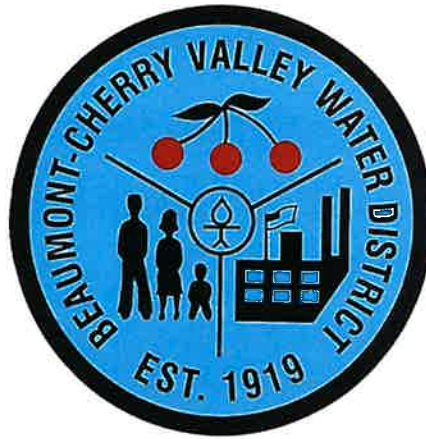


REQUEST FOR PROPOSALS (RFP)
FOR
ON CALL LAND SURVEYING SERVICES

June 17, 2022



Beaumont-Cherry Valley Water District
Attn: Mark Swanson, P.E.
560 Magnolia Avenue
Beaumont, CA 92223
mark.swanson@bcvwd.org

Approved for Release:

Mark Swanson, Senior Engineer
Beaumont-Cherry Valley Water District

KEY RFP DATES (Subject to change at discretion of District):

Issue Date:	June 17, 2022
District Project Manager:	Mark Swanson, P.E.
Letter of Intent (Non-Mandatory):	June 24, 2022
Deadline for Requests for Information:	June 27, 2022
Proposal Due Date:	July 06, 2022
Presentation/interviews (optional):	Will be notified if applicable
Anticipated Projected Award Date:	July 28, 2022

ATTENTION: CONTRACTORS AND SUBCONTRACTORS
MANDATORY REQUIREMENT for
[DEPARTMENT OF INDUSTRIAL RELATIONS REGISTRATION](#)

Contractors and subcontractors are required to be registered with the Department of Industrial Relations in order to 1) submit a bid or be listed on a bid for a public works project, or 2) work on a public works project awarded on or after April 1, 2015.

Application Process

Registration with DIR costs \$400 and covers the fiscal year (July 1–June 30th). Credit card payments can be processed within 24 hours, while other forms of payment may delay registration for up to eight weeks.

- [Activate or renew](#) your contractor registration
 - [Instructions for completing the contractor registration and renewal application](#)
 - [Contractor registration training video](#)

- [Frequently Asked Questions](#)

Who is required to register? Any Contractor or Subcontractor who bids on or performs work that requires the payment of prevailing wages under state law must be registered with DIR. This includes not only work performed by the building and construction trades, but also other types of work, including trucking, surveying, and testing, if that work is subject to prevailing wage requirements.

To be eligible Contractors and Subcontractors must:

- Be in good legal standing with no outstanding judgments or liens owed to workers or to the State of California.
- Not be [debarred from doing public works](#) by the United States Department of Labor or any state that has public works debarment laws.
- Have a California Contractors State License if one is required (non-construction contractors must provide their professional license number if one exists for their profession).

To learn more about Public Works Contractor Registration, please read the [Public Works Reforms \(SB 854\) fact sheet](#) and the [frequently asked questions](#). If you have additional questions about contractor registration, please [contact DIR](#) for assistance.

NOTICE INVITING PROPOSALS

NOTICE IS HEREBY GIVEN that proposals will be received from qualified firms for On Call Land Surveying Services.

Responses to this Request for Proposals (RFP) will be accepted until Wednesday, July 6, 2022 at 3:00 p.m. Proposals received after this date/time will not be considered and will be considered nonresponsive and will not be evaluated. It is the responsibility of the submitter to ensure that any proposals submitted have sufficient time to be received by the Beaumont-Cherry Valley Water District (BCVWD) prior to this proposal due date and time.

Proposals shall be enclosed in a sealed envelope and marked clearly with following information, formatted as follows:

"SEALED PROPOSAL FOR
ON CALL LAND SURVEYING SERVICES
DO NOT OPEN WITH REGULAR MAIL."
Beaumont-Cherry Valley Water District
Attn: Mark Swanson, P.E.
560 Magnolia Avenue
Beaumont, CA 92223

Proposals shall be mailed, hand delivered, or sent by courier service.

Proposals shall NOT be sent via telegraphic message, electronic mail or facsimile.

All notifications, updates and addenda will be posted on the District's "Current Solicitations" page at http://www.bcvwd.org/current_solicitations.html. Proposers shall be responsible for monitoring the site to obtain information regarding this solicitation. Failure to respond to required updates may result in a determination of a nonresponsive proposal.

LETTER OF INTENT (Non-Mandatory): Interested firms may submit a Letter of Intent of their pending proposal to the noted Project Manager by the date as shown on the cover page of this RFP. Letters shall be forwarded via certified mail or email. The purpose of the Letter of Intent is to provide point of contact information between the District Project Manager and the proposing firm(s).

BCVWD's regular office hours are 8 a.m. to 5 p.m., Monday – Thursday.

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**BEAUMONT-CHERRY VALLEY
WATER DISTRICT
REQUEST FOR PROPOSALS
ON CALL LAND SURVEYING SERVICES**

NOTICE TO SUBMITTERS / SUBMITTAL INSTRUCTIONS

1. **DUE DATE AND TIME:** Proposals for this On Call Land Surveying Services RFP, as described herein, will be received by the District until date and time shown on “Notice of Inviting Proposals.” Unless otherwise specified, proposals submitted by any other method than those identified in the Notice Inviting Proposals will be disqualified. Any changes to this RFP are invalid unless specifically modified by District and issued as a separate addendum document. Should there be any question as to changes to the content of this document, the District’s copy shall prevail. It is the Proposer’s sole responsibility to ensure that their proposal, inclusive of any or all addenda, is received by the District at the stated time and place. Any Proposal received after the scheduled closing time for receipt of RFPs will not be considered and will remain unopened.
 - a. It is the Proposer’s sole responsibility to ensure that their proposal, inclusive of any or all addenda, is submitted to the proper place and at the proper time. Proposers are encouraged to not wait until the deadline to submit proposals, as system-related difficulties and/or questions may arise. Any proposal received after the scheduled closing time for receipt of proposals will not be considered. To assure consideration, all proposals shall include specified Exhibits and additional submittals to address all evaluation criteria. Mistakes may be crossed out and corrections made adjacent, however, each correction must be initialed by the person signing the proposal.
2. **Note:** Submittals shall be sealed and will not be viewed by BCVWD until the closing date and time. **Proposals may be withdrawn.** If you need to withdraw your proposal, you may do so contacting the District any time before the proposal deadline.

SECTION I – PROJECT INTRODUCTION AND OVERVIEW

A. General Overview of BCVWD:

The District provides potable and non-potable water service to approximately 20,000 connections within City of Beaumont and the Community of Cherry Valley in Riverside County. The current population served by the District is about 59,000. The service area covers about 28 sq. mi.; the Sphere of Influence (SOI) or ultimate service area is about 37.5 sq. mi. BCVWD provides about 12,000 acre-ft/year (AFY) of potable water and about 1,900 AFY of non-potable water. BCVWD relies exclusively on groundwater from 24 wells, supplemented by recharged, imported State Project Water from the San Geronio Pass Water Agency. The imported water is spread at BCVWD's Groundwater Recharge Facility. BCVWD serves potable water through eight major and three smaller pressure zones; there are 14 tanks serving these pressure zones. The non-potable water system is planned for four pressure zones.

The District adopted a Capital Improvement Program (CIP) in March 2017, which identified capital expenditures for the following five years. These projects will be funded from various sources. Some of these projects will be performed "in-house" with BCVWD staff; many will be designed by consulting engineering firms retained by BCVWD based on a separate Request for Proposal (RFP) process.

It is BCVWD's intent to issue On Call Surveying Services Agreements to up to three (3) qualified firms; Task Orders will be issued for specific project assignments.

B. Purpose of Request for Proposals

BCVWD is seeking proposals to short list qualified firms to perform Surveying related services to assist in CIP implementation. The District will select consultant firms based on their qualified expertise to perform land surveying services. Upon final selection, a short list will be established, and an Agreement will be issued to the selected firm(s) for a three (3)-year period. Each qualified firm would still be required to submit a proposal for each project and, if accepted, a Task Order will be issued under the Agreement detailing the specifics of each project. **Note: Each Task Order issued under the On Call Land Surveying Services Agreement will be limited to \$100,000 or less.** The requirements for the work are further described in Section III – Scope of Work and Technical Specifications.

BCVWD is looking for firms that are experienced with the local conditions, flexible, offer a range of service, and above all, are responsive. BCVWD desires firms that are able to staff the project quickly and start work immediately upon receipt of an executed Task Order. BCVWD expects the firms to work closely with the District staff to ensure efficient completion of assignments.

The terms and conditions contained herein constitute the full and complete understanding of the parties. However, should your firm request additional contractual terms and conditions for consideration, such requests must be clearly identified on Exhibit D and submitted at the time of proposals. No additional terms and conditions will be accepted following receipt of proposals, and the District will consider such additional contractual terms and conditions as part of its evaluation process.

It is the intent of the District to receive responses to the RFP and, if appropriate, conduct individual interviews in order to select a firm which, in the opinion of the District, is best suited to perform the work. The purpose of this RFP, therefore, is to provide the District with the information necessary in order to select this firm. Following receipt of proposals the District may, at its discretion, elect to shortlist to a select few to participate in the interview stage of the selection process.

C. RFP Specific Dates

The following table identifies the estimated dates/time frame for receipt, evaluation, and award of these On Call contracts. Please note the following key dates when preparing your response to this RFP.

Table 1 – RFP Specific Dates

Description	Date
Release of RFP to Consultants	06/17/2022
Letter of Intent (Non-Mandatory)	06/24/2022
Deadline for Written Questions	06/27/2022
Responses to Written Questions Regarding RFP	06/30/2022
Proposal Due Date	07/06/2022
Proposal Review and Short List	TBD
Consultant Interviews (if applicable)	TBD
Consultant Recommendation	07/28/2022
Contract Execution and Approx. Start Date	08/15/2022

D. Selection Criteria:

The Criteria for Consultant selection will be based on, but not limited to, the following:

1. **Qualifications and Experience of Firm:** Provide a description of your firm’s expertise related to each type of service requested, and a full description of your recent experience directly related to the services requested.
2. **Experience and Qualifications of Personnel:** Experience and qualifications of personnel assigned to perform the work: A minimum of five years of experience in performing the services defined herein.
3. **Availability:** The District is looking for a responsive consultant to execute necessary services in an expeditious manner. When specific tasks are identified, Consultant shall endeavor to submit a proposal within seven (7) calendar days of BCVWD’s request and commence work within seven (7) calendar days upon receiving the task order. Consultant will be required to provide necessary staff resources to complete the task in a timely manner.

4. Safety Record for Field Survey / Construction Staking
5. Knowledge of BCVWD Standards/Guidelines
6. Price & Payment Terms
7. Exceptions Taken to RFP – Exhibit D
8. Office Location Proximity to the District

E. Evaluation and Selection Process

1. Submittal Review: A review committee comprised of District staff will review and evaluate each submittal to determine if it meets the requirements. Failure to meet the requirements set forth in the RFP may be cause for eliminating the proposer from further consideration.
2. Selection: Based on the committee’s evaluation and scoring of each applicant’s qualifications, the firms’ proposals will be ranked by the evaluation committee. It is anticipated that, for on call surveying services, up to three proposals will be selected with the highest ranking firms being selected for on call surveying services. However, the District reserves the right to consider the overall distribution of contracts and may award individual project purchase task orders as part of the on call agreements as it deems necessary to achieve balance, regardless of the assigned rank.
3. Short List: The approved “Short List” will be valid for three (3) years. The District has the right to add and remove firms from the list during the three (3) year time period. The District has the right, at its sole discretion, to qualify additional firms throughout this period.
4. Consultant Rotation: Projects or tasks awarded pursuant to the established list of On Call Consultant(s) will be assigned at the District’s sole discretion. District will consider the balance of awards for such assignments throughout the term of the contract(s); however, the District is in no way obligated to assure such workload or monetary distribution.
5. Evaluation Criteria: The committee may interview the top ranking proposers. The District reserves the right to begin negotiations and enter into an agreement without interview or further discussions. The evaluation process will use 80% as a weighting factor for the Technical Proposal and 20% for the Fee Schedule. The Technical Proposal evaluation criteria and weighting are as follows:

Technical RFP Evaluation Criteria	Weight of Score
Past performance and qualifications of the firm on similar projects.	25%
Familiarity with the District's geographic region and the aquifer(s) within the region.	20%
Ability to complete the project within the proposed time frame.	15%
The proposed project approach, scope, manner, and thoroughness in which it is presented in the proposal.	20%
Firm's experience, staff availability, stability, financial responsibility, and past performance on similar projects.	20%

6. The Fee Schedule shall be a weighted percentage of the lowest proposal fee divided by the proposal fee being evaluated.

MISCELLANEOUS:

Performance of work due to Covid-19:

Due to the current COVID-19 Pandemic; non-essential applicants, suppliers and consultants must currently perform work remotely and may not be permitted onsite at this time. However, when District facilities are open to the public for such activities, it is anticipated that Consultant may be required to attend on-site and/or remote meetings as the actual work activities proceed and said Consultants shall prepare cost associated with each style of meeting in their specific task order activities when awarded for any specific project.

SECTION II – PROPOSAL REQUIREMENTS

A. Proposal Format, Content, and Organization

The emphasis of the proposal should be on responding to the requirements set forth herein. In addition, proposers need to demonstrate their capabilities, background, and expertise in order for the District to effectively evaluate the proposals, and award to the company that provides the best value to the District based on the selection criteria in Section I. To assist in best understanding the qualifications and capabilities of each firm, please include a response to each of the following items in the order presented:

1. Transmittal or Cover Letter: Indicate the services that will be submitted. Provide a brief description of the firm's expertise related to each type of services described; also, please discuss the proximity of company's resources to the District's offices and facilities. No more than 2 pages.
2. Executive Summary: Include a brief summary of the firm's origin, background, and size of the company, an organizational chart, the overall capabilities of the organization, appropriate licenses and certifications, and proximity of company's resources to the District's offices and facilities.
3. Statement of Qualifications: **Provide a proposal that shall include the information requested in a. thru g. below:**
 - a. Qualifications and Experience (Firm and Personnel) – a description of the company's expertise related to land surveying services and a full discussion of the company's recent experience directly related to providing On Call Land Surveying Services. Resumes of key people to address experience and qualifications, educational background, and skills.
 - b. Personnel – resumes of key people to address experience and qualifications, educational background, licenses, certificates and skills. Please include a description of each personnel's expertise related to each type of services described and a full discussion of each personnel's recent experience directly related to those services.
 - c. References (**Exhibit A**) – list three (3) former municipal (preferred) or private clients for whom comparable services have been performed within the last five years. Include the name, mailing address, and telephone number of each client's principal representative.
 - d. List of Subcontractors (**Exhibit B**)
 - e. Consultant Business Information (**Exhibit C**)

- f. Proposal Rates – a schedule of hourly rates and percentage markup of reimbursable expenses, if any shall be included in the sealed RFP. The rates shall be valid for the term of the contract.
- g. Additions, Deletions and/or Exceptions (**Exhibit D**) – compliance with the District’s contractual terms and/or RFP requirements. The Proposer shall note any additions, deletions and/or exceptions to the contractual terms and/or RFP requirements. If there are no exceptions taken, please note in the form: “There are none”.

B. General Conditions

- 1. BCVWD reserves the right to withhold award of contract for a period of one hundred and twenty (120) days following RFP opening. All submittals received are considered firm for that 120-day period.
- 2. An On Call Surveying Services contract incorporating the terms and conditions contained herein will be sent to the successful proposers selected (up to 3 firms). Any additional terms and conditions requested by Proposer must be submitted at the time of your response as part of Exhibit D (Additions, Deletions, and/or Exceptions), attached and will be considered as part of the selection/negotiation process. Actual projects will be described and awarded based on individual purchase/task orders issued for each individual project.
- 3. The District may make such investigations as it deems necessary to determine the ability of the Proposer to provide the goods and/or service as specified, and the Proposer shall furnish to the District, as is commercially reasonable, all such information and data for the purpose of on call surveying service contracts. The District may discuss or negotiate with one or more firms prior to award and reserves the right to reject any proposal.
- 4. Any questions as to the meaning of the scope of work and/or technical specifications or other pre-proposal documents must be submitted in writing and shall be directed to Mark Swanson at (951) 845-9581, ext. 218, mark.swanson@bcvwd.org, who will provide instructions for submitting requests. To be given consideration, requests must be received by **June 27, 2022**. Any and all such interpretations and any supplemental instructions will be sent to all prospective Proposers not later than **June 30, 2022**. All addenda so issued shall become part of the contract documents. Under no circumstances may the firm contact any staff or Board member, other than Mark Swanson, for clarification or interpretation of any requirements herein.
- 5. The District reserves the right to reject any or all proposals, either separately or as a whole and to waive any informality in a proposal or to accept any proposal presented which it deems best suited to the interest of the District, and is not to be bound to accept the lowest priced proposals.
- 6. The cost for developing the proposal is the sole responsibility of the Proposer. All proposals submitted become the property of the District.

7. At the time of the opening of proposals each Proposer shall be presumed to have read and be thoroughly familiar with the Request for Proposals (including all Addenda).
8. District is subject to the Public Records Act, California Government Code Section 6250 *et seq.* As such, **all** required submittal information may be subject to disclosure to the general public. If any information is considered by the firm to be “confidential” or “proprietary,” those pages, (each page), shall be separately marked “confidential” or “proprietary.” However, BCVWD cannot guarantee that such marked pages will not accidentally become part of any public records request.

SECTION III – SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

A. Land and Topographic Survey Tasks

Project tasks shall include, but are not necessarily limited to, those items noted below. If the consultant feels that additional tasks are warranted, they must be clearly identified in the consultant's proposal.

The Consultant shall ensure the tasks outlined herein are performed by consultants' own responsible representative or designated alternate. The requirements described in this Section are neither limited nor comprehensive in nature but are the minimum necessary to meet the District's objectives.

Detailed work procedures are not included in the Scope of Work. The Consultant shall exercise independent, professional judgment and innovation in performance of any services or tasks listed herein in achieving the most effective and efficient design and product. The specific methodology by which the work will be accomplished shall be presented in the proposal. The Consultant is expected to expand on this scope in their proposal by incorporating specific areas of expertise and any other tasks required for a specific project and/or proposal requested. The Consultant's proposal may include additional work, shown separately in the fee schedule as alternate options, if in the Consultant's opinion such requirements are reasonable and necessary to meet the intent of this RFP.

The successful Consultant shall, at a minimum, provide all instruments, equipment, tools, personnel, and supervision required to provide the land surveying services as generally described, but not limited, as follows:

- ALTA Survey
- Aerial (base survey set up for Aerial Flight) and Topographic surveys
- Topographic Design survey
- Aerial Mapping and Photography Capabilities (with or without use of sub-contractor)
- Preparation of topographic maps, showing utilities, contours, spot elevations, top of curb and flow line elevations, street surface elevations, street centerlines and centerline monuments with coordinates, pavement limits, surface features, trees, valves, utility poles, right-of-way lines, etc., in AutoCAD 2018 or later in conformance with BCVWD's layering requirements.
- Verification of "as constructed" elevations
- Utility pothole elevations. (Potholing will be done by BCVWD or others)
- Locations of property lines, boundaries, easements, and rights of way; prepare boundary surveys and record of survey.
- Preparation of Legal Descriptions and Plats

- Final as-built surveys along with related documentation for inclusion in BCVWD's GIS.
- Construction staking for various types of work including site grading, pumping stations, tanks, wells, pipelines, etc.; layout, control surveys and benchmarks for construction.
- Record of Survey Mapping/ Corner Records
- Calculation of earthwork quantities in mass grading projects.

The scope of work is further expanded to include the following specific tasks as described:

- A. Establish horizontal control based on record data.
- B. Establish vertical control based on City of Beaumont, Riverside County (Cherry Valley), and San Bernardino County benchmarks.
- C. Perform and provide field topographic, cross-section, survey points, and base maps for engineering design purposes.
- D. Obtain record maps and centerline information from the County of San Bernardino and/or Riverside.
- E. Reduce field data and prepare a topographic map with one (1) foot contour intervals.
- F. Plot the location of centerline and right-of-way based on record maps and assessor's maps.
- G. Research and plot utilities within survey area.

All work shall be performed under the direction of a Registered Land Surveyor, in accordance with the Professional Land Surveyors Act ('PLSA'), Chapter 15, Article 3, Section 8276 and/or a licensed engineer authorized to perform Land Surveying registered with the State of California under Section 8731 of the PLSA. The surveyor shall maintain professional licenses required by the laws of the State of California at all times while under contract with the District.

Services for each contract will be provided on a negotiated fee basis per each work purchase/task order issued for each individual project or specific project request. No minimum amount of work is guaranteed under these agreements. Compensation will be based on a not-to-exceed limit agreed upon by both Consultant and District before work begins.

Submittals required from the surveyor may vary depending on a specific project or request. The surveyor shall be responsible for submittal of, but not limited, to following items described:

- a. Unedited files;
- b. Converted/ edited files;
- c. Traverses and other adjustments;
- d. ASCII format (electronic) files;
- e. Topographic base maps (electronic, AutoCAD 2018 or later, PDF and paper format);
- f. Survey maps (electronic, PDF and paper format); and
- g. Cut sheets

B. Deliverables

Deliverables shall be identified by the District as part of each work purchase/task order activities and shall be project specific.

For this RFP, each proposer shall provide:

1. Cover Letter

The Cover Letter shall be addressed to Mr. Mark Swanson, P.E., Beaumont-Cherry Valley Water District Director of Engineering, and at minimum, must contain the following:

- a. Identification of firm, including name, address, and telephone number.
- b. California Secretary of State Entity Number.
- c. Name, title, address, and telephone number of contact person during period of proposal evaluation.
- d. Signature of a person authorized to bind the firm to the terms of the proposal.

2. Executive Summary

In a brief narrative, describe the proposed solution by setting forth the overall approach and plans to meet the requirements of the RFP. The intent of this narrative is to convey to the District that the firm understands the objective of the requested service, the nature of the work, and the level of effort necessary to successfully provide the defined services. The narrative should stipulate how the firm's approach and plans to provide the services are appropriate to the tasks involved.

3. Scope of Work / Methodology

Provide a detailed description of the approach and methodology to be used to accomplish the Scope of Work of this RFP. The methodology should include:

- a. Describe the firm's approach to managing typical survey projects, including key personnel members, an implementation plan that describes in detail the specific plans to manage, control, and supervise the project in order to ensure satisfactory provision of services.
- b. Provide a description of a typical implementation plan consideration, including estimated timeframes and deliverables for various stages of the project.
- c. Provide three (3) sample cost estimates as part of the proposal (current hourly rate/ fee schedule) in a separate sealed envelope for three (3) types of task items, with proposed options or alternative tasks as follows:

- Sample Project 1: Construction staking of proposed 24” pipeline as shown in Exhibit E – Project 1.
- Sample Project 2: Site topographical survey of existing site with onsite facilities including existing tanks and pipeline facilities as shown in Exhibit E – Project 2.
- Sample Project 3: Site topographical and property line survey of existing streets for installation of new pipeline facilities as shown in Exhibit E – Project 3.

This is to be provided under separate cover and envelope clearly marked as “Sample Cost Proposal”. In addition, proposers are required to include the following sample statement in the fee schedule: “Fee schedule shall remain effective during the three-year contract period”.

- d. Detailed description of the specific tasks you will require from District staff. Explain what the respective roles of District staff and your staff would be to complete the tasks specified in the Scope of Work.
- e. Provide a detailed description and/or examples of your quality control procedures that ensures all work products delivered to the District (i.e., drafts and final versions) are of high-quality, accurate and have been thoroughly reviewed prior to delivery to the District.
- f. Provide at least two (2) examples, but no more than four (4) of land surveying reports and/or topographic design surveys and base mapping you prepared that demonstrate general level of experience and knowledge in the areas of land surveying, and the ability to carry out similar services described in the scope of work.

4. References

Provide at least three (3) references, past and present, using the same service being proposed and indicate the scope of work, date, and the name, email address, and telephone number of the client contact. Also, provide a complete list of other municipalities in California utilizing your land surveying services over the past five (5) years.

5. Required Statements

- a. A statement that all charges for services will be a “Not-To-Exceed” fee schedule, as submitted with and made part of said consultant’s quote for each individual purchase/task order.
- b. A copy of the consultant’s hourly rate schedule and a written statement that said hourly rate schedule is part of the consultant’s quote for use in invoicing for progress

- payments and for extra work incurred that is not part of this RFP or any individual purchase/ task order.
- c. A written statement by the consultant that all federal laws and regulations shall be adhered to notwithstanding any state or local laws and regulations. In case of conflict between federal, state, or local laws or regulations, the strictest shall be adhered to.
 - d. A written statement by the consultant shall allow all authorized federal, state, county, and the District officials access to place of work, books, documents, papers, fiscal, payroll materials, and other relevant contract records pertinent to this project. All relevant records shall be retained for at least three (3) years.
 - e. A written statement that the consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.
 - f. A written statement that the consultant shall comply with the California Labor Code., pursuant to said regulations entitled: Federal Labor Standards provisions; Federal Prevailing Wage Decision; and State of California Prevailing Wage Rates, respectively.
 - g. A written statement that the consultant shall comply with the Copeland Anti-kickback Act (18 USC 874 C) and the implementation regulation (29 CFR 3) issued pursuant thereto, and any amendments thereof.
 - h. A written statement that the Consultant is willing to execute an On Call Surveying Professional Services Agreement similar to the sample Agreement provided in Exhibit F as part of this Request for Proposal.

EXHIBITS

EXHIBIT A: REFERENCES

Proposer shall provide a minimum of three (3) Customer References, preferably municipalities within 5 years or. Local and similar size contracts references are preferred.

REFERENCE #1	
NAME OF FIRM	
ADDRESS	
CITY, STATE, ZIP CODE	
TELEPHONE #	()
CONTACT	
PROJECT NAME	
COMPLETION DATE	
APPROX. COST	
REFERENCE #2	
NAME OF FIRM	
ADDRESS	
CITY, STATE, ZIP CODE	
TELEPHONE #	()
CONTACT	
PROJECT NAME	
COMPLETION DATE	
APPROX. COST	
REFERENCE #3	
NAME OF FIRM	
ADDRESS	
CITY, STATE, ZIP CODE	
TELEPHONE #	()
CONTACT	
PROJECT NAME	
COMPLETION DATE	
APPROX. COST	

EXHIBIT A: REFERENCES

REFERENCE #4	
NAME OF FIRM	
ADDRESS	
CITY, STATE, ZIP CODE	
TELEPHONE #	()
CONTACT	
PROJECT NAME	
COMPLETION DATE	
APPROX. COST	
REFERENCE #5	
NAME OF FIRM	
ADDRESS	
CITY, STATE, ZIP CODE	
TELEPHONE #	()
CONTACT	
PROJECT NAME	
COMPLETION DATE	
APPROX. COST	
REFERENCE #6	
NAME OF FIRM	
ADDRESS	
CITY, STATE, ZIP CODE	
TELEPHONE #	()
CONTACT	
PROJECT NAME	
COMPLETION DATE	
APPROX. COST	

EXHIBIT B: LIST OF SUBCONTRACTORS

NAME UNDER WHICH SUBCONTRACT IS LICENSED	LICENSE NUMBER	ADDRESS AND PHONE NUMBER OF OFFICE, MILL OR SHOP	SPECIFIC DESCRIPTION SUBCONTRACT

(ATTACH ADDITIONAL SHEETS IF REQUIRED)

EXHIBIT C: PROPOSER'S BUSINESS INFORMATION

All proposers shall submit the information as requested below.

1. Length of time your firm has been in business: _____

2. Length of time at current location: _____

3. List types and business license number(s): _____

4. California State Contractor's License number: _____

5. Names and titles of all officers of the firm: _____

6. Is your firm a sole proprietorship doing business under a different name?

YES or NO

7. If yes, please indicate sole proprietorship name and the name you are doing business under: _____

8. Please indicate your Federal Tax Number: _____

9. Is your firm incorporated? YES or NO

10. Name and remittance address that will appear on invoices: _____

11. Physical Address _____

EXHIBIT E: SAMPLE SURVEY PROJECT INFORMATION (PROFESSIONAL SERVICES)

SAMPLE PROJECT 1:

NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

The District will require construction staking services along the alignment of the proposed 24" transmission pipeline from the proposed 2 million gallon (MG) Noble Tank II Project, south along International Park Road (Cherry Avenue) to Dutton Street in the community of Cherry Valley. The transmission pipeline is approximately 2,800 linear feet (LF) in length.

See the attached improvement plans for the Noble Water Storage Tank II and Transmission Pipeline for reference.

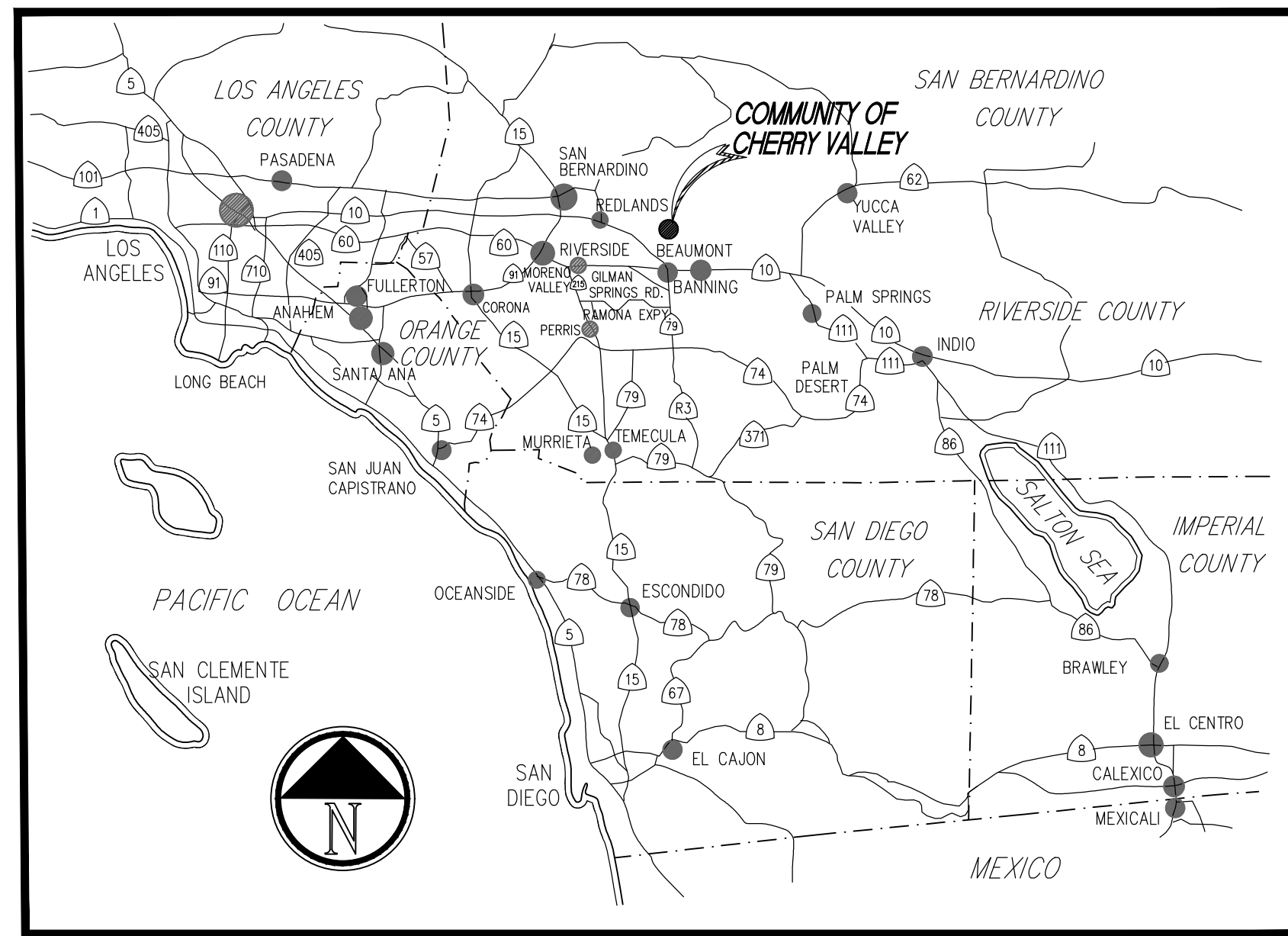
BEAUMONT - CHERRY VALLEY WATER DISTRICT

RIVERSIDE COUNTY, CALIFORNIA
PLANS FOR THE CONSTRUCTION OF
THE

NOBLE WATER STORAGE TANK II and TRANSMISSION PIPELINE

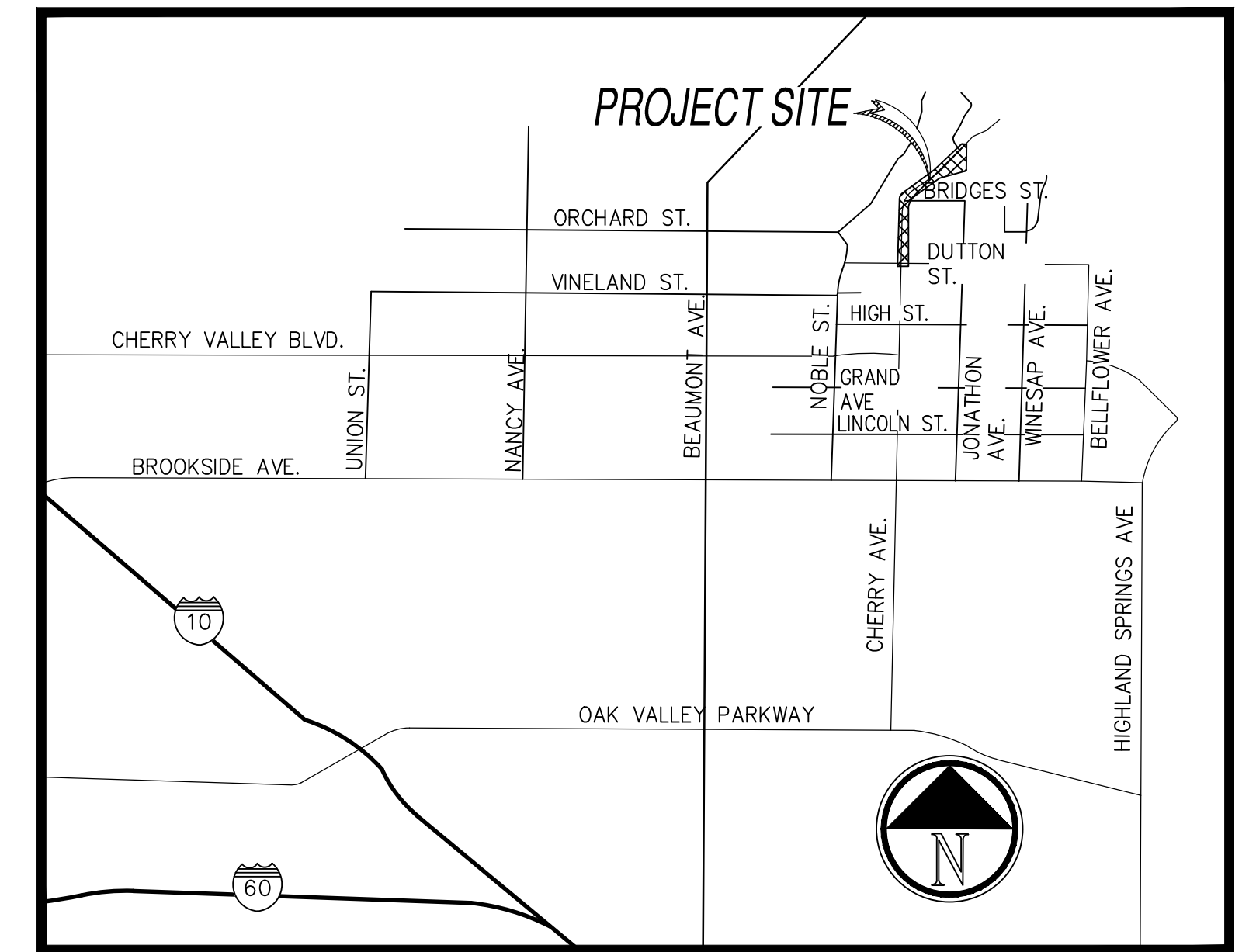
BOARD OF DIRECTORS

LONA WILLIAMS	PRESIDENT
ANDY RAMIREZ	VICE-PRESIDENT
DAVID HOFFMAN	SECRETARY
JOHN COVINGTON	TREASURER
DANIEL SLAWSON	BOARD MEMBER
DANIEL JAGGERS, P.E.	GENERAL MANAGER



VICINITY MAP

N.T.S.



LOCATION MAP

N.T.S.

ENGINEER'S NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY A CONTRACTOR SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THIS PLAN. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

ALL DISTANCES ARE HORIZONTAL MEASUREMENTS, CONTRACTOR TO VERIFY ALL QUANTITIES

**FOR REFERENCE ONLY
NOT FOR CONSTRUCTION**

BENCHMARK

THE BENCHMARK USED IS NATIONAL GEODETIC SURVEY (NGS) DATASHEET DESIGNATION "CHERRY", PID AH5235

DESCRIBED BY SOUTHERN CALIFORNIA EARTHQUAKE CENTER 1992 (MWC). STATION IS LOCATED ABOUT 5.3 MI EAST-SOUTHEAST OF YUCAIPA AND 5.1 MI NORTH-NORTHEAST OF BEAUMONT, JUST SOUTH OF THE RIVERSIDE-SAN BERNARDINO COUNTY LINE IN CHERRY VALLEY.

ELEVATION = 3738.870' (NAVD 88)

ALL ELEVATIONS SHOWN ON THESE DRAWINGS BASED ON NAVD88 DATUM, UNLESS OTHERWISE NOTED

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 6, BASED LOCALLY ON CONTINUOUS OPERATING REFERENCE STATIONS (CORS) "GISA" AND "MLFP" NAD83(2011) (EPOCH:2010.00). ALL BEARINGS AND DISTANCES SHOWN ON THIS SURVEY ARE GRID. GROUND DISTANCES MAY BE OBTAINED BY DIVIDING THE GRID DISTANCE BY THE COMBINED SCALE FACTOR OF 0.99986680. CALCULATIONS ARE MADE AT CP#1 BASE WITH COORDINATES N 2301573.205, E 6347696.704 GRID DISTANCE / 0.99986680 = GROUND DISTANCE

SOURCE OF TOPOGRAPHIC:

PROJECT CONTROL ESTABLISHED BY COZAD AND FOX INC. MARCH 2018.
AERIAL PHOTOGRAMMETRIC SURVEY PROVIDED BY INLAND AERIAL SURVEY, INC. MARCH 2018
FIELD SURVEY PERFORMED BY COZAD AND FOX MARCH 2018.

SHEET INDEX

- C-1.....TITLE SHEET
- C-2.....CONSTRUCTION NOTES
- C-3.....LEGENDS, SYMBOLS, AND ABBREVIATIONS
- C-4.....INDEX MAP & SITE PLAN
- C-5.....GRADING PLAN
- C-6.....DETAIL SHEET
- C-7.....GRADING SECTIONS
- C-8.....SITE PIPING PLAN & PROFILES - (STA 33+50.00 TO STA 39+00.00)
- C-9.....EXISTING & PROPOSED RESERVOIR APPURTENANCE PLAN
- C-10.....CIRCUMFERENTIAL STAIRS & PLATFORM
- C-11.....TANK ACCESS & ROOF VENTS
- C-12.....RESERVOIR INLET & OUTLET STRUCTURES
- C-13.....TRANSMISSION MAIN (CHERRY AVENUE) - (STA 9+00.00 TO STA 18+00.00)
- C-14.....TRANSMISSION MAIN (CHERRY AVENUE) - (STA 18+00.00 TO STA 26+00.00)
- C-15.....TRANSMISSION MAIN (INTERNATIONAL PARK RD) - (STA 26+00.00 TO STA 33+50.00)

REFER TO SPEC NO. _____

MS4394 IP210134

REC'D	COUNTY OVERSITE ENGINEER	REGISTRATION	DATE SIGNED
APPROVED AS TO COMPLIANCE WITH APPLICABLE COUNTY STANDARDS AND PRACTICES.			

LASERFICHE METADATA:

- A. TITLE: NOBLE WATER STORAGE TANK AND TRANSMISSION PIPELINE
- B. # OF SHEETS: 15
- C. PROJECT LOCATION: INTERNATIONAL PARK ROAD, SOUTH OF AVENIDA ALTURA BELLA. CHERRY AVENUE NORTH OF DUTTON STREET.
- D. TOWNSHIP 2S RANGE 1W SECTION 23 SBM
- E. DR CASE NUMBER: MS4394
- F. PLAN TYPE: WT
- G. FILE NUMBER:
- H. YEAR SIGNED: 2022
- I. IP NUMBER: IP210134



JOB NO. 1705500
DESIGNED R.L.V. / D.V.
DRAWN D.V. / C.H.
CHECKED B.FOX
APPROVED _____
REG. NO. _____

REV	DATE	DESCRIPTION	BY

BENCHMARK	SEE SHEET 1
SCALE	AS SHOWN

BEAUMONT-CHERRY VALLEY WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA

DISTRICT ENGINEER _____ R.C.E. NO. _____ DATE _____

NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

TITLE SHEET

SHEET NO. C-1
OF 15 SHTS
DRAWING NO.
AR/WO/PLP: 7367 / 7368

CONSTRUCTION NOTES

GENERAL

- EQUIPMENT AND MATERIALS, INCLUDING PIPING, VALVES, FITTINGS, DRAINS, PIPE SUPPORTS, ETC., ARE SHOWN ON THE DRAWINGS BY SYMBOLS. PIPE SIZE IS SHOWN AS STANDARD CALL OUT WITH SIZE AND PIPE DUTY. CONTRACTOR SHALL FURNISH AND INSTALL EQUIPMENT AND MATERIALS AS SHOWN ON THE DRAWINGS BY SYMBOLS AND NOTES, INCLUDING MINOR PIPE FITTINGS, ADAPTERS, AND APPURTENANCES NECESSARY TO PROVIDE COMPLETE, OPERABLE SYSTEMS.
- DIMENSION TO BE VERIFIED PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING EQUIPMENT DEPENDENT UPON DIMENSION. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS WITH ACTUAL FABRICATED EQUIPMENT DELIVERED TO PROJECT OR AS-BUILT CONDITIONS. CONTRACTOR SHALL ALLOW FOR ADJUSTMENTS TO CONNECTIONS TO EQUIPMENT DUE TO FABRICATION TOLERANCES, FIELD TOLERANCES AND INSTALLATION TOLERANCES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND CROSS CHECK DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS. FLOOR AND WALL OPENINGS, SLEEVES, PENETRATIONS AND OTHER CIVIL, STRUCTURAL, MECHANICAL, OR ELECTRICAL REQUIREMENTS MUST BE COORDINATED BEFORE CONTRACTOR PROCEEDS WITH CONSTRUCTION.
- IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON DRAWINGS.
- THE PRECISE DIMENSIONS AND LOCATIONS OF ALL OPENINGS AND PENETRATIONS SHALL BE DETERMINED FOR THE ACTUAL EQUIPMENT BEING FURNISHED. SHOP DRAWINGS WITH ADEQUATE ACCURATE DIMENSIONS MUST BE SUBMITTED AND REVIEWED PRIOR TO CONTRACTOR CONSTRUCTING FACILITIES THAT ARE AFFECTED BY SAID EQUIPMENT.
- CONTRACTOR IS ADVISED THAT THE WORK ON THIS PROJECT MAY INVOLVE WORKING IN A CONFINED SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING WORK AREA CLASSIFICATIONS AND IMPLEMENTATION OF ALL PRACTICES AND PROCEDURES REQUIRED FOR "CONFINED SPACES" UNDER THE CALIFORNIA ADMINISTRATIVE CODE, TITLE 8.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROJECT SITE SECURITY. PROJECT SITE SHALL REMAIN SECURED AT ALL TIMES BY EXISTING DISTRICT FENCE, INSTALLED FENCE OR TEMPORARY 6' HIGH CHAIN LINK FENCE.
- CONTRACTOR SHALL PROVIDE HIS OWN SANITARY AND OFFICE FACILITIES INCLUDING TELEPHONE AND TEMPORARY POWER.
- APPROVAL OF DISTRICT IMPLIES NO PERMISSION OTHER THAN THAT WITHIN THE DISTRICT'S JURISDICTION. ALL PERMITS REQUIRED BY LAW AND NOT ALREADY OBTAINED BY THE DISTRICT SHALL BE ACQUIRED BY CONTRACTOR. REQUIREMENTS OF DISTRICT SHALL TAKE PRECEDENCE OVER REQUIREMENTS OF OTHER AGENCIES ONLY WHERE DISTRICT REQUIREMENTS ARE MORE STRINGENT.
- CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT ON PRIVATE OR PUBLIC PROPERTY. CONTRACTOR MAY STORE MATERIALS AND EQUIPMENT ON SITE, ON DISTRICT'S PROPERTY IN DESIGNATED AREAS.

UNDERGROUND FACILITIES AND EXISTING IMPROVEMENTS

- THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES (PIPING, VALVES, CONDUCTORS, ELECTRICAL CONDUIT, ETC.) ARE SHOWN IN AN APPROXIMATE WAY ONLY AND ARE BASED ON OWNER'S EXISTING RECORDS. CONTRACTOR SHALL EXERCISE CARE DURING EXCAVATIONS TO AVOID DAMAGE TO SAID FACILITIES. CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND FACILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PROTECT ANY AND ALL FACILITIES.

AT LEAST 48 HOURS BEFORE COMMENCING ANY EXCAVATION, CONTRACTOR SHALL REQUEST UNDERGROUND SERVICE ALERT (1-800-227-2600) AND NON-MEMBER COMPANIES OR UTILITIES TO MARK OR OTHERWISE INDICATE THE LOCATION(S) OF THEIR SUBSURFACE FACILITIES INCLUDING, BUT NOT LIMITED TO, STRUCTURES, VAULTS, PIPING, VALVES, CONDUCTORS, CONDUIT, CABLES, AND SERVICE CONNECTIONS.

- THE FIRST ITEM OF WORK (WITHIN 45 DAYS OF EXECUTION OF CONTRACT, AND AT LEAST 10 DAYS PRIOR TO CONSTRUCTION), CONTRACTOR SHALL EXCAVATE AND EXPOSE ("POTHOLE") EXISTING FACILITIES IN LOCATIONS WHERE NEW FACILITIES ARE PROPOSED TO ESTABLISH THE EXACT HORIZONTAL LOCATION, SIZE, AND ELEVATION, AND DETERMINE IF THERE WILL BE AN INTERFERENCE WITH PROPOSED FACILITIES. CHANGES OR DELAYS CAUSED BY CONTRACTOR'S FAILURE TO PERFORM "POTHOLING" AND INTERFERENCE LOCATION WORK SHALL NOT BE ELIGIBLE FOR EXTRA WORK COMPENSATION OR TIME EXTENSION.

CONTRACTOR SHALL SUBMIT "POTHOLE" DATA (EXACT ELEVATION, SIZE, AND HORIZONTAL LOCATION) TO DISTRICT FOR EVERY UTILITY EXPOSED. BASED ON SAID "POTHOLE DATA", DISTRICT MAY MODIFY BELOW GRADE PIPING ALIGNMENT AND GRADE TO AVOID EXISTING PIPING AND WILL SUBMIT MODIFICATIONS, IF ANY, TO CONTRACTOR WITHIN TWO WEEKS OF RECEIPT OF ALL "POTHOLE" DATA.

- CONTRACTOR SHALL REPLACE IN KIND ALL EXISTING IMPROVEMENTS DAMAGED OR REMOVED BY CONSTRUCTION ACTIVITIES. LIMITS OF REMOVAL AND REPLACEMENT SHALL BE APPROVED BY THE DISTRICT PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.

SITE WORK AND GRADING

- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA BUILDING CODE (LATEST EDITION), SOILS REPORT, AND CONTRACT DOCUMENTS. IN THE EVENT OF CONFLICT BETWEEN THESE DOCUMENTS, THE MOST STRINGENT REQUIREMENTS SHALL PREVAIL.
- RELATIVE COMPACTION OF 95% SHALL MEAN SOIL COMPACTED TO A DRY DENSITY EXCEEDING 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D 1557, LATEST EDITION.
- ALL DEBRIS, BRUSH, AND RUBBISH SHALL BE REMOVED AND DISPOSED OF TO LEAVE THE AREA WHICH HAS BEEN DISTURBED WITH A NEAT AND FINISHED APPEARANCE FREE FROM ALL DEBRIS. WHERE REMOVAL OF SUBSURFACE OBSTRUCTIONS IS NECESSARY, CAVITIES CREATED BY THE REMOVAL SHALL BE CLEARED OF ALL LOOSE DEBRIS AND SOIL AND SHAPED TO PROVIDE ACCESS FOR BACKFILL AND COMPACTION EQUIPMENT. SAID MATERIALS SHALL BE LEGALLY DISPOSED OF IN AN APPROVED OFFSITE LOCATION (CITY OR COUNTY LANDFILL).
- ALL AREAS TO BE GRADED SHALL BE STRIPPED OF VEGETATION AND DELETERIOUS MATERIAL. VEGETATION AND DELETERIOUS MATERIALS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.

SITE WORK AND GRADING (CONTINUED)

- EXCAVATED NATIVE SOILS MAY BE UTILIZED FOR SELECT FILL MATERIAL, PROVIDED THESE MATERIAL ARE FREE OF VEGETATIVE MATTER AND OTHER DELETERIOUS SUBSTANCES, AND SHALL NOT CONTAIN ROCKS OR IRREDUCIBLE MATERIALS GREATER THAN 8" IN MAXIMUM DIMENSION.

ROCK MAY BE STOCKPILED ALONG, AND AS PART OF, THE 4' EARTHEN BERM OR USED AS RIP-RAP PROVIDED IT MEETS DETAIL REQUIREMENTS.
- IF REQUIRED, CONTRACTOR SHALL IMPORT SUFFICIENT QUANTITIES OF SELECT FILL MATERIAL TO ACHIEVE THE SPECIFIED FINISHED GRADES AND MINIMUM RELATIVE COMPACTION. IMPORT SELECT FILL MATERIAL SHALL BE INORGANIC, GRANULAR, NON-EXPANSIVE SOIL, FREE OF ROCKS OR LUMPS GREATER THAN 6" IN MAXIMUM DIMENSION. IMPORT SELECT FILL MATERIAL SHALL MEET THE USCS CLASSIFICATIONS OF SM, SP-SM, OR SW-SM WITH 5% TO 35% PASSING THE No.200 SIEVE.
- CONTRACTOR SHALL PREPARE SOIL BASED ON GEOTECHNICAL RECOMMENDATION AS IDENTIFIED IN REPORT DATED JULY 27, 2018. PREPARED BY CONVERSE CONSULTANTS ACCORDING TO THE INTENDED USE.
- SELECT FILL MATERIAL SHALL BE PLACED IN LIFTS NO GREATER THAN 8" IN UNCOMPACTED THICKNESS AND COMPACTED TO THE SPECIFIED MINIMUM RELATIVE COMPACTION PER GEOTECHNICAL SOILS REPORT SEC. 9.4. PREPARED BY CONVERSE CONSULTANTS
- DISTRICT SHALL APPROVE PREPARATION OF ALL NATURAL GROUND SURFACE PRIOR TO PLACEMENT OF FILL ON THAT SURFACE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING EROSION AND DUST, CONTROL MEASURES PER CONTRACTOR'S SWPPP, AND AS NECESSARY TO COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- CRUSHED MISCELLANEOUS BASE (CMB) SHALL BE PER SPPWC SECTION 200-2.4, FINE GRADATION.
- 3/4" GRADED CRUSHED ROCK OR 3/4" CRUSHED ROCK SHALL MEET SPPWC SECTION 200-1.2 FOR 3/4" GRADATION AND SHALL BE PLACED AND COMPACTED WITH A SMOOTH DRUM ROLLER.

PERMANENT ASPHALT CONCRETE PAVEMENT

PERMANENT ASPHALT CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH COUNTY OF RIVERSIDE, DEPT. OF TRANSPORTATION STANDARDS, AND PROJECT ENCROACHMENT PERMIT REQUIRES REVIEW PER DISTRICT @ NEXT PLAN CHECK FOR ALL WORK COMPLETED WITHIN CHERRY AVENUE AND INTERNATIONAL PARK ROAD. ALL SITE WORK A.C. PAVEMENT SHALL BE CONSTRUCTIBLE PER SPECIFICATION SECTION 02700, EXCEPT AS MODIFIED HEREAFTER.

A. PREPARATION

UPPER 12" OF SUBGRADE BENEATH CRUSHED BASE SHALL BE SCARIFIED AND COMPACTED TO 95% RELATIVE COMPACTION MINIMUM.

B. THICKNESS

UNLESS NOTED OTHERWISE, PERMANENT ASPHALT CONCRETE PAVEMENT SHALL BE HOT PLACED TO A MINIMUM OF 4" TOTAL THICKNESS PLACED OVER 8" OF CRUSHED MISCELLANEOUS BASE (PER SPPWC SECTION 200-2.4, FINE GRADATION). ASPHALT CONCRETE PAVEMENT AND CRUSHED MISCELLANEOUS BASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION MINIMUM.

C. ASPHALT CONCRETE PAVEMENT SPECIFICATIONS

PERMANENT PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH COUNTY OF RIVERSIDE AND PLACED IN TWO LIFTS. THE FIRST LIFT SHALL BE 2.8" AND MAY BE PLACED WITH A BLADE AND ROLLER. THE SECOND LIFT SHALL BE 1.2" AND SHALL BE PLACED WITH A SELF-PROPELLED MECHANICAL SPREADING AND PAVING MACHINE.

THE SECOND LIFT SHALL OVERLAP TRENCH EDGES 1' MINIMUM, AND EDGES SHALL BE FEATHERED TO MEET EXISTING PAVEMENT. AFTER PLACEMENT, PAVEMENT SHALL NOT VARY MORE THAN 0.01' FROM A STRAIGHT EDGE PLACED ACROSS ANY TRENCH.

PAVEMENT MATERIALS SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SECTION 203-6. UNLESS NOTED OTHERWISE, THE FIRST LIFT SHALL BE B-PG64-10 AND THE SECOND LIFT SHALL BE C2-PG64-10.

WHERE SHOWN ON THE DRAWINGS, THE EXISTING PAVEMENT SHALL BE GROUND DOWN 0.10' AND SHALL BE CAPPED WITH A C2-PG64-10 AC MIX. THE CAP SHALL BE INSTALLED WITH THE SECOND LIFT OF ACCESS ROAD PAVING.

D. REMOVAL OF EXISTING AC PAVEMENT

ALL PAVING REMOVED FOR ROAD REPLACEMENT AND/OR PIPELINE TRENCHING SHALL BE HAULED FROM SITE AND DISPOSED OF AT A LEGAL DISPOSAL SITE THE CONTRACTOR SHALL PROVIDE THE DISTRICT WITH A DISPOSABLE RECEIPT FOR DISPOSED MATERIAL.

WHERE EXISTING ASPHALT CONCRETE PAVEMENT IS TO BE REMOVED FOR INSTALLATION OF BELOW GRADE PIPING, CONTRACTOR SHALL SAW CUT EXISTING ASPHALT PAVEMENT EDGES (1' ADDITIONAL EACH SIDE OF TRENCH) TO STRAIGHT, NEAT, VERTICAL EDGES, EITHER PERPENDICULAR TO OR PARALLEL WITH THE TRENCH. CONTRACTOR SHALL EXCAVATE UNDERLYING SUBGRADE TO PROPER GRADE AND COMPACT IT TO 95% RELATIVE COMPACTION MINIMUM.

PERMANENT ASPHALT CONCRETE PAVEMENT (CONTINUED)

E. INSTALLATION

FINISHED GRADE SHALL MATCH EXISTING GRADES WHERE NEW PAVING ABUTS EXISTING PAVING. UNLESS NOTED OTHERWISE, ALL EXPOSED PAVING EDGES SHALL BE PLACED AGAINST 2"x4" REDWOOD HEADERS.

F. PAVEMENT STRIPING

ALL PAVEMENT STRIPING OR MARKINGS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED FOLLOWING PLACEMENT OF PERMANENT ASPHALT CONCRETE PAVEMENT OR PLACEMENT OF SLURRY SEAL OVER EXISTING ASPHALT CONCRETE PAVEMENT.

PIPING / VALVES

- PIPE MATERIALS AND TEST PRESSURES SHALL BE AS SPECIFIED IN PROJECT SPECS. ALL PIPING SHALL BE CONSTRUCTED WITH RESTRAINED JOINTS. RESTRAINED JOINTS SHALL BE FLANGED, VICTAULIC (GROOVED TYPE), WELDED, THREADED, OR EQUAL. FLANGED AND VICTAULIC JOINTS SHALL BE PROVIDED WHERE SHOWN.
- PIPELINE ELEVATIONS SHOWN ARE FOR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED. PIPELINES SHALL BE STRAIGHT GRADE BETWEEN ELEVATIONS SHOWN. CONTRACTOR SHALL PROVIDE ALL SHORTS, SPOOLS, AND FITTINGS NECESSARY TO MEET ELEVATIONS SPECIFIED.
- VALVES SHALL COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS, AS LISTED IN EQUIPMENT AND MATERIALS DESCRIPTIONS, AS SHOWN BY SYMBOL ON THE DRAWINGS, AND AS SPECIFIED HEREON. UNLESS NOTED OTHERWISE, VALVES 4" AND LARGER SHALL BE FLANGED AND FURNISHED WITH GEAR OPERATORS. ALL VALVES ABOVE GRADE SHALL BE FURNISHED WITH HAND WHEEL OPERATORS (8" MINIMUM DIAMETER). BURIED VALVES SHALL BE FURNISHED WITH VALVE BOXES AND STEM EXTENSIONS PER DISTRICT STANDARD DRAWINGS. ALL BURIED VALVES SHALL BE INSTALLED IN ACCORDANCE WITH DISTRICT STANDARD PLATE 2.
- UNLESS OTHERWISE SPECIFIED, FLANGED BUTTERFLY VALVES SHALL BE PROVIDED WITH DUCTILE IRON BODIES AND DUCTILE IRON DISCS.
- ALL PIPE ZONE BEDDING AND TRENCH BACKFILL SHALL BE IMPORTED WITH A MINIMUM S.E. EQUAL TO 30 AND SHALL BE APPROVED BY THE DISTRICT AND PER DISTRICT STANDARD DRAWING PLATE 6-1. BEDDING MATERIALS SHALL BE VIBRATED IN-PLACE TO ACHIEVE COMPACTION.

BACKFILL ABOVE THE PIPE ZONE SHALL BE EITHER COMMERCIAL IMPORTED MATERIAL OR SELECT NATIVE MATERIAL (SCREENED OR WASHED).
- PIPE SHALL BE INSTALLED IN TRENCH CONDITION AND AS SPECIFIED IN SPECIFICATION SECTION 15020. BACKFILL SHALL BE COMPLETED INCLUDING COMPACTION TESTS PRIOR TO PRESSURE TESTING. BACKFILL IN PIPE ZONE SHALL BE COMPACTED BY HAND TAMPING TO MINIMUM 90% COMPACTION. WHERE PIPE IS LOCATED UNDER CONCRETE SLABS, ALL TRENCH BACKFILL SHALL BE MINIMUM 95% COMPACTION.
- PIPING WHERE STUBBED THROUGH SLABS/FOUNDATIONS SHALL BE DOUBLE WRAPPED WITH 33 MIL PVC TAPE.
- CONTRACTOR SHALL BACKFILL WITH TWO SACK CEMENT/SAND SLURRY, OR CONTROLLED DENSITY FILL (CDF) IN ACCORDANCE WITH SPECIFICATION SECTION 02252, ALL PIPELINE CROSSINGS WITH EXISTING MAINLINE UTILITIES AND AT LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. THE TWO SACK CEMENT/SAND SLURRY SHALL EXTEND FIVE FEET ON EACH SIDE OF THE EXISTING FACILITY AND EXTEND FROM THE BOTTOM OF THE PROPOSED PIPELINE TO THE SPRINGLINE OF THE EXISTING FACILITY TO BE SUPPORTED.
- UNLESS OTHERWISE SHOWN, MINIMUM COVER ON BELOW GRADE PIPE SHALL BE 48".
- UNLESS NOTED OTHERWISE, TRENCH BACKFILL SHALL BE COMPACTED TO 90% RELATIVE COMPACTION (MINIMUM).
- ALL BELOW GRADE PIPE UNDER CONCRETE SLABS AND LESS THAN 48" BELOW THE TOP OF SLAB SHALL BE BACKFILLED WITH 2 SACK CEMENT/SAND SLURRY.
- ALL BELOW GRADE PIPE UNDER CONCRETE FOUNDATIONS SHALL BE BACKFILLED WITH 2 SACK CEMENT/SAND SLURRY TO THE BOTTOM OF THE FOUNDATION AND 2' BEYOND THE FOUNDATION LIMITS.
- UNLESS SPECIFIED OTHERWISE, PRESSURE RATING FOR ALL VALVES SHALL BE AS SPECIFIED SPECIFICATION SECTION 15020.
- ALL PIPING AND APPURTENANCES CONTAINING WATER (2" AND SMALLER) SHALL BE INSULATED PER SPECIFICATION SECTION 15020 AND ALL VALVES (2" AND SMALLER) SHALL BE INSULATED PER SPECIFICATION SECTION 15020.
- ALL NON-POTABLE DIP SHALL BE ENCASED IN PURPLE POLYETHYLENE BAGS. ALL POTABLE DIP SHALL BE ENCASED IN BLACK POLYETHYLENE BAGS. (CLEAR POLYETHYLENE BAGS MAY BE SUBSTITUTED IF BLACK IS UNAVAILABLE)
- ALL PIPE SHALL BE RESTRAINED. WHERE MECHANICAL JOINTS ENDS ARE CALLED OUT (M.J.), THE JOINT SHALL INCLUDE AN EBAA IRON SERIES 1100, "MEGA-LUG" TYPE JOINT RESTRAINT SYSTEM.

CONCRETE CONSTRUCTION

- ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTIONS 03100, 03200, 03300, AND NOTES HEREIN. UNLESS NOTED OTHERWISE, ALL CONCRETE FOUNDATIONS (INCLUDING, BUT NOT LIMITED TO, TANK FOUNDATIONS, BELOW GRADE MANHOLE AND VAULT BASES, AND SLABS ON GRADE) SHALL BE PLACED ON SOIL SCARIFIED TO A MINIMUM DEPTH OF 12" AND THEN COMPACTED TO 95% RELATIVE COMPACTION. ALL CONCRETE SHALL BE CLASS "A" STRUCTURAL CONCRETE UNLESS INDICATED OTHERWISE ON DRAWINGS. FOR ALL CONCRETE, USE TYPE II PORTLAND CEMENT.
- CONCRETE FINISHING
 - GRADE SLABS AND FLOOR SLABS SHALL RECEIVE A MONOLITHIC TROWEL FINISH FOLLOWED BY A LIGHT BROOM FINISH AS APPROVED BY DISTRICT.
 - ALL EXPOSED EXTERIOR FORMED CONCRETE SHALL RECEIVE A "SACKED" FINISH PER CAST-IN-PLACE CONCRETE SPECIFICATIONS, 03100, 03200, AND 03300.
- THE LOCATION OF ALL CONSTRUCTION JOINTS NOT SPECIFICALLY NOTED OR SHOWN SHALL BE APPROVED BY THE DISTRICT.
- ALL NON-SHRINK GROUT SHALL BE NON-METALLIC.

STRUCTURAL AND MISCELLANEOUS STEEL

- ALL STRUCTURAL AND MISCELLANEOUS STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 05100, AND 13200.
- STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND ERECTION.

STRUCTURAL AND MISCELLANEOUS STEEL (CONTINUED)

- ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION AND/OR AWWA D100. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATION (UNLESS NOTED OTHERWISE):

WIDE FLANGE (W AND WT) SECTIONS: ASTM A992 Fy=36 KSI
CHANNELS AND MISC. SHAPES (C,MC,S,M,HP): ASTM A36 Fy=36 KSI
ANGLES AND PLATES: ASTM A36 Fy=36 KSI
PIPE COLUMNS (STANDARD,X-STRG, XX-STRG): ASTM A53 TYPE E, GR B Fy=36 KSI
ASTM A500, GR B Fy=46 KSI
TUBES:

ALL WELDING SHALL COMPLY WITH AMERICAN WELDING SOCIETY (AWS) SPECIFICATIONS AND SHALL BE EXECUTED BY ELECTRIC ARC PROCESS WITH ELECTRODES HAVING A MINIMUM TENSILE STRENGTH OF 70KSI. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS SHALL BE PERFORMED USING "INNERSHIELD" AND "M-L-2" SEMI-AUTOMATIC EQUIPMENT. ALL WELDERS SHALL BE AWS CERTIFIED FOR THE TYPE OF WELDING PERFORMED.
- WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION, SPECIFICATION J2.2.B.
- NUTS ON BOLTS OF SLOTTED CONNECTIONS SHALL BE INSTALLED FINGER-TIGHT ONLY, WITH THREADS SPOILED, UNLESS NOTED OTHERWISE.
- STRUCTURAL STEEL EMBEDDED IN CONCRETE OR MASONRY SHALL BE UNPAINTED.
- UNLESS NOTED OTHERWISE, ALL MACHINE BOLTS, ANCHOR BOLTS, DEFERRED BOLTING DEVICES, AND FASTENERS SHALL BE 316 STAINLESS STEEL. UNLESS NOTED OTHERWISE, ALL ANCHOR BOLTS FOR ROTATING OR VIBRATING EQUIPMENT SHALL BE CAST-IN-PLACE OR DRILLED AND EPOXIED. EPOXY ANCHORS SHALL BE HILTI HIT C-100 SYSTEM, RED HEAD EPOX SYSTEM, OR EQUAL. PRIOR TO INJECTING EPOXY, EACH DRILLED HOLE SHALL BE CLEANED OUT WITH A NYLON BRUSH. CONTRACTOR SHALL INSTALL DOWELS AND ANCHOR BOLTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

WATER NOTES:

- ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE DISTRICT STANDARDS FOR THE FURNISHING OF MATERIALS AND THE CONSTRUCTION OF WATER AND RECYCLED WATER FACILITIES AND PREPARATION OF WATER SYSTEM PLANS; LATEST REVISION, AND THE ADOPTED ADDENDUMS THERETO.
- WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED IN THE STATE OF CALIFORNIA, EXPERIENCED IN WATER UTILITY CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA AT 811 / 800-227-2600 FOR LOCATION OF ALL UNDERGROUND UTILITIES, TWO WORKING DAYS PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL NOTIFY THE DISTRICT AT (951) 845-9581 TWO WORKING DAYS PRIOR TO COMMENCING WORK ON THE WATER UTILITY INSTALLATION. CONTRACTOR SHALL NOTIFY DISTRICT BY PRECEDING WEDNESDAY AT 4:00 P.M. PRIOR TO WORKING DURING THE WEEKEND. CANCELLATIONS SHALL BE NOTIFIED TO THE DISTRICT BY PRECEDING FRIDAY AT 3:00 P.M.
- NO EXISTING DISTRIBUTION SYSTEM VALVE SHALL BE OPERATED BY THE CONTRACTOR. DISTRICT PERSONNEL WILL OPERATE ALL NECESSARY VALVES.
- CONTRACTOR TO INSTALL MINIMUM 1" COPPER, TYPE K, SERVICE LATERALS IN ACCORDANCE WITH DISTRICT SPECIFICATIONS SHOWN ON DISTRICT STANDARD PLATE 6-2, PLATE 6-3, AND PLATE 12.
- CONTRACTOR SHALL COORDINATE ALL RECONNECTS WITH DISTRICT PERSONNEL PRIOR TO ANY CONNECTIONS OR RETIREMENTS OF ANY DISTRICT FACILITIES.
- CONTRACTOR SHALL BEAR ALL COSTS FOR THE CORRECTION OR REMOVAL AND REPLACEMENT OF DEFECTIVE WORK, AND ALL ADDITIONAL DIRECT AND INDIRECT COSTS THE CITY, COUNTY, OR DISTRICT MAY INCUR ON ACCOUNT OF DEFECTIVE WORK, INCLUDING THE COSTS OF ADDITIONAL ADMINISTRATIVE, PROFESSIONAL CONSULTANT, INSPECTION, TESTING, AND OTHER SERVICES.
- CONTRACTOR TO OBTAIN CONSTRUCTION PERMIT FROM DISTRICT & PAY INSPECTION & VALVE COVER DEPOSIT PRIOR TO CONSTRUCTION.
- CONTRACTOR TO OBTAIN NECESSARY PERMITS FROM CITY OF BEAUMONT AND/OR RIVERSIDE COUNTY, AS APPROPRIATE, PRIOR TO CONSTRUCTION.
- NO DEVIATIONS FROM THESE PLANS SHALL BE PERMITTED WITHOUT APPROVAL OF THE DISTRICT.
- EXISTING WATER MAINS SHALL NOT BE TAKEN OUT OF SERVICE FOR MORE THAN 4 HOURS. CONTRACTOR TO NOTIFY ALL WATER USERS AFFECTED BY SHUTDOWN A MINIMUM OF 48 HRS PRIOR TO ACTUAL SHUTDOWN. INDICATE DATE & PRECISE HRS THAT THE MAIN WILL BE OUT OF SERVICE.
- AIR VAC RELEASE ASSEMBLIES PER DISTRICT STD PLATES NO. 5-1 & 5-2 TO BE INSTALLED AT ALL HIGH POINTS WATER MAIN. ADDITIONAL ASSEMBLIES OVER THOSE SHOWN ON DRAWINGS MAY BE NECESSARY WHEN SUBSTRUCTURES REQUIRE A CHANGE IN LINE OR GRADE OF WATER LINE.
- ALL PIPE TO BE HYDRO TESTED, DISINFECTED & APPROVED PRIOR TO FINAL CONNECTION TO EXISTING WATER LINES.
- ALL MATERIALS TO BE OF DOMESTIC ORIGIN & NOT OF FOREIGN MANUFACTURE.
- FOR SEPARATION REQUIREMENTS BETWEEN WATER & RECYCLED WATER, STORM DRAINS, & SEWER LINES, SEE RIVERSIDE CO STD NO. 609 & CALIFORNIA CODE OF REGULATIONS, TITLE 22, SECTION 64572.
- CONTRACTOR TO FURNISH TO THE DISTRICT ELECTRONIC FILES IN AUTOCAD FORMAT OF SIGNED & APPROVED "RECORD DRAWINGS" & GIS DIGITAL DATA DEFINITION TABLES, PER DISTRICT STANDARDS, PRIOR TO FINAL ACCEPTANCE OF WORK.

Z:\1705500.DWG\NOBLE II TANK PLANS\C-2 - GENERAL NOTES.DWG PLOT DATE: 1/27/2022

Cozad & Fox, Inc.
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PREPARED UNDER THE SUPERVISION OF:
BRIAN D. FOX
 REGISTERED CIVIL ENGINEER NO. 57264



JOB NO. 1705500
 DESIGNED R.L.V. / D.V.
 DRAWN D.V. / C.H.
 CHECKED B.FOX
 APPROVED _____
 REG. NO. _____

REV	DATE	DESCRIPTION	BY

BENCHMARK
SEE SHEET 1
SCALE
AS SHOWN

**BEAUMONT-CHERRY VALLEY WATER
DISTRICT RIVERSIDE COUNTY, CALIFORNIA**

 DISTRICT ENGINEER

 R.C.E. NO.

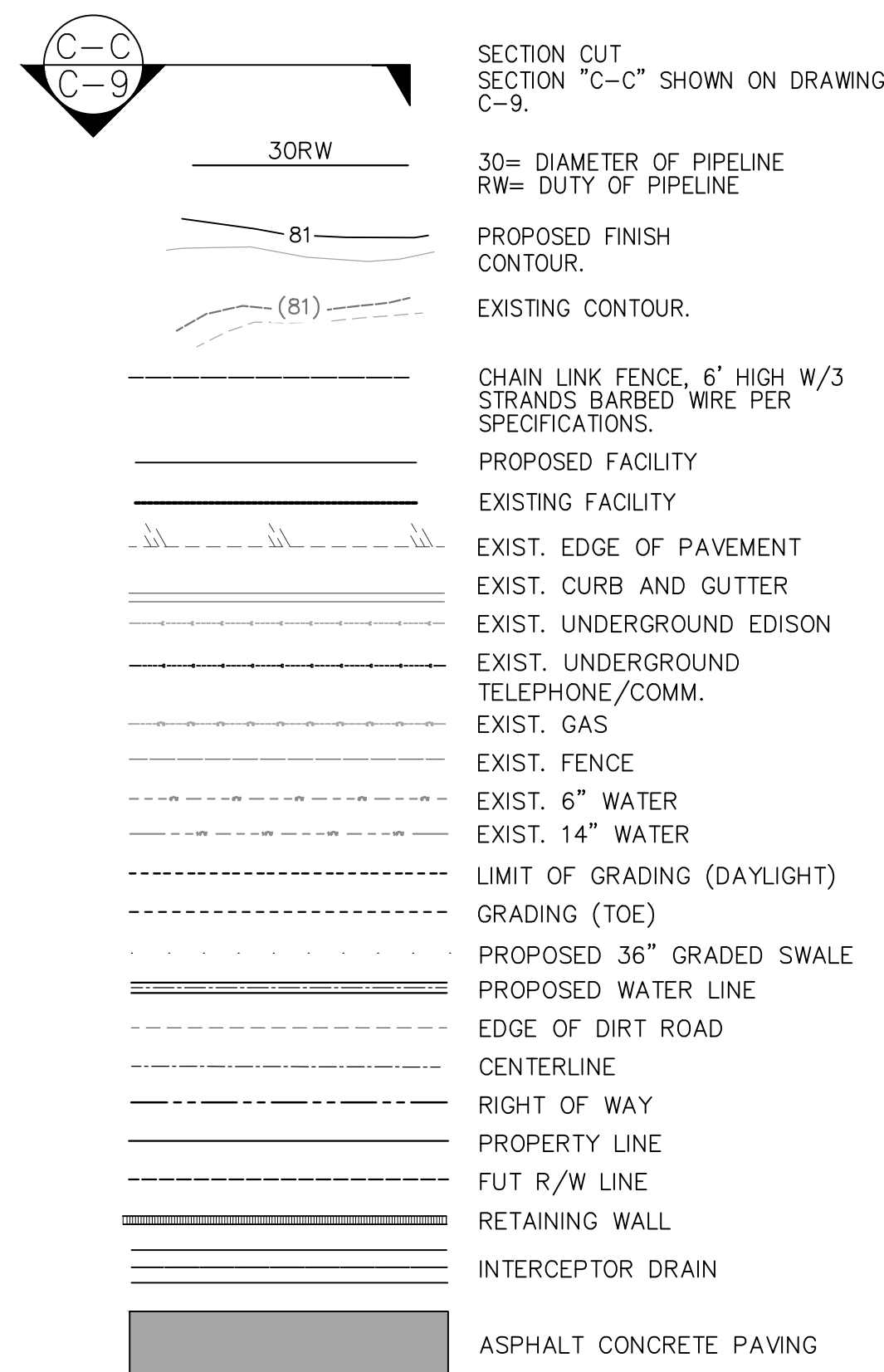
 DATE

**NOBLE WATER STORAGE TANK II
AND TRANSMISSION PIPELINE**

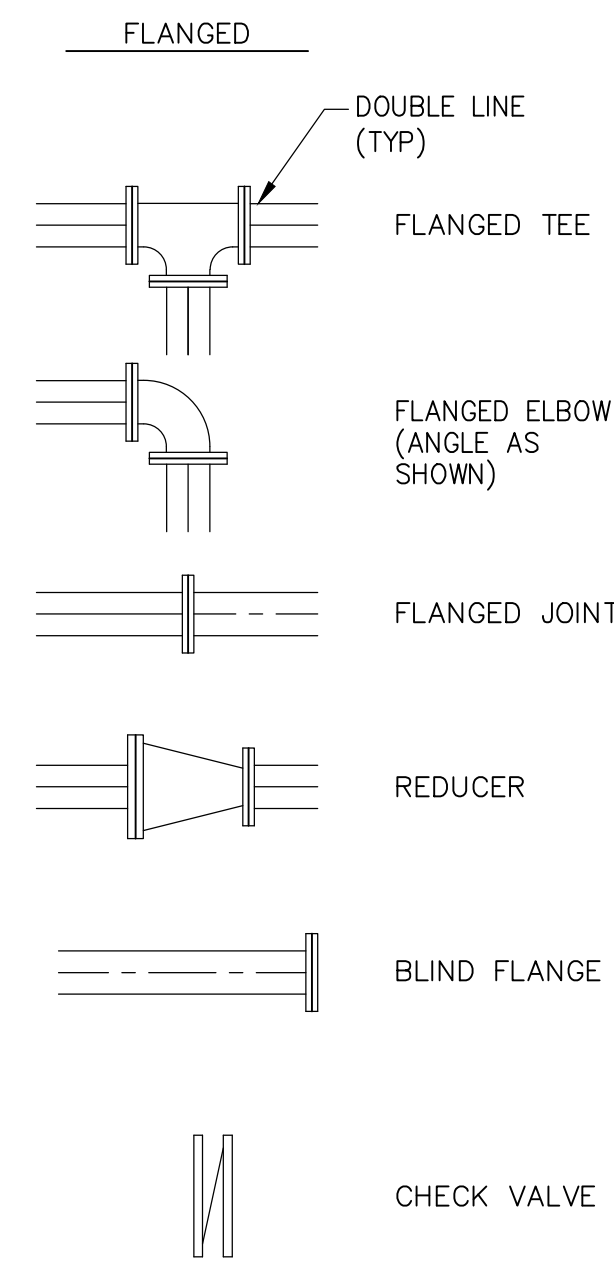
CONSTRUCTION NOTES

SHEET NO.
C-2
 OF 15 SHTS
 DRAWING NO.
 AR/WO/PLP:
 7367 / 7368

SYMBOLS AND LEGEND



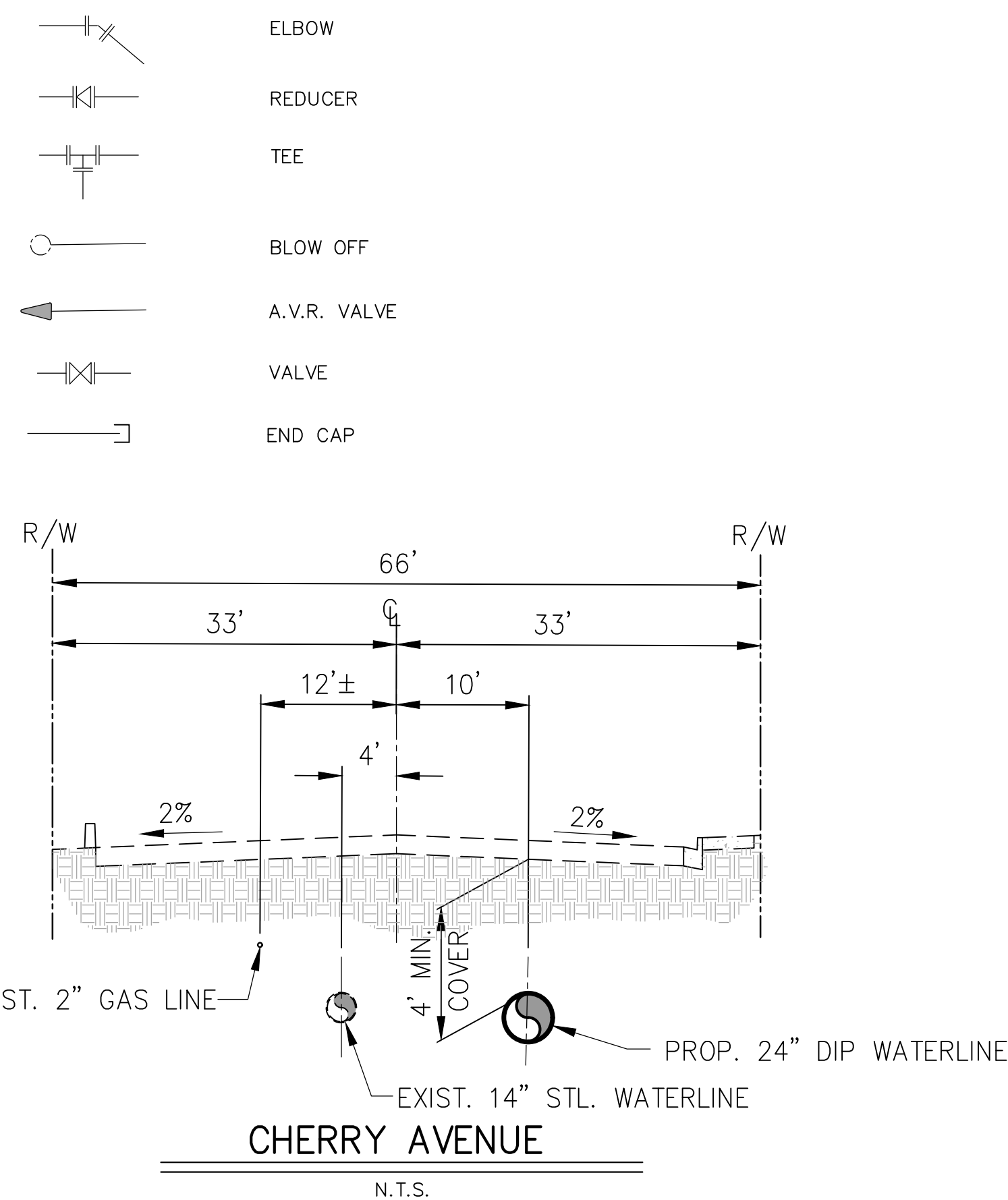
SITE PIPING SYMBOLS



ABBREVIATIONS AND NOTATIONS

A/C	AIR CONDITIONER	G	GAS	PSI	POUNDS PER SQUARE INCH
A.C., AC	ASPHALT CONCRETE	GA.	GAUGE	R	RADIUS
AV	AIR VALVE	GB	GRADE BREAK	RC, R.C.	RELATIVE COMPACTION
BFV	BUTTERFLY VALVE	HDPE	HIGH DENSITY POLYETHYLENE	RCTD	RIVERSIDE COUNTY TRANSPORTATION DEPT.
BOT	BOTTOM	HP	HIGH POINT	RCFCWD	RIVERSIDE COUNTY FLOOD CONTROL & WATER DISTRICT
BC	BEGINNING CURVE	HWL	HIGH WATER LEVEL	RDG	RIDGE
CG	CENTER GRADE	ID, I.D.	INSIDE DIAMETER	REQ.	REQUIRED, REQUIREMENTS
CL, CL	CENTERLINE	INV.	INVERT ELEVATION	R/W	RIGHT OF WAY
CL EL	CENTERLINE ELEVATION	KSI	KILOPOUNDS PER SQUARE INCH	SCH, SCHED	SCHEDULE
CLR.	CLEAR, CLEARANCE	LF	LINEAR FEET	SPEC	BOUND SPECIFICATIONS
CMB	CRUSHED MISCELLANEOUS BASE	LLWL	LOW LOW WATER LEVEL	SQ.	SQUARE
CMU	CONCRETE MASONRY UNIT	LWL	LOW WATER LEVEL	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION)
CONC.	CONCRETE	MAX.	MAXIMUM	STA.	STATION
CONT.	CONTINUOUS	MGD	MILLION GALLONS PER DAY	ST. STL, S.S.	STAINLESS STEEL
DIA.	DIAMETER	MH	MANHOLE	STD DWG	STANDARD DRAWING-- REFER TO BOUND SPECIFICATION
DWG.	DRAWING	MIN.	MINIMUM	T&B	TOP AND BOTTOM
E.#	EAST COORDINATE	MISC.	MISCELLANEOUS	TB	TOP OF BERM ELEVATION
EC	END CURVE	N.#	NORTH COORDINATE	TC	TOP OF CURB ELEVATION
EG	EXISTING GRADE ELEVATION	N/A	NOT APPLICABLE, NOT AVAILABLE	TEL.	TELEPHONE
EL	ELEVATION	N.I.C.	NOT IN CONTRACT	TF	TOP OF FOOTING ELEVATION
EP	EDGE OF PAVING	No.	NUMBER	TG	TOP OF GRATE ELEVATION, TOP OF GRATING
EQ.	EQUAL, EQUALLY	N.T.S.	NOT TO SCALE	THK.	THICK, THICKNESS
E.W.	EACH WAY	O.C.	ON CENTER	T.O.P.	TOP OF PIPE ELEVATION
EXIST, (E)	EXISTING	OD, O.D.	OUTSIDE DIAMETER	TW	TOP OF WALL ELEVATION
FF, FIN, FLR	FINISH FLOOR ELEVATION	OH	OPPOSITE HAND	TYP, TYP.	TYPICAL
FG	FINISH GRADE ELEVATION	OHE	OVERHEAD ELECTRICAL	USCS	UNIFIED SOIL CLASSIFICATION SYSTEM
FL, FL	FLOW LINE ELEVATION	PL, PL	PROPERTY LINE	UNO, U.N.O.	UNLESS NOTED OTHERWISE
FLG'D	FLANGE, FLANGED	PP	POWER POLE	W	WATER
FS	FINISH SURFACE ELEVATION			W/	WITH
FTG	FOOTING			WT.	WEIGHT
FUT.	FUTURE CONSTRUCTION				
Fy	YIELD STRENGTH OF STEEL				

TRANSMISSION MAIN SYMBOLS



ABBREVIATIONS FOR PIPE MATERIALS

ABS	ACRYLONITRILE BUTADIENE STYRENE	ECTFE	ETHYLENE-CHLOROTRIFLUOROETHYLENE
AGS	ADVANCED GROOVE SYSTEM	FRP	FIBERGLASS REINFORCED PLASTIC
BSP	BLACK STEEL PIPE	GIP	GALVANIZED IRON PIPE (STD.WT.)
BFV	BUTTERFLY VALVE	HDG	HOT DIPPED GALVANIZED (SCH.40 STEEL UNO)
CCP	CONCRETE CYLINDER PIPE	HDPE	HIGH DENSITY POLYETHYLENE
CIP	CAST IRON PIPE	PTFE	POLYTETRAFLUOROETHYLENE
CISP	CAST IRON SOIL PIPE	PVC	POLYVINYL CHLORIDE
CMC	CEMENT MORTAR COATED	PVDF	POLYVINYLIDENE FLUORIDE
CML	CEMENT MORTAR LINED	RCP	REINFORCED CONCRETE PIPE
CMLC, CML&C	WELDED STEEL PIPE CEMENT MORTAR LINED AND COATED	RSGV	RESILIENT SEAT GATE VALVE
CML&TC	WELDED STEEL PIPE CEMENT MORTAR LINED, TAPE WRAPPED, AND CEMENT MORTAR COATED	SCS	SEAMLESS CARBON STEEL
CMP	CORRUGATED METAL PIPE	SS, ST. STL.	STAINLESS STEEL (SCH.40 UNO)
CPVC	CHLORINATED POLYVINYL CHLORIDE	STD.WT.	STANDARD WEIGHT
CT	CYLINDER THICKNESS	STL	STEEL
DI	DUCTILE IRON	VCP	VITRIFIED CLAY PIPE (EXTRA-STRENGTH)
DIP	DUCTILE IRON PIPE	WSP	WELDED STEEL PIPE
		1/4"CT	WSP WITH 1/4" STEEL CYLINDER THICKNESS

Z:\705500.DWG NOBLE II TANK PLANS\C-3 LEGENDS AND ABB.DWG PLOT DATE: 2/17/2022

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JOB NO.	1705500
DESIGNED	R.L.V. / D.V.
DRAWN	D.V. / C.H.
CHECKED	B.FOX
APPROVED	
REG. NO.	

REV	DATE	DESCRIPTION	BY

BENCHMARK	SEE SHEET 1
SCALE	AS SHOWN

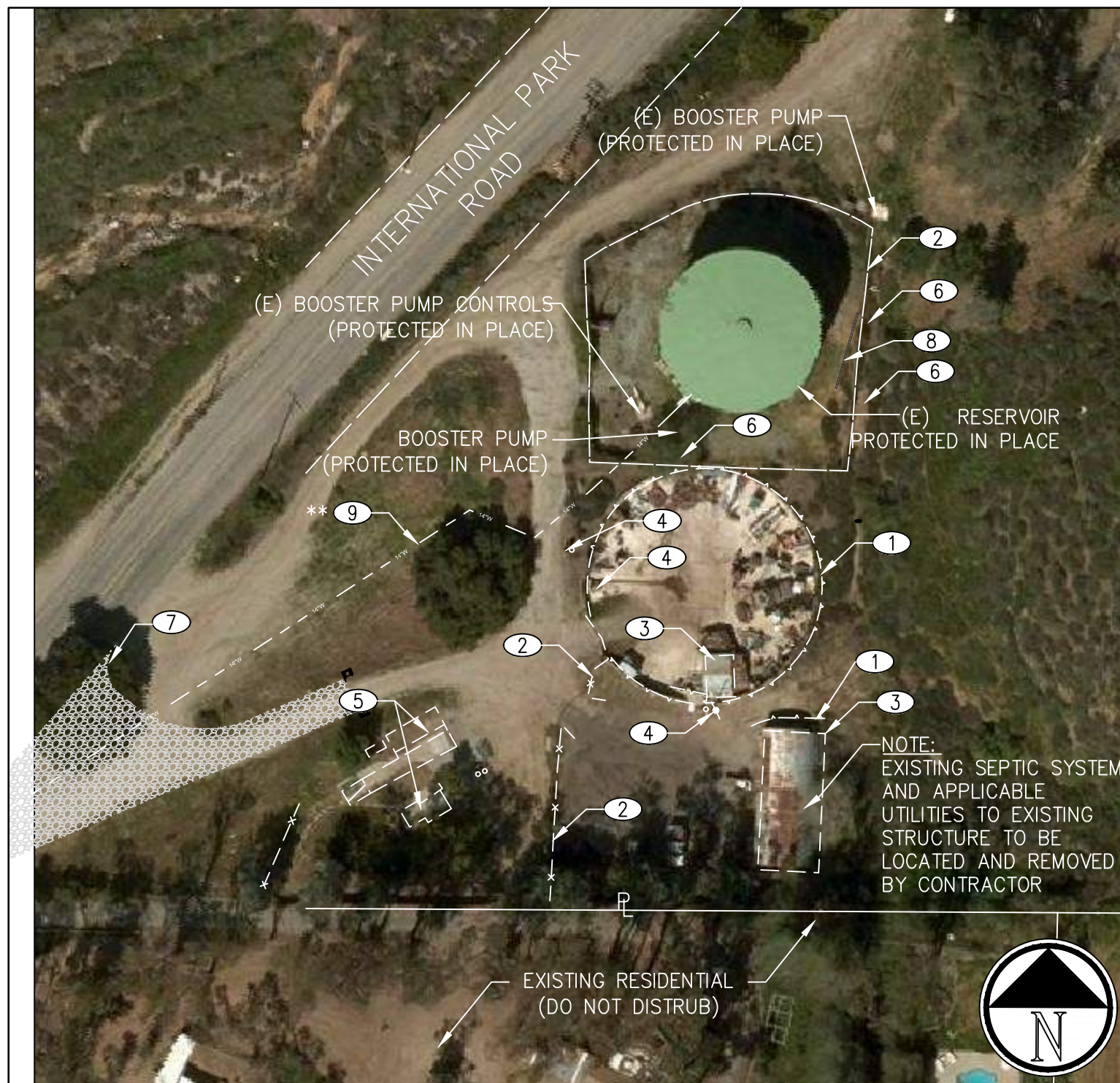
BEAUMONT-CHERRY VALLEY WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA

DISTRICT ENGINEER _____ R.C.E. NO. _____ DATE _____

NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

LEGENDS, SYMBOLS, AND ABBREVIATIONS

SHEET NO.	C-3
OF 15 SHTS	
DRAWING NO.	
AR/WO/PLP:	7367 / 7368



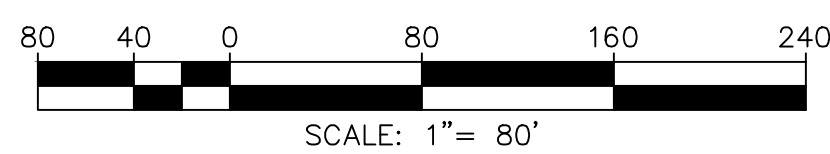
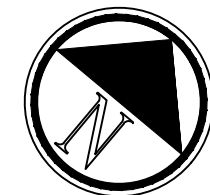
DEMOLITION PLAN
N.T.S.

DEMOLITION NOTES	
1	EXISTING TANK RING & FOUNDATION TO BE REMOVED
2	EXISTING CHAINLINK FENCE TO BE REMOVED
3	EXISTING STRUCTURE TO BE REMOVED
4	EXISTING MISC. APPURTENANCE TO BE REMOVED
5	EXISTING MISC. RV FACILITIES TO BE REMOVED
6	EXISTING TREE TO BE REMOVED
7	EXISTING TREE PROTECT IN PLACE
8	EXISTING WALL TO BE REMOVED
9	EXISTING 14" STEEL WATERLINE -- REMOVE AS REQUIRED SEE **NOTE BELOW

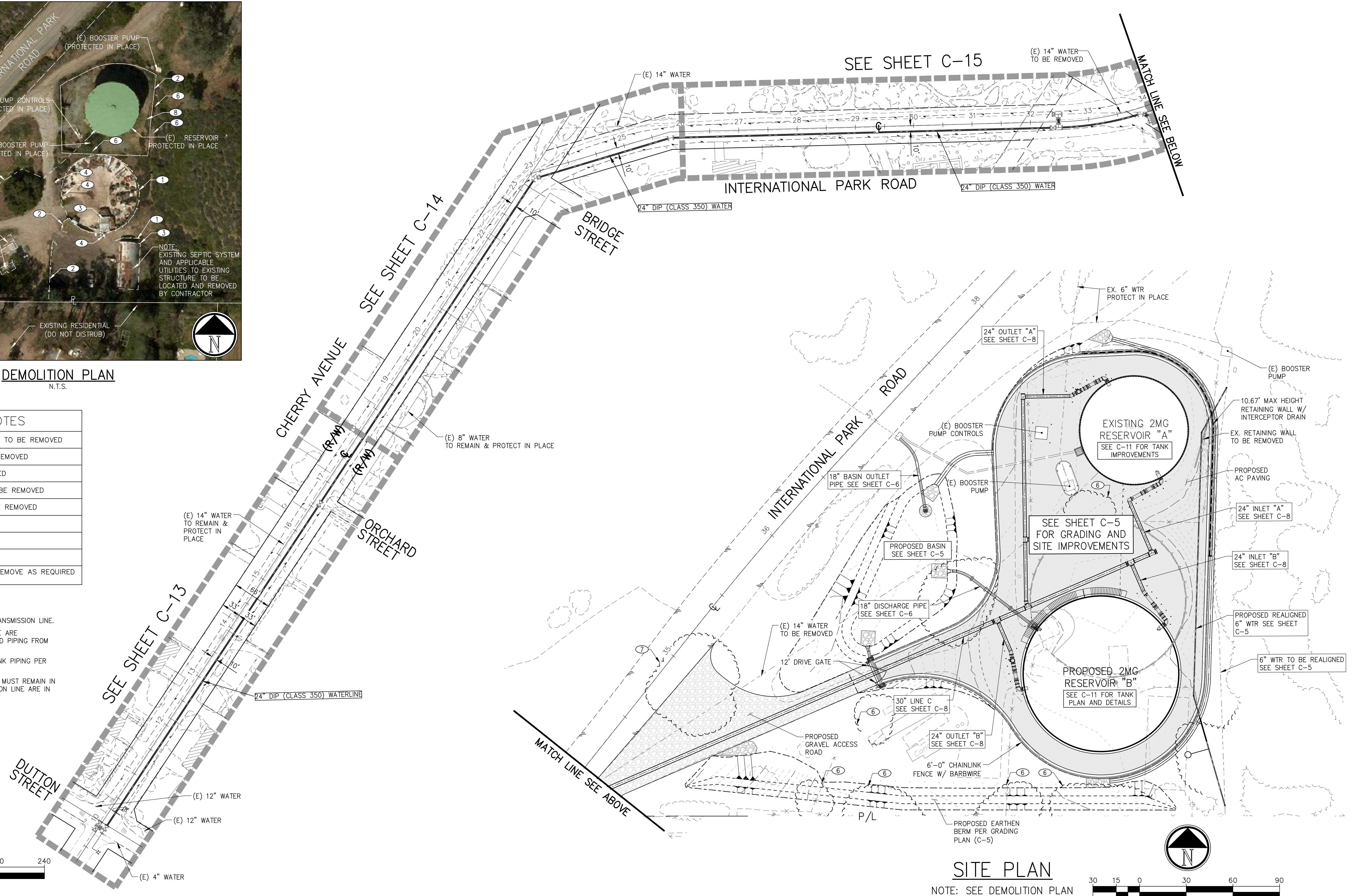
SEQUENCE OF WORK

1. CONSTRUCT NEW 2MG RESERVOIR AND TRANSMISSION LINE.
2. AFTER NEW TANK AND TRANSMISSION LINE ARE OPERATIONAL, REMOVE EXISTING TANK AND PIPING FROM SERVICE.
3. REMOVE AND RE-CONFIGURE EXISTING TANK PIPING PER APPROVED PLAN.

**NOTE: 14" STEEL WATERLINE TO BE REMOVED MUST REMAIN IN OPERATION UNTIL NEW TANK AND TRANSMISSION LINE ARE IN SERVICE.

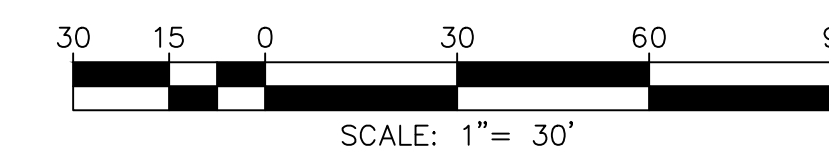


NOTE: ALL DISTANCES ARE HORIZONTAL MEASUREMENTS. CONTRACTOR TO VERIFY ALL QUANTITIES



SITE PLAN

NOTE: SEE DEMOLITION PLAN AT TOP LEFT



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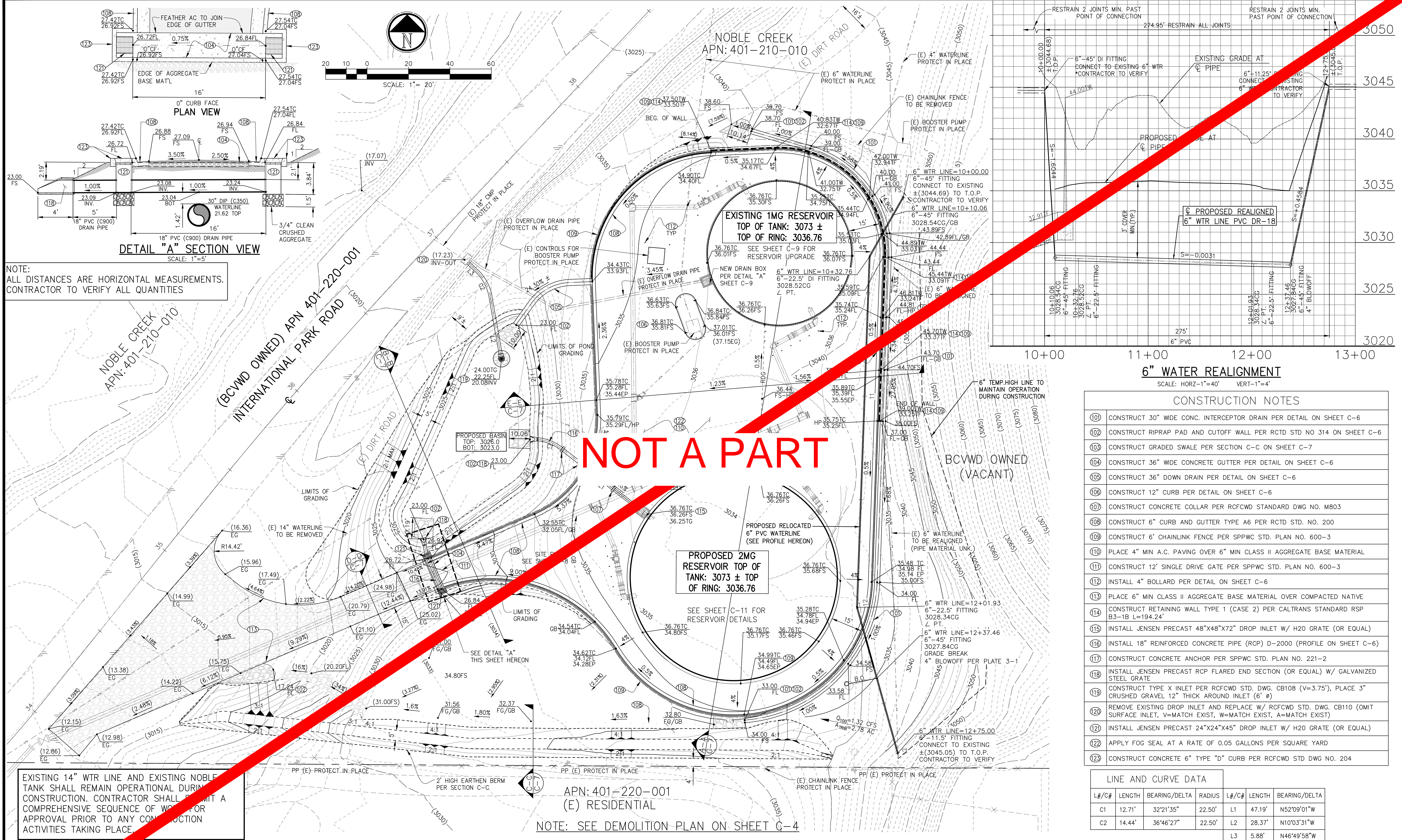
BENCHMARK	SEE SHEET 1
SCALE	AS SHOWN
DISTRICT ENGINEER	
R.C.E. NO.	
DATE	

BEAUMONT-CHERRY VALLEY WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA

NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

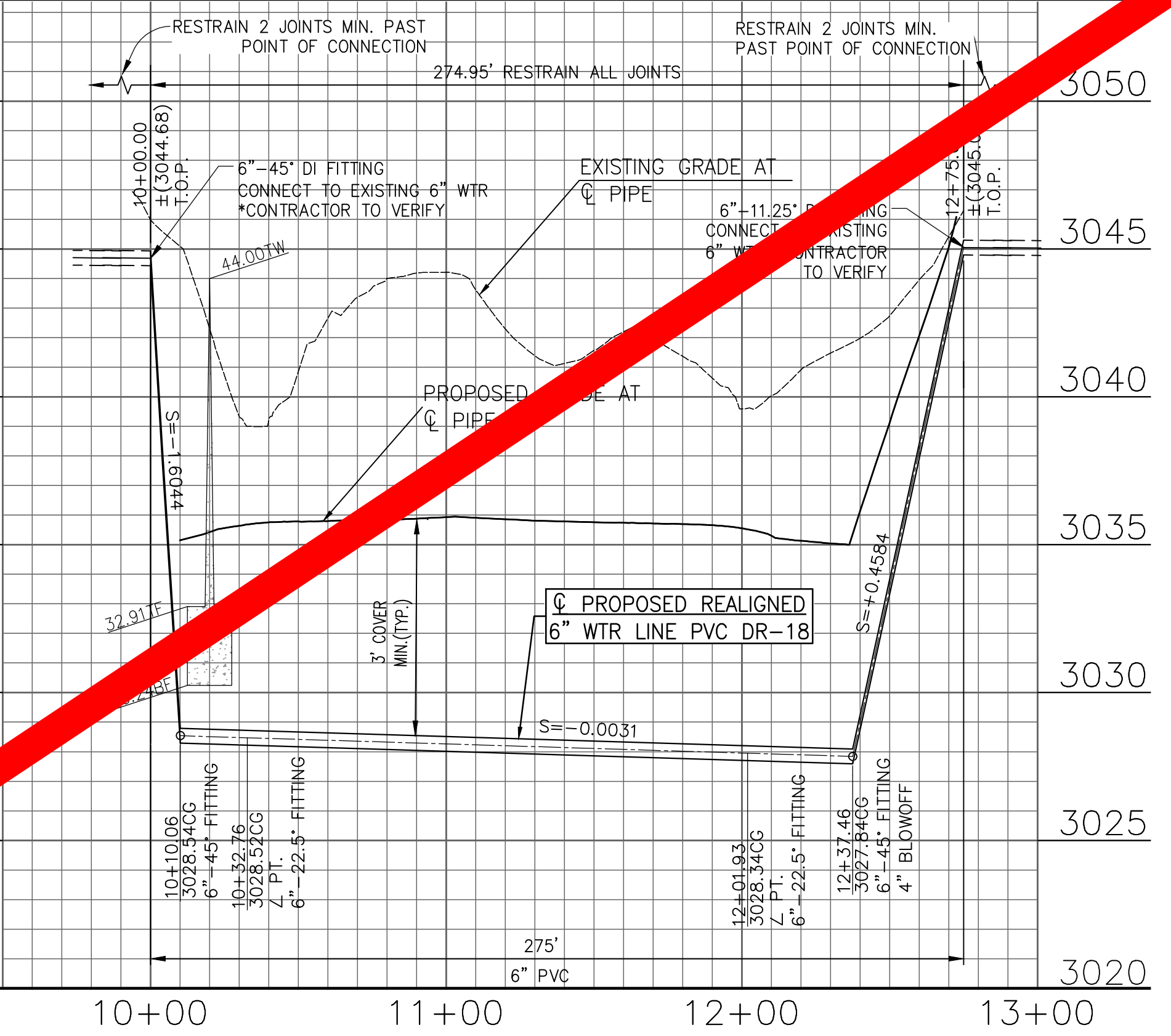
INDEX MAP & SITE PLAN

SHEET NO. **C-4**
OF 15 SHTS
DRAWING NO.
AR/WO/PLP: 7367 / 7368



NOTE:
ALL DISTANCES ARE HORIZONTAL MEASUREMENTS.
CONTRACTOR TO VERIFY ALL QUANTITIES

EXISTING 14" WTR LINE AND EXISTING NOBLE CREEK TANK SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL SUBMIT A COMPREHENSIVE SEQUENCE OF WORK FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE.



