

# Bid Addendum No. 1

Alderpoint Road Tank Replacement Project  
Garberville, CA

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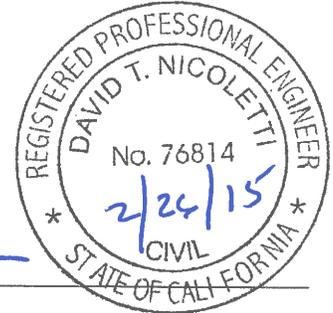
Date: February 26, 2015

Project No.: 7714.02

Prepared For: Garberville Sanitary District & Prospective Bidders

Approved By: David Nicoletti, PE

Attachments: Appendix 1: Revised Bid Form  
Appendix 2: Caltrans Standard Plans A85 & A85A  
Appendix 3: Revised Plan Sheets



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- A. Notice is hereby given that SHEETS C1.1, C1.2, C1.3, C2.0, C5.2, C5.3, C5.4, & C5.5 have been revised. All revisions are identified with revision clouds and revision numbers.
- B. The Bid Form has been revised and is included in this addendum as Appendix 1.
- C. Specification Section 09 90 05.00 Protective Coatings for Welded Steel Reservoirs, Section 2.2A is revised as follows:

Coating materials shall be suitable for the intended use. Materials shall be recommended by their manufacturer for the intended service. Interior immersion coatings must be on the current NSF/ANSI Standard 61 list for potable water coatings and meet all requirements of the State Water Resources Control board (SWRCB), Department of Drinking Water (DDW).

- D. Specification Section 22 12 00.00 Sections 1.1.A and 1.5G Potable Welded Steel Water Storage Tanks, Measurement and Payment and Submittals is revised as follows:
- A. 200,000 gallon welded steel tank and concrete ring foundation:
1. Basis of Measurement: Lump Sum
  2. Basis of Payment: Includes tank ring foundation, 200,000 gallon welded steel tank, tank and foundation design, tank coatings, weld field inspection and testing, leak testing, (2) man-ways, tank drain, 6" overflow, 8" inlet, 8" outlet, open exterior ladder with anti-climb door and safety climb, float switch and telemetry connection, 12" center roof vent, roof hand railing, 36" square roof access hatch, float switches, sight level indicator, sample tap, disinfection, de-chlorination and

disposal of testing water, and eleven-month inspection and corrections. Price will be payment in full for furnishing all labor, materials, tools, equipment and incidentals, and doing all work necessary to complete the work as specified.

G. Float Switches

The contractor is responsible for providing and installing new float switches for the new 200,000-gallon tank. The float switches shall have a minimum of 4-set points and have the ability to communicate tank water levels to the Arthur Road pump station. Floats will communicate using existing overhead wiring currently connecting the 30,000-gallon redwood tank floats to the Arthur Road pump station. Contractor shall provide submittal for product data and certification of all materials used in the float assembly, properly executed by the manufacturer, to the Engineer and Owner for approval.

E. Specification Section 01 50 05.00 Temporary Connection, Section 1.2A is revised as follows:

A. Temporary tank connection and District coordination:

1. Basis of Measurement: Lump Sum.
2. Basis of Payment: Includes temporary piping, valves, utility coordination for the relocation and connection of telecommunication to the Arthur Road pump station, seismic anchoring design & installation for temporary tank, float switch relocation, temporary tank overflow and outlet, excavation, backfill, connections, disconnections, coordination with the District, and submittal development, which price will be payment in full for furnishing all labor, materials, tools, equipment and incidentals, and doing all work necessary to complete the work as specified.

F. Requirements for a 5-day soaking period and VOC testing under Specification Section 22 12 00.00, Paragraph 3.5B is no longer required for the 200,000-gallon welded steel tank.

G. The following questions were received from prospective bidders at the mandatory pre-bid conference held at the project site on February 9, 2015 as well as additional questions received via email since the pre-bid meeting.

1. **Q: Is there an exception to the \$10,000,000 liability insurance??** Yes, the requirement for Excess Umbrella Liability insurance in Special Condition Paragraph SC 6.04 K.4 is hereby reduced to \$5,000,000 (five-million dollars) Per Occurrence.
2. **Q: Is the telemetry for the new tank going to be upgraded, or reinstall the existing telemetry?** The contractor is responsible for moving the existing telephone line to temporary tank from the existing redwood tank, removing the existing floats from the existing redwood tank and re-installing them in the temporary tank, and coordinating with the District for temporary tank start-up. Telemetry for the new 200,000-gallon welded steel tank will be upgraded with new float switches; contractor is responsible for purchasing the new float switch and reinstalling the existing telephone line to new 200,000-gallon tank.
3. **Q: Are any other permits required?** Please refer Specification Section 22 12 00.00, subsection 3.6 Disinfection, Paragraph B1.
4. **Q: Can finish grade be higher or is the plan elevation exact?** Finish grade shall be as shown in the plans.

5. **Q: Are they able to expand finish grade rather than haul off excess spoils if needed?** No, finish grade shall be as shown in the plans.
6. **Q: Will LACO be setting grade stake and determining exact location of tank and piping? Is contractor or GSD responsible for LACO expenses to perform these tasks?** LACO will provide one set of construction stakes depicting the location of the tank center and location of piping as shown in the plans, paid for by the owner. Please refer to Specification Section 01 51 00 Temporary Facilities and Controls, Paragraph 2.03 for more information.
7. **Q: How many compaction tests and concrete samples are required? Who pays for these?** Please refer to Specification Section 03 30 00 Cast-in-Place Concrete, Paragraph 3.6, and Specification Section 31 23 17 Trenching, Paragraph 3.6..
8. **Q: Any Additional information on Altitude Valve?** The altitude valve shall be as specified.
9. **Q: Does disinfection of tanks have to be performed prior to coating the tank?** Once the tank has been coated in accordance with the Project Specifications and AWWA D102-11, the tank shall be disinfected in accordance with the Project Specifications and AWWA C652-11.
10. **Q: Is leak testing going to be performed prior to tank coating?** In accordance with AWWA D100-11, Section 11.10 testing of *flat bottoms* and *shell-to-bottom joint* will be tested prior to tank coating; *Shell, bottom, and roof* testing will occur after the tank has been coated. Refer to AWWA D100-11, Section 11.10 for additional information.
11. **Q: When will trees and shrubs be identified?** Trees shall be purchased in 5-gallon pot size, twelve (12) of each of the following species shall be installed; Madrone, Douglas Fir, and Tan Oak.
12. **Q: Can thrust blocks be used in place of thrust restraints?** Thrust blocks can be used in place of thrust restraints for below grade applications. Thrust blocks shall be in accordance with Details on Sheet C5.1.
13. **Q: Please confirm that purchase of documents is not required for bidding?** Documents do not need to be purchased in order to be eligible for bidding.
14. **Q: Is the contractor required to provide a biologist to perform the pre-construction survey for bird nests and an archeologist for cultural monitoring as described in the MMRP?** No, the contractor is not required to retain biologists or archeologists for the project.
15. **Q: Please clarify the applicability of Line Item #8 Unsuitable Material which is described in Section 31 22 13 Rough Grading?** If the engineer determines areas of subgrade contain unsuitable material, the material shall be removed and replaced in accordance with Section 31 22 13 Rough Grading.
16. **Q: What is the cost of the encroachment permit?** The encroachment permit is the responsibility of the Owner. The contractor shall coordinate with the Humboldt County Roads Department regarding traffic control measures.

- 17. **Q: How will the quantity of concrete for the ring foundation be estimated for bidding purposes?**  
Contact your tank manufacture for information on the tank foundation.
  
- 18. **Q: Please provide the Geotechnical Memorandum.** All bidding documents are available for download on the Owner's website, <http://www.garbervillesd.org/>
  
- 19. **Q: Does the valve vault have to be traffic rated.** The valve vault shall be H-20 Traffic Rated with a steel hatch. The valve vault and hatch referenced in the plans is an *Air Vac Meter Vault* manufactured by Jensen Precast #LVVWD 3048, with a Steel Hatch #CAS-3048
  
- 20. **Q: What are the dimension of the security fence and gate?** The new security fence shall be 6-foot tall chain link fencing in accordance with Caltrans Standard Plans and Specifications. The Gate shall be a 12-foot wide 6-foot tall chain link gate in accordance with Caltrans Standard Plans and Specifications. Caltrans Standard Plans A85 and A85A are included in Appendix 2.

All other Terms and Conditions outlined in the Specifications, Special Provisions, Notice to Contractors, Proposal and Contract remain the same.

Acknowledgement: Bidders for the Alderpoint Road Tank Replacement Project are required to submit a copy of this Addendum duly signed and dated, acknowledging receipt with EXHIBIT B: BID FORM, and table in the form in Article 3 of the Bid Form.

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Contractor or Contractor's Representative (Print then Sign)

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Title

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Date

P:\7700\7714 Garberville Sanitary District\7714.02 Alderpoint Road Tank Engineering Services\10 Civil\Bid Phase\Addendum 01\7714.02 Bidding Addendum 01.docx

# APPENDIX 1

## Revised Bid Form

## **BID FORM**

Alderpoint road Tank Replacement Project

Ralph Emerson, General Manager GSD

(209) 743-0125

Email: [remerson@garbervillesd.org](mailto:remerson@garbervillesd.org)

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**ARTICLE 1 – BID RECIPIENT**

1.01 This Bid is submitted to:

***Garberville Sanitary District***

***919 Redwood Drive***

***Garberville, California 95542***

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

**ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS**

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

**ARTICLE 3 – BIDDER’S REPRESENTATIONS**

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Addendum, Date</u>
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related

reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.

- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

#### **ARTICLE 4 – BIDDER'S CERTIFICATION**

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
  - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
  - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
  - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
  - 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

**ARTICLE 5 – BASIS OF BID**

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

NOTE: The bid schedule does not include every item required to construct the project. The contractor shall include in the bid price all labor, materials, engineering, submittal and shop drawings review, coordination and construction of a complete, fully functional system under each bid item. BIDS shall include sales tax, license, patent fees, and all other applicable taxes and fees.

