MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

ADDENDUM NO. 2
TO
CONTRACT DOCUMENTS

For Construction
Of
SANTA MARGARITA WATER TREATMENT FACILITY PROJECT

GENERAL

Scope

The following revisions are made to the Contract Documents and its attachments for the subject project.

This Addendum (including attachments), dated September 6, 2019, includes 21 pages.

ADDITIONAL INFORMATON

Reminder that the **bid opening date and time** are Thursday September 19, 2019 at 2:00 p.m. The location will be the same at 5 Harris Court, Building G, Monterey, CA 93940.

A mandatory pre-bid meeting was held on August 27, 2019. Minutes are included as part of this Addendum.

REVISIONS

Item No. 1

The mandatory pre-bid meeting minutes and attendance sheet are included as Exhibit A of this Addendum 2.

Item No. 2

The District estimate for all work described in this bid is approximately three million dollars ($3M).

Item No. 3

Contractor's Experience Qualifications

Delete the second paragraph in the in its entirety:

"*The Prime Contractor or its subcontractor for the water supply works must have completed two (2) projects constructing potable water supply works with piping and appurtenances within the last ten (10) years."*

Add the following in its entirety:

"The Prime Contractor must have completed two (2) projects of similar scope including pipeline and plant work within the last ten (10) years."

Item No. 4

General Conditions, 11.08 Liquidated Damages

Replace "*one thousand dollars ($1000) per day for each and every calendar day's delay beyond the time prescribed*"

with "*one thousand seven hundred dollars ($1700) per day for each and every calendar day's delay beyond the time prescribed"*

Item No. 5

Special Conditions, 1. Owner Furnished Equipment

Add the following in its entirety:

"The Contractor shall coordinate and provide labor and equipment for delivery off-loading and secure storage of Owner Furnished Equipment at no additional cost to the Owner.

The Contractor shall provide all labor, materials, tools, and supplies necessary to install Owner Furnished Equipment at no additional cost to the Owner.

The Contractor shall coordinate commissioning, training, and start-up support for Owner Furnished equipment at no additional cost to the Owner; the Owner has paid the vendor for commissioning, training, and start-up support, the Contractor is responsible only for coordination."

Item No. 6

Special Conditions, 7 Trailer and Sanitation

Delete the following in its entirety:

"Power, internet service, water, and all supplies required in the office facilities shall be provided by the Contractor at no additional cost to MPWMD. The existing facility does not have available power, internet service, water, or sanitation facilities."

Add the following in its entirety:

"Limited power and water are available at the work site at no additional cost to the Contractor. If the site power or water supply are insufficient for the Contractor's needs, the Contractor shall supply the required power or water supply at no additional cost to MPWMD. If Contractor use of power or water causes any problems with site operation, the Contractor shall supply the required power or water supply at no additional cost to MPWMD.

Sanitation facilities, internet service, and all supplies required for the office facilities shall be provided by the Contractor at no additional cost to MPWMD."

Item No. 7

Special Conditions, 11 Operations

Add the following in in its entirety:

"*Contractor must give Owner and Construction Manager at least 72 hours advance notice of work impacting Operations, including tie-in to the north and south 30" pipelines. Tie-ins to pipelines required for water production must be performed within a 24 hour period*."

Item No. 8

Special Conditions, 13 Inspections

Delete the paragraph in its entirety.

Add the following in in its entirety:

"*Geotechnical and other special inspections must be coordinated with the Owner and the Construction Manager with sufficient notice to facilitate inspection, minimum of 48 hrs. Owner and/or Owner's representative, CM, will be responsible for geotechnical inspection, material testing and special structural inspections including but not limited to concrete, reinforcing, and anchor installations. However, the Contractor will be responsible for coordinating with the Construction Manager or Owner for scheduling required inspections. The Contractor shall not proceed with additional work associated iwht the inspected works without Owner's express consent."*

Item No. 9

Special Conditions, 16 Completion

Add the following in its entirety to the first paragraph:

"*Substantial completion includes all instrumentation, wiring, and electrical work such that the Owner/Operator can install and commission SCADA. SCADA, to be installed by others, is not part of substantial completion for this contract, wiring and electrical are part of this contract."*

Item No. 10

Construction Plans and Drawings

Delete drawings C7, C9, C10, C11, C13, A101, A111, and A401 and replace with the drawings supplied as Exhibit 2 to this Addendum 2.

QUESTIONS AND RESPONSES

None in this Addendum.

Exhibit A

Intentional blank

+Santa Margarita Water Treatment Facility Project

Mandatory Pre-bid Meeting 27 August, 2019

1. Introduction
2. Project Team
    a. Maureen Hamilton, MPWMD, Project Manager
    b. Steve Tanner, Pueblo Water Resources, Designer
    c. Jon Lear, MPWMD, Operations Manager
    d. Dave Norris, Cal Am Representative
3. Bidding and Contract Schedule
    a. Bid Opening Date: September 19, 2019, 2:00 p.m. at 5 Harris Court, Building G, Monterey, CA 93940
    b. Last day for Questions: September 12, 2019, 5:00 p.m.
    c. Estimated Board Approval for Award: October 21, 2019
    d. Notice of Award, Notice to Proceed
    e. Contract Time: Substantial completion by June 30, 2020.
4. Bidder Qualifications & Requirements
    a. Bid Acknowledgement
        i. Sign that all addenda have been received or attach all addenda with bid.
    b. Bid Form
        i. Owner purchased materials – we are NOT purchasing the Prominent analyzer. We are purchasing the chemical feed skids. In an addendum we will ask that some lettering be installed on a wall; we have purchased that lettering.
    c. Subcontractor's Designation Form
    d. Prevailing wages, insurance, bonds – This is a prevailing wage job. This project is not being funded by any grant nor state revolving fund loan. Bid bond, performance and material bonds, and a 50% maintenance bond. The City of Seaside has its own insurance requirements; MPWMD is not responsible for the City requirements.
    e. Experience
5. Payments & Retainage
    a. Bonds
    b. Release of Lien
    c. Monthly Payments
    d. 5% Retainage
    e. Liquidated Damages – currently set at $1000/day. This is subject to change in a future addendum.
6. Bidder Requirements - Project

a. Special Conditions

i. Owner furnished equipment and substitutions – update issued in Addendum 1, please read carefully.

ii. Permits – license, grading, encroachment

1. Grading permit costs – handout was given from City of Seaside official detailing calculation for the grading permit. Calculation and cost negotiations are between the Contractor and the City; MPWMD is not involved in nor responsible for grading permit costs and cost negotiations. MPWMD will work with City in advance of the bid to get the grading permit initiated.

iii. Fort Ord, MRP – we are constructing on a former munitions range. Unexploded ordnance (not a typo) also known as UXO training is required. Training is now on-line. Soil management is critical. Soil may not be exported from site. There is a "TIP" line shown in some civil drawings that indicates where soil to the west may not be moved east. The CEQA Mitigation Reporting Program is given in the Call for Bids. A biologist is not required.

iv. SWPPP – MPWMD has a SWPPP. The land calculations show we are disturbing less than one acre. Please review the special conditions carefully. If stockpiles are located such that the disturbed acreage exceeds 1 acre, the Contractor will be responsible for Construction General Permit requirements detailed in the Special Conditions.

v. Trailer, Utilities –

vi. Neighbors – during our last project we got no noise complaints and numerous vibration complaints. Please read the plans, specifications, and special conditions carefully. When sheepsfooted rollers were used, and when excavating through a sand stone layer, we received multiple calls about vibration. Neighbors reported windows and glasses vibrated excessively. The Contractor is expected to respond to neighbor complaints by reducing the intensity and/or use of vibration equipment to a level acceptable to the neighbors. Please plan accordingly.

vii. O&M – construction will be performed while the facility is operating. There are two tie-ins that need to be made that will interrupt operation. MWPMD expects to issue an Addendum detailing acceptable outages.

b. Operating facility

c. Addenda

7. Description of Work (Steve)

Scada is not in this scope. A cabinet will need to be moved and installed; conduit and signal wire routed to the cabinet in the new building.

8. Questions from Bidders

Addenda will be uploaded to the web and sent via email to the email addresses given on the sign-in sheet at this pre-bid meeting.

Visited MCC

Visited the stockpile area used for the backflush basin expansion

Questions:

What size sheepsfooted roller received the vibration complaints? 84 inches.

Monterey Peninsula Water Management District
Santa Margarita Water Treatment Facility

Mandatory Pre-Bid Meeting Sign-In Sheet (27 August, 2019 – 10:00am)

CONTRACTOR	Anderson Pacific
Contact Name	Sean McBurney
Address	1390 Norman Ave Santa Clara, CA
Telephone	(408) 529-9518
Fax	
Email	sm@andpac.com
CONTRACTOR	Brough Construction Inc
Contact Name	Jeff Brough
Address	634 printz RD Arroyo Grande, CA 93420
Telephone	8054897779
Fax	
Email	estimators@broughconstruction.com Mark@broughconstruction.com
CONTRACTOR	MERCER-FRASER COMPANY
Contact Name	MARK BENZINGER
Address	PO Box 1006 EUREKA CA 95502
Telephone	707-599-6371
Fax	707-443-0277
Email	mbenzinger@mercerfraser.com
CONTRACTOR	Specialty Construction Inc.
Contact Name	Tom Seidel
Address	645 Clarion Ct. SLO CA 93401
Telephone	805-543-1706
Fax	805-543-1722
Email	tseidel@specialtyconstruction.com

