Road. The floodwall will be constructed on the outboard (land) side of the levee crest and will extend 2 to 4 feet above the existing crest elevation. The floodwall will also extend several feet below the levee crest. The construction site will be accessed using the existing maintenance road.

The Permittee will excavate approximately 500 CY of soil in a trench-like fashion from the outboard side of the levee to construct floodwall footings. Forms for concrete work will be installed, and 350 CY of concrete will be poured. After the concrete has adequately cured, the footing will be backfilled with about 250 CY of suitable material and appropriately compacted. Equipment used to construct the floodwall will include a backhoe, dump truck, concrete truck, and compactor.

Embankment

From Charleston Road to Amphitheatre Parkway, a dry swale on the west side of the channel between the existing levee and the adjacent corporate building will be filled with approximately 1,200 CY of soil to create an embankment (Exhibit D). The embankment will serve to prevent flooding of the adjacent building. This work will include removal and replacement of an existing asphalt-paved walkway and the filling and compaction of six storm drain inlets within the dry swale.

Levee Raising (north of Amphitheatre Parkway)

This project element (Exhibit D) will entail the raising of an existing levee along the western side of Permanente Creek, north (downstream) of Amphitheatre Parkway. The levee will be raised 2-3 feet in height with the work done on the crest and outboard side of the existing levee. The construction site will be accessed using the existing maintenance road.

After clearing and grubbing the 505-linear foot project area, the Permittee will excavate and remove the top 6 inches of soil on the levee crest, 2-foot benches down the outboard side of the levee, and the upper 3 feet of topsoil at the outboard toe of the levee. In total, about 600 CY of soil will be removed and stockpiled for reuse onsite. The Permittee will scarify and compact the upper 6 inches of the levee. Soil will then be added to the benches and compacted to generally reform the levee. After compaction is complete, the levee will be trimmed to remove excess material and finish the levee crest and slopes to design specifications. The raised levee crest will measure 12-feet

across. A total of 2,500 CY of soil will be used to raise the levee. Equipment used to raise the levee will include a backhoe, dump truck, and compactor.

PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include: The Federally Threatened Central California Coast steelhead (*Oncorhynchus mykiss*); the Federal Candidate and State Threatened longfin smelt (*Spirinchus thaleichthys*); the Federally Threatened and State Species of Special Concern California red-legged frog (CRLF) (*Rana draytonii*) and green sturgeon (*Acipenser medirostris*); the State Fully Protected white-tailed kite (*Elanus leucurus*); the State Threatened and Fully Protected California black rail (*Laterallus jamaicensis coturniculus*); the Federally and State Endangered and State Fully Protected salt marsh harvest mouse (SMHM) (*Reithrodontomys raviventris*) and Ridgway's rail (RR) (*Rallus obsoletus*); the State Species of Special Concern northern harrier (*Circus cyaneus*), saltmarsh common yellowthroat (*Geothlypis trichas sinuosa*), burrowing owl (BUOW) (*Athene cunicularia*), foothill yellow-legged frog (FYLF) (*Rana boylei*), western pond turtle (WPT) (*Actinemys marmorata*), American badger (*Taxidea taxus*), pallid bat (*Antrozous pallidus*), salt marsh wandering shrew (*Sorex vagrans halicoetes*), and San Francisco dusky-footed woodrat (*Neotoma fuscipes annectens*); native and non-native fish species; and nesting birds.

Existing plant resources the project could substantially adversely affect include: the California Native Plant Society (CNPS) 1B.1 Congdon's tarplant (*Centromadia parryi* ssp. *condonii*); CNPS 1B.2 alkali milk-vetch (*Astragalus tener* var. *tener*), San Joaquin spearscale (*Atriplex joaquiniana*), Point Reyes bird's beak (*Cordylanthus maritimus* ssp. *palustris*), western leatherwood (*Dirca occidentalis*), and saline clover (*Trifolium depauperatum* ssp. *hydrophilum*); the CNPS 1A hairless popcorn flower (*Plagiobothrys glaber*); and the Federally Endangered and CNPS 1B.1 California seablite (*Suaeda californica*).

The adverse effects the project could have on the fish or wildlife resources identified above, without implementation of the Measures to Protect Fish and Wildlife Resources specified below, include: permanent loss of natural bed or bank; change in the contour and/or gradient of the bed, channel or bank; channel profile widening; loss of bank stability during construction; increased bank erosion; accelerated channel scour; increased turbidity; changes in pH; short-term release of contaminants; short-term changes in dissolved oxygen, water temperature, and stream flow; changes in stream flow; diversion of flow around activity site; dryback of stream channels; loss or decline of riparian habitat; semi-permanent or permanent loss of wetland vegetation; permanent decline in vegetative diversity; colonization by exotic plant species; disturbance or mortality of aquatic and semi-aquatic fish and wildlife species; disturbance to terrestrial animal species; and disturbance to nesting birds.

CDFW defines temporary impacts as those impacts where habitat at the impact site can be fully restored to pre-project conditions, values, and functions within one year of impact. CDFW defines semi-permanent impacts as those impacts where habitat at the impact site can be fully restored to pre-project conditions, values, and functions within

two years of impact. CDFW defines permanent impacts as those impacts where habitat at the impact site either cannot be restored, due to permanent removal of habitat, or where habitat at the impact site will require greater than two years to be restored to pre-project conditions, values, and functions relative to time of impact.

Exhibit E shows the anticipated impacts to wetlands, creek channels, and riparian habitat in the project area and the associated onsite compensatory mitigation, according to each construction element (note that Exhibit E only identifies impacts as temporary or permanent). Work activities at the Rancho San Antonio detention facility will result in approximately 0.03 acres of permanent impacts and 0.05 acres of temporary impacts to the Permanente Creek channel; approximately 0.42 acres of semi-permanent or permanent impacts to seasonal wetland (depending on restoration time required to achieve pre-project conditions or better, as described above); approximately 0.021 acres of temporary impacts to wetland drainage channels; and approximately 0.04 acres of permanent impacts and 0.57 acres of temporary impacts to riparian habitat along Permanente Creek. Channel improvements, including the inlet and outlet work associated with the McKelvey Park detention facility, will result in approximately 0.20 acres of temporary impacts to the Permanente Creek channel. Channel improvements will result in approximately 0.13 acres of temporary impacts to the Hale Creek channel.

Per Table 5 of the Biological Assessment (dated February 2016), once construction of the Rancho San Antonio project element is complete, the project will provide 1.95 acres of additional suitable annual grassland, seasonal wetland, and valley foothill riparian habitat for CRLF. Exhibit F shows that the Rancho San Antonio element will permanently impact approximately 0.07 acres of CRLF aquatic habitat, and temporarily impact approximately 17.79 acres of suitable CRLF habitat (defined as 16.72 acres of upland habitat, and 1.07 acres of aquatic habitat, per Table 6 of the 2016 Biological Assessment).

Exhibit G (Table 8B, provided to CDFW on June 22, 2016) shows the tree species in each project element (including trunk diameter range) that will be removed by project activities (61 trees total).

MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

1. Administrative Measures

Permittee shall meet each administrative requirement described below.

- 1.1 Documentation at Project Site. Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all times and shall be presented to CDFW personnel, or personnel from another state, federal, or local agency upon request.

- 1.2 Providing Agreement to Persons at Project Site. Permittee shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons who will be working on the project at the project site on behalf of Permittee, including but not limited to contractors, subcontractors, inspectors, and monitors.
- 1.3 Notification of Conflicting Provisions. Permittee shall notify CDFW if Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, CDFW shall contact Permittee to resolve any conflict.
- 1.4 Project Site Entry. Permittee agrees that CDFW personnel may enter the project site at any time to verify compliance with the Agreement.
- 1.5 Notification of Commencement and Completion of Work. Permittee shall notify CDFW within 5 working days of beginning work and within 5 working days of completion of work within the stream channels for each construction season covered in this Agreement. Notification shall be made to Tami Schane, Environmental Scientist, by email (tami.schane@wildlife.ca.gov) or by phone (415) 831-4640.
- 1.6 Final Plans and Specifications. Permittee shall provide final construction plans and specifications to CDFW prior to construction. Permittee shall notify CDFW of any modifications to the project description as stated above. At the discretion of CDFW, project modifications may require an amendment or a new Streambed Alteration Agreement.
- 1.7 Unauthorized Take. This Agreement does not authorize the take, including incidental take, of any State or federally listed threatened or endangered species, or of species that are otherwise protected under FGC. Permittee may be required, as prescribed in the California and U.S. Endangered Species Acts, to obtain take coverage for State and federally listed species prior to commencement of the project. Any unauthorized take of listed species may result in prosecution and nullification of this Agreement.

2. Avoidance and Minimization Measures

To avoid or minimize adverse impacts to fish and wildlife resources identified above, Permittee shall implement each measure listed below.

- 2.1 Dewatering Work Period. Dewatering activities shall be restricted to the section of Permanente Creek located within Rancho San Antonio Park and at the channel improvements in Permanente Creek and Hale Creek. Dewatering activities shall not be necessary for work at McKelvey Park, or along the floodwall, embankment, or levee work at the downstream portion of the project area (downstream of U.S.

Highway 101) and are not authorized under this Agreement. Dewatering activities shall begin no earlier than May 1 and extend no later than October 15 for each work season during the term of this Agreement.

- 2.2 Work Period. Work within the bed, bank, channel, and associated riparian habitat shall be confined to the period between May 1 and October 15. Revegetation work in a given reach is not confined to this work period but shall be completed by December 31 within the wet season following completion of the project in that reach. An extension for revegetation work to January 15 due to low rainfall or other unfavorable conditions at the site may be granted by CDFW.
- 2.3 Work Period Modification. If Permittee needs more time to complete Project activities, work may be authorized outside of the work period and extended on a day-to-day basis by contacting Tami Schane, Environmental Scientist, by email (tami.schane@wildlife.ca.gov) or by phone (415) 831-4640, or the CDFW Bay Delta Regional Office by mail, or by phone (707) 944-5500.

If Permittee requests a work period extension, Permittee shall submit such a request in writing to the CDFW Bay Delta Regional Office. The request shall: i) describe the extent of work already completed; ii) detail the activities that remain to be completed; iii) detail the time required to complete each of the remaining activities; and iv) provide photographs of both the current work completed and the proposed site for continued work. The work period variance shall be issued at the discretion of CDFW. CDFW reserves the right to require additional measures to protect biological resources as a condition for granting the variance. CDFW shall have 10 calendar days to review the proposed work period variance.

- 2.4 Precipitation Forecasts. Precipitation forecasts shall be considered when planning construction activities. Construction activities shall cease and all necessary erosion control measures shall be implemented prior to the onset of substantial precipitation defined as 0.5 inch or more within a 24-hour period. Construction activities that are halted due to precipitation may resume when precipitation ceases and the National Weather Service 72-hour weather forecast indicates a 20% or less chance of precipitation. Weather forecasts shall be documented upon request by CDFW.
- 2.5 Dewatering Methods. Work shall be performed in isolation from the flowing stream. The entire stream flow shall be diverted around the project work area using water-tight coffer dams and piping consistent with the dewatering plan dated March 2015, and received by CDFW as Appendix K in the submittal of additional information via email on April 7, 2015, unless otherwise conditioned herein. All coffer dams shall be composed of gravel-filled sandbags, as described in Appendix K of the additional information submitted April 7, 2015. Sand-filled bags shall not be used at any time within the limits of the stream channel. Upon removal of the water diversion system, flows shall be gradually restored to the channel in a manner that avoids an erosive surge of water. Permittee shall submit a final

dewatering plan to CDFW for review and approval a minimum of 30 days prior to beginning of project dewatering activities.

- 2.6 No Equipment in Wetted Areas. Equipment shall not be operated in wetted areas, including but not limited to ponded, flowing, or wetland areas (except in the basin footprint at Rancho San Antonio), or within the live stream channel below the level of top-of-bank.
- 2.7 Erosion Control. Erosion control measures shall be utilized throughout all phases of the project where sediment runoff from exposed slopes threatens to enter any stream channels. At no time shall silt laden runoff be allowed to enter any stream channels. To protect exposed soils from erosion during discharges, erosion control blankets, mats, or geotextiles shall be placed over the erodible surfaces. Any erosion control materials used within the stream channels during discharges shall be removed immediately upon completion of water discharges. No erosion control materials shall contain any plastic or monofilament netting.
- 2.8 CDFW-Approved Qualified Biologist(s) and Monitor(s). Permittee shall submit to CDFW for written approval, the names and resumes of all qualified biologists and biological monitors involved in conducting surveys and/or monitoring work.

A qualified biologist is an individual who shall have a minimum of five years of academic training and professional experience in biological sciences and related resource management activities with a minimum of two years conducting surveys for each species that may be present within the project area.

A biological monitor is an individual who shall have academic and professional experience in biological sciences and related resource management activities as it pertains to this project, experience with construction-level biological monitoring, be able to recognize species that may be present within the project area, and be familiar with the habits and behavior of those species.

- 2.9 Nesting Bird Surveys. If construction, grading, or other project-related improvements are scheduled during the nesting season of protected raptors and migratory birds from January 15 to September 1, a focused survey for active nests of such birds shall be conducted by a qualified biologist within fourteen (14) days prior to the beginning of project-related activities. The results of the survey shall be sent to Tami Schane, Environmental Scientist, by email (tami.schane@wildlife.ca.gov) prior to the start of project activities. Refer to Notification Number 1600-2013-0381-R3 when submitting the survey results to CDFW. If an active nest is found, Permittee shall consult with the United States Fish and Wildlife Service (USFWS) and CDFW regarding appropriate action to comply with the Migratory Bird Treaty Act (MBTA) of 1918 and the FGC of California. If a lapse in project-related work of 15 days or longer occurs, another

focused survey and if required, consultation with CDFW and USFWS, shall be required before project work can be reinitiated.

- 2.10 Buffers. Active nests shall be designated as “Ecologically Sensitive Areas” and protected (while occupied) during project activities with the establishment of a fence barrier or flagging surrounding the nest site. If an active nest is found, the qualified biologist shall establish an appropriate buffer to be in compliance with the MBTA and Fish and Game Code 3503. The qualified biologist shall monitor the nesting birds and shall increase the buffer if the qualified biologist determines the birds are showing signs of unusual or stressed behavior by project activities. Abnormal nesting behaviors which may cause reproductive harm include, but are not limited to, defensive flights/vocalizations directed towards project personnel, standing up from a brooding position, and flying away from the nest in response to a disturbance. The qualified biologist shall have authority to order the cessation of all nearby project activities if the nesting birds exhibit abnormal behavior which may cause reproductive failure (nest abandonment and loss of eggs and/or young) until an appropriate buffer is established. Typical minimum distances of the protective buffers surrounding each identified active nest site is a 50-foot radius except for raptors, herons, and egrets; and a 300-foot radius around active nests for hawks, owls, herons, and egrets. All protective buffer zones shall be maintained, and no entrance shall be allowed into protective buffer zones, until the nest becomes inactive. If monitoring shows that disturbance of actively nesting birds is occurring, buffer widths shall be increased until monitoring shows that disturbance is no longer occurring. If this is not possible, work shall cease in the area until young have fledged and the nest is no longer active.
- 2.11 WPT Survey. Prior to and within 48 hours of the planned start of project activities in each of the project areas, a focused survey for WPT shall be conducted by a qualified biologist to determine if they are present in the area. If WPT individuals are found, CDFW shall be notified immediately to determine the correct course of action and project activities shall not begin until approved by CDFW. CDFW may submit additional written avoidance, minimization and mitigation measures if WPT are found within the project area. Those additional measures shall be considered part of this Agreement. In addition, Permittee shall notify CDFW in any instance where WPT are relocated. Notification shall be made to Tami Schane, Environmental Scientist, by email (tami.schane@wildlife.ca.gov) or by phone (415) 831-4640.
- 2.12 FYLF Survey. Prior to and within 48 hours of the planned start of project activities at Rancho San Antonio Park, a focused survey for FYLF shall be conducted by a qualified biologist to determine if they are present in the area. If FYLF individuals are found, CDFW shall be notified immediately to determine the correct course of action and project activities shall not begin until approved by CDFW. CDFW may submit additional written avoidance, minimization and mitigation measures if FYLF are found within the project area. Those additional measures shall be considered

part of this Agreement. In addition, Permittee shall notify CDFW in any instance where FYLF are relocated. Notification shall be made to Tami Schane, Environmental Scientist, by email (tami.schane@wildlife.ca.gov) or by phone (415) 831-4640.

- 2.13 CRLF Survey. Prior to and within 48 hours of the planned start of project activities at Rancho San Antonio Park, a focused survey for CRLF shall be conducted by a qualified biologist to determine if they are present in the area. If CRLF individuals are found, USFWS and CDFW shall be notified immediately to determine the correct course of action and project activities shall not begin until approved by CDFW. CDFW may submit additional written avoidance, minimization and mitigation measures if CRLF are found within the project area. Those additional measures shall be considered part of this Agreement. CRLF shall not be relocated without authorization from USFWS.
- 2.14 WPT, FYLF, and CRLF Exclusion. If WPT, FYLF, or CRLF individuals are found, they shall be excluded from entering the project site. CDFW-approved exclusion fencing shall be installed around those areas or where equipment may be stockpiled. The lower edge of the fence shall be buried at least four (4) inches to prevent burrowing animals from tunneling under the fence.
- 2.15 Daily Species Inspection. If WPT, FYLF, or CRLF individuals are found, after installation of the fence barrier, the biological monitor (or qualified biologist) shall conduct daily inspections of the project work area and staging area prior to the commencement of construction activities. If the biological monitor or qualified biologist determines that sensitive species are not within the work area, equipment or materials may be moved onto the work site and project activities may commence under the direct observation of the biological monitor or qualified biologist.
- 2.16 BUOW. For project activities north of Amphitheatre Parkway and at Rancho San Antonio Park, Permittee shall conduct the following:
- 2.16.1 For project activities north Amphitheatre Parkway, Permittee shall consult with the City of Mountain View's biologist and review the Shoreline Park's monthly monitoring reports to identify occupied burrows within 250 feet of the construction footprint.
- 2.16.2 Conduct a pre-construction survey in the surrounding work area and associated grassland habitat no more than 48 hours prior to ground-disturbing activities to identify any nests sites and/or any BUOW foraging habitat.
- 2.16.3 Coordinate with CDFW for further guidance if any BUOW individuals are observed in the disturbance area during the non-breeding season (September 1-January 31), or if a breeding pair is observed within 150 meters of the disturbance area during the breeding season (February 1-August 31).
- 2.16.4 If there are BUOW nests within 250 feet of project activities, Permittee shall

establish a 250-foot radius, no-work buffer zone around occupied BUOW nests. Buffers may be modified on a case-by-case basis, with CDFW review and approval.

In addition to the required pre-construction survey within 48 hours of ground-disturbing activities, Permittee may also conduct a pre-construction survey within 14 days of ground-disturbing activities at their discretion.

- 2.17 SMHM, RR, and California Black Rail Survey. Prior to and within 48 hours of the planned start of project activities in the area downstream of Amphitheatre Parkway, a qualified biologist shall thoroughly inspect the work area and adjacent tidal or brackish marsh areas to determine if SMHM, RR, or California black rails are present in these areas. If a mouse of any species, RR, or a California black rail is observed within the work area, then work shall be stopped immediately by the qualified biologist, and the mouse or rail shall be allowed to leave the work area on its own volition. CDFW shall be notified of any such occurrences. If the mouse or rail does not leave the area, then no work shall commence until CDFW has made a determination on how to proceed with work activities. The qualified biologist shall be present on site to monitor for these species during the operation of large equipment within 300 feet of brackish marsh areas. The qualified biologist shall have the authority to stop work if deemed necessary for any reason to protect SMHM, RR or California black rails.
- 2.18 San Francisco Dusky-Footed Woodrat Survey. Within seven days of the planned start of project activities in areas of suitable foraging or nesting habitat for San Francisco dusky-footed woodrats, a focused survey for woodrat nests shall be conducted by a qualified biologist to determine if they are in the area. If woodrat nest(s) are found within the project footprint or within a 5-foot buffer, the Permittee shall notify CDFW for further guidance. A woodrat nest relocation plan may be required at CDFW's discretion. Woodrat nest dismantling and/or relocation activities shall not be conducted without approval by CDFW.
- 2.19 Bat Surveys. Within seven days of the planned start of project activities in areas of suitable roosting and foraging habitat for pallid bat, a focused survey shall be conducted by a qualified biologist to determine if it is present in the project area. If evidence of pallid bat is found within the project footprint, the Permittee shall notify CDFW for further guidance.
- 2.20 Stranded Aquatic Life. Permittee shall check daily for stranded aquatic life as the water level in the dewatering area drops. All reasonable efforts shall be made to capture and move all native fish observed in the dewatered areas. Capture methods may include fish landing nets, dip nets, buckets, electrofishing, and by hand. Captured native fish shall be released immediately in the closest body of water adjacent to the work site. For any species listed under the California Endangered Species Act or Federal Endangered Species Act, only a qualified

biologist with the necessary permits issued by CDFW and/or National Marine Fisheries Service can supervise the relocation of listed species. Handling of said listed species shall be restricted solely to a qualified biologist with the necessary permits issued by CDFW and/or National Marine Fisheries Service, or trained biological personnel (with proper handling permits) under the direct supervision of the qualified biologist. The Permittee shall contact CDFW no less than 24 hours and no greater than 72 hours of relocation activities. In the event that the Permittee intends to dispatch non-native fish species, Permittee shall coordinate with CDFW fisheries staff to apply for any applicable permits such as a permit to destroy nuisance fish (FG 793).

