

**COASTSIDE COUNTY WATER DISTRICT
HALF MOON BAY, CALIFORNIA**

ADDENDUM NO. 4

DATE OF ISSUE: 1 April 2020

**Contract Documents for
Denniston Culvert Replacement and Paving Project**

To: ALL HOLDERS OF CONTRACT DOCUMENT FOR THE ABOVE REFERENCED PROJECT.

This Addendum forms a part of the Contract Documents and modifies the original Contract Bidding Documents dated March 2020.

Acknowledge receipt of this Addendum on page 3 of the Proposal Section within the Specifications, which has been updated and attached. Failure to do so may subject the prospective bidder to disqualification.

This Addendum consists of Addendum Items 4.001 to 4.005, which amends the Contract Documents and provides additional information for the project. All prospective bidders for the above referenced project are to be aware that the following changes, additions, and/or clarifications shall be included as an integral part of the Contract Documents for the above referenced project, and they are bound by all conditions set forth therein.

Item No.	Bid Document Sheet No. or Section No.	Description of Change or Clarification
4.001	Replace Proposal Section of Specifications with attached	<p>The Following Bid Item Quantities have been updated as follows:</p> <ul style="list-style-type: none"> • Bid Item 6: changed from "1" to "2" • Bid Item 7: changed from "5" to "4" • Bid Item 9: changed from "9,200" to "8,500" • Bid Item 10: changed from "15,000" to "16,100" • Bid Item 11: changed from "24,200" to "24,600" <p>Bid Item 14 – Trench Dam has been added.</p>
4.002	Replace Sheet 2 with attached	<p>Inlet #6 note has been updated from note 2 to note 3.</p> <p>Note 1 has been updated to include trench dam and reference District Standard Detail CC-23.</p> <p>Area of improvements at water treatment plant has been updated.</p>

Item No.	Bid Document Sheet No. or Section No.	Description of Change or Clarification
4.003	Replace Sheet 3 with attached	Area of improvements at water treatment plant has been updated. Grading has been adjusted to include this new area.
4.004	Replace Sheet 4 with attached	Detail 1 has been updated. Detail 3 has been updated to show that drain inlet top shall be an "open grate", rather than "solid or open grate".
4.005	Replace Sheet 5 with attached	District Standard Detail CC-23 has been included.

ENGINEER OF RECORD



G. Michael Vasquez, P.E.



PROPOSAL

TO: Coastsides County Water District

PROJECT TITLE:

Denniston Culvert Replacement and Paving Project

BIDDER'S DECLARATIONS AND AGREEMENTS

The undersigned, hereinafter called the Bidder, hereby proposes to perform all work and to furnish all labor, services, materials (except those specifically described in the Contract Documents as being furnished by the District), tools, equipment, supplies, transportation and all other items and facilities necessary to complete all work for the above-named Project as specified or indicated in the Contract Documents for the price set forth below in this Proposal.

The Bidder has carefully examined all of the Contract Documents for the Project, including the Notice to Contractors, this Proposal and documents submitted together with it, the Contract, the General Conditions, the Special Provisions, the Specifications, the Contract Drawings, and all Addenda. All provisions of the Contract Documents are hereby accepted and all representations and warranties required thereby are hereby affirmed.

The Bidder has by investigation of the site of the work and otherwise satisfied itself as to the nature, scope and location of the work and has fully informed itself as to all conditions and matters which can in any way affect the work or the cost thereof, including quantities of materials and equipment required. The Bidder has exercised its own judgment regarding the interpretation of subsurface information and has utilized all data which it believes pertinent from the District and other sources in arriving at his conclusions.

The Bidder has carefully checked all words and figures inserted in this Proposal and understands that it may not be revoked or withdrawn for 75 days after the date on which Proposals are opened.

CONTRACT EXECUTION AND BONDS

The Bidder agrees that if this Proposal is accepted, it will, within 15 days after having received notice of award, sign and deliver the Contract in the form included in the Contract Documents and will at that time deliver to the District the Performance Bond and Payment Bond required herein.

CERTIFICATES OF INSURANCE

The Bidder agrees that if this Proposal is accepted, it will, within 15 days furnish the District with certificates and/or policies of insurance as specified in the Contract Documents.

START OF CONSTRUCTION AND CONTRACT COMPLETION TIME

The Bidder agrees to begin work within ten (10) days after the effective date of the Notice to Proceed and to complete the work, in all respects, within ninety (90) working days after the effective date of the Notice to Proceed.

LIQUIDATED DAMAGES

If the Bidder is awarded the Contract but fails to complete the work within the Contract time limit set forth above, or as it may be extended as provided in the Contract Documents, Bidder agrees to pay liquidated damages to the District at the rate of Five Hundred Dollars (\$500) per day until the work is completed.

BID PRICE

The Bidder agrees to accept as full payment for the construction of the Project, in accordance with the Contract Documents, the amount computed in accordance with the following prices, which includes all costs for labor, materials, tools, equipment, services, taxes, insurance, overhead, profit, warranty performance and all other costs necessary to perform the work in accordance with the Contract Documents. It is expressly agreed that unit prices are not dependent on the exact quantity

furnished. THE LOWEST RESPONSIVE RESPONSIBLE BIDDER WILL BE BASED ON THE QUOTE RECEIVED FOR THE BASE BID.

(Show prices in both words and figures. In case of a discrepancy, the amount in words has precedence.)

ADDENDA

The Bidder hereby acknowledges that he has received the following attached Addenda Nos.: _____
(Bidder: insert number of each Addendum received and attach copy to this Proposal) and agrees that all Addenda issued are a part of the Contract Documents. The Bidder agrees that this Proposal includes all impacts resulting from these Addenda.

SALES AND USE TAXES

The Bidder agrees that all federal, State and local sales and use taxes are included in the price for the work set forth below.

PROPOSAL (BASE BID PRICES)

Bid Item	Description with Price Amount Written in Words	Price in Figures	Extended Total
1	Remove existing 10" CMP Storm Drain and replace with 12" HDPE, 90 linear feet at the unit price per foot of _____ _____	\$ _____	\$ _____
2	Remove existing 12" CMP Storm Drain and replace with 12" HDPE, 131 linear feet at the unit price per foot of _____ _____	\$ _____	\$ _____

Bid Item	Description with Price Amount Written in Words	Price in Figures	Extended Total
3	Remove existing 15" CMP Storm Drain and replace with 18" HDPE, 75 linear feet at the unit price per foot of _____	\$ _____	\$ _____
4	Remove existing 21" CMP Storm Drain and replace with 24" HDPE, 98 linear feet at the unit price per foot of _____	\$ _____	\$ _____
5	Remove existing vertical CMP manhole and replace with 48-inch pre-cast manhole, 1 each at the price per structure of _____	\$ _____	\$ _____
6	Remove and replace existing inlet structure, 2 each at the price per structure of _____	\$ _____	\$ _____
7	Remove and replace existing flared inlet structure with HDPE, 4 each at the price per structure of _____ _____	\$ _____	\$ _____

Bid Item	Description with Price Amount Written in Words	Price in Figures	Extended Total
8	Remove and replace existing flared outlet structure with HDPE, 5 each at the price per structure of _____ _____	\$ _____	\$ _____
9	Reconstruct, pulverize, grade, and compact Denniston Tank Road, 8,500 square feet at the price per square foot of _____ _____	\$ _____	\$ _____
10	Regrade and compact the roadway around the Water Treatment Plant, 16,100 square feet at the price per square foot of _____ _____	\$ _____	\$ _____
11	Pave Denniston Tank Road and the roadway area around the Water Treatment Plant, 24,600 square feet at the unit price per square foot of _____ _____	\$ _____	\$ _____

Bid Item	Description with Price Amount Written in Words	Price in Figures	Extended Total
12	Install 36" wide valley gutter, 30 lineal feet at the price per lineal foot of _____	\$ _____	\$ _____
13	Install asphalt dike, 210 lineal feet at unit price per lineal foot of _____	\$ _____	\$ _____
14	Install trench dam downstream of storm drain inlet, 6 each at unit price per each of _____ _____	\$ _____	\$ _____
Sum of Extended Totals (Base Bid Price - BASIS OF AWARD)			\$ _____

