

DOCUMENT 00911

ADDENDUM NUMBER 1

Issued: Tuesday, September 13, 2016

Ralphine Tanks Flow-Through Conversion

FROM: Sonoma County Water Agency
404 Aviation Boulevard
Santa Rosa, CA 95403-9019

TO: Prospective Bidders

This Addendum forms a part of and modifies the Project Manual dated September 2016 [note: date corrected below]. Bidder shall acknowledge receipt of this Addendum in the space provided in Document 00400 (Bid Form).

Modified text is indicated as follows: Double-underline designates text to be inserted; ~~strikeout~~ designates text to be deleted.

Addendum Number 1 consists of 8 pages (size 8 1/2" x 11") and 1 revised Drawing.

I. General Changes

A. Cover:

1. Change date from "September 2016" to "August 2016"

II. Changes to Prior Addenda

A. N/A.

III. Changes to Introductory Information and Bidding Requirements

A. No changes.

IV. Changes to Contracting Requirements

A. No changes.

V. Changes to Conditions of the Contract

A. No changes.

VI. Changes to Specifications

A. Section 01100 (Summary):

1. Modify Paragraph 1.6C.4 as follows: Tanks 1,2, and 3 shall be modified simultaneously.

2. Modify Paragraph 1.6C.5 as follows: Work on Tank 4 shall be performed after Tanks 1, 2, and 3 are complete and in service.
3. Add the following as Paragraph 1.6C.6 and renumber remaining paragraph(s) accordingly:

1.6C.6. Tank fill pipeline may be started and constructed while Tank 4 is under construction.

B. Section 01500 (Temporary Facilities and Controls)

1. Modify Paragraph 1.5A as follows:

Owner shall provide temporary construction water as follows: Owner will provide (upon Contractor's written request 3 Days in advance) a 2" threaded outlet on Tank 2 with a Reduced Pressure (backflow preventer) device. Pressure will be very low, in the range of 3-12 psi. If higher pressure water is needed, Contractor shall supply water at his expense. Should Owner determine, in its sole discretion, that Contractor's use of Owner's water is excessive, Owner may terminate water delivery. Water will only be available until Tank 2 is dewatered. No other Owner-provided water will be made available to Contractor for this Project. This section does not refer to tank fill water which is described elsewhere.

C. Section 02240 (Dewatering):

1. Modify Paragraph 1.3.A.1 as follows: Storage capacity of Tanks 1, 2, and 3 is 6 million gallons each and Tank 4 is 12 million gallons.
2. Modify Paragraph 3.1.A.4 as follows: Dewatering will be required for all tanks ~~1, 3, and~~ 4 to perform the required Work.

D. Section 02821 (Chain Link Fence and Gates): Delete this Section in its entirety and replace with revised Section attached, marked "Revised 9/13/16."

E. Section 09900 (Paints and Protective Coatings):

1. Delete Paragraph 3.2 and renumber remaining paragraphs accordingly.

VII. Changes to Drawings

- A. Drawing No. C-3: For all references to 6' high chain link gate and 6' chain link fence: delete "6" and replace with "8"
- B. Delete Drawing No. D6 and replace with revised Drawing No. D6 attached and marked "9/13/16 Addendum 1"

VIII. Question(s)/Answer(s)

Owner's responses to Bidder questions shall be for the purposes of interpretation and clarification of the Contract Documents only, and shall not be construed as changing, superseding, or contradicting any express term in the Contract Documents. If any Bidder believes that a response to a question warrants a change in any term in the Contract Documents, the Bidder shall so request the change be made in writing addressed to Owner and received no later than the latest date for submitting Bidder questions. In the absence of a change in any term of the Contract Documents, the express terms of the Contract Documents shall have precedence. Bidder questions are listed below verbatim.

For Bidders' convenience, Owner may include citations to specific areas of the Contract Documents in answers to Bidder questions; however, such citations may not represent an exhaustive listing of resources pertinent to the matters presented by the underlying question. Information provided by Owner in response to Bidder questions shall not relieve Bidders of their responsibility to examine the Contract Documents and Addenda in their entirety.