- 2.21 Steep-Walled Holes, Pits, and Trenches. All steep-walled holes, pits, or trenches exceeding 6 inches deep shall be secured against animal entry at the close of each day or any time the opening will be left unattended for more than one hour. Plywood or similar materials with no gaps shall be used to cover the trenches (if possible), holes, and pits. In the absence of covers, escape ramps shall be provided, constructed of earth or untreated wood, sloped no steeper than 2:1, and located no further than 15 feet apart.
- 2.22 Pipes, Hoses, and Similar Structures. All pipes, hoses, or similar structures less than 12 inches in diameter shall be closed or covered to prevent animal entry. All construction pipes or similar structures greater than 2 inches in diameter stored at the project site overnight shall be inspected thoroughly for wildlife by a qualified biologist before the pipe or similar structure is buried, capped, used, or moved.
- 2.23 Staging of Materials. Staging and storage areas for vehicles, equipment, and any other materials shall be located outside of the stream channels and banks. Stationary equipment such as motors, pumps, generators, compressors, and welders, located within or adjacent to the stream channels shall be positioned over drip-pans. Any equipment or vehicles driven and/or operated within or adjacent to the stream channels shall be checked and maintained daily, to prevent leaks of materials that if introduced to water could be deleterious to aquatic life. Vehicles shall be moved a minimum of 65 feet away from any stream channels prior to refueling and lubrication.
- 2.24 Hazardous Materials. Debris, soil, silt, bark, rubbish, slash, sawdust, creosote-treated wood, raw cement/concrete or washings thereof, asphalt, paint, or other coating material, oil or other petroleum products, or any other substances which could be hazardous to aquatic life, resulting from project-related activities, shall be prevented from contaminating the soil and/or entering the waters of the State. Any of these materials, placed within or where they may enter a stream or lake, by Permittee or any party working under contract, or with the permission of the Permittee, shall be removed immediately. All chemicals stored in staging areas shall be stored in secondary containment with no less than 110% capacity. Proper

storage and security shall be implemented to ensure that chemicals are not spilled or vandalized.

- 2.25 Spill Kits. Prior to entering the work site, all field personnel shall know the location of spill kits and trained in their appropriate use.
- 2.26 No Dumping of Litter or Debris. There shall be no dumping of litter or construction debris within the channel, riparian zone, or adjacent marsh. All litter, debris, and waste shall be picked up daily and properly disposed at an appropriate site.
- 2.27 Concrete Use Near Waterways. Poured concrete, including grout associated with rock riprap, and any runoff exposed to poured concrete shall be excluded from stream flows and the wetted channel for a minimum period of 30 days after it is installed. During that time the concrete shall be kept moist, and runoff from the concrete shall not be allowed to enter a waterway. Sealant or curing accelerant may be applied to the poured concrete surface or slurry where difficulty in excluding water flow from the uncured concrete surface for a long period may occur; however, pH testing of water exposed to uncured concrete shall be performed to ensure that the pH range shall remain between 6.5 and 8.3. Any sealant or accelerant to be used shall first have the material safety data sheets (MSDS) for all active chemical ingredients submitted and accepted by CDFW before application in construction. All MSDS shall include environmental toxicity information. If sealant is used, water shall be excluded from the site until the sealant is dry.

3. Compensatory Measures

To compensate for adverse impacts to fish and wildlife resources identified above that cannot be avoided or minimized, Permittee shall implement each measure listed below.

- 3.1 Mitigation and Monitoring Plan. At least 30 days prior to the start of project activities, Permittee shall submit to CDFW for review and written approval, an updated Mitigation and Monitoring Plan (MMP) to replace the original MMP (*Permanente Creek Flood Control Project Mitigation and Monitoring Plan*, dated July 2013) that was submitted as Appendix I in the Notification. The updated MMP shall reflect the current project, including an updated assessment of temporary, semi-permanent, and permanent impacts and associated compensatory mitigation for each habitat type. The updated MMP shall also include a minimum monitoring period of at least 5 years for wetland habitat, and at least 10 years for riparian habitat, and include appropriate and effective success criteria for each habitat type.
- 3.2 Wetland Vegetation Mitigation. To compensate for the 0.42 acres of semi-permanent or permanent impacts to seasonal wetland vegetation at the Rancho San Antonio flood detention facility, Permittee shall create a minimum of 0.84 acres of seasonal wetland on site. Permittee shall include a planting plan

(including species palette, planting densities, and success criteria) in the updated MMP that shall be submitted to CDFW for review and approval (see Measure 3.1).

- 3.3 Riparian Tree Mitigation. To compensate for the removal of riparian trees, the Permittee shall include a planting plan (including species palette, planting densities, and success criteria) in the updated MMP that shall be submitted to CDFW for review and approval (see Measure 3.1). The MMP shall also include an updated assessment identifying the impacted riparian trees by species, dbh range, and project element. Permittee shall plant native, riparian trees at the following ratios:
- 3.3.1 Tree species not native to California shall be replaced with native, endemic tree species at a minimum ratio of at least 1:1 (trees replaced: trees impacted).
 - 3.3.2 Tree species native to California but not endemic to the project area measuring less than 15 inches in diameter-at-breast-height (dbh) shall be replaced with native tree species endemic to the project area at a minimum ratio of at least 1:1 (trees replaced: trees impacted).
 - 3.3.3 Tree species native to California but not endemic to the project area, measuring 15 inches dbh or greater shall be replaced with native tree species endemic to the project area at a minimum ratio of at least 2:1 (trees replaced: trees impacted).
 - 3.3.4 Native tree species (not oak or sycamore) measuring less than 44 inches dbh shall be replaced with native tree species at a minimum ratio of at least 3:1 (trees replaced: trees impacted).
 - 3.3.5 Native tree species (not oak or sycamore) measuring 44 inches dbh or greater shall be replaced with native tree species at a minimum ratio of at least 5:1 (trees replaced: trees impacted).
 - 3.3.6 Native oak or sycamore trees measuring less than 15 inches dbh shall be replaced with similar native oak or sycamore trees at a minimum ratio of at least 3:1 (trees replaced: trees impacted).
 - 3.3.7 Native oak or sycamore trees measuring between 15 inches dbh and less than 30 inches dbh shall be replaced with similar native oak or sycamore trees at a minimum ratio of at least 5:1 (trees replaced: trees impacted).
 - 3.3.8 Native oak or sycamore trees measuring greater than 30 inches dbh shall be replaced with similar native oak or sycamore trees at a minimum ratio of at least 10:1 (trees replaced: trees impacted).
- 3.4 CRLF, FYLF, and WPT Mitigation. Final identification and quantification of both temporary and permanent impacts to both upland and aquatic CRLF habitat (dispersal versus breeding), as well as to FYLF and WPT habitat, shall be clearly described in the updated MMP that shall be submitted to CDFW for review and approval (see Measure 3.1). Mitigation for impacts to CRLF, FYLF, and WPT habitat shall also be described in terms of habitat type(s), mitigation ratios, location(s), and success criteria.

- 3.5 Irrigation. Supplemental watering shall be used as necessary to establish and maintain plant growth in order to meet success criteria. Irrigation shall be done in the most water efficient manner possible, such as using hand watering, drip/micro-irrigation, or through the use of a time release system.
- 3.6 Phytophthora. Permittee shall implement measures to avoid using plant stock that may be infected with the plant pathogen *Phytophthora* spp. Measures to avoid contamination with *Phytophthora* spp. may include, but are not limited to, avoiding collection of propagules from 1) known or likely infected areas; 2) during wet conditions; 3) when soil is muddy; or 4) from within 0.5 meters of the soil surface. Measures may also include implementing heat or chemical treatments to collected seeds prior to installation. Such measures shall be included in the planting plan in the updated MMP that shall be submitted to CDFW for review and approval (see Measure 3.1).

4. Reporting Measures

Permittee shall meet each reporting requirement described below.

- 4.1 Initial Monitoring. To document any changing conditions of the mitigation sites as they mature, Permittee shall submit a complete set of as-built drawings within 120 days of completion of mitigation implementation. Within 30 days of the first monitoring visit, the as-built drawings shall be updated to create a set of as-maintained drawings. The as-maintained drawings shall be updated each time actions are taken that change the condition of the sites, including installation of replacement plantings.
- 4.2 Annual Monitoring Report. Permittee shall submit to CDFW an annual monitoring report by May 1 of each year of monitoring until CDFW provides approval in writing that the Permittee's final mitigation success criteria have been achieved. Each annual monitoring report shall detail mitigation monitoring activities between March 16 of the previous calendar year and March 15 of the current calendar year (or as otherwise indicated in the final, CDFW-approved MMP per Measure 3.1).

CONTACT INFORMATION

Any communication that Permittee or CDFW submits to the other shall be in writing and any communication or documentation shall be delivered to the address below by U.S. mail, fax, or email, or to such other address as Permittee or CDFW specifies by written notice to the other.

To Permittee:

Melanie Richardson
(contact person Kurt Lueneburger)

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118
Phone (408) 630-3095
Fax (408) 979-5656
klueneburger@valleywater.org

To CDFW:

Department of Fish and Wildlife
Bay Delta Region
7329 Silverado Trail
Napa, CA 94558
Attn: Lake and Streambed Alteration Program – Tami Schane
Notification #1600-2013-0381-R3
Fax (415) 831-4640 (call same number ahead of time to arrange fax time)
tami.schane@wildlife.ca.gov

LIABILITY

Permittee shall be solely liable for any violations of the Agreement, whether committed by Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute CDFW's endorsement of, or require Permittee to proceed with the project. The decision to proceed with the project is Permittee's alone.

SUSPENSION AND REVOCATION

CDFW may suspend or revoke in its entirety the Agreement if it determines that Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before CDFW suspends or revokes the Agreement, it shall provide Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide Permittee an opportunity to correct any deficiency before CDFW suspends or revokes the Agreement, and include instructions to Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused CDFW to issue the notice.

ENFORCEMENT

Nothing in the Agreement precludes CDFW from pursuing an enforcement action against Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects CDFW's enforcement authority or that of its enforcement personnel.

OTHER LEGAL OBLIGATIONS

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the project or an activity related to it.

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 *et seq.* (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

Nothing in the Agreement authorizes Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

AMENDMENT

CDFW may amend the Agreement at any time during its term if CDFW determines the amendment is necessary to protect an existing fish or wildlife resource.

Permittee may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by CDFW and Permittee. To request an amendment, Permittee shall submit to CDFW a completed CDFW "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the corresponding amendment fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

TRANSFER AND ASSIGNMENT

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective, unless the transfer or assignment is requested by Permittee in writing, as specified below, and thereafter CDFW approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, Permittee shall submit to CDFW a completed CDFW "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the minor amendment fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

EXTENSIONS

In accordance with FGC section 1605(b), Permittee may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement's term. To request an extension, Permittee shall submit to CDFW a completed CDFW "Request to Extend Lake or Streambed Alteration" form and include with the completed form payment of the extension fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). CDFW shall process the extension request in accordance with FGC 1605(b) through (e).

If Permittee fails to submit a request to extend the Agreement prior to its expiration, Permittee must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (FGC section 1605(f)).

EFFECTIVE DATE

The Agreement becomes effective on the date of CDFW's signature, which shall be: 1) after Permittee's signature; 2) after CDFW complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC section 711.4 filing fee listed at http://www.wildlife.ca.gov/habcon/ceqa/ceqa_changes.html.

TERM

This Agreement shall expire on December 31, 2019 unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC section 1605(a)(2) requires.

EXHIBITS

The documents listed below are included as exhibits to the Agreement and incorporated herein by reference.

- Exhibit A. (Figure 1 – Project Location)
- Exhibit B. (Figure 2 – Rancho San Antonio Flood Detention Facility)
- Exhibit C. (Figure 3 – McKelvey Flood Detention Facility/Channel Improvements)
- Exhibit D. (Figure 4 – Levee, Embankment, and Floodwalls Downstream of US-101)

Exhibit E. (Table 7A. Proposed Compensatory Mitigation Ratios and Acreage – Summary of Impacts to Jurisdictional Waters of the U.S. and State, Including Wetlands; Permanente Creek Flood Protection Project; Updated July 7, 2016)

Exhibit F. (Table 7B. Proposed Compensatory Mitigation Ratios and Acreage for California Red-Legged Frog – Summary of Impacts to California Red-Legged Frog; Permanente Creek Flood Protection Project; Updated July 7, 2016)

Exhibit G. (Table 8B. Tree Species by DBH Class Removed From Areas Within or Affecting Riparian Zone – Revised June 21, 2016)

AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of Permittee, the signatory hereby acknowledges that he or she is doing so on Permittee's behalf and represents and warrants that he or she has the authority to legally bind Permittee to the provisions herein.

AUTHORIZATION

This Agreement authorizes only the project described herein. If Permittee begins or completes a project different from the project the Agreement authorizes, Permittee may be subject to civil or criminal prosecution for failing to notify CDFW in accordance with FGC section 1602.

CONCURRENCE

The undersigned accepts and agrees to comply with all provisions contained herein.

FOR SANTA CLARA VALLEY WATER DISTRICT



Melanie Richardson
Deputy Operating Officer
Watershed Design and Construction Division

8-2-16

Date

FOR DEPARTMENT OF FISH AND WILDLIFE



Craig Weightman
Environmental Program Manager

August 10, 2016

Date

Prepared by: Tami Schane
Environmental Scientist

Date Submitted: October 1, 2015

Date Revised: October 14, 2015

Date Revised: July 13, 2016

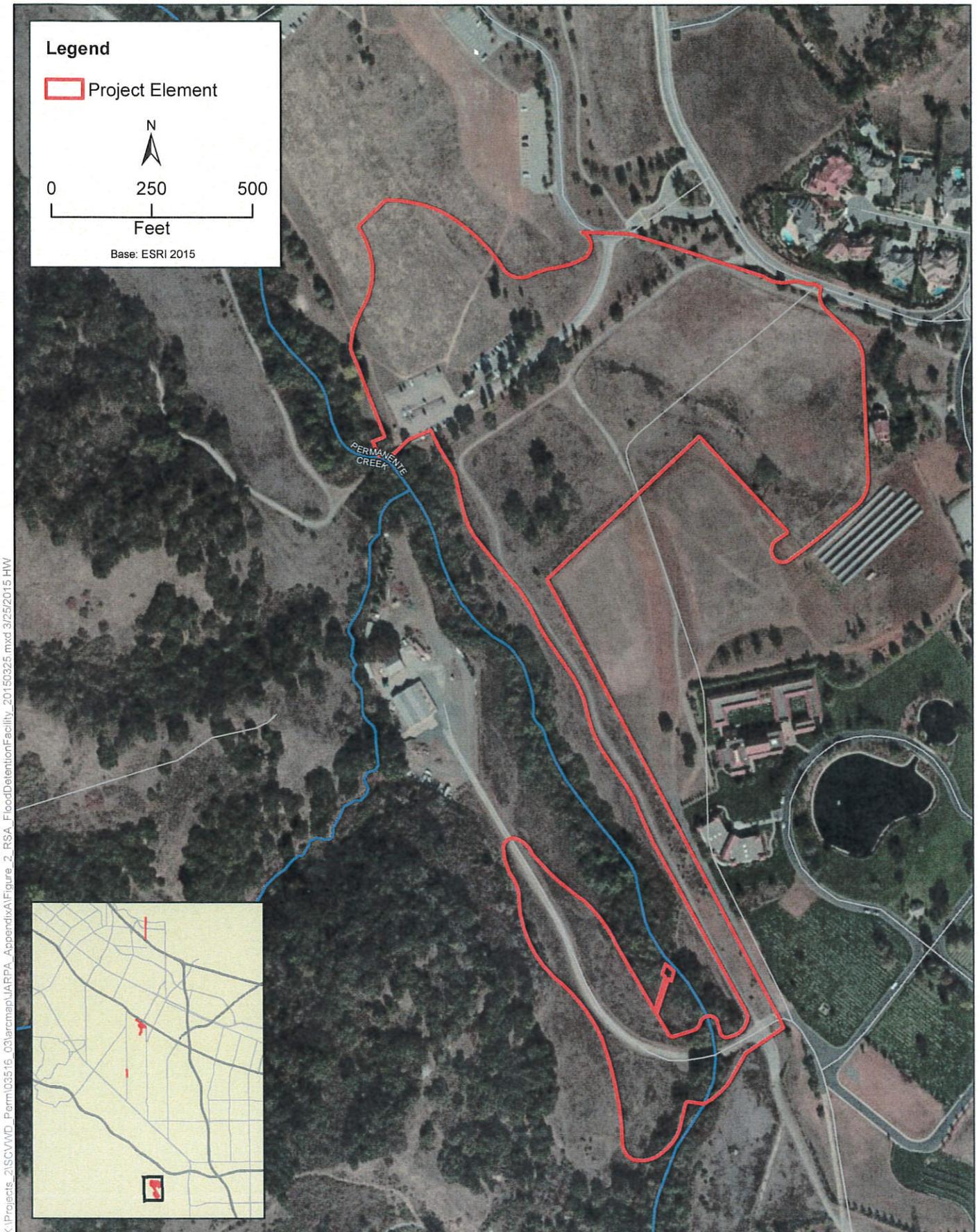
Date Revised: July 26, 2016



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Figure 1
Project Location



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Figure 2
Rancho San Antonio Flood Detention Facility

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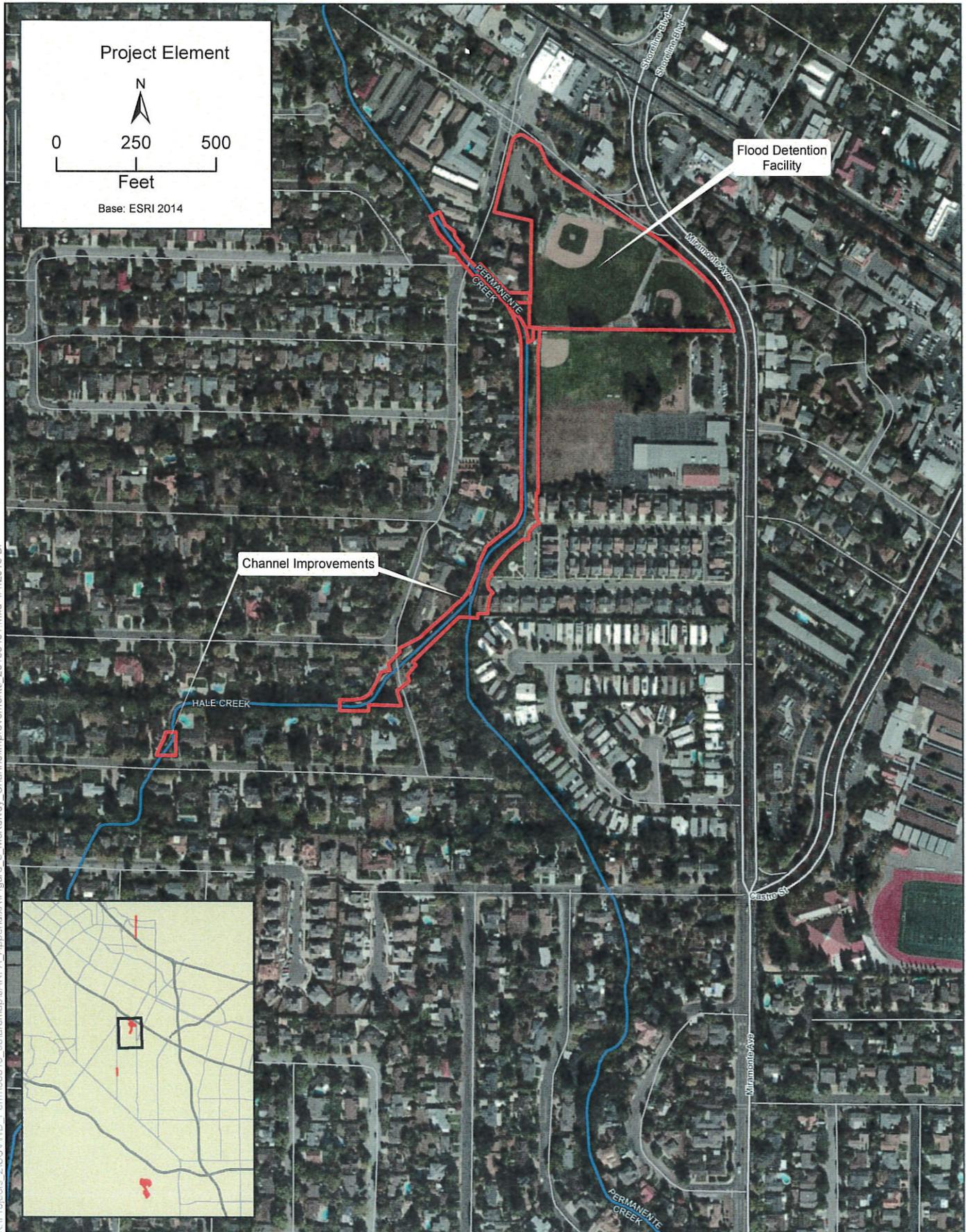


