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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.

November 8, 2018

ADDENDUM NO. 1
TO CONTRACT DOCUMENTS FOR THE
COYOTE WAREHOUSE PROJECT
Project No. 91234002

Contract No. C0635

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: November 14, 2018" with the following text "**Bid Opening: November 28, 2018**"

NOTICE TO BIDDERS

1. Notice.

REPLACE Paragraph 1. with:

"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 **Wednesday, November 28, 2018**."

3. Summary of Work.

ADD Paragraph 3.8.a.xvi:

"xvi. furnish and install Supplemental Bid Item pavement demolition and removal; Supplemental Bid Item pavement aggregate base; Supplemental Bid Item pavement asphalt; and, Supplemental Bid Item concrete removal and replacement with pavement drains."

4. Contract Time.

ADD Paragraph 4.E.1.d.

"d. Completion of Supplemental Bid Item paving demolition, subgrade recompaction, paving, concrete demolition, concrete and drainage."

6. Estimated Cost.

REPLACE Paragraph 6. in its entirety with:

"**Estimated Cost.** The estimated cost of the Project is between **$4.5 – $5 million**. This estimate is intended to serve merely as an indication of the magnitude of the work. Neither the Bidder(s) nor the Contractor will be entitled to pursue a claim or be compensated due to variance in the stated estimated cost range.

A. **Additive/Deductive Bid Items**. Not used.

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 the determine the lowest Bid price."

BID FORM NO. 1

Proposal and Bid Items

REPLACE BID FORM NO. 1 Proposal and Bid Items with Bid Form No.1. (Rev .1) Proposal and Bid Items (Attachment A).

SPECIFICATIONS AND CONTRACT DOCUMENTS

TABLE OF CONTENTS

SPECIAL PROVISIONS

ADD new article title to the Table of Contents:

"Article 14.17. Web-Based Construction Document Management"

TECHINICAL PROVISIONS

ADD new article title to the Table of Contents:

"Article 02501 Trench Drains, Catch Basins, Frames and Grates"

DELETE article 03100 Concrete Forms and Accessories in its entirety.

APPENDICES

ADD new APPENDIX title to table of contents

"APPENDIX K Statement of Special Inspections"

Article 12.01. Summary of Work

ADD 12.01.A.8.b. (16)

"(16) furnish and install Supplemental Bid Item pavement demolition and removal; Supplemental Bid Item pavement aggregate base; Supplemental Bid Item pavement asphalt; and, Supplemental Bid Item concrete removal and replacement with pavement drains."

REPLACE Paragraph12.01.A.8.C. (15) with:

"(15) approximately **25** raised concrete tree planters;"

Article 12.02. Drawings

ADD the following drawings to the list:

Page	Sheet Code	Sheet Description
60	**SC-01**	**ADDITIONAL PAVING SITE LAYOUT AND PLAN**
61	**SC-02**	**ADDITIONAL PAVING DETAILS AND SECTION**

Article 12.03. Contract Time(s)

REPLACE 12.03.A.2. in its entirety with:

"2. Milestone 2 (Stage 1): Minimum completion of the following work:

a. Completion and submittal of, Immediate Submittals.

b. Prepare and submit Storm Water Pollution Prevention Plan.

c. NOT USED"

REPLACE 12.03.A.3. in its entirety with:

"3. Milestone 3 (Stage 1): Minimum completion of the following work:

a. Obtain Building Permit from the City of Morgan Hill.

b. NOT USED

c. NOT USED"

REPLACE 12.03.A.4. in its entirety with:

"4. Milestone 4 (Stage 1): NOT USED"

REPLACE 12.03.A.5.d. in its entirety with:

"5. Milestone 5 (Stage 1): Minimum completion of the following work:

a. Obtain Certificate of Occupancy from City of Morgan Hill. At which time, the District may decide to use the facility before acceptance. See Article 11.01.01 Use before Acceptance.

b. Landscaping installation, including stormwater retention bio-swale, complete.

c. Removal of temporary fence separating project site from Coyote Pumping Plant.

d. Completion of Supplemental Bid Item pavement demolition and removal; Supplemental Bid Item pavement aggregate base; Supplemental Bid Item pavement asphalt; and, Supplemental Bid Item concrete removal and replacement with pavement drains. (Supplement Bid Items are pending on permit approvals.)"

REPLACE 12.03 A.6. in its entirety with:

"6. Milestone 6 (Stage 1): Minimum completion of the following work:

a. Submittal and favorable review of all remaining project closeout items required under the Contract, including, but not limited to as-builts, Guarantee Bond, release of claims, etc."

REPLACE 12.03.B.4. in its entirety with:

"4. NOT USED."

Article 12.05 Liquidated Damages

REPLACE 12.05.A.1 in its entirety with:

"1. NOT USED."

REPLACE 12.05. A.5 in its entirety with:

"5. NOT USED."

ADD 12.05.A.13:

"13. $1,000 per Day for failure to complete all Work of Milestone 3 within the time limit allowed."

ADD 12.05.A.14:

"14. $1,000 per Day for failure to complete all Work of Milestone 5 within the time limit allowed."

ADD 12.05.A.15:

"15. $1,000 per Day for failure to complete all Work of Milestone 7 within the time limit allowed."

Article 14.03.01 Engineer's Office

REPLACE 14.03.01.D. in its entirety with:

"D. The building or trailer shall be specifically designed for office facilities and shall not be less than 12 feet x 60 feet in the plan, with side walls not less than 8 feet high**."**

REPLACE 14.03.01.E. in its entirety with:

"E. The Contractor shall furnish and install two (2) tables or counters of not less than 6 feet x 2.5 feet each for use in viewing Drawings; three (3) desks with a top dimension of not less than 4 feet x 2.5 feet each; four (4) swivel chairs; one (1) wall-mounted, underwriter-laboratory-approved fire extinguisher 10# (ABC type); one (1) 16-unit first aid kit (the contents replenished as used); and two (2) two-drawer legal-size file cabinet. Adequate heat, light, electricity, and ventilation, including air conditioning, hot and cold drinking water, private telephone (four (4) lines) with a phone-answering system for messages, broadband Internet services, and toilet facilities shall be provided. The office shall have sufficient space and furniture for weekly and other conferences for up to 12 people to be held."

Article 14.07. District-Furnished Material and Equipment

REPLACE 14.07.A.2. in its entirety with:

"2. Juncus Patens/California Gray Rush shrubs: The District will provide two hundred and thirty-seven (237) 1-gallon Juncus Patens/California Gray Rush shrubs for the Contractor to install in the bioretention area as shown on Drawings GL-1 and L-02. The District will have the plants ready to be delivered to the site by September 1, 2019. The Contractor shall provide the District a minimum of 30 calendar days' notice prior to required delivery."

REPLACE 14.07.B.9. in its entirety with:

"9. provide all Material to join piping, conduits, boxes, etc., and incidental Material required for complete installation; and"

New Article 14.17. Web-Based Construction Document Management

ADD 14.17. Web-Based Construction Document Management

"A. The District utilizes EADOC to manage construction projects, track change orders, and review submittals. The Contractor shall utilize the District's EADOC (Web-Based Construction Document Management) system for submittals, requests for information, and contract change orders.**"**

ADD 14.17.01. Summary

"A. The Contractor, and its subcontractors and suppliers shall utilize EADOC for submission of all data and documents throughout the duration of the Contract, unless specified otherwise in the Contract Documents. The term "Copy" or "Copies" shall refer to electronic copies unless a hard copy is specified. Where a hard copy is specified, both electronic and paper versions shall be submitted:

1. EADOC is a web-based construction management application hosted by EADOC LLC. EADOC is a registered trademark of EADOC LLC.

2. EADOC is paid for by the District.

3. EADOC will be made available to all Contractor's personnel, subcontractor personnel and suppliers working under the Contract.

4. EADOC will be made available to all Contractor's personnel, subcontractor personnel and suppliers working under the Contract.

5. EADOC shall be the primary means of project information submission and management.

B. Related Sections:

1. Section 7 - Submittal Management.

2. Section 20 – Submittal and Quality Requirements

C. The Engineer will establish the Contractor's access to EADOC by allowing access and assigning user profiles to accepted Contractor personnel. User profiles will define levels of access into the system, and determine assigned function-based authorizations and user privileges to enter and access information in EADOC. Subcontractors and suppliers will be given access to EADOC by and through the Contractor. Entry of information exchanged and transferred between the Contractor and its subcontractors and suppliers on EADOC shall be the responsibility of the Contractor.

D. Within five (5) work days after receiving the Notice to Begin Work, the Contractor shall submit:

1. List of Contractor's personnel responsible for EADOC administration, as well as that for the Contractor's subcontractors and suppliers.

2. Include descriptions of key personnel's roles and responsibilities for this project. Contractor shall also identify its organization's administrator on the list.

E. Data entered in a collaborative mode (entered with the intent to share as determined by permissions and workflows within the EADOC system) by the Engineer and the Contractor will be jointly owned.

F. The Contractor is responsible for managing, tracking, and documenting the Work to comply with the requirements of the Contract Documents. The District's acceptance via automated system notifications or audit logs extends only to the face value of the submitted documentation and does not constitute validation of the Contractor's submitted information."

ADD 14.17.02. Computer and Connectivity Requirements

"A. The Contractor shall use computer hardware and software that meets the requirements of EADOC system as recommended by EADOC LLC and as described herein to access and utilize EADOC. As recommendations are modified by EADOC, the Contractor shall upgrade its system(s) to meet or exceed the recommendations. Upgrading of the Contractor's computer systems shall not be justification for a cost or time modification to the Contract.

B. The Contractor shall ensure that connectivity to the EADOC system is accomplished through DSL, cable, T-1 or wireless communications systems. The minimum bandwidth requirement for using the system is 128 kb/s. It is recommended that a faster connection be used when uploading pictures and files-into the system.

C. EADOC currently supports Mozilla's Firefox v3.0-3.6, Apple's Safari v3.0-5.0, and Microsoft's Internet Explorer v7.0-8.0 web browsers for accessing the application.

D. EADOC is a web-based environment and therefore, subject to the inherent speed and connectivity limitations of the Internet. The Contractor is responsible for its own connectivity to the Internet. EADOC response time is dependent on the Contractor's equipment, including processor speed, Internet access speed, etc. and current traffic on the Internet. The District will not be liable for any delays associated from the usage of EADOC including, but not limited to: slow response time, down time periods, connectivity problems, or loss of information. The Contractor shall ensure connectivity to the EADOC system (whether at the home office or job site). Under no circumstances will usage of EADOC be grounds for a time extension or cost adjustment to the Contract."

ADD 14.17.03. Contractor Responsibility

"A. Contractor shall be responsible for scanning or otherwise converting to electronic format all project submittals and Contractor correspondence, drawings, sketches, etc., and uploading them to the EADOC web site.

B. The Contractor shall be responsible for the validity of its information placed in EADOC.

C. Accepted users shall be knowledgeable in the use of computers, including Internet Browsers, email programs, CAD drawing applications, and Portable Document Format (PDF) document distribution program.

D. The Contractor shall utilize the existing forms in EADOC to the maximum extent possible. If a required form does not exist in EADOC, the Contractor shall include a form of its own or one provided by the Engineer (if available) as an attachment to a submittal.

E. PDF documents shall be created through electronic conversion rather than optically scanned whenever possible. If optically scanned, the document shall be converted through an OCR (Optical Character Reader) so that all documents are searchable. If the documents have multiple sections, then the Contractor shall provide a "bookmark" for each section. The Contractor is responsible for the training of its personnel in the use of EADOC (outside what is provided by the District) and the other programs indicated above as needed. The Contractor shall disable all security so that copying and pasting of information from the PDF document is enabled.

F. The Contractor shall provide a list of key EADOC personnel for the Engineer's acceptance. Contractor is responsible for informing the Engineer of additional personnel, subcontractors and suppliers to be added to the system, or of personnel, subcontractors and suppliers to be removed from the system. The Engineer reserves the right to perform a background check on all potential users."

ADD 14.17.04. Training

"A. The District will provide training consisting of two web-based seminars in conjunction with a conference call. Additionally, one classroom training seminar may also be required. The training seminars are 2 hours each.

B. Contractor shall arrange and pay for the facilities and hardware/software required to facilitate the Contractor's own training."

ADD 14.17.05. EADOC Utilization

"A. EADOC shall be utilized in connection with all document and information management required by these Contract Documents. Documents and information to be submitted electronically include, but are not limited to, the documents described below.

B. Submittals:

1. Submittals shall be in accordance with Article 7.05—Submittals to be Furnished by the Contractor and Article 20.01—Additional Submittal Requirements.

2. In addition to electronic copies transmitted via EADOC, the Contractor shall provide one hard copy of each favorably reviewed submittal. Favorable Review consists of those submittals returned to the Contractor with action marked as "No Exceptions Noted," "Make Corrections as Noted," or "In Receipt Of.

C. Administrative documents: All correspondence shall be submitted using EADOC. Examples include, but are not limited to:

1. Written correspondence (letters, memos, etc.).

2. Requests for Information (RFI).

3. Certified Payroll.

4. Survey Requests.

5. Compliance documentation (test reports, QA/QC reports, certifications).

D. Schedules:

1. All schedules and associated updates shall be submitted in accordance with Article 5.05—Progress Schedules.

2. All schedules and associated updates shall be submitted as specified in these Contract Documents and as a native backed-up file of the scheduling program being used. The schedule shall be posted as a PDF file in the format specified in these Contract Documents and as a backed-up file.

E. Operations and Maintenance Documents:

1. Operations and Maintenance Documents shall be submitted in accordance with Article 14.10—Operations and Maintenance Documents.

2. In addition to electronic copies transmitted via EADOC, the Contractor shall provide hard copies of each final favorably reviewed Operations and Maintenance submittal. The number of hard copies to be provided shall be as required in Article 14.10—Operations and Maintenance Documents.

F. Financial Documents:

1. Schedule of Values.

2. Monthly Applications for Payment.

3. Change Order Requests and Proposals.

4. Change Order supporting documentation, including Daily Extra Work Reports.

5. Requirements for Financial Documents shall be in accordance with Section 21 - Payment Procedures. Supporting material for Financial Documents shall be submitted on EADOC utilizing both the EADOC Schedule of Costs format and as PDF attachments."

Article 18.01.02 Contractor-Obtained Permits

REPLACE 18.01.02.A. in its entirety with:

"A. In addition to the permits listed in the Standard Provisions, the Contractor shall obtain all permits listed below:

1. City of Morgan Hill Building Permit

2. City of Morgan Hill Encroachment Permit

3. City of Morgan Hill Fire Department Permit"

REPLACE 18.01.02.D. in its entirety with:

"Payment for fees associated with the Contractor-obtained permits will be in accordance with Article 21.01.02.C.2."

Article 18.01.03 Operational Regulations

REPLACE 18.01.03.A. in its entirety with:

"A. All work is subject to the requirements of the "Coyote Warehouse Project Final Initial Study/Mitigated Negative Declaration", dated May 2017. The Contractor's attention is directed to Article 13.04.02 – 'Environmental Reports' for additional information."

Article 18.03.03 Vibration Monitoring

REPLACE 18.03.03.D. in its entirety with:

"D. The first vibration monitoring prior to the start of seismic activity shall establish the baseline for all subsequent recordings. The baseline recordings shall consist of uninterrupted recordings for a period of not less than 24 hours at the above listed locations. The Contractor shall have the Equipment in place and functioning properly at the affected properties prior to any construction activity. No activity occurring within this zone shall occur unless monitoring Equipment is functioning properly. The Equipment shall be set up in a manner such that an immediate warning is given when resultant peak particle velocity equal to or exceeding 0.5 inches per second is produced."

REPLACE 18.03.03.E. in its entirety with:

"E. Monitoring Equipment shall be stationed within three (3) feet of the exterior of the designated properties on the side facing the Contractor's Work site. A minimum of one (1) vibration monitor will be provided for each of the designated properties. The monitor may be placed on District property."

Article 18.05.01. Additional Dust Control and Air Monitoring Requirements

REPLACE 18.05.01. in its entirety with:

A. Reference is made to Appendix I Dust Control and Air Monitoring Requirements. Should any requirements listed herein differ from those in Appendix I, the stricter requirement shall govern.

B. Watering. Off-site emissions shall be controlled through a combination of dust control measures to minimize visible airborne dust emissions. This shall consist of a hose to be used continuously on soil during active soil work so as to minimize dust emissions. At a minimum, areas shall be adequately wetted every 2 hours and/or at a minimum 3 times per 8-hour shift. Watering may be increased during above average temperatures, when activities intensify or wind speeds.

This includes soil operation work areas, visibly dry disturbed soil surface areas, and visibly dry disturbed unpaved driveways. The contractor shall not over water and must prevent the discharge of water from the site. The following Control Measures will be implemented to control storm water sediment runoff in site traffic areas, parking areas, staging areas, and other areas where soil is exposed:

1. Geotextile fabric to be placed under all appropriate storm water basin locations for sediment control of storm water conveyance system; and,

2. Straw wattles where needed for sediment control of storm water conveyance system where geotextile fabric cannot be utilized.

The Contractor is to utilize the Best Management Practices (BMPs) appropriate for the protection required for the specific site condition. These requirements are not intended to either replace work practices or substitute existing Storm Water Pollution Prevention Plan (SWPPP), Soil Management Plan (SMP) or any other applicable federal, state, and local government regulations. Whenever there is a conflict or overlap of the above references, the most stringent provision shall apply. The practices as described in the SWPPP and the SMP are incorporated into this document by reference.

Where feasible, re-claimed water shall be used, unless this may pose a health concern to workers. If visible dust clouds are noticed at any time on site, the dust-producing work in that area will be required to be discontinued until dust control measures are effective at controlling visible dust emissions.

C. Off-Site Emission Prevention. The Contractor shall establish a system to ensure that no equipment or operation emits dust that is visible onto the public roadway or adjacent private properties. This system shall include the following:

1. Truck Out Prevention. The Contractor shall establish a system to prevent tracking out soil onto the paved public roadway. This system may include gravel bed or heavy grating (such as a cattle guard) and spray cleaning tires where vehicles exit the work site onto the paved roadway. Mud or dirt shall not be tracked, dropped or washed onto paved roads.

2. Pile Covers. The amount of excavated material (or waste materials) stored at the site shall be kept to a minimum. All active work piles of soil and active storage piles of soil shall be maintained either adequately wetted or shall be kept covered except when in use. The covering shall be in good condition, joined at the seams, and securely anchored to minimize headspace where vapors may accumulate. Inactive storage piles (i.e., piles that have not been in use for the past 7 days) or inactive construction areas, including previously graded areas inactive for at least 7 calendar days, shall also be controlled through one of the following methods:

   (1) Maintaining the surface of the pile(s) adequately wet;

   (2) Establishing and maintenance of surface crusting;

   (3) Use of non-toxic soil stabilizer per manufacturer's recommendation;

   (4) Covering piles with tarp(s). (If tarps are used, the Contractor shall hold tarps in place using weights and/or spikes as required); and

   (5) Hydroseeding with native plant vegetative cover(s).

3. Traffic Control. The Contractor shall ensure that vehicles are not operated at more than 15 miles per hour (mph) whenever they are driven on soil at the project site. Furthermore, vehicle paths through the soil shall be watered every two hours to maintain active work areas adequately wetted. The Contractor may also choose to apply non-toxic dust suppressants as per manufacturer's instructions.

4. Earth Work Control. The Contractor shall limit to the extent possible, the area subject to excavation, grading, and other soil intrusive activities at one time. The Contractor shall adequately wet all areas of earthmoving activities to the depth of anticipated cuts before earthwork begins. The Contractor shall suspend operations if wind speeds are

higher than 25 mph, or enough to allow the dispersal of visible dust despite the use of either water or other dust suppressant agent. The scope of actual work will be limited by which areas can be kept adequately wetted.

5. Dust Curtains. The Contractor may install dust curtains or windbreaks on the property line on windward and down windward sides of the construction areas, as necessary.

6. Post-Construction Stabilization. Post-construction stabilization of disturbed areas will be finished using a combination of methods. Location of new construction will be capped with foundation concrete or hardscape: paving/sidewalks (parking areas and pathways).

D. Action Limits for Offsite Emission. See Appendix I Dust Control and Air Monitoring Requirements.

E. Air Monitoring and Record Keeping.

1. **A perimeter dust-monitoring program will be established for the site and conducted by the Contractor provided independent third-party environmental consultant under the direct supervision of the Contractor provided Certified Industrial Hygienist (CIH) certified by the American Industrial Hygiene Association. The Contractor provided CIH shall also determine whether any regulatory agency notification is required prior to commencing construction work and provide these requirements to the District.**

2. Air monitoring will then be conducted during major soil disturbing activities, during initial excavation, clearing and off-haul. Wind speed and direction will be recorded using a wind-vane digital recorder (such as a Davis VantageVue weather station or equivalent). An audible alarm will be triggered at the onsite trailer if wind speeds exceed 20 mph. If the threshold level of 25 mph is exceeded on non-raining days over a 15-minute average, then the Contractor shall cease dust-generating activities.

3. Daily samples for total PM10 shall be collected during dust disturbance. The purpose of the monitoring will be to provide real time information that will be used to evaluate effectiveness of dust control procedures being implemented by the Contractor using ambient dust air levels at the perimeter fence line. Two (2) perimeter dust monitoring locations will be established and approximately 8-hour (full shift) samples shall be collected using two (2) TSI Dustrak 8330 (or equivalent equipment) for total PM10 dust. The device shall be calibrated in accordance with the manufacturer's instruction. The monitoring device will continuously record aerosol concentrations corresponding

to PM10 size fractions in a concentration range of 0.001 to 400 mg/m3 (i.e., 1 µg/m3 and 400,000 µg/m3). The equipment units will be programmed to trigger a visual alarm (flashing strobe light) at the 15-minute action level.

4. The samplers will be placed at the property perimeters in the following locations: at least one upwind location at a property boundary (typically at the western boundary of the site); one location downwind and nearest to the active soils work site.

5. Action Table.

Time Average	**Total Dust/Wind**	**Action**
Instant gust	Wind >20 mph	Audible Alarm Triggered /Increase dust control
15 minute average	Wind >25 mph	Cease dust generating activities
15 minute average	>= 0.189 mg/m^3	Visual Alarm Triggered /Increase dust control
8-hour net average	>= 0.189 mg/m^3	Notify. Contractor will re-assess activities and dust control measures via onsite meeting prior to start of next shift.

6. To account for short-term variations in dust emissions, an equivalent 15-minute average of 0.189 mg/m_3 shall be used as an airborne Action Level to increase dust suppression efforts.

7. The District and Contractor shall receive a daily report of the emission levels including: 1) maximum 15-minute average dust levels, 2) daily 8-hour average net dust (not to exceed 0.0945 mg/m3 during soils disturbance). At the end of dust monitoring, data shall be downloaded, presented and discussed in a formal report. At a minimum, the summary report will include information on the dust generating activities, dust suppression measures implemented, dust monitoring activities, daily averages, maximum daily 15-minute averages, and action level exceedances, if any. At the end of dust monitoring, data shall be downloaded, presented and discussed in a formal report.

8. **Air monitoring shall be conducted throughout major dust generating activities (i.e. excavation and grading phases) of the project. The Contractor provided independent third party shall conduct observations to document wind direction, wind speed, contractor activities and other pertinent information.**

9. The goal of the Dust Control Plan is NO VISIBLE DUST. The Contractor will ensure visual observation at the site for visible dust during active work. Dust management “best management practices” are to be verified at the end of each day. Any occurrence of observed visible dust on-site shall lead to more aggressive application of dust control measures. Persistent visible dust from work activities for greater than one hour shall require that work cease. Any occurrence of visible dust from active work crossing the site boundary for greater than five minutes shall require that the work cease until effective dust control measures are applied. If visible dust is noted, the Contractor shall apply additional dust control as required.

10. Prior to performing any air monitoring, including the baseline air monitoring and during significant impact Work, the Contractor shall submit to the Engineer a written plan detailing the procedures for air monitoring. Such details shall include:

1. **The name of the firm providing the air monitoring services;**

2. **Description of the instrumentation and Equipment to be used;**

3. **Methods for mounting the instrumentation;**

4. **Data collection analysis procedure;**

5. **Number of air monitors to be;**

6. **Means and methods of providing a warning when dust measurements equals or exceeds specified limits;**

7. **Name of the responsible person designated by the Contractor;**

8. **A contingency plan for alternative construction methods when dust measurements equals or exceeds specified limits.”**

F. PAYMENT: Full compensation for furnishing all labor, Materials, tools, Equipment, and incidentals and for doing all Work involving Additional Dust Control and Air Monitoring Requirements as specified in these Specifications and as directed by the Engineer, shall be included in the lump sum price Bid for Bid Item No. 6 4 Air Quality Monitoring.

Article 19.01.03 Payment

REPLACE 19.01.03.A. in its entirety with:

"A. Full compensation for doing all Work necessary to comply with the NPDES General Permit, including the preparation and implementation of the SWPPP; all Materials, labor, Equipment, service, supervision, documentation, and submittals shall be included in the lump sum price Bid for Bid Item No. 2 COMPLIANCE WITH NPDES GENERAL PERMIT."

Article 19.05.03 Pesticides Management

REPLACE 19.05.03.B. in its entirety with:

"B. On-Site Soil Management: Since Dieldrin has been detected locally present in the soil above the State Water Board Tier 1 Environmental Screening Level (ESL), all soil excavated during construction at the Coyote Warehouse project shall be disposed of at a state-permitted Class II or Class III (non-hazardous) landfill if it is not reused as general fill elsewhere on the property. Refer to Article 10.12 Non-regulated Materials. Soil will not be used as general fill at any off-Site location other than a state-permitted landfill.

1. On-site Soil Reuse: Prior to on-site reuse of excavated soil, the Contractor shall test soil to ensure compliance with the Environmental Screening Levels per the latest guidelines from the appropriate State of California Regional Water Quality Control Board (RWQCB), and submit copies of laboratory testing reports to the Engineer.

2. Disposal at a Class II or Class III Landfill: The Contractor shall test excavated soil in accordance with the requirements of the Class II or Class III Landfill, and submit copies of laboratory testing reports to the Engineer."

REPLACE 19.05.03.C. in its entirety with:

"C. NOT USED."

Article 20.01.02 Immediate Submittals

REPLACE 20.01.02.A. in its entirety with:

"A. Physical construction Work cannot begin until the following immediate submittals have been favorably reviewed by the Engineer. These immediate submittals shall be submitted no later than 45 Days after the first chargeable day.

1. Section 03 Résumé of Project Superintendent

2. Section 08 Injury and Illness Prevention Plan

3. Section 08 Site-Specific Safety and Health Plan

4. Section 10 Storm Water Pollution Prevention Plan or Erosivity Waiver

5. NOT USED.

6. Section 19 Construction and Demolition Debris Management Plan"

Article 20.02 Exclusive Testing by the District-

REPLACE 20.02.A. in its entirety with:

"A. The District will perform their own independent tests as outlined in this article. In such case, the Contractor shall cooperate with the District's independent testing firm. All costs for District testing will be borne by the District except that the costs of any retest resulting from unsatisfactory District test results shall be back charged to the Contractor.

B. The Engineer will furnish the Contractor one copy of each field and laboratory QA/QC test that is performed by the District.

C. The District will secure independent inspection and testing services to conduct special inspection required as part of the building permit and outlined in the City or Morgan Hill Conditions of Approval and the City building Permit. The inspections to be performed by the District Special Inspector are limited to the Special Inspections for the work shown on the structural drawings and required by the building permit. A copy of the District secured independent inspection and testing Statement of Special Inspections service is included in Appendix K. The Contractor shall provide the District a minimum of 2 working days' notice prior to the inspection service being required. The Contractor shall be back charged for inspection services the Contractor has requested without having work ready to be inspected. Note that the Contractor is required to perform all other testing in accordance with Article 20.04.01 B."

Article 20.04.01 Quality Control Plan

REPLACE 20.04.01.B. in its entirety with:

"B. In addition to the testing required in accordance with Article 9.09, Testing, the Contractor is responsible for securing independent inspection and testing services to conduct inspection and testing required as part of the Contract Documents not covered by the District Special Inspector noted in 20.02 C."

Article 21.01.02 Description of Bid Items

REPLACE 21.01.02. in its entirety with:

A. Bid Item No. 1—MOBILIZATION

1. Scope of Work: This bid item shall include payments for bonds an insurance and all preparatory work and materials necessary for

construction operations, including, but not limited to those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; for the establishment and removal of field offices, temporary buildings, and other temporary facilities necessary for work on the project; clean-up of the site; other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site; and other work as specified in these Specifications.

2. **Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for mobilization, as shown on the Drawings and as specified in these Specifications, shall be included in the lump sum price for this bid item. Progress payments will be made in accordance with Section 9 of the State Specifications."**

B. Bid Item No. 2—COMPLIANCE WITH NDPES GENERAL PERMIT

1. Scope of Work: This bid item shall include furnishing all supervision, labor, materials, tools, equipment, and incidentals necessary to prepare, maintain and implement all work required for compliance with the requirements of the State Water Resources Control Board (SWRCB) National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Order # 2009-0009-DWQ)., and any other related State, County, or local requirements.

2. Measurement and Payment: Full compensation for furnishing all supervision, labor, materials, tools, equipment, and incidentals necessary to prepare, maintain and implement all work required for Bid Item No. 2 COMPLIANCE WITH NDPES GENERAL PERMIT requirements shall be included in the lump sum price for this bid item indicated by the Contractor in Bid Form No. 1 of the Bid Documents.

C. Bid Item No. 3—CITY OF MORGAN HILL PERMITS

1. Scope of Work: Under this item, the Contractor shall furnish all labor and materials necessary to obtain any necessary Building, Electrical, Fire, Fire Sprinkler, Fire Alarm, and Encroachment permits from the City of Morgan Hill.

2. Measurement and Payment: Full compensation for furnishing all labor and materials necessary for Bid Item No. 3 for CITY OF MORGAN HILL PERMITS shall be limited to actual fees paid by the Contractor to the City of Morgan Hill, including public works fees, without markup. A lump sum price in the amount of three hundred thousand dollars ($300,000) shall be included by all Bidders in Bid Form No. 1 of the Bid Documents and shall be used for the basis of award.

D. Bid Item No. 4—SOIL REMOVAL

1. **Scope of work: Under this item, the Contractor shall furnish all labor, materials, tools, equipment, permits, insurance (specifically covering the handling and transportation of Potentially Contaminated**

Material), tools, equipment, soil testing, which is specified, shown or reasonably implied for soil removal and activities specified and incidentals necessary to remove soil at the site as follows:

a. Remove soil not to be reused on site in accordance with the requirements of 19.05 Regulated Material Management, 02300 Earthwork and Appendix H.

2. Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, permits, insurance (specifically covering the handling and transportation of Potentially Contaminated Material), tools, equipment, soil testing, which is specified, shown or reasonably implied for Bid Item No. 4 SOIL REMOVAL, whether the soil is required to be taken to a Class II or Class III landfill, shall be included in the unit price per cubic yard for this bid item indicated by the Contractor in Bid Form No. 1 of the Bid Documents.

E. Bid Item No. 5—VIBRATION MONITORING

1. Scope of Work: Under this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals necessary to provide Vibration Monitoring in accordance with Article 18.03.03 Vibration Monitoring.

2. Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, and incidentals for Bid Item No. 5 for VIBRATION MONITORING will be paid for at the lump sum bid price to be indicated by the Contractor in Bid Form No. 1 of the Bid Documents.

F. Bid Item No. 6—AIR QUALITY MONITORING

1. Scope of Work: Under this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals necessary to provide Air Quality Monitoring in accordance with Article 18.05.01, "Additional Dust Control and Air Monitoring Requirements," including but not limited to the Certified Industrial Hygienist, the third party monitoring, the watering, off-site emission prevention and air monitoring and record keeping.

2. Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, and incidentals for Bid Item No. 6 for AIR QUALITY MONITORING will be paid for at the lump sum bid price to be indicated by the Contractor in Bid Form No. 1 of the Bid Documents.

G. Bid Item No. 7—OPERATIONS AND MAINTENANCE DOCUMENTS

1. Scope of Work: Under this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals necessary to provide Operations and Maintenance Documents in accordance with Article 13.10.

2. Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, and incidentals for Bid Item No. 7 for OPERATIONS AND MAINTENANCE DOCUMENTS will be paid for at the lump sum bid price to be indicated by the Contractor in Bid Form No. 1 of the Bid Documents.

H. Bid Item No. 8—REMAINING COYOTE WAREHOUSE WORK

1. Scope of Work: Under this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals necessary to construct, test, make operational, train District staff and support trial operation of the remaining COYOTE WAREHOUSE work as shown on the Drawings and specified in these Specifications. Work shall include, but not limited to:

    a. Site work and demolition required to construct the project including protection of existing facilities and provisions for dust control outside of that covered in Bid Items 4 and 6.
    b. The demolition work shall also provide protection for the existing structures and implementation of project safety as provided by the contract documents.
    c. Providing and installation of utilities, including disinfection, ductile iron pipe, High Density Polyethylene pipe, and polyvinyl chloride pipe.
    d. Providing and installation of Aggregated base course, Asphaltic Concrete Paving, Portland cement concrete paving, Painted Traffic Lines and Markings.
    e. Construction of a pre-engineered metal building, complete with concrete slab on grade, metal storage racks, skylights, electrical lighting, bridge crane, security camera system, fire alarm system doors, windows, louvers, signs and other building specialties.
    f. Building finishes including painting and elastomeric surfaces, coatings, deck toppings, floor and ceiling treatments and other applied finishes.
    g. Landscaping and irrigation including, but not limited to hydroseeding and soil preparation, planting and erosion control. Construction of a bio-swale, including fill and backfill materials,and geotextiles.
    h. Coordination of construction with District plant operation staff. Construction coordination with District's continued operation of the Coyote Pumping Plant.
    i. Restore all impacted sites to a condition equal to or better than that existing prior to construction
    j. All other Work not covered under Bid Items 1, 2, 3, 4, 5, 6, 7, 9 and 10."

2. Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, and incidentals for Bid Item No. 8 for REMAINING COYOTE WAREHOUSE WORK will be paid for at the lump sum bid price to be indicated by the Contractor in Bid Form No. 1 of the Bid Documents.

I. Bid Item No. 9—EXTENDED LANDSCAPING MAINTENANCE

1. Scope of Work: Under this item, the Contractor shall furnish all labor materials, tools, equipment, and incidentals necessary to provide Extended Landscape Maintenance in accordance with Article 02970, "Extended Landscape Maintenance."

2. Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, and incidentals for Bid Item No. 9 for

EXTENDED LANDSCAPING MAINTENANCE shall be included in the unit price per month for this bid item indicated by the Contractor in Bid Form No. 1 of the Bid Documents.

J. **Bid Item No. 10 – SUPPLEMENTAL BID ITEM PAVEMENT DEMOLITION AND REMOVAL**

1. **Scope of Work: Under this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals necessary to provide SUPPLEMENTAL BID ITEM PAVEMENT DEMOLITION AND REMOVAL in accordance with Drawings SC-01 and SC-02 and pertinent technical provisions.**

2. **Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, and incidentals for Bid Item No. 10 for SUPPLEMENTAL BID ITEM PAVEMENT DEMOLITION AND REMOVAL shall be included in the unit price per cubic yard be indicated by the Contractor in Bid Form No. 1 (Rev.1) Proposal and Bid Items."**

K. **Bid Item No. 11 – SUPPLEMENTAL BID ITEM PAVEMENT AGGREGATE BASE**

1. **Scope of Work: Under this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals necessary to provide SUPPLEMENTAL BID ITEM PAVEMENT AGGREGATE BASE in accordance with Drawings SC-01 and SC-02 and pertinent technical provisions.**

2. **Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, and incidentals for Bid Item No. 11 for SUPPLEMENTAL BID ITEM PAVEMENT AGGREGATE BASE shall be included in the unit price per cubic yard to be indicated by the Contractor in Bid Form No. 1 (Rev.1) Proposal and Bid Items."**

L. **Bid Item No. 12 – SUPPLEMENTAL BID ITEM PAVEMENT ASPHALT**

1. **Scope of Work: Under this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals necessary to provide SUPPLEMENTAL BID ITEM PAVEMENT ASPHALT in accordance with Drawings SC-01 and SC-02 and pertinent technical provisions.**

2. **Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, and incidentals for Bid Item No. 12 for SUPPLEMENTAL BID ITEM PAVEMENT ASPHALT shall be included in the unit price per cubic yard to be indicated by the Contractor in Bid Form No. 1 (Rev.1) Proposal and Bid Items."**

M. **Bid Item No. 13 – SUPPLEMENTAL BID ITEM CONCRETE REMOVAL AND REPLACEMENT WITH PAVEMENT DRAINS**

1. **Scope of Work: Under this item, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals necessary to provide SUPPLEMENTAL BID ITEM CONCRETE REMOVAL AND**

REPLACEMENT WITH PAVEMENT DRAINS in accordance with Drawings SC-01 and SC-02 and pertinent technical provisions.

2. **Measurement and Payment: Full compensation for furnishing all labor, materials, tools, equipment, and incidentals for Bid Item No. 13 for SUPPLEMENTAL BID ITEM CONCRETE REMOVAL AND REPLACEMENT WITH PAVEMENT DRAINS shall be included in the lump sum bid price to be indicated by the Contractor in Bid Form No. 1 (Rev.1) Proposal and Bid Items."**

Article 22.03. Training

REPLACE 22.03. in its entirety with:

"This Article includes requirements for training District staff on the Equipment, products, and systems furnished under these Contract Documents, including Contractor video recording of training instruction. The Contractor shall provide training for the following systems:

13704 Security Access System

13852 Fire Detection and Alarm System

14600 Hoists and Cranes

16001 Electrical – General Requirements"

Article 22.04.06 Submittals

REPLACE 22.04.06.A.1.:

"1. Individual testing plans for each major new facility and modified existing process system. Testing plans should summarize all planned Work leading to the start-up and SCT of each modified and new process system. As a minimum, testing plans shall be submitted for:

a. Security Access System

b. Fire Detection and Alarm System

c. Hoists and Cranes

d. Electrical – General Provisions"

TECHNICAL PROVISIONS

Article 02501 Trench Drains, Catch Basins, Frames and Grates

ADD new Article 02501 Trench Drains, Catch Basins, Frames and Grates. See Attachment B.

Article 03100 Concrete Forms and Accessories

DELETE Article 03100 Concrete Forms and Accessories in its entirety

Article 03300 Cast-In-Place Concrete

REPLACE Paragraph 03300 1.05.H. in its entirety with:

"H. The Owner shall provide field testing services of the concrete by an independent testing agency. Testing of the following items shall be performed to verify conformity with this Specification Section.

1. Concrete placement - compressive strength (cylinders), compressive strength (cores), slump, air content, and shrinkage (concrete bars).

2. Other materials or products that may come under question."

REPLACE 03300 3.09.B. in its entirety with:

"B. Sets of field control concrete cylinder specimens in compliance with ASTM C31 and concrete bars for shrinkage testing shall be taken during the progress of the work by an independent testing agency, acceptable to the Engineer, employed by and at the expense of the Owner. The number of sets of concrete test cylinders taken of each class of concrete placed each day shall not be less than one set per day, nor less than one set for each 150 cubic yards of concrete, nor less than one set for each 3,000 square feet of surface area for slabs or walls. If the total volume of concrete were such that the frequency of testing required for a given class of concrete would provide less than five strength tests, tests shall be made from at least five randomly selected batches or from each batch if fewer than five batches are anticipated."

REPLACE Paragraph 03300 3.09.C. in its entirety with:

"C. A "set" of test cylinders consists of six cylinders: two to be tested at 7 days and two to be tested and their strengths averaged at 28 days. The final two may be used for a special test at 3 days or to verify strength after 28 days if 28-day test results are low."

Article 03350 Concrete Finishing

REPLACE Paragraph 03350 3.06.6. in its entirety with:

"6. Interior or exterior horizontal concrete not requiring floor hardener or sealer: Steel Trowel Finish"

Article 13120 Metal Building Systems

REPLACE Paragraph 2.02.C. in its entirety with:

"C. Lateral Loads

Risk Category II

Wind Load Information
110 mph Basic Wind Speed

Exposure C

Seismic Load Information
Site Class C
Ss = **1.848g**
S1 = **0.690g**
Sds = **1.238g**
Sd1 = **0.598g"**

REPLACE Paragraph 3.02.C. with:

"C. All steel members shall be fabricated in an approved fabricator/manufacturer's shop. The manufacturer shall provide a certificate of compliance prior to erection in accordance with CBC Section 1704.2.5."

APPENDICES

APPENDIX J Valley Habitat Plan Chapter 6 Excerpts

REPLACE APPENDIX J Valley Habitat Plan Chapter 6 Excerpts in its entirety with ATTACHMENT C.

APPENDIX K Statement of Special Inspections

ADD NEW APPENDIX K Statement of Special Inspections with ATTACHMENT D.

MAPS AND CONSTRUCTION PLANS

Item no.	Drawing No.	Description
D1-1	G-05	**REVISED** the symbol legend to accurately reflect the various materials represented throughout the plan set.
D1-2	G-09	**ADD** the recently built concrete wall on the north side of the project to the background
D1-3	G-10	**ADD** the recently built concrete wall on the north side of the project to the background
D1-4	GD-1	**ADD** the recently built gravel lot and called for partial demolition as well as added the recently built concrete wall on the north side of the project to the background
D1-5	GD-1	**ADD** the removal of two shrubs at the northwest corner of the site
D1-6	GL-1	**REVISED** the irrigation legend, planting notes, and pipe sizing schedule
D1-7	L-01	**ADD** Detail of water point of connection was added and the line type of all irrigation lines were clarified.

Item no.	Drawing No.	Description
D1-8	L-02	**ADD** the recently built concrete wall on the north and clarified the planter tree count on the east. See Attachment E.
D1-9	LD-1	**REVISED** the materials shown in the various details to reflect the plan symbology and legend. See Attachment E.
D1-10	LD-2	**REVISED** the materials shown in the various details to reflect the plan symbology and legend. See Attachment E.
D1-11	C-01	**ADD** the revised grades along the recently installed gravel. See Attachment E.
D1-12	C-02	**ADD** the water connection detail, pipe materials, the concrete wall to the north in the background, and clarified the profile callouts. See Attachment E.
D1-13	C-03	**ADD** the water connection detail, pipe materials, the concrete wall to the east in the background, and adjusted the plan matchline. See Attachment E.
D1-14	CD-1	**ADD** material clarifications to match the plan symbology and legend. See Attachment E.
D1-15	CD-2	**ADD** material clarifications to match the plan symbology and legend and altered the elevations in details C207 and C208. See Attachment E.
D1-16	CD-3	**ADD** material clarifications to match the plan symbology and legend and altered the pipe material and rainwater leaders in details C301 and C302. See Attachment E.
D1-17	CD-4	**ADD** material clarifications to match the plan symbology and legend and altered the pipe material and rainwater leaders in details C401. See Attachment E.
D1-18	CD-5	**ADD** material clarifications to match the plan symbology and legend and altered the pipe material and rainwater leaders in details C501. See Attachment E.
D1-19	CD-6	**ADD** material clarifications to match the plan symbology and legend. See Attachment E.
D1-20	GA-02	**ADD** north concrete wall to plan background and updated the rock pile locations to match the rest of the plan set. See Attachment E.
D1-21	A-02	**ADD** note 6 to only call for an opaque panel in lieu of Kalwall. See Attachment E.
D1-22	A-05	**ADD** material clarifications in the material finish schedule. See Attachment E.
D1-23	P0.1	**ADD** material clarifications in the material specifications chart. See Attachment E.
D1-24	P2.1	**REMOVE** splash block reference at downspouts. See Attachment E.
D1-25	E7.0	**ADD** photometric values at south building exterior light. See Attachment E.