6" WATER REALIGNMENT
SCALE: HORZ-1"=40' VERT-1"=4'

CONSTRUCTION NOTES

101	CONSTRUCT 30" WIDE CONC. INTERCEPTOR DRAIN PER DETAIL ON SHEET C-6
102	CONSTRUCT RIPRAP PAD AND CUTOFF WALL PER RCTD STD NO 314 ON SHEET C-6
103	CONSTRUCT GRADED SWALE PER SECTION C-C ON SHEET C-7
104	CONSTRUCT 36" WIDE CONCRETE GUTTER PER DETAIL ON SHEET C-6
105	CONSTRUCT 36" DOWN DRAIN PER DETAIL ON SHEET C-6
106	CONSTRUCT 12" CURB PER DETAIL ON SHEET C-6
107	CONSTRUCT CONCRETE COLLAR PER RCFCD STANDARD DWG NO. M803
108	CONSTRUCT 6" CURB AND GUTTER TYPE A6 PER RCTD STD. NO. 200
109	CONSTRUCT 6' CHAINLINK FENCE PER SPPWC STD. PLAN NO. 600-3
110	PLACE 4" MIN A.C. PAVING OVER 6" MIN CLASS II AGGREGATE BASE MATERIAL
111	CONSTRUCT 12" SINGLE DRIVE GATE PER SPPWC STD. PLAN NO. 600-3
112	INSTALL 4" BOLLARD PER DETAIL ON SHEET C-6
113	PLACE 6" MIN CLASS II AGGREGATE BASE MATERIAL OVER COMPACTED NATIVE
114	CONSTRUCT RETAINING WALL TYPE 1 (CASE 2) PER CALTRANS STANDARD RSP B3-1B L=194.24'
115	INSTALL JENSEN PRECAST 48"x48"x72" DROP INLET W/ H2O GRATE (OR EQUAL)
116	INSTALL 18" REINFORCED CONCRETE PIPE (RCP) D-2000 (PROFILE ON SHEET C-6)
117	CONSTRUCT CONCRETE ANCHOR PER SPPWC STD. PLAN NO. 221-2
118	INSTALL JENSEN PRECAST RCP FLARED END SECTION (OR EQUAL) W/ GALVANIZED STEEL GRATE
119	CONSTRUCT TYPE X INLET PER RCFCD STD. DWG. CB108 (V=3.75'), PLACE 3" CRUSHED GRAVEL 12" THICK AROUND INLET (6" Ø)
120	REMOVE EXISTING DROP INLET AND REPLACE W/ RCFCD STD. DWG. CB110 (OMIT SURFACE INLET, V=MATCH EXIST, W=MATCH EXIST, A=MATCH EXIST)
121	INSTALL JENSEN PRECAST 24"x24"x45" DROP INLET W/ H2O GRATE (OR EQUAL)
122	APPLY FOG SEAL AT A RATE OF 0.05 GALLONS PER SQUARE YARD
123	CONSTRUCT CONCRETE 6" TYPE "D" CURB PER RCFCD STD DWG NO. 204

LINE AND CURVE DATA

L# / C#	LENGTH	BEARING / DELTA	RADIUS	L# / C#	LENGTH	BEARING / DELTA
C1	12.71'	32°21'35"	22.50'	L1	47.19'	N52°09'01"W
C2	14.44'	36°46'27"	22.50'	L2	28.37'	N10°03'31"W
				L3	5.88'	N46°49'58"W

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BENCHMARK

SEE SHEET 1

SCALE

AS SHOWN

REV	DATE	DESCRIPTION	BY

BEAUMONT-CHERRY VALLEY WATER
DISTRICT RIVERSIDE COUNTY, CALIFORNIA

DISTRICT ENGINEER

R.C.E. NO.

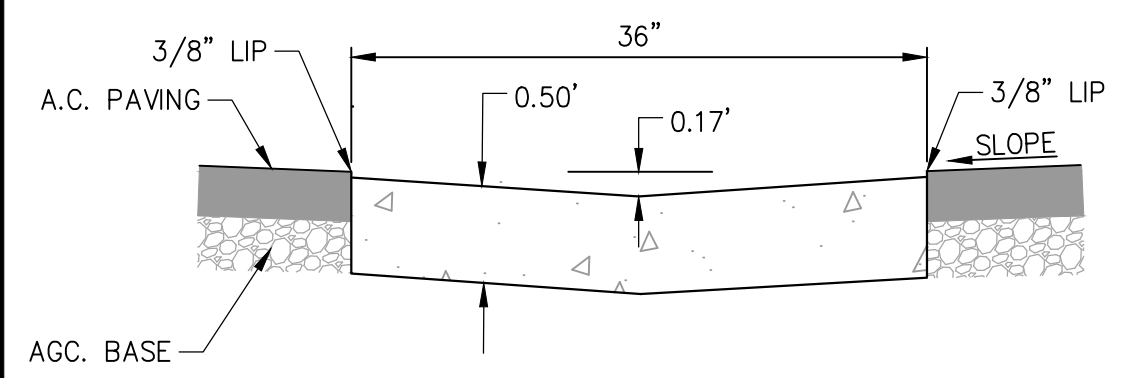
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NOBLE WATER STORAGE TANK II
AND TRANSMISSION PIPELINE

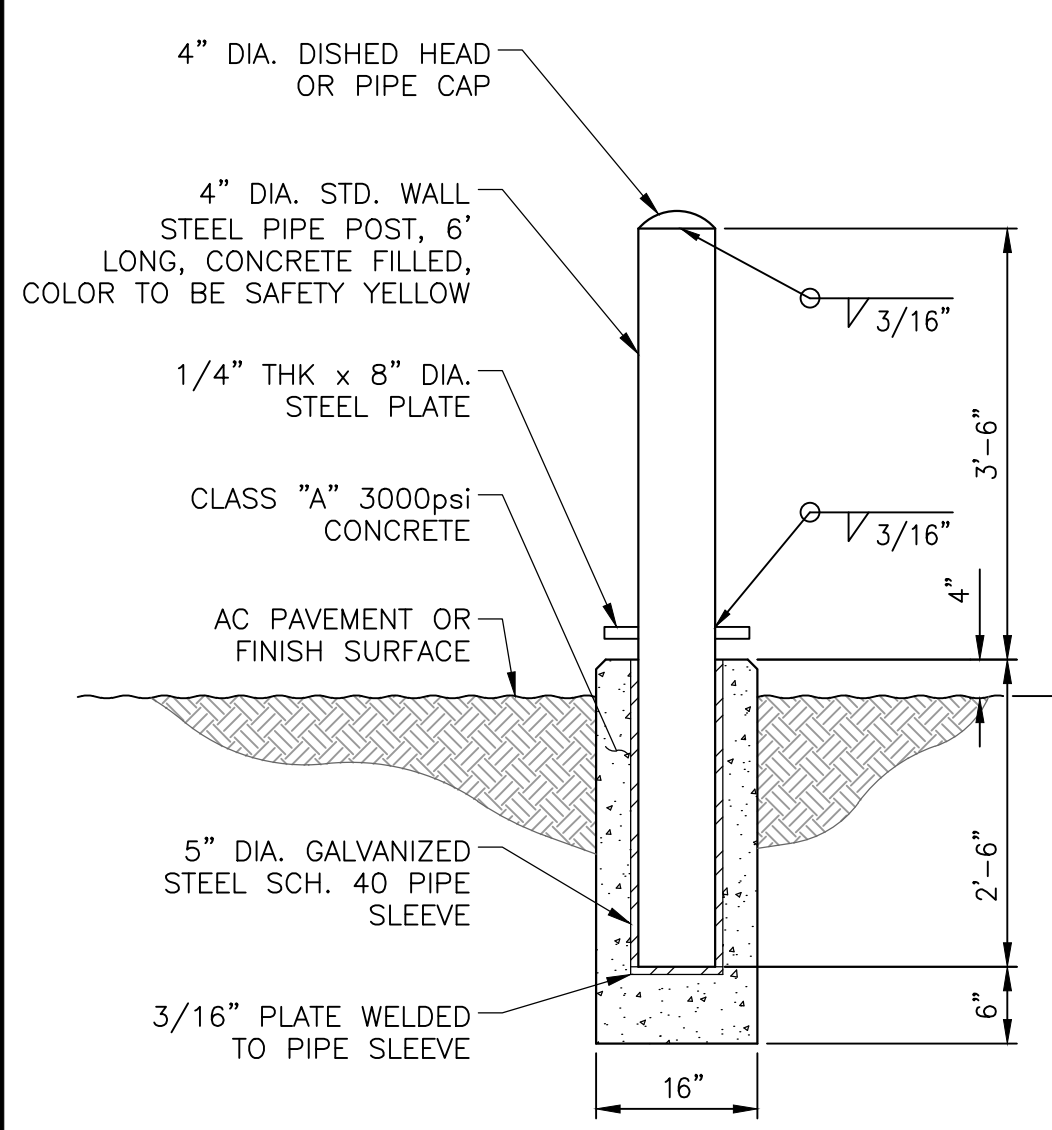
GRADING PLAN

SHEET NO.
C-5
OF 15 SHTS
DRAWING NO.

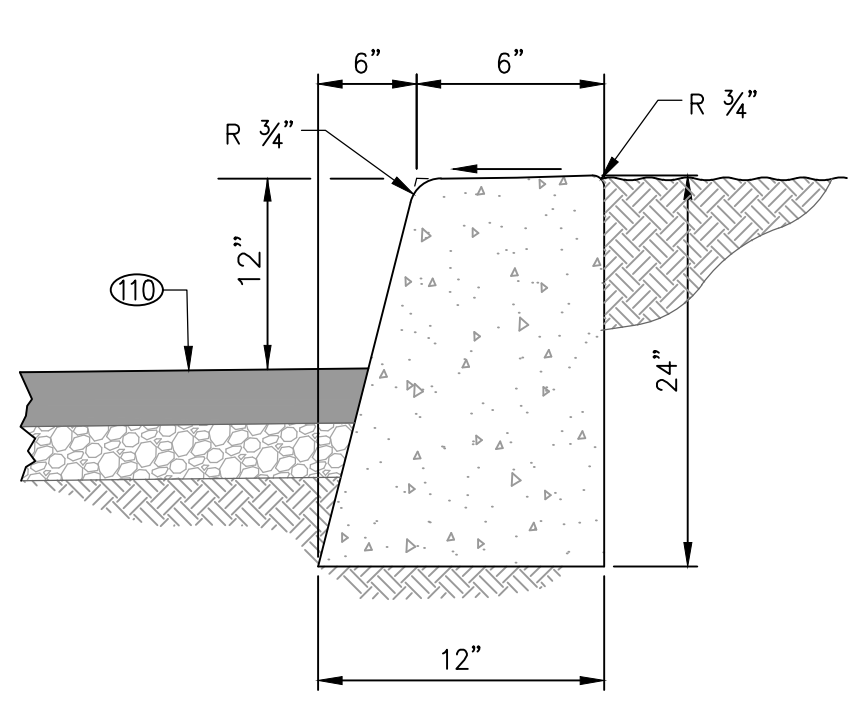
AR/WO/PLP:
7367 / 7368



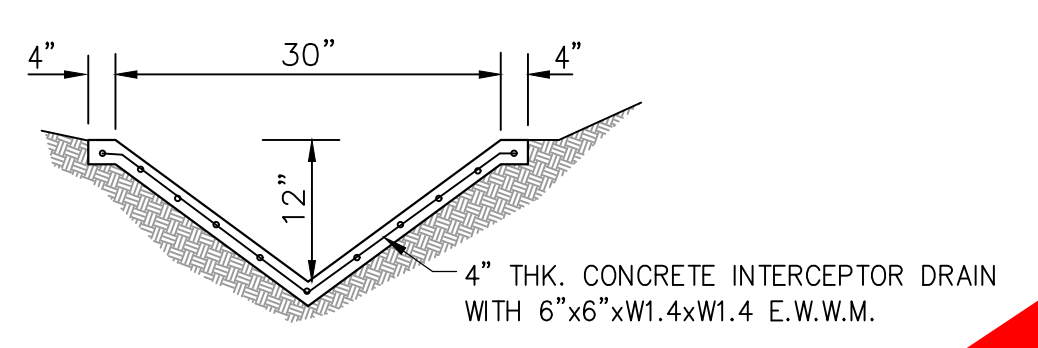
104 36" WIDE CONCRETE GUTTER
N.T.S.



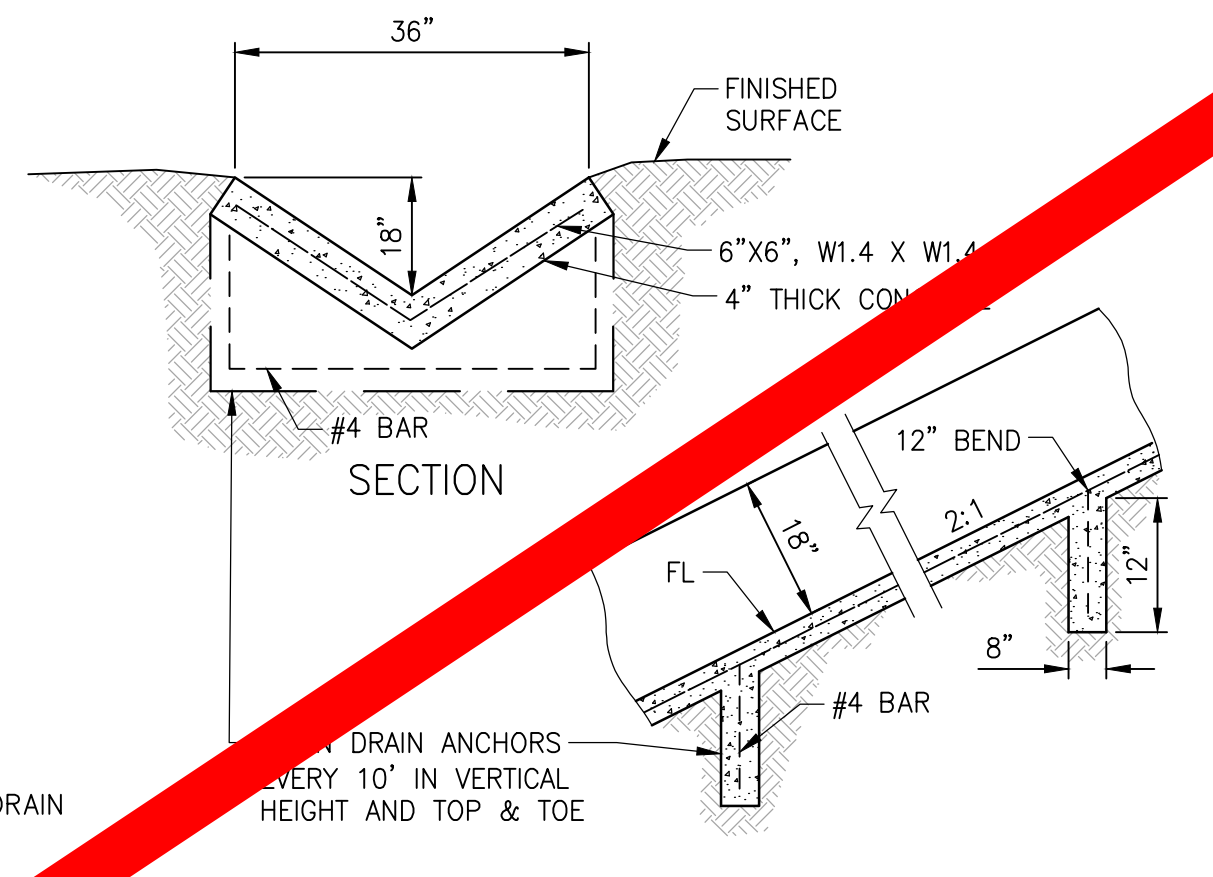
112 REMOVABLE PIPE BOLLARD DETAIL
N.T.S.



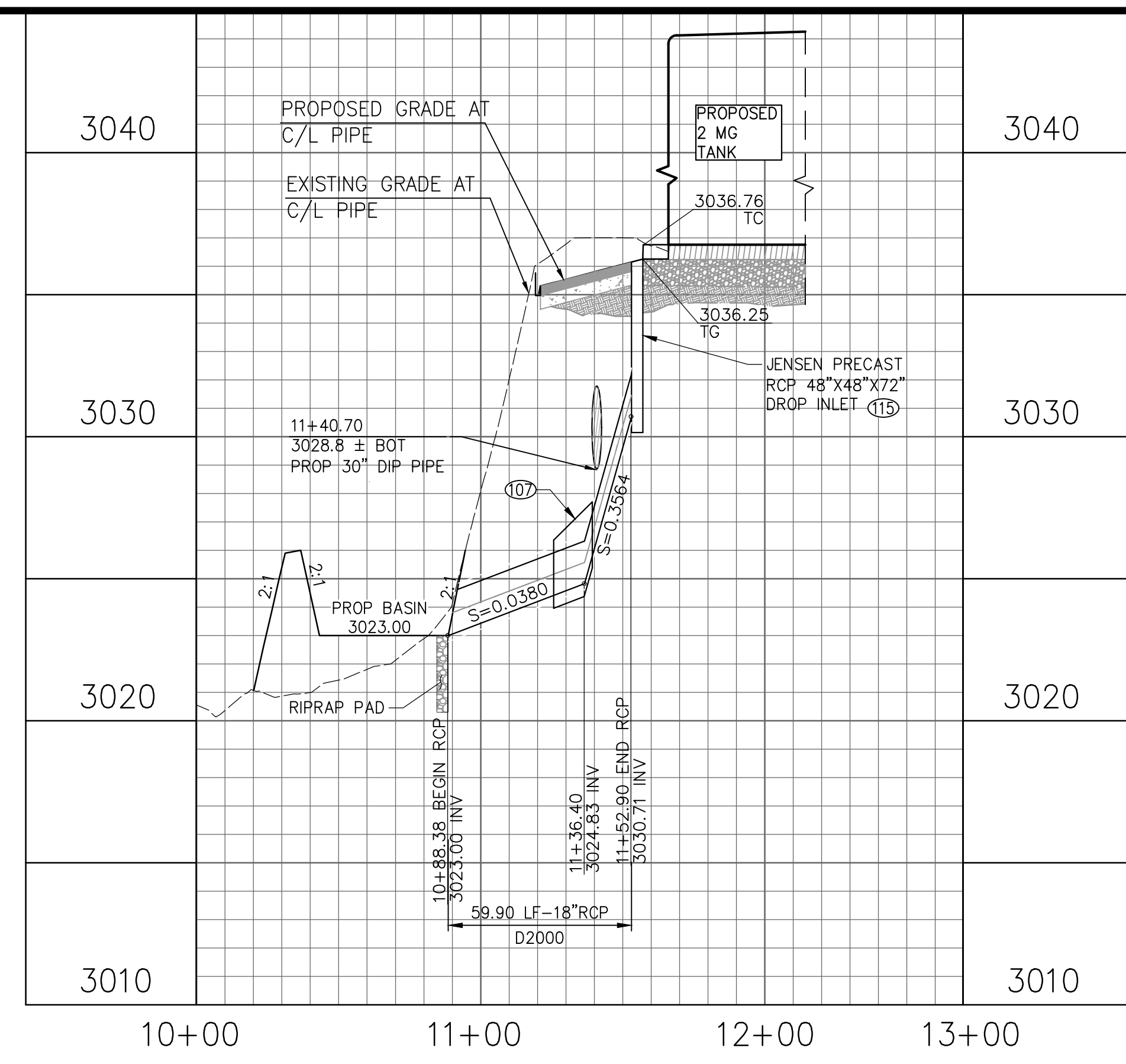
106 12" CURB
N.T.S.



101 30" WIDE CONC. INTERCEPTOR DRAIN
N.T.S.



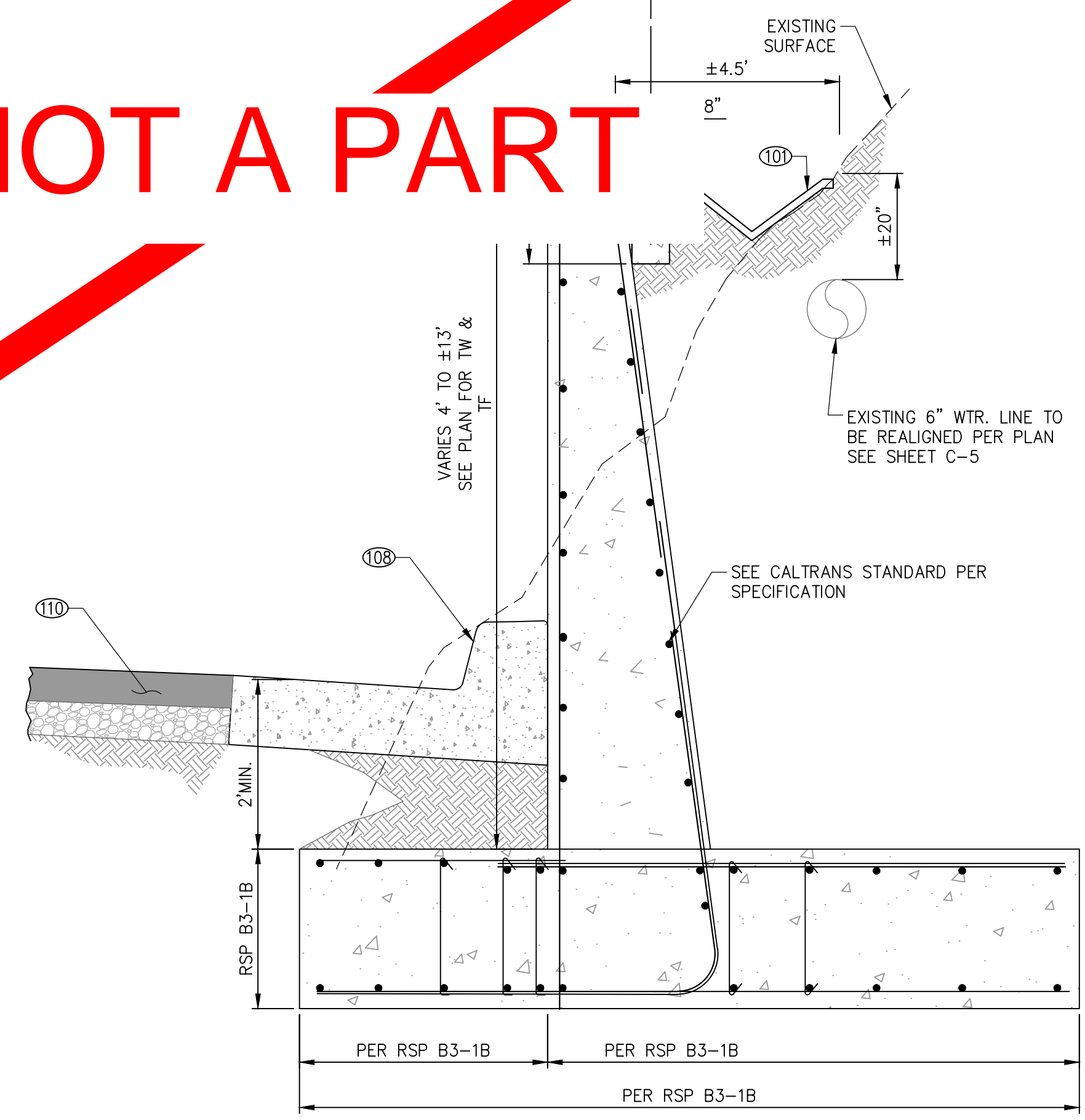
105 36" DOWN DRAIN DETAIL
N.T.S.



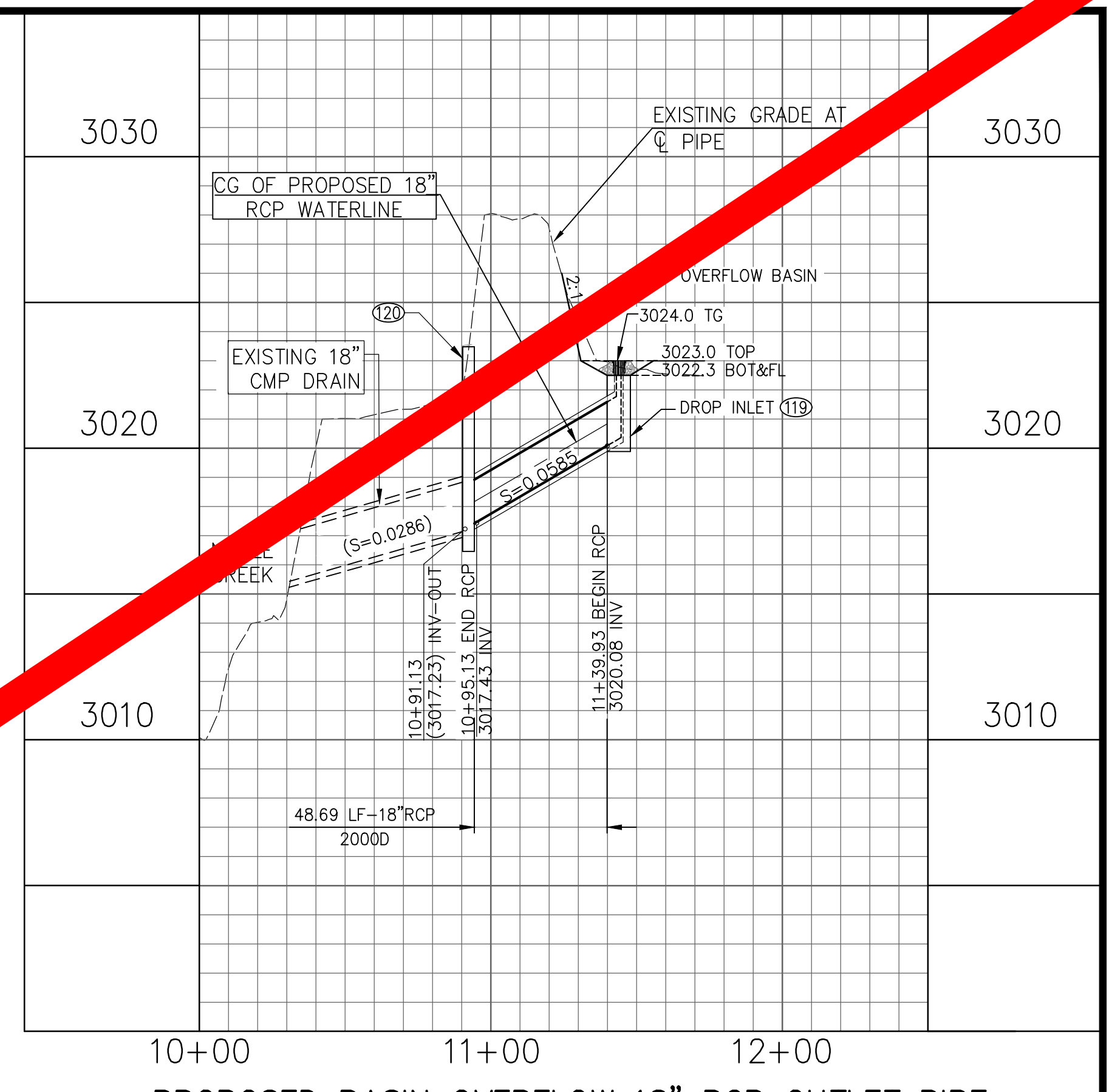
PROPOSED TANK OVERFLOW
18" RCP DISCHARGE PIPE
SCALE: HORIZ: 1" = 40'
VERT: 1" = 4'

CONSTRUCTION NOTES	
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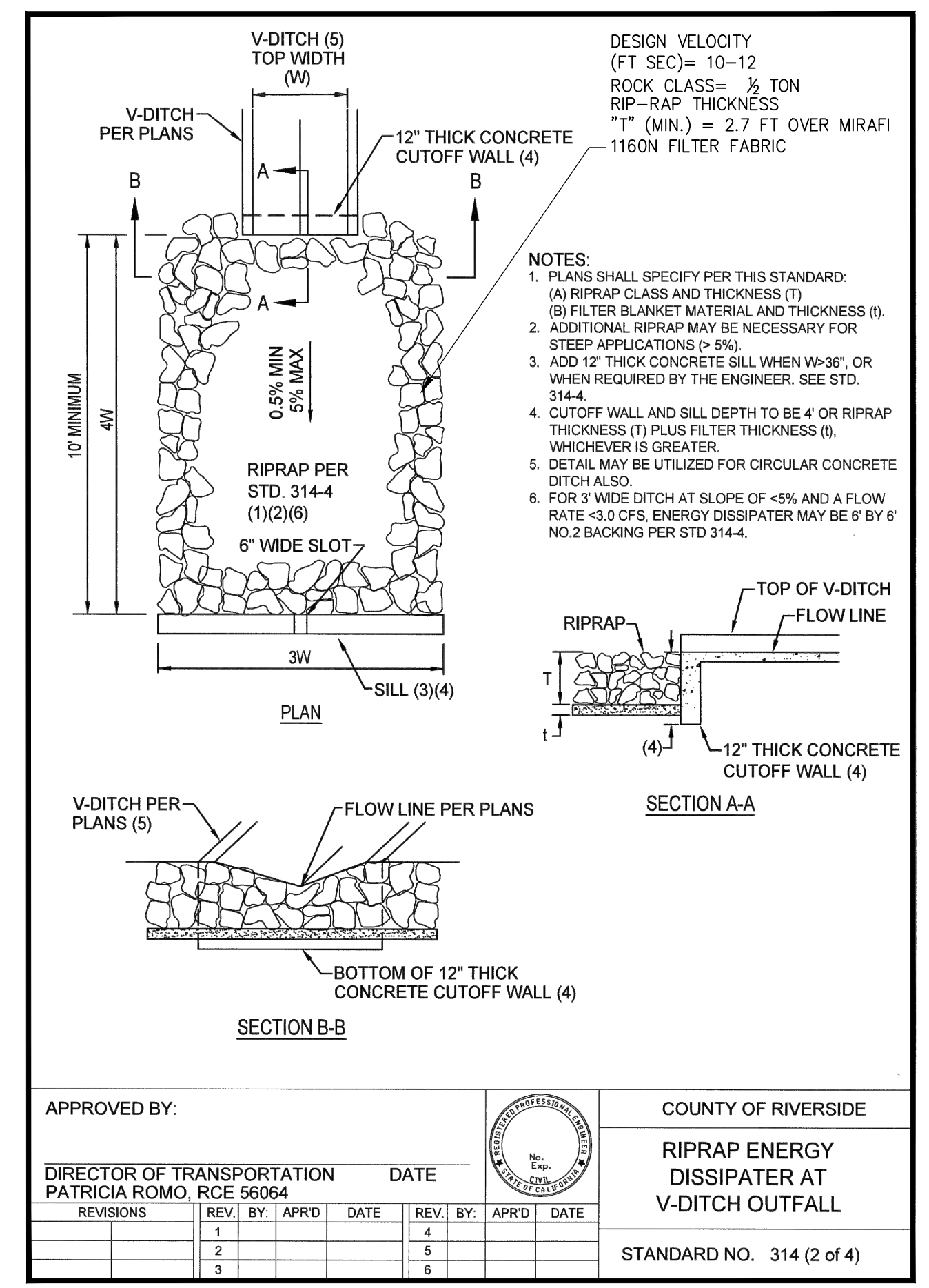
NOT A PART



114 RETAINING WALL TYPE 1 (CASE 2)
PER CALTRANS STANDARD RSP B3-1B
N.T.S.
(SIMILAR TO STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION 611-3)



PROPOSED BASIN OVERFLOW 18" RCP OUTLET PIPE
SCALE: HORIZ: 1" = 40'
VERT: 1" = 4'



102 RIPRAP PAD AND CUTOFF WALL
N.T.S.

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PREPARED BY: _____
DATE: _____

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DESIGNED	R.L.V. / D.V.
DRAWN	D.V. / C.H.
CHECKED	B.FOX
APPROVED	_____
REG. NO.	_____

BENCHMARK	SEE SHEET 1
SCALE	AS SHOWN
DATE	_____
DESCRIPTION	_____

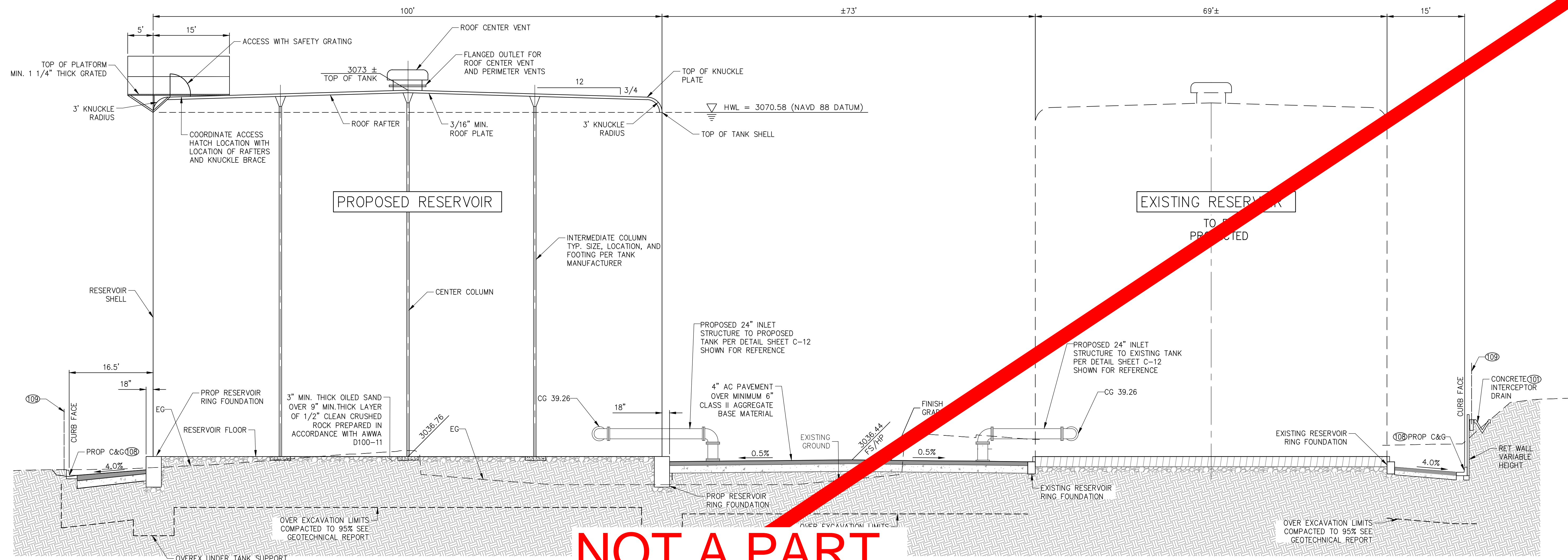
BEAUMONT-CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

DISTRICT ENGINEER _____ R.C.E. NO. _____ DATE _____

NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

DETAIL SHEET

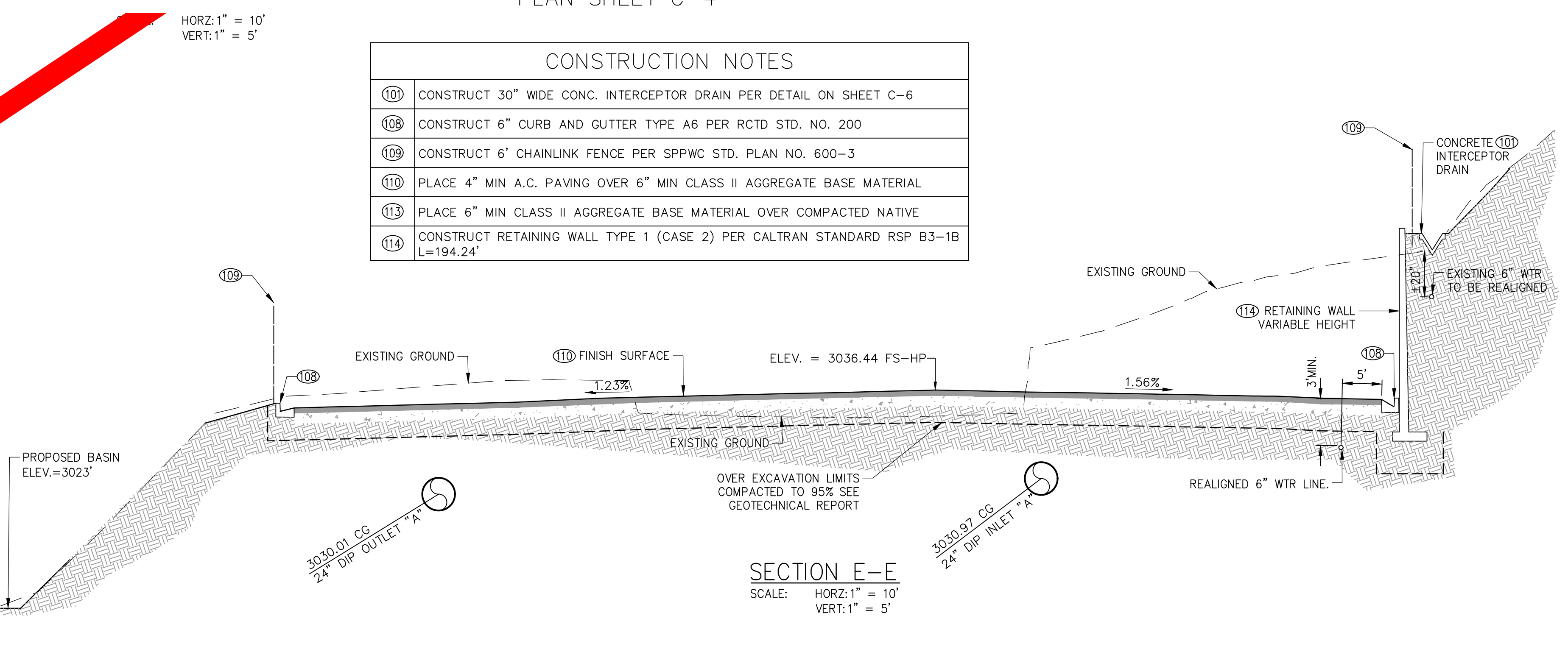
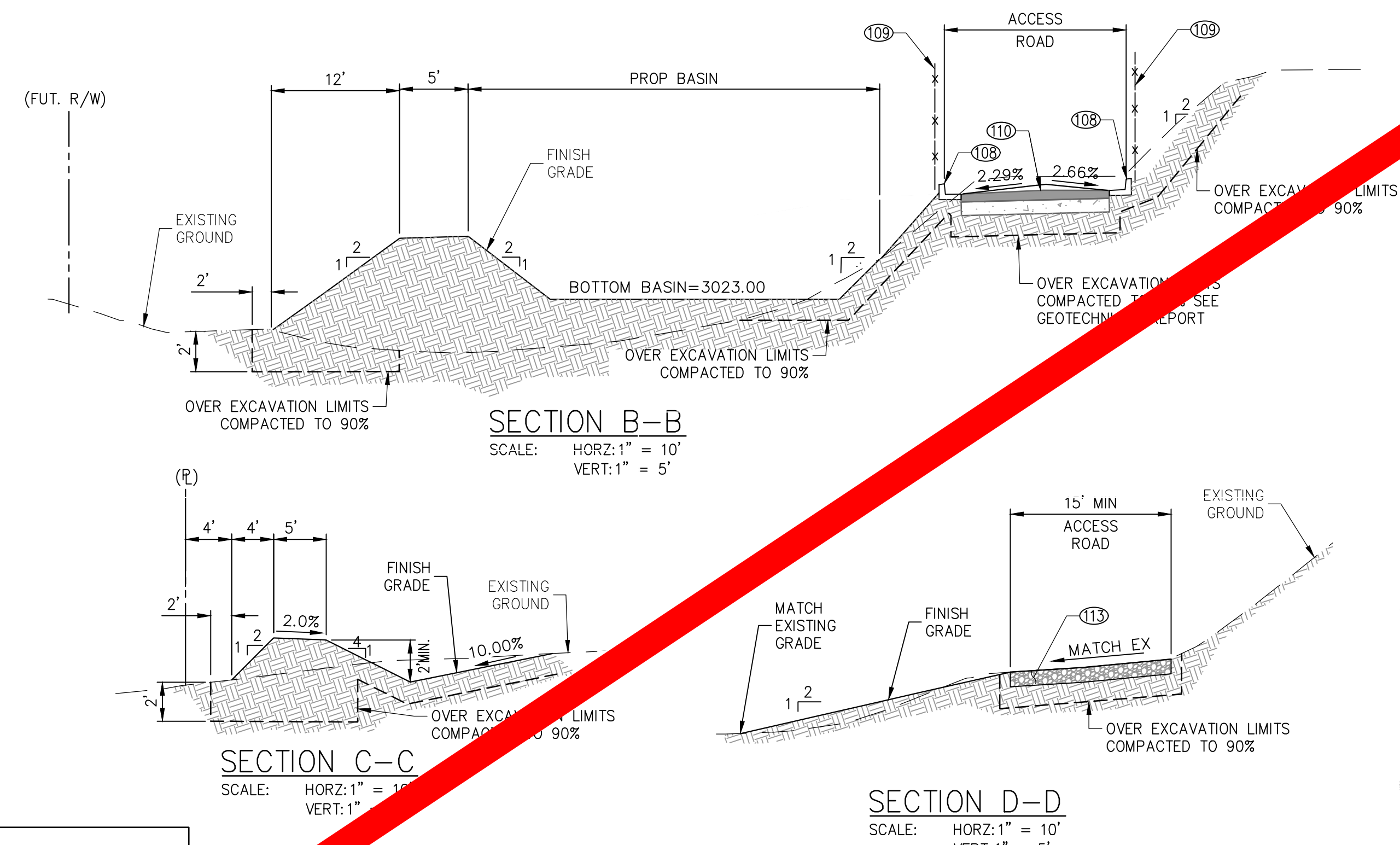
SHEET NO. C-6 OF 15 SHTS
DRAWING NO. _____
AR/WO/PLP: 7367 / 7368



NOT A PART

PLAN SHEET C-4

CONSTRUCTION NOTES	
101	CONSTRUCT 30" WIDE CONC. INTERCEPTOR DRAIN PER DETAIL ON SHEET C-6
108	CONSTRUCT 6" CURB AND GUTTER TYPE A6 PER RCTD STD. NO. 200
109	CONSTRUCT 6' CHAINLINK FENCE PER SPPWC STD. PLAN NO. 600-3
110	PLACE 4" MIN A.C. PAVING OVER 6" MIN CLASS II AGGREGATE BASE MATERIAL
113	PLACE 6" MIN CLASS II AGGREGATE BASE MATERIAL OVER COMPACTED NATIVE
114	CONSTRUCT RETAINING WALL TYPE 1 (CASE 2) PER CALTRAN STANDARD RSP B3-1B L=194.24'



NOTE:
ALL DISTANCES ARE HORIZONTAL MEASUREMENTS. CONTRACTOR TO VERIFY ALL QUANTITIES

Cozad & Fox
 STRUCTURAL ENGINEERS
 PRINCIPAL CONSULTANTS / PLANNERS
 SURVEYORS / GPS
 151 South Grand Street • Hemet, Ca 92544
 TEL. (951) 652-4454 • FAX (951) 766-8942
 E-MAIL bfox@cozad.com

PREPARED UNDER THE SUPERVISION OF:
 BRIAN D. FOX
 REGISTERED CIVIL ENGINEER NO. 57264



JOB NO.	1705500
DESIGNED	R.L.V. / D.V.
DRAWN	D.V. / C.H.
CHECKED	B.FOX
APPROVED	
REG. NO.	

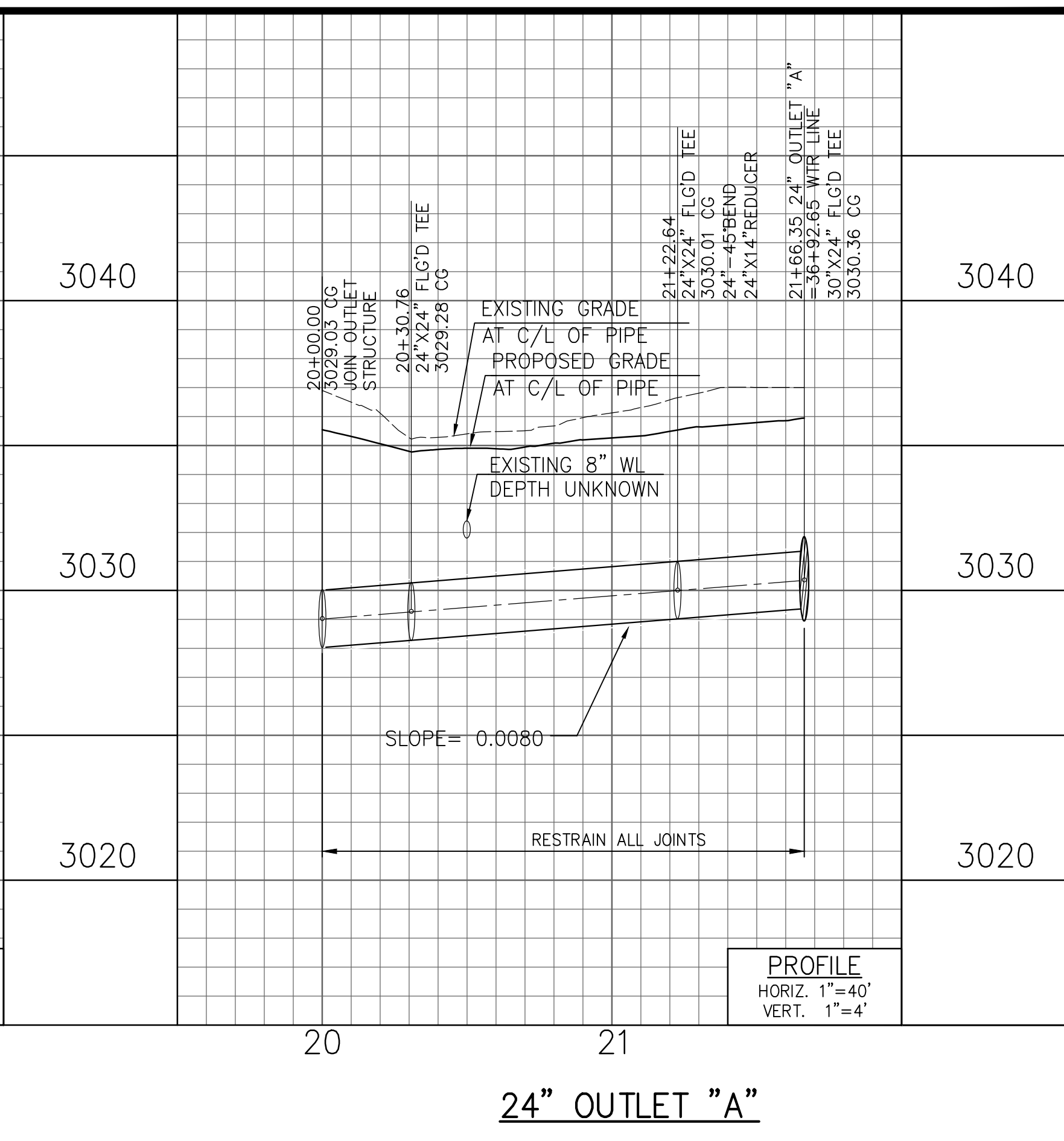
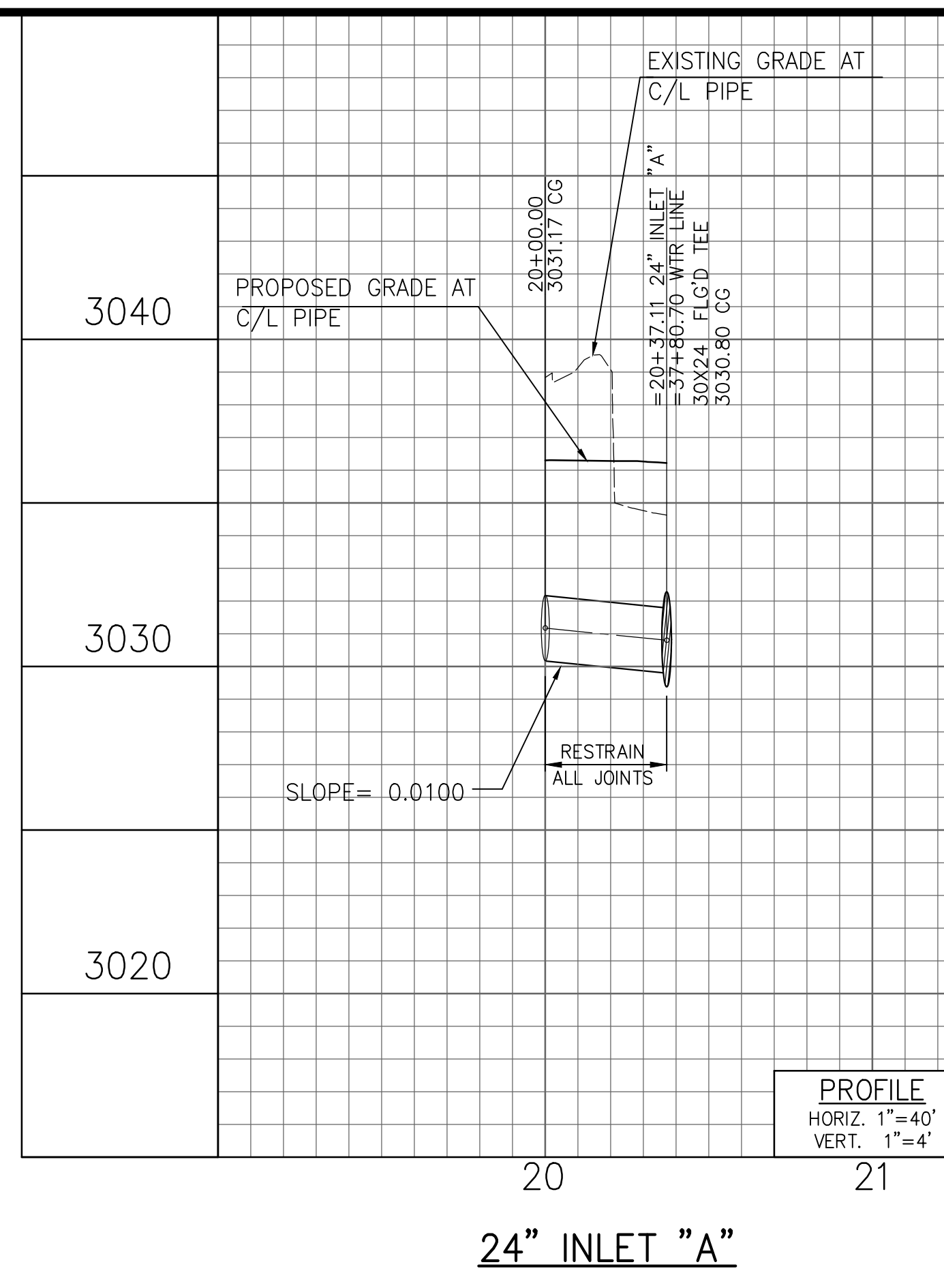
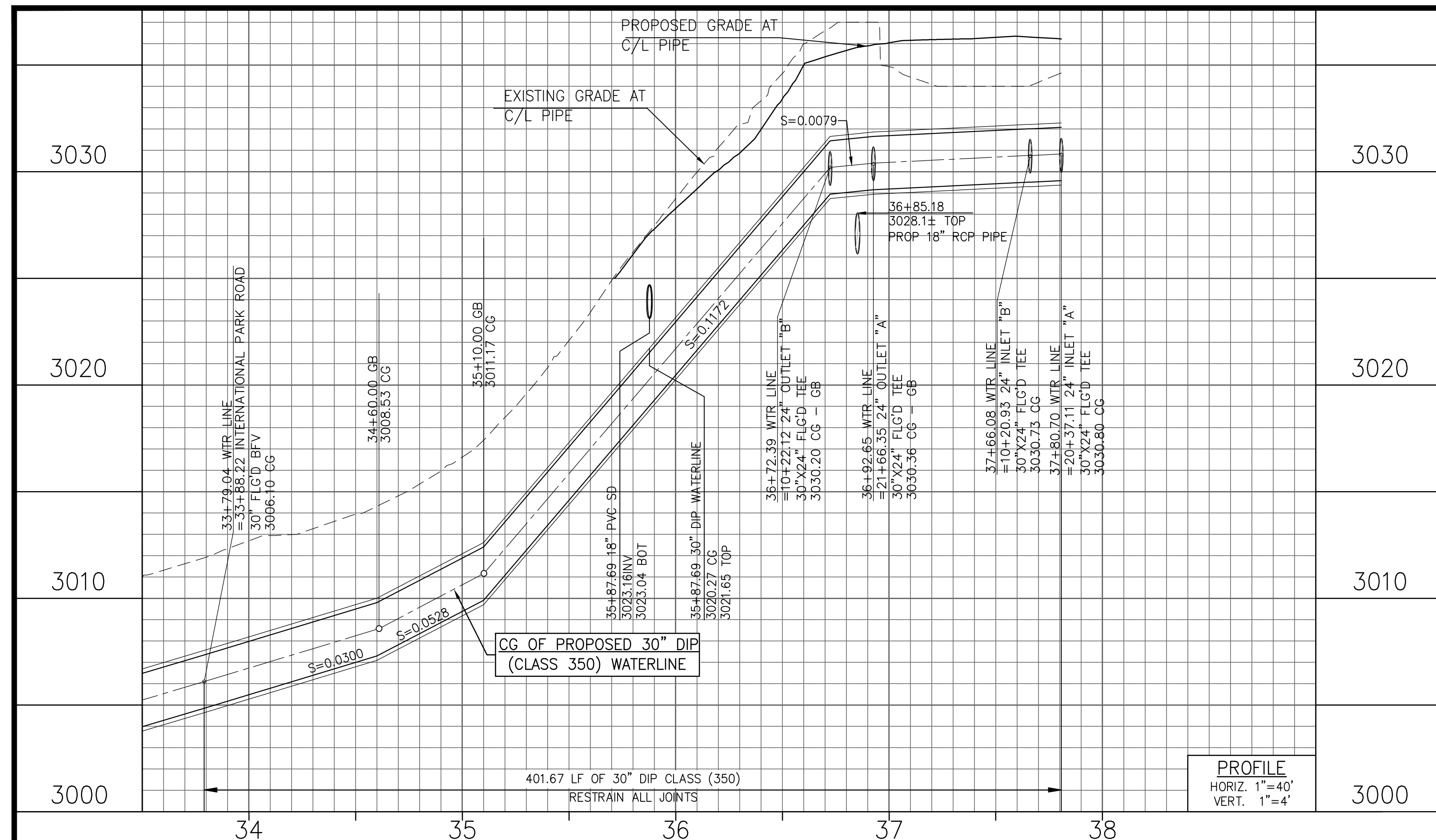
BENCHMARK	SEE SHEET 1
SCALE	AS SHOWN
DISTRICT ENGINEER	
R.C.E. NO.	
DATE	

BEAUMONT-CHERRY VALLEY WATER DISTRICT
 RIVERSIDE COUNTY, CALIFORNIA

NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

GRADING SECTIONS

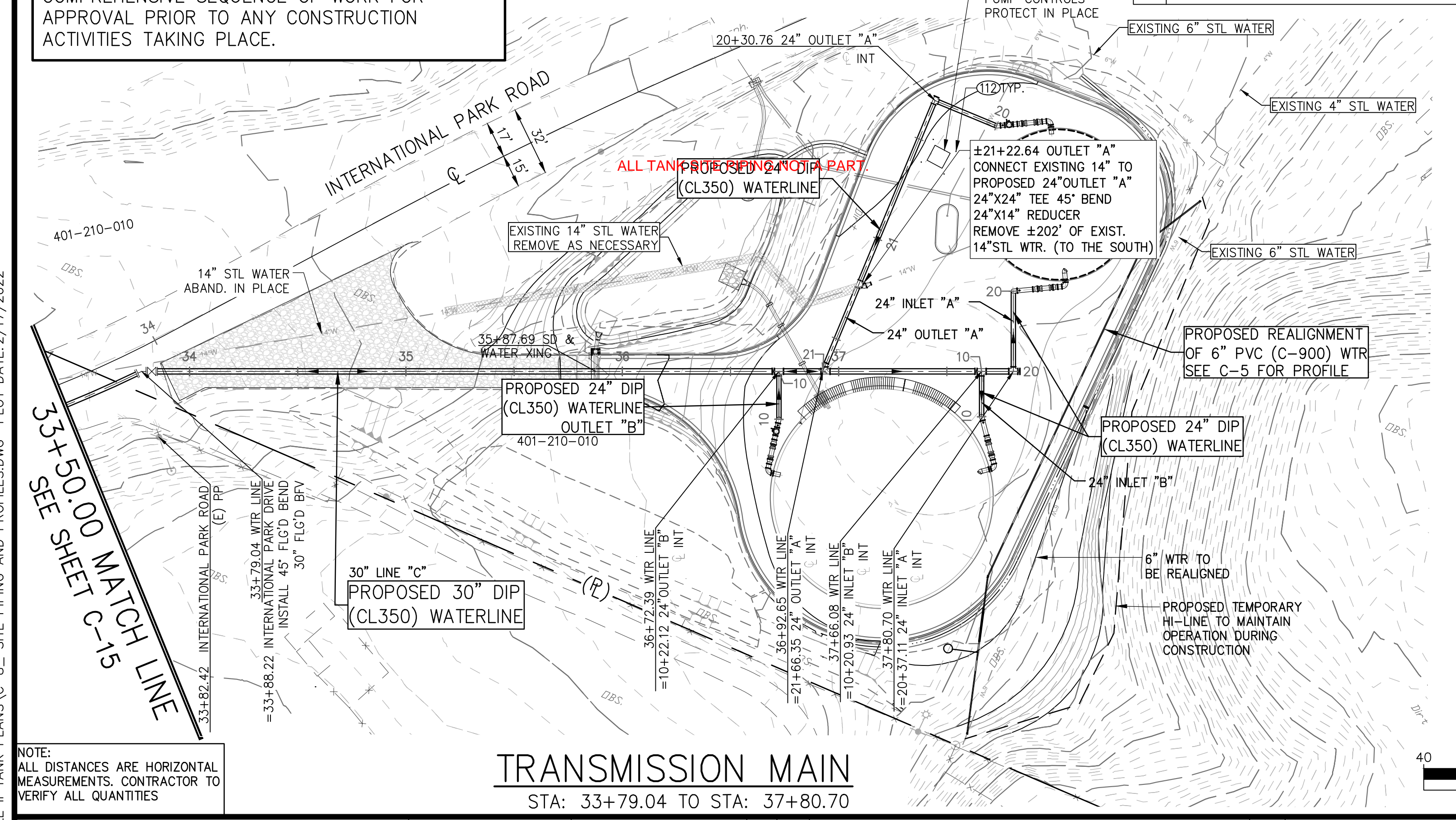
SHEET NO. **C-7**
 OF 15 SHTS
 DRAWING NO.
 AR/WO/PLP:
 7367 / 7368



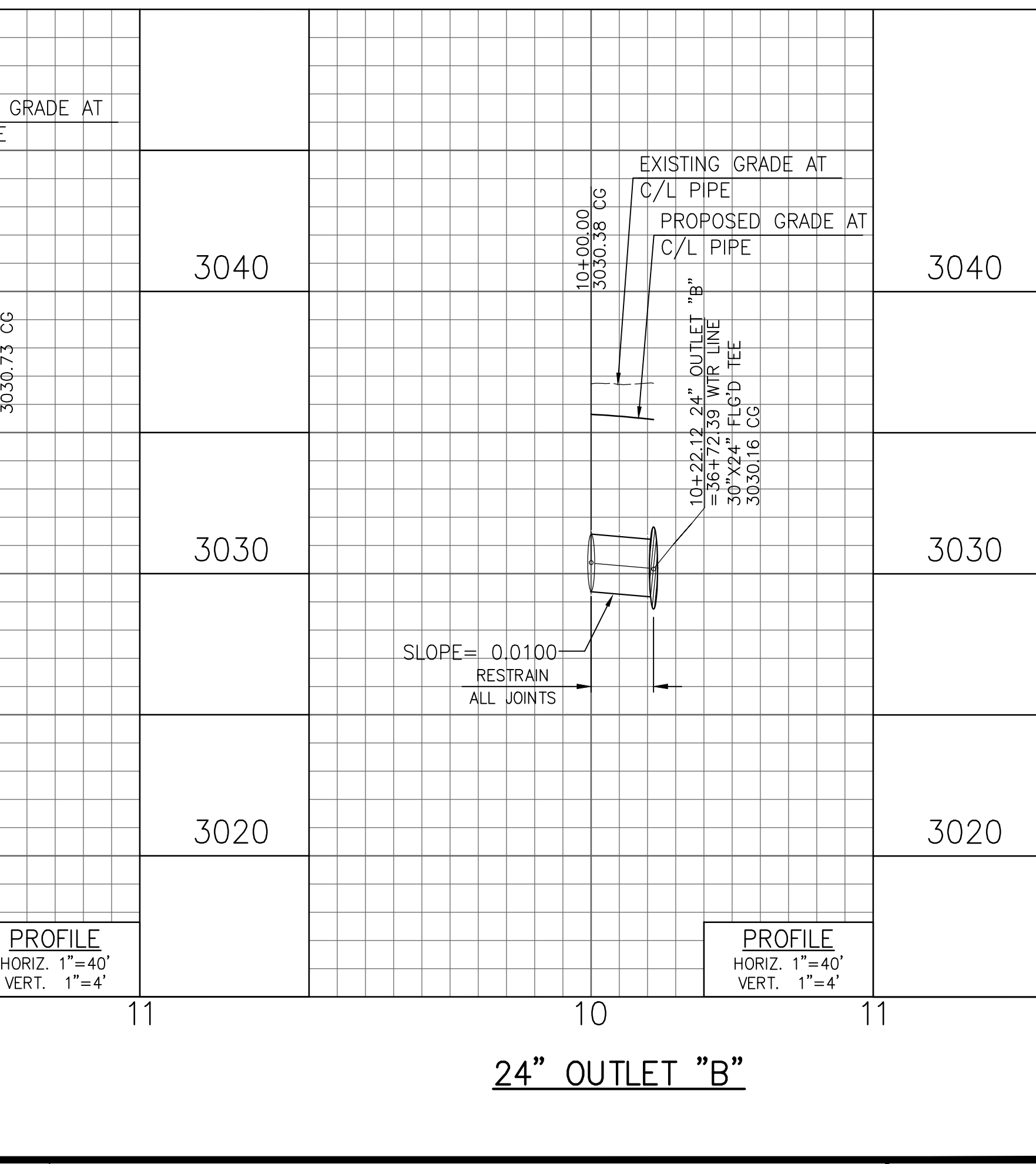
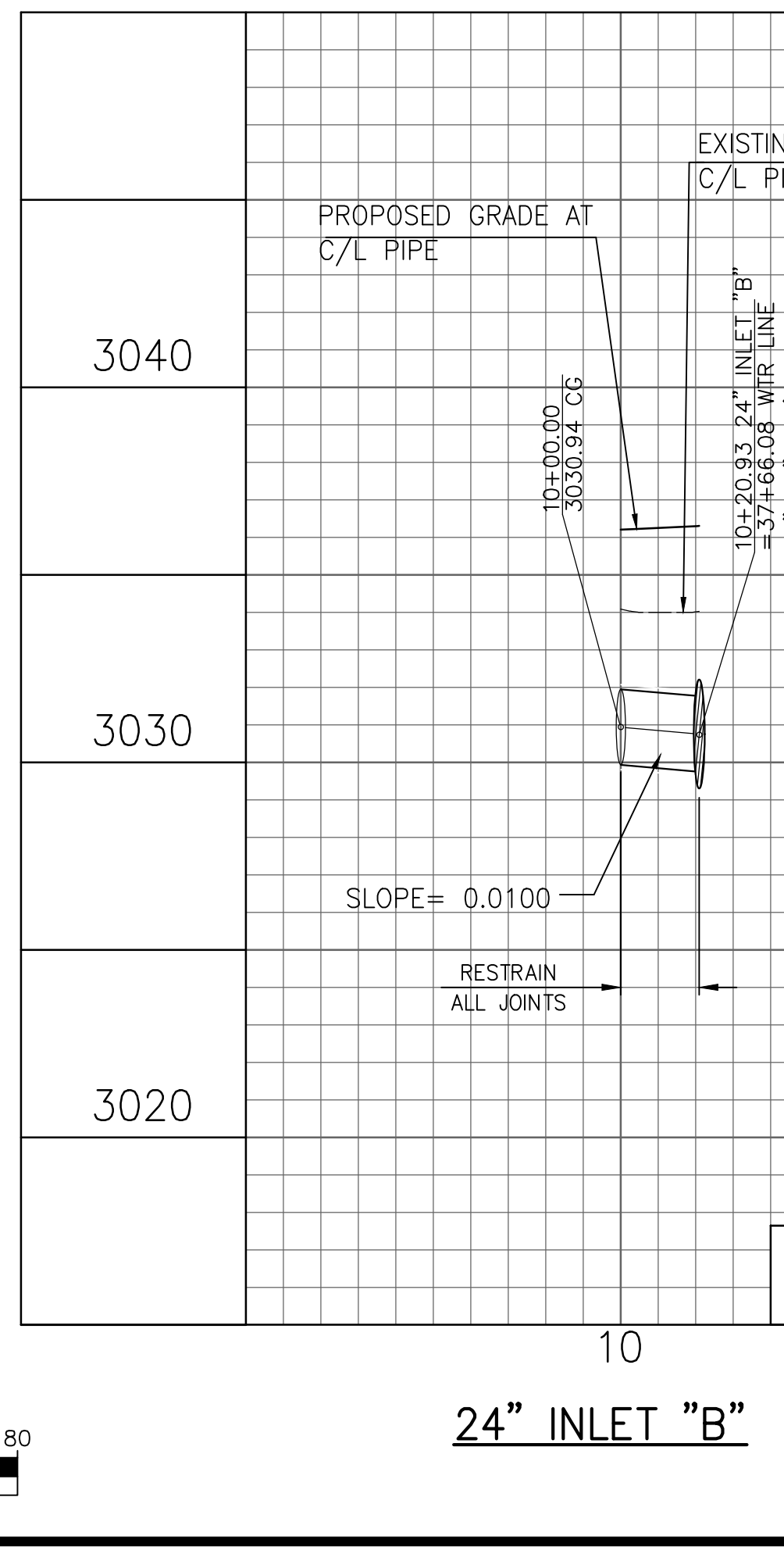
EXISTING 14" WATER LINE AND EXISTING NOBLE TANK SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL SUBMIT A COMPREHENSIVE SEQUENCE OF WORK FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITIES TAKING PLACE.

30" LINE "C"
STA: 33+79.04 TO STA: 37+80.70

CONSTRUCTION NOTES
⑫ INSTALL 4" BOLLARD PER DETAIL ON SHEET C-6



TRANSMISSION MAIN
STA: 33+79.04 TO STA: 37+80.70



Cozad & Fox, Inc.
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E-MAIL: bfox@cozadandfox.com

PREPARED UNDER THE SUPERVISION OF:
BRIAN D. FOX
REGISTERED CIVIL ENGINEER NO. 57264

REGISTERED PROFESSIONAL ENGINEER
BRIAN D. FOX
No. 57264
CIVIL
STATE OF CALIFORNIA

JOB NO.	1705500
DESIGNED	R.L.V. / D.V.
DRAWN	D.V. / C.H.
CHECKED	B.FOX
APPROVED	
REG. NO.	

REV	DATE	DESCRIPTION	BY

BENCHMARK	SEE SHEET 1
SCALE	AS SHOWN
DISTRICT ENGINEER	
R.C.E. NO.	
DATE	

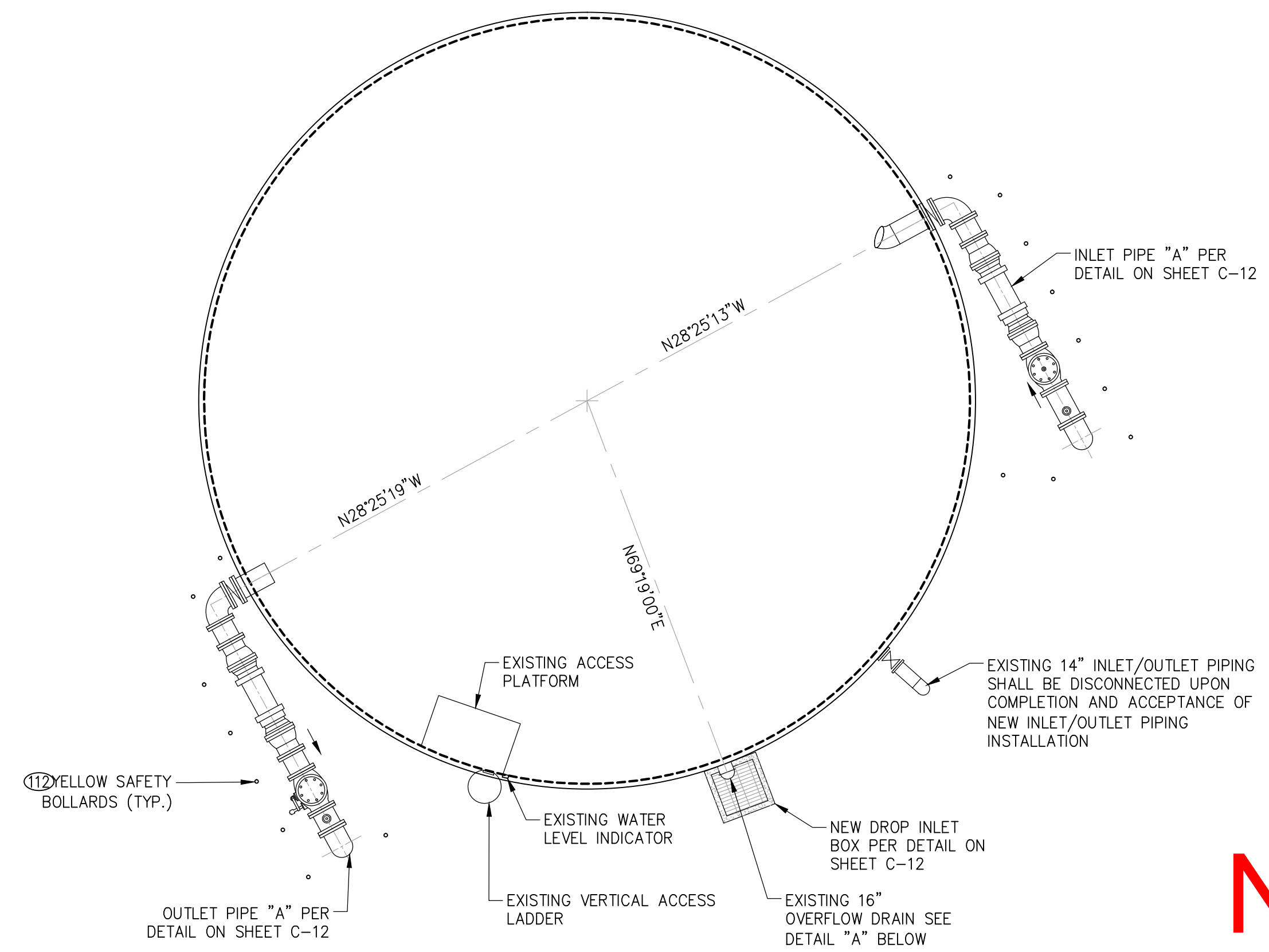
BEAUMONT-CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

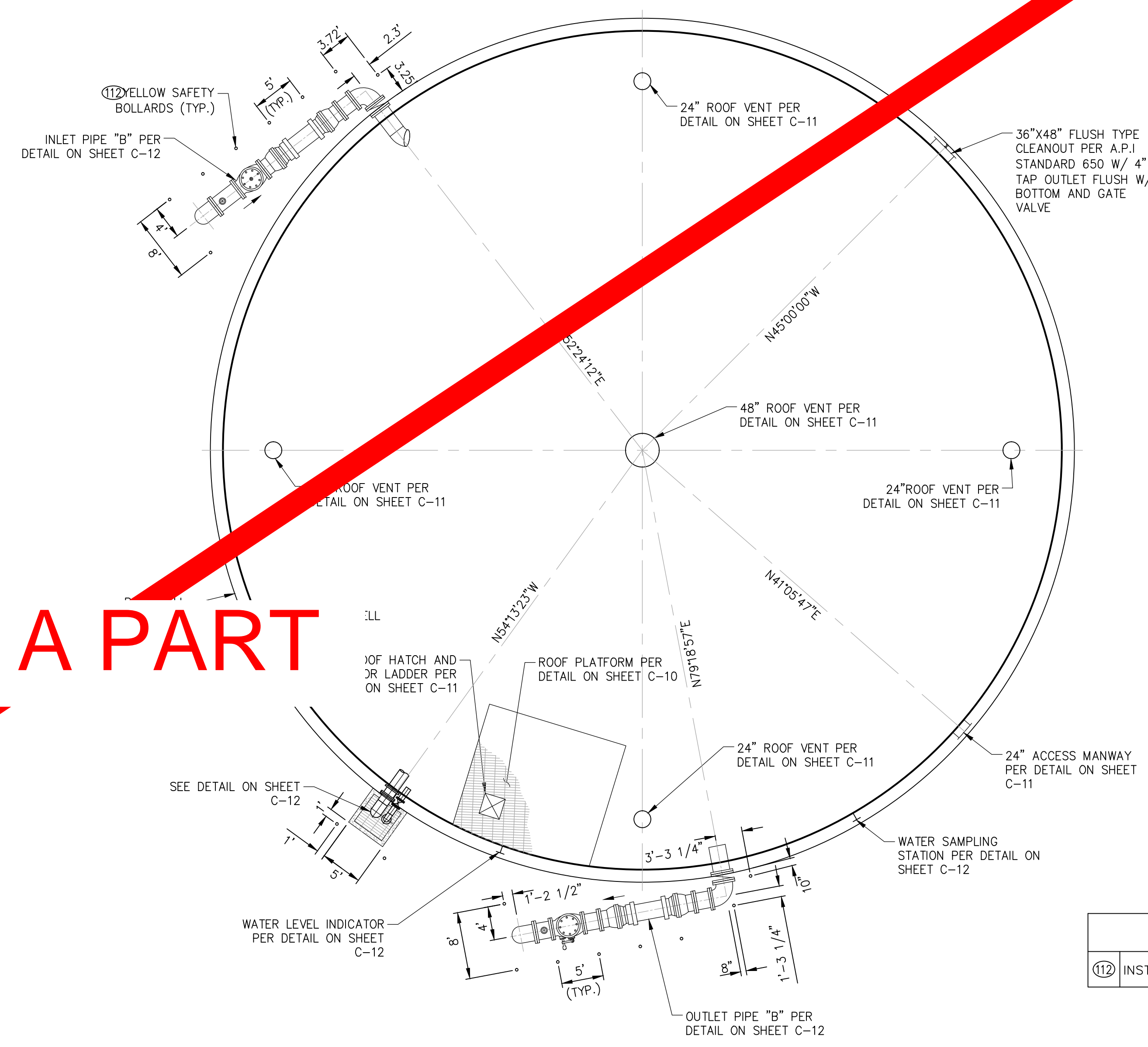
SITE PIPING PLAN & PROFILES

SHEET NO. **C-8**
OF 15 SHTS
DRAWING NO.
AR/WO/PLP: 7367 / 7368

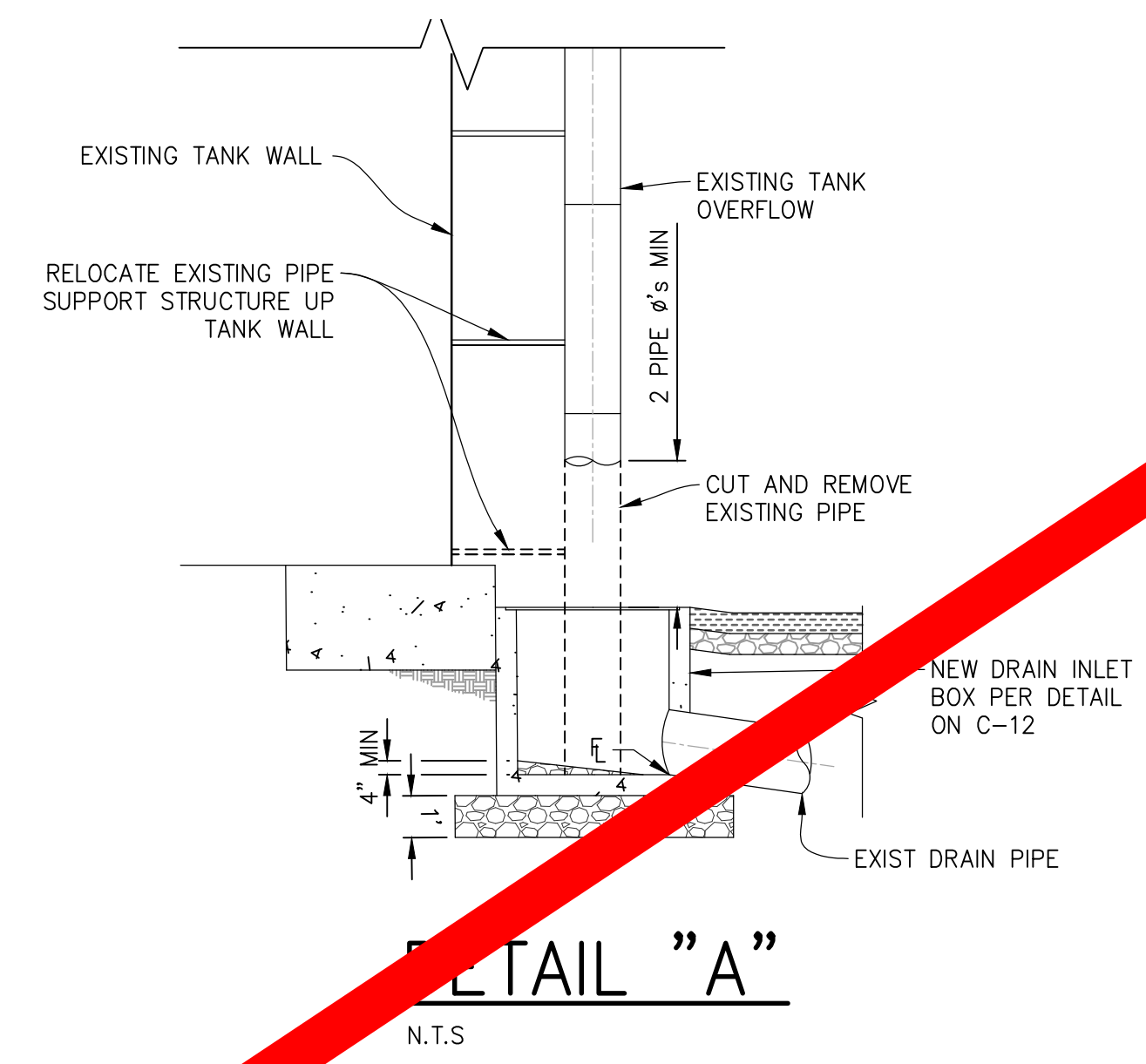
EXISTING NOBLE TANK NO. 1



PROPOSED NOBLE TANK NO. 2



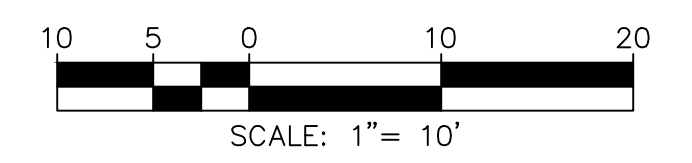
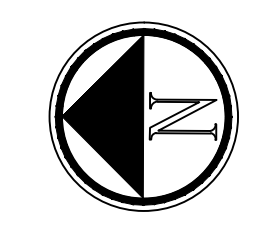
NOT A PART



EXISTING & PROPOSED RESERVOIR APPURTENANCE PLAN

SCALE: 1"=10'

CONSTRUCTION NOTES
 (12) INSTALL 4" BOLLARD PER DETAIL ON SHEET C-6



NOTE: ALL DISTANCES ARE HORIZONTAL MEASUREMENTS. CONTRACTOR TO VERIFY ALL QUANTITIES

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CHECKED	B.FOX
APPROVED	
REG. NO.	

REV	DATE	DESCRIPTION	BY

BENCHMARK	SEE SHEET 1
SCALE	AS SHOWN

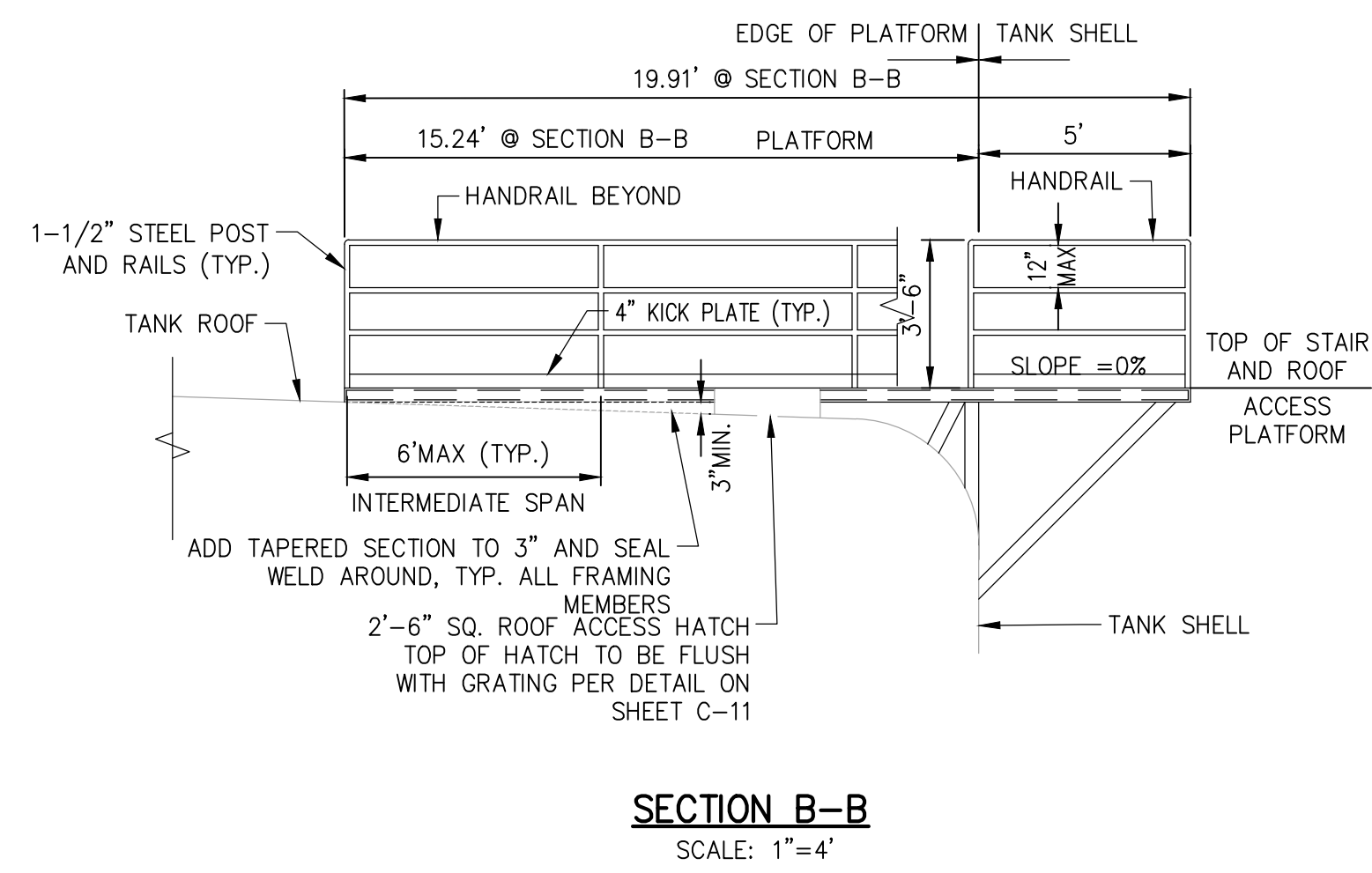
BEAUMONT-CHERRY VALLEY WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA

DISTRICT ENGINEER _____ R.C.E. NO. _____ DATE _____

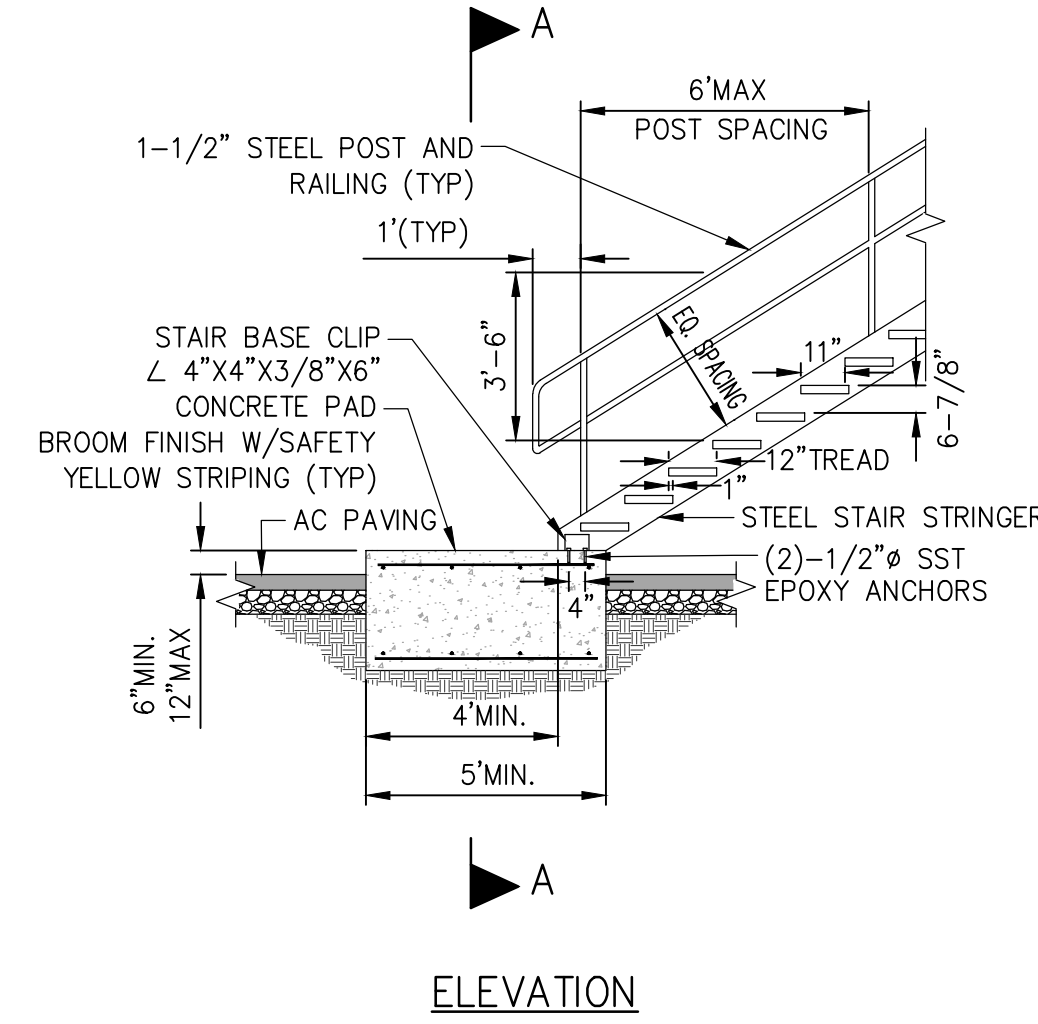
NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

EXISTING & PROPOSED RESERVOIR APPURTENANCE PLAN

SHEET NO. C-9 OF 15 SHTS DRAWING NO. AR/WO/PLP: 7367 / 7368

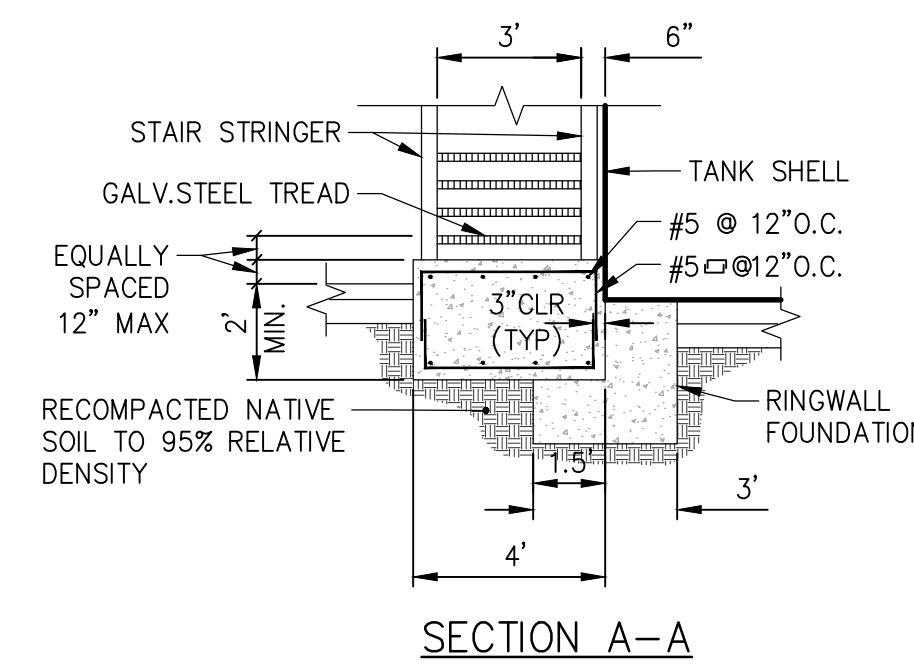


SECTION B-B
SCALE: 1"=4'

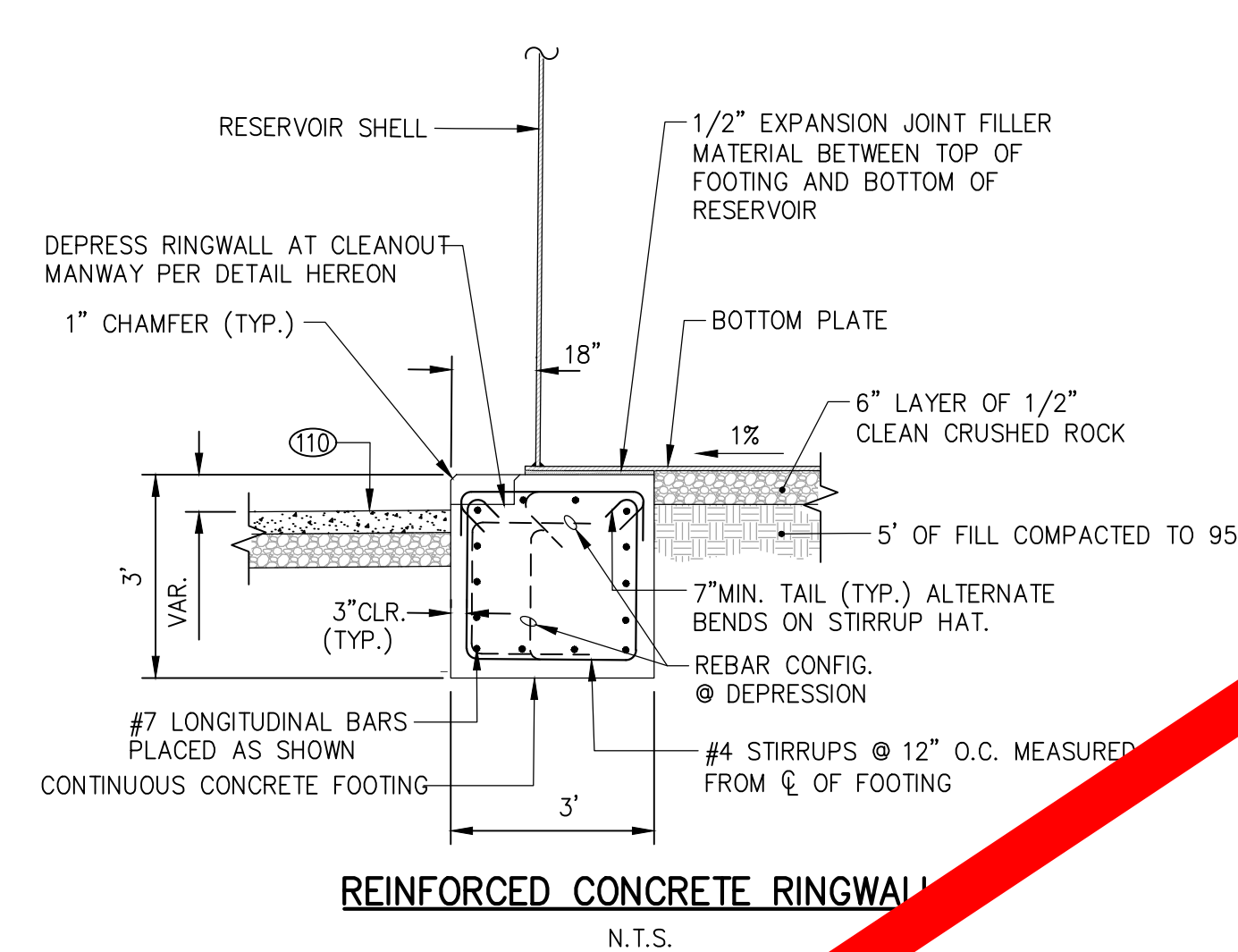


ELEVATION

STAIRWAY HANDRAIL AND CONCRETE PAD
SCALE: 1"=4'

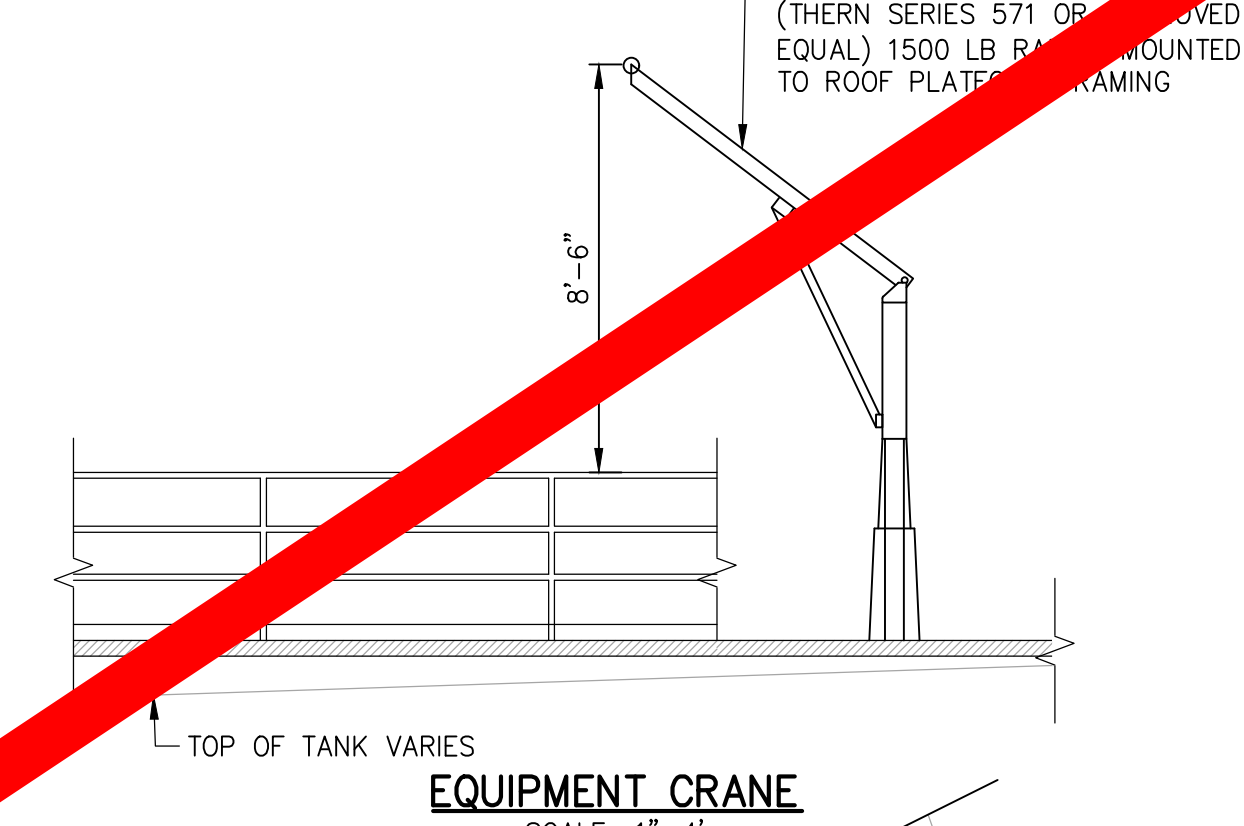


SECTION A-A



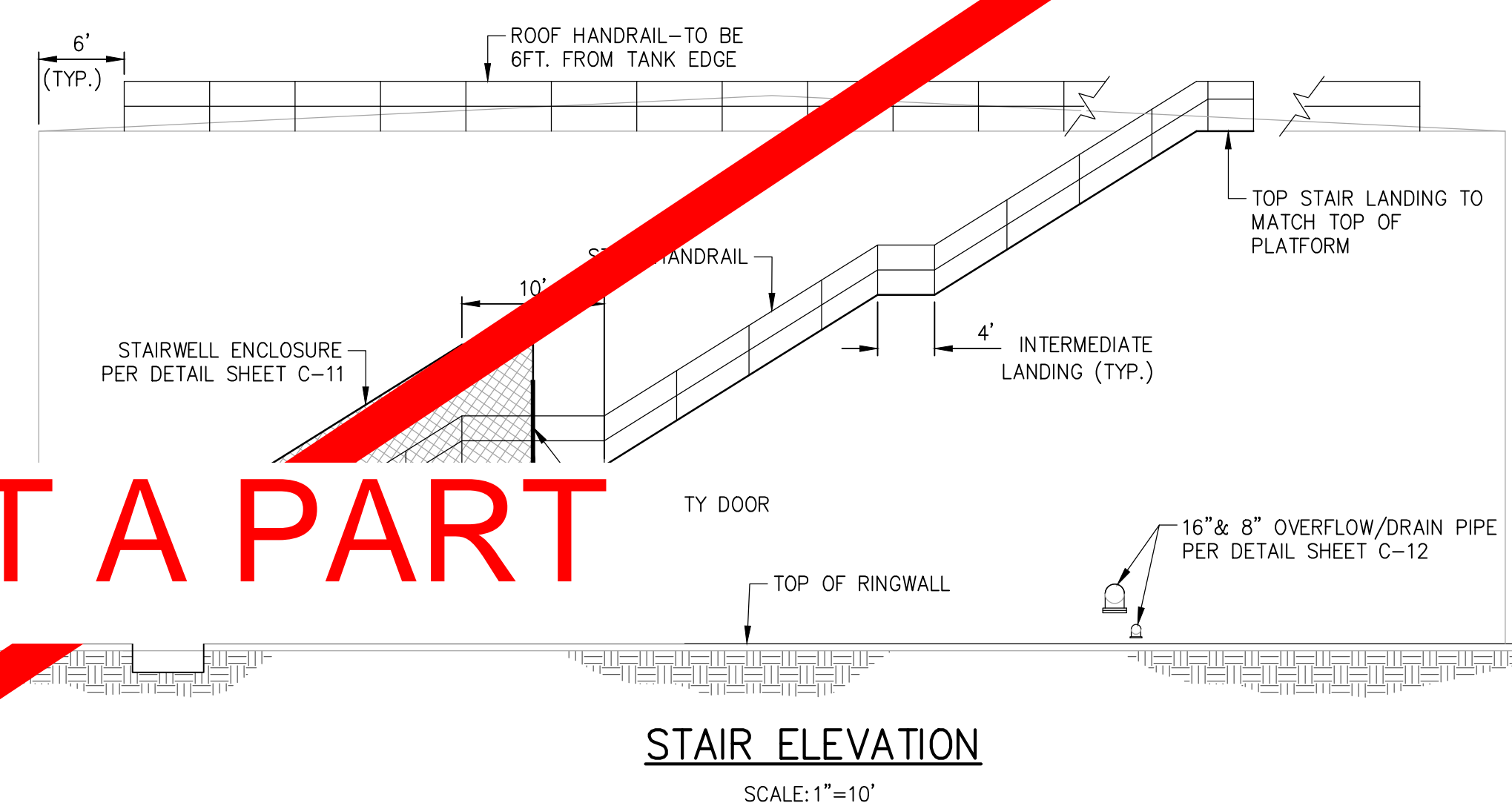
REINFORCED CONCRETE RINGWALL
N.T.S.

CONSTRUCTION NOTES
 (110) PLACE 4" MIN A.C. PAVING OVER MIN CLASS II AGGREGATE BASE MATERIAL

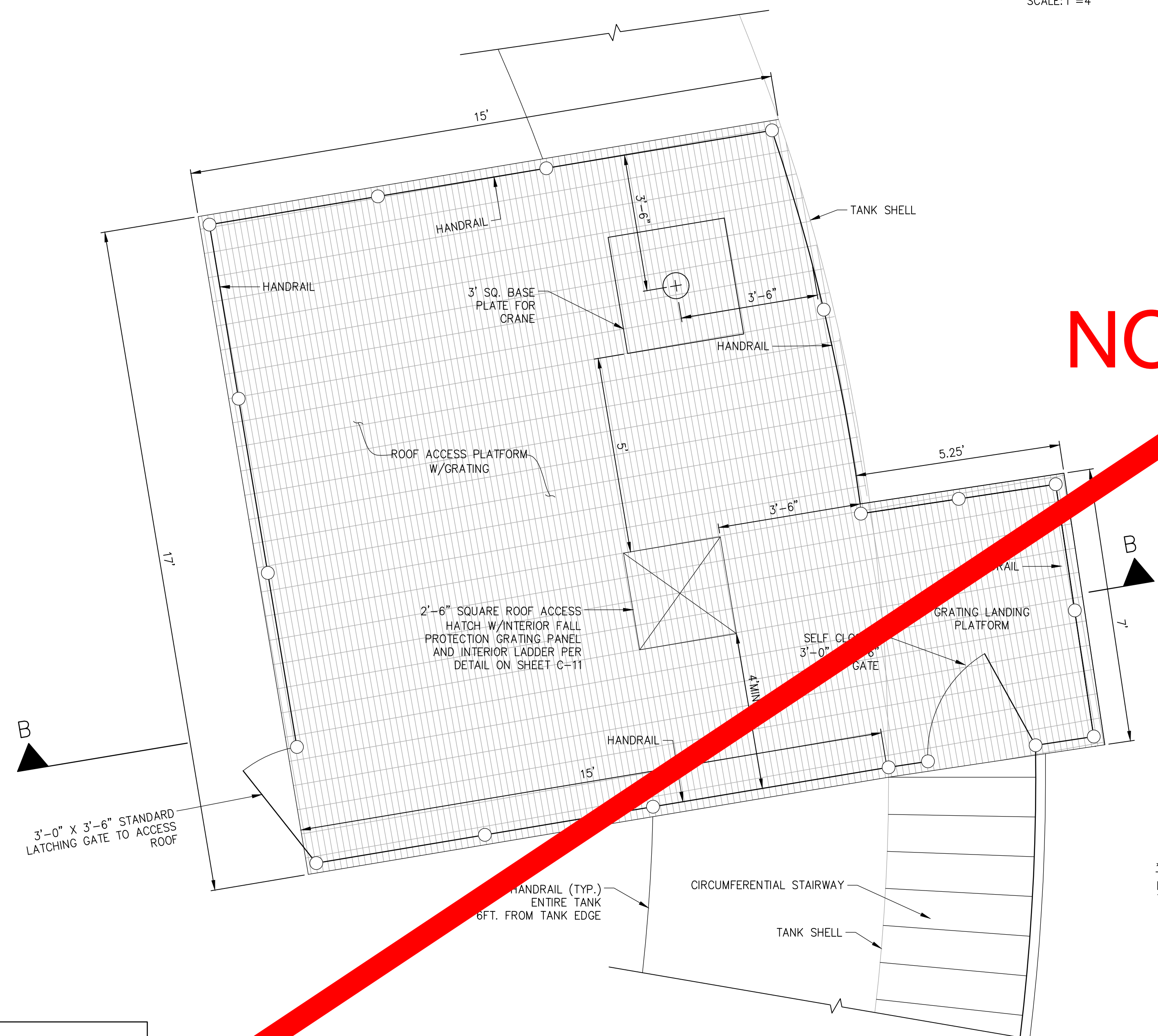


EQUIPMENT CRANE
SCALE: 1"=4'

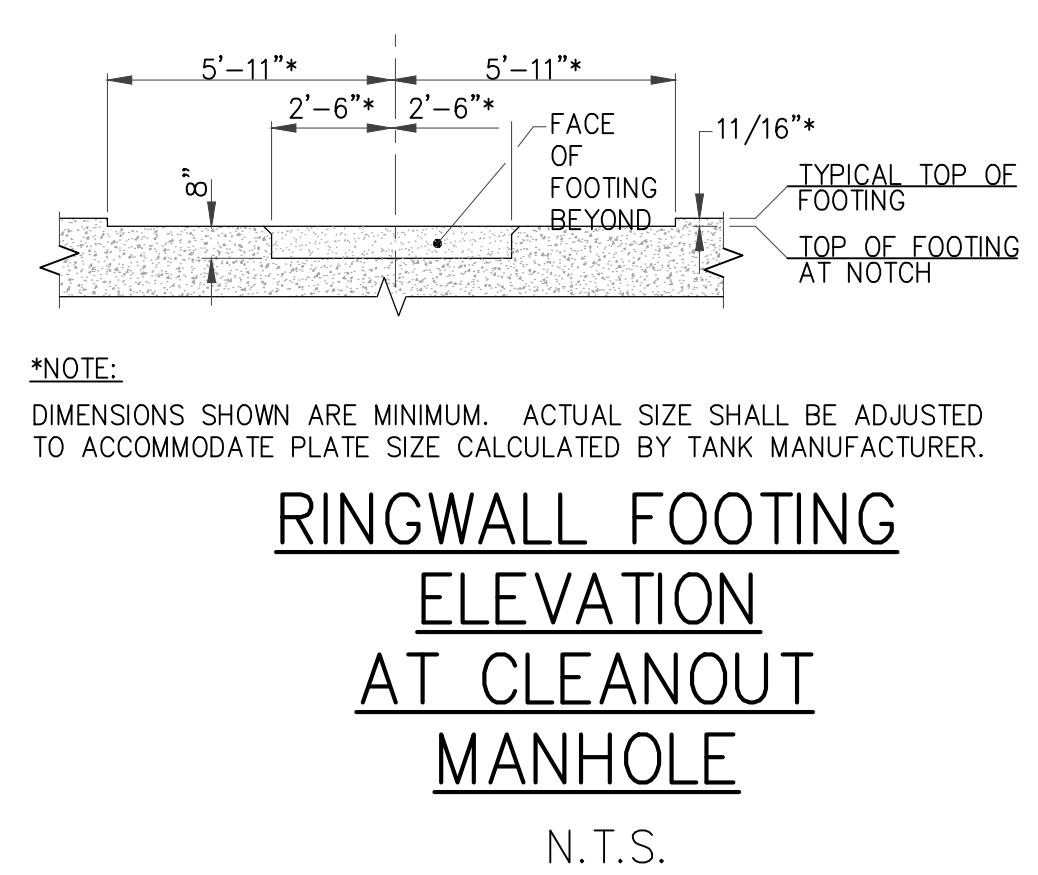
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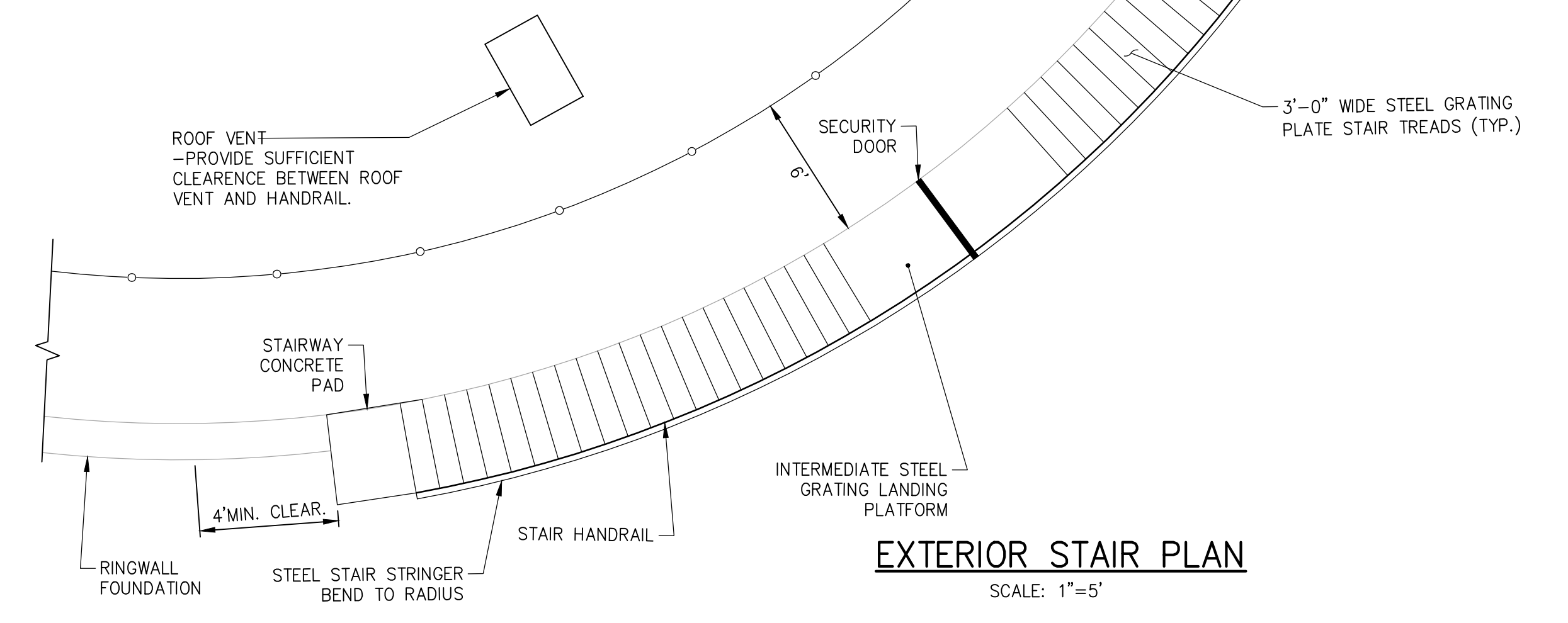
STAIR ELEVATION
SCALE: 1"=10'



RESERVOIR ROOF ACCESS PLATFORM AND HATCH
SCALE: 1"=2'



RINGWALL FOOTING ELEVATION AT CLEANOUT MANHOLE
N.T.S.