Figure 3
McKelvey Flood Detention Facility/Channel Improvements

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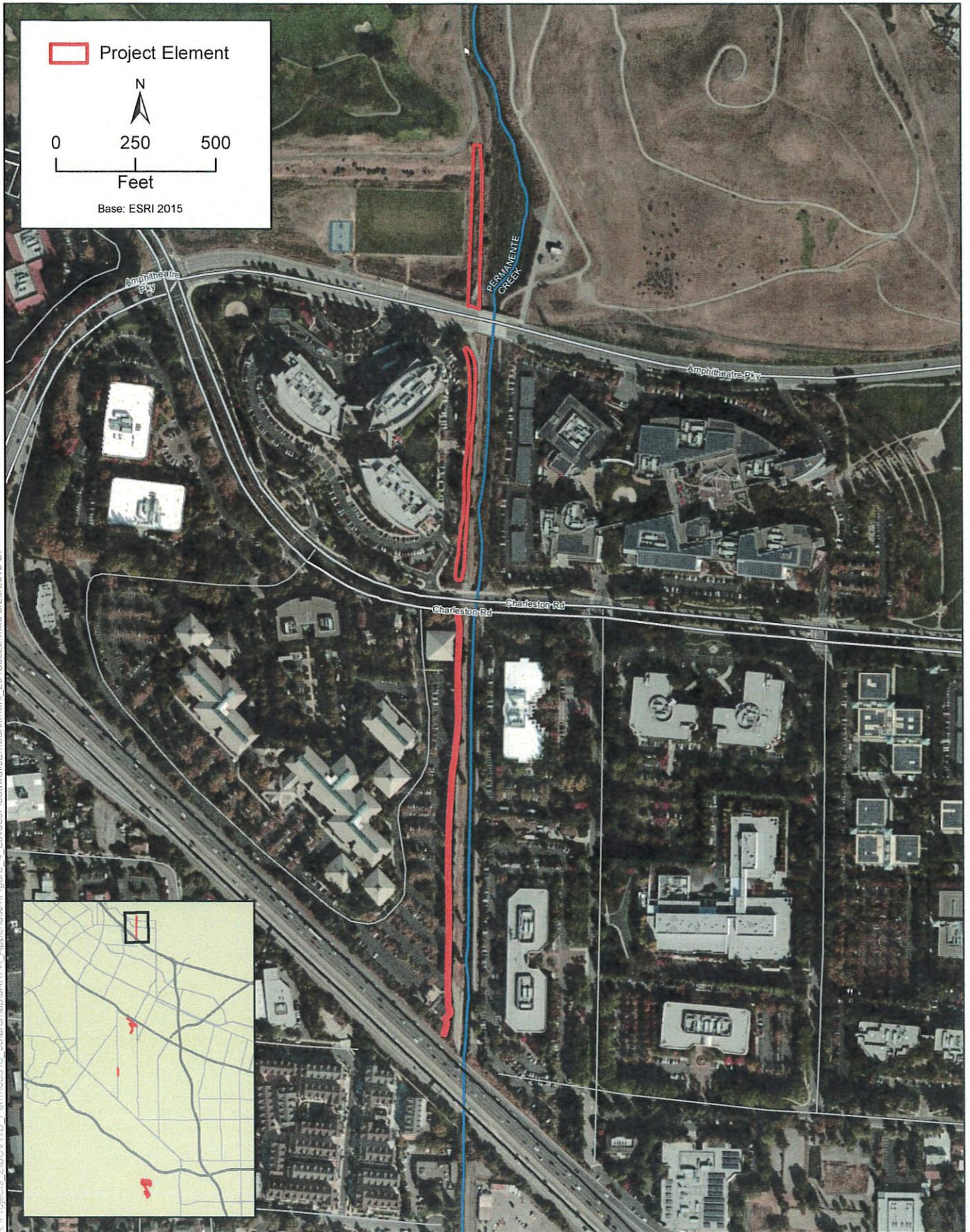


Figure 4
Levee, Embankment, and Floodwalls Downstream of US-101

**Summary of Impacts to Jurisdictional Waters of the U.S. and State, including Wetlands
 Permanente Creek Flood Protection Project
 Updated July 7, 2016**

Table 7A. Proposed Compensatory Mitigation Ratios and Acreage

Construction Action	Figure ID	Land Cover	Permanent Impacts			Temporary Impacts			Total Mitigation
			Impact (acres)	Mitigation Ratio	Mitigation Required (acres)	Impact (acres)	Mitigation Ratio	Mitigation Required (acres)	
Rancho San Antonio Detention Facility									
Construct cofferdam	A	Permanente Creek				0.01	1:1	0.01	0.01
Install north basin outfall	B		0.002	2:1	0.004				0.004
Install south basin outfall	C		0.002	2:1	0.004				0.004
Construct inlet structure	D9		0.03	2:1	0.06	0.04	1:1	0.04	0.10
Permanente Creek Waters of the US Totals			0.03		0.07	0.05		0.05	0.12
Construct north basin	F	Seasonal wetland				0.42	2:1	0.84	0.84
	G	Other waters (Ditch 1)				0.008	1:1	0.008	0.008
	H	Other waters (Ditch 2)				0.005	1:1	0.005	0.005
	I	Other waters (Ephemeral Drainage 1)				0.008	1:1	0.008	0.008
Other Waters and Wetlands Totals						0.44		0.86	0.86
Install north basin outfall	B	Riparian				0.01	1:1	0.01	0.01
Install south basin outfall	C					0.03	1:1	0.03	0.03
Construct inlet structure	D1					0.07	1.5:1	0.11	0.11
	D2					0.04	1.5:1	0.06	0.06
	D3		0.01	3:1	0.03	0.32	1.5:1	0.48	0.51
	D4		0.03	3:1	0.09				0.09
D5									
D6									
D7									
D8									
Construct south basin	E				0.10	1.5:1	0.15	0.15	
Riparian Totals			0.04		0.12	0.57		0.84	0.96

**Summary of Impacts to Jurisdictional Waters of the U.S. and State, including Wetlands
 Permanente Creek Flood Protection Project
 Updated July 7, 2016**

Construction Action	Figure ID	Land Cover	Permanent Impacts			Temporary Impacts			Total Mitigation
			Impact (acres)	Mitigation Ratio	Mitigation Required (acres)	Impact (acres)	Mitigation Ratio	Mitigation Required (acres)	
Channel Improvement									
Construct cofferdam	NA	Permanente Creek				0.006	1:1	0.006	0.006
Replace concrete channel bottom and walls, and construction of separation walls	NA					0.17	1:1	0.17	0.17
Concrete grinding	NA					0.02	1:1	0.02	0.02
Permanente Creek Waters of the US and State Totals						0.20		0.20	0.20
Hale Creek									
Construct cofferdam	NA	Hale Creek				0.006	1:1	0.006	0.006
Replace concrete channel bottom and walls, and construction of separation walls	NA					0.1	1:1	0.1	0.1
Replace concrete culvert	NA					0.02	1:1	0.02	0.02
Hale Creek Waters of the US and State Totals						0.13		0.13	0.13
McKelvey Park Detention Facility									
Construct detention facility	NA	No jurisdictional habitats							0
Totals									0
Floodwall									
Construct floodwalls	NA	No jurisdictional habitats							0
Totals									0
Embankment									
Construct embankment	NA	No jurisdictional habitats							0
Totals									0

**Summary of Impacts to Jurisdictional Waters of the U.S. and State, including Wetlands
 Permanente Creek Flood Protection Project
 Updated July 7, 2016**

Construction Action	Figure ID	Land Cover	Permanent Impacts			Temporary Impacts			Total Mitigation
			Impact (acres)	Mitigation Ratio	Mitigation Required (acres)	Impact (acres)	Mitigation Ratio	Mitigation Required (acres)	
Levee Improvements									
Raise levee	NA	Permanente Creek							0
Totals									0

**Summary of Impacts to California Red-Legged Frog
 Permanente Creek Flood Protection Project
 Updated July 7, 2016**

Table 7B. Proposed Compensatory Mitigation Ratios and Acreage for California Red-Legged Frog

Construction Action	Figure ID	Land Cover	Permanent Impacts			Temporary Impacts			Total Mitigation
			Impact (acres)	Mitigation Ratio	Mitigation Required (acres)	Impact (acres)	Mitigation Ratio	Mitigation Required (acres)	
Rancho San Antonio Detention Facility									
Construct detention facility	NA	Permanent removal of suitable aquatic frog habitat	0.07	3:1	0.21				0.21*
	NA	Temporary impact to suitable frog habitat				17.79	1:1	17.79	17.79**

Notes:

- * compensation provided by purchase of appropriate credits from a Service-approved mitigation bank
- ** compensation provided by onsite restoration of suitable habitats

**Table 8B. Tree Species by DBH Class Removed from Areas Within or Affecting Riparian Zone
(Revised June 21, 2016)**

Tree Species	Number of trees to be removed	Trunk Diameter (range)
Levee Improvements		
None	NA	NA
Total	0	
Embankment		
None	NA	NA
Total	0	
Floodwall		
None	NA	NA
Total	0	
Channel Improvements - Permanente Creek		
Honey locust (<i>Gleditsia triacanthos</i>)	1	
Coast live oak (<i>Quercus agrifolia</i>)	3	
Ailanthus (<i>Ailanthus altissima</i>)	2	2" – 14"
Mexican blue elderberry (<i>Sambucus nigra</i> ssp. <i>Caerulea</i>)	1	
Coast redwood (<i>Sequoia sempervirens</i>)	1	
<hr/>		
Honey locust (<i>Gleditsia triacanthos</i>)	2	
Valley oak (<i>Quercus lobata</i>)	1	
Elm (<i>Ulmus</i> spp.)	1	15" – 29"
Coast redwood (<i>Sequoia sempervirens</i>)	1	
Ailanthus (<i>Ailanthus altissima</i>)	1	
Total	14	
Channel Improvements – Hale Creek		
Coast live oak (<i>Quercus agrifolia</i>)	3	2" – 14"
Total	3	
McKelvey Park Detention Basin		
None	NA	NA
Total	0	

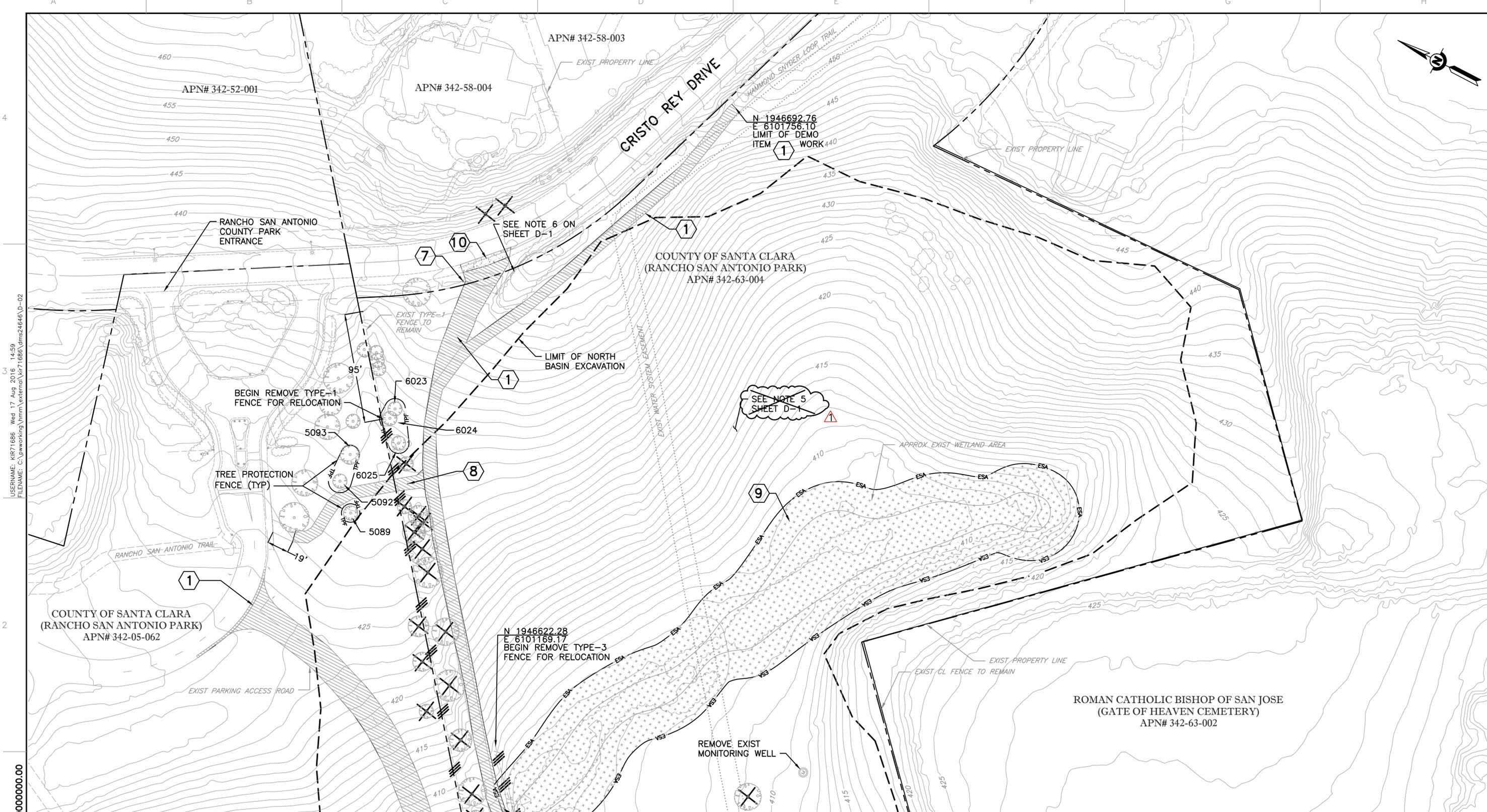
Tree Species	Number of trees to be removed	Trunk Diameter (range)
Rancho San Antonio County Park Flood Detention Facility		
Boxelder	1	
<i>Acer Negundo</i>		
California buckeye	2	
<i>Aesculus californica</i>		
White Alder	1	
<i>Alnus rhombifolia</i>		
California sycamore	1	2" – 14"
<i>Platanus racemosa</i>		
Arroyo Willow	15	
<i>Salix lasiolepis</i>		
Coast live oak	3	
<i>Quercus agrifolia</i>		
Mexican blue elderberry	4	
<i>Sambucus nigra ssp. caerulea</i>		
White Alder	2	
<i>Alnus rhombifolia</i>		
Coast live oak	1	
<i>Quercus agrifolia</i>		15" – 29"
Arroyo Willow	6	
<i>Salix lasiolepis</i>		
Mexican blue elderberry	2	
<i>Sambucus nigra ssp. caerulea</i>		
California buckeye	1	
<i>Aesculus californica</i>		30" – 44"
Coast live oak	2	
<i>Quercus agrifolia</i>		
California buckeye	1	
<i>Aesculus californica</i>		45"+
Arroyo Willow	2	
<i>Salix lasiolepis</i>		
Total	44	

**PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN**

ADDENDUM NO. 5

ATTACHMENT 3:

**Revised Plan Sheets D-1, D-2, D-3, D-4, C-1, C-2, C-13, C-21,
L-03A, L-03B, L-04, L-05, L-07, L-08A, and L-16**



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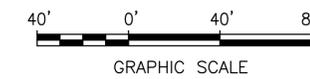
DOCUMENT NUMBER: XXXX-X-0000-00000000.00

NOTES

1. FOR LEGEND AND NOTES, SEE SHEET D-1.
2. FOR TREE PROTECTION SCHEDULE AND REGULATED TREE REMOVAL SCHEDULE, SEE SHEET D-1.
3. FOR FENCE REMOVAL SCHEDULE, SEE SHEET D-1.

MATCH LINE SEE SHEET D-3

4. FOR ADDITIONAL EXCLUSION AND PROTECTION FENCING, SEE EROSION CONTROL SHEETS.



REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
1	ADDENDUM NO. 5	8/16	TKS	

Hatch Mott MacDonald
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DATE: JUNE 2016
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 DRAWN: M WHITE
 CHECKED: G RITTER
 PROJECT ENGINEER DATE: 8/19/16

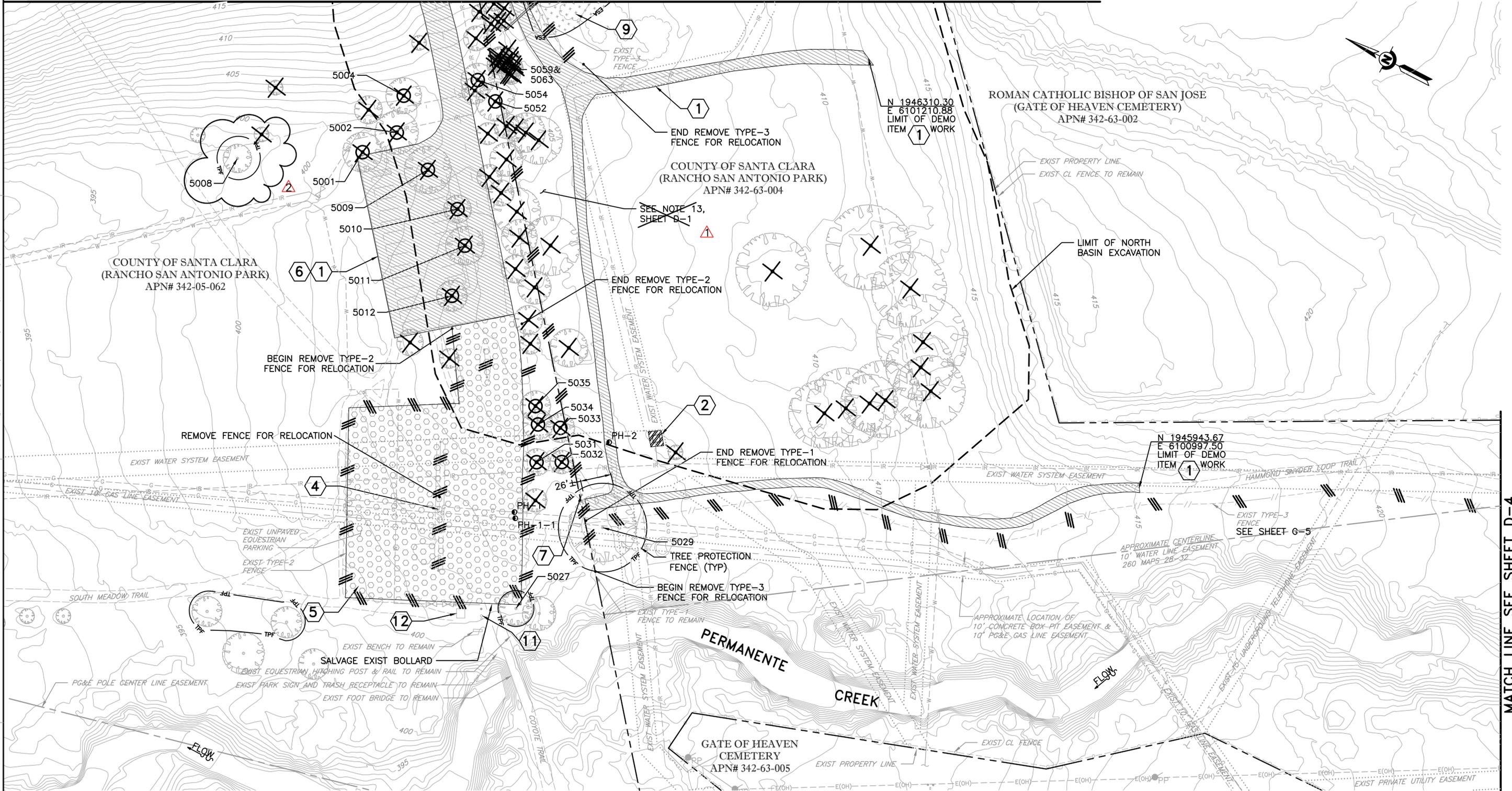
ENGINEERING CERTIFICATION
Santa Clara Valley Water District
 ACCEPTED BY DISTRICT
 PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO EXISTING TOPO AND DEMOLITION PLAN NORTH BASIN

SCALE: 1" = 40'
 VERIFY SCALES: 0 1"
 BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: **26244001**
 SHEET CODE: **D-2**
 SHEET NUMBER: OF

MATCH LINE SEE SHEET D-2



NOTES

1. FOR LEGEND AND NOTES, SEE SHEET D-1.
2. FOR TREE PROTECTION SCHEDULE AND REGULATED TREE REMOVAL SCHEDULE, SEE SHEET D-1.
3. FOR FENCE REMOVAL SCHEDULE, SEE SHEET D-1.
4. FOR ADDITIONAL EXCLUSION AND PROTECTION FENCING, SEE EROSION CONTROL SHEETS.



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Santa Clara Valley Water District
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 PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
 RANCHO SAN ANTONIO
 EXISTING TOPO AND DEMOLITION PLAN
 NORTH BASIN

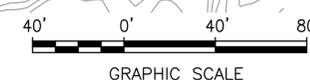
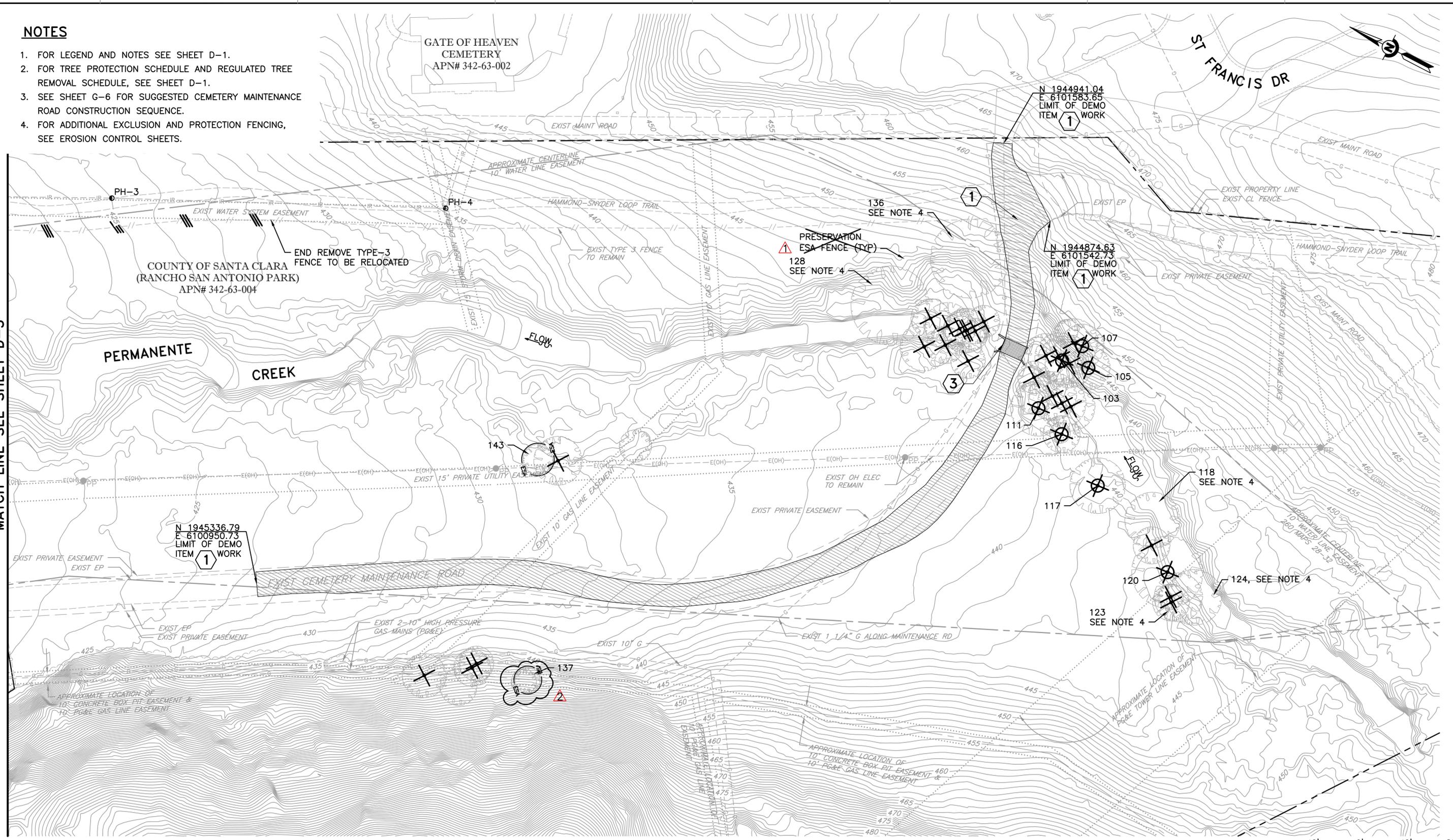
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PROJECT NUMBER: 26244001
 SHEET CODE: D-3
 SHEET NUMBER: OF

NOTES

1. FOR LEGEND AND NOTES SEE SHEET D-1.
2. FOR TREE PROTECTION SCHEDULE AND REGULATED TREE REMOVAL SCHEDULE, SEE SHEET D-1.
3. SEE SHEET G-6 FOR SUGGESTED CEMETERY MAINTENANCE ROAD CONSTRUCTION SEQUENCE.
4. FOR ADDITIONAL EXCLUSION AND PROTECTION FENCING, SEE EROSION CONTROL SHEETS.