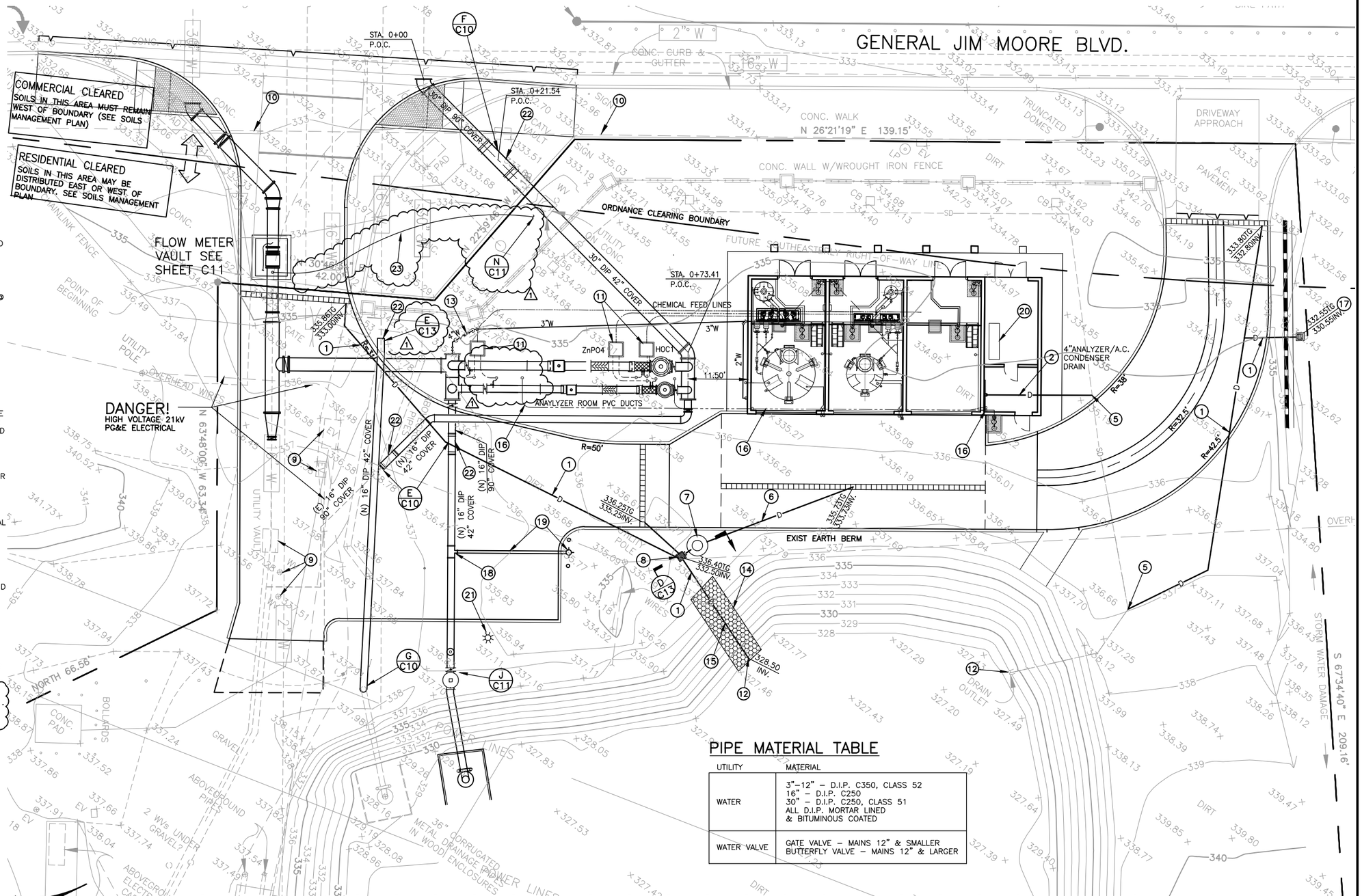
CONTRACTOR	MPE
Contact Name	MIKE BARTHEL
Address	192 HEALY AVE, MARINA
Telephone	813-384-4081
Fax	813-384-5078
Email	MIKE@MPE2000.COM
CONTRACTOR	DMC COMMERCIAL INC
Contact Name	Dan McAweeney
Address	194 Sky Park Dr. Monterey 93940
Telephone	831-656-1600
Fax	831-717-4315
Email	dan@dmcmp.com
CONTRACTOR	
Contact Name	
Address	
Telephone	
Fax	
Email	
CONTRACTOR	
Contact Name	
Address	
Telephone	
Fax	
Email	

Exhibit B

Intentional blank

CONSTRUCTION NOTES

1. CONSTRUCT 8" TYPE S HDPE STORM DRAIN.
2. CONSTRUCT 4" TYPE S HDPE STORM DRAIN.
3. NOT USED
4. NOT USED
5. CONNECT 8" HDPE TO EXIST 8" HDPE. CONTRACTOR TO VERIFY EXIST DEPTH AND LOCATION OF EXIST 8" HDPE.
6. CONSTRUCT 6" TYPE S HDPE STORM DRAIN.
7. CONSTRUCT LOADING RACK SUMP 4' O.D. X 4' DEEP WITH 24" STANDARD MANHOLE COVER PER SECTION "D" SHEET C13
8. CONSTRUCT BROOKS PRODUCT CB–1818 18"x18" CATCH BASIN WITH GRATE (ADA COMPLIANT) OR APPROVED EQUAL BY THE OWNER.
9. ADJUST EXISTING UTILITY VALVES, VAULT LIDS, TO GRADE AS REQUIRED
10. EXIST FIBER OPTICS CABLE WITH CONCRETE CAP. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO WORK IN THIS AREA
11. INSTALL 30"X30"X30"DEEP CONCRETE JUNCTION VAULTS FOR CHEMICAL FEED DOUBLE CONTAINMENT LINES. USE ALHAMBRA A–1601B 24" WATER–TIGHT COVER AND FRAME, SEE DETAIL F SHEET C7. SLOPE PVC CONDUITS BACK TO CHEMICAL BUILDING @ MIN. 2% SLOPE. SEE DETAIL J SHEET M4
12. INSTALL 8" RED VALVE CO., TIDEFLEX TF–1 CHECK VALVE ON EXISTING HDPE OUTFALL LINE.
13. INSTALL 4" GATE VALVE, 4" REDUCED PRESSURE BACKFLOW PREVENTION AND RISER ASSEMBLY.
14. CONSTRUCT 6' WIDE GRASSCRETE SLOPE PROTECTION PER MANUFACTURERS RECOMMENDATIONS
15. CONSTRUCT 8" DR17 (PE 4710) HDPE FUSION JOINED STORM DRAIN PIPE. PIPE TO BE PLACED ON TOP OF GRASSCRETE SLOPE PROTECTION. SECURE PIPE WITH PLASTIC PIPE JOINT RESTRAINER ASSEMBLY PER CALTRANS STANDARD DETAIL D87B AT OUTLET AND MID SPAN.
16. CONSTRUCT 2 EACH 2 1/2" SCH 80 DUCTS WITH LONG SWEEP BENDS. INSTALL 2 EACH 0.25" I.D. X 0.35" O.D. PARAFLEX TUBING IN EACH DUCT , ROUTE FROM 16" AND 20" TO ANALYZER ROOM. MOUNT 2 1/2" DUCTS TO INSIDE WALL 24"–36" ABOVE SUB–FLOOR LEVEL.
17. CONSTRUCT 18"X18" LOW PROFILE ADAPTER (PART NO. 1830) WITH 18"X18" ATRIUM GRATE (PART NO. 1881) AND 8" UNIVERSAL LOCKING OUTLET (PART NO. 1888) AS MANUFACTURED BY NDS OR APPROVED EQUAL
18. CONSTRUCT 16"X16"X6" D.I.P. TEE FOR FIRE HYDRANT (MJ W/RESTRAINT)
19. CONSTRUCT 6" D.I.P FIRE HYDRANT LATERAL WITH 42" COVER AND INSTALL STANDARD 2 1/2" X 4" FIRE HYDRANT PER CAL–AM STANDARD DETAILS
20. AIR COMPRESSOR IN ELECTRIC ROOM SEE SHEET C–11
21. LIGHT POLE SEE DETAIL 7 SHEET C6 FOR FOUNDATION, SEE ELECTRIC PLANS FOR ADDITIONAL DETAILS
22. TRANSITION FROM 90" COVER OVER TOP OF PIPE TO 42" COVER OVER TOP OF PIPE
23. 1/2" TYPE K COPPER TUBING WITH 36" MIN. COVER. ROUTE FROM METER VAULT TO SAMPLE STATION SHOWN ON SHEET C11 LOCATE ADJACENT TO RELOCATED AIR–VAC ASSEMBLY.



PIPE MATERIAL TABLE

UTILITY	MATERIAL
WATER	3"–12" – D.I.P. C350, CLASS 52 16" – D.I.P. C250 30" – D.I.P. C250, CLASS 51 ALL D.I.P. MORTAR LINED & BITUMINOUS COATED
WATER VALVE	GATE VALVE – MAINS 12" & SMALLER BUTTERFLY VALVE – MAINS 12" & LARGER

MATCH LINE – SEE SHEET C8

REGISTERED PROFESSIONAL ENGINEER
STEPHEN P. TANNER
No. 51881
EXPIRES 06–30–20
CIVIL
STATE OF CALIFORNIA

DATE SIGNED _____

UNAUTHORIZED CHANGES & USES CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

SCALE: 1"=10'
0 10 20 30 40

REV	DATE	BY	DESCRIPTION
1	09–04–19	SPT	BID ADDENDUM #2
	08–05–19		ISSUED FOR BID

SCALE: HOR. 1"=10' VER. 1"=N/A

WARNING 0 1/2 1 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED STP
DRAWN TLA/FH
CHECKED SPT

MAC Design Associates
CIVIL ENGINEERING * LAND PLANNING * BRIDGE DESIGN
1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957–4748

PUEBLO water resources
Pueblo Water Resources
4478 Market St., Suite 705
Ventura, CA 93003
(805) 644-0470

UTILTY AND PIPING PLAN
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT
SANTA MARGARITA ASR FACILITY SITE EXPANSION
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451

C7

0451UTIL.DWG 04/12/19 08:50:21 AM PDT

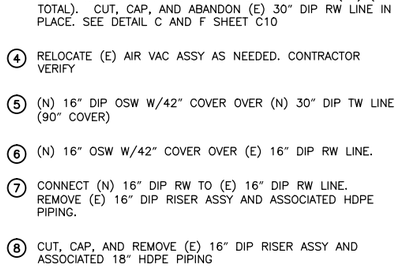
CONSTRUCTION NOTES

1. CONNECT (N) 16" DIP OSW LINE TO (E) 16" DIP OSW LINE AT 42" BG WITH RESTRAINED 90° BEND (MJ). CUT, CAP, AND ABANDON E 16" DIP OLD LINE IN PLACE. PER DETAIL G SHEET C10
2. CONNECT (N) 16" DIP OSW LINE TO (E) 16" DIP OSW LINE AND TRANSITION FROM 90° BG TO 42" BG WITH TWO RETRAINED 90° BENDS (VERT.). REMOVE (E) 16" DIP OSW RISER AND HDPE LINE. PER DETAIL E SHEET C13
3. CONNECT (N) 30" DIP RW LINE TO (E) 30" DIP RW LINE WITH RESTRAINED 45° BEND (MJ) AND TRANSITION FROM 90° BG TO 42" BG WITH TWO RESTRAINED 45° BENDS (MJ) (3 TOTAL). CUT, CAP, AND ABANDON (E) 30" DIP RW LINE IN PLACE. SEE DETAIL C AND F SHEET C10
4. RELOCATE (E) AIR VAC ASSY AS NEEDED. CONTRACTOR VERIFY
5. (N) 16" DIP OSW W/42" COVER OVER (N) 30" DIP TW LINE (90" COVER)
6. (N) 16" OSW W/42" COVER OVER (E) 16" DIP RW LINE.
7. CONNECT (N) 16" DIP RW TO (E) 16" DIP RW LINE. REMOVE (E) 16" DIP RISER ASSY AND ASSOCIATED HDPE PIPING.
8. CUT, CAP, AND REMOVE (E) 16" DIP RISER ASSY AND ASSOCIATED 18" HDPE PIPING
9. 16" BUTTERFLY VALVE, FLANGE
10. 30" BUTTERFLY VALVE, FLANGE
11. 16" PRESSURE RELIEF VALVE W/SOLENOID OVERRIDE, CLAVAL 50-03 SEE DETAIL J" SHEET C11
12. EXIST FIBER OPTIC CABLE WITH CONCRETE CAP. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO WORK IN THIS AREA
13. CUT CAP AND INSTALL CONCRETE BLOCK OVER ALL ABANDONDED IN PLACE LINES SEE DETAIL "H" SHEET C10
14. TRANSITION FROM 90" COVER OVER TOP OF PIPE TO 42" COVER OVER TOP OF PIPE. DEPTHS ARE APPROXIMATE.
15. CONSTRUCT BOLLARD PER DETAIL G THIS SHEET
16. 1/2" TYPE K COPPER TUBING WITH 36" MIN. COVER. ROUTE FROM METER VAULT TO SAMPLE STATION SHOWN ON SHEET C11 . LOCATE ADJACENT TO RELOCATED AIR-VAC ASSEMBLY.