BID ALTRENATE #1 PRICES

Bid Item	Description with Price Amount Written in Words	Price in Figures	Extended Total
1-A	Remove existing 10" CMP Storm Drain and replace with 12" RCP, 90 linear feet at the unit price per foot of _____	\$ _____	\$ _____
2-A	Remove existing 12" CMP Storm Drain and replace with 12" RCP, 131 linear feet at the unit price per foot of _____	\$ _____	\$ _____
3-A	Remove existing 15" CMP Storm Drain and replace with 18" RCP, 75 linear feet at the unit price per foot of _____	\$ _____	\$ _____
4-A	Remove existing 21" CMP Storm Drain and replace with 24" RCP, 98 linear feet at the unit price per foot of _____	\$ _____	\$ _____
7-A	Remove and replace existing flared inlet structure with reinforced concrete flared inlet structure, 4 each at the price per structure of _____	\$ _____	\$ _____

Bid Item	Description with Price Amount Written in Words	Price in Figures	Extended Total
8-A	Remove and replace existing flared outlet structure with reinforced concrete flared outlet structure, 5 each at the price per structure of _____ _____	\$ _____	\$ _____
Sum of Extended Totals (Bid Alternate #1 Prices)			\$ _____

Pricing for Bid Alternate #1 Items 1-A, 2-A, 3-A, 4-A, 7-A, and 8-A would be substituted for pricing for Base Bid Items 1, 2, 3, 4, 7, and 8, respectively.

BID ITEM DESCRIPTION

Compensation for the work shown and described in the Contract Documents will be at the prices shown in the Proposal, and the Contractor shall furnish all labor, materials, tools, equipment, services, taxes, insurance, overhead, profit, permits, warranty performance, and all other items and facilities necessary to complete the work. Costs for mobilization, securing and fees for permits as required, water pollution control, air pollution control, traffic control, and other overhead costs such as bonds and insurance shall be spread uniformly over the bid items listed below.

Storm Drain (Bid Items 1 to 4)

Consists of removing existing corrugated metal pipe storm drain with inlet and outlet sections and constructing new HDPE storm drains by open trench methods as specified in the Contract Documents. Payment shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to remove existing storm drain with inlet and outlet, install new storm

drain, including furnishing and installing pipe; installing new pipe in the existing pipe alignment, trenching; sheeting and shoring; backfill; restoring the surface to District standards; cleanup; and all appurtenances and work not otherwise itemized but necessary for a complete and fully-functioning installation. Payment will be unit price per foot of pipe along the centerline of the pipe installed complete in place. Payment will be per linear foot, respective of the type and size.

Storm Drain Manhole (Bid Item 5)

Consists of removing existing storm drain manhole and installing new storm drain manhole as specified in the Contract Documents. Payment for storm drain manhole shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to provide per manhole, satisfactorily furnished and installed in place, including removing and disposing of the existing manhole, connecting to the new storm drain and existing storm drain that shall be protected in place as shown in the Contract Documents, and work not otherwise itemized but necessary for a complete and fully-functioning installation. Payment will be made per storm drain manhole removed and installed.

Storm Drain Inlet Structure (Bid Item 6)

Consists of removing existing storm drain inlet structure and installing new storm drain inlet structures as specified in the Contract Documents. Payment for storm drain inlets shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to provide inlet structures satisfactorily furnished and installed in place, including necessary excavation, backfill, grate, and trash rack, as shown in the Contract Documents, and work not otherwise itemized but necessary for a complete and fully-functioning installation. Payment will be made per storm drain inlet structure removed and installed.

HDPE Flared Storm Drain Inlet/Outlet Structures (Bid Item 7 and 8)

Consists of removing existing storm drain inlet/outlet structures and installing new HDPE flared storm drain inlet/outlet structures as specified in the Contract Documents. Payment for fittings shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to provide HDPE inlet/outlet structures satisfactorily furnished and

installed in place, including necessary grading, rip rap, and erosion control as shown in the Contract Documents, and work not otherwise itemized but necessary for a complete and fully-functioning installation. Payment will be made per HPDE storm drain inlet/outlet structure removed and installed.

Denniston Tank Road Reconstruction (Bid Item 9)

Consists of reconstructing Denniston Tank Road as specified in the Contract Documents. Payment for roadway reconstruction shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to reconstruct Denniston Tank Road as shown in the Contract Documents including pulverizing the existing paved roadway to a depth of 8-inches, mixing the pulverized road with cement treatment, compacting to 95% relative compaction, compaction testing, grading the roadway to drain per existing drainage pattern, and all work required to reconstruct the roadway. Payment will be made per square foot of reconstructed roadway.

Regrade and Compact Roadway Around the Water Treatment Plant (Bid Item 10)

Consists of regrading and compacting of the roadway around the water treatment plant as specified in the Contract Documents. Payment for regrading and compacting shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to regrade and compact the area around the water treatment plant as shown in the Contract Documents including all compacting to 95% relative compaction, compaction testing, grading the roadway to drain per existing drainage pattern, and all other work required to regrade and compact the roadway. Payment will be made per square foot of regraded and compacted roadway.

Paving of Roadways (Bid Item 11)

Consists of paving the reconstructed Denniston Tank Road and the regraded and compacted roadway around the water treatment plant as specified in the Contract Documents. Payment for paving shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to pave Denniston Tank Road and the roadway around the water treatment plant as shown in the Contract Documents including installing a 2.5-inch asphalt over

the roadway, and all work required to pave the roadways. Payment will be made per square foot of paved roadway.

Installation of 36" Wide Valley Gutter (Bid Item 12)

Consists of installing 36-inch wide concrete valley gutter as specified in the Contract Documents. Payment for 36-inch valley gutter installation shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to install 36-inch wide concrete valley gutter as shown in the Contract Documents including installing 36-inch wide concrete valley gutter, reinforcing steel, base material, performing earthwork, concrete finishing, and all work required to install the 36-inch wide concrete valley gutter. Payment will be made per linear foot of 36-inch wide concrete valley gutter.

Installation of Asphalt Dike (Bid Item 13)

Consists of installing 6-inch asphalt dike as specified in the Contract Documents. Payment for 6-inch asphalt dike installation shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to install 6-inch asphalt dike as shown in the Contract Documents including installing 6-inch asphalt dike, adhesive, finishing, and all work required to install the 6-inch asphalt dike. Payment will be made per linear foot of 6-inch asphalt dike.

Installation of Trench Dams (Bid Item 14)

Consists of installing trench dams directly downstream of new storm drain inlets as specified in the Contract Documents. Payment for trench dam installation shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to install trench dam as shown in the Contract Documents including trenching, materials, and all work required to install the trench dam downstream of the storm drain inlet per District Standard Detail CC-23. Payment will be made per each trench dam installed.

RCP Storm Drain (Bid Alternate #1 Items 1-A to 4-A)

Consists of substituting RCP for HDPE (Bid Items 1 to 4), including removing existing corrugated metal pipe storm drain and constructing new RCP storm drains by open trench methods as specified in the Contract Documents. Payment shall be deemed full compensation for all labor, materials, equipment and

incidentals necessary to remove existing storm drain, install new storm drain, including furnishing and installing pipe; installing new pipe in the existing pipe alignment, trenching; sheeting and shoring; backfill; restoring the surface to District, and San Mateo County standards; cleanup; and all appurtenances and work not otherwise itemized but necessary for a complete and fully-functioning installation. Payment will be unit price per foot of pipe along the centerline of the pipe installed complete in place. Payment will be per linear foot, respective of the type and size.

Concrete Flared Storm Drain Inlet/Outlet Structures (Bid Alternate #1 Items 7-A and 8-A)

Consists of substituting concrete for HDPE (Bid Items 7 and 8), including removing existing storm drain inlet/outlet structures and installing new concrete flared storm drain inlet/outlet structures as specified in the Contract Documents. Payment for fittings shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to provide per concrete inlet structure satisfactorily furnished and installed in place, including necessary grading, rip rap, and erosion control as shown in the Contract Documents, and work not otherwise itemized but necessary for a complete and fully-functioning installation. Payment will be made per concrete storm drain inlet/outlet structure removed and installed.