MATCH LINE SEE SHEET D-3



DOCUMENT NUMBER: XXXX-X-0000-00000000.00

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2	ADDENDUM NO. 5	8/16	TKS	

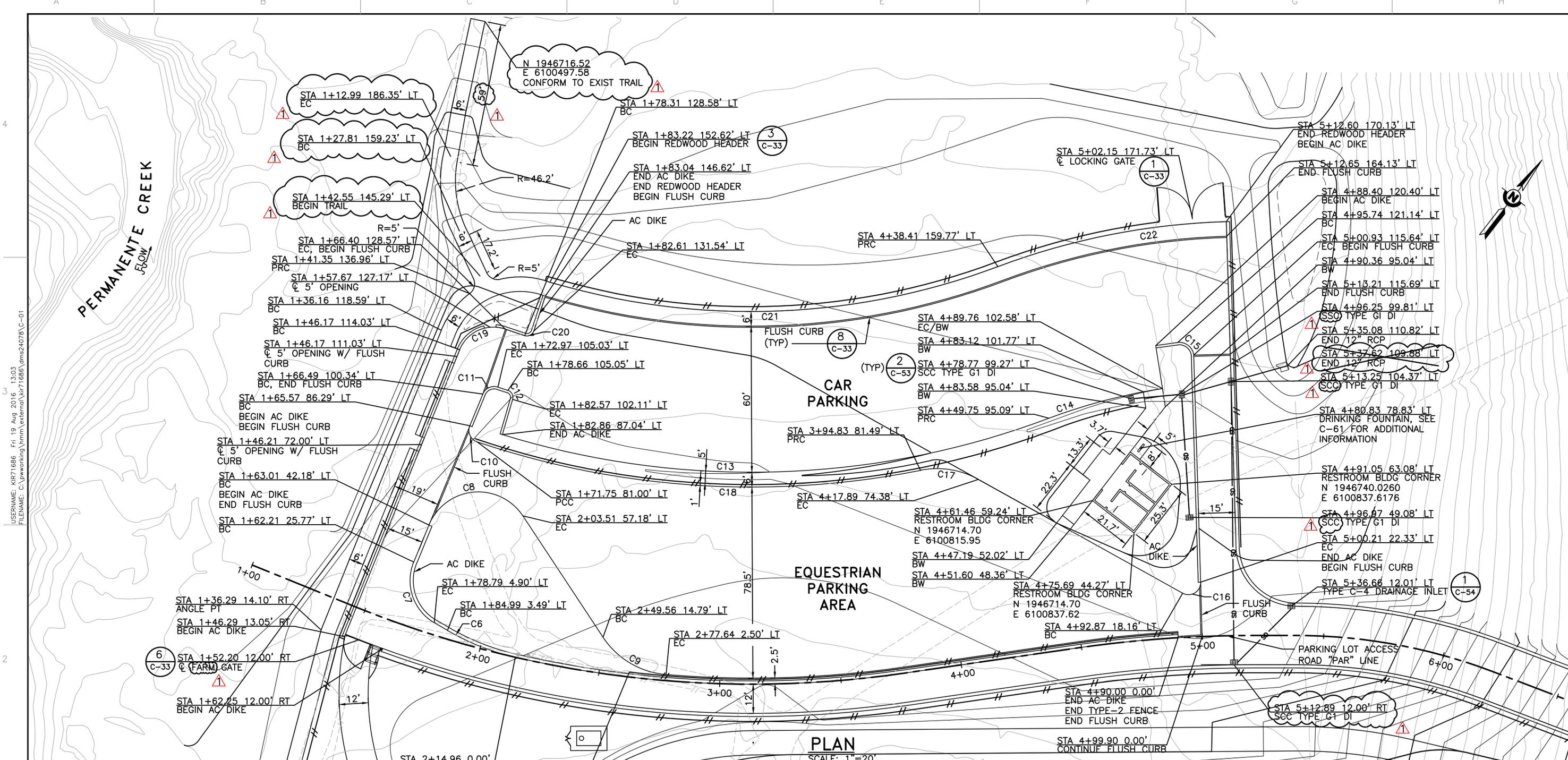
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PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
 RANCHO SAN ANTONIO
 EXISTING TOPO AND DEMOLITION PLAN
 SOUTH BASIN

SCALE: 1" = 40'
 VERIFY SCALES: 1" = 40'
 PROJECT NUMBER: 26244001
 SHEET CODE: D-4
 SHEET NUMBER: OF



PLAN
SCALE: 1"=20'

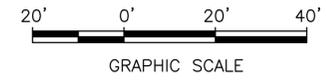
CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
C6	100.00	30.17	17°17'02"
C7	20.00	28.68	82°10'17"
C8	22.00	47.65	124°05'33"
C9	34.50	31.19	51°47'30"
C10	5.00	8.18	93°46'19"
C11	5.00	7.51	86°03'32"

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
C12	3.00	4.63	88°29'36"
C13	348.63	229.35	37°41'34"
C14	233.52	48.39	11°52'24"
C15	6.00	9.35	89°16'00"
C16	5.00	10.54	120°48'30"
C17	35.00	24.64	40°19'56"

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
C18	354.63	185.07	29°54'07"
C19	15.00	13.99	53°26'10"
C20	3.00	4.68	89°26'56"
C21	289.98	159.95	31°36'12"
C22	292.17	96.33	18°53'23"

NOTES

- SEE SHEET C-2 FOR PARKING ACCESS ROAD LAYOUT PLAN AND LINE CONTROL.
- ALL STATION OFFSETS BASED UPON "PAR" LINE.
- SEE SHEET C-13 FOR PAVING, GRADING, AND DRAINAGE.



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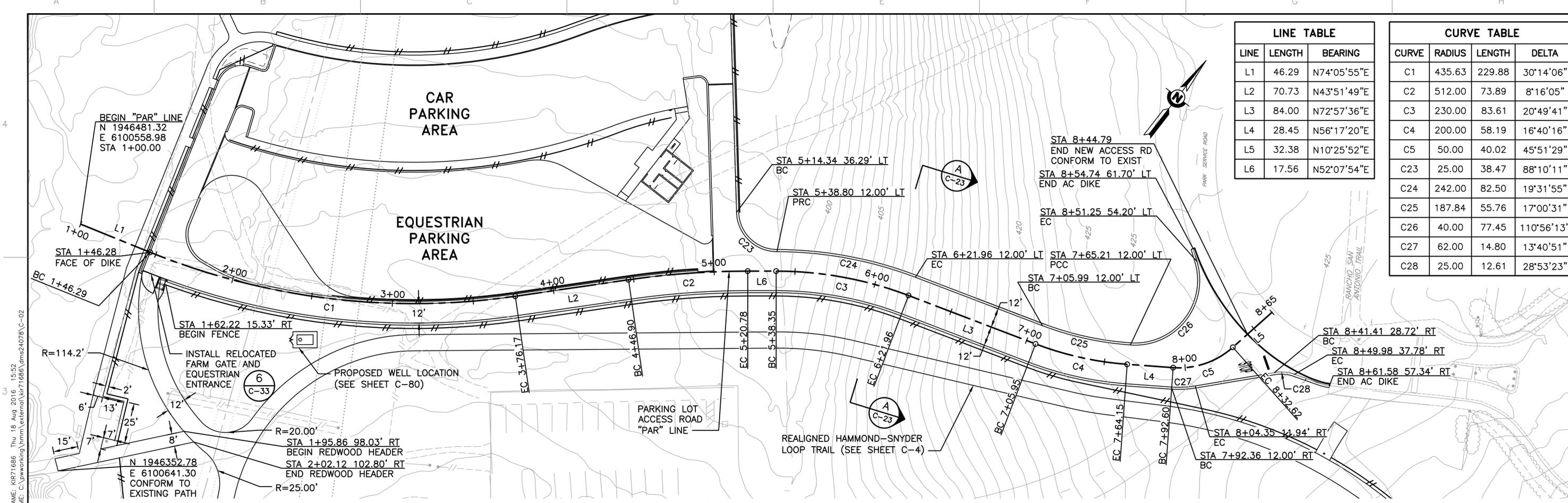
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DRAWN: K MEYER
CHECKED: G RITTER
PROJECT ENGINEER DATE: 8/19/16

ENGINEERING CERTIFICATION
Santa Clara Valley Water District
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PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO
PARKING LOT LAYOUT PLAN

SCALE: 1" = 20'
VERIFY SCALES
PROJECT NUMBER: **26244001**
SHEET CODE: **C-1**
SHEET NUMBER: OF

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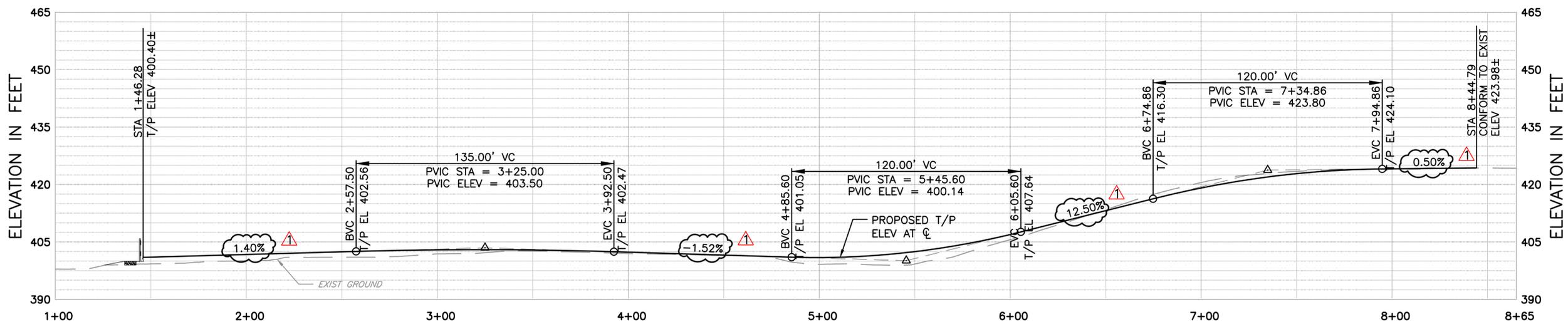
LINE TABLE		
LINE	LENGTH	BEARING
L1	46.29	N74°05'55"E
L2	70.73	N43°51'49"E
L3	84.00	N72°57'36"E
L4	28.45	N56°17'20"E
L5	32.38	N10°25'52"E
L6	17.56	N52°07'54"E

CURVE TABLE			
CURVE	RADIUS	LENGTH	DELTA
C1	435.63	229.88	30°14'06"
C2	512.00	73.89	8°16'05"
C3	230.00	83.61	20°49'41"
C4	200.00	58.19	16°40'16"
C5	50.00	40.02	45°51'29"
C23	25.00	38.47	88°10'11"
C24	242.00	82.50	19°31'55"
C25	187.84	55.76	17°00'31"
C26	40.00	77.45	110°56'13"
C27	62.00	14.80	13°40'51"
C28	25.00	12.61	28°53'23"

PLAN
SCALE: 1"=30'

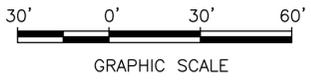
NOTES

1. FOR PARKING LOT INFORMATION, SEE SHEET C-1.



"PAR" LINE PROFILE

SCALE: 1"=30' HORIZ
1"=15' VERT



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DATE: JUNE 2016
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PROJECT ENGINEER: DATE

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REGISTERED PROFESSIONAL ENGINEER
TRACIE K SAKANTIPETA
C37141
CIVIL
STATE OF CALIFORNIA
8/19/16
PROJECT ENGINEER DATE

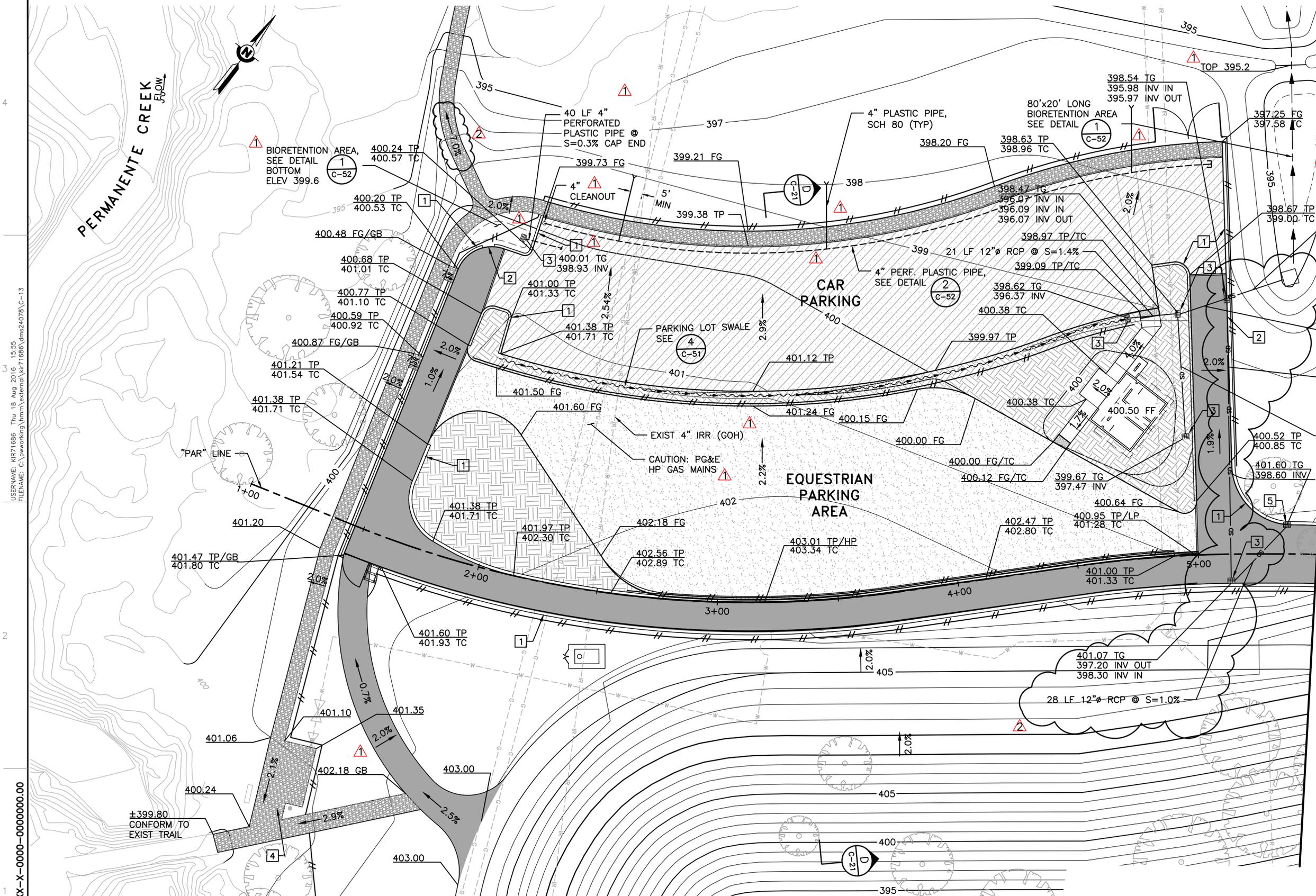
Santa Clara Valley Water District

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PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
**PERMANENTE CREEK
FLOOD PROTECTION PROJECT**
RANCHO SAN ANTONIO
PARKING LOT ACCESS ROAD REALIGNMENT
PLAN AND PROFILE

SCALE: 1" = 30'
VERIFY SCALES
GRAPHIC SCALE: 0, 30, 60 feet
PROJECT NUMBER: 26244001
SHEET CODE: C-2
SHEET NUMBER: OF



LEGEND

- POROUS AC PAVEMENT
- AGGREGATE BASE
- SOIL/LANDSCAPE
- STABILIZED AGGREGATE PAVING
- AC PAVEMENT
- DRAINAGE SWALE
- DIRECTION OF FLOW

22 LF 12" RCP @ S=0.5%
 PROVIDE RIP RAP FOR EROSION CONTROL
 AT PIPE OUTLET. SEE SHEET C-50 FOR
 DIMENSIONS OF ROCK SLOPE PROTECTION.

19 LF 12" RCP @ S=0.5%

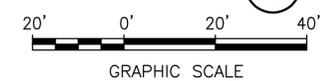
114 LF 12" RCP @ S=1.0%

51 LF 12" RCP @ S=2.7%

- NOTES**
- SEE SHEET C-2 FOR PARKING ACCESS ROAD PLAN AND PROFILE.
 - SEE SHEET C-30 FOR PARKING LOT AND ACCESS ROAD STRIPING LAYOUT.
 - SEE LANDSCAPE DWGS FOR SIGNAGE AND FENCING LOCATIONS.

PROJECT NOTES (SHEETS C-13 & C-14):

- CONSTRUCT TYPE E ASPHALT CONCRETE DIKE PER CALTRANS STANDARD PLAN A87B.
- CONSTRUCT ASPHALT CONCRETE OVERSIDE DRAIN PER CALTRANS STANDARD PLAN D87D. REDUCE DEPTH OF 8" TO 4" FOR SECTION C-C.
- INSTALL TYPE G1 DROP INLET PER THE COUNTY OF SANTA CLARA STANDARD DETAIL C-2. SEE DETAIL C-53.
- ADJUST EXISTING DRINKING FOUNTAIN TO BE FLUSH WITH FINISHED GRADE.
- INSTALL TYPE C-4 WITH GALLERY DRAINAGE INLET PER COUNTY OF SANTA CLARA STANDARD DETAIL C-5. SEE DETAIL C-54.