EXTERIOR STAIR PLAN
SCALE: 1"=5'

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REG. NO.	

BENCHMARK	SEE SHEET 1
SCALE	AS SHOWN
DATE	
DESCRIPTION	

BEAUMONT-CHERRY VALLEY WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA

DISTRICT ENGINEER _____ R.C.E. NO. _____ DATE _____

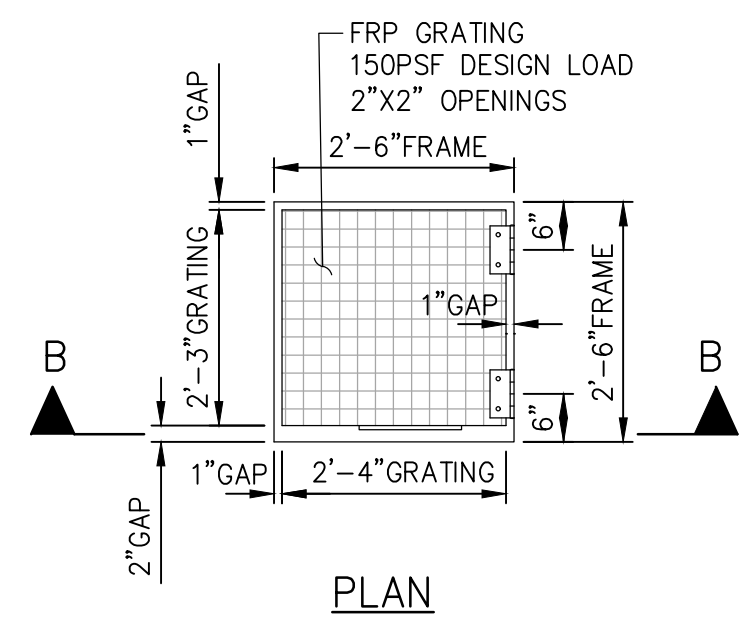
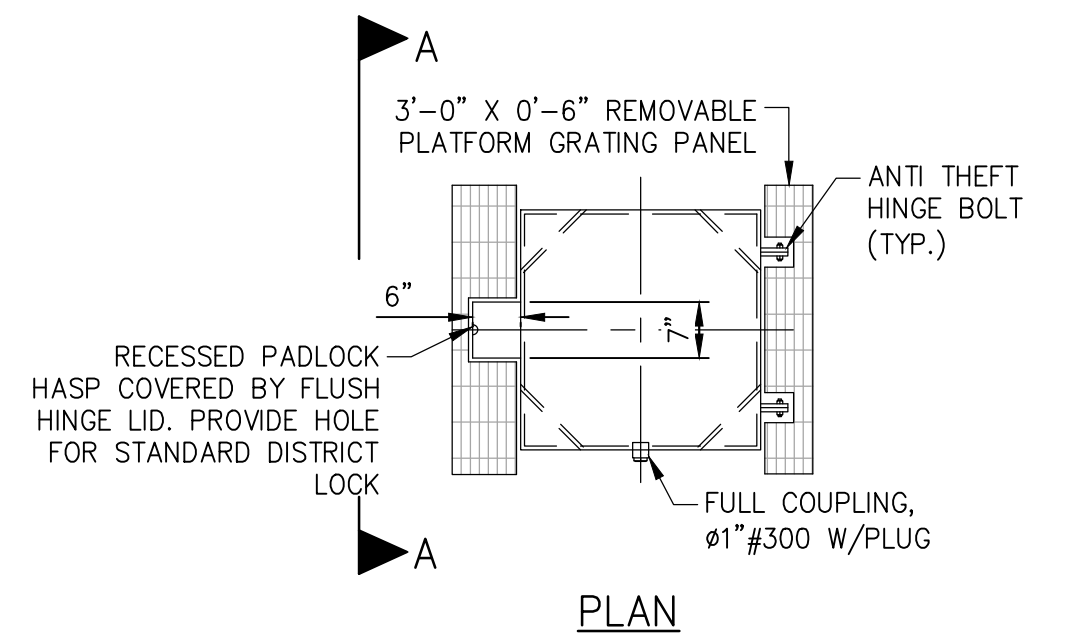
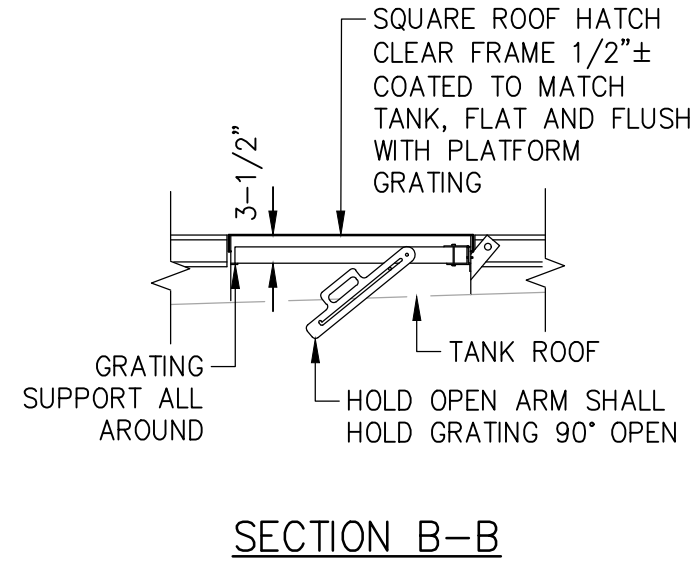
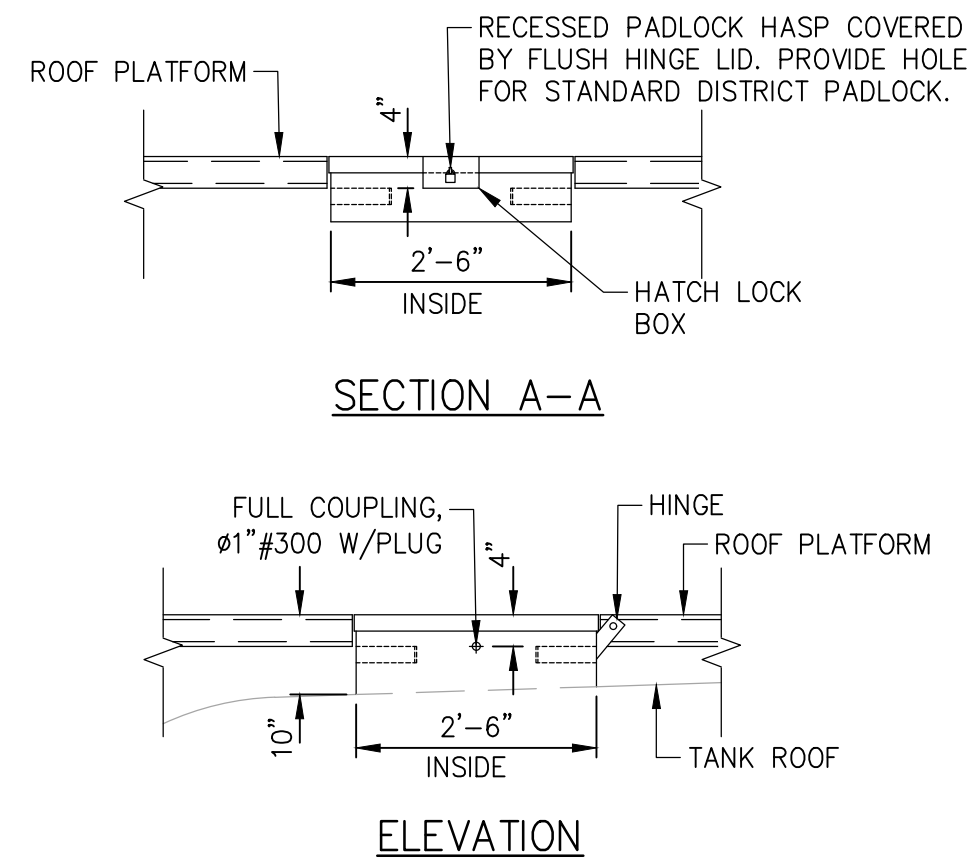
NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

CIRCUMFERENTIAL STAIRS & PLATFORM

SHEET NO. **C-10**
 OF 15 SHTS
 DRAWING NO. _____
 AR/WO/PLP: 7367 / 7368

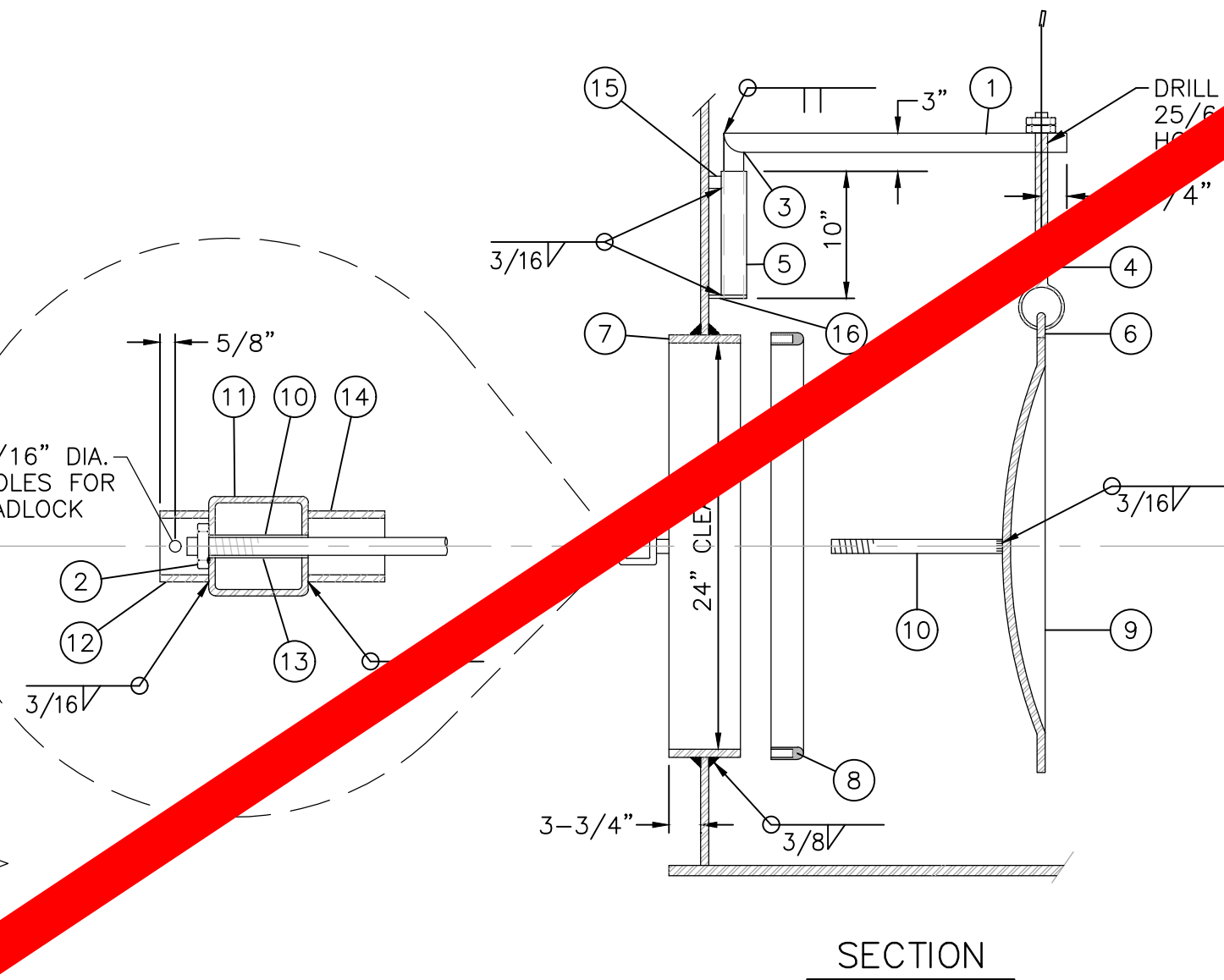
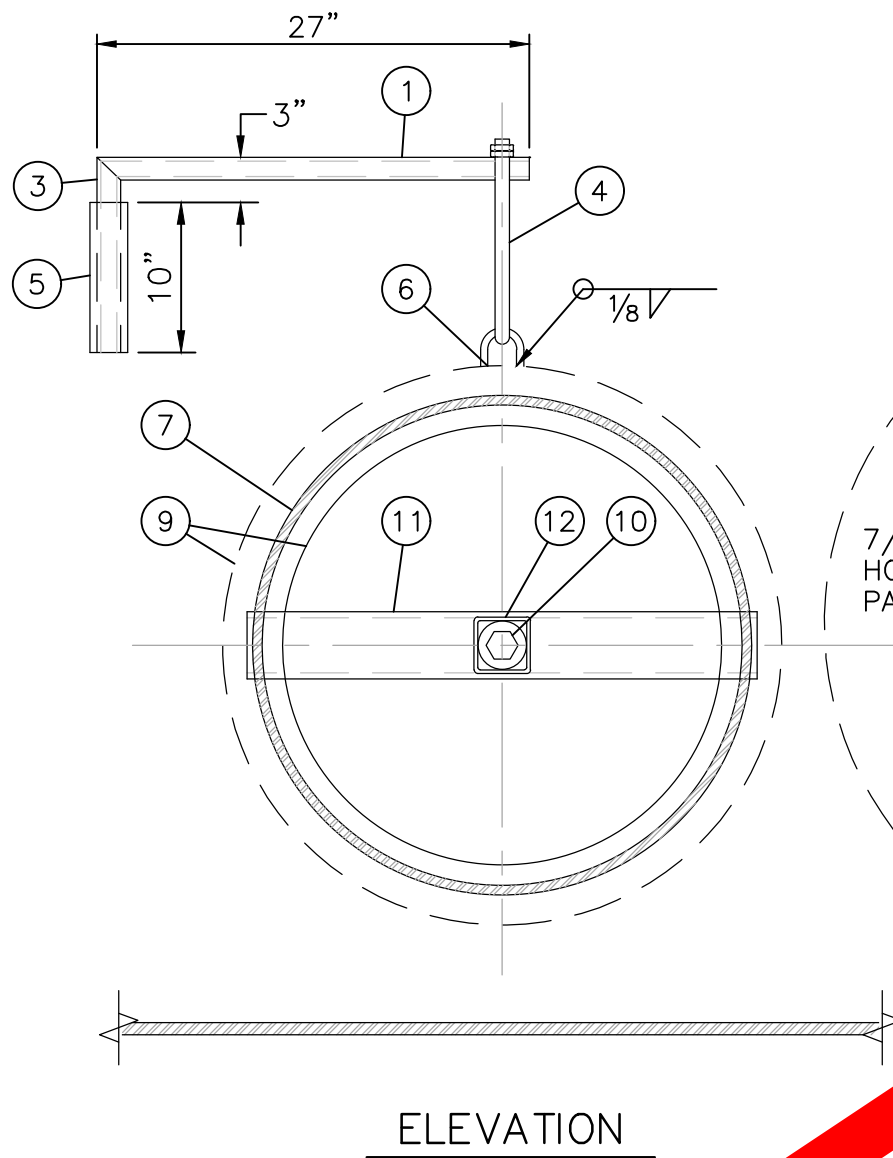
NOTE:
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MEASUREMENTS. CONTRACTOR TO
VERIFY ALL QUANTITIES

SAFETY CLIMB DEVICE NOTES
PROVIDE ONE GALVANIZED SAFETY
CLIMB DEVICE CARRIER RAIL AND BELT
SUCH AS SAF-T-CLIMB AS MANUFACTURED
BY AIR SPACE DEVICES, INC. PER
RESERVOIR (NOT SHOWN)



SQUARE ROOF HATCH SCALE: 1"=2'

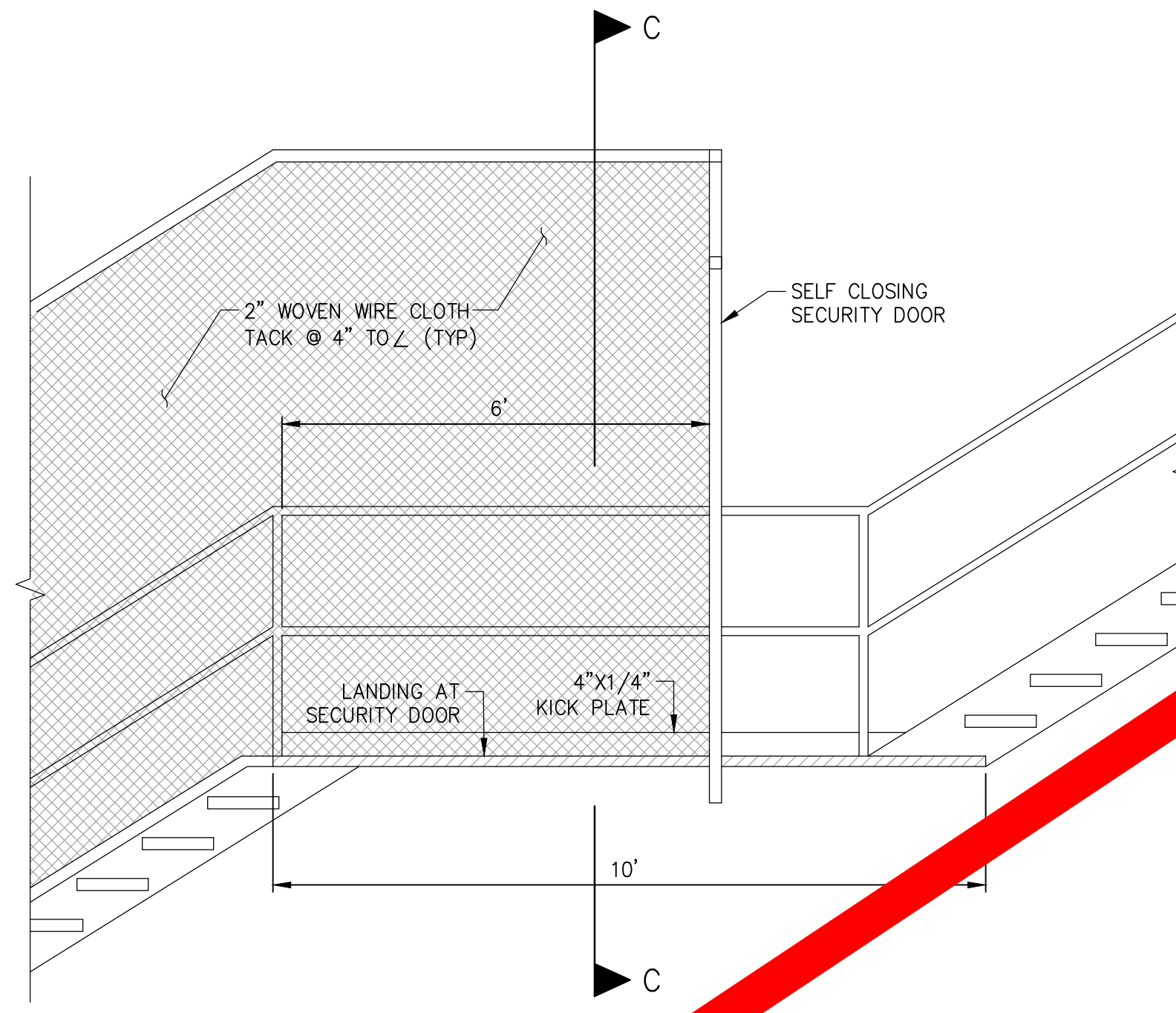
ROOF HATCH FALL PROTECTION GRATING SCALE: 1"=2'



ACCESS MANWAY

N.T.S.

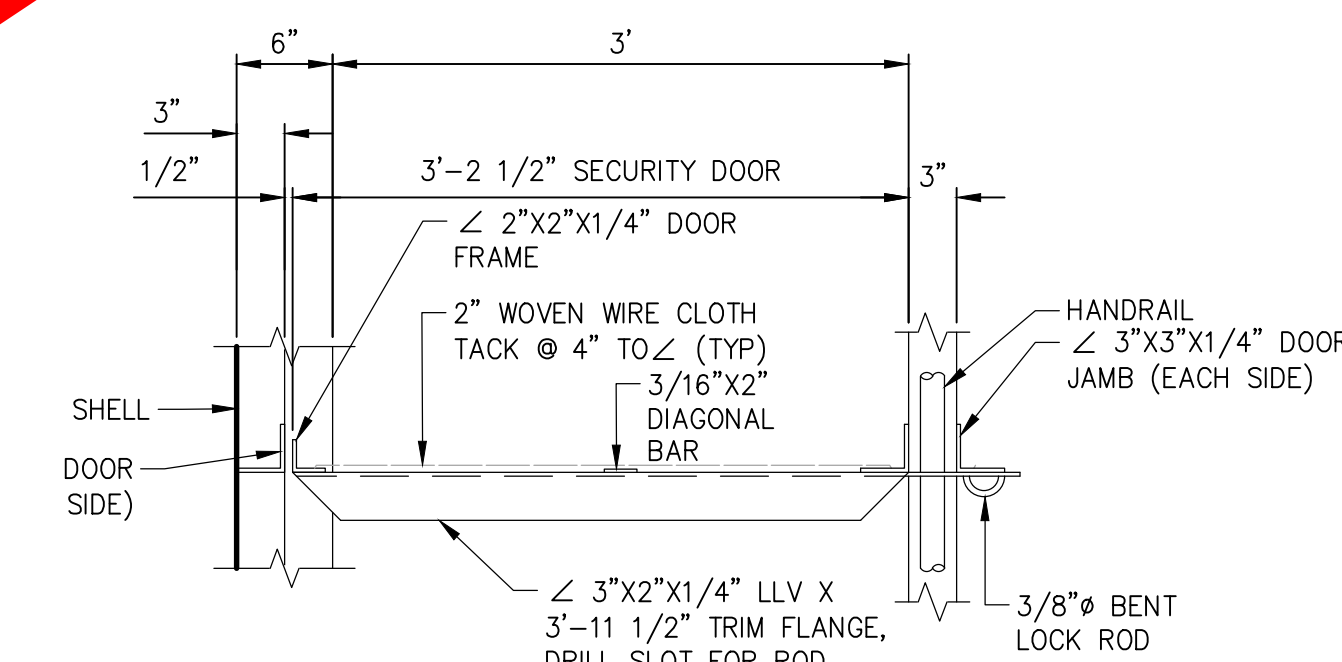
MATERIAL LIST- ACCESS MANWAY	
ITEM	DESCRIPTION
1	1-1/2" STD. WT. PIPE x 2'-3" LG. MITER & WELD AS SHOWN
2	3/4" HEAVY HEX NUT & LOCK WASHER
3	1-1/2" STD. WT. PIPE x 13" LG. MITER & WELD AS SHOWN
4	3/8" x 8" EYE BOLT & 2 NUTS
5	2" SCH. 80 STEEL PIPE x 10" LG.
6	3/8" HALF LINK
7	1" THICK x 8" WIDE x 6' 7-19/32" LG. PL. ROLLED TO 24" I.D.
8	1/4" C RING GASKET x 23" I.D. 50 DURO-HARD
9	3/8" x 22" I.D. x 28" O.D. x 28" RAD HAT HEAD
10	3/4" DIA. ROUND BAR x 10-1/2" LG. W/2" NC T.O.E.
11	TS 3" x 3" x 1/4" x 27" LG.
12	TS 2-1/2" x 2-1/2" x 3/16" x 2-1/2" LG. W/7/16" DIA. HOLES
13	3/4" STD. WT. PIPE x 3" LG.
14	TS 2-1/2" x 2-1/2" x 3/16" x 3" LG. W/7/16" DIA. HOLES
15	1-1/4" x 1-1/2" x 1-13/16" FB
16	1-1/4" x 1-1/2" x 4" FB



ELEVATION

SCALE: 1"=1'

INTERIOR LADDER

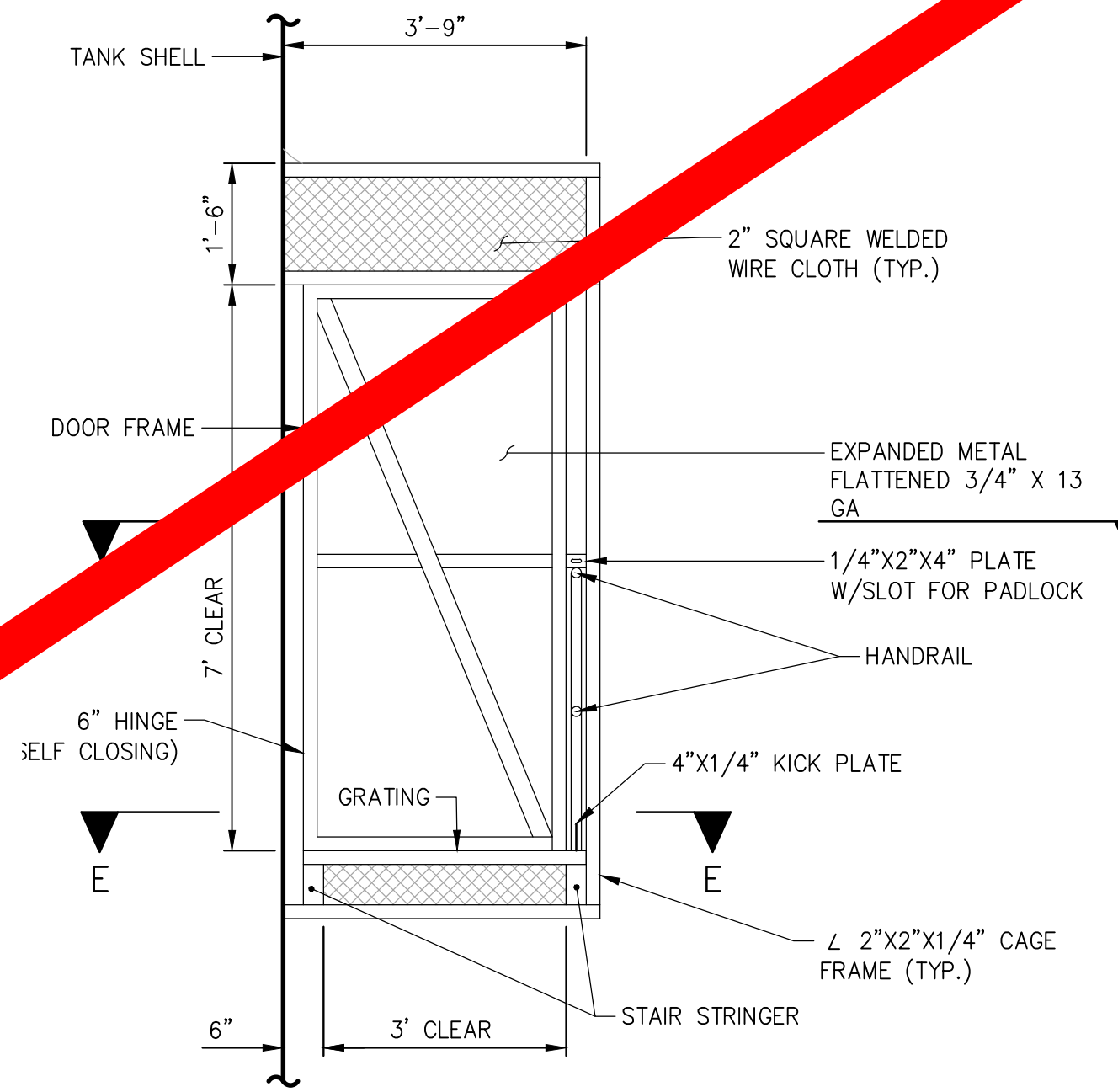


SECTION D-D

SCALE: 1"=1'

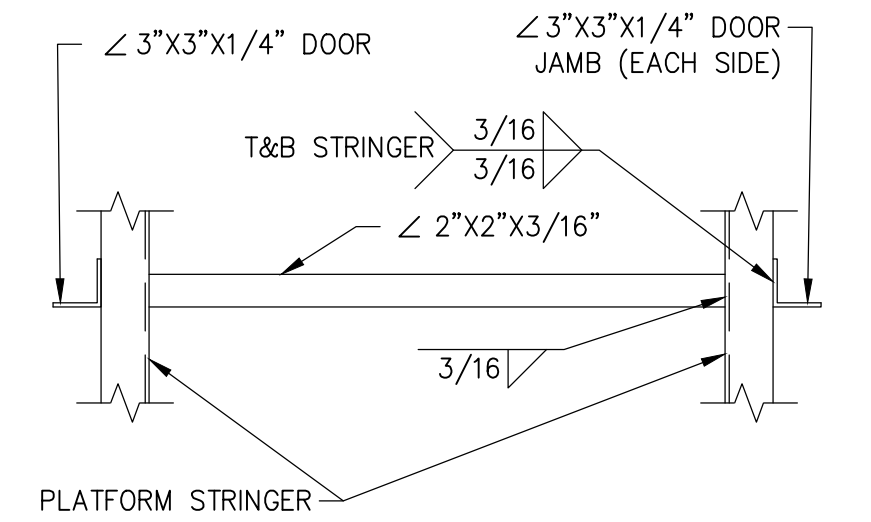
SECURITY DOOR

SCALE: AS NOTED

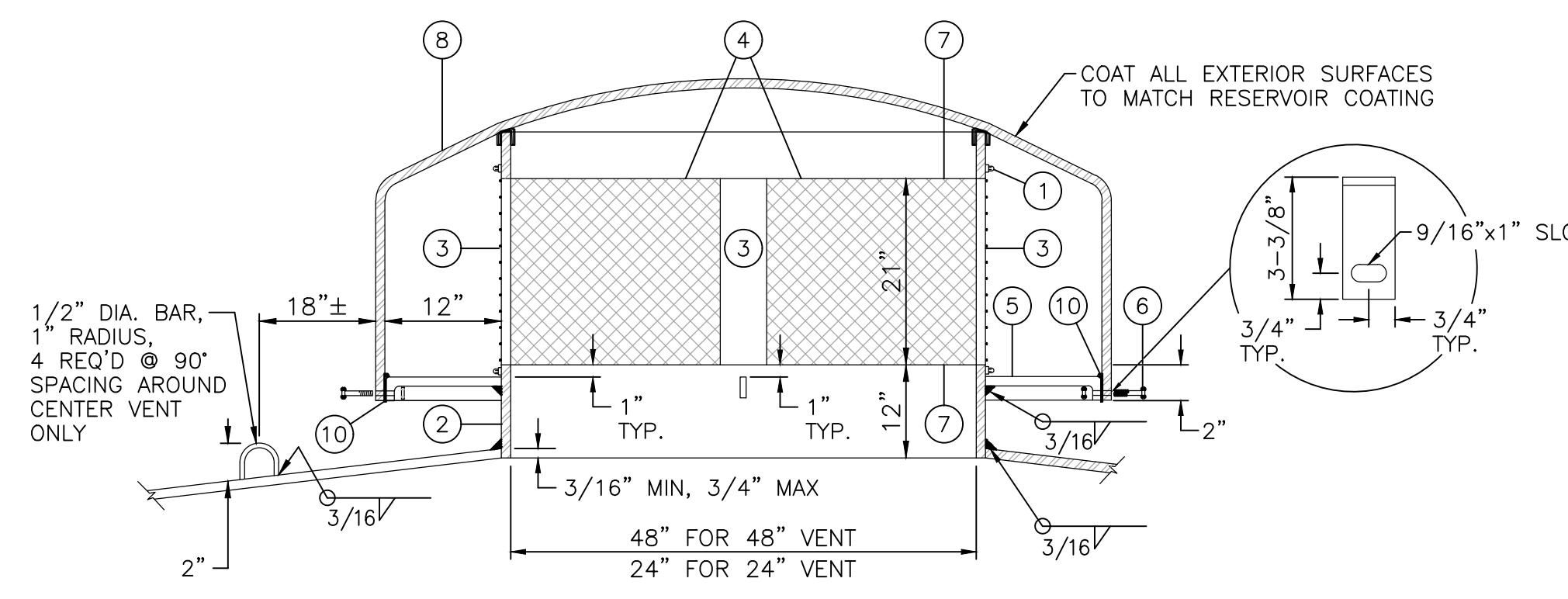


SECTION C-C

SCALE: 1"=2'



SECTION E-E



SECTION

ROOF VENTS

N.T.S.

MATERIAL LIST- ROOF VENTS	
ITEM	DESCRIPTION
1	1/2" STAINLESS STEEL BAND AND WORM DRIVE CLAMP
2	1/4" x 12" ROLLED TO O.D. OF OPENING
3	FOUR-1/4" x 3" FB
4	1/4" x 2" FB - ROLLED TO O.D. OF OPENING
5	FOUR- 1/4" x 1-1/2" FB BEND & PUNCH AS SHOWN SPACED EVENLY AROUND ITEM 2. LENGTH AS REQUIRED FOR OPENING SHOWN.
6	FOUR- 1/2" x 1-1/2" NC BOLT & NUT
7	8 x 8 MESH INSECT SCREEN x 0.028" WIRE, BRONZE
8	3/16" THICK BUMPED ALUMINUM HEAD
9	PROVIDE NEOPRENE ISOLATION C-RING GASKET- 1/4" 50 DURO HARD.
10	SQUARE NEOPRENE ISOLATION GASKET

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APPROVED
REG. NO.

BENCHMARK
SEE SHEET 1
SCALE
AS SHOWN
REV DATE DESCRIPTION: BY

BEAUMONT-CHERRY VALLEY WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA

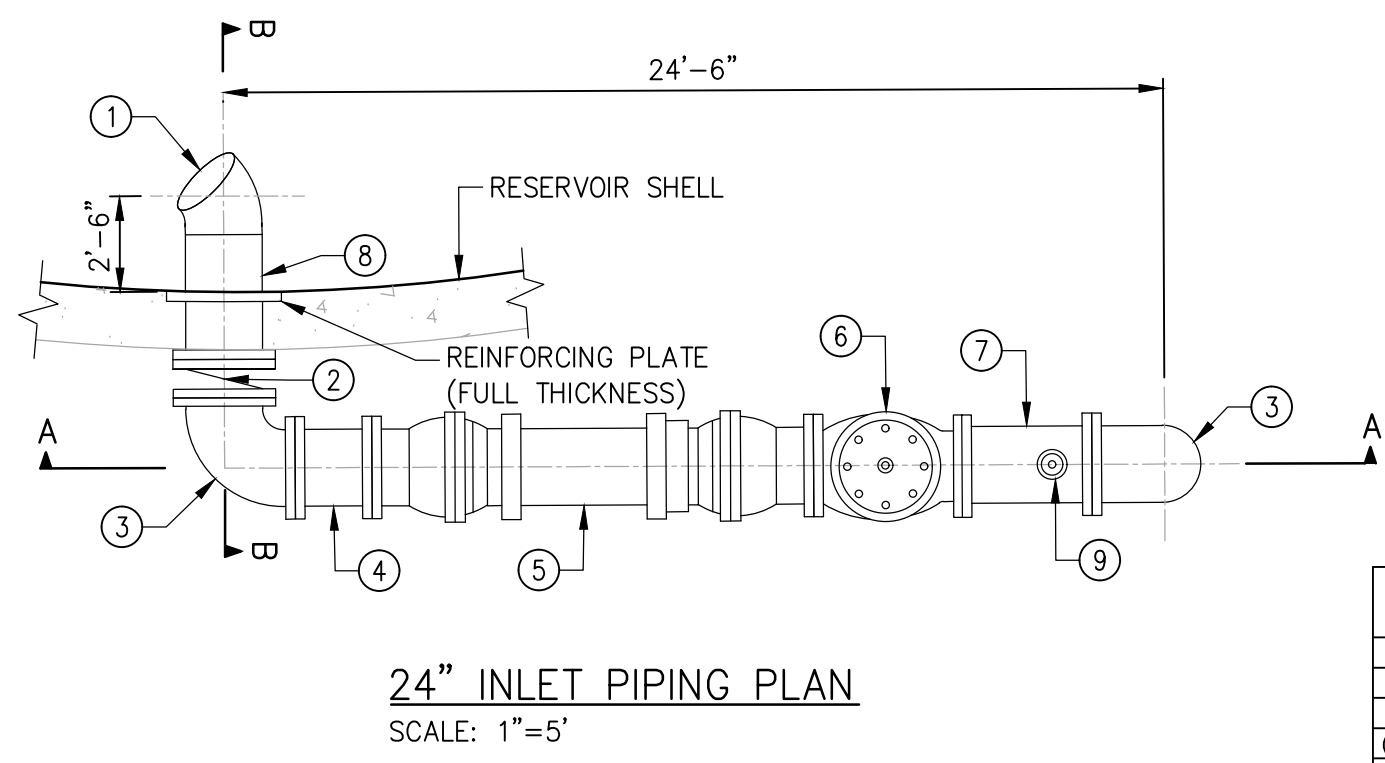
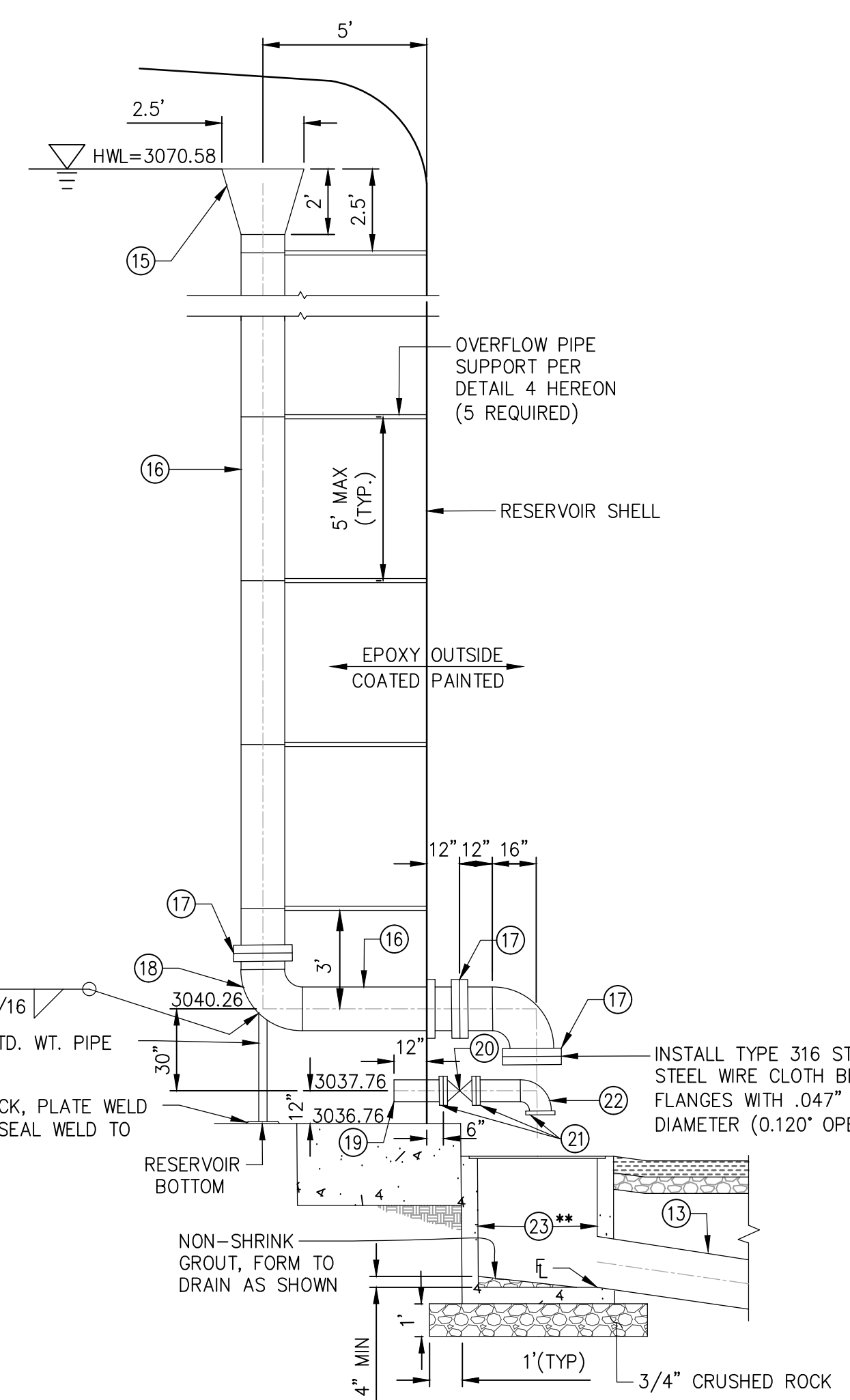
DISTRICT ENGINEER R.C.E. NO. DATE

NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

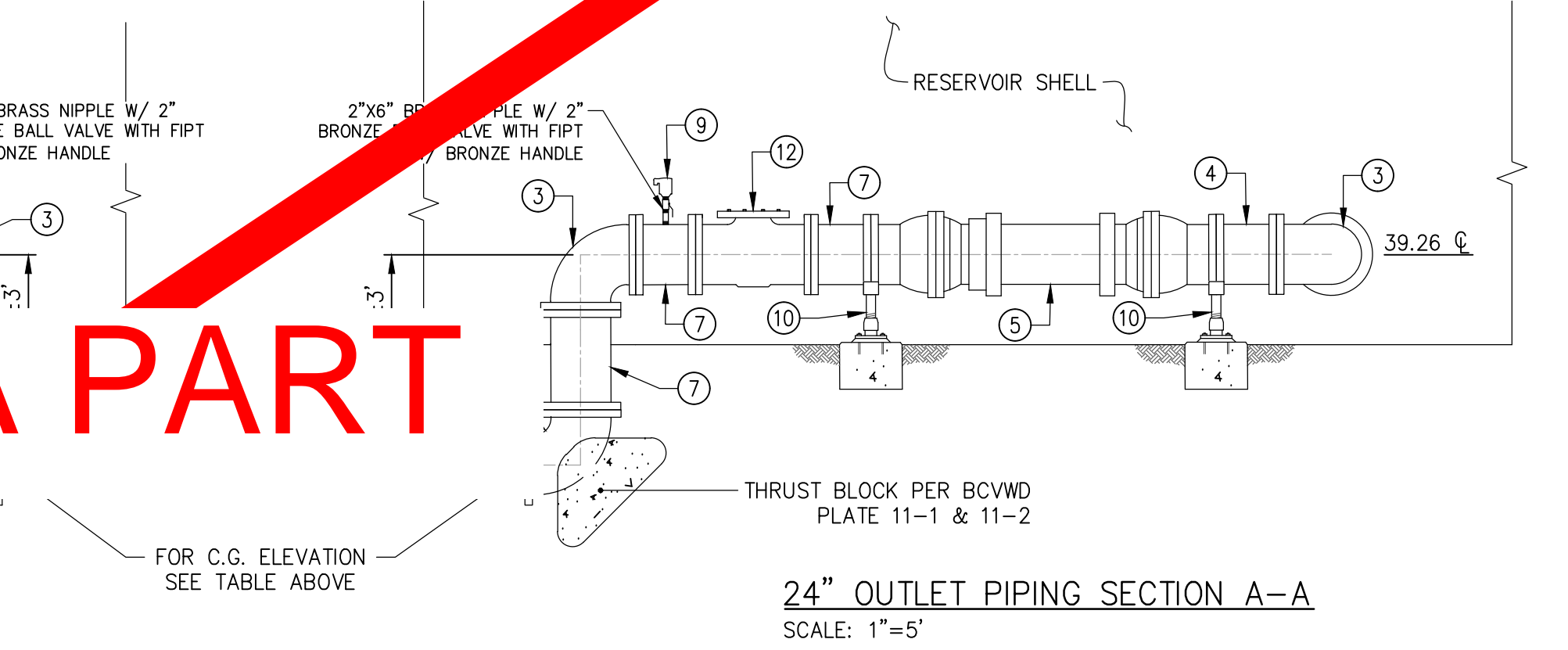
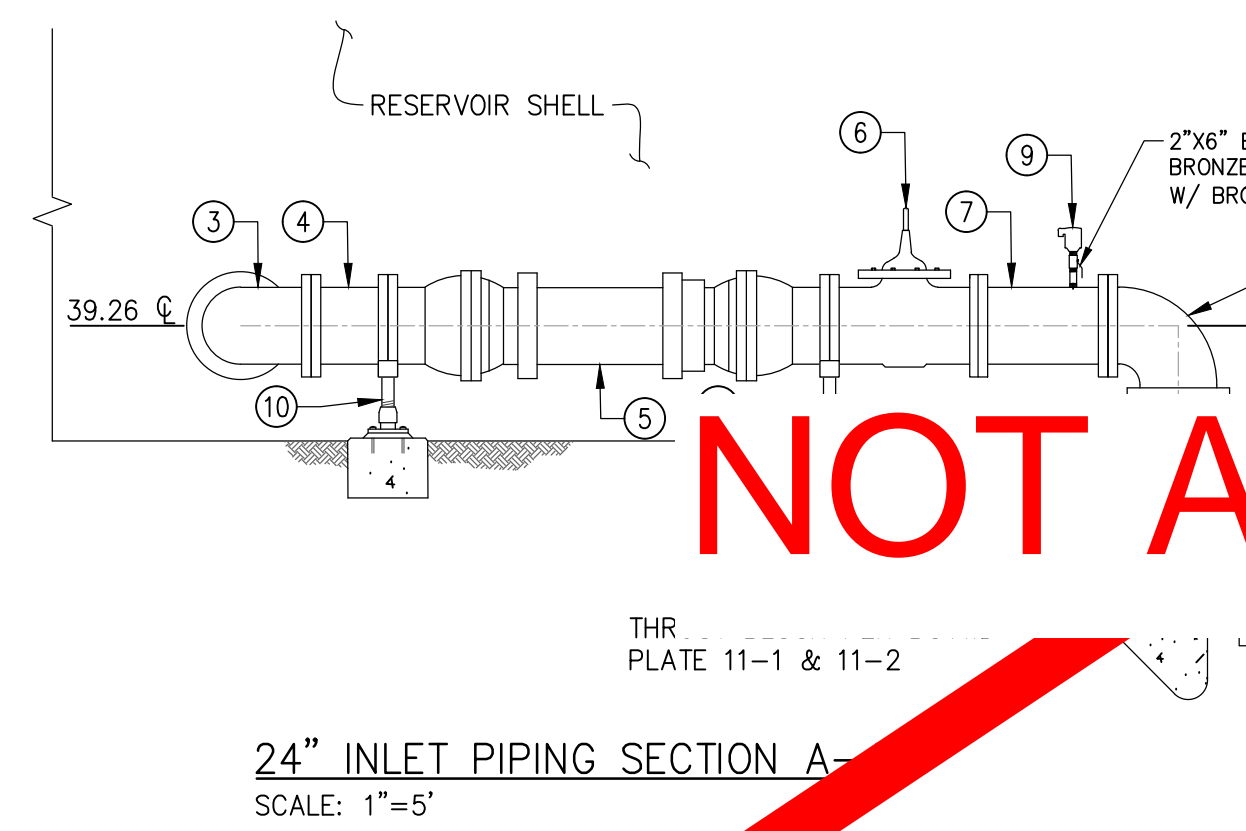
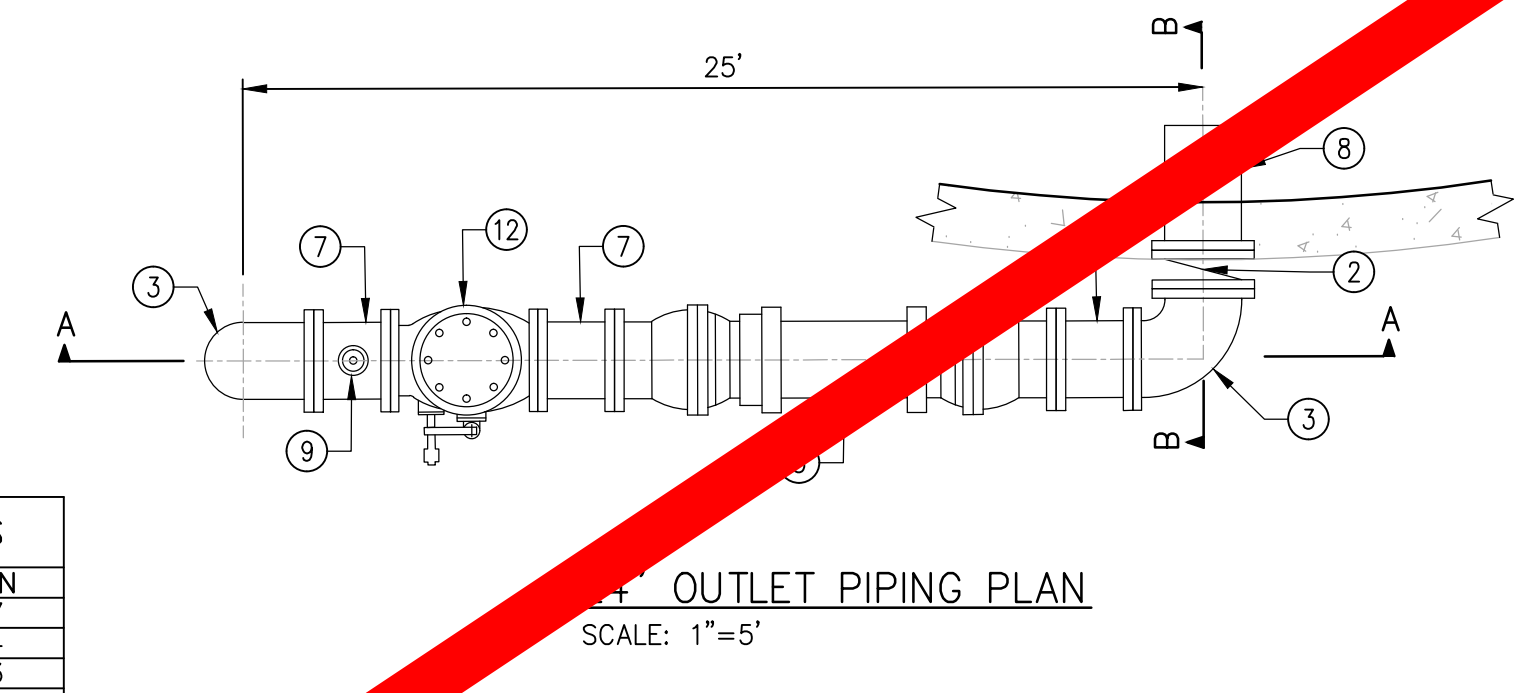
TANK ACCESS & ROOF VENTS

SHEET NO. C-11
OF 15 SHTS
DRAWING NO.
AR/WO/PLP:
7367 / 7368

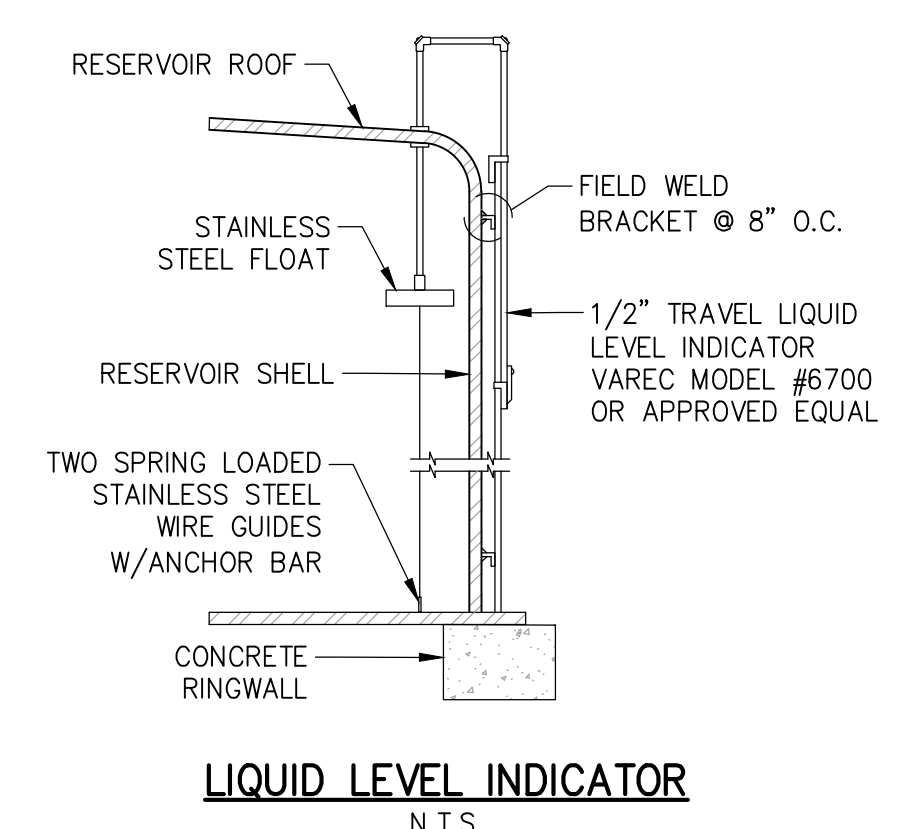
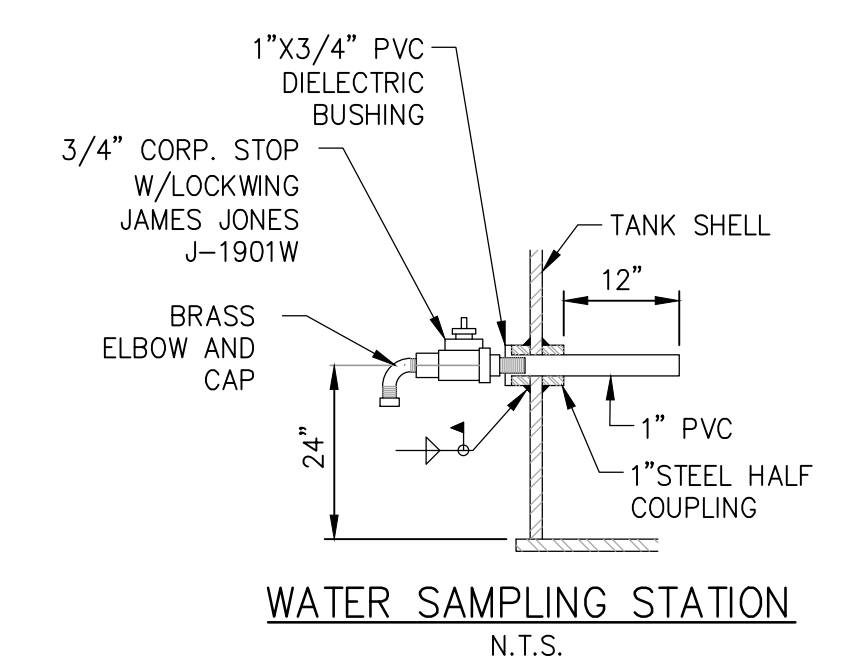
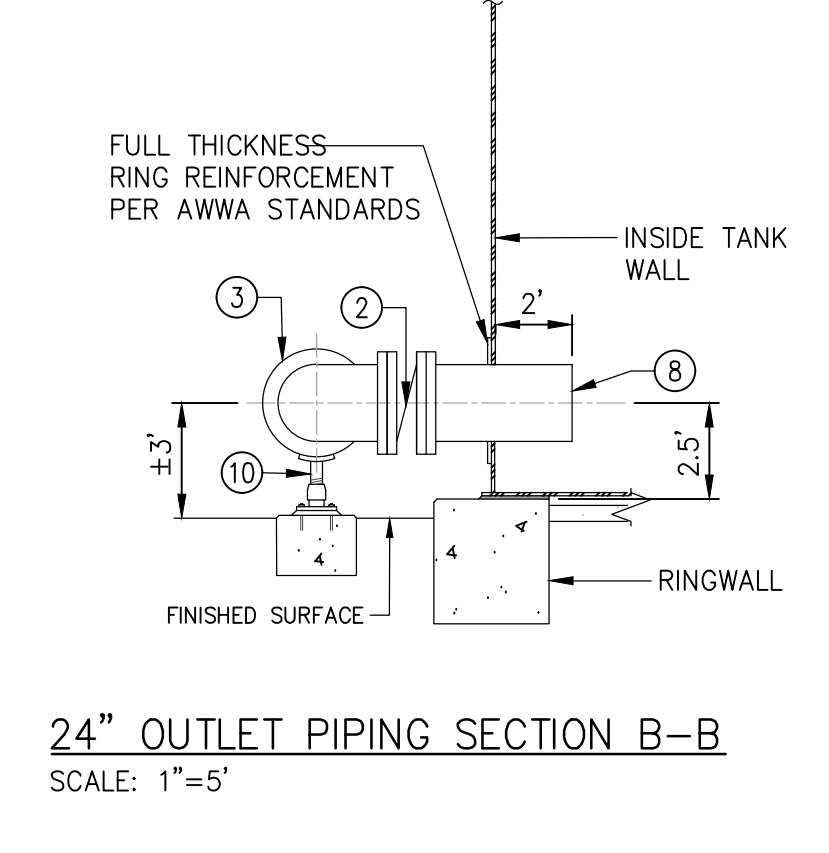
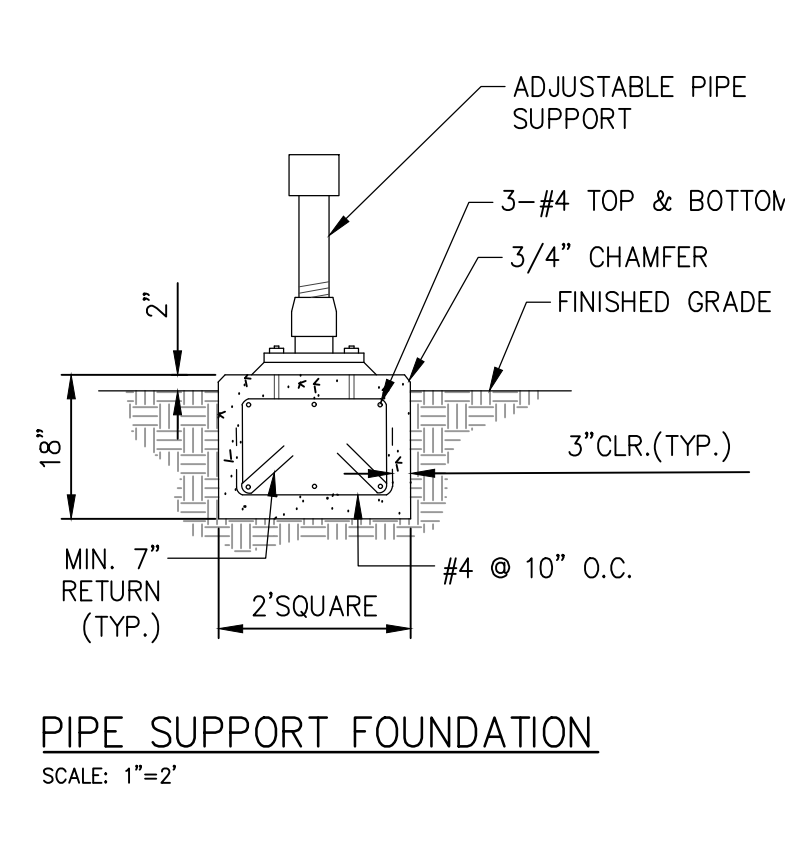
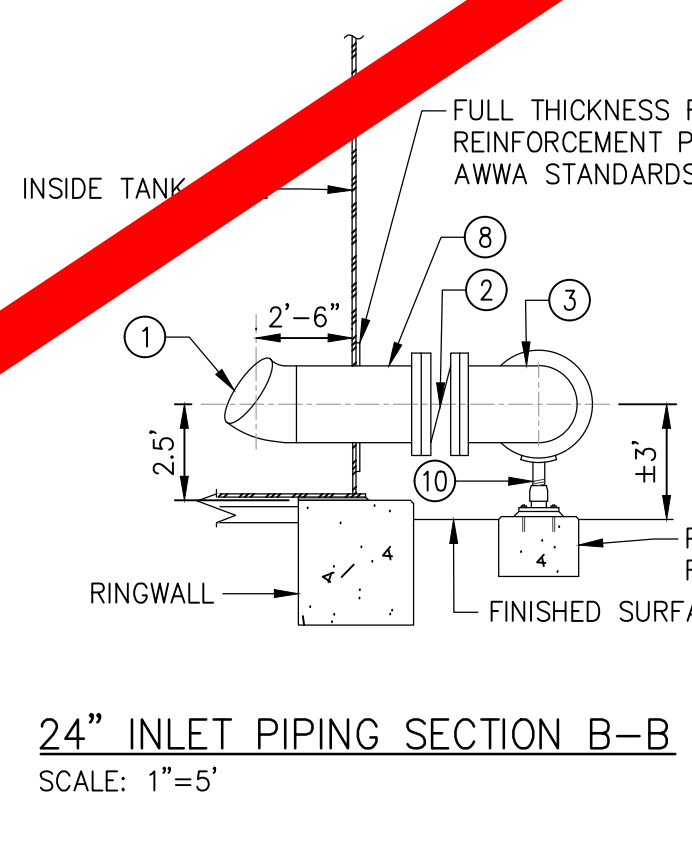
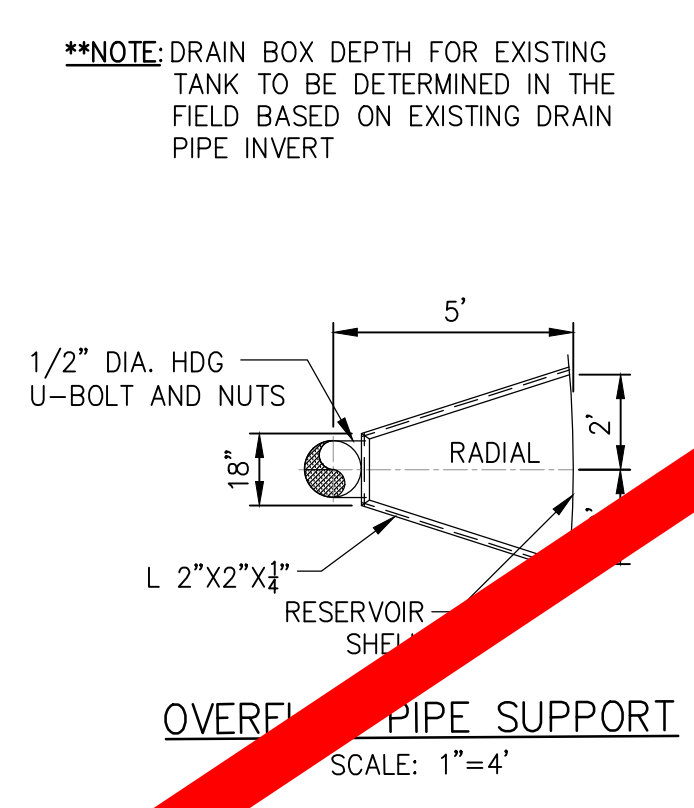
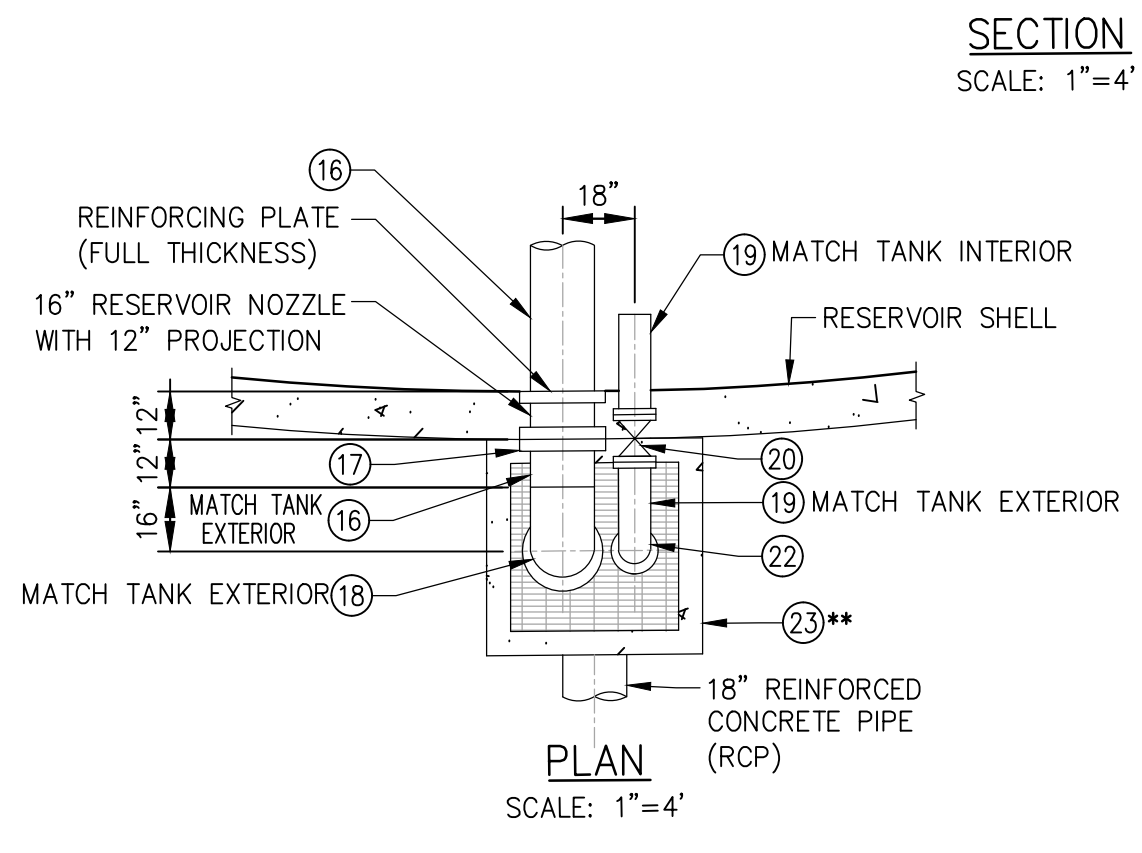
MATERIAL LIST	
①	67.5' ELBOW TURNED UP AT 20°
②	24" BUTTERFLY VALVE
③	DUCTILE IRON 90° ELBOW
④	24" X 24" LONG FFX DUCTILE IRON SPOOL
⑤	24" FLEX-TEND EBAA IRON FLEXIBLE EXPANSION JOINT OR APPROVED EQUAL
⑥	24" CLA-VAL ALTITUDE VALVE MODEL 210-01 OR APPROVED EQUAL
⑦	24" FFX DUCTILE IRON SPOOL SIZED TO FIT
⑧	24" STEEL SPOOL SIZED TO FIT
⑨	2" AIR VACUUM RELEASE VALVE WITH INSECT SCREEN (ARI D-040 OR APPROVED EQUAL)
⑩	TRUMBULL ITEM 364-5860 24" PIPE SUPPORT OR APPROVED EQUAL
⑪	NOT USED
⑫	24" CLA-VAL CHECK VALVE MODEL 81-01 OR APPROVED EQUAL
⑬	18" REINFORCED CONCRETE PIPE
⑭	NOT USED
⑮	30"x16" WEIR CONE. 0.25" WALL THICKNESS, EPOXY LINED AND COATED TO MATCH TANK INTERIOR
⑯	16" STEEL STD. WT. PIPE EPOXY LINED AND COATED TO MATCH TANK INTERIOR OR AS NOTED
⑰	16" AWWA CLASS "E" HUB FLANGE, SLIP ON OR WELD NECK AS SHOWN
⑱	16" STD. WT. STEEL SHORT RADIUS 90° ELBOW, EPOXY LINED AND COATED
⑲	8" STD. WT. STEEL PIPE EPOXY LINED AND COATED OR AS NOTED
⑳	8" FLANGED GATE VALVE
㉑	8" AWWA CLASS "E" HUB FLANGE, SLIP ON OR WELD NECK AS SHOWN
㉒	8" STD. WT. SHORT RADIUS 90° ELBOW PAINTED TO MATCH TANK EXTERIOR
㉓	4'-0" SQUARE X 6'-0" DEEP CONCRETE DROP INLET, JENSEN MODEL D1484848 WITH SG4848 DIP HDG HEAVY DUTY GRATE; OR APPROVED EQUAL



C.G. ELEVATIONS	
PIPE ID.	ELEVATION
INLET "A"	3031.17
INLET "B"	3030.94
OUTLET "A"	3029.03
OUTLET "B"	3030.38



NOT A PART



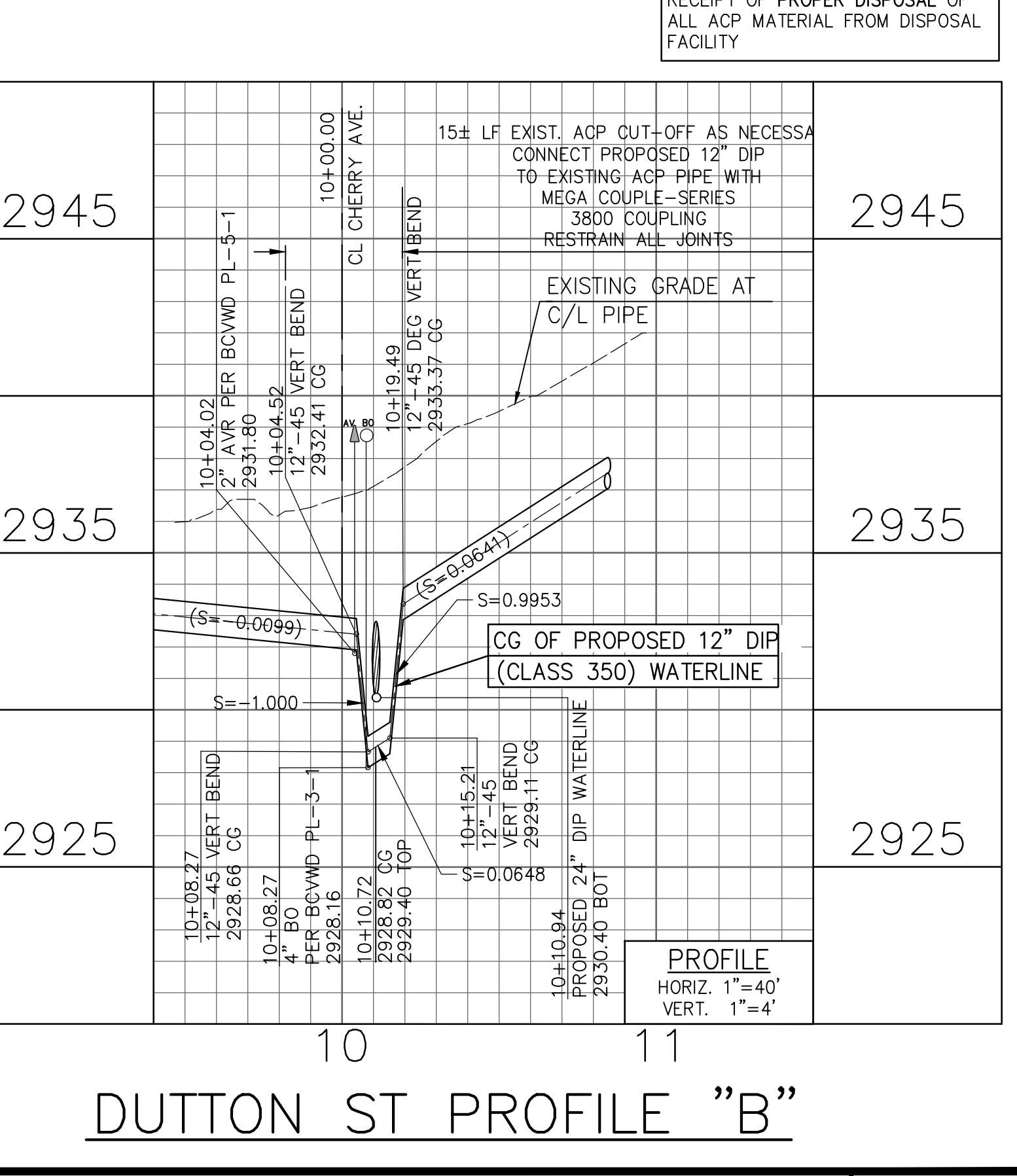
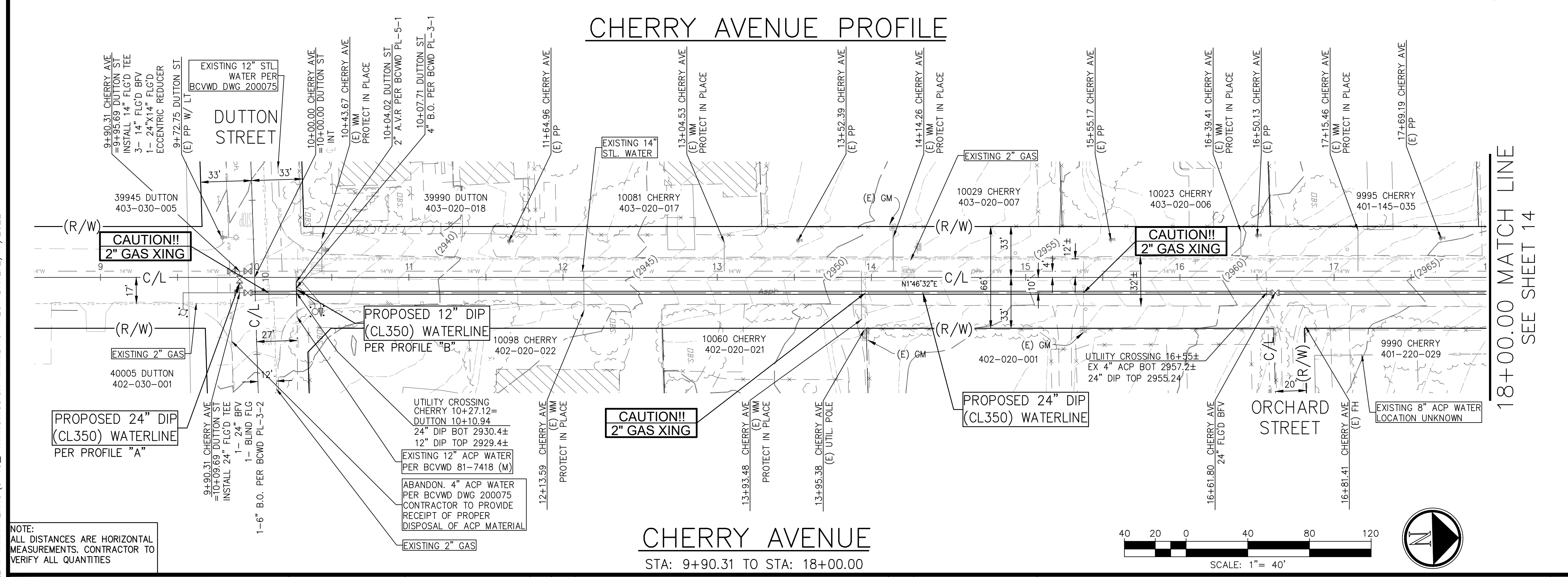
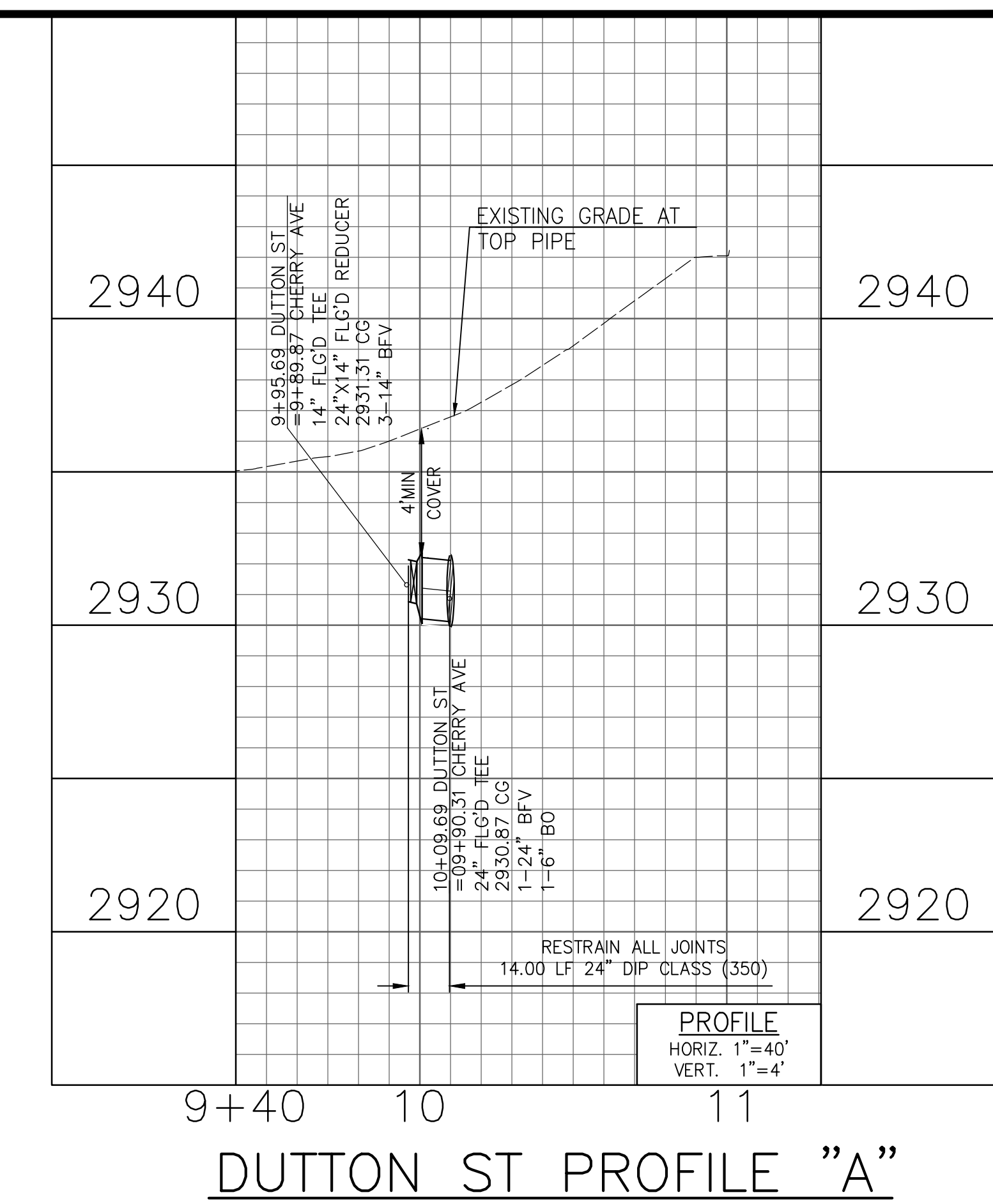
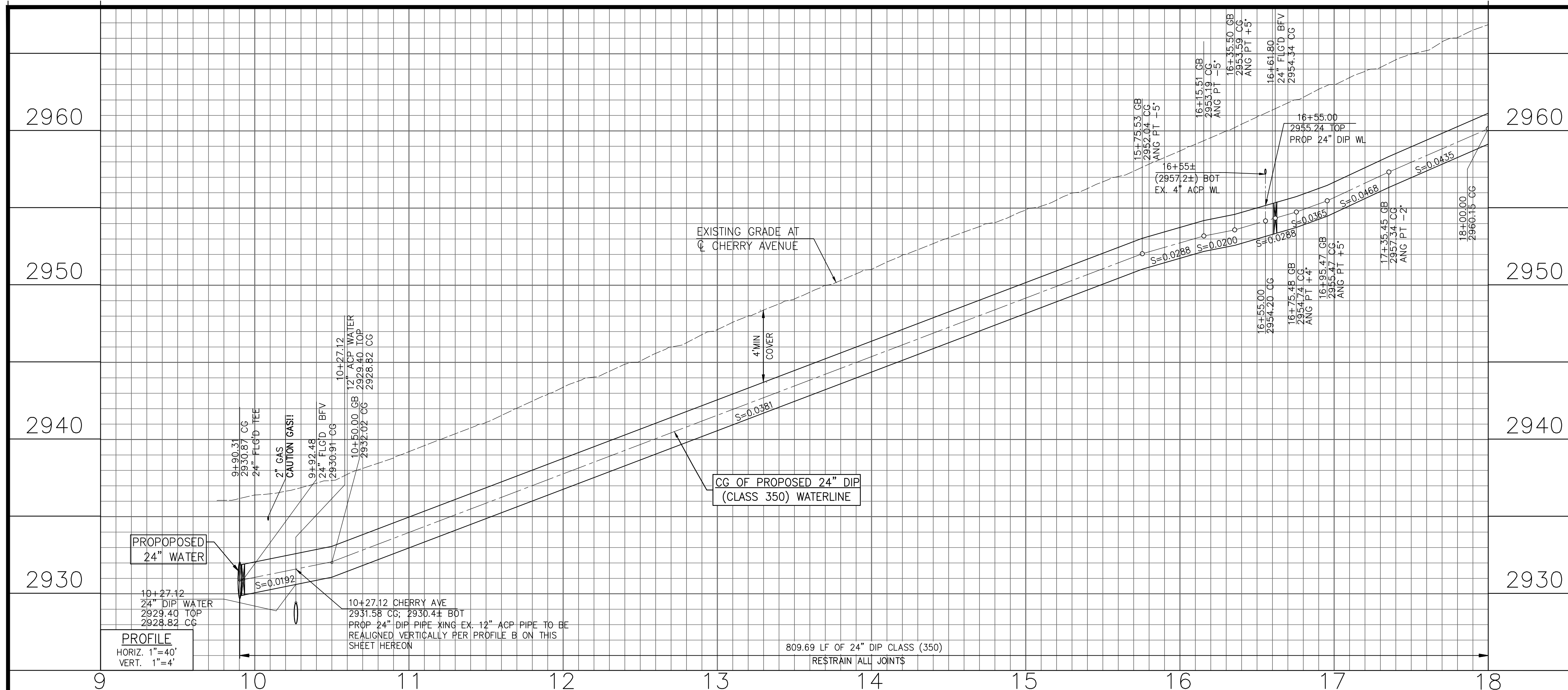
16" OVERFLOW AND 8" DRAIN PIPING
SCALE: AS NOTED

RESERVOIR INLET/OUTLET PIPING
SCALE: AS NOTED

LIQUID LEVEL INDICATOR
N.T.S.

NOTE:
ALL DISTANCES ARE HORIZONTAL MEASUREMENTS. CONTRACTOR TO VERIFY ALL QUANTITIES

	STRUCTURAL ENGINEERS CIVIL CONSULTANTS / PLANNERS SURVEYORS / GPS 151 South Grand Street • Hemet, Co 92544 TEL: (951) 652-4454 • FAX: (951) 766-8942 E-MAIL: bfox@cozad.com	JOB NO. 1705500 DESIGNED R.L.V. / D.V. DRAWN D.V. / C.H. CHECKED B.FOX APPROVED REG. NO.	BENCHMARK SEE SHEET 1 SCALE AS SHOWN	BEAUMONT-CHERRY VALLEY WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA DISTRICT ENGINEER _____ R.C.E. NO. _____ DATE _____	NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE RESERVOIR INLET & OUTLET STRUCTURES	SHEET NO. C-12 OF 15 SHTS DRAWING NO. AR/WO/PLP: 7367 / 7368
	PREPARED UNDER THE SUPERVISION OF: BRIAN D. FOX REGISTERED CIVIL ENGINEER NO. 57264		REV DATE DESCRIPTION: BY	SCALE: AS NOTED		



NOTE: CONTRACTOR TO PROVIDE RECEIPT OF PROPER DISPOSAL OF ALL ACP MATERIAL FROM DISPOSAL FACILITY

Cozad & Fox, Inc.

CIVIL / STRUCTURAL ENGINEERS
MUNICIPAL CONSULTANTS / PLANNERS
SURVEYORS / GPS

151 South Grand Street • Hemet, CA 92344
TEL: (951) 652-4454 • FAX (951) 766-8942
E-MAIL: bfox@cozadfox.com

PREPARED UNDER THE SUPERVISION OF:
BRIAN D. FOX
REGISTERED CIVIL ENGINEER NO. 57264

REGISTERED PROFESSIONAL ENGINEER
BRIAN D. FOX
No. 57264
CIVIL
STATE OF CALIFORNIA

JOB NO.	1705500
DESIGNED	R.L.V. / D.V.
DRAWN	D.V. / C.H.
CHECKED	B.FOX
APPROVED	
REG. NO.	

BENCHMARK	SEE SHEET 1
SCALE	AS SHOWN
DISTRICT ENGINEER	
R.C.E. NO.	
DATE	

BEAUMONT-CHERRY VALLEY WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA

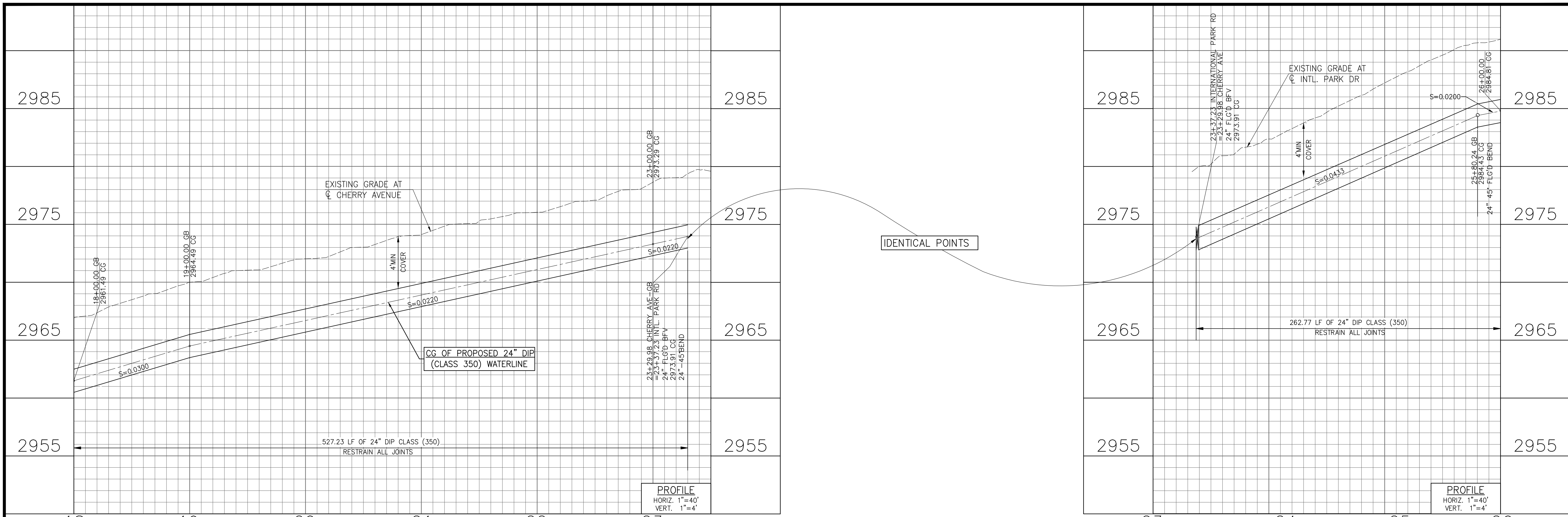
SCALE: 1" = 40'

DISTRICT ENGINEER _____ R.C.E. NO. _____ DATE _____

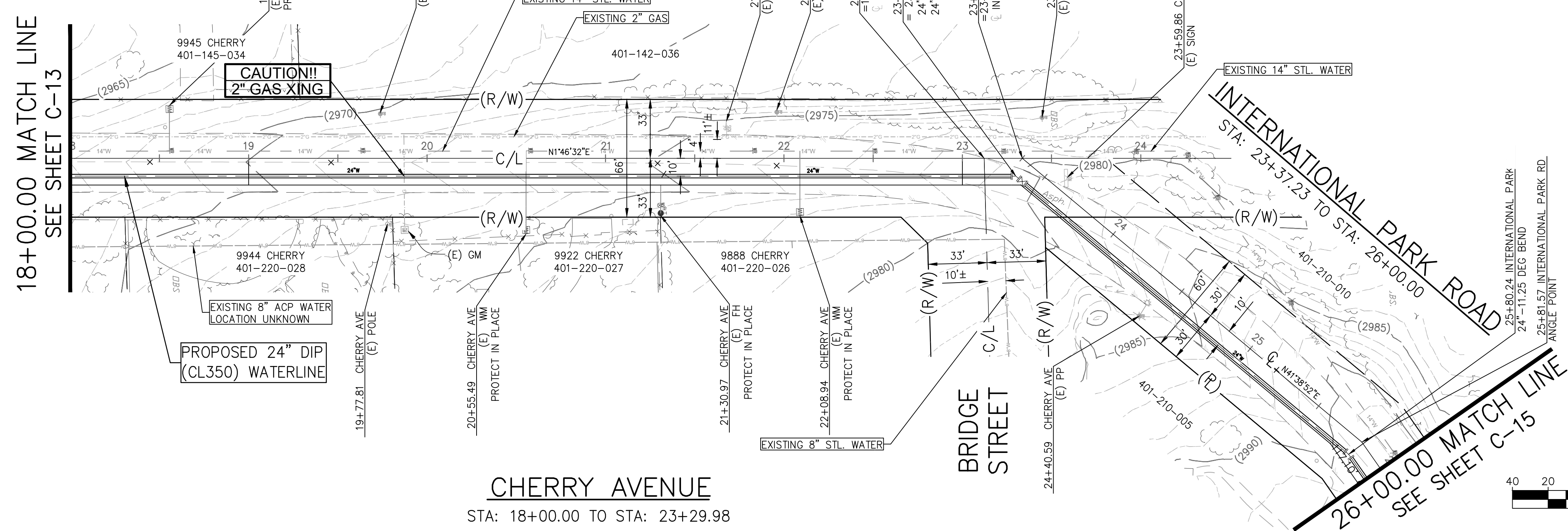
NOBLE WATER STORAGE TANK II AND TRANSMISSION PIPELINE

PLAN AND PROFILE
TRANSMISSION MAIN (CHERRY AVENUE)
STA 9+00 TO STA 18+00

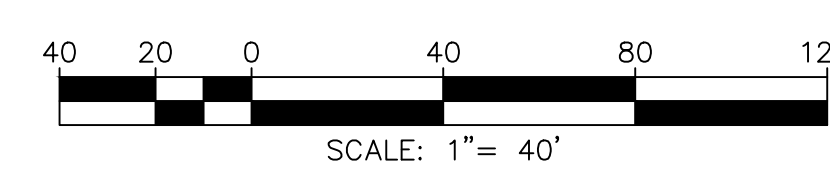
SHEET NO. C-13 OF 15 SHTS DRAWING NO. AR/WO/PLP: 7367 / 7368



CHERRY AVENUE INTERNATIONAL PARK ROAD



CHERRY AVENUE
STA: 18+00.00 TO STA: 23+29.98



NOTE:
ALL DISTANCES ARE HORIZONTAL
MEASUREMENTS. CONTRACTOR TO
VERIFY ALL QUANTITIES

Cozad & Fox, Inc.
CIVIL / STRUCTURAL ENGINEERS
MUNICIPAL CONSULTANTS / PLANNERS
SURVEYORS / GPS
151 South Grand Street • Hemet, CA 92544
TEL: (951) 652-4454 • FAX (951) 766-8942
E-MAIL: bfox@cozad.com

PREPARED UNDER THE SUPERVISION OF:
BRIAN D. FOX
REGISTERED CIVIL ENGINEER NO. 57264



JOB NO.	1705500
DESIGNED	R.L.V. / D.V.
DRAWN	D.V. / C.H.
CHECKED	B.FOX
APPROVED	
REG. NO.	

REV	DATE	DESCRIPTION	BY

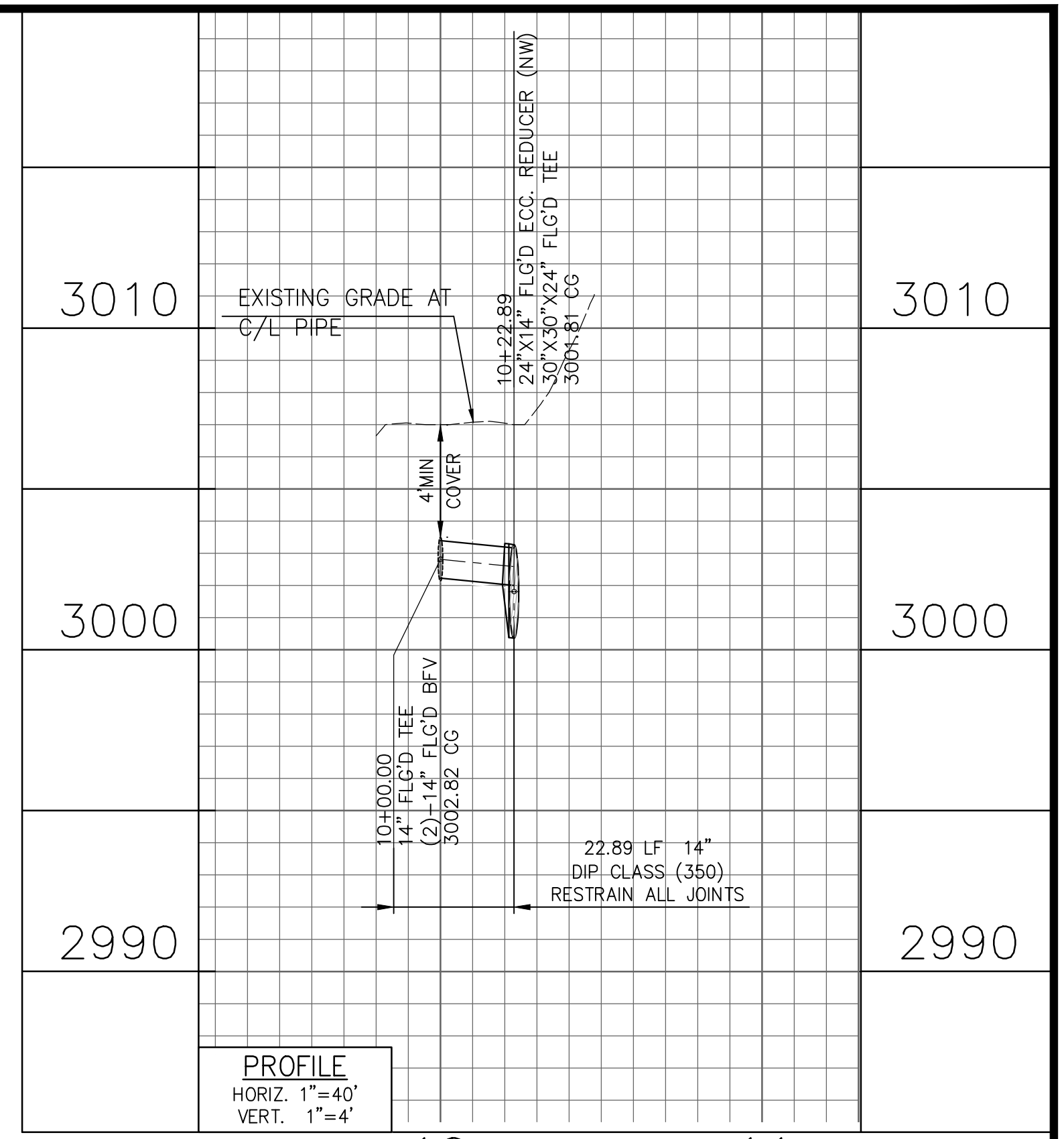
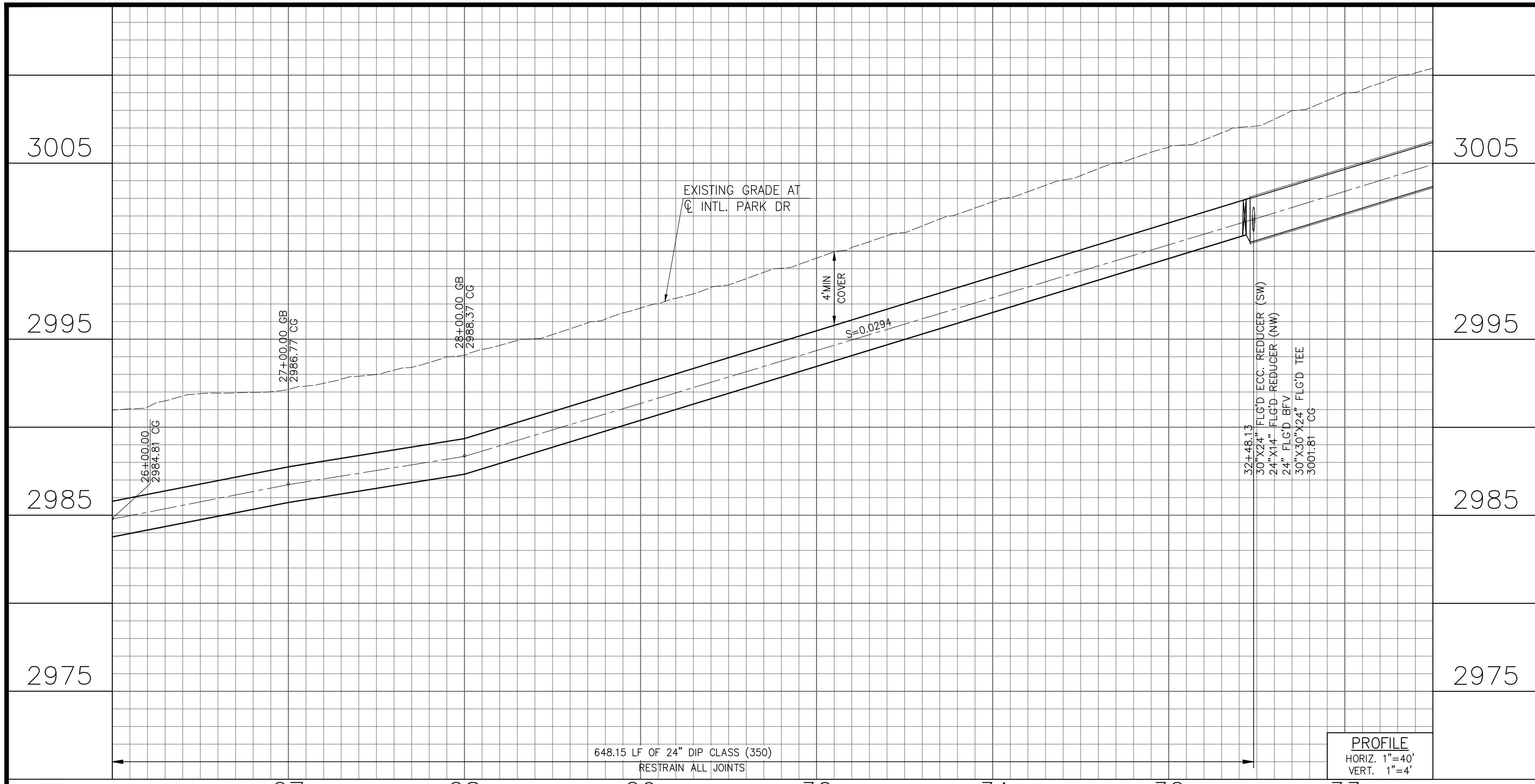
BENCHMARK	SEE SHEET 1
SCALE	AS SHOWN

BEAUMONT-CHERRY VALLEY WATER
DISTRICT RIVERSIDE COUNTY, CALIFORNIA

DISTRICT ENGINEER _____ R.C.E. NO. _____ DATE _____

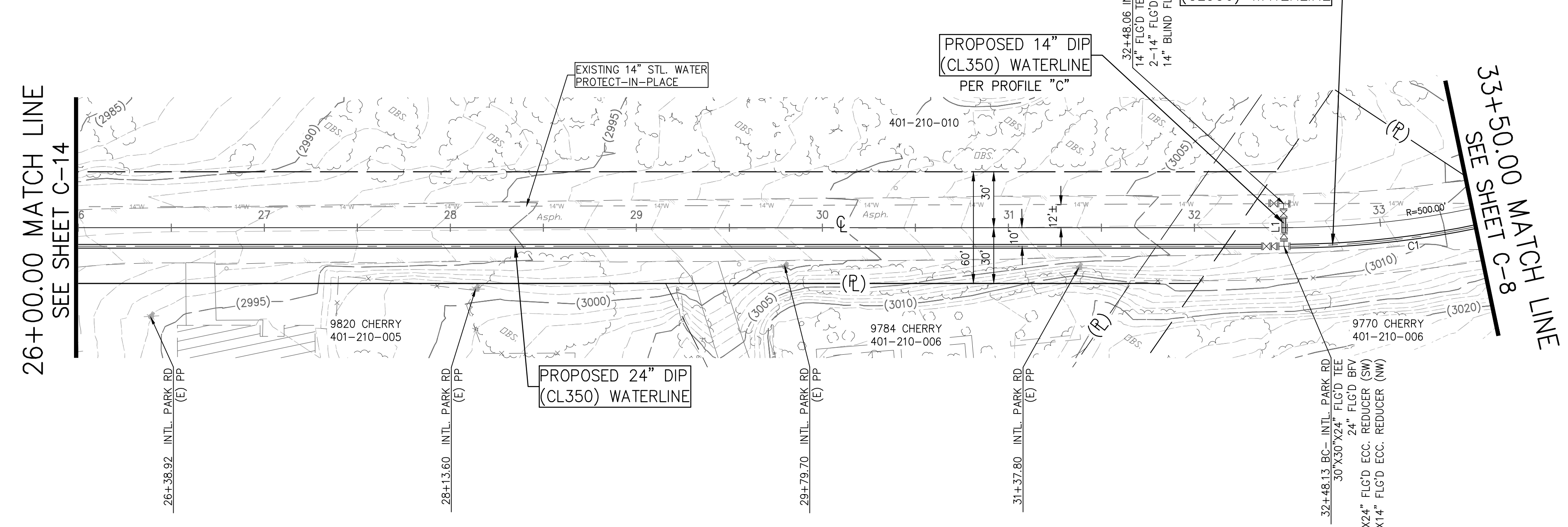
NOBLE WATER STORAGE TANK II
AND TRANSMISSION PIPELINE
PLAN AND PROFILE
TRANSMISSION MAIN (CHERRY AVENUE)
STA 18+00 TO STA 26+00

SHEET NO.	C-14
OF 15 SHTS	
DRAWING NO.	
AR/WO/PLP:	7367 / 7368

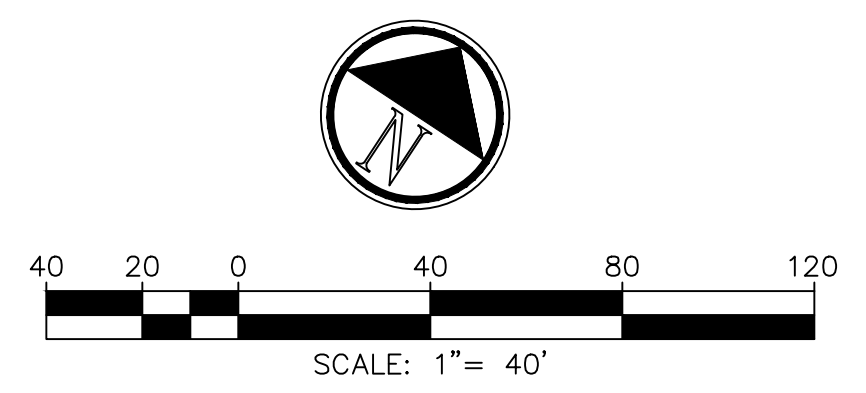


INTERNATIONAL PARK ROAD
PROFILE "C"

INTERNATIONAL PARK ROAD PROFILE



LINE AND CURVE DATA			
L#/C#	LENGTH	BEARING/DELTA	RADIUS
L1	22.89	N33° 22' 46.01"W	
C1	142.87	16.05	510.00



INTERNATIONAL PARK ROAD
STA: 26+00.00 TO STA: 33+50

NOTE:
ALL DISTANCES ARE HORIZONTAL
MEASUREMENTS. CONTRACTOR TO
VERIFY ALL QUANTITIES

Cozad & Fox, Inc.
CIVIL / STRUCTURAL ENGINEERS
MUNICIPAL CONSULTANTS / PLANNERS
SURVEYORS / GPS

151 South Grand Street • Hemet, CA 92544
TEL: (951) 652-4454 • FAX: (951) 766-8942
E-MAIL: bfox@cozad.com

PREPARED UNDER THE SUPERVISION OF:
BRIAN D. FOX
REGISTERED CIVIL ENGINEER NO. 57264



JOB NO. 1705500
DESIGNED R.L.V. / D.V.
DRAWN D.V. / C.H.
CHECKED B.FOX
APPROVED
REG. NO.