SURETY

If the Bidder is awarded the Contract, the surety who will provide the Performance Bond and Payment Bond will be

_____,
whose address is _____
(Street)

(City) (State) (Zip Code)

BIDDER

The name of the Bidder submitting this Proposal is _____. The address to which all communications concerned with this Proposal and the contract shall be sent is _____
(Street)

(City) (State) (Zip Code)

The Bidder's home office address, if different from above, is

(Street) (City) (State) (Zip)

The Bidder's Contractor's License No. is: _____.
The License classification is: _____.
The License expires on _____.

The Bidder declares under penalty of perjury of the laws of the State of California that the foregoing licensing information is true and correct.

SIGNATURE**1. If Sole Owner**

I sign as sole owner of the business named above as Bidder.

Signature of Bidder

Name: _____ Date: _____, 20__.

Business telephone no.: () _____

2. If Partnership

The undersigned certifies that he/she is a general partner in the Partnership named above as Bidder and that he/she has full authority to sign this Proposal on behalf of the Partnership.

Signature of Partner

Name: _____ Date: _____, 20__.

Business telephone no.: () _____.

3. If Corporation

The undersigned certify that they are officers of the Corporation named above as Bidder and have full authority to sign this Proposal on behalf of the Corporation.

Name of Corporation

BY _____ Date: _____, 20__.

Signature

Name: _____

Print

Title: _____

Attest: _____

Secretary

Business telephone no. () _____.

(If person executing on behalf of Corporation is not the President or Vice President, attach evidence of authority to sign on behalf of Corporation.)

4. If Joint Venture

The undersigned certify that they have full authority to sign this Proposal on behalf of the Joint Venture named above as Bidder.

_____ Name of Joint Venture	
BY _____ Signature	BY _____ Signature
Name: _____ Print	Name: _____ Print
Title: _____	Title: _____
Date: _____, 20__	Date: _____, 20__
Business telephone no.: () _____	

(Submit statement explaining the nature of the individual entities which comprise the Joint Venture and evidence of authority of individuals who sign this Proposal to do so on behalf of the Joint Venture.)

LIST OF SUBCONTRACTORS

The Bidder is required to furnish the following information in accordance with the provisions of Sections 4100 to 4114, inclusive of the Public Contract Code of the State of California.

<u>Name Under Which Subcontractor Is Licensed</u>	<u>License Number</u>	<u>Address of Place of Business</u>	<u>Portion of Work To Be Done Under Subcontract</u>
1. _____	_____ _____	_____ _____	_____ _____ _____ _____
2. _____	_____ _____	_____ _____	_____ _____ _____ _____
3. _____	_____ _____	_____ _____	_____ _____ _____ _____
4. _____	_____ _____	_____ _____	_____ _____ _____ _____
5. _____	_____ _____	_____ _____	_____ _____ _____ _____
6. _____	_____ _____	_____ _____	_____ _____ _____ _____
7. _____	_____ _____	_____ _____	_____ _____ _____ _____
8. _____	_____ _____	_____ _____	_____ _____ _____ _____ _____

Do not list alternative subcontractors for the same work.

NON-COLLUSION AFFIDAVIT

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

State of California) _____) ss.
County of _____)

_____, being first duly sworn, deposes and says that he or she is _____ (sole owner, _____ of _____ a partner, president, secretary, etc.) _____, the party making the foregoing bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract or anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly, or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Signature of Representative of Bidder

Subscribed and sworn to before me,
a Notary Public in and for the
State of California, County of _____,
this _____ day of _____,
20__.

Signature of Notary Public

(Seal)

My commission expires _____, 20__.

BID SECURITY FORM

(TO BE USED IF A CHECK, RATHER THAN A
BIDDER'S BOND, ACCOMPANIES PROPOSAL)

Accompanying this Proposal is a cashier's check or certified
check payable to Coastside County Water District (hereinafter
referred to as "District")

for _____ Dollars

(\$ _____) this amount being at least 10 percent of the
total Base Bid amount of the Proposal. This check shall become
the property of the District, and the District shall be entitled
to

its proceeds, if the Bidder's Proposal is accepted by the
District and the Bidder fails to sign and deliver the Contract
and to furnish the required bonds within the time set forth in
the Proposal and other Contract Documents. Otherwise the check
shall be returned to the Bidder at the time set forth in the
Contract Documents.

BIDDER'S BOND

BOND NO. _____

AMOUNT: \$ _____

KNOW ALL MEN BY THESE PRESENTS, that _____

hereinafter called the PRINCIPAL, and _____

_____ ,
a corporation duly organized under the laws of the State of
, having its principal place of business
at _____

_____ ,
in the State of _____, and authorized to do
business in the State of California, hereinafter called the
SURETY, are held and firmly bound unto the Coastside County
Water District, hereinafter called the OBLIGEE, or order in the
sum of

_____ Dollars (\$ _____) (being at
least ten percent (10%) of the total amount of Principal's
proposal) lawful money of the United States, for the payment of
which we bind ourselves, our heirs, executors, administrators,
successors and assigns, jointly and severally, firmly by these
presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

WHEREAS, the PRINCIPAL has submitted its Proposal to the
OBLIGEE, said Proposal, by reference thereto, being hereby made
a part hereof.

NOW, THEREFORE, if said Proposal is rejected, or in the
alternate, if said Proposal is accepted and the PRINCIPAL signs
and delivers a Contract and furnishes a Performance Bond and
Payment Bond, in the form and within the time required by the
Proposal and the Contract Documents, then this obligation shall
become null and void, otherwise the same shall remain in full
force and effect, it being expressly understood and agreed that
the liability of the SURETY for any and all default of the
PRINCIPAL shall be the amount of this obligation as herein
stated.

The SURETY, for value received, hereby agrees that the obligations of said SURETY and its bond shall not be impaired or affected by any extension of the time within which the OBLIGEE may accept such Proposal, and the SURETY hereby waives notice of any such extension.

In the event suit is brought upon this bond by the OBLIGEE and judgment is recovered, the SURETY shall pay, in addition to the sum set forth above, all costs incurred by the OBLIGEE in such suit, including a reasonable attorney's fees, to be fixed by the Court.

Signed this ____ day of _____, 20__.