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
1	Mobilization/Demobilization	LS	1		
2	Erosion & Sediment Control	LS	1		
3	Traffic Control	LS	1		
4	Structure Demolition	LS	1		
5	Site Clearing	LS	1		
6	Rough Grading	LS	1		
7	Aggregate Base	TON	80		
8	Unsuitable Material	CY	25		
9	Rock Slope Protection	TON	14		
10	Replacement Tree Planting	EA	36		
11	Bollards	EA	9		
12	6-Foot Security Fence & Gate	LF	320		
13	200,000 Gallon Welded Steel Tank and Concrete Ring Foundation	LS	1		
14	8-Inch Pipe and Fittings	LF	120		
15	Seismic Connections and Fittings	EA	2		
16	8-Inch Swing Check Valve	EA	1		
17	8-inch Gate Valves	EA	4		
18	8-inch One-Way Altitude Control Valve	EA	1		
19	6-Inch Gate Valve	EA	3		
20	6-Inch Pipe & Fittings	LF	25		
21	6-Inch Storm Drain Pipe	LF	25		
22	Temporary Tank Connection, Plumbing & District Coordination	LS	1		
<b>Total of All Unit Price Bid Items</b>					\$

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

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**Total of Lump Sum and Unit Price Bids = Total Bid Price**     \$ \_\_\_\_\_

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**ARTICLE 6 – TIME OF COMPLETION**

- 6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

**ARTICLE 7 – ATTACHMENTS TO THIS BID**

- 7.01 The following documents are submitted with and made a condition of this Bid:
  - A. Required Bid security;
  - B. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;
  - C. Contractor’s California Class A License No.: \_\_\_\_\_ or Evidence of Bidder’s ability to obtain a California Contractor’s Class A License and a covenant by Bidder to obtain said license within the time for acceptance of Bids;

**ARTICLE 8 – DEFINED TERMS**

- 8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

**ARTICLE 9 – BID SUBMITTAL**

BIDDER: *[Indicate correct name of bidding entity]*

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By:  
*[Signature]* \_\_\_\_\_

*[Printed name]* \_\_\_\_\_  
*(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)*

Attest:  
*[Signature]* \_\_\_\_\_

*[Printed name]* \_\_\_\_\_

Title: \_\_\_\_\_

Submittal Date: \_\_\_\_\_

Address for giving notices:

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Telephone Number:

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Fax Number:

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Contact Name and e-mail address:

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Bidder's License No.:

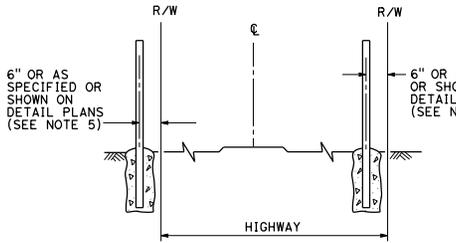
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*(where applicable)*

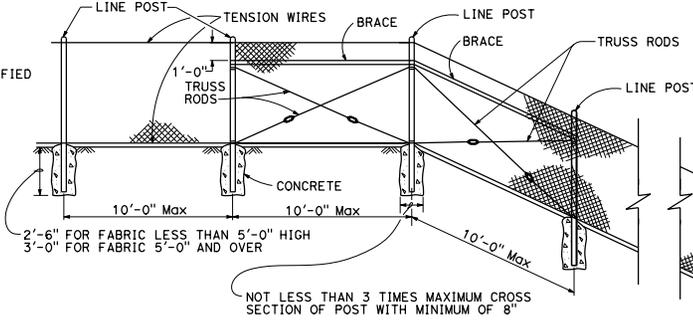
*NOTE TO USER: Use in those states or other jurisdictions where applicable or required.*

## APPENDIX 2

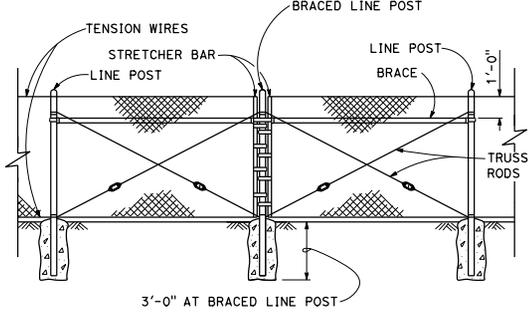
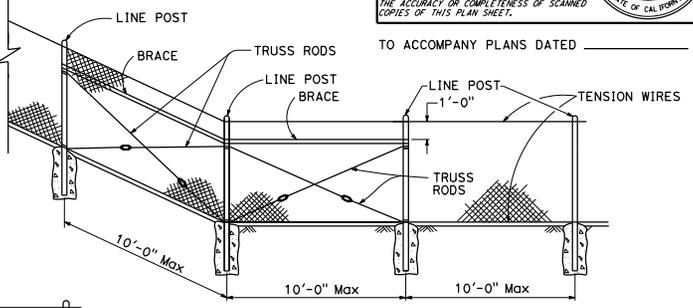
### **Caltrans Standard Plans A85 & A85A**



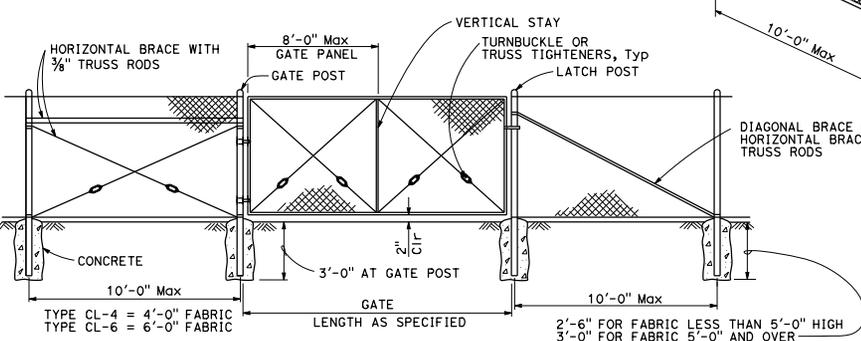
**OTHER HIGHWAYS**  
**FREEWAYS**  
**FENCE LOCATION**



**CHAIN LINK FENCE ON SHARP BREAK IN GRADE**



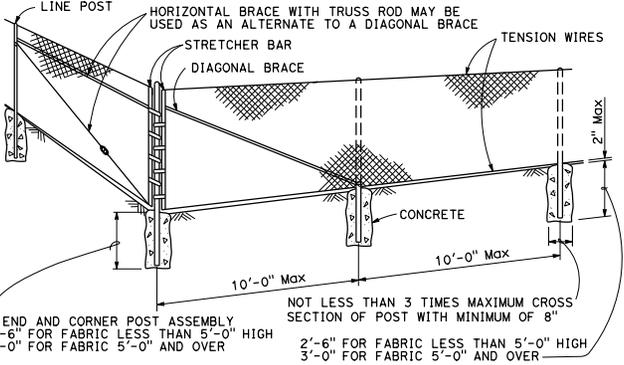
**BRACED LINE POST INSTALLATION**  
Braced line post at intervals not exceeding 1000'



**CHAIN LINK GATE INSTALLATION**

GATE POST			
FENCE HEIGHT	GATE WIDTHS	ROUND OD PIPE	WEIGHT (lb/ft)
6'-0" AND LESS	UP THRU 6'-0"	2.875"	5.80
	THRU 12'-0"	4.500"	10.80
	THRU 18'-0"	5.563"	14.63
	OVER 18'-0" TO 24'-0" Max	6.625"	18.99
OVER 6'-0" TO 8'-0" Max	UP THRU 6'-0"	3.500"	7.58
	OVER 6'-0" THRU 12'-0"	5.563"	14.63
	OVER 12'-0" THRU 18'-0"	6.625"	18.99
	OVER 18'-0" TO 24'-0" Max	8.625"	28.58

Above post dimensions and weights are minimums. Larger sizes may be used upon approval.



**CORNER POST**

- NOTES:**
- The table below shows minimum sized posts and braces complying with the specifications. Larger or heavier post and brace sizes may be used upon approval.
  - Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
  - Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
  - Options exercised shall be uniform on any one project.
  - Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
  - See Revised Standard Plan RSP A85B for Brace, Stretcher Bar, and Truss Tightener Details.

FENCE HEIGHT	TYPICAL MEMBER DIMENSIONS (See Notes)									
	LINE POSTS				END, LATCH AND CORNER POSTS		BRACES			
	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED		ROUND OD PIPE	WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED	
			SECTION	WEIGHT (lb/ft)					SECTION	WEIGHT (lb/ft)
6'-0" AND LESS	1.900"	2.72	1.875" x 1.625"	1.85	2.375"	3.65	1.66"	2.27	1.625" x 1.25"	1.35
OVER 6'-0" TO 8'-0" Max	2.375"	3.65	2.25" x 1.70"	2.78	2.875"	5.80	1.66"	2.27	1.625" x 1.25"	1.35

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CHAIN LINK FENCE**  
NO SCALE

RSP A85 DATED JULY 18, 2014 SUPERSEDES STANDARD PLAN A85  
DATED MAY 20, 2011 - PAGE 112 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP A85**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Glenn DeCou  
REGISTERED CIVIL ENGINEER

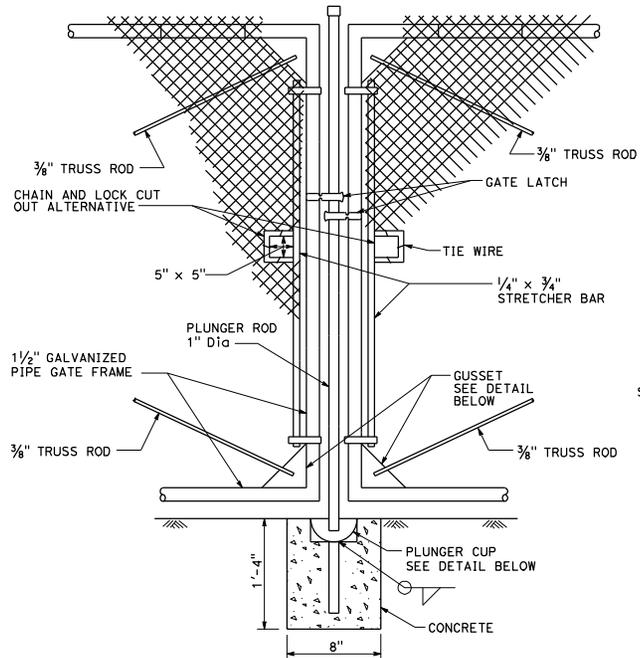
July 18, 2014  
PLANS APPROVAL DATE

Glenn DeCou  
No. C34547  
Exp. 9-30-15  
CIVIL  
STATE OF CALIFORNIA

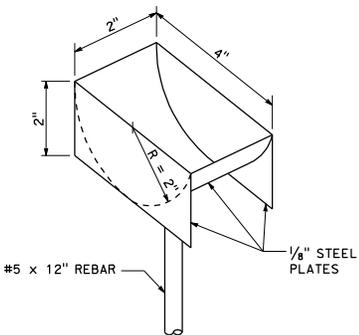
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED \_\_\_\_\_

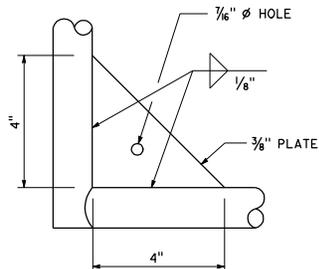
2010 REVISED STANDARD PLAN RSP A85



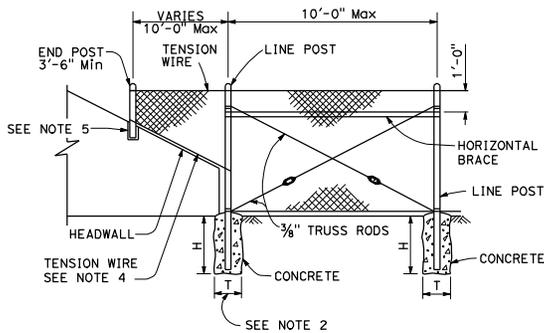
**DOUBLE GATE  
REMOVABLE CENTER POST**



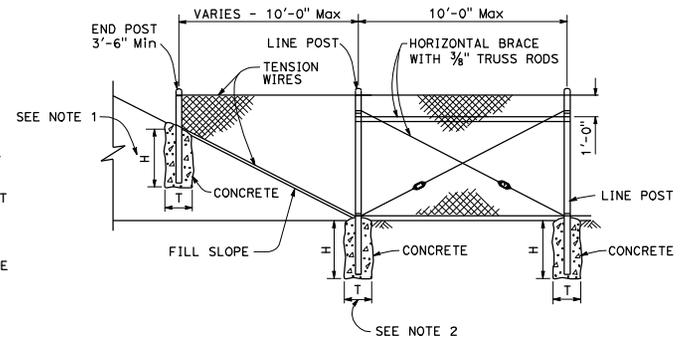
**PLUNGER CUP DETAIL**



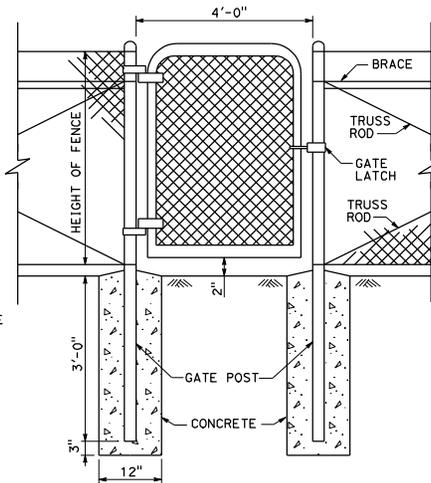
**GUSSET DETAIL**



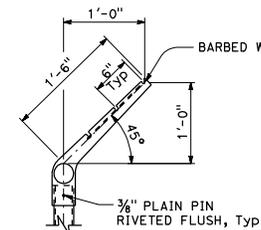
**METHOD OF TYING FENCE TO HEADWALL**



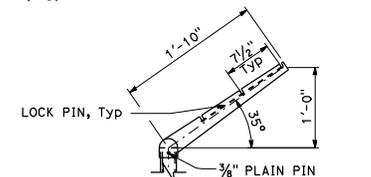
**METHOD OF ERECTING FENCE FOR FILL SLOPE**