REV	DATE	DESCRIPTION	BY

BENCHMARK
SEE SHEET 1
SCALE
AS SHOWN

**BEAUMONT-CHERRY VALLEY WATER
DISTRICT RIVERSIDE COUNTY, CALIFORNIA**

DISTRICT ENGINEER _____ R.C.E. NO. _____ DATE _____

**NOBLE WATER STORAGE TANK II
AND TRANSMISSION PIPELINE**

PLAN AND PROFILE
TRANSMISSION MAIN (INTERNATIONAL PARK RD)
STA 26+00 TO STA 33+50

SHEET NO.
C-15
OF 15 SHTS
DRAWING NO.
AR/WO/PLP:
7367 / 7368

SAMPLE PROJECT 2:

**2850 PRESSURE ZONE TO 3040 PRESSURE ZONE BOOSTER PUMP STATION AT
VINELAND TANK SITE**

The District is currently in the preliminary design process of a booster pump station from the District's 2850 Pressure Zone to 3040 Pressure Zone. The District anticipates siting the booster pump station at the existing Vineland Tanks site, located along Vineland Street, west of Noble Street in the community of Cherry Valley.

The District will require a complete site topographical survey of the existing site, including all existing onsite facilities (storage tanks, site piping, etc.). Said survey will be used for the siting and completion of the final design of the Booster pumping station.

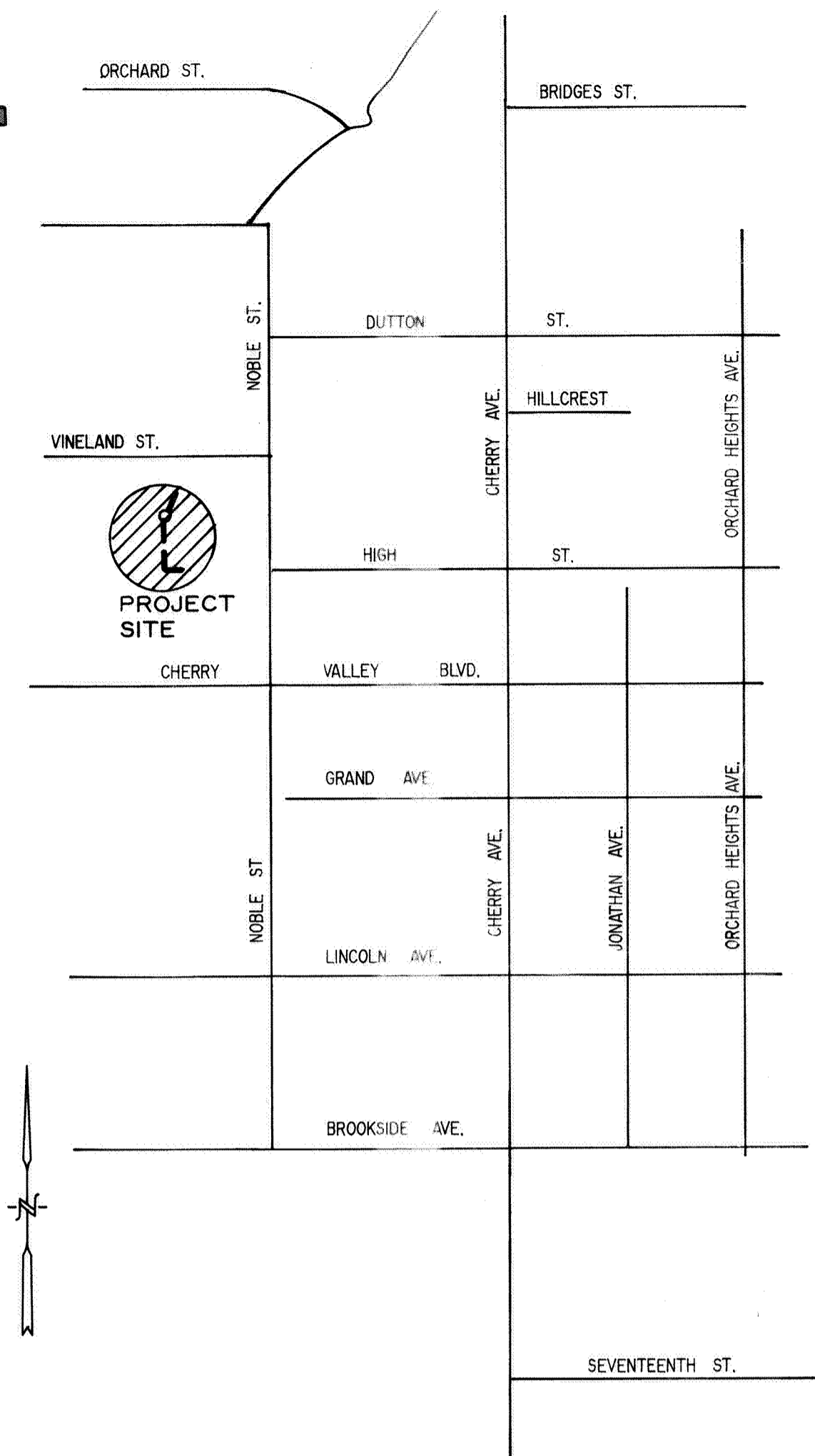
See the attached plans for the Vineland Street Reservoir, Vineland II Tank, and Vineland III Tank for reference.

BEAUMONT-CHERRY VALLEY WATER DISTRICT

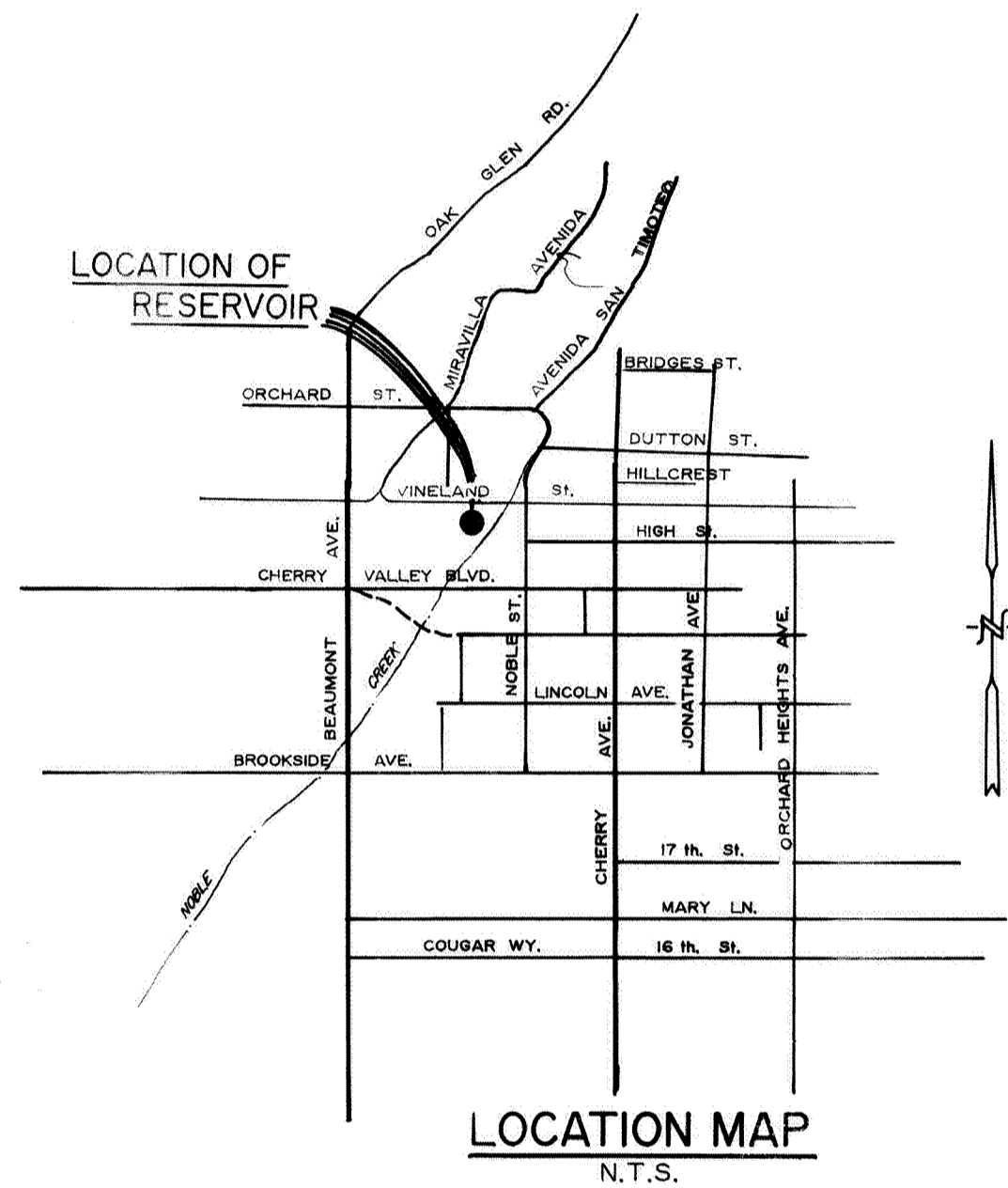
RIVERSIDE COUNTY, CALIFORNIA

PLANS FOR THE CONSTRUCTION OF THE

VINELAND STREET RESERVOIR



VICINITY MAP
N.T.S.



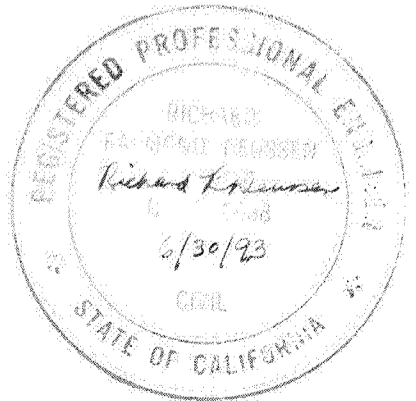
LOCATION MAP
N.T.S.

BOARD OF DIRECTORS

- | | |
|----------------|-----------------|
| ROLAND RUSSELL | PRESIDENT |
| GERALD BREY | VICE PRESIDENT |
| GARY MCKENZIE | DIRECTOR |
| GEORGE MOLNAR | DIRECTOR |
| PETER GRIMES | DIRECTOR |
| CHUCK BUTCHER | GENERAL MANAGER |

INDEX TO DRAWINGS

- G - 1 TITLE SHEET AND INDEX TO DRAWINGS
- G - 2 ABBREVIATIONS, LEGEND AND GENERAL NOTES
- C - 1 PLOT AND GRADING PLAN
- C - 2 MISCELLANEOUS DETAILS SHT. 1
- C - 3 MISCELLANEOUS DETAILS SHT. 2
- C - 4 MISCELLANEOUS DETAILS SHT. 3



NO.	DATE	REVISIONS	BY	PROJECT NO.	DATE	BCVWD APPROVED BY:
				PE 100,24		 Date NOV. 03, 1989
				DESIGNED BY D. F. SANTOS	11 - 89	
				DRAWN BY D. F. SANTOS	11 - 89	
				CHECKED BY R. R. DEUSSEN	11 - 89	
				ENGINEER R. R. DEUSSEN		
				REGISTRATION NO. 16688	DATE 11/1/89	

ENGINEERING-SCIENCE
 DESIGN • RESEARCH • PLANNING
 1605 SPRUCE ST., SUITE 200 • RIVERSIDE, CALIFORNIA 92507
 OFFICES IN PRINCIPAL CITIES

BEAUMONT-CHERRY VALLEY WATER DISTRICT
 RIVERSIDE COUNTY, CALIFORNIA

VINELAND STREET RESERVOIR
 TITLE SHEET AND INDEX TO DRAWINGS

SCALE NONE
 SHEET NO. G-1
 FILE NO. 400030

ABBREVIATIONS

△ OR ✕	ANGLE	INV	INVERT
#	AT	L	LENGTH
A. C.	ASPHALTIC CONCRETE	LG	LONG
APPROX.	APPROXIMATE	MAT'L	MATERIAL
AR	AS REQUIRED	MAX	MAXIMUM
A.S.T.M.	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MG	MILLION GALLONS
AWWA	AMERICAN WATER WORKS ASSOCIATION	MIN	MINIMUM
B. C.	BEGIN CURVE	N	NORTH
B. F.	BLIND FLANGE	NEOPR	NEOPRENE
B. F. V.	BUTTERFLY VALVE	NO.	NUMBER
B. O. P.	BOTTOM OF PIPE	N. P. T.	NATIONAL PIPE THREAD
B. V. C.	BEGIN VERTICAL CURVE	N. T. S.	NOT TO SCALE
CL	CENTER LINE	OD	OUTSIDE DIAMETER
CALTRANS	CALIFORNIA DEPARTMENT OF TRANSPORTATION	O. S. H. A. OR OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
C. M. P.	CORRUGATED METAL PIPE	%	PERCENT
C.L. & C.	CEMENT LINED & COATED	PAR	PARCEL
CONC.	CONCRETE	P. E.	PLANE END
CONN.	CONNECTION	P. M.	PARCEL MAP
CONT.	CONTINUATION	P. P.	POWER POLE
COR.	CORNER	P. O. C.	POINT ON CURVE
∅	DIAMETER	P. V. I.	POINT OF INTERSECTION, VERTICAL CURVE
D. I. P.	DUCTILE IRON PIPE	PVT/PVMT/PAVT	PAVEMENT
DWG.	DRAWING	R	RADIUS
E	EAST	RED	REDUCER
EA	EACH	REF	REFERENCE
EF	EACH FACE	REQD	REQUIRED
E. C.	END OF CURVE	RT	RIGHT
E. M. W. D.	EASTERN MUNICIPAL WATER DISTRICT	R/W OR R. O. W.	RIGHT OF WAY
EL. OR ELEV.	ELEVATION	S	SLOPE OR SOUTH
E. V. C.	END OF VERTICAL CURVE	SHT	SHEET
EXIST.	EXISTING	S. R.	SHORT RADIUS
F. G.	FINISHED GRADE	SQ.	SQUARE
F. B. OR FB	FLAT BAR	STD	STANDARD
F. H.	FIRE HYDRANT	STA	STATION
FL. OR FL	FLOW LINE	T	TANGENT OR TELEPHONE
FLG.	FLANGED	TYP.	TYPICAL
F. S.	FINISHED SURFACE	V. C.	VERTICAL CURVE
FT.	FEET	VERT	VERTICAL
G. B.	GRADE BREAK	W	WEST / WATER / WITH
GALV.	GALVANIZE	W. J.	WELDED JOINT
G. V.	GATE VALVE	W. M.	WATER METER
HORL/HORIZ.	HORIZONTAL	WT	WEIGHT
HP	HIGH POINT	N.J.C.	NOT IN CONTRACT
H. W. L.	HIGH WATER LEVEL	SS	STAINLESS STEEL
HWY	HIGHWAY		

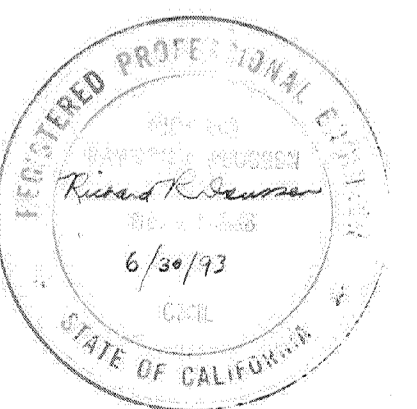
GENERAL NOTES

- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING ON-SITE AND /OR OFF-SITE FACILITIES RESULTING FROM HIS OPERATIONS.
- PIPELINE STATIONS ARE ALONG THE CENTERLINE OF THE PIPELINE.
- ALL PIPE APPURTENANCES SHALL HAVE A PRESSURE RATING EQUAL TO OR GREATER THAN THE PIPE TO WHICH THEY JOIN.
- LINEAR FEET OF PIPE SHOWN ON THE DRAWINGS ARE HORIZONTAL MEASUREMENTS AND EXTEND THROUGH VALVES, BENDS AND OTHER APPURTENANCES.
- ALL BENDS SHALL BE FABRICATED IN CONFORMANCE WITH THE LATEST AWWA STD. C 208 DIMENSIONS FOR STEEL WATER PIPE FITTINGS or AWWA C 110 FOR DUCTILE IRON PIPE.
- CML & C PIPE SHALL BE A MINIMUM OF CLASS 150 CONFORMING TO AWWA STD. SPECIFICATION C-205 AND BCVWD STANDARDS.
- NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS AND OTHER DELETERIOUS MATERIAL.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE FOR ALL FINISH GRADE SURFACES SUCH THAT PONDING OR EROSION SHALL NOT TAKE PLACE.
- STRAIGHT GRADE SHALL BE PERFORMED BETWEEN SPOT ELEVATIONS.
- D. I. PIPE SHALL BE A MINIMUM OF CL 50 CONFORMING TO AWWA STD. C 110.
- MINIMUM EARTH COVER SHALL BE 36 INCHES UNLESS OTHERWISE SHOWN ON DRAWINGS.
- CONTRACTOR SHALL INCLUDE IN HIS BID PRICE COSTS FOR CONSTRUCTION ACCESS TO AND FROM THE SITES.
- WHERE SURVEY MONUMENTS EXIST, SUCH MONUMENTS SHALL BE PROTECTED OR SHALL BE REFERENCED AND RESET, PURSUANT TO BUSINESS AND PROFESSIONS CODE, SECTIONS 8700 TO 8805 (LAND SURVEYOR'S ACT).
- CONTRACTOR SHALL OBTAIN AND PAY FOR THE ENCROACHMENT PERMITS AS LISTED BELOW:
A--RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT (RCFCWCD)

LEGEND

— — — — —	CENTER LINE	(A)	CURVE DESIGNATION	● 1394.50	SPOT GRADE ELEVATION
— · — · — · —	PROPERTY LINE OR EASEMENT	— W — W —	EXISTING WATER MAIN	● 1393.60	EXIST. SPOT GRADE ELEVATION
— — —	FLOW LINE EXIST. DITCH	— — —	GATE VALVE WITH BOX	○ 2124	INVERT ELEVATION OF PROPOSED MAIN
— — — — —	FLOW LINE	— — —	DRESSER COUPLING	▨	GRAVEL
- - - - - 1940	EXISTING CONTOUR LINE	— — —	REDUCER		
- - - - - 1950	NEW CONTOUR LINE	— — —	BUTTERFLY VALVE		
∇ ∇ ∇ ∇	CUT SLOPE	— — —	FLANGE FITTING		
∇ ∇ ∇ ∇	FILL SLOPE	▨	CONCRETE		
— x — x —	NEW FENCE	— — — — —	SUBGRADE OR GROUND LINE		
○ — ○	UTILITY POLE & TIE WIRE	— G — G —	EXISTING GAS LINE		
○ — ○	FIRE HYDRANT	— E — E —	EXISTING ELECTRICAL CONDUIT		
— M —	DOUBLE SWING GATE	— SD — SD —	EXISTING STORM DRAIN		
— S —	SINGLE SWING GATE	B.O.	BLOW OFF ASSEMBLY		
— B-2 —	PROPOSED WATER PIPE LINE	↓ AVR	AIR AND VACUUM ASSEMBLY		
⊕	SOIL BORING TEST	—) (—	BELL AND SPIGOT FITTING		

BENCHMARK:
RIVERSIDE COUNTY B. M. C - 2 - 4 EL. 2758.083
@ S.W. COR. BROOKSIDE AVE., CHERRY AVE. ON TOP OF
AND @ THE N.W. CONC. WINGWALL OF BRIDGE NO. 8033 A BRASS
DISC. MKD. C - 2 - 4.65

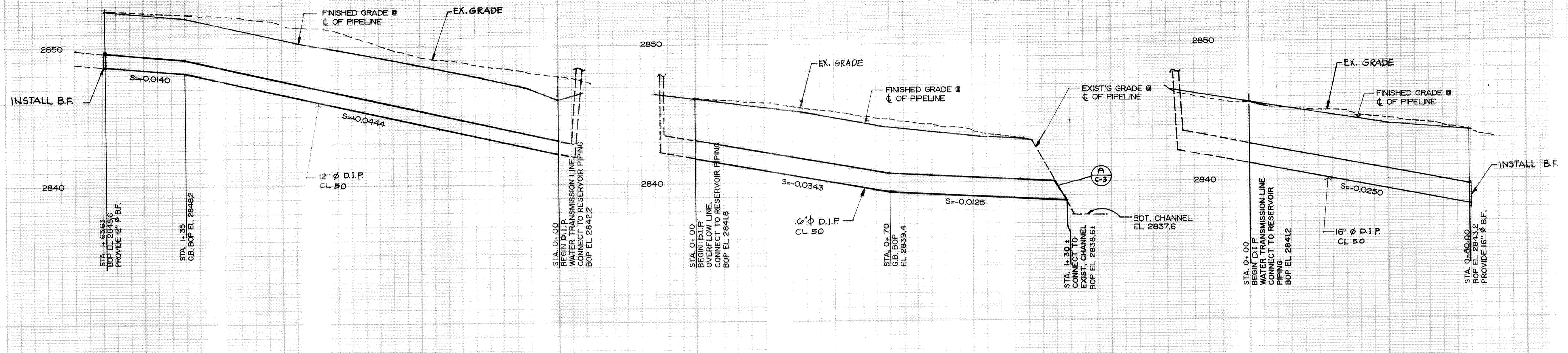


NO.	DATE	REVISIONS	BY	PROJECT NO.	DATE	BCVWD APPROVED BY
				PE-100.24		
				DESIGNED BY A. MAGHSOUDLOO	11-89	
				DRAWN BY D. F. SANTOS	11-89	
				CHECKED BY R. R. DEUSSEN	11-89	
				ENGINEER <i>[Signature]</i>		
				REGISTRATION NO. 16688	DATE 11/1/99	

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BEAUMONT-CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

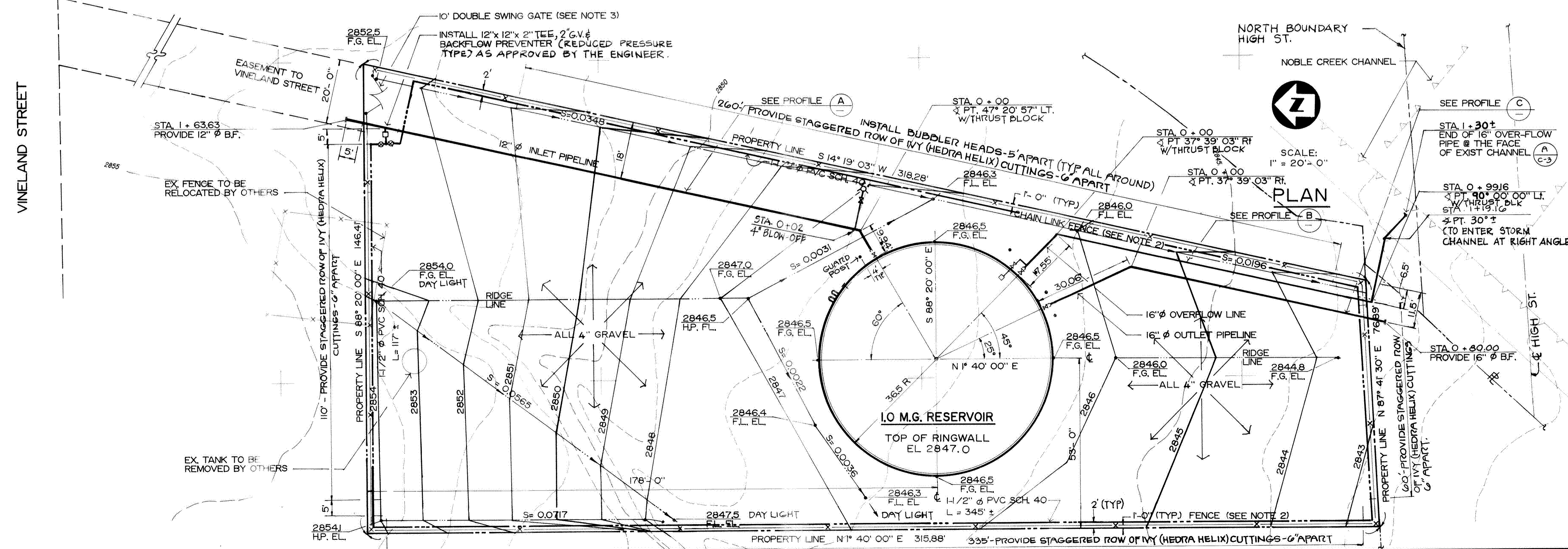
VINELAND STREET RESERVOIR	SCALE NONE
ABBREVIATIONS, LEGEND AND GENERAL NOTES	SHEET NO. G-2
	FILE NO.



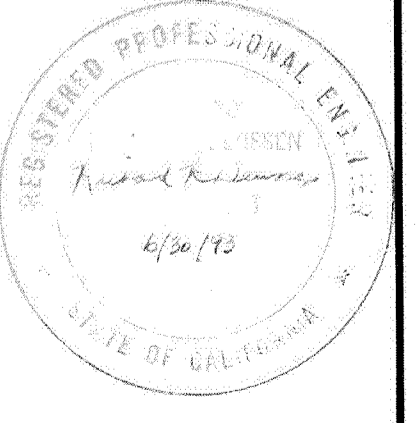
12" INLET PROFILE (A)
 SCALE:
 HORIZ. 1" = 20'
 VERT. 1" = 4'

16" OVERFLOW PROFILE (B)
 SCALE:
 HORIZ. 1" = 20'
 VERT. 1" = 4'

16" OUTLET PROFILE (C)
 SCALE:
 HORIZ. 1" = 20'
 VERT. 1" = 4'



- NOTES:**
- FOR GUARD POST DETAILS, SEE STD. DWG. 055.4.1
 - FOR DETAILS OF 6ft. CHAIN LINK FENCE WITH 3-STRANDS OF BARBED WIRE, SEE STD. DWG. 027.11.1
 - FOR DETAILS OF 10ft. DOUBLE SWING GATE, SEE STD. DWG. 027.11.2
 - THE REFERENCE CELL WATERING SYSTEM SHALL CONSIST OF A 3/4" SCH. 40 PVC PIPE W/ 1/2" BRANCH TO EACH CELL. THE 3/4" PIPE SHALL EXTEND THROUGH A SLEEVE IN THE RING WALL, AND TERMINATE WITH A 3/4" N.P.T. MALE ADAPTER AND A BRASS FEMALE NOSE THREAD ADAPTOR. FINAL DETAILS OF UNDER TANK ENDS ARE TO BE COORDINATED WITH REFERENCE CELL MANUFACTURER.
 - ALL JOINTS ARE TO BE WELDED, FLANGED OR RESTRAINED AS APPROVED BY THE ENGINEER.



NO.	DATE	REVISIONS	BY

PROJECT NO. PE 100.24
 DESIGNED BY A. MAGHSOUDI
 DRAWN BY D. F. SANTOS
 CHECKED BY R. R. DEUSSEN
 ENGINEER [Signature]
 REGISTRATION NO. 16688 DATE 4/12/12

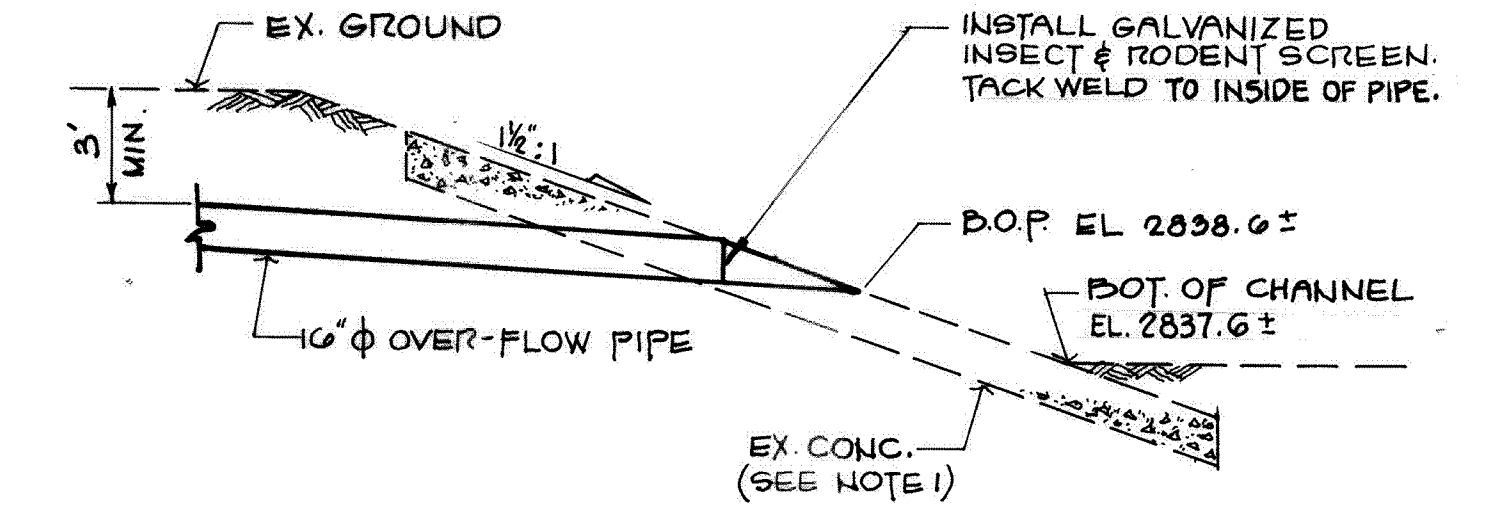
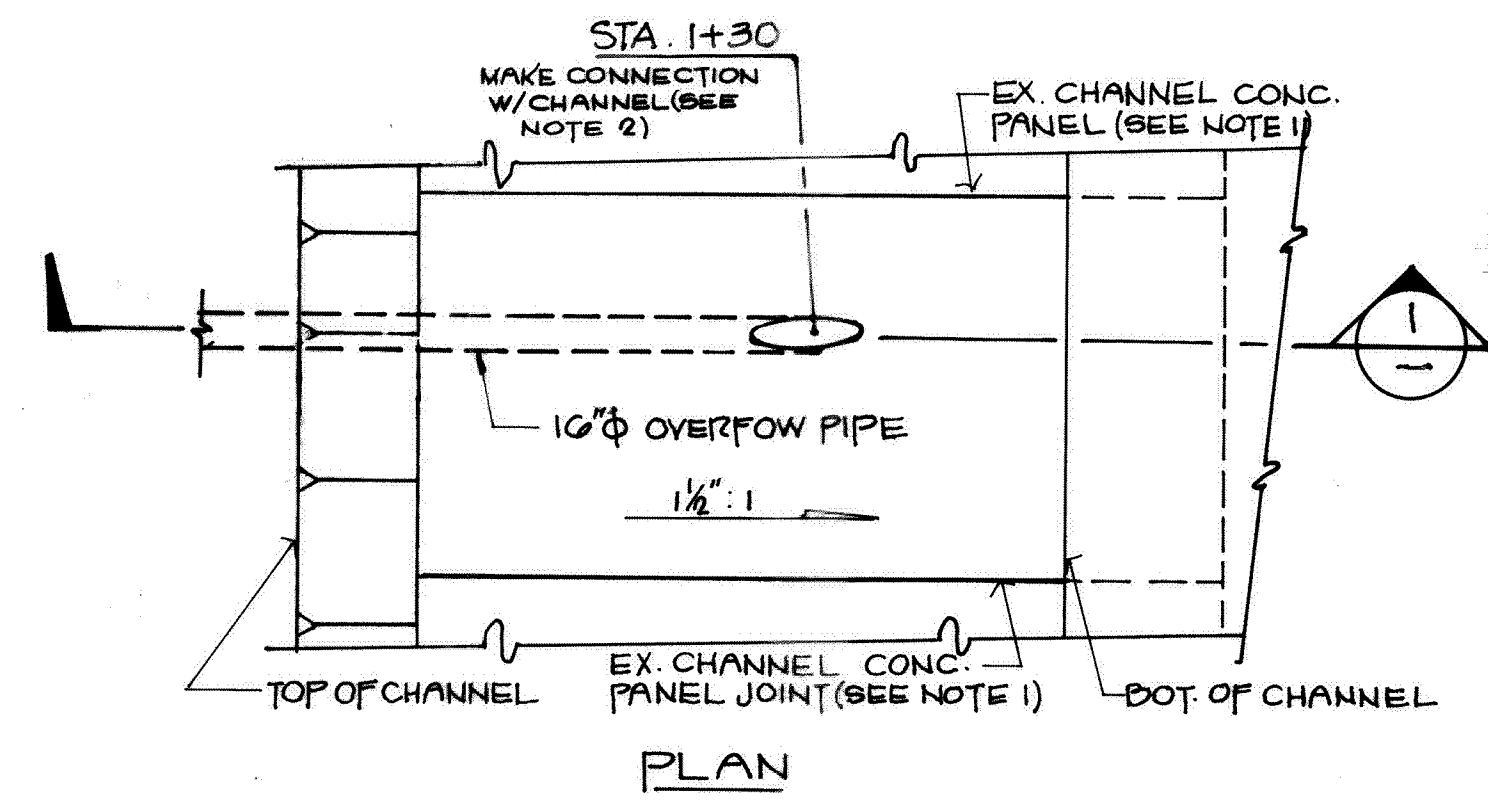
BCVWD APPROVED BY: _____

ENGINEERING-SCIENCE
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 1605 SPRUCE ST., SUITE 200 • RIVERSIDE, CALIFORNIA 92507
 OFFICES IN PRINCIPAL CITIES

BEAUMONT-CHERRY VALLEY
 WATER DISTRICT
 RIVERSIDE COUNTY, CALIFORNIA

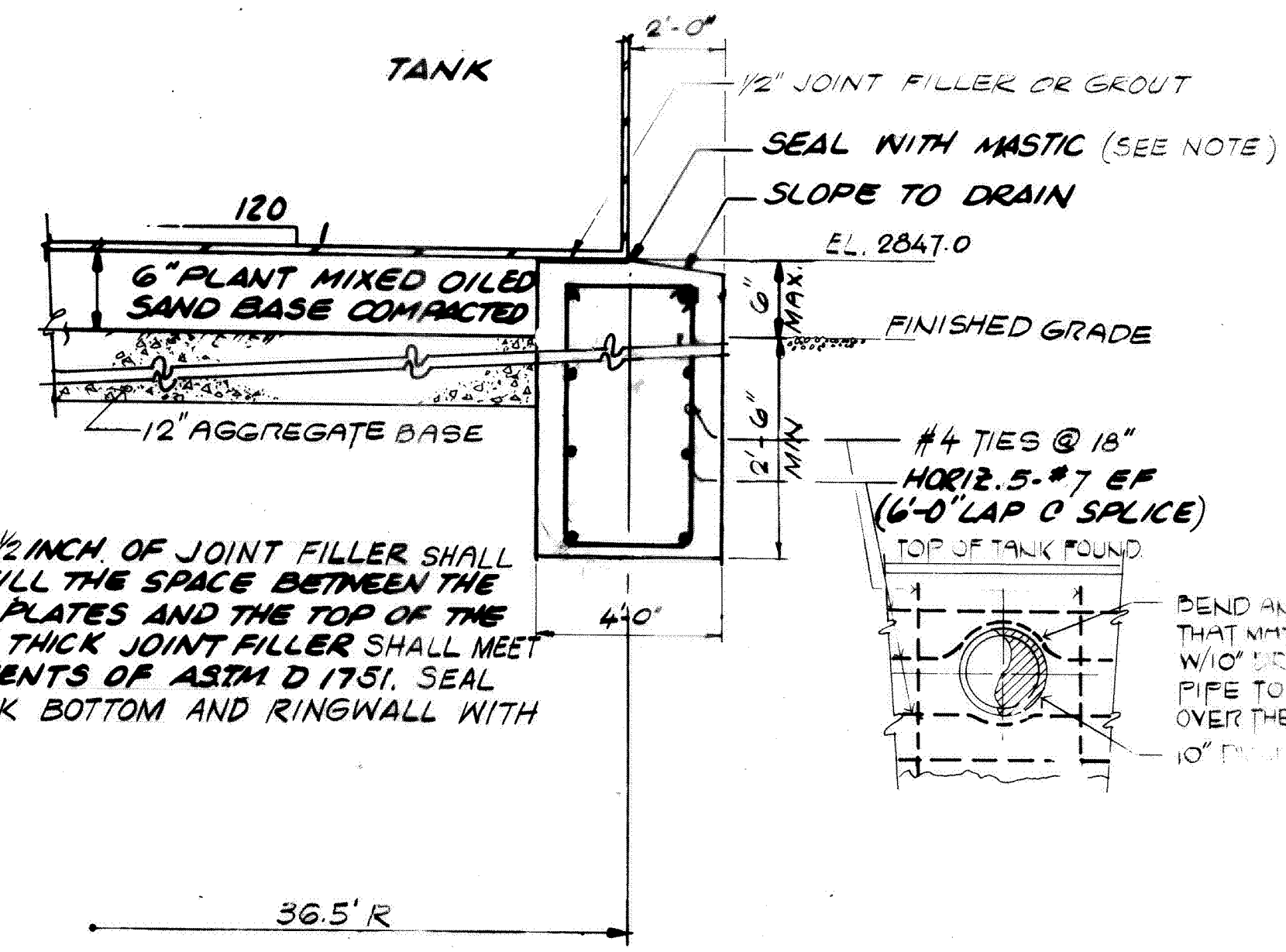
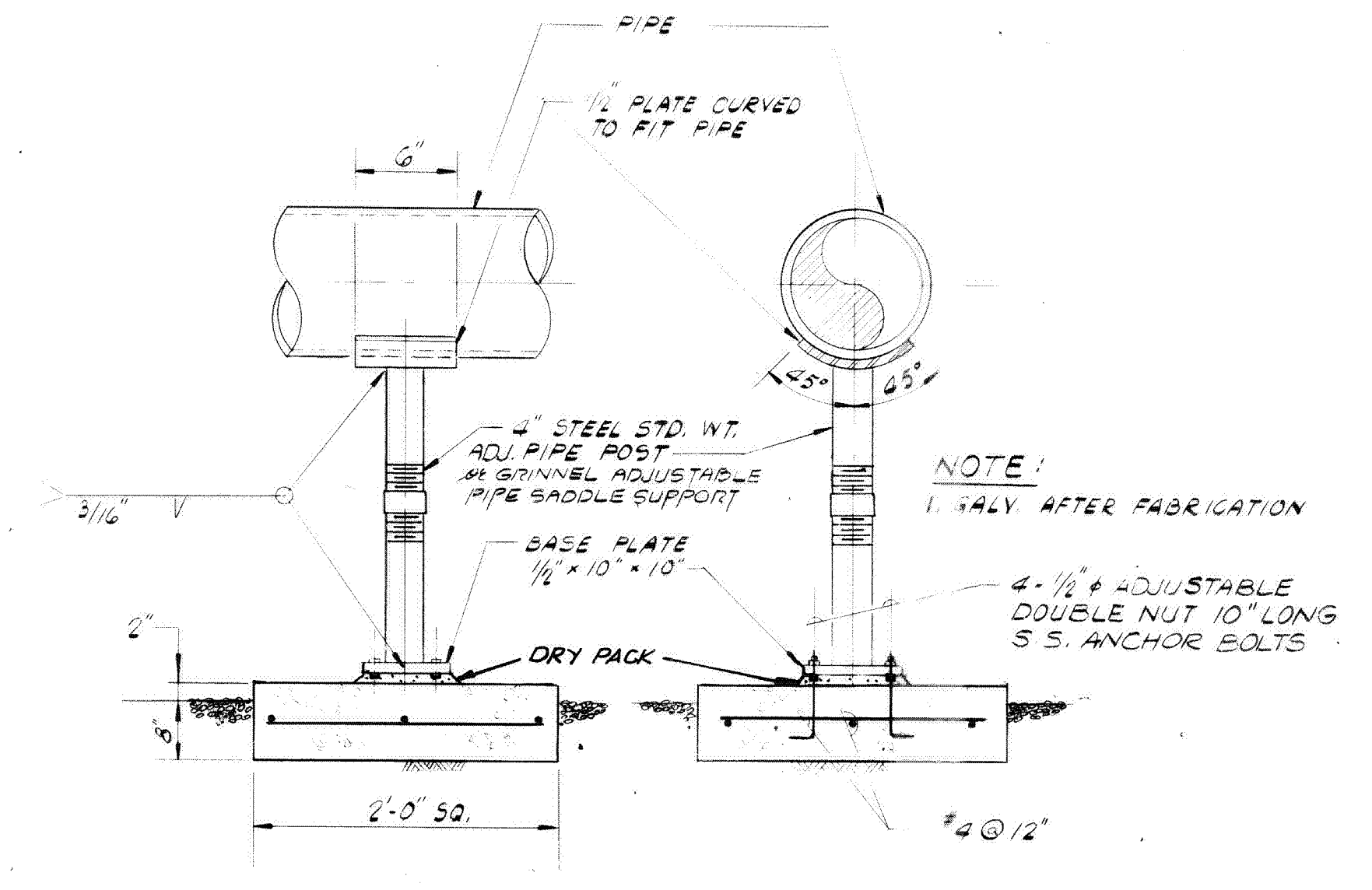
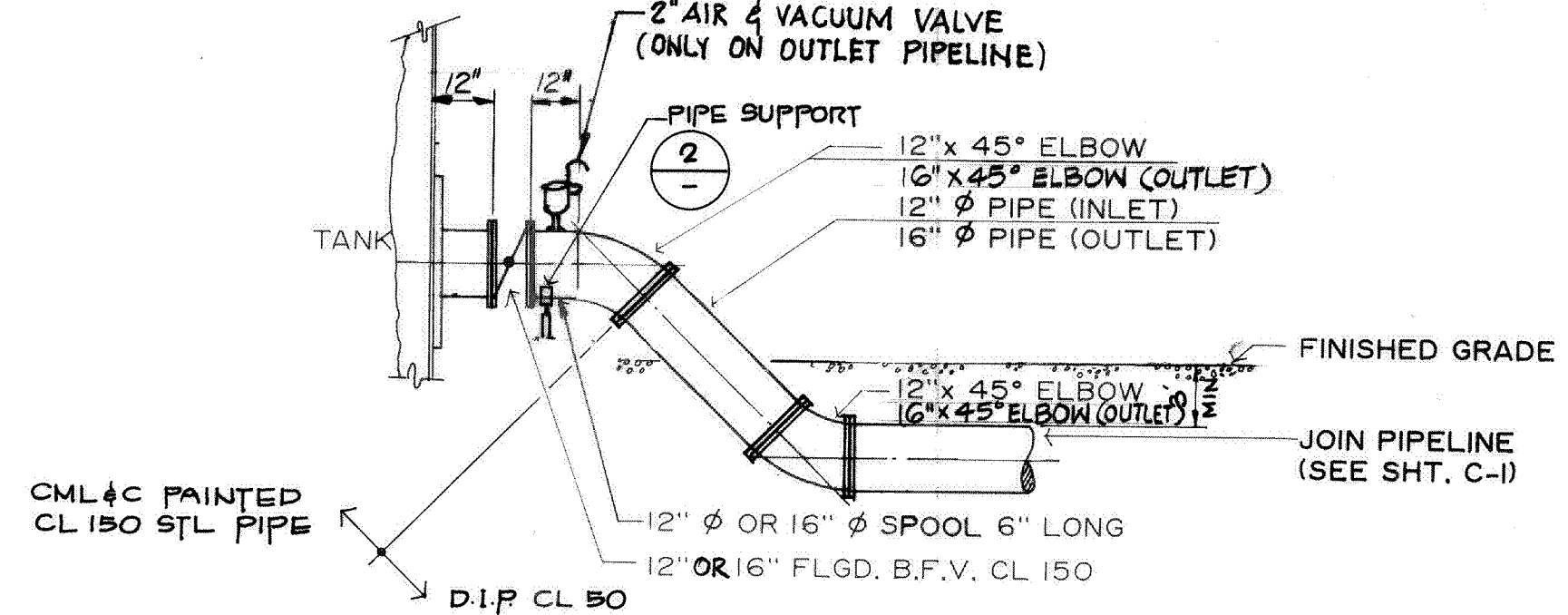
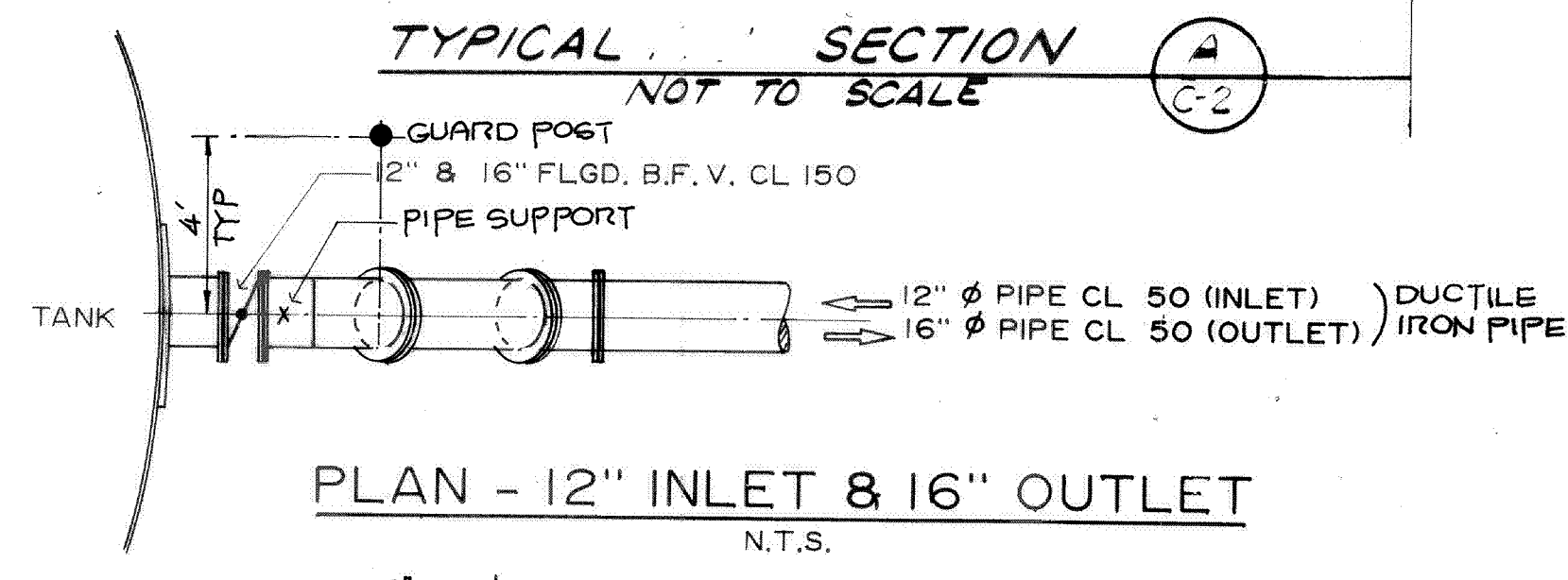
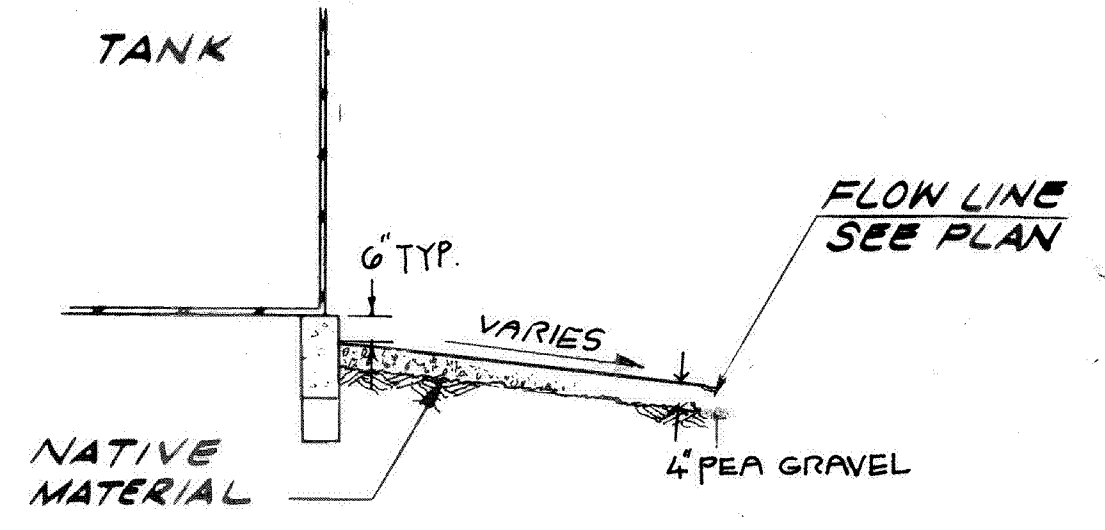
VINELAND STREET RESERVOIR
 I.O. MG RESERVOIR
 PLOT, GRADING AND PROFILE

SCALE 1" = 20' - 0"
SHEET NO. C-1
NO.



NOTE:

1. REMOVE & RECONSTRUCT ONE PANEL OF EXIST. 4" LINED CONC. CHANNEL, WHERE OVERFLOW PIPE ENTERS CHANNEL.
2. CONNECTION AT CHANNEL SHALL BE IN ACCORDANCE WITH RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT STD. DRAWING NO. JS 232 ENTITLED "JUNCTION STRUCTURE NO. 7"

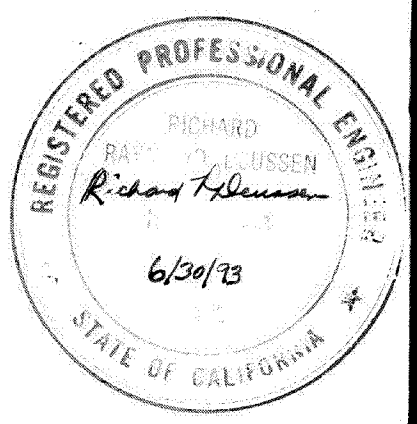


NOTE:

A MINIMUM OF 1/2 INCH OF JOINT FILLER SHALL COMPLETELY FILL THE SPACE BETWEEN THE TANK BOTTOM PLATES AND THE TOP OF THE RINGWALL. 1/2" THICK JOINT FILLER SHALL MEET THE REQUIREMENTS OF ASTM D 1751. SEAL BETWEEN TANK BOTTOM AND RINGWALL WITH MASTIC.

NOTES:

1. CONTRACTOR SHALL NOTIFY OWNER 2 WEEKS IN ADVANCE OF CONNECTION TO EXISTING MAIN. MAIN SHUT-DOWNS AND CONNECTIONS CAN ONLY BE MADE AT NIGHT. ALL COSTS TO WORK AT NIGHT SHALL BE INCLUDED IN THE BID PACKAGE.
2. CONTRACTOR SHALL NOTHOLE EXISTING MAIN IN ADVANCE OF CONNECTION AND VERIFY SIZE AND MATERIALS. A CALIBER SURVEY OF THE EXISTING PIPE SHALL BE PERFORMED TO VERIFY ROUNDNESS OF PIPE. ALL COSTS TO VERIFY THE CONNECTION TO SUIT OTHER MATERIALS AND ROUNDNESS SHALL BE INCLUDED IN THE BID PRICE.
3. ALL GATE VALVES SHALL BE RESILIENT WEDGE GATE VALVES, CLASS 150.



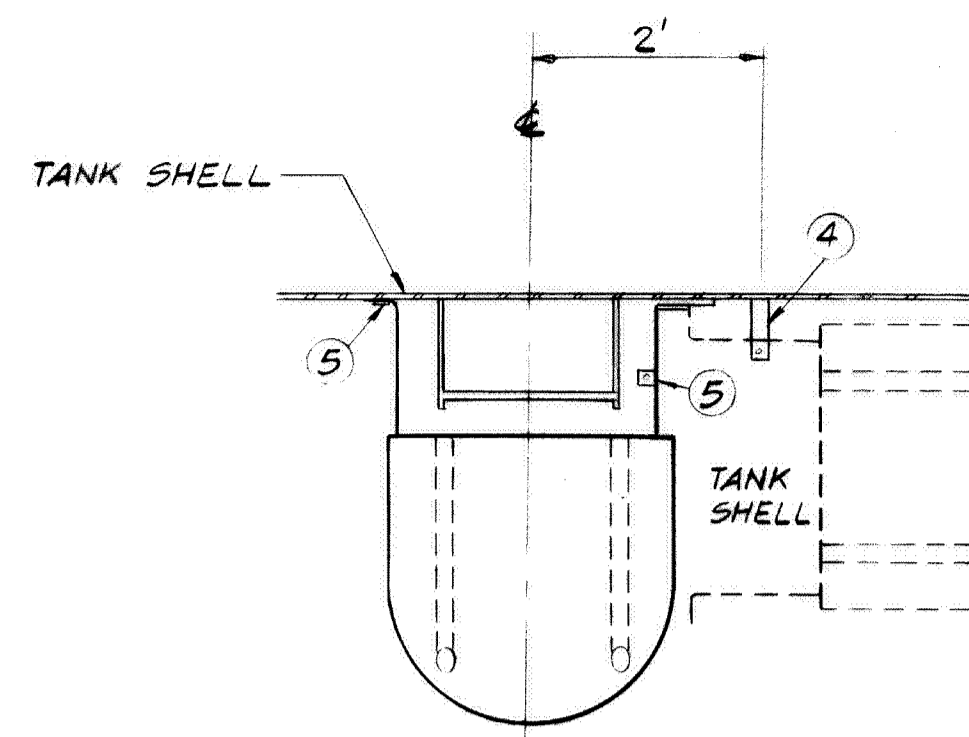
NO	DATE	REVISIONS	BY	PROJECT NO	DATE	BY/WD	APPROVED BY:
				PE 100,24			
				DESIGNED BY: A. MAGHSOUDLOO	11-89		
				DRAWN BY: D. F. SANTOS	11-89		
				CHECKED BY: R. R. DEUSSEN	11-89		
				ENGINEER: R. R. DEUSSEN			
				REGISTRATION NO: 16688			
				DATE: 11/4/89			

ENGINEERING-SCIENCE
 DESIGN • RESEARCH • PLANNING
 1805 SPRUCE ST., SUITE 200 • RIVERSIDE, CALIFORNIA 92507
 OFFICES IN PRINCIPAL CITIES

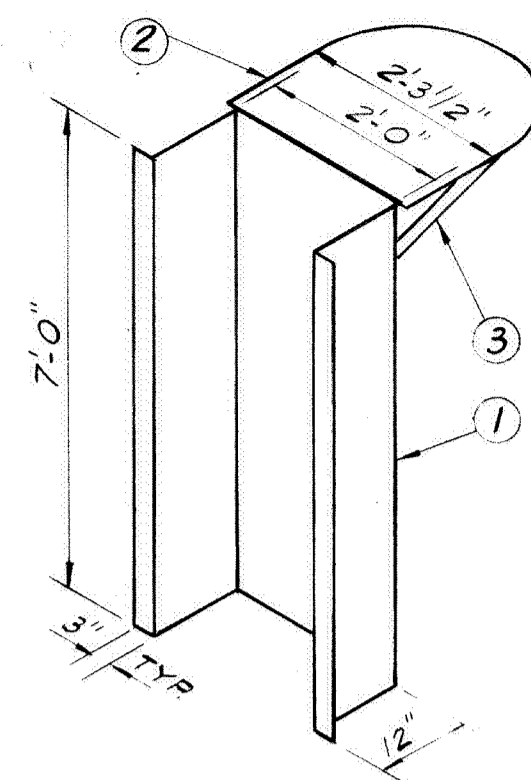
BEAUMONT - CHERRY VALLEY
 WATER DISTRICT
 RIVERSIDE COUNTY, CALIFORNIA

VINELAND STREET RESERVOIR
 MISCELLANEOUS DETAILS
 SHEET 2

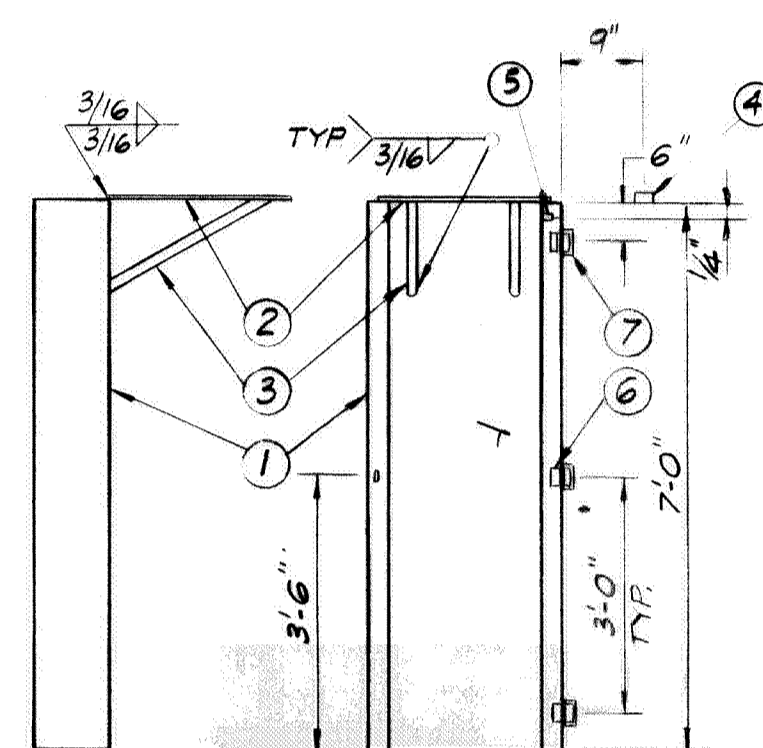
SCALE	AS NOTED
SHEET NO	C-3
FILE NO	



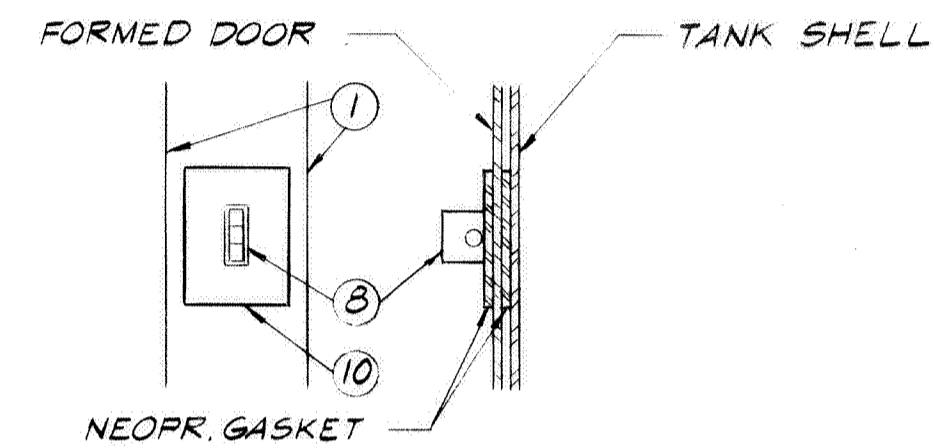
PLAN VIEW WITH PHANTOM VIEW
HOT DIP GALV. DOOR AFTER FABRICATION



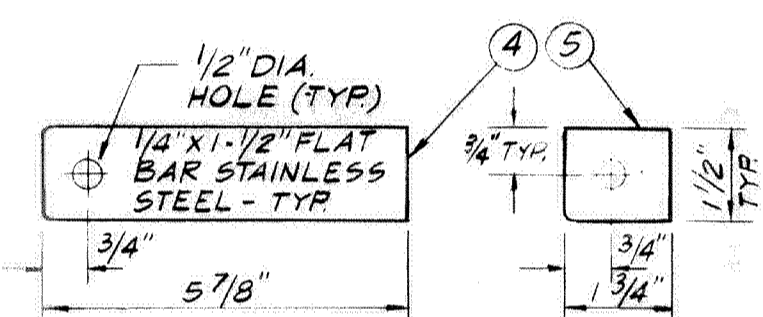
ISOMETRIC FORMING DETAIL



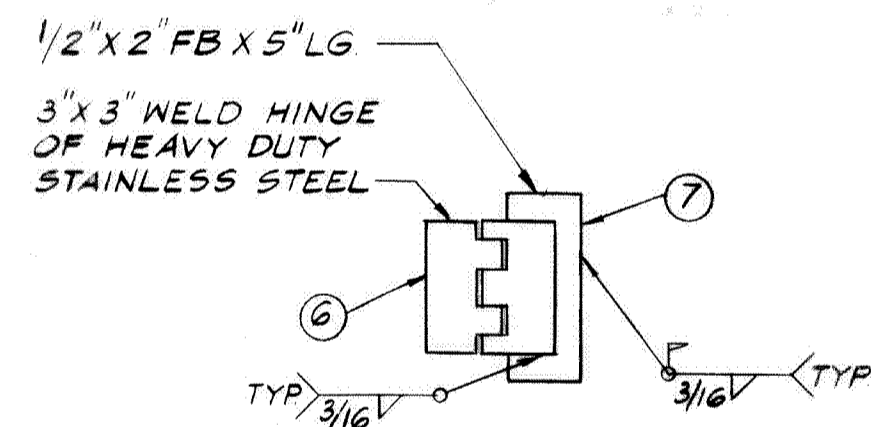
TYPICAL INSTALLATION DETAILS



DOOR LOCKING HASP DETAIL



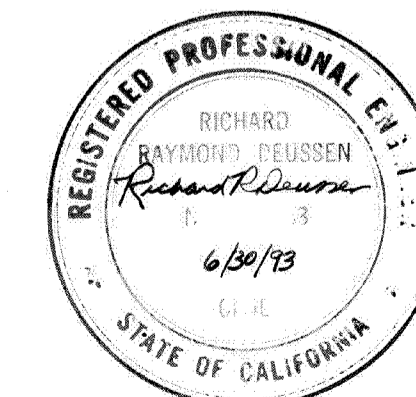
HASP ASSEMBLY DETAILS



HINGE DETAIL

MATERIAL LIST			
ITEM	DESCRIPTION	MATL	REQ'D
1	3/16" PLATE X 4'-6 1/2" X 7'-0" LG. FORMED AS SHOWN	A36	1
2	3/16" PLATE X 27 1/2" X 23 1/4" LG. CUT TO MATCH BOTTOM HOOP	A36	1
3	1 1/8" O.D. THIN WALL TUBING X 21 1/8" LG. CUT END @ 30° & 60°	A120	2
4	1/4" X 1/2" FB X 5 7/8" LG W/ HOLE AS SHOWN	SS304	1
5	1/4" X 1/2" FB X 1 3/4" LG W/ HOLE AS SHOWN	SS304	1
6	3" X 3" HEAVY DUTY BLANK WELD HINGE	SS18-8	2
7	1/2" X 2" FB X 5" LG	SS304	3
8	3/8" X 1 1/2" FB X 2" LG W/ 1/2" DIA HOLE @ CENTER	SS304	2
9	1/4" X 3" GASKET X 4" LG	NEOPR	2
10	1/4" X 3" GASKET X 4" LG. W/ 1/2" X 1 3/4" SLOT	NEOPR	2
11	3M CONTACT CEMENT	MANJF	A R

ANTI-CLIMB FOR CAGED LADDER
NOT TO SCALE



NO.	DATE	REVISIONS	BY	PROJECT NO.	DATE	BCVWD APPROVED BY:
				PE 10024	11-89	
				DESIGNED BY R. C. SANGALANG	11-89	
				DRAWN BY D. F. SANTOS	11-89	
				CHECKED BY R. R. DEUSSEN	11-89	
				ENGINEER R. R. DEUSSEN		
				REGISTRATION NO. 16688	DATE 11/1/89	

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WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

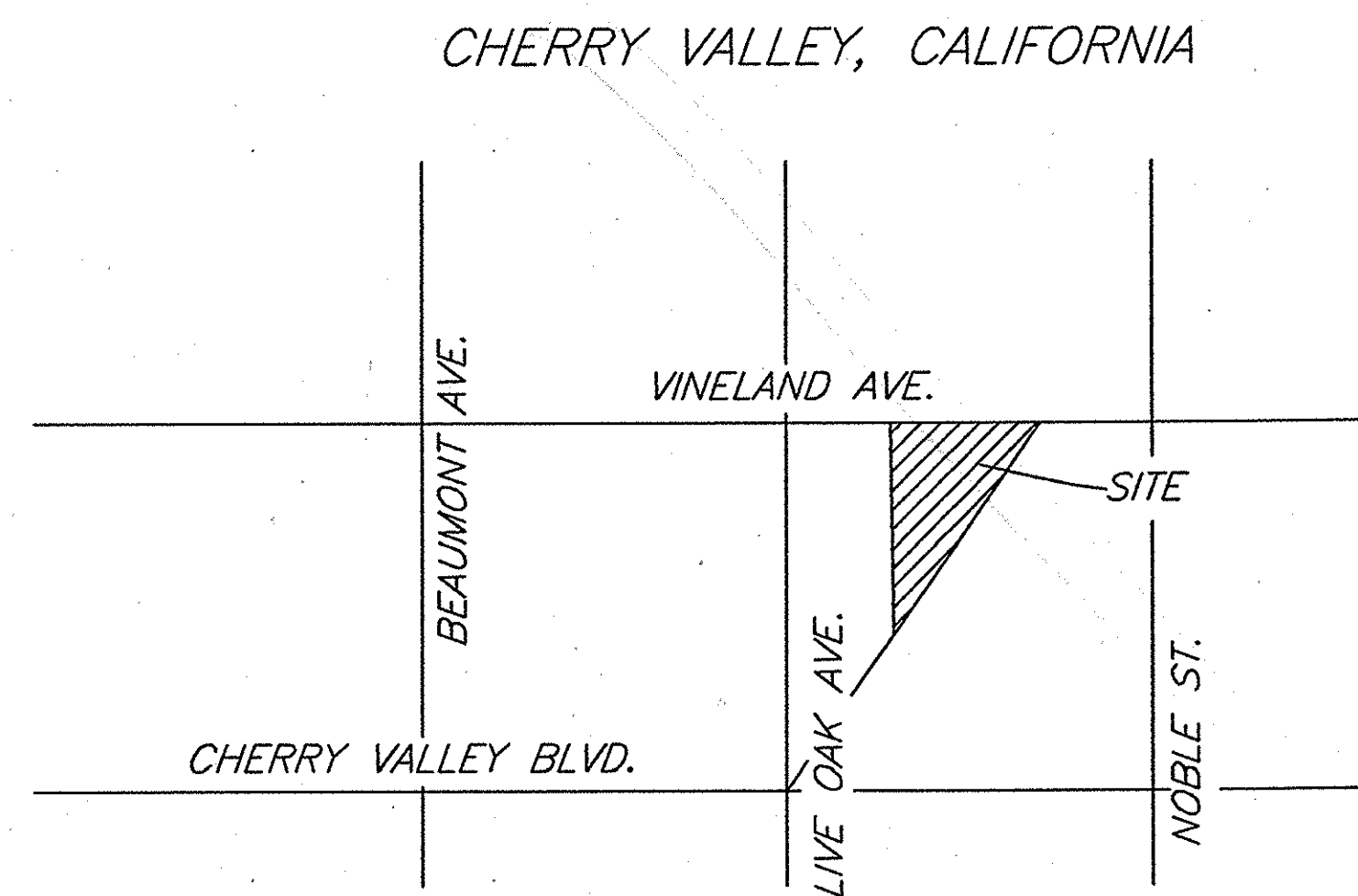
VINELAND STREET RESERVOIR
MISCELLANEOUS DETAILS
SHEET 3

SCALE AS NOTED
SHEET NO. C-4
FILE NO.

BEAUMONT CHERRY VALLEY WATER DISTRICT

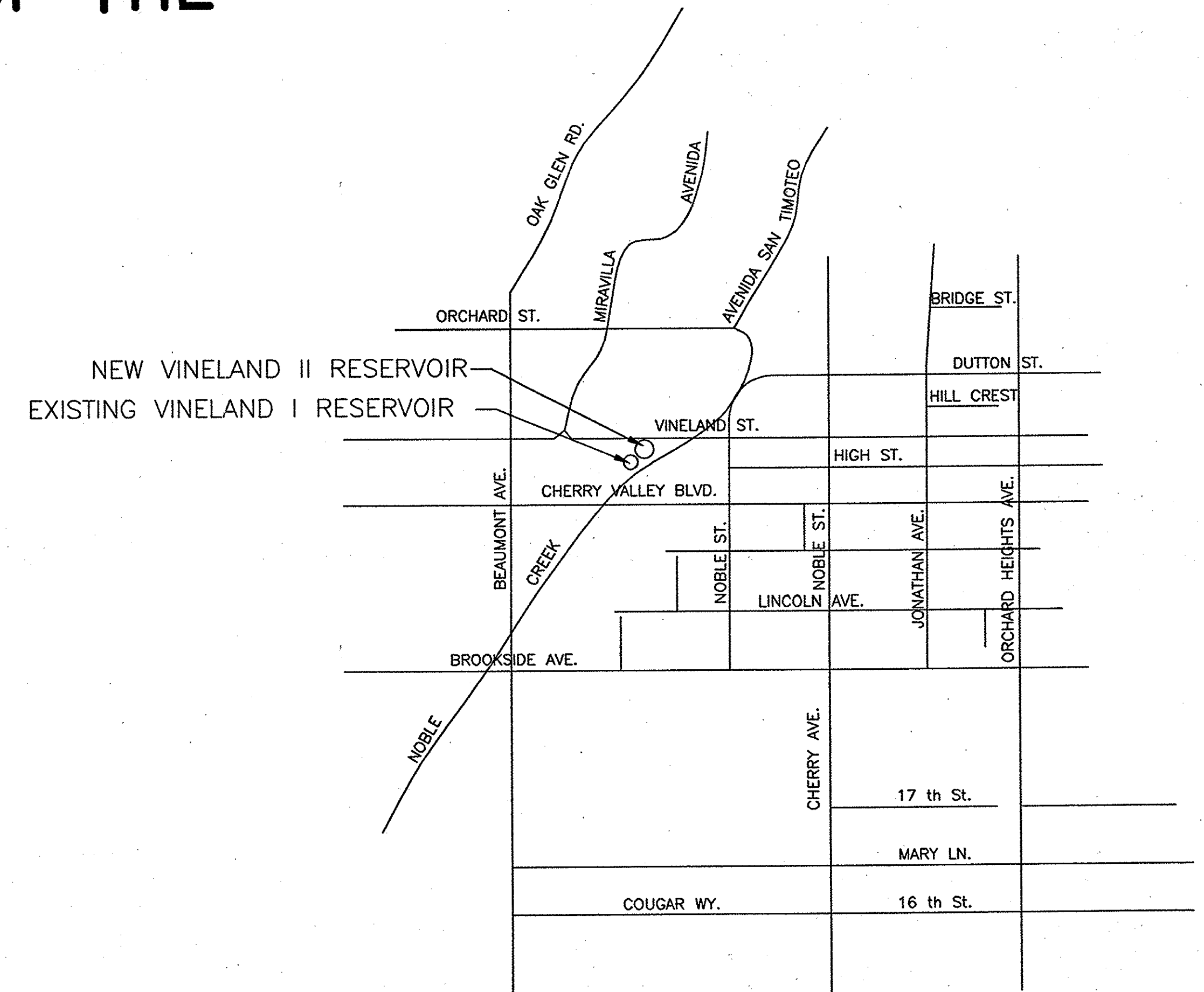
RIVERSIDE COUNTY, CALIFORNIA

PLANS FOR THE CONSTRUCTION OF THE VINELAND II TANK



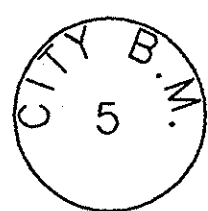
BOARD OF DIRECTORS

GERALD H. BRAY	PRESIDENT
WILLIAM LASH	VICE PRESIDENT
DR. BLAIR BALL	DIRECTOR
HARRIETTE DAHLSTROM	DIRECTOR
STELLA PARKS	DIRECTOR
CHARLES BUTCHER	GENERAL MANAGER



BENCHMARK DESCRIPTION

CITY OF BEAUMONT
BENCHMARK
NO. 05.A.82



TYPE: 1-3/8" BRASS CAP MONUMENT MARKED "CITY B.M. 5"
ELEVATION: 2631.257 (1982)
LOCATION: S.E. CORNER BEAUMONT AVENUE AND 14TH STREET
59' S'LY AND 33' E'LY OF CENTERLINE INTERSECTION
2' S'LY OF B.C.R.
ESTABLISHED FROM RIVERSIDE COUNTY BENCHMARK 603-98-68
SEE WILLDAN JOB NO. 61170



LOCATION MAP N.T.S.

ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THIS PLAN. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

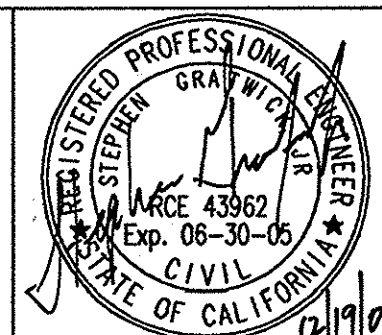
CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.



VICINITY MAP N.T.S.

COORDINATE SYSTEM AND BEARINGS BASED ON
CALIFORNIA STATE PLAN NAD 83 ZONE 6

parsons
100 WEST WALNUT STREET
PASADENA, CALIFORNIA 91124
(626) 440-4000



Job No. 723185				
Designed SG/W				
Drawn JV				
Checked SG				
Approved JCR				
Reg. No.				
Date				
Rev	Date	Description		By

Benchmark	SEE DESCRIPTION HEREON
Scale	NONE

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

[Signature]
District Engineer

R.C.E. No. 18034 Date 12/19/02

VINELAND II TANK 2.00 MG TANK	Drawing No. G-1
TITLE SHEET	Sheet 1 Of 9

ABBREVIATIONS

ARV	AIR RELEASE VALVE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BV	BALL VALVE
CL	CENTER LINE
CLR	CLEAR, CLEARANCE
CML+C	CEMENT MORTAR LINED AND COATED
CONT	CONTINUOUS
CORP	CORPORATION
CPLG	COUPLING
CV	CHECK VALVE
DEFL	DEFLECTION
DIA	DIAMETER
E	ELECTRIC
EF	EACH FACE
ELB	ELBOW
ELEC	ELECTRICAL
EL, ELEV	ELEVATION
EW	EACH WAY
FLG	FLANGED
GB	GRADE BREAK
GV	GATE VALVE
HORIZ	HORIZONTAL
HP	HIGH POINT
INV	INVERT
JT	JOINT
M	MANHOLE
MIN	MINIMUM
N	NOZZLE
NC	NORMALLY CLOSED
OC	ON CENTER
OFL	OVERFLOW
OH	OVERHEAD
PE	PLAIN END
P/L	PROPERTY LINE
PLCS	PLACES
PP	POWER POLE
PS	PUMP STATION
R	RADIAL/RIGHT
SQ	SQUARE
SS	STAINLESS STEEL
TOG	TOP OF GRATE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
W	WATER
WV	WATER VALVE

SITE/CIVIL LEGEND

	DRAINAGE FLOW
	CHAINLINK FENCE
	FIELD FENCE
	IDENTIFICATION AND APPROXIMATE LOCATION OF SOIL TEST HOLE
	STORM DRAIN CATCH BASIN
	STORM DRAIN CULVERT
	UTILITY VAULT
	POWER POLE
	TELEPHONE POLE
	CONTOUR LINE (ADD 3600 FT. TO INTERMEDIATE CONTOURS)
	PROPERTY LINE
	TEMPORARY BENCH MARK (TBM-1)
	CENTERLINE
	TELEMETRY LINE
	ELECTRIC LINE
	WATER LINE
	75.5 NEW SPOT ELEVATION
	(68.5) EXISTING ELEVATION
	HANDRAIL
	EXISTING WATER VALVE

MECHANICAL SYMBOLS

	CAP
	CLEANOUT
	CROSS
	BELL UP
	DRAIN
	AIR TOOL ASSEMBLY
	ATA
	AVS
	PRS
	AUTOMATIC VALVE STATION
	PRESSURE REDUCING STATION
	ELBOW
	FLOW TUBE
	PRESSURE GAGE
	LINE SIZE CHANGE (REDUCER)
	LINE TURNING DOWN
	LINE TURNING UP
	WALL SLEEVE
	WYE-STRAINER
	TEE
	TRAP
	UNION
	BUTTERFLY VALVE (FLANGED)
	VENT
	WYE/LATERAL
	BALL VALVE
	FLOW CONTROL VALVE
	CHECK VALVE
	GATE VALVE
	PRESSURE REDUCING VALVE
	PLUG VALVE
	AIR RELIEF VALVE
	ROTAMETER
	PRESSURE REGULATING VALVE
	WEIR
	GROOVED CAP
	FLANGED JOINT
	MECHANICAL JOINT
	MECHANICAL JOINT OR PUSH ON JOINT
	SCREWED JOINT
	GROOVED COUPLING
	BLIND FLANGE
	MECHANICAL COUPLING
	FLANGED COUPLING ADAPTER
	WELDED ELBOW
	WELDED CONNECTION
	PIPE IN SECTION
	SLUICE GATE OR SLIDE GATE
	PRESSURE GAGE (W/COCK)

GENERAL NOTES

1. ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR THIS PROJECT AND "DISTRICT STANDARDS FOR THE FURNISHING OF MATERIALS AND THE CONSTRUCTION OF WATER FACILITIES", NOVEMBER 1996, AND THE ADOPTED REVISIONS THERETO.
2. WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED IN THE STATE OF CALIFORNIA, EXPERIENCED IN WATER UTILITY CONSTRUCTION.
3. UNLESS OTHERWISE INDICATED, ALL BURIED PIPING SHALL BE CEMENT MORTAR LINED DUCTILE IRON PIPE, MINIMUM PRESSURE CLASS 150 WITH PUSHED-ON JOINTS; AND ALL ABOVE GROUND PIPING SHALL BE EPOXY COATED AND CEMENT MORTAR LINED OR EPOXY LINED STEEL WITH FLANGED OR WELDED JOINTS, MINIMUM PRESSURE CLASS 150.
4. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA (TELEPHONE NO. 1-800-227-2800) FOR LOCATION OF ALL UNDERGROUND UTILITIES TWO WORKING DAYS PRIOR TO COMMENCING WORK.
5. NO EXISTING DISTRIBUTION SYSTEM VALVE SHALL BE OPERATED BY THE CONTRACTOR. DISTRICT PERSONNEL WILL OPERATE ALL NECESSARY VALVES.
6. NO DEVIATIONS FROM THESE PLANS SHALL BE PERMITTED WITHOUT THE APPROVAL OF THE DISTRICT.
7. EXISTING WATER MAINS SHALL NOT BE TAKEN OUT OF SERVICE FOR MORE THAN FOUR HOURS. CONTRACTOR SHALL NOTIFY ALL WATER USERS AFFECTED BY THE SHUTDOWN A MINIMUM OF 48 HOURS PRIOR TO THE ACTUAL SHUTDOWN AND INDICATE THE DATE AND PRECISE HOURS THAT THE MAIN WILL BE TAKEN OUT OF SERVICE.
8. THE CONTRACTOR SHALL BEAR ALL COSTS FOR THE CORRECTION OR REMOVAL AND REPLACEMENT OF DEFECTIVE WORK, AND ALL ADDITIONAL DIRECT AND INDIRECT COSTS THE COUNTY, CITY OR DISTRICT MAY INCUR ON ACCOUNT OF DEFECTIVE WORK, INCLUDING THE COSTS OF ADDITIONAL ADMINISTRATIVE, PROFESSIONAL CONSULTANT, INSPECTION, TESTING, AND OTHER SERVICES.
9. CONTRACTOR SHALL NOTIFY THE DISTRICT AT (909) 845-9581 TWO WORKING DAYS PRIOR TO COMMENCING WORK.
10. CONTRACTOR SHALL COORDINATE ALL RECONNECTS WITH DISTRICT PERSONNEL PRIOR TO ANY CONNECTIONS OR RETIREMENTS OF ANY DISTRICT FACILITIES.
11. CONTRACTOR SHALL RESTRAIN ALL JOINTS AT TEES, ELBOWS, DEAD ENDS, ETC. AS INDICATED ON PLANS.
ALL PIPE SHALL BE HYDROTTESTED AND DISINFECTED AND APPROVED PRIOR TO FINAL CONNECTION TO EXISTING WATERLINES.
- 12.

GENERAL CATHODIC PROTECTION NOTES

1. ALL MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND TECHNICAL SPECIFICATIONS.
2. UNLESS OTHERWISE NOTED, DRAWINGS ARE NOT SHOWN TO SCALE.
3. LOCATION OF ANODE AND PORTABLE REFERENCE CELL ACCESS PORTS SHALL BE ADJUSTED AS NECESSARY TO AVOID CUTTING THROUGH ROOF SUPPORTS, RAFTERS, OR BEAMS.
4. ANODE PORT LOCATIONS SHOWN ARE PRELIMINARY AND MAY BE MODIFIED FOLLOWING REVIEW OF TANK STRUCTURE SHOP DRAWINGS.
5. ALL DRILLING, CUTTING, AND WELDING ON THE TANK SHALL BE DONE BEFORE THE TANK IS COATED.
6. CONTRACTOR SHALL NOT INSTALL MAGNESIUM ANODES UNTIL NOTIFIED BY THE OWNER. SEE SPECIFICATIONS FOR INTERIM ANODE STORAGE.
7. CONTRACTOR SHALL DOCUMENT ALL CHANGES FROM THESE DRAWINGS AND SUBMIT "AS-BUILT" DRAWINGS PER SPECIFICATIONS.
8. REFERENCE CELL SHALL BE COPPER\COPPER SULFATE DESIGNED FOR A MINIMUM LIFE OF 10 YEARS IN POTABLE WATER SERVICE. SEE TECHNICAL SPECIFICATIONS.

RESERVOIR DATA

NOM. CAPACITY	-	2.00 MG
DIAMETER	-	104 FT.
SHELL HEIGHT	-	34 FT.
CONSTRUCTION	-	WELDED STEEL (AWWA D100, LATEST REVISION)
BASE ELEV	-	2847.00
OVERFLOW ELEV	-	2878.60

DRAWING INDEX

SHEET NO.	DWG. NO.	TITLE
1	G-1	TITLE SHEET
2	G-2	GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS
3	C-1	SITE PLAN AND PIPING PROFILES
4	C-2	RESERVOIR PLAN AND ELEVATION
5	C-3	PIPING PLANS AND MECHANICAL DETAILS
6	C-4	CIVIL AND STRUCTURAL DETAILS
7	C-5	MECHANICAL DETAILS
8	C-6	CATHODIC PROTECTION PLAN AND DETAILS
9	C-7	PIPING PLANS AND MECHANICAL DETAILS- EXPANSION JOINT MODIFICATION FOR 1.0 MG TANK

STRUCTURAL NOTES

GOVERNING CODES

UNIFORM BUILDING CODE, 1997

INTENT OF GENERAL STRUCTURAL NOTES

THE INTENT OF THESE GENERAL STRUCTURAL NOTES IS TO DEFINE DESIGN PARAMETERS (LOADS AND ALLOWABLE STRESSES) FOR ALL STRUCTURES AND MATERIALS USED. SPECIFICATIONS CONTAINING MATERIALS AND INSTALLATION ARE A PART OF THIS JOB AND ARE CONTAINED ELSEWHERE.

DESIGN

THE STRUCTURES ARE DESIGNED TO BE STABLE AND SELF-SUPPORTING WHEN ERECTED AND FULLY COMPLETED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ERECTION PROCEDURE, INCLUDING SEQUENCE OF CONSTRUCTION, AND TO ENSURE THE SAFETY OF THE STRUCTURES DURING THE CONSTRUCTION PHASE, INCLUDING THE DESIGN AND SAFETY OF ANY TEMPORARY BRACING OR OTHER MEASURES WHICH MAY BE NECESSARY TO FACILITATE AND COMPLETE CONSTRUCTION.

LIVE LOADS

DESIGN LIVE LOADS FOR THE STRUCTURES ARE AS FOLLOWS: ROOF-20PSF

WIND LOADS

BASIC WIND SPEED - 70 MPH
EXPOSURE - "C"

SEISMIC LOADS

PEAK GROUND ACCELERATION:..... 0.77g
SEISMIC ZONE:..... 4
IMPORTANCE FACTOR:..... 1.25

FOUNDATION

GEOTECHNICAL INVESTIGATION REPORT BY: CONVERSE CONSULTANTS DATED JULY 19, 2002, INCLUDING SUPPLEMENTAL DESIGN RECOMMENDATIONS DATED AUGUST 7, 2002. ALL PERTINENT RECOMMENDATIONS SHALL BE A PART OF THIS PLAN. SOIL BEARING CAPACITY = 3500 PSF. MINIMUM FOOTING DEPTH. 1'-6" INTERIOR OR 2'-0" BELOW ADJACENT EXTERIOR GRADE.

COORDINATION OF WORK

MECHANICAL FRAMING, OPENINGS AND SUPPORTS FOR EQUIPMENT OR OTHER PROCESS ITEMS ARE SHOWN FOR BIDDING PURPOSES ONLY. THE EXACT SIZE AND LOCATION OF SUCH ITEMS SHALL BE VERIFIED FROM MANUFACTURER'S APPROVED SHOP DRAWINGS AND BY COORDINATION OF SUCH WORK WITH THE PERTINENT TRADE.

MISCELLANEOUS

FOR LOCATIONS AND DETAIL OF PIPES, CONDUITS, DUCTS, AND OTHER OPENINGS ON SLABS AND WALLS, SEE CIVIL DRAWINGS.

GENERAL:

1. ALL DETAILS MARKED "TYPICAL" SHALL BE USED WHEREVER APPLICABLE, UNLESS OTHERWISE INDICATED ON PLANS.
2. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE UNIFORM BUILDING CODE, 1997 EDITION, AS MINIMUM REQUIREMENT.
3. PIPE CONNECTION TO STRUCTURES SHALL BE AS SHOWN ON THE STANDARD DETAILS UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY ALL EQUIPMENT PAD SIZES, ANCHOR BOLT SIZES AND LOCATIONS, AND OTHER EMBEDDED ITEMS WITH EQUIPMENT MANUFACTURER'S APPROVED SHOP DRAWINGS PRIOR TO POURING CONCRETE.
5. SEE MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR EQUIPMENT PADS NOT SHOWN ON STRUCTURAL DRAWINGS.

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS AND SHALL CONFORM TO ASTM A 615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.
2. THE CLEAR COVER OVER REINFORCING SHALL BE AS FOLLOWS:
A. CONCRETE CAST AGAINST EARTH 3"
B. FORMED CONCRETE AGAINST EARTH, WEATHER OR WATER 2" (UON)
C. CONCRETE SLABS & WALLS NOT EXPOSED TO WATER / EARTH 3/4" (UON)
3. LAP SPICE SHALL BE 30 DIAM. IN CONCRETE, 40 DIAM. IN MASONRY

MASONRY

1. MASONRY UNITS OF CONCRETE SHALL CONFORM TO ASTM C90 GRADE N-1 f'm=1500, ASTM C140 AND ASTM C42C.
2. MORTAR MIX SHALL BE TYPE "S", WITH ONE PART CEMENT AND 1/4 TO 1/2 PART HYDRATED LIME OR LIME PUTTY BY VOLUME. AGGREGATE MEASURED IN A DAMP, LOOSE CONDITION SHALL BE NOT LESS THAN 2 1/4 AND NOT MORE THAN 3 TIMES THE SUM OF THE SEPARATE VOLUME OF CEMENTIOUS MATERIALS.
3. GROUT MIX SHALL BE 1 PART BY VOLUME OF PORTLAND CEMENT AND 0 TO 1/10 PARTS BY VOLUME OF HYDRATED LIME OR LIME PUTTY. AGGREGATE MEASURED IN A DAMP, LOOSE CONDITION SHALL BE :

A. FINE GROUT: SAND, 2-1/4 TO 3 TIMES THE SUM OF THE VOLUME OF THE CEMENTIOUS MATERIALS

B. COARSE GROUT: SAND, 2 TIMES, AND PEA GRAVEL, NOT MORE THAN 2 TIMES THE SUM OF THE VOLUME OF THE CEMENTIOUS MATERIALS

FINE GROUT IS USED FOR NARROW, LESS THAN 2", GROUT SPACE.

SUFFICIENT WATER SHALL BE ADDED TO CAUSE THE GROUT TO FLOW INTO THE CELLS OF THE MASONRY.

GROUT SHALL ATTAIN A MINIMUM STRENGTH OF 2000 PSI AT 28 DAYS. SOLID GROUT ALL CELLS.

CONCRETE

ADDITIONAL CODE

- ACI 318-95 BUILDING CODE FOR REINFORCED CONCRETE, ACI-308 ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURE

STRENGTH

- U.N.O. @28 DAYS
F'c = 4,000 PSI, TANK FOOTING
F'c = 3,000 PSI, ALL OTHERS

DETAILING AND FABRICATION - ACI 315R(88), ACI-318 MANUAL

CEMENT - ASTM C150, TYPE I OR II

AGGREGATE - ASTM C-33

UNLESS OTHERWISE SHOWN OR NOTED, ALL 90--135- AND 180--DEGREE HOOKS FOR REINFORCING SHALL BE IN ACCORDANCE WITH THE STANDARD HOOK DETAILS SHOWN IN ACI 315R-88.

TACK WELDING, WELDING, HEATING OR CUTTING OF BARS: NOT PERMITTED, U.N.O.

SPICES (STANDARD LAPS): 40 DIAMETERS OR 24 INCHES WHICHEVER IS GREATER U.N.O. ON DRAWINGS. STAGGER BOTTOM SPICES AT LEAST 5'-0" FROM SPICES IN OTHER BOTTOM REINFORCEMENT. STAGGER SPICES FOR TOP REINFORCEMENT SIMILARLY.

ANCHOR BOLTS, DOWELS AND HOLD DOWN ANCHORS: SECURELY HELD IN PLACE PRIOR TO POURING OF CONCRETE.

CHAMFER: 3/4 INCH ON EXPOSED CORNERS.

CONCRETE CURING: ACI 318

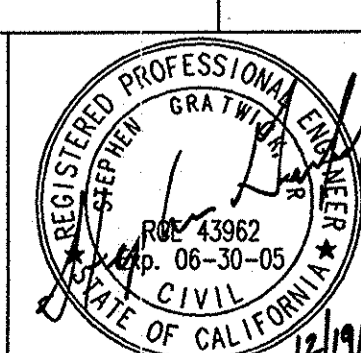
INSPECTION

CONTINUOUS INSPECTION SHALL BE PERFORMED BY A SPECIAL INSPECTOR AS DEFINED IN SPECIFICATIONS. CONTINUOUS INSPECTION WILL BE REQUIRED FOR THE FOLLOWING WORK:

1. PLACING OF CONCRETE AND REINFORCING STEEL FOR CONCRETE WITH 28-DAY STRENGTHS IN EXCESS OF 2,500 PSI.
2. PLACING OF MASONRY UNITS, REINFORCING STEEL, AND GROUTING FOR CONCRETE BLOCK MASONRY.

s:\asmiss\ce\bcvwd\edgtrnk\G-02.dwg

parsons
100 WEST WALNUT STREET
PASADENA, CALIFORNIA 91124
(626) 440-4000



Job No.	723185	Benchmark	SEE SHEET G-1
Designed	SG/JV	Scale	NONE
Drawn	JV	By	[Signature]
Checked	SG	Date	12/19/02
Approved	JCR	R.C.E. No.	18034
Reg. No.			
Date			

Rev	Date	Description

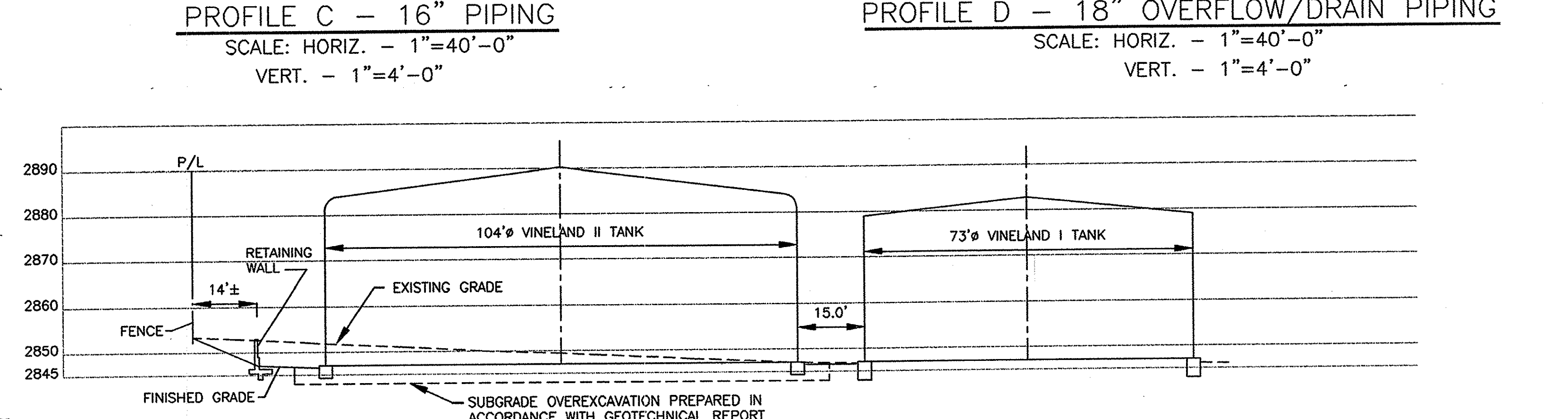
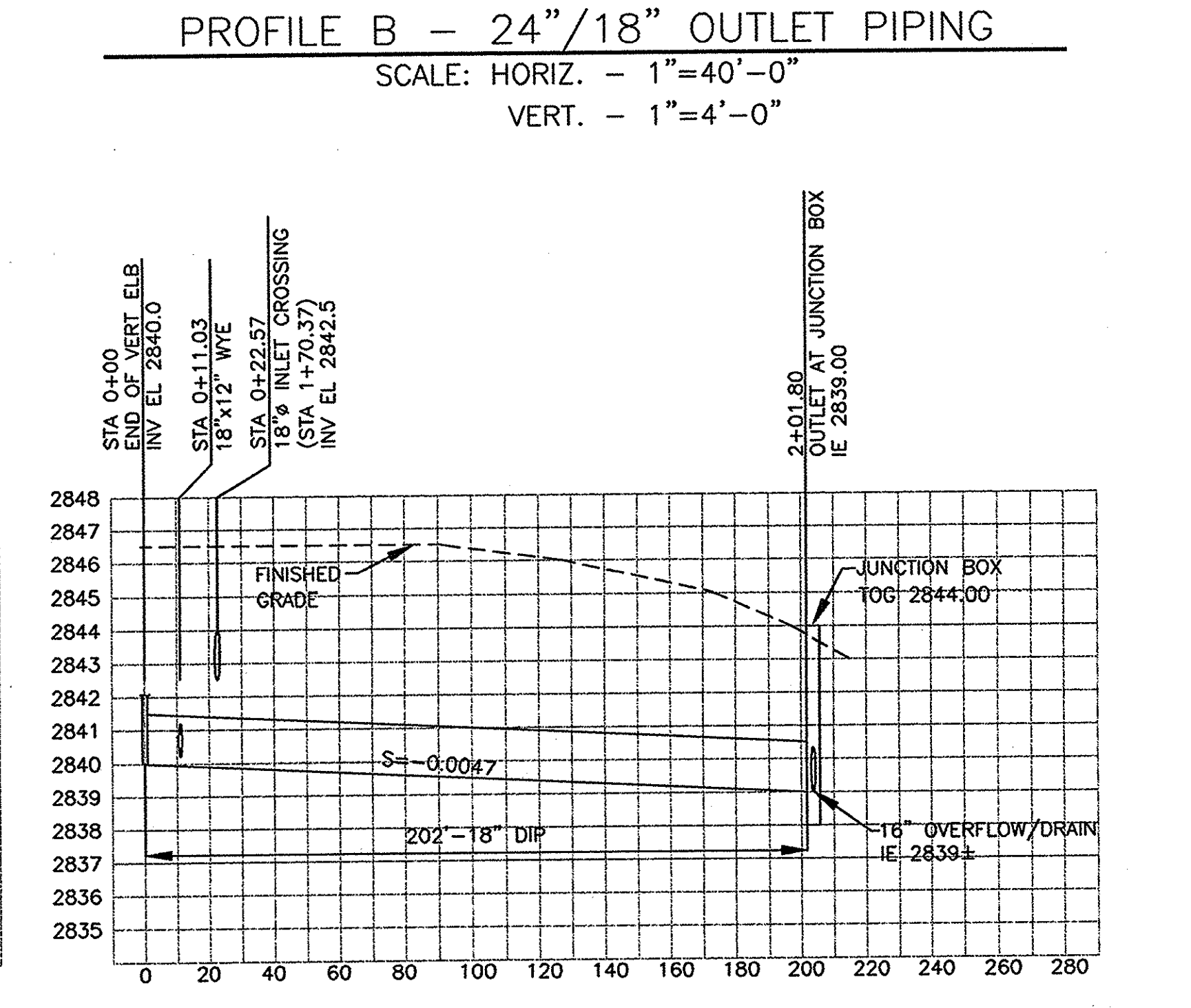
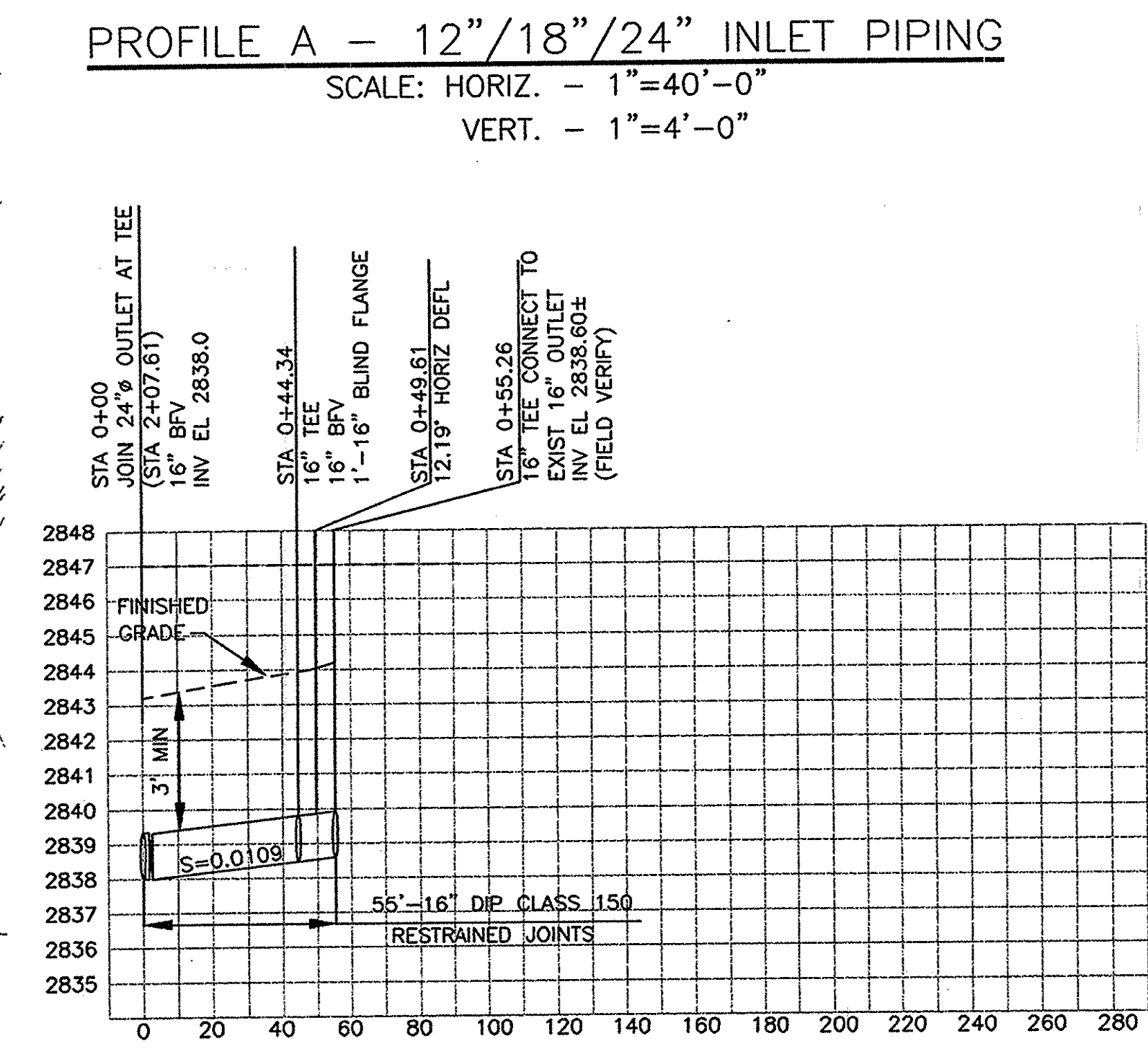
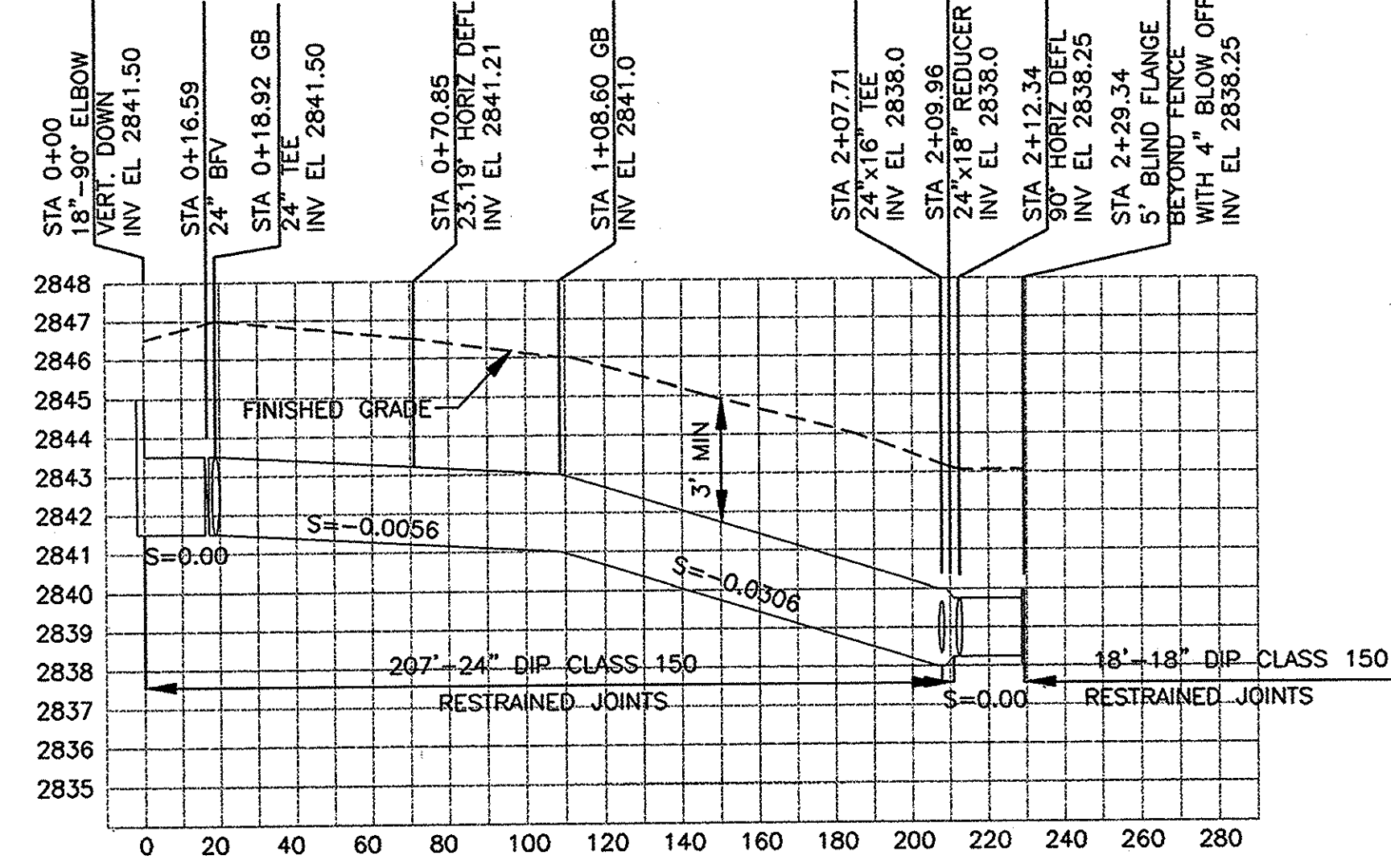
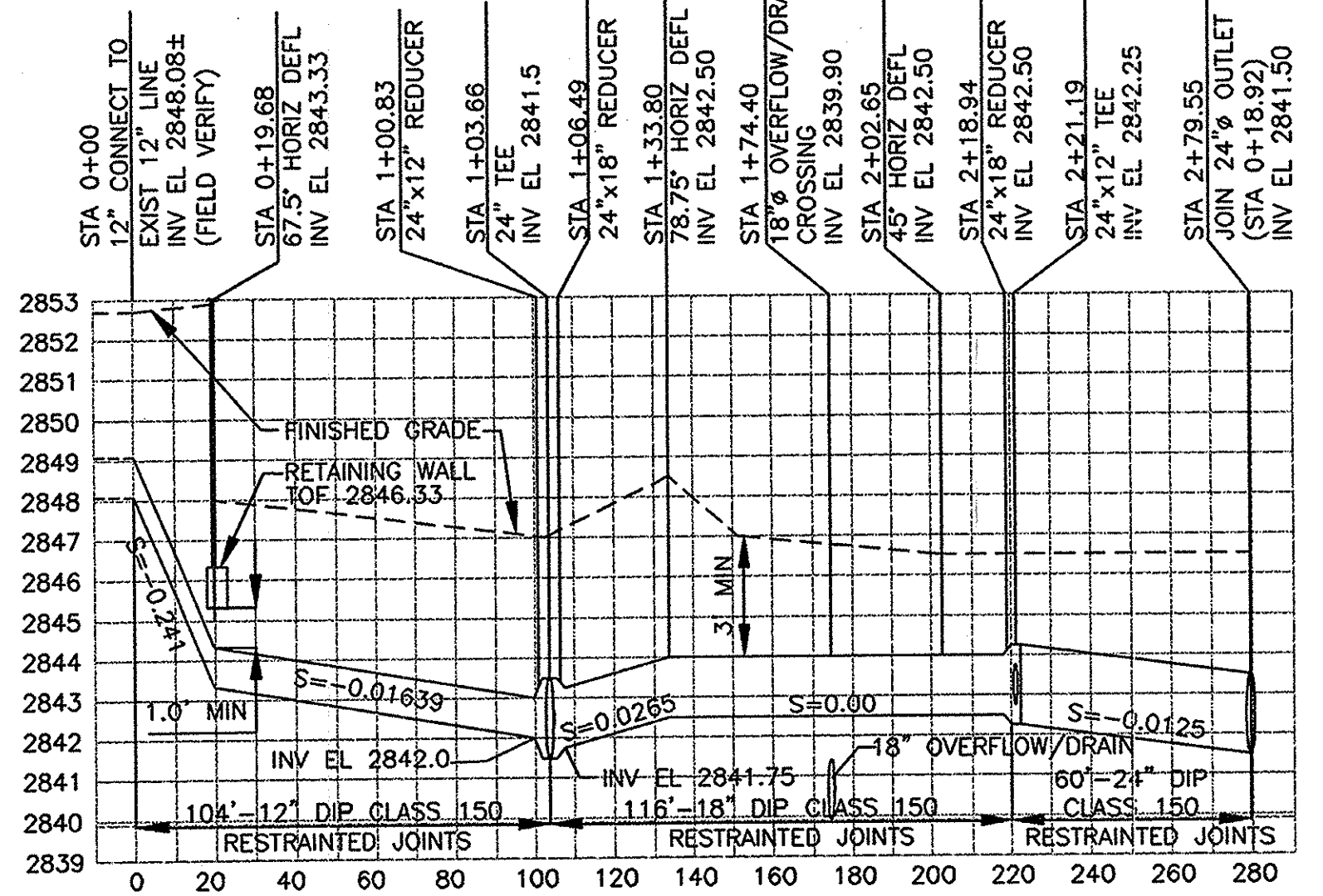
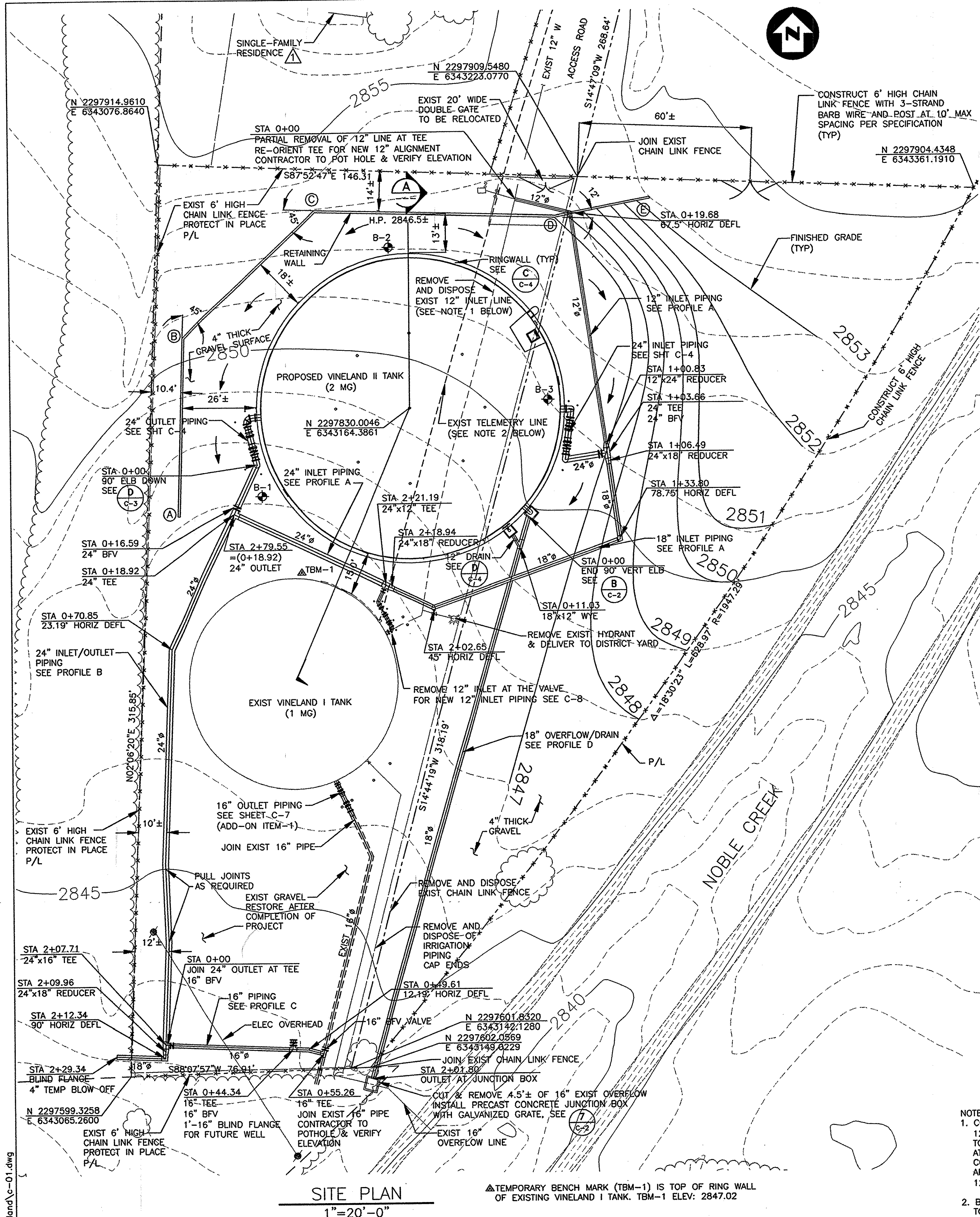
BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

District Engineer [Signature]
Date 12/19/02

VINELAND II TANK
2.00 MG TANK

GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

Drawing No. G-2
Sheet 2 of 9



- NOTES:**
- CONTRACTOR SHALL TEMPORARILY RELOCATE EXISTING 12" WATER LINE AND MAKE APPROPRIATE CONNECTIONS TO MAINTAIN FULL OPERATION OF EXISTING VINELAND I TANK AT ALL TIMES. ANY TEMPORARY SHUTDOWNS SHALL BE COORDINATED WITH THE DISTRICT. AFTER FINAL TIE-INS AND APPROVAL OF PIPELINE, CONTRACTOR SHALL REMOVE TEMPORARY 12" WATER LINE AND RESTORE SITE TO ORIGINAL CONDITION.
 - BCVWD WILL RELOCATE EXISTING TELEMETRY CABLE PRIOR TO START OF CONSTRUCTION.