Item no.	Drawing No.	Description
D1-26	SC-01	**ADD** New Drawing SC-01 ADDITIONAL PAVING SITE LAYOUT AND PLAN. See Attachment E.
D1-27	SC-02	**ADD** New Drawing SC-02 ADDITIONAL PAVING DETAILS AND SECTION. See Attachment E.

GENERAL QUESTIONS AND RESPONSES

NO.	QUESTION	RESPONSE
Q1-1.	Can the Security cans in the Maintenance Building be opened for viewing?	No further pre-bid site visits are anticipated at this time.
Q1-2.	What access will the District have to the Contractor's side of the temporary fence?	The District uses the Contractor's side of the proposed temporary fence only periodically, but the District needs to retain the ability to access item stored on that portion of land. See also Article 16.09 of the Special Provisions.
Q1-3.	Can directional boring be used in lieu of the trenching shown?	No.
Q1-4.	Will the Contractor receive additional compensation if the soil needs to be delivered to a more expensive Class II or Class III landfill?	No. The unit cost for Bid Item No. 4—SOIL REMOVAL must cover all costs to remove soil to either Class II or Class III landfills.
Q1-5.	The plans GS-01 and the General requirements section 13 are different than the Metal building specification section 13120 for the design loads. Which is correct?	The Plans are correct. See revised Section 13120 in this Addendum.
Q1-6.	Metal roof and wall panels, the plans state see the specifications and the Specifications state to see the plans. I don't see gauges or types. They all look like standard R-panel exposed fastener panels, 26 or 24 gauge?	See revised Drawing A-05. Panels shall be 24 gauge with 1.5" rib height.
Q1-7.	The dimension for the height of the building is to the bottom of the trim, is 26'-6" to the top of the frame and the purlins are above this, which would make the building 27' 2"+/-?	The 26'-6" dimension is to the bottom of the roof deck.

NO.	QUESTION	RESPONSE
Q1-8.	Insulation: there is a specification for insulation but none shown on the plans. I would not recommend rigid. Please tell us where and the R-value.	See revised Sheet A-05. Provide insulation with R-19 min. with vapor barrier.
Q1-9.	In Appendix G, The City of Morgan Hill lists that the Storm Water Control Plan is under review. What is the status of this review?	The City has submitted their review comments and are provided in Attachment F of this Addendum
Q1-10	Our Skylight supplier is stating that the specs call out for a structural glass skylight which will be very expensive, especially for a warehouse. You would be better off going with translucent panels that match the panel configuration. Or a standard dome skylight. The same thing with the Kylwall. It is very expensive and harder to make weather tight as apposed to translucent panels.	With respect to the skylights please bid the project per the specifications and drawings. The wall panels have been revised to eliminate the requirement for Kalwall per revised Sheet A-02.

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THIS ADDENDUM NO. 1, WHICH CONTAINS 28 PAGES AND 6 ATTACHMENTS, IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.

Katherine Oven

Date: 11/8/2018

Katherine Oven, P.E.
Deputy Operating Officer
Water Utility Capital Division

Enclosures:

1. ATTACHMENT A – Bid Form No. 1 (REV.1) Proposal and Bid Items
2. ATTACHMENT B – Specification 02501 Trench Drains, Catch Basins, Frames and Grates
3. ATTACHMENT C - APPENDIX J Valley Habitat Plan Chapter 6 Excerpts
4. ATTACHMENT D – APPENDIX K Statement of Special Inspections
5. ATTACHMENT E – SHEETS G-05, G-09, G-10, GD-1, GL-1, L-01, L-02, LD-1, LD-2, C-01, C-02, C-03, CD-1, CD-2, CD-3, CD-4, CD-5, CD-6, GA-02, A-02, A-05, P0.1, P2.1, E7.0, SC-01 and SC-02
6. ATTACHMENT F – City of Morgan Hill Stormwater Control Plan review comments

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ATTACHMENT A

Bid Form No. 1 (REV.1) Proposal and Bid Items

Proposal 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 **COYOTE WAREHOUSE PROJECT**, 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 **1121** 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 the Instructions to Bidders, Contract Bonds, paragraph #21 and Execution of Contract, paragraph #22. If the Bidder fails to meet these requirements within the time specified in the Instruction to Bidders, Failure to Execute Contract, paragraph #23, 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 https://www.valleywater.org/construction.

☐ **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. This Proposal must be signed by an authorized representative of the Bidder with the authority to bind the Bidder.

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 *ink* and changes must be *initialed*.)	
Bidder's Signature:	Date:
Bidder's Name and Title (Print):	

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

SECTION A — BASE BID

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY / UNIT	UNIT PRICE	TOTAL
1	MOBILIZATION	Lump Sum / Lump Sum		
2	COMPLIANCE WITH NDPES GENERAL PERMIT	Lump Sum / Lump Sum		
3	CITY OF MORGAN HILL PERMITS	Lump Sum / Lump Sum	**$300,000**	**$300,000**
4	SOIL REMOVAL	850 Cubic Yards		
5	VIBRATION MONITORING	Lump Sum / Lump Sum		
6	AIR QUALITY MONITORING	Lump Sum / Lump Sum		
7	OPERATIONS AND MAINTENANCE DOCUMENTS	Lump Sum / Lump Sum	**$7,500**	**$7,500**
8	REMAINING COYOTE WAREHOUSE WORK	Lump Sum / Lump Sum		
9	EXTENDED LANDSCAPING MAINTENANCE	**Lump Sum / Lump Sum**		
10	**SUPPLEMENTAL BID ITEM PAVEMENT DEMOLITION AND REMOVAL**	**4,050 Cubic Yards**		
11	**SUPPLEMENTAL BID ITEM PAVEMENT AGGREGATE BASE**	**3,230 Cubic Yards**		

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

SECTION A — BASE BID

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY / UNIT	UNIT PRICE	TOTAL
12	**SUPPLEMENTAL BID ITEM PAVEMENT ASPHALT**	**825 Cubic Yards**		
13	**SUPPLEMENTAL BID ITEM CONCRETE REMOVAL AND REPLACEMENT WITH PAVEMENT DRAINS**	**Lump Sum / Lump Sum**		
	TOTAL BASE BID			

ATTACHMENT B

Specification 02501 Trench Drains, Catch Basins, Frames and Grates

SECTION 02501

TRENCH DRAINS, CATCH BASINS, FRAMES AND GRATES

PART 1 – GENERAL

1.01 SCOPE OF WORK

A. Section Includes: Trench drains, catch basins, frames and grate.

1.02 RELATED SECTIONS

See Related Sections for additional requirements applicable to this Section (typical).

A. Section 02300 – Earthwork.

B. Section 02315 – Fill and Backfill Materials.

C. Section 02742 – Asphaltic Concrete Paving.

1.03 SUBMITTALS

A. All submittals shall be in accordance with the Standard and Special Provisions.

B. Submittals shall include the precast trench drain and gate manufacturer's standard literature, details of precast trench drain, and grate.

C. Shop drawings shall not be submitted without the Field Verification Report described below.

D. The contractor shall field verify all existing crossing utilities and prepare a Field Verification Report. The report shall include the size, horizontal and vertical location and material for each crossing utility. The Field Verification Report shall be prepared by the contractor prior to preparing pipe shop drawings.

1.04 REFERENCE STANDARDS

A. Except as modified or supplemented herein, all precast trench drains and grates shall conform to the requirements of the following respective standards:

B. American Society for Testing and Materials (ASTM):

1. ASTM C579 -- Standard Specification Test Methods for Compressive Strength of Chemical Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes

2. ASTM C580 -- Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes

3. ASTM C307 -- Standard Test Method for Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacings

4. ASTM D570 -- Standard Test Method for Water Absorption of Plastics

5. ASTM C267 -- Standard Test Methods for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacings and Polymer Concretes

6. ASTM C666 -- Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing

7. ASTM G21 -- Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi

8. UL-723 – Standard for Test for Surface Burning Characteristics of Building Materials

1.05 DELIVERY, STORAGE, AND HANDLING

A. All items shall be bundled or packaged in such a manner as to provide adequate protection during transportation to the site. Any pipe damaged in shipment shall be replaced at no additional cost to the District.

1.06 MEASUREMENT AND PAYMENT

A. Work shall be considered incidental and compensation shall be included in the Contract prices paid for the various items of work and no additional time or compensation be allowed therefor.

B. Refer to Article 21.01 Schedule of Bid Items.

PART 2 – PRODUCTS

2.01 CONCRETE TRENCH DRAINS

A. Trench drains shall be ABT Precast Polymer Concrete Trench Drain #PD04 (Series #PD-2512AF), or equal.

B. Provide trench drain for drainage assemblies of sizes indicated on the Drawings.

C. Trench drains shall be precast polyester polymer concrete. Polyester polymer concrete shall be manufactured with the following material properties when tested:

1. Minimum compressive strength of 14,000 psi in accordance with ASTM C579.

2. Minimum bending strength of 4,000 psi in accordance with ASTM C580.

3. Minimum tensile strength of 2,000 psi in accordance with ASTM C307.

4. Maximum moisture absorption of 0.1% in accordance with ASTM D570.

5. Pass chemical resistance tests in accordance with ASTM C267.

6. Minimum 1600 number of freeze/thaw cycles without weight loss in accordance with ASTM C666.

7. Zero (0) rating mold growth in accordance with ASTM G21.

8. Class A UL/ULC Listed – Flame Spread in accordance with UL-723.

D. Pre-sloped channels shall have a standard slope of 0.6% with radius bottom.

E. Channel shall have tongue and groove joints.

F. Grate lock down slots shall have polyethylene vibration dampening inserts.

G. All channels must have full length anchoring ribs for a positive mechanical lock with eh surrounding concrete.

2.02 TRENCH DRAIN GRATE AND FRAME

A. Trench Drain Grates shall be ABT Ductile Iron Slotted Grates #2502 (Series #PD-2512AF), or equal.

B. Trench Drain Frames shall be ABT Ductile Iron Frames #2510 (Series #PD-2512AF), or equal.

C. Grate and Frame shall be black polymer coated ductile iron conforming to ASTM A-536.

D. Grates shall have load rating of 620 PSI conforming to AASHTO M-306 test modified by utilizing a 9” x 3” load plate. Grates shall have a minimum open area of 0.21 Ft^2 per linear feet.

E. Frames shall be a minimum 0.188” thick. Frames shall have 0.25” diameter x 3” long anchors spaced no more than 17” on center.

F. Frames shall be independent of channels.

G. Grates and Frames shall seat into channels without rocking and shall be locked to the channel using a zinc plated steel 5/16 – 18 UNC bolt and zinc plated steel toggle bar system.

1. Bolt shall have a torque of 10 in/lb.

2.03 CONCRETE CATCH BASIN

A. Concrete catch basins shall be ABT Precast Polymer Concrete Catch Basin #PD2610, or equal.

B. Provide catch basins for drainage assemblies of sizes indicated on the Drawings.

C. Concrete catch basins shall be precast polyester polymer concrete. Polyester polymer concrete shall be manufactured with the following material properties when tested:

1. Minimum compressive strength of 14,000 psi in accordance with ASTM C579.

2. Minimum bending strength of 4,000 psi in accordance with ASTM C580.

3. Minimum tensile strength of 2,000 psi in accordance with ASTM C307.

4. Maximum moisture absorption of 0.1% in accordance with ASTM D570.

5. Pass chemical resistance tests in accordance with ASTM C267.

6. Minimum 1600 number of freeze/thaw cycles without weight loss in accordance with ASTM C666.

7. Zero (0) rating mold growth in accordance with ASTM G21.

8. Class A UL/ULC Listed – Flame Spread in accordance with UL-723.

D. Concrete catch basins shall consist of 2 sections. The top section shall connect to the catch basin frame and grate. The bottom section shall connect to the pipe outlet of size indicated on the Drawings.

2.04 CATCH BASIN GRATE AND FRAME

A. Catch Basin Grates shall be ABT Ductile Iron Grates #604, or equal.

B. Catch Basin Frames shall be ABT Ductile Iron Frames #603, or equal.

C. Grate and Frame shall be black polymer coated ductile iron conforming to ASTM A-536.

D. Grates shall have load rating of 620 PSI conforming to AASHTO M-306. Grates shall have a minimum open area of 0.21 Ft^2 per linear feet.

E. Frames shall be independent of channels.

F. Grates and Frames shall seat into catch basin without rocking and shall be bolted at all four corners.

2.05 FRENCH DRAIN

A. Drain rock for French drains shall be Class 1, Type A Permeable Material conforming to Section 68-2.02F of the State Specifications.

B. Drain rock section shall be 3 feet long by 3 feet wide by 2 feet deep.

PART 3 – EXECUTION

3.01 GENERAL

A. Prior to excavation and installing drainage assemblies the Contractor shall identify potential conflicts with underground utilities, structures, or features.

3.02 INSTALLATION REQUIREMENTS FOR DRAINAGE ASSEMBLIES

A. Install concrete trench drains, trench drain grate and frame, concrete catch basin, and catch basin grate and frame as shown on the Drawings and per the manufacture's recommendations.

END OF SECTION

ATTACHMENT C

APPENDIX J Valley Habitat Plan Chapter 6 Excerpts

Condition 3. Maintain Hydrologic Conditions and Protect Water Quality

This condition applies to all projects. The implementation of these projects could result in impacts on watershed health through changes in hydrology and water quality.

Currently, all Permittees have stormwater management plans that regulate new development and redevelopment as part of compliance with regulations under National Pollutant Discharge Elimination System (NPDES) permit requirements. An amendment to the Clean Water Act, the NPDES Program is a compliance permit regulating any point source pollution that is discharged into waters of the United States. The San Francisco Bay Regional Board administers the NPDES program in for the Coyote and Guadalupe watersheds. The Central Coast Regional Board administers the NPDES program for the Pajaro Watershed which includes Uvas, Llagas, and Pacheco subbasins. The purpose of this condition is to identify a consistent approach for applying the most important water quality conditions of each Regional Board across the study area (North and South County).

Site Design and Avoidance and Minimization Measures

Through development of stormwater management plans and complementary guidance manuals (Santa Clara Valley Urban Runoff Pollution Prevention Program 2006; City of Gilroy 2004; City of Morgan Hill 2004, 2008; Santa Clara Valley Water Resources Protection Collaborative 2006; Santa Clara Valley Water District 2008), the Permittees have identified a set of programmatic avoidance and minimization measures, performance standards, and control measures to minimize increases of peak discharge of stormwater and to reduce runoff of pollutants to protect water quality including during project construction. These avoidance and minimization measures originated, in part, from the measures that area typically required by the Regional Boards and CDFG for projects that have the potential to affect aquatic resources. Many of these avoidance and minimization measures also support the biological goals and objectives of this Habitat Plan. Implementation of these avoidance and minimization measures will reduce the potential for adverse impacts on covered species. **Table 6-2** lists avoidance and minimization measures for all water-related covered activities described in Condition 3, 4, and 5 of this Plan. Each local jurisdiction, or the Implementing Entity in the case of projects conducted by the Permittees, will verify that all appropriate measures in **Table 6-2** are implemented to minimize effects to covered species and their aquatic habitat (see Section 6.8.6). **Table 6-2** lists the source control measures and avoidance and minimization measures from the Permittees' existing stormwater management plans and complementary manuals that are most effective in protecting covered aquatic species and aquatic species habitat.

The requirements listed in **Table 6-2** include general, project design, construction, and post-construction avoidance and minimization measures. Project design measures are site design planning approaches that protect water quality by preventing and reducing the adverse impacts of stormwater pollutants and increases in peak runoff rate and volume. They include hydrologic source control measures that focus on the protection of natural resources and the reduction of impervious surfaces. Construction site conditions include source and treatment control measure to prevent pollutants from leaving the construction site and minimizing site erosion and local stream sedimentation during construction. Post-construction conditions include measures for municipal operations, stormwater treatment, and flow control.

In addition to the avoidance and minimization measures identified above, several other avoidance and minimization measures are identified in other conditions that will help reduce potential impacts to water quality in the study area. Project proponents will comply with the following conditions as appropriate.

- Condition 2. *Incorporate Urban Reserve System Interface Design Requirements*.
- Condition 4. *Stream Avoidance and Minimization for In-Stream Projects*.
- Condition 5. *Avoidance and Minimization Measures for In-Stream Operations and Maintenance*.
- Condition 7. *Rural Development Design and Construction Requirements.*
- Condition 8. *Implement Avoidance and Minimization Measures for Rural Road Operations and Maintenance.*
- Condition 11. *Stream and Riparian Setbacks*.
- Condition 12. *Wetland and Pond Avoidance and Minimization*.

6.4.2 In-Stream Projects

In-stream projects—such as flood protection projects, construction of new bridges and repair or rehabilitation of existing bridges or culverts, and water supply capital projects—have the capacity to affect wildlife, aquatic species, and habitats by introducing sediment discharge, disturbing earth and riparian vegetation, and altering hydrologic and hydraulic characteristics of water bodies. Condition 4 is designed to address such impacts.

Several of the in-stream covered activities described in Chapter 2 are also covered activities under the SCVWD proposed Three Creeks HCP. The conditions described below for in-stream projects, as well as for stream and riparian habitat and associated covered species (e.g., Condition 16), are consistent with the Three Creeks HCP.

Table 6-2. Aquatic Avoidance and Minimization Measures

ID	Avoidance and Minimization Measure
	General
1	Minimize the potential impacts on covered species most likely to be affected by changes in hydrology and water quality.
2	Reduce stream pollution by removing pollutants from surface runoff before the polluted surface runoff reaches local streams.
3	Maintain the current hydrograph and, to the extent possible, restore the hydrograph to more closely resemble predevelopment conditions.
4	Reduce the potential for scour at stormwater outlets to streams by controlling the rate of flow into the streams.
5	Invasive plant species removed during maintenance will be handled and disposed of in such a manner as to prevent further spread of the invasive species.
6	Activities in the active (i.e., flowing) channel will be avoided. If activities must be conducted in the active channel, avoidance and minimization measures identified in this table will be applied.
7	Personnel shall prevent the accidental release of chemicals, fuels, lubricants, and non-storm drainage water into channels.
8	Spill prevention kits shall always be in close proximity when using hazardous materials (e.g., crew trucks and other logical locations).
9	Personnel shall implement measures to ensure that hazardous materials are properly handled and the quality of water resources is protected by all reasonable means when removing sediments from the streams.
10	If ground disturbing activities are planned for a stream channel that is known or suspected to contain elevated levels of mercury, the following steps should be taken. 1. Avoid disturbing soils in streams known or suspected to contain high levels of mercury. 2. Soils that are likely to be disturbed or excavated shall be tested for mercury. Soils shall be remediated if: a. disturbed or excavated soils exposed to flood flows below the 2.33-year channel flow level exceed 1 ppm Hg, or b. disturbed or excavated soils above the 2.33-year flow level exceed 20 ppm Hg.
11	Vehicles shall be washed only at approved areas. No washing of vehicles shall occur at job sites.
12	No equipment servicing shall be done in the stream channel or immediate flood plain, unless equipment stationed in these locations cannot be readily relocated (i.e., pumps, generators).
13	Personnel shall use the appropriate equipment for the job that minimizes disturbance to the stream bottom. Appropriately-tired vehicles, either tracked or wheeled, shall be used depending on the situation
14	If high levels of groundwater in a work area are encountered, the water is pumped out of the work site. If necessary to protect water quality, the water shall be directed into specifically constructed infiltration basins, into holding ponds, or onto areas with vegetation to remove sediment prior to the water re-entering a creek.

ID	Avoidance and Minimization Measure
15	If native fish or non-covered, native aquatic vertebrates are present when cofferdams, water bypass structures, and silt barriers are to be installed, a native fish and aquatic vertebrate relocation plan shall be implemented when ecologically appropriate as determined by a qualified biologist to ensure that significant numbers of native fish and aquatic vertebrates are not stranded. Prior to the start of work or during the installation of water diversion structures, native aquatic vertebrates shall be captured in the work area and transferred to another reach as determined by a qualified biologist. Timing of work in streams that supports a significant number of amphibians will be delayed until metamorphosis occurs to minimize impacts to the resource. Capture and relocation of aquatic native vertebrates is not required at individual project sites when site conditions preclude reasonably effective operation of capture gear and equipment, or when the safety of biologist conducting the capture may be compromised. Relocation of native fish or aquatic vertebrates may not always be ecologically appropriate. Prior to capturing native fish and/or vertebrates, the qualified biologist will use a number of factors, including site conditions, system carrying capacity for potential relocated fish, and flow regimes (e.g., if flows are managed) to determine whether a relocation effort is ecologically appropriate. If so, the following factors will be considered when selecting release site(s): 1. similar water temperature as capture location; 2. ample habitat availability prior to release of captured individuals; 3. presence of other same species so that relocation of new individuals will not upset the existing prey/predation function; 4. carrying capacity of the relocation location; 5. potential for relocated individual to transport disease; and 6. low likelihood of fish reentering work site or becoming impinged on exclusion net or screen. Proposals to translocate any covered species will be reviewed and approved by the Wildlife Agencies.
16	When work in a flowing stream is unavoidable, the entire streamflow shall be diverted around the work area by a barrier, except where it has been determined by a qualified biologist that the least environmentally disruptive approach is to work in a flowing stream. Where feasible, water diversion techniques shall allow stream flows to gravity flow around or through the work site.
17	Coffer dams shall be installed both upstream and downstream not more than 100 feet from the extent of the work areas. Coffer dam construction shall be adequate to prevent seepage into or from the work area. Stream flow will be pumped around the work site using pumps and screened intake hoses. All water shall be discharged in a non-erosive manner (e.g., gravel or vegetated bars, on hay bales, on plastic, on concrete, or in storm drains when equipped with filtering devices, etc.).
18	Small in-channel berms that deflect water to one side of the channel during project implementation may be constructed of channel material in channels with low flows.
19	Sumps or basins may also be used to collect water, where appropriate (e.g., in channels with low flows).
20	Diversions shall maintain ambient stream flows below the diversion, and waters discharged below the project site shall not be diminished or degraded by the diversion. All materials placed in the channel to dewater the channel shall be removed when the work is completed. Normal flows shall be restored to the affected stream as soon as is feasible and safe after completion of work at that location.
21	To the extent that stream bed design changes are not part of the project, the stream bed will be returned to as close to pre-project condition as appropriate.
22	To the extent feasible, all temporary diversion structures and the supportive material shall be removed no more than 48 hours after work is completed.
23	Temporary fills, such as for access ramps, diversion structures, or cofferdams, shall be completely removed upon finishing the work.
24	To prevent increases in temperature and decreases in dissolved oxygen (DO), if bypass pipes are used, they shall be properly sized (i.e., larger diameter pipes to better pass the flows). Use of bypass pipes may be avoided by creating a low-flow channel or using other methods to isolate the work area.

ID	Avoidance and Minimization Measure
25	Diversions shall maintain fish passage when the project meets the following conditions: 1) the length of the area dewatered exceeds 500 feet, and/or 2) the length of time the stream is dewatered exceeds two weeks in length. Conditions for fish passage shall be met as long as the diversion 1) maintains contiguous flows through a low flow channel in the channel bed or an artificial open channel, 2) presents no vertical drops exceeding six (6) inches and follows the natural grade of the site, 3) maintains water velocities that shall not exceed eight feet per second (8 ft/sec), and 4) maintains adequate water depths consistent with normal conditions in the project reach. An artificial channel used for fish passage shall be lined with cobble/gravel. A closed conduit pipe shall not be used for fish passage. The inlets of diversions shall be checked daily to prevent accumulation of debris.
26	Any sediment removed from a project site shall be stored and transported in a manner that minimizes water quality impacts.
27	Sediment from the San Francisco Bay Watershed, including that for reuse, will not be removed to areas any farther south than Metcalf Road in south San Jose.
28	Where practical, the removed sediments and gravels will be re-used.
29	Existing native vegetation shall be retained by removing only as much vegetation as necessary to accommodate the trail clearing width. Maintenance roads should be used to avoid effects on riparian corridors.
30	Vegetation control and removal in channels, on stream banks, and along levees and maintenance roads shall be limited to removal necessary for facility inspection purposes, or to meet regulatory requirements or guidelines.
31	When conducting vegetation management, retain as much understory brush and as many trees as feasible, emphasizing shade producing and bank stabilizing vegetation. If riparian vegetation is to be removed with chainsaws, consider using saws currently available that operate with vegetable-based bar oil.
32	In-channel vegetation removal may result in increased local erosion due to increased flow velocity. To minimize the effect, the top of the bank shall be protected by leaving vegetation in place to the maximum extent possible.
33	Regional Board objectives for temperature change in receiving waters (measured 100 feet downstream of discharge point) shall not be exceeded. Receiving water and discharge water may be monitored for temperature changes after a comparison of ambient temperature to pipeline water temperature suggests the potential for change.
	Project Design
34	Use the minimum amount of impermeable surface (building footprint, paved driveway, etc.) as practicable.
35	Use pervious materials, such as gravel or turf pavers, in place of asphalt or concrete to the extent practicable.
36	Use flow control structures such as swales, retention/detention areas, and/or cisterns to maintain the existing (pre-project) peak runoff.
37	Direct downspouts to swales or gardens instead of storm drain inlets.
38	Use flow dissipaters at runoff inlets (e.g., culvert drop-inlets) to reduce the possibility of channel scour at the point of flow entry.
39	Minimize alterations to existing contours and slopes, including grading the minimum area necessary.
40	Maintain native shrubs, trees and groundcover whenever possible and revegetate disturbed areas with local native or non-invasive plants.
41	Combine flow-control with flood control and/or treatment facilities in the form of detention/retention basins, ponds, and/or constructed wetlands.
42	Use flow control structures, permeable pavement, cisterns, and other runoff management methods to ensure no change in post-construction peak runoff volume from pre-project conditions for all covered activities with more than 5,000 square feet of impervious surface.
43	Site characteristics will be evaluated in advance of project design to determine if non-traditional designs, such as bioengineered bank treatments that incorporate live vegetation, can be successfully utilized while meeting the requirements of the project.
44	Maintenance of natural stream characteristics, such as riffle-pool sequences, riparian canopy, sinuosity, floodplain, and a natural channel bed, will be incorporated into the project design.

ID	Avoidance and Minimization Measure
45	Stream crossings shall incorporate a free-span bridge unless infeasible due to engineering or cost constraints or unsuitable based on minimal size of stream (swale without bed and banks or a very small channel). If a bridge design cannot free-span a stream, bridge piers and footings will be designed to have minimum impact on the stream. A hydraulics analysis must be prepared and reviewed by the jurisdictional partner, including SCVWD as appropriate, demonstrating that piers or footings will not cause significant scour or channel erosion. Whenever possible, the span of bridges will also allow for upland habitat beneath the bridge to provide undercrossing areas for wildlife species that will not enter the creek. Native plantings, natural debris, or scattered rocks will be installed under bridges to provide wildlife cover and encourage the use of crossings.
46	Whenever possible, the span of bridges will also allow for upland habitat beneath the bridge to provide undercrossing areas for wildlife species that will not enter the creek.
47	If a culvert is used, up- and downstream ends of the culvert must be appropriately designed so that the stream cannot flow beneath the culvert or create a plunge pool at the downstream end. Preference will be given to designs that allow a natural bottom (arch culvert) and/or which do not alter natural grade.
48	Trails will be sited and designed with the smallest footprint necessary to cross through the in-stream area. Trails will be aligned perpendicular to the channel and be designed to avoid any potential for future erosion. New trails that follow stream courses will be sited outside the riparian corridor.
49	The project or activity must be designed to avoid the removal of riparian vegetation, if feasible. If the removal of riparian vegetation is necessary, the amount shall be minimized to the amount necessary to accomplish the required activity and comply with public health and safety directives.
50	If levee reconstruction requires the removal of vegetation that provides habitat value to the adjacent stream (e.g., shading, bank stabilization, food sources, etc.), then the project will include replacement of the vegetation/habitat that was removed during reconstruction unless it is determined to be inappropriate to do so by the relevant resource agencies (e.g., CDFG and USFWS).
51	All projects will be conducted in conformance with applicable County and/or city drainage policies.
52	Adhere to the siting criteria described for the borrow site covered activity (see Chapter 2 for details).
53	When possible, maintain a vegetated buffer strip between staging/excavation areas and receiving waters.
54	When not within the construction footprint, deep pools within stream reaches shall be maintained as refuge for fish and wildlife by constructing temporary fencing and/or barrier so as to avoid pool destruction and prevent access from the project site.
55	For stream maintenance projects that result in alteration of the stream bed during project implementation, its low flow channel shall be returned to its approximate prior location with appropriate depth for fish passage without creating a potential future bank erosion problem.
56	Increased water velocity at bank protection sites may increase erosion downstream. Therefore, bank stabilization site design shall consider hydraulic effects immediately upstream and downstream of the work area. Bank stabilization projects will be designed and implemented to provide similar roughness and characteristics that may affect flows as the surrounding areas just upstream and downstream of the project site.
57	When parallel to a stream or riparian zone and not located on top of a levee, new trails shall be located behind the top of bank or at the outside edge of the riparian zone except where topographic, resource management, or other constraints or management objectives make this not feasible or undesirable.
58	Existing access routes and levee roads shall be used if available to minimize impacts of new construction in special status species habitats and riparian zones.
59	Trails in areas of moderate or difficult terrain and adjacent to a riparian zone shall be composed of natural materials or shall be designed (e.g., a bridge or boardwalk) to minimize disturbance and need for drainage structures, and to protect water quality.
60	Trail crossings of freshwater stream zones and drainages shall be designed to minimize disturbance, through the use of bridges or culverts, whichever is least environmentally damaging. Structures over water courses shall be carefully placed to minimize disturbance. Erosion control measures shall be taken to prevent erosion at the outfalls of drainage structures.

ID	Avoidance and Minimization Measure
	Construction
61	Minimize ground disturbance to the smallest area feasible.
62	Use existing roads for access and disturbed area for staging as site constraints allow. Off-road travel will avoid sensitive communities such as wetlands and known occurrences of covered plants.
63	Prepare and implement sediment erosion control plans.
64	No winter grading unless approved by City Engineer and specific erosion control measures are incorporated.
65	Control exposed soil by stabilizing slopes (e.g., with erosion control blankets) and protecting channels (e.g., using silt fences or straw wattles).
66	Control sediment runoff using sandbag barriers or straw wattles.
67	No stockpiling or placement of erodible materials in waterways or along areas of natural stormwater flow where materials could be washed into waterways.
68	Stabilize stockpiled soil with geotextile or plastic covers.
69	Maintain construction activities within a defined project area to reduce the amount of disturbed area.
70	Only clear/prepare land which will be actively under construction in the near term.
71	Preserve existing vegetation to the extent possible.
72	Equipment storage, fueling and staging areas will be sited on disturbed areas or non-sensitive habitat outside of a stream channel.
73	Avoid wet season construction.
74	Stabilize site ingress/egress locations.
75	Dispose of all construction waste in designated areas and prevent stormwater from flowing onto or off of these areas.
76	Prevent spills and clean up spilled materials.
77	Sweep nearby streets at least once a day.
78	In-stream projects occurring while the stream is flowing must use appropriate measures to protect water quality, native fish and covered wildlife species at the project site and downstream of the project site.
79	If mercury contamination may be present, the channel must be dewatered prior to commencement of the activity.
80	All personnel working within or adjacent to the stream setback (i.e., those people operating ground-disturbing equipment) will be trained by a qualified biologist in these avoidance and minimization measures and the permit obligations of project proponents working under this Plan.
81	Temporary disturbance or removal of aquatic and riparian vegetation will not exceed the minimum necessary to complete the work.
82	Channel bed temporarily disturbed during construction activities will be returned to pre-project or ecologically improved conditions at the end of construction.
83	Sediments will be stored and transported in a manner that minimizes water quality impacts. If soil is stockpiled, no runoff will be allowed to flow back to the channel.
84	Appropriate erosion control measures (e.g., fiber rolls, filter fences, vegetative buffer strips) will be used on site to reduce siltation and runoff of contaminants into wetlands, ponds, streams, or riparian vegetation. Fiber rolls used for erosion control will be certified as free of noxious weed seed. Filter fences and mesh will be of material that will not entrap reptiles and amphibians. Erosion control measures will be placed between the outer edge of the buffer and the project site.
85	Seed mixtures applied for erosion control will not contain invasive nonnative species and will be composed of native species or sterile nonnative species. If sterile nonnative species are used for temporary erosion control, native seed mixtures must be used in subsequent treatments to provide long-term erosion control and slow colonization by invasive nonnatives.
86	Topsoil removed during soil excavation will be preserved and used as topsoil during revegetation when it is necessary to conserve the natural seed bank and aid in revegetation of the site.
87	Vehicles operated within and adjacent to streams will be checked and maintained daily to prevent leaks of materials that, if introduced to the water, could be deleterious to aquatic life.

ID	Avoidance and Minimization Measure
88	Vehicles and equipment will be parked on pavement, existing roads, and previously disturbed areas.
89	The potential for traffic impacts on terrestrial animal species will be minimized by adopting traffic speed limits.
90	All trash will be removed from the site daily to avoid attracting potential predators to the site. Personnel will clean the work site before leaving each day by removing all litter and construction-related materials.
91	To prevent the spread of exotic species and reduce the loss of native species, aquatic species will be netted at the drain outlet when draining reservoirs or ponds to surface waters. Captured native fish, native amphibians, and western pond turtles will be relocated if ecologically appropriate. Exotic species will be dispatched.
92	To minimize the spread of pathogens all staff working in aquatic systems (i.e., streams, ponds, and wetlands)—including site monitors, construction crews, and surveyors—will adhere to the most current guidance for equipment decontamination provided by the Wildlife Agencies at the time of activity implementation. Guidance may require that all materials that come in contact with water or potentially contaminated sediments, including boot and tire treads, be cleaned of all organic matter and scrubbed with an appropriate cleansing solution, and that disposable gloves be worn and changed between handling equipment or animals. Care should be taken so that all traces of the disinfectant are removed before entering the next aquatic habitat.
93	When accessing upland areas adjacent to riparian areas or streams, access routes on slopes of greater than 20% should generally be avoided. Subsequent to access, any sloped area should be examined for evidence of instability and either revegetated or filled as necessary to prevent future landslide or erosion.
94	Personnel shall use existing access ramps and roads if available. If temporary access points are necessary, they shall be constructed in a manner that minimizes impacts to streams.
95	To prevent inadvertent entrapment of animals during excavation, all excavated, steep-walled holes or trenches more than 2-feet deep will be covered at the close of each working day by plywood or similar materials, or provided with one or more escape ramps constructed of earth fill or wooden planks.
96	Isolate the construction area from flowing water until project materials are installed and erosion protection is in place.
97	Erosion control measures shall be in place at all times during construction. Do not start construction until all temporary control devices (straw bales, silt fences, etc.) are in place downstream of project site.
98	When needed, utilize in-stream grade control structures to control channel scour, sediment routing, and headwall cutting.
	Post-Construction
99	Conduct street cleaning on a regular basis
100	Potential contaminating materials must be stored in covered storage areas or secondary containment that is impervious to leaks and spills
101	Runoff pathways shall be free of trash containers or trash storage areas. Trash storage areas shall be screened or walled
102	Immediately after project completion and before close of seasonal work window, stabilize all exposed soil with mulch, seeding, and/or placement of erosion control blankets .
103	All disturbed soils will be revegetated with native plants and/or grasses or sterile nonnative species suitable for the altered soil conditions upon completion of construction. Local watershed native plants will be used if available. If sterile nonnative species are used for temporary erosion control, native seed mixtures must be used in subsequent treatments to provide long-term erosion control and slow colonization by invasive nonnatives. All disturbed areas that have been compacted shall be de-compacted prior to planting or seeding. Cut-and-fill slopes will be planted with local native or non-invasive plants suitable for the altered soil conditions.
104	Measures will be utilized on site to prevent erosion along streams (e.g., from road cuts or other grading), including in streams that cross or are adjacent to the project proponent's property. Erosion control measures will utilize natural methods such as erosion control mats or fabric, contour wattling, brush mattresses, or brush layers. For more approaches and detail, please see the *Bank Protection/ Erosion Repair Design Guide* in the Santa Clara Valley Water Resources Protection Collaborative's *User Manual: Guidelines & Standards for Land Use Near Streams* (Santa Clara Valley Water Resources Protection Collaborative 2006).

ID	Avoidance and Minimization Measure
105	Vegetation and debris must be managed in and near culverts and under and near bridges to ensure that entryways remain open and visible to wildlife and that passage through the culvert or bridge remains clear.
106	Prior to undertaking stream maintenance activities, reach conditions will be assessed to identify tasks that are necessary to maintain the channel for the purpose for which it was designed and/or intended (e.g., flood control, groundwater recharge). Only in-stream work that is necessary to maintain the channel will be conducted.
107	On streams managed for flood control purposes, when stream reaches require extensive vegetation thinning or removal (e.g., when the channel has been fully occluded by willows or other vegetation), removal will be phased so that some riparian land cover remains and provides some habitat value. In addition, vegetation removal will be targeted and focused on removing the least amount of riparian vegetation as possible while still meeting the desired flood control needs. For example, vegetation removal should be focused on shrubby undergrowth at the toe-of-slope that is most likely to increase roughness and create a flooding hazard. Vegetation on the upper banks, particularly mature tree canopy, should be maintained to the extent possible to provide habitat for birds and small mammals and shading for the active channel.
108	When reaches require sediment removal, approaches will be considered that may reduce the impacts of the activity. Examples of potential approaches include phasing of removal activities or only removing sediment along one half of the channel bed, allowing the other half to remain relatively undisturbed.
109	In streams not managed for flood control purposes, woody material (including live leaning trees, dead trees, tree trunks, large limbs, and stumps) will be retained unless it is threatening a structure, impedes reasonable access, or is causing bank failure and sediment loading to the stream.
110	If debris blockages threaten bank stability and may increase sedimentation of downstream reaches, debris will be removed. When clearing natural debris blockages (e.g., branches, fallen trees, soil from landslides) from the channel, only remove the minimum amount of debris necessary to maintain flow conveyance (i.e., prevent significant backwatering or pooling). Non-natural debris (e.g., trash, shopping carts, etc.) will be fully removed from the channel.
111	If bank failure occurs due to debris blockages, bank repairs will only use compacted soil, and will be re-seeded with native grasses or sterile nonnative hybrids and stabilized with natural erosion control fabric. If sterile nonnative species are used for temporary erosion control, native seed mixtures must be used in subsequent treatments to provide long-term erosion control and slow colonization by invasive nonnatives. If compacted soil is not sufficient to stabilize the slope, bioengineering techniques must be used. No hardscape (e.g., concrete or any sort of bare riprap) or rock gabions may be utilized in streams not managed for flood control except in cases where infrastructure or human safety is threatened (e.g., undercutting of existing roads). Rock riprap may only be used to stabilize channels experiencing extreme erosion, and boulders must be backfilled with soil and planted with willows or other native riparian species suitable for planning in such a manner. If available, local native species will be utilized as appropriate.
112	Pumps and generators shall be maintained and operated in a manner that minimizes impacts to water quality and aquatic species.
113	The channel bottom shall be re-graded at the end of the work project to as close to original conditions as possible.
114	Erosion control methods shall be used as appropriate during all phases of routine maintenance projects to control sediment and minimize water quality impacts.
115	All construction pipes, culverts, or similar structures with a diameter of 4 inches or greater that are stored at a construction site for one or more overnight periods will be thoroughly inspected for wildlife by properly trained construction personnel before the pipe is subsequently buried, capped, or otherwise used or moved in anyway.

ATTACHMENT D

APPENDIX K Statement of Special Inspections

CITY OF MORGAN HILL

Community Development Agency
Building Division
17575 Peak Ave
Morgan Hill, CA 95037-4128
Phone: (408) 778-6480
Fax: (408) 779-7236

STATEMENT OF SPECIAL INSPECTIONS

Site Address: 18300 Peet Road	Permit Number: BCOM2017-0071
Owner: Santa Clara Valley Water District Address: 5750 Almaden Expressway City, State, Zip: San Jose CA 95118 Phone: 408-265-2600	Contractor: Address: City, State, Zip: Phone:
Applicant: Santa Clara Valley Water District Address: 5750 Almaden Expressway City, State, Zip: San Jose CA 95118 Phone: 408-265-2600	Engineer/Architect: Siegfried Address: 3244 Brookside Road, Suite 100 City, State, Zip: Stockton CA 95219 Phone: 209-943-2021
PROJECT DESCRIPTION:	

This "STATEMENT OF SPECIAL INSPECTIONS" is submitted in fulfillment of the requirements of CBC Sections 1704 and 1705. This form is structured after and used by permission from the Structural Engineer Association of Northern California's (SEAONC) mode statement of Special Inspections. Also, included with this form is the following:

☒ "LIST OF SPECIAL INSPECTION AGENCIES (page 2). A list of testing agencies and other special inspectors that will be retained to conduct the tests and inspections for this project

☒ "SCHEDULE OF SPECIAL INSPECTION" (page 3 – 11). The Schedule of Special Inspections summarizes the Special Inspections and tests required. Special Inspectors will refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests and inspections required by the approved plans and specifications shall also be performed.

Special Inspections and Testing will be performed in accordance with the approved plans and specifications, this statement and CBC Sections 1704, 1705, 1706, 1707, and 1708. Interim reports will be submitted to the Building Official or designee and the Registered Design Professional in Responsible Charge in accordance with the CBC.

A Final Report of Special Inspections documenting required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy. The Final Report will document:

- Required special inspections.
- Correction of discrepancies noted in inspections

The Owner recognizes his or her obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections. In partial fulfillment of these obligations, the Owner will retain and directly pay for the Special Inspections as required in CBC Chapter 17.