⚠1

PIPE MATERIAL TABLE

UTILITY	MATERIAL
WATER	3"-12" – D.I.P. C350, CLASS 52 16" – D.I.P. C250 30" – D.I.P. C250, CLASS 51 ALL D.I.P. MORTAR LINED & BITUMINOUS COATED
WATER VALVE	GATE VALVE – MAINS 12" & SMALLER BUTTERFLY VALVE – MAINS 12" & LARGER



G C9 BOLLARD DETAIL

WALL FOOTING
EXISTING WALL FOOTING PROTECT IN PLACE DO NOT DISTURB

SEE PROFILE SHEET C13

CHEMICAL FEED LINES (TYPICAL)

3" X 2 1/2" REDUCER

HOC1

ZnPO4

3" D.I.P. 30"COVER INTO CHEMICAL BUILDING

2-1/2" SCH 80 PVC. ANAYLYZER DUCTS 30" COVER

SPARE CHEM.

4X3 REDUCER

R=50'

R=31'

COMMERCIAL CLEARED
SOILS IN THIS AREA MUST REMAIN WEST OF BOUNDARY (SEE SOILS MANAGEMENT PLAN)

FLOW METER VAULT

RESIDENTIAL CLEARED
SOILS IN THIS AREA MAY BE DISTRIBUTED EAST OR WEST OF BOUNDARY. SEE SOILS MANAGEMENT PLAN

N 63°48'00" W 63.34'

DANGER!
HIGH VOLTAGE 21kV
PG&E ELECTRICAL

GENERAL JIM MOORE BLVD.

SCALE: 1"=6'
0 6 12 18 24

UNAUTHORIZED CHANGES & USES CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

REGISTERED PROFESSIONAL ENGINEER
STEPHEN P. TANNER
No. 51881
EXPIRES 06-30-20
CIVIL
STATE OF CALIFORNIA

DATE SIGNED _____

REV	DATE	BY	DESCRIPTION
1	09-04-19	SPT	BID ADDENDUM #2
	08-05-19		ISSUED FOR BID

SCALE:
HOR. 1"=6'
VER. N/A

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED SPT
DRAWN TLA/FH
CHECKED SPT

MAC Design Associates
CIVIL ENGINEERING * LAND PLANNING * BRIDGE DESIGN
1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

PUEBLO water resources
Pueblo Water Resources
4478 Market St., Suite 705
Ventura, CA 93003
(805) 644-0470

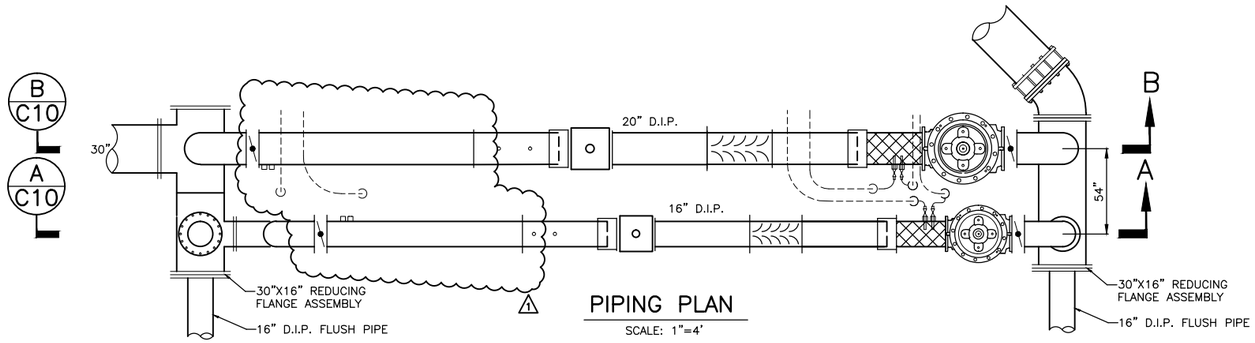
16"&30" TRANSMISSION LINE MODIFICATIONS

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT
SANTA MARGARITA ASR FACILITY SITE EXPANSION
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO.
W.O. 0451

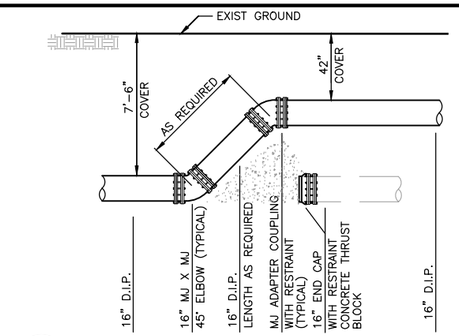
C9

0451UTIL.DWG 04/12/19 08:50:21 AM PDT



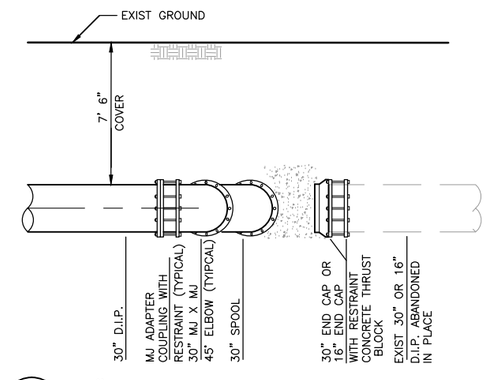
PIPING PLAN

SCALE: 1"=4'



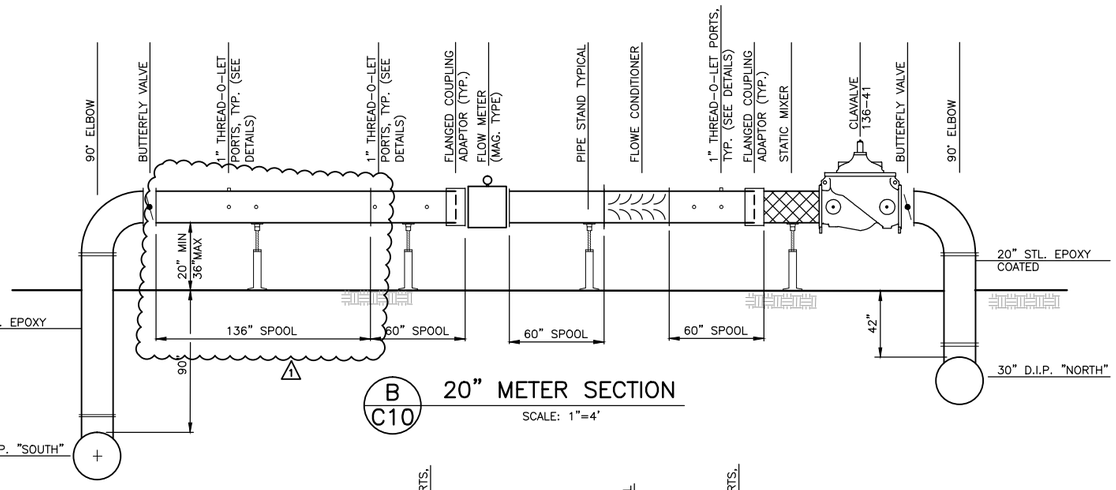
E C10 16" D.I.P. 45° ELBOW DETAIL

SCALE: 1"=4'



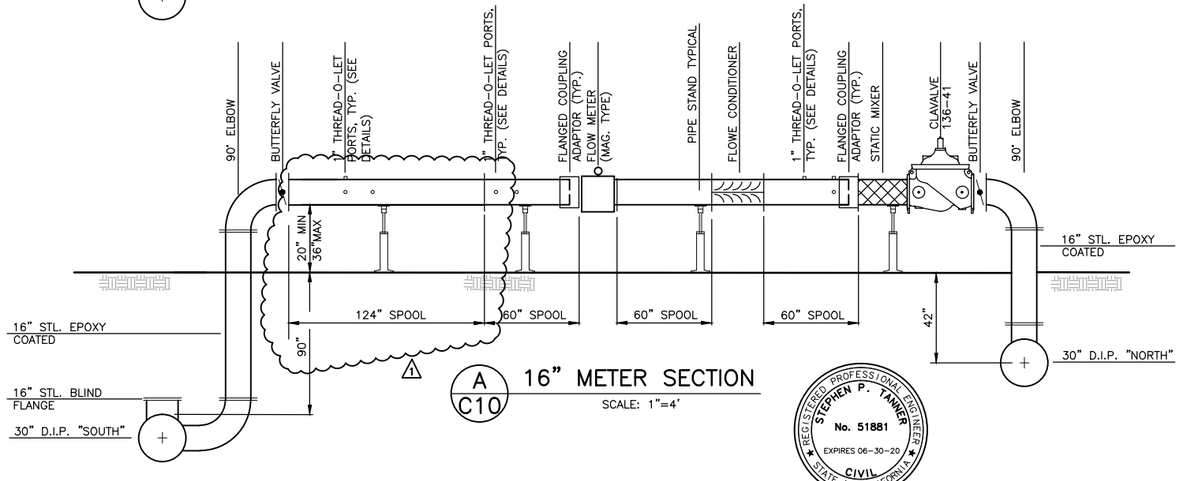
H C10 30" D.I.P. 45° ELBOW DETAIL

NTS



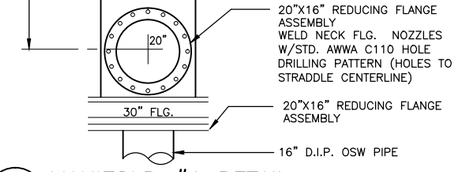
B C10 20" METER SECTION

SCALE: 1"=4'



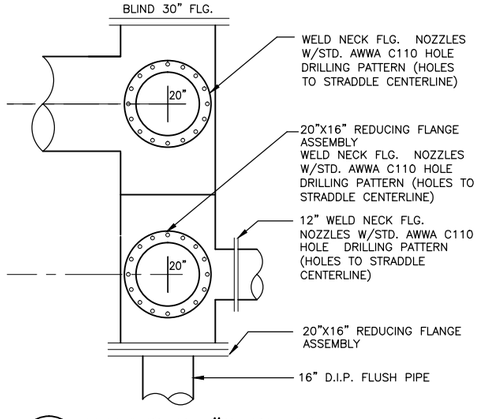
A C10 16" METER SECTION

SCALE: 1"=4'