PRINCIPAL

BY _____

SURETY

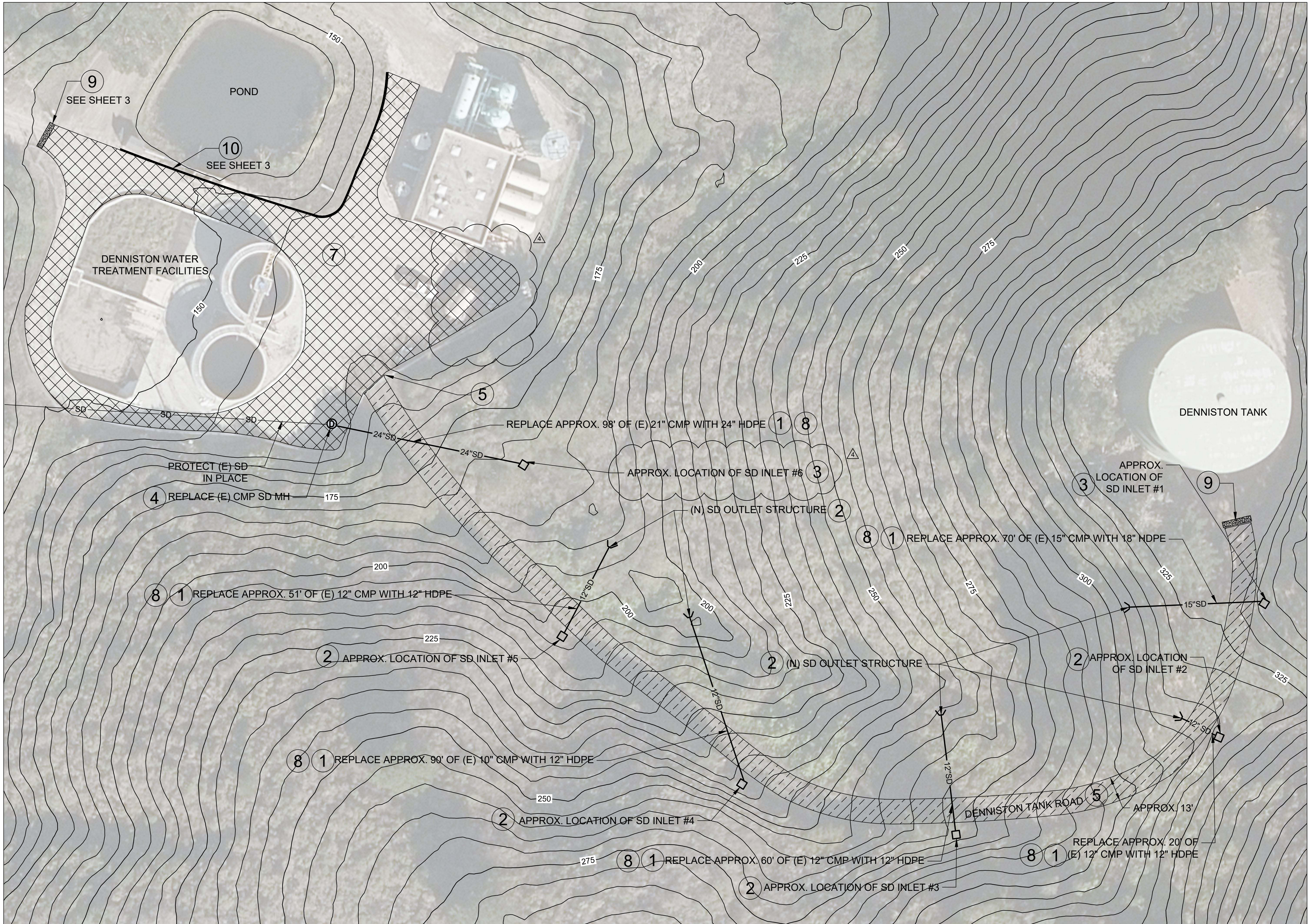
BY _____

Attorney-In-Fact

* * *

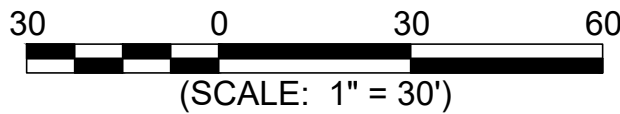
Note: Signature of person executing for SURETY must be notarized and evidence of corporate authority attached.

Path: G:\EKL CONSTRUCTION DWGS\B80108.01 (CIP PROJECTS)\B80108.04 - Plan.dwg Plot Date: April 1, 2020 - 12:21 PM CADD User: Taylor Allen



NOTE: CONTOURS ARE SHOWN FOR REFERENCE ONLY AND ARE OF VARIABLE ACCURACY. SOURCE: 2017 SAN MATEO COUNTY DEM.

DENNISTON TANK ROAD PLAN



CONSTRUCTION NOTES:

1 LOCATION OF (E) SD SYSTEM IS APPROXIMATE. CONTRACTOR SHALL VIF. (E) SD TO BE REMOVED AND (N) SD TO BE PLACED IN THE SAME LOCATION. (N) SD MUST HAVE AT LEAST 3 FEET OF COVER UNDER THE ROADWAY. THE CONTRACTOR SHALL PERFORM TRENCH COMPACTION TESTING AT EACH PIPE ALIGNMENT AT TWO LOCATIONS PER ALIGNMENT AS DESIGNATED BY THE ENGINEER IN THE FIELD. EACH COMPACTION TEST SHALL BE PERFORMED IN THE BACKFILL MATERIAL, AT A TRENCH DEPTH OF ONE FOOT ABOVE THE UPPER BEDDING TRENCH LIMIT. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% RELATIVE COMPACTION. BACKFILL SHALL BE PLACED AT ONE FOOT MAXIMUM LIFT THICKNESS.

(N) PIPE SLOPES SHALL MATCH EXISTING AT A MINIMUM. CONTRACTOR TO COMPLY WITH MODIFIED DISTRICT STANDARD TRENCH DETAILS, SEE $\frac{CC-01}{4}$ FOR PAVED

AREAS, AND DETAIL $\frac{CC-03}{4}$ FOR UNIMPROVED AREAS.

TRENCH DAM SHALL BE INSTALLED DIRECTLY DOWNSTREAM OF STORM DRAIN INLET PER DETAIL $\frac{CC-23}{5}$.

2 LOCATION OF SD INLET/OUTLET SHOWN IS APPROXIMATE, VIF. REMOVE (E) SD INLET/OUTLET FLARE AND REPLACE PER DETAIL $\frac{D94A}{5}$. INSTALL RIP RAP PER DETAIL $\frac{4}{5}$.

3 LOCATION OF SD INLET SHOWN IS APPROXIMATE, VIF. REMOVE AND REPLACE (E) SD INLET PER DETAIL $\frac{3}{4}$.

4 LOCATION OF SD MH SHOWN IS APPROXIMATE, VIF. REMOVE AND REPLACE (E) SD MH PER DETAIL $\frac{2}{4}$. RECONNECT (E) SD TO (N) SD MH.

5 EXTENTS SHOWN ON PLAN OF (E) PAVING FOR DENNISTON TANK ROAD ARE APPROXIMATE. PAVING IS TO BE REPLACED IN THE EXTENTS OF (E) PAVING PER DETAILS $\frac{1}{4}$.

EXISTING ROADWAY SHALL BE PULVERIZED TO A DEPTH OF 8-INCHES, MIXED WITH CEMENT TREATMENT, AND COMPACTED TO 95% RELATIVE COMPACTION. GRADE TO DRAIN PER EXISTING DRAINAGE PATTERN. A 2.5-INCH ASPHALT SECTION SHALL BE PLACED OVER THE COMPACTED, PULVERIZED, AND TREATED SECTION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACHIEVE THE COMPACTION REQUIREMENTS. ALL COMPACTION TESTING SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR. COMPACTION TESTING ON THE ROADWAY SHALL BE PERFORMED EVERY 150 LINEAL FEET ALONG THE CENTER OF THE ROADWAY. FOR EACH TEST LOCATION THE CONTRACTOR SHALL TEST AT THE SURFACE AND AT A DEPTH OF 6 INCHES BELOW THE SURFACE. RETESTING FOR COMPACTION REQUIRED BY A FAILING TEST SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR.

6 CLEAR AND GRUB ROADSIDE DITCHES. REGRADE AS NECESSARY TO MAINTAIN DITCH DRAINAGE.

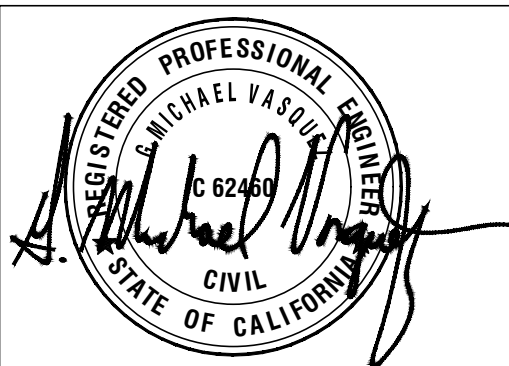
7 SEE SHEET 3 FOR MORE DETAIL ON WATER TREATMENT PLANT AREA.

8 BID ALTERNATE #1 INCLUDES THE REPLACEMENT OF (E) CMP WITH (N) RCP INSTEAD OF HDPE (BASE BID). DESIGN ELEMENTS REGARDING SLOPE AND ELEVATION WILL NOT CHANGE IF RCP IS SELECTED RATHER THAN HDPE.

LOCATION OF SD INLET/OUTLET SHOWN IS APPROXIMATE, VIF. REMOVE (E) SD INLET/OUTLET FLARE AND REPLACE PER DETAIL $\frac{D94B}{5}$. INSTALL RIP RAP PER DETAIL $\frac{4}{5}$.

9 INSTALL 36" WIDE CONCRETE VALLEY GUTTER PER DETAIL $\frac{5}{5}$. SEE SHEET 3. TWO LOCATIONS, EACH APPROXIMATELY 15 LF.