This plan has been developed with the understanding that the Building Official or designee will:

- Review and approve the qualifications of the Special Inspectors who will perform the inspections.
- Monitor special inspection activities on the job site to assure that the Special Inspectors are qualified and are performing their duties as called for in this Statement of Special Inspection.
- Review submitted inspection reports.
- Perform inspections as required by the local building code.

I have read and agree to comply with the terms and conditions of this statement

Prepared By: Project ☒ Engineer ☐ Architect Registered Design Professional in Charge	Signature 	Lic. # 62498	Date: 10/25/18
Owner Authorization:	Signature		Date:
Inspection Agency:	Signature	Lic. #	Date:
Building Official:	Signature		Date:

LIST OF SPECIAL INSPECTION AGENCIES

Approval Of Special Inspectors:
Each special inspection agency, testing facility, and special inspector shall be recognized by the Building Official or designee prior to performing any duties. Special inspectors shall carry approved identification when performing the functions of a special inspector. Identification cards shall follow the criteria set by the California Council of Testing and Inspection Agencies. No personnel changes shall be made without first obtaining the approval of the Building Official or designee. Any unauthorized personnel changes may result in a "Stop Work Order" and possible permit revocation.

The following are the testing and special inspection agencies that will be retained to conduct tests and inspection on this project:

EXPERTISE	FIRM INSPECTION INFORMATION
1. Special Inspection (except for geotechnical)	Name: Address: City, State, Zip: Phone: Email:
2. Material Testing	Name: Address: City, State, Zip: Phone: Email:
3. Geotechnical Inspections	Name: Address: City, State, Zip: Phone: Email:
4. Other:	Name: Address: City, State, Zip: Phone: Email:

SEISMIC REQUIREMENTS (CBC Chapter 17)

Description of seismic-force-resisting system and designated seismic systems subject to special inspections:
Longitudinal - Ordinary concentrically braced frames
Transverse - Ordinary moment frames (Tie-rod bracing @ roof diaphragm)

The extent of the seismic-force-resisting system is defined in more detail in the construction documents.

WIND REQUIREMENTS (CBC Chapter 17)

Description of main wind-force-resisting system and designated wind resisting components subject to special inspections:
Same as above

The extent of the main wind-force-resisting system and wind resisting components is defined in more detail in the construction documents.

SCHEDULE OF SPECIAL INSPECTION

Notation Used in Table:

Column headers:
- C Indicates continuous inspection is required.
- P Indicates periodic inspections are required. The notes and/or contract documents should clarify.

Box entries:
- X Is placed in the appropriate column to denote either "C" continuous or "P" periodic inspections.
- --- Denotes an activity that is either a one-time activity or one whose frequency is defined in some other manner.

Additional detail regarding inspections and tests are provided in the project specifications or notes on the drawings.

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
INSPECTION OF FABRICATORS				
1. ☐ Inspect fabricator's fabrication and quality control procedures.	---	---		
INSPECTION OF STEEL				
1. Material verification of high-strength bolts, nuts and washers.				
☒ Identification marking to conform to ASTM std specified in the approved construction documents.	---	X	AISC 360, Section A3.3 and applicable ASTM material standards	
☐ Inspect fabricator's fabrication and quality control procedures.	---	X	---	---
2. Inspection of high-strength bolting:				
☒ Snug-tight joints.	---	X	AISC 360, Section M2.5	
☒ Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation.	---	X		
☐ Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation.	X	---		
3. Material verification of structural steel and cold-formed steel deck.				
☐ For structural steel, identification markings to conform to AISC 360.	---	X	AISC 360, Section M2.5	
☐ For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.	---	X	Applicable ASTM material standards	
☐ Manufacturer's certified test reports.	---	X		
4. Material verification of weld filler materials:				
☐ Identification marking to conform to AWS specification in the approved construction documents.	---	X	AISC 360, Section A3.5 and applicable AWS A5 documents	---
☐ Manufacturer's certificate of compliance required.	---	X	---	---

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
5. Inspection of welding:				
a. Structural steel and cold-formed steel deck:				
☒ Complete and partial joint penetration groove welds.	X	---	AWS D1.1	
☐ Multipass fillet welds.	X	---		
☒ Single-pass fillet welds > 5/16”	X	---		
☐ Plug and slot welds.	X	---		
☒ Single-pass fillet welds <= 5/16”	---	X		
☒ Floor and roof deck welds.	---	X	AWS D1.3	
b. Reinforcing steel:				
☐ Verification of weldability of reinforcing steel other than ASTM A 706.	---	X	AWS D1.4 ACI 318: Section 3.5.2	---
☐ Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X	---		
☐ Shear reinforcement.	X	---		
☐ Other reinforcing steel.	---	X		
6. Inspection of steel frame joints details for compliance:				
☒ Details such as bracing and stiffening.	---	X	---	
☒ Member locations.	---	X		
☒ Application of joint details at each connection.	---	X		
INSPECTION OF WELDING				
1. ☐ Welded studs when used for structural diaphragms.	---	X	---	
2. ☐ Welding of cold-formed steel framing members.	---	X		
3. ☐ Welding of stairs and railing systems.	---	X		

INSPECTION OF CONCRETE				
1. ☒ Inspection of reinforcing steel, including prestressing tendons and placement.	---	X	ACI 318: 3.5, 7.1-7.7	
2. ☐ Inspection of reinforcing steel welding in accordance with CBC Ch. 17	---	---	AWS D1.4 ACI 318: 3.5.2	---
3. ☒ Inspection of bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used.	X	---	ACI 318: 8.1.3, 21.2.8	
4. ☒ Inspection of anchors installed in hardened concrete.	---	X	ACI 318:	
5. ☒ Verifying use of required design mix.	---	X	ACI 318:	

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
6. ☒ At time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.	X	---	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	
7. ☒ Inspection of concrete and shotcrete placement for proper application techniques.	X	---	ACI 318: 5.9, 5.10	
8. ☐ Inspection for maintenance of specified curing temperature and techniques.	---	X	ACI 318: 5.11-5.13	
9. Inspection of prestressed concrete:				
☐ Application of prestressing forces.	X	---	ACI 318: 18.20	---
☐ Grouting of bonded prestressing tendons in the seismic force-resisting system.	X	---	ACI 318: 18.18.4	
10. ☐ Erection of precast concrete members.	---	X	ACI 318: Ch. 16	---
11. ☐ Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	---	X	ACI 318: 6.2	---
12. ☐ Inspect formwork for shape, location, and dimensions of the concrete member being formed.	---	X	ACI 318: 6.6.1	---
13. ☒ Bolts Installed in Existing Masonry or Concrete				
☐ Direct tension testing of existing anchors.	---	X	See ICC ES Reports form special inspection requirements for proprietary products	
☐ Direct tension testing of new bolts.	---	X		
☐ Torque testing of new bolts.	---	X		
☐ Prequalification test for bolts and other types of anchors.	---	X		
14. ☐ Other:				

VERIFICATION AND INSPECTION	C	P	REFERENCE FOR CRITERIA		
			CBC SECTION	TMS 402IACI	TMS 402IACI
INSPECTION OF LEVEL 1 MASONRY					
1. ☒ Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	---	X	---	---	Art. 1.5
2. ☒ Verification of f'_m and f'_{AAC} prior to construction except where specifically exempted by this code.	---	X	---	---	Art. 1.4B
3. ☐ Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	X	---	---	---	Art. 1.5B.1.b.3
4. As masonry construction begins, the following shall be verified to ensure compliance:					
☐ Proportions of site-prepared mortar.	---	X	---	---	Art. 2.6A
☐ Construction of mortar joints.	---	X	---	---	Art.3.3B
☐ Location of reinforcement, connectors, prestressing tendons, and anchorages.	---	X	---	---	Art. 3.4, 3.6A
☐ Prestressing technique.	---	X	---	---	Art. 3.6B
☐ Grade and size of prestressing tendons and anchorages.	---	X	---	---	Art. 2.4B, 2.4H
5. During construction the inspection program shall verify:					
☐ Size and location of structural elements.	---	X	---	---	Art. 3.3F
☒ Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	---	X	---	Sec. 1.2.2(e), 1.16.1	---
☒ Specified size, grade, and type of reinforcement, anchor bolts, prestressing tendons and anchorages.	---	X	---	Sec. 1.15	Art. 2.4, 3.4
☐ Welding of reinforcing bars.	X	---	---		---
☐ Preparation, construction and protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F).	---	X		---	Art. 1.8C, 1.8D
☐ Application and measurement of prestressing force.	X	---	---	---	Art. 3.6B
6. Prior to grouting the following shall be verified to ensure compliance:					
☒ Grout space is clean.	---	X	---	---	Art. 3.2D
☒ Placement of reinforcement and connectors and prestressing tendons and anchorages.	---	X	---	Sec. 1.3	Art. 3.4
☐ Proportions of site-prepared grout and prestressing grout for bonded tendons.	---	X	---	---	Art. 2.6B
☒ Construction of mortar joints.	---	X	---	---	Art. 3.3B
7. Grout placement:					
☒ Grout placement shall be verified ensure compliance.	X	---	---	---	Art. 3.5
☐ Observe grouting of prestressing bonded tendons.	X	---	---	---	Art 3.6C

VERIFICATION AND INSPECTION	C	P	REFERENCE FOR CRITERIA		
			CBC SECTION	TMS 402IACI	TMS 402IAC
8. ☒ Preparation of any required grout specimens, mortar specimens, and/or prisms shall be observed.	---	X		---	Art. 1.4
INSPECTION OF LEVEL 2 MASONRY					
1. ☐ Compliance with required inspection provisions of the construction documents and the approved submittals.	---	X	---	---	Art. 1.5
2. ☐ Verification of f'_m and f'_{AAC} prior to construction and for every 5,000 square feet during construction.	---	X	---	---	Art. 1.4B
3. ☐ Verification of proportions of materials in premixed or preblended mortar and grout as delivered to the site.	---	X	---	---	Art. 1.5B
4. ☐ Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	X	---	---	---	Art. 1.5B.1.b.3
5. The following shall be verified to ensure compliance:					
☐ Proportions of site-prepared mortar, grout, and prestressing grout for bonded tendons.	---	X	---	---	Art. 2.6A
☐ Placement of masonry units and construction of mortar joints.	---	X	---	---	Art. 3.3B
☐ Placement of reinforcement, connectors and prestressing tendons and anchorages.	---	X	---	Sec. 1.15	Art. 3.4, 3.6A
☐ Grout space prior to grouting.	X	---	---	---	Art. 3.2D
☐ Placement of grout.	X	---	---	---	Art. 3.5
☐ Placement of prestressing grout.	X	---	---	---	Art. 3.6C
☐ Size and location of structural elements.	---	X	---	---	Art. 3.3F
☐ Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames and other construction.	X	---	---	Sec.1.2.2(e)	---
☐ Specified size, grade, and type of reinforcement, anchor bolts, prestressing tendons and anchorages.	---	X	---	Sec. 1.15	Art. 2.4, 3.4
☐ Welding of reinforcing bars.	X	---	---	Sec. 2.1.9.7.2, 3.3.3.4 (b)	---
☐ Preparation, construction, and protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F).	---	X		---	Art. 1.8C, 1.8D
☐ Application and measurement of prestressing force.	X	---	---	---	Art. 3.6B
6. ☐ Preparation of any required grout specimens, mortar specimens, and/or prisms shall be observed.	X	---		---	Art. 1.4

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
INSPECTION OF WOOD				
1. ☐ Inspect prefabricated wood structural elements and assemblies.	---	---	---	
2. ☐ Inspect site built assemblies.	---	---		
3. Inspect high-load diaphragms:				
☐ Verify grade and thickness of sheathing.	---	---	---	
☐ Verify nominal size of framing members at adjoining panel edges.	---	---		
☐ Verify nail or staple diameter and length,	---	---		
☐ Verify number of fastener lines,	---	---		
☐ Verify spacing between fasteners in each line and at edge margins.	---	---		
4. ☐ Metal-plate-connected wood trusses spanning 60 feet or greater: Verify temporary installation restraint/bracing and the permanent individual truss member bracing are installed in accordance with the approved truss submittal package.	---	X	---	
REQUIRED VERIFICATION AND INSPECTION OF SOIL				
1. ☒ Verify materials below footings are adequate to achieve the desired bearing capacity.	---	X	---	
2. ☒ Verify excavations are extended to proper depth and have reached proper material.	---	X		
3. ☐ Perform classification and testing of compacted fill materials.	---	X		
4. ☒ Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	---		
5. ☒ Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	---	X		
REQUIRED VERIFICATION AND INSPECTION OF DEEP DRIVEN FOUNDATION ELEMENTS				
1. ☐ Verify element materials, sizes and lengths comply with the requirements.	X	---	---	
2. ☐ Determine capacities of test elements and conduct additional load tests, as required.	X	---		
3. ☐ Observe driving operations and maintain complete and accurate records for each element.	X	---		
4. ☐ Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element.	X	---		
5. ☐ For steel elements, perform additional inspections in accordance with CBC Ch. 17	---	---		
6. ☐ For concrete elements and concrete filled elements, perform additional inspections in accordance with CBC Ch. 17	---	---		

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
7. ☐ For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	---	---	---	
REQUIRED VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS				
1. ☐ Observe drilling operations and maintain complete and accurate records for each element.	X	---	---	
2. ☐ Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable), and adequate end-bearing strata capacity. Record concrete or grout volumes.	X	---		
3. ☐ For concrete elements, perform additional inspections in accordance with CBC Ch. 17	---	---		
HELICAL PILE FOUNDATIONS				
1. ☐ Record installation equipment used, pile dimensions, tip elevations, final depth, final installation torque.	X	---	---	
SPRAYED FIRE-RESISTANT MATERIALS				
Physical and visual tests				
1. Condition of substrates.				
☐ Inspect surface for accordance with the approved fire-resistance design and the approved manufacturer's written instructions.	---	---	---	
☐ Verify minimum ambient temperature before and after application.	---	X		
☐ Verify ventilation of area during and after application.	---	X		
2. ☐ Measure average thickness per ASTM E 605.	---	---		
3. ☐ Verify density of material for conformance with the approved fire-resistant design and ASTM E605.	---	---		
4. ☐ Test cohesive/adhesive bond strength.	---	---		
5. ☐ Condition of finished application.				
MISCELLANEOUS				
1. Mastic and Intumescent Fire-Resistant Coating.	---	---	---	
2. Exterior Insulation and Finish Systems (EIFS). Water-resistive barrier coating when installed over a sheathing substrate.	---	---	---	
3. Special Cases	---	---	---	
4. Smoke Control System	---	---	---	
5. Seismic Resistance				
☒ Suspended ceiling systems and their anchorage. (Crane)	---	---	---	

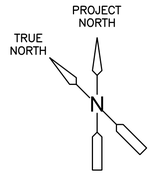
VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
6. Wind Resistance				
☐ Roof cladding and roof framing connections.	---	---	---	
☐ Wall connections to roof and floor diaphragms and framing.	---	---	---	
☐ Roof and floor diaphragm systems, including collectors, drag struts and boundary elements.	---	---	---	
☐ Vertical wind-force-resisting systems, including braced frames, moment frames, and shear walls.	---	---	---	
☐ Wind-force-resisting system connections to the foundation.	---	---	---	
☐ Fabrication and installation of systems or components required to meet the impact resistance.	---	---	---	
SPECIAL INSPECTION FOR WIND REQUIREMENTS				
1. Structural Wood				
☐ Inspect field gluing operations of elements of the main wind-force-resisting system.	X	---	---	
☐ Inspect nailing, bolting, anchoring, and other fastening of components within the main wind force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces and hold-downs.	---	X		
2. Cold-Formed Steel Framing				
☐ Welding of elements of the main wind-force-resisting system.	---	X	---	
☐ Inspection of screw attachments, bolting, anchoring, and other fastening of components within the main wind-force-resisting system including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	---	X		
3. Wind-resisting components				
☐ Roof cladding.	---	X	---	
☐ Wall cladding.	---	X		
SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE				
1. ☐ Special inspection for welding in accordance with the quality assurance plan requirements of AISC 341.	X	---		
2. Structural Wood				
☐ Inspect field gluing operations of elements of the seismic-force-resisting system.	X	---		
☐ Inspect nailing, bolting, anchoring, and other fastening of components within the seismic-force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold-downs.	---	X		
3. Cold-Formed steel light-frame construction				
☐ Welding of elements of the seismic-force-resisting system.	---	X		

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
☐ Inspection of screw attachments, bolting, anchoring, and other fastening of components within the seismic-force-resisting system including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	---	X		
4. Storage racks and access floors				
☒ Anchorage of storage racks 8 feet or greater in height and access floors.	---	X		
5. Architectural components				
☐ Inspect erection and fastening of exterior cladding weighing more than 5 psf and higher than 30 feet above grade or walking surface.	---	X	---	
☐ Inspect erection and fastening of veneer weighing more than 5 psf.and higher than 30 feet above grade or walking surface.	---	X		
☐ Inspect erection and fastening of all exterior non- bearing walls higher than 30 feet above grade or walking surface.	---	X		
☐ Inspect erection and fastening of all interior non- bearing walls weighing more than 15 psf and higher than 30 feet above grade or walking surface.	---	X		
6. Mechanical and Electrical Components				
☐ Inspect anchorage of electrical equipment for emergency or stand-by power systems.	---	X	---	
☐ Inspect anchorage of non-emergency electrical equipment.	---	X		
☐ Inspect installation of piping systems and associated mechanical units carrying flammable, combustible, or highly toxic contents.	---	X		
☐ Inspect installation of HVAC ductwork that contains hazardous materials.	---	X		
☐ Inspect installation of vibration isolation systems where required by CBC Ch. 17	---	X		
7. ☐ Verify that the equipment label and anchorage or mounting conforms to the certificate of compliance when mechanical and electrical equipment must be seismically qualified.	---	---	---	
8. ☐ Seismic isolation system: Inspection of isolation system per ASCE 7	---	X	---	
9. ☐ Obtain mill certificates for reinforcing steel, verify compliance with approved construction documents, and verify steel supplied corresponds to certificate.	---	---	---	
10. ☐ Structural Steel: Invoke the QAP Quality Assurance requirements in AISC 341.	---	---	---	
11. ☐ Obtain certificate that equipment has been seismically qualified.	---	---	---	
12. ☐ Obtain system tests as required by ASCE 7	---	---	---	

ATTACHMENT E

SHEETS G-05, G-09, G-10, GD-1, GL-1, L-01, L-02, LD-1, LD-2, C-01, C-02, C-03, CD-1, CD-2, CD-3, CD-4, CD-5, CD-6, GA-02, A-05, P0.1, P2.1, E7.0, SC-01 and SC-02

SIGN CODE



NORTH ARROW

SIGN S — SIGN IN PLAN VIEW, TYPE S SIGN INDICATED (STOP SIGN)

1 — KEY NOTE

1 — COLUMN OR WALL TAG AND LINE, NUMBERS AND LETTERS ARE USED

N 264700
E 1610600 — NORTHING AND EASTING COORDINATES

EB-1 — SOIL BORING AND TAG

ELEVATION CHANGE AT LINE

CONTROL POINT

SYMBOL	FEATURE
84	DEPRESSION CONTOUR
84	EXISTING CONTOUR AND ELEVATION
85	NEW CONTOUR AND ELEVATION
365.7 OR 365.7	EXISTING SPOT ELEVATION
	EXISTING EMBANKMENT (REVERSE SYMBOLS FOR CHANNEL)
	PROPOSED EMBANKMENT (REVERSE SYMBOLS FOR CHANNEL)
	EXISTING FACILITY
	NEW OR MODIFIED EXISTING FACILITY (DARKER LINE WORK)
	EXISTING VEGETATION
	EDGE OF EXISTING TREES, BUSHES, OR OTHER VEGETATION
	EXISTING LIGHT POLE
	EXISTING FIRE HYDRANT
	NEW FIRE HYDRANT
UT, WT, EL VLT, TEL, SLS, COMM, VLT, EL, W, WT VLT, CTRL, WM, ICV, TV	*EXISTING UTILITY BOXES, VAULTS, HANDHOLES, MANHOLES*
	EXISTING DROP INLET
	NEW MANHOLE
	NEW CATCH BASIN
X—X	*EXISTING FENCING*
E—E	*EXISTING UNDERGROUND ELECTRICAL*
SD—SD	*EXISTING UNDERGROUND STORM DRAIN*
W—W	*EXISTING WATER MAIN*
	NEW DECORATIVE METAL FENCE
	NEW CHAIN LINK FENCE
	DEMOLITION OF EXISTING IMPROVEMENT
	RETAINING WALL

SYMBOL	FEATURE
	BASIN TOE
	GRADE BREAK OR RIDGE LINE
	LIMIT OF WORK
	DRAIN SWALE OR TOP OF SLOPE
	PROPERTY LINE

SYMBOL	FEATURE
	SCARIFY SOIL
	SAND
	AGGREGATE BASE, CLASS II
	STRUCTURAL FILL/ BACKFILL
	NON-STRUCTURAL FILL/BACKFILL
	UNDISTURBED EARTH
	EROSION CONTROL SURFACE RESTORATION
	LANDSCAPE BACKFILL

SYMBOL	FEATURE
	AC PAVEMENT (TI=7.0)
	GRAVEL YARD AREA
	EXTERIOR CONCRETE
	BUILDING CONCRETE
	WATER QUALITY PLANTING
	ROCK STABILIZATION
	PERMEABLE MATERIAL, CLASS II
	BARK MULCH

1

1

GRADING

419.50EG	EXISTING GROUND ELEVATION
419.50P	TOP OF PAVEMENT ELEVATION
419.50FG	FINISHED GRADE ELEVATION
416.50FL	FLOW LINE ELEVATION
3.51%	SLOPE OF FINISHED SURFACE
417.80HDR	TOP OF HEADER BOARD ELEVATION
419.50C	TOP OF CONCRETE ELEVATION

DOCUMENT NUMBER: CPP-G-9123-60231

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: PJS
DRAWN: MWK
CHECKED: PJS

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — PAUL J. SCHNEIDER — No. 62498 — Exp. 09/30/19 — CIVIL — STATE OF CALIFORNIA

9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT
PROJECT ENGINEER — DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

GENERAL SYMBOLS

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

PROJECT NUMBER: 91234011
SHEET CODE: G-05
SHEET NUMBER: 5 OF 59

NOTES:

1. BASIS OF BEARING AND ELEVATION DATUM IS:
   HORIZONTAL DATUM: NAD 83 CCS 1983 ZONE 3
2. VERTICAL DATUM: NAVD88 US FEET
3. BASIS OF ELEVATION: BM391 ELEV. 414.74 BRASS DISK ON SE CORNER OF RAISED CONCRETE SLAB NEAR SE CORNER OF COYOTE PUMP STATION BLDG.
4. SEE DISCIPLINE DRAWINGS FOR ADDITIONAL SYMBOLS AND NOTES.
5. TYPICAL DETAILS SHALL BE USED FOR ALL PERMANENT WORK EVEN THOUGH THEY ARE NOT CALLED OUT AT ALL LOCATIONS WHERE THEY APPLY.
6. REQUIREMENTS FOR EXPLORATORY EXCAVATION AND LOCATION OF EXISTING FACILITIES PRIOR TO LAYOUT OF NEW WORK ARE SPECIFIED IN THE PROJECT SPECIFICATIONS.
7. COORDINATES OF AND DIMENSIONS TO STRUCTURES SHOWN ON THE DRAWINGS ARE TO THE OUTSIDE OF WALL UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL PROTECT ALL EXISTING APPURTENANCES THAT REMAIN INCLUDING THOSE LOCATED WITHIN PAVED AREAS, WHETHER OR NOT SHOWN ON THE DRAWINGS, UNTIL READJUSTED. SUCH ITEMS INCLUDE BUT ARE NOT LIMITED TO VALVE CANS, ELECTRICAL MANHOLES, PULL BOXES, CATHODIC PROTECTION TEST STATIONS, MANHOLE AND CLEANOUT CASTINGS, AND SURVEY MONUMENTS.
9. SIZES AND TOP ELEVATIONS OF CONCRETE PADS FOR EQUIPMENT (E.G., PROCESS, MECHANICAL, ELECTRICAL, ETC.) SHOWN ON THE DRAWINGS MAY DIFFER FROM THAT REQUIRED FOR THE APPROVED EQUIPMENT. EQUIPMENT SUBMITTALS SHALL BE APPROVED BEFORE FINALIZING PAD DIMENSIONS AND THE DIMENSIONS AND ANCHORAGE NEEDS OF THE APPROVED EQUIPMENT DETERMINED PRIOR TO CONCRETE FORMING AND REBAR FABRICATION. CONTRACTOR SHALL INCREASE OR DECREASE EQUIPMENT PAD DIMENSIONS AS REQUIRED AT NO ADDITIONAL COST TO THE DISTRICT. CONFIRM LAYOUT WITH ENGINEER FOR DIMENSION CHANGES GREATER THAN 6 INCHES IN ANY DIRECTION.

SITE PREPARATION:

GENERAL

IT IS ANTICIPATED THAT SITE GRADING CAN BE PERFORMED WITH CONVENTIONAL GRADING EQUIPMENT AND TECHNIQUES. IN ORDER TO ESTABLISH THE PROPOSED GRADES, THE EXISTING STOCKPILES WILL NEED TO BE REMOVED DURING GRADING. SUBSEQUENT SITE GRADING IS ANTICIPATED TO BE MINIMAL AND CONSIST OF MINOR GRADING FOR A LEVEL BUILDING PAD, DRAINAGE AND SITE ACCESS. RECOMMENDATIONS FOR SITE PREPARATION AND EARTHWORK CONSTRUCTION ARE PRESENTED BELOW. ALL REFERENCES TO COMPACTION, MAXIMUM DENSITY AND OPTIMUM MOISTURE CONTENT ARE BASED ON ASTM D1557, UNLESS OTHERWISE NOTED.

STRIPPING AND DEMOLITION

AREAS TO RECEIVE FILL AND STRUCTURES SHALL BE STRIPPED OF EXISTING SURFACE VEGETATION, ORGANIC TOPSOIL, DEBRIS, AND ANY OTHER DELETERIOUS MATERIALS PRIOR TO OVER-EXCAVATION OR PLACEMENT OF ENGINEERED FILL. ANY STRIPPED ORGANIC MATERIALS OR DEBRIS SHOULD NOT BE REUSED AS ENGINEERED FILL. EXISTING VEGETATION SHOULD BE STRIPPED TO A MINIMUM DEPTH OF 3 INCHES PRIOR TO PERFORMING EARTHWORK AT THE SITE. ANY STRIPPED ORGANIC MATERIALS OR DEBRIS SHOULD NOT BE REUSED AS ENGINEERED FILL.

STRIPPING AND REMOVALS SHOULD EXTEND LATERALLY A MINIMUM OF 5 FEET BEYOND THE PERIMETERS OF SHALLOW FOUNDATIONS, CONCRETE FLATWORK, AND ANY OTHER FACILITIES SUPPORTED ON GRADE. THE CONTRACTOR SHOULD BE RESPONSIBLE FOR DEVELOPING AND IMPLEMENTING AN EROSION CONTROL AND STORM WATER POLLUTION PREVENTION PLAN PRIOR TO DISTURBING ANY MATERIALS ON-SITE.

EXISTING UTILITIES

ACTIVE OR INACTIVE UTILITIES WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED, RELOCATED, OR ABANDONED AS APPROPRIATE. PIPES WITHIN PLANNED IMPROVEMENTS SHOULD BE REMOVED. ACTIVE UTILITIES TO BE REUSED SHALL BE CAREFULLY LOCATED AND PROTECTED DURING DEMOLITION AND CONSTRUCTION.

DISTURBED SOIL, UNDOCUMENTED FILL, AND SUBSURFACE OBSTRUCTIONS

INITIAL SITE GRADING SHOULD INCLUDE A REASONABLE SEARCH TO LOCATE SOIL DISTURBED BY PREVIOUS ACTIVITY, UNDOCUMENTED FILL SOILS, ABANDONED UNDERGROUND STRUCTURES AND/OR EXISTING UTILITIES THAT MAY EXIST WITHIN THE AREAS OF CONSTRUCTION. ANY LOOSE OR DISTURBED SOIL, VOID SPACES MADE BY BURROWING ANIMALS, OR UNDOCUMENTED FILL SHOULD BE OVER-EXCAVATED TO EXPOSE FIRM NATIVE SOIL, AS APPROVED BY KLEINFELDER.

RE-USE OF ON-SITE MATERIALS

IF APPLICABLE, EXISTING ASPHALT CONCRETE MAY BE PULVERIZED AND MIXED WITH THE UNDERLYING AGGREGATE BASE AND BLENDED WITH ON-SITE OR IMPORTED MATERIALS, PROVIDED IT MEETS THE GRADATION REQUIREMENTS SHOWN IN TABLE 6.2 OF THE PROJECT GEOTECHNICAL REPORT. RECOMMENDATIONS FOR MATERIALS TO BE USED AS ENGINEERED FILL ARE PROVIDED IN SECTION 6.3 OF THE PROJECT GEOTECHNICAL REPORT.

TABLE 6.1
REUSE OF CRUSHED ASPHALT CONCRETE

Gradation	
Sieve Size	Percentage Passing
3 inch	100 min.
1½ inch	85 min.
No. 200	8 – 40

SIMILARLY, EXISTING CONCRETE SLABS AND FOUNDATIONS, IF PRESENT, MAY BE RECYCLED BY CRUSHING. THE PROCESSED ASPHALT CONCRETE AND AGGREGATE BASE MATERIAL AND/OR CRUSHED CONCRETE MAY BE USED AS "NON-EXPANSIVE" FILL IF THE MATERIAL MEETS THE GRADATION REQUIREMENTS ABOVE AND HAS A PLASTICITY INDEX OF 15 OR LESS, BASED ON ASTM D4318. ASPHALT AND CONCRETE PROCESSED TO MEET THE GRADATION IN TABLE 6.1 ABOVE MAY ALSO BE USED AS GENERAL FILL OUTSIDE OF STRUCTURAL AREAS, OR USED AS A "BASE COURSE" SURFACE FOR PAVED OR UNPAVED ACCESS ROADS.

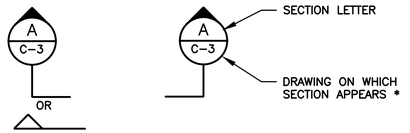
SCARIFICATION AND COMPACTION

AFTER STRIPPING AND PERFORMING ANY NECESSARY REMOVALS, THE BOTTOMS OF EXCAVATIONS TO RECEIVE ENGINEERED FILL, OR SUPPORT FOUNDATIONS, SLABS-ON-GRADE OR PAVEMENTS SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST 8 INCHES, UNIFORMLY MOISTURE CONDITIONED TO AT LEAST 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION BASED ON ASTM D1557 TEST PROCEDURES. THE SUBGRADE SHOULD NOT BE ALLOWED TO DRY OUT PRIOR TO THE PLACEMENT OF ENGINEERED FILL OR THE CONSTRUCTION OF CONCRETE SLABS-ON-GRADE, AND FLATWORK.

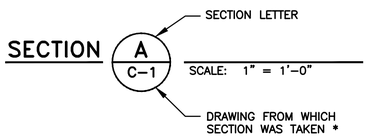
SYMBOLS

SECTION IDENTIFICATION

(A) SECTION CUT ON DRAWING C-1:

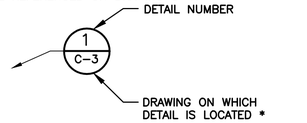


(B) ON DRAWING C-3 THIS SECTION IS IDENTIFIED AS:

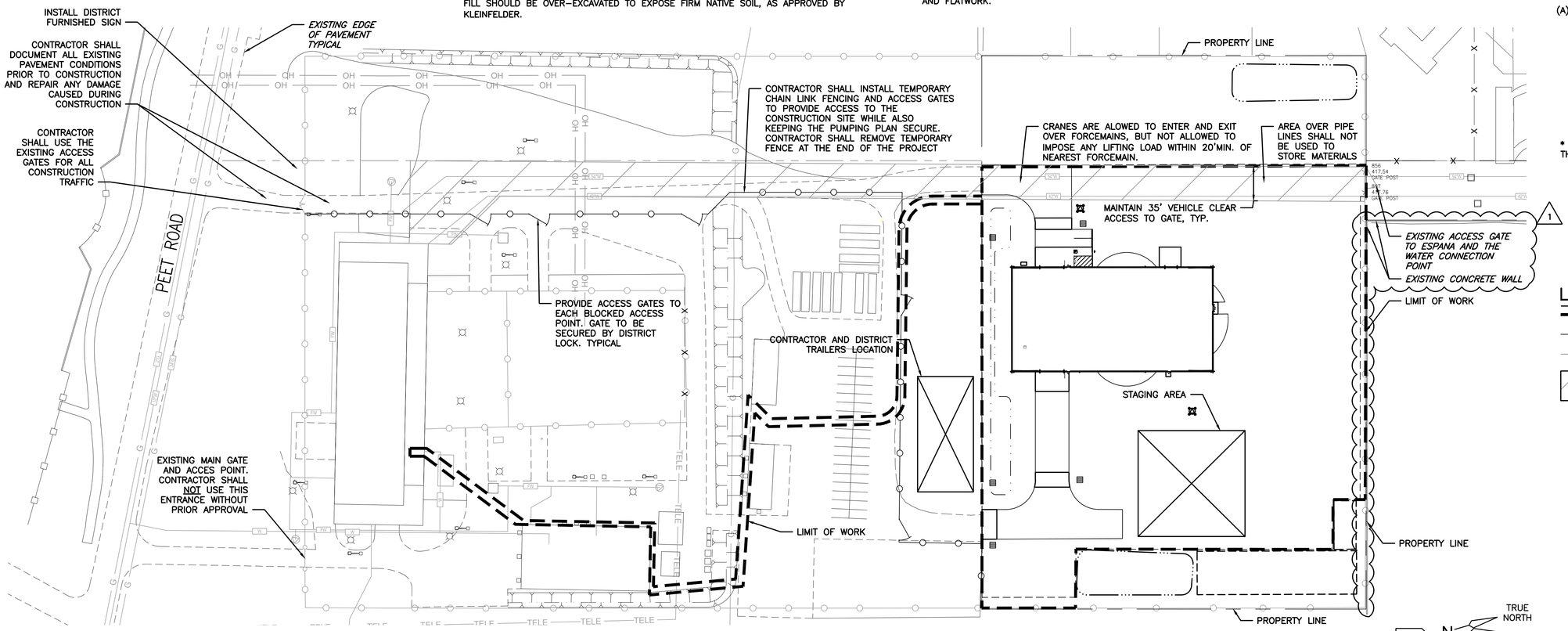


DETAIL IDENTIFICATION

(A) DETAIL REFERENCED ON DRAWING C-1:



* NOTE: IF SECTION OR DETAIL APPEARS ON THE SAME DRAWING AS THE CALL-OUT, THE DRAWIING NUMBER IS REPLACED WITH A DASH.



LEGEND

- LIMIT OF WORK
- TEMPORARY CHAINLINK FENCE
- EXISTING CHAINLINK FENCE
- 35' VEHICLE CLEARANCE ZONE

DETAIL C101 SITE LOGISTICS PLAN
SCALE: 1" = 60'-0"

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: PJS
DRAWN: MWK
CHECKED: PJS

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62498 Exp. 09/30/19 CIVIL STATE OF CALIFORNIA
9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE WAREHOUSE PROJECT
GENERAL NOTES, SITE LOGISTICS PLAN

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

PROJECT NUMBER: 91234011
SHEET CODE: G-09
SHEET NUMBER: 9 OF 59

DOCUMENT NUMBER: CPP-G-9123-60235

SEE SHEET C-01 FOR SURVEY CONTROL POINTS

PEET ROAD

EXISTING 6' HIGH PERIMETER CHAINLINK FENCE

EXISTING RESIDENTIAL

18411 18421 18431 18441

PROPERTY LINE

S15°56'01"W 388.93'

PROPERTY LINE

NEW PERIMETER SCREEN TREES (RAISED MOVABLE PLANTERS)

EXISTING BURIED PIPE AREA

EXISTING PERIMETER SCREEN TREES TO REMAIN

NEW PERIMETER SCREEN TREES (RAISED MOVABLE PLANTERS)

PROPERTY LINE N1882887.321 E6230196.865

CRANES ARE ALOWED TO ENTER AND EXIT OVER FORCEMAINS, BUT NOT ALLOWED TO IMPOSE ANY LIFTING LOAD WITHIN 20'MIN. OF NEAREST FORCEMAIN.

AREA OVER PIPE LINES SHALL NOT BE USED TO STORE MATERIALS

54"W

42"W

VEHICLE ACCESS ROUTE

EXISTING EQUIPMENT AND STORAGE BINS

C103 CD-1

C104 CD-1

N1882600.321 E6230115.986

C101 CD-1

N1882513.057 E6230091.395

90.66'

MAINTAIN 35' VEHICLE CLEAR ACCESS TO GATE

EXISTING GATE

30'

65.12'

20.37'

C107 CD-1

R30'

36.95'

11.5'

0.5' FLUSH CURB

LANDSCAPE SHRUB & TREE PLANTING AREA

C208 CD-2

57.82'

18"BRR

22'

20'

C103 CD-1

C107 CD-1

NEW PERIMETER SCREEN TREES (PLANTED)

EXISTING PERIMETER SCREEN TREES TO REMAIN

39.32'

20'

C103 CD-1

N1882709.819 E6230254.380

LANDSCAPE SHRUB & TREE PLANTING AREA

N1882513.617 E6230198.517

18.5'

R152.3'

23.47'

5'

12'

.5'

87.5'

5' WIDE PERIMETER BARK MULCH

EXISTING OPEN FIELD

NEW WAREHOUSE SEE FOUNDATION PLAN S-01

C206 CD-2

RADIUS POINT

53'

12'

5'

C102 CD-1

32.79'

30'

RADIUS POINT

R191.5'

C207 CD-2

87.5'

N1882484.589 E6230300.465

5' 24' 5' 28.5'

R30'

23.47'

5'

35' MIN. CLEAR AREA

N1882680.792 E6230356.328

RIP RAP STORAGE AREA TO BE RECONFIGURED

20'

C103 CD-1

C102 CD-1

5'

±105'

OFFICE TRAILER LOCATION

LANDSCAPE SHRUB & TREE PLANTING AREA

C208 CD-2

34'

300.77'

20' MIN.

GRAVEL YARD

EXISTING TRAILERS

EXISTING GRAVEL AND ASPHALT PARKING AREA

54'

C103 CD-1

15'

R30'

C101 CD-1

5'

N1882554.257 E6230465.138

240'

N1882761.942 E6230513.976

10'

PROPOSED TOE OF SLOPE. TYP.

VEHICLE ACCESS ROUTE

30'

N1882546.219 E6230493.439

N1882498.026 E6230490.793

50'

EXISTING BURIED PIPE AREA

C104 CD-1

C103 CD-1

C107 CD-1

TYPICAL ALL PAVEMENT EDGES NOT ADJACENT TO CONCRETE OR EXISTING PAVEMENT

EXISTING CONTAINER AREA

N1882408.592 E6230457.427

70.6'

EXISTING STORAGE AREA

EXISTING FENCE

PROPERTY LINE

EXISTING FENCE

N15°56'01"E 388.93'

NEW PERIMETER SCREEN TREES (RAISED MOVABLE PLANTERS)

1 EXISTING CONCRETE WALL TO REMAIN

EXISTING PUMP STATION, ELECTRICAL, AND ASD GALLERY BUILDING

EXISTING SWITCH YARD

EXISTING SUBSTATION

EXISTING MAINTENANCE BUILDING

LEGEND

AC PAVEMENT
SEE DETAIL C101 ON SHEET CD-1 AND LEGEND ON C-01 FOR ADDITIONAL INFORMATION

CONCRETE
SEE DETAIL C102, C103 ON SHEET CD-1, S-01M AND LEGEND ON C-01 FOR ADDITIONAL INFORMATION

GRAVEL YARD/ PARKING
SEE LEGEND ON C-01

ROCK STABILIZATION
SEE LEGEND ON C-01

LANDSCAPE BIORETENTION
SEE L-02 FOR ADDITIONAL INFORMATION

RIP RAP
STORAGE AREA, STOCKPILE 10' MAX HEIGHT

0' 20' 40' 80'
SCALE: 1"=40'

TRUE NORTH
PROJECT NORTH

DOCUMENT NUMBER: CPP-G-9123-60236

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE SEPT. 2018
DESIGN PJS
DRAWN MWK
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ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62498 Exp. 09/30/19 CIVIL STATE OF CALIFORNIA
9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

SITE LAYOUT PLAN

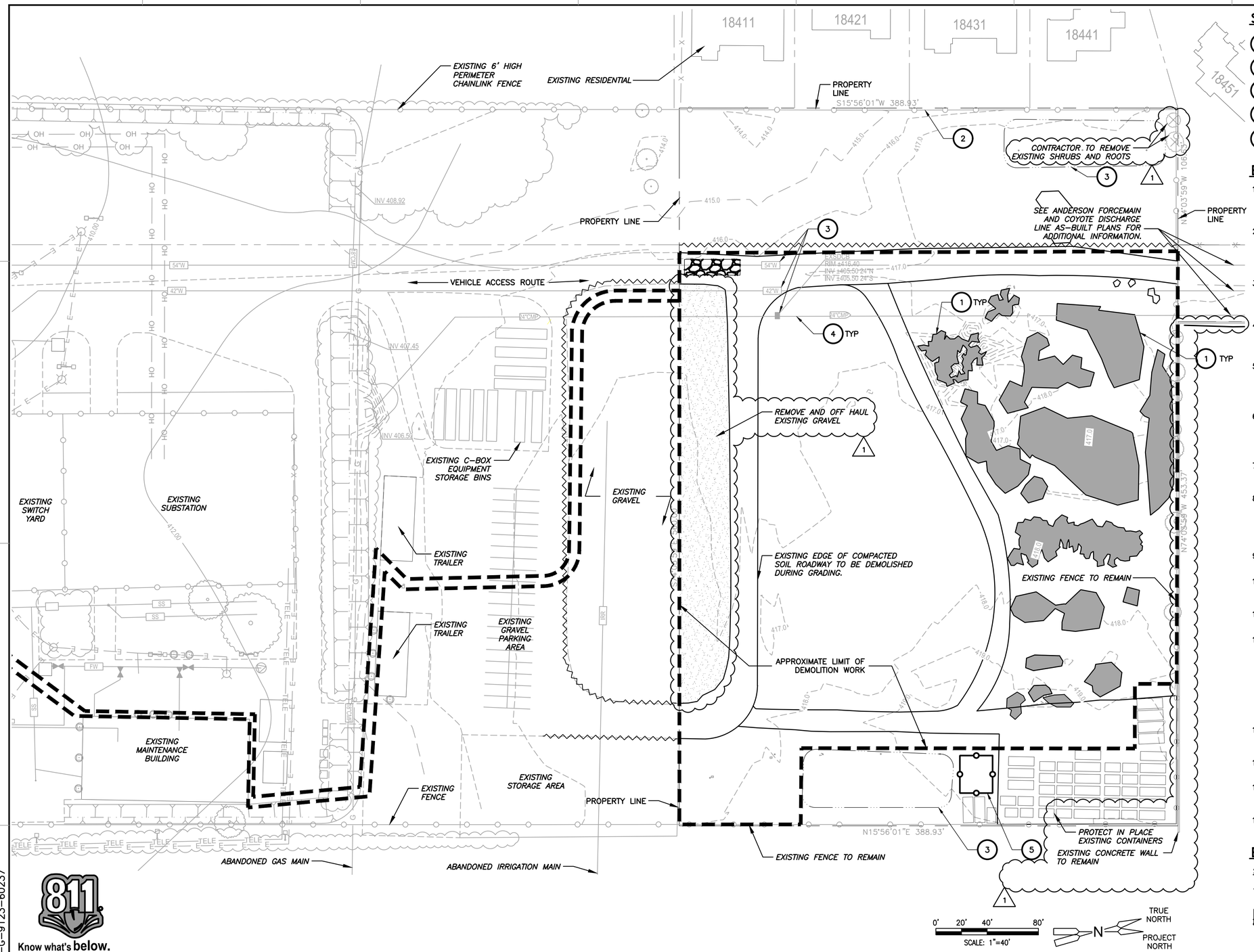
SCALE SHOWN

PROJECT NUMBER 91234011

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

SHEET CODE: G-10

SHEET NUMBER: 10 OF 59



SHEET NOTES:

1. EXISTING RIP–RAP TO BE STOCKPILED ONSITE BY CONTRACTOR PER G–10. CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND INCLUDE ALL LABOR AND EQUIPMENT IN THEIR BID TO RELOCATE THE STOCKPILE.
2. PROTECT IN PLACE
3. PROTECT IN PLACE EXISTING BURIED PIPE
4. CONTRACTOR SHALL CONDUCT AN UNDERGROUND SURVEY INSIDE PROPERTY PRIOR TO ANY SITE EXCAVATION, TO DETERMINE POTENTIAL UNDERGROUND CONFLICTS
5. INSTALL TEMPORARY CHAIN LINK FENCE AROUND THE EXISTING SHRUB FOR PROTECTION DURING CONSTRUCTION.