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	ADDENDUM NO. 5	8/16	TKS	

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DATE: JUNE 2016
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 DRAWN: C LEE
 CHECKED: J ELLIS
 PROJECT ENGINEER DATE

ENGINEERING CERTIFICATION

 8/19/16

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
**PERMANENTE CREEK
 FLOOD PROTECTION PROJECT**
 RANCHO SAN ANTONIO
 PARKING LOT
 PAVING, GRADING AND DRAINAGE PLAN

SCALE: 1" = 20'

VERIFY SCALES: ORIGINAL DRAWING

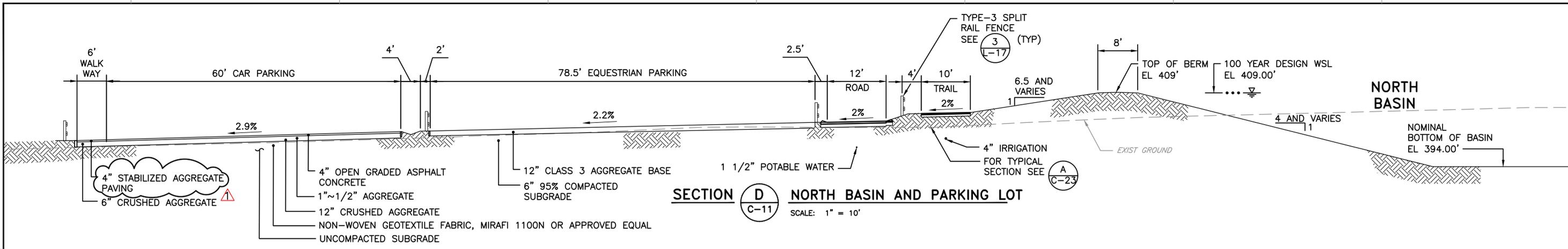
PROJECT NUMBER: 26244001

SHEET CODE: C-13

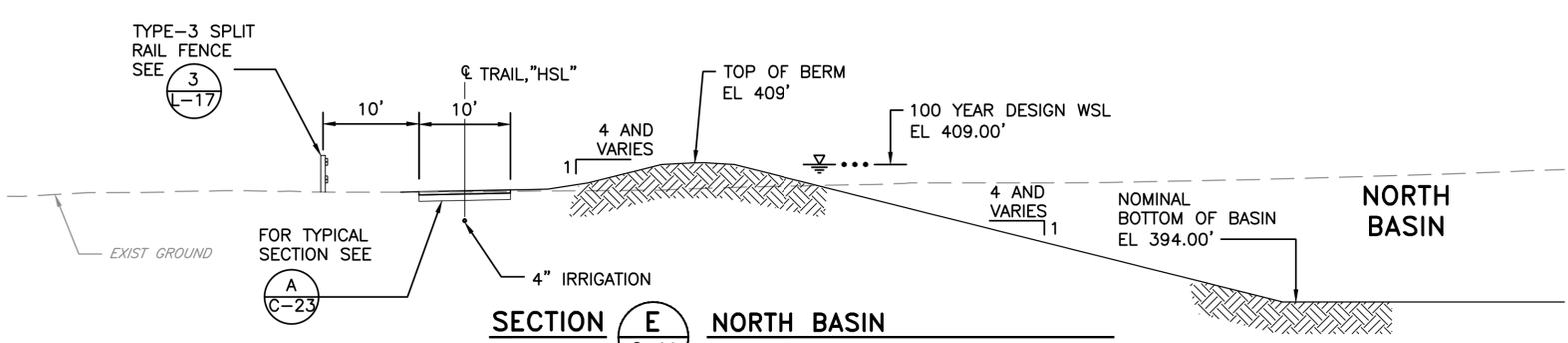
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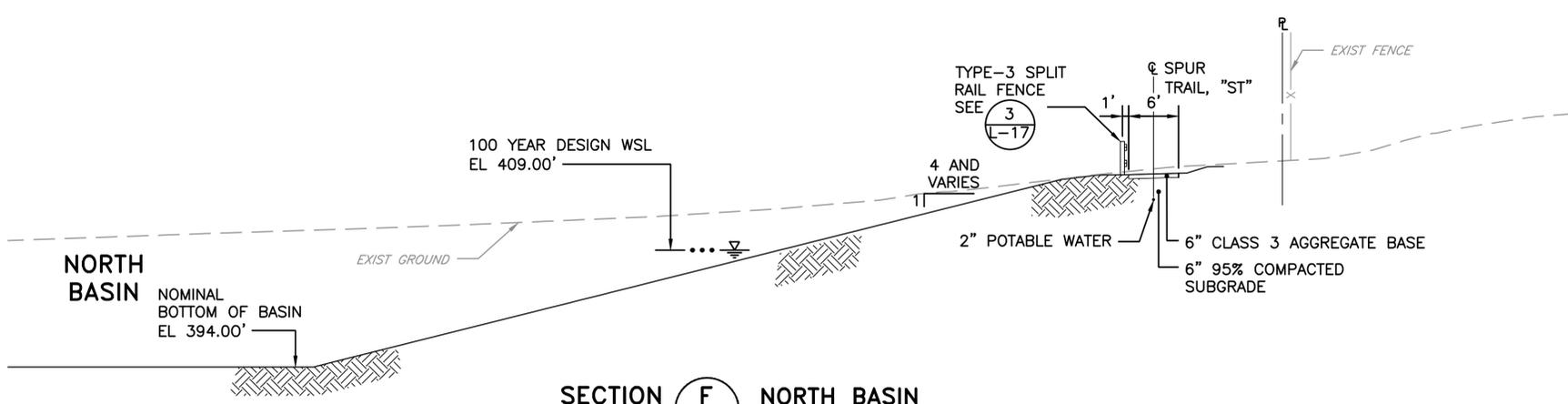
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SECTION D NORTH BASIN AND PARKING LOT
 SCALE: 1" = 10'



SECTION E NORTH BASIN
 SCALE: 1" = 10'



SECTION F NORTH BASIN
 SCALE: 1" = 10'

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
1	ADDENDUM NO. 5	8/16	TKS	

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DATE: JUNE 2016
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 DRAWN: K MEYER
 CHECKED: G RITTER
 PROJECT ENGINEER DATE: 8/19/16

ENGINEERING CERTIFICATION
 REGISTERED PROFESSIONAL ENGINEER
 TRACIE K SAKAKIYAMA
 C37141
 CIVIL
 STATE OF CALIFORNIA

Santa Clara Valley Water District

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PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
 RANCHO SAN ANTONIO NORTH BASIN SECTIONS

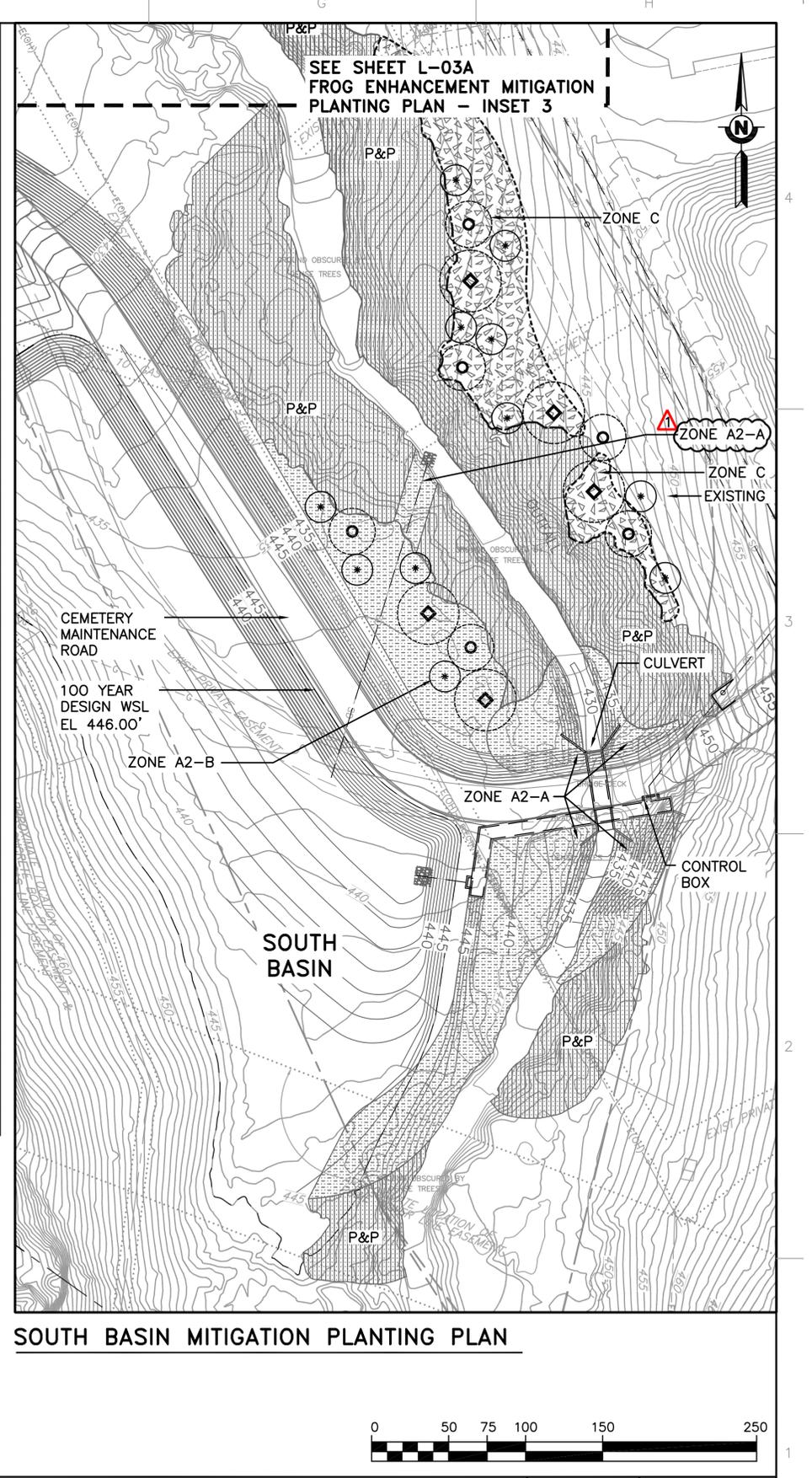
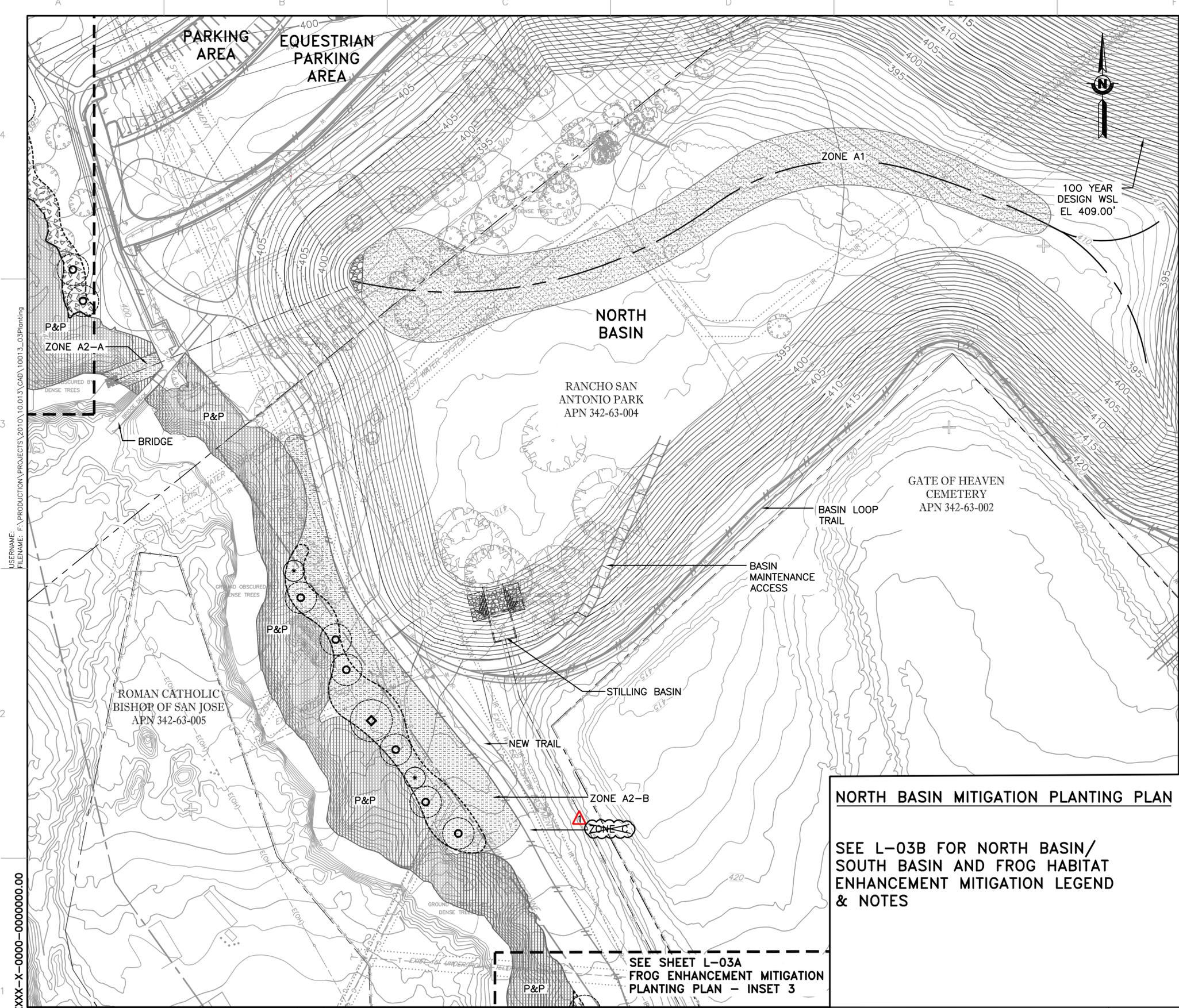
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VERIFY SCALES

PROJECT NUMBER: 26244001

SHEET CODE: C-21

SHEET NUMBER: OF



NORTH BASIN MITIGATION PLANTING PLAN

SEE L-03B FOR NORTH BASIN/
SOUTH BASIN AND FROG HABITAT
ENHANCEMENT MITIGATION LEGEND
& NOTES

SOUTH BASIN MITIGATION PLANTING PLAN



REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
Δ	ADDENDUM NO. 5	8/16	AP	

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1880 W. EL CAMINO REAL, #11
MOUNTAIN VIEW, CA 94040
925.328.8822 • BFS@A.COM

DATE: 06-22-16
DESIGN: A. PAL
DRAWN: H. SHETH
CHECKED: M. BELLINGER
PROJECT ENGINEER DATE: 08/18/16

ENGINEERING CERTIFICATION
M. BELLINGER
08/18/16

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT

RANCHO SAN ANTONIO MITIGATION PLANTING PLAN - SEASONAL WETLAND & RIPARIAN AREA

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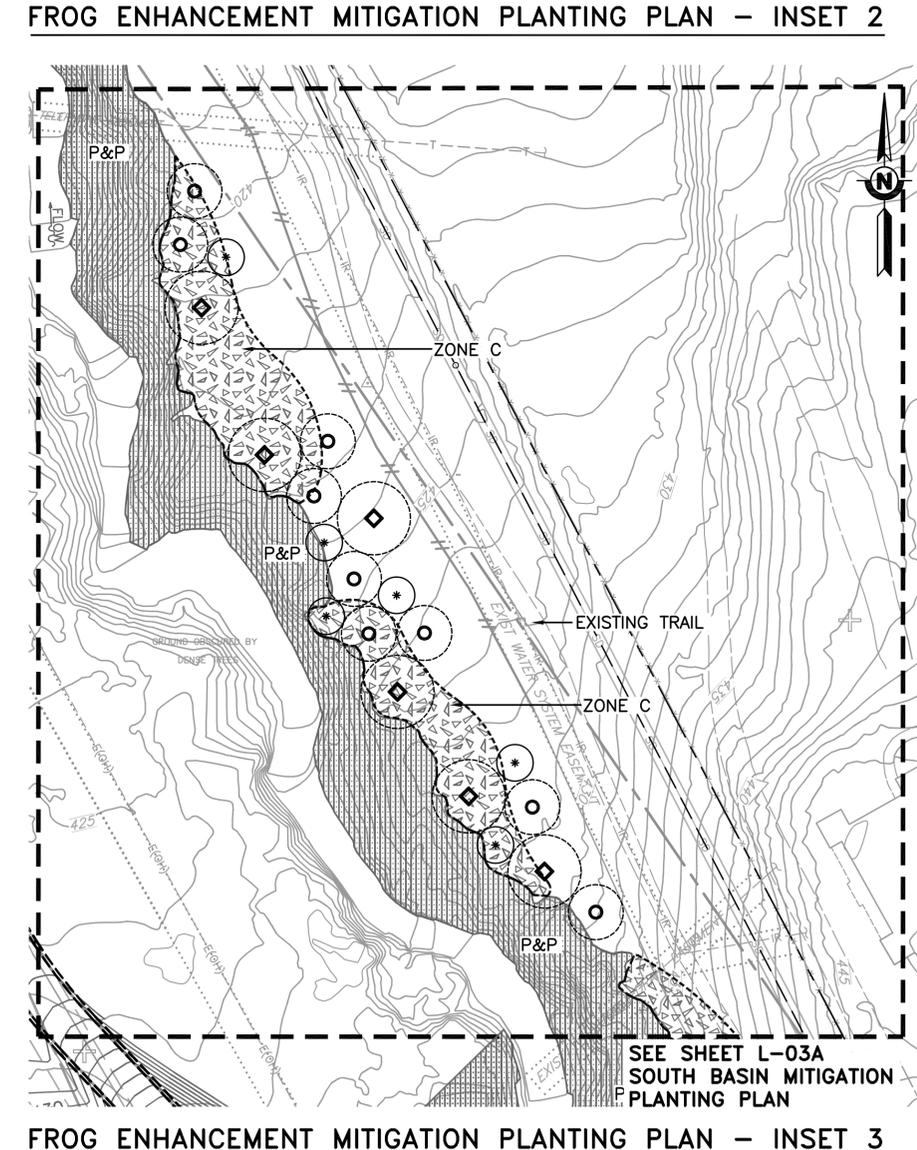
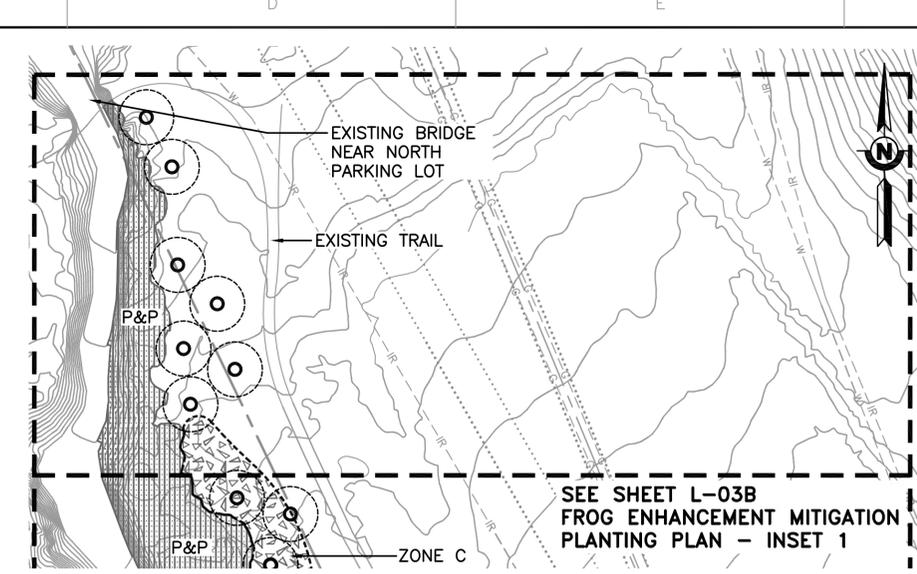
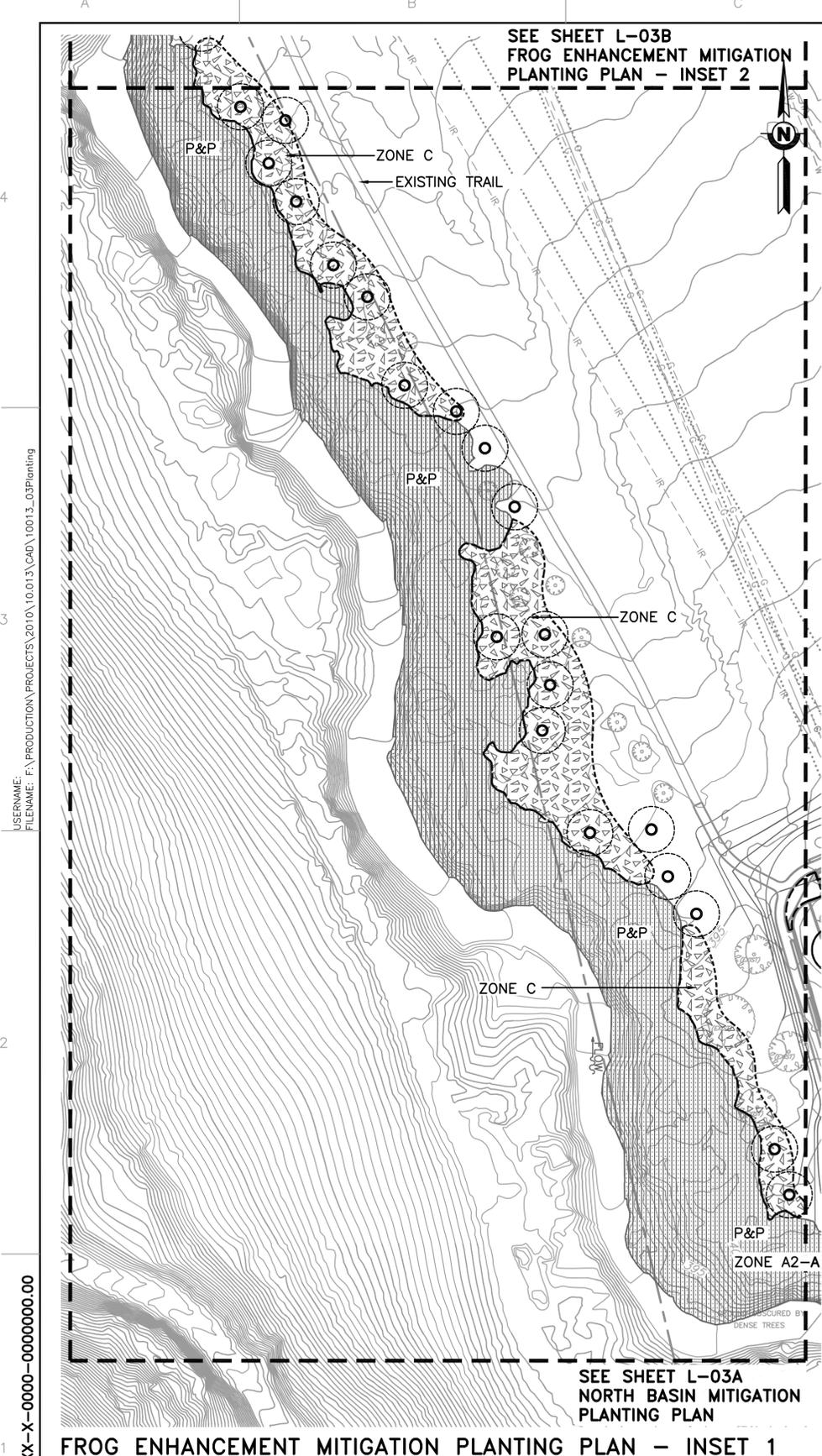
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PROJECT NUMBER: 26244001
SHEET CODE: L-03A
SHEET NUMBER: 91 OF 107

DOCUMENT NUMBER: XXXX-X-0000-0000000.00

USERNAME: FS\PRODUCTION\PROJECTS\2010\10.013\CAD\10013_03\Planting



LEGEND - NORTH BASIN/ SOUTH BASIN & FROG HABITAT ENHANCEMENT MITIGATION

- ZONE A1** ZONE-A1: SEASONAL WETLAND AREA
SEE L-07 FOR SPECIES, PLANTING METHOD & TYPICAL PLANTING PATTERNS. SEE SPECIFICATIONS FOR HYDRAULICALLY APPLIED MULCH. COMPLY WITH EIR MMP REQUIREMENTS.
- ZONE A2-A** ZONE-A2: RIPARIAN AREAS - BANKS
SEE L-07 FOR SPECIES, PLANTING METHOD & TYPICAL PLANTING PATTERNS. SEE SPECIFICATIONS. COMPLY WITH EIR MMP REQUIREMENTS. SEE L-05 FOR NATIVE GRASS SEED MIX & STERILE WHEAT SEED MIX.
- ZONE A2-B** ZONE-A2B: RIPARIAN AREAS - FLATS
SEE L-07 FOR SPECIES, PLANTING METHOD & TYPICAL PLANTING PATTERNS. SEE SPECIFICATIONS. COMPLY WITH EIR MMP REQUIREMENTS. SEE L-05 FOR NATIVE GRASS SEED MIX & STERILE WHEAT SEED MIX.
- ZONE C** RED LEGGED FROG HABITAT ENHANCEMENT
SEE L-07 FOR SPECIES, PLANTING METHOD & TYPICAL PLANTING PATTERNS. SEE SPECIFICATIONS. COMPLY WITH EIR MMP REQUIREMENTS.
- △** RIPARIAN ZONE A2-B UNDERSTORY: BACCHARIS PILULARIS (COYOTOE BRUSH)
SEE L-07 FOR QUANTITY, SPACING & TYPICAL PLANTING PATTERNS. SEE SPECIFICATIONS. SEE EIR MMP REQUIREMENTS.
- P&P** EXISTING TREES AND VEGETATION TO BE PRESERVED & PROTECTED. VERIFY LIMITS IN FIELD.
- QUERCUS AGRIFOLIA (COAST LIVE OAK): 3 ACORNS/ PLANTING PIT - 48 LOCATIONS. SEE L-07 FOR PLANTING METHOD. SEE SPECIFICATIONS.
- ◇** QUERCUS LOBATA (VALLEY OAK): 3 ACORNS/ PLANTING PIT - 12 LOCATIONS. SEE L-07 FOR PLANTING METHOD. SEE SPECIFICATIONS.
- *** AESCULUS CALIFORNICA (CALIFORNIA BUCKEYE): 1 LARGE SEED/ PLANTING PIT - 19 LOCATIONS. SEE L-07 FOR PLANTING METHOD. SEE SPECIFICATIONS.