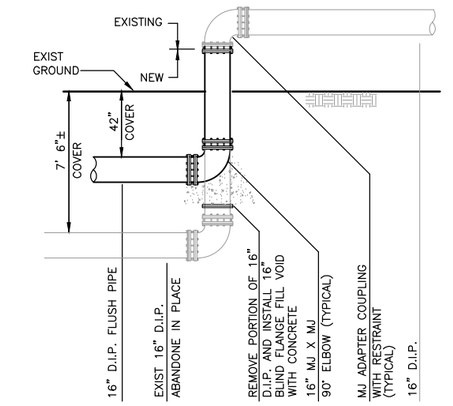
D C10 MANIFOLD #1 DETAIL

SCALE: 1"=2'



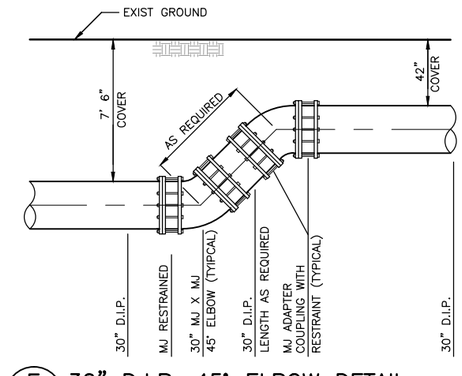
C C10 MANIFOLD #2 DETAIL

SCALE: 1"=2'



G C10 16" D.I.P. OSW PIPE DETAIL

SCALE: 1"=4'



F C10 30" D.I.P. 45° ELBOW DETAIL

SCALE: 1"=4'

REGISTERED PROFESSIONAL ENGINEER
STEPHEN P. TANNER
No. 51881
EXPIRES 06-30-20
CIVIL
STATE OF CALIFORNIA

DATE SIGNED _____

REV	DATE	BY	DESCRIPTION
1	09-04-19	SPT	BID ADDENDUM #2
	08-05-19		ISSUED FOR BID

SCALE:
HOR. N/A
VER. N/A

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED SPT
DRAWN TLA/FH
CHECKED SPT

MAC Design Associates
CIVIL ENGINEERING * LAND PLANNING * BRIDGE DESIGN
1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

PUEBLO water resources
Pueblo Water Resources
4478 Market St., Suite 705
Ventura, CA 93003
(805) 644-0470

PIPING DETAILS

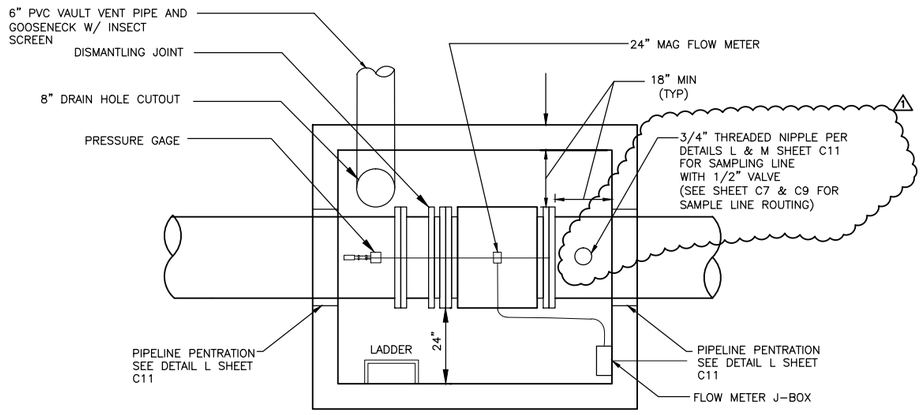
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

SANTA MARGARITA ASR FACILITY SITE EXPANSION
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451

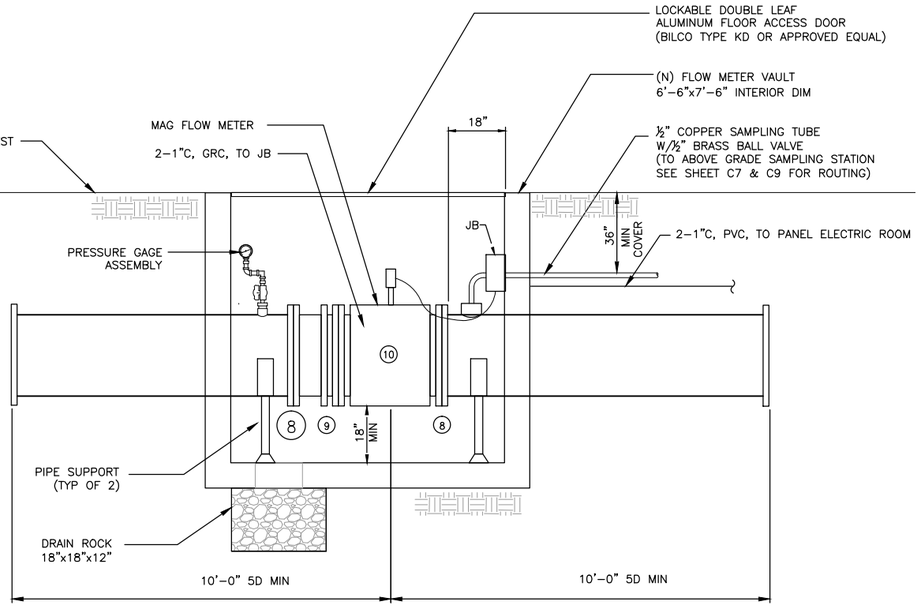
C10

0451UTIL.DWG 04/12/19 08:50:21 AM PDT



FLOW METER VAULT PLAN

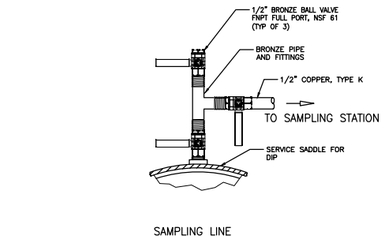
SCALE: 1"=2'



ITEM	DESCRIPTION	MAT	QT
⑧	RESTRAINED FLANGE COUPLING ADAPTER, 24"	DI	2
⑨	DISMANTLING JOINT, FLGxFLG, 24"	DI	1
⑩	MAG FLOW METER, FLGxFLG, 24"	STL	1

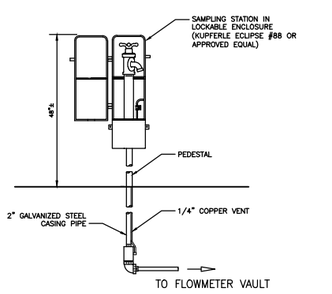
SECTION FLOW METER VAULT PLAN

SCALE: 1"=2'



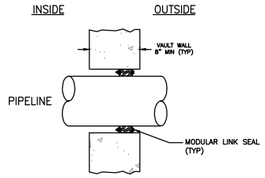
M / C11 SAMPLING STATION DETAIL

NO SCALE



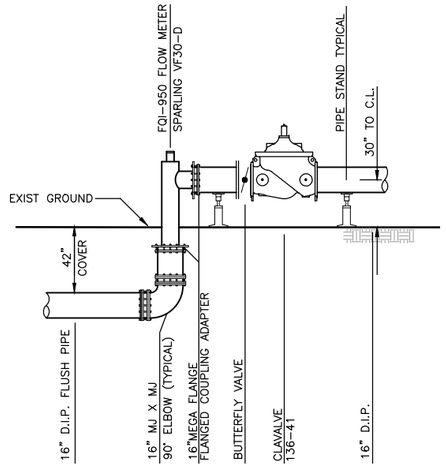
N / C11 SAMPLING STATION DETAIL

NO SCALE



L / C11 PIPELINE PENETRATION DETAIL

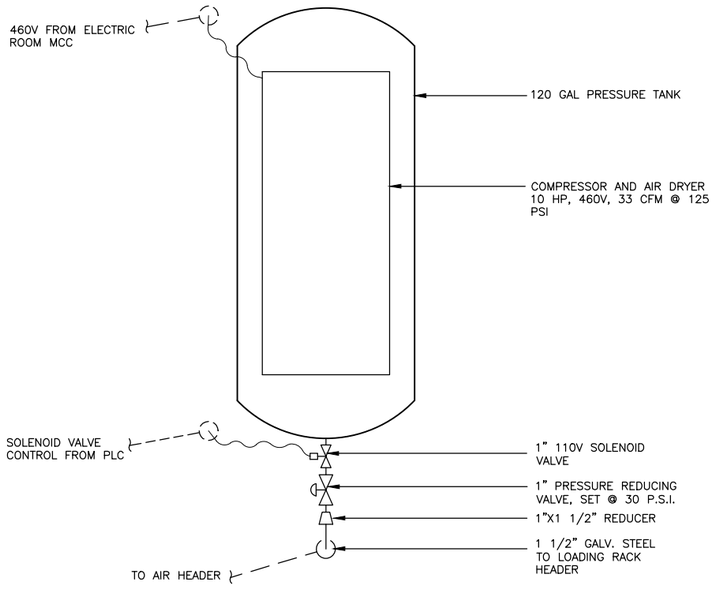
NO SCALE



NOTE: SEE DETAIL B SHEET C13 ADDITIONAL INFORMATION

J / C11 16" D.I.P. FLUSH PIPE DETAIL

SCALE: 1"=4'



COMPRESSOR DETAIL

SCALE: 1"=1'

REGISTERED PROFESSIONAL ENGINEER
STEPHEN P. TANNER
No. 51881
EXPIRES 06-30-20
CIVIL
STATE OF CALIFORNIA

DATE SIGNED _____

REV	DATE	BY	DESCRIPTION
1	09-04-19	SPT	BID ADDENDUM #2
	08-05-19		ISSUED FOR BID

SCALE: WARNING
HOR. N/A
VER. N/A
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED SPT
DRAWN TLA/FH
CHECKED SPT

MAC Design Associates
CIVIL ENGINEERING * LAND PLANNING * BRIDGE DESIGN
1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

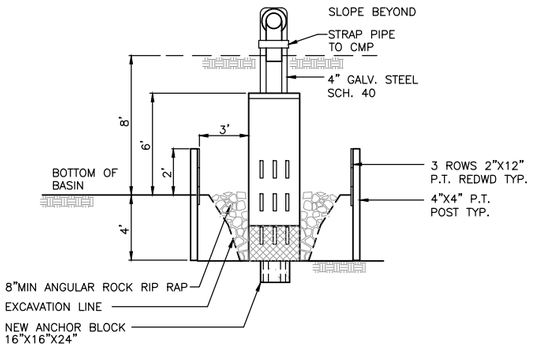
PUEBLO water resources
Pueblo Water Resources
4478 Market St., Suite 705
Ventura, CA 93003
(805) 644-0470

PIPING DETAILS
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT
SANTA MARGARITA ASR FACILITY SITE EXPANSION
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451