EROSION CONTROL GENERAL NOTES:

1. PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW ALL OFFSETS. THE SITE IS DYNAMIC AND CHANGES ON A DAILY BASIS, CHANGES SHOULD BE MADE ACCORDING TO EXISTING CONDITIONS. BECAUSE IT IS IMPOSSIBLE TO PREDICT ALL POSSIBLE SITUATIONS, CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO ENSURE QUALITY CONTROL.
2. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). IT IS THE CONTRACTORS SOLE RESPONSIBILITY FOR CONDUCTING HIS/HER OPERTATIONS IN ADHERANCE TO THE SWPPP. THE CONTRACTOR IS RESPONSIBLE FOR ANY FINES, DELAYS, AND/OR DAMAGES RESULTING FROM ANY STATE WATER QUALITY CONTROL BOARD SANCTIONS CAUSED BY THE OPERATION OF THE CONTRACTOR OF HIS/HER SUBCONTRACTORS.
3. THE FOLLOWING PLANS ARE ACCURATE FOR EROSION CONTROL PURPOSES ONLY. THE CONTRACTOR SHALL FOLLOW THESE PLANS UNLESS FIELD CONDITIONS DICTATE MODIFICATION. IF MODIFICATION IS NECESSARY, A SWPPP AMENDMENT MUST BE DONE. THIS MAY REQUIRE MODIFICATION TO THESE DRAWINGS AND ENGINEER CONCURRENCE.
4. INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN 1/2 OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE. SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM PAVEMENT OF ROAD.
5. UNFINISHED AND DISTURBED ARE TO BE PROTECTED WITH AN APPLICATION OF BLOWN STRAW AND ORGANIC BINDER.

ITEM	LB/ACRE
STRAW	4,000
ORGANIC BINDER	200

6. ALTERNATE INLET PROTECTION SHALL BE USED ON ROADS OPEN TO THE PUBLIC IF ANY HAZARDOUS MATERIALS OR WASTES WHICH HAVE BEEN TREATED, STORED, DISPOSED, SPILLED, OR LEAKED IN SIGNIFICANT QUANTITIES ONTO THE CONSTRUCTION SITE, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THEM FROM THE SITE AND DISPOSE OF PROPERLY.
7. CHLORINATED OR DECHLORINATED WATER SHALL NOT BE DISCHARGED INTO THE STORM DRAIN SYSTEM. THE CONTRACTOR MAY DISPOSE THIS WATER INTO THE SANITARY SEWER SYSTEM UPON APPROVAL BY THE GOVERNING AGENCY.
8. THE CONTRACTOR SHALL KEEP MAINTENANCE, INSPECTION, AND REPAIR PROCEDURES TO ENSURE THAT ALL GRADED SURFACES, WALLS, BERMS, DRAINAGE STRUCTURES, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER CONTROLS ARE MAINTAINED IN GOOD AND EFFECTIVE CONDITION AND ARE PROMPTLY REPAIRED OR RESTORED WHEN NECESSARY. ANY DEWATERING WATER SHALL NOT BE DISCHARGED DIRECTLY INTO THE STORM WATER SYSTEM, AND SHALL NOT BE DISCHARGED INTO THE SEWER SYSTEM.
9. ALL DEWATERING WATER MUST BE CHANNELED THROUGH AN APPROVED SEDIMENT BARRIER PRIOR TO THE WATER ENTERING THE STORM SYSTEM.
10. PAVEMENT CLEANING– FLUSHING OF STREETS/ PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED. PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEPT.
11. ALL STOCKPILES OF MATERIALS THAT ARE NOT GOING TO BE USED FOR 14 DAYS SHALL BE COVERED.
12. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES (BMPs) THROUGHOUT CONSTRUCTION. USE ALL BMPs THAT APPLY TO THE PROJECT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING BMPs:
    - A. DRAIN INLET PROTECTION – CALIFORNIA STORMWATER BMP HANDBOOK SECTION SE–10
    - B. SOLID WASTE MANAGEMENT – CALIFORNIA STORMWATER BMP HANDBOOK SECTION WM–5
    - C. MATERIAL STORAGE – CALIFORNIA STORMWATER BMP HANDBOOK SECTION WM–1
    - D. PAVING – CALIFORNIA STORMWATER BMP HANDBOOK SECTION NS–3
    - E. DUST CONTROL, SEDIMENT CONTROL, EROSION CONTROL AND CONCRETE WASHOUT AREAS – SHOWN ON THIS SHEET WITH DETAILS
13. CONTRACTOR SHALL INSTALL DRAIN INLET PROTECTION FOR ALL CATCH BASINS LOCATED IN THE VICINITY OF WORK. THIS INCLUDES ANY CATCH BASINS LOCATED IN THE PUBLIC RIGHT–OF–WAY, AS WELL AS ANY ON–SITE CATCH BASINS LOCATED IN THE PARKING LOT.
14. CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT DEPOSIT SEDIMENT ONTO THE PARKING LOT OR PUBLIC ROADWAY, SIDEWALK, AND GUTTERS.
15. CONTRACTOR SHALL USE STREET SWEEPING OR OTHER DRY–SWEEPING METHOD, AS NECESSARY, TO REMOVE CONSTRICTION–RELATED SEDIMENTS FROM PAVEMENT IN PROJECT AREA PARKING LOT AND PUBLIC SIDEWALKS, GUTTERS, AND ROADWAY.
16. CONTRACTOR SHALL SCHEDULE WORK FOR DRY–WEATHER DAYS WHEN NO RAIN IS IN THE IMMEDIATE FORECAST.

EROSION CONTROL LEGEND:

SYMBOL	DESCRIPTION
	FIBER ROLLED WATTLE, SEE DETAIL C110 IN SHEET CD–1
	STABILIZED CONSTRUCTION ENTRANCE, CONTRACTOR TO DETERMINE SIZE & LOCATION, SEE DETAIL C109 IN SHEET CD–1

811 Know what's **below.** **Call** before you dig.

DOCUMENT NUMBER: CPP–G–9123–60237

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
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209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: RJN
DRAWN: RJN
CHECKED: PJS

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62498 Exp. 09/30/19 CIVIL STATE OF CALIFORNIA

9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

SITE DEMOLITION & EROSION CONTROL PLAN

SCALE	PROJECT NUMBER
SHOWN	91234011
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: GD–1
	SHEET NUMBER: 11 OF 59

GENERAL IRRIGATION NOTES

1. FOR MAIN LINE PRESSURE TESTING, SEE SPECIFICATION 02830–3.06A
2. THE SPRINKLER SYSTEM IS DESIGNED TO OPERATE AT 30 PSI. THE CONTRACTOR IS TO PERFORM A STATIC AND DYNAMIC PRESSURE TEST AND PER SPECIFICATION 02830–3.06A, TEST AT 100PSI FOR ONE HOUR.
3. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. CONTRACTOR SHALL GUARANTEE 100% COVERAGE OF SYSTEM.
4. NEW CONTROLLER TO BE INSTALLED PER PLAN.
5. EACH VALVE IS PART OF THE EXISTING SYSTEM AND TO BE PROTECTED AND USED FOR THE PROPOSED IRRIGATION. MODIFICATIONS AND RELOCATION PER PLAN.
6. SPLICING OF 24 VOLT WIRES IS NOT PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" LONG, 6" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRE TOGETHER EVERY TEN FEET. TAPING WIRES IS NOT REQUIRED INSIDE SLEEVES. RUN WIRE FROM EACH REMOTE CONTROL VALVE TO THE CONTROLLER. ALL CONTROLLER WIRES TO BE INDEXED AT VALVES AND CONTROLLER.
7. PLASTIC VALVE COVERS TO BE GREEN IN COLOR. LIDS TO BE T–STYLE NON–HINGED COVERS MARKED IRRIGATION. BOX BODY SHALL HAVE KNOCK–OUTS WITH BOLT–DOWN LIDS.
8. INSTALL NEW REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, LAWN, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE 12" APART. SHORT SIDE OF RECTANGULAR VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC.
9. THIS PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM AND PLANTING AND ARCHITECTURAL FEATURES. CONTRACTOR IS RESPONSIBLE FOR HEAD SPRAY AWAY FROM BUILDING.
10. THE CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO MINIMIZE OVERSPRAY ON TO WALKS, WALLS, FENCES, DRIVES, AND BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT EXISTING CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
11. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED ON THE DRAWINGS.
12. SEE SPECIFICATIONS FOR COMMON TRENCHING REQUIREMENTS.
13. ALL PVC SLEEVES UNDER PAVEMENT AND ROADWAYS TO BE SCH. 40. SLEEVES TO BE TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE THAT WILL PASS THROUGH SLEEVE.
14. INSTALL CHECK VALVES OR IN–HEAD CHECK VALVES TO ELIMINATE LOW HEAD DRAINAGE WHERE NECESSARY.
15. SUBSTITUTION FOR IRRIGATION EQUIPMENT SPECIFIED ON THE PLANS MAY BE DONE ONLY WITH THE APPROVAL OF THE ENGINEER.
16. 4" PVC SLEEVES ARE REQUIRED EVERY 20' UNDER ALL PATHWAYS AND WALKWAYS.
17. PROVIDE A MINIMUM 24" COVER OVER ALL MAIN LINE PIPING AND 18" OVER ALL LATERAL LINES.
18. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SYSTEM AS DESIGNED WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT WERE NOT IDENTIFIED IN THE DRAWINGS. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. OTHERWISE, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
19. ALL WIRE CONNECTIONS TO BE MADE IN VALVE BOX WITH WATER TIGHT CONNECTORS PER THE MANUFACTURERS DIRECTIONS. WIRE SPLICES SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER. WIRE SPLICE LOCATIONS MUST BE INDICATED ON "AS–BUILTS" PER THE SPECIFICATIONS.
20. ALL PIPE 2 1/2" AND SMALLER TO BE SOLVENT WELD AND ALL PIPE 3" AND OVER TO BE RING–TITE.
21. SEE IRRIGATION DETAILS FOR ADDITIONAL INFORMATION.
22. ALL IRRIGATION HEADS TO BE PLACED 12" AWAY FROM BUILDING AND WINDOWS. CONTRACTOR RESPONSIBLE FOR RADIUS CONTROL OF HEADS TO INSURE THAT NO SPRAY REACHES WINDOWS AND WALLS. CONTRACTOR SHALL CONTACT ENGINEER IF DISCREPANCIES OCCUR.
23. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS INDICATED OR EQUAL PRODUCTS.

MAXIMUM APPLIED WATER ALLOWANCE(MAWA)

MAWA = (ETo)(0.62)[(ETAFxLA)+((1–ETAF)xSLA)]
= (49.4)(0.62)(2,470.50)

TOTAL MAXIMUM APPLIED WATER ALLOWANCE (MAWA): 75,666 GALLONS PER YEAR

ESTIMATED TOTAL WATER USE (ETWU)

EWU = (ETo) (PF) (HA) (0.62) / (IE)

WATER USE ZONES:

TREE PLANTING AREAS
(LOW WATER USE) (49.40) (.30) (950) (.62) / (.81) = 10,777 GALLONS PER YEAR

SHRUB PLANTING AREAS
(LOW WATER USE) (49.40) (.30) (1,773) (.62) / (.81) = 20,112 GALLONS PER YEAR

BIORETENTION
(LOW WATER USE) (49.40) (.30) (2,767) (.62) / (.75) = 33,899 GALLONS PER YEAR

NOTE: CALCULATIONS ONLY INCLUDE PROPOSED LANDSCAPE PLANTING AREAS OF TREES AND THE BIORETENTION AREA. EXCLUDES EXISTING UNDISTURBED LANDSCAPE AREAS OUTSIDE OF PROJECT SITE .

TOTAL ESTIMATED WATER USE (EWU):
64,788 GALLONS PER YEAR

SUMMARY:

(ETWU): 64,788 GALLONS PER YEAR IS LESS THAN (MAWA): 75,666 GALLONS PER YEAR

CALCULATIONS BASED ON CALIFORNIA DEPARTMENT OF WATER RESOURCES TITLE 23, APPENDIX A REFERENCE EVAPOTRANSPIRATION TABLE, DEPARTMENT FO WATER RESOURCES AND WUCOLS III (WATER USE CLASSIFICATIONS OF LANDSCAPE SPECIES) GUIDE.

ETo = REFERENCE EVAPOTRANSPIRATION (INCHES/YEAR)
ETAF = .45 FOR NON–RESIDENTIAL, .55 FOR RESIDENTIAL AREAS (ET ADJUSTMENT FACTOR)
LA = LANDSCAPE AREA (SQUARE FEET)
0.62 = CONVERSION FACTOR (TO GALLONS PER SQUARE FOOT)
PF = PLANT FACTOR (0–0.1 VERY LOW, 0.2–0.3 LOW, 0.4–0.6 MEDIUM, 0.7–1.0 HIGH PLANT WATER USAGE, 1.0 SLA
SLA = SPECIAL LANDSCAPE AREA (SQUARE FEET)
HA = HYDROZONE AREA (SQUARE FEET)
IE = IRRIGATION EFFICIENCY (0.75 FOR SPRAY HEADS AND 0.81 FOR DRIP/BUBBLERS)

CITY OF MORGAN HILL
49.4
TREE AREA BASED ON 25 SQUARE FEET PER TREE.

WATER EFFICIENCY NOTE

THE IRRIGATION SYSTEM SHALL MEET THE CITY AND STATE 'MODEL WATER EFFICIENT LANDSCAPE ORDINANCE' (AB 1881)
WATER PRESERVATION REQUIREMENTS BASED ON THE USE OF DRIP AND WATER EFFICIENT IRRIGATION, LOW AND MODERATE WATER–USE PLANT SPECIES AND 'SMART' CONTROLLERS INSTALLED.
THE 'SMART' IRRIGATION CONTROLLERS CAPABILITIES ARE:
– WEATHER–BASED CONTROL
– RAIN SENSOR/MONITORING SHUTOFF
– PLANT ZONE ET CALCULATIONS AUTOMATIC SCHEDULING
– WATER BUDGETING CAPABILITIES

ABBREVIATIONS

@	AT	R/W	RIGHT–OF–WAY
AB	AGGREGATE BASE	RC	ROLL–CURB
AC	ASPHALT CONCRETE	RCP	REINFORCED CONCRETE PIPE
BO	BLOWOFF		
C&G	CURB AND GUTTER	RET	RETURN
C,G&SW	CURB, GUTTER, AND SIDEWALK	RP	RADIUS POINT
		RT	RIGHT
CL	CENTERLINE	SD	STORM DRAIN
CB	CATCH BASIN	SS	SANITARY SEWER
DIA	DIAMETER	SCVWD	SANTA CLARA VALLEY WATER DISTRICT
DWG	DRAWING		
EL	ELEVATION	SL	STREET LIGHT
EX.	EXISTING	SW	SIDEWALK
FL	FLOWLINE	SDMH	STORM DRAIN MAINTENANCE HOLE
FH	FIRE HYDRANT		
G	GROUND	SHT	SHEET
GB	GRADE BREAK	STA	STATION
HP	HIGH POINT	STD	STANDARD
ID	INSIDE DIAMETER	TC	TOP OF CURB
IN.	INCH	TOW	TOP OF WALL
LF	LINEAL FEET	THRU	THROUGH
MAX	MAXIMUM		TRAFFIC INDEX
MH	MAINTENANCE HOLE	TYP	TYPICAL
MIN	MINIMUM	UV	UNDERGROUND VAULT
NO.	NUMBER	VCP	VITRIFIED CLAY PIPE
NTS	NOT TO SCALE	VERT	VERTICAL
P	PAVEMENT		WATER
PUE	PUBLIC UTILITY EASEMENT	WP	WEAKENED PLANE
PVC	POLYVINYL CHLORIDE	(W)	WEST
PL	PROPERTY LINE	(E)	EAST
R	RADIAL OR RADIUS	(S)	SOUTH
		(N)	NORTH
		±	PLUS OR MINUS

GENERAL PLANTING NOTES

1. EXISTING TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. CARE SHOULD BE TAKEN WHEN GRADING OCCURS WITHIN THE DRIPLINE OF THE TREE. FILLS INSIDE THE TREE ROOT ZONE SHOULD NOT EXCEED 4".
2. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES OR QUESTIONS OF GRADING OR TREE PROTECTION OCCURS.
3. ALL WORK WITHIN THE EXISTING TREE ROOT ZONES SHALL BE DONE USING ALL POSSIBLE CARE TO AVOID INJURY TO ROOTS. NO ROOTS LARGER THAN 3" SHALL BE CUT WITHOUT APPROVAL.
4. CONTACT ENGINEER IF PLANT MATERIAL PLACEMENT IS IN CONFLICT WITH EXISTING ROOTS.
5. ROOT BARRIER TO BE INSTALLED WHEN TREE IS WITHIN 5' OF SIDEWALKS, ROADWAYS, BUILDINGS OR CURBS.

~~6. SEE DEMOLITION DRAWINGS FOR TREES TO BE REMOVED.~~ 1

PIPE SIZING SCHEDULE

~~(SCH 40 PVC)~~ 1

FOR LATERAL LINES IN DRIP AREAS BEYOND THOSE SHOWN ON PLAN, CONTRACTOR SHALL FIELD SIZE BASED ON THE FOLLOWING TABLE:

PIPE SIZE	MAXIMUM GALLONS PER MINUTE (GPM)
3/4"	8 GPM
1"	12 GPM
1–1/4"	22 GPM
1–1/2"	30 GPM
2"	50 GPM
2–1/2"	80 GPM

HYDROZONE INFORMATIONAL TABLE

HYDROZONE DATA SUMMARY

Zone	Description	Ks	Kd	Kmc	KL	Irr Type	IE	PR	Soil Type	BIR	AW	RZ	PAW	MAD	AD
1	TREE-BUBBLER	0.2	1.3	1.3	0.34	BUBBLER	0.81	1.00	CLAY LOAM	0.2	0.18	36	6.48	50%	3.24
2	TREE-BUBBLER	0.2	1.3	1.3	0.34	BUBBLER	0.81	1.00	CLAY LOAM	0.2	0.18	36	6.48	50%	3.24
3	TREE-BUBBLER	0.2	1.3	1.3	0.34	BUBBLER	0.81	1.00	CLAY LOAM	0.2	0.18	36	6.48	50%	3.24
4	BIO-SPRAY ROTATOR	0.5	1.3	1.3	0.85	MultiStrm	0.75	0.61	CLAY LOAM	0.2	0.18	18	3.24	50%	1.62
5	BIO-SPRAY ROTATOR	0.5	1.3	1.3	0.85	MultiStrm	0.75	0.61	CLAY LOAM	0.2	0.18	18	3.24	50%	1.62
6	SHRUB-DRIP	0.2	1.3	1.3	0.34	Drip	0.81	0.50	Clay Loam	0.2	0.18	36	6.48	50%	3.24
7	SHRUB-DRIP	0.2	1.3	1.3	0.34	Drip	0.81	0.50	Clay Loam	0.2	0.18	36	6.48	50%	3.24
8	SHRUB-DRIP	0.2	1.3	1.3	0.34	Drip	0.81	0.50	Clay Loam	0.2	0.18	36	6.48	50%	3.24

MODEL ORDINANCE AREA CALCULATIONS

HA (SQFT)	% OF LANDSCAPE AREA
500	9.11%
225	4.10%
225	4.10%
1963	35.76%
804	14.64%
605	11.02%
564	10.27%
604	11.00%
TOTAL: 5490	100%

LEGEND: Ks=SPECIES COEFFICIENT, Kd=DENSITY COEFFICIENT, Kmc-MICRO-CLIMATE COEFFICIENT, KL=LANDSCAPE COEFFICIENT, IE= IRRIGATION EFFICIENCY, PR = PRECIPITATION RATE, BIR = BASIC INTAKE RATE, AW =AVAILABLE WATER, RZ = ROOT ZONE, PAW = PLANT AVAILABLE WATER, MAD = MANAGED ALLOWABLE DEPLETION (%), AD = ALLOWABLE DEPLETION (INCHES).

REFERENCE SCHEDULE

ZONE	DESCRIPTION	TEMPORARY?		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	TREE-BUBBLER	N	IRR. DAYS/WK	0	0	1	3	3	4	4	4	4	1	1	0
			CYCLES/DAY	0	0	1	1	2	1	1	1	1	2	1	0
	MAX. MINS./CYCLE 12		MIN./CYCLE	0	0	11	9	7	11	12	10	8	9	1	0
2	TREE-BUBBLER	N	IRR. DAYS/WK	0	0	1	3	3	4	4	4	4	1	1	0
			CYCLES/DAY	0	0	1	1	2	1	1	1	1	2	1	0
	MAX. MINS./CYCLE 12		MIN./CYCLE	0	0	11	9	7	11	12	10	8	9	1	0
3	TREE-BUBBLER	N	IRR. DAYS/WK	0	0	1	3	3	4	4	4	4	1	1	0
			CYCLES/DAY	0	0	1	1	2	1	1	1	1	2	1	0
	MAX. MINS./CYCLE 12		MIN./CYCLE	0	0	11	9	7	11	12	10	8	9	1	0
4	BIO-SPRAY ROTATOR	N	IRR. DAYS/WK	0	0	1	3	3	4	4	4	4	1	1	0
			CYCLES/DAY	0	0	3	2	3	3	3	3	2	4	1	0
	MAX. MINS./CYCLE 20		MIN./CYCLE	0	0	16	18	18	17	17	15	17	19	4	0
5	BIO-SPRAY ROTATOR	N	IRR. DAYS/WK	0	0	1	3	3	4	4	4	4	1	1	0
			CYCLES/DAY	0	0	3	2	3	3	3	3	2	4	1	0
	MAX. MINS./CYCLE 20		MIN./CYCLE	0	0	16	18	18	17	17	15	17	19	4	0
6	SHRUB-DRIP	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	1	1	2	1	1	1	1	2	1	0
	Max. Minutes / Cycle 24		Min. / Cycle	0	0	21	17	13	22	23	20	15	17	2	0
7	SHRUB-DRIP	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	1	1	2	1	1	1	1	2	1	0
	Max. Minutes / Cycle 24		Min. / Cycle	0	0	21	17	13	22	23	20	15	17	2	0
8	SHRUB-DRIP	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	1	1	2	1	1	1	1	2	1	0
	Max. Minutes / Cycle 24		Min. / Cycle	0	0	21	17	13	22	23	20	15	17	2	0

TOTAL IRRIGATION SYSTEM RUNTIME(DURING ES Percentage adjustment: 150%

MAXIMUM SYSTEM RUNTIME PER IRRIGATION DAY (SINGLE-STATION OPERATION)	Hrs	0.0	0.4	3.2	2.5	3.8	3.4	3.5	3.0	2.3	5.2	0.3	0.0

TOTAL IRRIGATION SYSTEM RUNTIME(NORMAL OPERATION)

MAXIMUM SYSTEM RUNTIME PER IRRIGATION DAY (SINGLE-STATION OPERATION)	Hrs	0.0	0.3	2.2	1.7	2.5	2.3	2.3	2.0	1.5	3.4	0.2	0.0

NOTE: HOURS SHOWM ARE CUMULATIVE AND RUN SCHEDULE MAY BE REDUCED IF CONTROLLER IS CAPABLE OF MULTI-VALVE OPERATION.

PLANTING LEGEND

SCREEN TREE (RAISED PLANTER)
ARB HY2 24" BOX TREE.
INSTALLED AT BURIED PIPE LOCATIONS IN MOVABLE TREE PLANTERS FOR SCREENING PURPOSES.
ARBUTUS X 'MARINA' / ARBUTUS STANDARD (25)

SCREEN TREE (IN–GROUND)
ARB HYB 24" BOX TREE.
INSTALLED AT FENCELINE IN–GROUND FOR SCREENING PURPOSES.
ARBUTUS X 'MARINA' / ARBUTUS STANDARD (5)

BUILDING FOUNDATION TREE (IN–GROUND)
AGO FLE 24" BOX TREE.
INSTALLED AT BUILDING IN–GROUND FOR SCREENING PURPOSES.
AGONIS FLEXUOSA / PEPPERMINT TREE (9)

EXISTING TREE

BIORETENTION SHRUBS
JUN PAT 1 GALLON SHRUB.
INSTALLED IN BIORETENTION AREA.
JUNCUS PATENS / CALIFORNIA GRAY RUSH (237)

SHRUBS (BUILDING FOUNDATION)
CEA YAN 5 GALLON SHRUB.
INSTALLED AT BUILDING PLANTERS FOR SCREENING.
CEANOTHUS G.H. 'YANKEE POINT' / CALIFORNIA LILAC (18)

LOM BRE 5 GALLON SHRUB.
INSTALLED AT BUILDING PLANTERS FOR SCREENING.
LOMANDRA LONGIFOLIA 'BREEZE' / DWARF MAT RUSH (23)

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
M L O	HUNTER MP1000 PROS–12–PRS40–CV OR EQUAL. SHRUB ROTATOR, 12" (30.48 CM) POP–UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC ON PRS40 BODY.
X O R	HUNTER MP2000 PROS–12–PRS40–CV OR EQUAL SHRUB ROTATOR, 12" (30.48 CM) POP–UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. K=BLACK ADJ ARC 90–210, G=GREEN ADJ ARC 210–270, R=RED 360 ARC ON PRS40 BODY.
T	HUNTER MP CORNER PROS–12–PRS40–CV OR EQUAL. SHRUB ROTATOR, 12" (30.48 CM) POP–UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45–105 ON PRS40 BODY.
	RAIN BIRD 1800–1300AF FLOOD OR EQUAL. ADJUSTABLE FLOW (1.0–2.3GPM), FULL CIRCLE BUBBLER, 1/2" FIPT INLET.
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD PCT PRESSURE COMPENSATING THREADED LOW–FLOW BUBBLERS. OFFERED IN 5 GPH, 7 GPH, AND 10 GPH MODELS, WITH 1/2" FPT THREADED INLET. LIGHT BROWN = 5 GPH, VIOLET = 7 GPH, AND GREEN = 10 GPH. EMITTER NOTES: 05 GPH EMITTERS (1 ASSIGNED TO EACH 1 GAL PLANT) 07 GPH EMITTERS (3 ASSIGNED TO EACH 24"BOX PLANT) 05 GPH EMITTERS (2 ASSIGNED TO EACH 5 GAL PLANT)
	RAIN BIRD XCZ–100–PRB–COM MEDIUM PLUS FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK–CHECK BASKET FILTER. 3GPM TO 20GPM.
F	RAIN BIRD MDCFCAP DRIPLINE FLUSH VALVE CAP IN COMPRESSION FITTING COUPLER.
A	RAIN BIRD ARV050 1/2" AIR RELIEF VALVE, MADE OF QUALITY RUST–PROOF MATERIALS, WITH A 6.0" DRIP VALVE BOX (SEB 7XB EMITTER BOX). USE WITH INSTALLATION BELOW SOIL. THE VALVE WILL ALLOW AIR TO ESCAPE THE PIPELINE, THUS PREVENTING WATER HAMMER OR BLOCKAGE.
I	RAIN BIRD OPERIND DRIP SYSTEM OPERATION INDICATOR, STEM RISES 6" FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16" OF 1/4" DISTRIBUTION TUBING WITH CONNECTION FITTING PRE–INSTALLED.
	RAIN BIRD PEB OR EQUAL. 1", 1–1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.
	RAIN BIRD 44–LRC OR EQUAL. 1" BRASS QUICK–COUPLING VALVE, WITH CORROSION–RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 2–PIECE BODY.
	NIBCO T–113 OR EQUAL. CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE – 1/4" – 3"
MV	RAIN BIRD PEB 1–1/2", 1", 1–1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATINGCAPABILITY, GLOBE CONFIGURATION.
C	RAIN BIRD ESP8LXME OR EQUAL. 8 STATION CAPABLE COMMERCIAL CONTROLLER. MOUNTED ON A PLASTIC WALL MOUNT. WITHOUT FLOW SENSOR.
X	RAIN BIRD ETC–LX OR EQUAL. UPGRADES ANY ESP–LX SERIES CONTROLLER TO AN ET/WEATHER–BASED IRRIGATION CONTROLLER.
	RAIN BIRD WR2–RFS OR EQUAL. WIRELESS RAIN/FREEZE SENSOR.
FS	RAIN BIRD FS–150–B OR EQUAL 1–1/2" FLOW SENSOR FOR USE WITH RAIN BIRD MAXICOM, SITECONTROL, AND ESP–LXD CENTRAL CONTROL SYSTEMS. BRASS MODEL. SUGGESTED OPERATING RANGE OF 2.0 GPM TO 82.6 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.
POC "1"	POINT OF CONNECTION 2" POINT OF CONNECTION ON NEW 2" MAINLINE. NEW WATER METER AND BACKFLOW PREVENTER ARE LOCATED OUTSIDE OF FENCE. SEE CIVIL PLANS.
	IRRIGATION LINE: PVC SCHEDULE 40 UP TO 2"
	~~IRRIGATION MAINLINE: PVC SCHEDULE 40 AND CLASS 315 PVC SCHEDULE 40 TO 1–1/2", PVC CLASS 315 SDR 13.5 FOR PIPES 2" AND LARGER.~~
	PIPE SLEEVE: PVC SCHEDULE 40 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. MIN. SIZE 2X DIAMETER OF PIPE BEING SLEEVED. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION. 1
	VALVE CALLOUT #" VALVE NUMBER (UNITLESS) # VALVE FLOW (GPM) #" VALVE SIZE (INCHES)

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE SEPT. 2018
DESIGN RJN
DRAWN RJN
CHECKED PJS

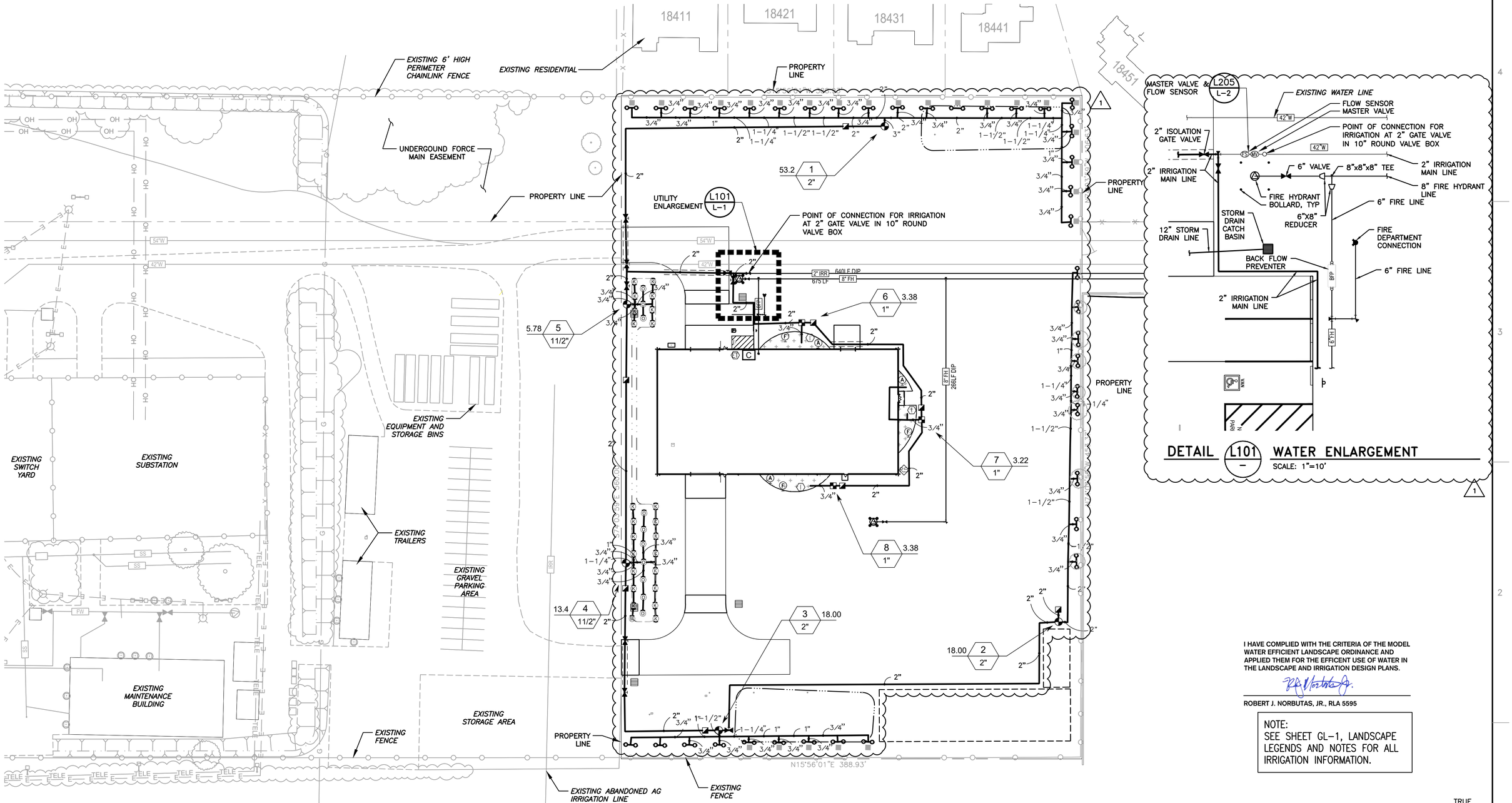
ENGINEERING CERTIFICATION
LICENSED LANDSCAPE ARCHITECT ROBERT J. NORBUTAS No.5595 Signature Exp. 11/30/18 STATE OF CALIFORNIA 9/25/2018
ENGINEER

Santa Clara Valley Water District
ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE WAREHOUSE PROJECT
LANDSCAPE LEGENDS AND NOTES

SCALE SHOWN
PROJECT NUMBER 91234011
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
SHEET CODE: GL-1
SHEET NUMBER: 12 OF 59

DOCUMENT NUMBER: CPP–G–9123–60238



I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLANS.

ROBERT J. NORBUTAS, JR., RLA 5595

NOTE:
SEE SHEET GL-1, LANDSCAPE LEGENDS AND NOTES FOR ALL IRRIGATION INFORMATION.

DOCUMENT NUMBER: CPP-G-9123-60239

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton, California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: RJN
DRAWN: RJN
CHECKED: PJS

ENGINEERING CERTIFICATION
LICENSED LANDSCAPE ARCHITECT ROBERT J. NORBUTAS, JR. No.5595 Signature Exp. 11/30/18 STATE OF CALIFORNIA 9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

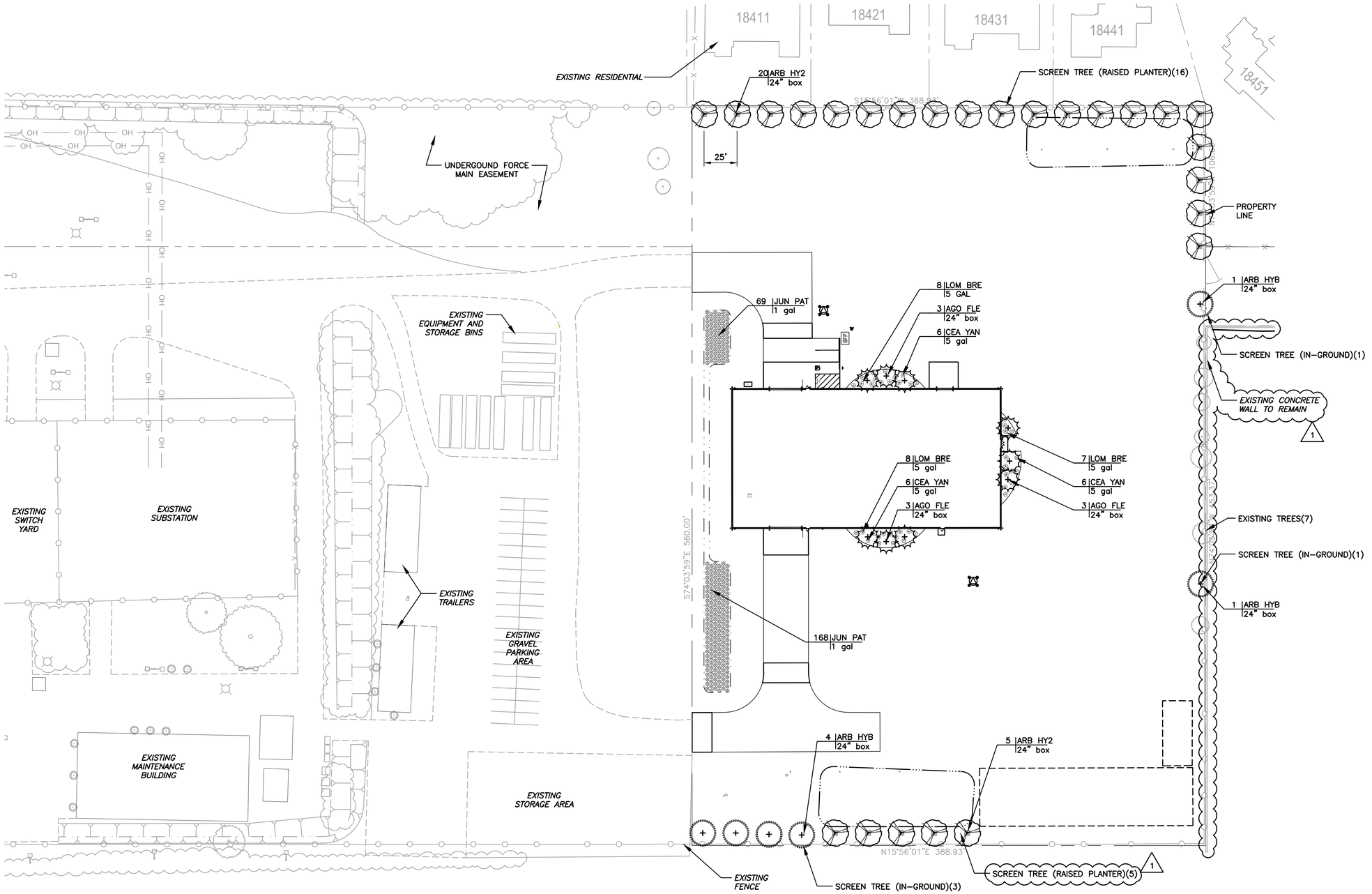
PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

IRRIGATION PLAN

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

PROJECT NUMBER: 91234011
SHEET CODE: L-01
SHEET NUMBER: 13 OF 59



NOTE:
SEE SHEET GL–1, LANDSCAPE LEGENDS AND NOTES FOR ALL PLANTING INFORMATION.

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton, California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: RJN
DRAWN: RJN
CHECKED: PJS

ENGINEERING CERTIFICATION

LICENSED LANDSCAPE ARCHITECT
ROBERT J. NORBUT, ASLA
No. 5595
Signature
Exp. 11/30/18
STATE OF CALIFORNIA
9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

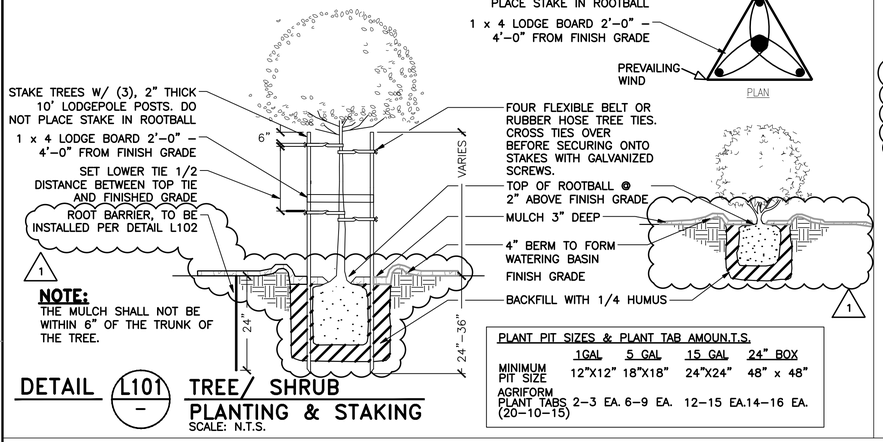
COYOTE WAREHOUSE PROJECT

PLANTING PLAN

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

PROJECT NUMBER: 91234011
SHEET CODE: L–02
SHEET NUMBER: 14 OF 59

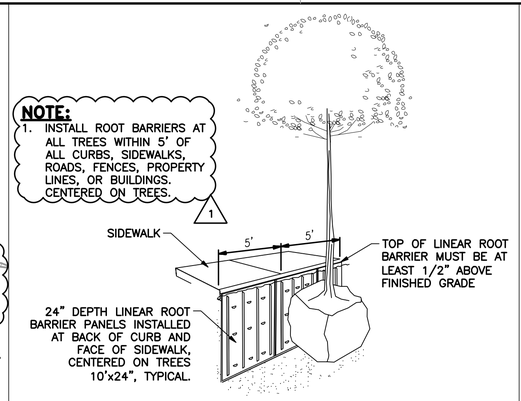
DOCUMENT NUMBER: CPP–G–9123–60240



NOTE:
THE MULCH SHALL NOT BE WITHIN 6" OF THE TRUNK OF THE TREE.