10 INSTALL AC DIKE AROUND POND, TO THE FULL EXTENT OF THE NEW ASPHALT. SEE DETAIL $\frac{6}{5}$. SEE SHEET 3.



FINAL DESIGN SUBMITTAL

DENNISTON CULVERT REPLACEMENT AND PAVING PROJECT COASTSIDE COUNTY WATER DISTRICT DENNISTON TANK ROAD PLAN

DATE	DESIGNED	APPROVED	JOB NO.	REV	DESCRIPTION
FEB 2020	AS SHOWN	TCA	TCA	GMV	ADDENDUM 4
SCALE:	DATE:	DESIGNED:	APPROVED:	JOB NO.:	REV:
1" = 30'	0	0	0	0	0

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

SHEET NUMBER

2

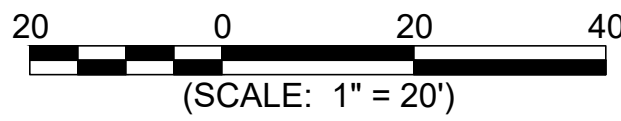
2 OF 6

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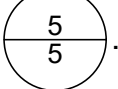
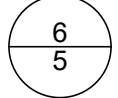


NOTE: CONTOURS ARE SHOWN FOR REFERENCE ONLY AND ARE OF VARIABLE ACCURACY. SOURCE: 2017 SAN MATEO COUNTY DEM.

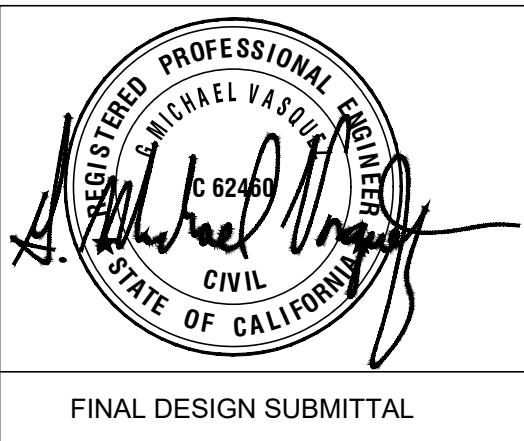
DENNISTON WATER TREATMENT AREA PLAN



CONSTRUCTION NOTES:

- 9 INSTALL 36" WIDE CONCRETE VALLEY GUTTER PER DETAIL 
- 10 INSTALL AC DIKE AROUND POND, TO THE FULL EXTENT OF THE NEW ASPHALT. SEE DETAIL 
- 11 EXTENTS OF PAVING SHOWN ON THE PLAN, AROUND THE WATER TREATMENT FACILITIES IS APPROXIMATE. EXACT LOCATION TO BE VERIFIED IN FIELD BY DISTRICT. CONTRACTOR SHALL VERIFY EXISTING BASE ROCK DEPTH PRIOR TO CONSTRUCTION AND INFORM DISTRICT AND ENGINEER IF THE EXISTING BASE IS LESS THAN 6-INCHES. EXISTING GRAVEL AREA SHALL BE GRADED AND COMPACTED TO 95% RELATIVE COMPACTION. A 2.5-INCH ASPHALT SECTION SHALL BE PLACED OVER THE GRADED AND COMPACTED SECTION. AREA SHALL BE GRADED TO MATCH EXISTING DRAINAGE PATTERNS AS SHOWN. SURFACE CROSS SLOPES SHALL BE A MINIMUM OF 2% AND A MAXIMUM OF 10%, AS NEEDED.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACHIEVE THE COMPACTION REQUIREMENTS. ALL COMPACTION TESTING SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR. COMPACTION TESTING AROUND THE WATER TREATMENT PLANT SHALL BE DIRECTED BY THE DISTRICT IN THE FIELD. CONTRACTOR SHALL TEST UP TO 8 LOCATIONS. FOR EACH TEST LOCATION THE CONTRACTOR SHALL TEST AT THE SURFACE AND AT A DEPTH OF 4 INCHES BELOW THE SURFACE. RETESTING FOR COMPACTION REQUIRED BY A FAILING TEST SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR.