**WALK GATE**



**LINE POST**



**CORNER POST**

**BARBED WIRE POST TOP**

**NOTES:**

1. H is 2'-6" for fabric less than 5'-0" high.  
H is 3'-0" for fabric 5'-0" and over.
2. T is not less than 3 times maximum cross section of post with minimum of 8".
3. See Standard Plan A85 for Chain Link Fencing dimensions.
4. See Detail A on Standard Plan A86B for connection at headwall.
5. See Detail D on Standard Plan A86B for connection at headwall.

D16+	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

*Glenn DeCou*  
 REGISTERED CIVIL ENGINEER  
 No. C34547  
 Exp. 9-30-11  
 CIVIL  
 STATE OF CALIFORNIA

May 20, 2011  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CHAIN LINK FENCE DETAILS**

NO SCALE

**A85A**

## APPENDIX 3

### **Revised Plan Sheets**



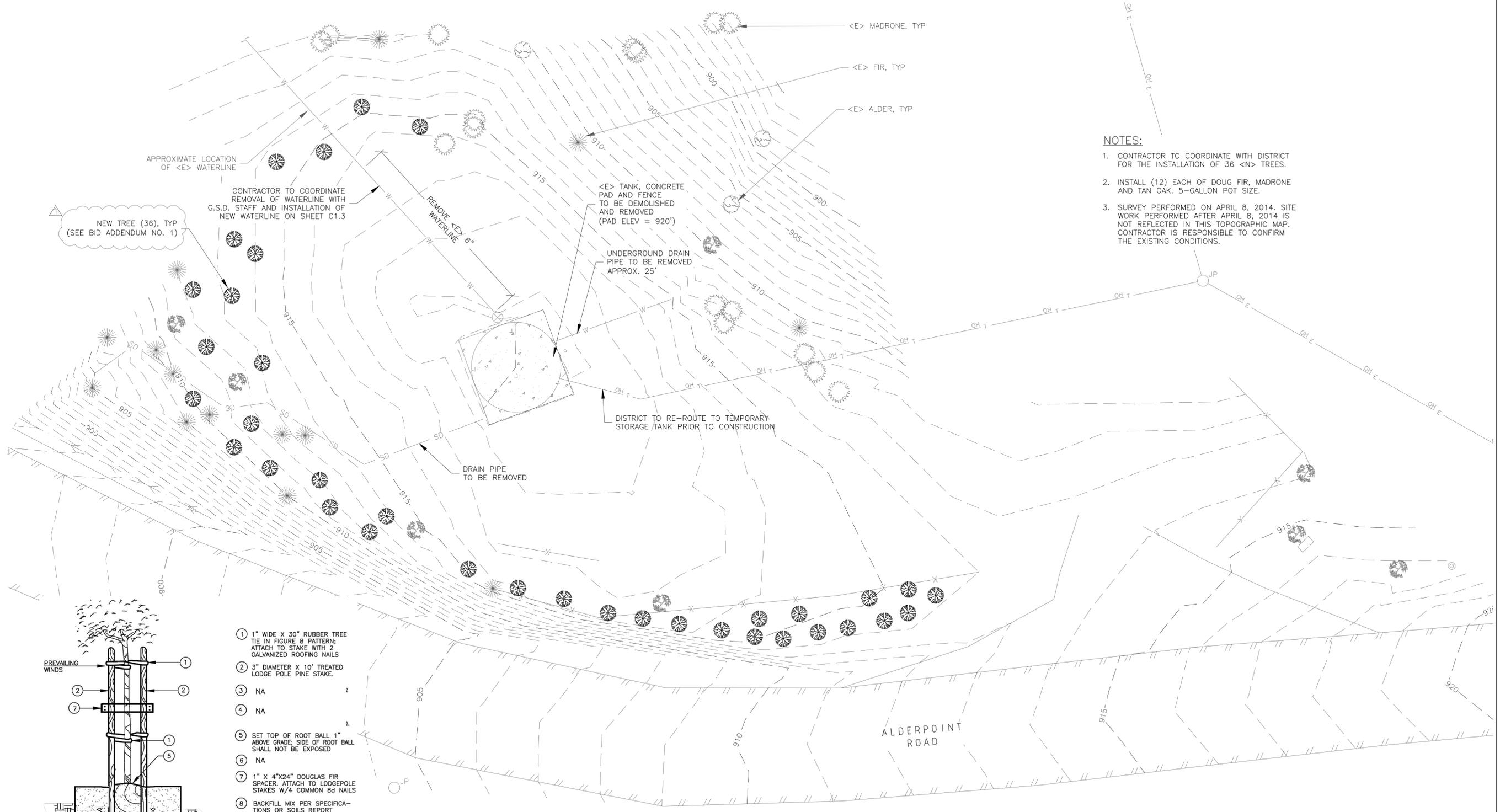
**LACO**  
 EUREKA • UKIAH • SANTA ROSA  
 1-800-515-5054 www.lacoassociates.com

NO.	1
HISTORY / REVISION	BID ADDENDUM 1
BY CHK.	JDB ACS
DATE	2/23/15

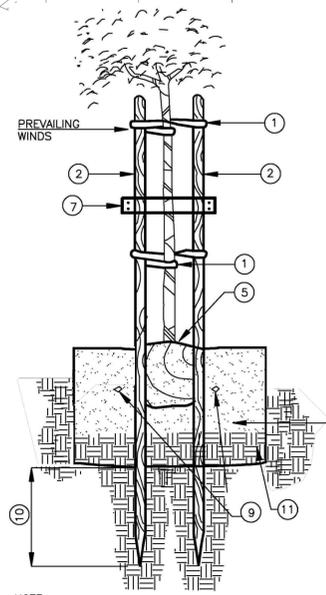
GARBERVILLE SANITARY DISTRICT  
 ALDERPOINT ROAD TANK REPLACEMENT  
 DEMOLITION AND TREE PLANTING PLAN  
 GARBERVILLE SANITARY DISTRICT  
 GARBERVILLE, CA

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DATE	2/23/15
JOB NUMBER	7714.02
SHEET	

C1.1



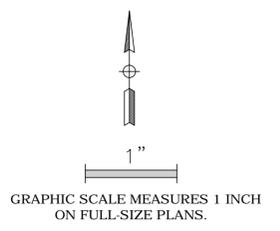
- NOTES:**
- CONTRACTOR TO COORDINATE WITH DISTRICT FOR THE INSTALLATION OF 36 <N> TREES.
  - INSTALL (12) EACH OF DOUG FIR, MADRONE AND TAN OAK. 5-GALLON POT SIZE.
  - SURVEY PERFORMED ON APRIL 8, 2014. SITE WORK PERFORMED AFTER APRIL 8, 2014 IS NOT REFLECTED IN THIS TOPOGRAPHIC MAP. CONTRACTOR IS RESPONSIBLE TO CONFIRM THE EXISTING CONDITIONS.