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(626) 440-4000

REGISTERED PROFESSIONAL ENGINEER
GRAVITY
No. 43962
Exp. 08-30-05
CIVIL
STATE OF CALIFORNIA

Job No.	723185	Benchmark	SEE SHEET G-1
Designed	SG/JV	Scale	AS SHOWN
Drawn	JV		
Checked	SG		
Approved	JCR		
Reg. No.			
Date	12/11/02		
Rev	Date	Description	By
1	11/02	ADDENDUM NO. 1	

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

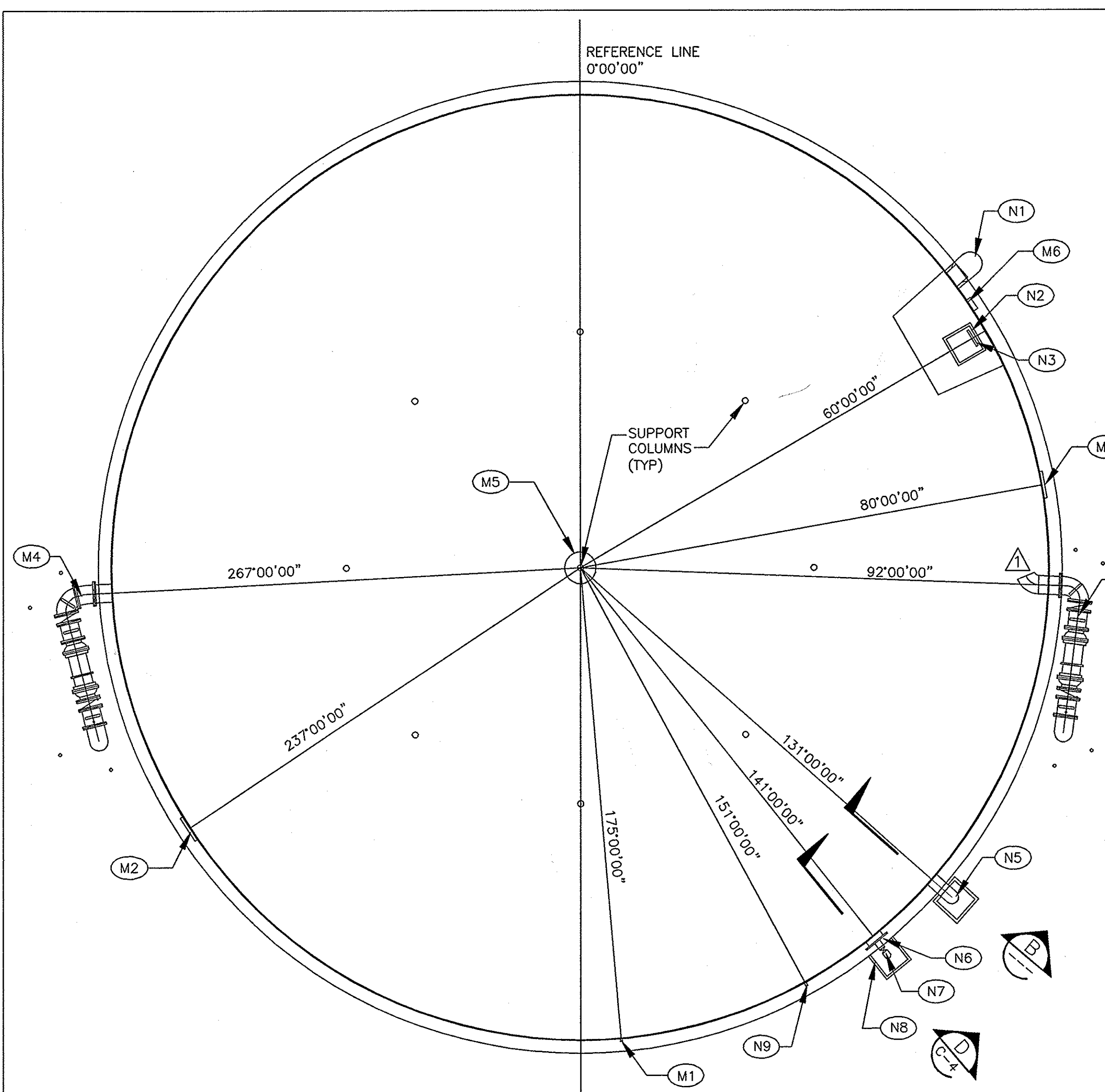
District Engineer: *J. Schreiber*
R.C.E. No. 18034
Date: 12/11/02

VINELAND II TANK
2.00 MG TANK

SITE PLAN AND PIPING PROFILES

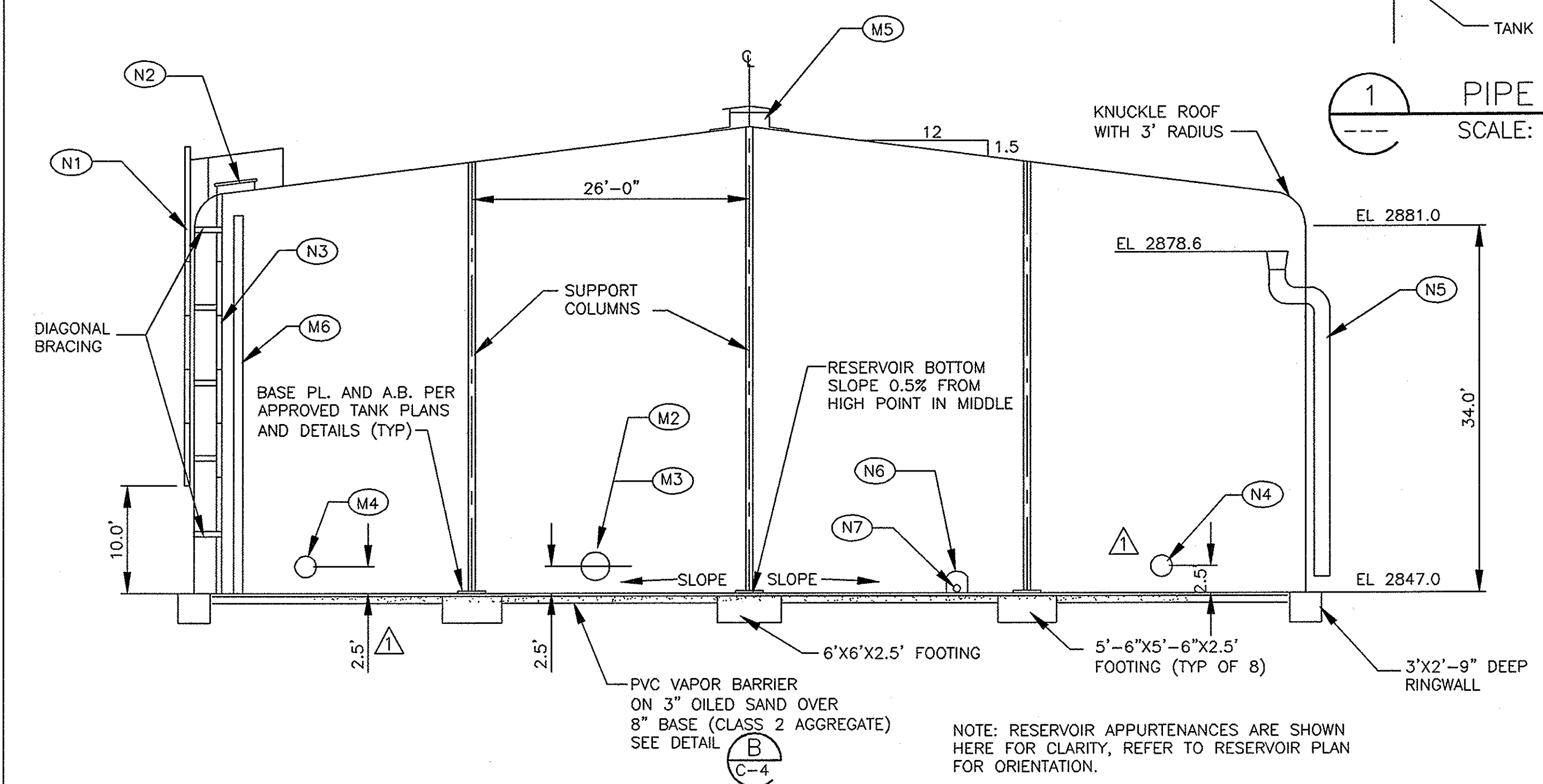
Drawing No. C-1

Sheet 3 of 9



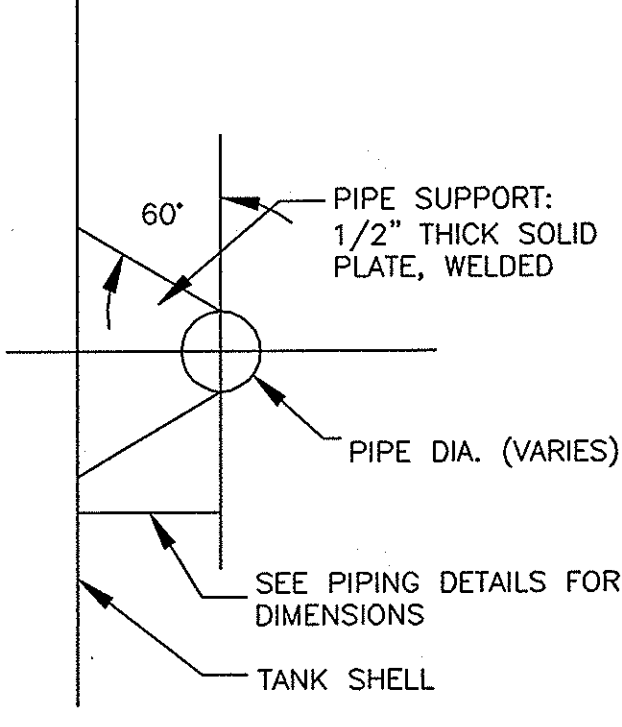
RESERVOIR PLAN
1"=10'

- LEGEND:
- (N1) EXTERIOR LADDER AND SAFETY CAGE MEETING OSHA REQUIREMENTS. SEE DETAIL (3) C-5
 - (N2) 42" SQUARE ROOF MANHOLE. SEE DETAIL (3) C-5
 - (N3) INTERIOR STAINLESS STEEL LADDER-OSHA APPROVED WITH SAFETY CLIMB DEVICE. LADDER RUNGS SHALL BE NURLED (5) C-5
 - (N4) 24" FLANGED INLET PIPE. FOR PIPING DETAILS, SEE SHEET C-3
 - (N5) 18" OVERFLOW PIPE. SEE DETAIL (6) C-4
 - (N6) 24"x24" (API-650) FLUSH TYPE CLEANOUT. SEE DETAIL (D) C-4
 - (N7) 8" FLANGE DRAIN PIPE & 8" GV. SEE DETAIL (D) C-4
 - (N8) 36"x36"x30" CONCRETE DRAIN BOX
 - (N9) 2 1/2" TANK OUTLET CONNECTION. SEE DETAIL (4) C-5
 - (M1) 2" CONNECTION FOR PRESSURE TRANSMITTER SEE DETAIL (5) C-5
 - (M2) 30" HINGED INWARD OPENING SHELL ACCESS MANWAY. SEE DETAIL (4) C-5
 - (M3) 30" HINGED INWARD OPENING SHELL ACCESS MANWAY. SEE DETAIL (4) C-5
 - (M4) 24" FLANGED OUTLET PIPE. FOR PIPING DETAIL, SEE SHEET C-3
 - (M5) 42" ROOF VENT WITH REMOVABLE STAINLESS STEEL SCREEN
 - (M6) LIQUID LEVEL INDICATOR (HALF TRAVEL) SEE DETAIL (2) C-5

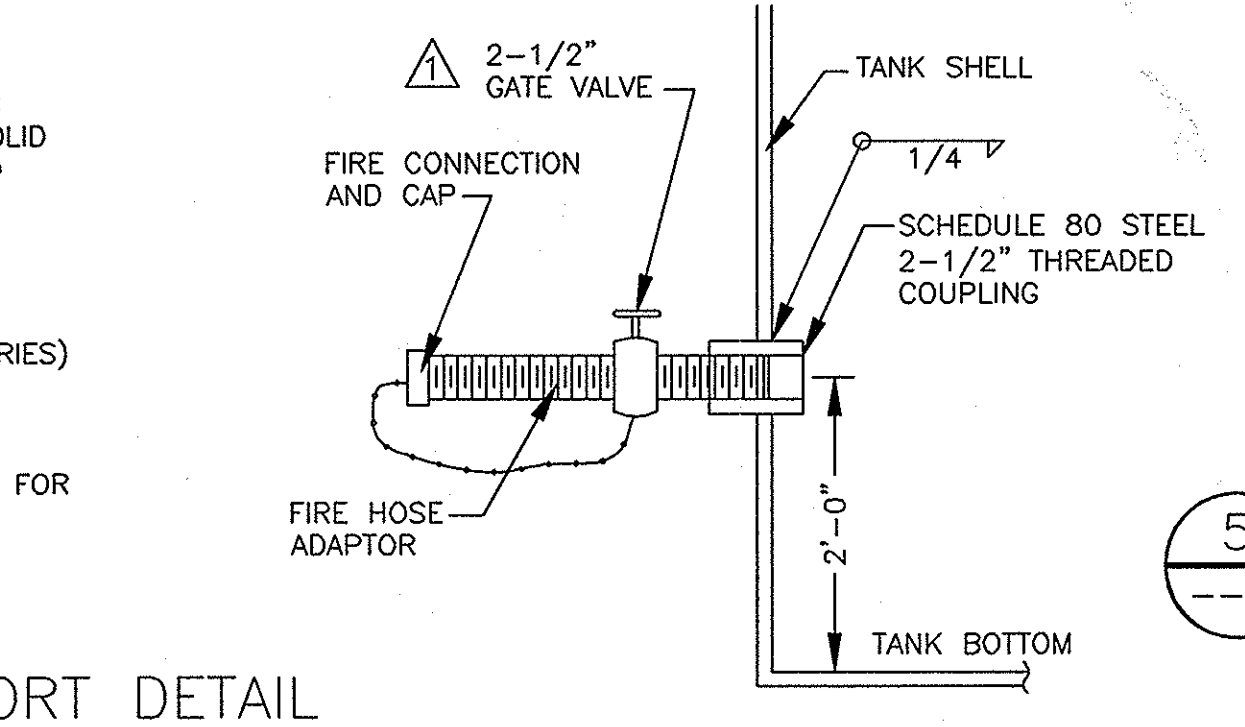


ELEVATION
1"=10'

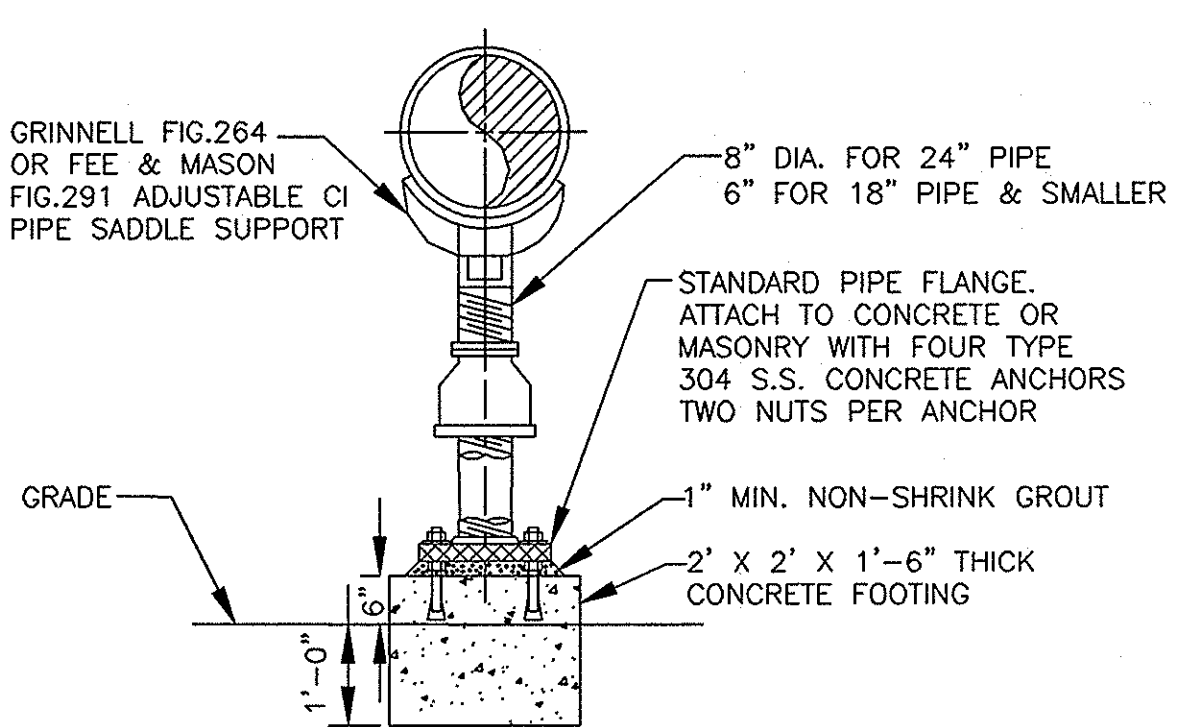
NOTE: RESERVOIR APPURTENANCES ARE SHOWN HERE FOR CLARITY, REFER TO RESERVOIR PLAN FOR ORIENTATION.



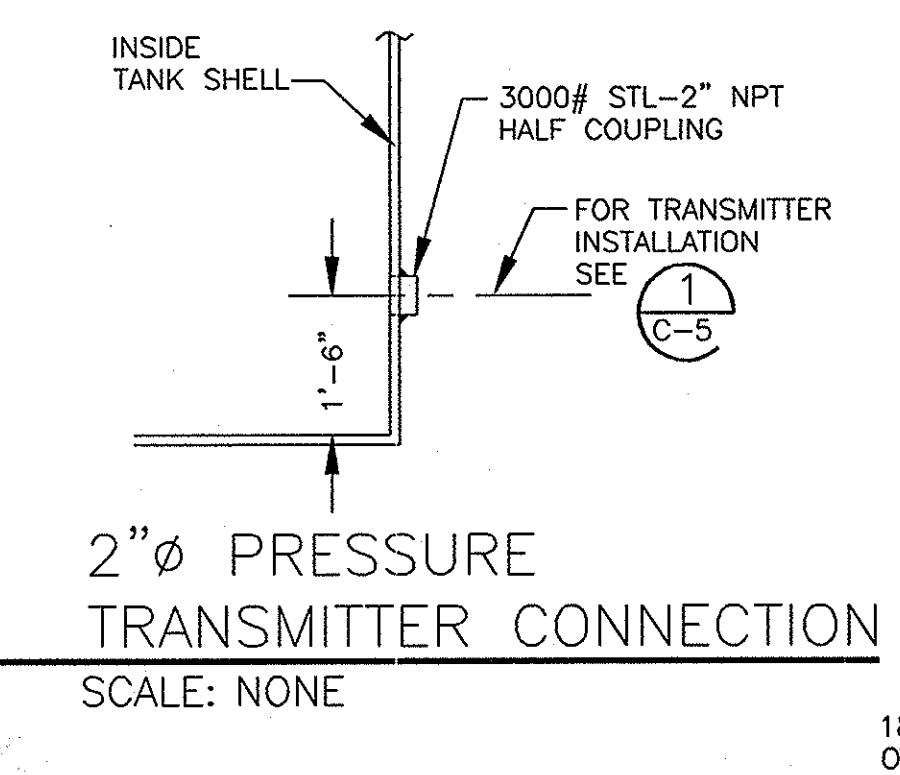
(1) PIPE SUPPORT DETAIL
SCALE: NONE



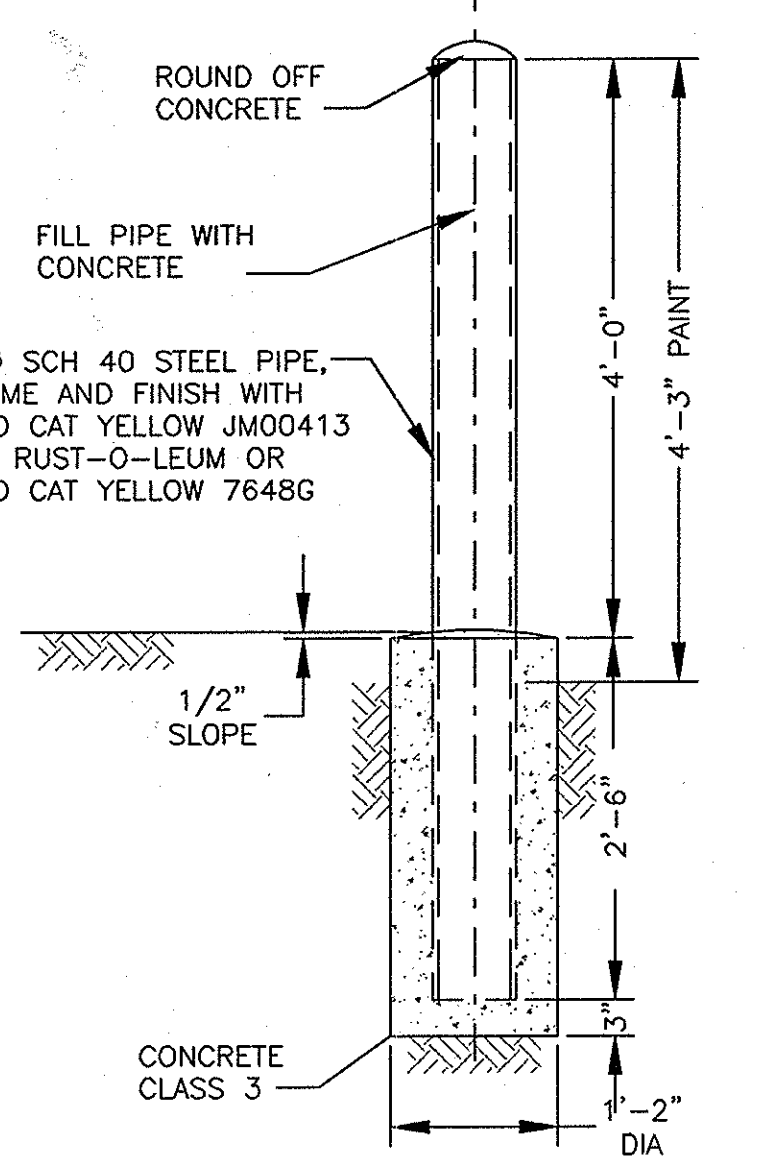
(4) 2-1/2" TANK OUTLET CONNECTION
SCALE: NONE



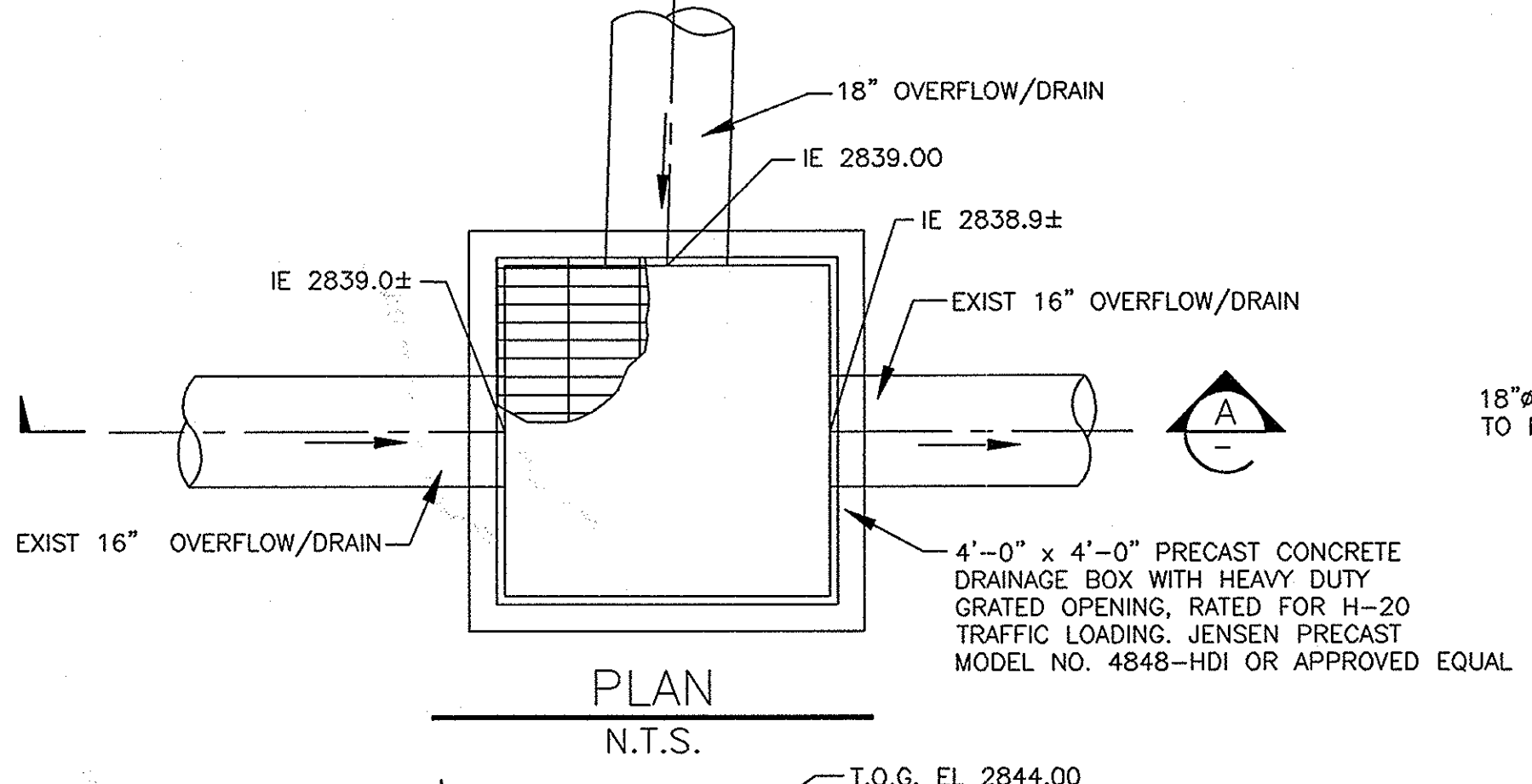
(2) ADJUSTABLE PIPE SUPPORT
SCALE: NONE



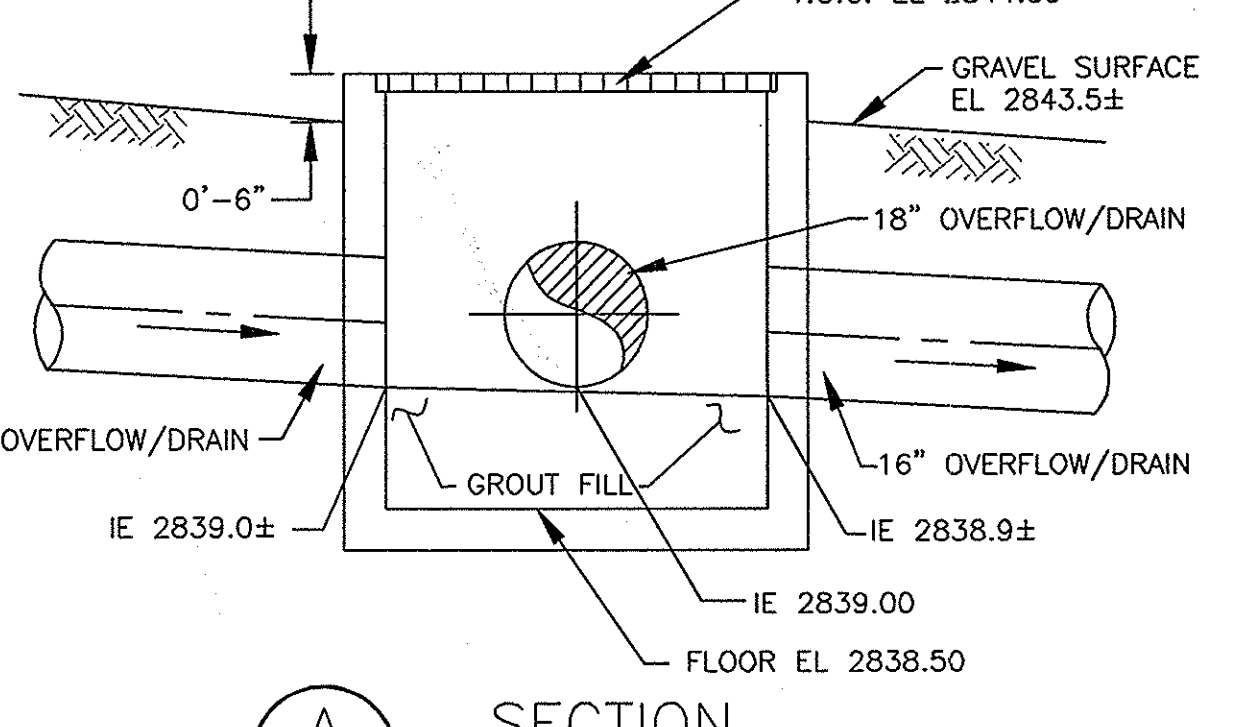
(5) 2" PRESSURE TRANSMITTER CONNECTION
SCALE: NONE



(3) GUARD POST
SCALE: NONE

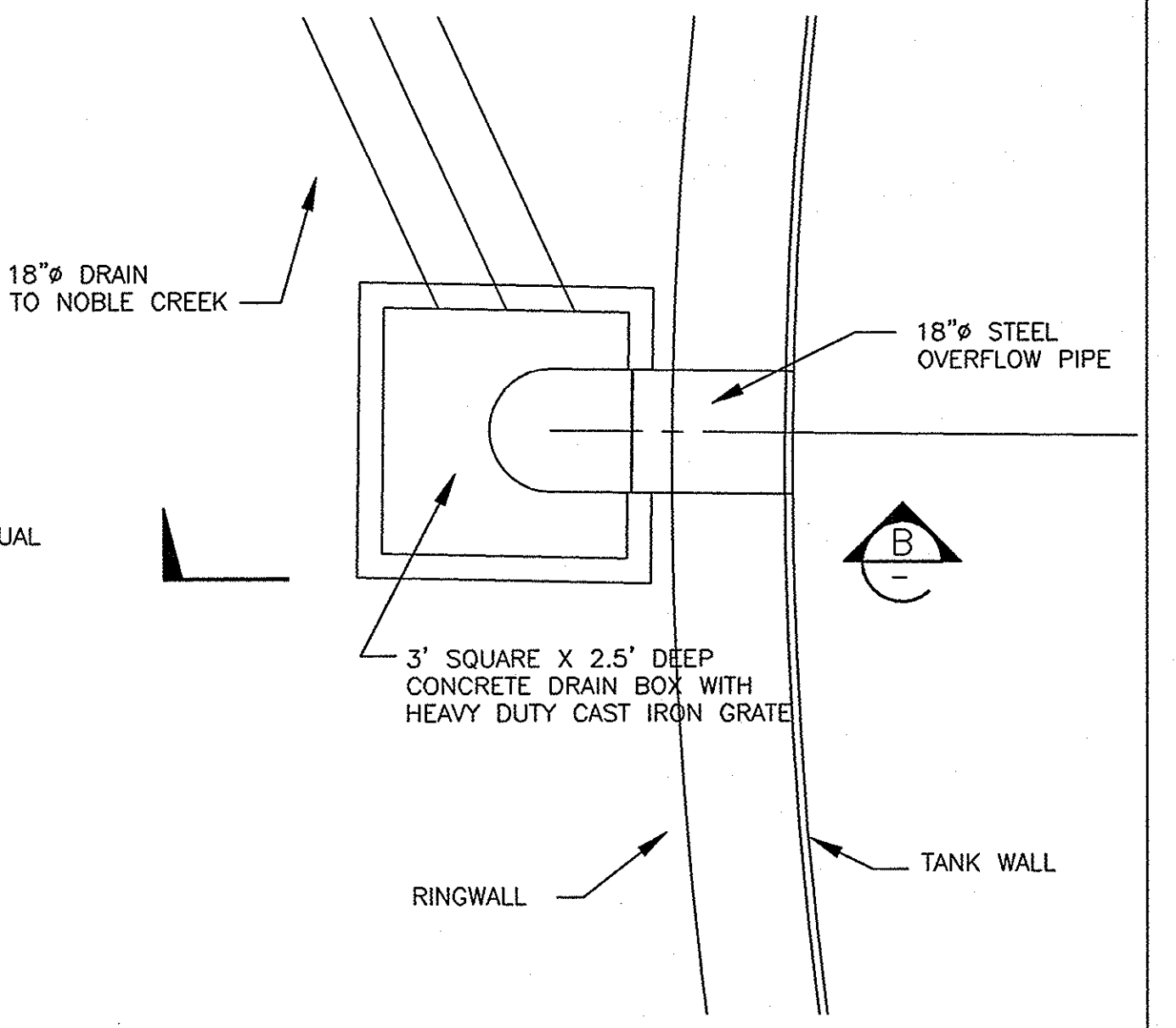


PLAN
N.T.S.

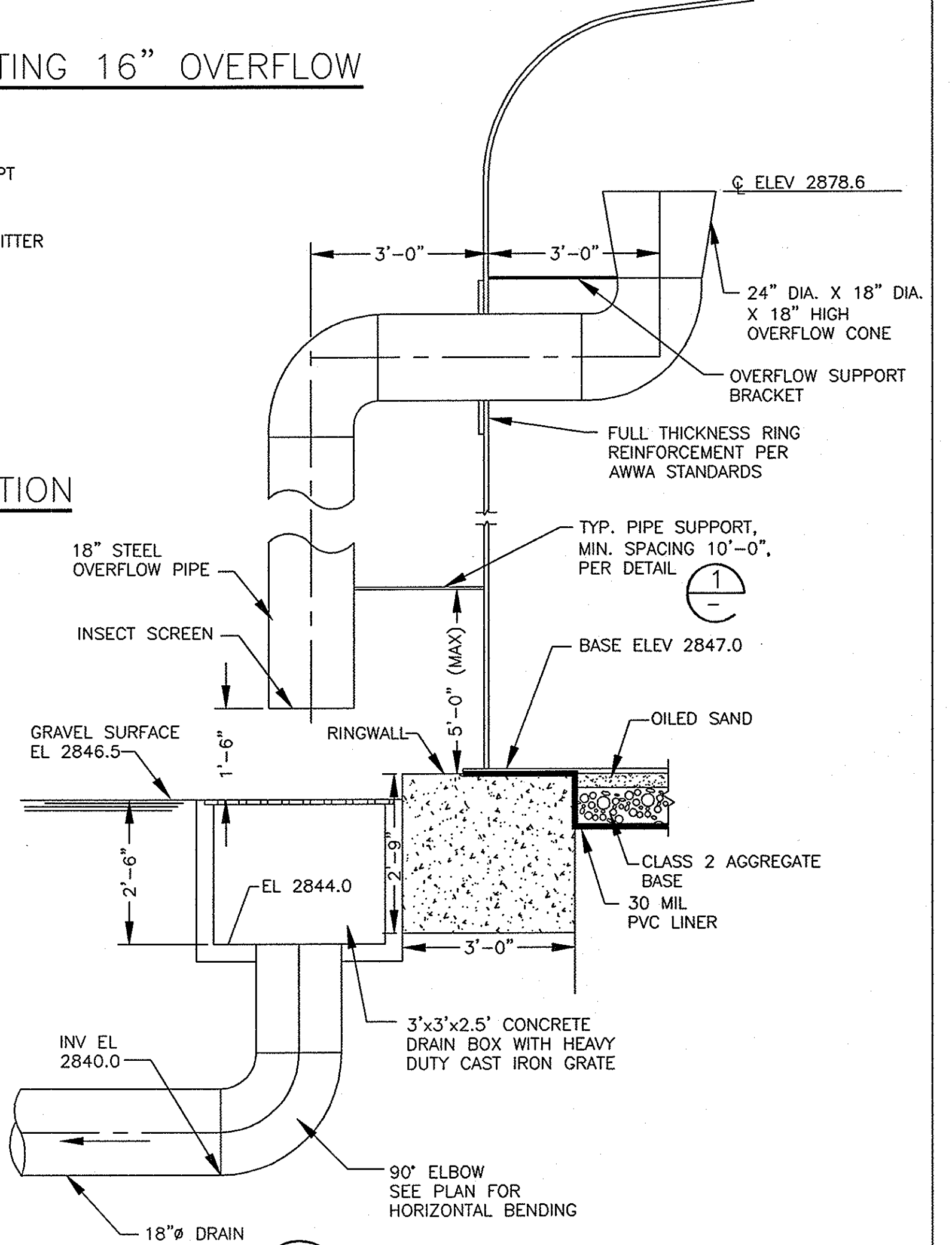


(A) SECTION
SCALE: NONE

(7) 18" OVERFLOW PIPE CONNECTION TO EXISTING 16" OVERFLOW
SCALE: NONE

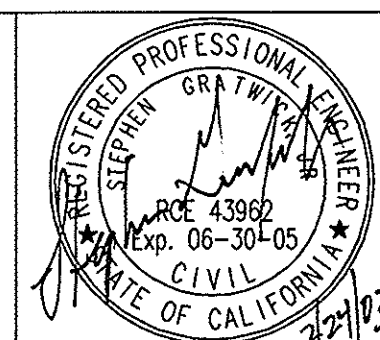


(6) OVERFLOW PLAN
SCALE: 1/2" = 1'-0"



(B) SECTION - OVERFLOW
SCALE: 1/2" = 1'-0"

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Job No.	723185	Benchmark	SEE SHEET G-1
Designed	SG/JV	Scale	AS SHOWN
Drawn	JV		
Checked	SG		
Approved	JCR		
Reg. No.			
Date	1 2/03	Rev	2/03
		Date	2/24/03
		Description	REVISED 24" INLET & MISC. DIMENSIONS
		By	SG
			By

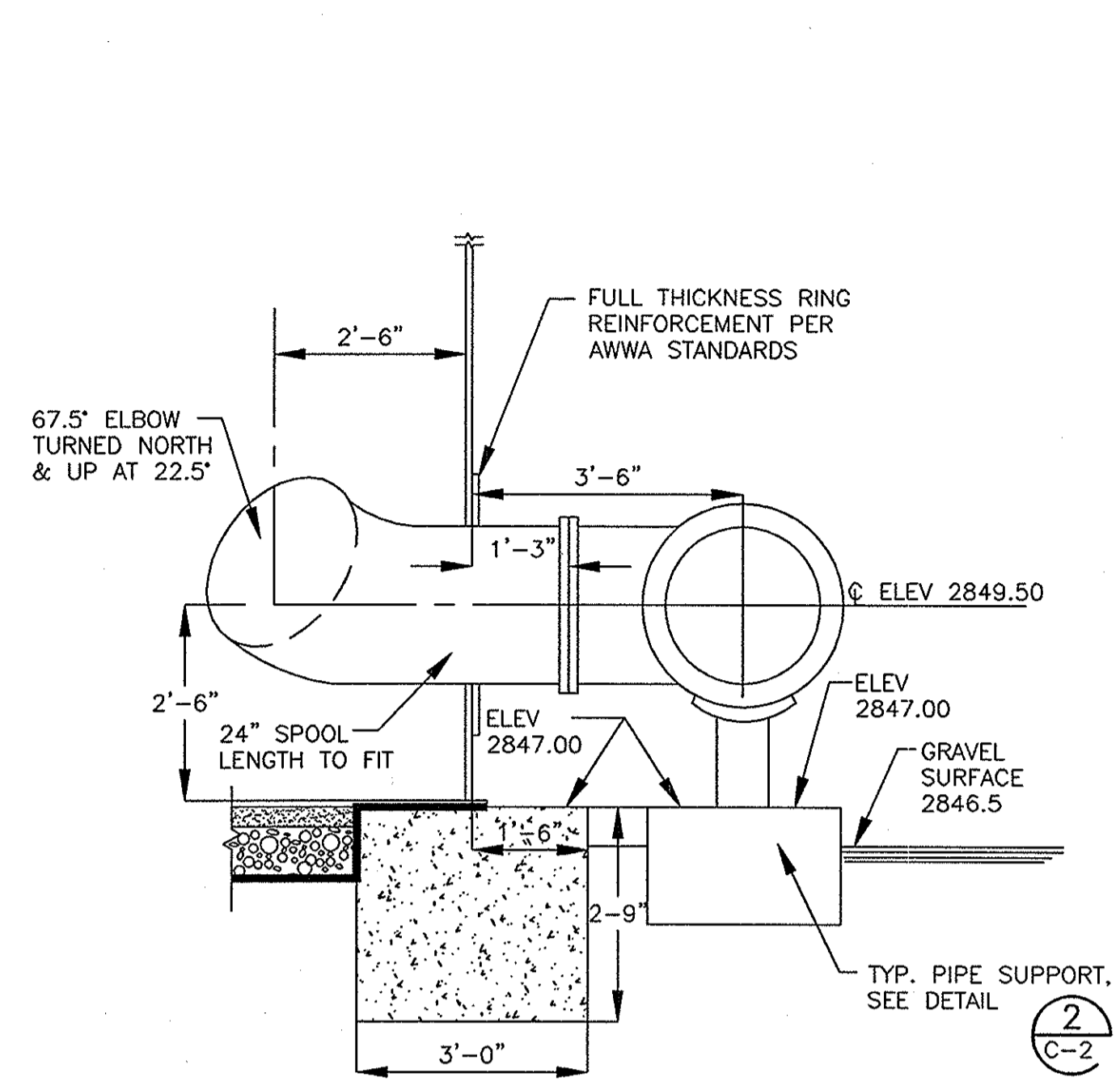
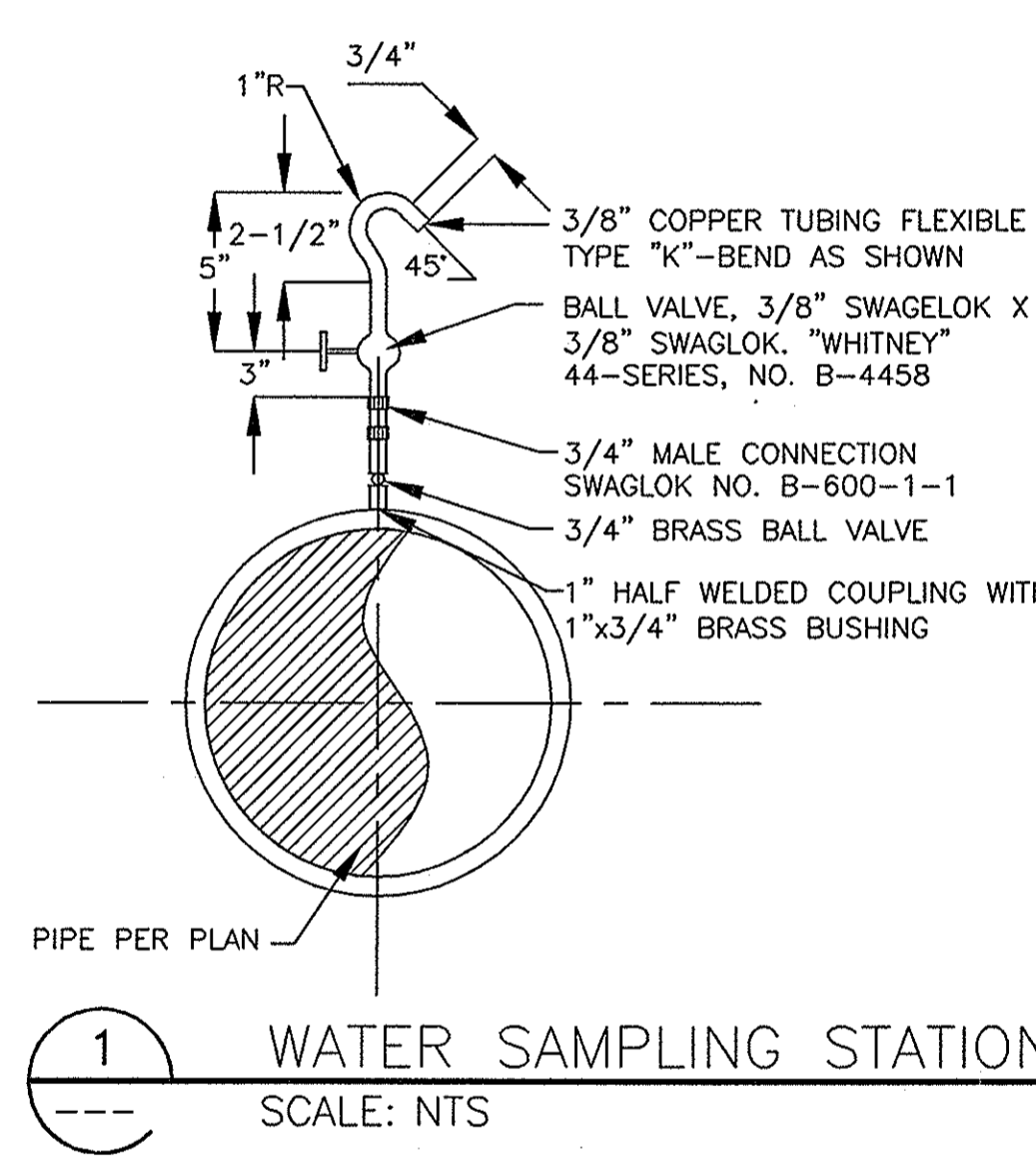
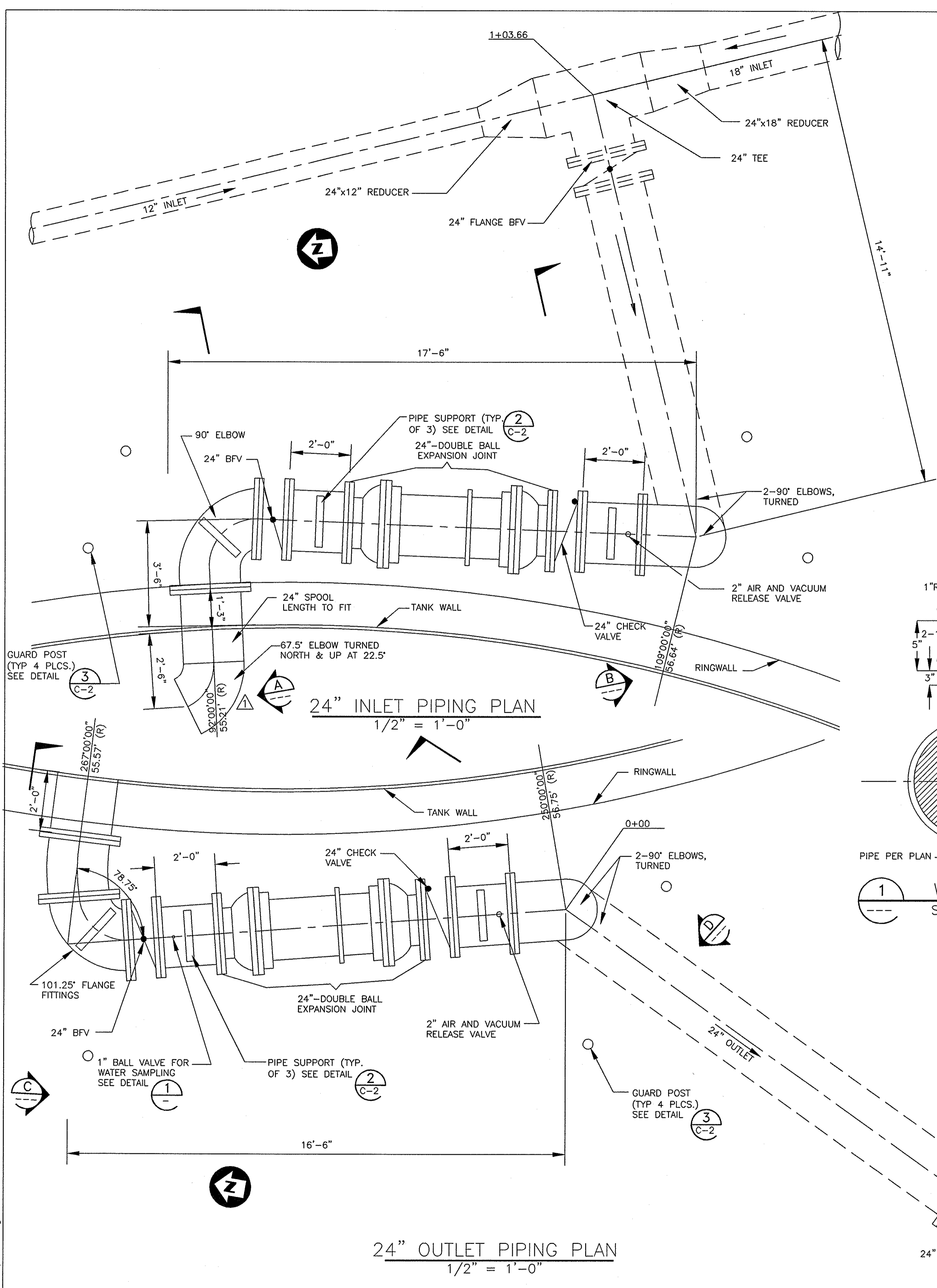
BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

District Engineer: *[Signature]*
R.C.E. No. 18034
Date: 2/24/03

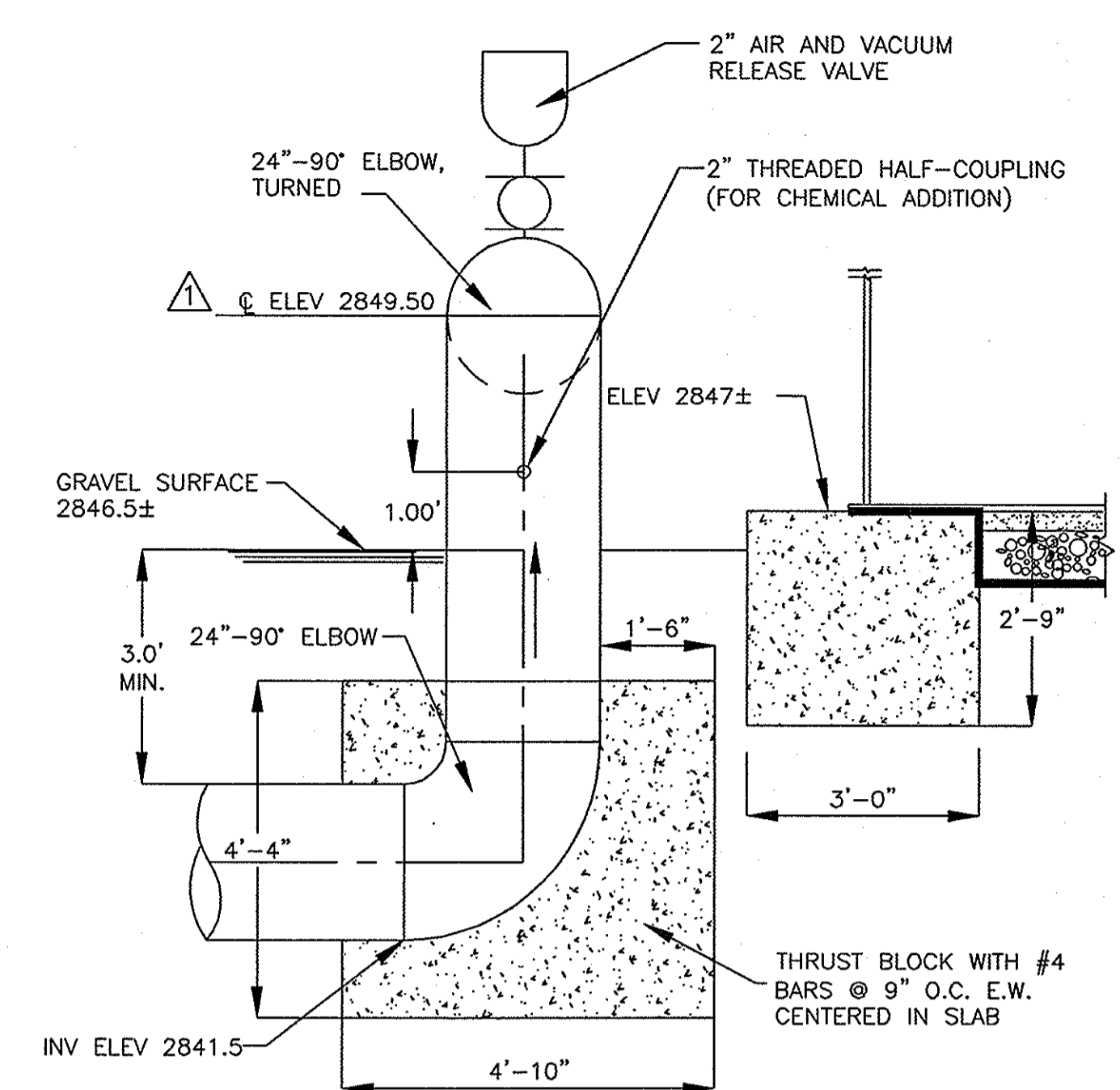
VINELAND II TANK
2.00 MG TANK

RESERVOIR PLAN AND ELEVATION

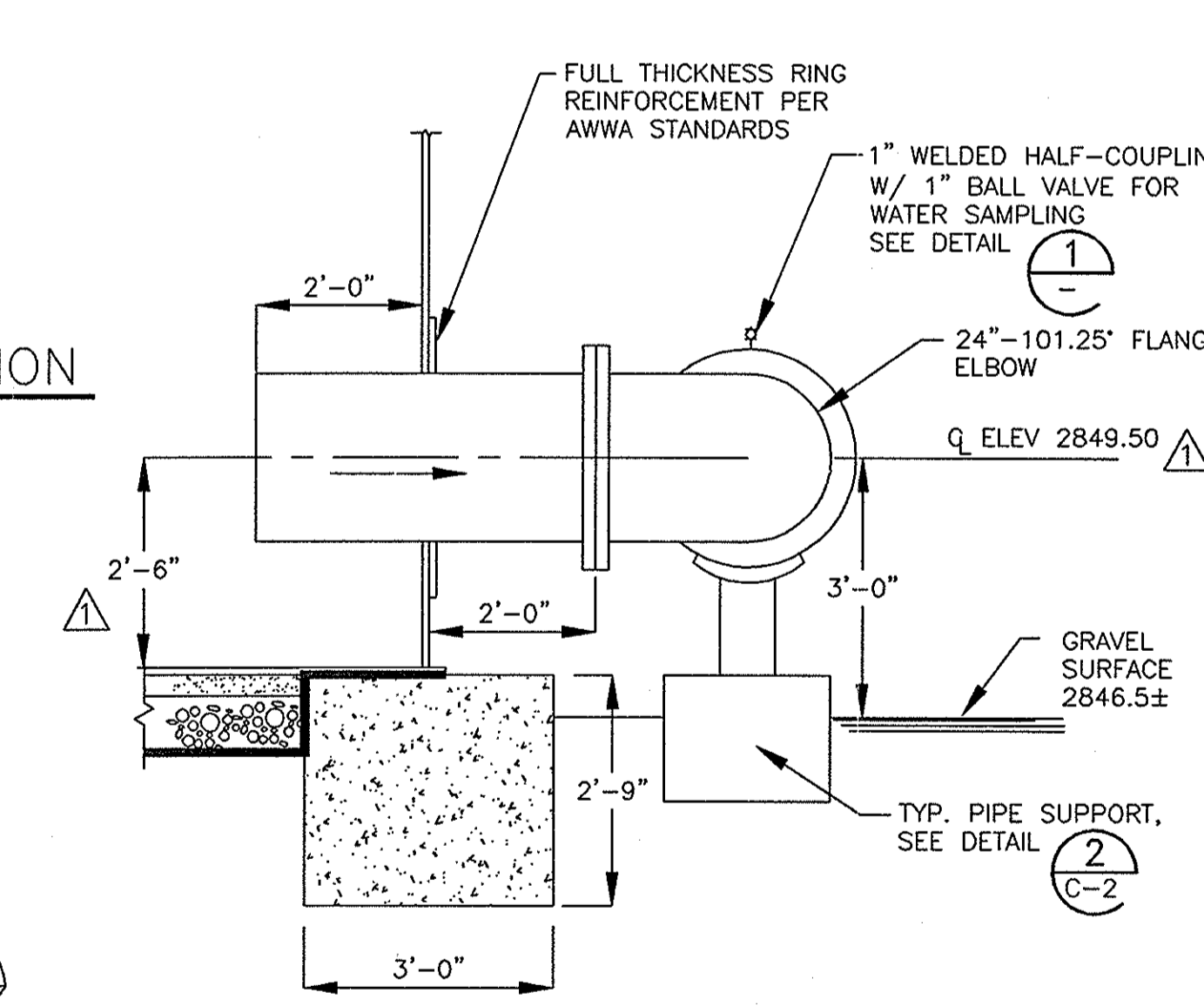
Drawing No. C-2
Sheet 4 of 9



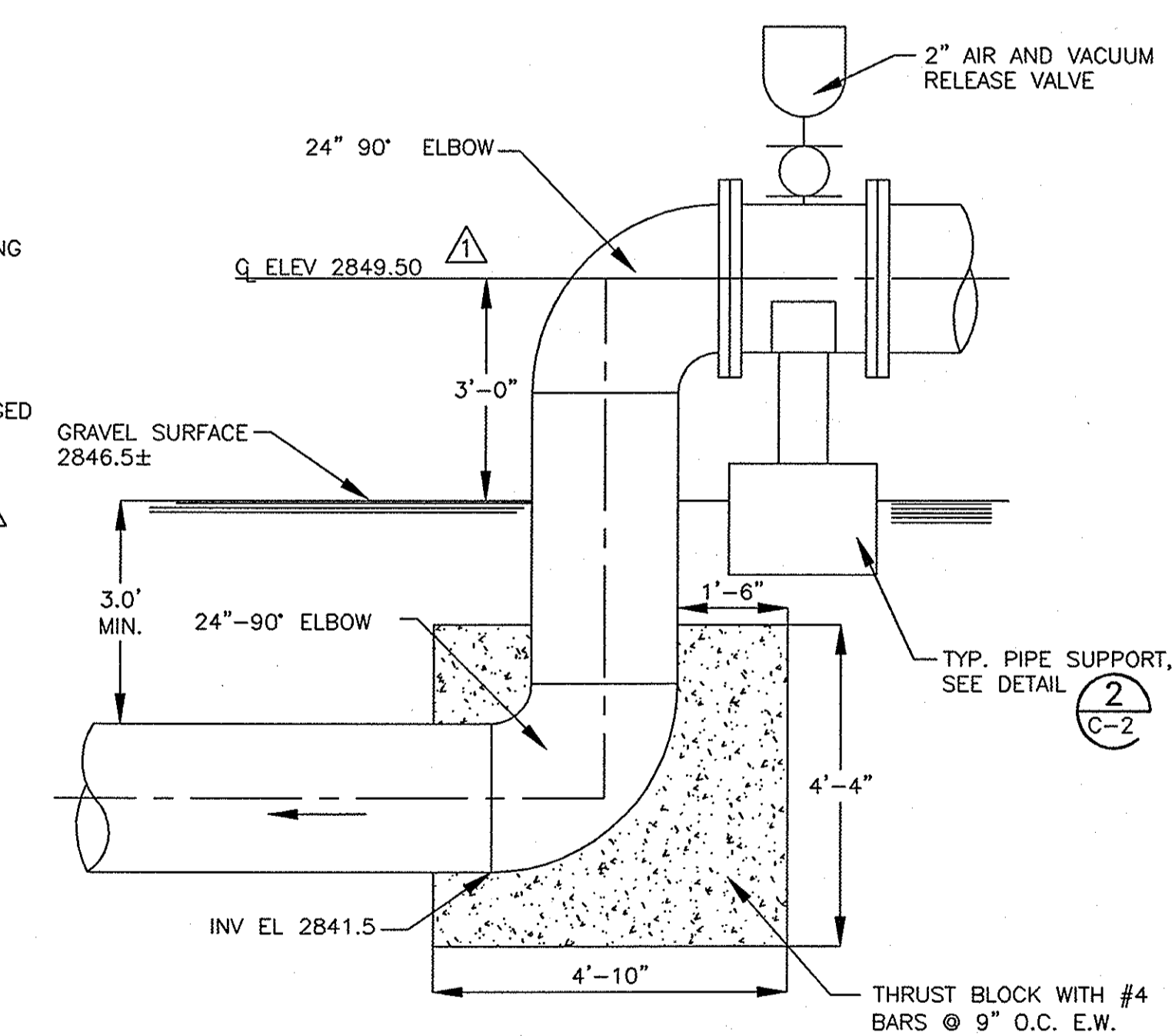
A SECTION - 24" INLET
SCALE: 1/2" = 1'-0"



B SECTION - 24" INLET
SCALE: 1/2" = 1'-0"

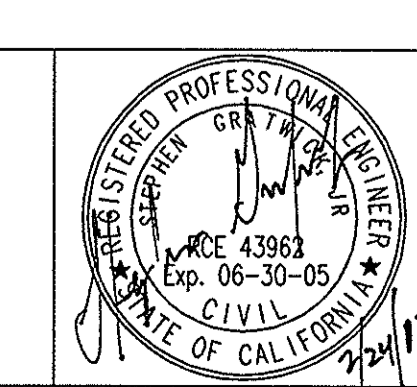


C SECTION - 24" OUTLET
SCALE: 1/2" = 1'-0"



D SECTION - 24" OUTLET
SCALE: 1/2" = 1'-0"

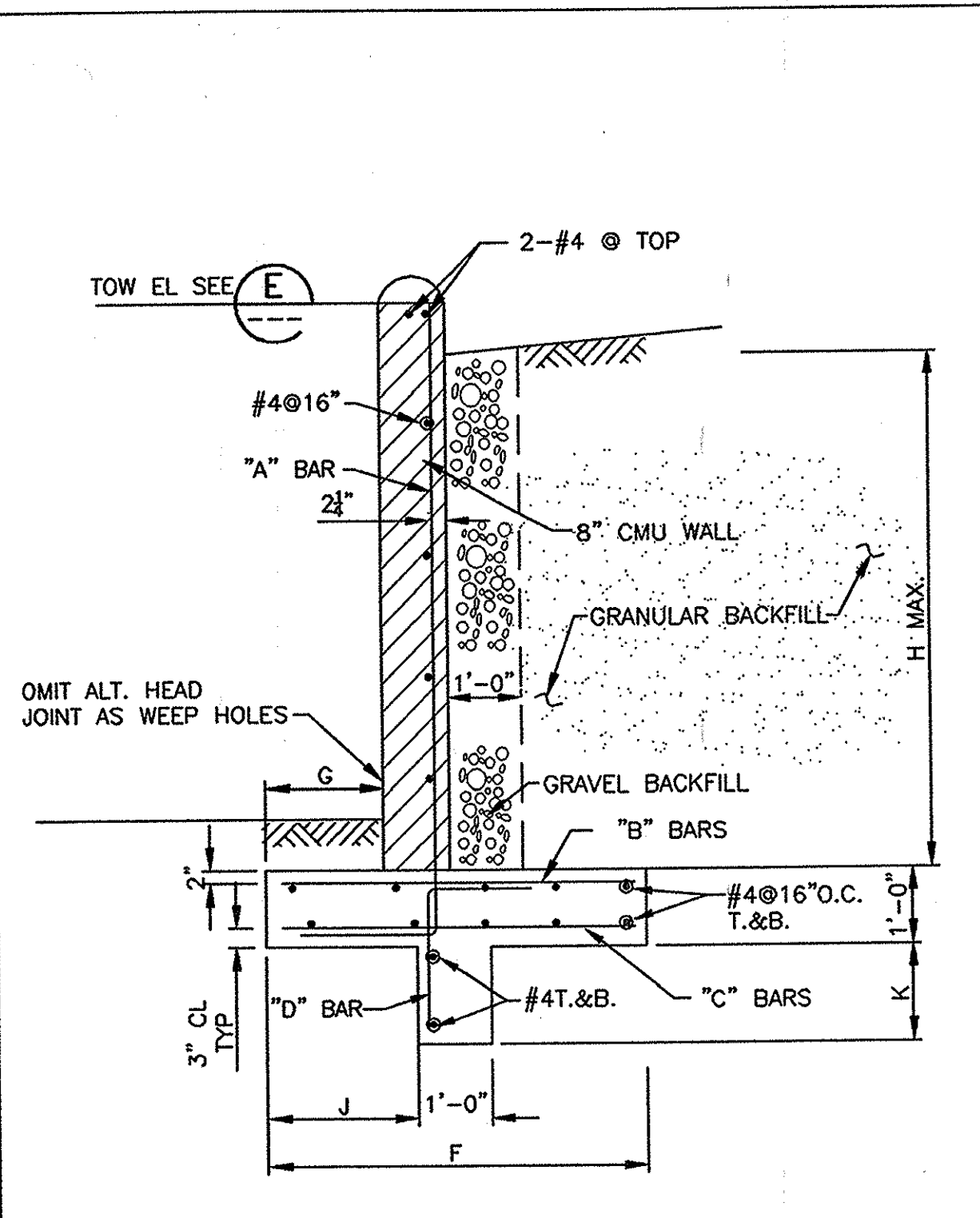
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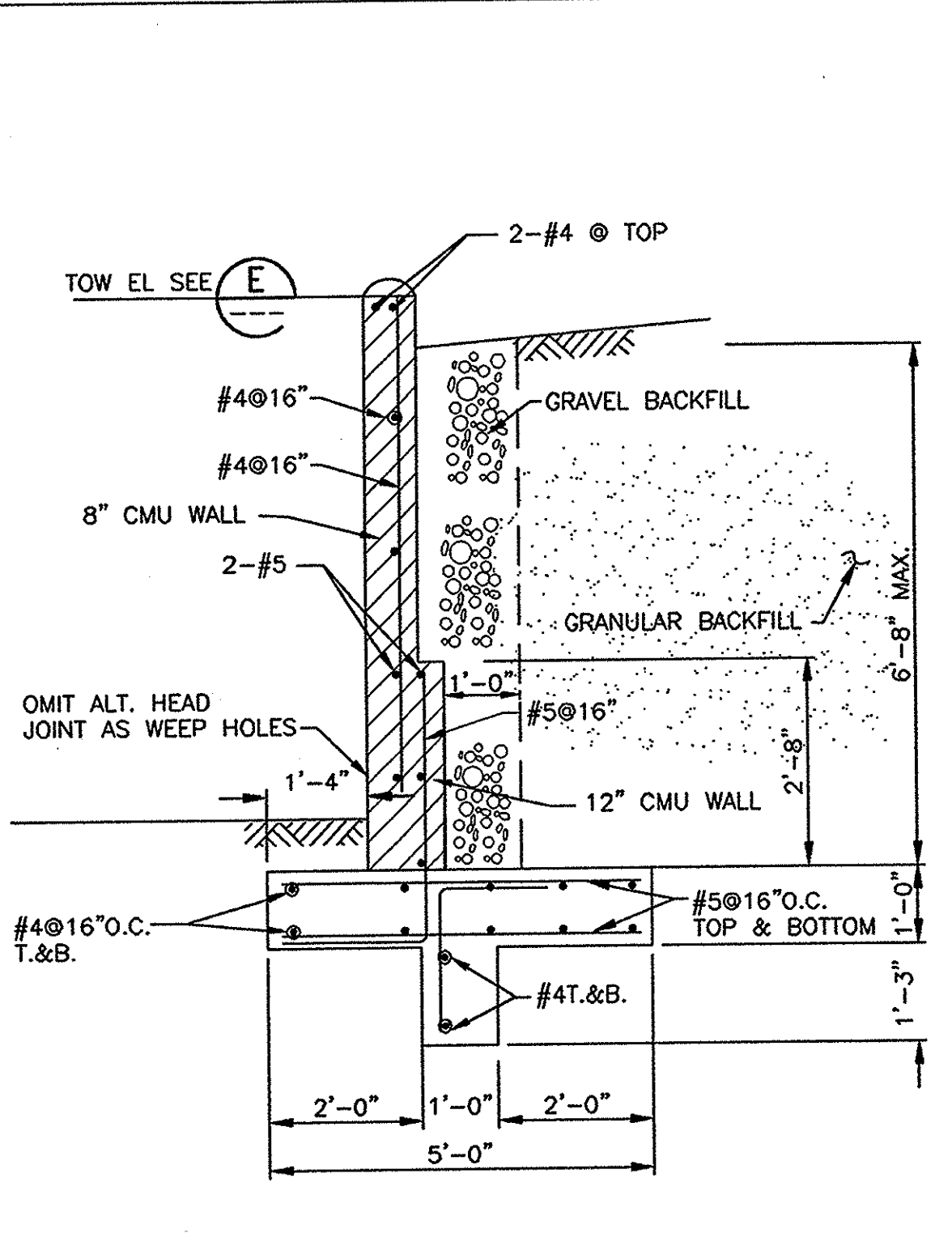
Job No.	723185	Designed	SG/IV	Benchmark	SEE SHEET G-1
Drawn	JV	Checked	SG	Scale	AS SHOWN
Approved	JCR	Reg. No.		By	
Date		1	2/03	REVISED 24" INLET & MISC. DIMENSIONS	SG
		Rev	Date	Description	By

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA
District Engineer: *J.P. [Signature]*
R.C.E. No. 18034
Date: 2/24/03

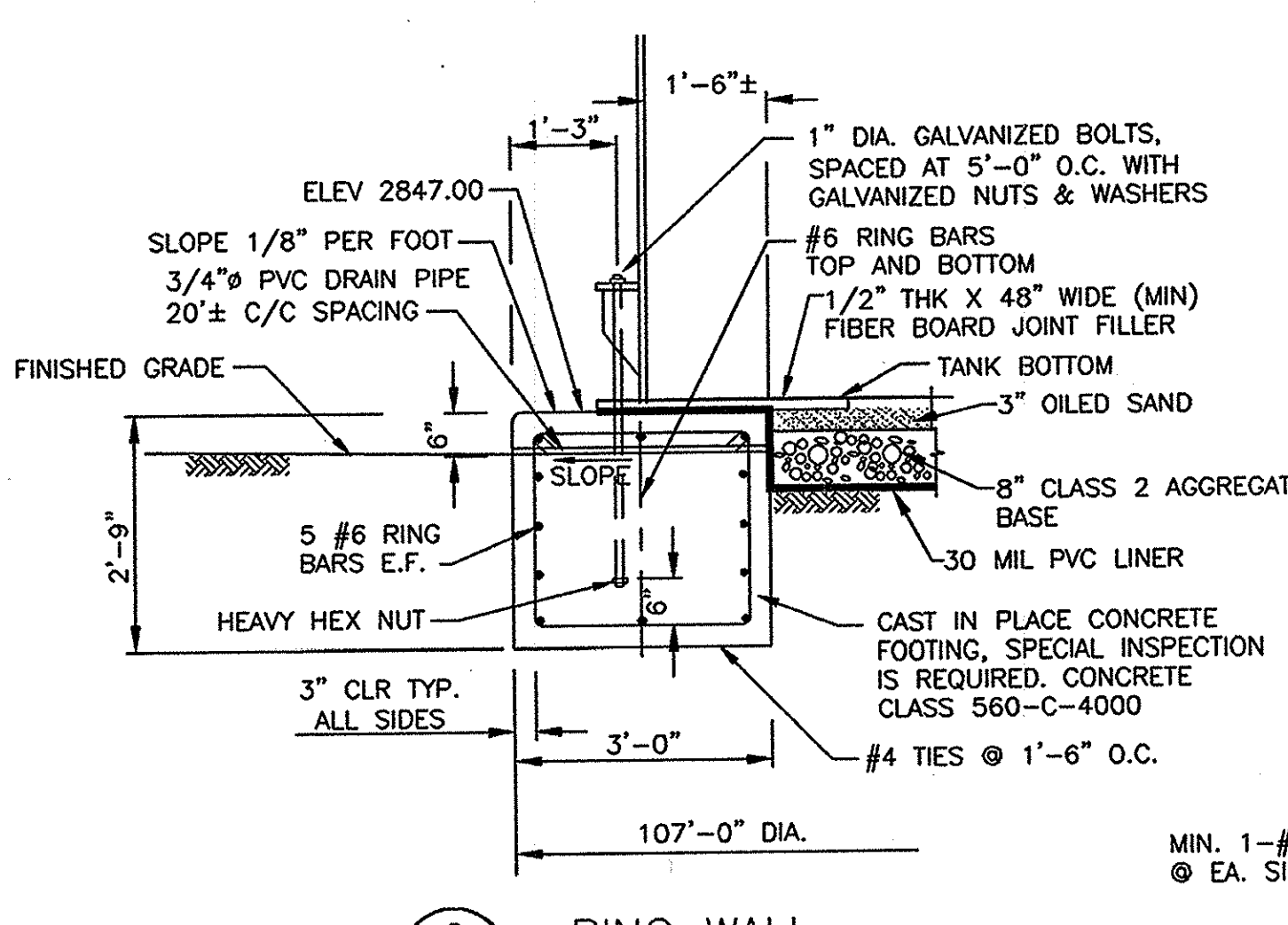
VINELAND II TANK
2.00 MG TANK
PIPING PLANS AND MECHANICAL DETAILS
Drawing No. C-3
Sheet 5 of 9



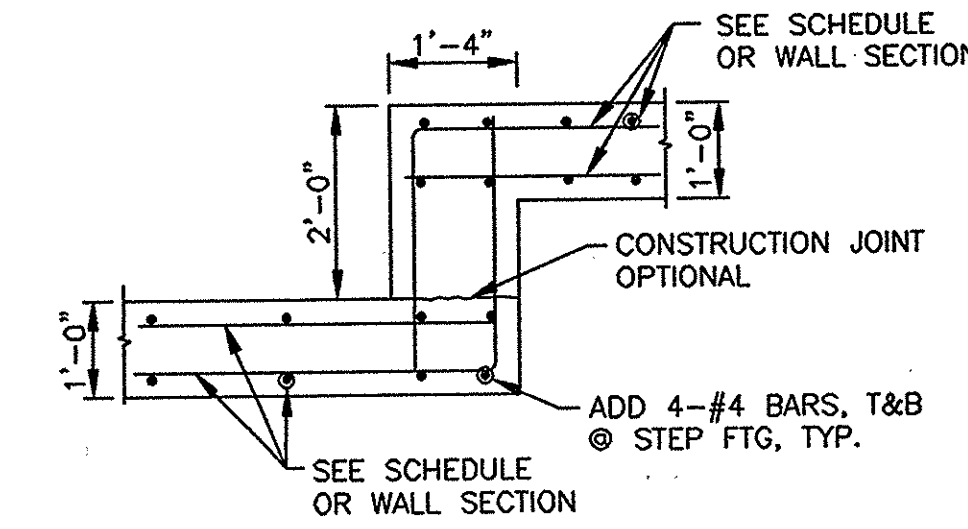
A SECTION - RETAINING WALL TYPE I & II
SCALE: 1/2"=1'-0"



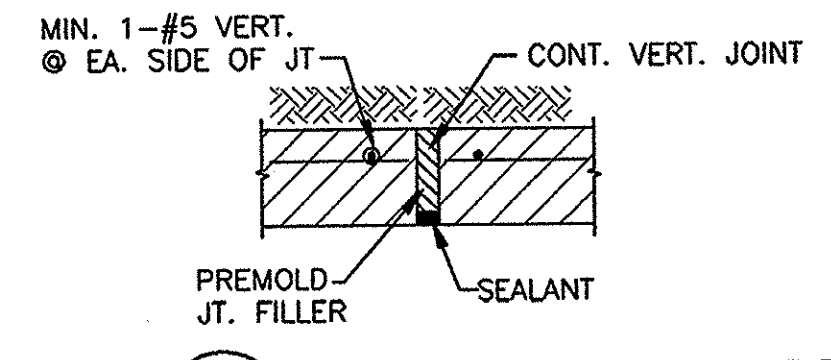
B SECTION - RETAINING WALL TYPE III
SCALE: 1/2"=1'-0"



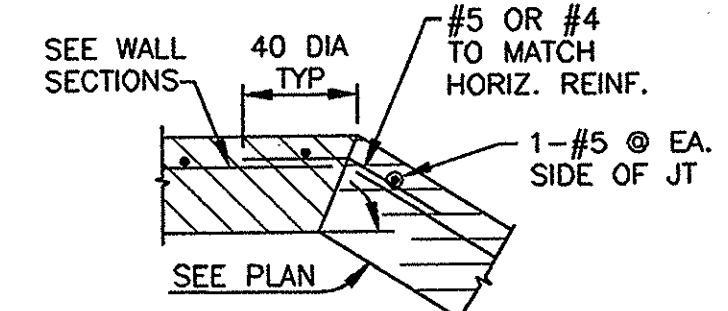
C RING WALL
SCALE: 1/2"=1'-0"



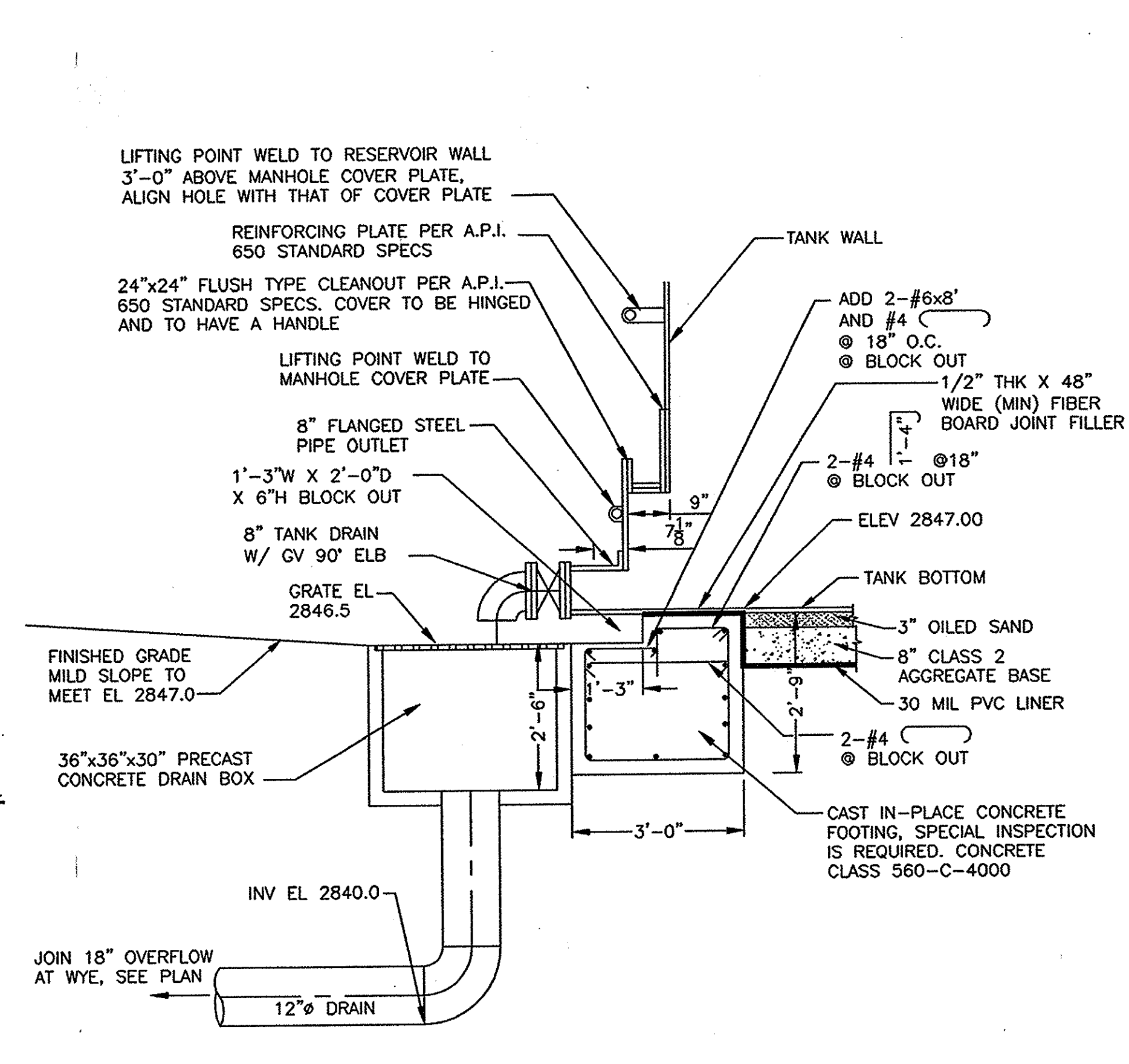
F STEP FOOTING DETAIL
SCALE: 1/2"=1'-0"



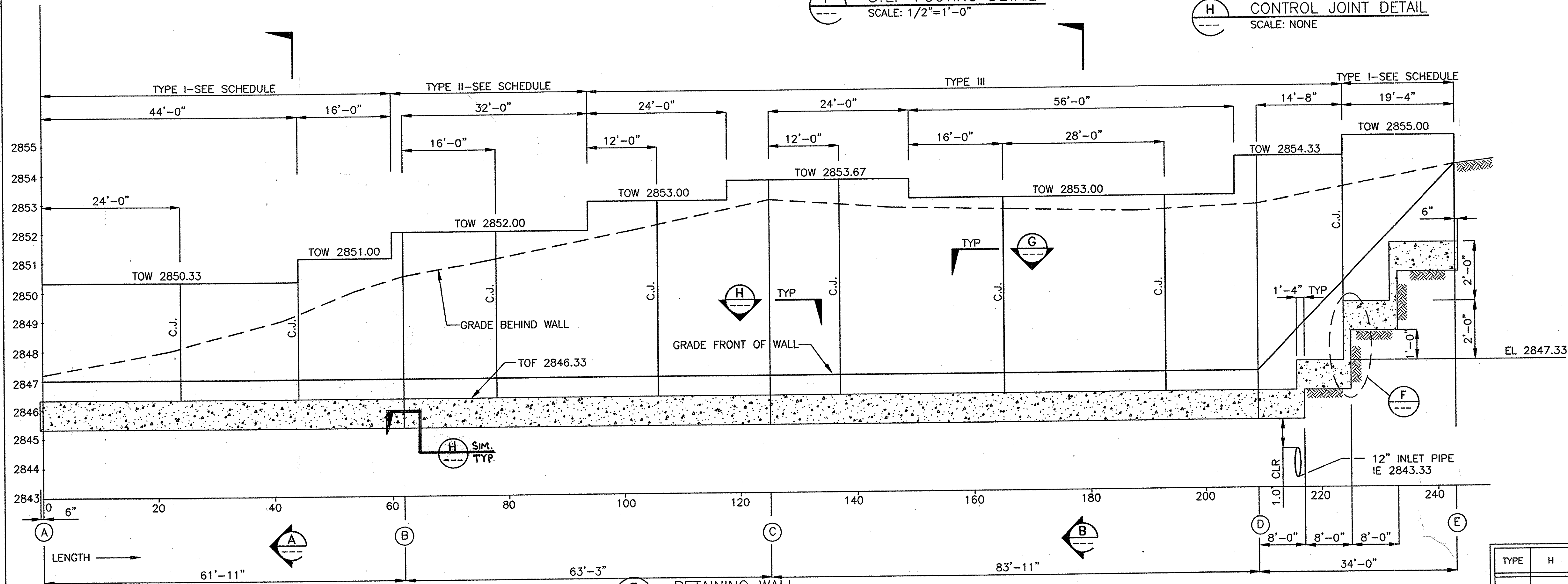
G CONTROL JOINT DETAIL
SCALE: NONE



H CONTROL JOINT DETAIL
SCALE: NONE



D RING WALL AT BLOCK OUT
SCALE: 1/2"=1'-0"



E RETAINING WALL
SCALE: HOR 1"=10'
VERT 1"=2'

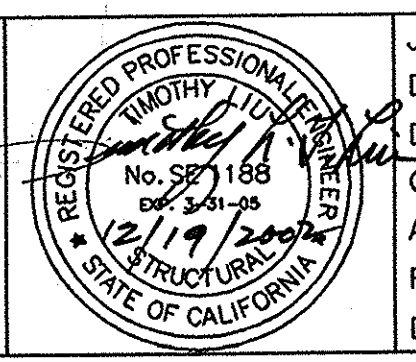
C.J. = CONTROL JOINT
TOW = TOP OF WALL
TOF = TOP OF FOOTING

SCHEDULE FOR RETAINING WALL SECTION

TYPE	H	"A" BAR	"B" BAR	"C" BAR	"D" BAR	F	G	J	K
I	4'-0"	#4@16"	#4@16"	#4@16"	-	3'-0"	0'-8"	-	-
II	5'-0"	#5@24"	#5@16"	#4@16"	#4@16"	4'-0"	1'-4"	1'-6"	1'-0"

s:\vml\ca\beowd\vineland\c-04.dwg

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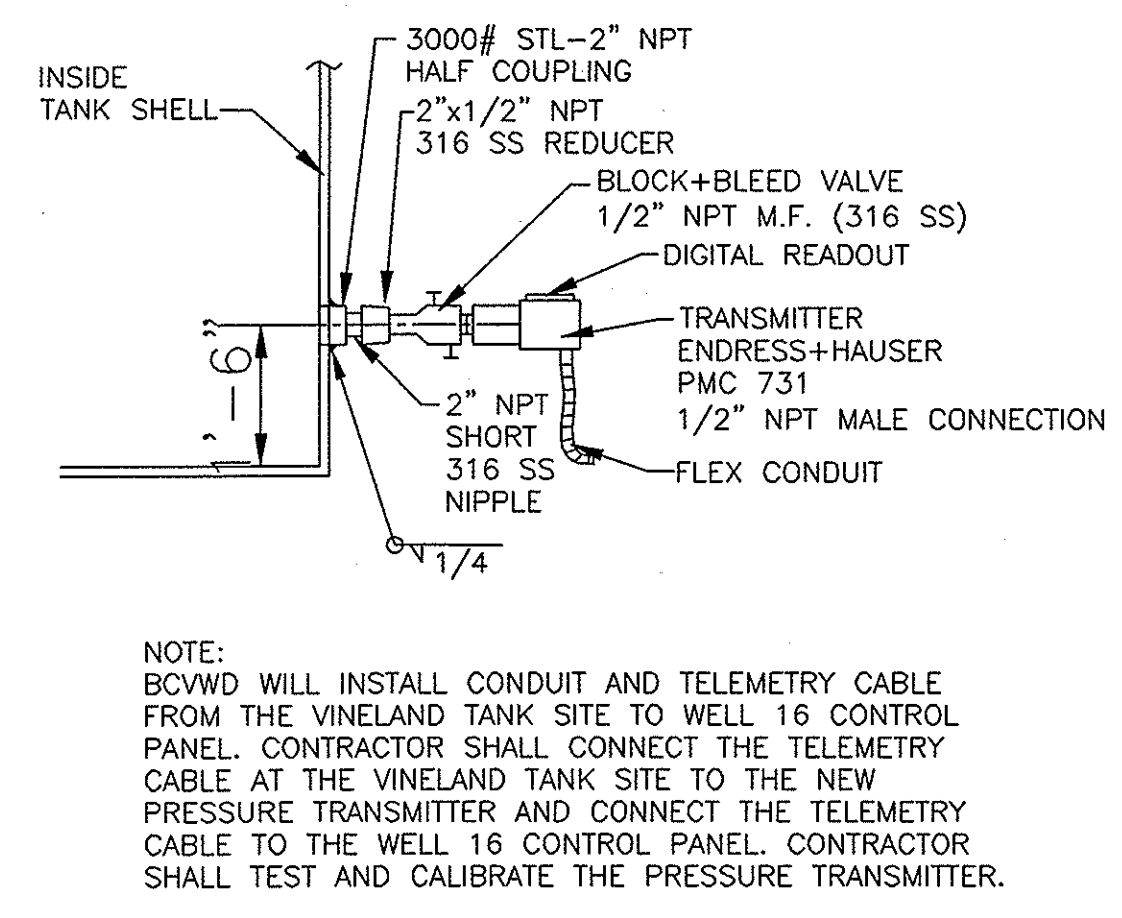
Job No.	723185		
Designed	SG/JW		
Drawn	JV		
Checked	SG		
Approved	JCR		
Reg. No.			
Date			
Rev	Date	Description	By

Benchmark
SEE SHEET G-1
Scale
AS SHOWN

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA
[Signature]
District Engineer
12/15/02
R.C.E. No. 18034

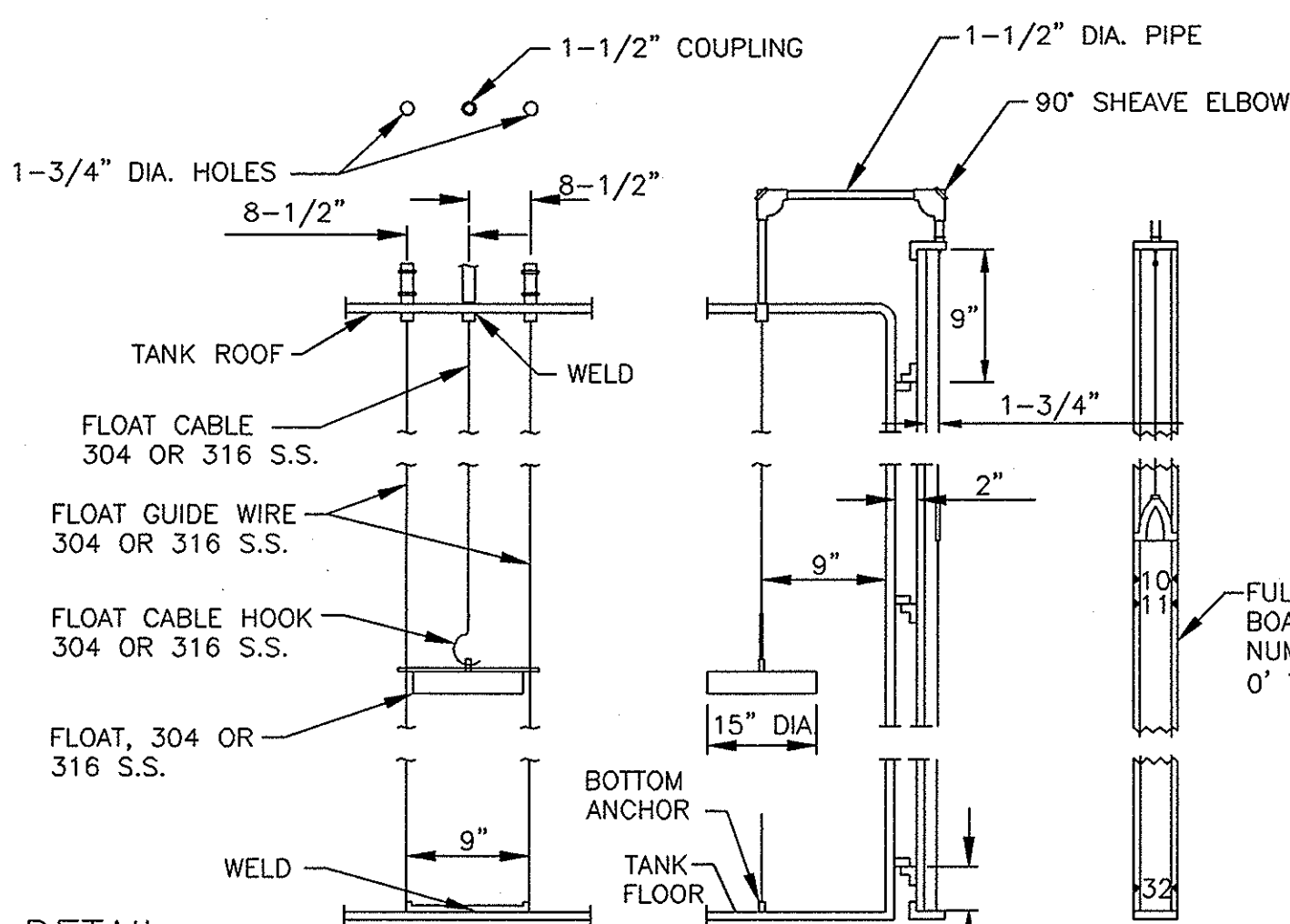
VINELAND II TANK
2.00 MG TANK
CIVIL AND STRUCTURAL DETAILS

Drawing No.
C-4
Sheet 6 of 9

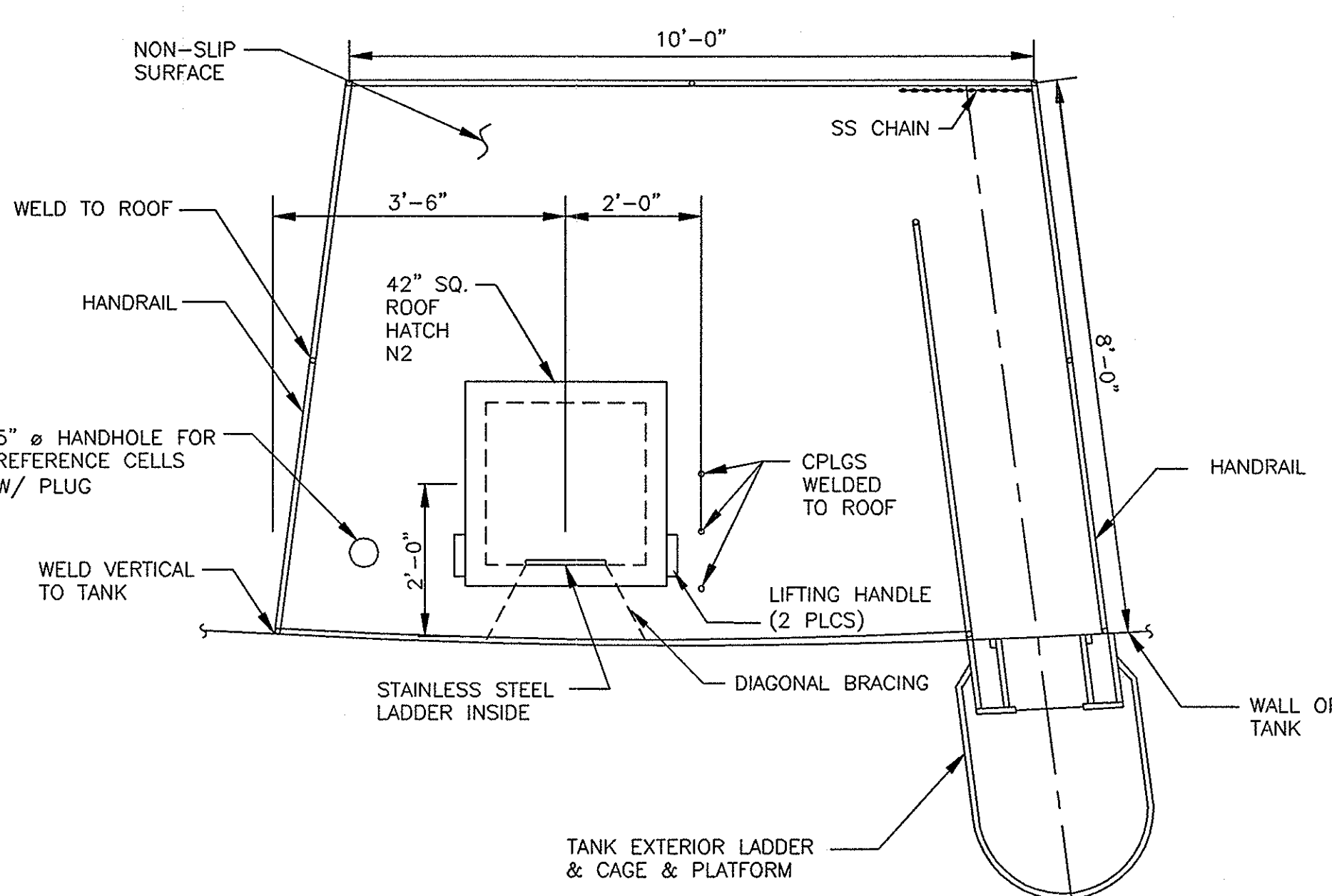


NOTE: BCVWD WILL INSTALL CONDUIT AND TELEMETRY CABLE FROM THE VINELAND TANK SITE TO WELL 16 CONTROL PANEL. CONTRACTOR SHALL CONNECT THE TELEMETRY CABLE AT THE VINELAND TANK SITE TO THE NEW PRESSURE TRANSMITTER AND CONNECT THE TELEMETRY CABLE TO THE WELL 16 CONTROL PANEL. CONTRACTOR SHALL TEST AND CALIBRATE THE PRESSURE TRANSMITTER.