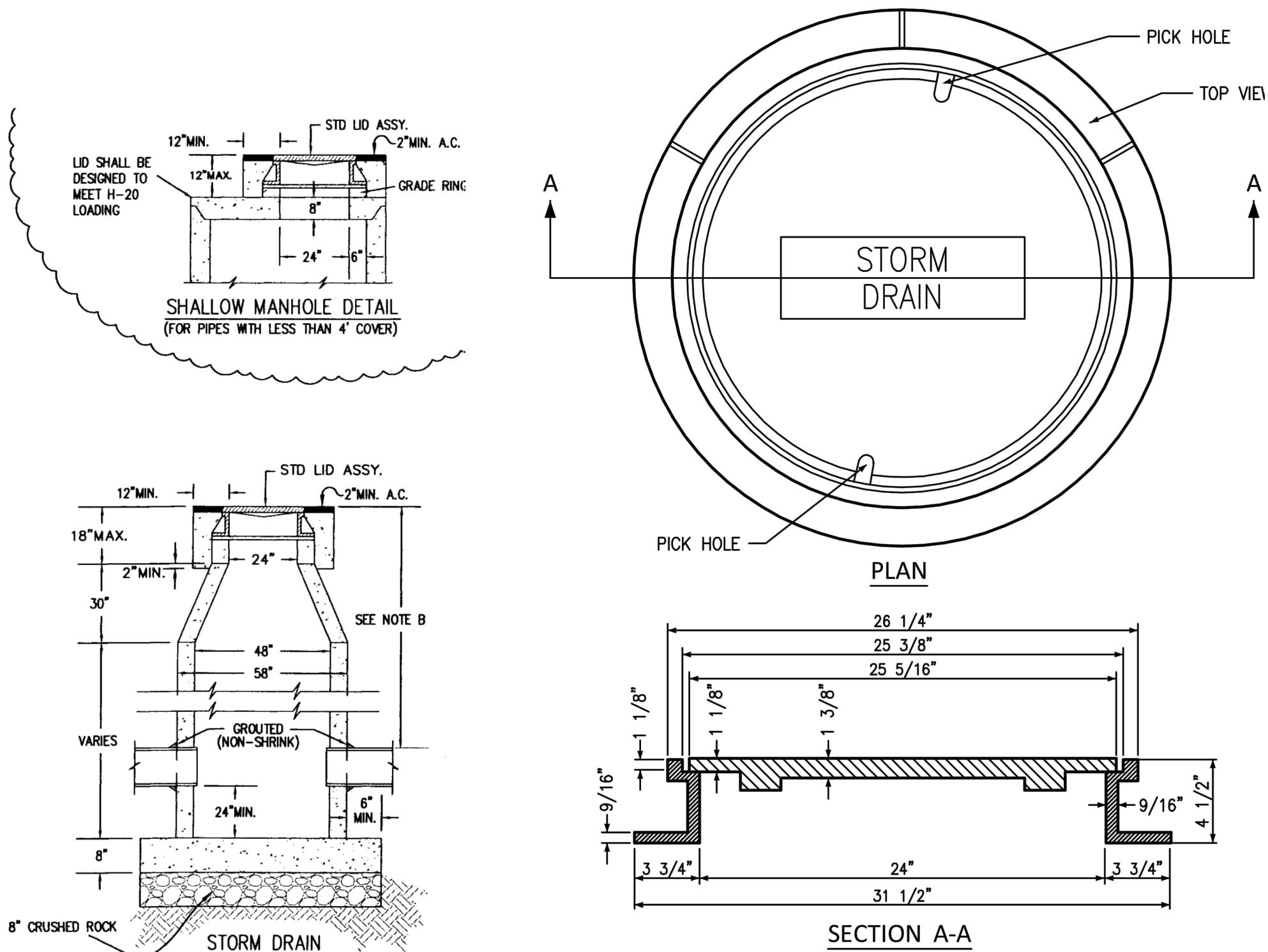
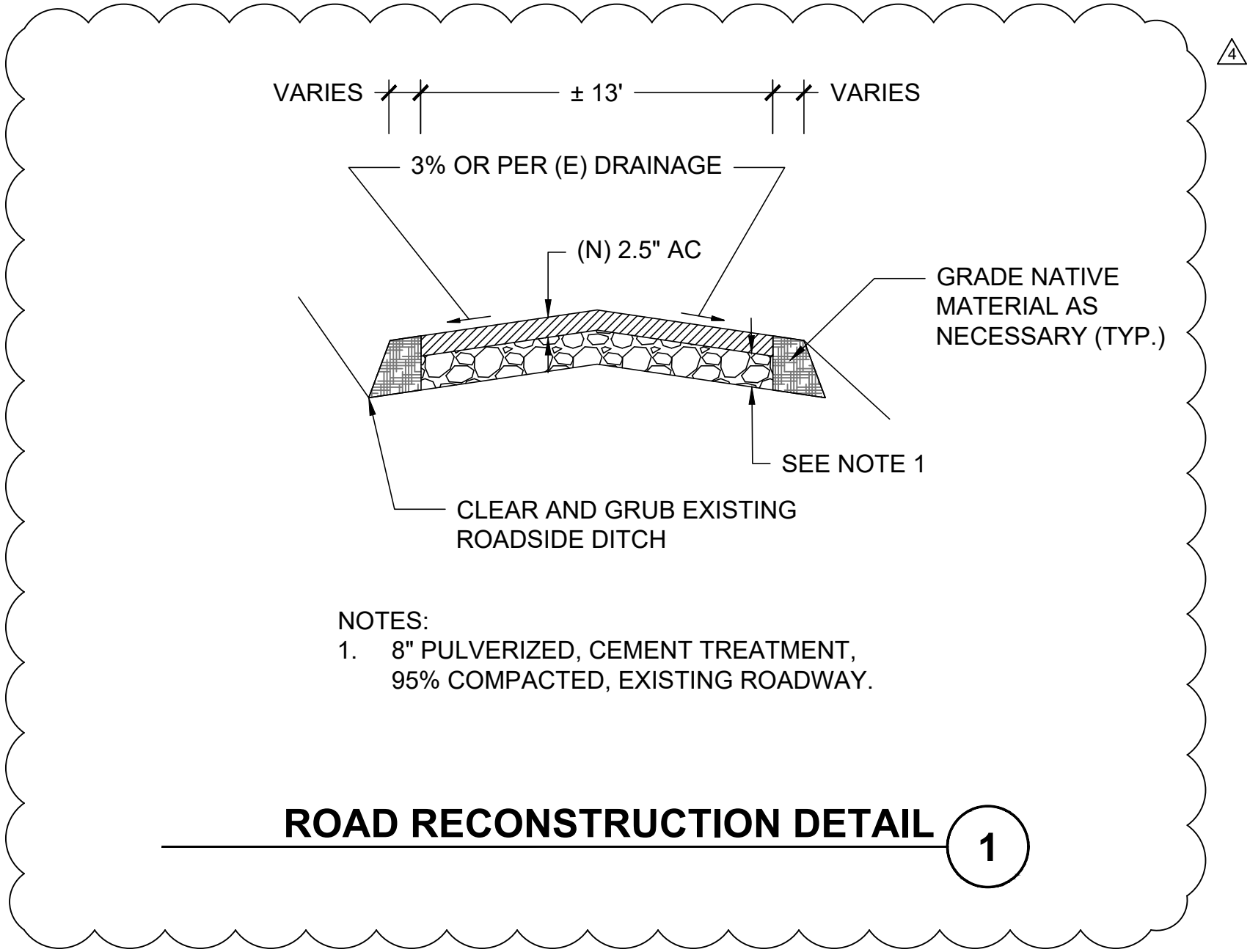
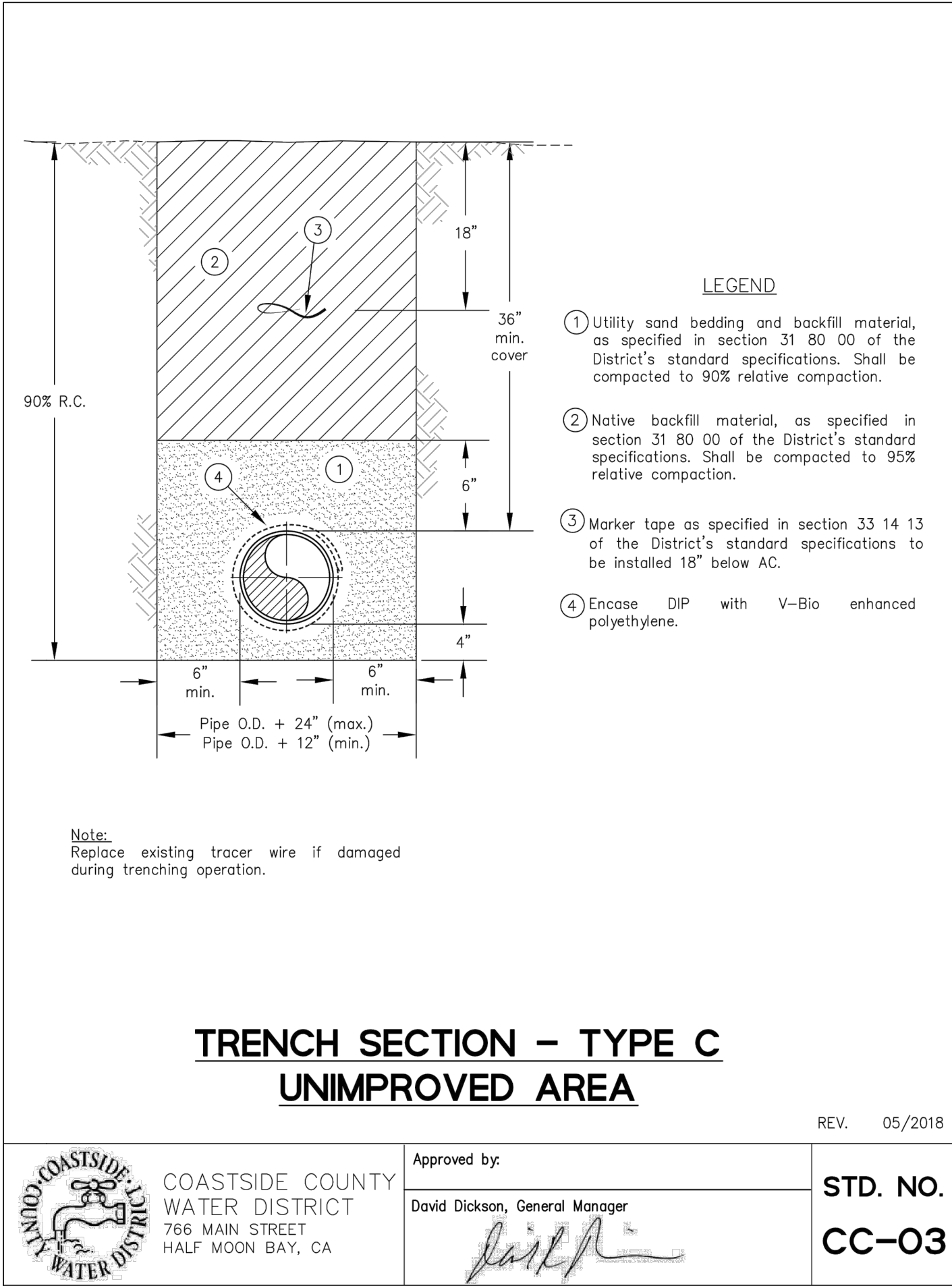
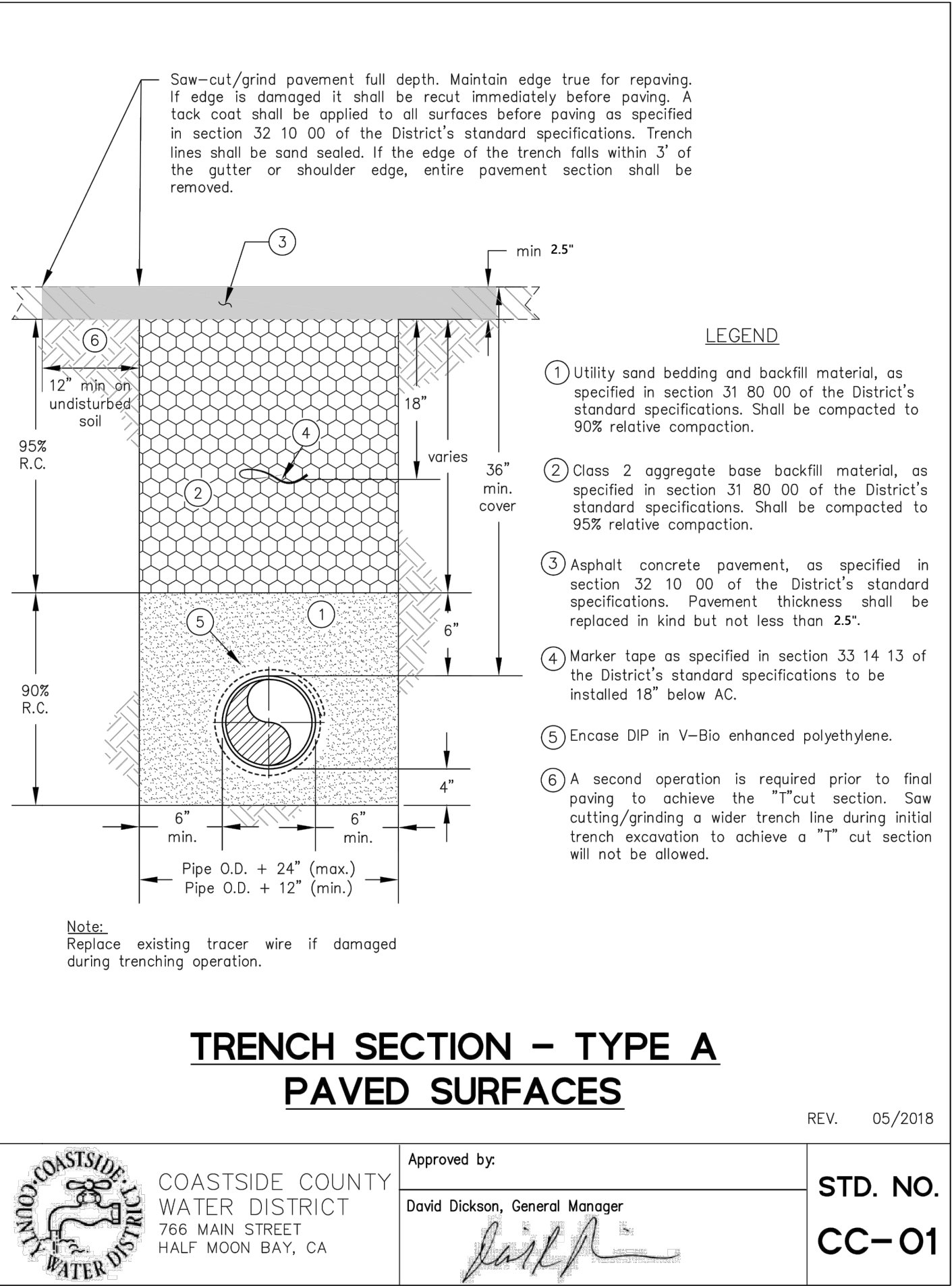