NOTES

1. Project limits for weed control, as described in the specifications, include all planting areas plus (5) five feet buffer beyond the planting areas.



REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
△	ADDENDUM NO. 5	8/16	AP	

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Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO
MITIGATION PLANTING PLAN -
SEASONAL WETLAND & RIPARIAN AREA

SCALE: 1" = 50'

VERIFY SCALES

PROJECT NUMBER: 26244001

SHEET CODE: L-03B

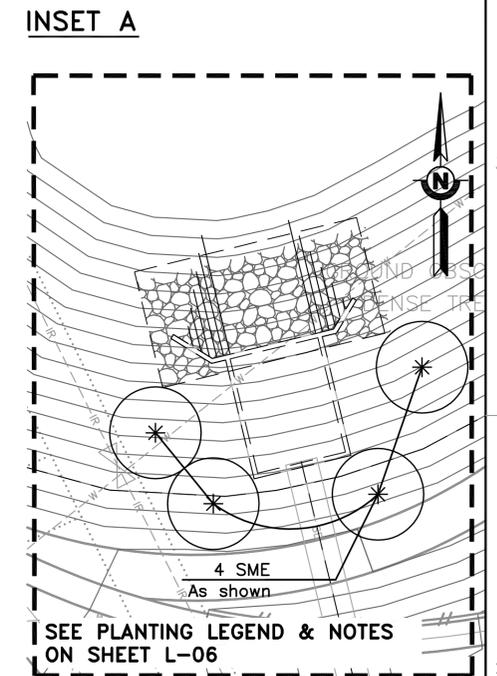
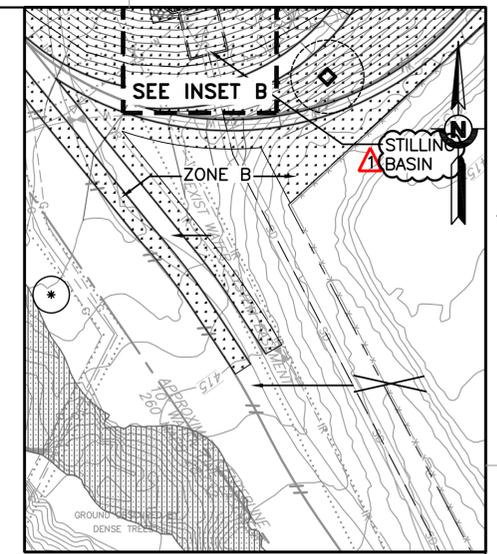
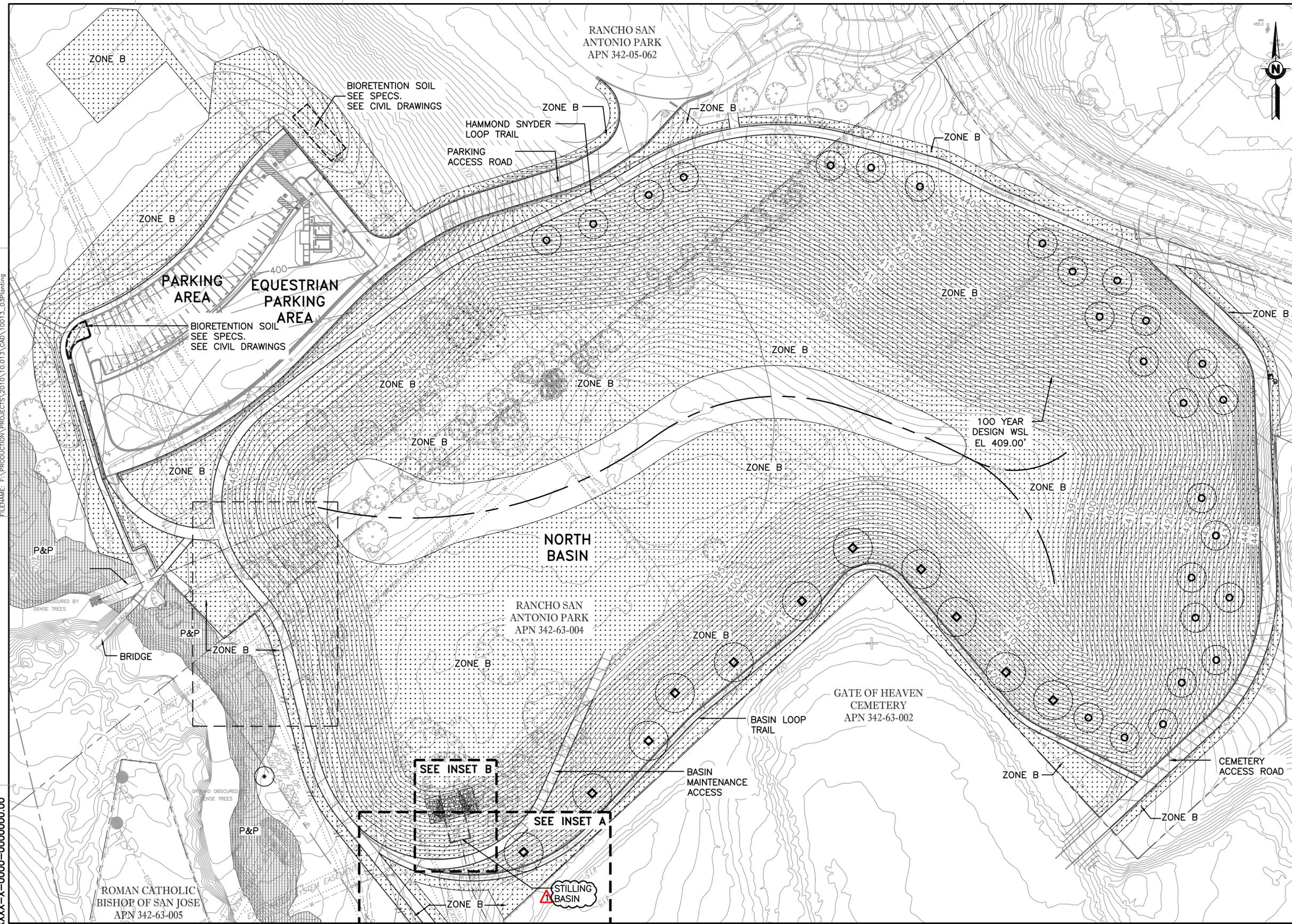
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INSET A

INSET B (ENLARGED)

NOTES

1. Acorn planting shall be minimum 3'-0" above and 10'-0" away from 100 Year Design WSL.

SEE L-05 FOR LEGEND & GENERAL NOTES

0 50 75 100 150 200 250

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DATE: 06-22-16
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 DRAWN: H. SHETH
 CHECKED: M. BELLINGER
 PROJECT ENGINEER: M. BELLINGER
 DATE: 08/18/16

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER: _____ DATE: _____

PROJECT NAME AND SHEET DESCRIPTION:

**PERMANENTE CREEK
 FLOOD PROTECTION PROJECT**

**RANCHO SAN ANTONIO
 PLANTING PLAN - NORTH BASIN**

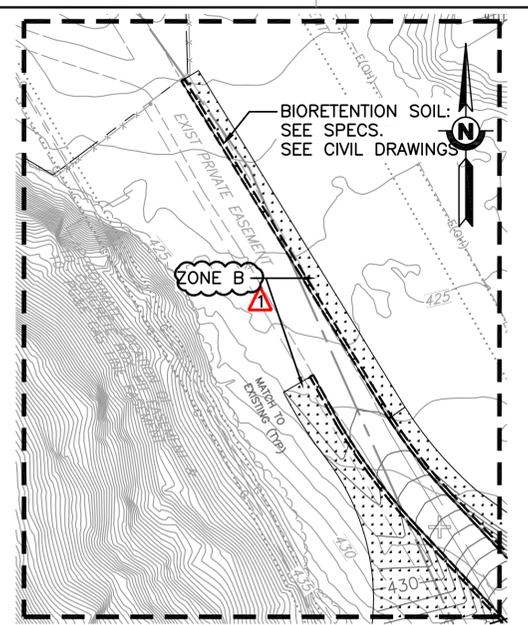
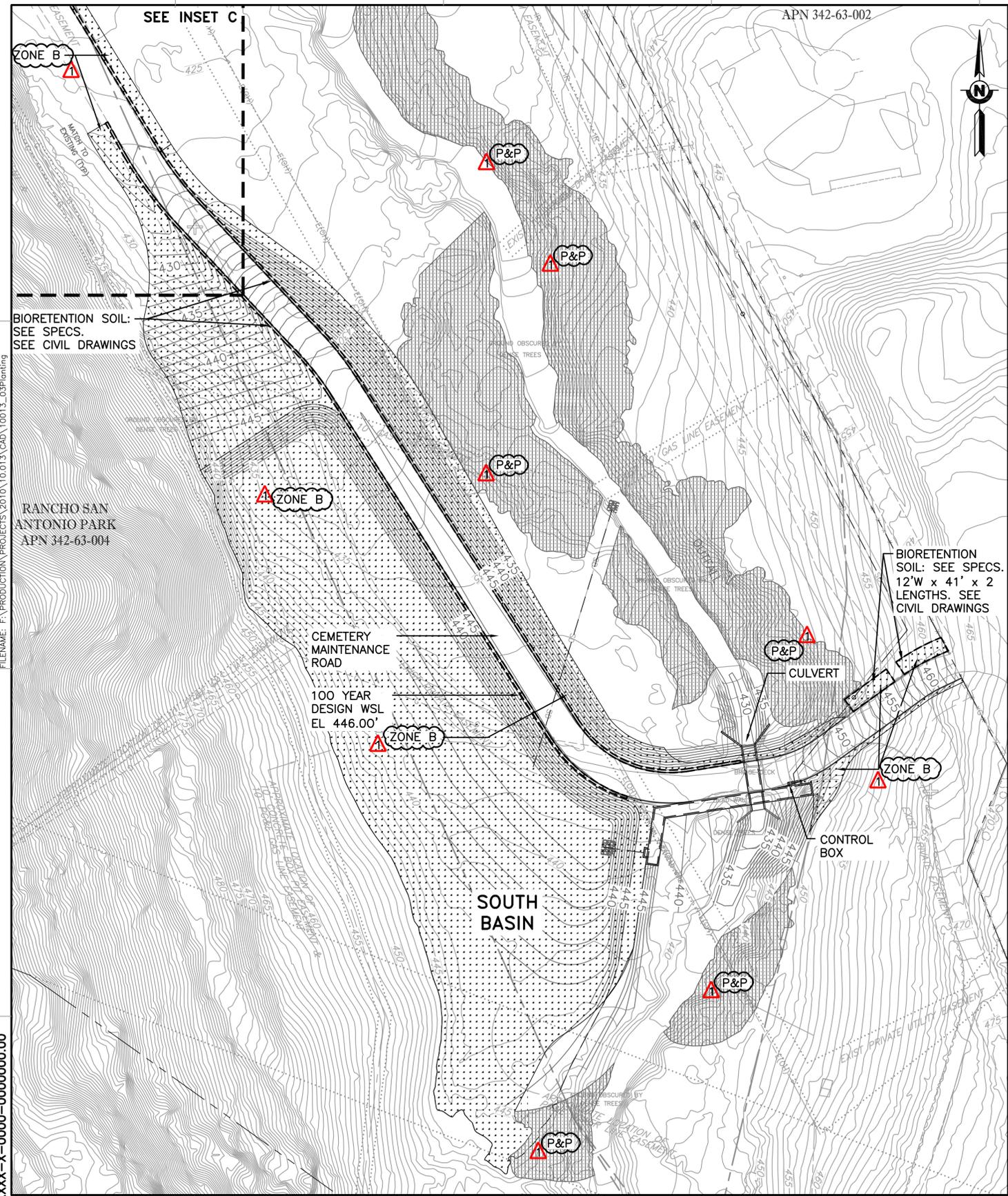
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PROJECT NUMBER: 26244001

SHEET CODE: L-04 ▲

SHEET NUMBER: 93 OF 107

VERIFICATION SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



INSET C

LEGEND

- ZONE A2-B NATIVE GRASS SEED: SEE SEED MIX TABLE BELOW. ALL PLANTING AREAS INCLUDING BIORETENTION AREAS AND FLAT RIPARIAN AREAS (ZONE A-2B). EXCLUDING RIPARIAN BANKS (ZONE A-2A) AND STOCKPILES (SHEET G-5)
 - ZONE A2-A STERILE WHEATGRASS: (SYNTHETIC) ELYMUS X TRITICUM 'REGREEN', MIN. PURITY 95%, MIN. GERMINATION 85%. 50 LB/AC ON RIPARIAN BANKS (ZONE A-2A) AND STOCKPILES (SHEET G-5)
 - QUERCUS AGRIFOLIA (COAST LIVE OAK): 3 ACORNS/ PLANTING PIT - 26 LOCATIONS. SEE L-07 FOR PLANTING METHOD. SEE SPECIFICATIONS.
 - ◇ QUERCUS LOBATA (VALLEY OAK): 3 ACORNS/ PLANTING PIT - 11 LOCATIONS. SEE L-07 FOR PLANTING METHOD. SEE SPECIFICATIONS.
 - P&P EXISTING TREES AND VEGETATION TO BE PRESERVED & PROTECTED. VERIFY LIMITS IN FIELD.
- SHRUBS**
- | WUC | CODE | BOTANICAL NAME | COMMON NAME | SIZE |
|-----|------|---------------------|-------------|--------|
| L | BPI | BACCHARIS PILULARIS | COYOTE BUSH | 5 GAL. |

NATIVE GRASS SEED MIX

BOTANICAL NAME	COMMON NAME	RATE / ACRE (lbs/acre)	MIN. GERMINATION
ELYMUS X TRITICUM 'REGREEN'	STERILE WHEATGRASS (SYNTHETIC)	20	60
BROMUS CARINATUS (SC)	NATIVE CALIFORNIA BROME	10	45
ELYMUS GLAUCUS (SC)	BLUE WILDRYE	10	45
HORDEUM BRACHYANTHERUM (MARIN CO.)	MEADOW BARLEY	7.5	45
LASTHENIA CALIFORNICA (SC)	GOLDFIELDS	0.5	40
LUPINUS NANUS (SC)	SKY LUPINE	3.0	40

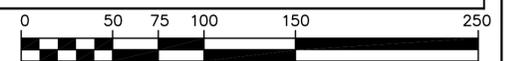
NOTES

- Project limits for weed control, as described in the specifications, include all planting areas plus (5) five feet buffer beyond the planting areas.
- Acorn planting shall be minimum 3'-0" above and 10'-0" away from 100 Year Design WSL.

Soil Removal Stockpile & Placement Table

Dwg Code	Description	Removal			Stockpile			Placement (North Basin)		
		Area (SF)	Depth (FT)	Vol (CY)*	Area (SF)	Height (FT)	Vol (CY)**	Area (SF)	Depth (FT)	Vol (CY)
A	Low Permeability Soil See Sheets D-5 & D-6 See Sheet G-5B See Sheet L-02	206,453	0.60	4,603	20,218	6.00	4,493			
		(new seasonal wetland, bottom 2 layers)						39,204	1.00	1,452
		(north basin bottom outside seasonal wetland, bottom layer)						158,296	0.50	2,931
B	Moerate Permeability Soil See Sheets D-5 & D-6 See Sheet L-02 See Sheet L-02	130,677	0.79	3,840	25,305	4.00	3,749			
		(new seasonal wetland, top layer)						39,204	0.50	726
		(north basin bottom outside seasonal wetland, top layer)						158,296	0.50	2,931

* Including 5.0% wastage
 ** Including 2.5% wastage
 *** New seasonal wetland 0.90 acres per revised MMP 2016



REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
1	ADDENDUM NO. 5	8/16	AP	

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 DESIGN: A. PAL
 DRAWN: H. SHETH
 CHECKED: M. BELLINGER
 PROJECT ENGINEER: M. BELLINGER
 DATE: 08/18/16

ENGINEERING CERTIFICATION
 M. BELLINGER
 08/18/16

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER: M. BELLINGER
 DATE: 08/18/16

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO PLANTING PLAN - SOUTH BASIN

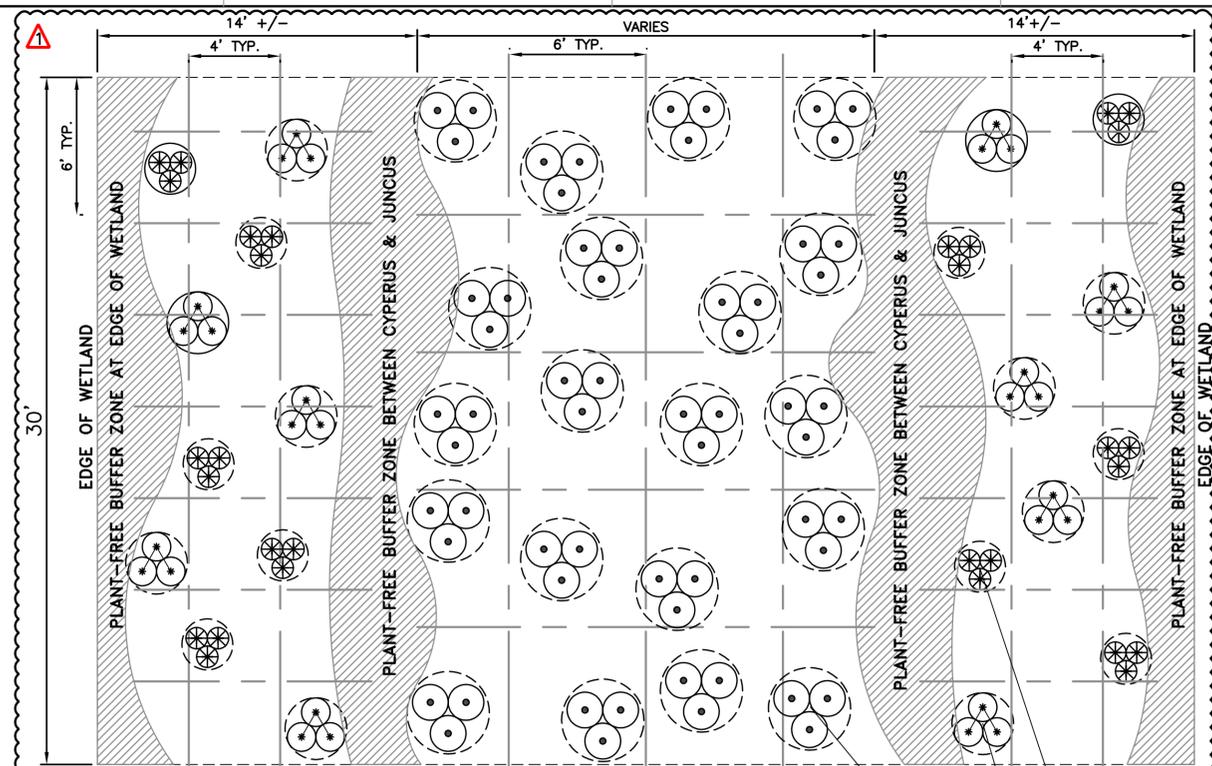
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 SHEET CODE: L-05
 SHEET NUMBER: 94 OF 107