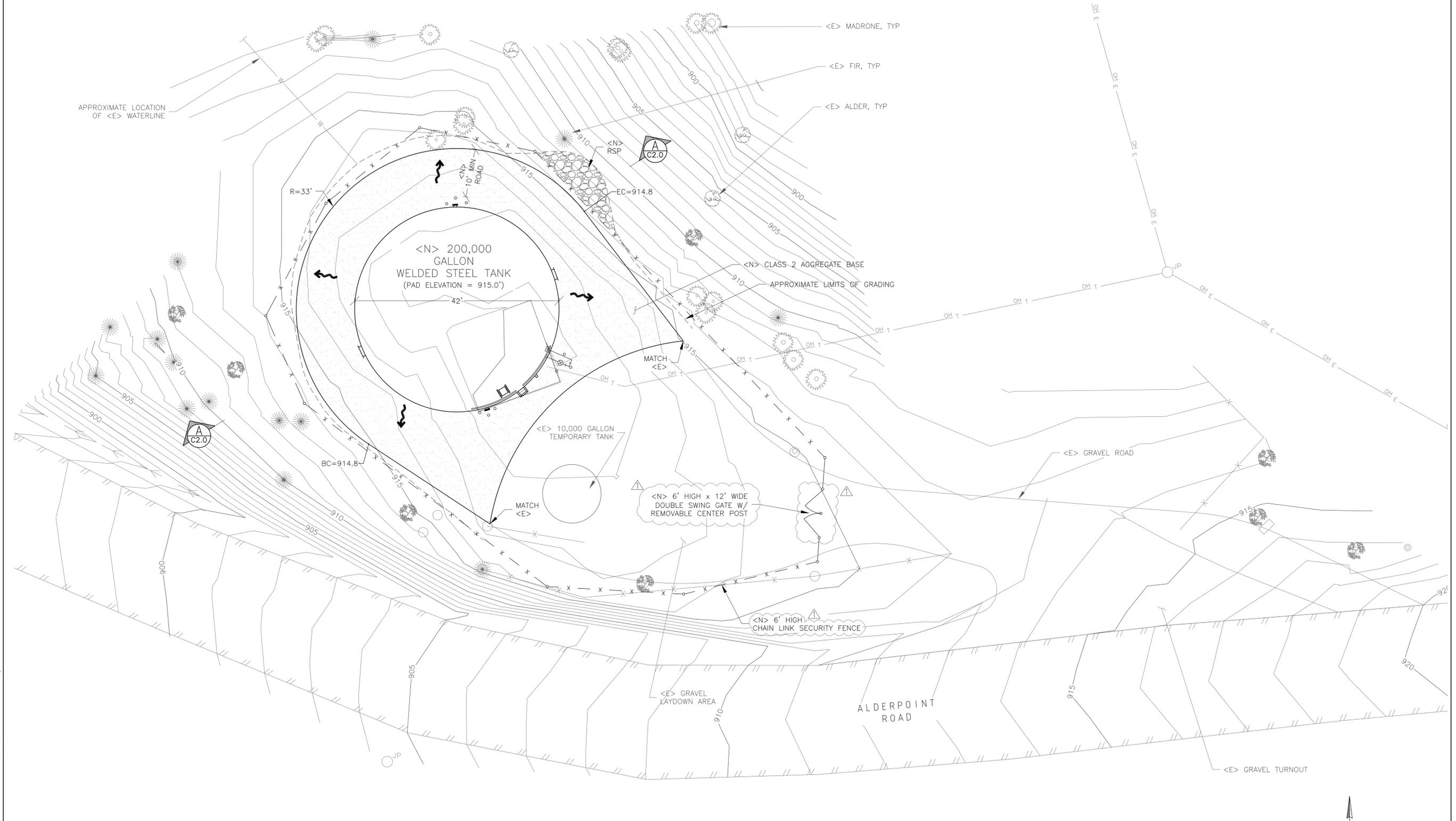


- 1" WIDE X 30" RUBBER TREE TIE IN FIGURE 8 PATTERN; ATTACH TO STAKE WITH 2 GALVANIZED ROOFING NAILS
- 3" DIAMETER X 10' TREATED LODGE POLE PINE STAKE.
- NA
- NA
- SET TOP OF ROOT BALL 1" ABOVE GRADE; SIDE OF ROOT BALL SHALL NOT BE EXPOSED
- NA
- 1" X 4"X24" DOUGLAS FIR SPACER. ATTACH TO LODGEPOLE STAKES W/4 COMMON 8d NAILS
- BACKFILL MIX PER SPECIFICATIONS OR SOILS REPORT
- FERTILIZER TABLETS PER SPECIFICATIONS
- DRIVE STAKE 1'-0" MIN. INTO UNDISTURBED SUBSOIL
- CULTIVATE SOIL ONLY 6" MIN. BELOW ROOT BALL

**NOTE:**  
 1. STAKES SHALL BE PLUMBED AND SHALL RETURN TO UPRIGHT AFTER 50 POUND DEFLECTION.

**PLAN**  
**SCALE: 1" = 10'**

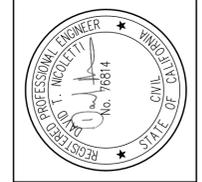
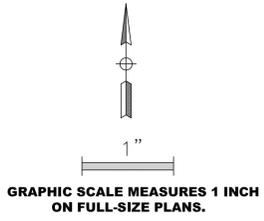




**PLAN**  
**SCALE: 1" = 10'**

**NOTE:**

SURVEY PERFORMED ON APRIL 8, 2014. SITE WORK PERFORMED AFTER APRIL 8, 2014 IS NOT REFLECTED IN THIS TOPOGRAPHIC MAP. CONTRACTOR IS RESPONSIBLE TO CONFIRM THE EXISTING CONDITIONS.



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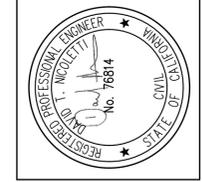
HISTORY / REVISION	BY	CHK.	DATE
BID ADDENDUM 1	JDB	ACS	2/23/15
NO. 1			

GARBERVILLE SANITARY DISTRICT  
ALDERPOINT ROAD TANK REPLACEMENT  
GRADING PLAN

GARBERVILLE SANITARY DISTRICT  
GARBERVILLE, CA

DRAWN	JDB
CHECK	ACS
APPROVED	DTN
DATE	2/23/15
JOB NUMBER	7714.02
SHEET	

C1.2



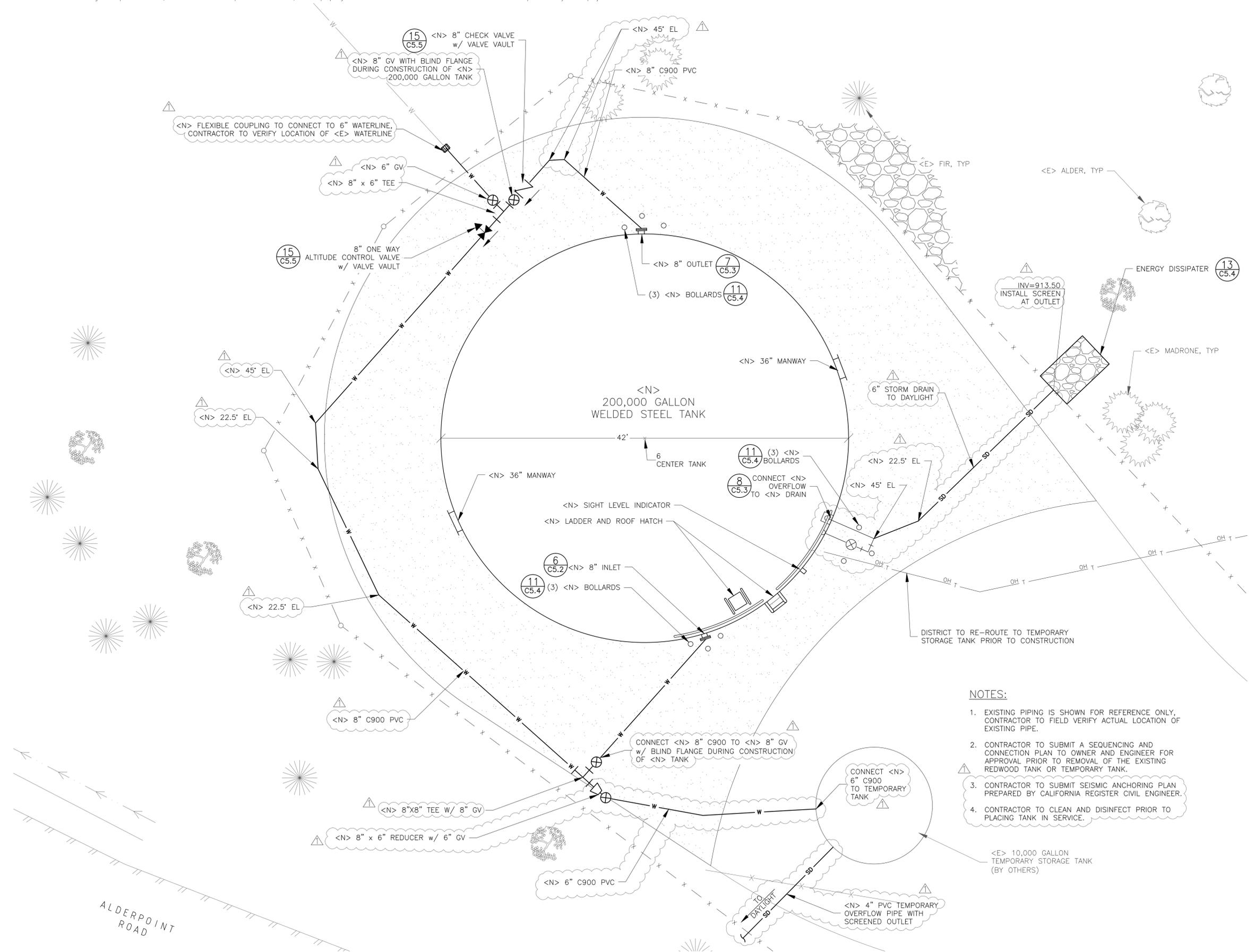
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GARBVILLE SANITARY DISTRICT  
 ALDERPOINT ROAD TANK REPLACEMENT  
 YARD PIPING AND APPURTENANCES PLAN

GARBVILLE SANITARY DISTRICT  
 GARBVILLE, CA

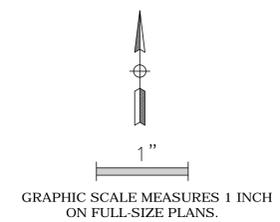
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APPROVED	DTN
DATE	2/23/15
JOB NUMBER	7714.02
SHEET	C1.3

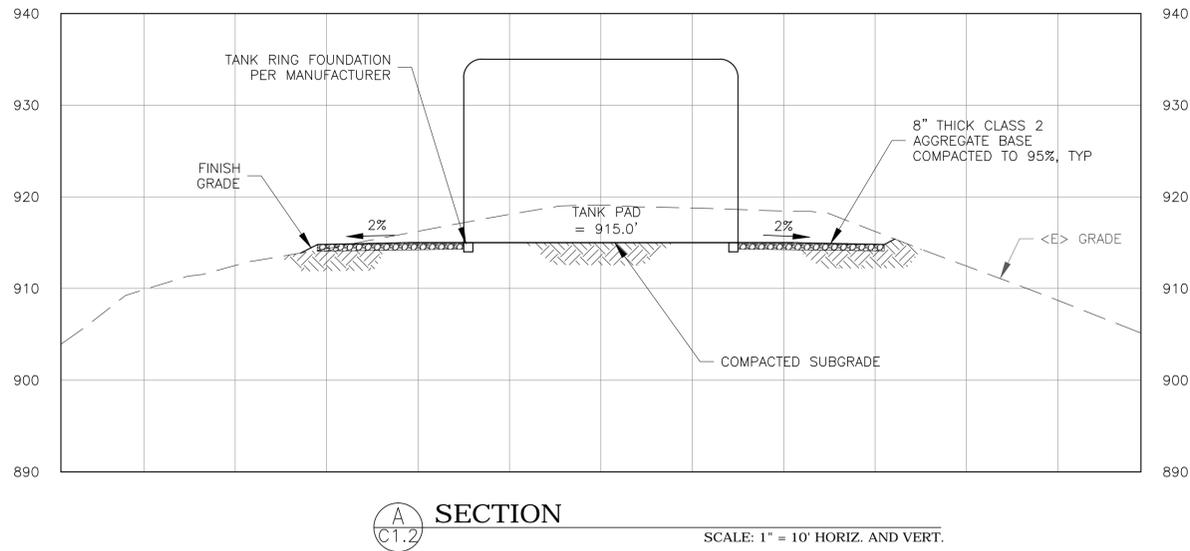


- NOTES:**
- EXISTING PIPING IS SHOWN FOR REFERENCE ONLY, CONTRACTOR TO FIELD VERIFY ACTUAL LOCATION OF EXISTING PIPE.
  - CONTRACTOR TO SUBMIT A SEQUENCING AND CONNECTION PLAN TO OWNER AND ENGINEER FOR APPROVAL PRIOR TO REMOVAL OF THE EXISTING REDWOOD TANK OR TEMPORARY TANK.
  - CONTRACTOR TO SUBMIT SEISMIC ANCHORING PLAN PREPARED BY CALIFORNIA REGISTER CIVIL ENGINEER.
  - CONTRACTOR TO CLEAN AND DISINFECT PRIOR TO PLACING TANK IN SERVICE.