DENNISTON CULVERT REPLACEMENT
AND PAVING PROJECT
COASTSIDE COUNTY WATER DISTRICT
DENNISTON WATER TREATMENT PLANT AREA
GRADING PLAN

DATE	REVISION	DESCRIPTION	APPROVED	DATE
FEB 2020	AS SHOWN	TCA		
	DESIGNED	TCA		
	APPROVED	GMV		
JOB NO.:	B80108.04	REV		

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

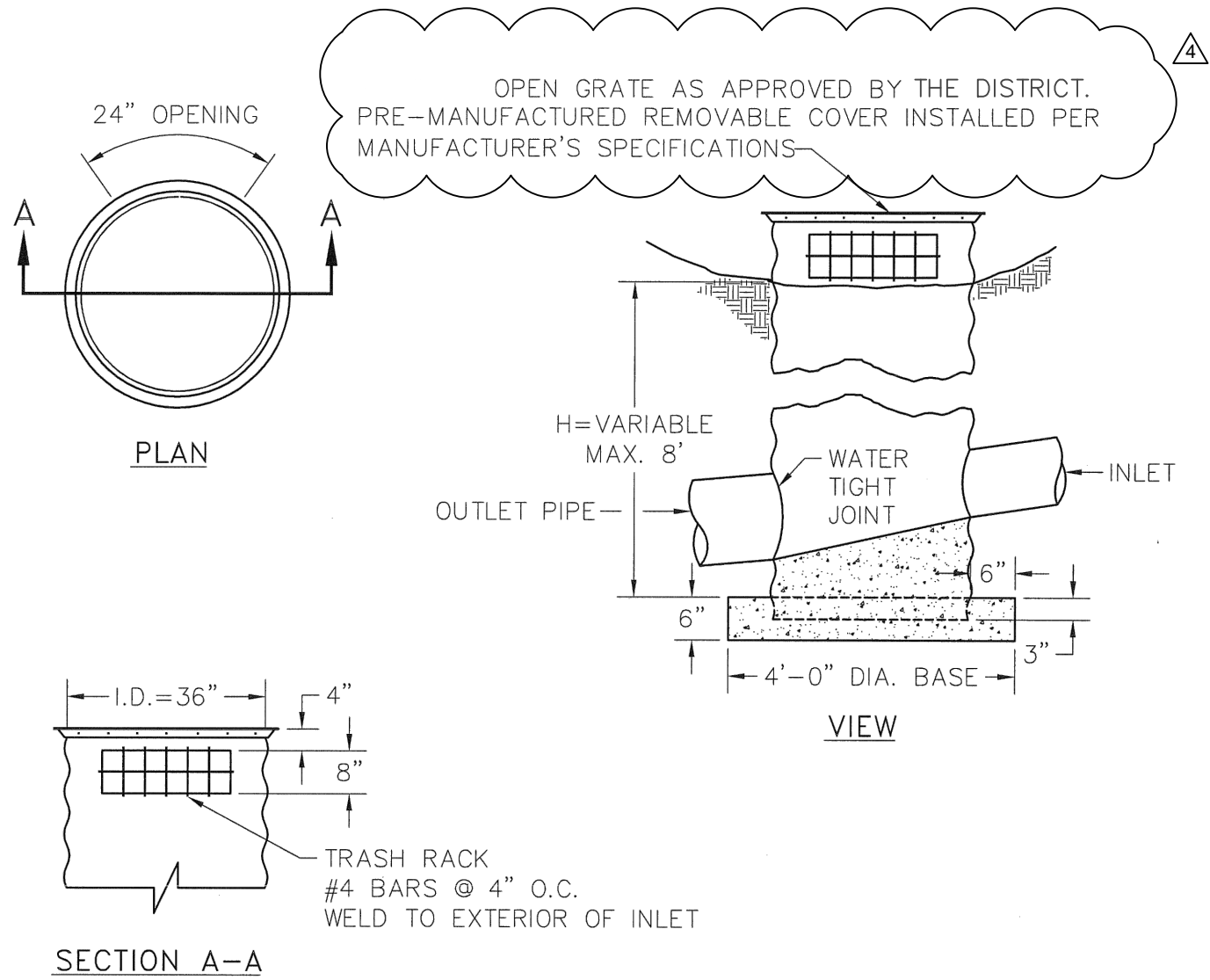
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3
3 OF 6



- NOTES:
- ALL MATERIALS USED IN MANUFACTURING SHALL CONFORM TO A.S.T.M. A48, CLASS 30.
 - ALL CASTINGS TO BE COMPLETELY CLEANED AND PAINTED WITH ASPHALTIC VARNISH, AFTER MANUFACTURE.
 - USE PHOENIX P-1090, D&L SUPPLY A-1024, OR EQUAL.

STORM DRAIN MANHOLE AND LID DETAILS

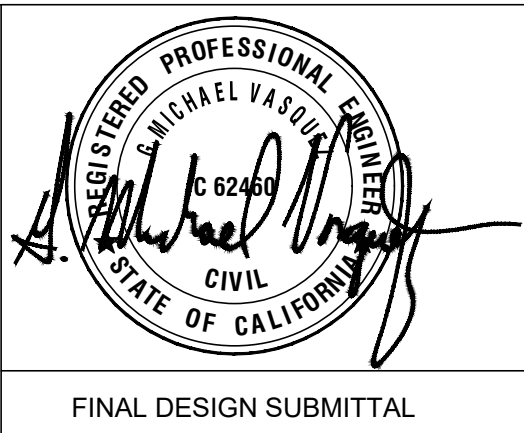
2



- NOTES:
- PIPES SHALL NOT PROTRUDE INTO BASIN BEYOND 2\".
 - BASIN FLOOR SHALL HAVE A MINIMUM SLOPE OF 4:1 FROM ALL DIRECTIONS TO OUTLET PIPE.
 - SEE CALTRANS STANDARD SPECIFICATIONS FOR GALVANIZING REQUIREMENTS.
 - TRASH RACKS ARE TO BE FURNISHED AND INSTALLED ON ALL UPSTREAM SIDE OPENING FLOW LINES. SIDE OPENINGS SHALL CONFORM TO DITCH FLOW LINES.
 - FIELD INLET SHALL BE GALVANIZED 12-GAUGE CMP.