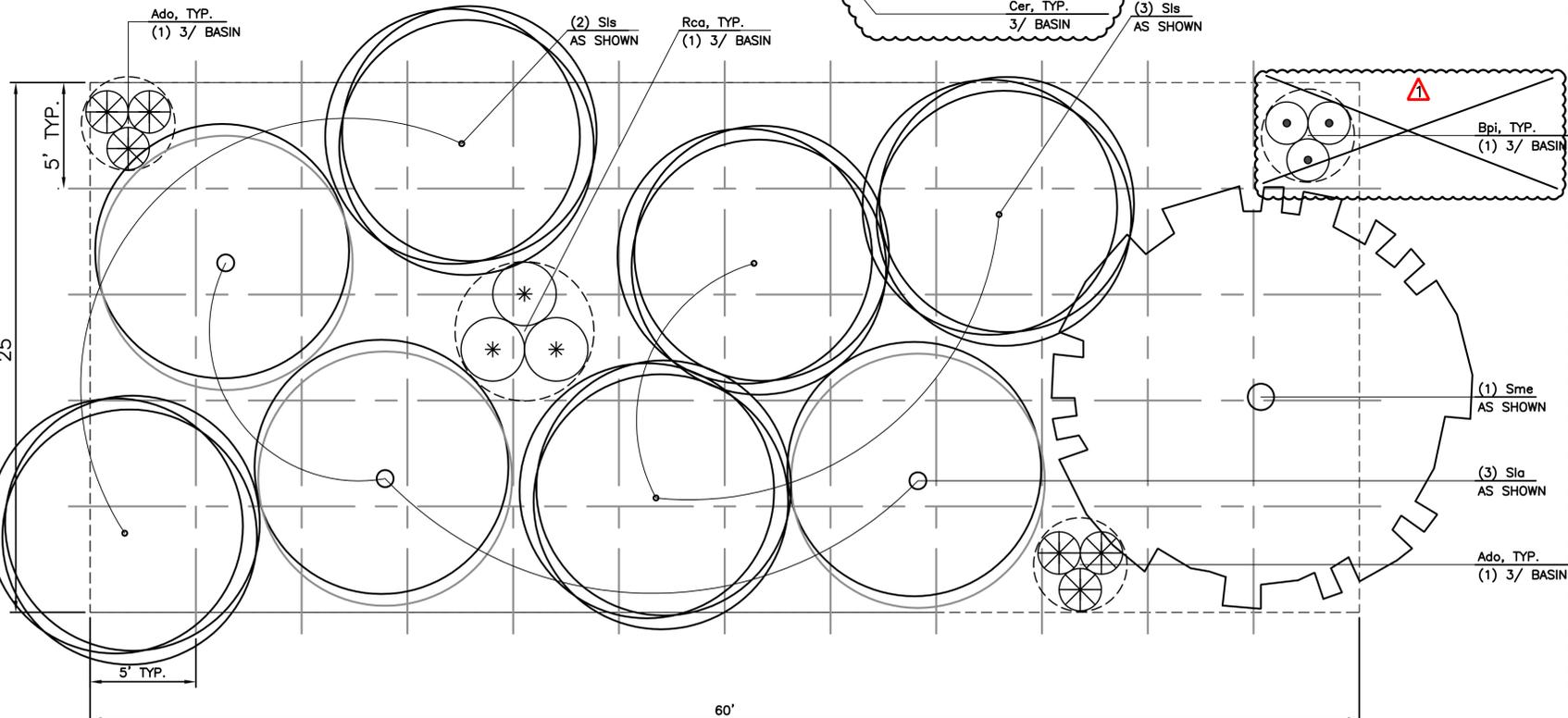
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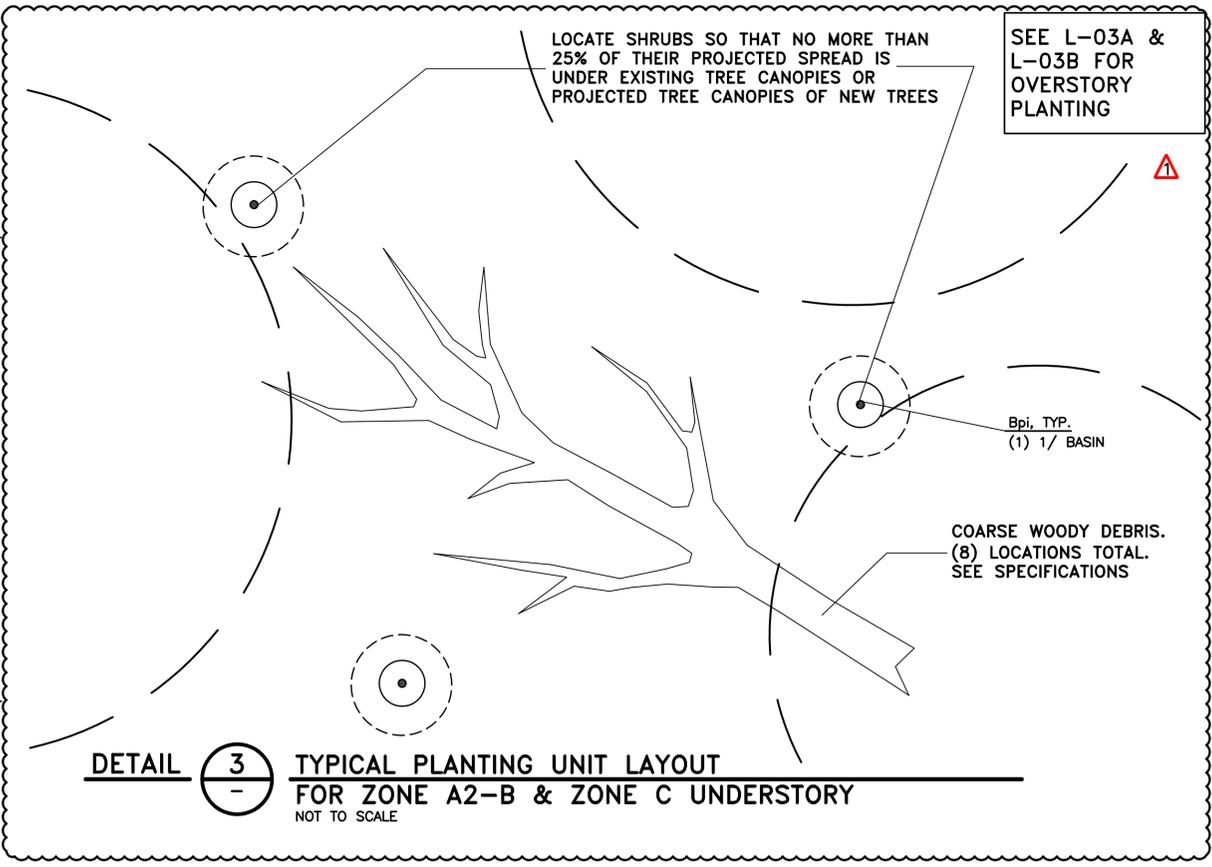


DETAIL 1 TYPICAL PLANTING UNIT LAYOUT FOR SEASONAL WETLAND (30 LF)
1"=4'-0"



DETAIL 2 TYPICAL PLANTING UNIT LAYOUT FOR RIPARIAN ZONE A2-A OVERSTORY & UNDERSTORY (1500 SF)
1"=4'-0"

Planting Zone	Area (Acres)	Species			Average Zone Plant Spacing	Percent of Planting Zone	Container Plants		Cutting Quantity	Large Seed & Acorn Quantity	Notes	Plant Cage	Total Trees/Plants
		Plant Code	Botanical Name	Common Name			Container	Quantity					
Riparian Zone A2-A - Overstory	0.5	Sls	<i>Salix laurifolia</i>	Red willow	12'	25			38			Yes	38
		Sls	<i>Salix lasiolepis</i>	Arroyo willow	12'	50			76			Yes	76
		Sme	<i>Sambucus mexicana</i>	Elm alderberry	20'	25	TREEPOT 4	14				Yes	14
Riparian Zone A2-A - Understory	0.5	Acc	<i>Artemisia douglasiana</i>	Yuccowit	Clusters of 3, 2' Plant Spacing, 20' between clusters	40	DEEPOT 16	66				No	66
		Bp	<i>Eaccharis ovalata</i>	Coyote brush	1 plant per basin, 20' between plants	30	DEEPOT 16	17				Yes	17
		Rca	<i>Rosa californica</i>	California wild rose	Clusters of 3, 3' Plant Spacing, 20' between clusters	30	DEEPOT 16	51				Yes	51
Riparian Zone A2-B - Overstory	0.72	Acc	<i>Aesculus californica</i>	California buckeye	As Shown on Drawings	24				19	1 large seed/planting pit	Yes	19
		Qag	<i>Quercus agrifolia</i>	Coast live oak	As Shown on Drawings	61				144	2 acorns/planting pit	Yes	48
		Qo	<i>Quercus chrysolepis</i>	Valley oak	As Shown on Drawings	15				36	2 acorns/planting pit	Yes	12
Riparian Zone A2-B - Understory	0.72	Bp	<i>Eaccharis ovalata</i>	Coyote brush	1 plant per basin, 20' between plants	100	DEEPOT 16	78				Yes	78
Seasonal Wetland Zone A1	0.9	Cer	<i>Cyperus eragrostis</i>	Tall flatsedge	Clusters of 3, 1' Plant Spacing, 6' between clusters	50	TREEBAND	1,635				No	1,635
		Jca	<i>Juncus patens</i>	Common reed	Clusters of 3, 1' Plant Spacing, 4' between clusters	25	TREEBAND	819				No	819
		Jxi	<i>Juncus xiphioides</i>	Red-leaved reed	Clusters of 3, 1' Plant Spacing, 4' between clusters	25	TREEBAND	819				No	819
Red Legged Frog Enhancement Habitat Zone C	1.7	Bp	<i>Eaccharis ovalata</i>	Coyote brush	1 plant per basin, 20' between plants	100	DEEPOT 16	74				Yes	74



DETAIL 3 TYPICAL PLANTING UNIT LAYOUT FOR ZONE A2-B & ZONE C UNDERSTORY
NOT TO SCALE

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
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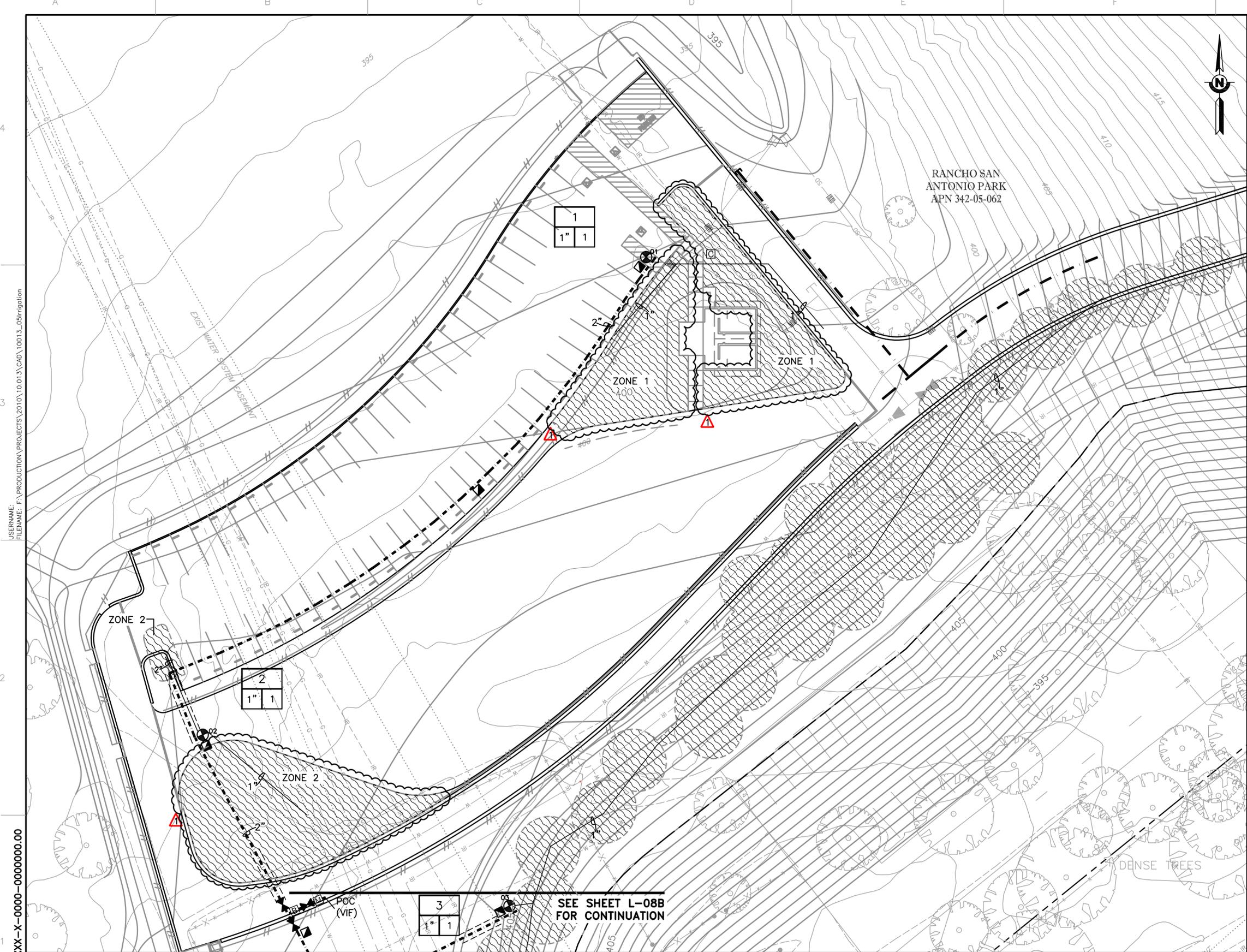
DATE: 06-22-16
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 DRAWN: H. SMITH
 CHECKED: M. BELLINGER
 PROJECT ENGINEER DATE: 08/18/16

ENGINEERING CERTIFICATION
 M. BELLINGER 08/18/16

Santa Clara Valley Water District
 ACCEPTED BY DISTRICT
 PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
PERMANENTE CREEK FLOOD PROTECTION PROJECT
 RANCHO SAN ANTONIO
 TYPICAL PLANTING UNIT LAYOUTS -
 SEASONAL WETLAND & RIPARIAN AREA

SCALE: AS SHOWN
 PROJECT NUMBER: 26244001
 SHEET CODE: L-07
 SHEET NUMBER: 96 OF 107



RANCHO SAN ANTONIO PARK
APN 342-05-062



SEE L-09 FOR IRRIGATION LEGEND AND NOTES



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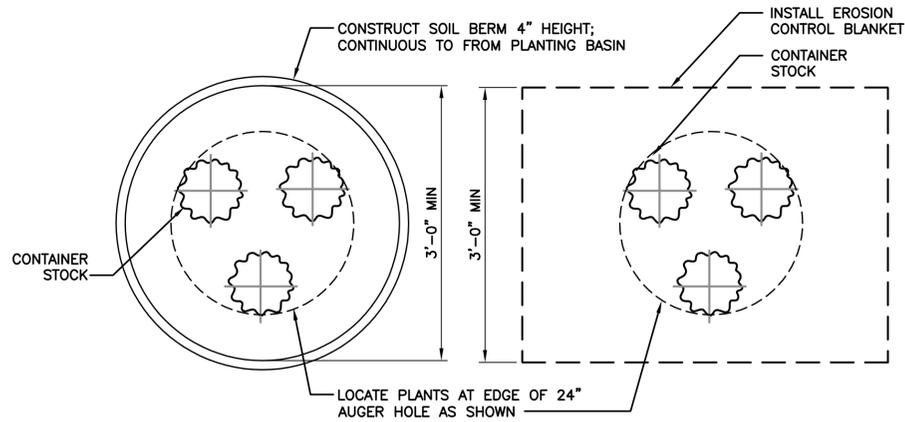
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CHECKED	M. BELLINGER

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M. BELLINGER
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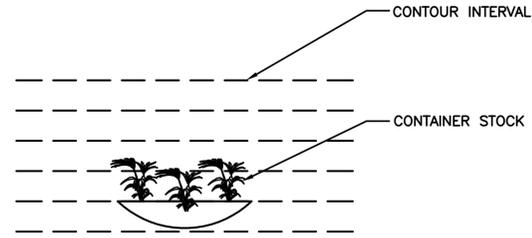
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PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO IRRIGATION PLAN

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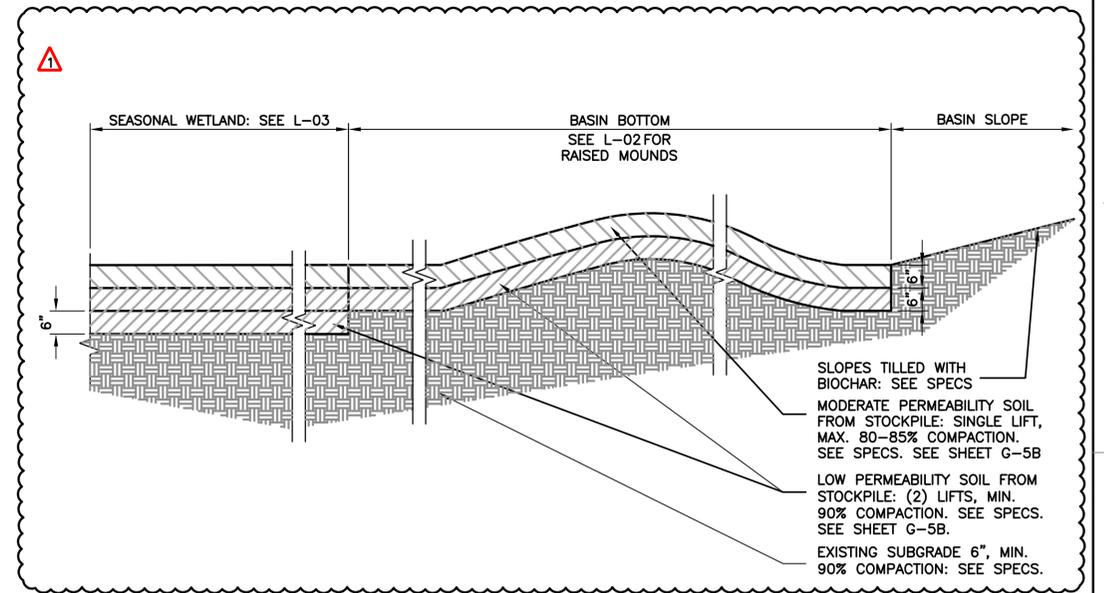
NOTES: 1. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE WEED-FREE ZONE WITHIN PLANTING BASIN

DETAIL 1 CONTAINER PLANTING IN CLUSTERS (TYP PLAN)
NO SCALE

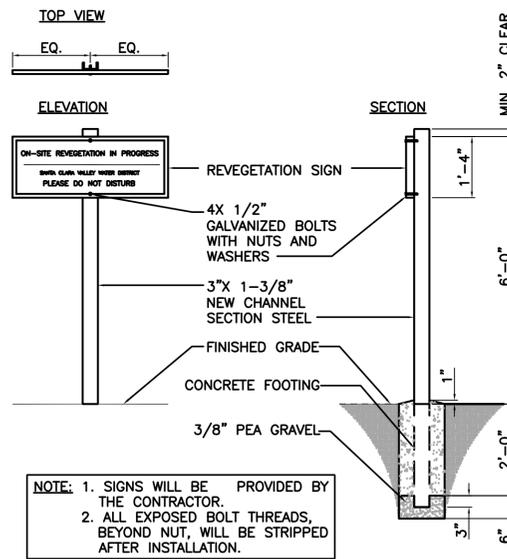


NOTES: 1. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION
2. PROVIDE WEED-FREE ZONE WITHIN PLANTING BASIN
3. CONTAINER PLANTS FOR SPECIES TO BE PLANTED IN CLUSTERS OF 3 PLANTS. PLANTS WITHIN EACH CLUSTER SHALL BE PLANTED ALONG THE SAME SLOPE CONTOUR LINE.
4. CLUSTERS SHALL CONSIST OF ONE BASIN APPROXIMATELY 6' LONG.

DETAIL 3 CLUSTER PLANTINGS (SLOPED SURFACES)
NO SCALE



DETAIL 5 NORTH BASIN BOTTOM SECTION
NO SCALE



NOTE: 1. SIGNS WILL BE PROVIDED BY THE CONTRACTOR.
2. ALL EXPOSED BOLT THREADS, BEYOND NUT, WILL BE STRIPPED AFTER INSTALLATION.

DETAIL 4 REVEGETATION SIGN
NO SCALE

DETAIL 2 NOT USED
NO SCALE

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DATE	ENGINEERING CERTIFICATION
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A. PAL	
DRAWN	
H. SHETH	
CHECKED	
M. BELLINGER	PROJECT ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

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PERMANENTE CREEK FLOOD PROTECTION PROJECT

RANCHO SAN ANTONIO MITIGATION PLANTING DETAILS

SCALE	PROJECT NUMBER
AS SHOWN	26244001
VERIFY SCALES	SHEET CODE:
0 1"	L-16 ▲
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	106 OF 107

**PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN**

ADDENDUM NO. 5

ATTACHMENT 4:

Monitoring Well Summary Table

MONITORING WELL SUMMARY TABLE
Permanente Creek Project - Rancho San Antonio
San Jose, California

		RS-B-3	RS-B-4
	Surface Elevation (ft. NAVD88)	414.5	410.4
	Depth to PVC (ft)	0.15	0.35
	Top PVC Elevation (ft)	414.4	410.1
	Installation Date	6/28/2011	8/5/2010
Monitoring Date (Month-Yr)		Groundwater Depth (ft)	
	Readings by	RS-B-3	RS-B-4
Oct-10	HMM		9.6
November-10	HMM		9.9
Dec-10	HMM		10.1
Jan-11	HMM		6.0
February-11	HMM		6.4
Mar-11	HMM		4.6
Apr-11	HMM		4.3
Jul-11	HMM	19.3	7.3
Oct-11	HMM	19.8	8.0
Jan-12	HMM	20.0	8.4
Jul-12	HMM	19.8	8.1
Aug-16	SCVWD	15.5	9.5
Monitoring Date (Month-Yr)		Groundwater Elevation (ft)	
	Readings by	RS-B-3	RS-B-4
Oct-10	HMM		400.8
November-10	HMM		400.5
Dec-10	HMM		400.4
Jan-11	HMM		404.5
February-11	HMM		404.0
Mar-11	HMM		405.8
Apr-11	HMM		406.2
Jul-11	HMM	395.3	403.1
Oct-11	HMM	394.7	402.4
Jan-12	HMM	394.5	402.1
Jul-12	HMM	394.7	402.3
Aug-16	SCVWD	399.0	400.9



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FACSIMILE (408) 979-5631
www.valleywater.org
scvwdplanroom@valleywater.org

*Notification of this Addendum is transmitted via email to all current plan holders.
This Addendum is posted on the District website at
www.valleywater.org/Programs/Construction.aspx.*

August 29, 2016

**ADDENDUM NO. 6
TO CONTRACT DOCUMENTS FOR THE
PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN
Project No. 26244001; Contract No. C0617**

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

BID DOCUMENTS

Title Page

REPLACE the text that reads "Bid Opening: August 31, 2016" with the following text "Bid Opening: September 14, 2016."

