

**SAUSALITO-MARIN CITY SANITARY DISTRICT**  
**SOUTH PRIMARY CLARIFIER REHABILITATION PROJECT**

**Addendum No. 2**

The following shall modify the Contract Documents. The work shall be accomplished in accordance with such modifications. It is required that this addendum be attached to the Specifications.

**IMPORTANT: Receipt of this Addendum must be acknowledged in the space provided on the Bid form when your bid is submitted. Failure to acknowledge receipt of this addendum may constitute grounds for rejection of the bid.**

**Addendum Items:**

**Item 2.1: Bidder Questions:**

- Q1: Please clarify whether or not the exterior of the clarifier requires painting.  
A1: Yes, the exterior of the existing clarifier structure shall be coated in accordance with Section 09960, Protective Coatings. All exterior concrete structures are to be coated in accordance with System C (ACU). Prep includes removal of ivy and/or other plants and debris.
- Q2: Section 11147, 2.5, A and B; Specification requires TEFC motors, however, existing motors are TEXP to meet Class 1, Division 1 (NFPA/explosion proof). Please confirm if pump location is classified as Class 1, Division 1.  
A2: Yes, any motors and or electrical devices located within 10 feet of a digester wall must be classified for such locations. Consequently, the motors have to be rated TEXP to match existing motors and also to comply with NFPA 820 and NEC.
- Q3: Section 11147 does not call out thermal overloads and space heaters, but existing units have these motor accessories. Please confirm if thermal overloads and space heaters are required in our bid.  
A3: Yes, motor thermal/temperature switches and space heaters are required.
- Q4: Please confirm if the motors should include AEGIS shaft grounding rings (sometimes used when pumps are run off VFDs to protect the pump shaft and bearings from pitting due to stray currents). The existing pumps do NOT have shaft grounding rings.

- A4: No, grounding rings are not required as the starters for these pumps/motors are not VFDs.
- Q5: Section 11147, 2.9.A calls out 2 discs, 2 trunnion seals, 2 sets of gaskets and one control valve. Is this a typo and should refer to a clack valve (foot valve)?
- A5: No control valves or the like are needed.
- Q6: Grade of stainless steel question: The existing pumps that are being replaced on this project had 304SS frames and guards. HOWEVER, Addendum #1, Item 1.1 mentions all hardware, pipe supports, brackets, hangers, control panels pedestals, etc. shall be 316SS. Is our pump skid frame a pedestal? Does it require 304SS or 316SS?
- A6: The frames may be 304 SS. In general, heavy/thick parts can be 304 or 316 SS.
- Q7: Section 11147, 2.5.B calls our an 1800 RPM motor. Can this be changed to 1200 RMP?
- A7: 1200 RPM is correct where a six pole motor is specified.
- Q8: What are the bypass requirements for gate installation at the Headworks?
- A8: The District will divert flow to support gate work in the Headworks. Cleaning will be required but no bypass system will be required by the Contractor. This work should be expedited during normal construction hours to minimize the time flow is diverted. Note that the effluent box referenced in Note 8 on Drawing D-5 is located below the gate location but will remain filled with sewer.
- Q9: Drawing M200-3: Is there a new grout floor for the clarifier.
- A9: Yes, the floor will be re-grouted to match the new equipment.
- Q10: Are existing anchor bolts to be re-used for the center column of the clarifier mechanism.
- A10: No, all anchorage is new and is included in the project scope.
- Q11: Paragraph 3.3 in Spec Section 16950 Electrical Testing references Spec Section 16938, "Short Circuit and Coordination Studies." However, this section is not included. Is a short circuit study required?
- A11: No, this section is not applicable as the short circuit study has been moved to another project. Section 16938 is not applicable.

**Item 2.2:** Drawing Corrections/Clarifications:

- A. On Drawing E-2, Detail A, revise circuits MCC-P1-408, 409 and 410 to show "**3#12, #12 GND – 5#14 – 3/4”C**" for each circuit. In addition, add Sheet Note 10 to require, "**New LOS for each new motor shall be explosion proof LOS (NEMA 8)**".
- B. On Drawing E-4, Delete Note 2 at bottom left of sheet stating, "See Specifications (Section 16860) for detailed requirements." This section does not exist.

- C. On Drawing E-9, Detail E, add Sheet Note 10 for existing LOS PCSTP North stating, “**Replace existing LOS with a new explosion proof LOS (NEMA 8)**”.
- D. On Drawing E-10, Detail E, add Sheet Note 10 for existing LOS PCSTP South stating, “**Replace existing LOS with a new explosion proof LOS (NEMA 8)**”.