STORM DRAIN INLET DETAIL

3



FINAL DESIGN SUBMITTAL

**DENNISTON CULVERT REPLACEMENT
AND PAVING PROJECT**

COASTSIDE COUNTY WATER DISTRICT

CONSTRUCTION DETAILS 1

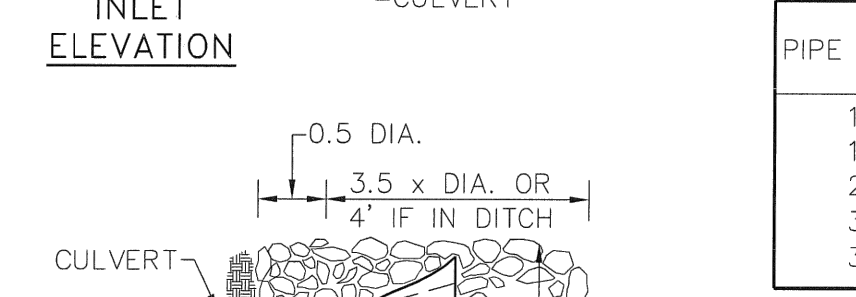
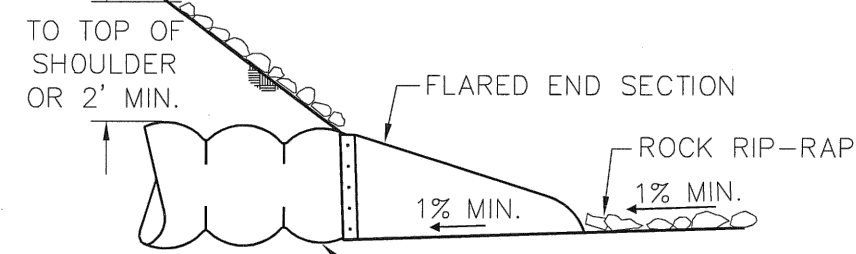
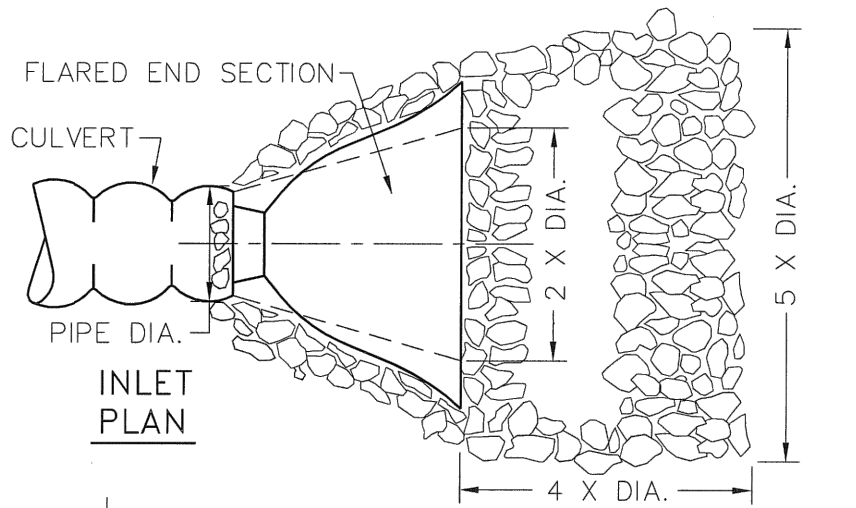
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FEB 2020	AS SHOWN	TCA	TCA	GMV	B80108.04	4/1/20		

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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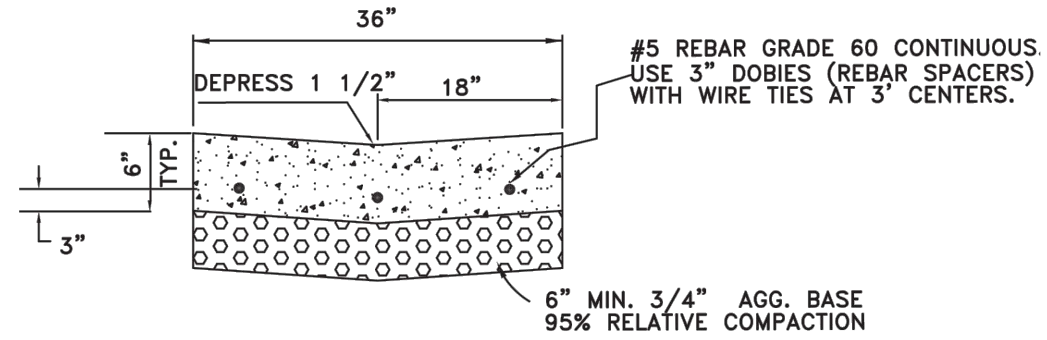
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4 OF 6

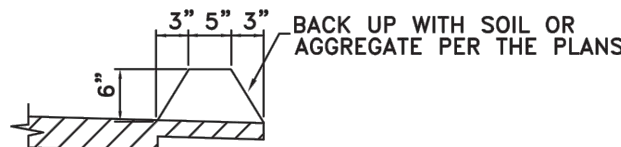


- NOTES:**
1. HAND PLACE ANGULAR ROCK SHALL BE 4" MINIMUM DIMENSION.
 2. WHERE SLOPE OF OUTLET EXCEEDS 5%, A SEDIMENT BOWL OR APPROVED ENERGY DISSIPATER SHALL BE REQUIRED.
 3. FLARED END SECTIONS AND ROCK RIP-RAP WILL SLOPE AT A MINIMUM OF 1% INTO AND OUT OF THE CULVERT.
 4. SLOPE PROTECTION CONFORMING TO THE DIMENSIONS SHOWN MAY BE SUBSTITUTED FOR THE FLARED END SECTIONS ON PIPES 18" AND SMALLER.
 5. GROUT ROCK RIP-RAP AND SLOPE PROTECTION WHEN DITCH SLOPE IS 12% OR GREATER.

PIPE Ø (in)	(2x)	(3.5x)	(4x)	(5x)
	(ft)	(ft)	(ft)	(ft)
12	2	3.5	4	5
18	3	5.25	6	7.5
24	4	7	8	10
30	5	8.75	10	12.5
36	6	10.5	12	15



36 INCH VALLEY GUTTER



STATE "TYPE A" HIGH DIKE
(ASPHALT CONCRETE DIKE)

AC DIKE 6

VALLEY GUTTER 5

STORM DRAIN INLET/OUTLET
EROSION PROTECTION DETAIL

4

ALTERNATIVE CONNECTIONS FOR PIPE TO METAL FLARED END SECTIONS

ALTERNATIVE CONNECTIONS FOR PIPE TO PLASTIC FLARED END SECTIONS

TYPICAL CROSS-SECTION

FLARED END SECTIONS FOR CORRUGATED METAL AND PLASTIC PIPE CULVERTS

D94A

PRECAST CONCRETE FLARED END SECTION TYPE A

PRECAST CONCRETE FLARED END SECTION TYPE B

NOTES:

1. Contractor has the option of using either Type A or B precast concrete flared end section.

2. 12 inch dimension varies by manufacturer and will be paid for as concrete pipe.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
REGISTERED PROFESSIONAL ENGINEER
MICHAEL VASQUEZ
CIVIL
NO SCALE
D94B

TRENCH DAM

PLAN

PROFILE

NOTE: Trench dams shall be placed on new water main alignments where slopes exceed 15% at 100' intervals or as directed by the District.

REV. 05/2018

Approved by: David Dickson, General Manager

STD. NO. CC-23