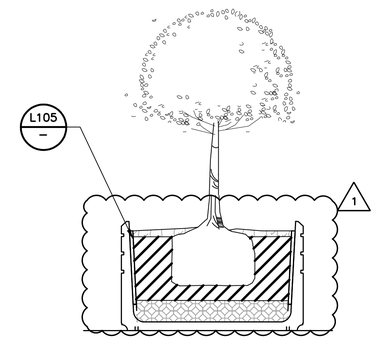
PLANT PIT SIZES & PLANT TAB AMOUN.T.S.				
	1GAL	5 GAL	15 GAL	24" BOX
MINIMUM PIT SIZE	12"X12"	18"X18"	24"X24"	48" x 48"
AGRIFORM PLANT TABS (20–10–15)	2–3 EA.	6–9 EA.	12–15 EA.	14–16 EA.

DETAIL L101 – TREE/ SHRUB PLANTING & STAKING
SCALE: N.T.S.

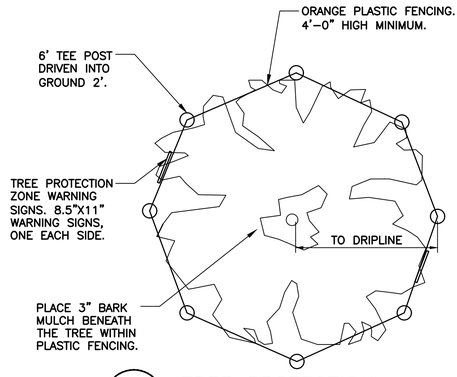


NOTE:
1. INSTALL ROOT BARRIERS AT ALL TREES WITHIN 5' OF ALL CURBS, SIDEWALKS, ROADS, FENCES, PROPERTY LINES, OR BUILDINGS. CENTERED ON TREES.

DETAIL L102 – LINEAR ROOT BARRIER
SCALE: N.T.S.



DETAIL L103 – TREE PLANTING RAISED PLANTER
SCALE: N.T.S.

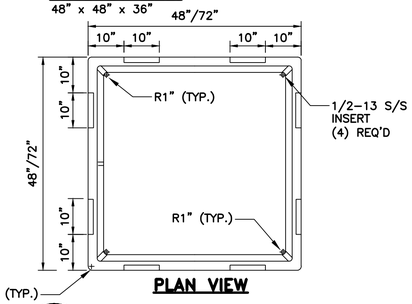


DETAIL L104 – TREE PROTECTION
SCALE: N.T.S.

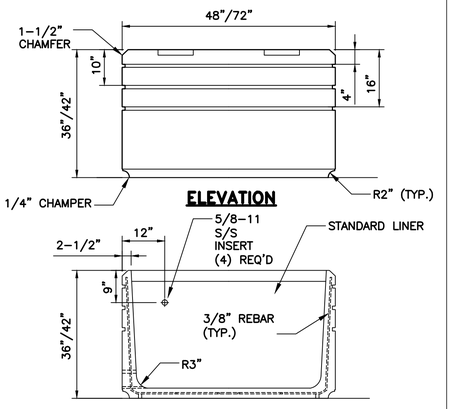
TREE PROTECTION NOTES
1. NO PERSON SHALL INJURE OR DESTROY ANY TREE BY ANY MEANS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   - CONSTRUCTING A CONCRETE, ASPHALT, BRICK OR GRAVEL SIDEWALK, OR OTHERWISE FILLING UP THE GROUND AREA AROUND ANY TREE SO AS TO SHUT OFF AIR, LIGHT OR WATER FROM ITS ROOTS.
   - PILING BUILDING MATERIAL, EQUIPMENT OR OTHER SUBSTANCE AROUND ANY TREE SO AS TO INJURE THE TREE.
   - POURING ANY DELETERIOUS MATTER ON OR AROUND ANY TREE OR ON THE SURROUNDING GROUND, LAWN OR SIDEWALK.
   - POSTING ANY SIGN, POSTER, NOTICE, OR SIMILAR DEVICE ON ANY TREE. TREE STAKE OR GUARD, OR BY FASTENING ANY GUY WIRE, CABLE, ROPE, NAILS, SCREWS, OR OTHER DEVICE TO ANY TREE, TREE STAKE OR GUARD FOR ANY PURPOSE OTHER THAN SUPPORTING THE TREE.
   - CAUSING ANY FIRE OR BURNING NEAR OR AROUND ANY TREE.
2. ALL WORK WITHIN THE EXISTING TREE CANOPY SHALL BE DONE USING ALL POSSIBLE CARE TO AVOID INJURY TO ROOTS. CAREFULL EXCAVATION USING HAND TOOLS IS REQUIRED TO ASCERTAIN ROOT LOCATIONS, DEPTH, AND SIZE.
3. ALL WORK AROUND EXISTING TREES IS TO BE DONE WITH HAND TOOLS ONLY. PROTECT ALL CUT ROOTS WITH WET BURLAP AND PREVENT DIRECT EXPOSURE TO SUNLIGHT. COVER ALL ROOTS WITHIN 24 HOURS OF CUTTING.
4. CLEARING OF EXISTING LANDSCAPE PLAN.T.S. AND WEEDS SHALL BE DONE BY HAND OR BY LIGHT TRACKED EQUIPMENT ASSISTING THE GROUND CREW. HEAVY EQUIPMENT SHALL NOT BE USED WITHIN THE TREE PROTECTION ZONE. ROOT PRUNING SHALL PRECLUDE USE OF HEAVY EQUIPMENT IN ADJACENT AREAS. USE OF TILLERS, HARROWING, ETC. IS NOT ALLOWED. EXISTING SURFACE SHALL REMAIN UNDISTURBED TO THE EXTENT POSSIBLE.
5. NO ROOTS LARGER THAN THREE INCHES (3") SHALL BE CUT WITHOUT THE PRIOR APPROVAL OF THE SITE SUPERINTENDENT OR THE LANDSCAPE ARCHITECT. ROOTS LARGER THAN THREE INCHES (3") SHOULD BE EXPOSED BY HAND AND TUNNELING BELOW THE ROOT. ALL DAMAGED ROOTS ONE INCH (1") OR LESS SHALL BE RE–CUT TO UNINJURED TISSUE WITH A SHARP PRUNING SAW.

PRODUCT NOTES:
CONCRETE PLANTER – WAUSAU TILE SITE FURNISHINGS #TF4206 OR EQUAL
COLOR B–1 WEATHERSTONE (GRAY)

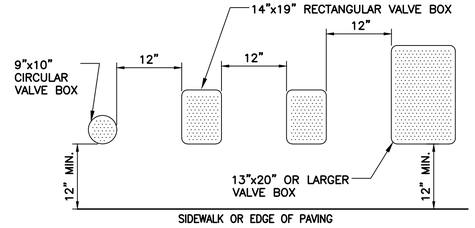
PRODUCT SIZE:
48" x 48" x 36"



PLAN VIEW
DETAIL L105 – TREE RAISED PLANTER
SCALE: N.T.S.

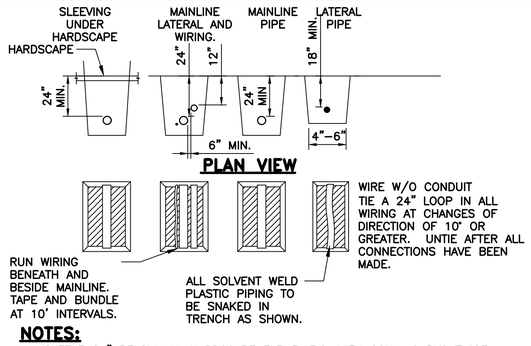


ELEVATION
SECTION



NOTES:
1. CENTER BOX OVER VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER/SHRUB AREA DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. VALVE BOXES SHALL HAVE BOLT DOWN LIDS WITH BOLTS INSTALLED.

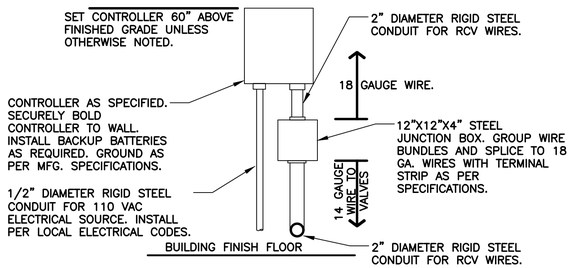
DETAIL L106 – VALVE BOX
SCALE: N.T.S.



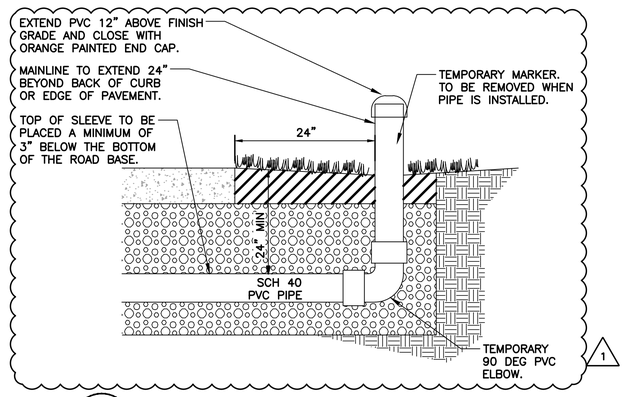
PLAN VIEW

NOTES:
1. SLEEVE 24" BELOW ALL HARDSCAPE ELEMEN.T.S. WITH SCH. 40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.
3. SNAKE ALL PLASTIC PIPING IN TRENCHES FROM SIDE TO SIDE AS SHOWN, AT A 50' INTERVAL.

DETAIL L107 – PIPE AND WIRE TRENCHING
SCALE: N.T.S.



DETAIL L108 – WALL MOUNTED CONTROLLER
SCALE: N.T.S.



DETAIL L109 – PIPE SLEEVE WITH 90 ELBOW
SCALE: N.T.S.

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
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www.siegfriedeng.com

DATE SEPT. 2018
DESIGN RJN
DRAWN RJN
CHECKED PJS

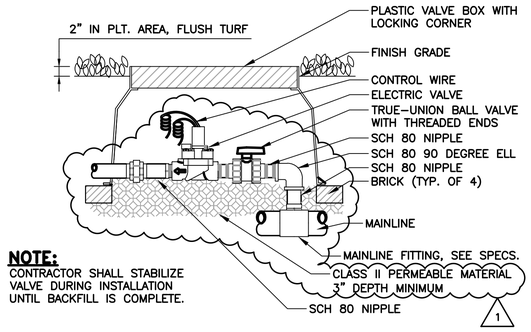
ENGINEERING CERTIFICATION
LICENSED LANDSCAPE ARCHITECT ROBERT J. NORBUT AS 5595 No.5595 Signature Exp. 11/30/18 STATE OF CALIFORNIA 9/25/2018
ENGINEER

Santa Clara Valley Water District
ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE WAREHOUSE PROJECT
TYPICAL LANDSCAPE DETAILS I

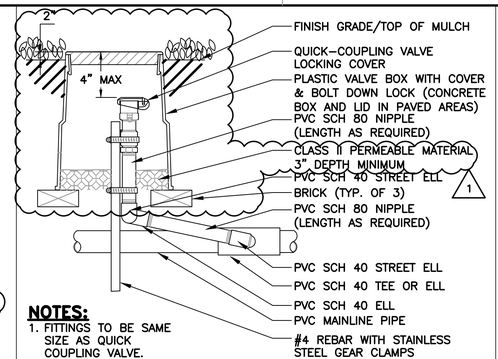
SCALE: SHOWN
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
PROJECT NUMBER: 91234011
SHEET CODE: LD–1
SHEET NUMBER: 15 OF 59

DOCUMENT NUMBER: CPP–G–9123–60241



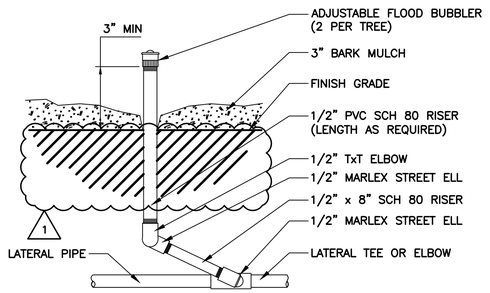
NOTE:
CONTRACTOR SHALL STABILIZE VALVE DURING INSTALLATION UNTIL BACKFILL IS COMPLETE.

DETAIL L201 – REMOTE CONTROL VALVE WITH BALL VALVE
SCALE: N.T.S.

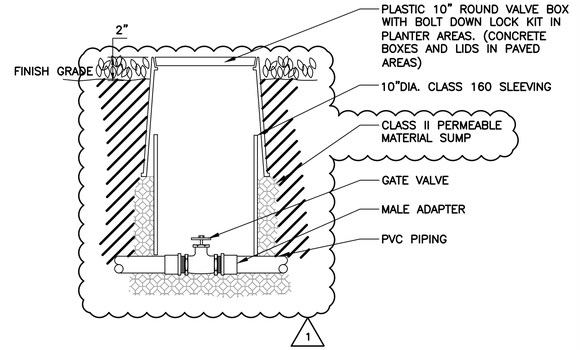


NOTES:
1. FITTINGS TO BE SAME SIZE AS QUICK COUPLING VALVE.

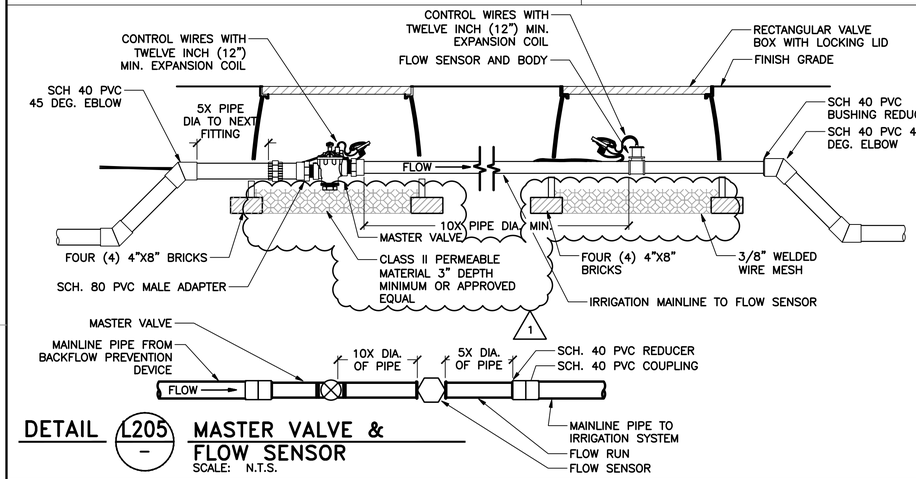
DETAIL L202 – QUICK COUPLER
SCALE: N.T.S.



DETAIL L203 – TREE FLOOD BUBBLER
SCALE: N.T.S.

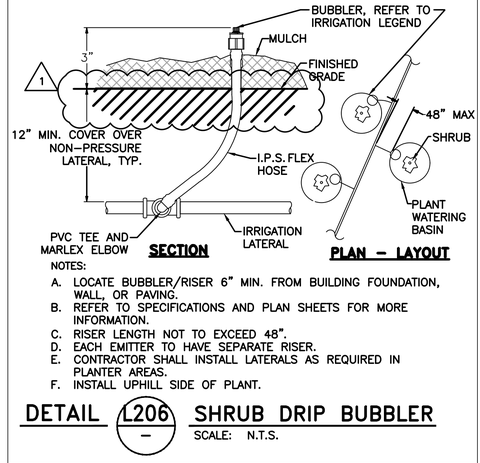


DETAIL L204 – GATE VALVE
SCALE: N.T.S.



DETAIL L205 – MASTER VALVE & FLOW SENSOR
SCALE: N.T.S.

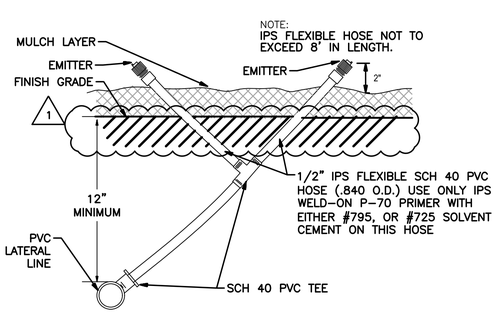
NOTES:
1. MASTER VALVE AND FLOW SENSOR SHALL BE OF MAKE AND MODEL NUMBER AS PRESCRIBED PER THE CONTROLLER MANUFACTURER'S SPECIFICATIONS.
2. INSTALL MASTER VALVE AND FLOW SENSOR PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
3. FLOW SENSOR WIRE SHALL BE PER THE CONTROLLER MANUFACTURER'S SPECIFICATIONS.
4. MASTER VALVE WIRE SHALL BE 14 AWG OR LARGER. COLOR: BLACK.
5. ALL WIRE RUNS SHALL BE CONTINUOUS WITHOUT ANY SPLICES. WIRE CONNECTIONS SHALL BE MADE USING DBR-Y/6 CONNECTORS OR APPROVED EQUAL.
6. CONTRACTOR SHALL STABILIZE VALVES DURING INSTALLATION UNTIL BACKFILL IS COMPLETE.
7. INLET PIPE LENGTH OF SENSOR MUST BE 10X PIPE DIAMETER. STRAIGHT,
8. FLOW SENSOR SHALL BE OF MAKE AND MODEL AS RECOMMENDED BY THE CONTROLLER MANUFACTURER.
9. FLOW SENSOR WIRE SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
10. MASTER VALVE WIRE SHALL BE DIRECT BURIAL 14 AWG WIRE (OR LARGER). COLOR: BLACK.
11. ALL WIRE RUNS SHALL BE CONTINUOUS WITHOUT ANY SPLICES.
12. SEE MASTER VALVE DETAIL AND FLOW SENSOR DETAIL FOR FURTHER INFORMATION.
13. FLOW RUN PIPE SHALL BE REDUCED DOWN ONE (1) PIPE SIZE AS INDICATED.
14. CLEAN RUN OF PIPE, NO FITTINGS OR TURNS. OUTLET PIPE LENGTH OF SENSOR MUST BE MINIMUM 5X PIPE DIAMETER OF STRAIGHT CLEAN RUN OF PIPE, NO FITTINGS OR TURNS.
15. WRAP VALVE BOX WITH MIN. 3 MIL. THICK PLASTIC AND SECURE IT TO THE VALVE BOX USING DUCT TAPE OR ELECTRICAL TAPE.



SECTION **PLAN – LAYOUT**

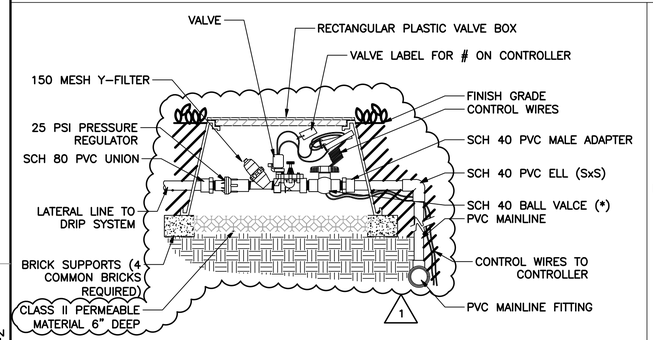
NOTES:
A. LOCATE BUBBLER/RISER 6" MIN. FROM BUILDING FOUNDATION, WALL, OR PAVING.
B. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.
C. RISER LENGTH NOT TO EXCEED 48".
D. EACH EMITTER TO HAVE SEPARATE RISER.
E. CONTRACTOR SHALL INSTALL LATERALS AS REQUIRED IN PLANTER AREAS.
F. INSTALL UPHILL SIDE OF PLANT.

DETAIL L206 – SHRUB DRIP BUBBLER
SCALE: N.T.S.



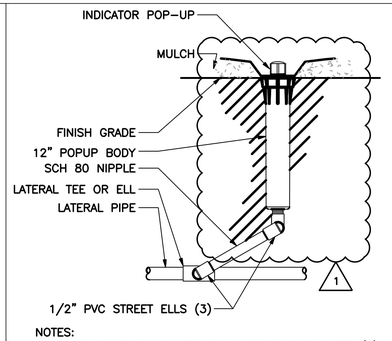
NOTES:
1. USE MULTI EMITTER SET-UP FOR CLOSELY SPACED SHRUB AND GROUND COVER AREAS. INSTALL UP TO THREE (3) EMITTERS PER EACH LATERAL TEE.

DETAIL L207 – SHRUB DRIP BUBBLER MULTIPLE EMITTERS
SCALE: N.T.S.



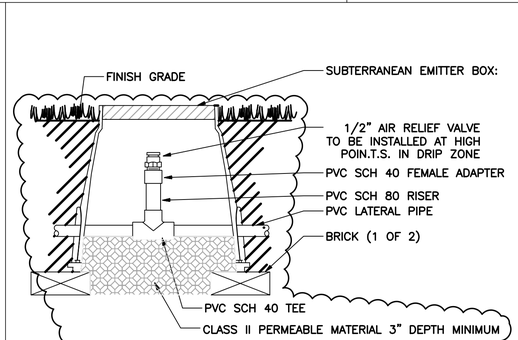
NOTES:
1. MIN. AND MAX. FLOW RATE – PER MANUFACTURER.
2. (*) PARTS IN DRIP ZONE KIT.

DETAIL L208 – REMOTE CONTROL VALVE-DRIP
SCALE: N.T.S.

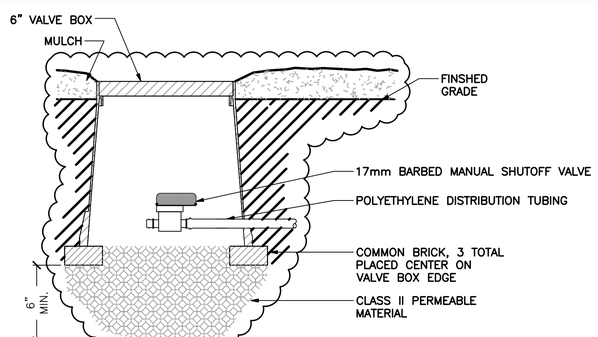


NOTES:
1. CONTRACTOR TO LOCATE THE OPERATION INDICATOR(S) IN AN INCONSPICUOUS LOCATION AS TO AVOID BEING VANDALIZED.
2. ONE PER DRIP VALVE STATION.
3. LOCATED WITHIN 8 FEET OF VALVE BOX.

DETAIL L209 – DRIP SYSTEM OPERATION INDICATOR
SCALE: N.T.S.



DETAIL L210 – AIR RELIEF VALVE
SCALE: N.T.S.



DETAIL L211 – MANUAL FLUSH VALVE
SCALE: N.T.S.

DOCUMENT NUMBER: CPP-G-9123-60242

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: RJN
DRAWN: RJN
CHECKED: PJS

ENGINEERING CERTIFICATION
LICENSED LANDSCAPE ARCHITECT ROBERT J. NORBUT, A.S.L.A. No.5595 Signature Exp. 11/30/18 STATE OF CALIFORNIA 9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

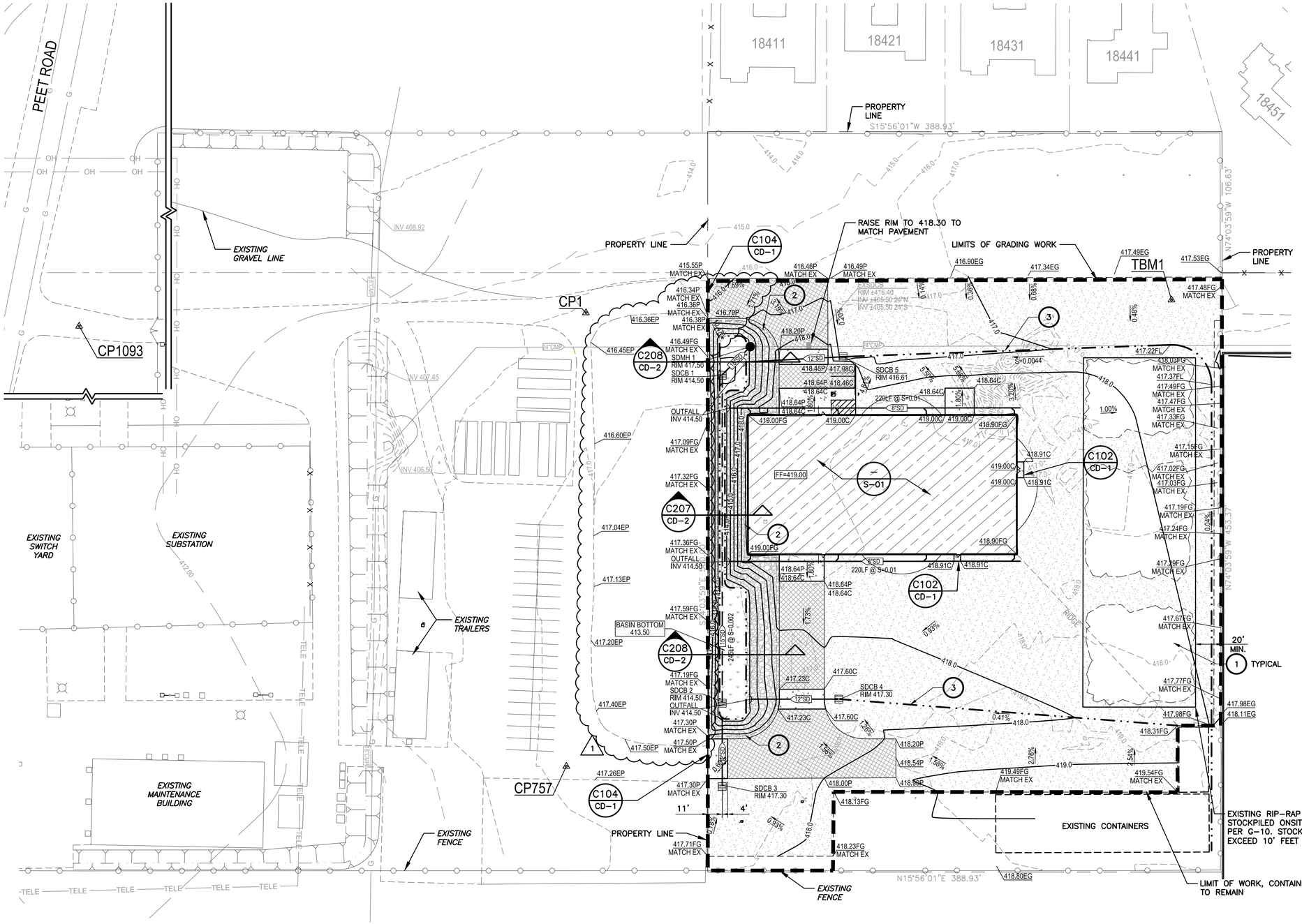
PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

TYPICAL LANDSCAPE DETAILS II

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

PROJECT NUMBER: 91234011
SHEET CODE: LD-2
SHEET NUMBER: 16 OF 59



LEGEND

- LIMITS OF GRADING WORK
- DRAIN SWALE OR TOP OF SLOPE
- EXISTING TREES TO REMAIN.
- CP TBM — SURVEY CONTROL POINTS SEE TABLE BELOW
- AC PAVEMENT (TI=7.0) 4" AC OVER 15.5" CLASS II AB MOISTURE CONDITIONED TO AT LEAST OPTIMUM AND COMPACTED TO AT LEAST 90% RELATIVE COMPACTION OVER 12" NATIVE SOIL SCARIFIED AND MOISTURE CONDITIONED FROM 0 TO 3% ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 95% RELATIVE COMPACTION.
- EXTERIOR CONCRETE 8" 3000PSI P.C.C. WITH #4 BARS @ 12" O.C.E.W. OVER 6.0" CLASS II AB OVER 8" NATIVE SOIL SCARIFIED AND MOISTURE CONDITIONED FROM 0 TO 3% ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 95% RELATIVE COMPACTION. UNLESS OTHERWISE NOTED.
- BUILDING CONCRETE SEE SHEET S-01
- GRAVEL PARKING 3" OF 3/4" CRUSHED GRAVEL OVER MIRRAFI 140N FABRIC OVER 12" NATIVE SOIL SCARIFIED AND MOISTURE CONDITIONED TO AT LEAST 2% ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90%, BUT NOT MORE THAN 95%, RELATIVE COMPACTION.
- WATER QUALITY PLANTING SEE SHEETS GL1.0, L1.0, L2.0, LD1.0, AND LD2.0.
- ROCK STABILIZATION SEE SHEET CD-2, DETAIL C207

SURVEY CONTROL POINTS

CONTROL POINT DESCRIPTION:	CP757	CONTROL POINT DESCRIPTION:	CP1093
NORTHING:	1882308.95	NORTHING:	1881787.42
EASTING:	6230416.71	EASTING:	6229921.59
ELEVATION:	417.24	ELEVATION:	411.98
CONTROL POINT DESCRIPTION:	CP1	CONTROL POINT DESCRIPTION:	TBM 1
NORTHING:	1882417.34	NORTHING:	1882845.82
EASTING:	6230090.87	EASTING:	6230203.09
ELEVATION:	416.23	ELEVATION:	417.43

KEY NOTES:

1. RIP RAP STOCKPILE AREA STOCKPILE AT 10' MAX HEIGHT PER G-10
2. MAINTAIN MINIMUM 2' BENCH AT 5% MAX, TYPICAL
3. GRADE TO DRAIN

GENERAL GRADING NOTES:

1. GRADE SITE TO DRAIN

SCALE: 1"=40' (0' 20' 40' 80')

TRUE NORTH / PROJECT NORTH

DOCUMENT NUMBER: CPP-G-9123-60243

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

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3244 Brookside Road, Suite 100
Stockton, California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: RJN
DRAWN: RJN
CHECKED: PJS

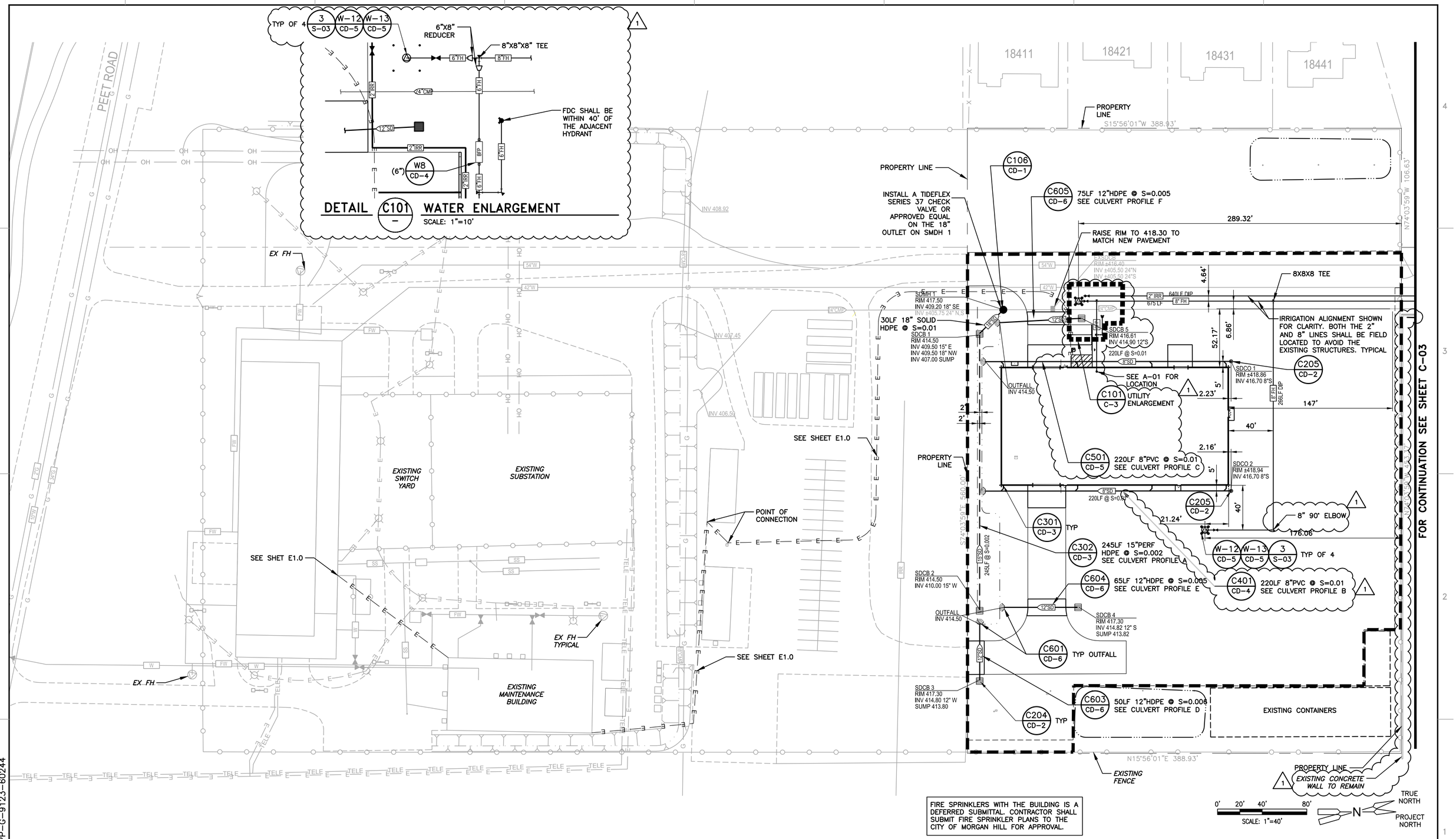
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — PAUL J. SCHNEIDER — No. 62498 — Exp. 09/30/19 — CIVIL — STATE OF CALIFORNIA
9/25/2018
ENGINEER

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

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE WAREHOUSE PROJECT
GRADING, PAVING, AND DRAINAGE PLAN

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

PROJECT NUMBER: 91234011
SHEET CODE: C-01
SHEET NUMBER: 17 OF 59



DOCUMENT NUMBER: CPP-G-9123-60244

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
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209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: PJS
DRAWN: MWK
CHECKED: PJS

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62498 Exp. 09/30/19 CIVIL STATE OF CALIFORNIA
9/25/2018
ENGINEER

Santa Clara Valley Water District

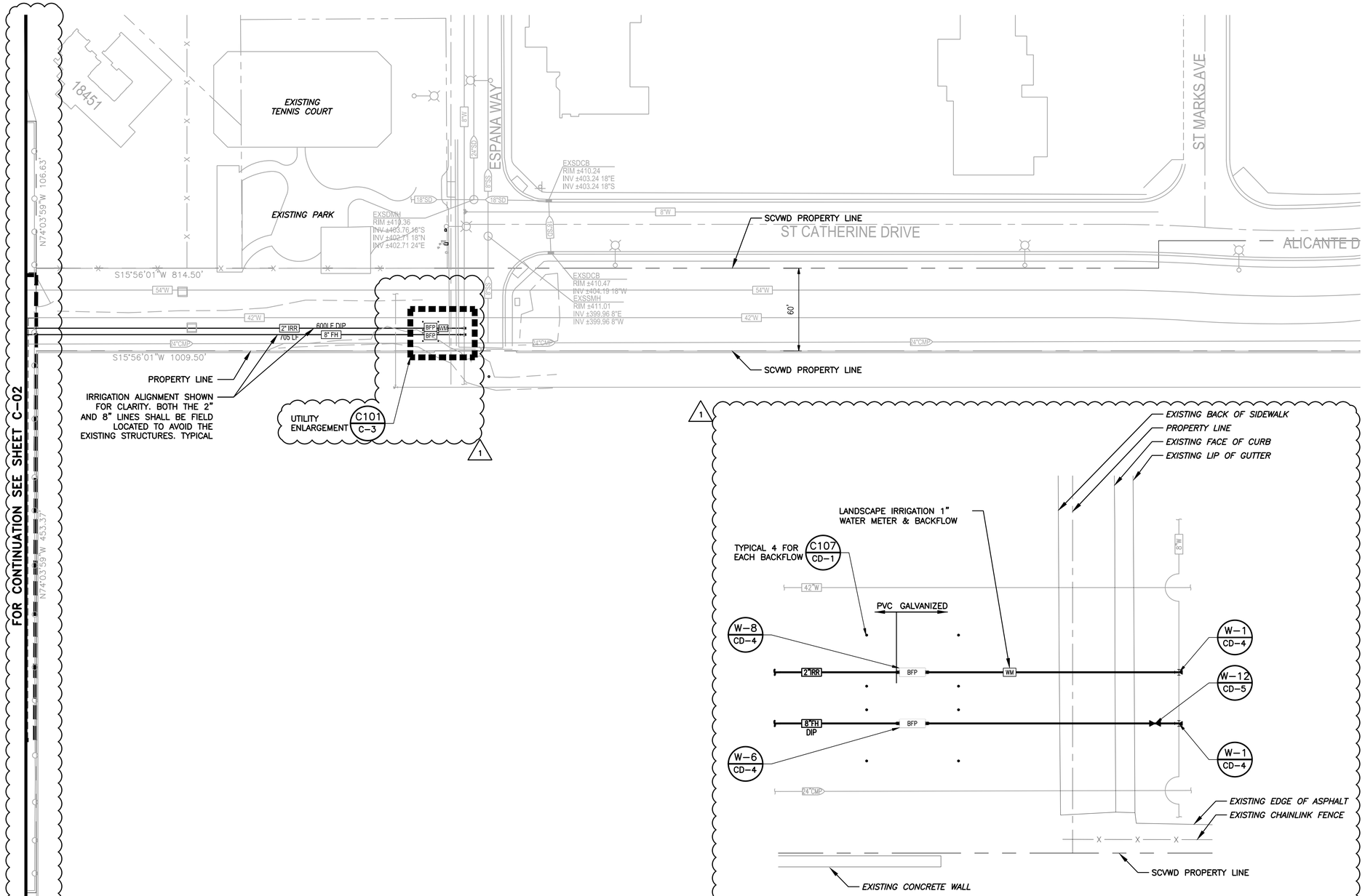
ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

YARD PIPING PLAN I

SCALE	PROJECT NUMBER
SHOWN	91234011
VERIFY SCALES: 0 1" — BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-02
	SHEET NUMBER: 18 OF 59



DETAIL C101 — UTILITY ENLARGEMENT

SCALE: N.T.S.

0' 20' 40' 80'
SCALE: 1"=40'

N — TRUE NORTH / PROJECT NORTH

DOCUMENT NUMBER: CPP-G-9123-60245

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: PJS
DRAWN: MWK
CHECKED: PJS

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — PAUL J. SCHNEIDER — No. 62498 — Exp. 09/30/19 — CIVIL — STATE OF CALIFORNIA
9/25/2018
ENGINEER DATE

Santa Clara Valley Water District
ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

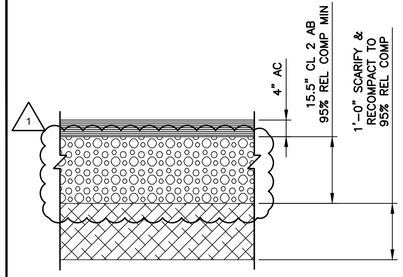
PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

YARD PIPING PLAN II

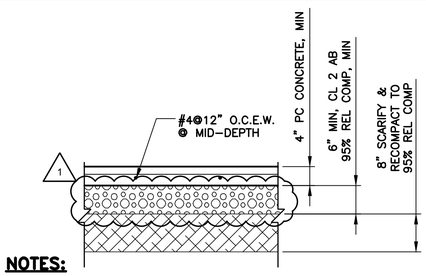
SCALE: SHOWN
VERIFY SCALES: 0 1" — BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 91234011
SHEET CODE: C-03
SHEET NUMBER: 19 OF 59



DETAIL C101 – TYPICAL PAVEMENT

SCALE: N.T.S.

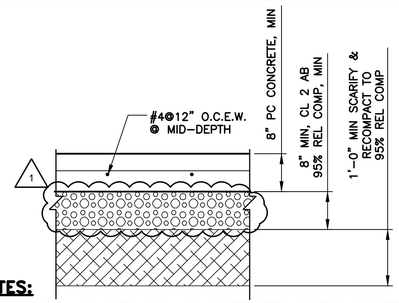


NOTES:

1. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT REGULAR INTERVALS NOT TO EXCEED 10 FEET ON CENTER, EACH WAY.
2. SUBGRADE SOILS SHALL BE 0 TO 3 PERCENT ABOVE LABORATORY OPTIMUM MOISTURE PER ASTM D 1557 PRIOR TO CONCRETE PLACEMENT.

DETAIL C102 – TYPICAL 4-INCH SLAB-ON-GRADE

SCALE: N.T.S.

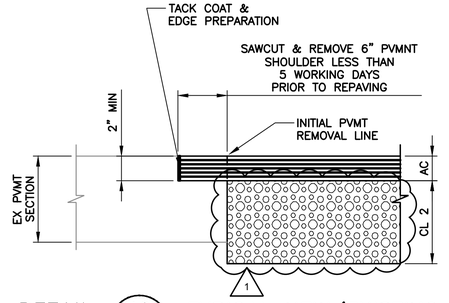


NOTES:

1. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT REGULAR INTERVALS NOT TO EXCEED 10 FEET ON CENTER, EACH WAY.
2. SUBGRADE SOILS SHALL BE 0 TO 3 PERCENT ABOVE LABORATORY OPTIMUM MOISTURE PER ASTM D 1557 PRIOR TO CONCRETE PLACEMENT.