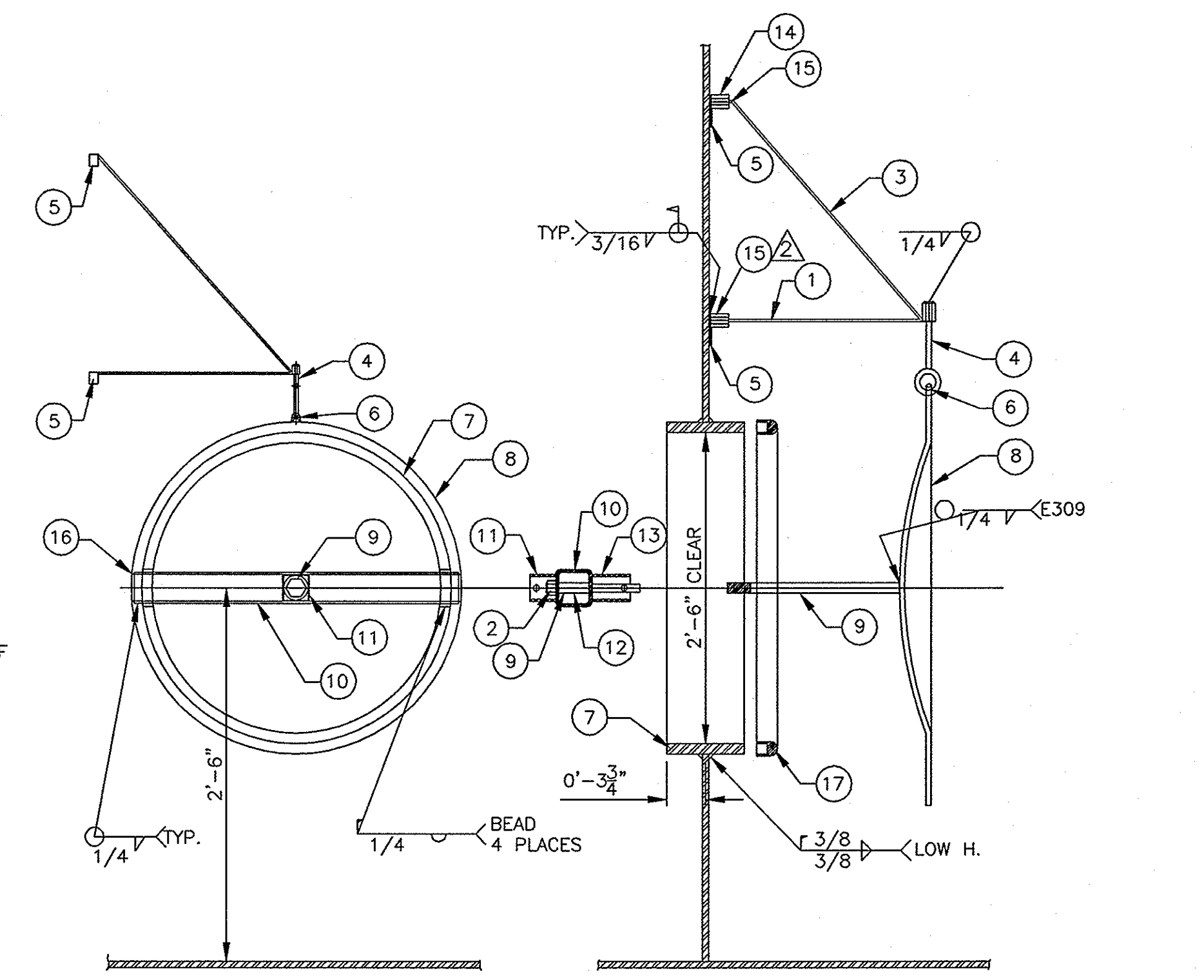
1 PRESSURE TRANSMITTER MOUNTING DETAIL
SCALE: NONE



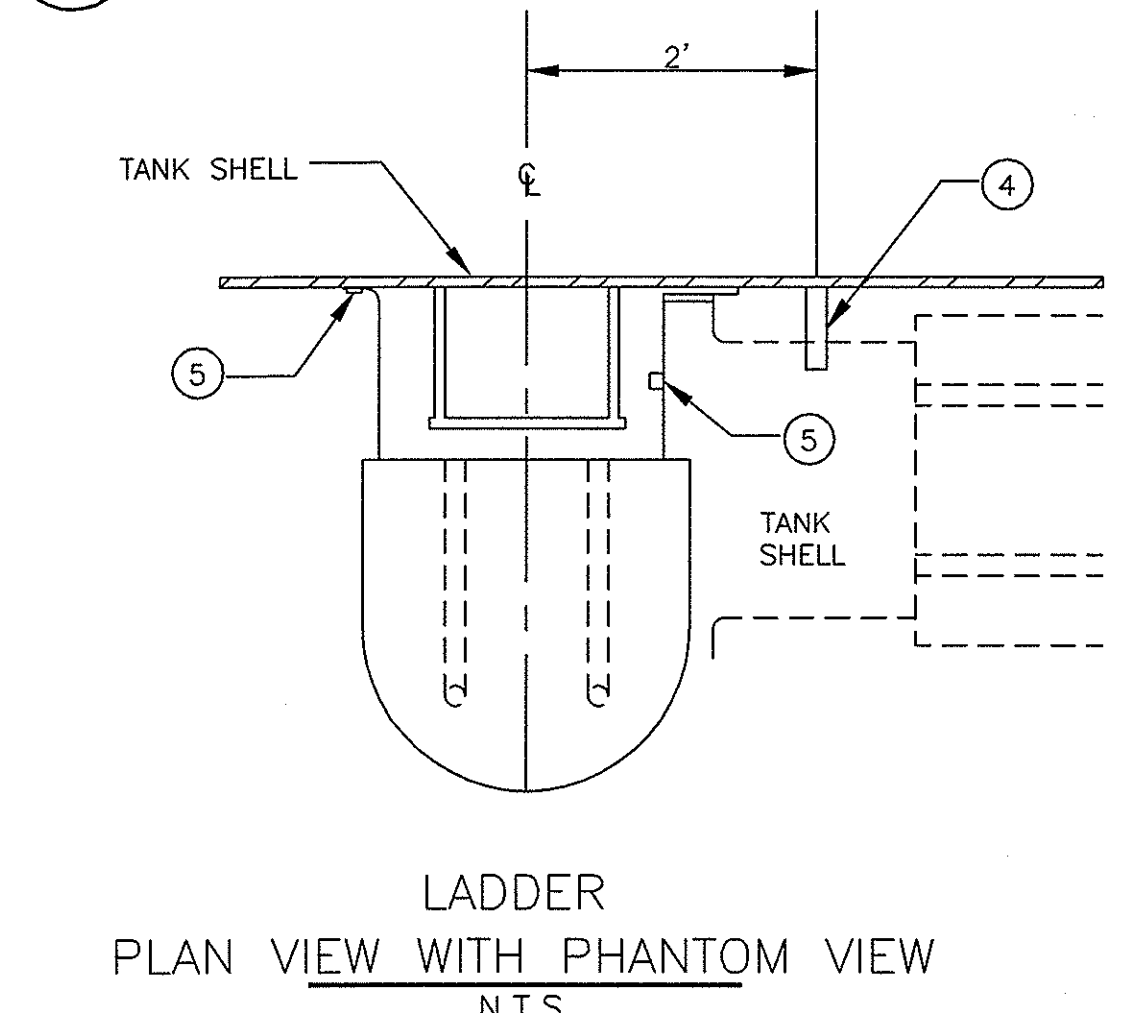
2 LIQUID LEVEL INDICATOR
SCALE: NONE



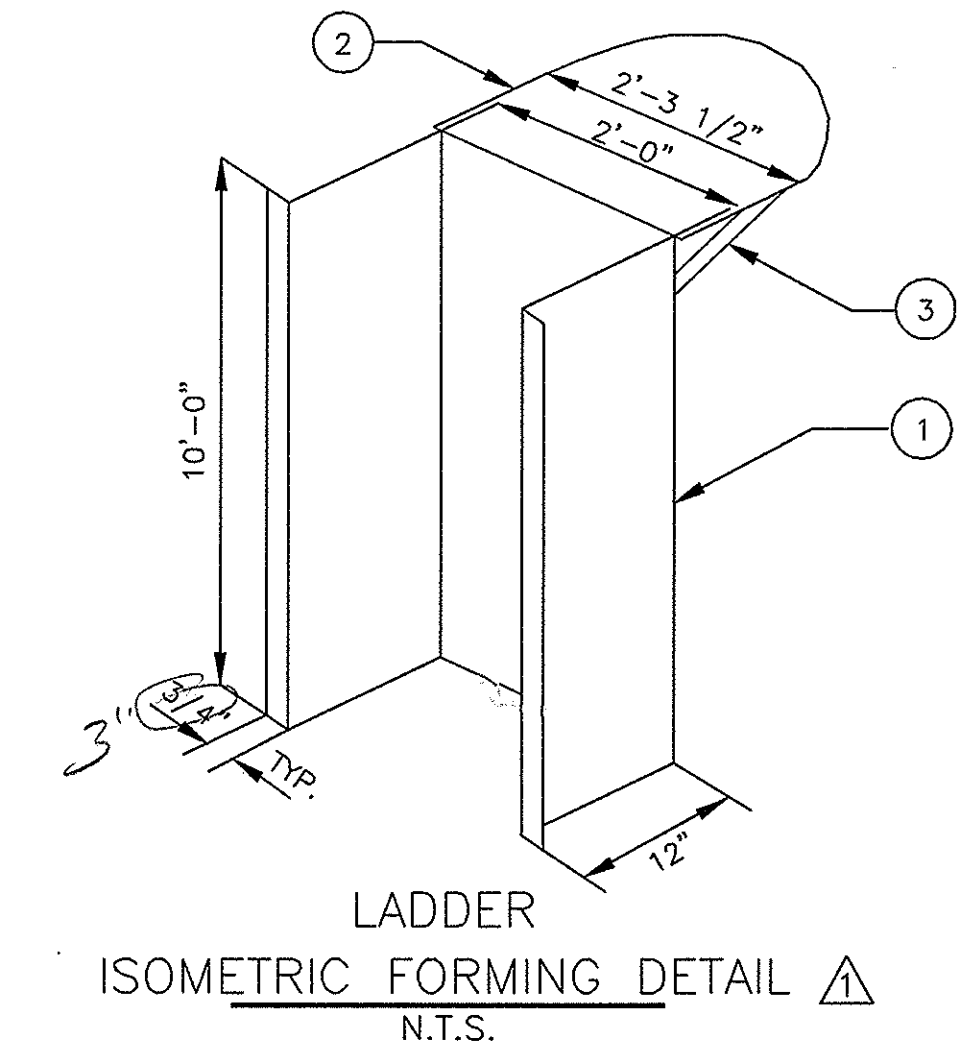
3 LADDER AND ACCESS HATCH DETAIL
SCALE: NONE



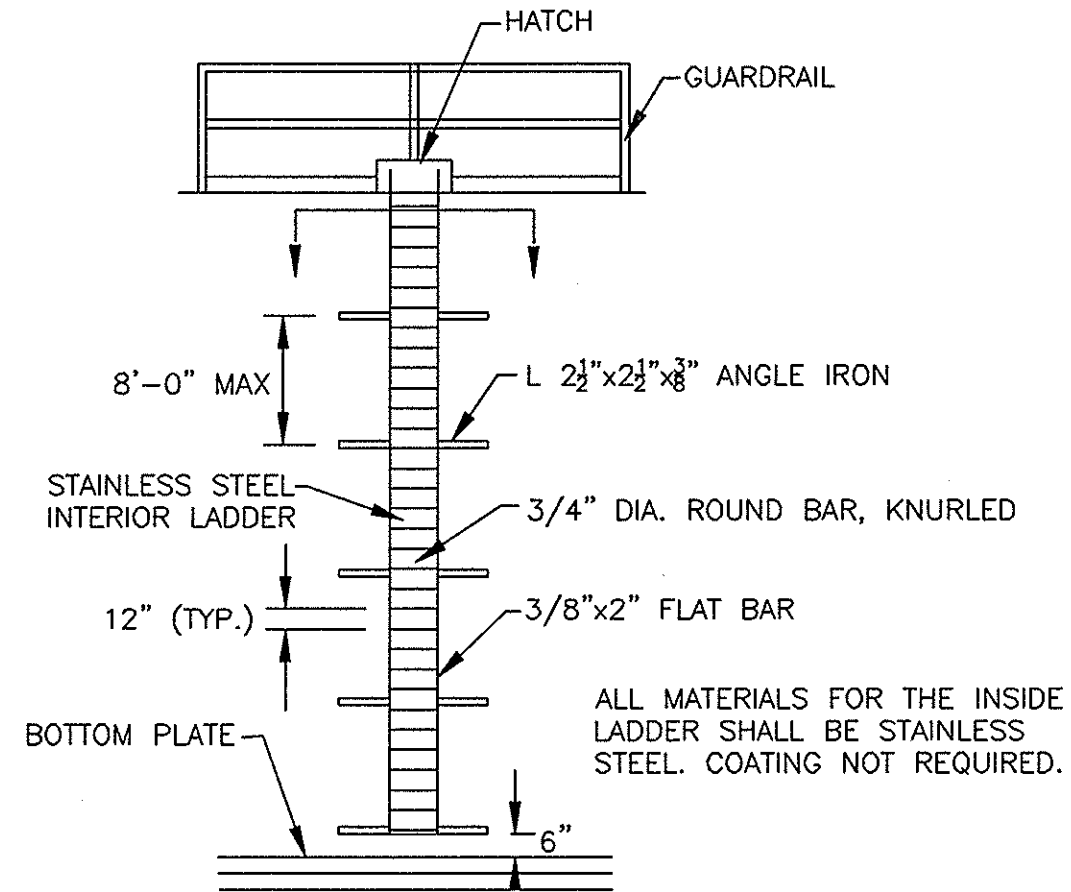
4 MANWAY DETAIL
SCALE: NONE



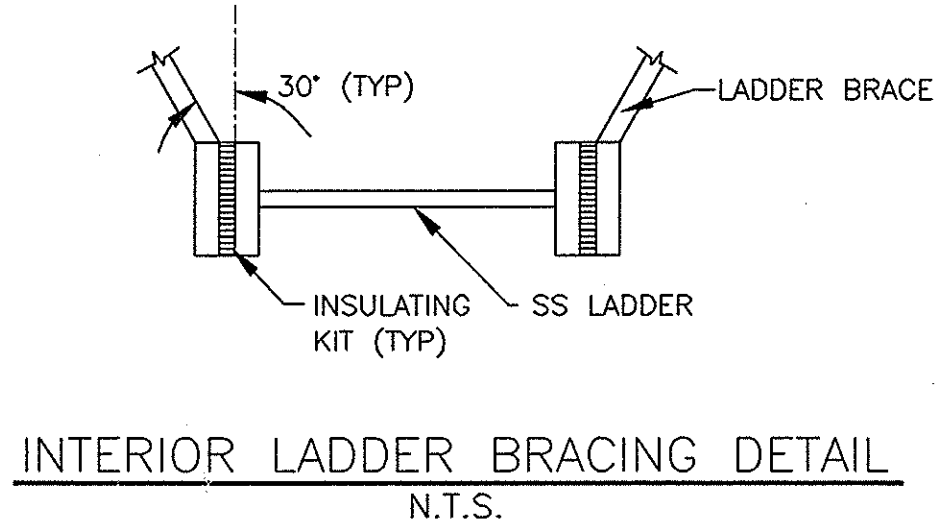
LADDER
PLAN VIEW WITH PHANTOM VIEW
N.T.S.



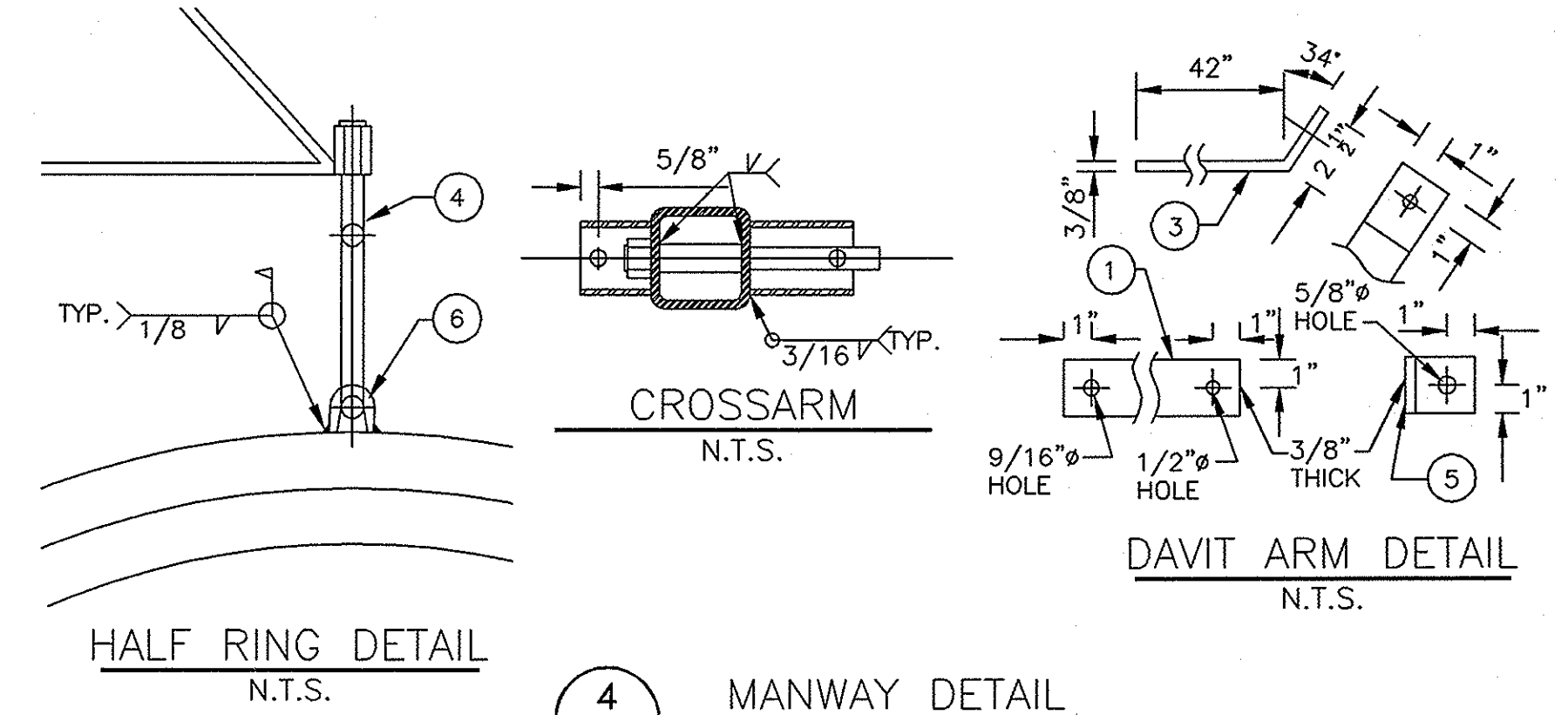
LADDER
ISOMETRIC FORMING DETAIL
N.T.S.



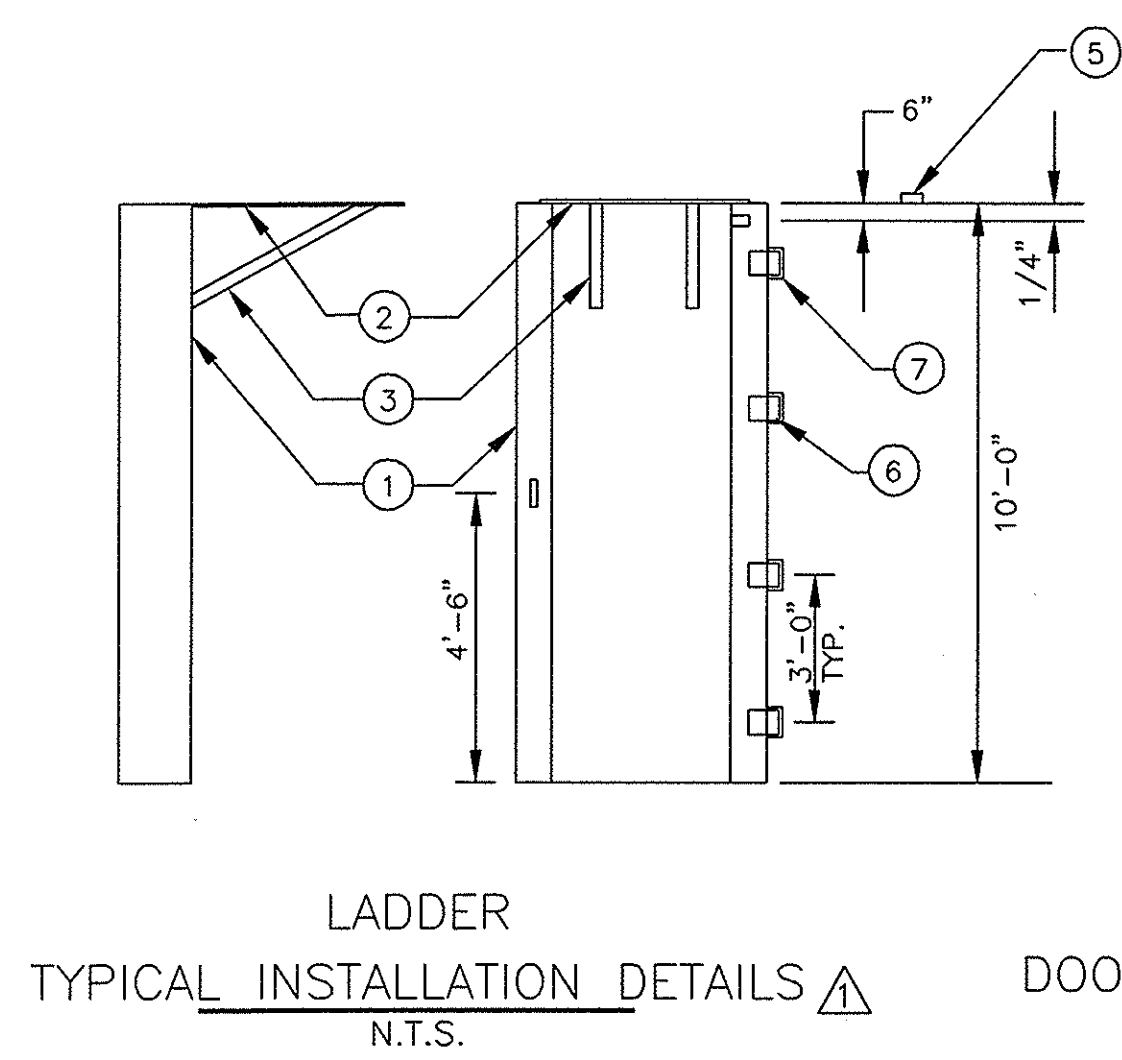
5 INTERIOR LADDER DETAIL
SCALE: NONE



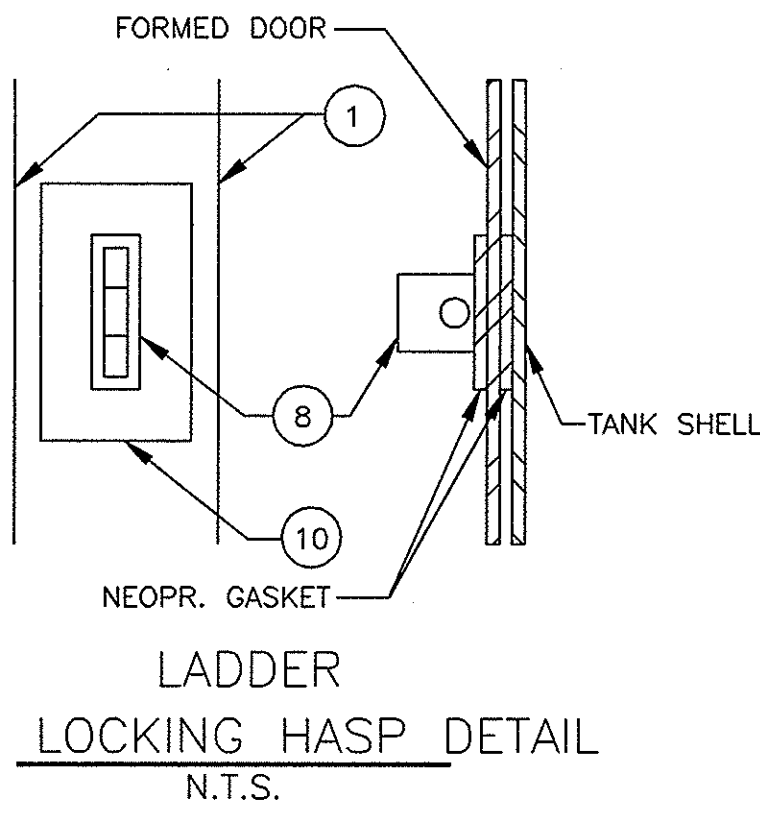
INTERIOR LADDER BRACING DETAIL
N.T.S.



DAVIT ARM DETAIL
N.T.S.



LADDER
TYPICAL INSTALLATION DETAILS
N.T.S.



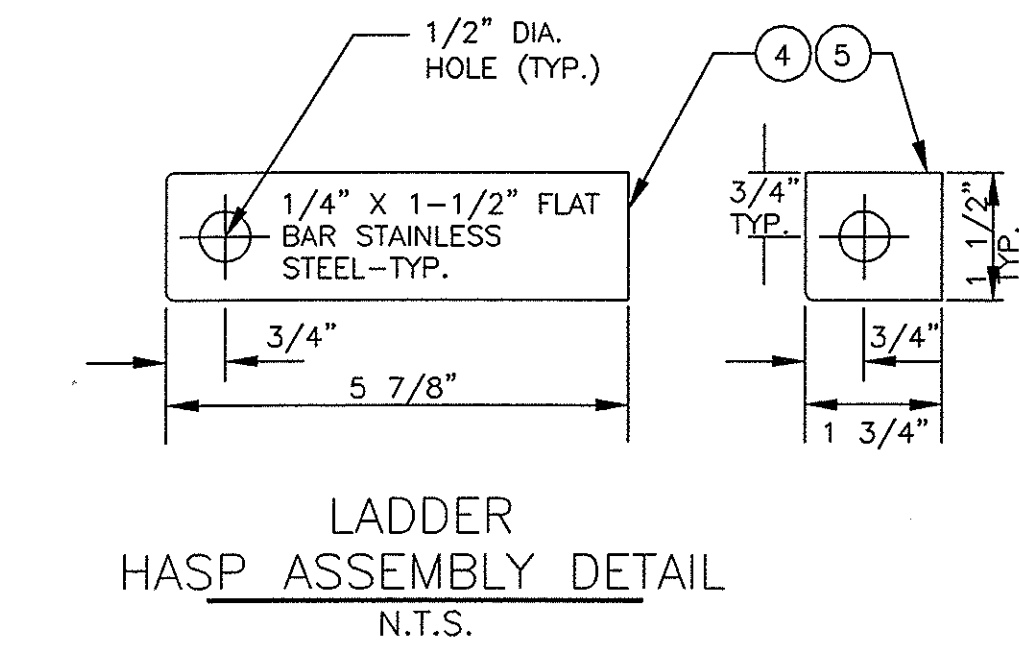
LADDER
DOOR LOCKING HASP DETAIL
N.T.S.

EXTERIOR LADDER: MATERIAL LIST

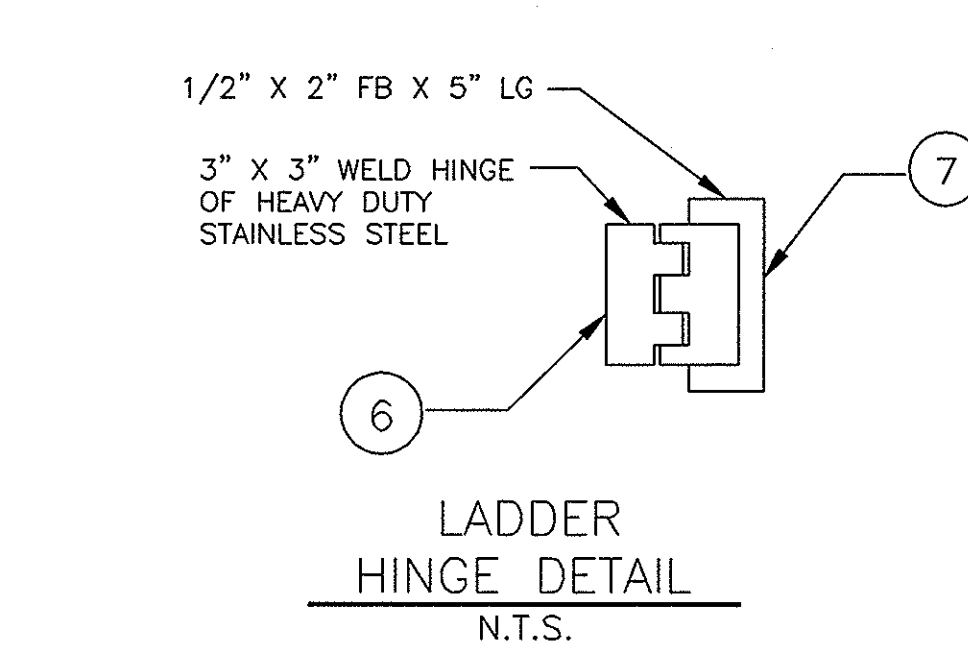
ITEM	DESCRIPTION	MATL.	REQ'D
1	3/16" PLATE X 4'-6 1/2" X 7'-0" LG. FORMED AS SHOWN	A36	1
2	3/16" PLATE X 27 1/2" X 28 1/4" LG. CUT TO MATCH BOTTOM HOOP	A36	1
3	1 1/8" O.D. THIN WALL TUBING X 21 1/8" LG. CUT END @ 30" & 60"	A120	2
4	1/4" X 1 1/2" FB X 5 7/8" LG. W/ HOLE AS SHOWN	SS304	1
5	1/4" X 1 1/2" FB X 1 3/4" LG. W/ HOLE AS SHOWN	SS304	1
6	3" X 3" HEAVY DUTY BLANK WELD HINGE	SS18-8	2
7	1/2" X 2" FB X 5" LG.	SS304	3
8	3/8" X 1 1/2" FB X 2" LG. W/ 1/2" DIA. HOLE @ CENTER	SS304	2
9	1/4" X 3" GASKET X 4" LG.	NEOPR.	2
10	1/4" X 3" GASKET X 4" LG. W/ 1/2" X 1 3/4" SLOT	NEOPR.	2
11	3M CONTACT CEMENT	MANUF.	A.R.

MANWAY: MATERIAL LIST (NUMBER REQUIRED IS PER MANWAY)

ITEM	DESCRIPTION	MATL.	REQ'D
1	DAVIT ARM	SS304	1
2	HEAVY HEX NUT AND WASHER	SIBRNZ	1
3	DAVIT ARM SUPPORT	SS304	1
4	COVER PLATE SUPPORT, EYE BOLT	SS18-8	1
5	TANK MOUNT CLIP, ANGLE	SS304	2
6	HALF RING	SS18-8	1
7	30" I.D. MANWAY PENETRATION RING	A36	1
8	DISHED COVER PLATE	A36	1
9	CLOSURE BOLT	SS18-8	1
10	MANWAY CROSSARM	A500	1
11	VANDAL-PROOFING TUBE	A36	1
12	CROSSARM SLEEVE	SS304	1
13	MANWAY CROSSARM, TUBE	A36	1
14	1/2" BOLT	SS304	2
15	INSULATION KIT	NYLON	2
16	CROSSARM END	A36	2
17	C RING GASKET	EPDM	1



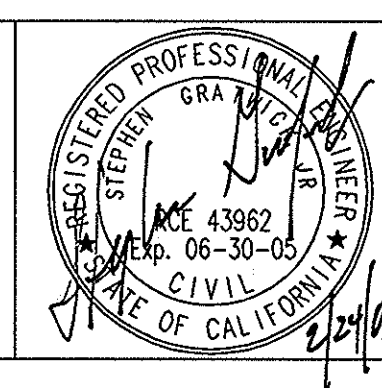
LADDER
HASP ASSEMBLY DETAIL
N.T.S.



LADDER
HINGE DETAIL
N.T.S.

s:\emise\ce\bowd\vineland\c-05.dwg

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PASADENA, CALIFORNIA 91124
(626) 440-4000



Job No. 723185

Designed SG
Drawn JV
Checked SG
Approved JCR
Reg. No. _____
Date _____

Rev	Date	Description
2	2/03	MISCELLANEOUS REVISIONS
1	11/02	ADDENDUM NO. 1

Benchmark
SEE SHEET G-1

Scale
AS SHOWN

By _____

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

[Signature]
District Engineer

R.C.E. No. 18034

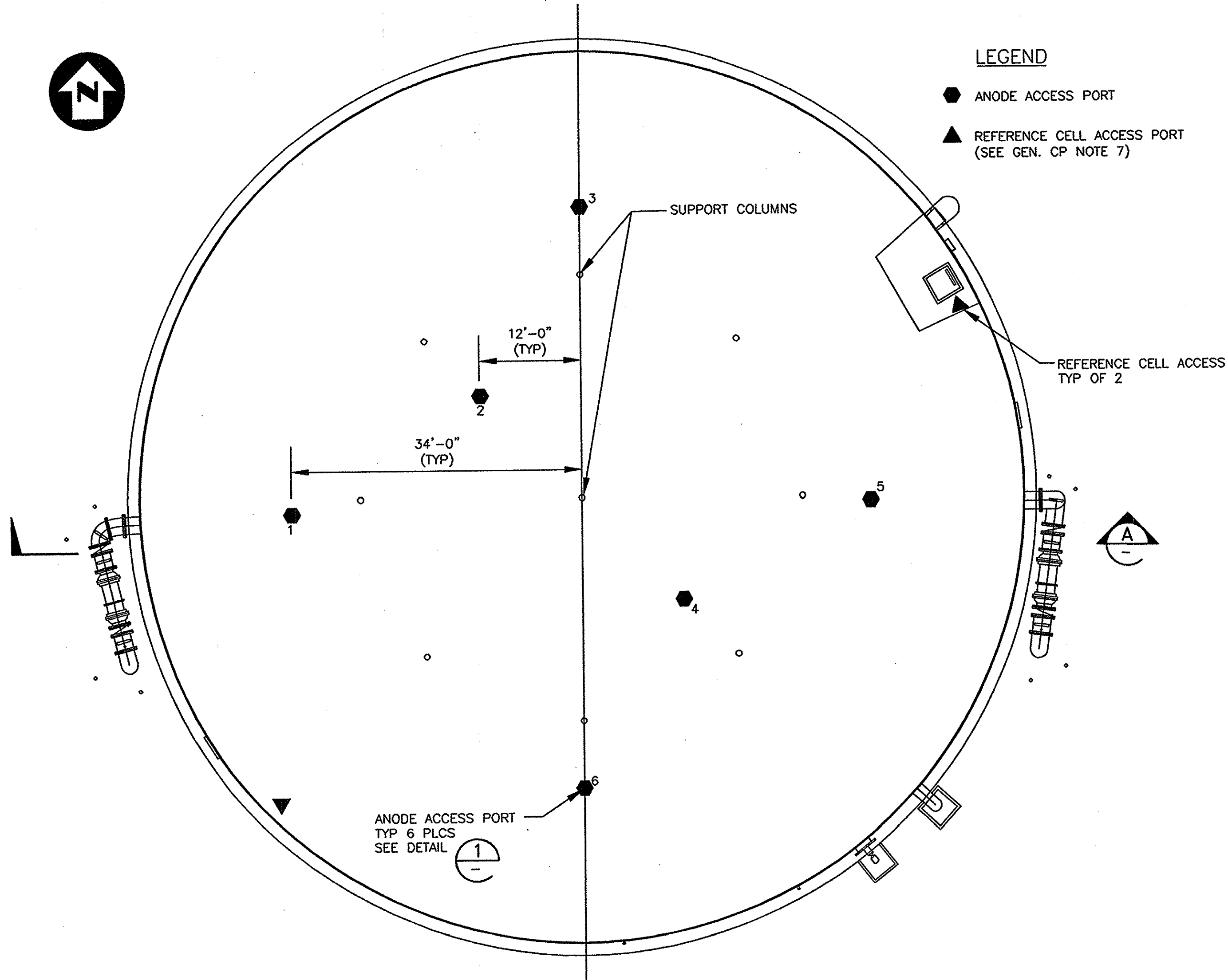
[Signature]
Date

VINELAND II TANK
2.00 MG TANK

MECHANICAL DETAILS

Drawing No.
C-5

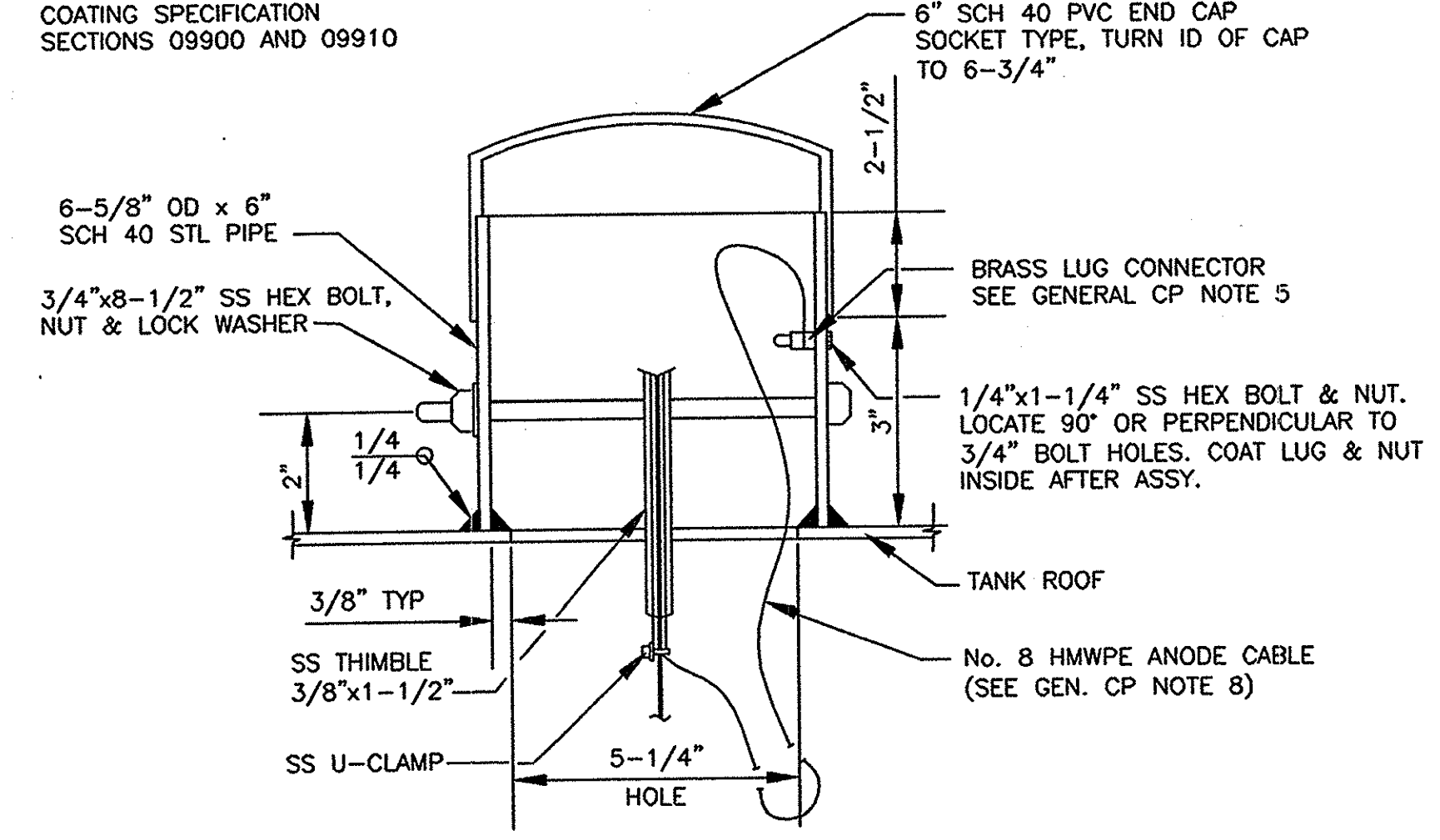
Sheet 7 of 9



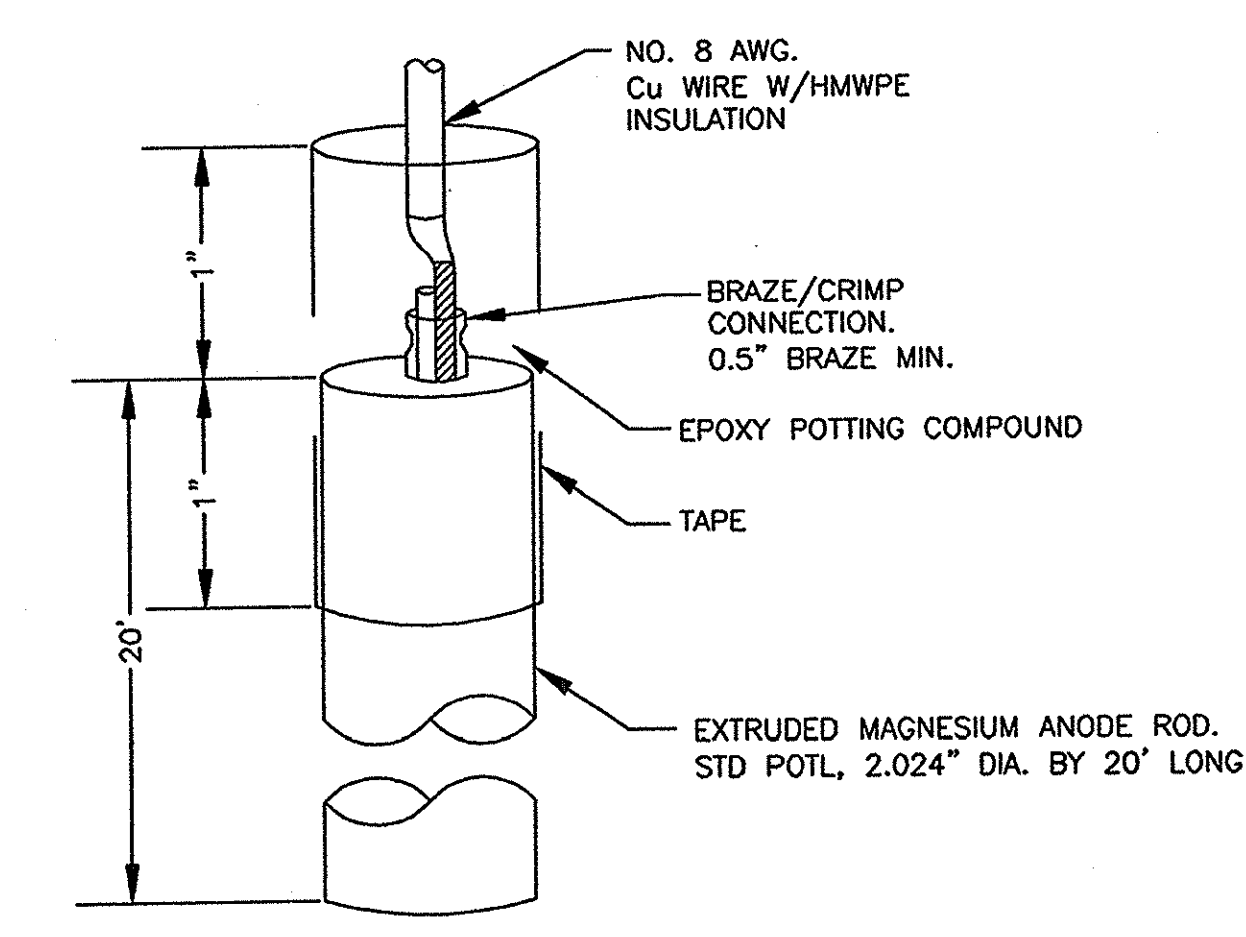
ANODE LOCATION PLAN
SCALE: NONE

LEGEND
 ● ANODE ACCESS PORT
 ▲ REFERENCE CELL ACCESS PORT (SEE GEN. CP NOTE 7)

NOTE:
 COAT INTERIOR AND EXTERIOR SURFACE OF PIPE SECTION PER COATING SPECIFICATION SECTIONS 09900 AND 09910



1 ANODE ACCESS PORT
SCALE: NONE

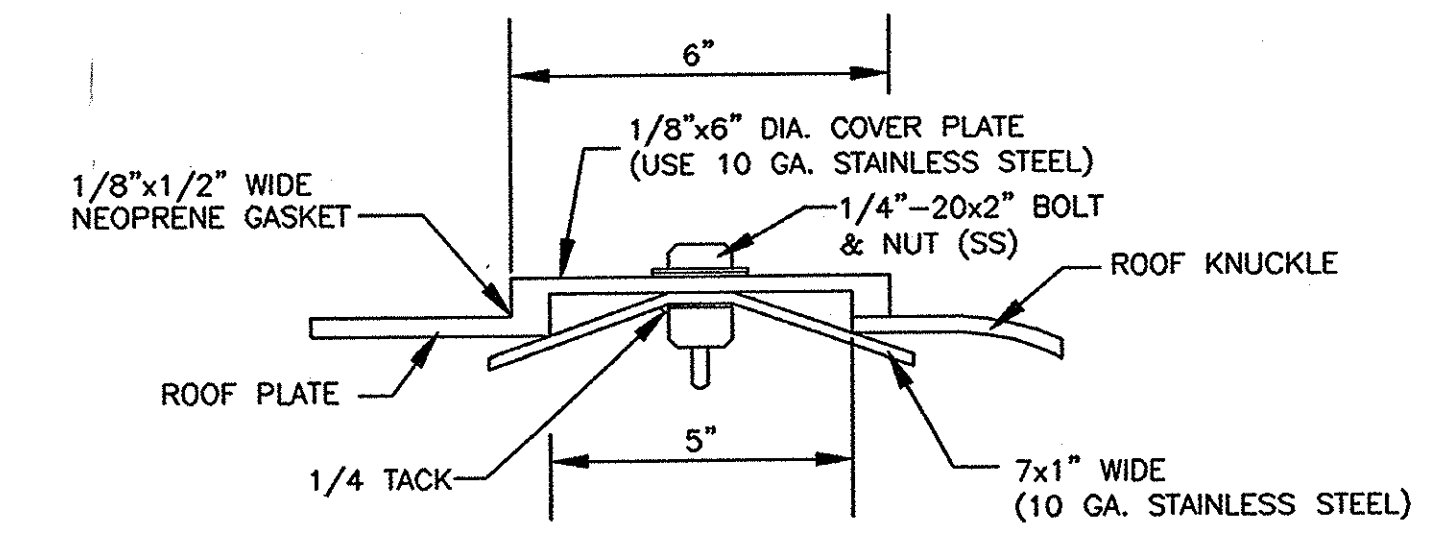


ANODE CHEMICAL COMPOSITION % BY WEIGHT

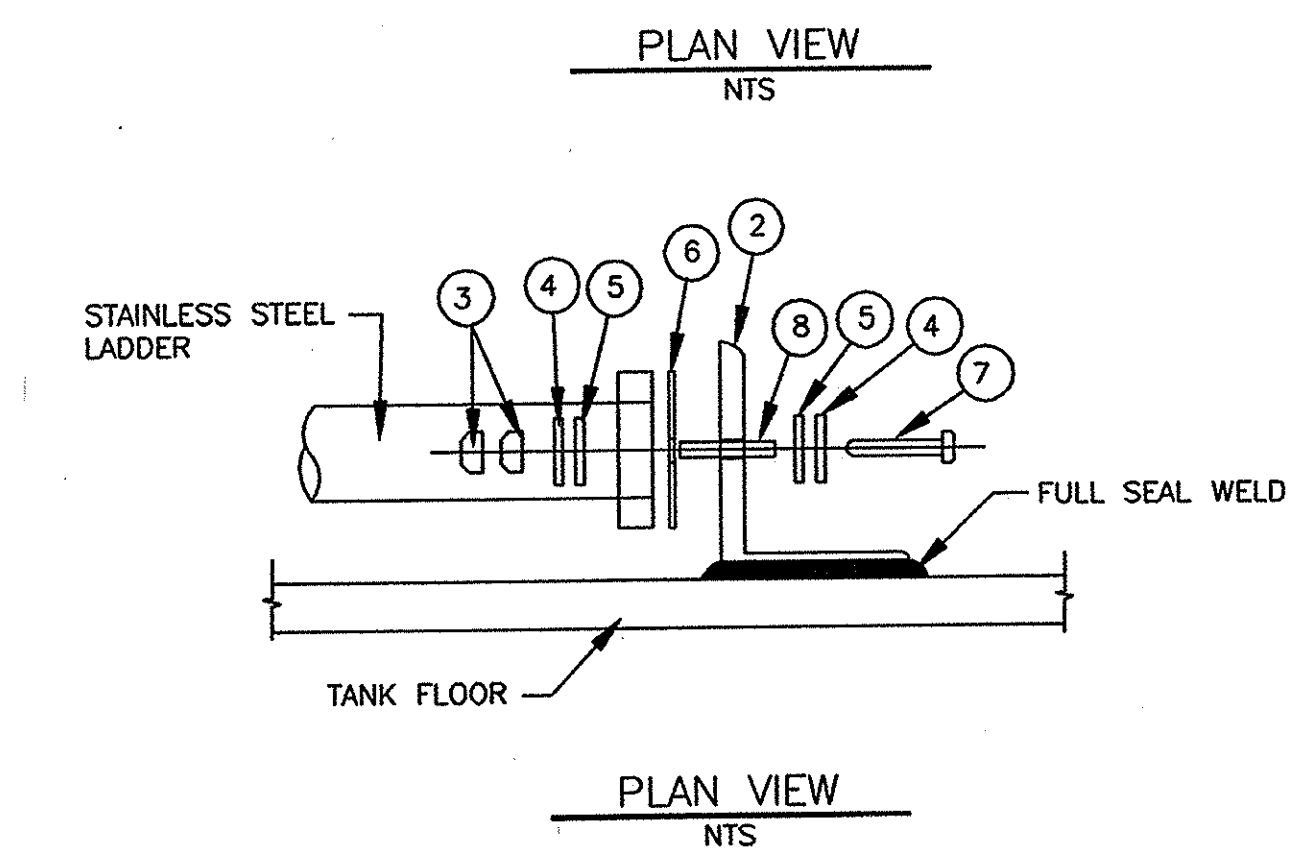
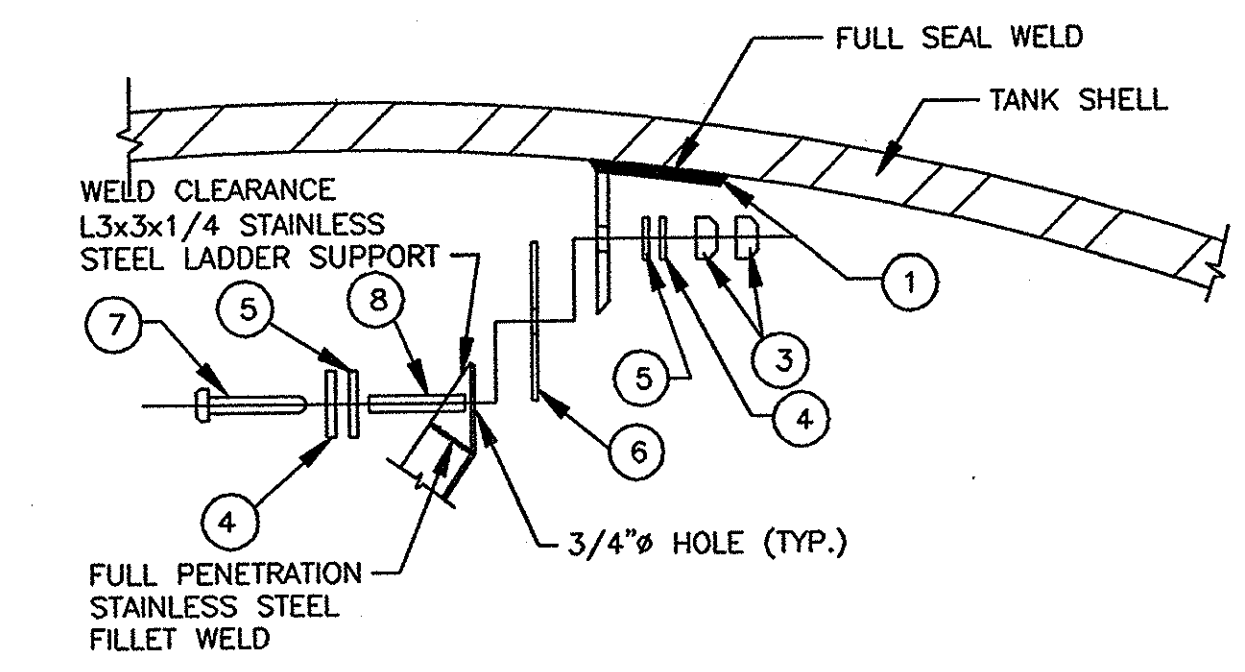
Al	2.5-3.5
Mn	0.20 MIN
Zn	0.7-1.3
Si	0.05 MAX
Cu	0.01 MAX
Ni	0.001 MAX
Fe	0.002 MAX
OTHER	0.30 MAX
Mg	REMAINDER

2 MAGNESIUM ANODE
SCALE: NONE

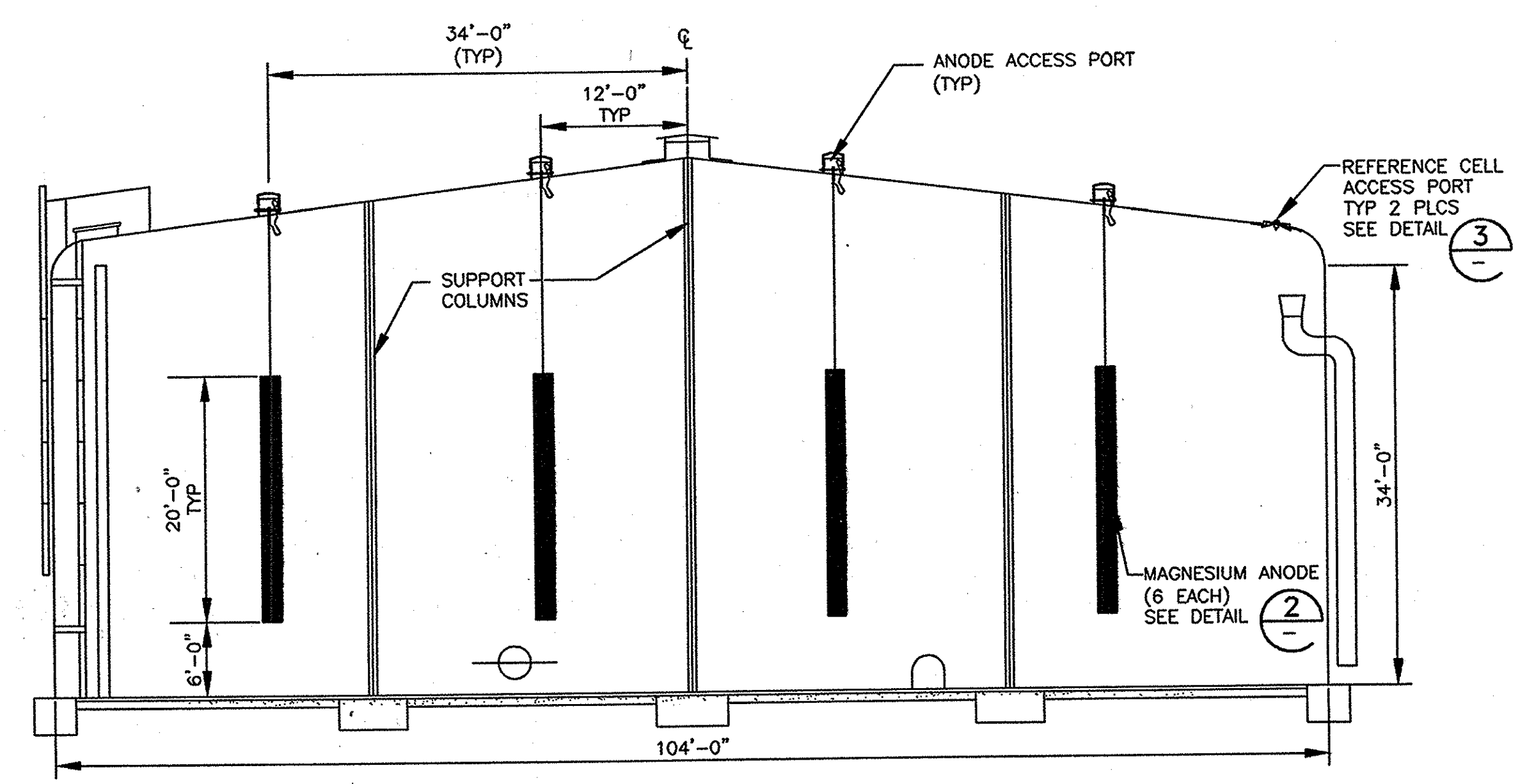
- GENERAL CATHODIC PROTECTION NOTES**
1. ALL MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND TECHNICAL SPECIFICATIONS SECTION 13980.
 2. UNLESS OTHERWISE NOTED, DRAWINGS ARE NOT SHOWN TO SCALE.
 3. LOCATION OF ANODE AND PORTABLE REFERENCE CELL ACCESS PORTS SHALL BE ADJUSTED AS NECESSARY TO AVOID CUTTING THROUGH ROOF SUPPORTS, RAFTERS OR BEAMS.
 4. ALL DRILLING, CUTTING & WELDING ON THE TANK SHALL BE DONE BEFORE THE TANK IS COATED. 6" STL PIPE ANODE ACCESS PORT RISERS AND REF. CELL ACCESS PORTS SHALL BE FULLY COATED INSIDE AND OUT.
 5. CONTRACTOR SHALL NOT CONNECT MAGNESIUM ANODES TO TANK UNTIL AFTER THE 11 MONTH WARRANTY INSPECTION AND AFTER COATING REPAIRS ARE MADE.
 6. CONTRACTOR SHALL DOCUMENT ALL CHANGES FROM THESE DRAWINGS AND SUBMIT "AS-BUILT" DRAWINGS PER SPECIFICATIONS.
 7. REFERENCE CELL PORTS ARE FOR PORTABLE REF. CELLS.
 8. PROVIDE APPROX. 3 FEET OF SLACK ANODE LEAD WIRE SO THAT WIRE CAN EASILY BE PULLED OUT OF PORT AND CURRENT MEASURED WITH A CLAMP-ON METER.



3 REFERENCE CELL ACCESS PORT
SCALE: NONE



4 LADDER INSULATION
SCALE: NONE



A SECTION
SCALE: NONE

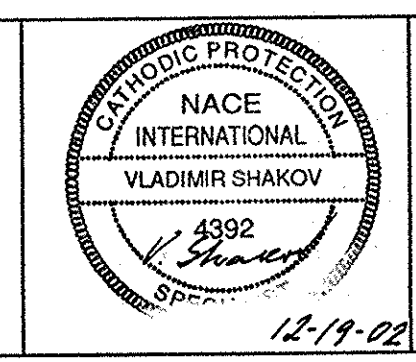
MATERIAL LIST

ITEM	DESCRIPTION	QTY*
1	L3x3x3/8 C.S.	10
2	L4x4x3/8 C.S.	2
3	DBL. STAINLESS STL. NUT	24
4	STAINLESS STL. WASHER	24
5	1/8" THK. NEMA G-10 WASHER	24
6	1/8" THK. NEMA G-10 LAMINATED GLASS SHEET	12
7	5/8" DIA. x 2" LG. COARSE THREAD. STAINLESS STL. BOLT	12
8	5/8" I.D. x 1/32" THK. x 1-1/4" LG. NEMA G-10 INSULATING SLEEVE	12

* TO BE CONFIRMED AND MODIFIED BY TANK FABRICATOR

s:\esmissa\ce\bcwvd\vineland\c-06.dwg

parsons
 100 WEST WALNUT STREET
 PASADENA, CALIFORNIA 91124
 (626) 440-4000



Job No.	723185
Designed	VS
Drawn	JV
Checked	JCR
Approved	JCR
Reg. No.	
Date	12-19-02

Rev	Date	Description	By

Benchmark
SEE SHEET G-1

Scale
AS SHOWN

BEAUMONT CHERRY VALLEY WATER DISTRICT
 RIVERSIDE COUNTY, CALIFORNIA

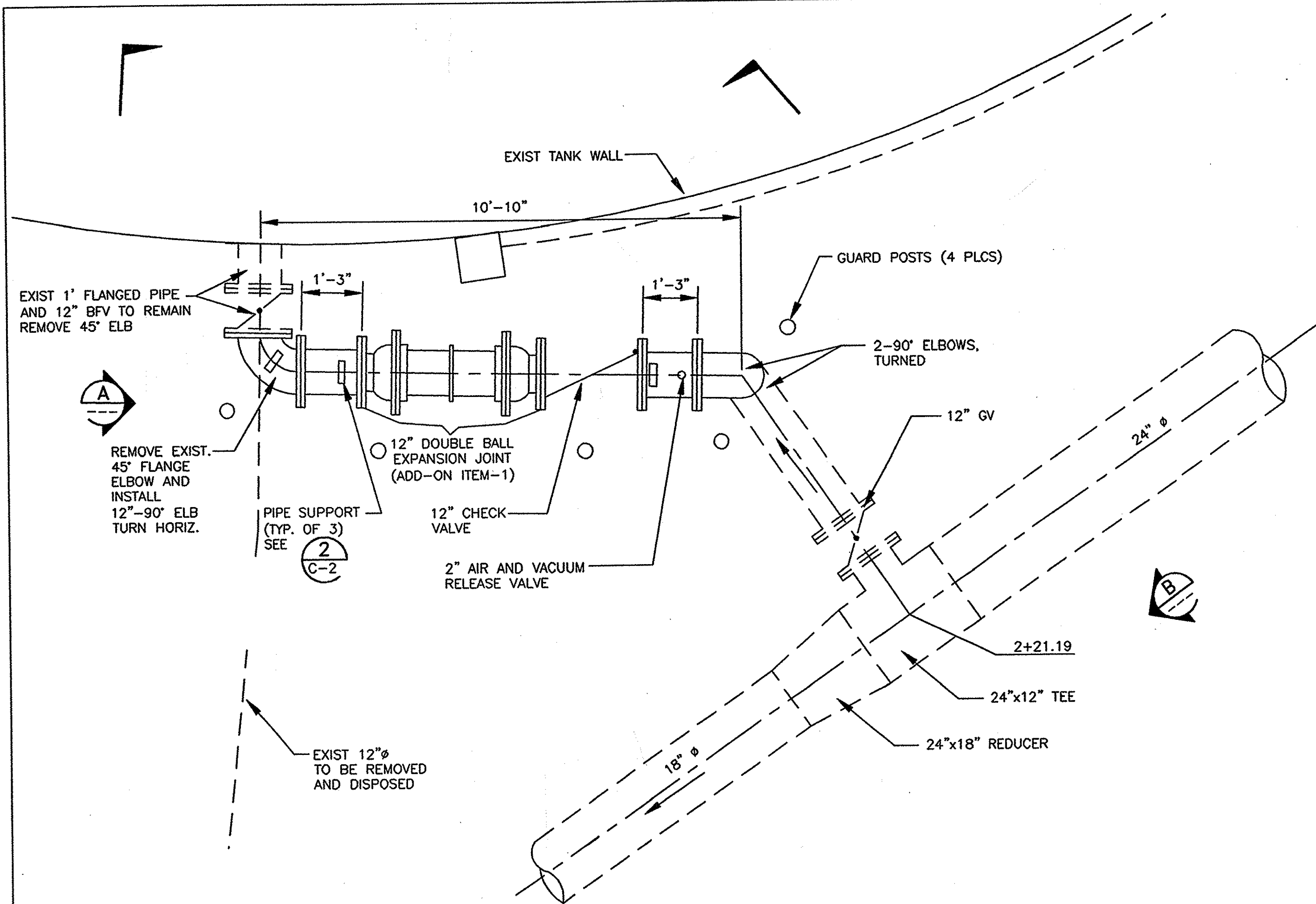
District Engineer: *[Signature]*
 R.C.E. No. 18034
 Date: 12/15/02

VINELAND II TANK
 2.00 MG TANK

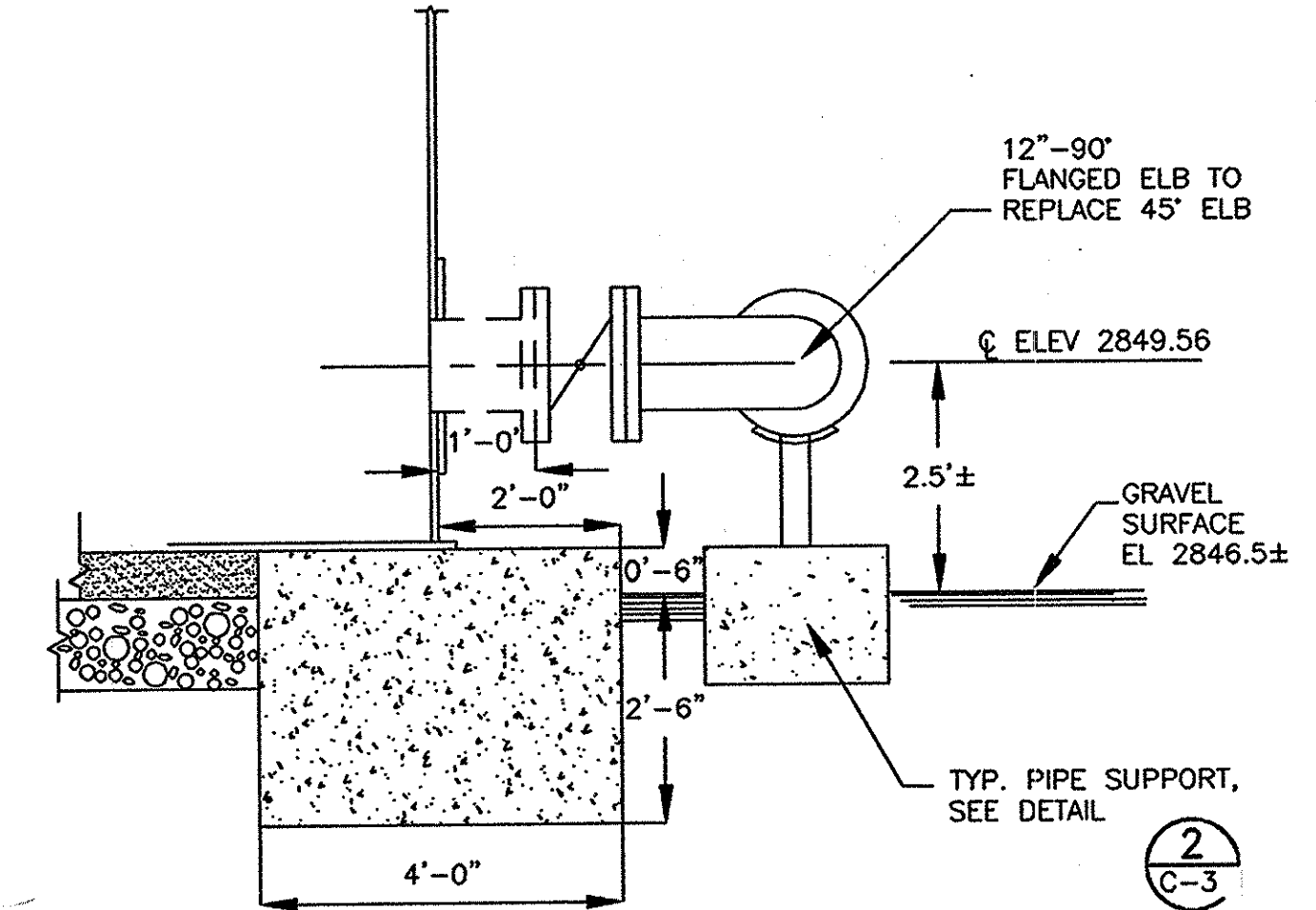
CATHODIC PROTECTION PLAN AND DETAILS

Drawing No.
C-6

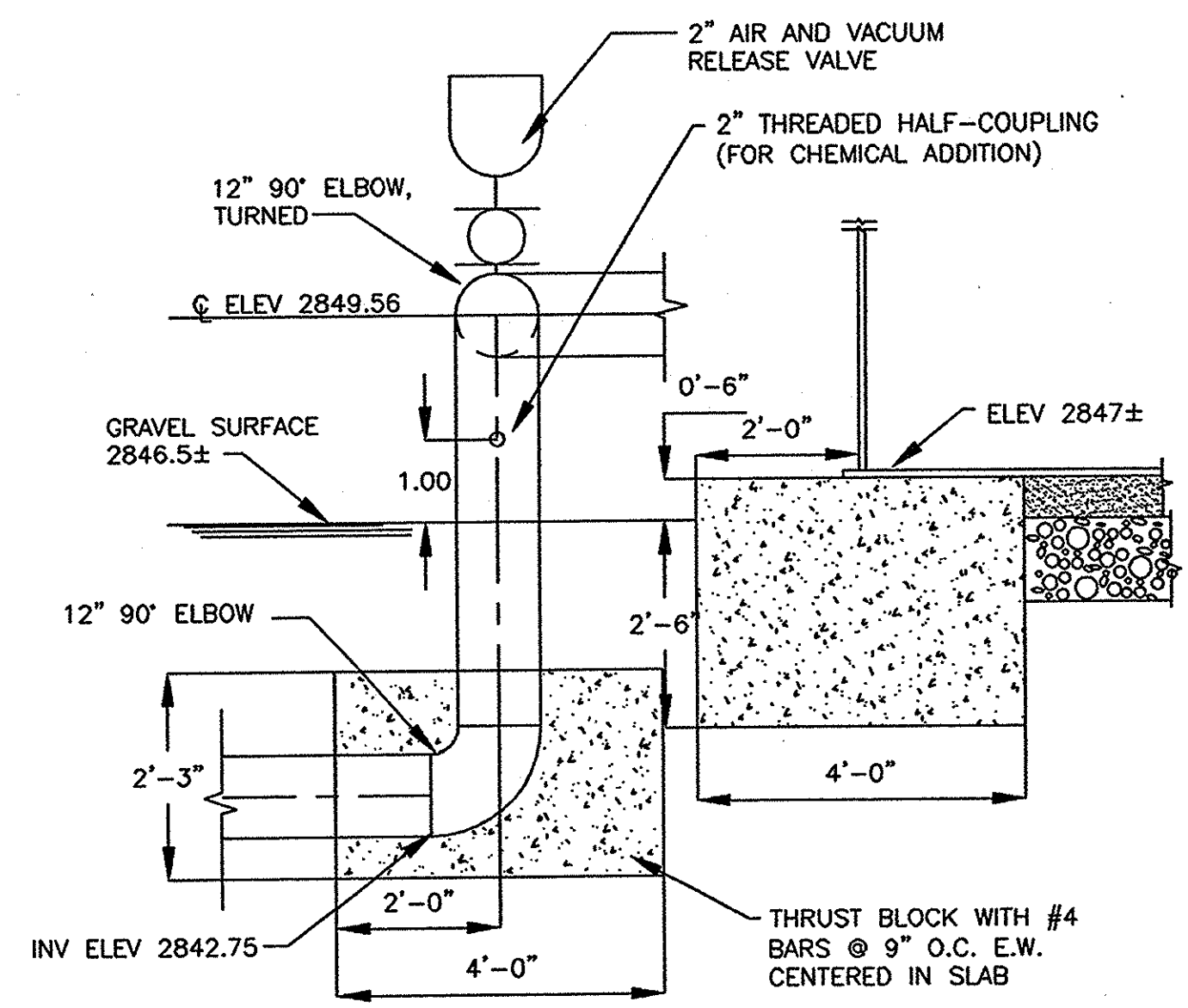
Sheet 8 of 9



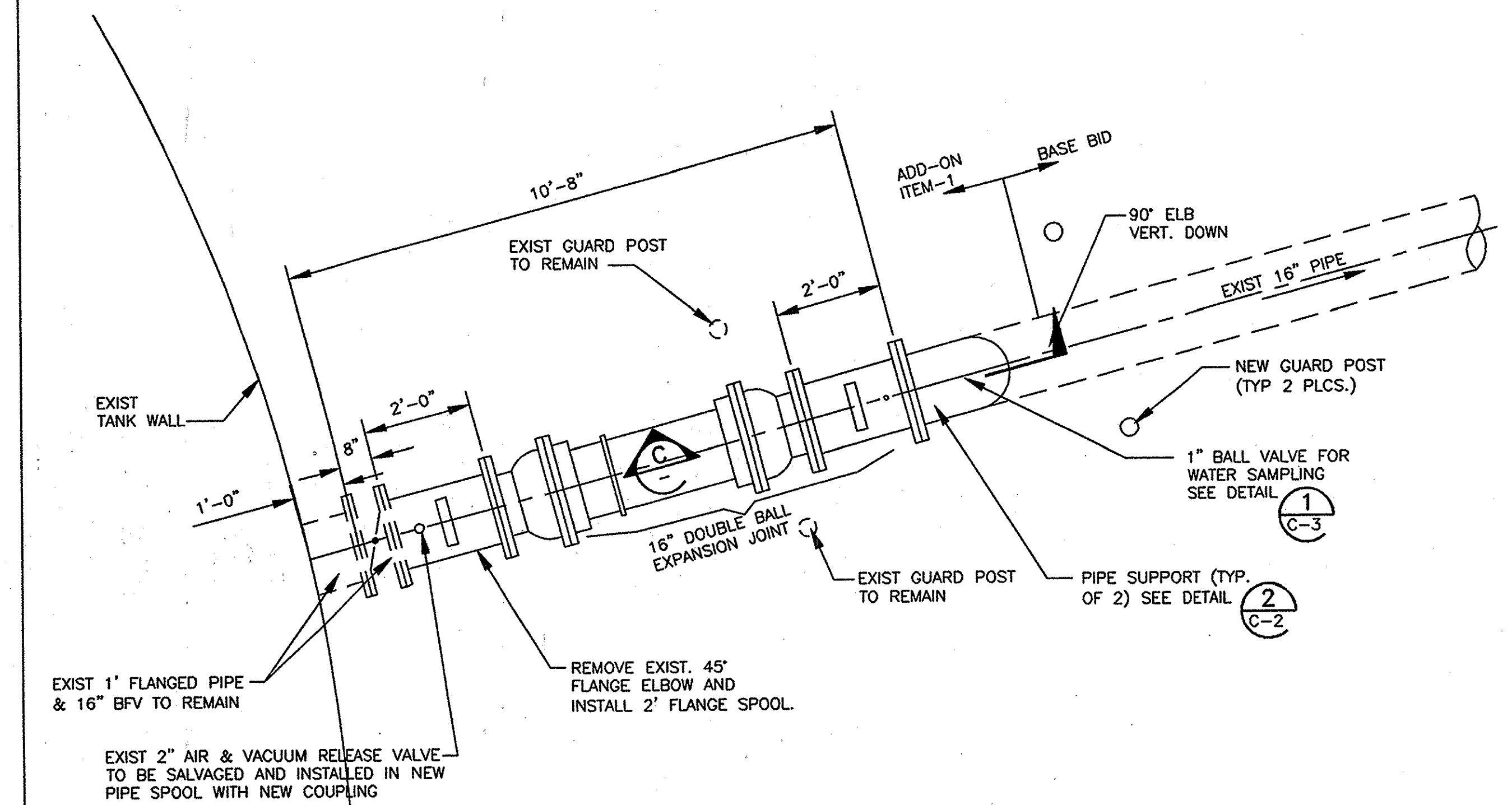
12" INLET PIPING PLAN
1/2" = 1'-0"



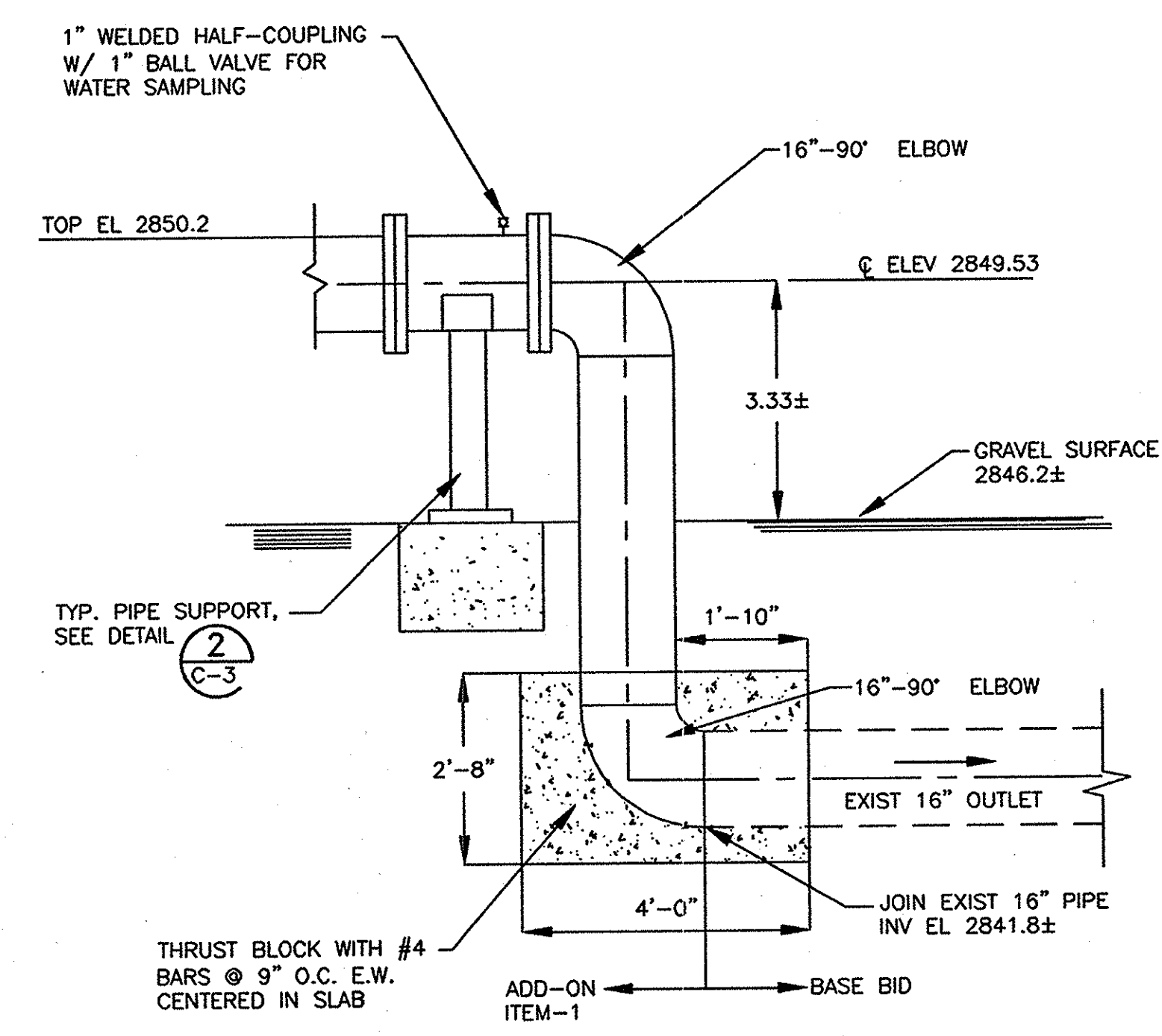
A SECTION - 12" INLET
SCALE: 1/2" = 1'-0"



B SECTION - 12" INLET
SCALE: 1/2" = 1'-0"



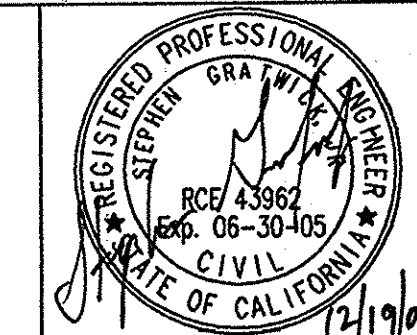
16" OUTLET PIPING PLAN
1/2" = 1'-0"



C SECTION - 16" OUTLET
SCALE: 1/2" = 1'-0"

EXIST 2" AIR & VACUUM RELEASE VALVE TO BE SALVAGED AND INSTALLED IN NEW PIPE SPOOL WITH NEW COUPLING

parsons
100 WEST WALNUT STREET
PASADENA, CALIFORNIA 91124
(626) 440-4000



Job No.	723185		
Designed	SG/JV		
Drawn	JV		
Checked	SG		
Approved	JCR		
Reg. No.			
Date	12/19/07		
Rev	Date	Description	By

Benchmark	SEE SHEET G-1
Scale	AS SHOWN

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

Stephen J. Rasmussen
District Engineer

R.C.E. No. 18034

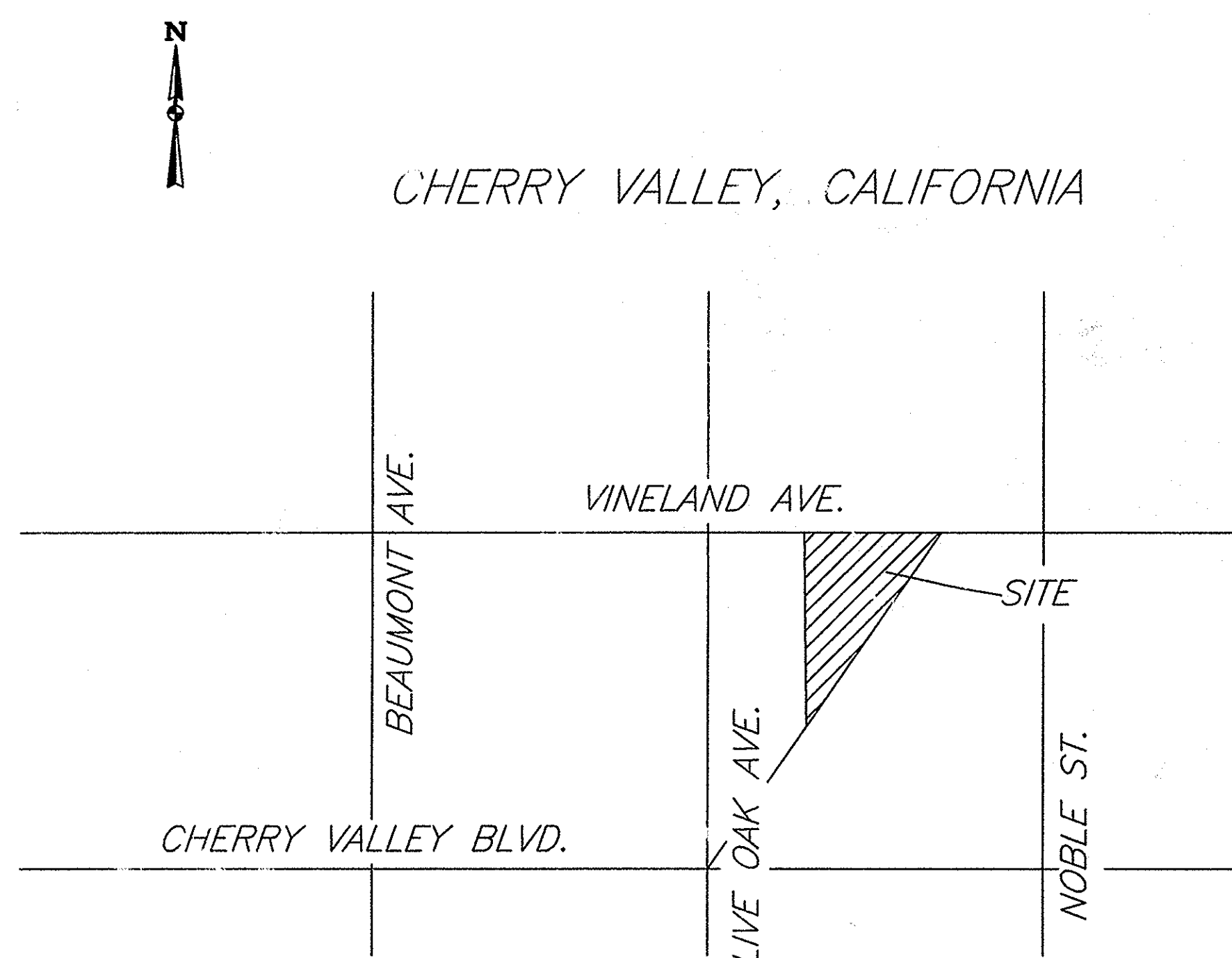
Date: 12/19/07

VINELAND II TANK 2.00 MG TANK	Drawing No. C-7
PIPING PLANS AND MECHANICAL DETAILS EXPANSION JOINT MODIFICATION FOR 1.0 MG TANK	Sheet 9 of 9

BEAUMONT CHERRY VALLEY WATER DISTRICT

RIVERSIDE COUNTY, CALIFORNIA

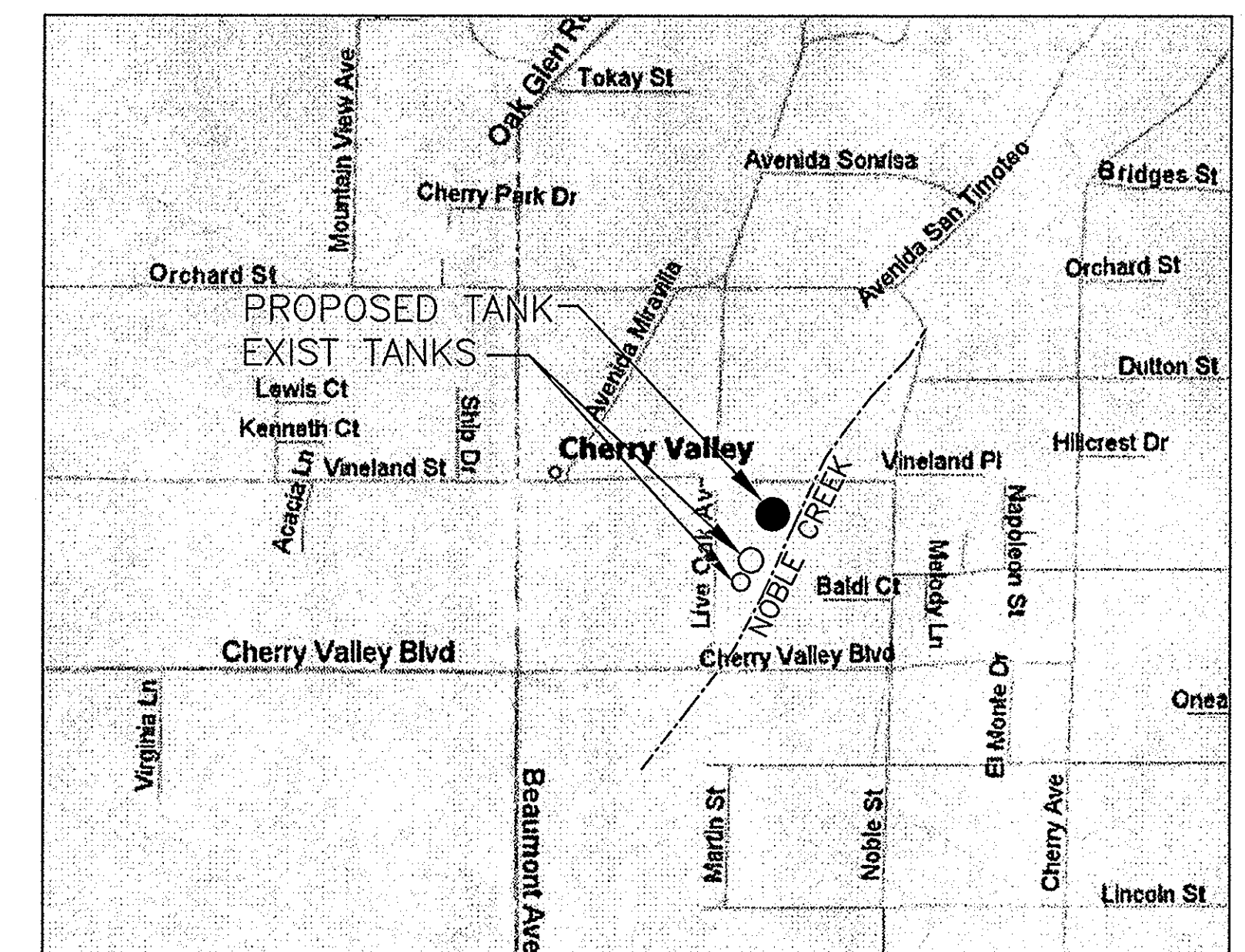
PLANS FOR THE CONSTRUCTION OF THE VINELAND TANK III



LOCATION MAP
N.T.S.

BOARD OF DIRECTORS

GERALD H. BREY	PRESIDENT
WILLIAM LASH	VICE PRESIDENT
DR. BLAIR BALL	DIRECTOR
ALBERT CHATIGNY	DIRECTOR
STELLA PARKS	DIRECTOR
C.J. BUTCHER	GENERAL MANAGER



VICINITY MAP
N.T.S.

ENGINEER'S NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THIS PLAN. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

BENCHMARK DESCRIPTION

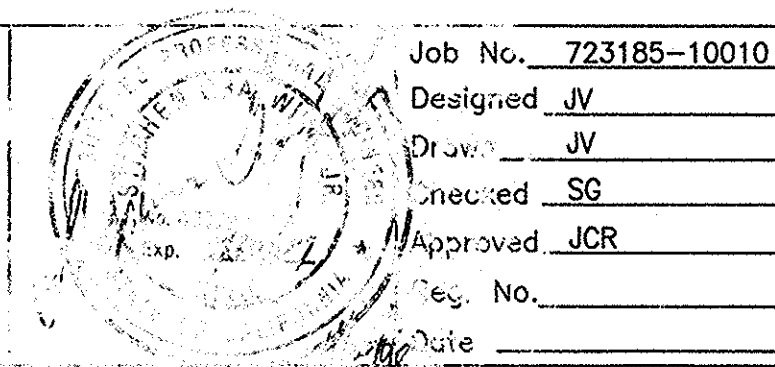
CITY OF BEAUMONT
BENCHMARK
NO. 05.A.82 MARKED: 5

TYPE: 1-3/8" BRASS CAP MONUMENT MARKED "CITY B.M. 5"
ELEVATION: 2631.257 (1962)
LOCATION: S.E. CORNER BEAUMONT AVENUE AND 14TH STREET
59' S'LY AND 33' E'LY OF CENTERLINE INTERSECTION
2' S'LY OF B.C.R.
ESTABLISHED FROM RIVERSIDE COUNTY BENCHMARK 603-98-68
SEE WILLDAN JOB NO. 61170

COORDINATE SYSTEM AND BEARINGS BASED ON
CALIFORNIA STATE PLAN NAD 83 ZONE 5

ISSUE FOR CONSTRUCTION

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA 91112
(626) 440-4000



Job No. 723185-10010
Designed JV
Drawn JV
Checked SG
Approved JCR
Scale
Date

Rev	Date	Description	By

Benchmark
SEE DWG G-1
Scale
NONE

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

J. J. R.
District Engineer

R.C.E. No. 18034

4/26/06
Date

2.5 MG VINELAND TANK III

Drawing No.
G-1

TITLE SHEET

SHEET 1 OF 12

ABBREVIATIONS

Table listing abbreviations such as ARV (AIR RELEASE VALVE), BF (BLIND FLANGE), BOP (BOTTOM OF PIPE), etc.

MECHANICAL SYMBOLS

Table of mechanical symbols including CAP, CLEANOUT, CROSS, BELL UP, DRAIN, ELBOW, FLOW TUBE, PRESSURE GAGE, etc.

SITE/CIVIL LEGEND

Table of site/civil legend symbols including DRAINAGE FLOW, CHAINLINK FENCE, FIELD FENCE, etc.

GENERAL NOTES

- 1. ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR THIS PROJECT... 2. WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED IN THE STATE OF CALIFORNIA...

GENERAL CATHODIC PROTECTION NOTES

- 1. ALL MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND TECHNICAL SPECIFICATIONS. 2. UNLESS OTHERWISE NOTED, DRAWINGS ARE NOT SHOWN TO SCALE.

RESERVOIR DATA

Table with columns: NOM. CAPACITY, DIAMETER, SHELL HEIGHT, CONSTRUCTION, BASE ELEV, OVERFLOW ELEV.

DRAWING INDEX

Table with columns: SHEET NO., DWG. NO., TITLE. Lists sheets 1 through 12.

STRUCTURAL NOTES

GOVERNING CODES

UNIFORM BUILDING CODE, 1997

INTENT OF GENERAL STRUCTURAL NOTES

THE INTENT OF THESE GENERAL STRUCTURAL NOTES IS TO DEFINE DESIGN PARAMETERS (LOADS AND ALLOWABLE STRESSES) FOR ALL STRUCTURES AND MATERIALS USED.

DESIGN

THE STRUCTURES ARE DESIGNED TO BE STABLE AND SELF-SUPPORTING WHEN ERECTED AND FULLY COMPLETED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ERECTION PROCEDURE...

LIVE LOADS

DESIGN LIVE LOADS FOR THE STRUCTURES ARE AS FOLLOWS: ROOF-20PSF

WIND LOADS

BASIC WIND SPEED - 70 MPH EXPOSURE - "C"

SEISMIC LOADS

PEAK GROUND ACCELERATION: 0.77G SEISMIC ZONE: 4 IMPORTANCE FACTOR: 1.25

FOUNDATION

GEOTECHNICAL INVESTIGATION REPORT BY: CONVERSE CONSULTANTS DATED JULY 19, 2002, INCLUDING SUPPLEMENTAL DESIGN RECOMMENDATIONS DATED AUGUST 7, 2002...

REMEDIAL GRADING RECOMMENDATIONS

THE ENTIRE TANK PAD AND MASONRY RETAINING WALL AREAS SHALL BE OVEREXCAVATED AT LEAST 3 FEET BELOW PROPOSED FINISH PAD OR FOOTING ELEVATION.

COORDINATION OF WORK

MECHANICAL FRAMING, OPENINGS AND SUPPORTS FOR EQUIPMENT OR OTHER PROCESS ITEMS ARE SHOWN FOR BIDDING PURPOSES ONLY. THE EXACT SIZE AND LOCATION OF SUCH ITEMS SHALL BE VERIFIED FROM MANUFACTURER'S APPROVED SHOP DRAWINGS...

MISCELLANEOUS

FOR LOCATIONS AND DETAIL OF PIPES, CONDUITS, DUCTS, AND OTHER OPENINGS ON SLABS AND WALLS, SEE CIVIL DRAWINGS.

GENERAL:

- 1. ALL DETAILS MARKED "TYPICAL" SHALL BE USED WHEREVER APPLICABLE, UNLESS OTHERWISE INDICATED ON PLANS. 2. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE UNIFORM BUILDING CODE, 1997 EDITION...

REINFORCING STEEL:

- 1. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL DEFORMED BARS AND SHALL CONFORM TO ASTM A 615, GRADE 60. 2. THE CLEAR COVER OVER REINFORCING SHALL BE AS FOLLOWS: A. CONCRETE CAST AGAINST EARTH 3"

MASONRY

- 1. MASONRY UNITS OF CONCRETE SHALL CONFORM TO ASTM C90 GRADE N-1 f'm=1500, ASTM C140 AND ASTM C42C. 2. MORTAR MIX SHALL BE TYPE "S", WITH ONE PART CEMENT AND 1/4 TO 1/2 PART HYDRATED LIME OR LIME PUTTY BY VOLUME.

FINE GROUT IS USED FOR NARROW, LESS THAN 2", GROUT SPACE. SUFFICIENT WATER SHALL BE ADDED TO CAUSE THE GROUT TO FLOW INTO THE CELLS OF THE MASONRY.

GROUT SHALL ATTAIN A MINIMUM STRENGTH OF 2000 PSI AT 28 DAYS. SOLID GROUT ALL CELLS.

CONCRETE

Table with columns: ADDITIONAL CODE, STRENGTH, DETAILING AND FABRICATION, CEMENT, AGGREGATE.

UNLESS OTHERWISE SHOWN OR NOTED, ALL 90-, 135- AND 180- DEGREE HOOKS FOR REINFORCING SHALL BE IN ACCORDANCE WITH THE STANDARD HOOK DETAILS SHOWN IN ACI 315R-88.

TACK WELDING, WELDING, HEATING OR CUTTING OF BARS: NOT PERMITTED, U.N.O.

SPICES (STANDARD LAPS): 40 DIAMETERS OR 24 INCHES WHICHEVER IS GREATER U.N.O. ON DRAWINGS. STAGGER BOTTOM SPICES AT LEAST 5'-0" FROM SPICES IN OTHER BOTTOM REINFORCEMENT.

ANCHOR BOLTS, DOWELS AND HOLD DOWN ANCHORS: SECURELY HELD IN PLACE PRIOR TO POURING OF CONCRETE.

CHAMFER: 3/4 INCH ON EXPOSED CORNERS.

CONCRETE CURING: ACI 318

INSPECTION

CONTINUOUS INSPECTION SHALL BE PERFORMED BY A SPECIAL INSPECTOR AS DEFINED IN SPECIFICATIONS. CONTINUOUS INSPECTION WILL BE REQUIRED FOR THE FOLLOWING WORK:

- 1. PLACING OF CONCRETE AND REINFORCING STEEL FOR CONCRETE WITH 28-DAY STRENGTHS IN EXCESS OF 2,500 PSI. 2. PLACING OF MASONRY UNITS, REINFORCING STEEL, AND GROUTING FOR CONCRETE BLOCK MASONRY.

ISSUE FOR CONSTRUCTION

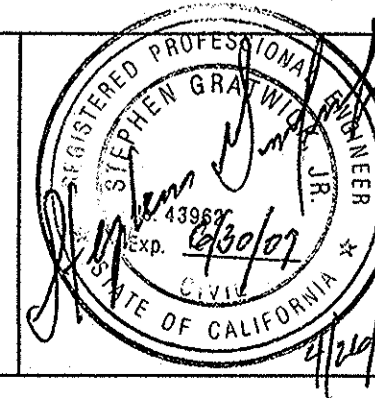


Table with columns: Job No., Designed, Drawn, Checked, Approved, Reg. No., Date.

Table with columns: Rev, Date, Description, By.

Table with columns: Benchmark, Scale.

BEAUMONT CHERRY VALLEY WATER DISTRICT RIVERSIDE COUNTY, CALIFORNIA

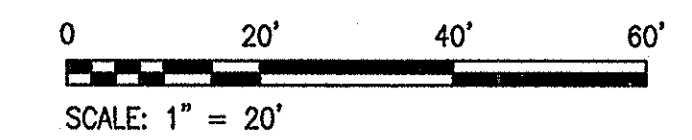
Signature of District Engineer and R.C.E. No. 18034

2.5 MG VINELAND TANK III

GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND DRAWING INDEX

Drawing No. G-2

SHEET 2 OF 12

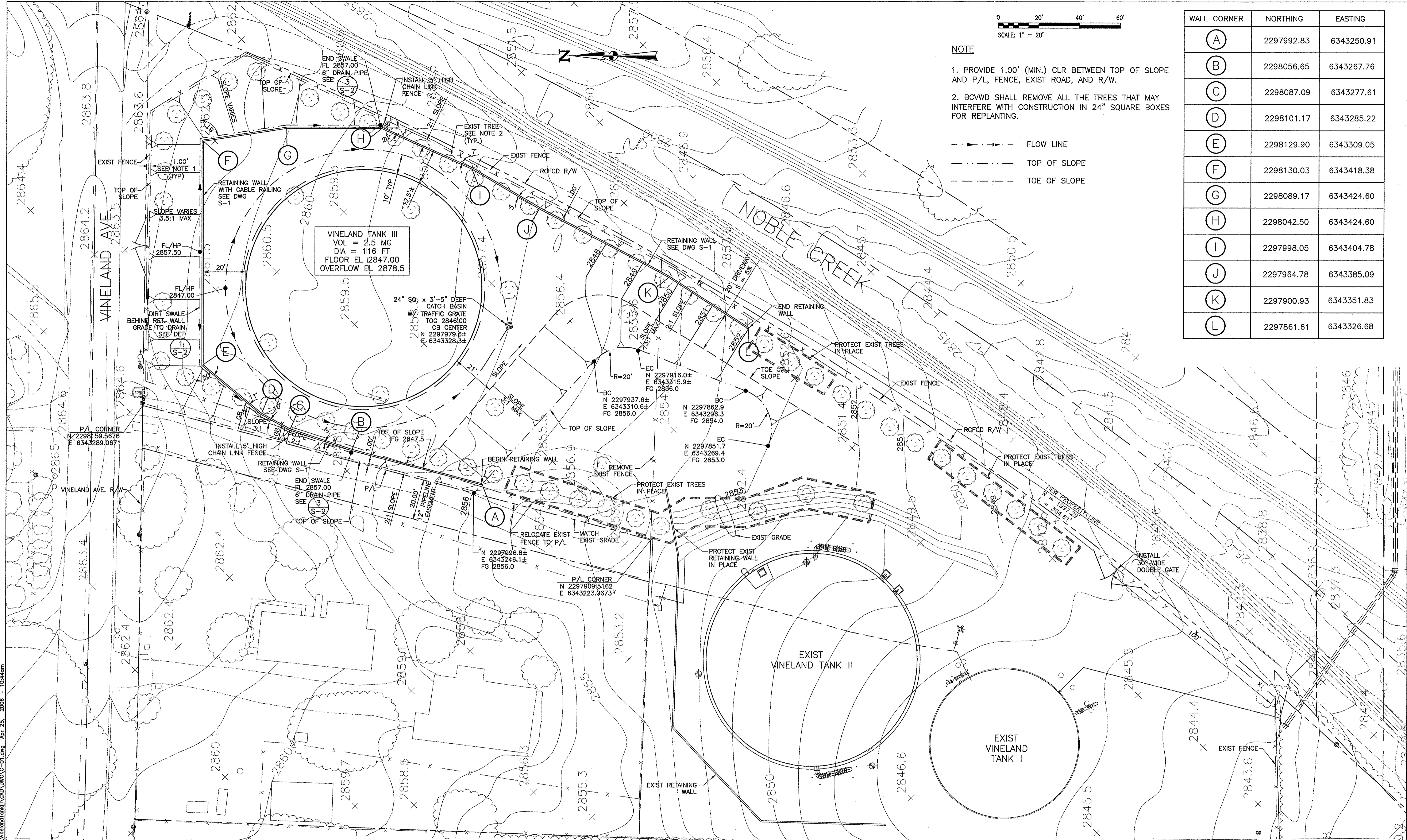


NOTE

1. PROVIDE 1.00' (MIN.) CLR BETWEEN TOP OF SLOPE AND P/L, FENCE, EXIST ROAD, AND R/W.
2. BCVWD SHALL REMOVE ALL THE TREES THAT MAY INTERFERE WITH CONSTRUCTION IN 24" SQUARE BOXES FOR REPLANTING.