- A. Specification Section 02240 discusses dewatering. It talks about dewatering tanks 1 and 3 and tank 4. It does not mention tank 2. Drawing number D-3 shows a new BFV installed on the tank drain on tank 2 which would require this tank to be dewatered. Is this tank to be dewatered by the contractor or the Agency?

Owner's response: Answered in this Addendum above.

- B. Specification Section 01100 paragraph 1.6 discusses work sequence. Under subparagraph C, it says that work on tank 4 cannot start until work on tanks 1 and 3 are complete and in service. Do tank 2 and the new Ralphine Tanks fill pipeline also need to be completed before work on tank 4 is started?

Owner's response: Answered in this Addendum above.

- C. Drawings show a 6' high fence plus 3 strands of barbed wire. All the existing chain link fence is 8' high plus 3 strands of barbed wire and razor ribbon. Existing fence has a galvanize finish and you're asking for a vinyl dark green for the new fence. Suggest we use an offset post where fence terminates at the tank, instead of the 1/4" plate.

Owner's response: Answered in this Addendum above

END OF DOCUMENT

SECTION 02821

CHAIN LINK FENCE AND GATES

****REVISED 9/13/16****

PART 1 GENERAL**1.1 RELATED SECTIONS**

- A. Section 02230 (Site Work and Grading)
- B. Section 03300 (Concrete)

1.2 REFERENCES

- A. ASTM A121 Standard Specification for Metallic-Coated Carbon Steel Barbed Wire
- B. ASTM A153 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- C. ASTM A824 Standard Specification for Metallic-Coated Steel Marcellled Tension Wire for use with Chain-Link Fence
- D. ASTM A392 Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric
- E. ASTM F552 Terminology Relating to Chain-Link Fencing
- F. ASTM F567 Standard Practice for Installation of Chain Link Fence
- G. ASTM F626 Standard Specification for Fence Fittings
- H. ASTM F900 Standard Specification for Industrial and Commercial Swing Gates
- I. ASTM F1043 Standard Specification for Strength and Protective Coatings on Metal Industrial Chain Link Fence Framework
- J. ASTM F1083 Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures

1.3 SUBMITTALS

- A. Product Data:
 - 1. Fence components
 - 2. Gate hardware
- B. Shop Drawings:
 - 1. Scaled plan layout showing spacing of components, accessories, fittings, hardware and post anchorage
 - 2. Concrete post embedment
- C. Quality Assurance/Control Submittals:
 - 1. Manufacturer Instructions:
 - a. Chain link fence and gate installation
 - b. Barbed wire and razor wire installation

1.4 QUALITY ASSURANCE

- A. Utilize only AWS certified welders

1.5 DEFINITIONS

- A. See ASTM F552

B. NPS: Nominal pipe size, in inches

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Subject to compliance with the Contract Documents, the following manufacturers are acceptable:

1. Fence systems:
 - a. Cyclone
 - b. Page-Wilson Corporation (Page Fence Division)
 - c. Anchor Fence, Inc.
 - d. Or Approved Equal

2.2 COMPONENTS

A. Chain Link Fabric:

1. Fabric type:
 - a. ASTM A392
 - 1) Hot-dipped galvanized before or after weaving.
 - (a) Class 2 - 2.0 oz/ft² (610 g/m²)
 - 2) Aluminum-Coated Steel Fabric (Aluminized): ASTM A491
 - 3) Zinc-5% Aluminum-Mischmetal Alloy Coated Steel Fabric: ASTM F1345
 - (a) Class 2 - 1.0 oz/ft² (305 g/m²)