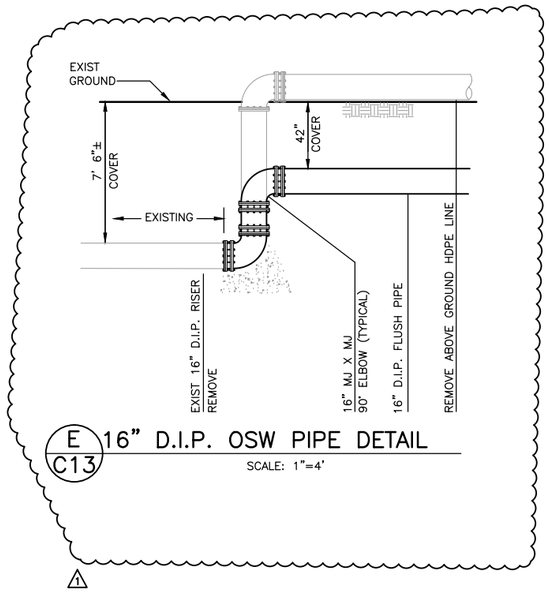
C11

0451UTIL.DWG 04/12/19 08:50:21 AM PDT



C / C13 ENERGY DISSAPATION CAN AND PIPE SUPPORT

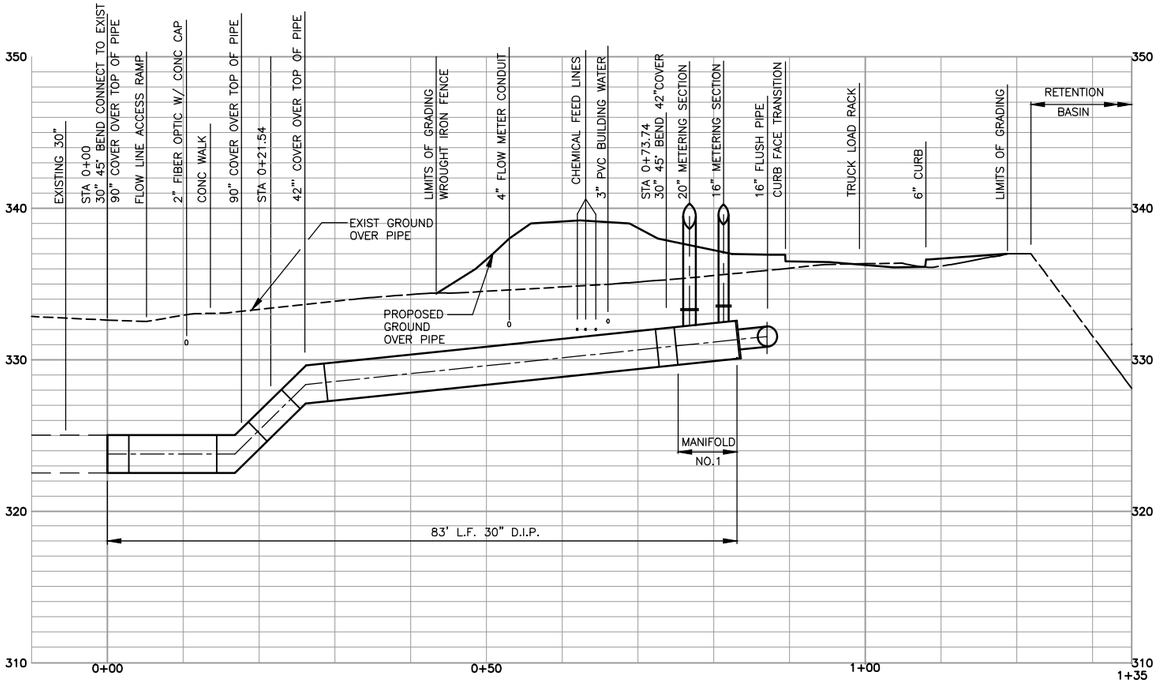
SCALE: 1"=2'



E / C13 16" D.I.P. OSW PIPE DETAIL

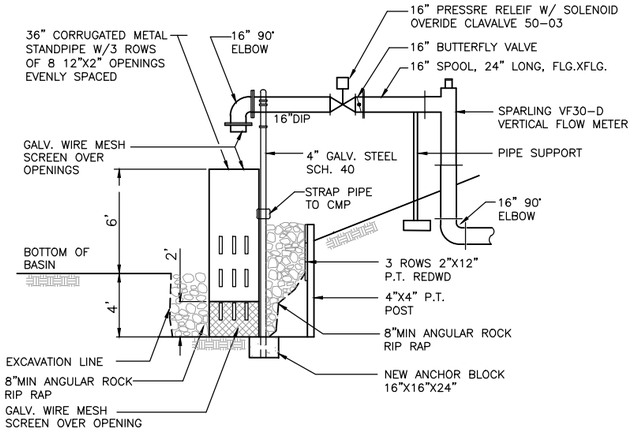
SCALE: 1"=4'

1



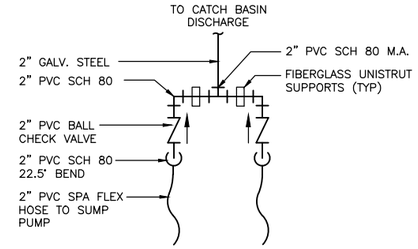
30" TRANSMISSION PIPE PROFILE

SCALE: HORZ. 1"=10'
VERT. 1"=5'



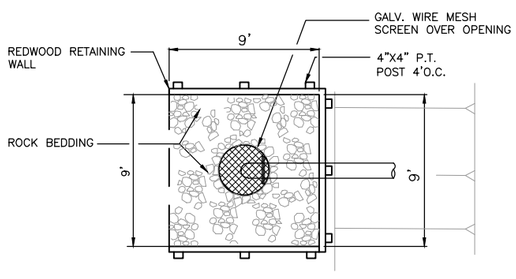
B / C13 SECTION

SCALE: 1"=2'



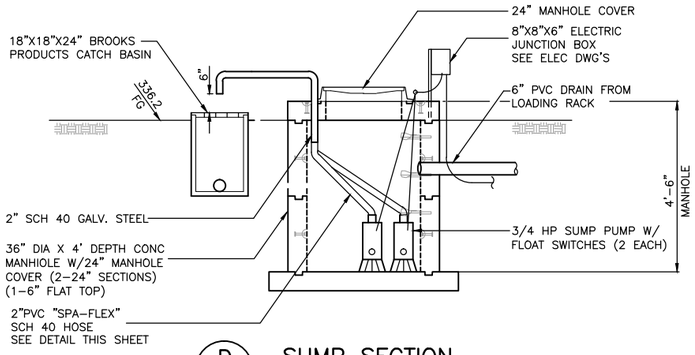
SUMP PIPING DETAIL

SCALE: 1"=2'



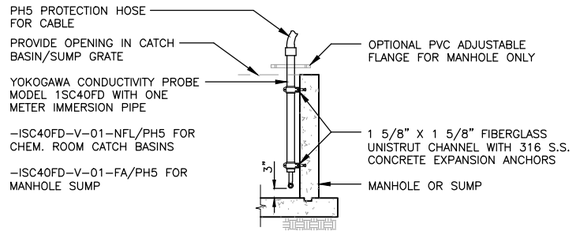
A / C13 PLAN STANDPIPE RETAINING WALL

SCALE: 1"=2'



D / C13 SUMP SECTION

SCALE: 1"=2'



CONDUCTIVITY PROBE MOUNTING DETAIL

NTS

REGISTERED PROFESSIONAL ENGINEER
STEPHEN P. TANNER
No. 51881
EXPIRES 06-30-20
CIVIL
STATE OF CALIFORNIA

DATE SIGNED _____

REV	DATE	BY	DESCRIPTION
1	09-04-19	SPT	BID ADDENDUM #2
	08-05-19		ISSUED FOR BID

SCALE:
HOR. N/A
VER. N/A

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED SPT
DRAWN TLA/FH
CHECKED SPT

MAC Design Associates
CIVIL ENGINEERING * LAND PLANNING * BRIDGE DESIGN
1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

PUEBLO water resources
Pueblo Water Resources
4478 Market St., Suite 705
Ventura, CA 93003
(805) 644-0470

ENERGY DISSIPATOR AND SUMP DETAILS

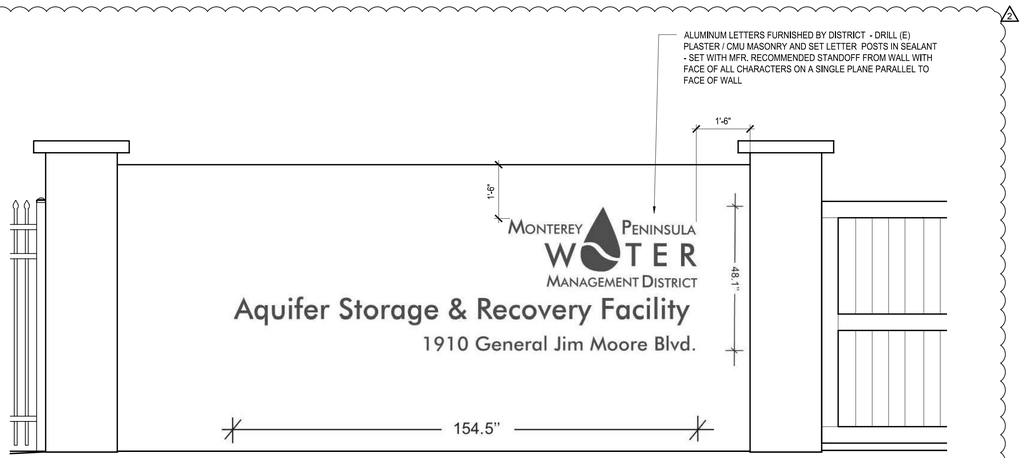
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