<E> 10,000 GALLON TEMPORARY STORAGE TANK (BY OTHERS)

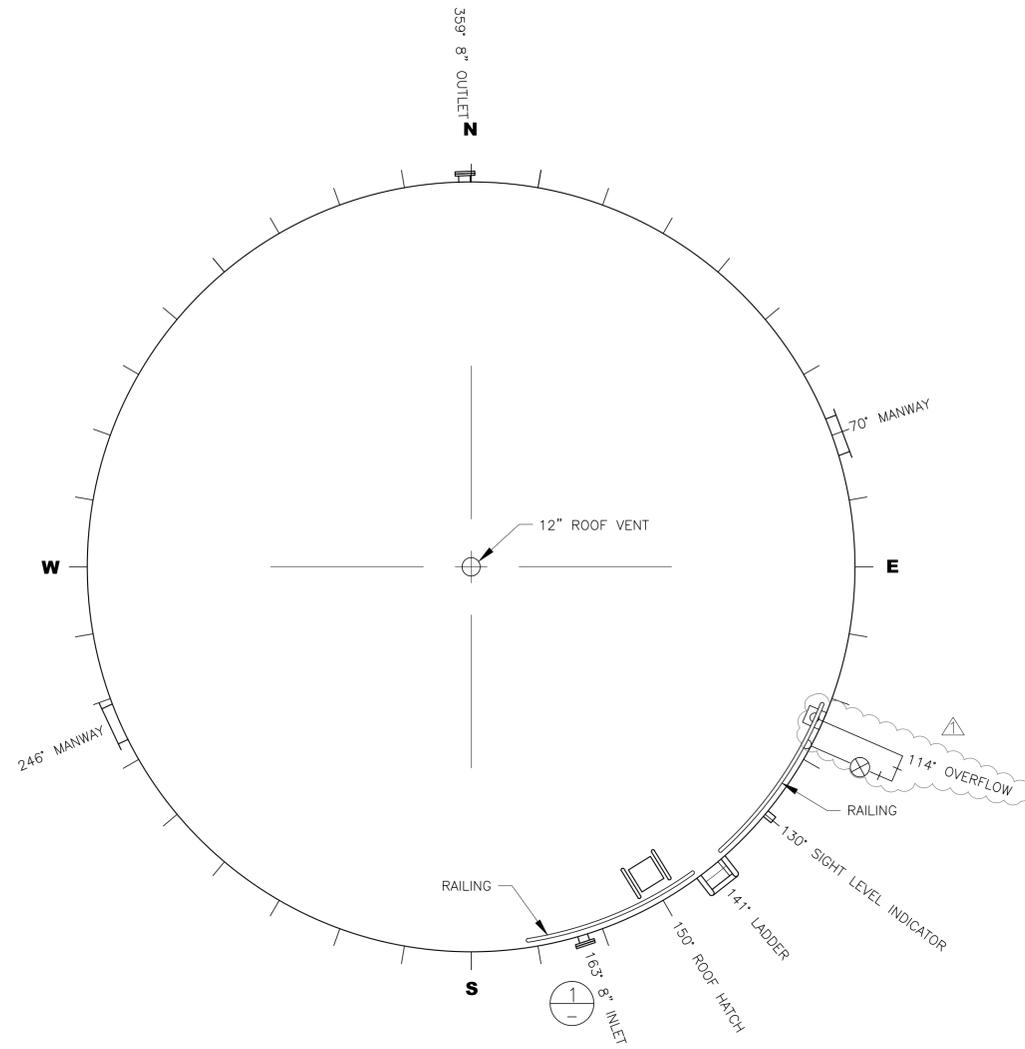
**PLAN**  
 SCALE: 1" = 5'



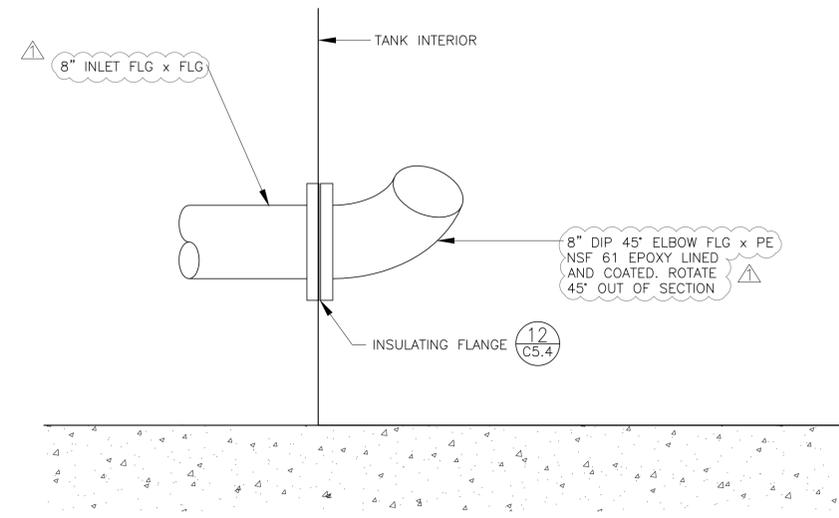


**A**  
C1.2 SECTION

SCALE: 1" = 10' HORIZ. AND VERT.



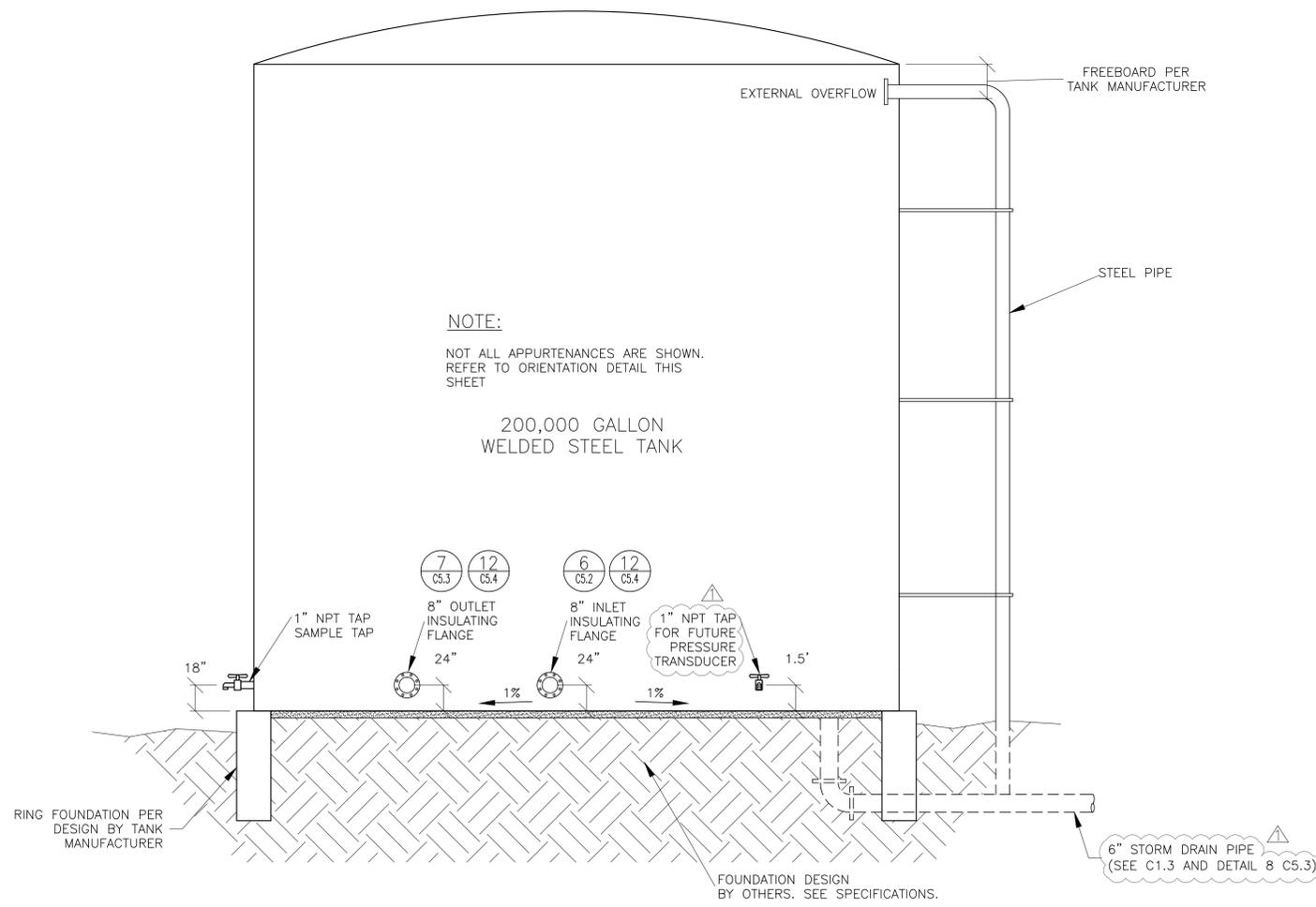
**TANK ORIENTATION**  
SCALE: 1" = 5'



**1**  
DETAIL

N.T.S.

GRAPHIC SCALE MEASURES 1 INCH ON FULL-SIZE PLANS.



**10** TANK ELEVATION SCHEMATIC

NOT TO SCALE, NOT TO PERSPECTIVE



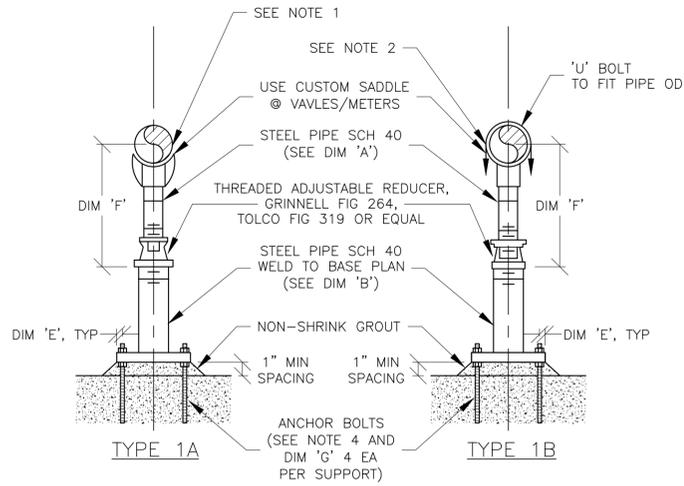
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GARBVILLE SANITARY DISTRICT  
ALDERPOINT ROAD TANK REPLACEMENT  
PROFILE, SECTIONS AND TANK ORIENTATION  
GARBVILLE SANITARY DISTRICT  
GARBVILLE, CA