NOTICE TO BIDDERS

REPLACE Paragraph 1. with:

- "1. Notice.** Notice is hereby given that sealed Proposals will be accepted by the Construction Program of the Santa Clara Valley Water District, Room B108, of the District's Administration Building, 5750 Almaden Expressway, San Jose, California 95118 up to 2 p.m. on **September 14, 2016**, for furnishing all material and performing all work necessary for construction of the Permanente Creek Flood Protection Project – Rancho San Antonio Detention Basin (Project), in the City of Cupertino, California."

THIS ADDENDUM NO. 6, WHICH CONTAINS 1 PAGE, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

Melanie Richardson, P.E.
Deputy Operating Officer
Watershed Design and Construction Division

Date: 8-29-16

**ADDENDUM NO. 6
PERMANENTE CREEK FLOOD PROTECTION PROJECT
RANCHO SAN ANTONIO DETENTION BASIN**

Page 1 of 1



CAPITAL PROGRAM SERVICES
5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 630-3088
FACSIMILE (408) 979-5631
www.valleywater.org
scvwdplanroom@valleywater.org

*Notification of this Addendum is transmitted via email to all current plan holders.
This Addendum is posted on the District website at
www.valleywater.org/Programs/Construction.aspx.*

September 8, 2016

ADDENDUM NO. 7
TO CONTRACT DOCUMENTS FOR THE
PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN
Project No. 26244001; Contract No. C0617

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

BID DOCUMENTS

BID FORM No. 1 Proposal Form and Bid Items

REPLACE BID FORM NO. 1 Proposal Form and Bid Items with BID FORM NO. 1 (REV 3) Proposal Form and Bid Items (Attachment 1)

SPECIFICATIONS AND CONTRACT DOCUMENTS

SPECIAL PROVISIONS

Section 18. ENVIRONMENTAL

Article 18.11.01 Removal of Contaminated Soil

REPLACE Paragraph F. in its entirety with:

- "F. Phytosphora-impacted soil and sludge from the truck wash settling tanks must be removed from the project site. Stockpiling of phytosphora-impacted soil and sludge onsite will not be allowed."

Section 20. EARTHWORK

Article 20.01.02 Description of Bid Items

REPLACE Bid Items No. 45 and No. 46 with:

- "Bid Item No. 45 – Flush PCC Curb (edge block) in Parking Lot
Bid Item No. 46 – Restroom Walkway and Sidewalk"

TECHNICAL PROVISIONS

Section 24. EARTHWORK

Article 24.01. Basin Excavation and Grading and Basin Excavation – Phytophthora Impacted—Bid Item No. 31 and 32

C. Testing and Submittals

DELETE Item 5. in its entirety. (Addendum 5)

Article 24.06. Place Embankment (Engineered Fill) —Bid Item No. 36

C. Testing and Submittals

DELETE the last sentence of Item 2.

ADD Item 3. as follows:

“3. If Imported Earth fill Material is used, Contractor shall comply with the requirements of Article 6.36 of these Specifications.”

Article 24.08. Structural Backfill

C. Testing and Submittals

REPLACE Item 4. with:

“4. Structural backfill may be imported. Contractor shall comply with the requirements of Article 6.36 of these Specifications.”

Article 24.10. Trench Backfill

C. Testing and Submittals

REPLACE Item 3. with:

“3. Contractor shall comply with the requirements of Article 6.36 of these Specifications regarding import trench backfill.”

Article 24.12. Bedding Material

C. Testing and Submittals

REPLACE Item 2. with:

“2. Bedding material may be imported. Contractor shall comply with the requirements of Article 6.36 of these Specifications.”

Article 24.13. Drainage Material

C. Testing and Submittals

REPLACE Item 1. with:

“1. Drainage material may be imported. Contractor shall comply with the requirements of Article 6.36 of these Specifications.”

Article 24.14. Class 2 Aggregate Base —Bid Item No. 37

D. Submittals

REPLACE Item 1. with:

“1. Class 2 Aggregate Base may be imported. Contractor shall comply with the requirements of Article 6.36 of these Specifications.”

Article 24.15. Class 3 Aggregate Base —Bid Item No. 38

D. Submittals

REPLACE Item 1. with:

“1. Class 3 Aggregate Base may be imported. Contractor shall comply with the requirements of Article 6.36 of these Specifications.”

Section 29. DRAINAGE FACILITIES

Article 29.02. Corrugated Metal Pipe (CMP) —Bid Items No. 75-78

B. Materials

REPLACE Item 1. with:

- “1. Corrugated metal pipe shall be galvanized steel in accordance with Section 66-1.02E of the State Specifications.
- a. 24-inch and 36-inch corrugated metal pipe shall be a minimum 12-gauge.
 - b. 84-inch corrugated metal pipe shall be a minimum 10-gauge.”

D. Testing

ADD Item 2. as follows:

“2. Hydrostatic testing is not required for normal or soiltight joints.”

GENERAL QUESTIONS & RESPONSE

QUESTION 1.	<p>RE: Article 24.06. From Appendix B of the Geotech Report, it appears that none of the native soils samples achieve the required 40% clay content. Furthermore, the soils samples do NOT provide any info on Liq Limit or Plastic Limit (or PI). Is it Owner's intent that the Contractor import the Engineered Fill since native material does not meet specified requirements? If so, should a bid item be made for Import of Engineered Fill?</p>
RESPONSE 1.	<p>Per Article 24.06.B.1, "Material for Place Embankment (Engineered Fill) construction shall be suitable material from basin excavation or structural excavation."</p> <p>The project documents have assumed, based upon available geotechnical data, that soil matching this specification is available on-site, or can be mixed/blended to conform to the specification. If the on-site soils cannot meet these requirements, this will be evaluated during construction.</p> <p>The data provided in Appendix B was from testing performed on appropriate soil samples, based upon classified soil types. Liquid Limit and Plastic Limit info can be found on PLATE NO: B-2.</p>
QUESTION 2.	<p>It is unclear from Section 29.02 whether the Contractor is required to hydro-test the 84" CMP line. Please clarify.</p>
RESPONSE 2.	<p>Hydrostatic testing is not required for normal or soiltight joints.</p>
QUESTION 3.	<p>Is it possible to treat the wash water from the truck wash for the phytophthora-impacted area with chlorine, etc...?</p>
RESPONSE 3.	<p>Yes. Treated wash water can be re-used to wash additional trucks/equipment per the manufacturer's guidelines. However, the wash water must ultimately be disposed of in accordance to Article 24.01.</p>
QUESTION 4.	<p>The Bid Item for Coarse Woody Debris in Addendum 5 is missing from the Bid Form.</p>
RESPONSE 4.	<p>See Bid Item No. 122 per this Addendum No. 7.</p>

THIS ADDENDUM NO. 7, WHICH CONTAINS 5 PAGES AND 1 ATTACHMENT, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.



Christopher Hakes, P.E.
acting for
Melanie Richardson, P.E.
Deputy Operating Officer
Watershed Design and Construction Division

Date: 9/8/16

Enclosure(s):

ATTACHMENT 1: BID FORM NO. 1 (REV 3) Proposal Form and Bid Items

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**PERMANENTE CREEK FLOOD PROTECTION PROJECT-
RANCHO SAN ANTONIO DETENTION BASIN**

ADDENDUM NO. 7

ATTACHMENT 1:

BID FORM NO. 1 (REV 3) Proposal Form and Bid Items



*This form must be completed in **ink** and changes must be **initialed**.*

Honorable Board of Directors
 Santa Clara Valley Water District (District)

Pursuant to, and in compliance with, the Notice to Bidders and the Contract Documents, relating to the **PERMANENTE CREEK FLOOD PROTECTION PROJECT-RANCHO SAN ANTONIO DETENTION BASIN**, the undersigned Bidder having become thoroughly familiar with the terms and conditions of the Contract Documents and with local conditions affecting the performance and costs of the Work and having fully inspected the Work site in all particulars, hereby proposes and agrees to fully perform the Work, including providing any and all labor and materials and performing all Work required to construct and complete said Work within the contract time stated and in accordance with the requirements of the Contract Documents, for the following sum of money.

The undersigned Bidder agrees to complete all the Work within **1,892** calendar days from the first chargeable day of the Contract, as stated in the Notice to Begin Work. The Bidder agrees to enter into a Contract with the District and provide the required bonds and insurance in accordance with Articles 4.03. & 4.04. of the Standard Provisions. If the Bidder fails to meet these requirements within the time specified in Article 4.04 of the Standard Provisions the Bidder's security accompanying this Proposal may be forfeited and become the property of the District. No Contract exists until all Contract bonds and insurance documents have been accepted by the District.

TOTAL BID: \$ _____

Bidder acknowledges receipt of the following Addenda to the Bid Documents:
 Addenda are posted online at www.valleywater.org/Programs/Construction.aspx.

NO Addenda received

Addenda received as follows:

Addendum No. _____	Date _____	Addendum No. _____	Date _____
Addendum No. _____	Date _____	Addendum No. _____	Date _____

Failure to acknowledge receipt of an Addendum on the Bid Form is not, in itself, cause for withdrawal or rejection of Bid, if it can be established that Bidder did, in fact, receive such Addendum prior to Bid opening.

The undersigned Bidder has read and understands, and will comply with, each and all of the requirements specified in these Bid Documents.

BIDDER'S COMPANY INFORMATION	
NAME:	ADDRESS:
CONTRACTOR'S CALIFORNIA LICENSE NUMBER:	
DATE OF EXPIRATION:	
LICENSE CLASSIFICATION(S):	
PHONE No.: ()	FAX No.: ()
EMAIL ADDRESS:	

SIGNATURE BLOCK (Signature Block must be completed in <i>ink</i> and changes must be <i>initialed</i>.)	
Bidder's Signature:	Date:
Bidder's Name and Title (Print):	



*This form must be completed in **ink** and changes must be **initialed**.*

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
1	Professionally-facilitated Project Partnering	<u>Lump Sum</u> Lump Sum		
2	Vibration Monitoring	<u>Lump Sum</u> Lump Sum		
3	Spillage and Dust Control	<u>Lump Sum</u> Lump Sum		
4	Compliance with NPDES General Permit	<u>Lump Sum</u> Lump Sum		
5	Migratory Birds	<u>Lump Sum</u> Lump Sum		
6	Mobilization / Demobilization	<u>Lump Sum</u> Lump Sum		
7	Preservation (ESA) Fence Riparian Area	<u>1,510</u> Linear Feet		
8	Tree Protection Fence	<u>1,200</u> Linear Feet		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
9	Temporary Visual Screening Fence	5,000 Linear Feet		
10	Temporary Silt Fence	1,500 Linear Feet		
11	Temporary Fiber Roll	24,540 Linear Feet		
12	Exclusion Fence (Animal Exclusion)***	10,155 Linear Feet		
13	Clearing and Grubbing	Lump Sum Lump Sum		
14	Remove Tree	120 Each		
15	Remove Concrete Box Culvert and Wing Walls	Lump Sum Lump Sum		
16	Remove Asphalt Concrete and Base	33,700 Square Feet		

***Potential Bidders shall note that the Exclusion Fence (Animal Exclusion) fence quantity in the Bid Schedule is greater than that shown on the current plans. Animal Exclusion fence shall be extended to include Haul Route to UPRR tracks and to surround South Basin. Bidders shall use Bid Schedule quantity.

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
17	Remove Gravel and Base	<u>22,501</u> Square Feet		
18	Remove Curb Opening	<u>Lump Sum</u> Lump Sum		
19	Remove Wood Curb and Parking Bumpers	<u>Lump Sum</u> Lump Sum		
20	Remove AC Curb and Concrete Bumpers	<u>Lump Sum</u> Lump Sum		
21	Relocate Wood Fence All Types	<u>2,805</u> Linear Feet		
22	Relocate Locking Gate	<u>1</u> Each		
23	Relocate Farm Gate and Equestrian Gate	<u>1</u> Each		
24	Relocate Signs	<u>Lump Sum</u> Lump Sum		
25	Relocate Foldable Bollard	<u>1</u> Each		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
26	Temporary Cemetery Maintenance Access Road	<u>Lump Sum</u> Lump Sum		
27	Hammond-Snyder House Documentation	<u>Lump Sum</u> Lump Sum		
28	Haul Route Preparation/Restoration	<u>Lump Sum</u> Lump Sum		
29	Allowance for UPRR Crossing Restoration	<u>Lump Sum</u> Lump Sum	\$25,000	\$25,000
30	Dewatering (Control of Water)	<u>Lump Sum</u> Lump Sum		
31	Basin Excavation and Grading	<u>188,799</u> Cubic Yards		
32	Basin Excavation - Phytophthora Impacted	<u>3,276</u> Cubic Yards		
33	Finish Grading of Slopes	<u>13</u> Acre		
34	Remove and Stockpile Soil	<u>8,445</u> Cubic Yards		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
35	Soil Placement	<u>8,040</u> Cubic Yards		
36	Place Embankment (Engineered Fill)	<u>29,700</u> Cubic Yards		
37	Class 2 Aggregate Base	<u>2,510</u> Cubic Yards		
38	Class 3 Aggregate Base	<u>970</u> Cubic Yards		
39	Rock Slope Protection (Facing, Method B)	<u>8</u> Cubic Yards		
40	Rock Slope Protection (Light, Method B)	<u>140</u> Cubic Yards		
41	Rock Slope Protection (1/4 TON, Method B)	<u>260</u> Cubic Yards		
42	Rock Slope Protection, Rock Wiers (1/4 TON, Method A)	<u>18</u> Cubic Yards		
43	Geotextile Fabric	<u>2,857</u> Square Yards		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
44	Monolithic Curb and Gutter and Valley Gutter	<u>46</u> Linear Feet		
45	Flush PCC Curb (edge block) in Parking lot	<u>765</u> Linear Feet		
46	Restroom Walkway and sidewalk	<u>350</u> Square Feet		
47	Install Wheel Stops	<u>59</u> Each		
48	Septic Tanks and Effluent Pump Station Tank	<u>Lump Sum</u> Lump Sum		
49	Effluent Pump System	<u>Lump Sum</u> Lump Sum		
50	Plastic (PVC) Pressure Pipe	<u>175</u> Linear Feet		
51	Plastic (PVC) Sewer Pipe	<u>130</u> Linear Feet		
52	At-Grade System	<u>Lump Sum</u> Lump Sum		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
53	Restroom Building	<u>Lump Sum</u> Lump Sum		
54	1-1/2 inch PVC Pipe	<u>345</u> Linear Feet		
55	2 inch PVC Pipe	<u>1,610</u> Linear Feet		
56	4 inch PVC Pipe	<u>1,080</u> Linear Feet		
57	1-1/2 inch Water Service	<u>1</u> Lump Sum		
58	Traffic Control	<u>Lump Sum</u> Lump Sum		
59	UPRR Coordination - Flagging	<u>Lump Sum</u> Lump Sum		
60	Traffic Striping	<u>5,175</u> Linear Feet		
61	Pavement Markings	<u>1,220</u> Square Feet		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
62	Foldable Bollards	<u>2</u> Each		
63	Concrete Barrier Type 732	<u>134</u> Linear Feet		
64	Concrete Barrier Type 60S	<u>30</u> Linear Feet		
65	Metal Beam Guard Rail	<u>400</u> Linear Feet		
66	Asphalt Concrete Type A	<u>1,415</u> Ton		
67	Place AC Dike	<u>1,931</u> Linear Feet		
68	Open Graded Asphalt Concrete	<u>467</u> Ton		
69	Class 2 Permeable Aggregate Base	<u>175</u> Cubic Yards		
70	Stabilized Aggregate Pavement	<u>5,300</u> Square Feet		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
71	Armoring Aggregate	<u>320</u> Cubic Yards		
72	1/2 Inch Crushed Aggregate	<u>52</u> Cubic Yards		
73	2 Inch Crushed Aggregate	<u>653</u> Cubic Yards		
74	12 Inch Reinforced Concrete Pipe	<u>270</u> Linear Feet		
75	North Basin Inlet Pipe - 84" CMP	<u>1,438</u> Linear Feet		
76	North Basin Outlet Pipe - 24" CMP	<u>234</u> Linear Feet		
77	South Basin Inlet Pipe - 36" CMP	<u>28</u> Linear Feet		
78	South Basin Outlet Pipe - 24" CMP	<u>215</u> Linear Feet		
79	36 Inch Corrugated Steel Pipe (CSP) Riser	<u>28</u> Linear Feet		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
80	12 ft x 6 ft Concrete Box Culvert	<u>Lump Sum</u> Lump Sum		
81	Control Structure	<u>Lump Sum</u> Lump Sum		
82	Impact Stilling Basin Structure	<u>Lump Sum</u> Lump Sum		
83	Headwall w/wingwalls and Debris Rack	<u>Lump Sum</u> Lump Sum		
84	CMP Riser w/Debris Rack Cage	<u>Lump Sum</u> Lump Sum		
85	Drainage Inlet, Type G1 Drop Inlet	<u>6</u> Each		
86	Drainage Inlet, Type C-4 Inlet with Gallery	<u>1</u> Each		
87	Electrical - Irrigation Well	<u>Lump Sum</u> Lump Sum		
88	Electrical - Restroom Building Site	<u>Lump Sum</u> Lump Sum		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
89	Wood Fence Type 1	<u>660</u> Linear Feet		
90	Wood Fence Type 3	<u>2,115</u> Linear Feet		
91	Install Relocated Wood Fence Type 1	<u>785</u> Linear Feet		
92	Install Relocated Wood Fence Type 2	<u>766</u> Linear Feet		
93	Install Relocated Wood Fence Type 3	<u>1,255</u> Linear Feet		
94	Locking Gate	<u>2</u> Each		
95	Chain Link Fence and Gate, Type CL-6, With Lock	<u>50</u> Linear Feet		
96	Irrigation Well Construction	<u>Lump Sum</u> Lump Sum		
97	Irrigation Well Equipping	<u>Lump Sum</u> Lump Sum		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
98	Irrigation Well Abandon and Removal	<u>Lump Sum</u> Lump Sum		
99	Irrigation	<u>Lump Sum</u> Lump Sum		
100	Site Planting Preparation	<u>23.6</u> Acre		
101	Erosion Control Blanket	<u>8,266</u> Square Yards		
102	Bioretention Soils	<u>265</u> Cubic Yards		
103	Hydroseeding	<u>23.6</u> Acre		
104	Container Planting - Treepot and Deepot Planting (Riparian Mitigation, Frog Habitat)	<u>638</u> Each		
105	Container Planting - Treeband Planting (Seasonal Wetland)	<u>3,495</u> Each		
106	Container Planting - Shrub - 5 Gallon	<u>26</u> Each		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
107	Container Planting - Tree - 24 Inch Box Planting	9 Each		
108	Large Seed and Acorn Planting	79 Basin		
109	Cuttings	114 Each		
110	Establishment Maintenance - Parking Area	2 Month		
111	Establishment Maintenance - Hydroseed	6 Month		
112	Establishment Maintenance - Seasonal Wetland and Basin Slope (Maintenance and Watering)	3 Month		
113	Establishment Maintenance - Seasonal Wetland and Basin Slope (Maintenance Only)	33 Month		
114	Establishment Maintenance - Riparian and Frog Enhancement Habitat (Maintenance and Watering)	12 Month		
115	Establishment Maintenance - Riparian and Frog Enhancement Habitat (Maintenance Only)	24 Month		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
116	Weed Control	<u>36</u> Month		
117	Irrigation System Operation and Maintenance	<u>12</u> Month		
118	Signage and Markers	<u>1</u> Lump Sum		
119	2-1/2 inch PVC Pipe	<u>710</u> Linear Feet		
120	Temporary Noise Barrier	<u>1,600</u> Linear Feet		
121	Wood Fence Type 2	<u>410</u> Linear Feet		
122	Coarse Woody Debris	<u>8</u> Each		
TOTAL BASE BID				

SUPPLEMENTAL BID ITEMS

These Bid Items may or may not be required. They may be deleted entirely or in part, by deductive change order(s), at the sole discretion of the District

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
1	Plant Replacement - Treepot/Deepot Plant Replacement	351 Each		
2	Plant Replacement - Large Seed/Acorn Replacement	43 Each		
3	Plant Replacement - Cutting Replacement	63 Each		
4	Plant Irrigation by Event - Riparian and Frog Habitat Areas	1 Event		
5	Plant Irrigation by Event - Seasonal Wetland	1 Event		
6	Plant Irrigation by Event - Basin Slope Plantings	1 Event		

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
7	Re-hydroseeding	0.5 Acre		
TOTAL SUPPLEMENTAL BID				

TOTAL BID (Base Bid Subtotal + Supplemental Subtotal)	
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