2. Wire gage: 9
3. Mesh size: 2 inch
4. Selvage treatment:
 - a. Top: Knuckled
 - b. Bottom: Knuckled

B. Concrete: See Section 03300 (Concrete)

C. Line Posts:

1. ASTM F1083 pipe:
 - a. Schedule 40, NPS 2" galvanized

D. Corner or Terminal Posts:

1. ASTM F1083 pipe
 - a. Schedule 40, NPS 2 ½" galvanized

E. Gate Posts:

1. ASTM F1083 pipe
 - a. Schedule 40, NPS 3" galvanized

F. Brace and Rails:

1. ASTM F1083 pipe
 - a. Schedule 40, NPS 1 ¼

G. Tension Wire:

1. Top and bottom of fabric
 - a. ASTM A824, galvanized steel, Class 3
 - b. 6 gage, single strand

H. Framing (steel) Finishes:

1. ASTM A153; hot rolled steel strip, cold formed to pipe configuration; longitudinally welded construction, minimum yield strength of 50 ksi; coating conforming to ASTM F1043
 - a. Intermediate, terminal, corner, rail, brace, and gateposts shall be Type 1 round.
- I. Gate Frame:
 1. 1 ½" inch diameter for fittings and truss rod fabrication. Double swing type
- J. Tension Strap:
 1. ASTM F626
 - a. 1/8 inch thick galvanized steel
- K. Tension Band:
 1. ASTM F626
 - a. 3/8 inch thick galvanized steel
- L. Tie Wire:
 1. Aluminum alloy steel wire
- M. Fence Fittings (Post and line caps, rail and brace ends, Sleeves-top rail, tie wires and clips, tension and brace bands, tension bars, truss rods, extension arm)
 1. ASTM F626
 2. Hardware:
 - a. Galvanized per ASTM A153
- N. Razor Wire:
 1. Commercially available for medium security fence protection-
 2. Galvanized steel or stainless steel
 3. 18" +/- diameter coils
 4. 4 needle-sharp barbs at 4 +/- Inch spacing
 5. Alternate clipped
 6. Mount over the barbed wire.

2.3 ACCESSORIES

- A. Caps:
 1. Sized to post diameter; set screw retainer
- B. Fittings:
 1. Sleeves, bands, clips, rail ends, tension bars, fastener fittings, and extension arm: Steel
- C. Gate Hardware:
 1. Center gate stop and drop rod, 180 degree gate hinge per leaf, and hardware for padlock

2.4 FINISHES

- A. Accessories
 1. Galvanized

2.5 SOURCE QUALITY CONTROL

- A. Test related fence construction materials to meet the following standards:
 1. Posts and rails:
 - a. ASTM F1043, Heavy Industrial

PART 3 EXECUTION

3.1 PREPARATION

- A. Stake locations of fence lines and terminal posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, underground structures, and benchmarks.
- B. The area to be fenced shall be uniformly and smoothly graded before beginning fence installation.

3.2 EXCAVATION

- A. Excavation for concrete embedded items shall be of the dimensions indicated. Clear loose material from post-holes. Grade area around finished concrete footings.