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SHEET	

C2.0



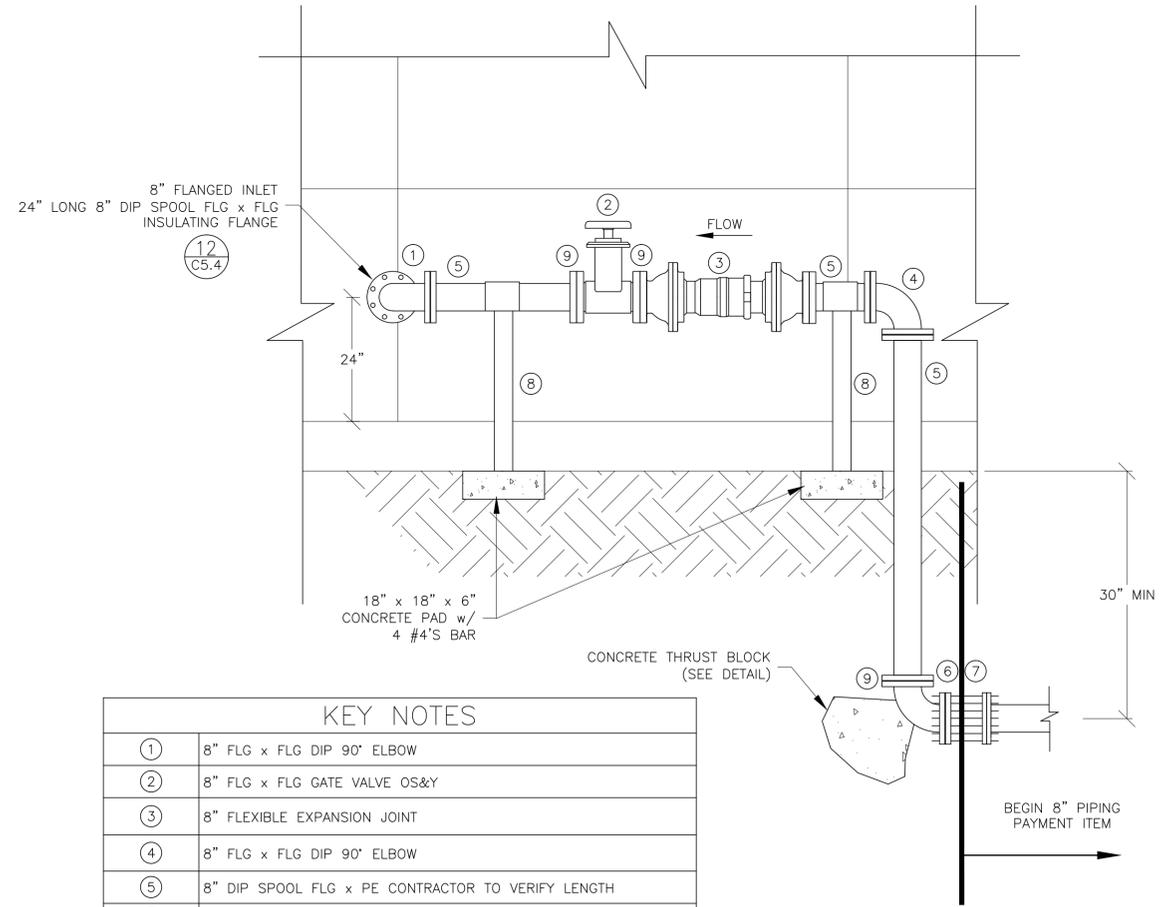
**NOTES:**

- FOR PIPES 2.5" THROUGH 36" DIAMETER, ADJUSTABLE PIPE SUPPORT, GRINNELL FIG 258, TOLCO FIG 317, 319.
- FOR PIPES 4" THROUGH 36" DIAMETER, PIPE SUPPORT TO BE ADJUSTABLE SADDLE SUPPORT, GRINNELL FIG 259, TOLCO FIG, 318, 319, OR PRIOR APPROVED EQUAL.
- FOR VALVES, METERS, AND OTHER NON-CIRCULAR ITEMS, USE A CUSTOM SADDLE TO FIT PROFILE OF ITEM.
- ANCHOR BOLTS SHALL BE HILTI THREADED BOLT w/ HY-50 EPOXY ADHESIVE. PROVIDE DOUBLE NUT AND WASHER FOR LEVELING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DIM. 'G' FOR DIMENSIONS.
- USE SUPPORT TYPE 1B, UNLESS SUPPORT 1A IS SPECIFICALLY SHOWN ON THE DRAWINGS.
- GALVANIZE ALL PARTS AFTER FABRICATION.

NOMINAL PIPE SIZE	A	B	C	D	E	F (APPROX)		G ANCHOR BOLT	
						(MINIMUM)	(MAXIMUM)	DIA.	EMBED.
2 1/2	1 1/2	2	6	3/8	1	7	11 1/2	3/8	3
3	1 1/2	2	6	3/8	1	7 5/16	11 13/16	3/8	3
3 1/2	1 1/2	2	6	3/8	1	7 9/16	12 1/16	3/8	3
4	2 1/2 TO 3	3	7 1/2	1/2	1 1/8	10 1/4	14 3/4	1/2	3 1/2
6	2 1/2 TO 3	3	7 1/2	1/2	1 1/8	11 9/16	16 1/16	1/2	3 1/2
8	2 1/2 TO 3	3	7 1/2	1/2	1 1/8	13 9/16	16 1/16	1/2	3 1/2
10	2 1/2 TO 3	3	7 1/2	1/2	1 1/8	14 5/8	19 1/8	1/2	4
12	2 1/2 TO 3	3	7 1/2	1/2	1 1/8	15 5/8	20 1/8	1/2	4
14	3	4	9	5/8	1 1/4	18 7/8	23 3/8	5/8	4
16	2	4	9	5/8	1 1/4	19 7/8	24 3/8	5/8	4
18	4	6	11	3/4	1 1/2	22 1/4	26 3/4	3/4	5
20	4	6	11	3/4	1 1/2	23 1/4	27 3/4	3/4	6
24	4	6	11	3/4	1 1/2	26 1/2	31	3/4	7
30	4	6	11	3/4	1 1/2	29 5/8	34 1/8	3/4	8
36	4	6	11	3/4	1 1/2	32 5/8	37 1/8	3/4	8

**4 PIPE SUPPORT**

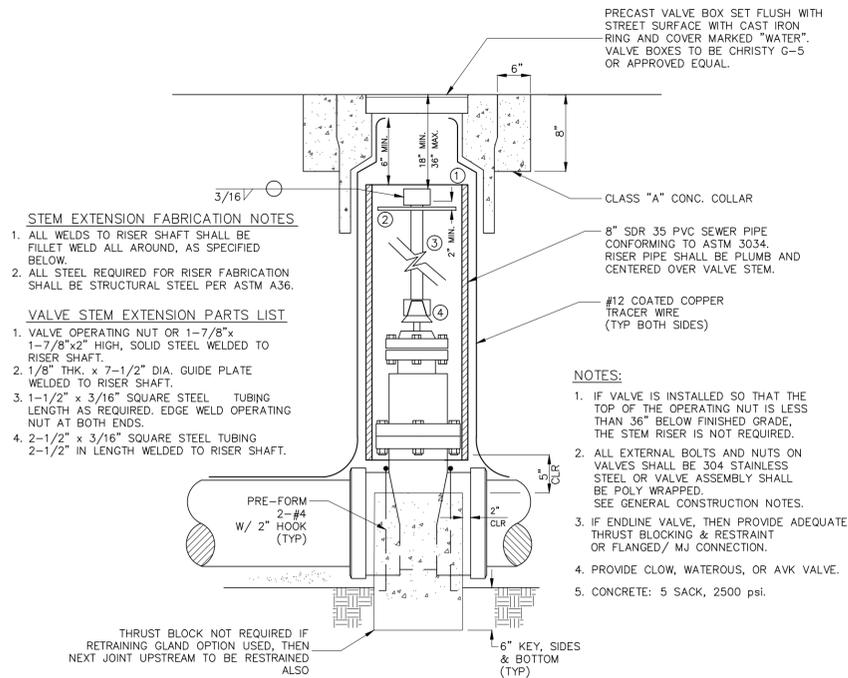
N.T.S.



①	8" FLG x FLG DIP 90° ELBOW
②	8" FLG x FLG GATE VALVE OS&Y
③	8" FLEXIBLE EXPANSION JOINT
④	8" FLG x FLG DIP 90° ELBOW
⑤	8" DIP SPOOL FLG x PE CONTRACTOR TO VERIFY LENGTH
⑥	8" RMJ x RMJ DIP 90° ELBOW
⑦	8" MECHANICAL JOINT RESTRAINT
⑧	PIPE SUPPORT (SEE DETAIL)
⑨	MECHANICAL JOINT RESTRAINT

**6 8" INLET DETAIL**

N.T.S.



**STEM EXTENSION FABRICATION NOTES**

- ALL WELDS TO RISER SHAFT SHALL BE FILED WELD ALL AROUND, AS SPECIFIED BELOW.
- ALL STEEL REQUIRED FOR RISER FABRICATION SHALL BE STRUCTURAL STEEL PER ASTM A36.

**VALVE STEM EXTENSION PARTS LIST**

- VALVE OPERATING NUT OR 1-7/8" x 1-7/8" x 2" HIGH, SOLID STEEL WELDED TO RISER SHAFT.
- 1/8" THK. x 7-1/2" DIA. GUIDE PLATE WELDED TO RISER SHAFT.
- 1-1/2" x 3/16" SQUARE STEEL TUBING LENGTH AS REQUIRED. EDGE WELD OPERATING NUT AT BOTH ENDS.
- 2-1/2" x 3/16" SQUARE STEEL TUBING 2-1/2" IN LENGTH WELDED TO RISER SHAFT.

**NOTES:**

- IF VALVE IS INSTALLED SO THAT THE TOP OF THE OPERATING NUT IS LESS THAN 36" BELOW FINISHED GRADE, THE STEM RISER IS NOT REQUIRED.
- ALL EXTERNAL BOLTS AND NUTS ON VALVES SHALL BE 304 STAINLESS STEEL OR VALVE ASSEMBLY SHALL BE POLY WRAPPED. SEE GENERAL CONSTRUCTION NOTES.
- IF ENDLINE VALVE, THEN PROVIDE ADEQUATE THRUST BLOCKING & RESTRAINT OR FLANGED/ MJ CONNECTION.
- PROVIDE CLOW, WATEROUS, OR AVK VALVE.
- CONCRETE: 5 SACK, 2500 PSI.

**5 TYPICAL GATE VALVE AND VALVE BOX WITH RISER**

N.T.S.



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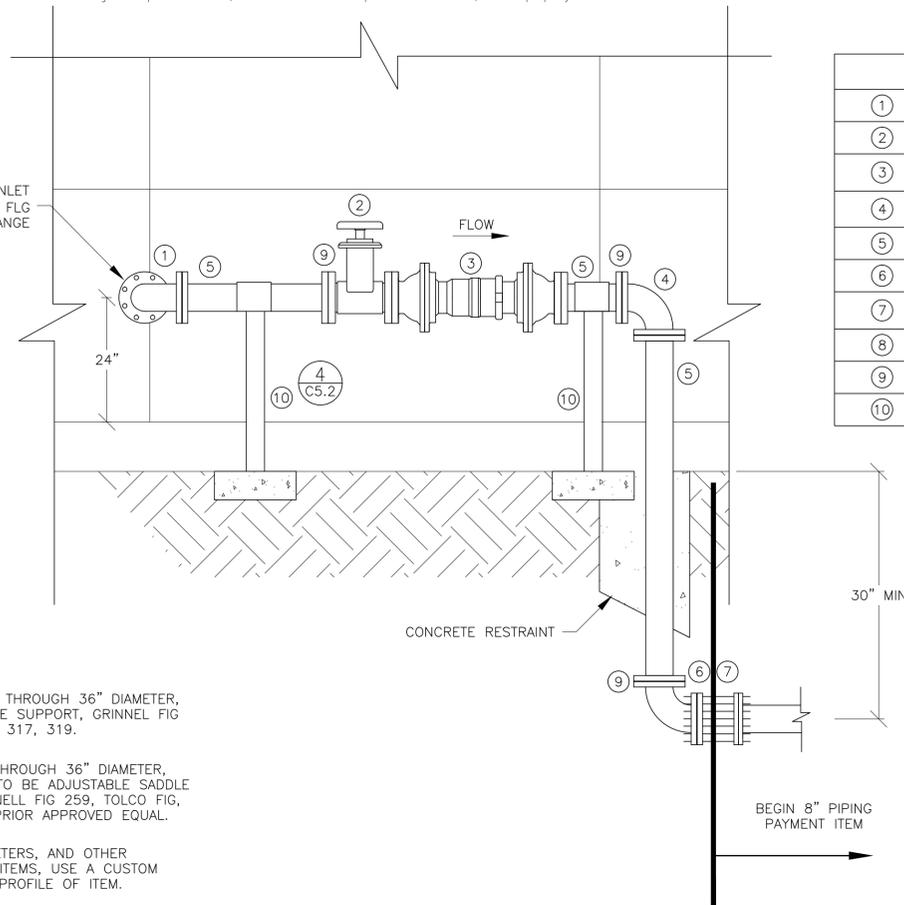
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GARBVILLE SANITARY DISTRICT  
ALDERPOINT ROAD TANK REPLACEMENT  
DETAILS  
GARBVILLE SANITARY DISTRICT  
GARBVILLE, CA