SANTA MARGARITA ASR FACILITY SITE EXPANSION
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451

C13

0451UTIL.DWG 04/12/19 08:50:21 AM PDT



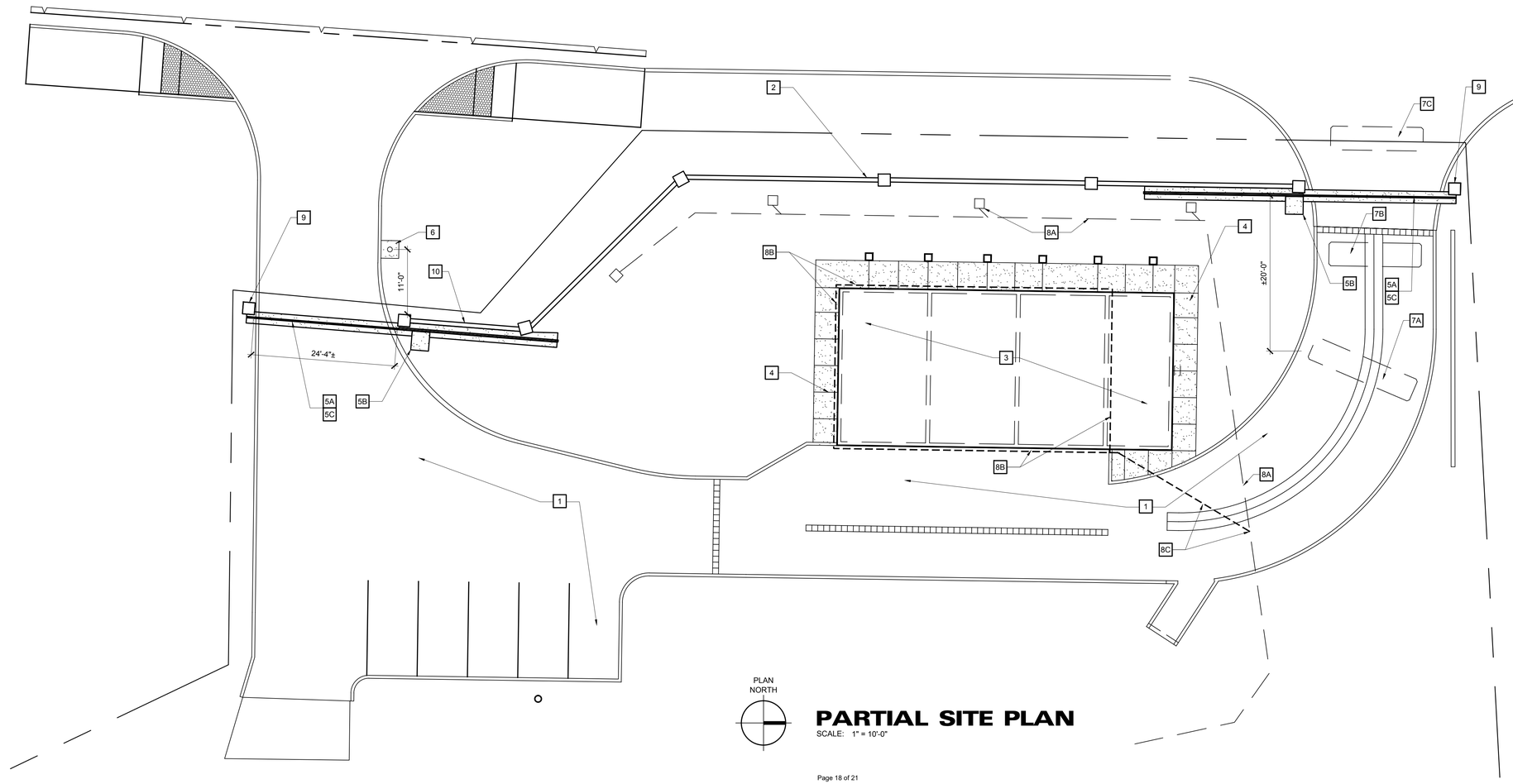
1 **METAL LETTER INSTALLATION @ EXISTING WALL**
SCALE: 1/2"=1'-0"

KEY NOTES

THE KEY NOTES THAT FOLLOW APPLY TO THE DRAWING(S) ON THIS SHEET ONLY. REFER TO FOLLOWING SHEETS FOR NOTES THAT ARE APPLICABLE TO THOSE DRAWINGS.

- 1 NEW BUILDING ACCESS DRIVEWAY INCLUDING 5 PARKING SPACES (2)
- 2 EXISTING WALL AND FENCING
- 3 NEW BUILDING
- 4 NEW CONC. PAVING, SEE DETAIL 1/ A111
- 5 NEW ROLLING GATE
  - 5A CONCRETE / STEEL TRACK, SEE DETAIL 3/A111
  - 5B GATE MOTOR ON CONCRETE PAD, SEE DETAIL 4/A111
  - 5C STEEL TUBE ROLLING GATE WITH WOOD CLADDING, SEE DETAILS 4/A111 AND 5/A111
- 6 SLIDING GATE CONTROL - KEYPAD STATION
- 7 SLIDING GATE CONTROL - SENSOR LOOPS IN DRIVEWAY
  - 7A EXIT LOOP, CAST IN NEW PAVING PER MFR. INSTUCTIONS
  - 7B (4) INSIDE SAFETY LOOP, CAST IN NEW PAVING PER MFR. INSTUCTIONS
  - 7C OUTSIDE SAFETY LOOP, INSTALL IN SAWCUT KERFS IN (E) PAVING PER MFR. INSTUCTIONS
- 8 FOUNDATION SUB DRAIN SYSTEM (1)
  - 8A APPROXIMATE LOCATION OF EXISTING SITE AREA DRAIN SYSTEM
  - 8B NEW SUB DRAIN FOUNDATION PIPE, 4" PERFORATED SCHEDULE 40 PVC PIPE, SEE DETAIL 5/S4.0 FOR INVERT HEIGHT
  - 8C NEW SUB DRAIN DRAINAGE PIPE, 4" SOLID SCHEDULE 40 PVC PIPE, SLOPE 1% MIN. TO P.O.C. AT EXISTING AREA DRAIN SYSTEM PIPE, VERIFY EXACT LOCATION (E) INVERT FOR NEW DRAIN P.O.C. PRIOR TO PROCEEDING WITH ANY NEW DRAIN INSTALLATION WORK
- 9 NEW STAND ALONE COLUMN MATCHING CONSTRUCTION OF EXISTING PILASTER AT OPP. SIDE OF DRIVEWAY, SEE DETAIL 7/A111
- 10 (2) INSTALL METAL LETTERS ON EXISTING WALL, METAL LETTERS FURNISHED BY DISTRICT, SEE ELEVATION 1/A101 (ON THIS SHEET)

GENERAL JIM MOORE BLVD.



PLAN NORTH

PARTIAL SITE PLAN
SCALE: 1" = 10'-0"

WALD RUHNKE & DOST ARCHITECTS LLP
2340 GARDEN ROAD, SUITE 100
MONTEREY, CALIFORNIA 93940
PHONE: 831.649.4642
FAX: 831.649.3530
WWW.WRDARCH.COM

MPWMD SANTA MARGARITA ASR FACILITY
CHLORINATION BUILDING

1910 GENERAL JIM MOORE BLVD.
SEASIDE, CA

JOB NO.: 18014.2
PRINT DATE:
PLOT DATE: 9.5.2019

CHECKED BY: -
SET ISSUED:

60% DESIGN REVIEW	5/17/19
100% DESIGN REVIEW	6/25/19
ISSUED FOR BID	8/5/19
1 BID ADDENDUM #1	8/27/19
2 BID ADDENDUM #2	9/4/19

SHEET NAME: PARTIAL SITE PLAN
SHEET NO.: A101
FILE NAME: 18014.2 A101

GATE NOTES

OPERATOR: LIFTMASTER MODEL SL3000101UL 1 H.P. SINGLE PHASE
GATE CLASS: CLASS III
ENTRAPMENT PROTECTION FOR BOTH OPEN AND CLOSE OPERATION: (1) BUILT INTO OPERATOR AND (2) MONITORED EXTERNAL EDGE SENSOR

GENERAL OPERATION OPTIONS:
1. ENTRY GATE: ELECTRONIC KEYPAD, FOB AND MOBILE DEVICE OPTIONS AND LOCKABLE CONTROL AT INTERIOR OF SITE WALL 6'-0" CLEAR OF ALL GATE COMPONENTS.
2. EXIT GATE: OPERATION BY ELCTONIC LOOP IN PAVEMENT AND LOCKABLE CONTROL AT INTERIOR OF SITE WALL 6'-0" CLEAR OF ALL GATE COMPONENTS
3. ENTRY GATE AND EXIT GATE: PROVIDE LOCKABLE OVERRIDE OF ELECTRONIC OPERATION FOR EMERGENCY MANUAL (PUSH PULL) OPERATION

SUBMITTAL REQUIREMENTS:
1. PRODUCT INFORMATION FOR OPERATOR AND CONTROL SYSTEMS.
2. FULL SYSTEM ELECTRICAL POWER AND LOW VOLTAGE REQUIREMENTS COORDINATED WITH SITE ELECTRICAL INDICATED ON THE ELECTRICAL DRAWINGS.
3. SITE LAYOUT DRAWINGS BASED ON FIELD MEASUREMENTS
4. FULL GATE CONTROL DRAWINGS INCLUDING REMOTE PEDESTAL AND WALL MOUNTED OPERATORS, PAVING LOOP SENSORS, LOCKBOX LOCATIONS, ETC.
5. CONSTRUCTION / FABRICATION DRAWINGS FOR GATE FRAME/ CLADDING, EQUIPMENT PAD, AND GATE TRACK. GATES DRAWINGS SHALL BE PREPARED IN A DELGATED-DESIGN SUBMITTAL PREPARED BY A CONTRACTOR PROVIDED DESIGN PROFESSIONAL INCLUDING A STATEMENT, SIGNED AND SEALED BY THE RESPONSIBLE DESIGN PROFESSIONAL. THE SUBMITTAL SHALL USE AS STRUCTURAL CRITERIA THE BUILDING BASIS OF DESIGN ON STRUCTURAL SHEET S1.0.
6. O AND M MANUALS INCLUDING COMPLETE SYSTEM SEQUENCE OF OPERATION AND OPERATING INSTRUCTIONS AND MINIMUM 4 HOUR TRAINING TIME TO BE ATTENDED BY STAFF AS DESIGNATED BY OWNER.

SAFETY
Safety Installation Information
1. Vehicular gate systems provide convenience and security. Gate systems are comprised of many component parts. The gate operator is only one component. Each gate system is specifically designed for an individual application.
2. Gate operating system designers, installers and users must take into account the possible hazards associated with each individual application. Improperly designed, installed or maintained systems can create risks for the user as well as the bystander. Gate systems design and installation must reduce public exposure to potential hazards.
3. A gate operator can create high levels of force in its function as a component part of a gate system. Therefore, safety features must be incorporated into every design. Specific safety features include:
. Edges Sensors (contact)
. Guards for Exposed Rollers
. Photoelectric Sensors
. Screen Mesh
. Vertical Posts
. Instructional and Precautionary Signage
4. Install the gate operator only when:
a. The operator is appropriate for the construction and the usage class of the gate.
b. All openings of a horizontal slide gate are guarded or screened from the bottom of the gate to a minimum of 6 feet (1.8 m) above the ground to prevent a 2-1/4 inches (6 cm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position.
c. All exposed pinch points are eliminated or guarded, and guarding is supplied for exposed rollers.5. The operator is intended for installation only on gates used for vehicles.
5. Pedestrians must be supplied with a separate access opening. The pedestrian access opening shall be designed to promote pedestrian usage. Locate the gate such that persons will not come in contact with the vehicular gate during the entire path of travel of the vehicular gate.
6. The gate must be installed in a location so that enough clearance is supplied between the gate and adjacent structures when opening and closing to reduce the risk of entrapment.
7. The gate must be properly installed and work freely in both directions prior to the installation of the gate operator.
8. Permanently mounted access controls intended for users to activate, must be located at least 6 feet (1.8 m) away from any moving part of the gate and where the user is prevented from reaching over, under, around or through the gate to operate the controls. Outdoor or easily accessible controls shall have a security feature to prevent unauthorized use. Exception: Emergency access controls only accessible by authorized personnel (e.g. fire, police) may be placed at any location in the line-of-sight of the gate.
9. The Stop and/or Reset must be located in the line-of-sight of the gate. Activation of the reset control shall not cause the operator to start.
10. A minimum of two (2) WARNING SIGNS shall be installed in the area of the gate. Each placard is to be visible by persons located on the side of the gate on which the placard is installed.
11. For a gate operator utilizing a non-contact sensor:
a. Reference owner's manual regarding placement of non-contact sensor for each type of application. See Install Entrapment Protection section.
b. Care shall be exercised to reduce the risk of nuisance tripping, such as when a vehicle trips the sensor while the gate is still moving.
c. One or more non-contact sensors shall be located where the risk of entrapment or obstruction exists, such as the perimeter reachable by a moving gate or barrier.
12. For a gate operator utilizing a contact sensor such as an edge sensor:
a. One or more contact sensors shall be located where the risk of entrapment or obstruction exists, such as at the leading edge, trailing edge and post mounted both inside and outside of a vehicular horizontal slide gate.
b. A hard wired contact sensor shall be located and its wiring arranged so the communication between the sensor and the gate operator is not subject to mechanical damage.
c. A wireless device such as one that transmits radio frequency (RF) signals to the gate operator for entrapment protection functions shall be located where the transmission of the signals are not obstructed or impeded by building structures, natural landscaping or similar obstruction. A wireless device shall function under the intended end-use conditions.