- > FLOW LINE
- - - - - TOP OF SLOPE
- - - - - TOE OF SLOPE

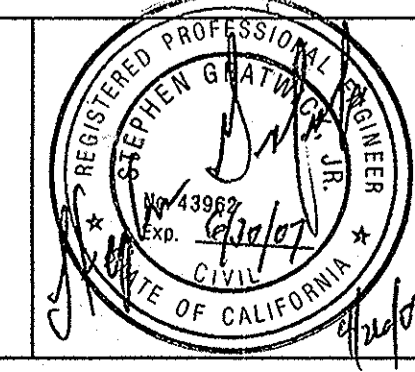
WALL CORNER	NORTHING	EASTING
(A)	2297992.83	6343250.91
(B)	2298056.65	6343267.76
(C)	2298087.09	6343277.61
(D)	2298101.17	6343285.22
(E)	2298129.90	6343309.05
(F)	2298130.03	6343418.38
(G)	2298089.17	6343424.60
(H)	2298042.50	6343424.60
(I)	2297998.05	6343404.78
(J)	2297964.78	6343385.09
(K)	2297900.93	6343351.83
(L)	2297861.61	6343326.68



SITE GRADING PLAN
1" = 20'

ISSUE FOR CONSTRUCTION

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA 91124
(626) 440-4000



Job No.	723185
Designed	JV
Drawn	JV
Checked	SG
Approved	JCR
Reg. No.	
Date	

Benchmark	SEE DWG G-1
Scale	1" = 20'

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

[Signature]
District Engineer

R.C.E. No. 18034

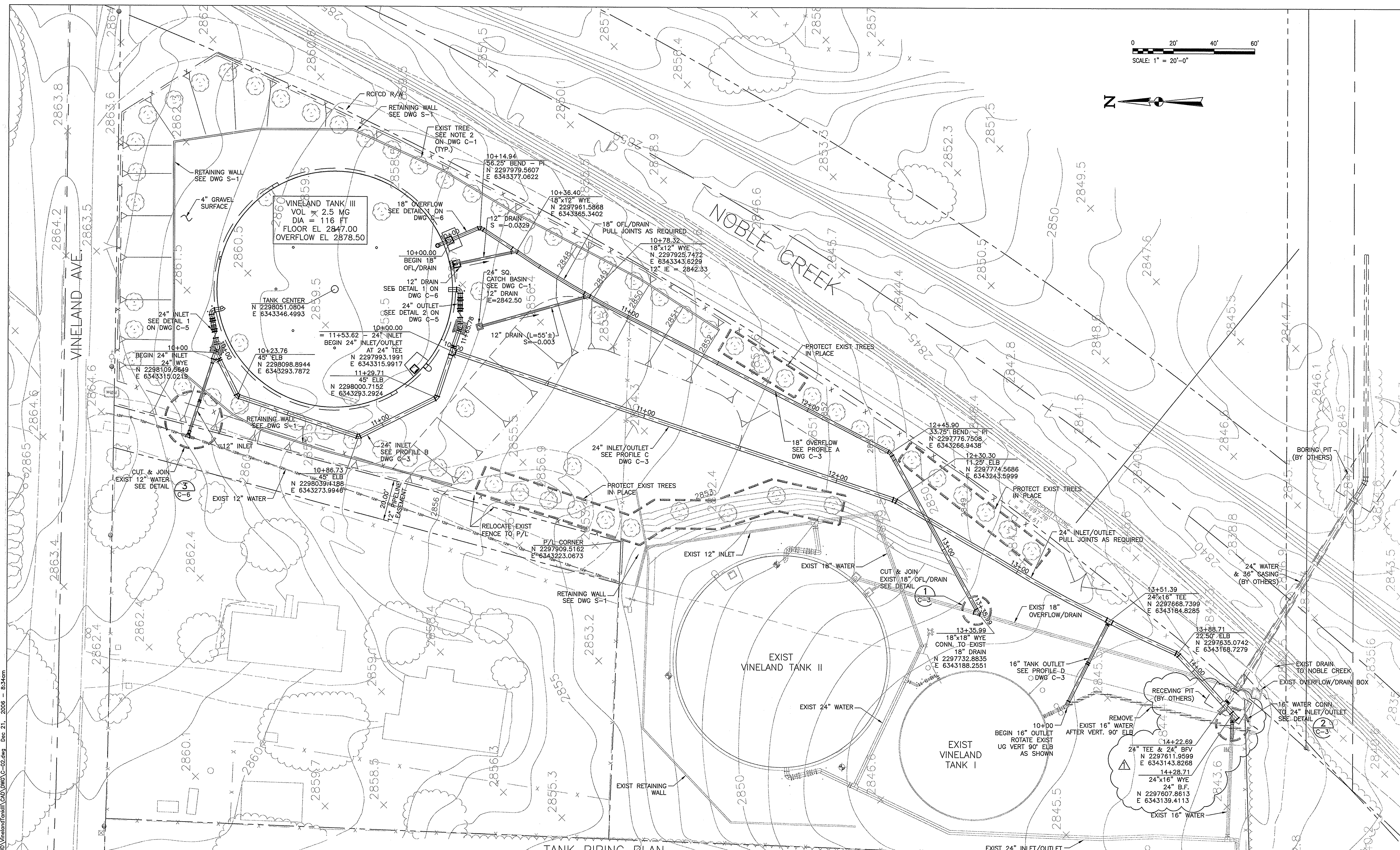
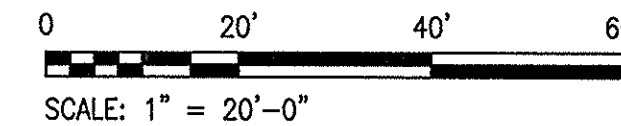
[Date]
Date

2.5 MG VINELAND TANK III

SITE AND GRADING PLAN

Drawing No. C-1

SHEET 3 OF 12



TANK PIPING PLAN
1" = 20'

ISSUED FOR CONSTRUCTION

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA 91124
(626) 440-4000

Job No.	723185-10010	Benchmark	SEE DWG G-1
Designed	JV	Scale	1"=20'
Drawn	JV	By	
Checked	SG	Date	
Approved	JCR	Rev	12/2006
Reg. No.		Date	12/2006
Date		Description	REVISE 24" INLET/OUTLET ALIGNMENT & 16" CONN. TO 24" INLET/OUTLET

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

District Engineer

R.C.E. No. 18034

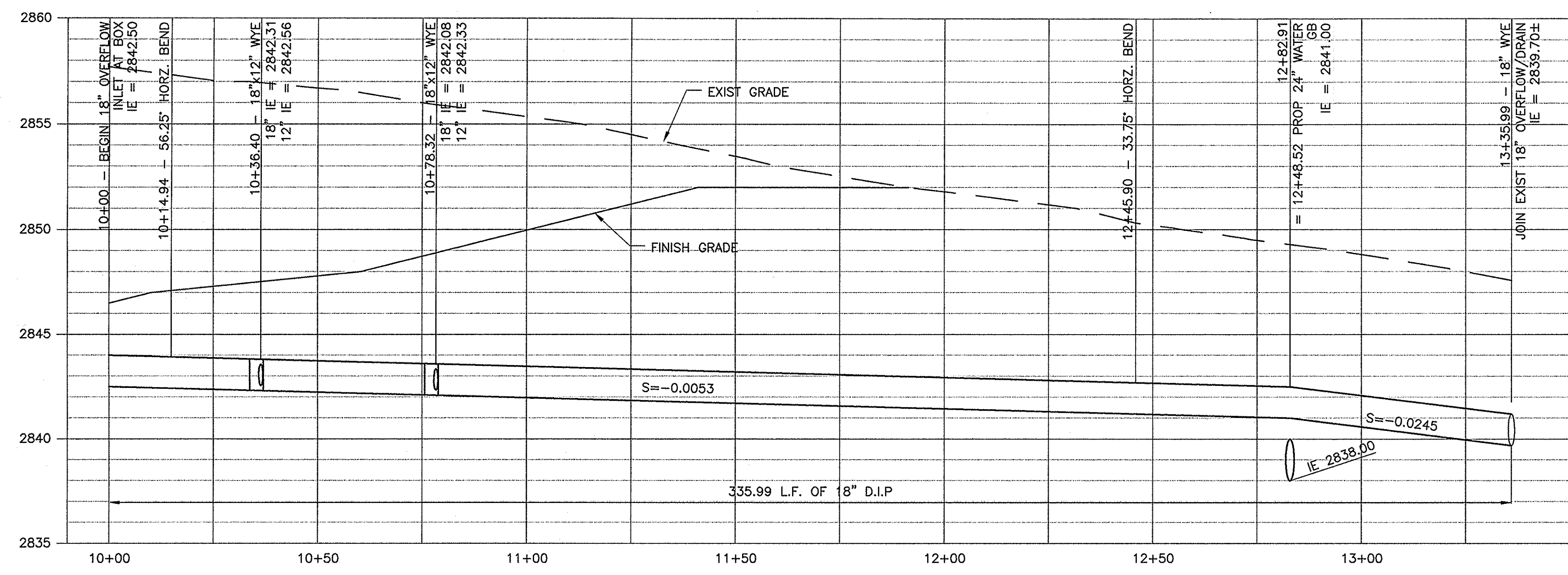
Date: 12/28/06

2.5 MG VINELAND TANK III

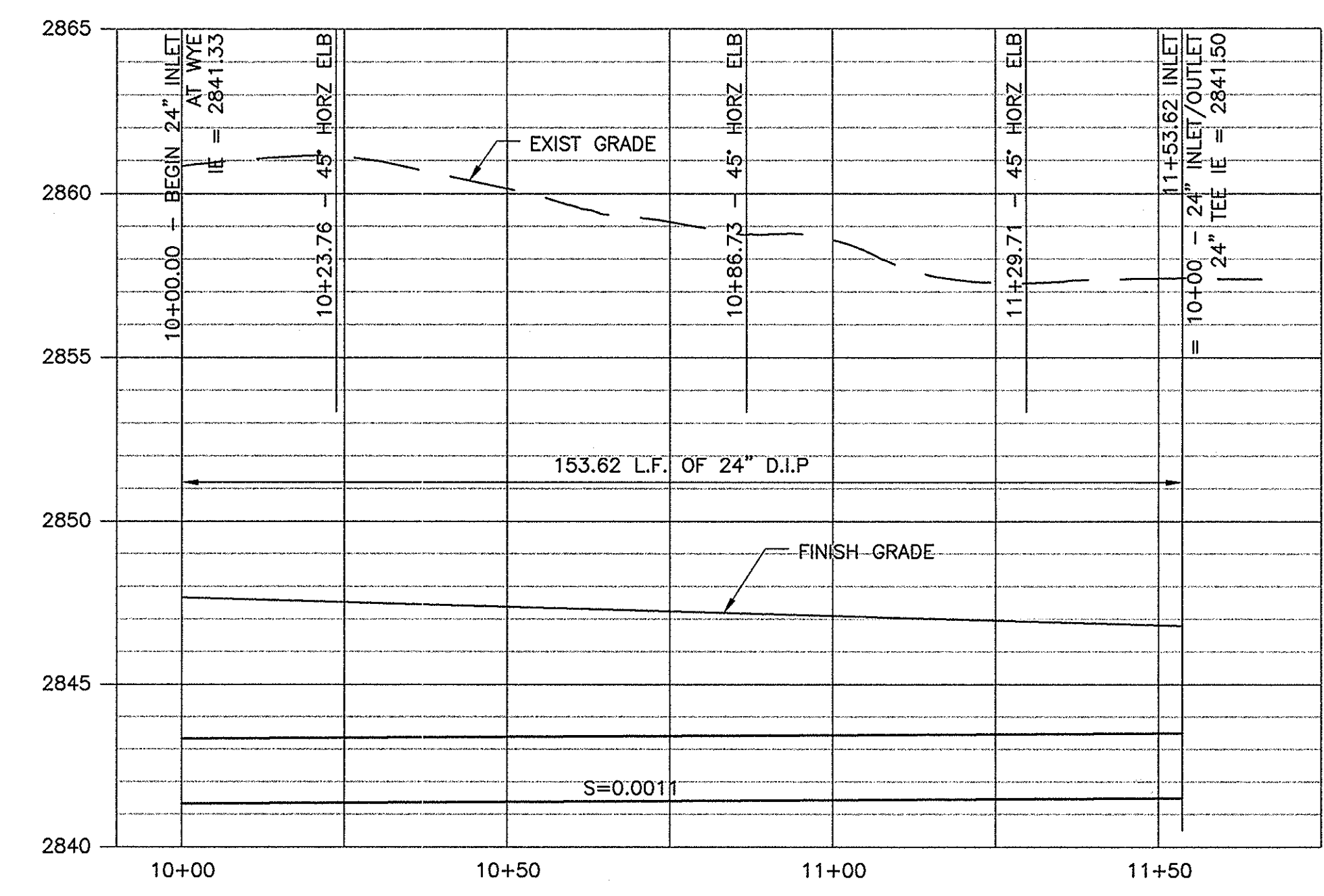
TANK PIPING PLAN

Drawing No. C-2

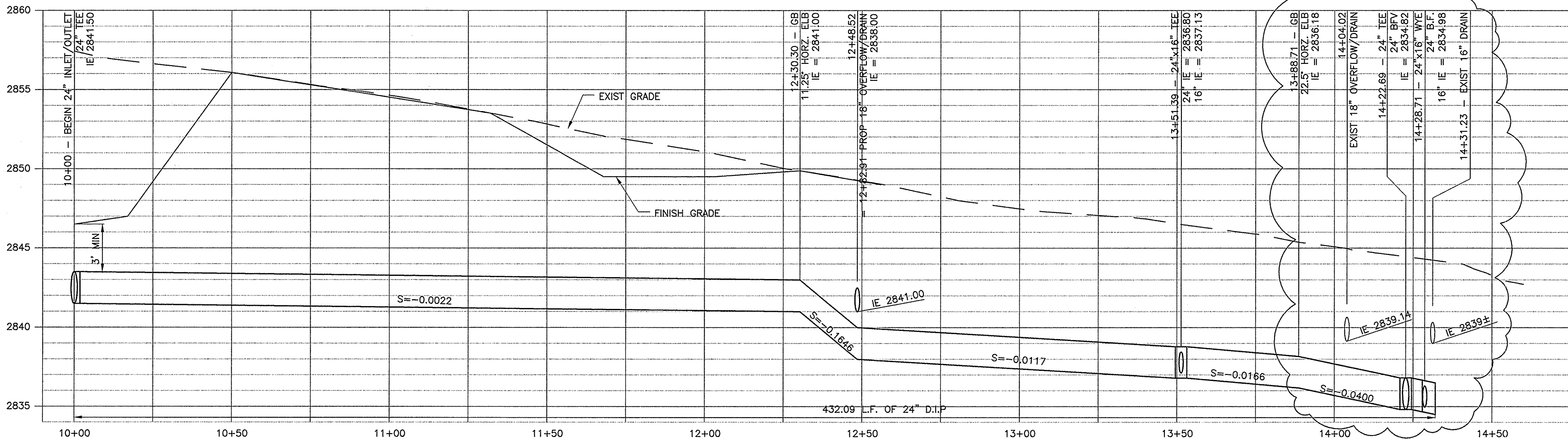
SHEET 4 OF 12



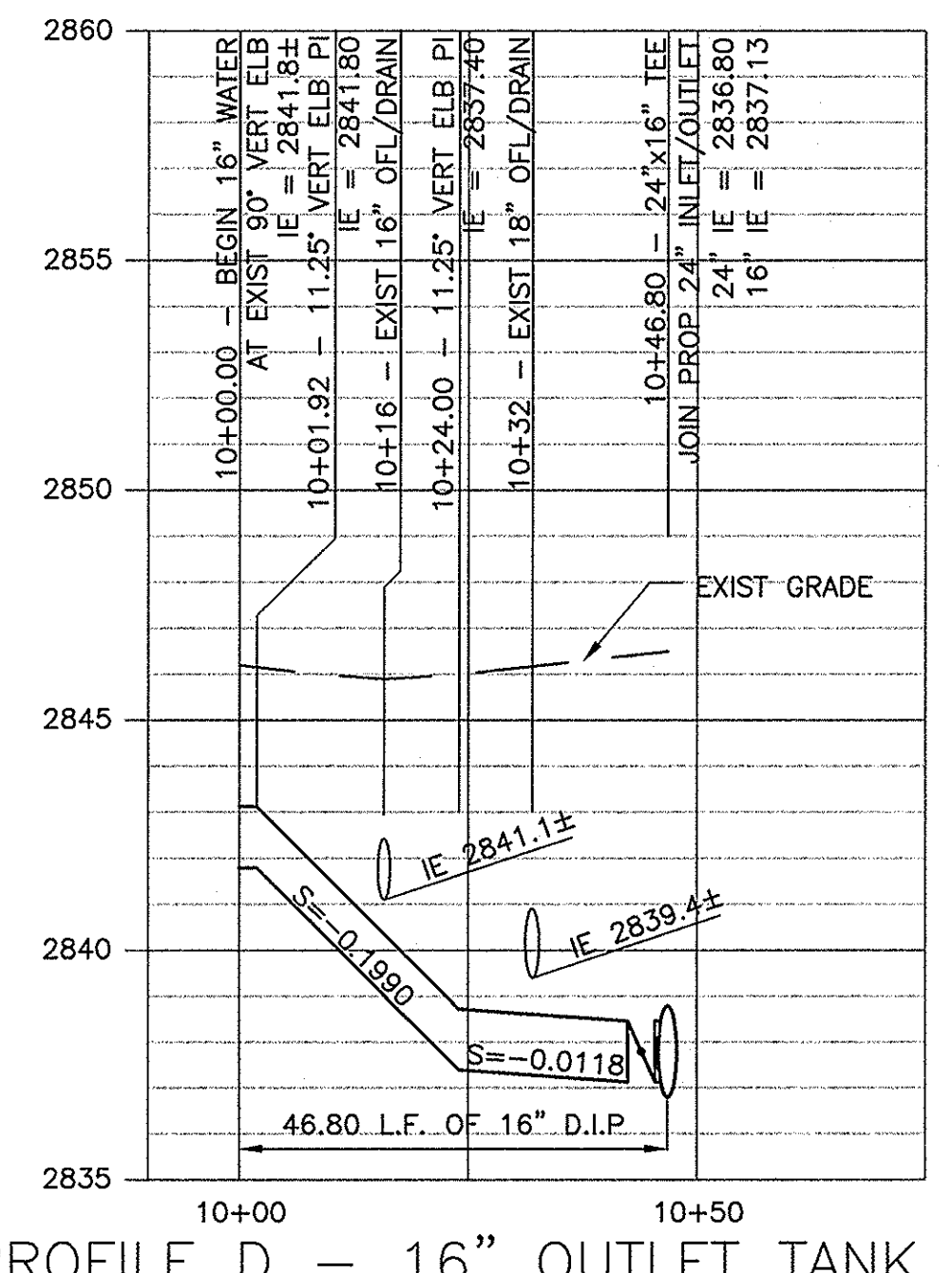
PROFILE A - 18" OVERFLOW/DRAIN
 HORZ SCALE: 1" = 20'
 VERT SCALE: 1" = 4'



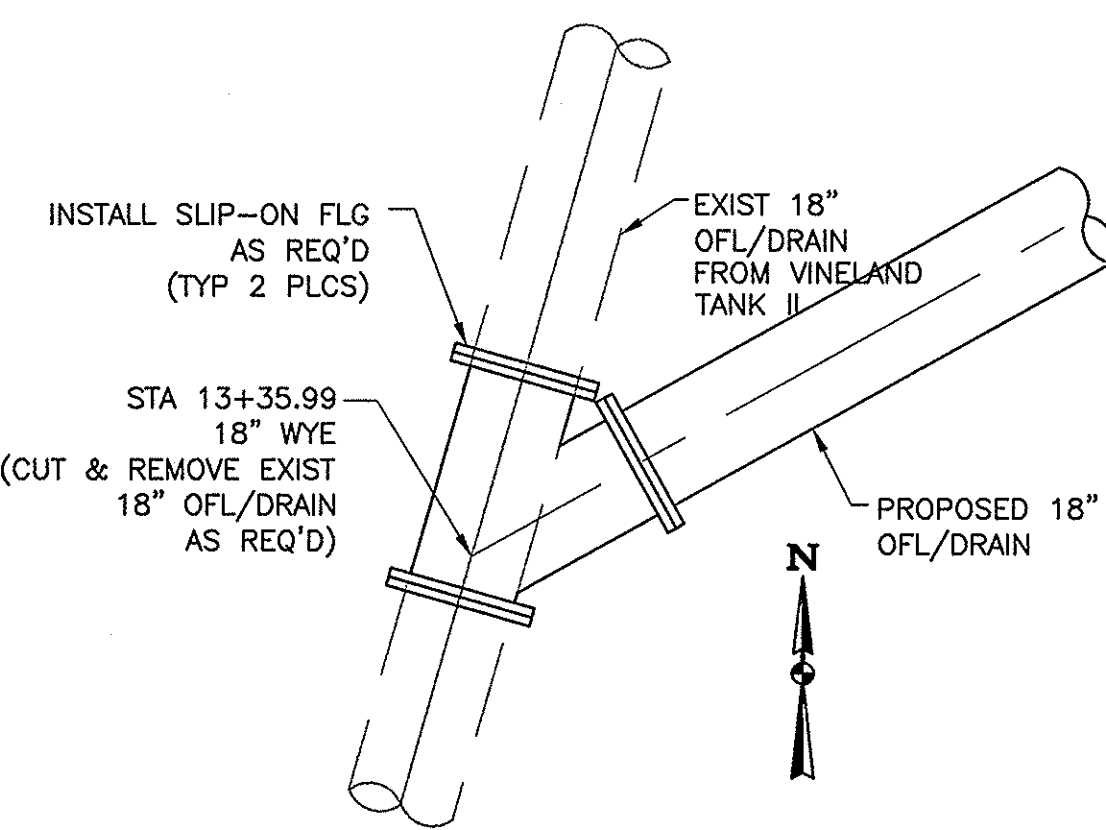
PROFILE B - 24" INLET
 HORZ SCALE: 1" = 20'
 VERT SCALE: 1" = 4'



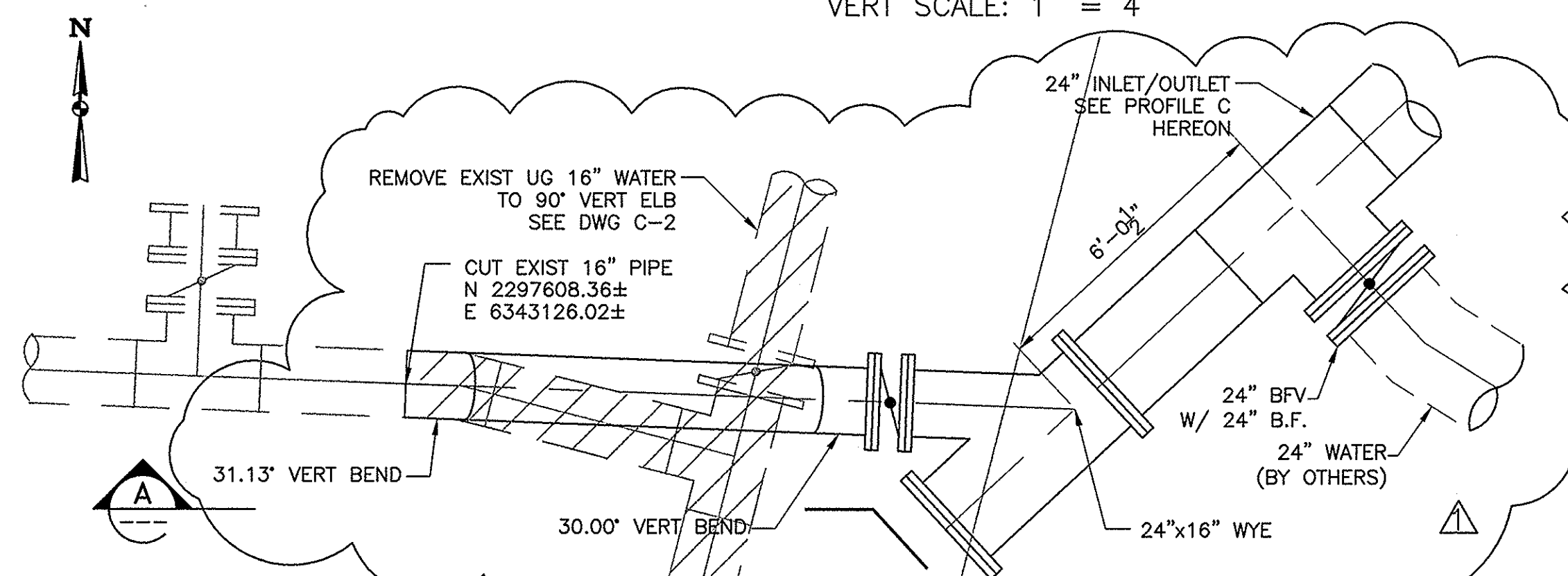
PROFILE C - 24" INLET/OUTLET
 HORZ SCALE: 1" = 20'
 VERT SCALE: 1" = 4'



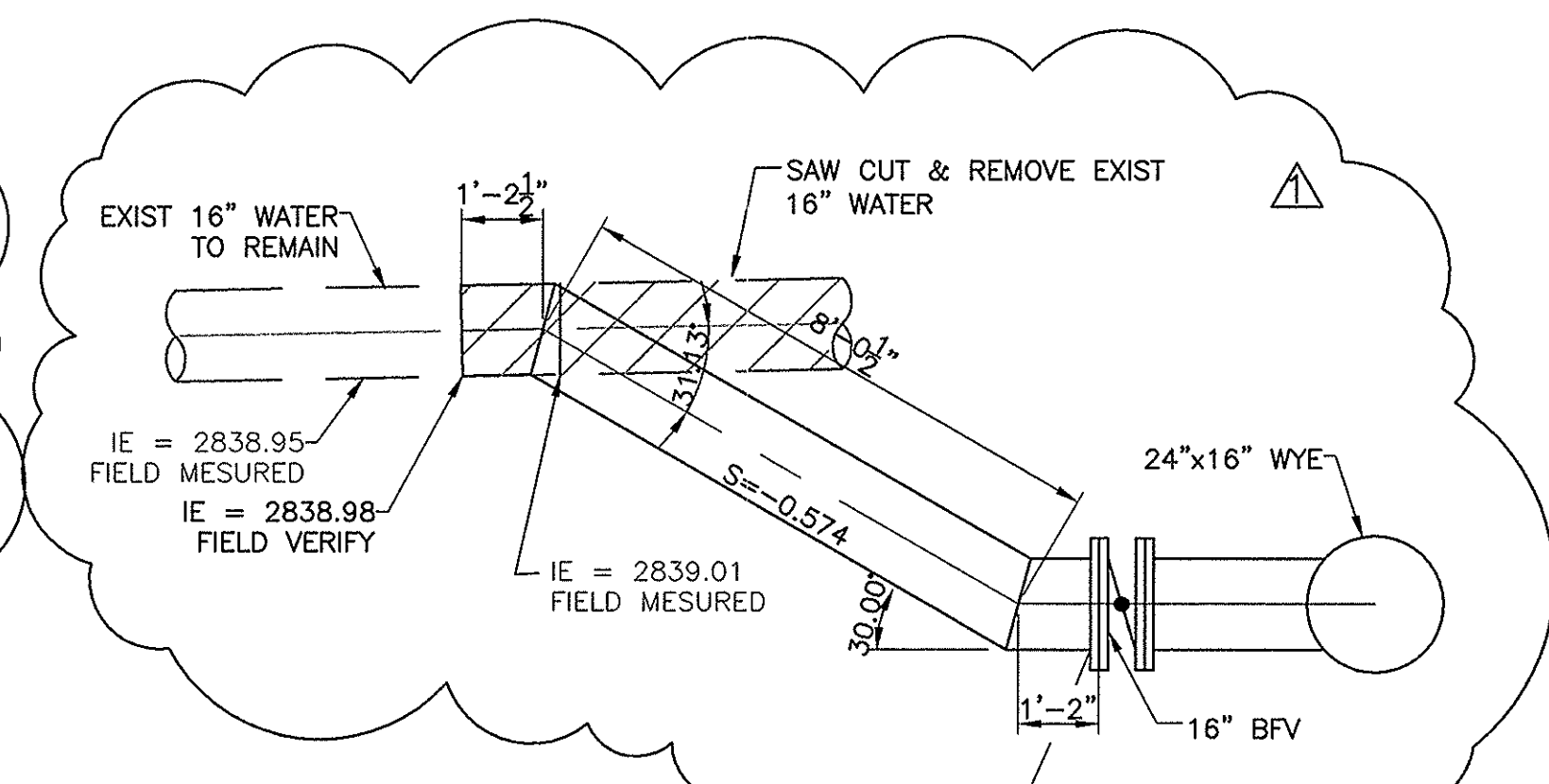
PROFILE D - 16" OUTLET TANK NO. 1
 HORZ SCALE: 1" = 20'
 VERT SCALE: 1" = 4'



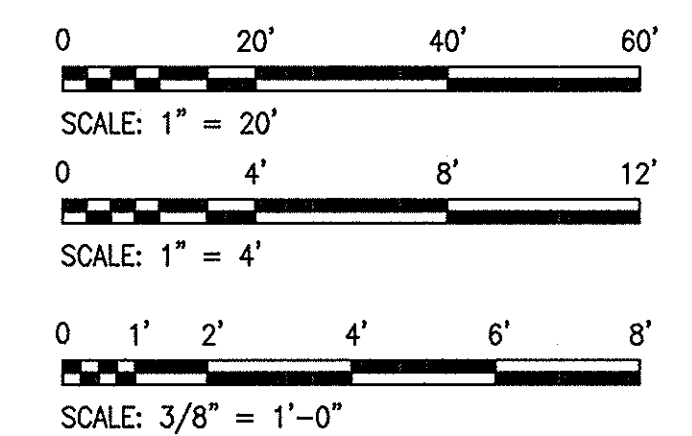
1 18" OFL/RAIN CONN.
 SCALE: 3/8" = 1'-0"



2 16" WATER CONN. TO 24" INLET/OUTLET
 SCALE: 3/8" = 1'-0"

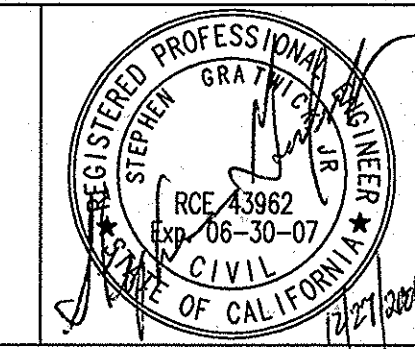


A SECTION
 SCALE: 3/8" = 1'-0"



ISSUED FOR CONSTRUCTION

PARSONS
 100 WEST WALNUT STREET
 PASADENA, CALIFORNIA 91124
 (626) 440-4000



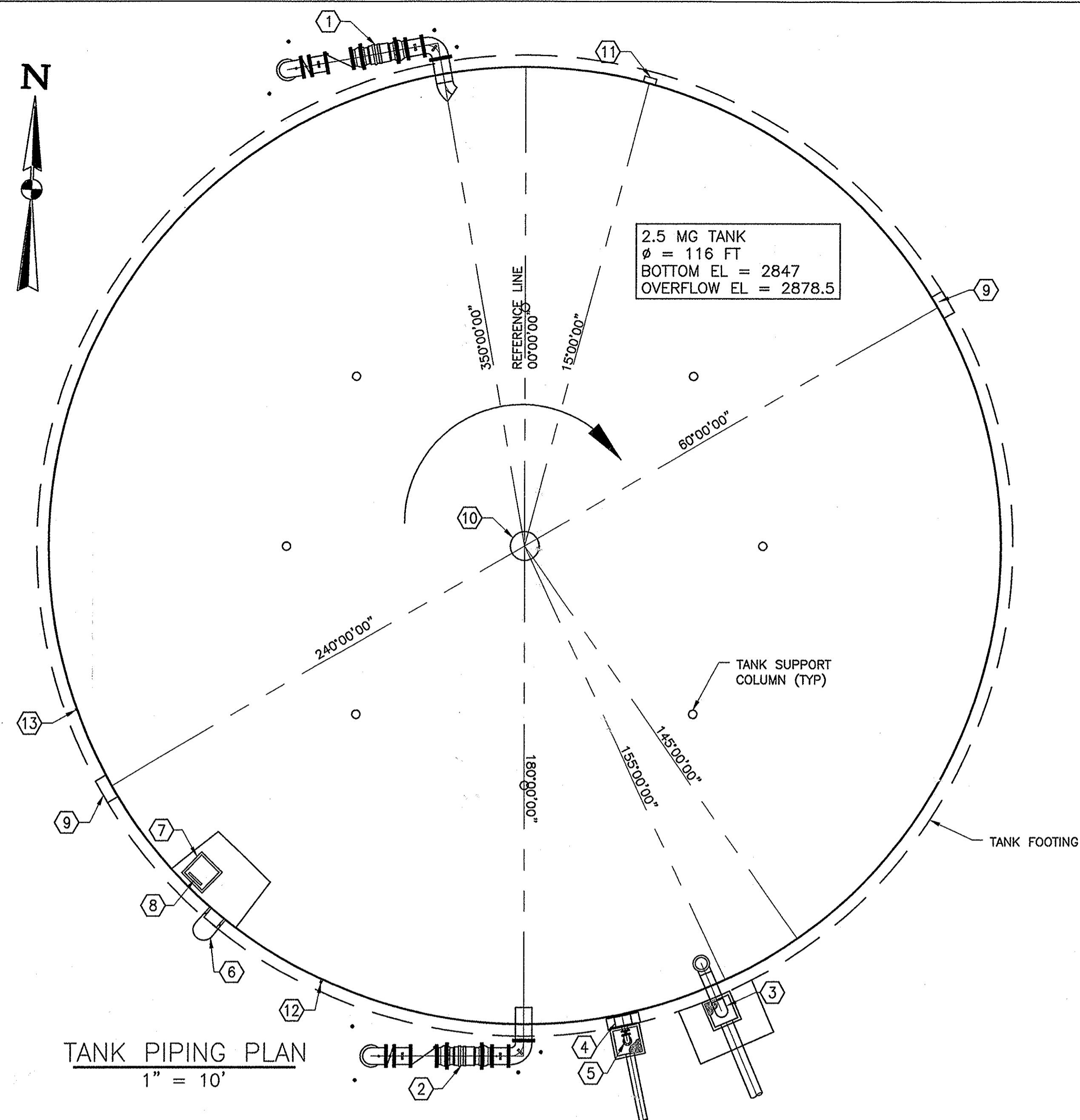
Job No. 723185-10010
 Designed JV
 Drawn JV
 Checked SG
 Approved JCR
 Reg. No.
 Date

Rev	Date	Description	By
1	12/2006	REVISE 24" INLET/OUTLET ALIGNMENT & 16" CONN. TO 24" INLET/OUTLET	SG

Benchmark: SEE DWG G-1
 Scale: AS SHOWN

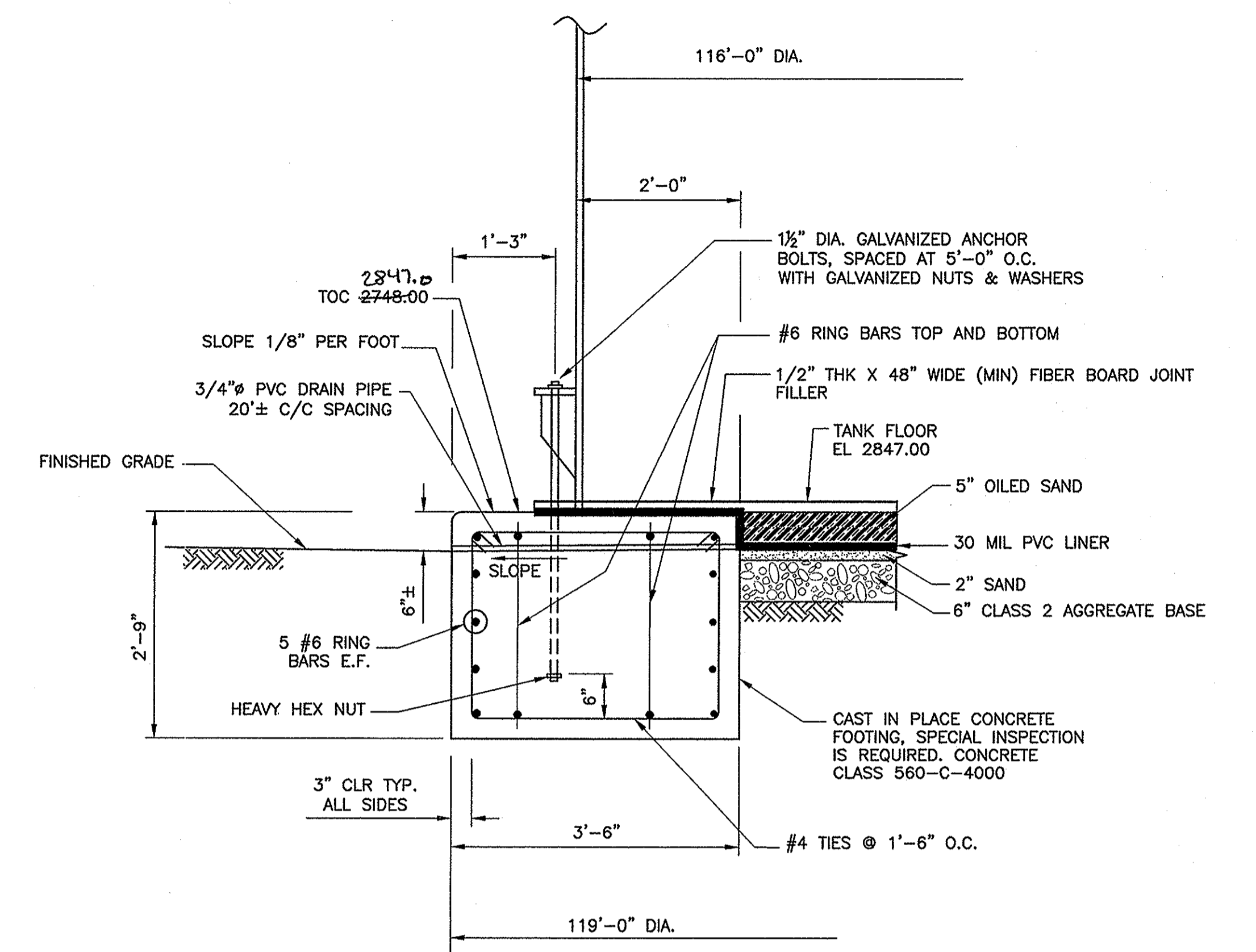
BEAUMONT CHERRY VALLEY WATER DISTRICT
 RIVERSIDE COUNTY, CALIFORNIA
 District Engineer: *[Signature]*
 R.C.E. No. 18034
 Date: 12/28/06

2.5 MG VINELAND TANK III
 PIPE PROFILES AND PIPE CONNECTION DETAILS
 Drawing No. C-3
 SHEET 5 OF 12



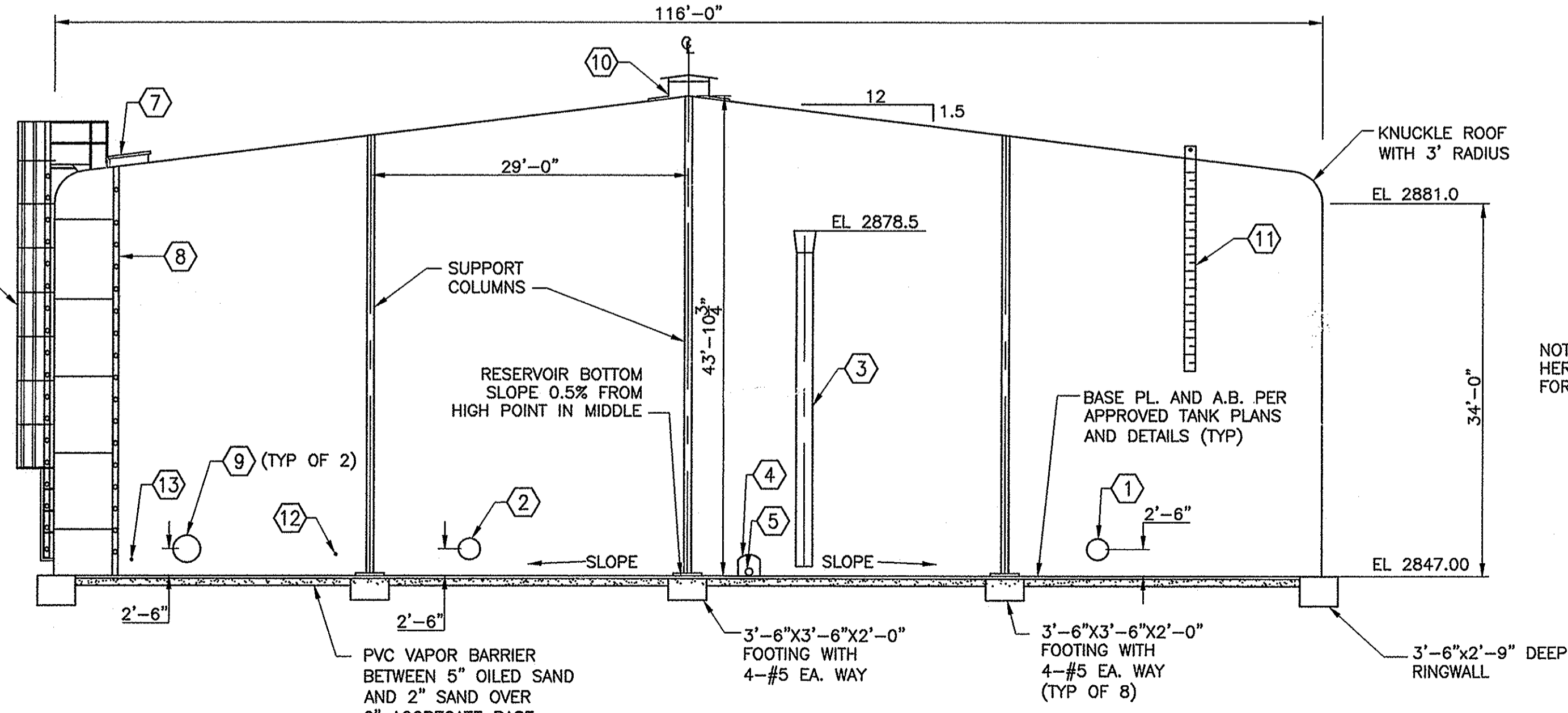
EQUIPMENT NOTES:

- ① 24" INLET PIPING, SEE (1/C-5)
- ② 24" OUTLET PIPING, SEE (2/C-5)
- ③ 18" OVERFLOW, SEE (1/C-6)
- ④ 24"x24" (API-650) FLUSH TYPE CLEANOUT, SEE (B/C-6)
- ⑤ 8" TANK DRAIN W/ 8" GV, SEE (1/C-6)
- ⑥ EXTERIOR LADDER AND SAFETY CAGE MEETING OSHA REQUIREMENTS, SEE (2/C-7)
- ⑦ 42" SQUARE ROOF MANHOLE, SEE (2/C-7)
- ⑧ INTERIOR STAINLESS STEEL LADDER—OSHA APPROVED WITH SAFETY CLIMB DEVICE, LADDER RUNGS SHALL BE NURLED, SEE (3/C-7)
- ⑨ 30" HINGED INWARD OPENING SHELL ACCESS MANWAY, SEE (4/C-7)
- ⑩ 42" ROOF VENT W/ REMOVABLE STAINLESS STEEL SCREEN
- ⑪ LIQUID LEVEL INDICATOR (HALF TRAVEL), SEE (1/C-7)
- ⑫ 2 1/2" TANK OUTLET CONNECTION, SEE (2/C-7)
- ⑬ 2" NOZZLE FOR PRESSURE TRANSMITTER, SEE (3/C-7)



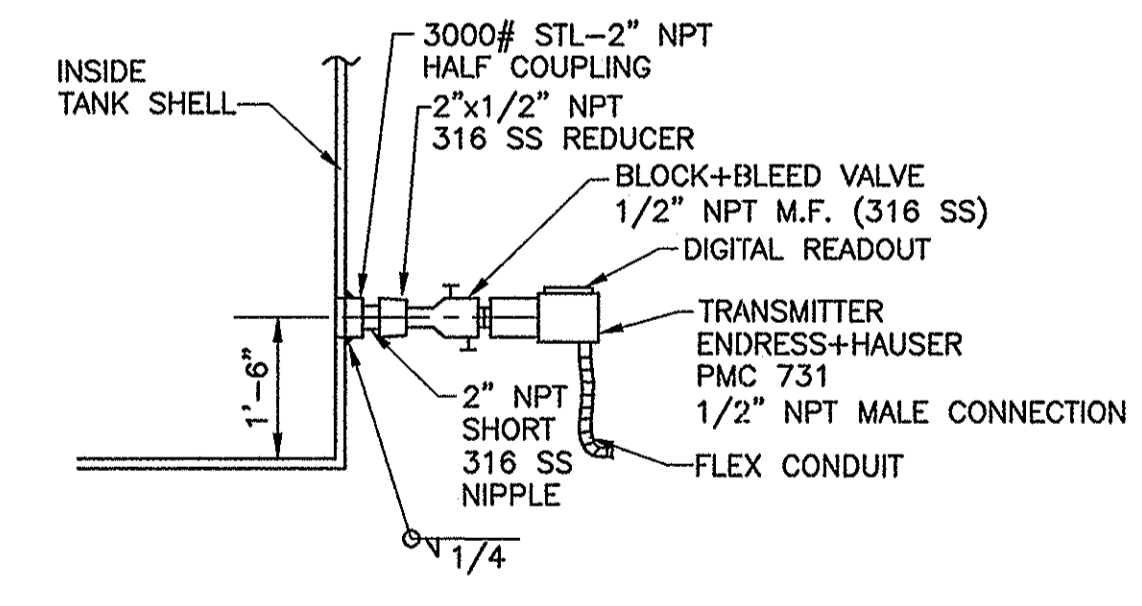
① RINGWALL DETAIL
SCALE: 3/4" = 1'-0"

TANK PIPING PLAN
1" = 10'



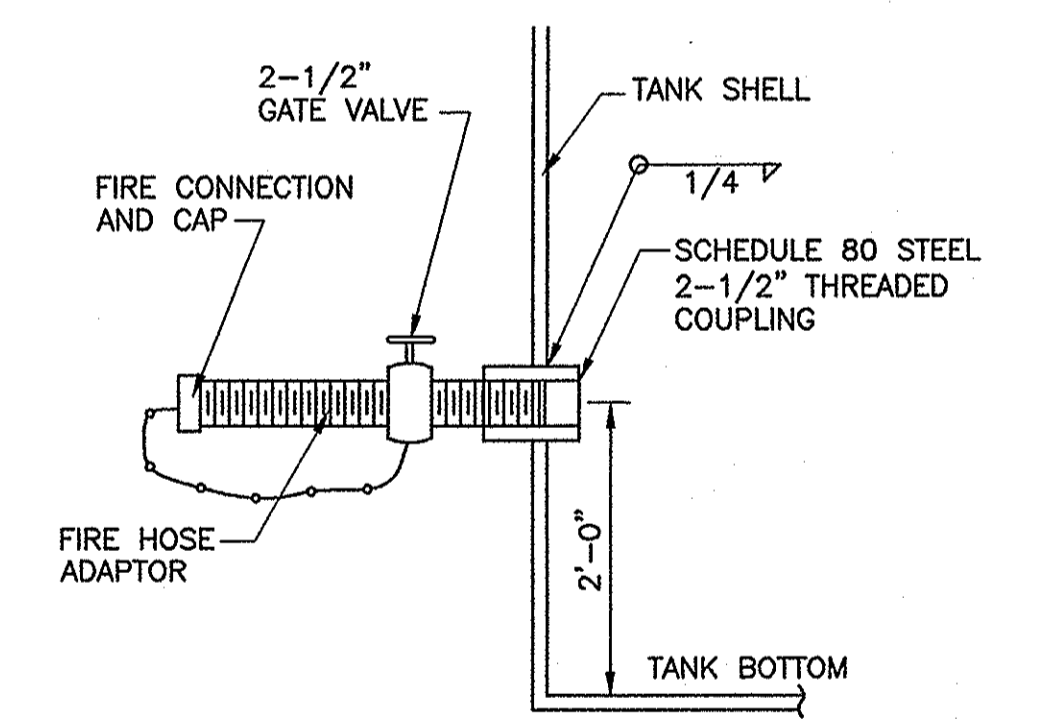
ELEVATION
1" = 10'

NOTE: RESERVOIR APPURTENANCES ARE SHOWN HERE FOR CLARITY, REFER TO RESERVOIR PLAN FOR ORIENTATION.

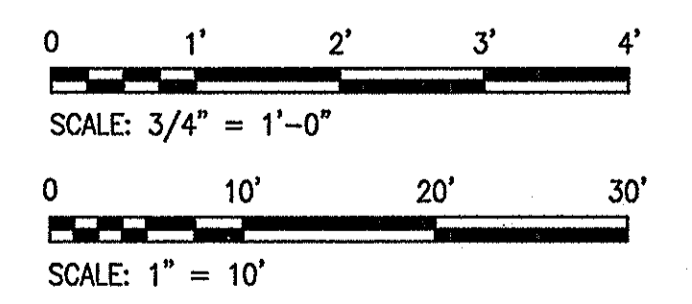


③ PRESSURE TRANSMITTER MOUNTING DETAIL
SCALE: NONE

NOTE: BCVWD WILL INSTALL CONDUIT AND TELEMETRY CABLE FROM THE VINELAND TANK SITE TO WELL 16 CONTROL PANEL. CONTRACTOR SHALL CONNECT THE TELEMETRY CABLE AT THE VINELAND TANK SITE TO THE NEW PRESSURE TRANSMITTER AND CONNECT THE TELEMETRY CABLE TO THE WELL 16 CONTROL PANEL. CONTRACTOR SHALL TEST AND CALIBRATE THE PRESSURE TRANSMITTER.

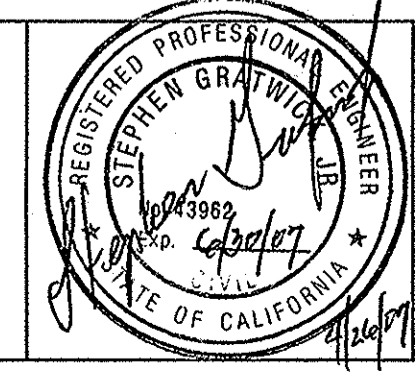


② 2-1/2" TANK OUTLET CONNECTION
SCALE: NONE



ISSUE FOR CONSTRUCTION

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA 91124
(626) 440-4000



Job No.	723185-10010		
Designed	JV		
Drawn	JV		
Checked	SG		
Approved	JCR		
Reg. No.			
Date			
Rev	Date	Description	By

Benchmark	SEE DWG G-1
Scale	AS SHOWN

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

[Signature]
District Engineer

R.C.E. No. 18034

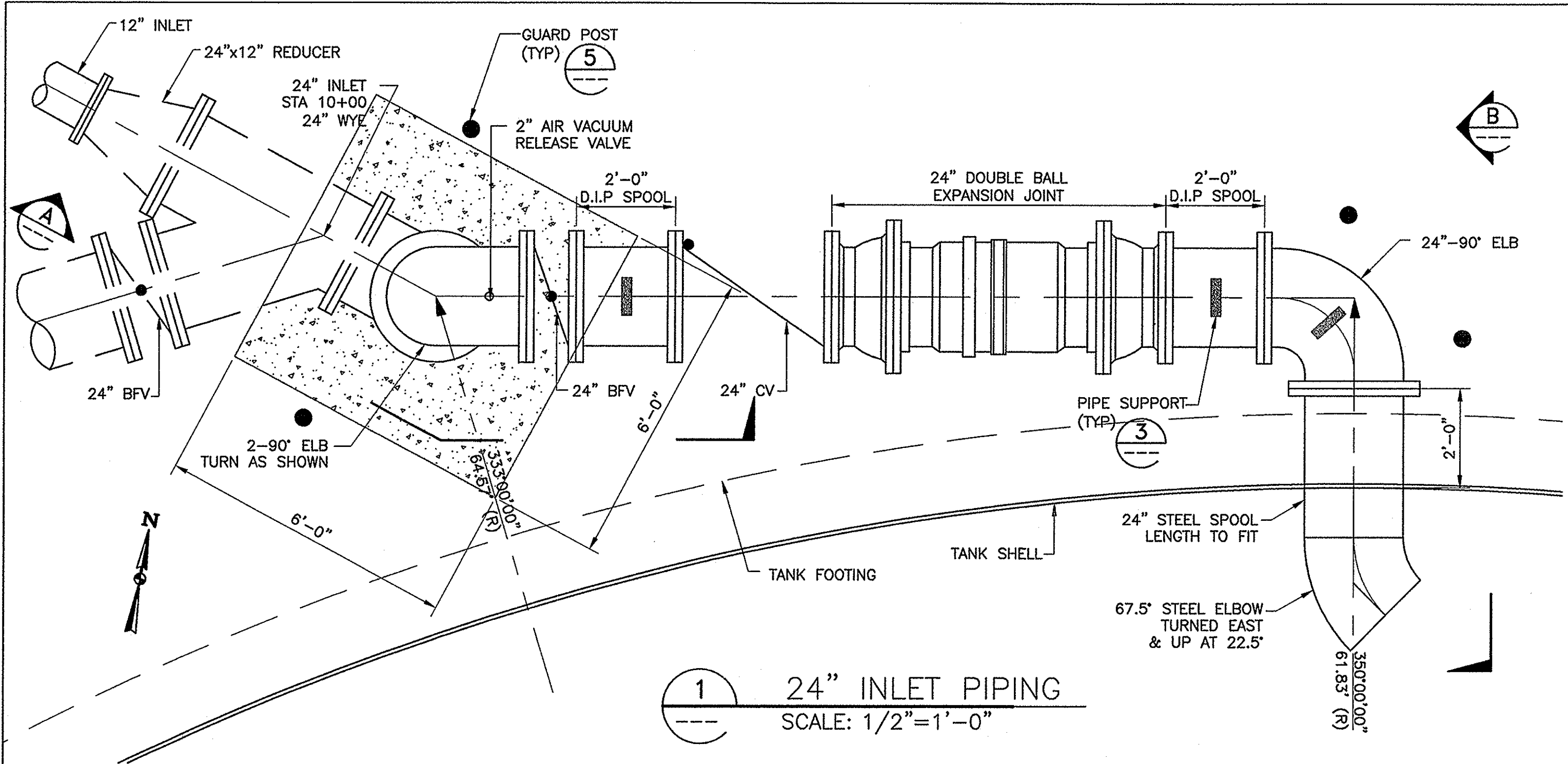
4/26/06
Date

2.5 MG VINELAND TANK III

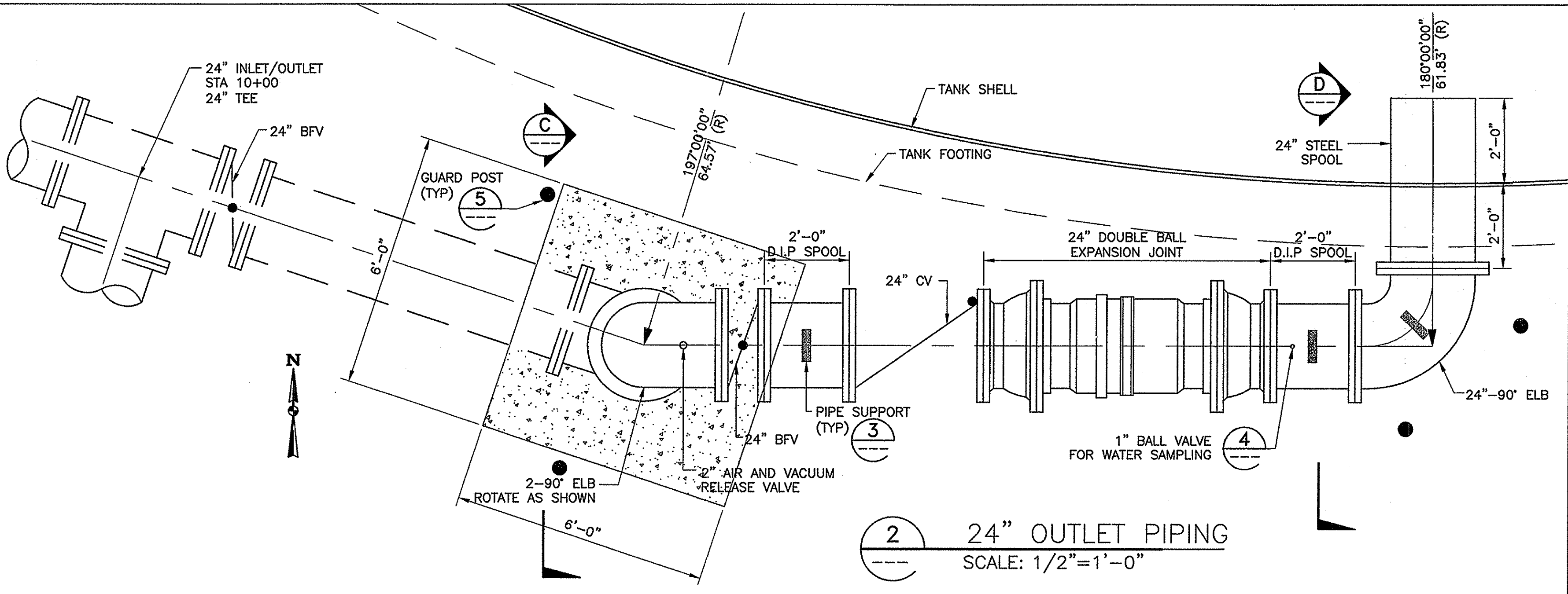
TANK PIPING PLAN/ELEVATION
AND MISC. DETAILS

Drawing No. C-4

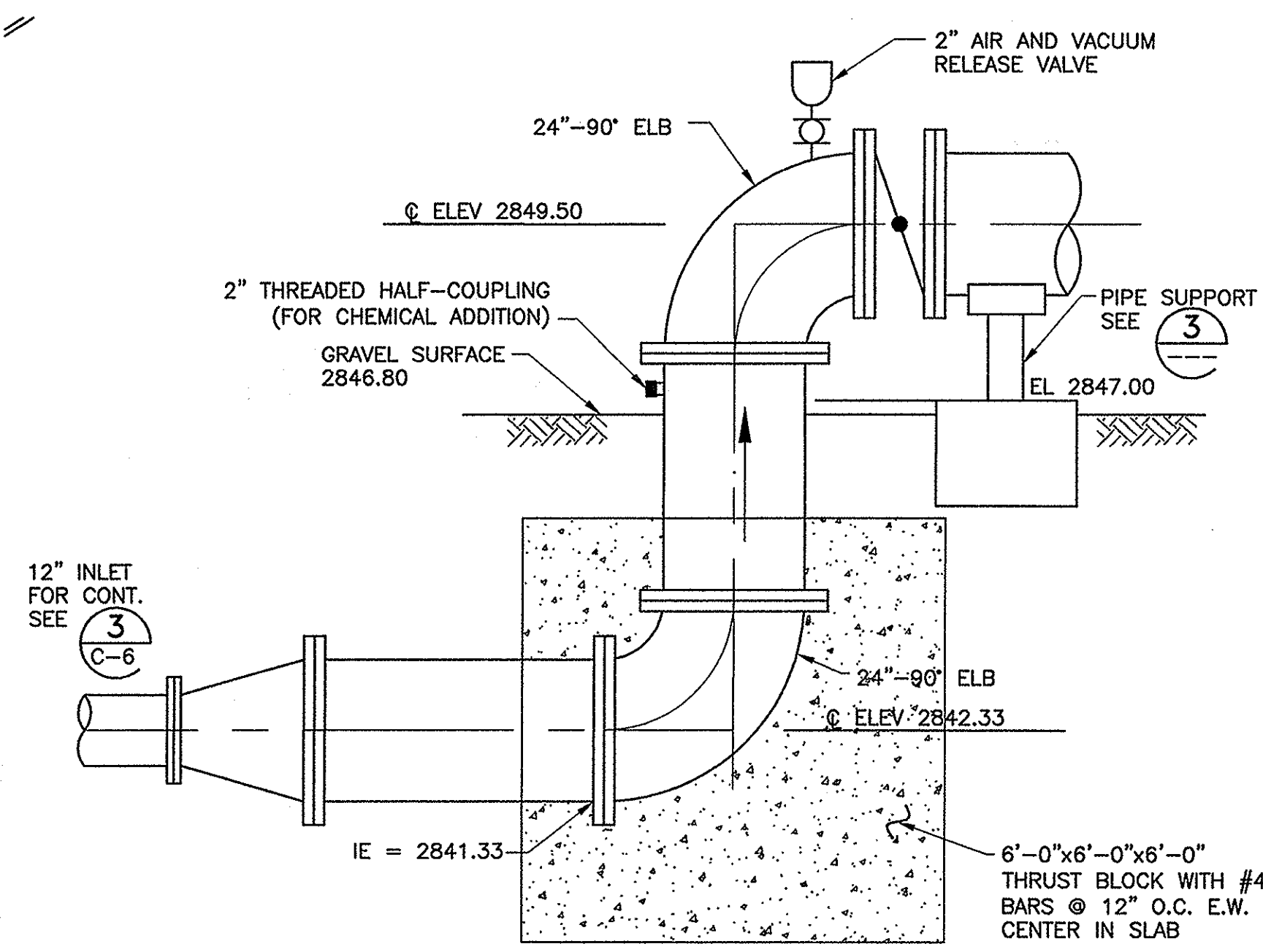
SHEET 6 OF 12



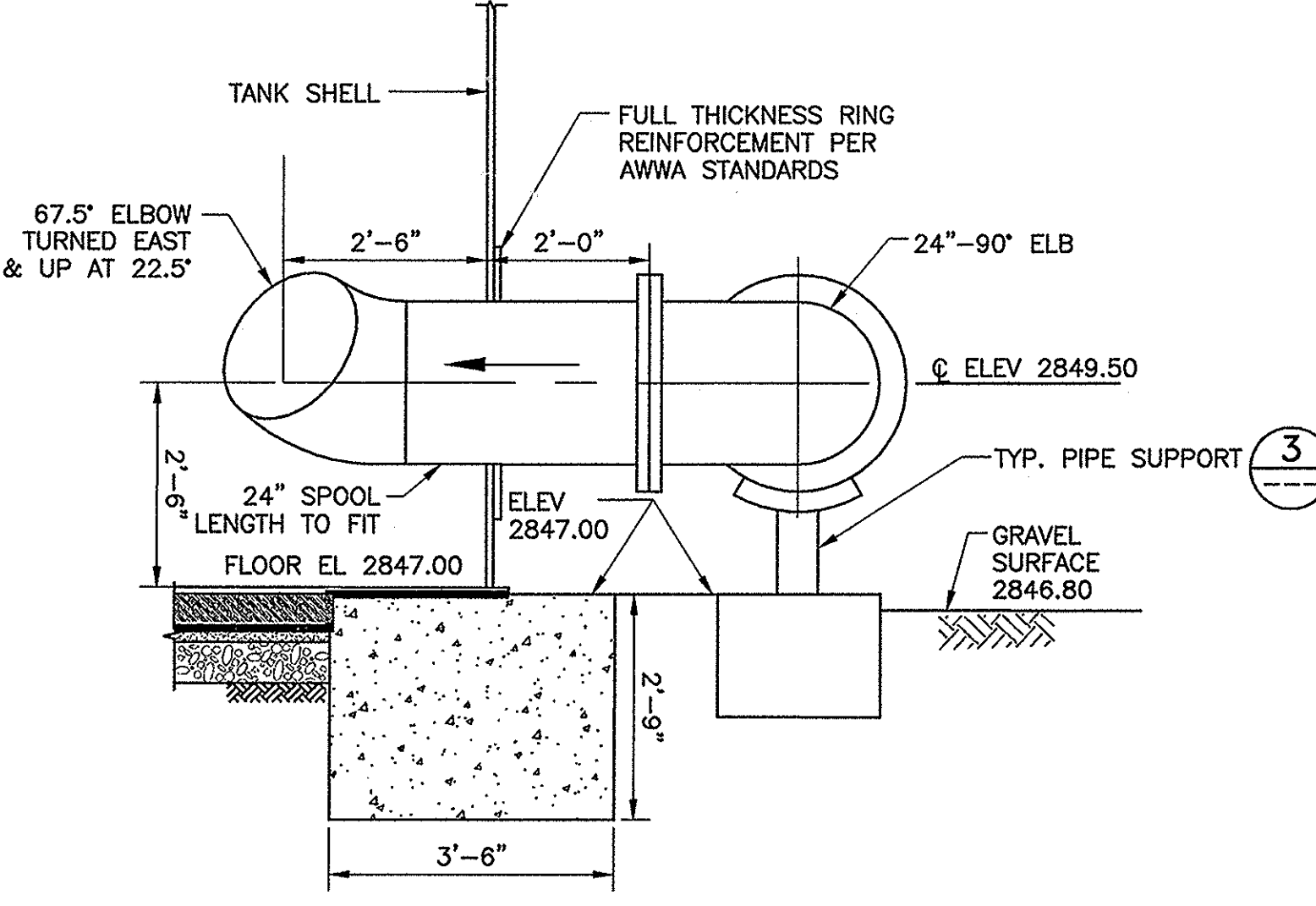
1 24" INLET PIPING
SCALE: 1/2"=1'-0"



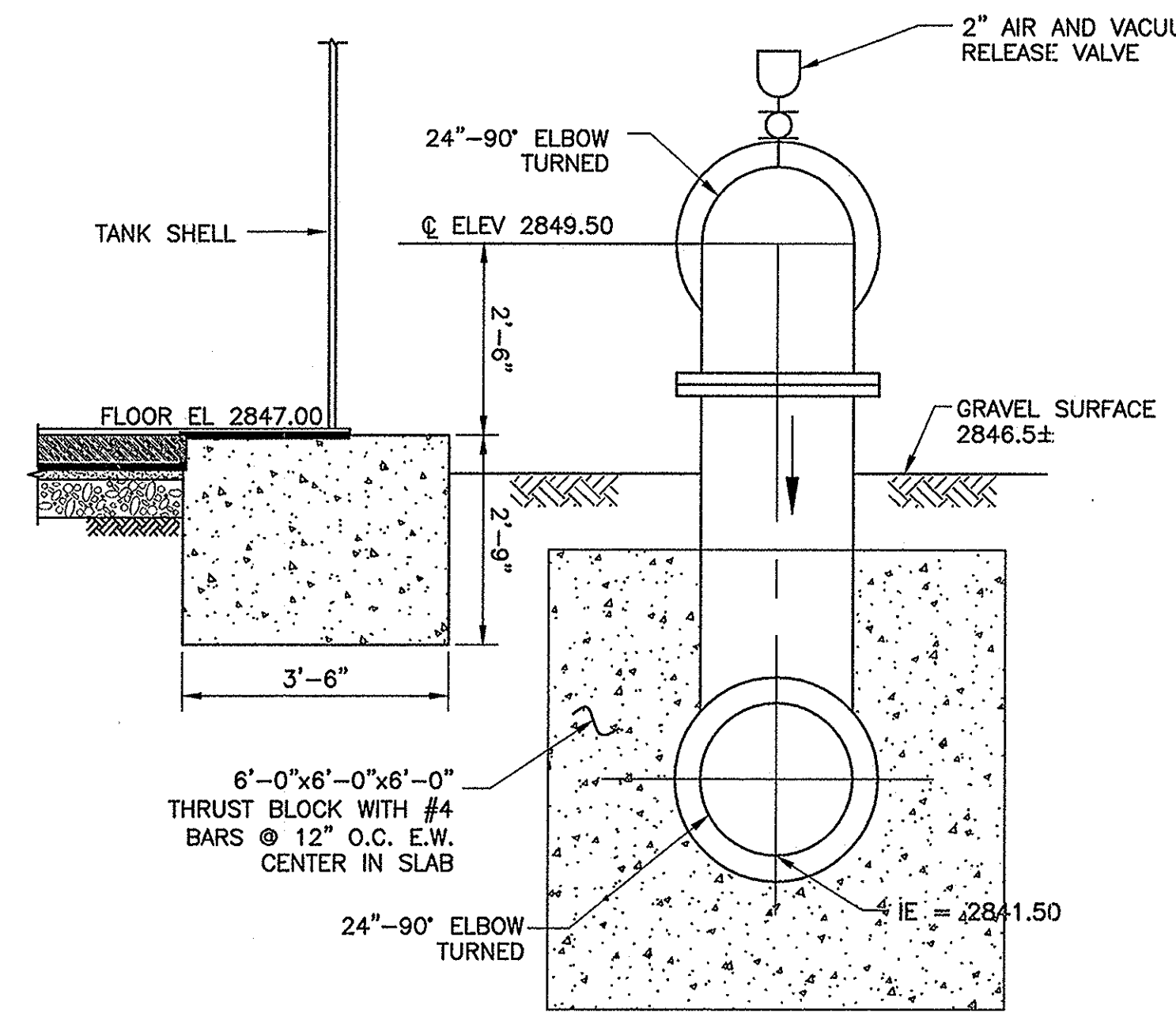
2 24" OUTLET PIPING
SCALE: 1/2"=1'-0"



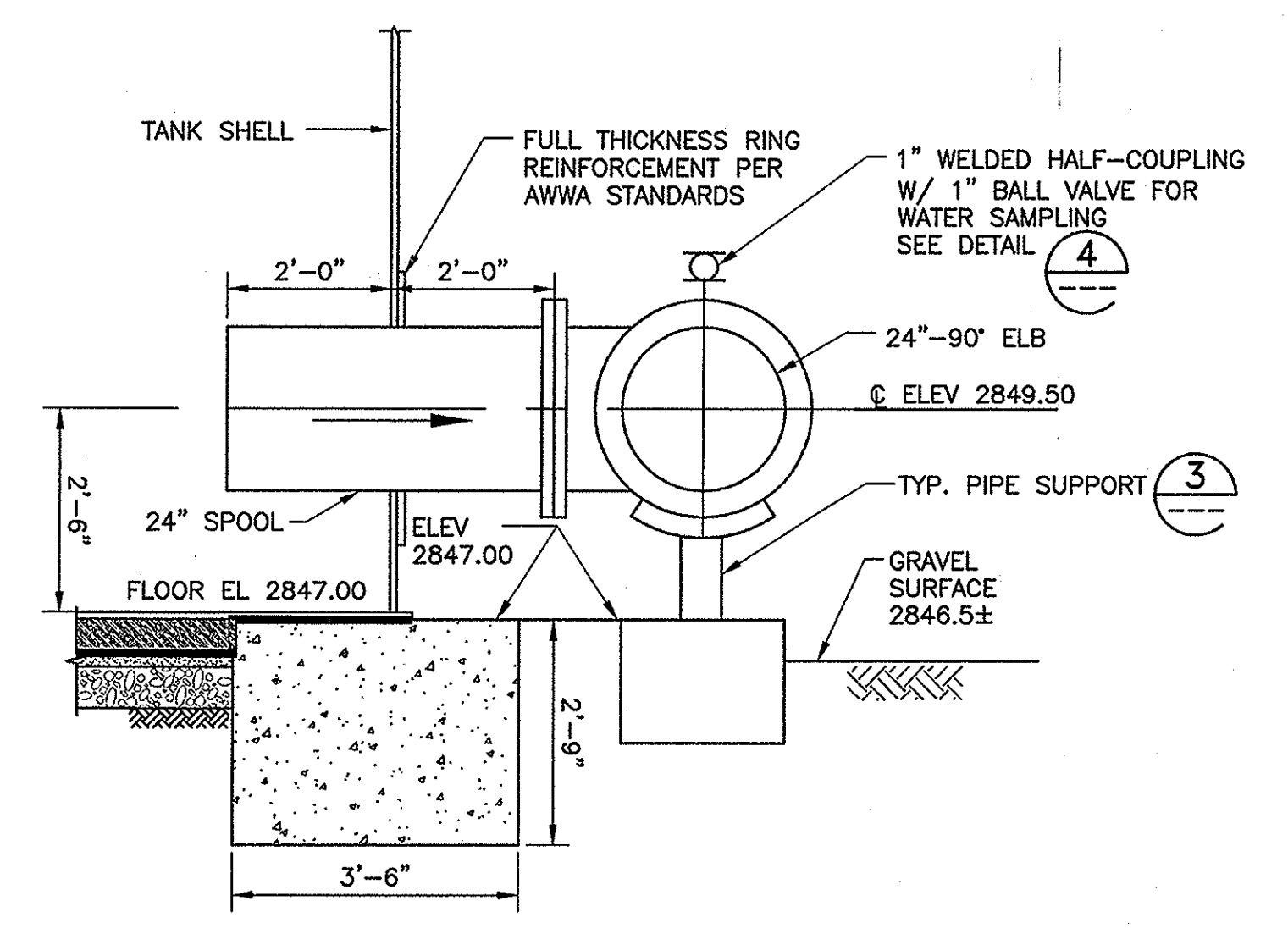
A 24" INLET PIPING
SCALE: 1/2"=1'-0"



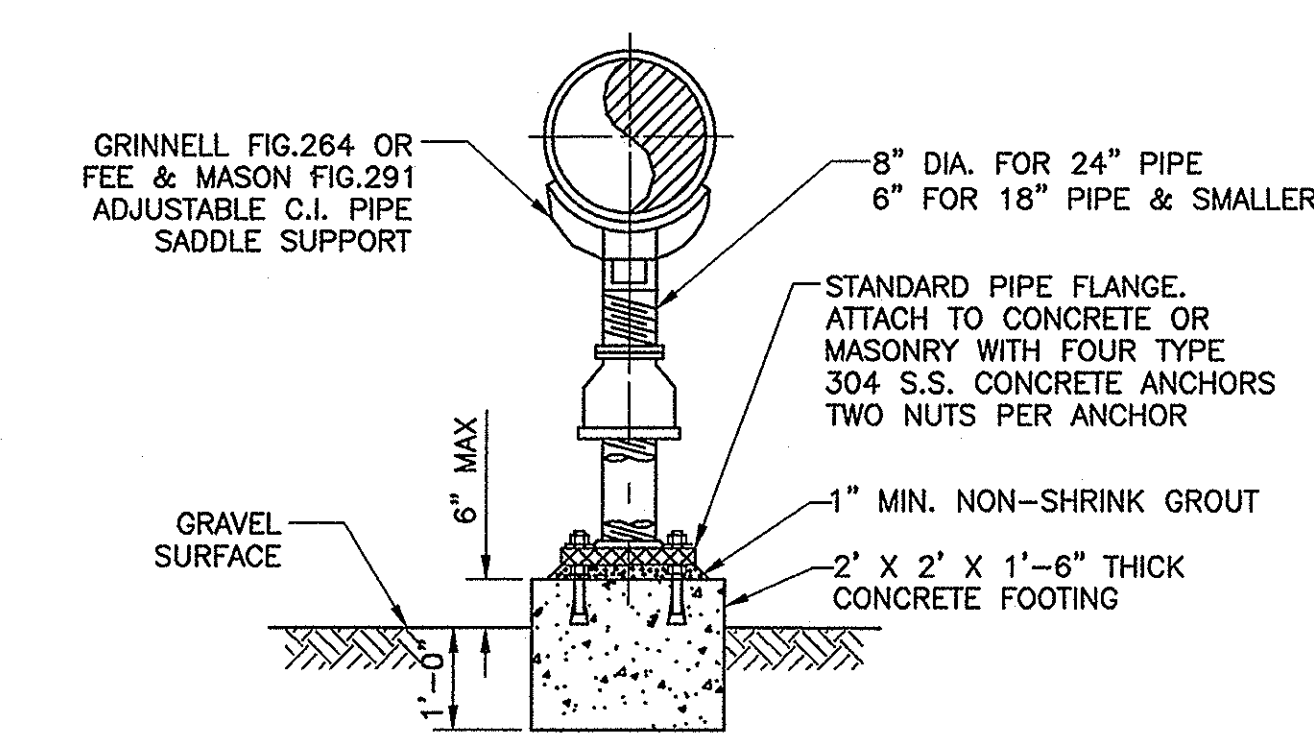
B 24" INLET PIPING
SCALE: 1/2"=1'-0"



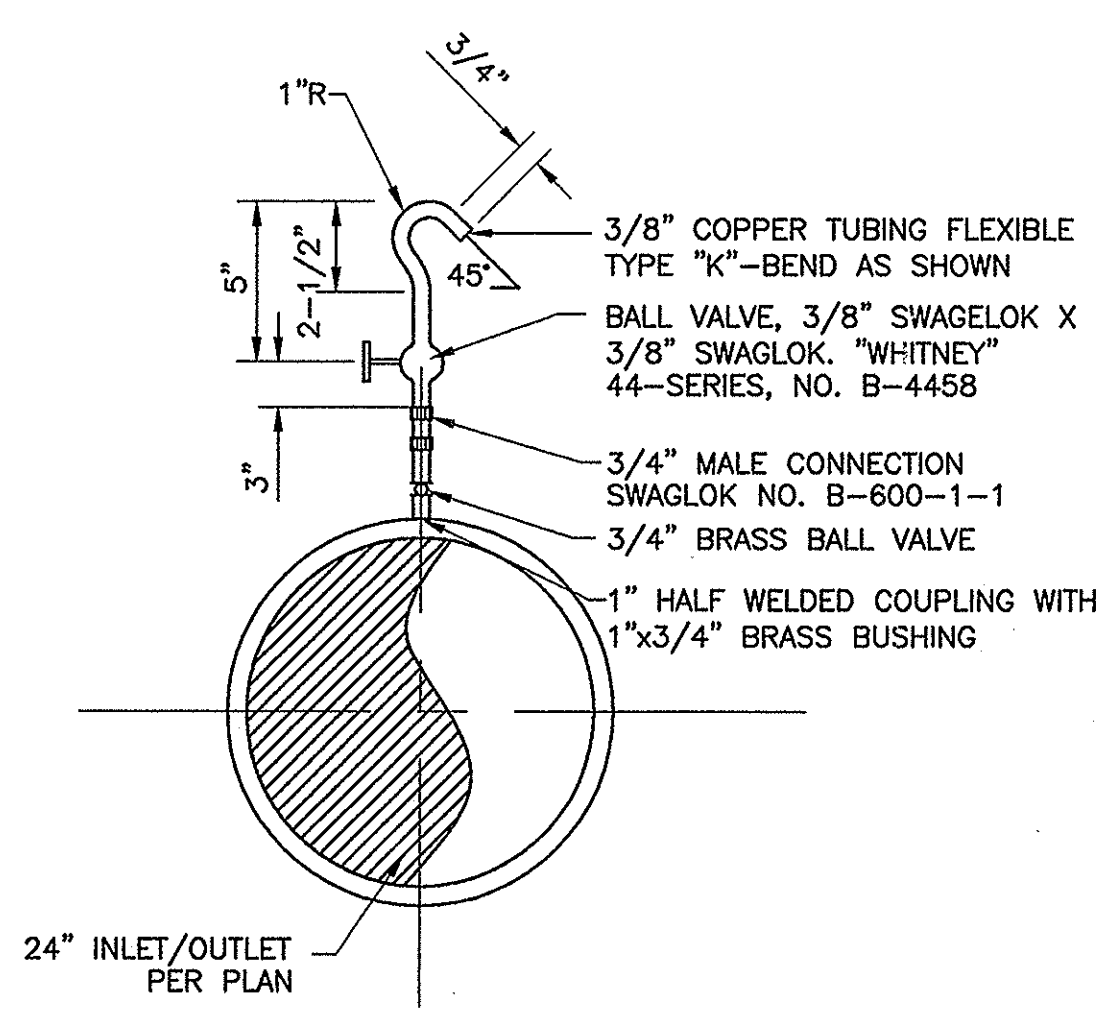
C 24" OUTLET PIPING
SCALE: 1/2"=1'-0"



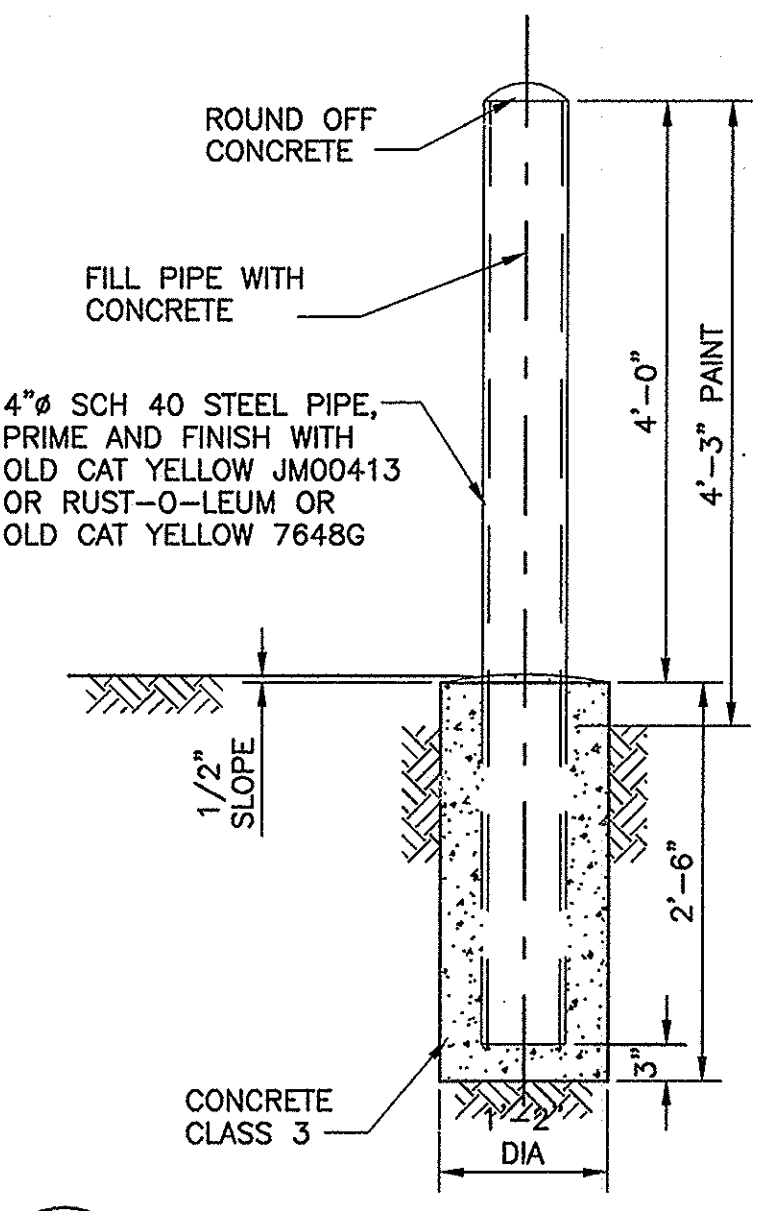
D 24" OUTLET PIPING
SCALE: 1/2"=1'-0"



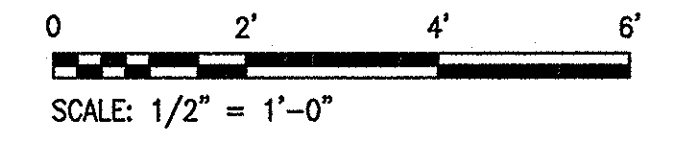
3 TYPICAL PIPE SUPPORT
SCALE: NONE



4 WATER SAMPLING STATION
SCALE: NONE



5 GUARD POST
SCALE: NONE



ISSUE FOR CONSTRUCTION

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA 91124
(626) 440-4000

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 3992
Exp. 12/31/12

Job No.	723185-10010		
Designed	JV		
Drawn	JV		
Checked	SG		
Approved	JCR		
Reg. No.			
Date			
Rev	Date	Description	By

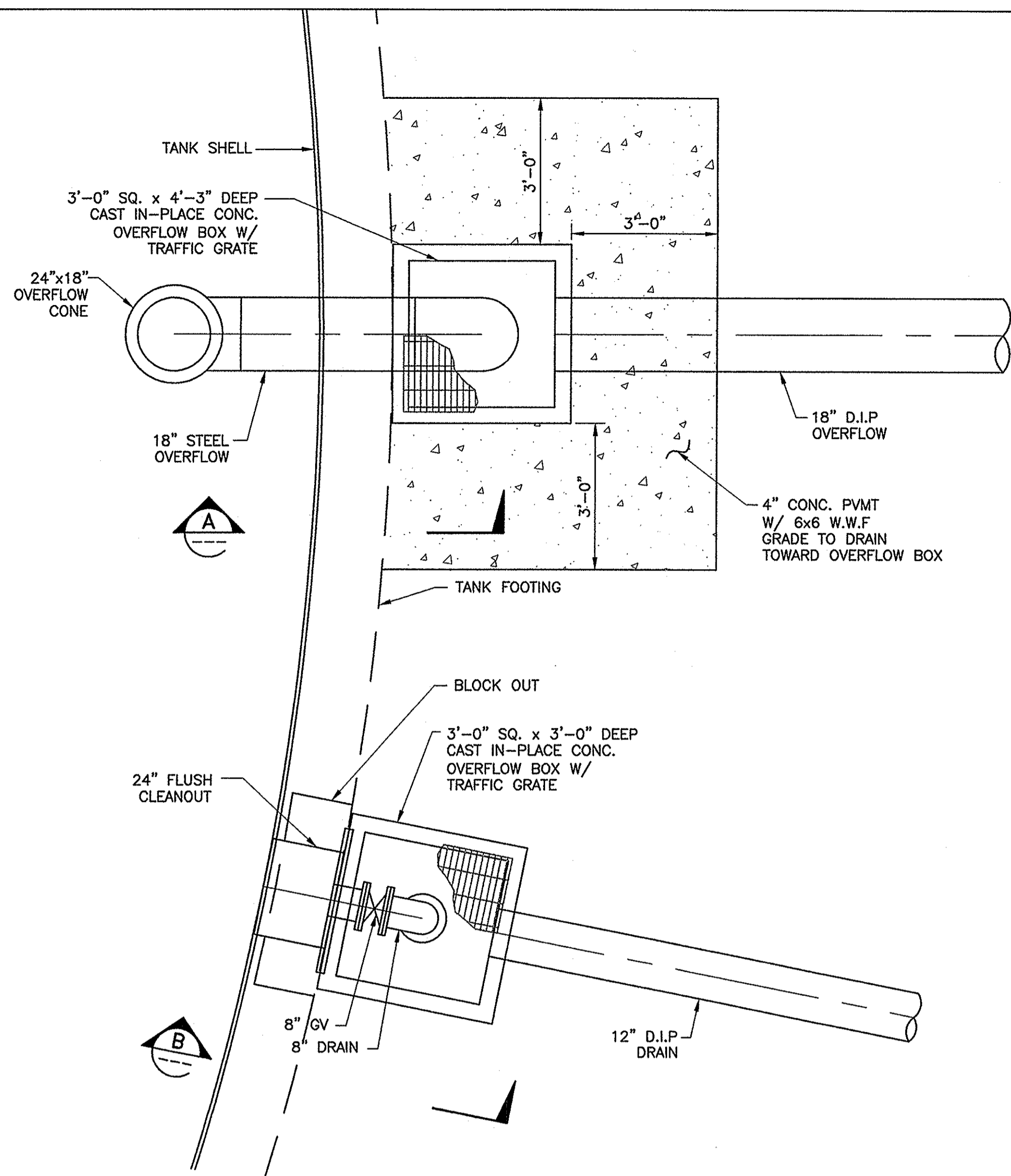
Benchmark
SEE DWG G-1
Scale
AS SHOWN

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

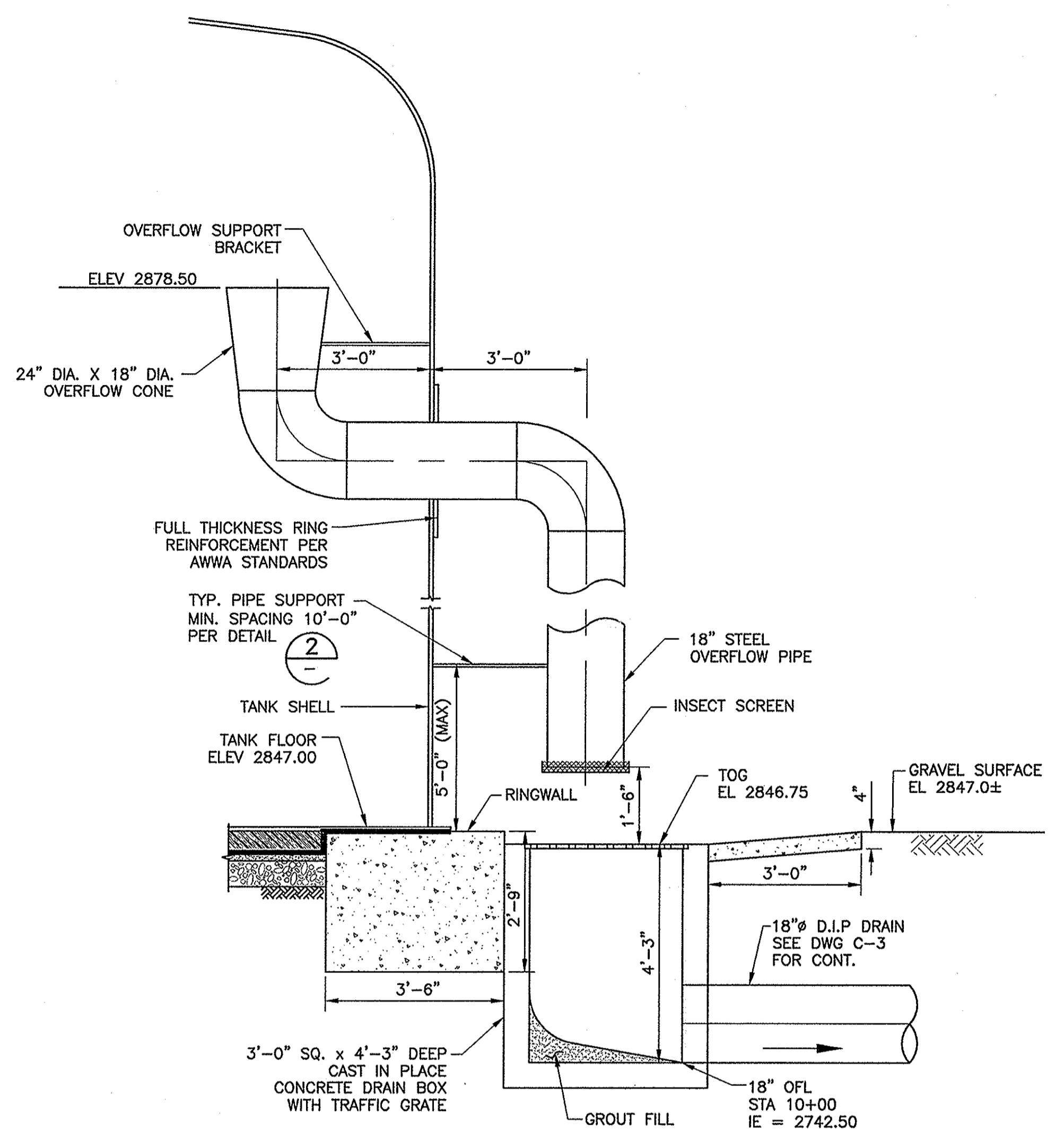
J. J. [Signature]
District Engineer

R.C.E. No. 18034
Date 9/26/10

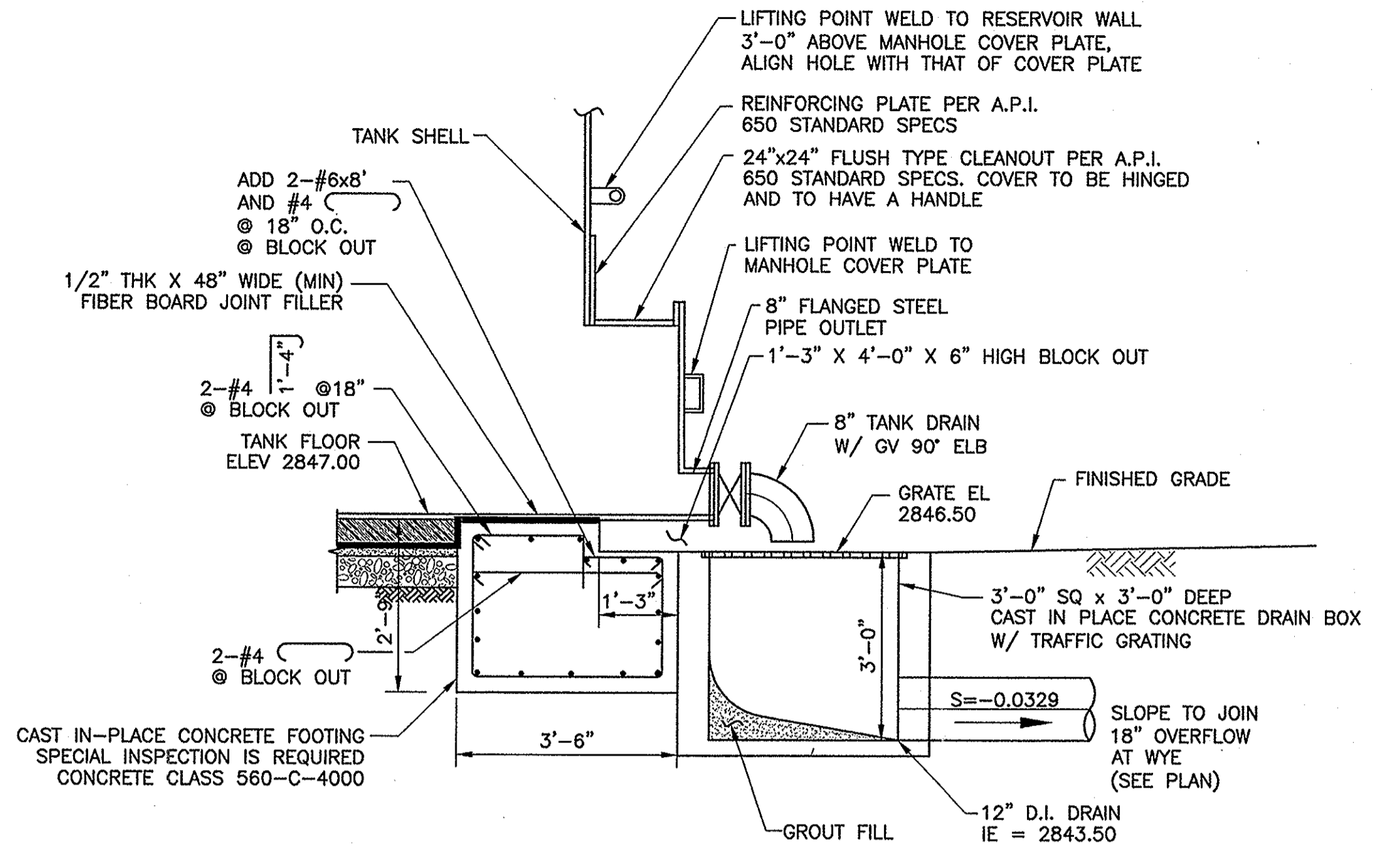
2.5 MG VINELAND TANK III
INLET/OUTLET PIPING
PLANS/SECTIONS AND DETAILS
SHEET 7 OF 12



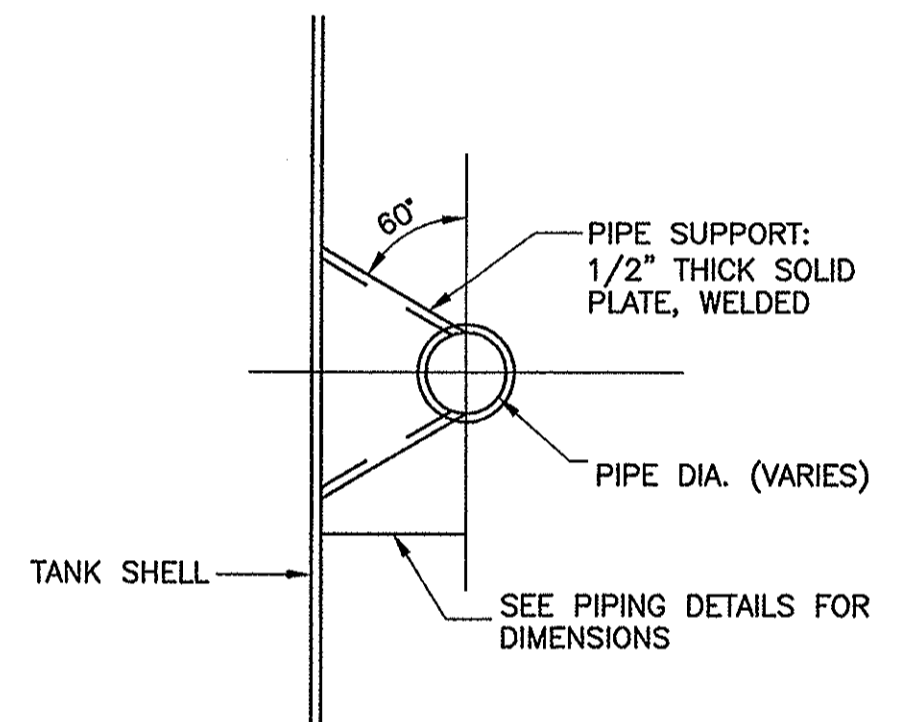
1 OVERFLOW & DRAIN PIPING
SCALE: 1/2" = 1'-0"



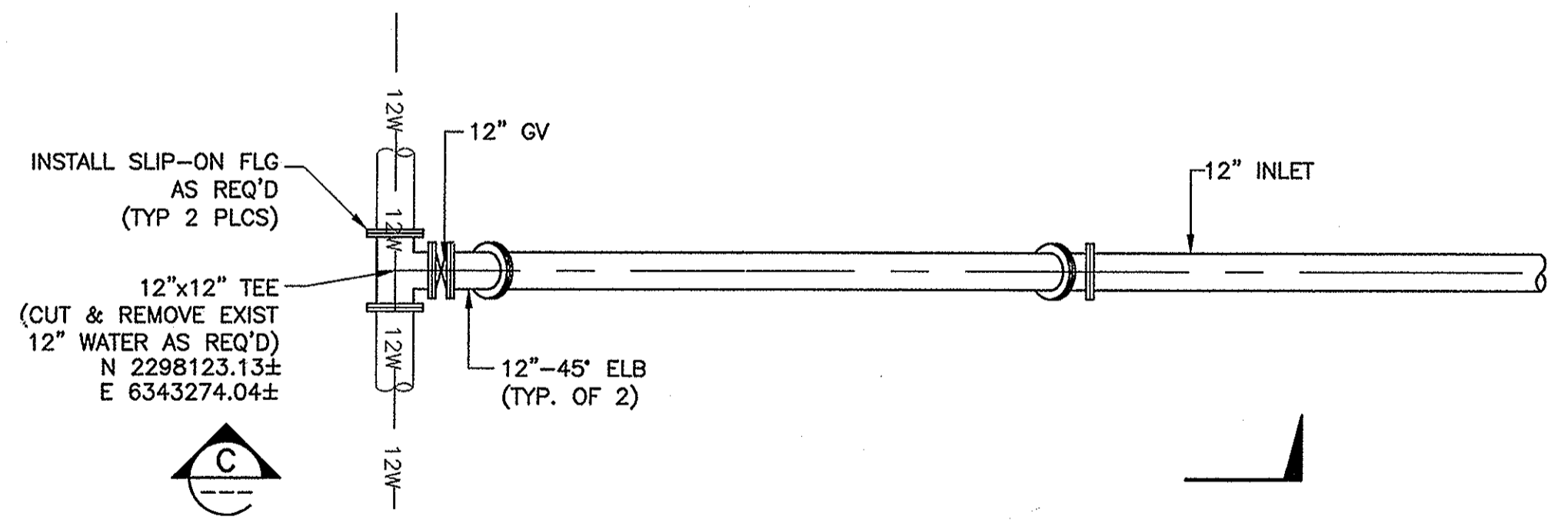
A SECTION - 18" OVERFLOW
SCALE: 1/2" = 1'-0"



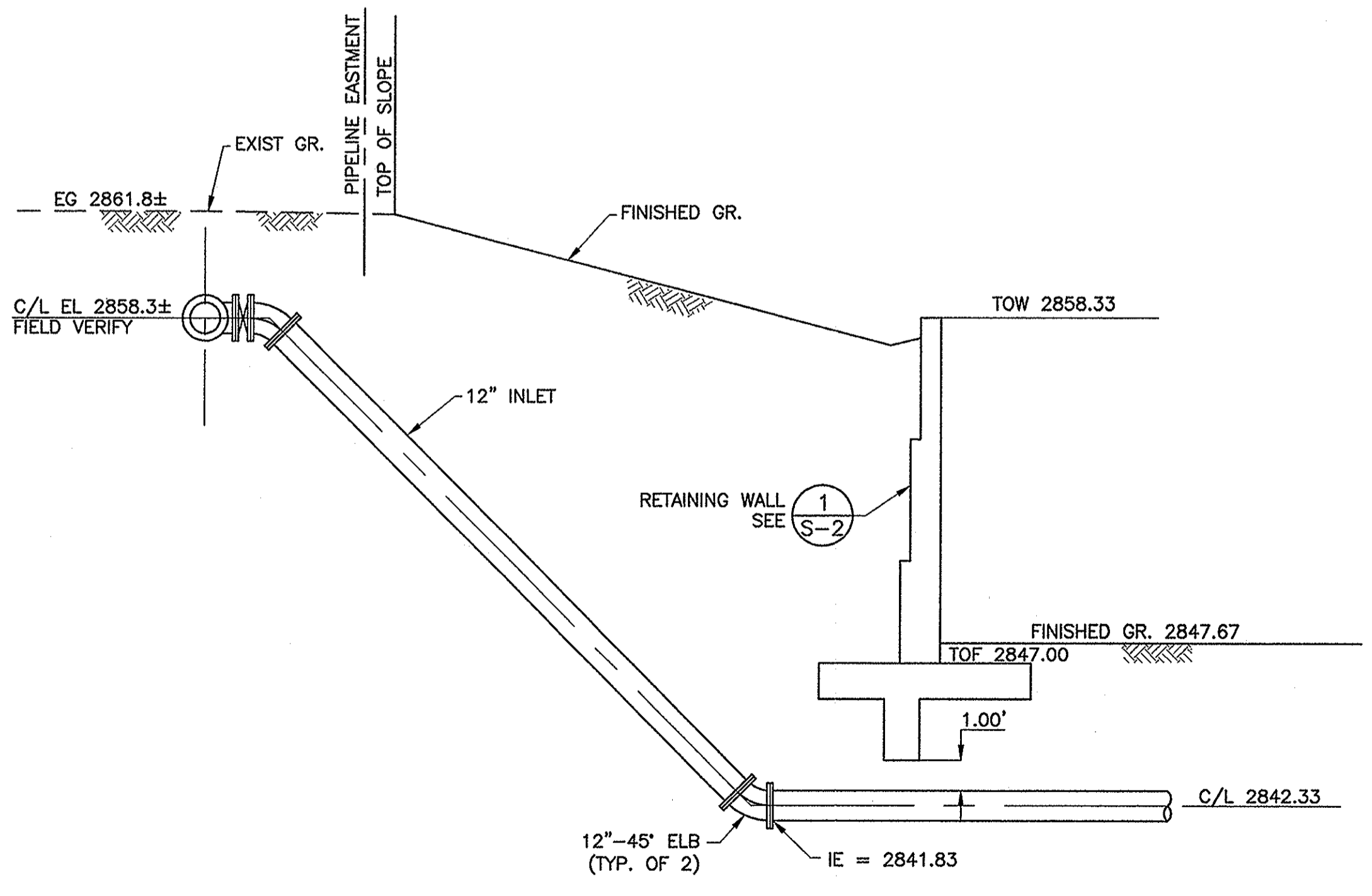
B SECTION - TANK DRAIN
SCALE: 1/2" = 1'-0"



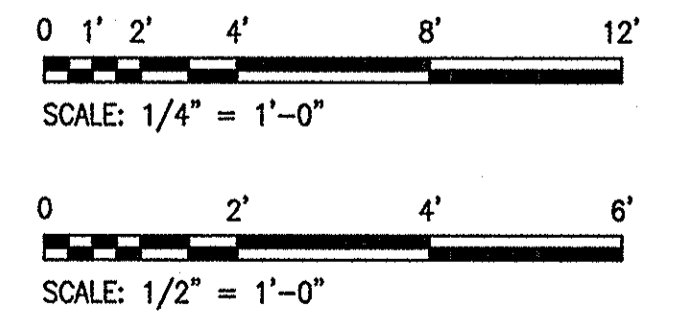
2 PIPE SUPPORT DETAIL
SCALE: NONE



3 12" INLET CONN. TO EXIST 12" WATER
SCALE: 1/4" = 1'-0"

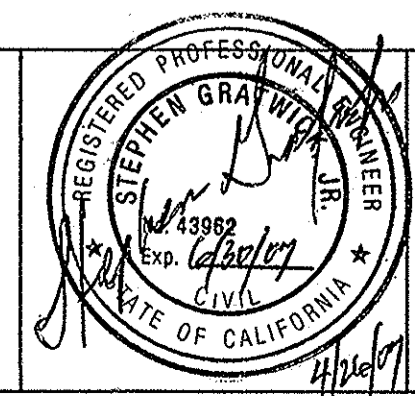


C SECTION
SCALE: 1/4" = 1'-0"



ISSUE FOR CONSTRUCTION

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA 91124
(626) 440-4000

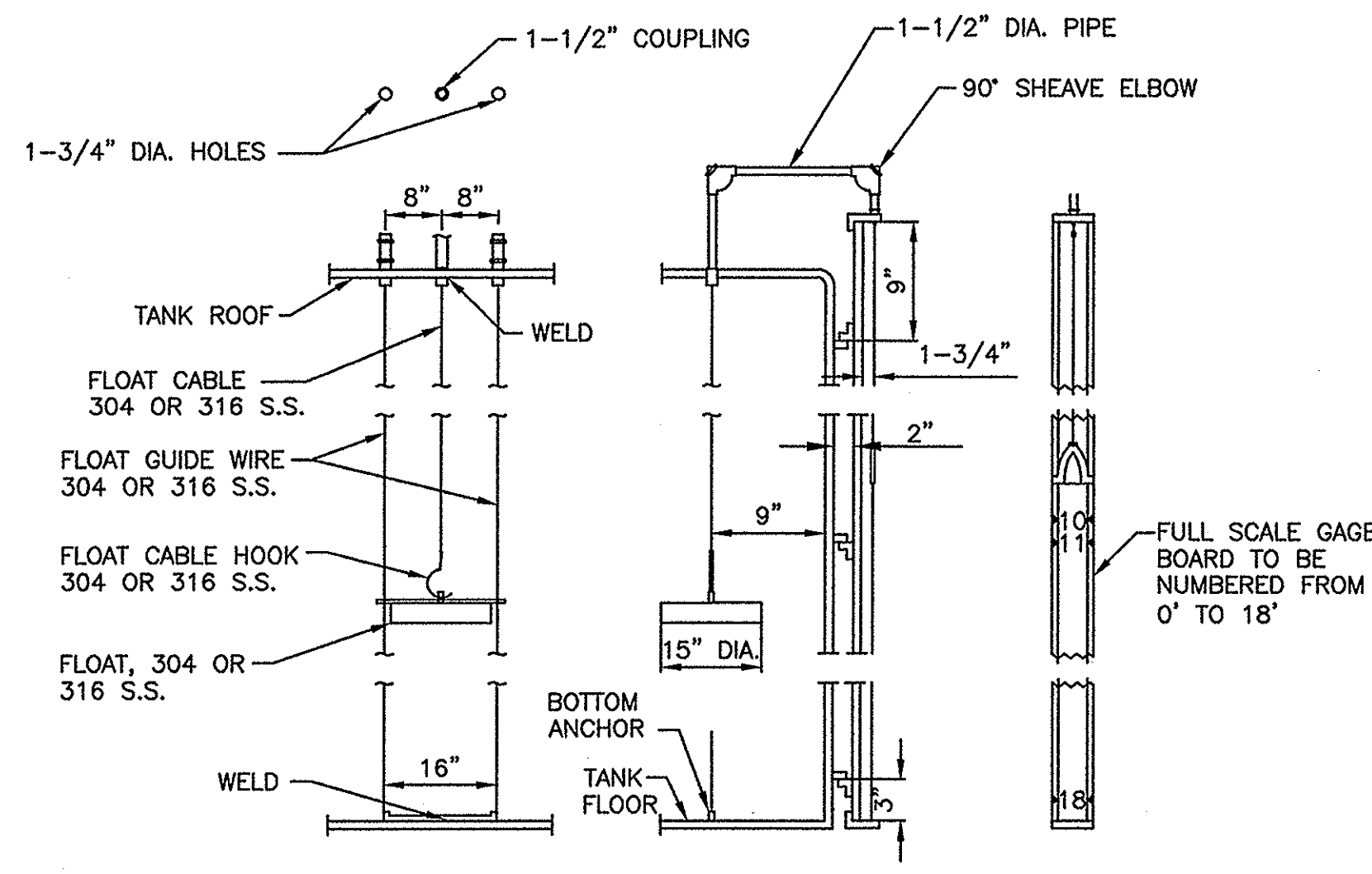


Job No.	723185-10010	
Designed	JV	
Drawn	JV	
Checked	SG	
Approved	JCR	
Reg. No.		
Date		
Rev	Date	Description