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SHEET	C5.2

8" FLANGED INLET  
24" LONG 8" DIP SPOOL FLG x FLG  
INSULATING FLANGE

12  
C5.4

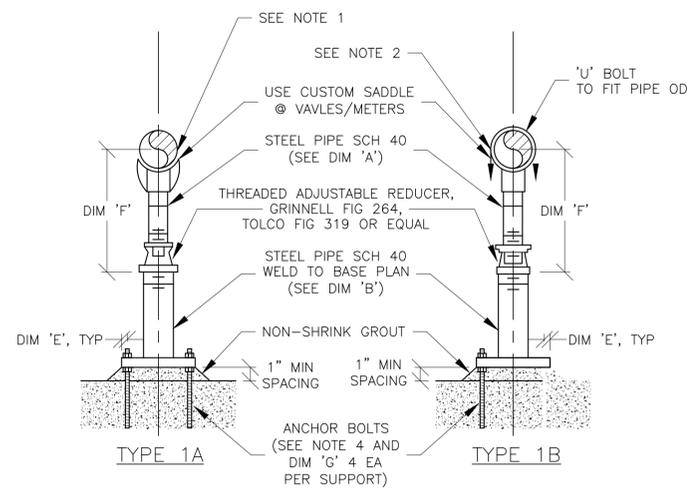


KEY NOTES

①	8" FLG x FLG DIP 90° ELBOW
②	8" FLG x FLG GATE VALVE OS&Y
③	8" FLEXIBLE EXPANSION JOINT
④	8" FLG x FLG DIP 90° ELBOW
⑤	8" DIP SPOOL FLG x PE CONTRACTOR TO VERIFY LENGTH
⑥	8" RMJ x RMJ DIP 90° ELBOW
⑦	8" MECHANICAL JOINT RESTRAINT
⑧	PIPE SUPPORT (SEE DETAIL 4 SHEET C5.2)
⑨	MECHANICAL JOINT RESTRAINT
⑩	ADJUSTABLE PIPE SUPPORT

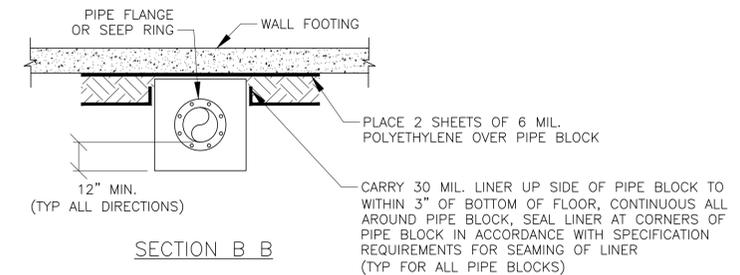
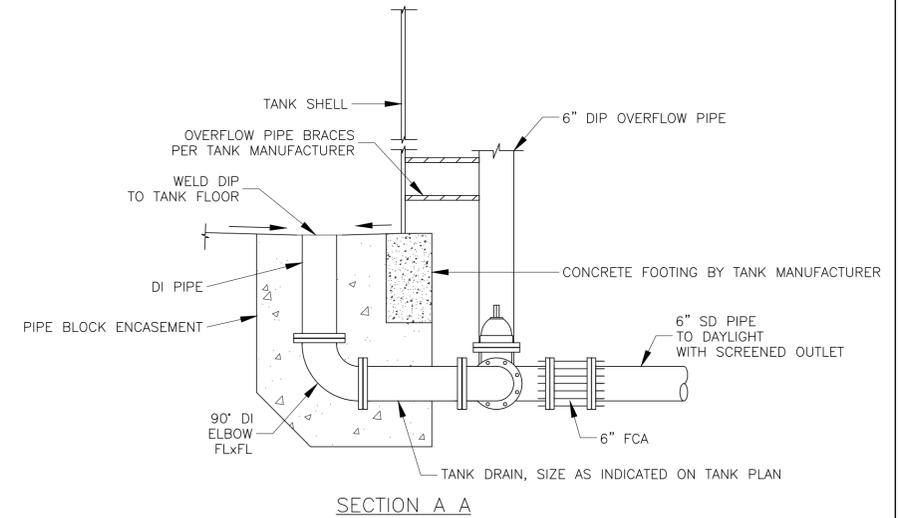
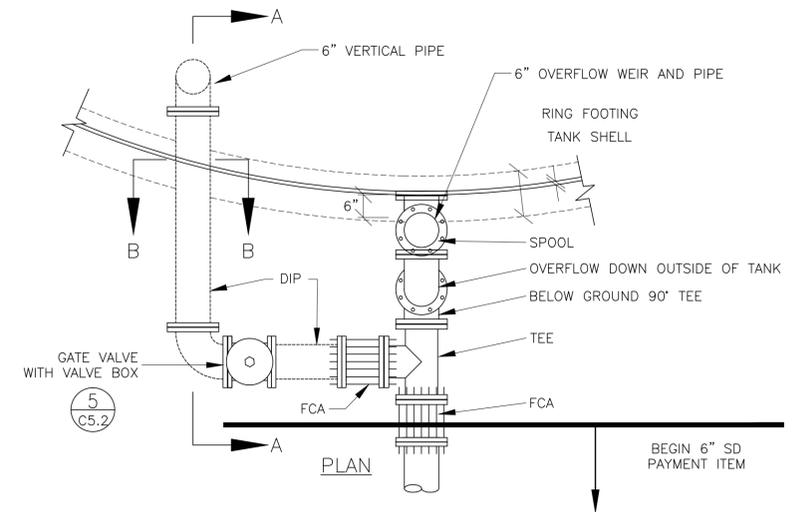
NOTES:

- FOR PIPES 2.5" THROUGH 36" DIAMETER, ADJUSTABLE PIPE SUPPORT, GRINNELL FIG 258, TOLCO FIG 317, 319.
- FOR PIPES 4" THROUGH 36" DIAMETER, PIPE SUPPORT TO BE ADJUSTABLE SADDLE SUPPORT, GRINNELL FIG 259, TOLCO FIG, 318, 319, OR PRIOR APPROVED EQUAL.
- FOR VALVES, METERS, AND OTHER NON-CIRCULAR ITEMS, USE A CUSTOM SADDLE TO FIT PROFILE OF ITEM.
- ANCHOR BOLTS SHALL BE HILTI THREADED BOLT w/ HY-50 EPOXY ADHESIVE. PROVIDE DOUBLE NUT AND WASHER FOR LEVELING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DIM. 'G' FOR DIMENSIONS.
- USE SUPPORT TYPE 1B, UNLESS SUPPORT 1A IS SPECIFICALLY SHOWN ON THE DRAWINGS.
- GALVANIZE ALL PARTS AFTER FABRICATION.



ADJUSTABLE PIPE SUPPORT TABLE  
DIMENSIONS (INCHES)

NOMINAL PIPE SIZE	A	B	C	D	E	F (APPROX)		G ANCHOR BOLT	
						(MINIMUM)	(MAXIMUM)	DIA.	EMBED.
2 1/2	1 1/2	2	6	3/8	1	7	11 1/2	3/8	3
3	1 1/2	2	6	3/8	1	7 5/16	11 13/16	3/8	3
3 1/2	1 1/2	2	6	3/8	1	7 9/16	12 1/16	3/8	3
4	2 1/2 TO 3	3	7 1/2	1/2	1 1/8	10 1/4	14 3/4	1/2	3 1/2
6	2 1/2 TO 3	3	7 1/2	1/2	1 1/8	11 9/16	16 1/16	1/2	3 1/2
8	2 1/2 TO 3	3	7 1/2	1/2	1 1/8	13 9/16	16 1/16	1/2	3 1/2
10	2 1/2 TO 3	3	7 1/2	1/2	1 1/8	14 5/8	19 1/8	1/2	4
12	2 1/2 TO 3	3	7 1/2	1/2	1 1/8	15 5/8	20 1/8	1/2	4
14	3	4	9	5/8	1 1/4	18 7/8	23 3/8	5/8	4
16	2	4	9	5/8	1 1/4	19 7/8	24 3/8	5/8	4
18	4	6	11	3/4	1 1/2	22 1/4	26 3/4	3/4	5
20	4	6	11	3/4	1 1/2	23 1/4	27 3/4	3/4	6
24	4	6	11	3/4	1 1/2	26 1/2	31	3/4	7
30	4	6	11	3/4	1 1/2	29 5/8	34 1/8	3/4	8
36	4	6	11	3/4	1 1/2	32 5/8	37 1/8	3/4	8



7 8" OUTLET DETAIL

8 DRAIN AND OVERFLOW DETAIL

N.T.S.

N.T.S.



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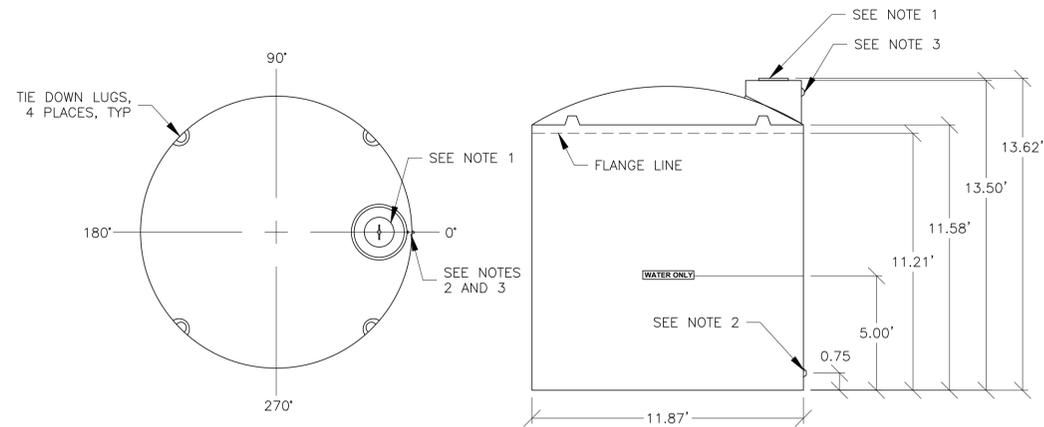
DATE	2/23/15
BY CHK:	JDB ACS
HISTORY / REVISION	BID ADDENDUM 1
NO.	1

GARBVILLE SANITARY DISTRICT  
ALDERPOINT ROAD TANK REPLACEMENT  
DETAILS

GARBVILLE SANITARY DISTRICT  
GARBVILLE, CA

DRAWN	JDB
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DATE	2/23/15
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SHEET	