3.3 INSTALLATION

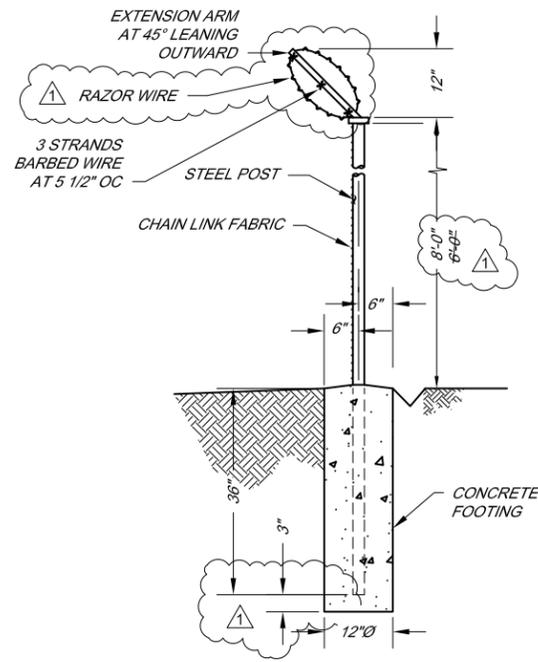
- A. Match height of existing chain link fence
- B. Install in accordance with:
 - 1. Manufacturer's instructions
 - 2. Lines and grades as indicated
 - 3. ASTM F567
- C. Do not start fence installation before final grading is complete and finish elevations are established per Section 02230 (Site Work and Grading).
- D. Drill holes in firm, undisturbed or compacted soil.
- E. Set intermediate, terminal, and gateposts plumb, in concrete footings with top of concrete footing 2 inches above grade. Thoroughly compact concrete and finish in a slope or dome to divert water running down the footing away from the post.
 - 1. Keep gatepost out of drainage flowway.
- F. Place fence with bottom edge of fabric at maximum clearance above grade. Correct minor irregularities in earth to maintain maximum clearance.
- G. Line post fitting depth below finish grade: 3 feet
- H. Corner, gate and terminal post footing depth below finish grade: 3 feet, 6 inches
- I. Space line posts at intervals not exceeding 10 feet on center
- J. Provide post braces for each gate corner pull and terminal post and first adjacent line post.
- K. Place fabric on outside of posts and rails.
- L. Install tension bars full height of fabric.
- M. Install bracing assemblies at end and gate posts, as well as side, corner, and pull posts.
 - 1. Install so that posts are plumb when under correct tension.
- N. Pull fabric taut and secure to posts and rails.
 - 1. Position bottom of fabric 2 inches above finished grade.
 - 2. Attach fabric to end, corner, and gateposts with tension bars and tension bar clips.
 - 3. Secure so that fabric remains in tension after pulling force is released.
 - 4. Secure to posts at not over 15 inches on center, and to rails at not over 24 inches on center, and to tension wire at not over 24 inches on center.
 - 5. Use U-shaped wire conforming to diameter of pipe to which attached, clasping pipe and fabric firmly with ends twisted at least two full turns.
 - 6. Bend ends of wire to minimize hazards to persons or clothing.
- O. Install post top at each post.
- P. Install extension arms, barbed wire and razor wire.
- Q. Gates:
 - 1. Construct with fittings or by welding.

2. Provide rigid, weatherproof joints.
3. Ensure right, non-sagging, non-twisting gate.
4. Coat welds with rust preventive primer and paint, color to match pipe.
5. Adjust gates as required so that they operate smoothly.