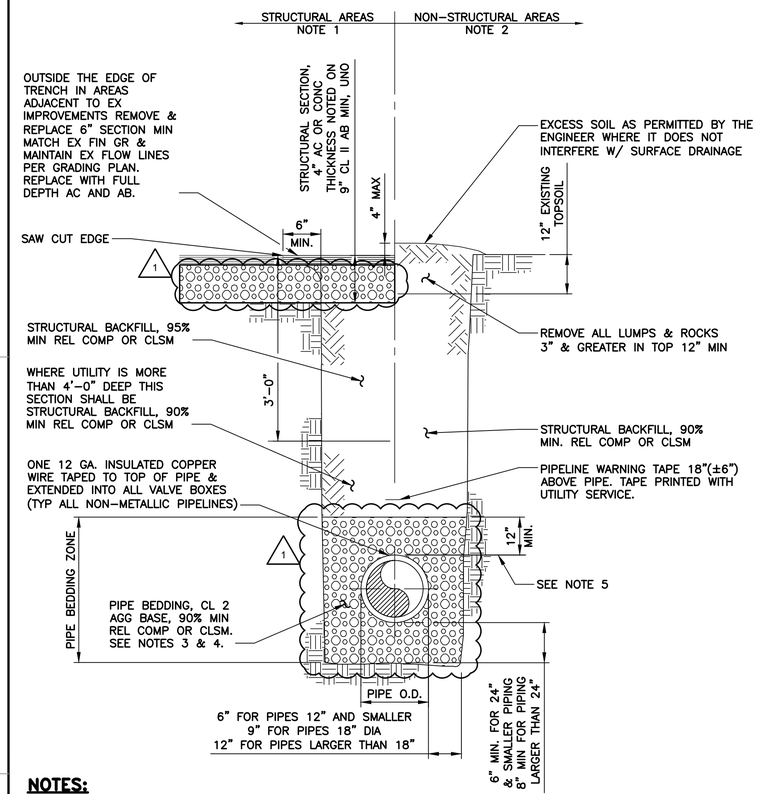
DETAIL C103 – TYPICAL 8-INCH SLAB-ON-GRADE

SCALE: N.T.S.



DETAIL C104 – TYPICAL NEW/EXISTING PAVEMENT TRANSITION

SCALE: N.T.S.



NOTES:

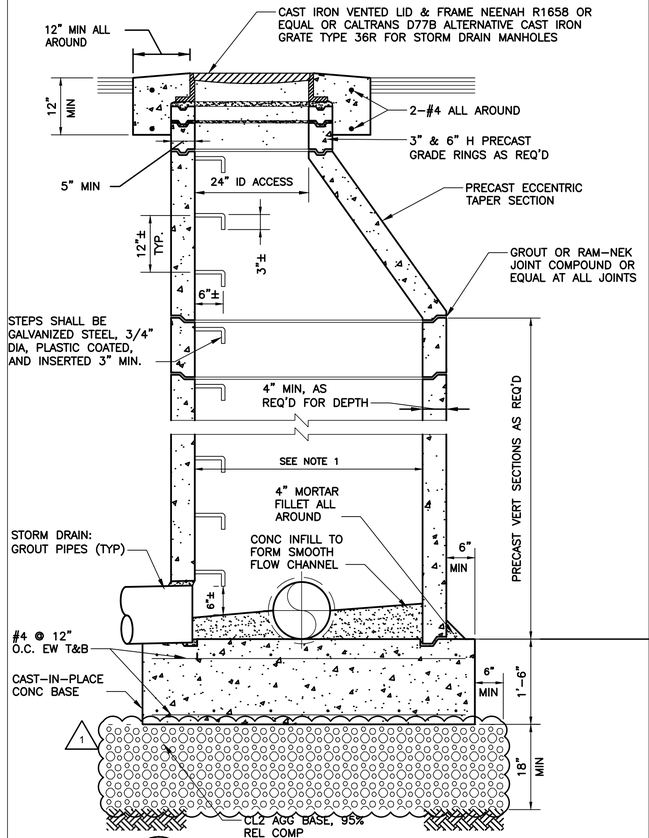
1. STRUCTURAL AREAS INCLUDE, BUT ARE NOT LIMITED TO, AREAS TO RECEIVE AC OR CONC PAVEMENT SECTION, ALL SLAB-ON-GRADES, CURBS & GUTTERS, STRUCTURAL IMPROVEMENTS, & WITHIN 3' OF SUCH IMPROVEMENTS.
2. NON-STRUCTURAL AREAS INCLUDE AREAS TO BE LANDSCAPED OR NOT OTHERWISE REQUIRED TO BE IMPROVED.
3. FOR PIPELINES IN DESIGNATED AREAS, PIPE BEDDING SHALL BE PEA GRAVEL.
4. IF CLSM IS USED AS PIPE BEDDING, CONTRACTOR SHALL TAKE MEASURES TO PREVENT PIPE FLOTATION.
5. DEPTH OF COVER FROM FINISHED GRADE VARIES, 3' MIN FOR PIPES 6" DIA OR GREATER, 2' MIN FOR PIPES LESS THAN 6" DIA, UNLESS NOTED OTHERWISE.

DETAIL C105 – TYPICAL TRENCH SECTION

SCALE: N.T.S.

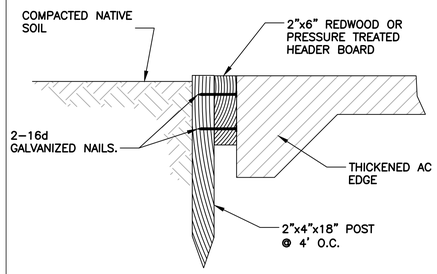
NOTES:

1. ID IS 48" EXCEPT WHERE NOTED ON THE DRAWINGS.
2. WHEN PLACED IN AREAS TO REMAIN UNIMPROVED, TOP OF LID SHALL BE SET 4" ABOVE SURROUNDING GRADE.



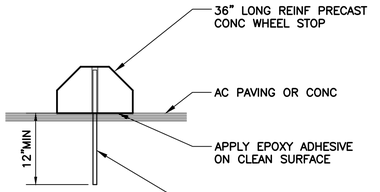
DETAIL C106 – TYPICAL CONCRETE MANHOLE

SCALE: 3/4"=1'-0"



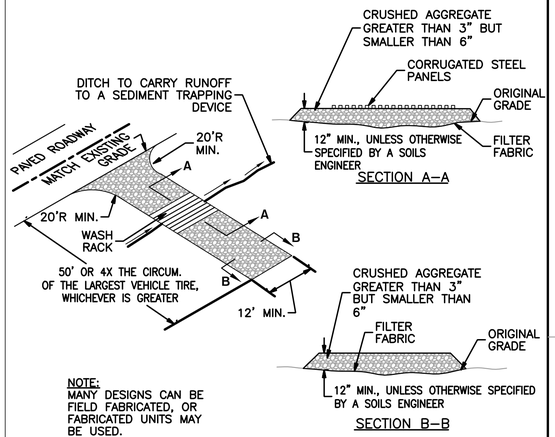
DETAIL C107 – REDWOOD HEADER

SCALE: N.T.S.



DETAIL C108 – TYPICAL WHEEL STOP

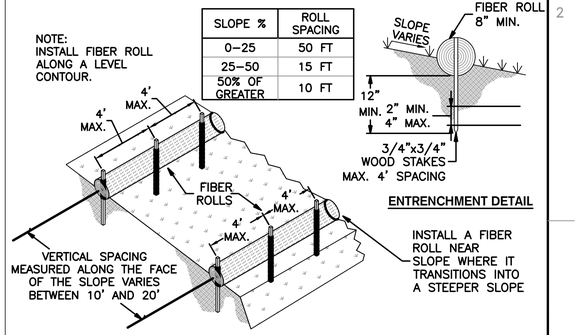
SCALE: N.T.S.



NOTE:
MANY DESIGNS CAN BE FIELD FABRICATED, OR FABRICATED UNITS MAY BE USED.

DETAIL C109 – STABILIZED ENTRANCE AND OUTLET TIRE WASH

SCALE: N.T.S.



ENTRENCHMENT DETAIL

TYPICAL FIBER ROLL INSTALLATION

DETAIL C110 – FIBER ROLLS

SCALE: N.T.S.

DOCUMENT NUMBER: CPP-G-9123-60246

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: PJS
DRAWN: MWK
CHECKED: PJS

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62498 Exp. 09/30/19 CIVIL STATE OF CALIFORNIA

9/25/2018

ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

CIVIL DETAILS I

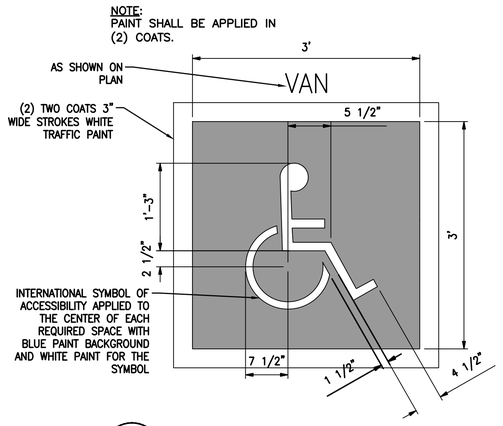
SCALE: SHOWN

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

PROJECT NUMBER: 91234011

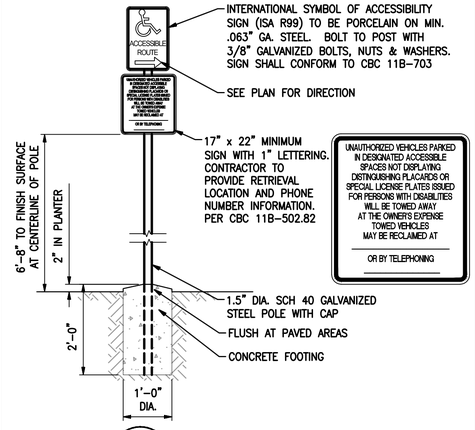
SHEET CODE: CD-1

SHEET NUMBER: 20 OF 59



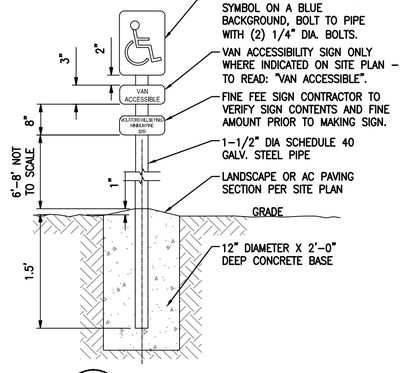
DETAIL C201 – ACCESSIBLE STALL INDICATOR

SCALE: N.T.S.



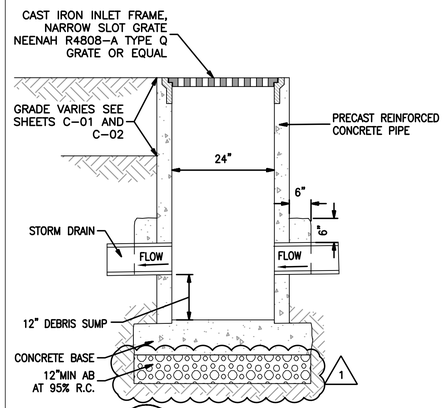
DETAIL C202 – ACCESSIBLE ROUTE SIGN

SCALE: N.T.S.



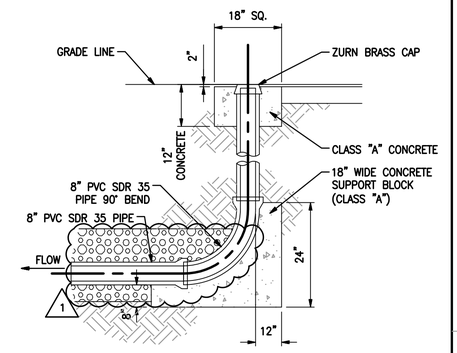
DETAIL C203 – ACCESSIBLE PARKING SIGN

SCALE: N.T.S.



DETAIL C204 – 2'X2' CATCHBASIN

SCALE: N.T.S.

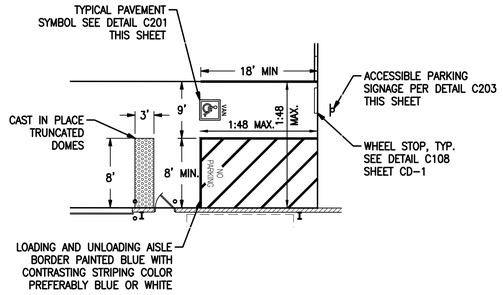


DETAIL C205 – STORM DRAIN CLEANOUT

SCALE: N.T.S.

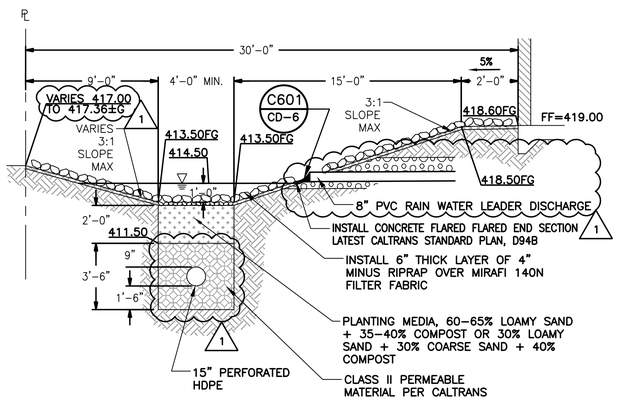
PARKING NOTES

1. ACCESSIBLE STALLS SHALL BE AS NEAR AS POSSIBLE TO THE PRIMARY ENTRANCE OF THE BUILDING.
2. FREE STANDING SIGNS LOCATED AT INTERIOR END OF A PARKING SPACE SHALL BE MOUNTED A MINIMUM OF 80" HIGH IF IN A PATH OF TRAVEL.
3. BUMPERS ARE REQUIRED WHEN NO CURB BARRIER IS PROVIDED TO PREVENT ENCROACHMENT OF CARS OVER WALKWAYS.
4. WHEELCHAIR USERS MUST NOT BE FORCED TO GO BEHIND PARKED CARS OTHER THAN THEIR OWN.
5. EACH PARKING SPACE IS REQUIRED TO BE AT LEAST 18' LONG.
6. SURFACE & CROSS SLOPES OF PARKING AREAS FOR THE DISABLED SHOULD BE MINIMAL, BUT SHALL NOT EXCEED 1:48 MAXIMUM IN ALL DIRECTIONS.
7. EXCEPT AS PROVIDED BELOW, ACCESS AISLES ADJACENT TO ACCESSIBLE SPACES SHALL BE 60" WIDE MINIMUM.
8. ONE IN EVERY EIGHT ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 96" WIDE MINIMUM, AND SHALL BE DESIGNATED "VAN ACCESSIBLE".
9. THE VERTICAL CLEARANCE AT SUCH SPACES SHALL BE A MINIMUM OF 8'-2" AND MAY BE GROUPED ON ONE LEVEL OF A PARKING STRUCTURE.
10. SINCE A PERSON WITH A DISABILITY, USING A LIFT OR RAMP, MUST MANEUVER WITHIN IN THE ACCESS AISLE, THE AISLE CANNOT INCLUDE A RAMP OR SLOPED AREA.
11. THE SYMBOL OF INTERNATIONAL ACCESSIBILITY SHALL BE (WHITE FIGURE ON BLUE BACKGROUND) SURFACE PAINTED IN ALL ACCESSIBLE PARKING STALLS, SHALL BE 36"X36" (EXCLUDING BOARDER) AND BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED.
12. THE WORDS "NO PARKING" SHALL BE PAINTED ON THE GROUND WITHIN EACH ACCESS AISLE SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER. THE LETTERS SHALL BE WHITE AND 12" HIGH MIN.



DETAIL C206 – ACCESSIBLE STALL DETAIL

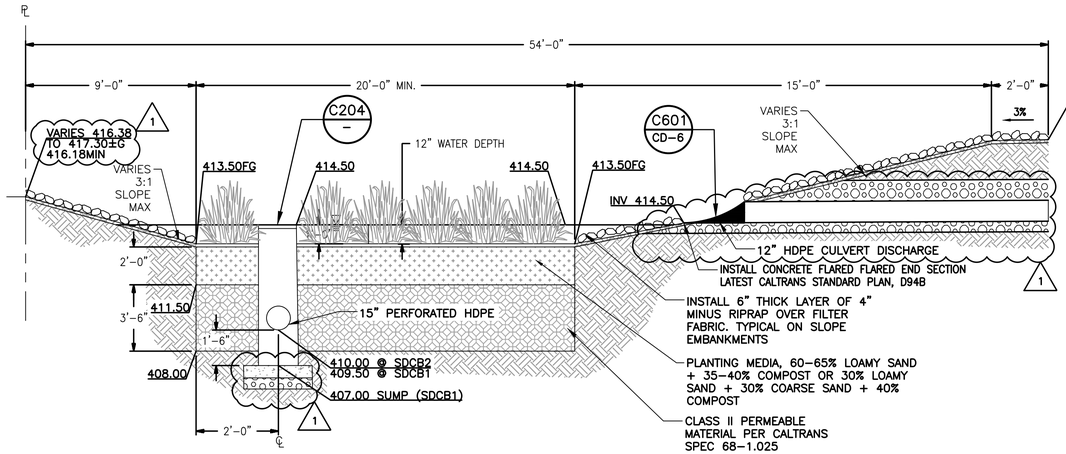
SCALE: N.T.S.



BIORETENTION	
TOTAL WIDTH	VARIES
BOTTOM WIDTH	4'-0"
TOTAL LENGTH	VARIES
BOTTOM LENGTH	VARIES
WATER DEPTH	1'-0"
SOIL DEPTH	2'-0"
GRAVEL DEPTH	3'-6"

DETAIL C207 C-01 – BIO-RETENTION BASIN

SCALE: N.T.S.



BIORETENTION	
TOTAL WIDTH	VARIES
BOTTOM WIDTH	20'-0" MIN
TOTAL LENGTH	VARIES
BOTTOM LENGTH	VARIES
WATER DEPTH	1'-0"
SOIL DEPTH	2'-0"
GRAVEL DEPTH	3'-6"

DETAIL C208 C-01 – BIO-RETENTION BASIN

SCALE: N.T.S.

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: PJS
DRAWN: MWK
CHECKED: PJS

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62498 Exp. 09/30/19 CIVIL STATE OF CALIFORNIA

9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT
PROJECT ENGINEER — DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

CIVIL DETAILS II

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

PROJECT NUMBER: 91234011
SHEET CODE: CD-2
SHEET NUMBER: 21 OF 59

DOCUMENT NUMBER: CPP-G-9123-60247

WATER SECTION

GENERAL

All work shall be done in accordance with the latest editions of the American Water Works Association Standards (AWWA), and the American Society for Testing and Materials (ASTM), except as modified herein.

WATER LINES

All water lines shall be Ductile Iron (Min. Thickness Class 50) with Ductile Iron fittings and shall conform to AWWA/ANSI C151/A21.51 standards. ALL valves, valve boxes, and covers shall be as indicated in the City of Morgan Hill Standard Details.

A standard gate valve, with a brass blow–off shall be installed at the end of all dead–end lines. A 1" air relief valve must be installed at all high points in the line. Water tight plugs shall be placed at all open ends of pipes when the job site is unattended.

All water services shall be Type "K" copper tubing as shown on Detail W–1.

The concrete Contractor shall stamp a letter "W" on the face of curb directly above the water service.

All fire hydrants shall have companion valves and be of the type indicated on Detail W–8.

All water lines shall be blocked with concrete kick blocks at all changes in direction, all bends, crosses, wyes, tees, reducers, plugs, dead–ends and changes is size. Thrust block or kick block dimensions shall be based on the greater of either 150 PSI min. or 1.5 times the working pressure, while assuming a 2000 PSF soil bearing.

CLEANING AND TESTING

After installation, all pipe lines shall be flushed at 1.0 fps (main line velocity) with clean water. Lines shall be filled slowly and provisions shall be made for venting of the air. Only Department of Public Works Personnel shall open valves to the City's water system. Water lines shall be tested for tightness at the lower end of the line under a hydrostatic pressure of 150 PSI, or 50% above normal operating pressure, whichever is greater. The Contractor shall furnish all necessary equipment, labor and materials needed for the test. The test shall conform to AWWA C600 Section 4 and be conducted for at least 2 hours. See Detail W–IV for allowable leakage of ductile iron pipe.

All water lines shall be tested after completion of the trench backfill and compaction of the final base material, but prior to placement of the final roadway surface.

STERILIZATION

After pressure testing, and before putting into service, all water lines shall be chlorinated by the Contractor in accordance with AWWA C651 or as directed by the City Engineer. Chlorine is furnished by the Contractor and chlorination shall be supervised by a City Inspector.

Chlorination by placement of chlorine tablets in each section of pipe is allowed and shall be in accordance with AWWA C651 and held for a duration of 24 hours.

City of Morgan Hill — Public Works Department
Jim Ashcraft — CITY ENGINEER — 4/1/96 DATE — 3/15/07 REVISED
GENERAL NOTES — DRAWING NO. W–I

MICROBIOLOGICAL TESTING

The Contractor shall provide the City with a laboratory report as to the purity of the water before acceptance by the City and placement of the new lines into service. The procedures for such tests shall be as follows:

1. The Contractor shall notify and receive approval for coliform bacteria testing from the Inspector a minimum of 48 hours prior to taking the test, and only after the water line has been hydrostatically tested, chlorinated, final flushed and passed by the Inspector.

2. All sampling and testing for the City of Morgan Hill Water System shall be performed by authorized staff from any laboratory chosen by the Contractor which is certified by the California State Department of Health Services to perform microbiological analysis of drinking water.

3. Authorized staff from the chosen certified laboratory shall take a chlorine residual test prior to taking the coliform test. Chlorine residual shall not exceed 0.3 parts per million, otherwise the coliform test shall not be taken. Flushing shall then continue until the maximum chlorine level is attained.

4. The Contractor shall submit to the Public Works Department the following items:

   A. Proof of State Department of Health Services certification for the laboratory chosen;

   B. A copy (Fax OK) of the chain–of–custody for the water sample;

   C. A copy (Fax OK) of the results of the test with an original "hard copy" to follow.

5. Upon review and approval of the items submitted in item 4., only Department of Public Works personnel shall open the necessary valves to connect the new lines to City's water system. Failure to follow the above requirement shall be considered an "unlawful connection" to the City Water System and may result in the issuing of a citation and fines as specified in Section 13.04 of the Morgan Hill Municipal Code.

6. Connections requiring shut down of the system shall be done between the hours of 12:00 Midnight and 6:00 AM, and only upon coordination with the Department of Public Works.

DUCTILE IRON

(a) Pipe. Ductile iron pipe shall conform to the requirements of AWWA C100 series. Class 50 pipe shall be the minimum allowable thickness class.

(b) Joints. All ductile iron pipe laid underground shall have push–on, mechanical, or flange joints unless approved otherwise.

(c) Lining and Coating. Water pipes shall be smooth cement lined in accordance with the requirements of AWWA C104. Polyethylene encasement wrap may be required in special soil conditions. Wrapping shall be in accordance with AWWA C105.

(d) Fittings. Fittings shall be cast iron, cement lined and coal tar pitch varnish coated of the Bell and Spigot type and shall conform to ANSI A21.10. Where a specific type of fitting is called for on the Plans, this type shall be used. Fittings shall be all bell, unless indicated otherwise on the Plans. Fitting joints shall be made up with roll–on rubber gaskets. Junctions with other types shall be made with suitable adapters or fittings. Gaskets shall be rubber.

City of Morgan Hill — Public Works Department
Jim Ashcraft — CITY ENGINEER — 4/1/96 DATE — ____ REVISED
GENERAL NOTES — DRAWING NO. W–II

DUCTILE IRON (Continued)

(e) Taps. Taps into ductile iron pipe shall be by machine. Contractor shall perform all service taps as the City does not provide this service. Hot taps to main lines will be allowed only upon approval of the City Engineer. Tapping sleeves may only be used where a water main is at least two nominal sizes larger than the proposed branch. Less than two nominal size differential may be allowed upon City Engineer approval, but will not be allowed on water mains that are not ductile iron.

VALVES

All gate valves shall meet the standards of AWWA C509. Flanged ends shall meet the requirements of ANSI B16.1, class 125. Mechanical joint ends shall meet the requirements of AWWA C111. Interior corrosion prevention coatings shall meet the requirements of AWWA C550. All valves shall be resilient wedge, non–rising stem and double O–ring equipped.

Butterfly valves shall only be used upon the direction or approval of the City Engineer and shall meet the requirements of AWWA C504.

BOLTS AND NUTS

Underground bolts and nuts shall be of low carbon steel in accordance with AWWA C141. Stainless steel bolts and nuts may be required upon direction of the City Engineer.

DEPTH

All water lines shall have a minimum of 36 inches cover at any given time, unless directed otherwise by the City Engineer.

MARKER POSTS

Contractor shall place marker posts adjacent to all air relief valves and blow off assemblies along water mains located in unimproved areas or fields. The posts shall be pressure treated redwood 4"x4"x6', painted white, buried 2'–6", and inscribed with "W/A.V." (for air relief valves) or "B.O." (for blow off assemblies), in 3 inch high carved letters painted blue.

City of Morgan Hill — Public Works Department
Jim Ashcraft — CITY ENGINEER — 4/1/96 DATE — ____ REVISED
GENERAL NOTES — DRAWING NO. W–III

ALLOWABLE LEAKAGE FOR DUCTILE IRON PIPE

ALLOWABLE LEAKAGE (PER 1000 L.F.)

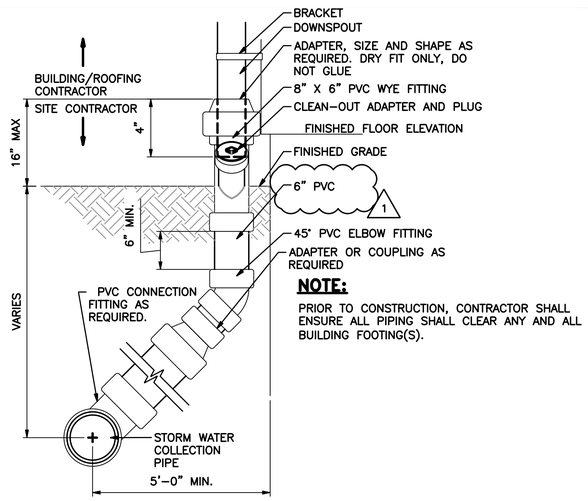
PIPE DIAMETER (inches)	AVG. TEST PRESSURE AT LOWEST POINT IN THE LINE– PSI						
	50	75	100	125	150	200	225
	LEAKAGE– GAL./HR.						
4	0.21	0.26	0.30	0.34	0.37	0.42	0.45
6	0.32	0.39	0.45	0.50	0.55	0.64	0.68
8	0.42	0.52	0.60	0.67	0.74	0.85	0.90
10	0.53	0.65	0.75	0.84	0.92	1.06	1.13
12	0.64	0.78	0.90	1.01	1.10	1.27	1.35
14	0.74	0.91	1.05	1.18	1.29	1.49	1.58
16	0.85	1.04	1.20	1.34	1.47	1.70	1.80
18	0.96	1.17	1.35	1.51	1.66	1.91	2.03
20	1.06	1.30	1.50	1.68	1.84	2.12	2.25
24	1.27	1.56	1.80	2.01	2.21	2.55	2.70

* DATA BASED ON THE FOLLOWING FORMULA: PER AWWA C600 SEC. 4

$$\frac{(\text{DIA.})(\text{LENGTH})(\sqrt{\text{AVG. TEST PRESSURE}})}{133200} = \text{ALLOWABLE LEAKAGE (GALLONS / HOUR)}$$

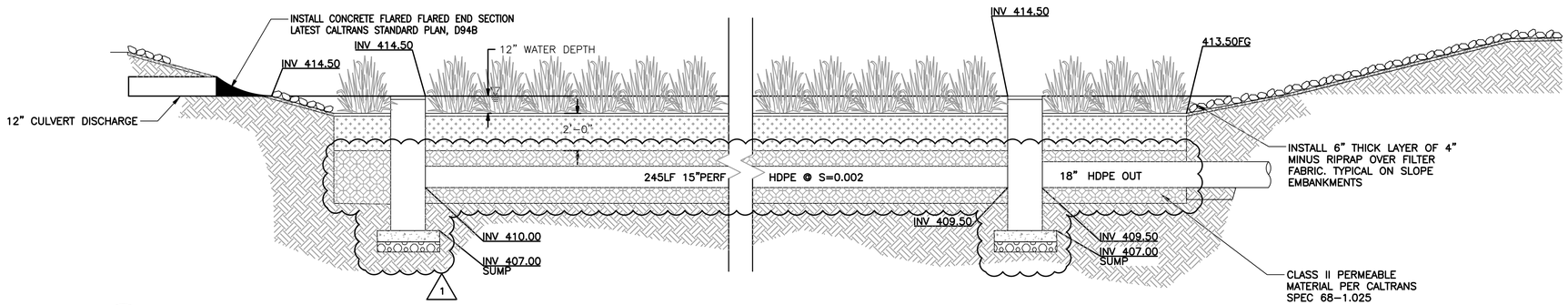
City of Morgan Hill — Public Works Department
Jim Ashcraft — CITY ENGINEER — 4/1/96 DATE — ____ REVISED
GENERAL NOTES — DRAWING NO. W–IV

NOTE:
PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL OBTAIN FROM THE CITY THE MOST CURRENT DETAILS.



NOTE:
PRIOR TO CONSTRUCTION, CONTRACTOR SHALL ENSURE ALL PIPING SHALL CLEAR ANY AND ALL BUILDING FOOTING(S).

DETAIL C301 — DOWNSPOUT CONNECTION
SCALE: N.T.S.



DETAIL C302 — CULVERT PROFILE A
SCALE: N.T.S.

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
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Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: PJS
DRAWN: MWK
CHECKED: PJS

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — PAUL J. SCHNEIDER — No. 62498 — Exp. 09/30/19 — CIVIL — STATE OF CALIFORNIA
9/25/2018
ENGINEER

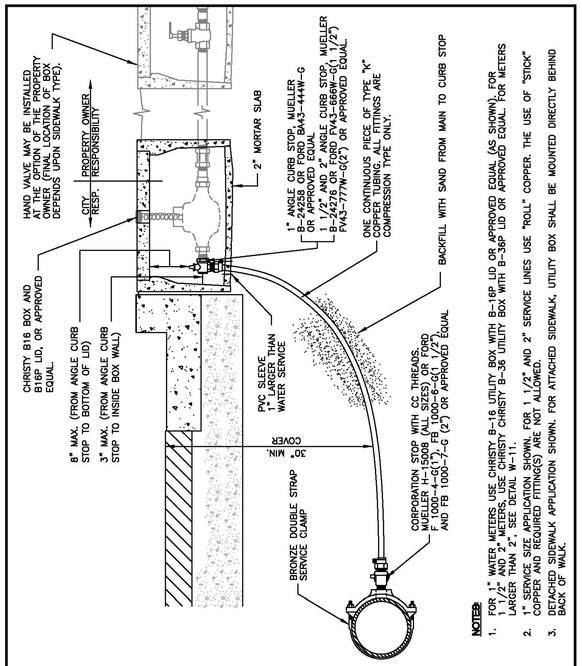
Santa Clara Valley Water District
ACCEPTED BY DISTRICT
PROJECT ENGINEER — DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE WAREHOUSE PROJECT
CIVIL DETAILS III

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

PROJECT NUMBER: 91234011
SHEET CODE: CD–3
SHEET NUMBER: 22 OF 59

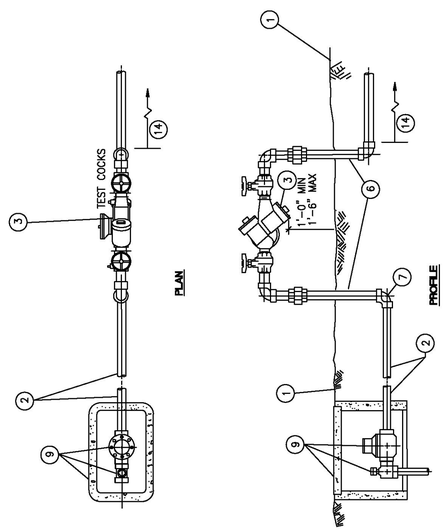
DOCUMENT NUMBER: CPP–G–9123–60248



NOTES:

1. FOR 1" WATER METERS, USE CHRISTY B-16 UTILITY BOX WITH B-16P LID OR APPROVED EQUAL (AS SHOWN) FOR 1 1/2" AND 2" METERS, USE CHRISTY CHRISTY B-36 UTILITY BOX WITH B-36P LID OR APPROVED EQUAL FOR METERS LARGER THAN 2". SEE DETAIL W-11.
2. 1" SERVICE SIZE APPLICATION SHOWN. FOR 1 1/2" AND 2" SERVICE LINES USE "ROLL" COPPER. THE USE OF "STICK" COPPER AND REQUIRED FITTING(S) ARE NOT ALLOWED.
3. DETACHED SIDEWALK APPLICATION SHOWN. FOR ATTACHED SIDEWALK, UTILITY BOX SHALL BE MOUNTED DIRECTLY BEHIND BACK OF WALK.

City of Morgan Hill Public Works Department			TYPICAL WATER SERVICE INSTALLATION	DRAWING NO.
Jim Ashcraft CITY ENGINEER	4/1/96 DATE	3/15/07 REVISED		W-1



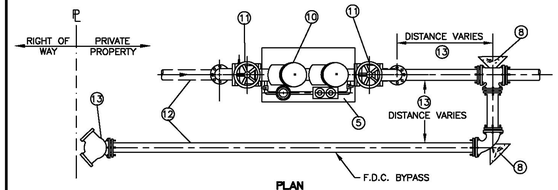
FOR NOTES AND LEGEND, SEE DETAIL W-10

(FOR SIZES 1 " TO 2" BACKFLOW UNITS SHALL BE FEBCO 825 Y OR APPROVED EQUAL)

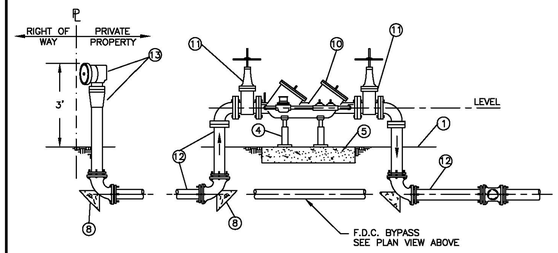
NOTE:

1. PIPING BETWEEN BACKFLOW DEVICE AND METER SHALL BE EXPOSED FOR INSPECTION BY THE UTILITY SYSTEMS MANAGER.

City of Morgan Hill Public Works Department			REDUCED PRESSURE BACKFLOW PREVENTER (SIZES 1" TO 2")	DRAWING NO.
Jim Ashcraft CITY ENGINEER	4/1/96 DATE	3/15/07 REVISED		W-6



PLAN



PROFILE

FOR NOTES AND LEGEND, SEE DETAIL W-10.

NOTES:

1. REQUESTED DEVIATIONS FROM THE F.D.C. BYPASS CONFIGURATION (IF BYPASS IS REQUIRED) ABOVE SHALL BE SUBMITTED IN THE FORM OF A PLAN AND PROFILE DRAWING AND MUST BE APPROVED BY THE CITY ENGINEER.
2. APPLICATION SHOWN IS FOR PRIVATELY MAINTAINED FIRE SERVICES, SEE DETAILS W-9 AND W-11 FOR METER (IF REQUIRED) AND CONNECTION INFORMATION.

City of Morgan Hill Public Works Department			DOUBLE DETECTOR CHECK VALVE ASSEMBLY	DRAWING NO.
Jim Ashcraft CITY ENGINEER	4/1/96 DATE	3/15/07 REVISED		W-8

LEGEND

1. FINISHED GRADE.
2. SERVICE SIZE GALVANIZED STEEL PIPE FROM WATER METER.
3. REDUCED PRESSURE BACKFLOW PREVENTER FEBCO 825Y (OR APPROVED EQUAL) FOR SIZES 1" TO 2" AND FEBCO 825 YD (OR APPROVED EQUAL) FOR SIZES 2 1/2" TO 4".
4. ADJUSTABLE PIPE SADDLE SUPPORT, GALVANIZED STEEL, SUITABLE FOR SUPPORTING GENERAL PIPNG 4" AND LARGER, FROM FLOOR (12" MIN. AND 18" MAX. DISTANCE FROM BOTTOM OF DEVICE TO FLOOR).
5. 6" CONCRETE ENCLOSURE PAD, SIZE AS SHOWN ON THE PLAN.
6. SERVICE SIZE GALVANIZED STEEL PIPE RISER WITH A MINIMUM OF TWO (2) UNIONS FOR THREADED CONNECTIONS.
7. 90° ELBOW, FLANGED OR THREADED.
8. CONCRETE THRUST BLOCK (SEE DETAIL W-17 FOR MINIMUM THRUST BLOCK DIMENSIONS.)
9. WATER SERVICE BY OTHERS PER DTL. W-1
10. DOUBLE DETECTOR CHECK VALVE ASSEMBLY TO BE FEBCO 806 YD OR APPROVED EQUAL
11. VALVES TO BE MUELLER O.S & Y.A-2473-6 OR APPROVED EQUAL, CHAINED AND LOCKED WITH "KNOX BOX" TYPE LOCK, AND TAMPER SWITCH.
12. ALL PIPE SHALL BE DUCTILE IRON PIPE (D.I.P), AND ALL FITTINGS SHALL BE FLANGED.
13. FIRE DEPARTMENT CONNECTION, F.D.C., SHALL BE 4" RISER X 2.5" X 2.5" SIAMESE CONNECTIONS AND STRAIGHT WAY CHECK VALVE, ("KWIK-CHECK" OR APPROVED EQUAL), WITH METAL CAPS. WHEN THE F.D.C. SERVES ON-SITE FIRE HYDRANTS, THE ASSEMBLY SHALL BE 6" MINIMUM (RISER) x 2.5" x 2.5" x 2.5" x 2.5" (CONNECTIONS). LOCATION OF F.D.C. RISER TO BE NO MORE THAN 40' FROM THE NEAREST FIRE HYDRANT. CONTRACTOR MAY BE REQUIRED TO INSTALL A NEW HYDRANT IF THE ABOVE ABOVE REQUIREMENT CANNOT BE MET. LOCATION OF BYPASS CONNECTION SHALL BE MADE BEHIND THE THE DEVICE (DOWN-STREAM SIDE).
14. TYPE OF PIPE FROM THIS POINT INWARD, PER APPROVED PLAN.

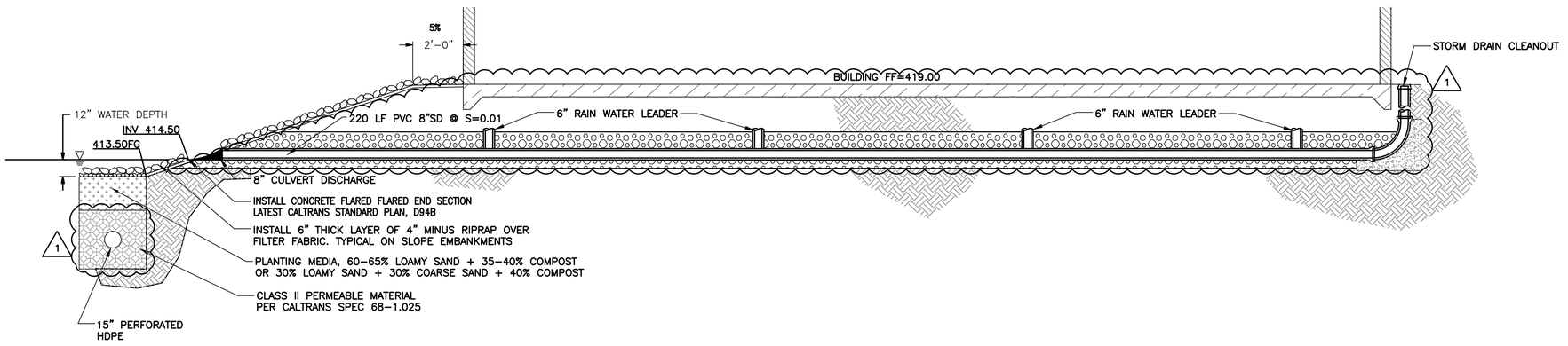
NOTES:

1. GATE VALVES AND TEST COCKS ARE REQUIRED.
2. WATER SUPPLY- NO CONNECTIONS OR TEES WILL BE ALLOWED BETWEEN THE WATER METER AND BACKFLOW UNIT.
3. PROTECTION FROM FREEZE DAMAGE MAY BE REQUIRED IN EXPOSED AREAS.
4. DEVICE MUST BE ACCESSIBLE FOR TESTING AND MAINTENANCE.
5. WRAP BURIED GALVANIZED PIPE WITH 10 MIL PVC TAPE.
6. ASSEMBLY MUST BE TESTED BY A TESTER APPROVED BY THE CITY OF MORGAN HILL. THE CITY APPROVED TESTER LIST CAN BE OBTAINED BY CALLING 408-776-7333.
7. ASSEMBLY MUST BE LOCATED ABOVE GROUND AND DIRECTLY BEHIND WATER METER AS SHOWN ON DTL W-6 ,W-7 AND W-8.
8. ADDITIONAL INFORMATION MAY BE OBTAINED FROM M.H. ORDINANCE 647 NEW SERIES, ADOPTED OCT, 1993
9. ALL DEVICES MUST BE APPROVED BY THE "FOUNDATION FOR CROSS CONNECTION AND HYDRAULIC RESEARCH".

City of Morgan Hill Public Works Department			BACKFLOW PREVENTION LEGEND & NOTES	DRAWING NO.
Jim Ashcraft CITY ENGINEER	4/1/96 DATE	3/15/07 REVISED		W-10

NOTE:

PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL OBTAIN FROM THE CITY THE MOST CURRENT DETAILS.



DETAIL C401 — CULVERT PROFILE B

SCALE: N.T.S.