SAFETY
Gate Construction Information
Vehicular gates should be installed in accordance with ASTM F2200: Standard Specification for Automated Vehicular Gate Construction.
1. General Requirements
1.1 Gates shall be constructed in accordance with the provisions given for the appropriate gate type listed, refer to ASTM F2200 for additional gate types.
1.2 Gates shall be designed, constructed and installed to not fall over more than 45 degrees from the vertical plane, when a gate is detached from the supporting hardware.
1.3 Gates shall have smooth bottom edges, with vertical bottom edged protrusions not exceeding 0.50 inches (12.7 mm) when other than the exceptions listed in ASTM F2200.
1.4 The minimum height for barbed tape shall not be less than 8 feet (2.44 m) above grade and for barbed wire shall not be less than 6 feet (1.83 m) above grade.
1.5 An existing gate latch shall be disabled when a manually operated gate is retrofitted with a powered gate operator.
1.6 A gate latch shall not be installed on an automatically operated gate
1.7 Protrusions shall not be permitted on any gate, refer to ASTM F2200 for Exceptions.
1.8 Gates shall be designed, constructed and installed such that their movement shall not be initiated by gravity when an automatic operator is disconnected, in accordance with the following.
1.8.1 Vehicular horizontal slide gate. Shall not result in continuous, unimpeded movement in either lineal direction of its travel.
1.9 For pedestrian access in the vicinity of an automated vehicular gate, a separate pedestrian gate shall be provided. The pedestrian gate shall be installed in a location such that a pedestrian shall not come in contact with a moving vehicular access gate. A pedestrian gate shall not be incorporated into an automated vehicular gate panel.
2. Specific Applications
2.1 Any non-automated gate that is to be automated shall be upgraded to conform to the provisions of this specification,
2.2 This specification shall not apply to gates generally used for pedestrian access and to vehicular gates not to be automated.
2.3 When the gate operator requires replacement, the existing gate shall be upgraded to conform to the provisions of this specification.
2.4 When the gate of an automated gate system requires replacement, the new gate shall conform to the provisions of this specification.

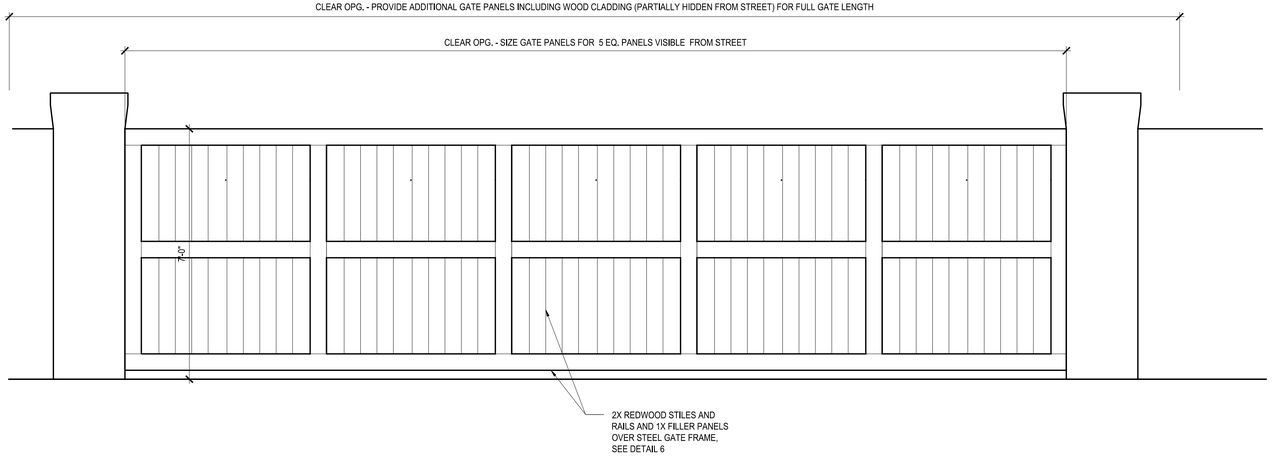
3. Vehicular Horizontal Slide Gates
3.1 The following provisions shall apply to Class I, Class II and Class III vehicular horizontal slide gates:
3.1.1 All weight bearing exposed rollers 8 feet (2.44 m), or less, above grade shall be guarded or covered.
3.1.2 All openings shall be designed, guarded, or screened from the bottom of the gate to the top of the gate or a minimum of 6 ft. (1.83 m) above grade, whichever is less, to prevent a 2 1/4 in. (57 mm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position. The gate panel shall include the entire section of the moving gate,including any back frame or counterbalance portion of the gate.

3.1.3 A gap, measured in the horizontal plane parallel to the roadway, between a fixed stationary object nearest the roadway, (such as a gate support post) and the gate frame when the gate is in either the fully open position or the fully closed position, shall not exceed 2 1/4 inches (57 mm). Exception: All other fixed stationary objects greater than 16 in. (406 mm) from the gate frame shall not be required to comply with this section.
3.1.4 Positive stops shall be required to limit travel to the designed fully open and fully closed positions. These stops shall be installed at either the top of the gate, or at the bottom of the gate where such stops shall horizontally or vertically project no more than is required to perform their intended function.
3.1.5 All gates shall be designed with sufficient lateral stability to assure that the gate will enter a receiver guide, refer to ASTM F2200 for panel types.
3.2 The following provisions shall apply to Class IV vehicular horizontal slide gates:
3.2.1 All weight bearing exposed rollers 8 feet (2.44 m), or less, above grade shall be guarded or covered.
3.2.2 Positive stops shall be required to limit travel to the designed fully open and fully closed positions. These stops shall be installed at either the top of the gate, or at the bottom of the gate where such stops shall horizontally or vertically project no more than is required to perform their intended function.

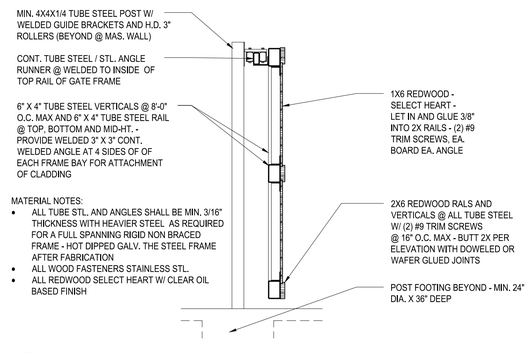
SLIDING GATE SYSTEM ADDITIONAL SPECIFICATIONS
1. Submit complete shop drawings including list of equipment, material layout and anchorage of equipment and relationship to other parts of the work, including foundation and clearances for maintenance and operation.
2. Submit Operations and Maintenance Manual prior to installation.
3. Submit Operating Instructions including step by step procedures required for system startup, operation, and shut down prior to installation.
4. Sliding Gate System warranty: Provide 10 year warranty against defects in materials and workmanship.
5. Gate Foundation: 3000 psi concrete, indicate layout and relationship to walls and other site elements. Indicate footing dimensions and depths, footing reinforcing and embedded items.
6. Gate Frame and Supports: Indicate fabrication details including welds, fasteners and finishes. Indicate welded steel gate frame and all other components including tracks, wheels, stanchions, guide supports and miscellaneous hardware with all construction and hardware meeting UL325 and ASTM F2200 Standards.
7. Test completed system for proper performance and operate for a sufficient period of time to determine installation is fully complete and in proper working order.
8. Provide minimum 4 hours training with Owner to explain Operations and Maintenance Manuals and other instructions to ensure Owner representative is clear with regard to safety points, operational guidelines and safety features of the system.

32 13 00-017.DWG

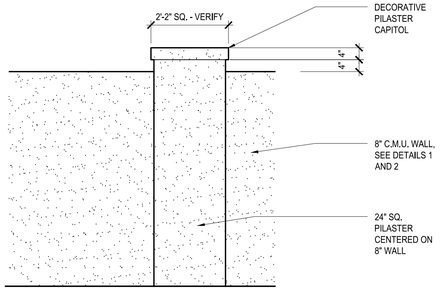
4 ROLLING GATE NOTES
SCALE: NONE



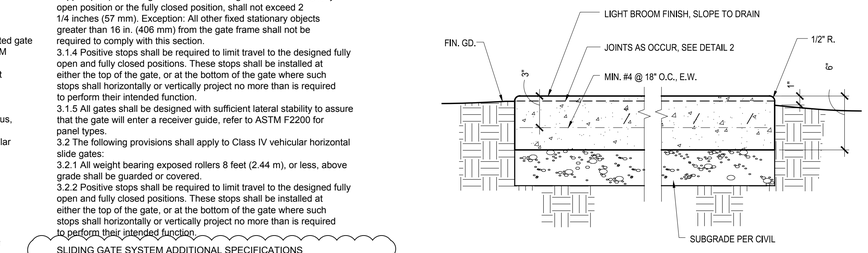
5 GATE ELEVATION
SCALE: 1/2"=1'-0"



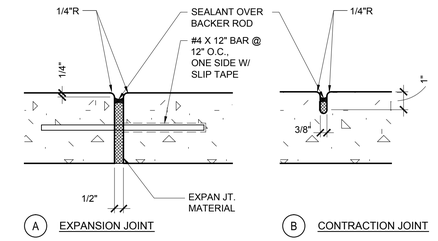
6 GATE PANEL SECTION
SCALE: 1/2"=1'-0"



7 (E) INTERMEDIATE PILASTER - (N) STAND-ALONE COL. SIMILAR
SCALE: 1/2"=1'-0"



1 CONC. PAVING
SCALE: 1-1/2" = 1'-0"



JOINTS IN CONCRETE FLATWORK (CONCRETE PAVING)

CONCRETE FLATWORK SHALL BE DIVIDED INTO APPROXIMATELY SQUARE PANELS WITH CONTRACTION JOINTS OR EXPANSION JOINTS PER BELOW - PROVIDE EXPANSION JOINTS AT COLD JOINTS AND WHEREVER CONCRETE FLATWORK TERMINATES AT BUILDING WALLS, SITE WALL AND OTHER FLATWOK TERMINATIONS.

CONTRACTION JOINTS (SCORED JOINTS, S.J.)

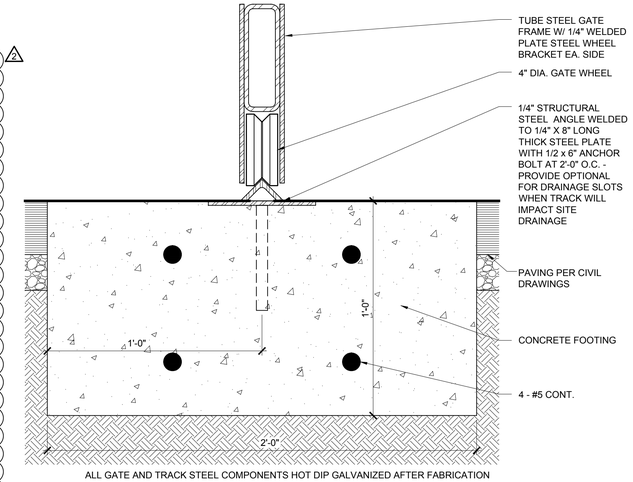
FORM WEAKENED PLANE JOINTS IN FRESH CONCRETE BY GROOVING TOP PORTION ONE QUARTER THE THICKNESS OF THE CONCRETE WITH A RECOMMENDED CUTTING TOOL AND FINISHING EDGES WITH A JOINTER.

EXPANSION JOINTS (E.J.)

PROVIDE EXPANSION JOINTS FULL DEPTH OF THE CONCRETE AT MINIMUM 15' O.C. TO MAXIMUM 20' O.C. TO MATCH EQUAL SPACING SECTIONS OF (CONTRACTION) JOINTS TO PROVIDE A UNIFORM PATTERN.

32 13 00-017.DWG

2 CONCRETE JOINTS AND NOTES
SCALE: NONE



ALL GATE AND TRACK STEEL COMPONENTS HOT DIP GALVANIZED AFTER FABRICATION

3 TRACK AT DRIVE GATE
SCALE: 3" = 1'-0"

WALD RUHNKE & DOST ARCHITECTS LLP
2340 GARDEN ROAD, SUITE 100
MONTEREY, CALIFORNIA 93940
PHONE: 831.649.4642
FAX: 831.649.3530
WWW.WRDARCH.COM

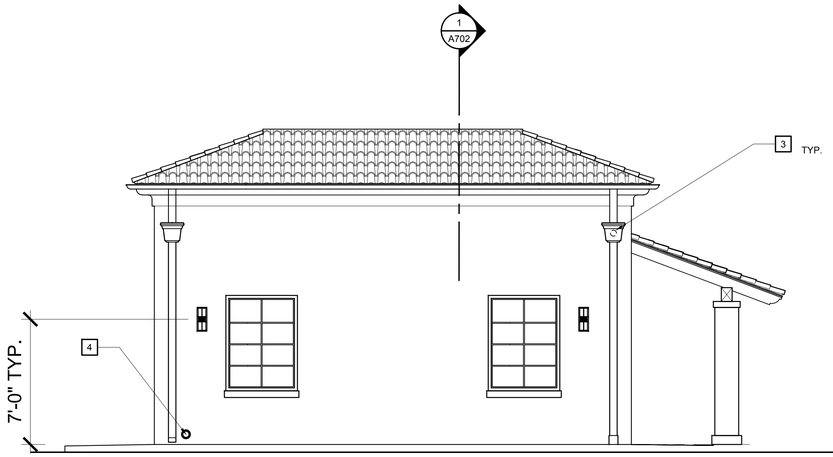
MPWMD SANTA MARGARITA ASR FACILITY
CHLORINATION BUILDING

1910 GENERAL JIM MOORE BLVD.
SEASIDE, CA

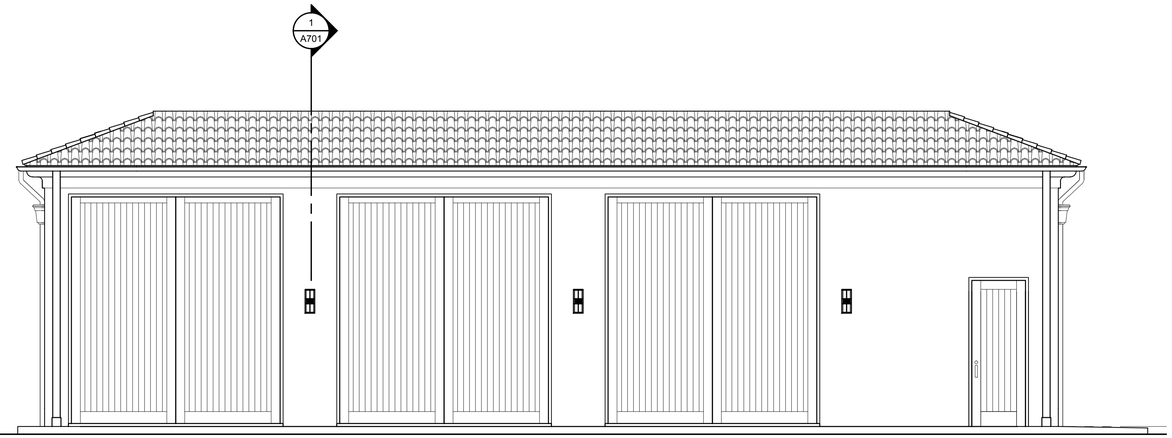
JOB NO.: 18014.2
PRINT DATE:
PLOT DATE: 9.5.2019
CHECKED BY: -
SET ISSUED:

60% DESIGN REVIEW	5/17/19
100% DESIGN REVIEW	6/25/19
ISSUED FOR BID	8/5/19
2 BID ADDENDUM #2	9/4/19

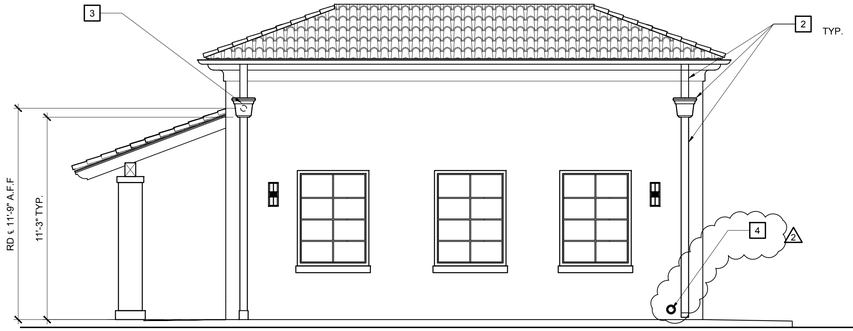
SHEET NAME: SITE DETAILS
SHEET NO.: A111
FILE NAME: 18014.2 A111



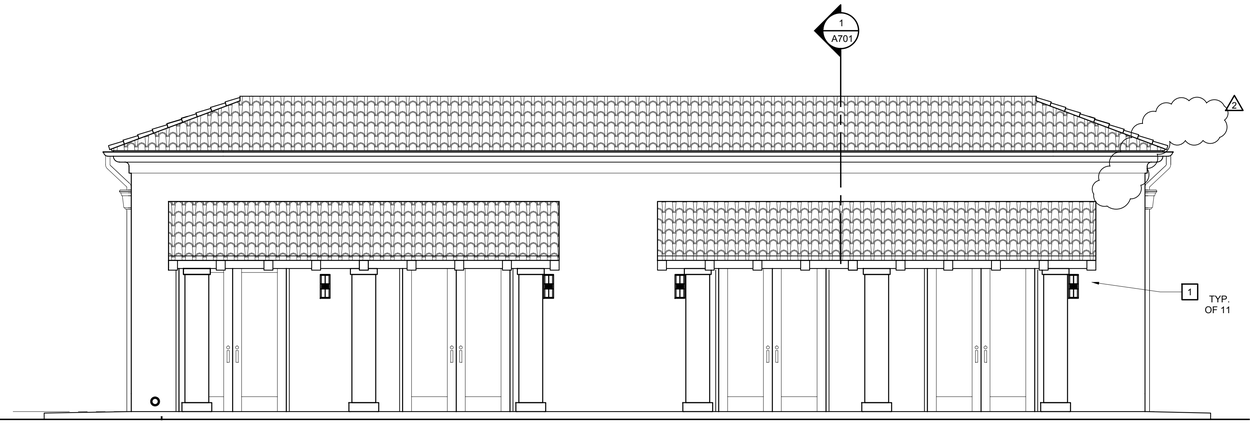
1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



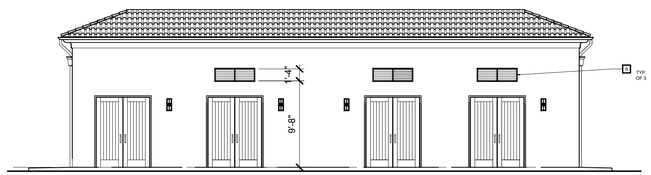
2 EAST ELEVATION
SCALE: 1/4" = 1'-0"



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



4 WEST ELEVATION
SCALE: 1/4" = 1'-0"



5 WEST ELEVATION @ WALL
SCALE: 1/8" = 1'-0"

KEY NOTES

THE KEY NOTES THAT FOLLOW APPLY TO THE DRAWING(S) ON THIS SHEET ONLY. REFER TO FOLLOWING SHEETS FOR NOTES THAT ARE APPLICABLE TO THOSE DRAWINGS.

1. WALL MOUNTED LIGHTING FIXTURE, SEE FLOOR PLAN
2. COPPER GUTTER / CONDUCTOR HEAD / DOWNSPOUT SYSTEM, SEE ROOF PLAN
3. ROOF DRAIN LEADER THROUGH WALL INTO BACK OF CONDUCTOR HEAD, SEE ROOF PLAN
4. OVERFLOW ROOF DRAIN LEADER TROUGH WALL INSIDE CLAY TILE PIPE, SEE ROOF PLAN
5. MECHANICAL LOUVER, SEE MECHANICAL DRAWINGS FOR SPECIFICATION

WALD RUHNKE & DOST ARCHITECTS LLP
2340 GARDEN ROAD, SUITE 100
MONTEREY, CALIFORNIA 93940
PHONE: 831.649.4642
FAX: 831.649.3530
WWW.WRDARCH.COM

MPWMD SANTA MARGARITA ASR FACILITY
CHLORINATION BUILDING

1910 GENERAL JIM MOORE BLVD.
SEASIDE, CA

JOB NO.: 18014.2

PRINT DATE:

PLOT DATE: 9.5.2019

CHECKED BY: -

SET ISSUED:

60% DESIGN REVIEW	5/17/19
100% DESIGN REVIEW	6/25/19
ISSUED FOR BID	8/5/19
2 BID ADDENDUM #2	9/4/19

SHEET NAME: EXTERIOR ELEVATIONS

SHEET NO.: A401

FILE NAME: 18014.2 A401

End of Addendum No. 2