C5.3

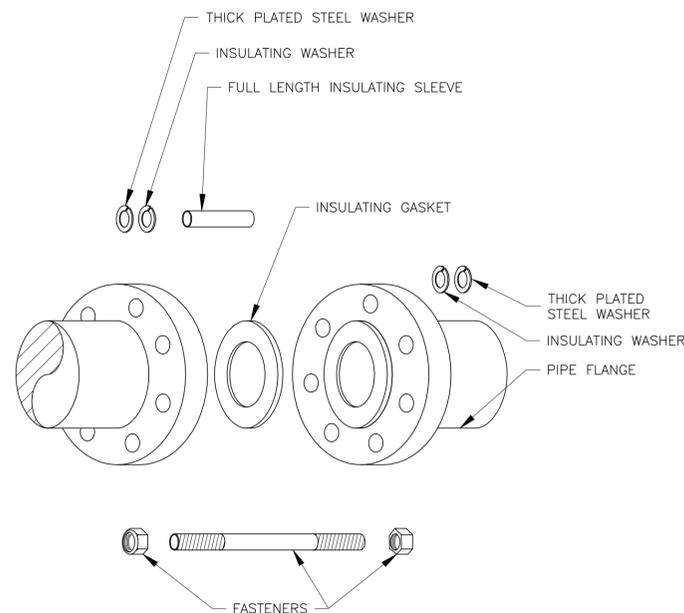


**NOTES:**

1. 18" PE THREADED-VENTED MANWAY WITH 15" ACCESS (P/N 34700087).
2. 2" PP DOUBLE FLANGED BOLTED FTG WITH EPDM GASKETS AND SS BOLTS (P/N 34100103).
3. 1-1/2" PP T&T BH BANJO FTG WITH EPDM GASKET (P/N 34100144).
4. BASE FITTINGS TO BE LEFT INSTALLED AT TIME OF SHIPMENT PER SII PROCEDURE.
5. CONSULT SNYDER'S GUIDELINE FOR USE AND INSTALLATION PRIOR TO DELIVERY (AVAILABLE ONLINE AT [www.snydernet.com](http://www.snydernet.com)).
6. SNYDER TANK PART # 5330200W94202 & 99803 (C).
7. CONTRACTOR TO SUBMIT SEISMIC ANCHORING PLAN PREPARED BY CALIFORNIA REGISTER CIVIL ENGINEER.
8. CONTRACTOR TO CLEAN AND DISINFECT PRIOR TO PLACING TANK IN SERVICE.
9. TANK HAS BEEN SUPPLIED BY OWNER.

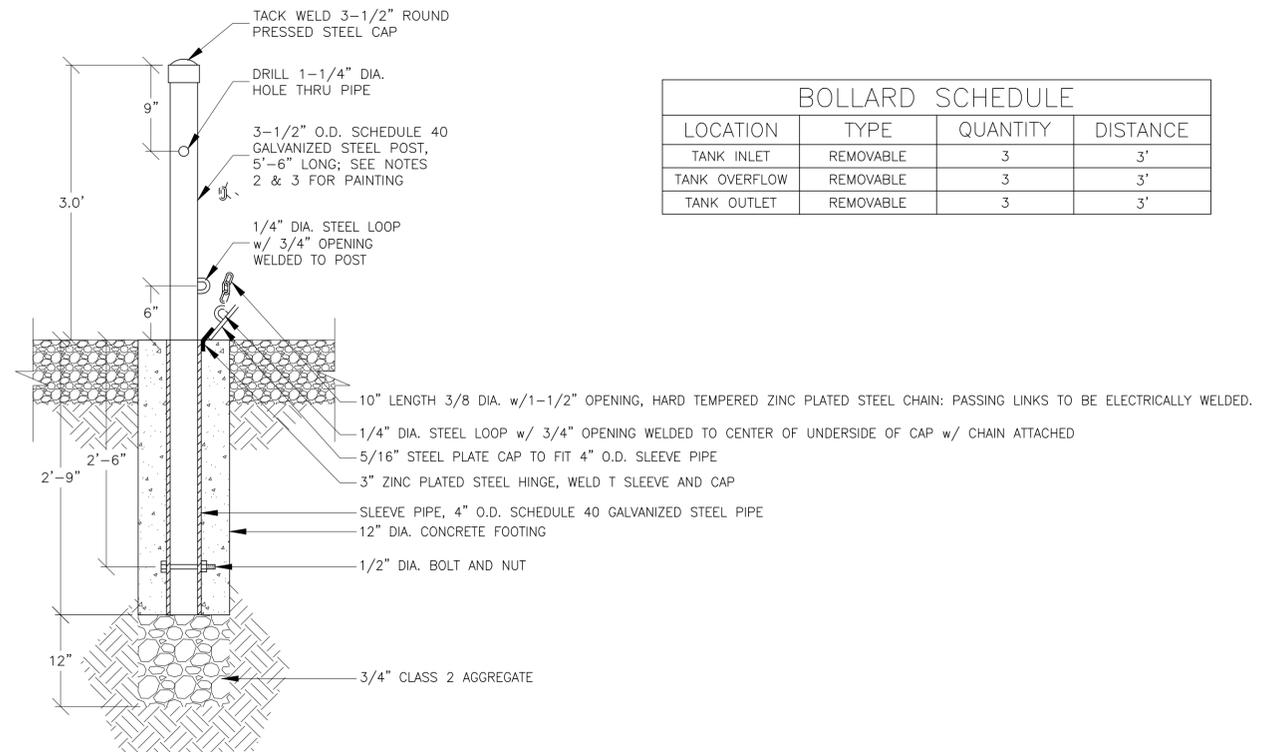
**14 TEMPORARY TANK DETAIL**

N.T.S.



**12 INSULATING FLANGE**

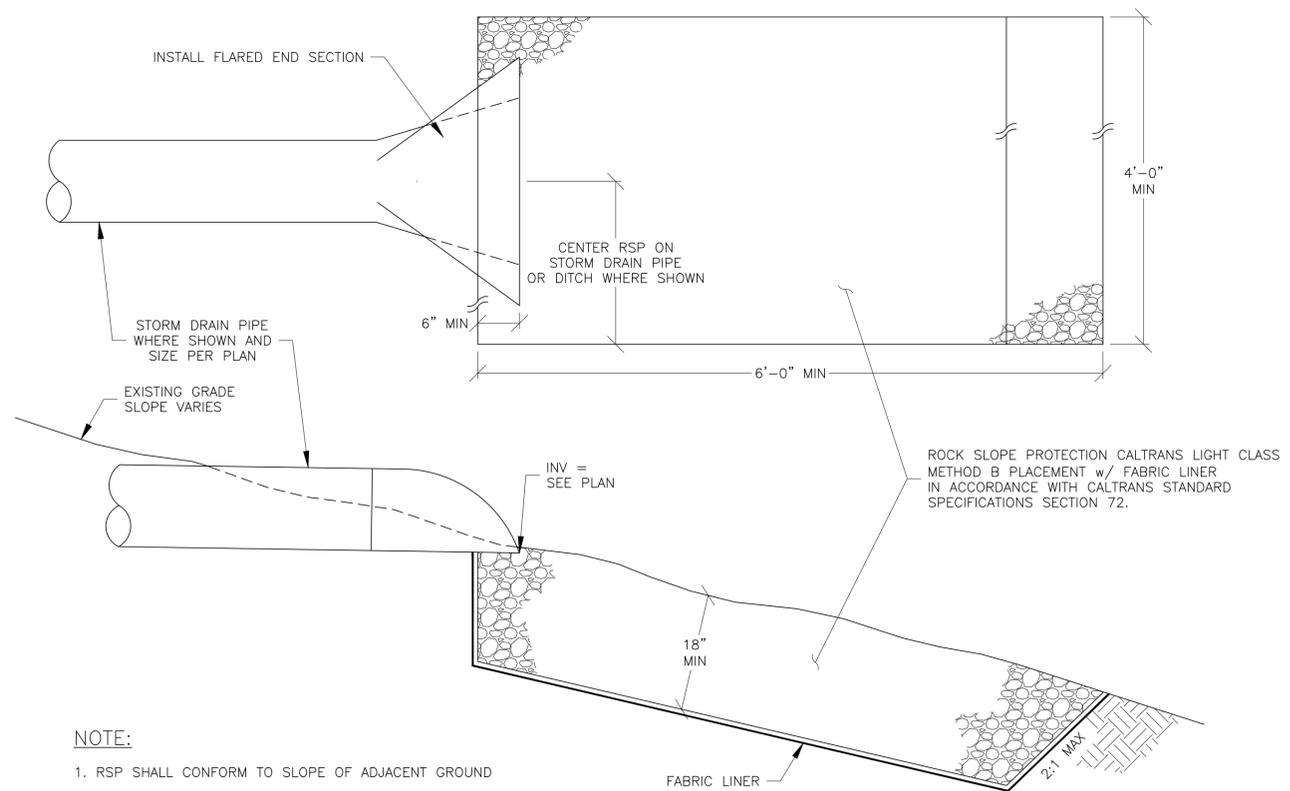
N.T.S.



BOLLARD SCHEDULE			
LOCATION	TYPE	QUANTITY	DISTANCE
TANK INLET	REMOVABLE	3	3'
TANK OVERFLOW	REMOVABLE	3	3'
TANK OUTLET	REMOVABLE	3	3'

**11 TYPICAL REMOVABLE BOLLARD**

N.T.S.



**NOTE:**

1. RSP SHALL CONFORM TO SLOPE OF ADJACENT GROUND

**13 ENERGY DISSIPATER**

N.T.S.

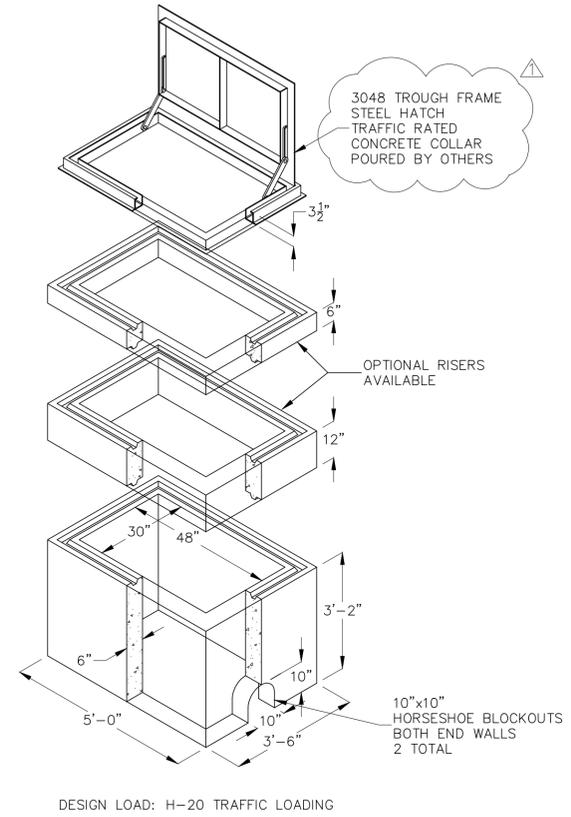


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GARBVILLE SANITARY DISTRICT  
ALDERPOINT ROAD TANK REPLACEMENT  
DETAILS  
GARBVILLE SANITARY DISTRICT  
GARBVILLE, CA

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15 **JENSEN PRECAST VALVE VAULT**  
**LVVWD 3048** **N.T.S.**



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GARBERVILLE SANITARY DISTRICT  
ALDERPOINT ROAD TANK REPLACEMENT  
**DETAILS**  
GARBERVILLE SANITARY DISTRICT  
GARBERVILLE, CA

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CHECK	ACS
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DATE	2/23/15
JOB NUMBER	7714.02
SHEET	C5.5