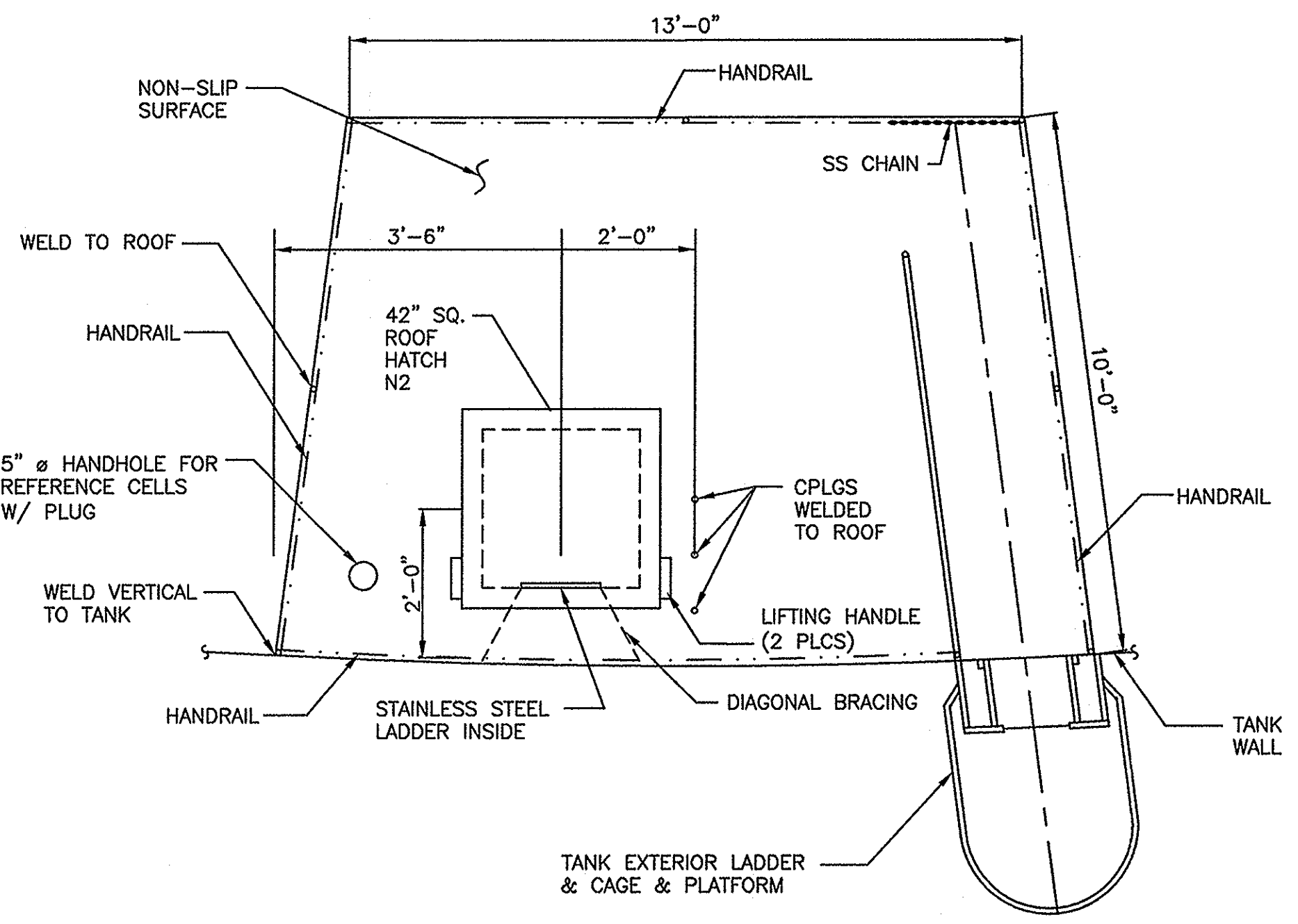
Benchmark
SEE DWG G-1
Scale
AS SHOWN

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA
J. J. [Signature]
District Engineer
R.C.E. No. 18034
Date

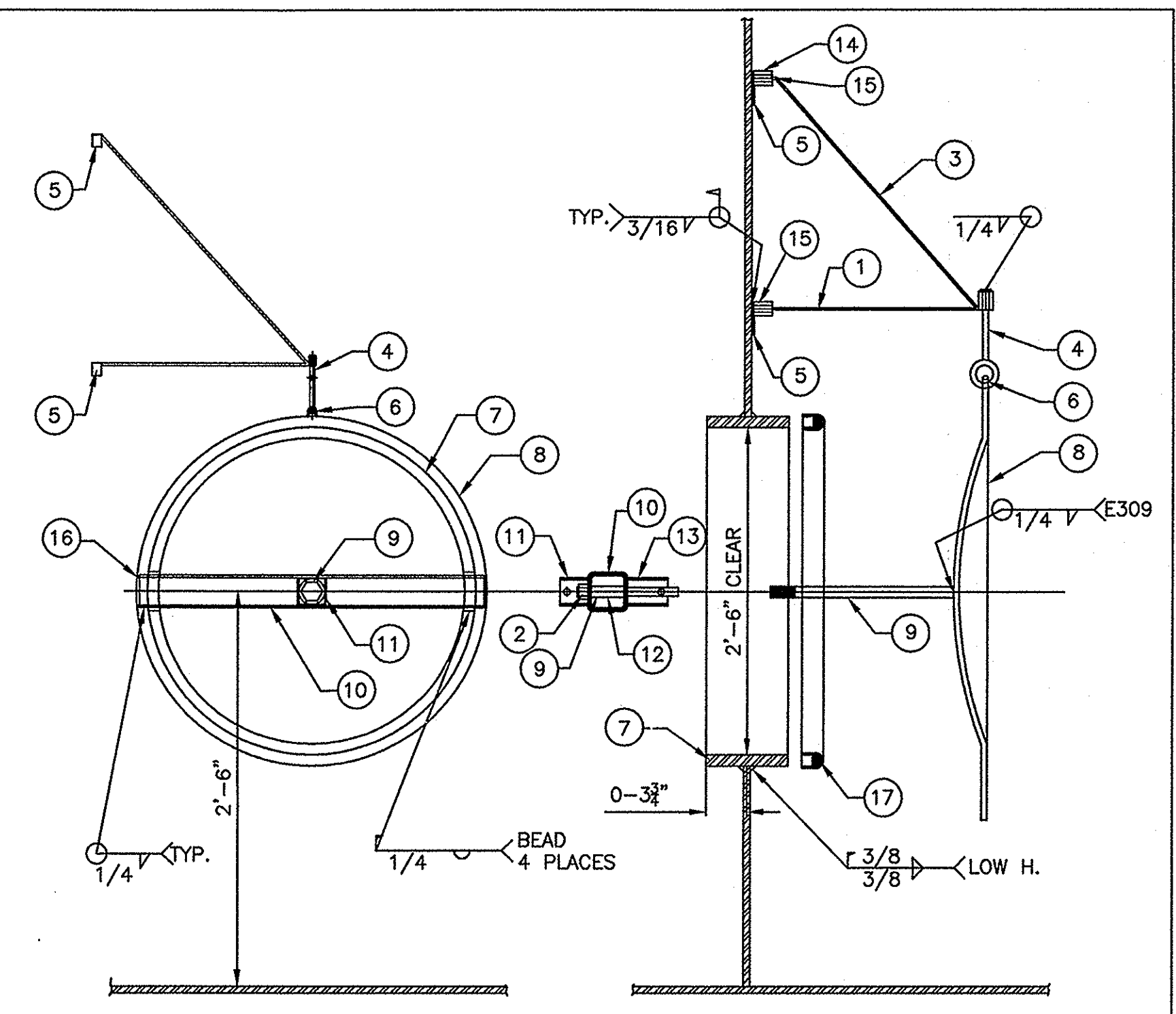
2.5 MG VINELAND TANK III
OVERFLOW AND DRAIN - PLAN AND SECTIONS
12" INLET CONNECTION DETAILS
Drawing No. C-6
SHEET 8 OF 12



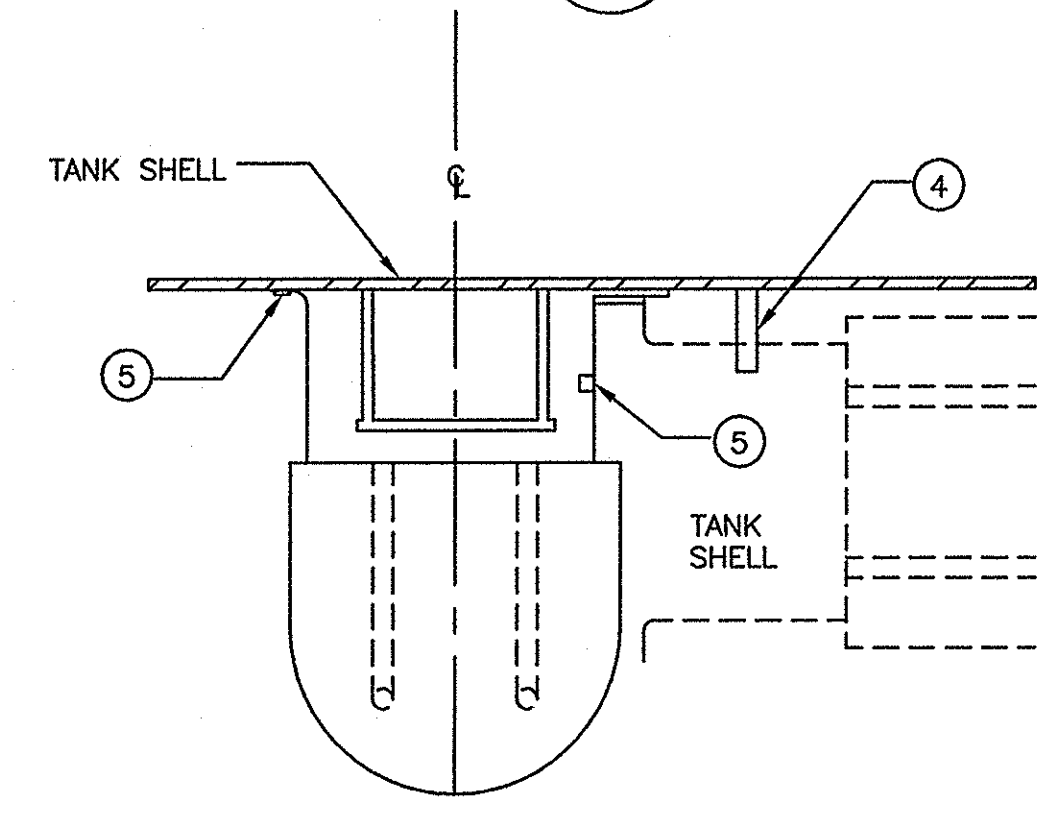
1 LIQUID LEVEL INDICATOR
SCALE: NONE



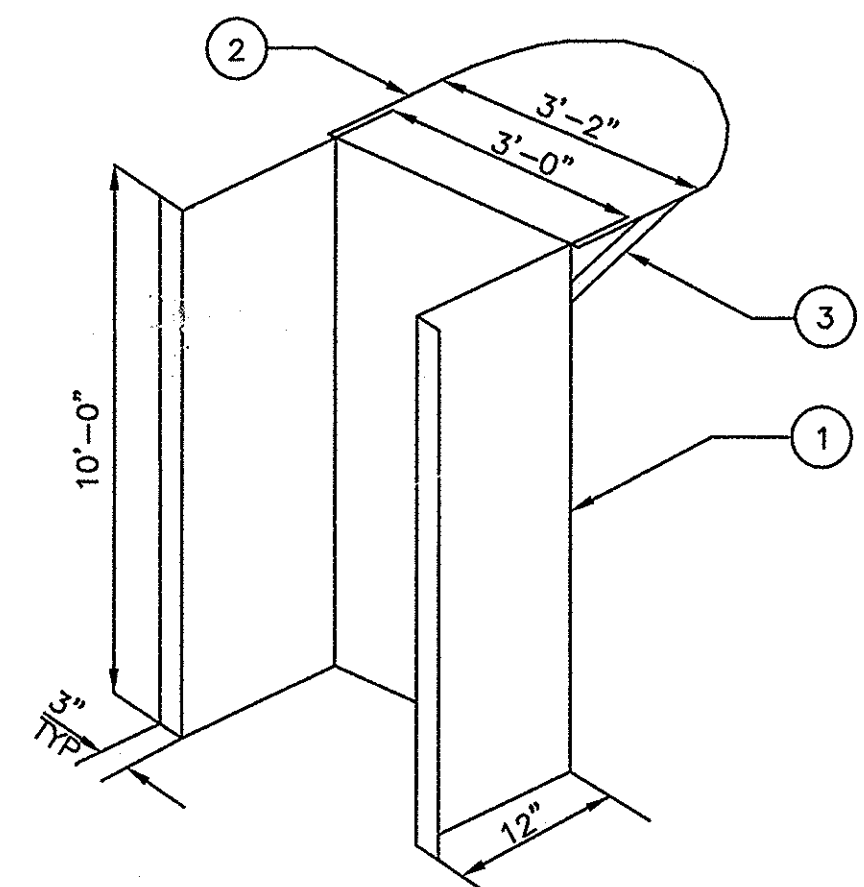
2 LADDER AND ACCESS HATCH DETAIL
SCALE: NONE



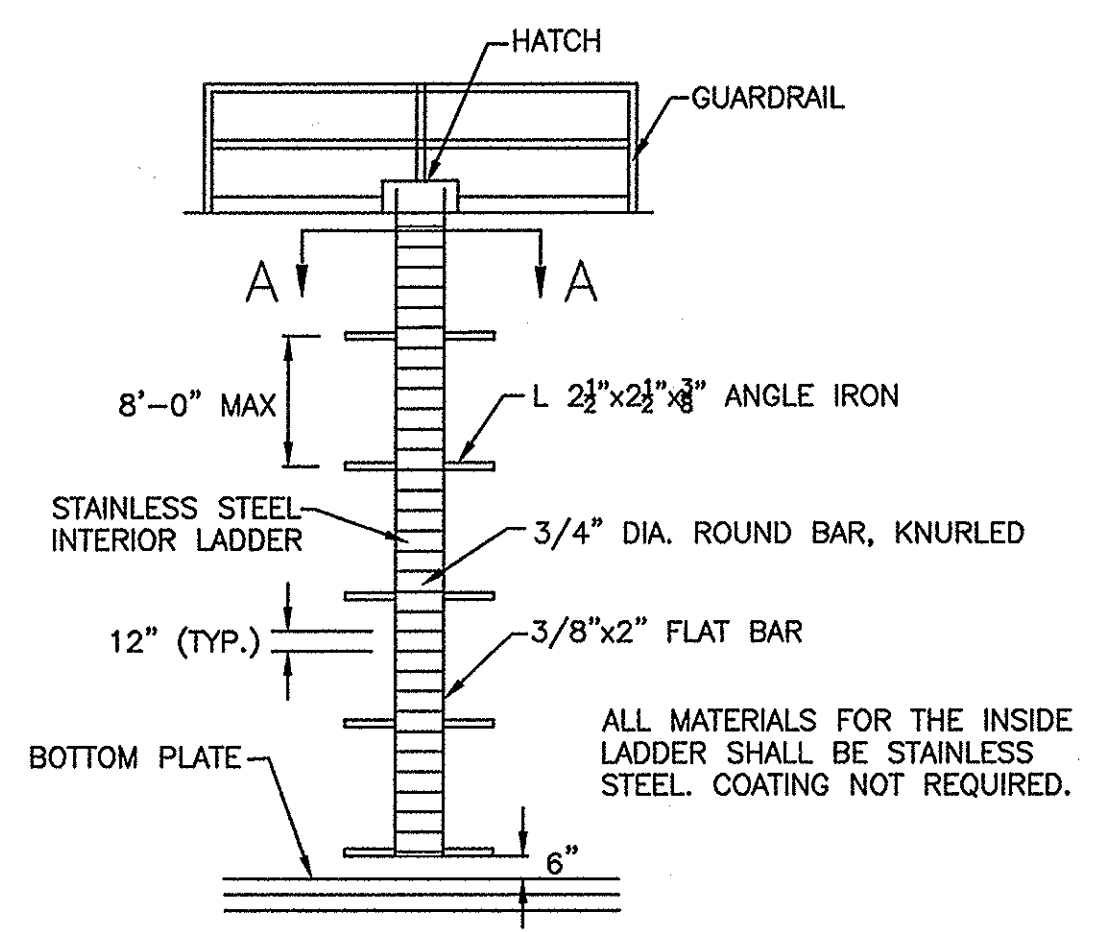
ELEVATION VIEW SCALE: NONE
SECTION SCALE: NONE



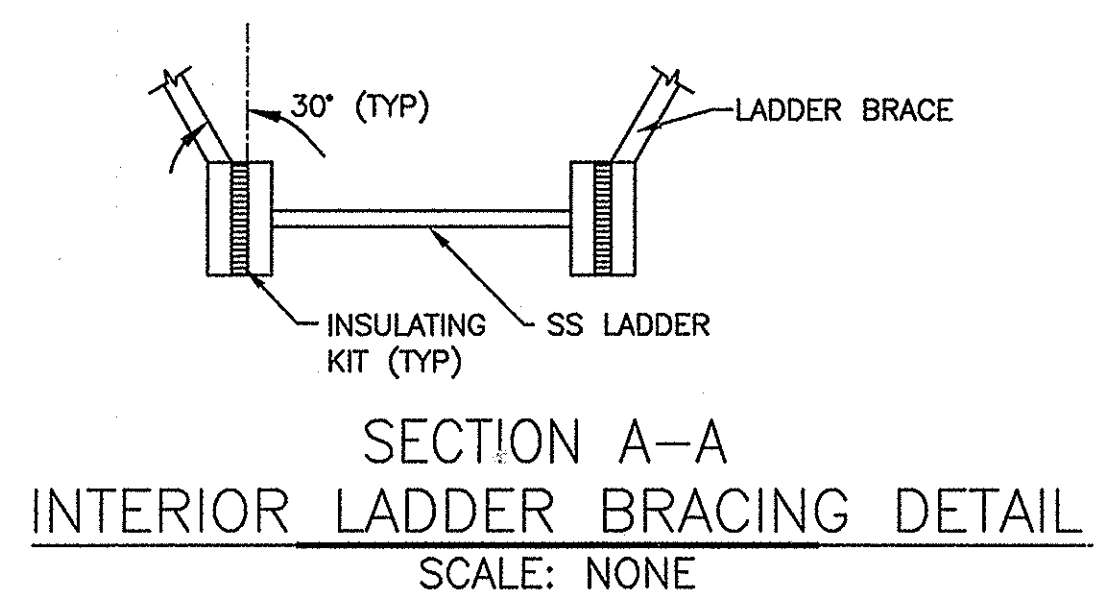
LADDER PLAN VIEW WITH PHANTOM VIEW
SCALE: NONE



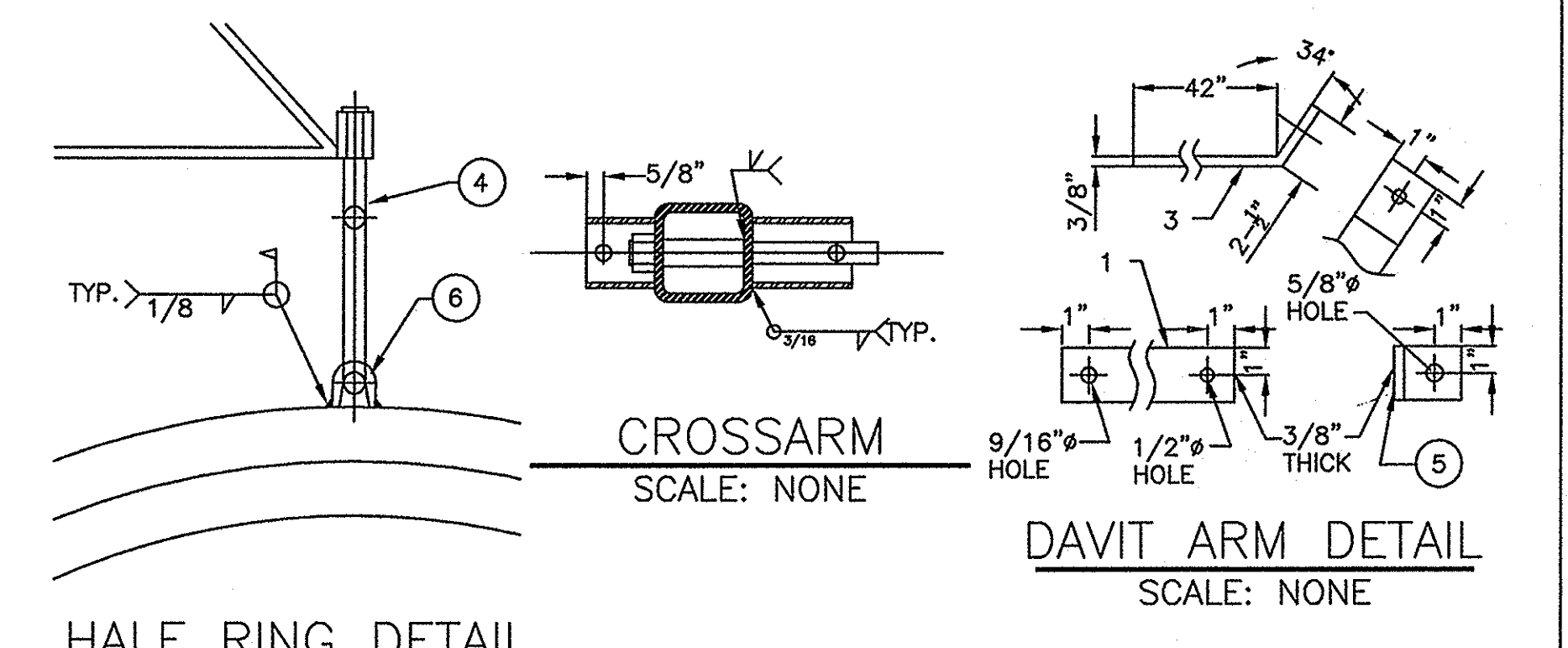
LADDER ISOMETRIC FORMING DETAIL
SCALE: NONE



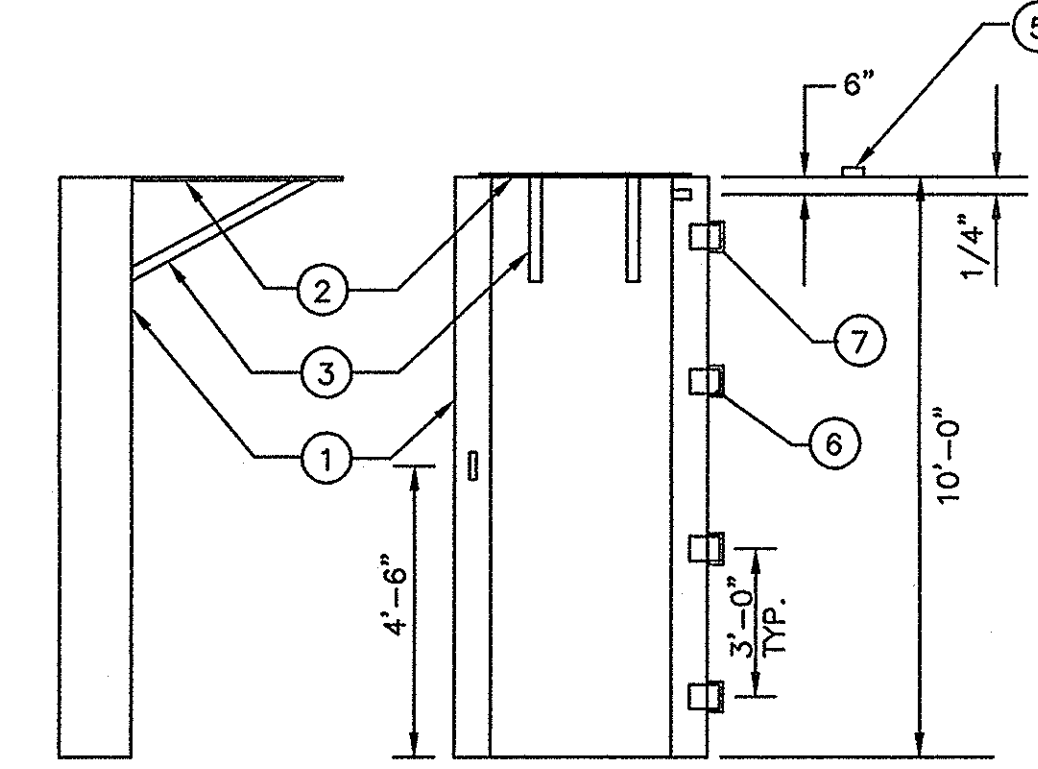
3 INTERIOR LADDER DETAIL
SCALE: NONE



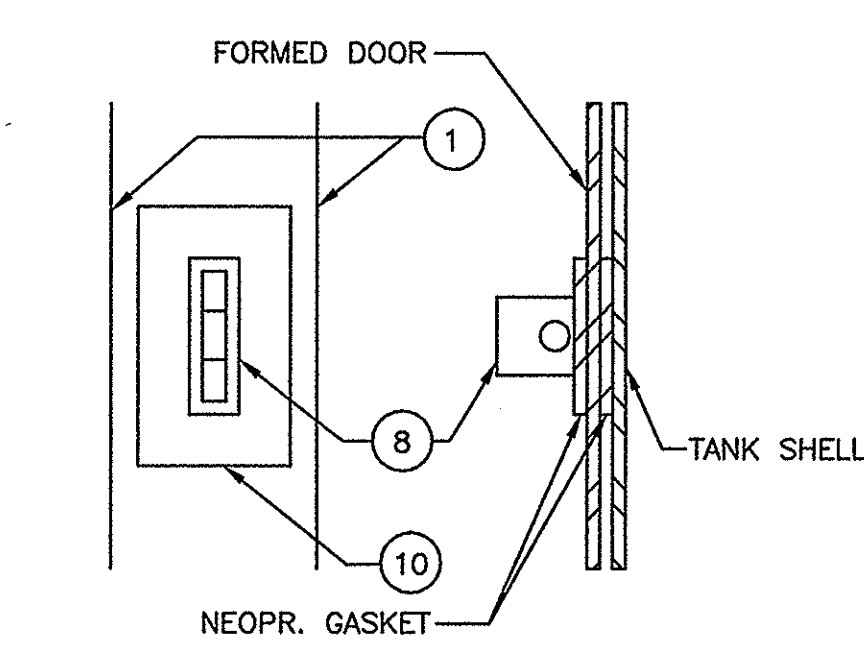
SECTION A-A INTERIOR LADDER BRACING DETAIL
SCALE: NONE



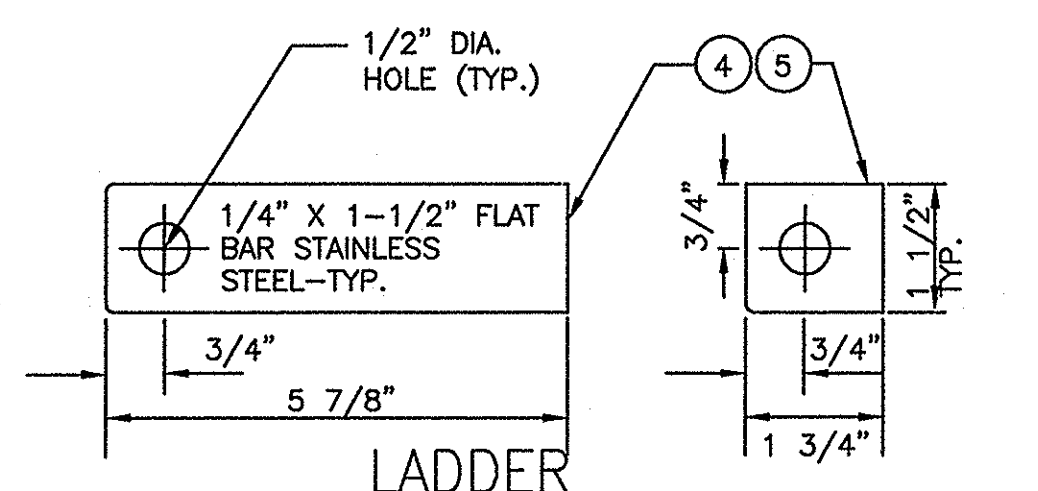
CROSSARM SCALE: NONE
DAVIT ARM DETAIL SCALE: NONE



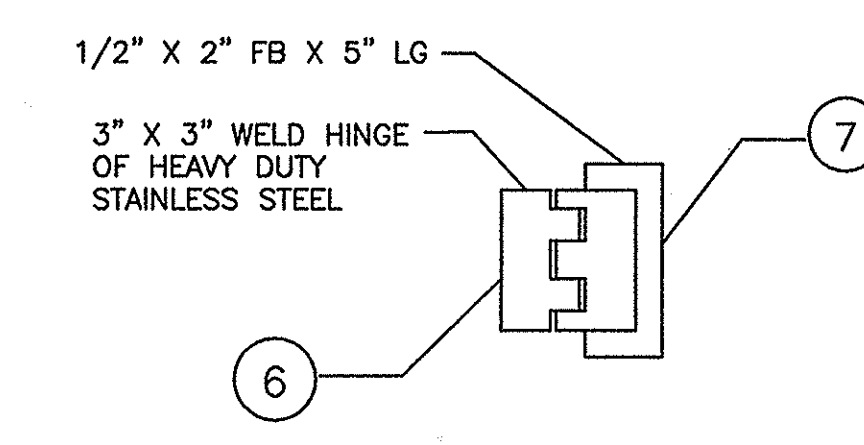
LADDER TYPICAL INSTALLATION DETAILS
SCALE: NONE



LADDER DOOR LOCKING HASP DETAIL
SCALE: NONE



LADDER HASP ASSEMBLY DETAIL
SCALE: NONE



LADDER HINGE DETAIL
SCALE: NONE

EXTERIOR LADDER: MATERIAL LIST

ITEM	DESCRIPTION	MATL.	REQ'D
1	3/16" PLATE X 4'-6 1/2" X 7'-0" LG. FORMED AS SHOWN	A36	1
2	3/16" PLATE X 27 1/2" X 28 1/4" LG. CUT TO MATCH BOTTOM HOOP	A36	1
3	1 1/8" O.D. THIN WALL TUBING X 21 1/8" LG. CUT END @ 30° & 60°	A120	2
4	1/4" X 1 1/2" FB X 5 7/8" LG. W/ HOLE AS SHOWN	SS304	1
5	1/4" X 1 1/2" FB X 1 3/4" LG. W/ HOLE AS SHOWN	SS304	1
6	3" X 3" HEAVY DUTY BLANK WELD HINGE	SS18-8	2
7	1/2" X 2" FB X 5" LG.	SS304	3
8	3/8" X 1 1/2" FB X 2" LG. W/ 1/2" DIA. HOLE @ CENTER	SS304	2
9	1/4" X 3" GASKET X 4" LG.	NEOPR.	2
10	1/4" X 3" GASKET X 4" LG. W/ 1/2" X 1 3/4" SLOT	NEOPR.	2
11	3M CONTACT CEMENT	MANUF.	A.R.

MANWAY: MATERIAL LIST (NUMBER REQUIRED IS PER MANWAY)

ITEM	DESCRIPTION	MATL.	REQ'D
1	DAVIT ARM	SS304	1
2	HEAVY HEX NUT AND WASHER	SIBRNZ	1
3	DAVIT ARM SUPPORT	SS304	1
4	COVER PLATE SUPPORT, EYE BOLT	SS18-8	1
5	TANK MOUNT CLIP, ANGLE	SS304	2
6	HALF RING	SS18-8	1
7	30" I.D. MANWAY PENETRATION RING	A36	1
8	DISHED COVER PLATE	A36	1
9	CLOSURE BOLT	SS18-8	1
10	MANWAY CROSSARM	A500	1
11	VANDAL-PROOFING TUBE	A36	1
12	CROSSARM SLEEVE	SS304	1
13	MANWAY CROSSARM, TUBE	A36	1
14	1/2" BOLT	SS304	2
15	INSULATION KIT	NYLON	2
16	CROSSARM END	A36	2
17	C RING GASKET	EPDM	1

ISSUE FOR CONSTRUCTION

W:\Pasadena Sector\Projects\BCVWD\Vineland\TankIII\CAD\DWG\C-07.dwg Apr. 25, 2006 11:13am

Job No.	723185-10010	
Designed	SG	
Drawn	JV	
Checked	SG	
Approved	JCR	
Reg. No.		
Date		
Rev	Date	Description

Benchmark	SEE DWG G-1
Scale	NONE
By	

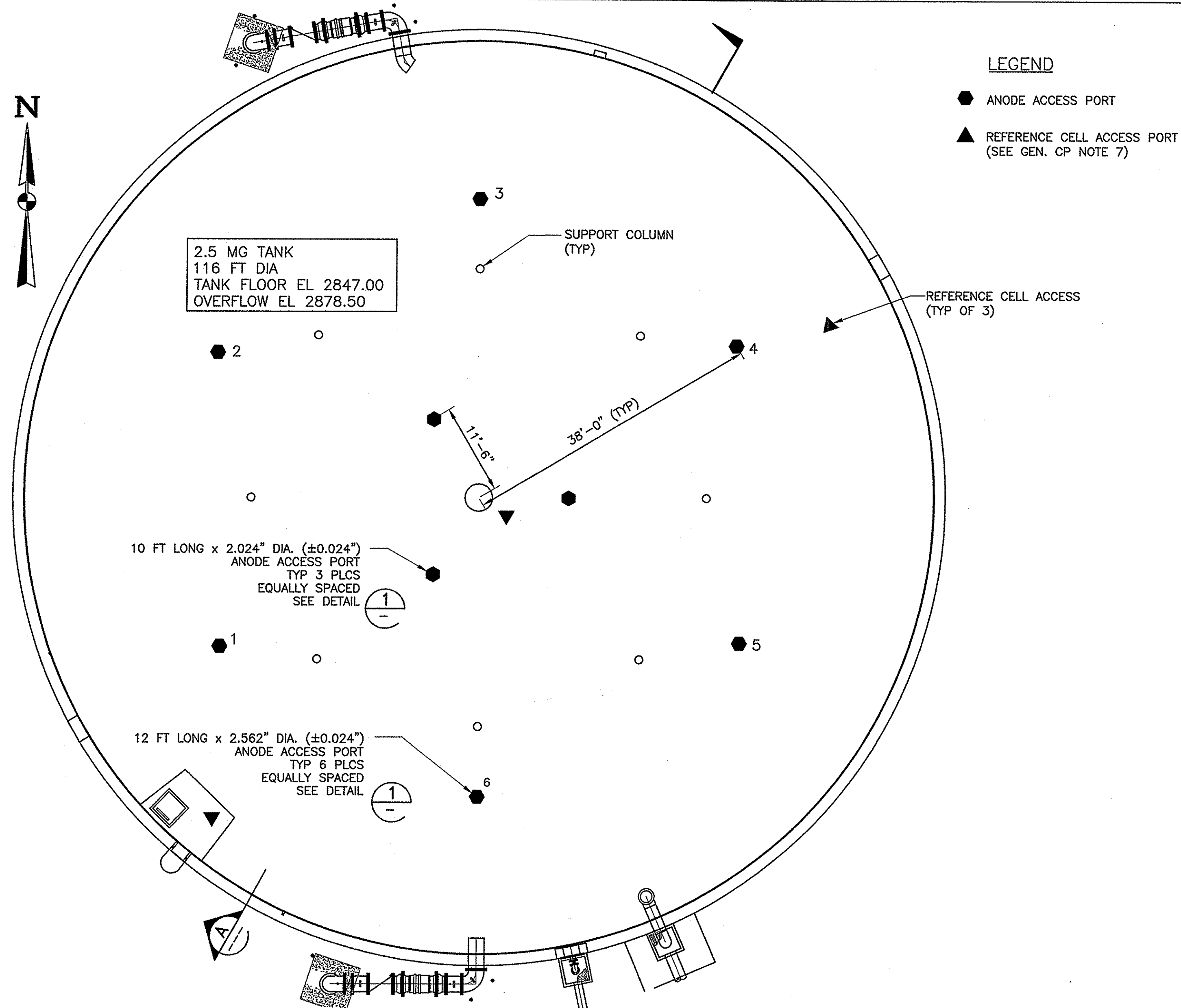
BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

J. J. [Signature]
District Engineer

Date: *4/26/06*
R.C.E. No. 18034

2.5 MG VINELAND TANK III
MISCELLANEOUS DETAILS

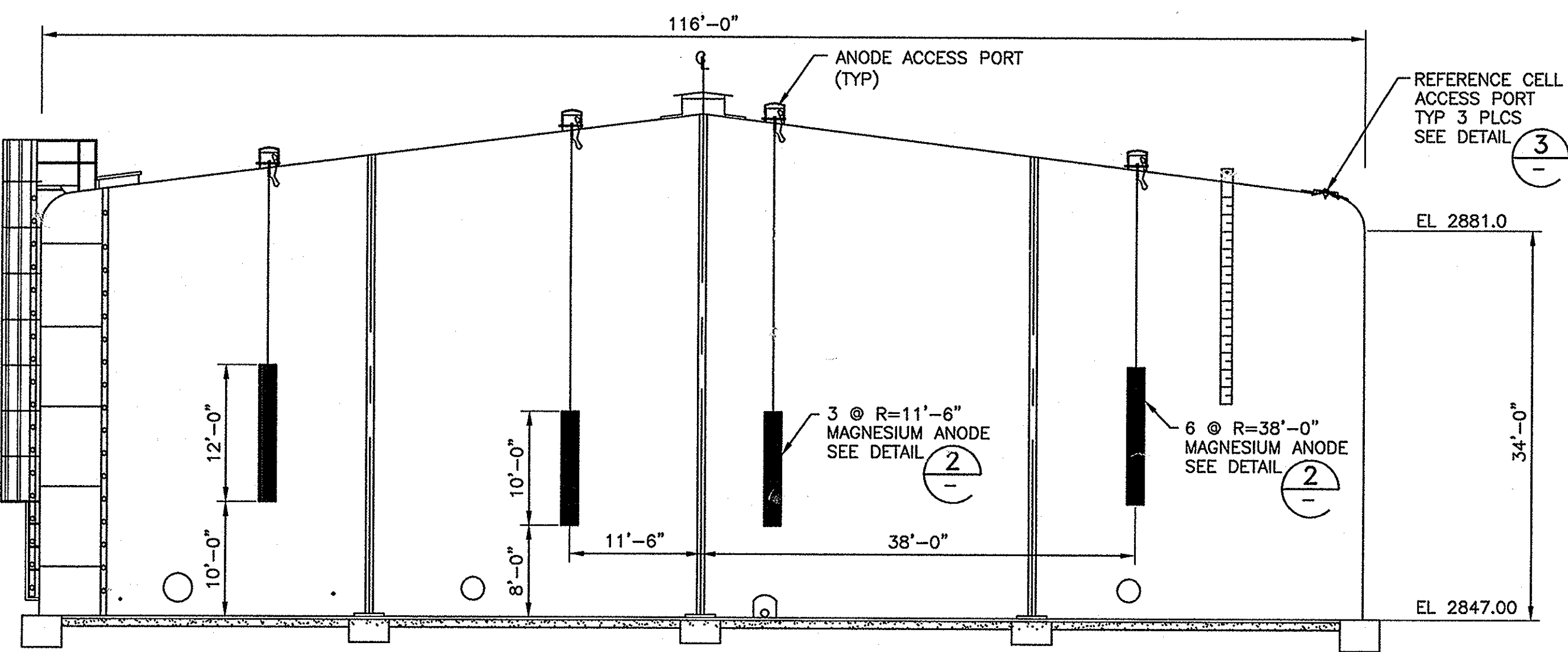
Drawing No. C-7
SHEET 9 OF 12



LEGEND

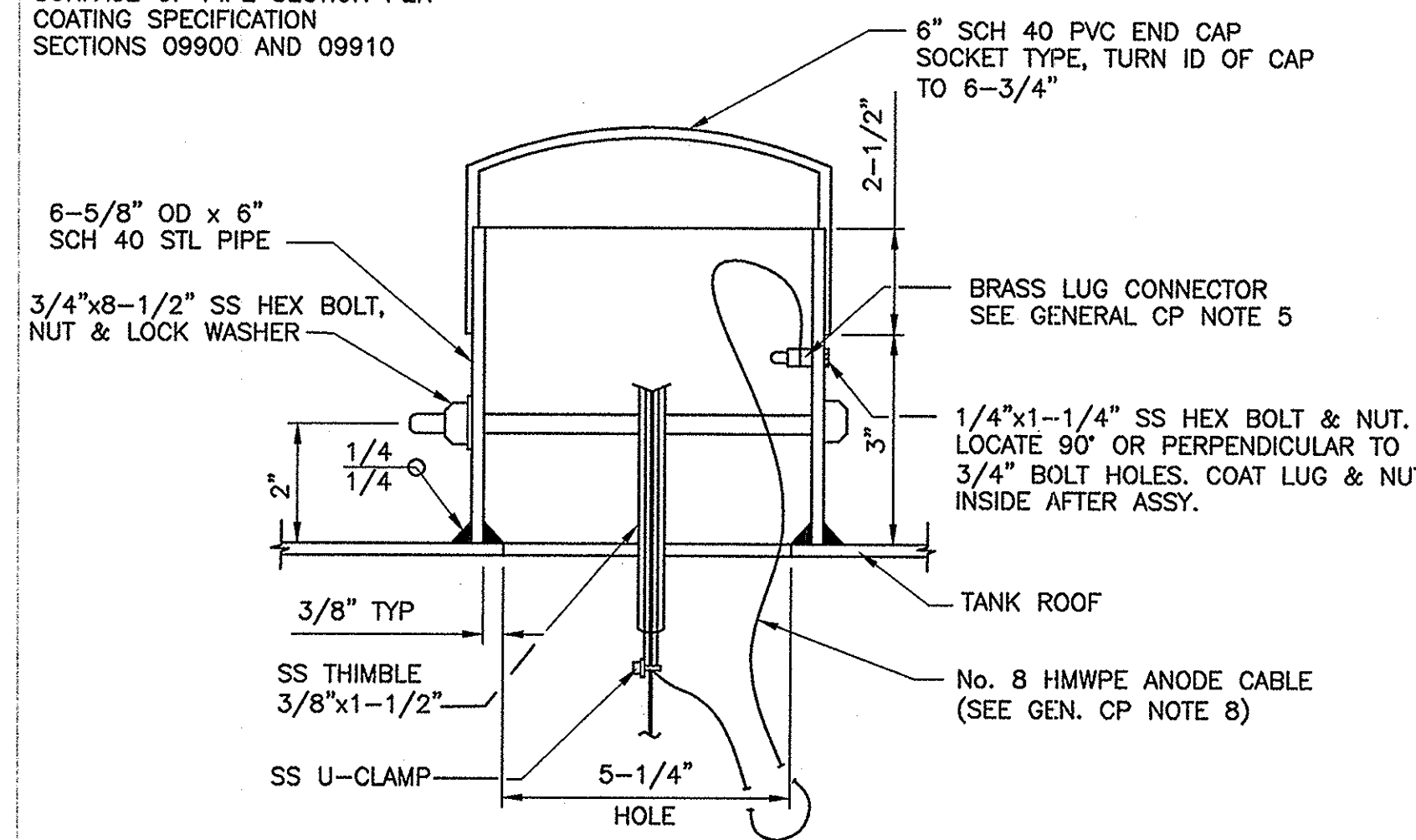
- ANODE ACCESS PORT
- ▲ REFERENCE CELL ACCESS PORT (SEE GEN. CP NOTE 7)

TANK PIPING PLAN
1" = 10'

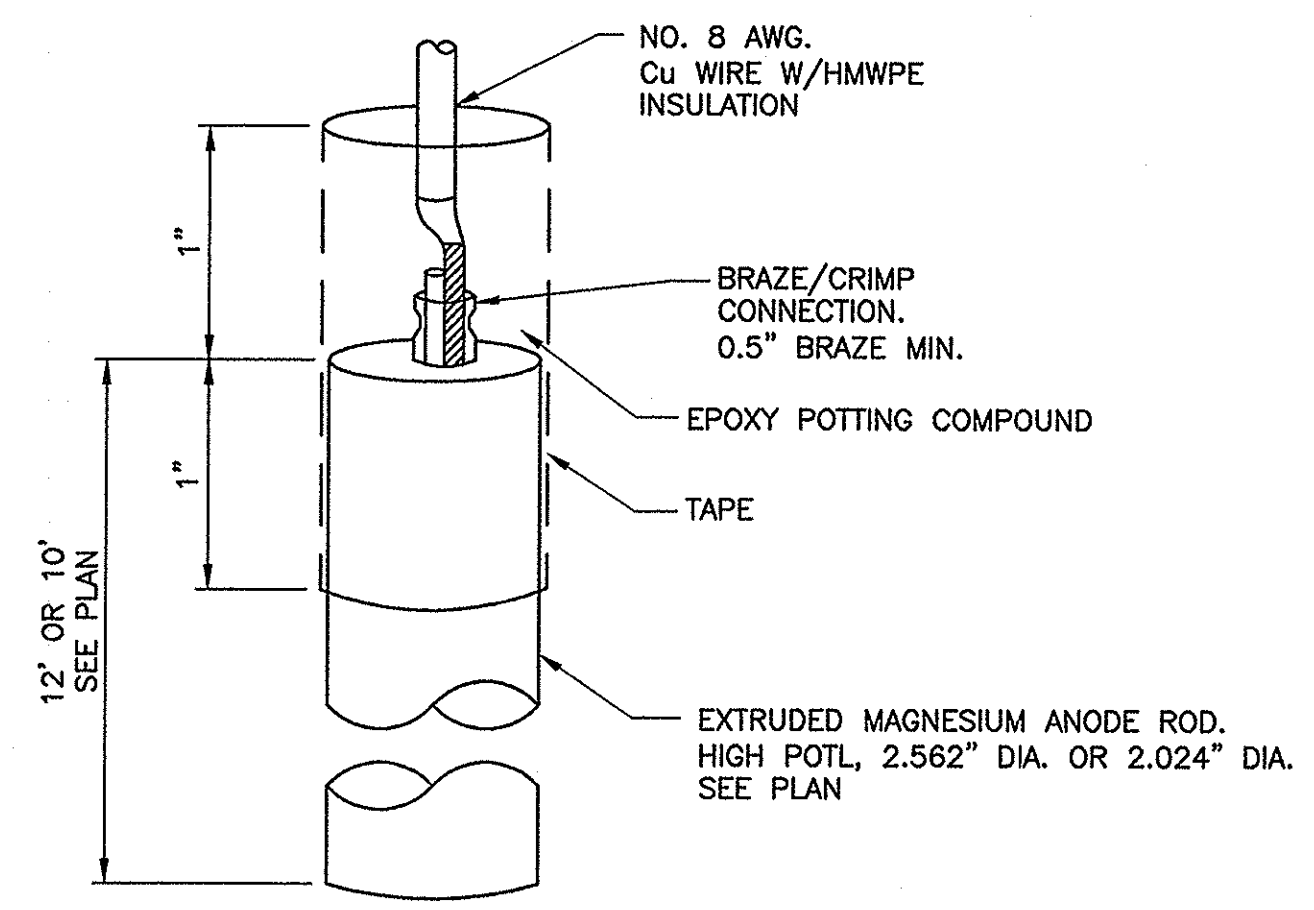


A SECTION
SCALE: 1" = 10'

NOTE:
COAT INTERIOR AND EXTERIOR SURFACE OF PIPE SECTION PER COATING SPECIFICATION SECTIONS 09900 AND 09910



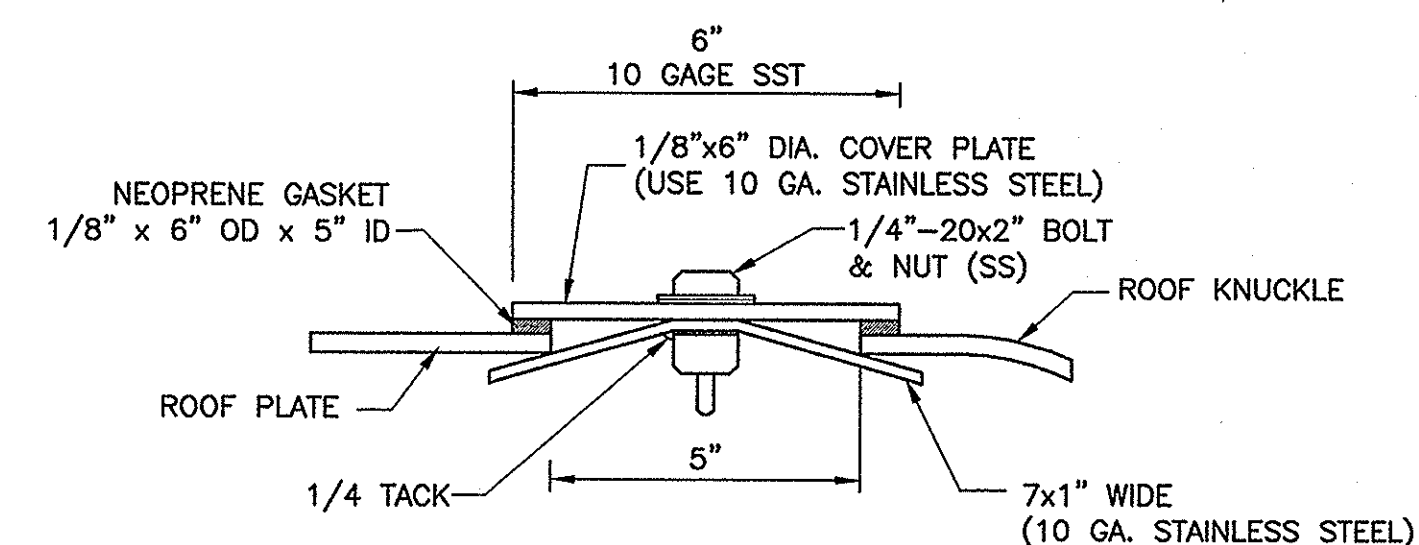
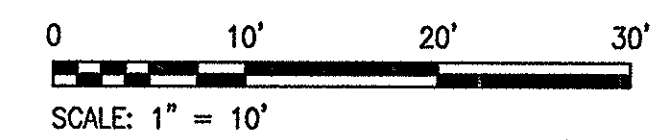
1 ANODE ACCESS PORT
SCALE: NONE



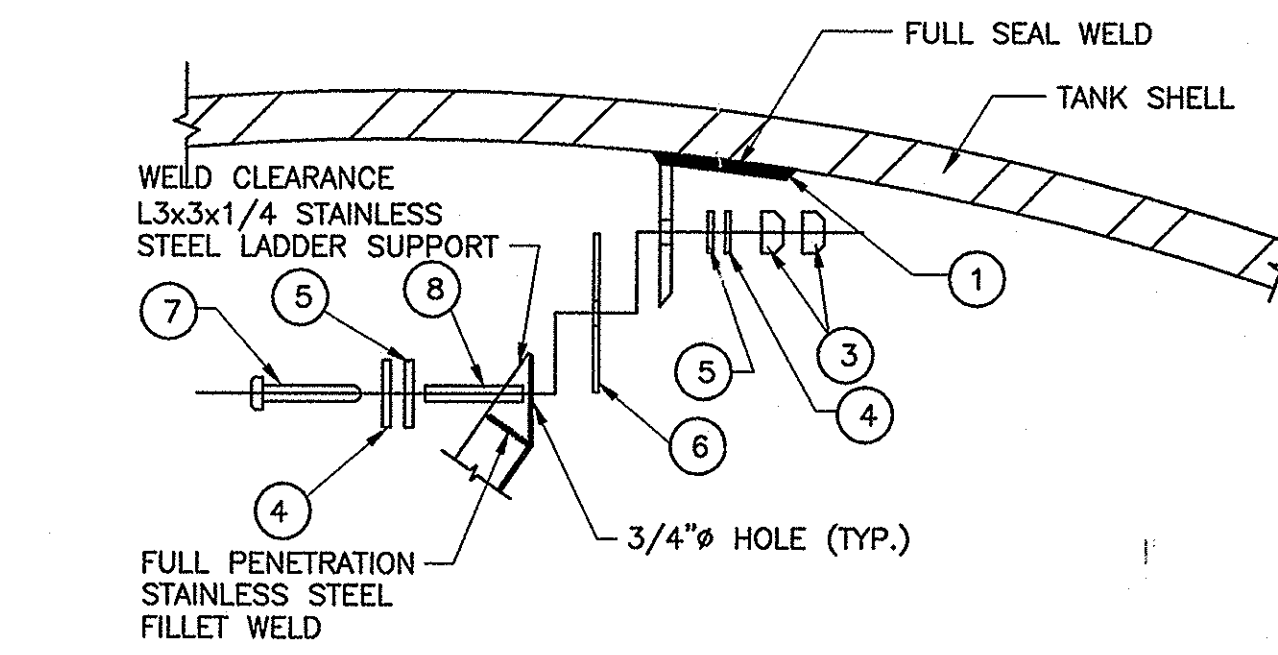
2 MAGNESIUM ANODE
SCALE: NONE

GENERAL CATHODIC PROTECTION NOTES

1. ALL MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND TECHNICAL SPECIFICATIONS SECTION 15980.
2. UNLESS OTHERWISE NOTED, DRAWINGS ARE NOT SHOWN TO SCALE.
3. LOCATION OF ANODE AND PORTABLE REFERENCE CELL ACCESS PORTS SHALL BE ADJUSTED AS NECESSARY TO AVOID CUTTING THROUGH ROOF SUPPORTS, RAFTERS OR BEAMS.
4. ALL DRILLING, CUTTING & WELDING ON THE TANK SHALL BE DONE BEFORE THE TANK IS COATED. 6" STL PIPE ANODE ACCESS PORT RISERS AND REF. CELL ACCESS PORTS SHALL BE FULLY COATED INSIDE AND OUT.
5. CONTRACTOR SHALL NOT CONNECT MAGNESIUM ANODES TO TANK UNTIL AFTER THE 11 MONTH WARRANTY INSPECTION AND AFTER COATING REPAIRS ARE MADE.
6. CONTRACTOR SHALL DOCUMENT ALL CHANGES FROM THESE DRAWINGS AND SUBMIT "AS-BUILT" DRAWINGS PER SPECIFICATIONS.
7. REFERENCE CELL PORTS ARE FOR PORTABLE REF. CELLS.
8. PROVIDE APPROX. 3 FEET OF SLACK ANODE LEAD WIRE SO THAT WIRE CAN EASILY BE PULLED OUT OF PORT AND CURRENT MEASURED WITH A CLAMP-ON METER.



3 REFERENCE CELL ACCESS PORT
SCALE: NONE



4 LADDER INSULATION
SCALE: NONE

ANODE CHEMICAL COMPOSITION % BY WEIGHT

Al	0.01 MAX
Mn	0.50-1.3
Zn	-
Si	-
Cu	0.02 MAX
Ni	0.001 MAX
Fe	0.03 MAX
OTHER, EACH	0.05
TOTAL IMPURITIES	0.30
Mg	BALANCE

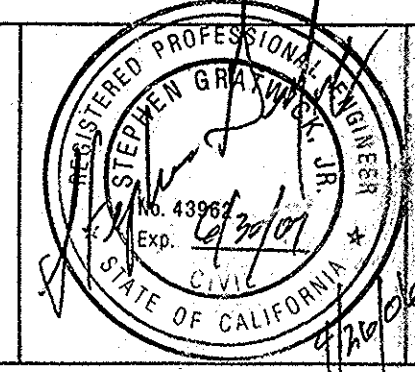
MATERIAL LIST

ITEM	DESCRIPTION	QTY*
1	L3x3x3/8 C.S.	10
2	L4x4x3/8 C.S.	2
3	DBL. STAINLESS STL. NUT	24
4	STAINLESS STL. WASHER	24
5	1/8" THK. NEMA G-10 WASHER	24
6	1/8" THK. NEMA G-10 LAMINATED GLASS SHEET	12
7	5/8" DIA. x 2" LG. COARSE THREAD. STAINLESS STL. BOLT	12
8	5/8" I.D. x 1/32" THK. x 1-1/4" LG. NEMA G-10 INSULATING SLEEVE	12

* TO BE CONFIRMED AND MODIFIED BY TANK FABRICATOR

ISSUE FOR CONSTRUCTION

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA 91124
(626) 440-4000

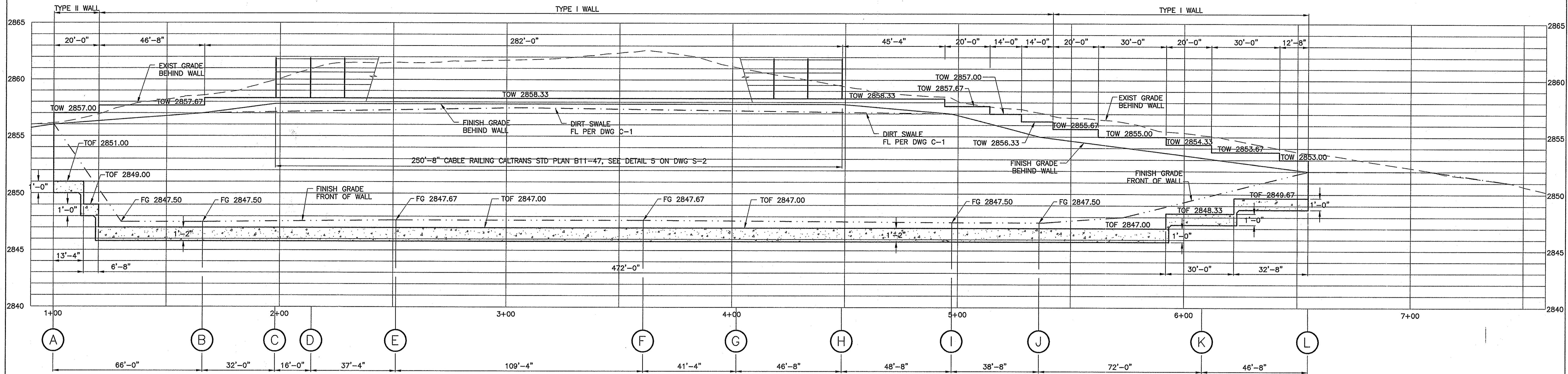


Job No.	723185-10010		
Designed	G.F.		
Drawn	J.V.		
Checked	G.F.		
Approved	JCR		
Reg. No.			
Date			
Rev	Date	Description	By

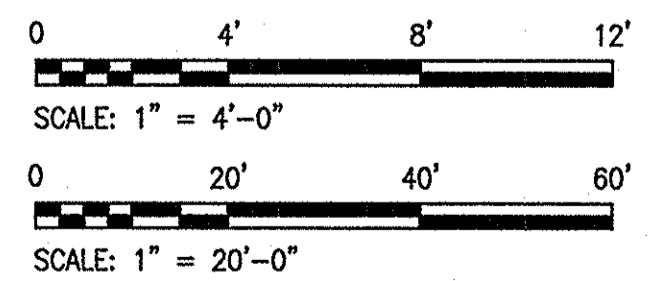
Benchmark	SEE DWG G-1
Scale	AS SHOWN

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA
JCR Rankin
District Engineer
R.C.E. No. 18034
Date 4/26/06

2.5 MG VINELAND TANK III
CATHODIC PROTECTION
PLAN / ELEVATION AND DETAILS
Drawing No. C-8
SHEET 10 OF 12

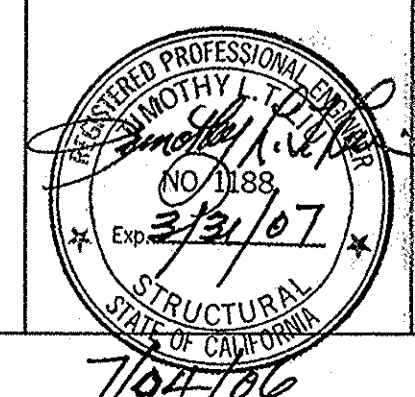


RETAINING WALL PROFILE
 HORZ: 1" = 20'
 VERT: 1" = 4'



ISSUE FOR CONSTRUCTION

PARSONS
 100 WEST WALNUT STREET
 PASADENA, CALIFORNIA 91124
 (626) 440-4000



Job No.	723185-10010
Designed	TL
Drawn	JV
Checked	TL
Approved	JCR
Reg. No.	
Date	

Rev	Date	Description	By

Benchmark
SEE DWG G-1

Scale
AS SHOWN

BEAUMONT CHERRY VALLEY WATER DISTRICT
 RIVERSIDE COUNTY, CALIFORNIA

[Signature]
District Engineer

R.C.E. No. 18034

[Signature]
Date

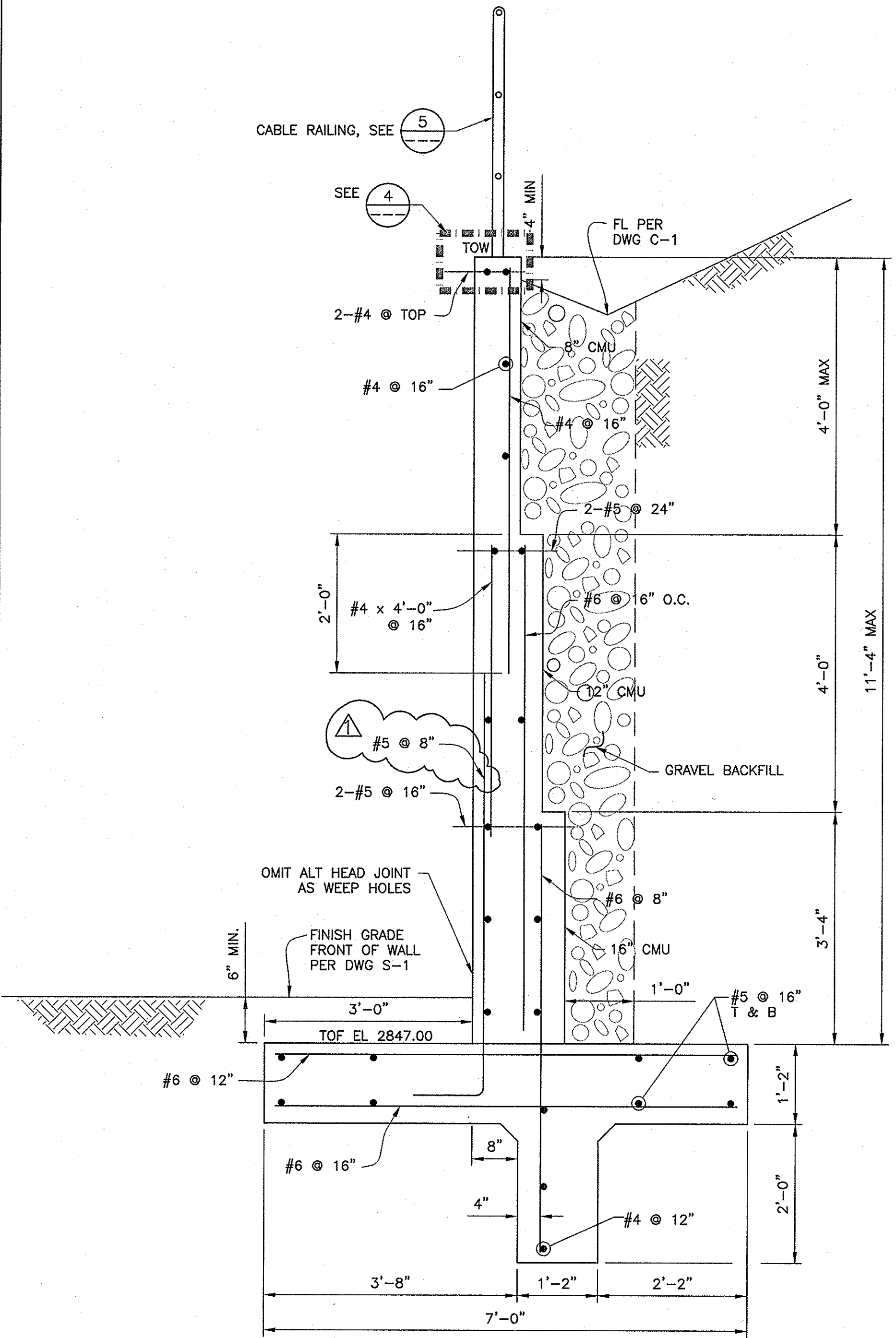
Drawing No.
S-1

2.5 MG VINELAND TANK III

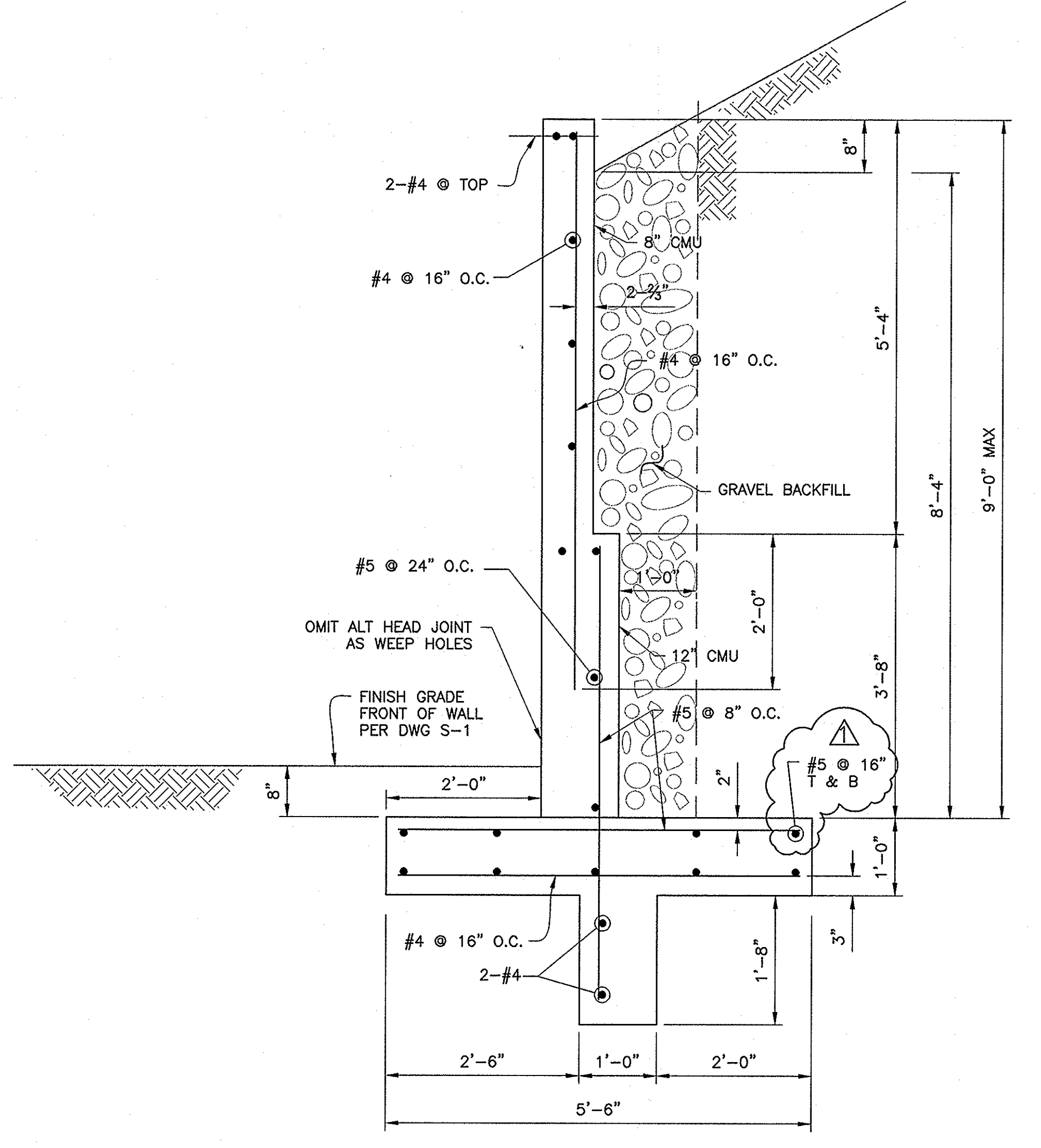
RETAINING WALL PROFILE

SHEET 11 OF 12

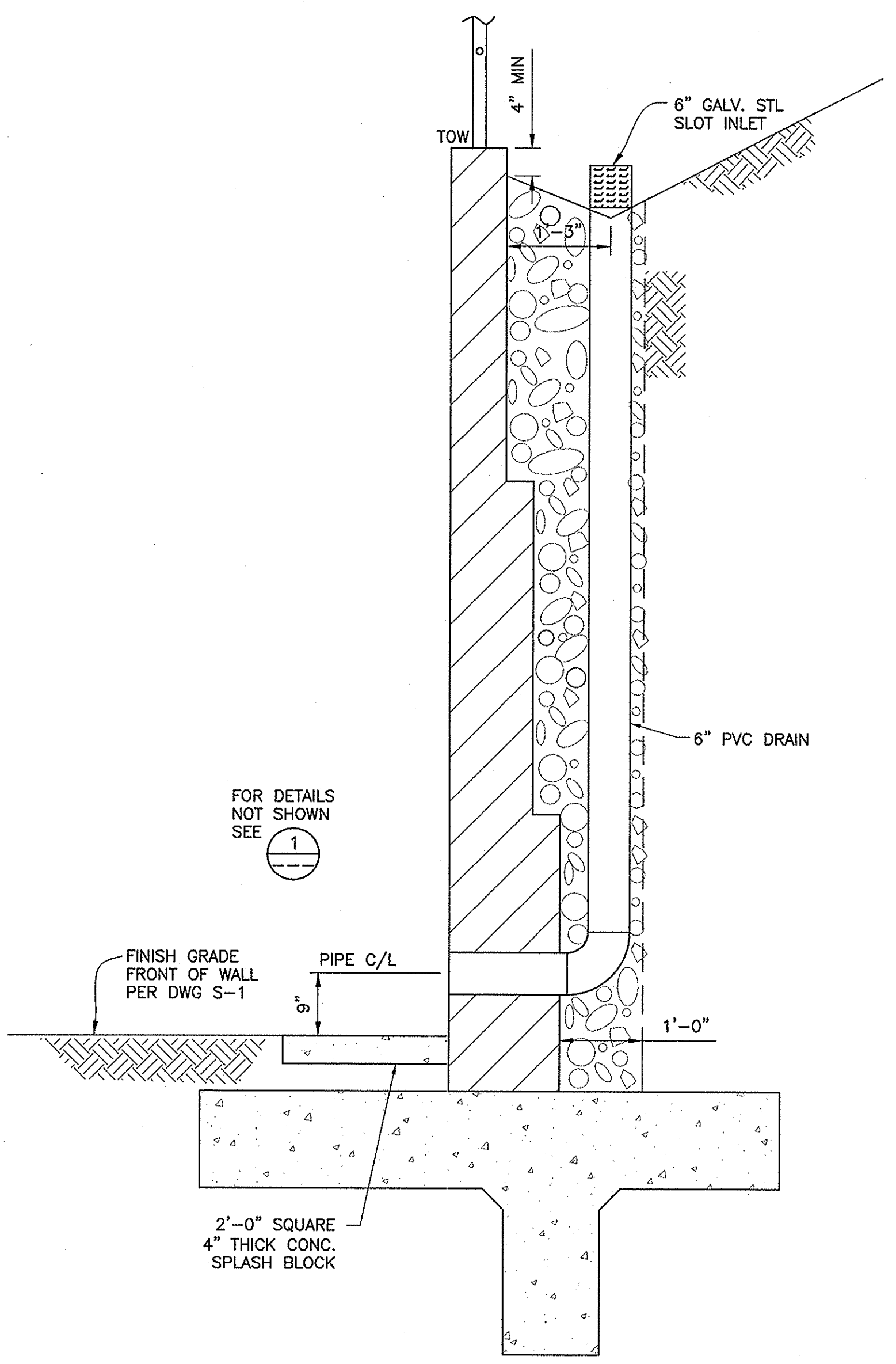
WA:Pasadena_Sector\Projects\BOW\DWG\VinelandTankIII\CAD\DWG\S-01.dwg Apr 25, 2008 - 11:24am



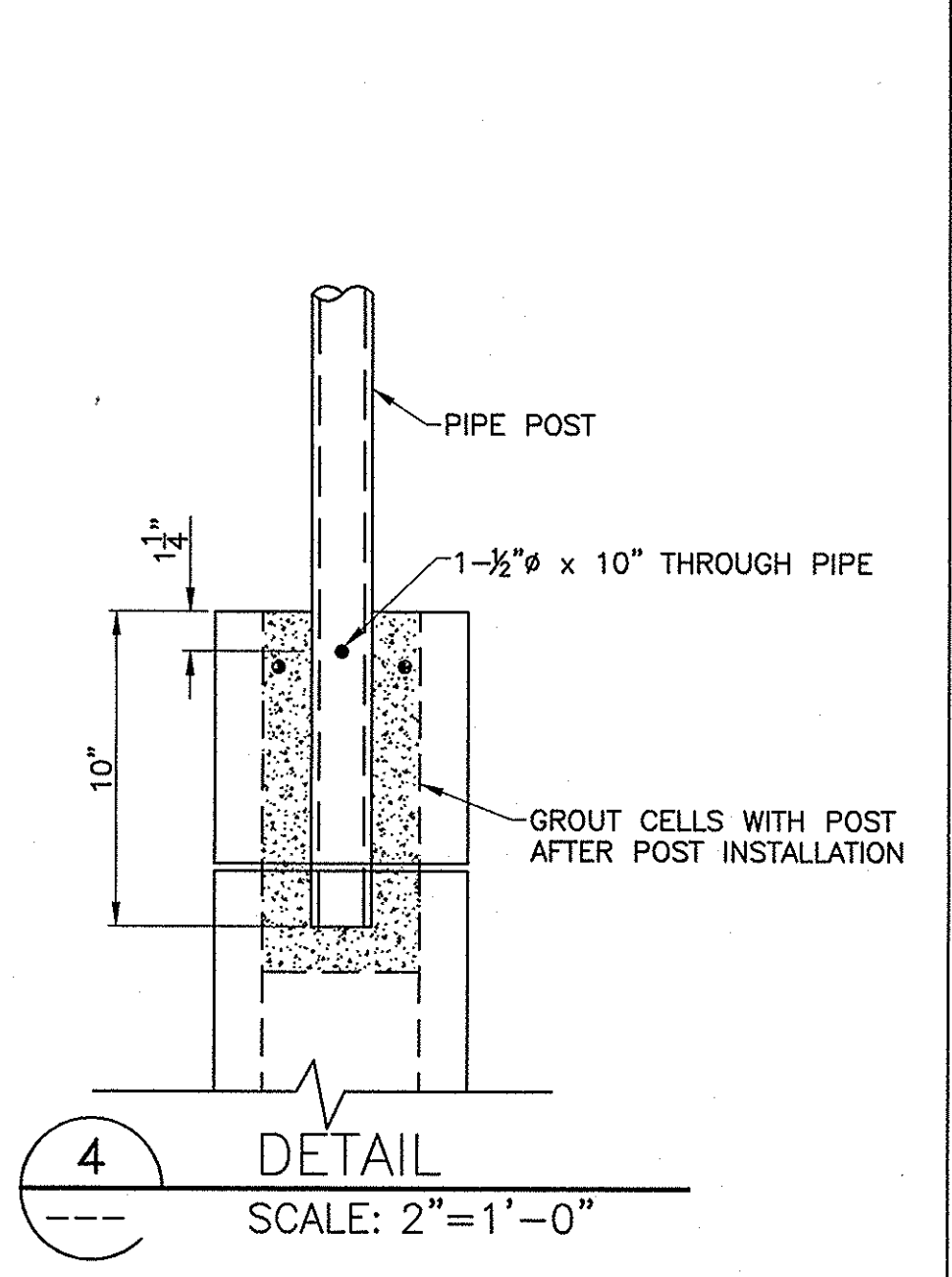
1 RETAINING WALL TYPE I
SCALE: 3/4"=1'-0"



2 RETAINING WALL TYPE II
SCALE: 3/4"=1'-0"



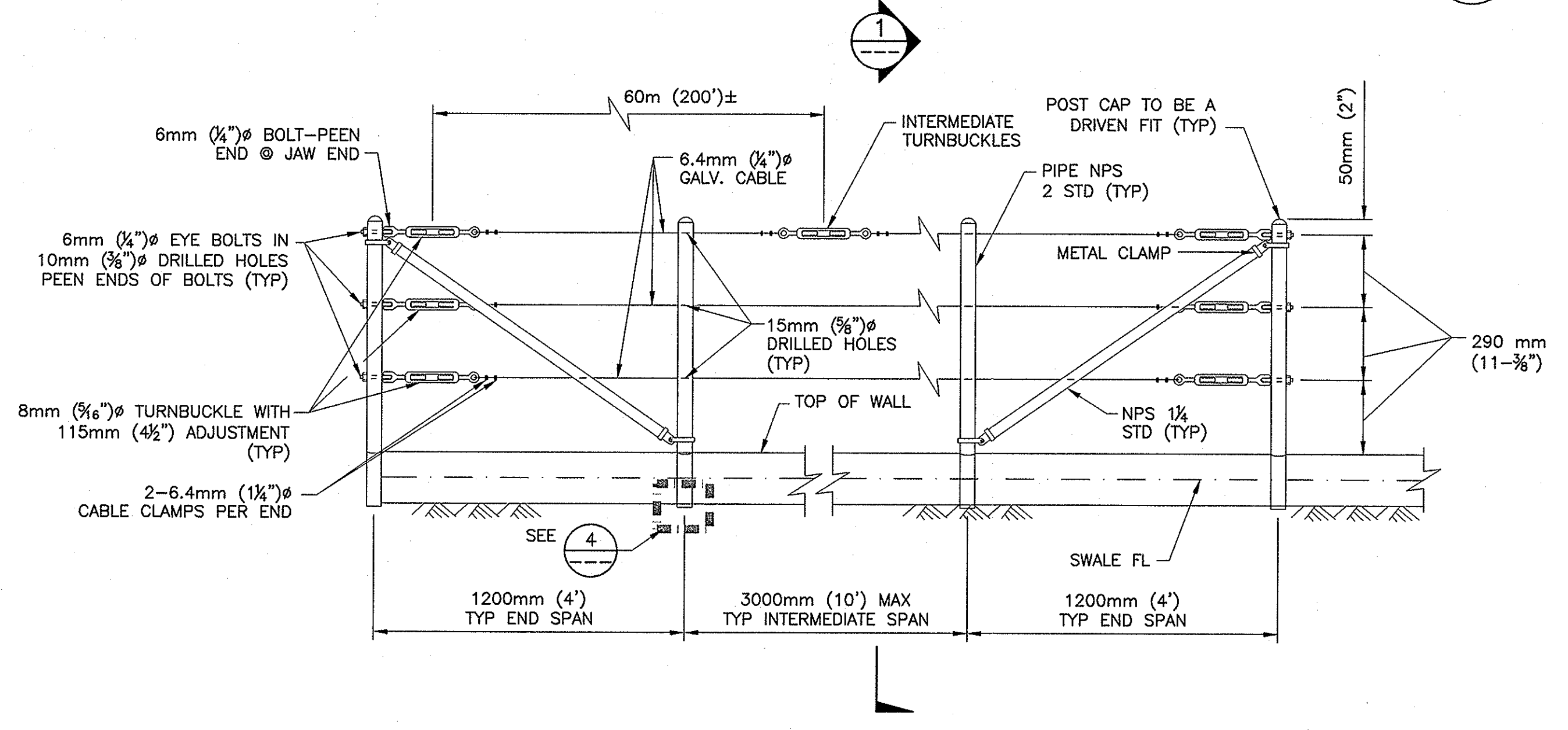
3 DRAIN PIPE
SCALE: 3/4"=1'-0"



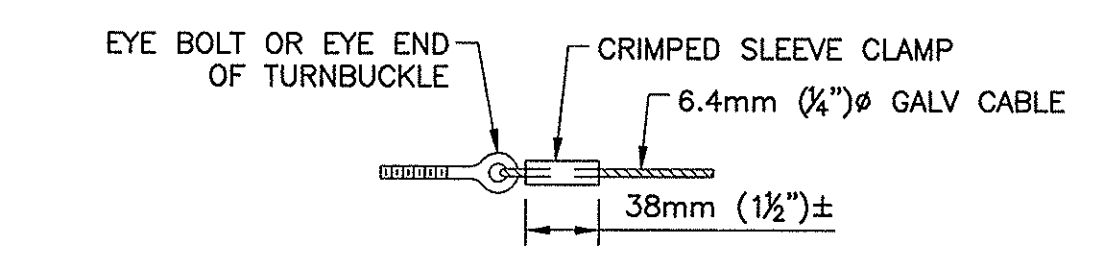
4 DETAIL
SCALE: 2"=1'-0"

CABLE RAILING NOTES:

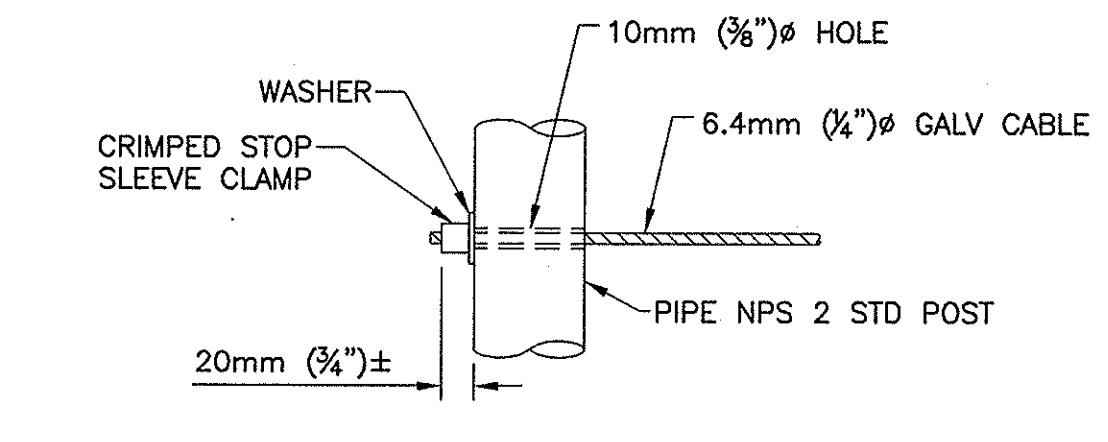
1. MAXIMUM DISTANCE BETWEEN TURNBUCKLES SHALL BE 60m (200')±
2. INTERMEDIATE TURNBUCKLES TO BE PLACED IN ADJACENT SPANS
3. CABLE SHALL NOT BE SPLICED BETWEEN INTERMEDIATE TURNBUCKLES AND END POSTS.
4. ALL POSTS, CABLE AND HARDWARE TO BE GALVANIZED.
5. POSTS TO BE VERTICAL.
6. ALIGNMENT OF HOLES IN POSTS MAY VARY TO CONFORM TO SLOPE OF TOP OF RETAINING WALL.
7. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIALS.
8. ALTERNATIVE DETAILS MAY BE SUBMITTED BY THE CONTRACTOR FOR APPROVED BY THE ENGINEER.
9. LINE POSTS SHALL BE BRACED HORIZONTALLY AND TRUSSED DIGAGONALLY IN BOTH DIRECTIONS OF INTERVALS NOT TO EXCEED 300m (1000')
10. POST POCKETS TO BE CENTERED IN TOP OF WALL.
11. TYPICAL END SPANS, BRACED IN BOTH DIRECTIONS, SHALL BE CONSTRUCTED AT CHANGES IN LINE WHERE THE ANGLE OF DEFLECTION IS 15° OR MORE.
12. PROVIDE THIMBLES AT ALL CABLE LOOPS.



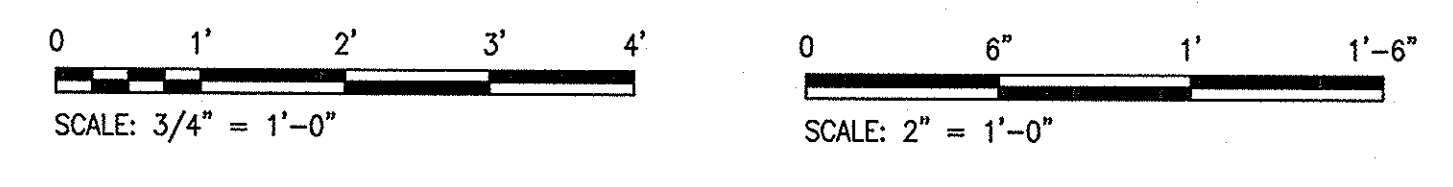
5 CABLE RAILING, CALTRANS 2002 DUAL UNITS STD PLAN B11-47
SCALE: NONE



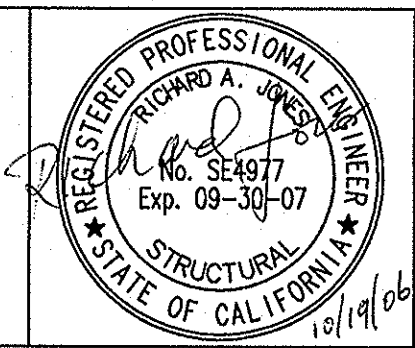
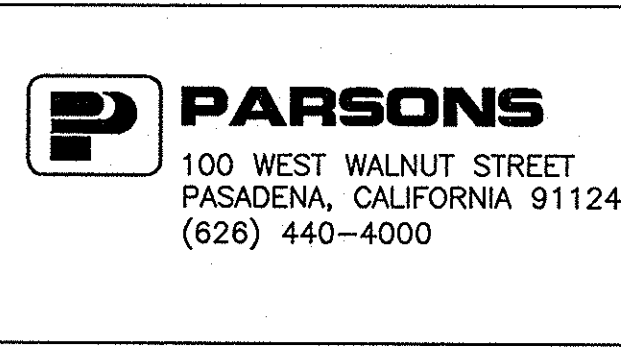
6 ALTERNATIVE CABLE CONNECTION
SCALE: NONE



7 ALTERNATIVE DEAD END ANCHORAGE
SCALE: NONE



ISSUED FOR CONSTRUCTION



Job No.	723185-10010	Designed	TL
Drawn	JV	Checked	TL
Approved	JCR	Reg. No.	
Date	10/2006	Rev	

Benchmark	SEE DWG G-1
Scale	AS SHOWN

BEAUMONT CHERRY VALLEY WATER DISTRICT
RIVERSIDE COUNTY, CALIFORNIA

J. Jarama
District Engineer

R.C.E. No. 18034

2.5 MG VINELAND TANK III	Drawing No. S-2
RETAINING WALL DETAILS	SHEET 12 OF 12

SAMPLE PROJECT 3:

WATER PIPELINE REPLACEMENT PROJECT – 5TH STREET FROM CALIFORNIA AVENUE TO MICHIGAN AVENUE, AND MICHIGAN AVENUE FROM 5TH STREET TO 6TH STREET

The District is currently in the preliminary design process of a pipeline replacement project, which includes the replacement of approximately 530 LF of 6” steel waterline with 8” ductile iron pipe (DIP) in Michigan Avenue from 5th Street to 6th street, and the replacement of approximately 3,900 LF of 10” steel waterline with 12” DIP in 5th Street from California Avenue to Michigan Avenue.

The District will require a topographical site survey along each of the alignments, including existing utility appurtenances, all streets, curb and gutter, property lines, and right of way. Please see the attached planning-level exhibits for reference.

5th Street Pipeline Replacement Project Location Map



Michigan Avenue Pipeline Replacement Project (P-2750-0092) Location Map

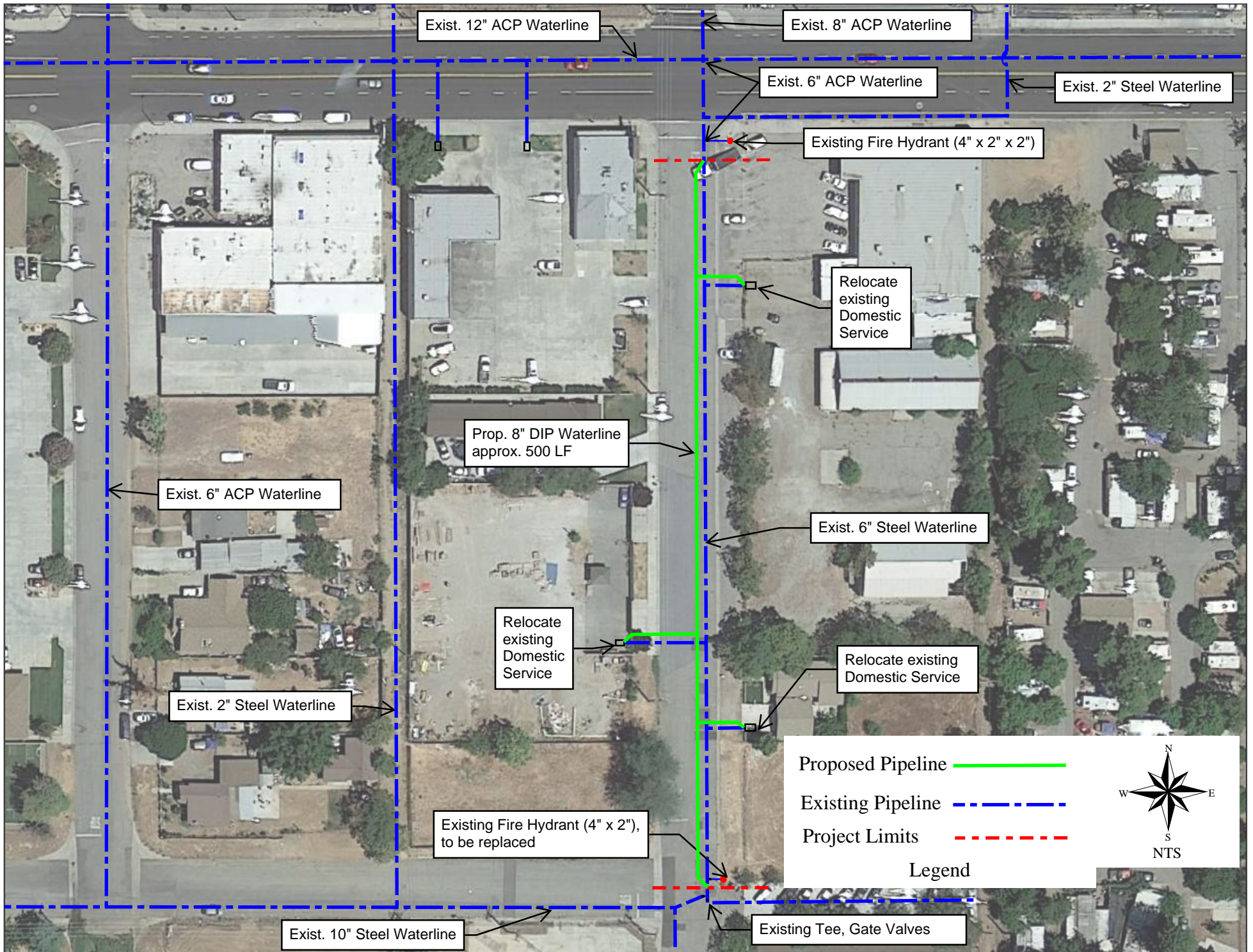


EXHIBIT F: SAMPLE AGREEMENT

BEAUMONT-CHERRY VALLEY WATER DISTRICT PROFESSIONAL SERVICES AGREEMENT

THIS AGREEMENT, made and entered into the ____ day of _____, _____, by and between the **BEAUMONT-CHERRY VALLEY WATER DISTRICT**, whose address is 560 Magnolia Avenue, Beaumont, CA 92223, ("District"), and «**CoName2**», whose address is «**CoAddress3**» ("Consultant").

RECITALS

WHEREAS, District desires to engage the services of Consultant to provide On Call Land Surveying Services the two-year period, with a one-year optional extension, covered by this Agreement.

WHEREAS, Consultant agrees to provide such services pursuant to the terms and conditions of this Agreement and has represented to District that the Consultant possesses the necessary skills and qualifications to provide such services.

NOW, THEREFORE, in consideration of the foregoing recitals and the mutual covenants contained herein, District and Consultant agree as follows:

AGREEMENT

SECTION I: INCORPORATION OF RECITALS

The recitals and section titles set forth herein are incorporated herein and are an operative part of this Agreement.

SECTION II: EMPLOYMENT

District hereby contracts with Consultant to perform a variety of on call land surveying services, at and for the consideration hereinafter stipulated, and Consultant hereby accepts such contract under the hereinafter set forth terms and conditions. **Consultant understands that there is no guarantee of subsequent work assignments given or implied by entering into this Agreement.**

SECTION III: SERVICES TO BE PERFORMED

Consultant agrees to provide such miscellaneous on call land surveying services for District as assigned on an as needed basis. A Task Order will be issued for each individual project defining the scope of work to be performed, the time allotted for completion of the project and estimate of costs. All costs include labor, materials, equipment, travel time and mileage. Consultant shall advise the District as soon as reasonably practicable upon gaining knowledge of a condition, event or accumulation of events that may affect the scope and/or cost of services identified on each Task Order.

SECTION IV: TERM OF AGREEMENT

The term of this Agreement shall cover a three-year time period commencing on _____ and continuing until _____, with an optional one-year extension, solely at District discretion, unless extended or sooner terminated as provided for herein. In the event the time specified for completion of an assigned Task Order exceeds the term of this Agreement, the term of this Agreement shall be automatically extended for such additional time as is necessary to complete such Task Order and thereupon this Agreement shall terminate.

SECTION V: COMPENSATION

District shall pay Consultant on a time and expense basis in accordance with the Rate Schedule attached hereto as Exhibit A, and in accordance with the Task Order Proposal for each individual Task Order. Consultant shall not be compensated for any services, nor reimbursed for any expenses in excess of those authorized by this Agreement, or any Task Order without prior written approval by District.

If contingencies arise during the performance of a project, which requires services outside the scope of the project, District may authorize, in writing, the work to be performed. Payment for such approved contingencies will be made in accordance with the standard rate schedule (Exhibit A) or as agreed upon by the parties. Additional work performed without written authorization will not be approved for payment. All invoices, claims, and other communications dealing with compensation shall be addressed to:

Beaumont-Cherry Valley Water District
Attn: Finance Department
560 Magnolia Avenue
Beaumont, CA 92223

Invoices MUST identify the Task Order Number, Account Number, and Project Name. Any invoice received without proper identification will be returned to Consultant. Approved invoices will be paid within thirty (30) days after receipt.

SECTION VI: DATA AND SERVICES FURNISHED BY DISTRICT

District shall provide Consultant with all reasonably available information pertinent to the tasks to be performed by Consultant under each Task Order. It shall be the responsibility of Consultant to apply reasonable caution in the interpretation and use of District furnished data and promptly advise District of any errors.

District will work with and assist Consultant by providing or making available the following data and services:

- A. Designate a person to act as the liaison of District for work associated with each Task Order.
- B. Provide criteria and full information as to District's requirements for each Task Order.
- C. Provide District historical and technical data, as required.

SECTION VII: OBLIGATIONS OF CONSULTANT

Consultant agrees to perform services in accordance with the terms and conditions of this Agreement and each Task Order, and will supply all personnel, tools, equipment and materials required to perform the assigned services. Consultant shall be solely responsible in performing the services required, and shall comply with all local, state and federal laws.

SECTION VIII: PREVAILING WAGES

In accordance with State of California Labor Code, Article 2 (Wages) Section 1770, Consultant shall insure that prevailing wages are paid to all their employees working in the field of inspection, surveying and soils testing when done on or in the execution of a public works project. Certified payroll records must be submitted in accordance with Section F-46 of the District's General Conditions.

SECTION IX: STATUS OF CONSULTANT

Consultant shall perform the services provided for herein in Consultant's own way as an independent contractor and in pursuit of Consultant's independent calling, and not as an employee of District. Consultant shall be under the control of District only as to the result to be accomplished. Neither Consultant nor any of the Consultant's employees or agents shall have any claim under this Agreement or otherwise against District for vacation pay, paid sick leave,

retirement benefits, social security, workers' compensation, health, disability, or unemployment insurance benefits or other employee benefits of any kind. Consultant is liable for all applicable Social Security, Federal and State taxes required on payments made by District. In the event the Internal Revenue Service or any other governmental agency should question or challenge the independent contractor status of Consultant or any of his respective employees or agents, the parties hereby agree that both consultant and District shall have the right to participate in any discussion or negotiation occurring with such agency or agencies, regardless of with who or by whom such discussions or negotiations are initiated.

SECTION X: INSURANCE

Consultant shall not commence work under this Agreement until Consultant has obtained, at Consultant's sole expense, the required policies of insurance, a copy of which is attached hereto.

At the time of execution of this Agreement, Consultant shall furnish District with valid Certificate(s) of Insurance for said policies of insurance. Consultant shall, during the life of this Agreement, notify the District, in writing, within 72 hours of knowledge, of any incident-giving rise to potential Bodily Injury or Property Damage claim.

SECTION XI: HOLD HARMLESS AND INDEMNIFICATION

District, its agents, officers and employees shall not be liable for any claims, liabilities, penalties, fines or any damage to property, whether real or personal, nor for any personal injuries or death caused by, or resulting from, or claimed to have been caused by or resulting from, any negligent act or omission of Consultant. Consultant hereby agrees to indemnify and save free and harmless District and its authorized agents, officers and employees against any of the foregoing liabilities, claims and/or any cost or expense that is incurred by District on account of any of the foregoing liabilities, including liabilities or claims by reason of Consultant's negligence in the performance of professional services under this Agreement.

SECTION XII: STANDARD OF CARE

Consultant's services shall be performed in accordance with generally accepted professional practices and principles and in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. All services shall be performed to District's satisfaction.

SECTION XIII: ASSIGNMENT

District has entered into this Agreement in order to receive professional services from Consultant. Any attempts by Consultant to sell, assign, or in any way transfer Consultant's rights or obligations

under this contract without District's prior written consent shall be void. Consultant may make use of the part-time assistance of other experts possessing unique skills, the utilization of which will, in the opinion of Consultant, enhance the quality of service to District under this Agreement.

SECTION XIV: SAFETY

Consultant will be responsible for safety related to and during the performance of the work hereunder. Consultant will ensure that Consultant's employees and the employees of Consultant's sub-contractors are notified of and observe and abide by all safety regulations and laws, including, but not limited to, **District's General Safety Requirements**, a copy of which is attached hereto. Consultant shall include provisions for compliance with all safety regulations and laws, including District's General Safety Requirements, in all sub-contracts.

Consultant shall immediately notify District of any damage to property and/or injury to, or death of, persons, which occurs in connection with or is in any way related to the work. Consultant shall furnish District a written report of any such damage or injury within three (3) working days.

SECTION XV: LIQUIDATED DAMAGES

In the event Consultant does not perform the services covered by a Task Order within the time period agreed to in the Notice to Proceed, liquidated damages may be assessed. The amount of liquidated damages, if any, will be detailed in each Task Order and will be charged per calendar day for each day completion of the services covered by the Task Order exceeds the time specified in the Notice to Proceed.

Liquidated Damages shall not be applied to delays caused by acts of God; strikes, boycotts or similar obstructive actions of employees, failure by District or others to provide requested data or review comments in a timely manner; or any causes beyond the reasonable control of Consultant which are not the result solely of action or inaction by Consultant. Such delays shall result in the time for performance being extended by the length of the delays as documented by Consultant and agreed to by District in writing.

SECTION XVI: TERMINATION

District may terminate the Agreement, in whole or in part, with or without cause, upon seven (7) days written notice to Consultant. Upon receipt of the termination notice, Consultant shall promptly discontinue services unless the notice directs to the contrary. In the event District renders such written notice to Consultant, Consultant shall be entitled to compensation for all services rendered prior to the effective date of the notice and all further services set forth in the notice. District shall be entitled to reimbursement for any compensation paid in excess of services rendered. Consultant acknowledges District's right to terminate this Agreement as provided in the Section, and hereby waives any and all claims for damages that might arise from District's

termination of this Agreement. Consultant shall deliver to the District and transfer title (if necessary) to all completed work, and work in progress including drafts, documents, plans, forms, maps, products, graphics, computer programs and reports.

SECTION XVII: OTHER AGREEMENTS OR UNDERSTANDINGS

It is hereby understood that if there is conflicting language between the Agreement and a Task Order, the language in the Agreement shall govern. To the extent the terms and conditions contained herein are inconsistent with the terms and conditions contained in Consultant's proposal, the terms and conditions in this Agreement shall govern.

SECTION XVIII: PARTIAL INVALIDITY

If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions will nevertheless continue in full force and effect without being impaired or invalidated.

SECTION XIX: AGREEMENT ENFORCEMENT

Should litigation be necessary to enforce any term or provision of this Agreement, or to collect any portion of the amount payable under this Agreement, then all litigation and collection expenses, witness fees and court costs, and attorney's fee shall be paid to the prevailing party.

SECTION XX: GENERAL PROVISIONS

1. Work Product. All original papers, maps, models, designs, studies, surveys, reports, data, notes, computer files, documents, drawings and other work product (collectively "Work Product") of Consultant produced by Consultant pursuant to this Agreement, except documents which are required to be filed with public agencies, shall be deemed solely the property of District. Consultant will take such steps as are necessary to perfect or protect the ownership interest of District in such Work Product. Upon completion, expiration or termination of this Agreement, Consultant shall turn over to District all such original Work Product in Consultant's possession or control.

2. Amendment. This Agreement may not be amended except by a subsequent writing which is signed by the Parties.

3. Governing Law and Venue. This Agreement shall be governed by and construed in accordance with the laws of the State of California. Venue for any dispute shall be brought

exclusively in the federal or state courts located in Riverside County, California, and the Parties hereto consent to the exercise of personal jurisdiction over them by any such courts for purposes of any such action or proceeding.

4. Compliance. All work, labor and materials shall be done and provided in strict conformity with each of the following: (i) all laws, ordinances, codes, rules, regulations and standard specifications of governmental authorities having jurisdiction over Consultant's work; and (ii) this Agreement. Consultant shall also comply, at Consultant's expense, with all requirements of inspectors of any governmental authority having jurisdiction over Consultant's work. The Consultant will be responsible for securing any and all required governmental inspections and approvals for the work completed under this Agreement.

5. Disputes. If any disputes should arise between the Parties concerning the work to be done under this Agreement, the payments to be made, or the manner of accomplishment of the work, Consultant shall nevertheless proceed to perform the work as directed by District pending settlement of the dispute.

6. No Waiver. The fact that District has made payment under this Agreement shall not be interpreted so as to imply District has inspected, approved or accepted the work which has been performed by Consultant. No delay or omission in the exercise of any right or remedy by the non-defaulting Party on any default shall impair such right or remedy or be construed as a waiver. A Party's consent to or approval of any act by the other Party requiring the Party's consent or approval shall not be deemed to waive or render unnecessary the other Party's consent to or approval of any subsequent act. Any waiver by either Party of any default must be in writing and shall not be a waiver of any other default concerning the same or any other provision of the Agreement.

7. Non-Liability of District Officials and Employees. No official or employee of the District shall be personally liable to the Consultant in the event of any default or breach by District or for any amount which may become due to the Consultant or for any breach of the terms of this Agreement.

8. Conflict of Interest. No director, officer or employee of the District shall have any financial interest, direct or indirect, in this Agreement nor shall any such director, officer or employee participate in any decision relating to this Agreement which affects his/her financial interest or the financial interest of any corporation, partnership, entity or association in which he/she is directly or indirectly interested, in violation of any state or federal statute or regulation. The Consultant warrants that it has not paid or given and will not pay or give any third party any money or other consideration for obtaining this Agreement.

9. Best Efforts. The Consultant recognizes the relations of trust and confidence that are established by this Agreement, and covenants with the District to furnish the Consultant's best skill and judgment, and to actively cooperate and assist in furthering the best interests of the District in all matters pertaining to the work. The Consultant agrees to furnish efficient business

administration and capable supervision, and to use every effort to keep upon the work and adequate supply of workmen and materials in order to secure its execution in the most expeditious and economical manner consistent with the District's best interests. The Consultant's employees assigned to the work shall at all times be reasonably satisfactory to the District.

10. Confidential Information. All information gained or Work Product produced by Consultant in the performance of this Agreement will be considered confidential, unless such information is in the public domain. Consultant shall not release or disclose any such information or Work Product to persons or entities other than District without the prior written consent of the General Manager of District, except as otherwise required by law. Consultant shall promptly notify District should Consultant, or its Representatives be served summons, complaint, subpoena, notice of deposition, request for documents, interrogatories, requests for admissions or other discovery request or court order from any third party regarding this Agreement and the services performed under this Agreement.

11. Time is of the Essence. Time shall be of the essence as to all dates and times of performance contained in this Agreement.

12. Authority to Execute. Each Party represents and warrants to the other Party that all necessary action has been taken by such Party to authorize the undersigned to execute this Agreement and to bind it to the performance of its obligations hereunder.

13. Binding Effect. Subject to Section XIII, this Agreement is binding upon the successors and assigns of the Parties.

14. Order of Precedence. In the event of any inconsistency, conflict, or ambiguity between or among the contract documents, the order of precedence, from highest precedence to lowest, shall be as follows:

Amendments to this Agreement

This Agreement

RFP ON CALL LAND SURVEYING SERVICES Document

Company Request for Proposal Dated June 17, 2022

IN WITNESS WHEREOF, the parties hereto have duly executed this Annual Agreement as of the day and year first above written.

<p>COMPANY NAME</p> <p>By: _____ Name and Title</p> <p>Date: _____</p>	<p>BEAUMONT-CHERRY VALLEY WATER DISTRICT</p> <p>By: _____ Daniel K. Jagers, PE General Manager</p> <p>Date: _____</p>
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