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: PJS
DRAWN: MWK
CHECKED: PJS

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — PAUL J. SCHNEIDER — No. 62498 — Exp. 09/30/19 — CIVIL — STATE OF CALIFORNIA

9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT
PROJECT ENGINEER — DATE

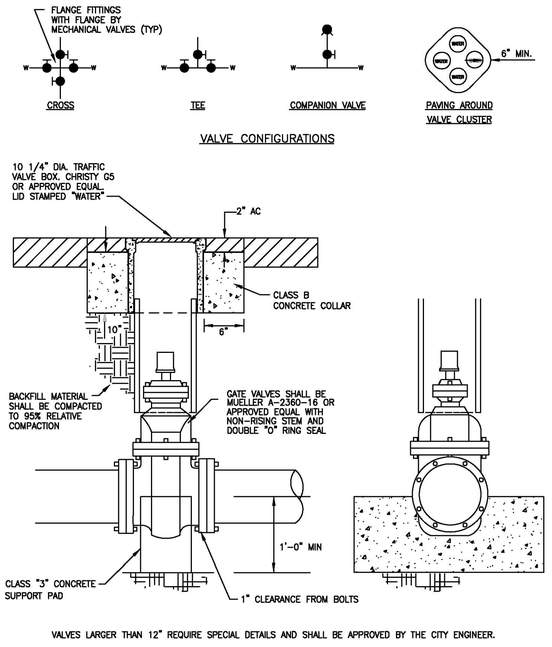
PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

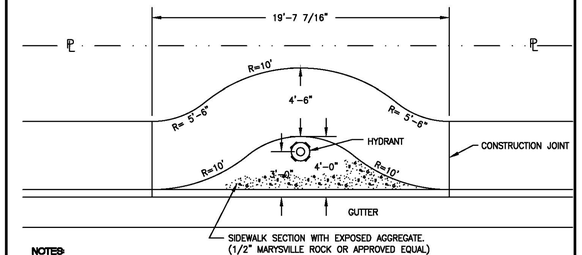
CIVIL DETAILS IV

SCALE: SHOWN
PROJECT NUMBER: 91234011
VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
SHEET CODE: CD-4
SHEET NUMBER: 23 OF 59

DOCUMENT NUMBER: CPP-G-9123-60249

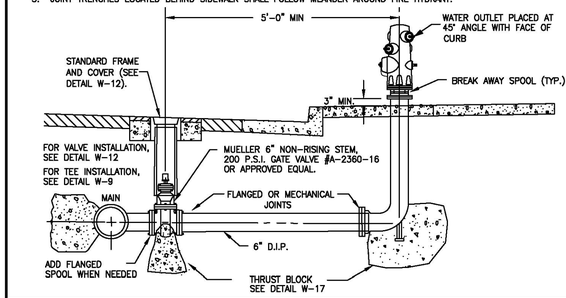


City of Morgan Hill Public Works Department			TYPICAL VALVE INSTALLATION	DRAWING NO.
Jim Ashcraft CITY ENGINEER	4/1/96 DATE	3/15/07 REVISED		W-12

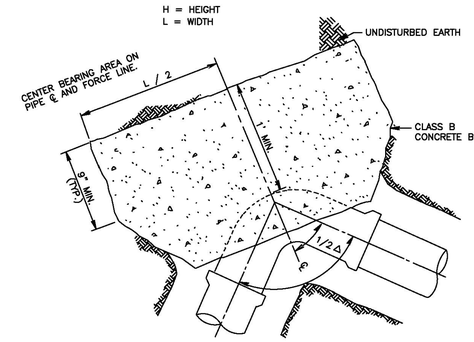


NOTES:

1. FOR COMMERCIAL / INDUSRTIAL APLLICATIONS ONLY, PAINT CURB RED 15' ON BOTH SIDES OF HYDRANT.
2. PLACE BLUE PAVEMENT MARKER IN STREET DIRECTLY ACROSS FROM HYDRANT, SEE DETAIL W-16.
3. HYDRANTS: RESIDENTIAL CLOW VALVE CO. #950 WITH 1-2 1/2" AND 1-4 1/2" OUTLET OR APPROVED EQUAL. PAINTED WITH FINISH YELLOW.
   INDUSTRIAL CLOW VALVE CO. #960 WITH 2-2 1/2" AND 1-4 1/2" OUTLET OR APPROVED EQUAL. PAINTED WITH FINISH YELLOW.
4. CENTER OF HYDRANT TO FACE OF CURB SHALL BE 3' FOR ATTACHED SIDEWALKS WITH MEANDER AND DETACHED SIDEWALK CONFIGURATIONS (ATTCHED SIDEWALK WITH MEANDER SHOWN). FOR ATTACHED SIDEWALK WITHOUT SIDEWALK MEANDER SEE DETAIL W-14.
5. JOINT TRENCHES LOCATED BEHIND SIDEWALK SHALL FOLLOW MEANDER AROUND FIRE HYDRANT.



City of Morgan Hill Public Works Department			HYDRANT INSTALLATION AND LOCATION (with SIDEWALK MEANDER)	DRAWING NO.
Jim Ashcraft CITY ENGINEER	4/1/96 DATE	3/15/07 REVISED		W-13

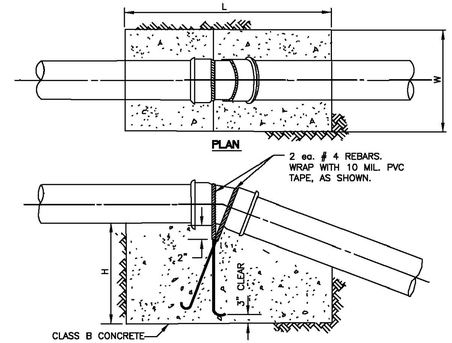


NOTES:

1. CONCRETE SHALL BE KEPT CLEAR OF FLANGES, NUTS, AND BOLTS.
2. CENTER OF H COINCIDES WITH CENTERLINE OF PIPE.
3. "MEGA-LUG" (OR APPROVED EQUAL) TYPE GLANDS AND FASTENERS MAY BE USED BUT SHALL NOT BE USED AS A REPLACEMENT FOR THE USE OF THRUST BLOCKS.

PIPE SIZE	DIMENSIONS – L x H (200 PSI TEST) 11 1/4°	22 1/2°	45°	90°
4"-6"	1'0" x 1'0"	1'5" x 1'5"	1'9" x 1'9"	2'3" x 2'3"
8"	1'0" x 1'0"	1'5" x 1'5"	2'0" x 2'0"	2'10" x 2'10"
10"	1'5" x 1'5"	2'0" x 2'0"	2'8" x 2'8"	3'5" x 3'5"
12"	1'9" x 1'9"	2'3" x 2'3"	3'0" x 3'0"	4'2" x 4'2"
14"	1'9" x 1'9"	2'8" x 2'8"	3'6" x 3'6"	4'10" x 4'10"
16"	2'0" x 2'0"	2'10" x 2'10"	4'0" x 4'0"	5'5" x 5'5"
18"	3'0" x 3'0"	4'0" x 4'0"	5'0" x 5'0"	6'6" x 6'6"

City of Morgan Hill Public Works Department			ELBOW THRUST BLOCK HORIZONTAL AND DOWNWARD THRUSTS	DRAWING NO.
Jim Ashcraft CITY ENGINEER	4/1/96 DATE	____ REVISED		W-17



NOTES:

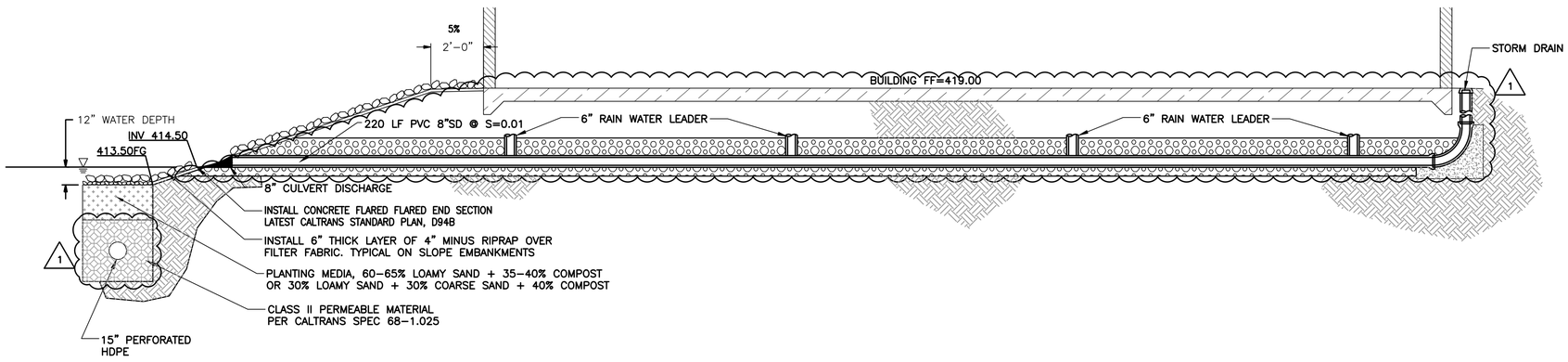
1. CONCRETE SHALL BE KEPT CLEAR OF FLANGES, NUTS & BOLTS.
2. "MEGA-LUG" (OR APPROVED EQUAL) TYPE GLANDS AND FASTENERS MAY BE USED BUT SHALL NOT BE USED AS A REPLACEMENT FOR THE USE OF THRUST BLOCKS.

DIMENSIONS (150 PSI TEST)

PIPE SIZE	11 1/4° BEND L	W	H	22 1/2° BEND L	W	H	45° BEND L	W	H
6"	2'0"	2'0"	1'0"	2'0"	2'0"	2'0"	2'0"	2'0"	2'0"
8"	2'0"	2'0"	1'0"	2'0"	3'0"	2'0"	2'0"	4'0"	2'0"
10"	2'0"	3'0"	2'0"	2'0"	4'0"	2'0"	2'0"	4'0"	3'0"
12"	2'0"	3'0"	2'0"	2'0"	6'0"	2'0"	2'0"	6'6"	3'0"
18"	3'0"	3'0"	3'0"	3'0"	6'0"	3'0"	3'0"	5'0"	5'0"

City of Morgan Hill Public Works Department			ELBOW THRUST BLOCK UPWARD THRUST	DRAWING NO.
Jim Ashcraft CITY ENGINEER	4/1/96 DATE	____ REVISED		W-18

NOTE:
PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL OBTAIN FROM THE CITY THE MOST CURRENT DETAILS.



DETAIL C501 – CULVERT PROFILE C
SCALE: N.T.S.

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: PJS
DRAWN: MWK
CHECKED: PJS

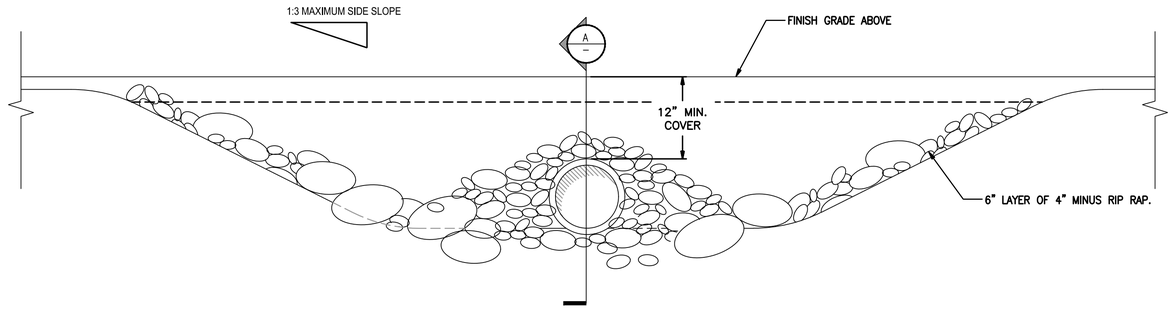
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62498 Exp. 09/30/19 CIVIL STATE OF CALIFORNIA
9/25/2018
ENGINEER

Santa Clara Valley Water District
ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

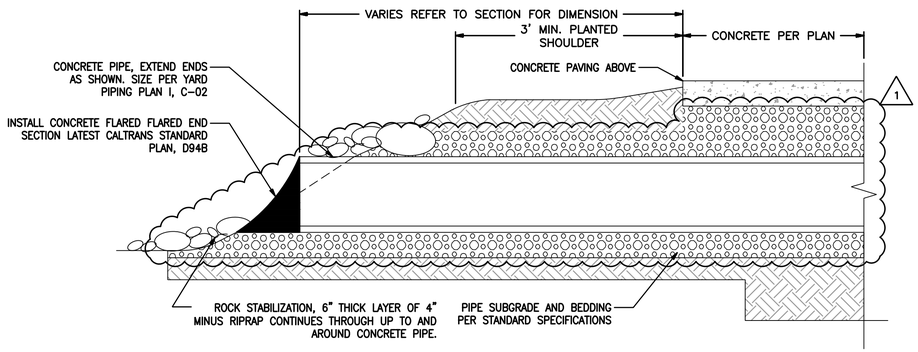
PROJECT NAME AND SHEET DESCRIPTION:
COYOTE WAREHOUSE PROJECT
CIVIL DETAILS V

SCALE: SHOWN
PROJECT NUMBER: 91234011
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
SHEET CODE: CD-5
SHEET NUMBER: 24 OF 59

DOCUMENT NUMBER: CPP-G-9123-60250



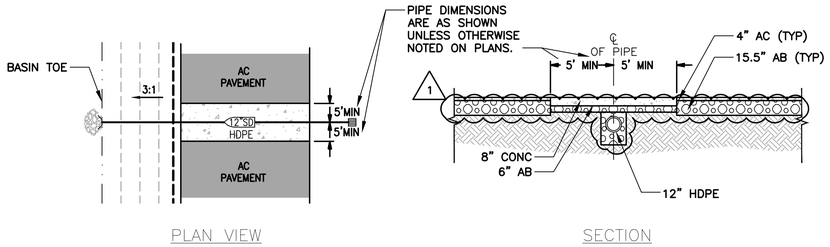
SIDE ELEVATION:



SECTION A:

DETAIL C601 — OUTFALL

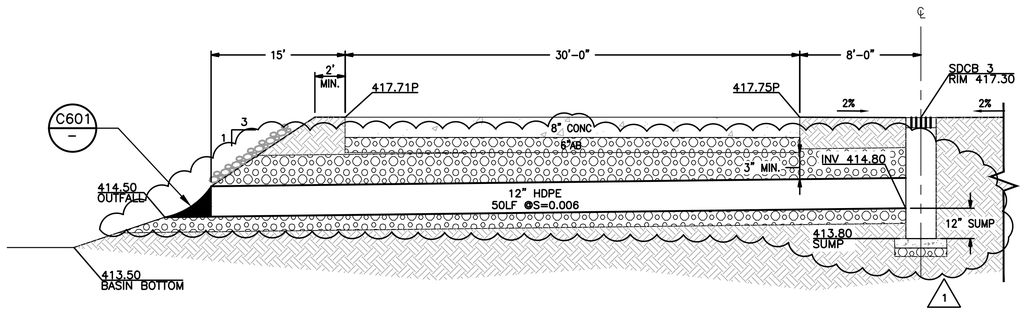
SCALE: N.T.S.



PLAN VIEW SECTION

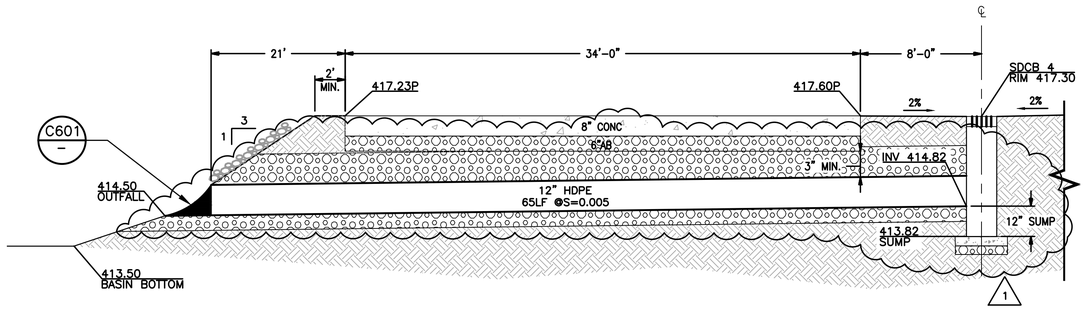
DETAIL C602 — CULVERT CROSSING DETAIL

SCALE: N.T.S.



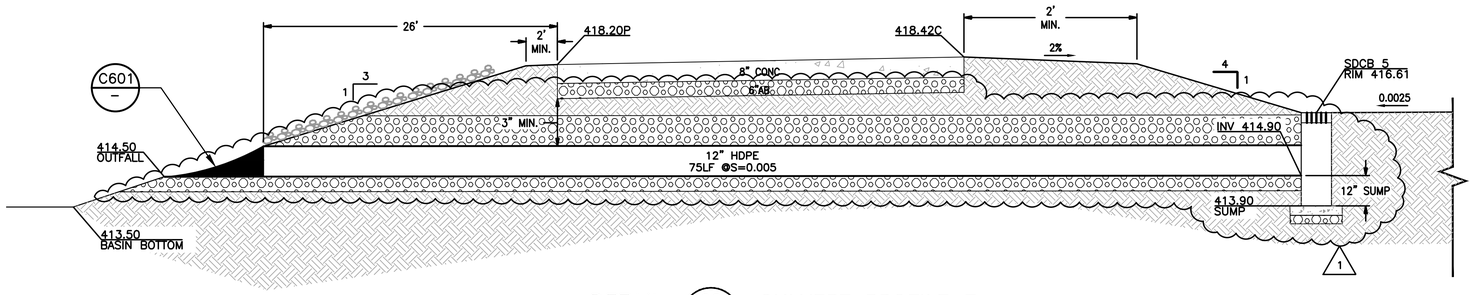
DETAIL C603 — CULVERT PROFILE D

SCALE: N.T.S.



DETAIL C604 — CULVERT PROFILE E

SCALE: N.T.S.



DETAIL C605 — CULVERT PROFILE F

SCALE: N.T.S.

DOCUMENT NUMBER: CPP-G-9123-60251

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: PJS
DRAWN: MWK
CHECKED: PJS

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER — PAUL J. SCHNEIDER — No. 62498 — Exp. 09/30/19 — CIVIL — STATE OF CALIFORNIA

9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

CIVIL DETAILS VI

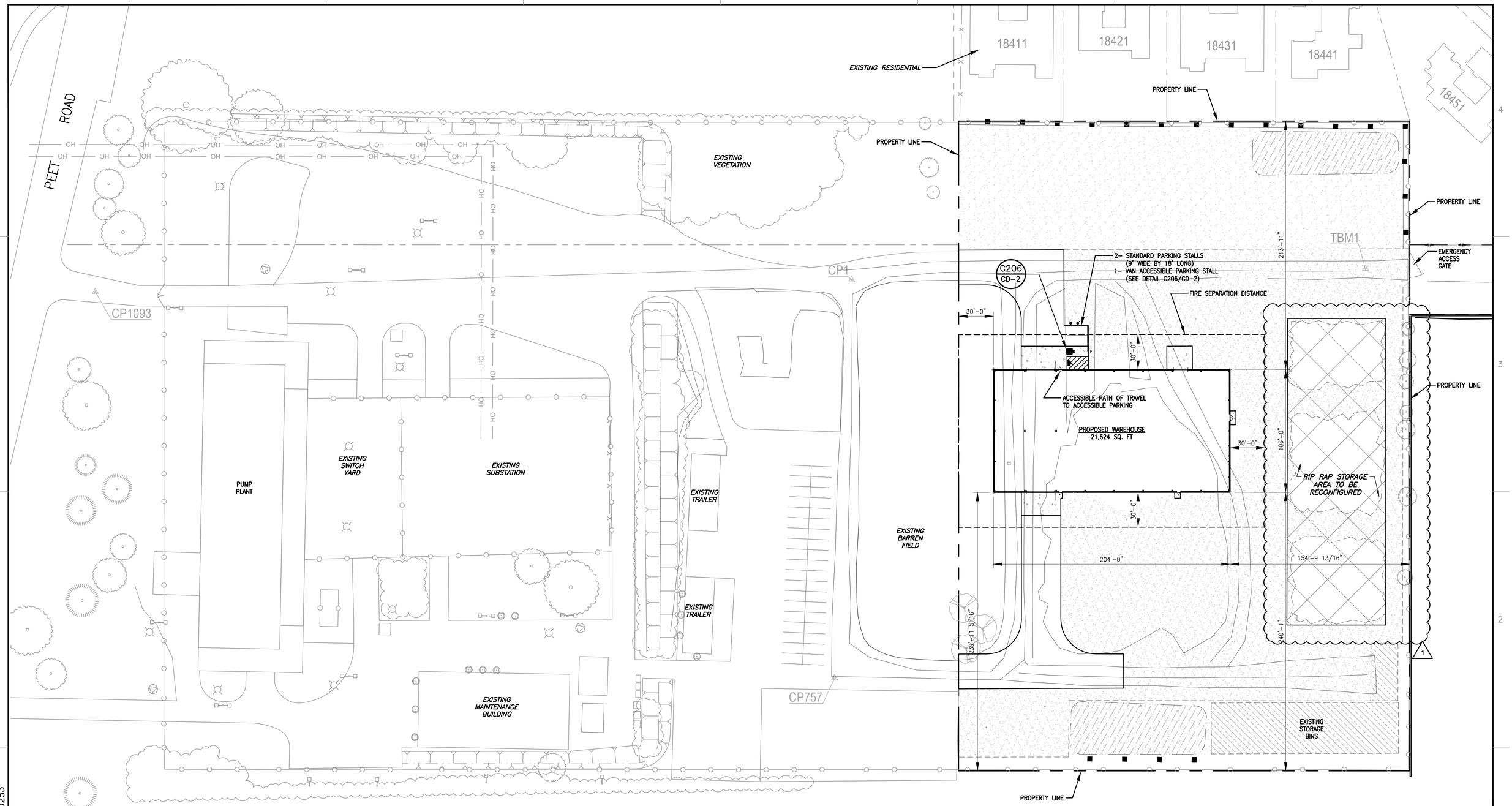
SCALE: SHOWN

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

PROJECT NUMBER: 91234011

SHEET CODE: CD-6

SHEET NUMBER: 25 OF 59



DOCUMENT NUMBER: CPP-G-9123-60253

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: RJN
DRAWN: RJN
CHECKED: PJS

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER ANTHONY J. COSTELLO NO. S-4550 EXP. 12/31/19 STRUCTURAL STATE OF CALIFORNIA

9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT
PROJECT ENGINEER DATE

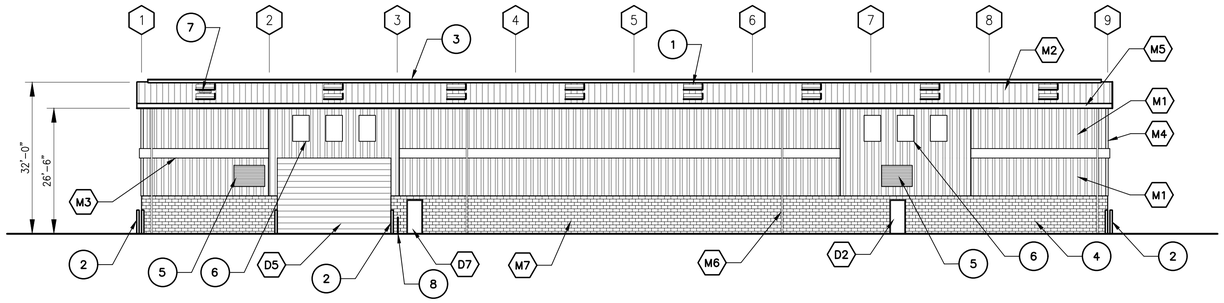
PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

SITE CODE ANALYSIS AND BUILDING IDENTIFICATION

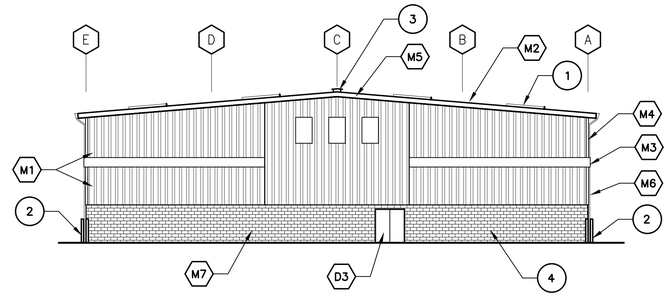
SCALE: SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 91234011
SHEET CODE: GA-02
SHEET NUMBER: 27 OF 59



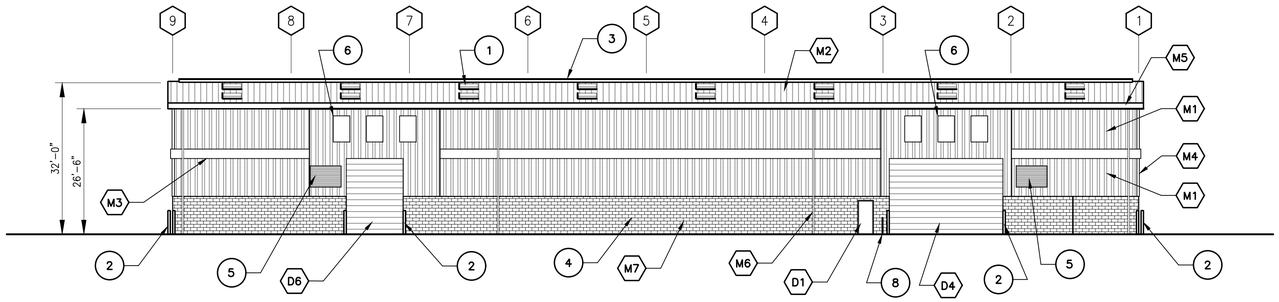
ELEVATION A (A-01) EAST

SCALE: 1/16" = 1'-0"



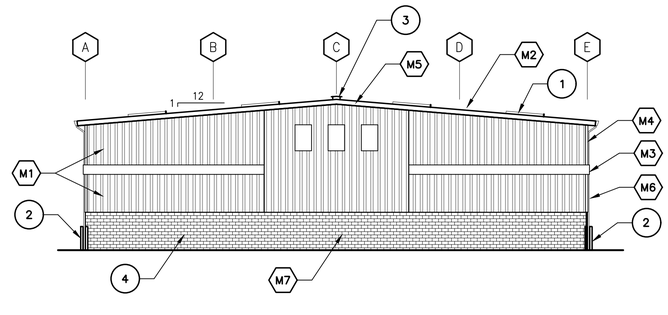
ELEVATION B (A-01) NORTH

SCALE: 1/16" = 1'-0"



ELEVATION C (A-01) WEST

SCALE: 1/16" = 1'-0"



ELEVATION D (A-01) SOUTH

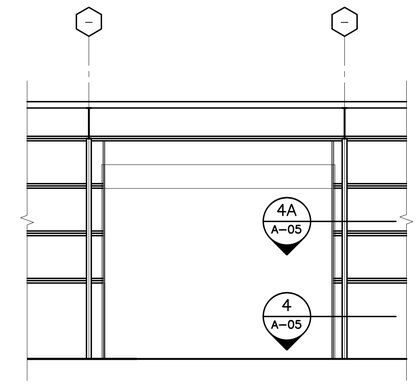
SCALE: 1/16" = 1'-0"

KEY NOTE LEGEND:

1. SKYLIGHTS
2. NEW 5' HIGH, 6" DIAMETER, CONCRETE FILLED, STEEL PIPE BOLLARD – SEE DETAIL 3/S-03
3. CONTINUOUS RIDGE VENT
4. MASONRY WALL CONTROL JOINTS – SEE DETAIL 3/GS-02. MAXIMUM SPACING 24'-0"
5. WALL LOUVERS
6. OPAQUE PANEL
7. ROOF HATCH [DETAIL 5/S-04]
8. GUARD RAILS [DETAIL 8/S-03]

NOTES:

1. REFER TO SHEET A-05 FOR MATERIAL FINISH SCHEDULE



ELEVATION E (A-05) ROLL UP DOOR INTERIOR

SCALE: 1/8" = 1'-0"

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: RJN
DRAWN: RJN
CHECKED: AJL

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER ANTHONY J. LOPRESTI NO. S-4550 EXP. 12/31/19 STRUCTURAL STATE OF CALIFORNIA

9/25/2018

ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

BUILDING ELEVATIONS

SCALE: SHOWN

VERIFY SCALES: 0 1"

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

PROJECT NUMBER: 91234011

SHEET CODE: A-02

SHEET NUMBER: 30 OF 59

DOCUMENT NUMBER: CPP-G-9123-60256

MATERIAL FINISH SCHEDULE

METAL BUILDING					DOORS ~~EXTERIOR FACE~~				COMMENTS
DESIGNATION	MATERIAL	FINISH	COLOR	APPLICATION	DESIGNATION	FINISH	COLOR	APPLICATION	
M1	RIBBED WALL PANELS	PAINT	P-1	FACTORY	D1	PAINT	P-1	ON SITE	24ga X 1-1/2" RIB HEIGHT WITH BLANKET INSULATION R-19 MIN WITH VAPOR BARRIER THAT MEETS IECC REQUIREMENTS. PANEL MAY BE APPLIED WITH EXPOSED FASTENERS.
M2	RIBBED ROOF PANELS	PAINT	P-2	FACTORY	D2	PAINT	P-1	ON SITE	24ga X 1-1/2" RIB HEIGHT WITH BLANKET INSULATION R-19 MIN WITH VAPOR BARRIER THAT MEETS IECC REQUIREMENTS. DECK MAY BE APPLIED WITH EXPOSED FASTENERS.
M3	HORIZONTAL METAL TRIM	PAINT	P-1	FACTORY	D3	PAINT	P-1	ON SITE	
M4	CORNER METAL TRIM	PAINT	P-1	FACTORY	D4	PAINT	P-1	ON SITE	
M5	METAL GUTTERS & FASCIAS	PAINT	P-2	FACTORY	D5	PAINT	P-1	ON SITE	
M6	METAL DOWNSPOUTS	PAINT	P-1	FACTORY	D6	PAINT	P-1	ON SITE	
M7	CMU WALL	SPLIT FACE BLOCK	M-1	---					

1

COLOR LIST

P-1 VARCO PRUDEN EGYPTIAN WHITE OR APPROVED EQUAL

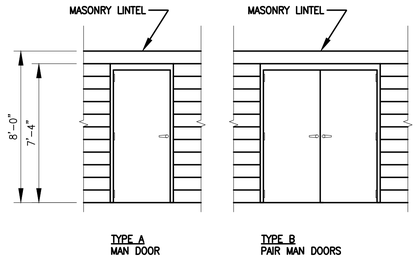
P-2 VARCO PRUDEN COLONIAL RED OR APPROVED EQUAL

M-1 BASALITE MEDIUM WT. COLOR #457 OR APPROVED EQUAL

DOOR AND HARDWARE SCHEDULE

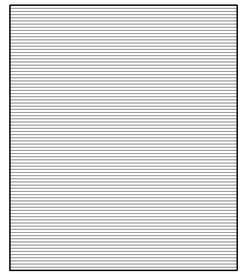
DOOR NO.	DOOR SIZE	FIRE RATING	DOOR				FRAME			HARDWARE				COMMENTS
			TYPE	MATERIAL	CORE	FACE	HEAD/JAMB	MATERIAL	PROFILE	HINGE	LOCK	CLOSER	THRESHOLD	
D1	3'-0" x 7'-0"	--	A	18ga STEEL	HOLLOW	FLUSH	2/A-05 HEAD 3/A-05 JAMB	16ga STEEL	RABBET	MORTISE	*PANIC	**YES	1/A-05 THRESHOLD	
D2	3'-0" x 7'-0"	--	A	18ga STEEL	HOLLOW	FLUSH	2/A-05 HEAD 3/A-05 JAMB	16ga STEEL	RABBET	MORTISE	*PANIC	**YES	1/A-05 THRESHOLD	
D3	PAIR 3'-0" x 7'-0"	--	B	18ga STEEL	HOLLOW	FLUSH	2/A-05 HEAD 3/A-05 JAMB	16ga STEEL	RABBET	MORTISE	*PANIC	NONE	1/A-05 THRESHOLD	
D4	24' x 18'	--	C	STEEL	--	--	4/A-05 JAMB	---	--	--	***KEY LOCK	POWER OPERATOR	7/S-03 FORM	
D5	24' x 18'	--	C	STEEL	--	--	4/A-05 JAMB	---	--	--	***KEY LOCK	POWER OPERATOR	7/S-03 FORM	
D6	12' x 14'	--	C	STEEL	--	--	4/A-05 JAMB	---	--	--	***KEY LOCK	POWER OPERATOR	7/S-03 FORM	
D7	3'-0" x 7'-0"	--	A	18ga STEEL	HOLLOW	FLUSH	2/A-05 HEAD 3/A-05 JAMB	16ga STEEL	RABBET	MORTISE	*PANIC	**YES	1/A-05 THRESHOLD	

DOOR TYPES



TYPE A MAN DOOR

TYPE B PAIR MAN DOORS



TYPE C ROLL UP OVERHEAD DOOR

NOTES:

1. SEE MATERIAL FINISH SCHEDULE THIS SHEET FOR DOOR FINISHES AND COLORS

*PANIC HARDWARE

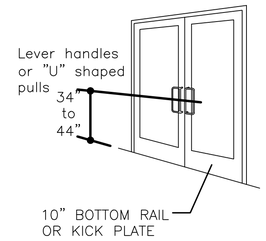
STANLEY SECURITY APEX 2100 & SCHLAGE 6 PIN E KEYWAY LEVER LOCK AT EXTERIOR OR APPROVED EQUAL

**CLOSER

STANLEY SECURITY D-3550 OR APPROVED EQUAL

***ROLL UP HARDWARE

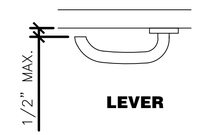
OVERHEAD DOOR COMPANY LOCK KIT W/ HURD OUTSIDE LOCK



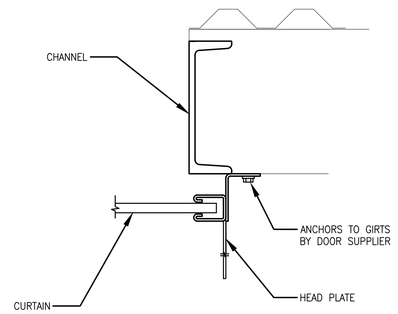
DOORS & DOOR HARDWARE

1. Every required exit door shall be 36" wide x 6'-8" high minimum.
2. Exit doors shall be able to open at least 90 degrees and the clear width shall not be less than 32".

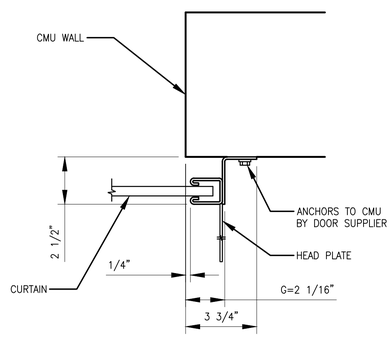
DOOR OPENING EFFORTS:
Exterior Doors: 5 lbf max.
Interior Doors: 5 lbf max.
Fire Doors: 15 lbf max.



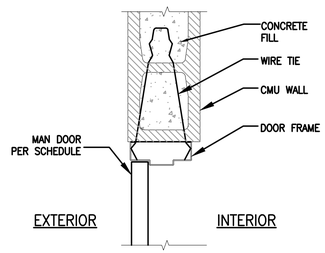
3. Every required exit door shall have a tactile exit sign that complies with CBC 703.1.
4. The lever of lever actuated latches or locks shall be curved with a return to within 1/2" of the door ans shall be easy to grasp with one hand and not require tight grasping , tight pinching or twisting of the wrist to operate.



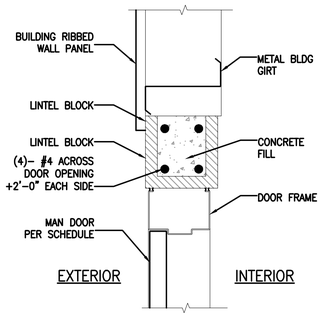
DETAIL 4A – ROLL UP DOOR FRAME CONN.
SCALE: 3" = 1'-0"



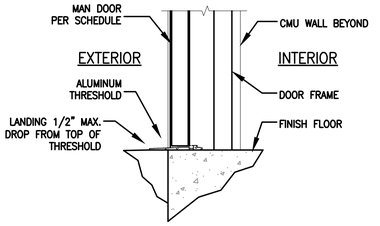
DETAIL 4 – ROLL UP DOOR FRAME CONN.
SCALE: 3" = 1'-0"



DETAIL 3 – JAMB
SCALE: 1 1/2" = 1'-0"



DETAIL 2 – HEAD
SCALE: 1 1/2" = 1'-0"



DETAIL 1 – THRESHOLD
SCALE: 1 1/2" = 1'-0"

DOCUMENT NUMBER: CPP-G-9123-60259

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

SIEGFRIED
3244 Brookside Road, Suite 100
Stockton,California 95219
209-943-2021
www.siegfriedeng.com

DATE: SEPT. 2018
DESIGN: RJN
DRAWN: RJN
CHECKED: AJL

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER ANTHONY J. COATES NO. S-4550 EXP. 12/31/19 STRUCTURAL STATE OF CALIFORNIA

9/25/2018
ENGINEER

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

PROJECT NAME AND SHEET DESCRIPTION:

COYOTE WAREHOUSE PROJECT

SCHEDULES & DOOR DETAILS

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

PROJECT NUMBER: 91234011
SHEET CODE: A-05
SHEET NUMBER: 33 OF 59

STORM DRAIN PIPING SIZING CHART

LOCATION OF BUILDING	SANTA CLARA, CA		
MAXIMUM RAINFALL RATE	2"/HR		
ROOF DRAIN SIZE (IN INCHES) REQUIRED	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREA FOR ROOF DRAIN, LEADERS & VERTICAL RAINWATER PIPING	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREA FOR HORIZONTAL RAINWATER PIPING (SLOPE : 1/8" = 1'-0")	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREA FOR GUTTERS (SLOPE : 1/8" = 1'-0")
2"ø	1,440 SQ FT	–	–
3"ø	4,400 SQ FT	1,644 SQ FT	480 SQ FT
4"ø	9,200 SQ FT	3,760 SQ FT	1,020 SQ FT
5"ø	17,300 SQ FT	6,680 SQ FT	1,760 SQ FT
6"ø	27,000 SQ FT	10,700 SQ FT	2,720 SQ FT
8"ø	58,000 SQ FT	23,000 SQ FT	5,600 SQ FT
10"ø	–	41,400 SQ FT	10,200 SQ FT

REFERENCE: 2013 CALIFORNIA PLUMBING CODE, TABLES 1101.7 & 1101.11

GENERAL NOTES

1 PLUMBING CONTRACT DRAWINGS ARE IN PART DIAGRAMMATIC, COVERING THE SCOPE OF WORK AND GENERAL ARRANGEMENT OF THE EQUIPMENT, PIPING, ETC., AND THE APPROXIMATE SIZE OF EQUIPMENT AND MATERIALS. THE CONTRACTOR SHALL FOLLOW THESE DRAWINGS IN LAYING OUT THE PLUMBING WORK. PLUMBING CONTRACTOR SHALL CONSULT GENERAL, SPRINKLER, HAITING/VENTILATING /AIR CONDITIONING CONTRACT AND ELECTRICAL DRAWINGS TO FAMILIARIZE HIMSELF WITH THAT WORK AND TO VERIFY THE SPACES IN WHICH THE PLUMBING WORK WILL BE INSTALLED.

2 BECAUSE OF THE NATURE AND SCALE OF THE DRAWINGS, CERTAIN BASIC PLUMBING ITEMS SUCH AS UNIONS, FITTINGS, ELBOWS, ETC., MAY NOT BE SHOWN. WHERE SUCH ITEMS ARE REQUIRED BY OTHER SECTIONS OF THE SPECIFICATIONS, OR WHERE THEY ARE REQUIRED BY THE NATURE OF THE WORK OR BY CODES AND REGULATIONS, THEY SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER. THE DRAWINGS INDICATE GENERAL LOCATIONS OF PIPING, EQUIPMENT, DUCTWORK AND SIMILAR. THE EXACT LOCATION TO BE DETERMINED BY THE CONTRACTOR TO BEST FIT THE LAYOUT OF THE JOB.

3 ALL EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT, WATER, AND CHEMICAL OR MECHANICAL INJURY OR THEFT. PLUMBING FIXTURES SHALL BE COVERED WITH HEAVY PAPER COVERINGS AFTER INSTALLATION AND SHALL BE THOROUGHLY CLEANED AFTER COMPLETION OF THE PROJECT.

4 ALL MATERIALS SUCH AS VALVES, FITTINGS, PIPING, EQUIPMENT, PUMPS, COILS, ETC., SHALL BE PROPERLY PROTECTED, AND ALL PIPING OPENINGS SHALL BE TEMPORARILY CLOSED BY THE CONTRACTOR FOR THE WORK UNDER HIS CHARGE, ON A DAILY BASIS, AT THE END OF EACH WORKING DAY, SO AS TO PREVENT OBSTRUCTION AND DAMAGE. THE ABOVE REQUIREMENTS ARE MANDATORY.

5 THE CONTRACTOR SHALL SEE THAT ALL MATERIALS, INSTALLATION AND WORKMANSHIP IS PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE CODES, LAWS, OR ORDINANCES OF THE STATE OF CALIFORNIA, AND SANTA CLARA COUNTY AND LOCAL CODES, CITY OF MORGAN HILL LAWS OR ORDINANCES, INCLUDING STATE OR LOCAL BOARD OF HEALTH, FEDERAL AND STATE ENVIRONMENTAL PROTECTION REGULATIONS, STATE ENERGY CODES AND UTILITY REGULATORY AGENCIES.

6 ALL WORK SHALL BE FURTHER PERFORMED IN ACCORDANCE WITH THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE PLUMBING AND BUILDING CODES, NATIONAL ELECTRICAL CODE, THE OCCUPATIONAL SAFETY AND HEALTH ACT, THE AMERICAN GAS ASSOCIATION, AND ALL SUCH OTHER SPECIFIC CODES AS MAY BE REFERRED TO IN THE INDIVIDUAL SECTIONS OF THE SPECIFICATIONS.

7 PIPE SIZES SHOWN ON THE DRAWINGS ARE THE MINIMUM SIZES ALLOWED REGARDLESS OF THE CODE MINIMUM, EXCEPT WHEN THE CODE MINIMUM SIZE IS LARGER THAN THAT SHOWN.

8 THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONTRACT PRINTS ON THE CONSTRUCTION SITE AT ALL TIMES, ON WHICH HE SHALL ACCURATELY RECORD THE ACTUAL INSTALLATION OF ALL PLUMBING WORK. AS WORK PROGRESSES, MARK CHANGES MADE WHETHER RESULTING FROM JOB CONDITIONS, ADDENDA, FORMAL CHANGE ORDERS OR OTHER INSTRUCTIONS ISSUED BY THE ENGINEER.

9 THE PLUMBING CONTRACTOR SHALL INDICATE PROGRESS BY COLORING IN VARIOUS PIPES, FIXTURES, AND ASSOCIATED APPURTENANCES EXACTLY AS THEY ARE ERECTED AND INSTALLED.

10 MARK ALL PIPE SIZES AND LOCATIONS DURING CONSTRUCTION. ALSO, MARK LOCATIONS OF ALL VALVES AND VARIOUS EQUIPMENT, APPARATUS, AND ASSOCIATED APPURTENANCES AS ERECTED WEEKLY DURING CONSTRUCTION.

11 AT THE COMPLETION OF THE JOB THESE PRINTS, INCORPORATING CHANGES, ADDENDA AND ADDED DATA NOTED ON MARKED-UP PRINTS, INCLUDING DIMENSIONED LOCATIONS OF UNDERGROUND PIPING BEYOND LIMITS OF BUILDING, SHALL BE SUBMITTED TO THE ENGINEER FOR FINAL REVIEW AND COMMENT. THE PRINTS WILL BE RETURNED WITH APPROPRIATE COMMENTS AND RECOMMENDATIONS. THESE CORRECTED PRINTS TOGETHER WITH CORRELATED PRINTS INDICATING ALL THE REVISIONS, ADDITIONS AND DELETIONS OF WORK, SHALL FORM THE BASIS FOR PREPARING A SET OF RECORD DRAWINGS.