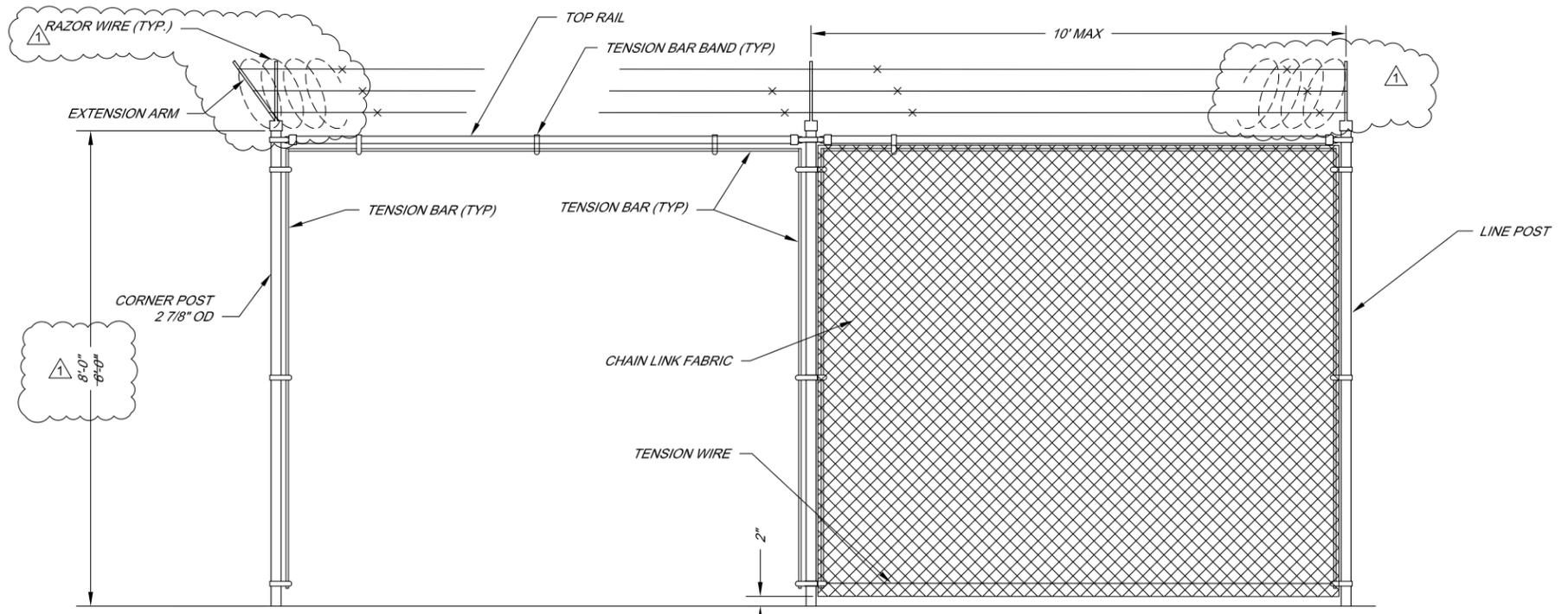
3.4 ERECTION TOLERANCES

- A. Maximum variation from plumb: $\frac{1}{4}$ inch.
- B. Maximum offset from true position: 1 inch.

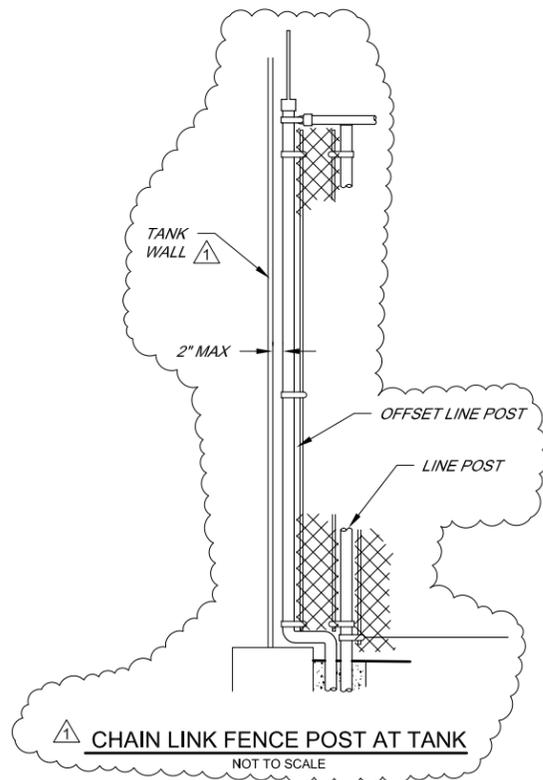
END OF SECTION



CHAIN LINK FENCE SECTION
NOT TO SCALE

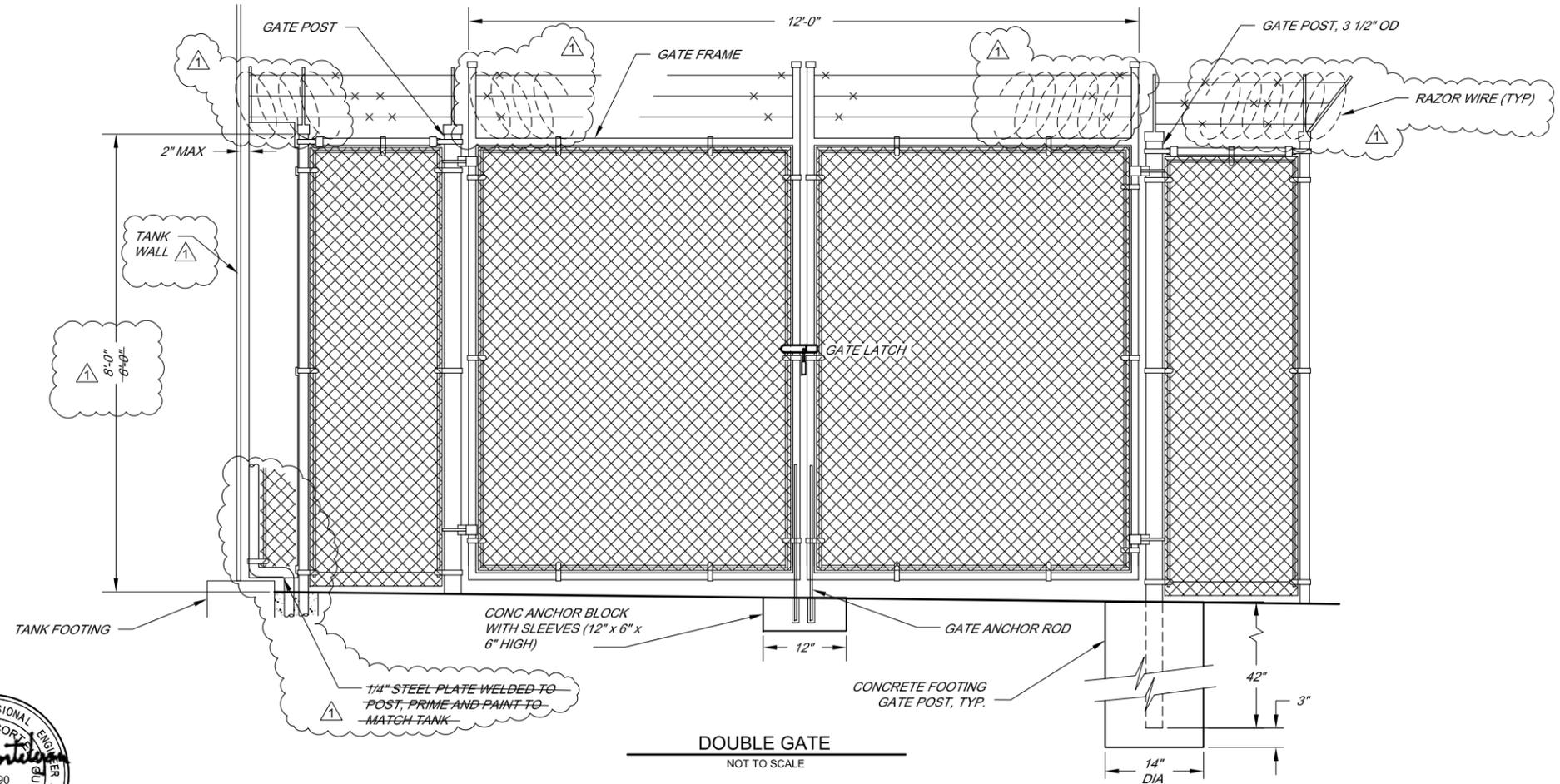


TYPICAL CHAIN LINK FENCE
NOT TO SCALE

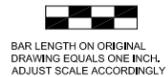


CHAIN LINK FENCE POST AT TANK
NOT TO SCALE

- NOTES:**
1. KEEP GATE POST OUT OF DRAINAGE FLOWWAY.



DOUBLE GATE
NOT TO SCALE



BAR LENGTH ON ORIGINAL
DRAWING EQUALS ONE INCH,
ADJUST SCALE ACCORDINGLY

NO.	DATE	REVISION	BY	AGENCY
1	9/13/2016	ADDENDUM NO. 1		SONOMA COUNTY WATER AGENCY

SCALE: AS SHOWN	DATE: 9/13/2016	RALPHINE TANKS FLOW THROUGH CONVERSION	
DRAWN: ADF	REVIEWED:	CHAIN LINK FENCE AND GATE DETAILS	
FILE NAME: 7735_D-5.dwg	DRAWING NUMBER: D-6	SHEET 10 OF 13	
CONTRACT NUMBER: 60-67-7 #4			

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