**Item 2.3:** Piping Systems: Contractor shall install piping, valves and supports as necessary to facilitate pumping out of the District’s existing chlorine contact tanks. The majority of piping work is located under the treatment plant causeway which is accessible by a manhole. While there is room for installation, the Contractor will be required to work around existing piping and hangers with limited space. In addition, piping is to be added under causeway to connect 2 existing sump pumps to an existing catch basin. Work at this location is also under the causeway but with improved access. See photos and drawings provided in attachment, “**Addenda Item 2.3.**”

**Item 2.4:** Bid Schedule: Contractor shall submit all bids using the Bid Schedule provided in “**Addenda Item 2.4**” which includes 1 additional Bid item for Addenda item 2.3.

See Section 400, Bid Form. This addenda item replaces the Bid Schedule only (Paragraph III). All other requirements of Section 400 remain applicable.

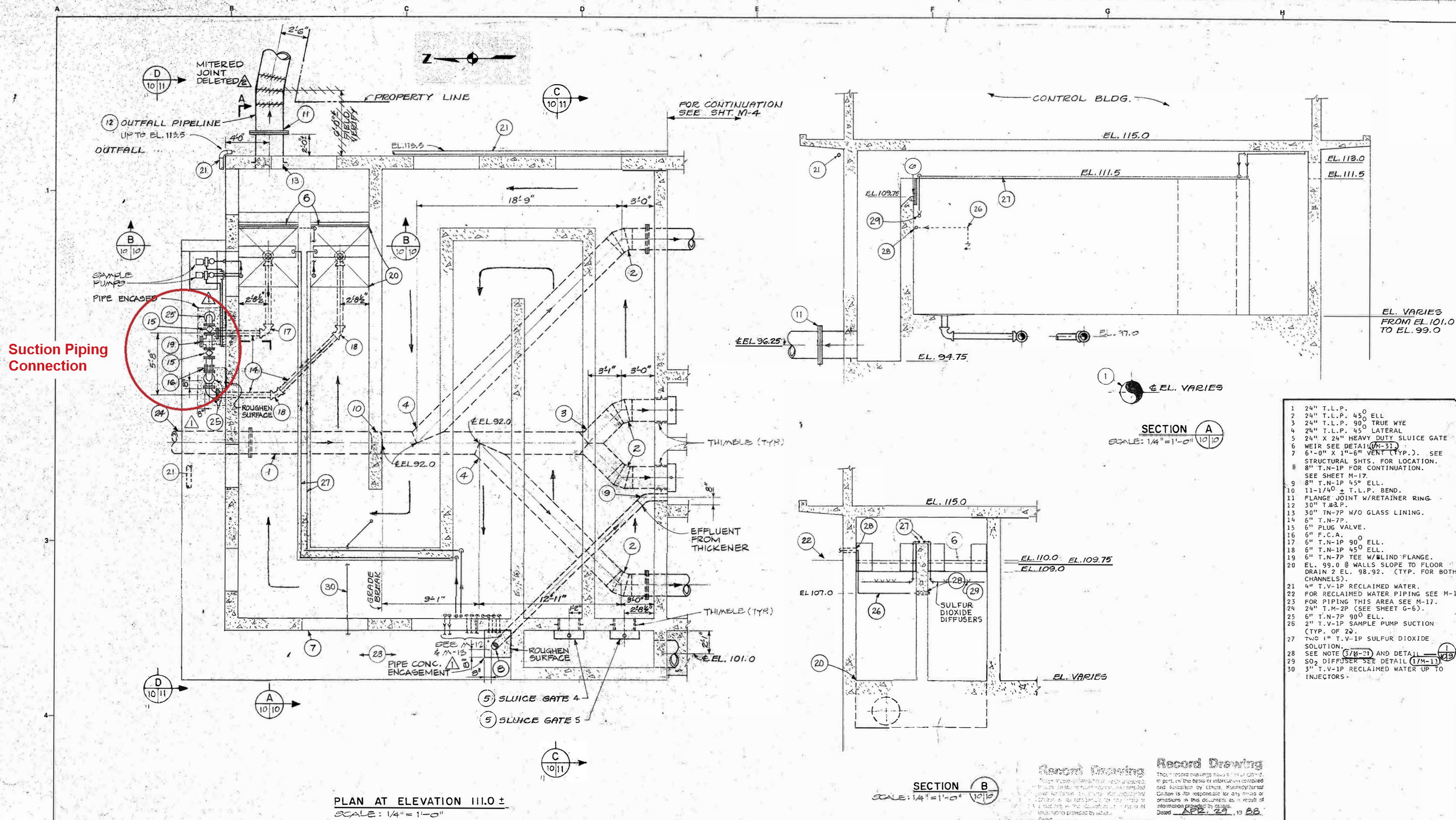
**This Addendum No. 2 shall become part of the Contract and all provisions of the Contract shall apply thereto.**

## **Addenda Item 2.3**

### **Piping Systems**

1. Contractor shall perform the following work as described to install piping for the chlorine contact tanks:
  - A. Adjust existing suction piping elbows to face each other and install valves and piping as shown on reference drawing M-10. ("Chlorine Contact Structure Plan and Sections") Piping includes 2 – 6" plug valves, 1 FCA, 1 - 6" Tee and piping spools as needed to connect both lines. One of the existing flange-to-camlock spools is to be mounted on the Tee, and the second is to be returned to Owner.
  - B. Suction piping (outlined in A. above) shall be 6" coated ductile iron as detailed in project specifications.
  - C. Discharge piping is to be installed near suction piping and routed through the causeway using a core drill. Piping shall be installed in the core using a link seal for 4" piping. The link seal shall be grouted on top, flush with surface.
  - D. Discharge piping shall be 4" Schedule 80 PVC. All piping shall be supported from the ceiling of the causeway and spaced as required by project specifications. Total distance is approximately 70'.
  - E. The 4" discharge pipe shall be connected to an existing 6" Schedule 80 PVC pipe. The discharge pipe shall include a plug valve and check valve near the connection point, fully supported from the causeway.
  
2. Contractor shall perform the following work as described to install sump pump piping:
  - A. Install 2" Schedule 80 PVC piping and pipe supports under causeway as required to tie existing sump pumps (2) to existing storm drain catch basin. Each pump shall be routed separately to the catch basin. The total length of piping is approximately 50' for each pump.
  - B. Piping shall attach to a 2" NPT fitting on each of pump.
  - C. 2" true-union Schedule 80 PVC ball check valves shall be installed on the vertical section of each pipe run.
  - D. Schedule 80 PVC bulkhead fittings shall be installed on an existing FRP catch basin.

# CHLORINE CONTACT TANK PUMP-OUT



Revised	Description	Submit.	Appr'd	Date
FIELD CHANGE CO NO. 34				

Reference Information and Notes:

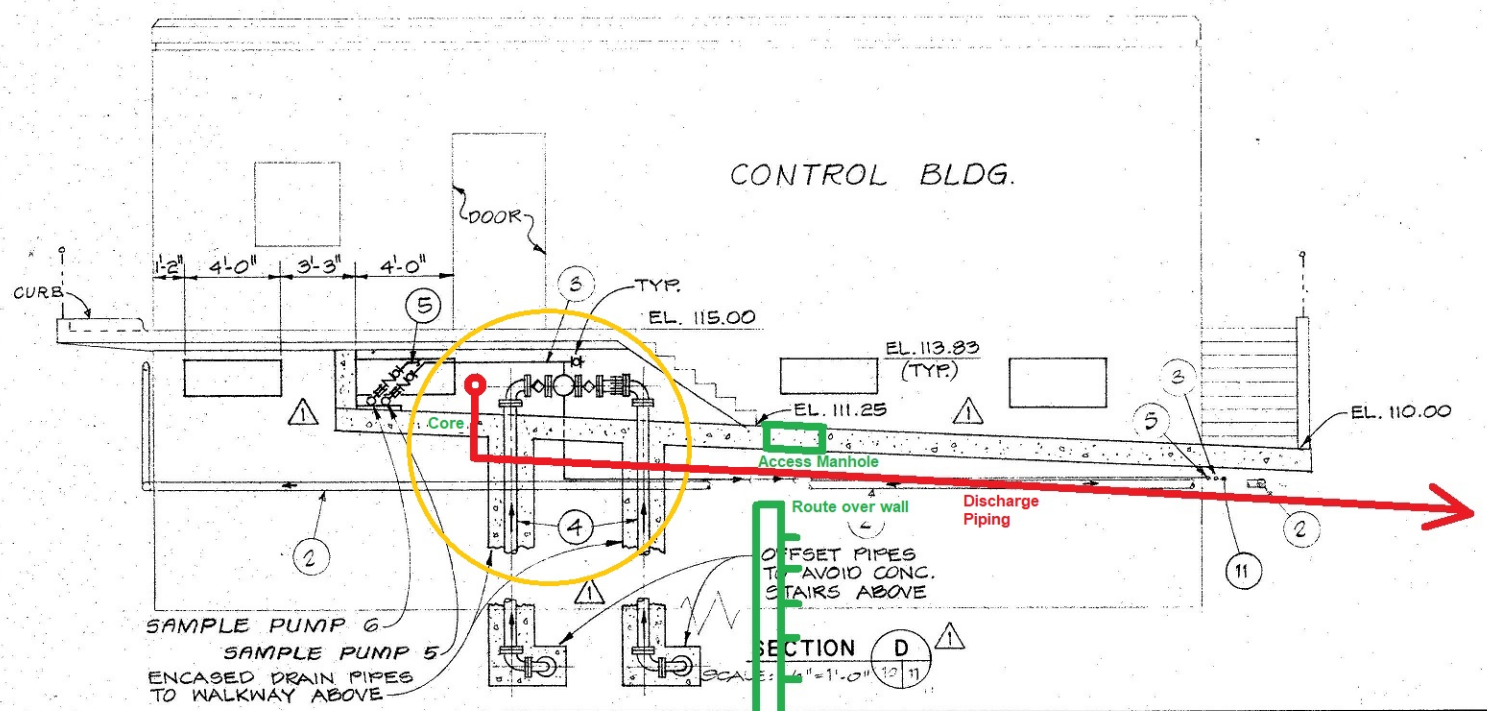
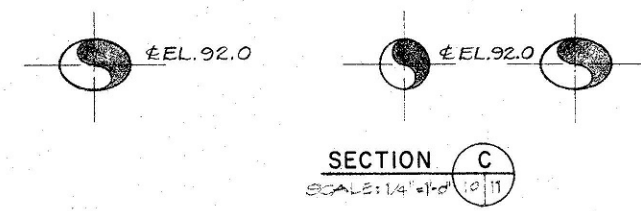
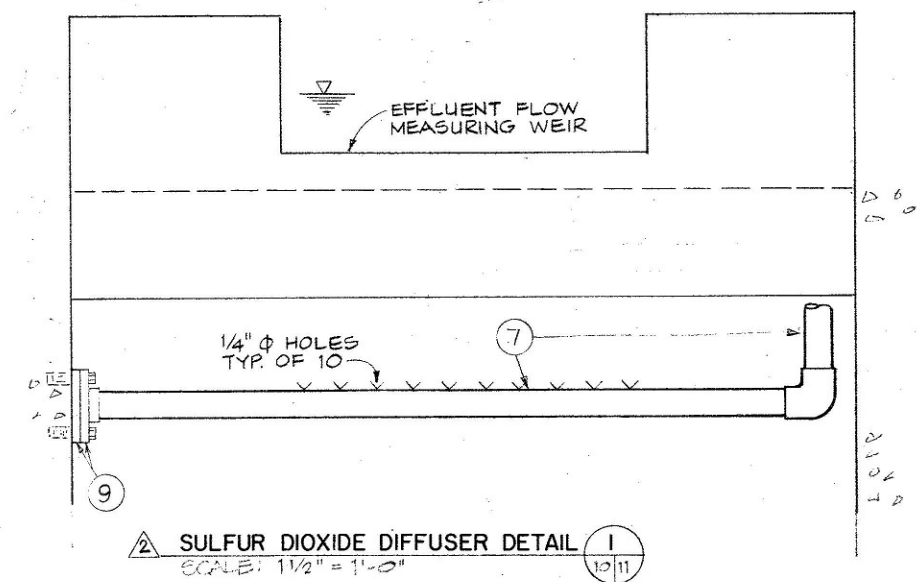
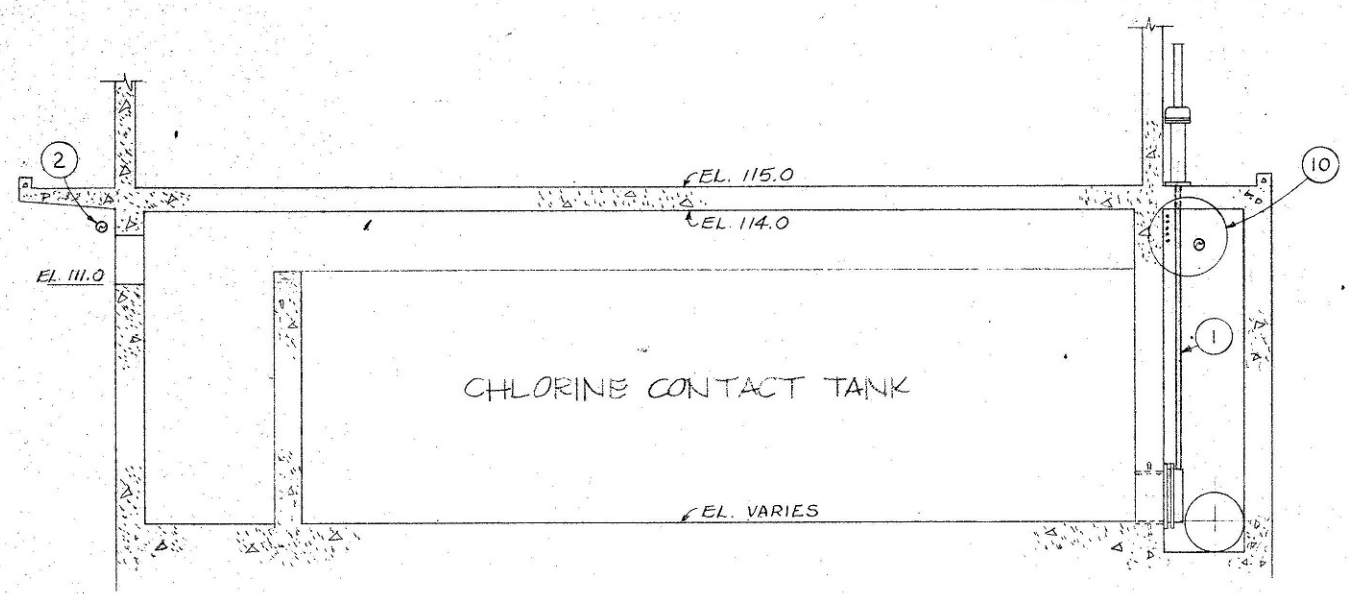
FOR TYPICAL EQUIPMENT ANCHORAGE SEE SHEET M-21

REFER TO THE NOTE WITH THIS NUMBER

Designed JHF/JAF	<b>Wastewater Plant Improvements C-06-2464</b>	San Francisco
Drawn AM/JHF	<b>Sausalito - Marin City Sanitary District</b>	
Checked JHF	Kennedy/Jenks Engineers	Submitted: <i>[Signature]</i>
Date 1-28-81	Approved: <i>[Signature]</i>	

<b>CHLORINE CONTACT STRUCTURE</b>	Scale 1/4" = 1'-0"
<b>PLAN AND SECTIONS</b>	Job No. 0112
	Sheet <b>M-10</b>



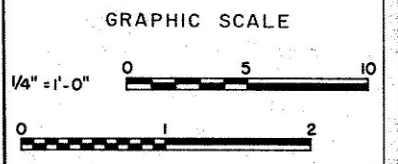


- 1 30" X 30" SLUICE GAGE W/WALL THIMBLE. SEE SPECS.
- 2 4" T.V.-1P REC. WATER.
- 3 3/4" T.V.-1P SAMPLE S.
- 4 4" T.N-7P TANK DRAIN.
- 5 3/4" T.V.-1P SAMPLE S.
- 6 SEE NOTE 3/M-21 AND DETAIL
- 7 2" T.V.-1P
- 8 3/16" Ø IN BOTTOM OF PIPE. TYPICAL OF 10.
- 9 2" T.V.-1P. SOLVENT WELD BLIND FLANGE TO FLANGE. ATTACH TO WALL W/4 - 1/4"
- 10 316 SS SLEEVE ANCHORS. FOR PIPING SEE M-12.
- 11 1/4" TV-1P INSTRUMENT AIR TO BUBBLER PANEL 3. SEE ELECTRICAL DWGS.

2 SULFUR DIOXIDE DIFFUSER DETAIL 1  
SCALE: 1/2" = 1'-0"

SECTION D  
SCALE: 1/4" = 1'-0"

**Record Drawing**  
These record drawings have been prepared in accordance with the provisions of the Public Works Act and are the property of the City of San Francisco. They are not to be used for any other purpose without the express written permission of the City Engineer.  
Date: APR 29 1988



FIELD CHANGE CO NO. 34		Submit:	App'd:	Date:
Revised	Description	Submit:	App'd:	Date:
Refer to Tracing for Latest Revision				

Reference Information and Notes:  
Existing Sea Wall With Steps

FOR TYPICAL EQUIPMENT ANCHORAGE SEE SHEET M-24  
REFER TO THE NOTE WITH THIS NUMBER

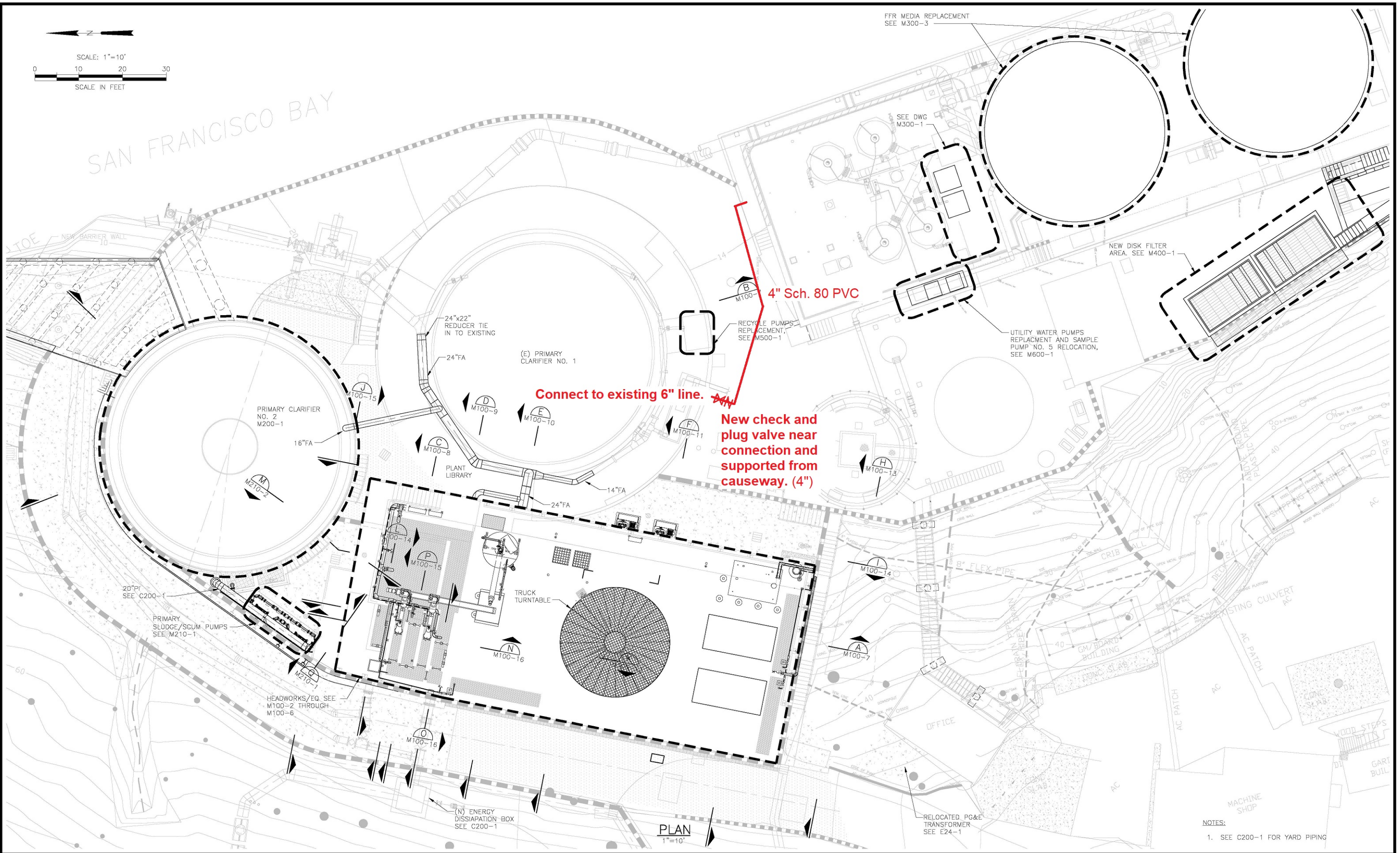
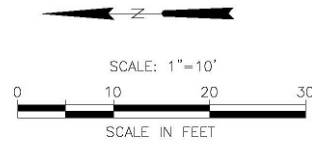
Designed: JHF/JAF  
Drawn: AM/JHF  
Checked: JHF  
Date: 1-29-81

Wastewater Plant Improvements C-06-2464  
Sausalito - Marin City Sanitary District

KennedyJenks Engineers San Francisco  
Submitted: [Signature] Approved: [Signature]

CHLORINE CONTACT STRUCTURE SECTIONS

Scale: 1/4" = 1'-0"  
Job No. 0112  
Sheet M-11 of



NOTES:  
1. SEE C200-1 FOR YARD PIPING

PLAN  
1"=10'

**RECORD DRAWING**  
THIS RECORD DRAWING HAS BEEN PREPARED FROM THE ORIGINAL CONTRACT DOCUMENTS SIGNED AND SEALED BY THE RESPONSIBLE ENGINEER OF RECORD. ADDITIONAL INFORMATION HAS BEEN PROVIDED BY OTHERS TO REPRESENT AS-CONSTRUCTED CONDITION AND IS SHOWN ON THESE RECORD DRAWINGS. THE RESPONSIBLE ENGINEER OF RECORD CANNOT VERIFY THE ACCURACY OF THE AS-CONSTRUCTED CONDITION INFORMATION REPRESENTED ON THE RECORD DRAWINGS.

0"=1" 1"  
VERIFY SCALES -  
BAR IS ONE INCH  
LONG ON FULL  
SIZE DRAWING.  
IF NOT ONE INCH  
LONG ON THIS  
DRAWING, ADJUST  
SCALES ACCORDINGLY



REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED M. TAKEMOTO  
DRAWN S. NGUYEN  
CHECKED M. NAKAMOTO

SUBMITTED: MARK TAKEMOTO  
RMC PROJECT ENGINEER CB-64369  
APPROVED: STEVE CLARY  
RMC ENGINEER CB-30318



TREATMENT AND WET WEATHER FLOW UPGRADE  
**OVERALL SITE PLAN**

DWG NO M100-1  
SHEET NO 124 OF 226  
PROJ NO 055-006  
DATE JULY 2022

FILENAME: 055-006-M100-1\_8-01-22\_11:30am.dwg XREFS: X-SMCSO-IBLK X-Treatment Plant Site Plan X-Station X-Topo Survey new X-Site X-HEADWORKS-PLAN 055-006-M100-5 (cc-






Access point via MH



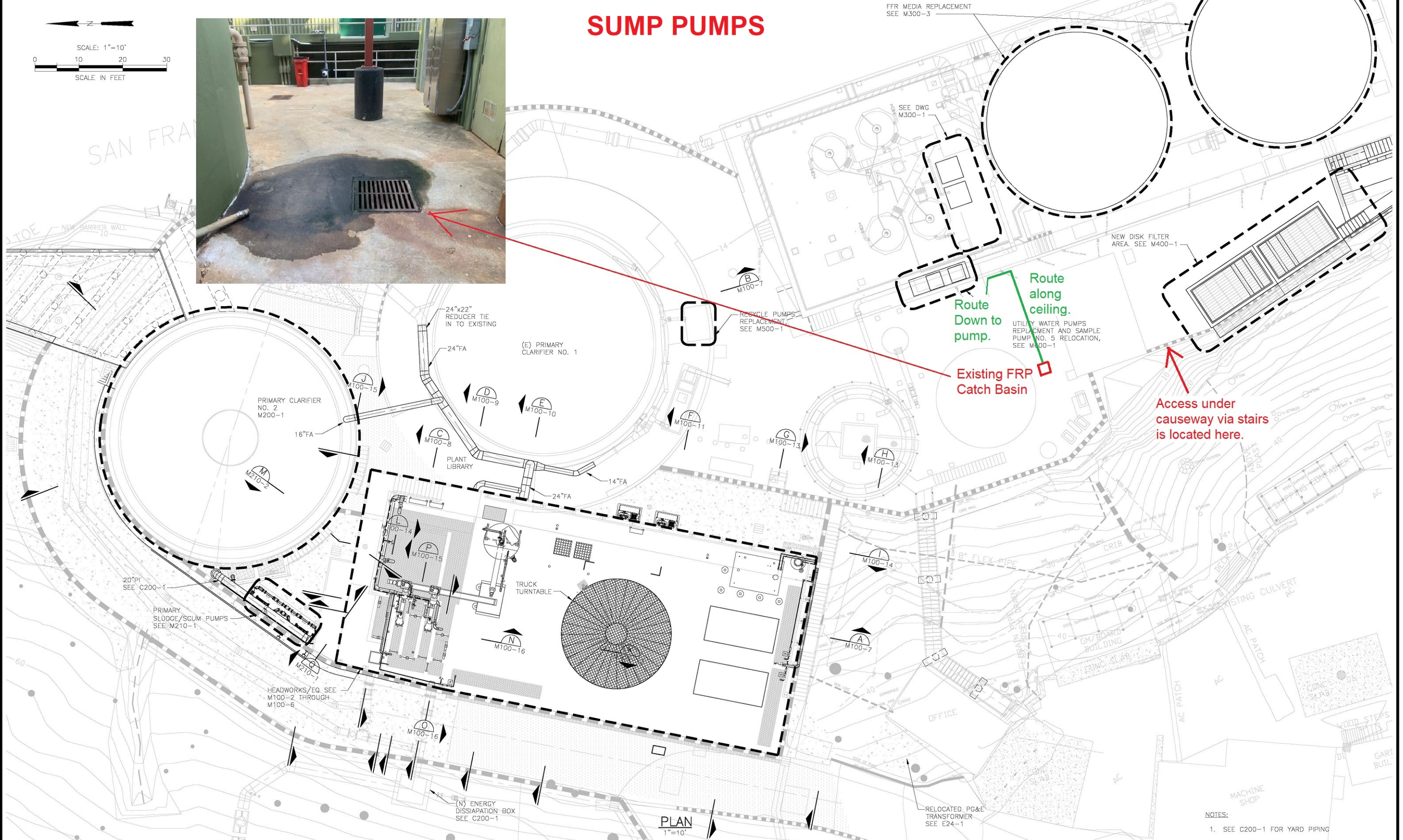
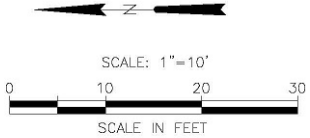
Piping Route is crowded.

A photograph of a large, grey industrial pipe in a dark, confined space. The pipe runs horizontally from the foreground towards the background. A smaller, 4-inch diameter pipe is connected to the side of the main pipe. In the background, there are other pipes, valves, and a handwheel. The floor is dirt and gravel. A red text overlay is at the bottom left.

Connection Point  
for 4" Discharge  
Piping.

# SUMP PUMPS

FFR MEDIA REPLACEMENT  
SEE M300-3



PLAN  
1"=10'

NOTES:  
1. SEE C200-1 FOR YARD PIPING

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0"=1" 1"  
VERIFY SCALES -  
BAR IS ONE INCH  
LONG ON FULL  
SIZE DRAWING.  
IF NOT ONE INCH  
LONG ON THIS  
DRAWING, ADJUST  
SCALES ACCORDINGLY



REV	DATE	BY	APVD	DESCRIPTION
1	07/22	CT	TV	RECORD DRAWING

DESIGNED	M. TAKEMOTO	SUBMITTED	MARK TAKEMOTO
DRAWN	S. NGUYEN	RMC PROJECT ENGINEER	CE-64369
CHECKED	M. NAKAMOTO	APPROVED:	STEVE CLARY
		RMC ENGINEER	CE-30318



TREATMENT AND WET WEATHER FLOW UPGRADE  
**OVERALL SITE PLAN**

DWG NO	M100-1
SHEET NO	124 OF 226
PROJ NO	055-006
DATE	JULY 2022

## **Addenda Item 2.4**

### **BID FORM INCLUDING ADDENDA 1 & ADDENDA 2**

Contractor shall use the attached bid form when submitting a bid for the project. The attached bid form has been updated to include all additional bid items from Addenda 1 and Addenda 2.

## **ADDENDA ITEM 2.4 – BID SCHEDULE**

Replace Paragraph III, BID SCHEDULE, of Section 400 with the following:

### **III BID SCHEDULE**

Pursuant to your published Invitation for Bids for the above-referenced project, and in accordance with the approved Plans and Specifications for that project, the following Bid for said entire project is submitted by the firm indicated on this Bid Form.

The undersigned Bidder proposes and agrees to contract with the District to perform all of the above work, including subsidiary obligations as defined in the Contract Documents for the prices indicated in the BID SCHEDULE below.

Pursuant to the provisions of the California Labor Code Section 6707, each bid submitted shall contain, in the bid, the amount included for adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life and limb in trenches and open excavation, which shall conform to applicable safety orders. By listing this sum in base bid item 2 below, the Bidder warrants that its action does not convey tort liability to the Owner, the Engineer, the Construction Manager, and other employees, agents, and subconsultants.

Further in submitting its Bid, the undersigned Bidder understands and agrees that that the Total Bid Price are each determined by the sum total of all respective bid item amounts in the applicable Bid Schedule shown below. In the event the addition of the bid item extended amounts does not equal the Total Bid Price the corrected addition of all bid item extended amounts will govern and the Owner will correct the respective total(s) accordingly. In case of discrepancy between words and figures, words will prevail.

Bid Items are further described in Section 01200, Measurement and Payment, and in Addenda 1.

### **BID SCHEDULE**

Bid Items				
Item	Description	Approx. quantity	Unit	Total bid item price, dollars
1	Mobilization/Demobilization including SWPPP (not to exceed 6% of Total Bid Price)	1 Job	L.S.	
2	Sheeting, shoring, and bracing, or equivalent method for the protection of life and limb in trenches and open excavations, pursuant to California Labor Code Sections 6705 and 6707.	1 Job	L.S.	
3	All Work associated with the rehabilitation of the South Primary Clarifier	1 Job	L.S.	
4	All Work associated with the replacement of the scum/sludge pump stations	1 Job	L.S.	

Bid Items				
Item	Description	Approx. quantity	Unit	Total bid item price, dollars
5	All Work associated with replacement of the existing stop gates with new slide gates at the headworks.	1 Job	L.S.	
6	All other Work in accordance with the Contract Documents	1 Job	L.S.	
7	<b>Addenda Item 1.2:</b> Demolish thickener mixer	1 Job	L.S.	
---	<b>Addenda Item 1.3:</b> Painting	---	---	---
8	1.3.1 - Painting of North Chemical Building	1 Job	L.S.	
9	1.3.2 - Painting of Equipment Room	1 Job	L.S.	
10	1.3.3 - Painting of Main Street Pump Station	1 Job	L.S.	
11	1.3.4 - Painting of Main Street Fuel Tank	1 Job	L.S.	
12	<b>Addenda Item 2.3:</b> Piping Systems	1 Job	L.S.	

TOTAL BID PRICE (Items 1 through 12) \$\_\_\_\_\_

TOTAL BID PRICE (in words)\_\_\_\_\_

**Bid prices shall include everything necessary for the completion of the work stipulated in the Contract Documents, including but not limited to providing the materials, equipment, tools, plant and other facilities, and the management, superintendence, labor and services. Bid prices shall include all federal, state and local taxes.**

The lowest bid will be based on the Total Bid Price. Bid prices shall include everything necessary for the completion of the work stipulated in the Contract Documents, including but not limited to providing the materials, equipment, tools, plant and other facilities, and the management, superintendence, labor and services. Bid prices shall include all federal, state and local taxes.