12 WHERE PIPING, AND OTHER PLUMBING APPURTENANCES PASS THROUGH FIRE PARTITIONS, FIRE WALLS, OR FLOORS, INSTALL A FIRE-STOP THAT PROVIDES AN EFFECTIVE BARRIER AGAINST THE SPREAD OF FIRE, SMOKE AND GASES. FIRE-STOP MATERIAL SHALL BE UL APPROVED, PACKED TIGHT AND COMPLETELY FILL CLEARANCES BETWEEN RACEWAYS AND OPENINGS. FLOOR, EXTERIOR WALL, AND ROOF SEALS SHALL ALSO BE MADE WATERTIGHT AS APPROVED BY THE ADMINISTRATIVE AUTHORITY.

13 ARRANGE AND INSTALL PIPING APPROXIMATELY AS INDICATED, STRAIGHT, PLUMB AND AS DIRECT AS POSSIBLE. FORM RIGHT ANGLES OR PARALLEL LINES WITH BUILDING WALLS. KEEP PIPES CLOSE TO WALLS, PARTITIONS AND CEILINGS, OFFSETTING ONLY WHERE NECESSARY TO FOLLOW WALLS AND AVOID INTERFERENCE WITH OTHER MECHANICAL ITEMS. LOCATE GROUPS OF PIPES PARALLEL TO EACH OTHER; SPACE THEM AT A DISTANCE TO PERMIT ACCESS FOR SERVICING VALVES.

14 PIPING SHALL BE PITCHED TO POINTS OF DRAINAGE WITH CONSTANT UNIFORM SLOPE.

15 INSTALL HORIZONTAL PIPING AS HIGH AS POSSIBLE WITHOUT SAGS OR HUMPS.

16 GRADE DRAINAGE AT UNIFORM SLOPE OF NOT LESS THAN 1/4" PER FOOT TOWARD THE POINT OF DISPOSAL. WHEN APPROVED BY ADMINISTRATIVE AUTHORITY, PIPE SIZE 4" AND LARGER MAY HAVE A SLOPE OF NOT LESS THAN 1/8" PER FOOT.

17 WHERE CHANGES IN PIPE SIZES OCCUR, USE ONLY REDUCING FITTINGS.

18 FOR DRAINAGE PIPING CHANGES IN DIRECTION, USE LONG SWEEP WHERE POSSIBLE, OTHERWISE, SHORT SWEEP 1/4 BENDS, OR COMBINATION WYE AND 1/8 BENDS; USE SANITARY TEE BRANCHES ONLY FOR HORIZONTAL BRANCHES DISCHARGING TO STACKS.

19 PROVIDE CLEANOUTS WHERE INDICATED AND AT INTERVALS OF 100' OR AS REQUIRED BY LOCAL PLUMBING CODE AND WHERE REQUIRED AT CHANGES OF DIRECTIONS OF SOIL AND WASTE STACKS. INSTALL CLEANOUTS SO AS TO BE ACCESSIBLE FOR EASY REMOVAL AND TO PROVIDE CLEARANCE FOR RODDING. CLEANOUTS SHALL BE THE SAME SIZE AS PIPE SERVED EXCEPT THAT NO CLEANOUT NEED BE LARGER THAN FOUR INCHES.

20 COORDINATE ALL LOCATIONS, SIZES, AND ELEVATIONS OF ALL SLEEVES THROUGH WALLS, BEAMS, SLABS AND FOOTING WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS. ALL PIPES SLEEVING THROUGH FOOTINGS SHALL HAVEA SLEEVE DIAMETER OF TWO PIPE SIZES OVER THE PIPE PASSING THROUGH THE FOOTING. NO PIPE TO BE PLACED THROUGH FOOTING UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

21 PIPE MUST NOT BE IN SOLID CONTACT WITH THE BUILDING STRUCTURE. ISOLATORS CONSISTING OF RESILIENT PIPE SLEEVE ELEMENTS SHOULD BE USED IN CONJUNCTION WITH OR INTERGRAL TO PIPE CLAMPS OR HANGER WHEN SECURING PIPES TO THE STRUCTURE.

22 PENETRATION OF FLOOR/CEILING ASSEMBLIES AND ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE PROTECTED IN ACCORDANCE WITH THE BUILDING CODE.

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
	CW	DOMESTIC COLD WATER
	HW	DOMESTIC HOT WATER
	HWR	DOMESTIC HOT WATER RETURN
	SS	SANITARY SEWER
SS	SS	SANITARY SEWER HUNG PIPE
GW	GW	GREASE WASTE
	V	VENT
	G	NATURAL GAS (LOW PRESSURE)
	MPG	NATURAL GAS (MEDIUM PRESSURE)
	CA	COMPRESSED AIR
CD	CD	CONDENSATE DRAIN
	WHA	WATER HAMMER ARRESTOR
	P.O.C.	POINT-OF-CONNECTION
	UP	PIPE UP
	DN	PIPE DOWN
	DN	PIPE TEE DOWN
	BV	BALL VALVE
	CV	CHECK VALVE
	RED	REDUCER
		PUMP
	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
	HB	HOSE BIBB
	WCO	WALL CLEANOUT
		GAS COCK WITH UNION

MATERIAL SPECIFICATIONS

SERVICES		ABS DWV SCH40	CAST IRON NO HUB	SDR-35 PVC (1)	BLACK STEEL SCH 40	TYPE M COPPER	TYPE L COPPER	TYPE K COPPER	REMARKS
STORM	ABOVE GROUND		•						
	BELOW GROUND			•					

DRAWING SCHEDULE

P0.1	PLUMBING LEGEND, GENERAL NOTES AND SHEET LIST
P2.1	PLUMBING RAIN WATER PLAN AND MECHANICAL VENTILATION PLAN

REV	DESCRIPTION	DATE	APPR.
1	ADDENDUM NO. 1	10/18	

REFERENCE INFORMATION AND NOTES

ACIES ENGINEERING
3371 Olcott Street
Santa Clara, CA 95054
ph: (408) 522-5255
fx: (408) 522-5260
info@acies.net

DATE: FEB 2018
DESIGN: JL
DRAWN: JL
CHECKED: NE

REGISTERED PROFESSIONAL ENGINEER — DANIEL YAU — No.M38083 — Exp. 09/30/18 — MECHANICAL — STATE OF CALIFORNIA

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

COYOTE WAREHOUSE PROJECT

PLUMBING LEGEND, GENERAL NOTES AND SHEET LIST

SCALE: NA

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

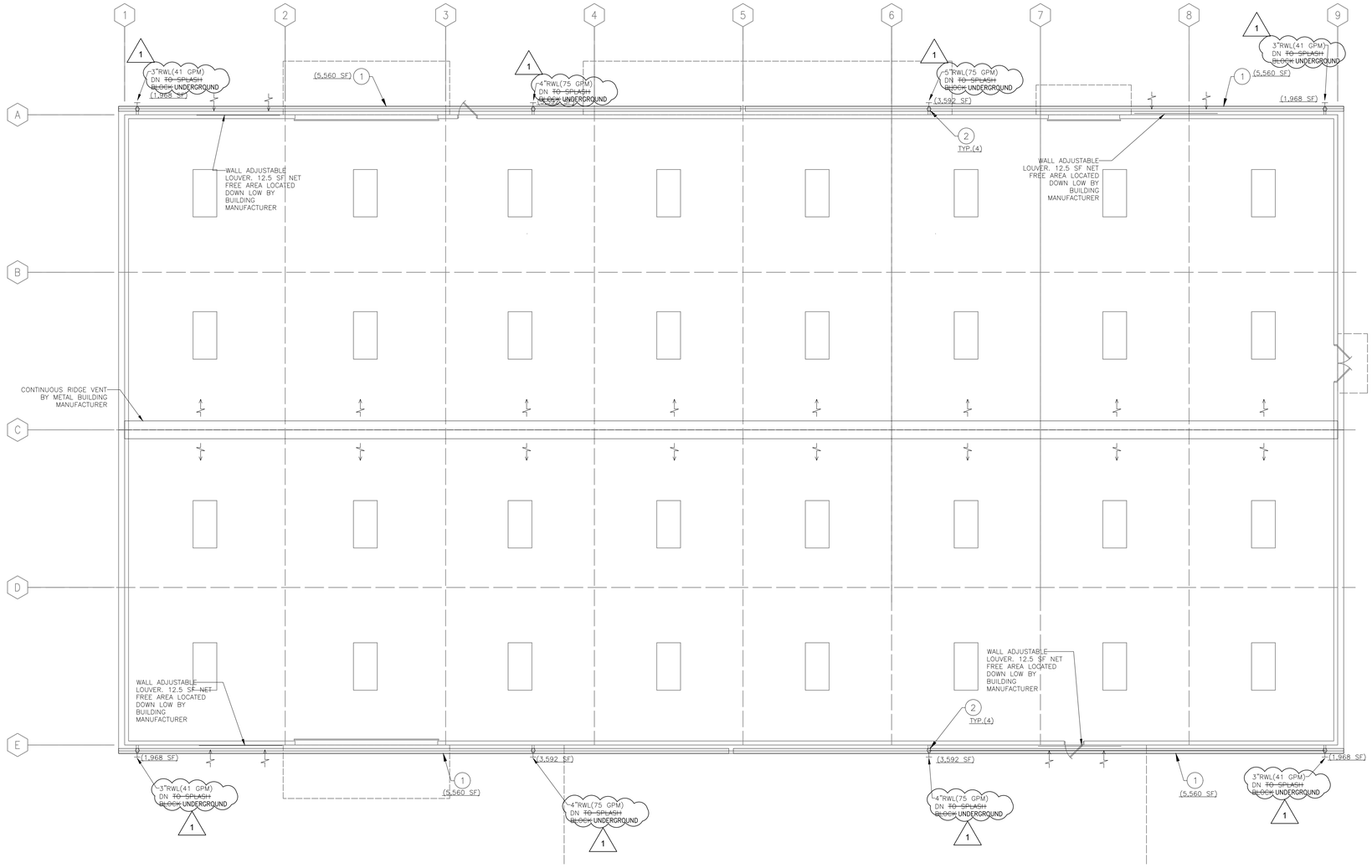
PROJECT NUMBER: 91234011

SHEET CODE: P0.1

PAGE NUMBER: 40 OF 59

DOCUMENT NUMBER: XXX_XX-X-0000-00000

PLAN CHECK #3 02-15-2018



1 MECHANICAL AND PLUMBING PLAN

SCALE: 3/32"=1'-0"

GENERAL NOTE:

1. ALL GUTTERS ARE DOWNSPOUT WILL BE PROVIDE BY METAL BUILDING MANUFACTURER.

PLUMBING KEY NOTES:

(1) GUTTER OUTLINE. GUTTER PROVIDED BY ARCHITECTURAL PLAN AND METAL BUILDING MANUFACTURER. SHOWN FOR REFERENCE ONLY.

(2) DOWNSPOUT PROVIDED BY ARCHITECTURAL PLAN AND METAL BUILDING MANUFACTURER. SHOWN FOR REFERENCE ONLY.

N — TRUE NORTH / PROJECT NORTH

DOCUMENT NUMBER: XXX_XX-X-0000-00000

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
0	–	–	–	

ACIES ENGINEERING
3371 Olcott Street
Santa Clara, CA 95054
ph: (408) 522-5255
fx: (408) 522-5260
info@acies.net

DATE: FEB 2018
DESIGN: JL
DRAWN: JL
CHECKED: NE

REGISTERED PROFESSIONAL ENGINEER — DANIEL FAU — No.M36083 — Exp. 09/30/18 — MECHANICAL — STATE OF CALIFORNIA

Santa Clara Valley Water District

ACCEPTED BY DISTRICT

PROJECT ENGINEER DATE

COYOTE WAREHOUSE PROJECT

PLUMBING RAIN WATER PLAN MECHANICAL VENTILATION PLAN

SCALE: NA

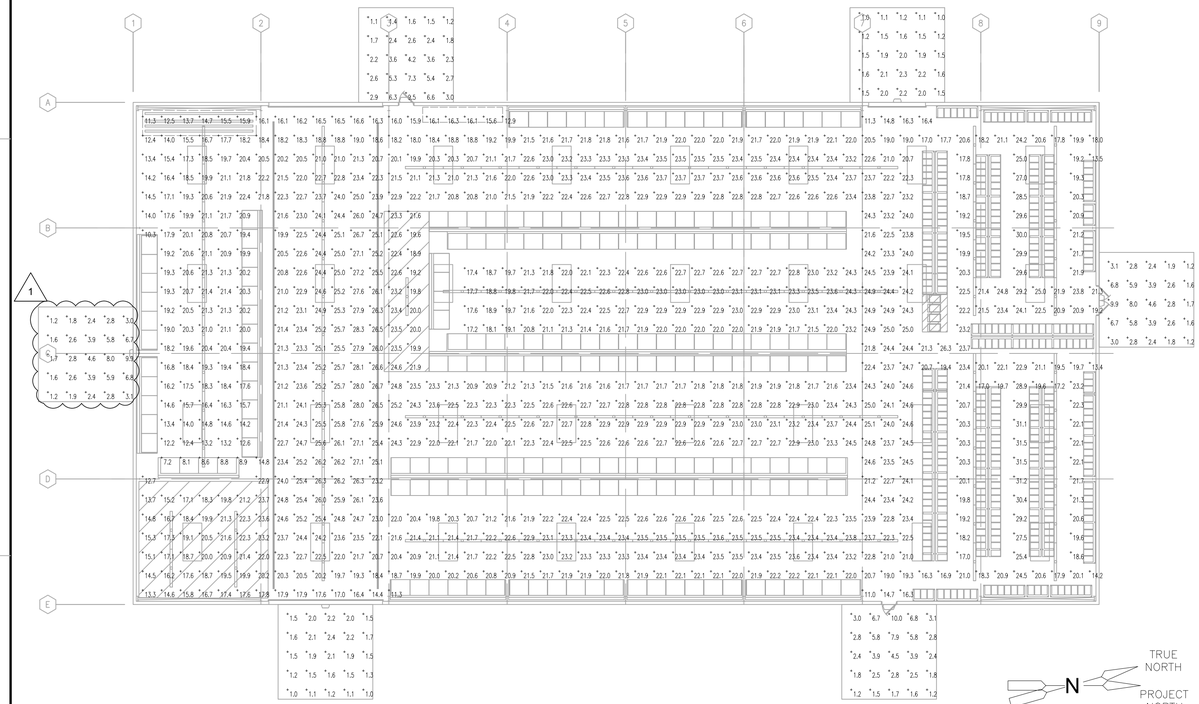
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 91234011

SHEET CODE: P2.1

PAGE NUMBER: 41 OF 59

PLAN CHECK #3 02-15-2018



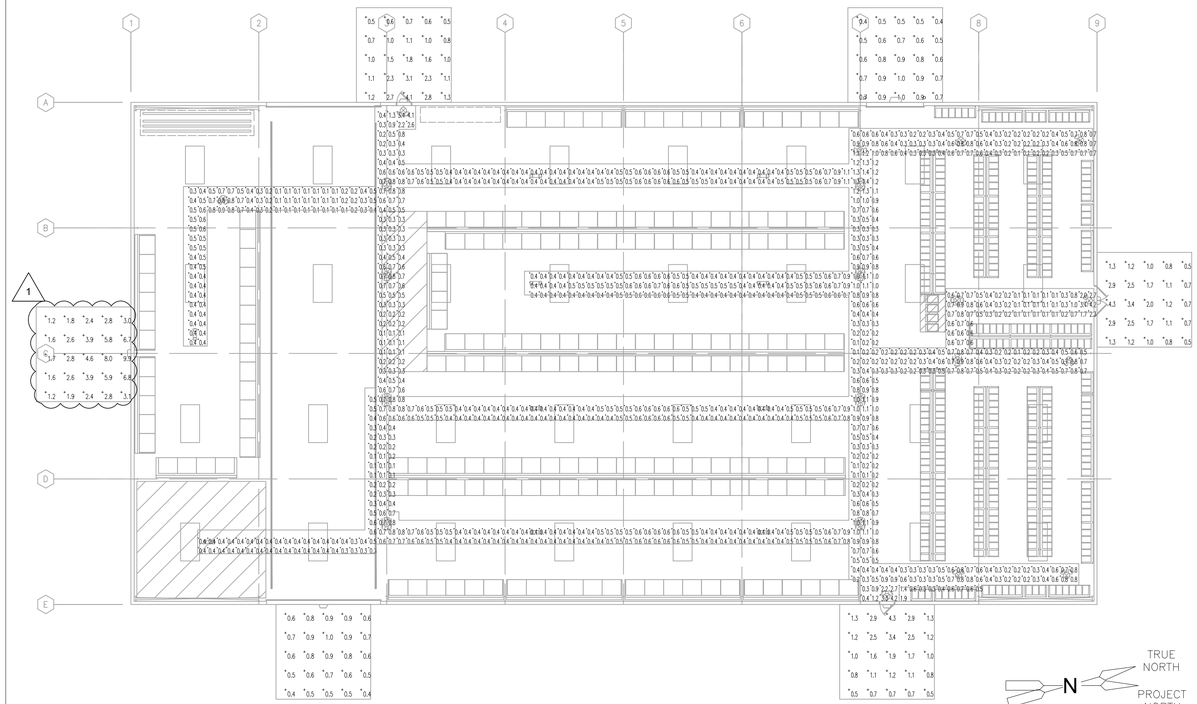
SCHEDULE

SYMBOL	LABEL	QTY	CATALOG NUMBER	DESCRIPTION	LAMP	NO. OF LAMP	LUMENS PER LAMP	LLF	WATTAGE
	A	98	TZL1N L96 10000LM L/LENS MVOLT 40K 90 CRI	TZL1N 96" LENGTH 10,000 LUMENS NO DIFFUSER 4000 K 90 CRI	LED	1	8637	0.8	83.32
	B	3	ES1-24H-MV-NW-FT-XX-350	LED WALL SCONCE SIZE: 12"L X 16.75"W X 5.5"H		1	3465.76	0.7	29.78

STATISTICS

DESCRIPTION	SYM	AVE	MAX	MIN	MAX/MIN	AVE/MIN
EXTERIOR ZONE #1	+	3.6 FC	9.9 FC	1.2 FC	8.2:1	3.0:1
EXTERIOR ZONE #1	+	3.6 FC	10.0 FC	1.2 FC	8.3:1	3.0:1
EXTERIOR ZONE #1	+	3.5 FC	9.6 FC	1.2 FC	8.0:1	2.9:1
EXTERIOR ZONE #1	+	1.6 FC	2.3 FC	1.0 FC	2.3:1	1.6:1
EXTERIOR ZONE #1	+	1.6 FC	2.4 FC	1.0 FC	2.4:1	1.6:1
INTERIOR ZONE	+	24.0 FC	33.2 FC	8.3 FC	4.0:1	2.9:1

PHOTOMETRIC — SCALE 1/16" = 1'-0" — 2



SCHEDULE

SYMBOL	LABEL	QTY	CATALOG NUMBER	DESCRIPTION	LAMP	NO. OF LAMP	LUMENS PER LAMP	LLF	WATTAGE
	W	3	ES1-24H-MV-NW-FT-XX-350	LED WALL SCONCE SIZE: 12"L X 16.75"W X 5.5"H		1	1485.32	0.3	12
	EX	10	ELM6 LED	ELM6 LED W LP03VS	LED	2	268	0.7	11
	X1	3	LHQM LED	QUANTUM LED EMERGENCY COMBO (ONE HEAD ONLY)	LED	2	ABSOLUTE	0.7	3
	X2	16	LHQM LED	QUANTUM LED EMERGENCY COMBO (ONE HEAD ONLY)	LED	2	ABSOLUTE	0.7	3

STATISTICS

DESCRIPTION	SYM	AVE	MAX	MIN	MAX/MIN	AVE/MIN
EXTERIOR ZONE #1	+	1.6 FC	4.3 FC	0.5 FC	8.6:1	3.2:1
EXTERIOR ZONE #1	+	1.6 FC	4.3 FC	0.5 FC	8.6:1	3.2:1
EXTERIOR ZONE #1	+	1.5 FC	4.1 FC	0.5 FC	8.2:1	3.0:1
EXTERIOR ZONE #1	+	0.7 FC	1.0 FC	0.4 FC	2.5:1	1.8:1
EXTERIOR ZONE #1	+	0.7 FC	1.0 FC	0.4 FC	2.5:1	1.8:1
INTERIOR EGRESS	+	0.5 FC	4.2 FC	0.1 FC	42.0:1	5.0:1

EMERGENCY PHOTOMETRIC — SCALE 1/16" = 1'-0" — 1

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
1	ADDENDUM NO. 1	10/18		

ACIES ENGINEERING
3371 Olcott Street
Santa Clara, CA 95054
ph: (408) 522-5255
fx: (408) 522-5260
info@acies.net

DATE: SEPT. 2018
DESIGN: NG
DRAWN: NG
CHECKED: NE

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER — NELSON LEE — No.E015418 — Exp. 06/30/19 — ELECTRICAL — STATE OF CALIFORNIA
ENGINEER

Santa Clara Valley Water District SM

ACCEPTED BY DISTRICT
PROJECT ENGINEER — SEPT. 2018 DATE

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE WAREHOUSE PROJECT
ELECTRICAL PHOTOMETRIC PLAN

SCALE: 3/32" = 1'-0"
VERIFY SCALES: 0 — 1" — BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 91234011
SHEET CODE: E7.0
SHEET NUMBER: 50 OF 59

DOCUMENT NUMBER: CPP-G-9123-60276

PEET RD

PUMP PLANT

EXISTING SWITCH YARD

EXISTING SUBSTATION

EXISTING BARREN FIELD

FUTURE BUILDING EXPANSION

ROCK STOCKPILE AREAS

EXISTING MAINT BUILDING

STORAGE BINS

116'±

20'–5"±

38'–2"±

18'–10"±

155'–6"±

38'–11"±

51'–9"±

219'–4"±

68'–8"±

74'–3"±

102'–8"±

24'–11"±

50'–1"±

189'–6"±

32'±

160'±

73'–6"±

49'–4"±

21'–3"±

142'–2"±

128'–8"±

96'–1"±

76'–4"±

SC-02 A

SC-02 A

SEE DET 1, SHEET SC–02

SEE DET 2, SHEET SC–02

SEE DET 3, SHEET SC–02

REMOVE AND REPLACE EXISTING ASPHALT AND AGGREGATE BASE TO DEPTH AS SHOWN ON DET C101, SHEET CD–1

REMOVE AND REPLACE EXISTING ASPHALT AND AGGREGATE BASE TO DEPTH AS SHOWN ON DET C101, SHEET CD–1

NOTES:

1. MATCH EXISTING SURFACES AS APPLICABLE.
2. MAINTAIN 2% MINIMUM SLOPE.

LEGEND

INDICATES DIRECTION OF SURFACE FLOW

PLAN
SCALE: 1" = 40'

DOCUMENT NUMBER: XXXX-X-0000-0000000.00

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #1	11/18	TI
	ADDENDA DRAWING 11-06-18		

REFERENCE INFORMATION AND NOTES
1. REFERENCE SHEET C–01 FOR LEGEND, SURVEY CONTROL.
2. REFER TO SPECIFICATIONS SECTIONS 02300, 02742, 02722 AND 02501. APPROXIMATE RESURFACED AREA = 66,768± SQ FT.
3. AERIAL PHOTO SHOW IS NOT GEOSPATIALLY RECTIFIED, AND IS SHOWN FOR GRAPHICAL REPRESENTATION OF IMPROVEMENTS ONLY.

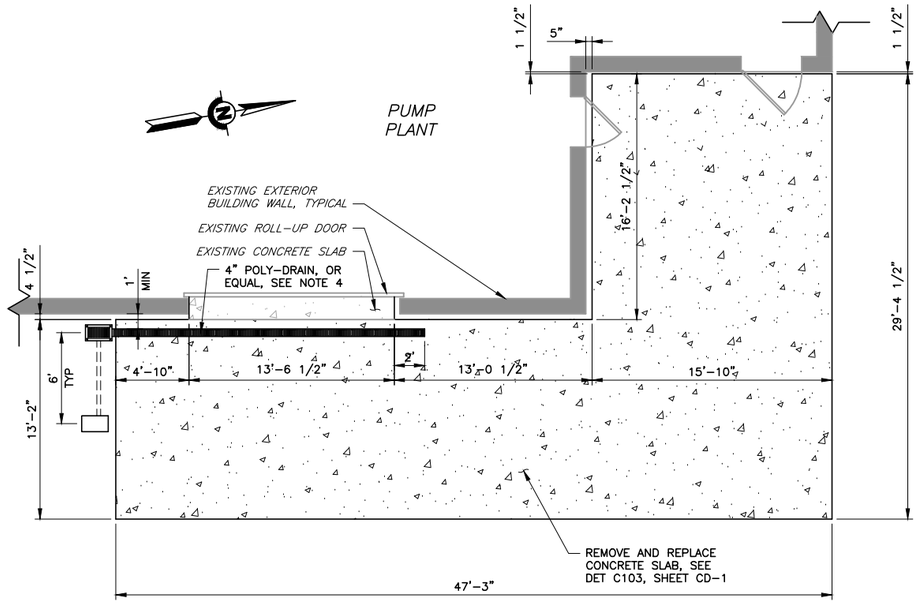
DATE	
11/6/2018	
DESIGN	J. BAUTISTA
DRAWN	J. FORD
CHECKED	J. BAUTISTA

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER EMANUEL ARTEE No. 59383 CIVIL STATE OF CALIFORNIA
11/6/2018
PROJECT ENGINEER 11/6/2018

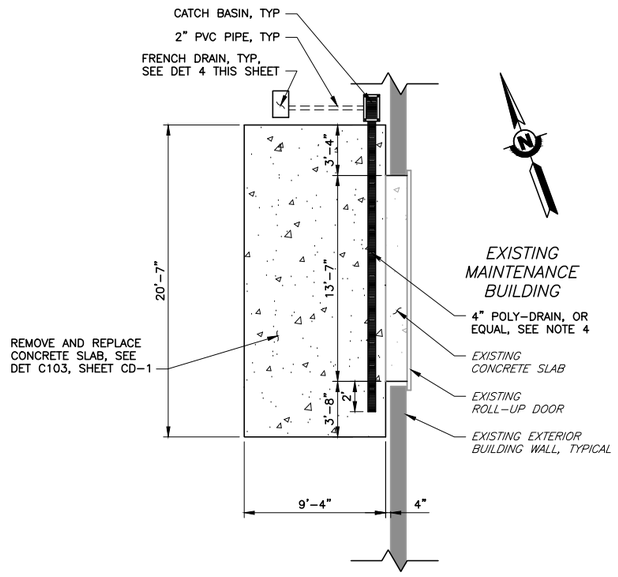
Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE WAREHOUSE PROJECT
ADDITIONAL PAVING SITE LAYOUT AND PLAN

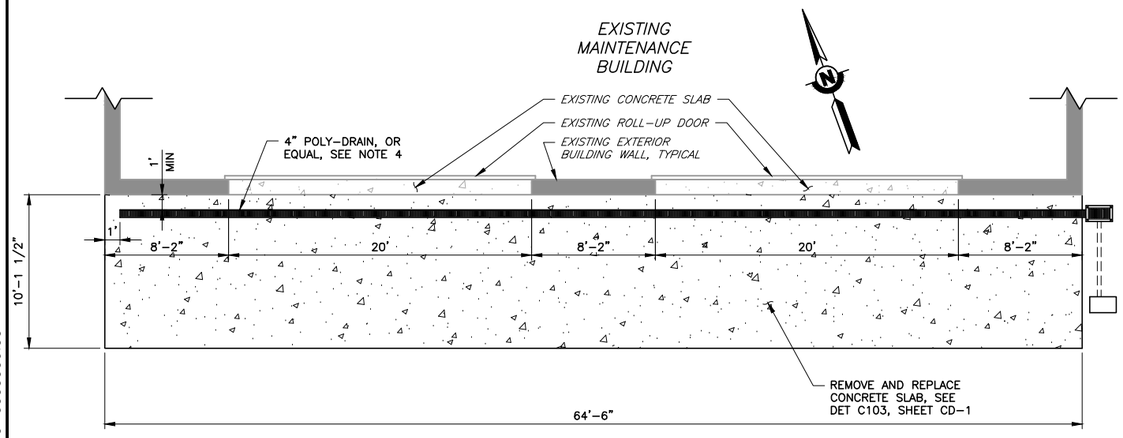
SCALE	PROJECT NUMBER
AS SHOWN	91234010
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: 1 SC–01
	SHEET NUMBER: 60 OF 61



DETAIL 1 / SC-01 CONCRETE APRON
SCALE: 1" = 5'

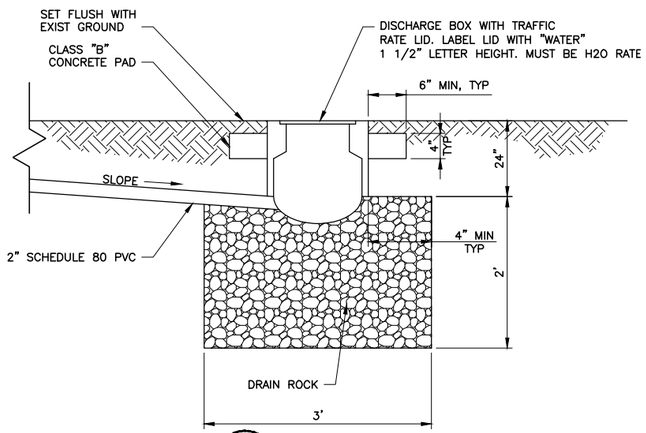


DETAIL 3 / SC-01 CONCRETE APRON
SCALE: 1" = 40'

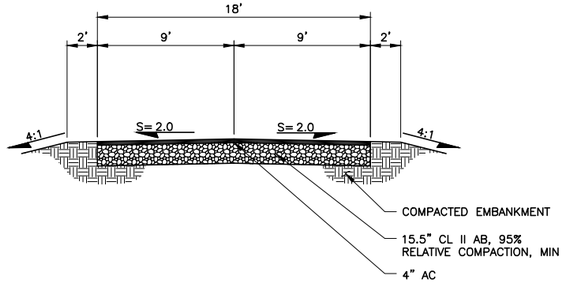


DETAIL 2 / SC-01 CONCRETE APRON
SCALE: 1" = 5'

THE PRECAST DISCHARGE BOX SHALL BE TRAFFIC RATED G12 , 14 1/2" x 19 5/16". UTILITY BOX AS MANUFACTURED BY OLD CASTLE PRODUCTS, OR EQUAL



DETAIL 4 / — FRENCH DRAIN
SCALE: 1" = 1'



TYPICAL SECTION A / SC-01 TYPICAL PAVEMENT SECTION
SCALE: 1" = 5'

REV	DESCRIPTION	DATE	APPR
1	ADDENDUM #1	11/18	TI

ADDENDA DRAWING
11-06-18

REFERENCE INFORMATION AND NOTES
1. CONCRETE SHALL BE SLOPED 2% MINIMUM AWAY FROM DOORS.
2. MATCH EXISTING SURFACES AS APPLICABLE.
3. REFER TO SPECIFICATIONS SECTIONS 02300, 02742, 02722 AND 02501.
4. SEE SECTION 02501 FOR SLOPE OF 4" POLY-DRAIN, OR EQUAL.

DATE 11/7/2018
DESIGN J. BAUTISTA
DRAWN P. KEY
CHECKED J. BAUTISTA

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER EMMANUEL ARTEAGA No. 59383 CIVIL STATE OF CALIFORNIA
11/6/2018
PROJECT ENGINEER 11/7/2018

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
COYOTE WAREHOUSE PROJECT
ADDITIONAL PAVING DETAILS AND SECTION

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 91234010
SHEET CODE: 1 SC-02
SHEET NUMBER: 61 OF 61

ATTACHMENT F

City of Morgan Hill Stormwater Control Plan review comments

SUBMITTAL REVIEW COMMENTS

City of Morgan Hill
100 Edes Court
Morgan Hill, CA 95037
Ph: 408-776-7337

Project Name:	Coyote Warehouse	City Project Number:	

Documents Reviewed: **Stormwater Control Plan for Coyote Warehouse**

Submittal	Date Recd	Docs Dated	Reviewed by	Comments to Applicant Date:	Appl Resp Date
First	**6/29/2017**	**6/7/2017**	**Christian Mercado - Harris & Associates**	**August 31, 2017**	
Second	**3/15/2018**	**3/14/2018**	**Christian Mercado - Harris & Associates**	**April 18, 2018**	
Third	**9/7/2018**	**9/6/2018**	**Christian Mercado - Harris & Associates**	**October 12,2018**	
Fourth					

Instructions to Applicant: This spreadsheet is designed to identify project issues or review comments, and to provide an iterative record of responses from Applicant and City until the comment is 'resolved' to the satisfaction of the City. Subsequent comments should be added below previous comments. Please use this Excel spreadsheet to record your responses, adding the date and initials of the responder in parentheses. Do not make any other modifications to the form. Return spreadsheet with redlined mark-up plan sheets to City.

GENERAL CITY COMMENTS:

Comment ID Number	**Ref.to Doc: Dwg/Spec /General**	**Ref. to: Sheet/ Page/ Section #**	**City Review Comments** *Format: Comment (date; initials)*	**Applicant Response to Comments** *Format: Comment (date; initials)*	**Comment Resolved?** *(for city use)* **Y / N**
1	SCP	Page 2 of 10	Include Assessor's Parcel Number (APN) in the project description. (CM 8/31/2017)	**The APN has been added to the cover page as well as the project description. (3/14/18;PJS)**	**Y**
2	SCP	Page 3 of 10	Under the "Proposed Conditions" on page 3, please describe how stormwater will be collected and conveyed into the bioretention facility. (CM 8/31/2017)	**The description has been augmented to describe how the site water is delivered to the basin via sheet and culvert flow. (3/14/18;PJS)**	**Y**
3	SCP	Page 6 of 10	Provide backup calculations for values shown in Table 3, which show the minimum bioretention facility area required to meet Performance Requirement #2. (CM 8/31/2017)	**According to Table 4 and the Figure 6 of the Morgan Hill Giudance Manual PR 2 is met for a bio-infiltration treatment system with raised underdrain when the impervious tribuitary surface area (A_t) multiplied by 0.04 (.02in/hr divided by 5 in/hr). Given this the minium square footage will be 37,750 x 0.04 = 1510sf. With the presence of the underdrain the surface loading rate is 5 in/hr which is the capacity of the media layer as opposed to the capacity of the native soil. As requested the calculation has been added to the PR 2 section of the report however I wanted to expalin the rational behind the calaculation. (3/14/18;PJS)**	**Y**

Comment ID Number	Ref.to Doc: Dwg/Spec /General	Ref. to: Sheet/ Page/ Section #	City Review Comments *Format: Comment (date; initials)*	Applicant Response to Comments *Format: Comment (date; initials)*	Comment Resolved? *(for city use)* Y / N
4	SCP	Page 6 of 10	Surface loading rate used in calculations shall be the natural infiltration rate of 0.4 inches per hour as stated on page 2. (CM 8/31/2017).	**See notes in comment 2 above for rational behind the use of 5 in/hr. (3/14/18;PJS)**	**Y**
5	SCP	Page 6 of 10	The description of item 9 on Table 4 is cut off by the table viewport. Please adjust table for clarity. (CM 8/31/2017)	**The table has been adjusted to not be cut off. (3/14/18;PJS)**	**Y**
6	SCP	Page 8 of 10	Include a table showing the mitigated pre-project and post-project peak flows for the 2-year and 10-year 24 hour storm events. (CM 8/31/2017)	**Table 10 on page 9 has been added to reflect the moitigated project peak flows for the 5 and 10 year 24 hour events. (3/14/18;PJS)**	**Y**
7	SCP	Page 9 of 10	Per Sheet CD-2, the bioretention system includes a perforated pipe located at the invert of the gravel layer. Therefore, runoff volume will discharge the facility without infiltrating into the native soil. The current design does not comply with PCR's 2-4. The volume required should be calculated below the perforated pipe. (CM 8/31/2017)	**The details and the report have been revised to relfect the 1,665 ft^3 of retention volume being accomodated below the perforated pipe. The detailing was an oversight. (3/14/18;PJS)**	**Y**
8	SCP	Page 9 of 10	Please describe outflow structures used to mitigate the peak flow management performance requirement #4. Include calculations for the outflow structures. (CM 8/31/2017) **Include orifice calculations and stage storage calculation to justify the mitigated post project flows identified in Table 9 of page 9. (CM 4/18/2018)**	**The flow for the project will be restricted from premature outflow by the two catch basins that reside in the bio-infiltration basin. The catch basin structures sit proud of the bottom of the basin by 12" which will mandate the water pond and infiltrate through the soil media and into the rock retention below the pipe prior to reaching the perforated pipe outfall, thus taking full advantage of the 5,550ft3 of detention volume. (3/14/18;PJS)**	**Y**
9	SCP	Exhibit C	Does the northeastern portion of the property with stockpile and containers also flow to the bioretention facility? Please explain. (CM 8/31/2017) **Include the response to comment provided on 3/14/2018 into Section A of page 2 of the report. (CM 4/16/2018)**	**The entire northeatern portion of the site including the rip rap stockpiles flow into the facility via sheet flow, however the containers are not permanent and the soil under and around them will not be disturbed when removed. (3/14/18;PJS)**	**Y**
10	SCP	Exhibit C	There is no storm drain information shown in Exhibit C. Show storm drain information in DMA map. (CM 8/31/2017)	**The storm drain information has been added to the exhibit as requested. (3/14/18;PJS)**	**Y**

Comment ID Number	Ref.to Doc: Dwg/Spec /General	Ref. to: Sheet/ Page/ Section #	City Review Comments *Format: Comment (date; initials)*	Applicant Response to Comments *Format: Comment (date; initials)*	Comment Resolved? *(for city use)* Y / N
11	SCP	Attachment G	Peak flow calculations refer to the County of San Joaquin design criteria. Please use the Santa Clara County Design criteria for the Flood Control Calculations. (CM 8/31/2017) **The City of Morgan Hill's Flood control standards requires to detain the 25 year storm event in the detention basin with a free board of 25%. Provide calculations to prove that the current basin is sized to detain the 25 year storm event.** **(CM 4/16/2018)**	**The Exhibits have been fixed to use the City of Morgan Hill standard intensities and flow rates. (3/14/18;PJS) The calcualtions and exhibts have been revised to accommodate the 25 year event as requested. The plans have also been revised to raise the outfall pipe to limit the discharge rate. (9/7/18;PJS)**	**Y**
12	SCP	Attachment I, Page 10 of 14	Under "H. Monitoring & Reporting Program", change description to reflect annual inspections due to the City of Morgan Hill on or before May 1st and September 15th. Annual Engineer's certification due September 30th. (CM 8/31/17)	**The changes have been made to the section as requested. (3/14/18;PJS)**	**Y**
13	SCP	Attachment I, Page 10 of 14	Under "VII. BMP Documentation", include that an Engineer's Approval Letter needs to be submitted to the City of Morgan Hill after construction of SCM. (CM 8/31/17)	**Section VII.D Engineer's Approval was added to the section to address the comment. (3/14/18;PJS)**	**Y**
14	SCP	Attachment I	Missing Page 14 of the O & M Plan. (CM 8/31/17)	**Page 15 has been added. (3/14/18;PJS)**	**Y**
15	SCP	Attachment I	Under "Maintenance Requirements", include a statement describing that property owner needs to show proof of continuous maintenance. (CM 8/31/17)	**A stetement has been added to Section VII.A. (3/14/18;PJS)**	**Y**
16	SCP	Attachment I	Include an inspection form to be used and submitted annually to the City of Morgan Hill. (CM 8/31/17)	**The maintinace and inspection schedule on page 12 is the inspection form. It has areas where the notes and initials need to be added during monthly inspections. (3/14/18;PJS)**	**Y**
17	SCP	Attachment I	Include the City of Morgan Hill's Stormwater O&M Agreement. (CM 8/31/17) **The O&M Agreement submitted is not the most current. Please reach out to Samantha Cho with the City of Morgan Hill for copy of the most current City of Morgan Hill's O & M Agreement. Samantha Cho's email is Samantha.Cho@morganhill.ca.gov** **(CM 4/16/2018)** **The current O&M Agreement has been sent with the latest comments.** **(CM 10/12/2018)**	**The City's O&M agreement has been added to the back of Exhibit I as requested. (3/14/18;PJS) Please provide the current version as the City's representative and it will be incorporated into the report. (9/7/18;PJS)**	**N**

Santa Clara Valley Water District

CAPITAL PROGRAM SERVICES
5750 ALMADEN EXPRESSWAY
SAN JOSE, CA 95118-3686
TELEPHONE (408) 630-3004
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.

November 20, 2018

ADDENDUM NO.2
TO CONTRACT DOCUMENTS FOR THE
COYOTE WAREHOUSE PROJECT
Project No. 91234002
Contract No. C0635

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

GENERAL QUESTIONS AND RESPONSES

NO.	QUESTION	RESPONSE
Q2-1.	Will ¾" recycled angular crushed rock be acceptable at the gravel parking?	Recycled material meeting the specification is acceptable. See Article 10.13 of the Standard Provisions and articles 02300, 02315 and 02722 of the technical provisions.
Q2-2.	Are they looking for virgin class-II at the building pad or would recycled class-II be acceptable?	Recycled material meeting the specification is acceptable. See Article 10.13 of the Standard Provisions and articles 02300, 02315 and 02722 of the technical provisions.
Q2-3.	The Irrigation Legend calls for Rain bird ETC-LX up grade for ESP-LX series controller. The Irrigation Legend calls for a flow sensor for use with Rain bird Maxicom site control and ESP-LXD Central Control systems. The Rain bird ESP8LXME irrigation controller already works with the flow sensor and maxicom and ETC -LX software. Is the ETC-LX still required?	The controller must work properly with the flow sensor, central control, Maxicom site control, as well as the ET weather based components. If the controller has been factory installed with the flow smart module and other components, then the upgrade kit may not be required.

NO.	QUESTION	RESPONSE
Q2-4.	The WAUSAU Tile # TF-4206 planter called for on Detail L105 on LD-1 is not available. What other planter is acceptable?	Wausau TF4205 Weatherstone Gray W23 is acceptable.
Q2-5.	I noticed that they are looking to replace a big portion of the existing asphalt per addendum #1. Since this asphalt surrounds one of the existing buildings, would it be safe to assume that this will be done in two phases? Please let me know.	The District does not require the paving to be done in two phases.
Q2-6.	Will the District provide another pre-bid walk through?	No.

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

Katherine Oven

Date: 11/20/2018

Katherine Oven, P.E.
Deputy Operating Officer
Water Utility Capital Division

Enclosures:
1. NONE

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK