

# CITY OF HOMER BID DOCUMENTS



## Homer Pioneer Dock Fender Repair Project

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PREPARED BY:

CITY OF HOMER – PUBLIC WORKS DEPARTMENT

3575 HEATH STREET

HOMER ALASKA, 99603

(907) 235-3170

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**INVITATION TO BID**  
**By the City of Homer, Alaska**  
**For the Homer Pioneer Dock Fender Repair Project**

Sealed Bids for construction of the Homer Pioneer Dock Fender Repair Project will be received by the Office of the City Clerk, 491 E. Pioneer Avenue, Homer, Alaska 99603 until **2:00 PM on Wednesday, January 11, 2023**, at which time they will be publicly opened. Bids received after the time fixed for receipt of the Bid shall not be considered. **All bidders must submit a City of Homer Plan Holders Registration form to be on the Plan Holders List to be considered responsive.** Plan holder registration forms and Plan and Specification are available online at <http://www.cityofhomer-ak.gov/rfps>

An electronic copy of the Bid Documents and Plan Holder Registration form are available online at <https://www.cityofhomer-ak.gov/rfps>. Paper copies of the Bid Documents may be purchased at the Office of the City Clerk upon payment of \$100 per set (\$150 for priority mail delivery). All fees are non-refundable.

The project consists of furnishing all labor, materials, equipment, tools, supervision, and other facilities necessary to perform the project in accordance with the plans and specifications. The work includes, but is not limited to the following:

- Demolition: All required.
- Fender Sleeve Repairs at Fenders 14, 15 and 16.
- Replace chain attachment fender and dock pad eyes.
- Replace chain, chain adjusters and shackles.
- Install energy absorbers and anchor bolts.
- Furnish and install Transition plates.
- Replace ¾" electrical conduit and 10 AWG wire.

A Pre-Bid meeting will be held at the City Hall Cowles Council Chambers at 2:00 p.m. on Wednesday, January 4, 2023 and will be followed by a site visit.

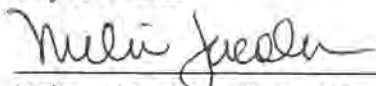
For Bid Plans and Specifications contact: City Clerk, 491 E. Pioneer Avenue, Homer, Alaska 99603, (907) 235-3130, [mjacobsen@ci.homer.ak.us](mailto:mjacobsen@ci.homer.ak.us).

Please direct all questions in writing regarding this project to: Janette Keiser, PE, Public Works Director, City of Homer Public Works Dept., 3575 Heath Street, Homer, Alaska 99603 Email: [jkeiser@ci.homer.ak.us](mailto:jkeiser@ci.homer.ak.us) Phone: (907) 435-3141

The City of Homer reserves the right to accept or reject any or all bids, and to waive irregularities or informalities in the bids.

Dated this 14<sup>th</sup> day of December, 2022.

City of Homer



Melissa Jacobsen, Acting City Manager

Publish: Homer News December 22 and 29, 2022 & Anchorage Daily News December 18, 2022

**INSTRUCTIONS TO BIDDERS**  
**City of Homer, Alaska**  
**Homer Pioneer Dock Fender Repair Project**

The City of Homer, Alaska is requesting bids from qualified firms and individuals for the project described herein.

The following subjects are discussed herein to assist you in the preparation of your bid.

- I. Introduction
- II. Scope of Services
- III. General Bidding Requirements
- IV. The Bid Package
- V. Instructions to Bidders
- VI. Prevailing Wages
- VII. Equal Opportunity Employment Certification

**I. Introduction**

The City of Homer requests bids for the Homer Pioneer Dock Fender Repair Project. The purpose of this project is repair damage caused to the fenders of the Pioneer Dock in the Homer Harbor.

All work activity associated with the project shall be completed by July 10, 2023.

**II. Scope of Services**

The proposed work is located within the limits of the City of Homer and is illustrated on the plans entitled Homer Pioneer Dock Fender Repairs.

The project consists of furnishing all labor, materials, equipment, tools, supervision and other facilities necessary for the performance of the work described herein and shown on the project drawings. The work includes, but is not limited to:

- Demolition: All required.
- Fender Sleeve Repairs at Fenders 14, 15 and 16.
- Replace chain attachment fender and dock pad eyes.
- Replace chain, chain adjusters and shackles.
- Install energy absorbers and anchor bolts.
- Furnish and install Transition plates.
- Replace ¾" electrical conduit and 10 AWG wire.

**III. General Bidding Requirements**

The work must be performed by a Contractor skilled and regularly engaged in the type of work called for under the Contract. Bidders must have a current contractor's license issued by the State of Alaska. The license must apply to the work described in the Invitation. The City's local bidder preference requirements apply to this contract. State prevailing wage rates will apply.



An electronic copy of Plans and Specifications is available on the City's website <http://www.cityofhomer-ak.gov/rfps> or you may purchase hard copies at the Office of the City Clerk upon payment of \$100 per set (\$150 for overnight delivery). City of Homer Standard Construction Specifications 2011 Edition (containing general contract provisions) may also be downloaded from the city's website. All fees are non-refundable. The City of Homer reserves the right to accept or reject any or all bids, to waive irregularities or informalities in the bids, and to award the contract to the lowest responsive, responsible bidder.

**Performance and Payment bonds** in the amount of 100 percent (100%) of the bid amount are required.

Bids must be submitted on the Bid Form and be received by **2:00 PM on Wednesday, January 11, 2023** at the Office of the City Clerk, City of Homer 491 E. Pioneer Avenue, Homer, Alaska, 99603. **A bid bond is required.** Cashier checks in an amount equal to five percent (5%) of the bid are acceptable. Surety bonds are acceptable.

**A Pre-Bid Meeting will be held at 2:00 p.m. on January 4, 2023** at the Cowles Council Chamber, City Hall 491 E Pioneer Ave Homer, Alaska 99603. This meeting will be conducted simultaneously via Zoom. Invitations will be distributed to all bidders listed on the Plan Holder's List maintained by the City Clerk's Office.

A Site Visit will be conducted immediately following the meeting.

#### **IV. The Bid Package**

**The City of Homer requires a two-part Bid Package, Part A and Part B. Each portion of the Bid Package must be submitted in separate envelopes, which shall be combined into one single Bid Package, marked with the name of the project and the time/date of the bid opening.**

**At the bid opening, Part A is opened first and must be complete or Part B will not be opened and the bid will be rejected.**

**Part A** of the bid contains:

- a. Addenda Acknowledgment Form
- b. If signature on the Bid is by an agent, other than an Officer of a Corporation, or of a member of a Co-partnership, a Power of Attorney must be submitted in Part A.
- c. EEO-1 Certification
- d. Equal Employment Opportunity Clause

Part A must be submitted, as part of the Bid Package, in a separate envelope marked Part A.

**Part B** of the bid contains:

- a. Bid Form
- b. Bid Bond

Part B must be submitted, as part of the Bid Package, in a separate envelope marked Part B.

#### **VI. Instructions to Bidders**

The City of Homer intends to award the contract to the lowest responsive, responsible bidder but reserves the right to accept or reject any or all proposals, to waive irregularities or informalities in the bids or bid process, and to award the contract to the bidder that best meets the criteria stated below.

**A. Qualification of Bidders**

It is the intention of the City of Homer to award this contract to the Bidder who furnishes satisfactory evidence they have the requisite experience, ability and sufficient capital, facilities and plant to prosecute the work successfully (and properly) and to complete it within the time allowed in the Contract at the least cost to the City of Homer for dollars spent for value received. Bidders will be required to fill out a questionnaire attesting to their qualifications.

**B. Taxes**

Attention is directed to the requirements of the General Conditions regarding the payment of taxes. All taxes that are lawfully assessed against Owner or Contractor in connection with the work shall be paid by the Contractor. The Bid prices shall include all such taxes.

The City of Homer is exempt from local sales taxes. The Contractor shall not include sales tax markup in his bid. However, in order to recoup sales tax the Contractor might pay at local vendors, the Contractor must secure a Tax Exempt card from the Kenai Peninsula Borough Tax Department.

**C. Familiarization with the Work**

Before submitting its Bid, each prospective Bidder shall familiarize itself with the work, labor conditions and all laws, regulations and other factors affecting performance of the work. Bidders shall carefully correlate their observations with the requirements of the Contract Documents and otherwise satisfy themselves of the expense and difficulties attending performance of the work. The submission of a Bid shall constitute an acknowledgement that the Bidder has thoroughly examined and is familiar with the Contract Documents and the provisions thereof. The failure or neglect of a Bidder to receive or examine any of the Bid Documents shall in no way relieve the bidder from any obligations with the respect to their Bid or to the Contract. Misinterpretation or a reputed lack of knowledge concerning the Bid will not serve as a basis for a claim for additional compensation.

Each Bidder shall visit the site of the work and completely inform themselves relative to construction hazards and procedures, the availability of lands, the character and quantity of surface and subsurface materials and utilities to be encountered, the arrangement and conditions of existing structures and facilities, the procedure necessary for maintenance of uninterrupted operations of existing facilities, the character of construction equipment and facilities needed for performance of the work, and facilities for transportation, handling and storage of materials and equipment. All such factors shall be properly investigated and considered in the preparation of the Bid.

**D. Interpretation of Bid Documents**

All questions about the meaning or intent of the Contract Documents shall be submitted to the Office of the Director of Public Works in writing. Replies will be issued by Addenda and delivered to all parties recorded by the City Clerk's Office as having received the Bidding documents. **The City of Homer will not be held**

**responsible for questions received less than (5) calendar days prior to the date of opening of Bids.** Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

**The Bidder shall acknowledge receipt of all Addenda on the Addendum Form, which shall be properly signed by the Bidder and placed in Part A.**

It shall be the Bidder's responsibility to inquire as to addenda issued. **Failure to include the Addenda Form in Part A of the Bid Package shall result in the Bid being rejected as non-responsive.**

#### **E. Bid Bond**

Each Bid shall be accompanied by a Bid Bond duly completed on the suggested form provided by a guaranty company authorized to conduct business in the State of Alaska, along with a General Power of Attorney form, if applicable, for payment to the City in the sum of five percent (5%) of the total amount of the Bid. **Failure to include the Bid Bond in Part B of the Bid Package shall result in the Bid being rejected as non-responsive.**

The amount payable to the City under the Bid Bond or the certified or cashier's check, as the case may be, shall be forfeited to the City in case of a failure or neglect of the Bidder to furnish, execute, and deliver to the City required Performance and Payment Bonds, Evidences of Insurance, necessary forms or material required by the Bid or failure to enter into, execute and deliver to the City the Contract on the form provided therefor, **within ten (10) working days after receipt of "Notice of Intent to Award Contract"** by the City that the Contract is ready for execution. The "Award of Contract" will be made upon the execution of the Contract by the Bidder and the City.

#### **F. Return of Bid Guarantee**

Within thirty (30) days after the Bids are opened, the City will return the Bid Guarantees accompanying the Bids, which are not to be considered in making the award. The bid Guarantees of the three (3) lowest responsive Bids will be held until the Contract has been fully executed after which time the Guarantees will be returned to the respective Bidders whose Bids the Guarantees accompanied.

#### **G. Contract Time**

The Contract Time is an essential part of the Contract and it will be necessary for each Bidder to satisfy the City of his ability to complete the work within the time set forth in the Bid form. Provisions for delays, liquidated damages, and extensions of time are set forth in the Standard Construction Specifications. Time is of the essence in this contract.

#### **H. Preparation of Bids**

Bids must be submitted on the forms provided by the City and completed in all respects as required by the Bid Documents. Bids shall include all information requested herein, and be manually signed by the Bidder or the Bidder's duly authorized representative, with the Bidder's address and phone number. If the signature is by an agent, other than an Officer of a Corporation, or a member of a Co-partnership, a Power of Attorney must be submitted in Part A of the Bid; otherwise, the Bid will be rejected as non-responsive. **All Bids must be regular in every respect, and no alterations shall be made to the Bid form.**

If erasures or changes appear on the forms, each must be initialed by the person signing the Bid. No oral, telegraphic, electronic or telephone proposals will be considered.

Bid Packages, containing separate envelopes for Part A and Part B of the bid, will be received at the City Clerk's Office located at City Hall 491 East Pioneer Avenue, Homer, Alaska 99603, until the time indicated on the Invitation to Bid. Each Bid shall be submitted enclosed in a sealed, opaque envelope. **The envelope shall have the Bid title and date of Bid opening on the lower left-hand corner of the Bid Package.** The City is not responsible for the premature opening of, or failure to open, a bid not properly addressed and identified.

No consideration will be given by the City to a claim or error unless such claim is made to the City in writing within two (2) hours after the time of Bid opening. Written verification and supporting evidence of the error shall be delivered to the City Clerk within 24 hours of the Bid Opening (not including Saturday, Sunday or legal holidays) to allow consideration of the claim for error. Supporting evidence shall be original documents, including cost breakdown sheets, supplier quotes and other documents used to compute the Bid.

It is the bidder's responsibility to see that Bid Packages are deposited at the time and place set forth for the public opening of Bids. Bids not received by the time will not be considered responsive and shall not be considered.

## **VII. Labor Rates**

### **State Labor Rates.**

This project is covered by the State of Alaska Title 36 Laborer's and Mechanic's Minimum Rate of Pay (AS 36.05.010 & 36.05.050) Pamphlet No. 600, Issue 44, Effective April 1, 2022. It is the responsibility of the bidder to determine the current rates of pay required and to submit the proper certified payrolls to the State Department of Labor.

## **VIII. Equal Opportunity Employment**

Bidders must submit forms related to Equal Employment Opportunity with their bids, including:

- Equal Employment Opportunity Clause (Provided with the bid package)
- EEO-1 Certification

# Project Schedule

## Homer Pioneer Dock Fender Repair Project

Advertise	Homer News Anchorage Daily News	12/22/2022, 12/29/2022 12/18/2022
Pre-Bid Site Meet via Zoom Cowles Council Chambers followed immediately by Site Visit		2:00 p.m. Wednesday January 4, 2023
Bids Due		2:00 p.m. Wednesday January 11, 2023
Notice of Intent to Award		January 12, 2023
Council Award		January 23, 2023
Notice to Proceed		January 31, 2023
Pre-Construction Meeting		March 13, 2023
Start Construction		March 15, 2023
Construction Complete		July 10, 2023

## **SPECIAL PROVISIONS**

### **Homer Pioneer Dock Fender Repair Project**

The construction contract for this project will be administered in accordance with the General Provisions of the City's Standard Construction Specifications (2011).

#### **MODIFICATIONS TO GENERAL PROVISIONS**

##### **SP - 1: Section 10.04 – Add New Article 4.6 – Scope of Work**

The Work included under this Contract consists of furnishing all labor, materials, equipment, supervision, and other facilities necessary to successfully complete the Work set forth in the drawings, specifications, and the terms of the Contract, including, but not limited to the following work:

- Mobilization and Demobilization.
- Demolition: All required.
- Fender Sleeve Repairs at Fenders 14, 15 and 16.
- Replace chain attachment fender pad eyes: Furnish and install all hardware as shown in the Plans.
- Replace chain attachment dock pad eyes: Furnish and install all hardware as shown in the Plans. Inspect existing anchor bolts for damage and replace with Owner – provided anchor bolts if needed.
- Replace chain, chain adjusters and shackles: Furnish and install all hardware as shown in the Plans.
- Install energy absorbers and anchor bolts with acrylic adhesive; after removal and inspection of existing energy absorbers, the Owner will direct the Contractor to reuse the existing or provide a new energy absorber with new anchor bolts.
- Furnish and install Transition plates.
- Replace ¾" electrical conduit and 10 AWG wire: replace and connect approximately 10 feet of electrical conduit and 10 AWG wire with junction boxes in accordance with latest version of National Electrical Code (NEC).

##### **SP – 2: Section 10.06 – Modify Article 6.1 – Laws to be Observed**

Add the following language:

“Contractor shall be in compliance with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h)), section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15).”

**SP – 3: Section 10.07 – Modify Article 7.6 – Progress Payments**

Remove the following language:

“Until such time as the work is accepted by the City, retainage shall be withheld in accordance with the following schedule:

<b>Contract Completion Percentage</b>	<b>Retainage Percentage</b>
<b>0-75%</b>	<b>10%</b>
<b>76-95%</b>	<b>5%*</b>
<b>Over 95%</b>	<b>5%*</b>

\*May be reduced to these percentages depending upon satisfactory performance and adherence to the Contractor’s progress schedule, clean-up, Contract completion cost and other factor, in the judgement of the Engineer.”

And replace with:

“Until such time as the work is accepted by the City, 10% of the final payment application shall be withheld as retainage.”

**BID FORM**

**Homer Pioneer Dock Fender Repair Project**

<b>ITEM NO.</b>	<b>SPEC NO.</b>	<b>BID ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY*</b>	<b>UNIT BID PRICE</b>	<b>TOTAL BID PRICE</b>
1	101	Mobilization & Demobilization	LS	1		
2		Demolition	LS	1		
3		Fender Sleeve Repair at Fenders 14, 15 & 16	EA	3		
4		Replace Chain Attachment Fender Pad Eyes	EA	1		
5		Replace Chain Attachment Dock Pad Eyes	EA	12		
6		Replace Energy Adjusters & Shackles	EA	12		
7		Install Energy Absorbers & Anchor Bolts with Acrylic Adhesive	EA	12		
8		Furnish & Install Transition Plates	EA	6		
9		Repair DIA Electrical Conduit & 10 AWG Wire	LS	1		

**Grand Total All Bid Items: \$ \_\_\_\_\_**

Name of Bidding Company \_\_\_\_\_

Address of Bidding Company \_\_\_\_\_

Signature of Company Representative \_\_\_\_\_ Date \_\_\_\_\_

Printed Name of Company Representative \_\_\_\_\_

Phone#/Email \_\_\_\_\_



# CONTRACT

This Contract, made and entered into by and between the City of Homer, Alaska, a Municipal Corporation, hereinafter called the “City” and

---

(Company Name)

Hereinafter called the “Contractor”.

## **I. CONTRACT DOCUMENTS**

The Contractor, in consideration of the sum to be paid by the City agrees to furnish all materials, tools, labor, machinery and appurtenances to perform the work set forth in the Contract documents, including:

- a. Signed copy of the Bid;
- b. Performance Bond;
- c. Payment Bond;
- d. Bid documents;
- e. All Addenda, totaling \_\_;
- f. The drawings which consist of \_\_ sheets titled City of Homer Pioneer Dock Fender Repairs.
- g. The 2011 Homer Standard Construction Specifications, including the general provisions;

Said Contract Documents are fully and completely incorporated as part of the Contract as if the same were fully set forth herein.

In consideration of the performance of the work as set forth in these Contract Documents, the City agrees to pay to the Contractor the amounts specified in the Contract Documents and to make such payments upon the Contractor’s invoicing as approved by the City.

## **II. CONTRACT COMPLETION TIME**

The Contractor agrees to complete the Project, in all respects on or before \_\_\_\_\_, 2022.

## **III. CONTRACT AMOUNT**

\$ \_\_\_\_\_  
In Numbers

\$ \_\_\_\_\_  
In Words

**IV. LIQUIDATED DAMAGES**

Liquidated damages in the amount of **\$350.00** per day will apply to the Contractor's unexcused delay in the Completion of Construction. The liquidated damage amount specified herein shall only apply to damages and expenses the Owner may incur as a result of a delay in placing the facility into use and operation exclusive of third party damages or claims. The liquidated damage amount shall not cover any damages or expenses the Owner may incur as a result of the Contractor's unexcused delay in completing any portion of the entire Project, which delay results in whole or in part in delay, disruption, hindrance, interference, damages or expenses to any third party. The Contractor shall remain liable for the full amount of any such delay damages or expenses suffered by any third party without limitation by any liquidated damage provision set forth in the Contract.

IN WITNESS WHEREOF, we, the parties hereto, each herewith subscribe the same this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

CITY OF HOMER

By: \_\_\_\_\_  
Robert Dumouchel

Title: City Manager

CONTRACTOR

\_\_\_\_\_  
(Contractor)

By: \_\_\_\_\_

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

**PERFORMANCE BOND**

KNOW ALL THESE PRESENTS: That we \_\_\_\_\_  
(Name of Contractor)

\_\_\_\_\_ a \_\_\_\_\_  
(Corporation, Partnership, Individual)

hereinafter called "Principal" and \_\_\_\_\_  
(Surety)

of \_\_\_\_\_, State of \_\_\_\_\_

hereinafter called the "Surety" are held and firmly bound unto the City of Homer, hereinafter called "Owner," in the penal sum of \_\_\_\_\_ dollars (\$\_\_\_\_\_) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION are such that Whereas, the Principal has or is about to enter into a certain contract with the Owner, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the Owner, with or without notice to the Surety, and if it shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then this obligations shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or the work to be performed thereunder or the specifications accompanying the same shall in any wise affect it obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in five (5) counterparts, each one of which shall be deemed and original, this the \_\_\_\_\_ day of \_\_\_\_\_, 2022.

ATTEST:

\_\_\_\_\_  
(Principal's Corporate Secretary)

\_\_\_\_\_  
(Principal)

Affix CORPORATE SEAL if applicable

\_\_\_\_\_  
(Address-Zip Code)

\_\_\_\_\_  
(Witness as to Principal)

\_\_\_\_\_  
(Address - Zip Code)

\_\_\_\_\_  
(Surety)

ATTEST:

By: \_\_\_\_\_  
(Attorney-in-Fact)

\_\_\_\_\_  
(Surety) Secretary

\_\_\_\_\_  
(Address-Zip Code)

(Affix SURETY'S SEAL)

\_\_\_\_\_  
(Witness as to Surety)

\_\_\_\_\_  
(Address-Zip Code)

Notes:

If Principal is Partnership, all partners must execute bond. The Attorney-in-Fact, who executes this bond on behalf of the surety, must attach a copy of his Power-of-Attorney as evidence of his authority.

## **PAYMENT BOND**

KNOW ALL THESE PRESENTS: That we \_\_\_\_\_  
(Name of Contractor)

\_\_\_\_\_ a \_\_\_\_\_  
(Corporation, Partnership, Individual)

hereinafter called "Principal" and \_\_\_\_\_  
(Surety)

of \_\_\_\_\_, State of \_\_\_\_\_

hereinafter called the "Surety" are held and firmly bound unto the City of Homer,

hereinafter called "Owner," in the penal sum of \_\_\_\_\_

dollars (\$\_\_\_\_\_) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATIONS are such that Whereas, the Principal has or is about to enter into a certain contract with the Owner, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, subcontractors and corporations furnishing material for, or performing labor in the prosecution of the work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for material, lubricants, fuels, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor performed in such work, whether by subcontractor or otherwise, then this obligation shall be void: otherwise to remain in full for and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or the work to be performed thereunder or the specifications accompanying the same shall in any wise affect it obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in five (5) counterparts, each one of which shall be deemed and original, this the \_\_\_\_\_ day of \_\_\_\_\_, 2022.

ATTEST:

\_\_\_\_\_  
(Principal's Corporate Secretary)

\_\_\_\_\_  
(Principal)

Affix CORPORATE SEAL if applicable

\_\_\_\_\_  
(Address-Zip Code)

\_\_\_\_\_  
(Witness as to Principal)

\_\_\_\_\_  
(Address-Zip Code)

\_\_\_\_\_  
(Surety)

ATTEST:

By: \_\_\_\_\_  
(Attorney-in-Fact)

\_\_\_\_\_  
(Surety) Secretary

\_\_\_\_\_  
(Address-Zip Code)

(Affix SURETY'S SEAL)

\_\_\_\_\_  
(Witness as to Surety)

\_\_\_\_\_  
(Address-Zip Code)

Notes:

If Principal is Partnership, all partners must execute bond. The Attorney-in-Fact, who executes this bond on behalf of the Surety, must attach a copy of her Power-of-Attorney as evidence of her authority.

**BID BOND**

KNOW ALL THESE PRESENTS: That we \_\_\_\_\_

(Name of Contractor)

\_\_\_\_\_ a \_\_\_\_\_ hereinafter  
(Corporation, Partnership, Individual)

called "Principal" and \_\_\_\_\_ of  
(Surety)

\_\_\_\_\_, State of \_\_\_\_\_ hereinafter called the  
"Surety" are held and firmly bound unto the City of Homer, hereinafter called "Owner," in the penal sum of

\_\_\_\_\_ dollars (\$\_\_\_\_\_) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATIONS are such that: Whereas, the Principal has herewith submitted his or its BID for \_\_\_\_\_ said bid, by reference thereto, being hereby made a part hereof.

NOW, THEREFORE, if the Bid submitted by the Principal is accepted and the Contract awarded to the Principal, and if the Principal shall execute the proposed Contract and shall furnish such Performance and Payment Bond as required by the Contract Documents within the time fixed by the documents, then this obligation shall be void: if the Principal shall fail to execute the proposed Contract and furnish the Bond, the Surety hereby agrees to pay the Owner the penal sum as liquidated damages: \_\_\_\_\_

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, 2022

ATTEST:

\_\_\_\_\_  
(Principal's Corporate Secretary)

Affix CORPORATE SEAL if applicable

\_\_\_\_\_  
(Principal)

\_\_\_\_\_

\_\_\_\_\_  
(Address-Zip Code)

\_\_\_\_\_  
(Witness as to Principal)

\_\_\_\_\_  
(Address-Zip Code)

\_\_\_\_\_  
(Surety)

ATTEST:

By: \_\_\_\_\_  
(Attorney-in-Fact)

\_\_\_\_\_  
(Surety) Secretary

(Affix SURETY'S SEAL)

\_\_\_\_\_  
(Address Zip Code)

\_\_\_\_\_  
(Witness as to Surety)

\_\_\_\_\_  
(Address-Zip Code)

**Notes:**

If Principal is Partnership, all partners must execute bond. The Attorney-in-Fact, who executes this bond on behalf of the Surety, must attach a copy of her Power-of-Attorney as evidence of her authority.



ADDENDA ACKNOWLEDGMENT

Project Name: \_\_\_\_\_

I hereby acknowledge addenda numbers:

_____	_____
_____	_____
_____	_____

Name of Firm: \_\_\_\_\_

Signature of Bidder: \_\_\_\_\_

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

**This Acknowledgement must be included in the Bid/Proposal for the project if any Addenda are issued or the Bid/Proposal could be considered non-responsive.**

**CONTRACTOR'S QUESTIONNAIRE  
NOTICE TO CONTRACTORS**

Prior to Award, this questionnaire shall be completely filled out for the project upon which a bid is submitted.

**A. FINANCIAL**

1. Have you ever failed to complete a contract on account of insufficient resources?  
\_\_\_\_\_
  
2. Have you made sufficient arrangements to finance the work? \_\_\_\_\_  
If so, with whom and for what amount? \_\_\_\_\_  
\_\_\_\_\_  
If so, with what company? \_\_\_\_\_

**B. EQUIPMENT**

1. Set forth below the equipment which you have available for the work, which you propose to do. This equipment should be listed in detail (General statements will not be accepted).

NO.	ITEMS	TYPE	SIZE/CAPACITY	PRESENT VALUE

2. Do you thoroughly understand that in case the contract is awarded to you, you may be required to use any or all of the equipment listed on the work covered by this contract?  
\_\_\_\_\_
  
3. Do you propose to purchase any equipment for use on this project should the contract be awarded to you? If so, state type, quantity and approximate cost.  
\_\_\_\_\_  
\_\_\_\_\_
  
4. Do you propose to rent any equipment for this work? \_\_\_\_\_  
If so, state type, quantity, and reason for renting. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  
5. Have you made contracts or received firm offers for all necessary materials with the prices used in preparing your proposal? \_\_\_\_\_
  
6. Do you intend to plan to subcontract any of the work? \_\_\_\_\_  
If so, what types or portions of the work. \_\_\_\_\_

Approximate value \$ \_\_\_\_\_ Percent of total bid \_\_\_\_\_

**C. EXPERIENCE**

1. How many years has your organization been in business as a general contractor under your present business name? \_\_\_\_\_
2. How many years of experience in construction work has your organization had:
  - a) As a General Contractor \_\_\_\_\_.
  - b) As a Subcontractor \_\_\_\_\_.
3. List previous contracts you have completed of a similar nature to this proposed contract:
  - a) \_\_\_\_\_
  - b) \_\_\_\_\_
  - c) \_\_\_\_\_
  - d) \_\_\_\_\_
  - e) \_\_\_\_\_
4. List projects which you currently have under contract or expect to have under contract during the life of this contract:
  - a) \_\_\_\_\_
  - b) \_\_\_\_\_
  - c) \_\_\_\_\_

Use additional sheets as necessary.

5. List your staff you plan to use on this project and the position they will fill for this project (include managerial and clerical personnel that will provide support services).

**STAFF MEMBER**

**POSITION**

STAFF MEMBER	POSITION
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Signature: \_\_\_\_\_

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

- Joint Reporting Committee
- Equal Employment Opportunity Commission
  - Office of Federal Contract Compliance Programs (Labor)

# EQUAL EMPLOYMENT OPPORTUNITY

## EMPLOYER INFORMATION REPORT EEO-1

Standard Form 100  
REV. 01/2006

O.M.B. No. 3045-0007  
EXPIRES 01/2009  
100-214

### Section A—TYPE OF REPORT

Refer to instructions for number and types of reports to be filed.

1. Indicate by marking in the appropriate box the type of reporting unit for which this copy of the form is submitted (MARK ONLY ONE BOX).

(1)  Single-establishment Employer Report

Multi-establishment Employer:

(2)  Consolidated Report (Required)

(3)  Headquarters Unit Report (Required)

(4)  Individual Establishment Report (submit one for each establishment with 50 or more employees)

(5)  Special Report

2. Total number of reports being filed by this Company (Answer on Consolidated Report only) \_\_\_\_\_

### Section B—COMPANY IDENTIFICATION (To be answered by all employers)

1. Parent Company

OFFICE  
USE  
ONLY

a. Name of parent company (owns or controls establishment in item 2) omit if same as label

a.

Address (Number and street)

b.

City or town

State

ZIP code

c.

2. Establishment for which this report is filed. (Omit if same as label)

a. Name of establishment

d.

Address (Number and street)

City or Town

County

State

ZIP code

e.

b. Employer identification No. (IRS 9-DIGIT TAX NUMBER)

f.

c. Was an EEO-1 report filed for this establishment last year?  Yes  No

### Section C—EMPLOYERS WHO ARE REQUIRED TO FILE (To be answered by all employers)

Yes  No 1. Does the entire company have at least 100 employees in the payroll period for which you are reporting?

Yes  No 2. Is your company affiliated through common ownership and/or centralized management with other entities in an enterprise with a total employment of 100 or more?

Yes  No 3. Does the company or any of its establishments (a) have 50 or more employees AND (b) is not exempt as provided by 41 CFR 60-1.5, AND either (1) is a prime government contractor or first-tier subcontractor, and has a contract, subcontract, or purchase order amounting to \$50,000 or more, or (2) serves as a depository of Government funds in any amount or is a financial institution which is an issuing and paying agent for U.S. Savings Bonds and Savings Notes?

If the response to question C-3 is yes, please enter your Dun and Bradstreet identification number (if you have one):

NOTE: If the answer is yes to questions 1, 2, or 3, complete the entire form, otherwise skip to Section G.

**Section D-EMPLOYMENT DATA**

Employment at this establishment - Report all permanent full- and part-time employees including apprentices and on-the-job trainees unless specifically excluded as set forth in the instructions. Enter the appropriate figures on all lines and in all columns. Blank spaces will be considered as zeros.

Job Categories	Number of Employees (Report employees in only one category)															Total Col A - N
	Race/Ethnicity															
	Hispanic or Latino		Not-Hispanic or Latino													
	Male	Female	Male						Female							
White			Black or African American	Native Hawaiian or Other Pacific Islander	Asian	American Indian or Alaska Native	Two or more races	White	Black or African American	Native Hawaiian or Other Pacific Islander	Asian	American Indian or Alaska Native	Two or more races			
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
Executive/Senior Level Officials and Managers 1.1																
First/Mid-Level Officials and Managers 1.2																
Professionals 2																
Technicians 3																
Sales Workers 4																
Administrative Support Workers 5																
Craft Workers 6																
Operatives 7																
Laborers and Helpers 8																
Service Workers 9																
<b>TOTAL</b> 10																
<b>PREVIOUS YEAR TOTAL</b> 11																

1. Date(s) of payroll period used: \_\_\_\_\_ (Omit on the Consolidated Report.)

**Section E - ESTABLISHMENT INFORMATION (Omit on the Consolidated Report.)**

1. What is the major activity of this establishment? (Be specific, i.e., manufacturing steel castings, retail grocer, wholesale plumbing supplies, title insurance, etc. Include the specific type of product or type of service provided, as well as the principal business or industrial activity.)

**Section F - REMARKS**

Use this item to give any identification data appearing on the last EEO-1 report which differs from that given above, explain major changes in composition of reporting units and other pertinent information.

**Section G - CERTIFICATION**

Check 1  All reports are accurate and were prepared in accordance with the instructions. (Check on Consolidated Report only.)  
 one 2  This report is accurate and was prepared in accordance with the instructions.

Name of Certifying Official	Title	Signature	Date
Name of person to contact regarding this report	Title	Address (Number and Street)	
City and State	Zip Code	Telephone No. (including Area Code and Extension)	Email Address

All reports and information obtained from individual reports will be kept confidential as required by Section 709(e) of Title VII. WILLFULLY FALSE STATEMENTS ON THIS REPORT ARE PUNISHABLE BY LAW, U.S. CODE, TITLE 18, SECTION 1001

## **EQUAL EMPLOYMENT OPPORTUNITY CLAUSE**

During the performance of this contract, the contractor agrees to comply with OFCC Regulations 40 CFR 60.1.4 (1) through (7) as follows:

1. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

1. The contractor will send to each labor union or representative of workers with whom he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order 11246 of September 24, 1965 and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

2. The contractor will comply with all provisions of executive order 11246 of September 24, 1965 and of the rules, regulations, and relevant orders of the Secretary of Labor.

3. The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965 and by the rules, regulations, and orders of the secretary of labor, or pursuant thereto, and will permit access of his books, records, and accounts by the contracting agency and the secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

4. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any such rules, regulations or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further government contracts in accordance with procedures authorized in executive order 11246 of September 24, 1965 and such other sanctions may be imposed and remedies invoked as provided in executive order 11246 of September 24, 1965 or by rule, regulation or order of the Secretary of Labor as otherwise provided by law.

5. The contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965 so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however that in the event the contractor becomes involved in, or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the United States to enter into such litigation to protect the interest of the United States.

---

(Signature)


---

(Title)

---

(Date)





# MINIMUM RATES OF PAY For Laborers and Mechanics

Effective September 1, 2022

Issue 45

**PAMPHLET No. 600**

Title 36. Public Contracts  
AS 36.05

**DEPARTMENT OF LABOR  
AND WORKFORCE DEVELOPMENT**

Wage and Hour



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September 1, 2022

**TO ALL CONTRACTING AGENCIES:**

At the Alaska Department of Labor and Workforce Development our goal is putting Alaskans to work. This pamphlet is designed to help contractors awarded public construction contracts understand the most significant laws of the State of Alaska pertaining to prevailing wage.

This pamphlet identifies current prevailing wage rates for public construction contracts (any construction projects awarded for the State of Alaska or its political subdivisions, such as local governments and certain non-profit organizations). Because these rates may change in a subsequent determination, please be sure you are using the appropriate rates. The rates published in this edition become effective September 1, 2022.

The prevailing wage rates contained in this pamphlet are applicable to public construction projects with a final bid date of September 11, 2022, or later. As the law now provides, these rates will remain stable during the life of a contract or for 24 calendar months, whichever is shorter. **The 24-month period begins on the date the prime contract is awarded.** Upon expiration of the initial 24-month period, the latest wage rates issued by the department shall become effective for a subsequent 24-month period or until the original contract is completed, whichever occurs first. This process shall be repeated until the original contract is completed.

The term "original contract" means the signed contract that resulted from the original bid and any amendments, including changes of work scope, additions, extensions, change orders, and other instruments agreed to by the parties that have not been subject to subsequent open bid procedures.

If a higher federal rate is required due to partial federal funding or other federal participation, the higher rate must be paid.

For additional copies of this pamphlet go to: <http://labor.state.ak.us/lss/pamp600.htm>

For questions regarding prevailing wage or employment preference requirements, please contact the nearest Wage and Hour office. These offices are listed on Page x.

Sincerely,

A handwritten signature in black ink that reads "Tamika L. Ledbetter".

Dr. Tamika L. Ledbetter  
Commissioner

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**Note to Readers:** The statutes and administrative regulations listed in this publication were taken from the official codes, as of the effective date of the publication. However, there may be errors or omissions that have not been identified and changes that occurred after the publication was printed. This publication is intended as an informational guide only and is not intended to serve as a precise statement of the statutes and regulations of the State of Alaska. To be certain of current laws and regulations, please refer to the official codes.

## EXCERPTS FROM ALASKA LAW

### **Sec. 36.05.005. Applicability.**

This chapter applies only to a public construction contract that exceeds \$25,000.

### **Sec. 36.05.010. Wage rates on public construction.**

A contractor or subcontractor who performs work on a public construction contract in the state shall pay not less than the current prevailing rate of wages for work of a similar nature in the region in which the work is done. The current prevailing rate of wages is that contained in the latest determination of prevailing rate of wages issued by the Department of Labor and Workforce Development at least 10 days before the final date for submission of bids for the contract. The rate shall remain in effect for the life of the contract or for 24 calendar months, whichever is shorter. At the end of the initial 24-month period, if new wage determinations have been issued by the department, the latest wage determination shall become effective for the next 24-month period or until the contract is completed, whichever occurs first. This process shall be repeated until the contract is completed.

### **Sec. 36.05.040. Filing schedule of employees, wages paid, and other information.**

All contractors or subcontractors who perform work on a public construction contract for the state or for a political subdivision of the state shall, before the Friday of every second week, file with the Department of Labor and Workforce Development a sworn affidavit for the previous reporting period, setting out in detail the number of persons employed, wages paid, job classification of each employee, hours worked each day and week, and other information on a form provided by the Department of Labor and Workforce Development.

### **Sec. 36.05.045. Notice of work and completion; withholding of payment.**

- (a) Before commencing work on a public construction contract, the person entering into the contract with a contracting agency shall designate a primary contractor for purposes of this section. Before work commences, the primary contractor shall file a notice of work with the Department of Labor and Workforce Development. The notice of work must list work to be performed under the public construction contract by each contractor who will perform any portion of work on the contract and the contract price being paid to each contractor. The primary contractor shall pay all filing fees for each contractor performing work on the contract, including a filing fee based on the contract price being paid for work performed by the primary contractor's employees. The filing fee payable shall be the sum of all fees calculated for each contractor. The filing fee shall be one percent of each contractor's contract price. The total filing fee payable by the primary contractor under this subsection may not exceed \$5,000. In this subsection, "contractor" means an employer who is using employees to perform work on the public construction contract under the contract or a subcontract.
- (b) Upon completion of all work on the public construction contract, the primary contractor shall file with the Department of Labor and Workforce Development a notice of completion together with payment of any additional filing fees owed due to increased contract amounts. Within 30 days after the department's receipt of the primary contractor's notice of completion, the department shall inform the contracting agency of the amount, if any, to be withheld from the final payment.
- (c) A contracting agency
  - (1) may release final payment of a public construction contract to the extent that the agency has received verification from the Department of Labor and Workforce Development that
    - (A) the primary contractor has complied with (a) and (b) of this section;
    - (B) the Department of Labor and Workforce Development is not conducting an investigation under this title; and
    - (C) the Department of Labor and Workforce Development has not issued a notice of a violation of this chapter to the primary contractor or any other contractors working on the public construction contract; and

- (2) shall withhold from the final payment an amount sufficient to pay the department's estimate of what may be needed to compensate the employees of any contractors under investigation on this construction contract, and any unpaid filing fees.
- (d) The notice and filing fee required under (a) of this section may be filed after work has begun if
  - (1) The public construction contract is for work undertaken in immediate response to an emergency; and
  - (2) The notice and fees are filed not later than 14 days after the work has begun.
- (e) A false statement made on a notice required by this section is punishable under AS 11.56.210.

**Sec. 36.05.060. Penalty for violation of this chapter.**

A contractor who violates this chapter is guilty of a misdemeanor and upon conviction is punishable by a fine of not less than \$100 nor more than \$1,000, or by imprisonment for not less than 10 days nor more than 90 days, or by both. Each day a violation exists constitutes a separate offense.

**Sec. 36.05.070. Wage rates in specifications and contracts for public works.**

- (a) The advertised specifications for a public construction contract that requires or involves the employment of mechanics, laborers, or field surveyors must contain a provision stating the minimum wages to be paid various classes of laborers, mechanics, or field surveyors and that the rate of wages shall be adjusted to the wage rate under AS 36.05.010.
- (b) Repealed by §17 ch 142 SLA 1972.
- (c) A public construction contract under (a) of this section must contain provisions that
  - (1) the contractor or subcontractors of the contractor shall pay all employees unconditionally and not less than once a week;
  - (2) wages may not be less than those stated in the advertised specifications, regardless of the contractual relationship between the contractor or subcontractors and laborers, mechanics, or field surveyors;
  - (3) the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work;
  - (4) the state or a political subdivision shall withhold so much of the accrued payments as is necessary to pay to laborers, mechanics, or field surveyors employed by the contractor or subcontractors the difference between
    - (A) the rates of wages required by the contract to be paid laborers, mechanics, or field surveyors on the work; and
    - (B) the rates of wages in fact received by laborers, mechanics, or field surveyors.

**Sec. 36.05.080. Failure to pay agreed wages.**

Every contract within the scope of AS 36.05.070 shall contain a provision that if it is found that a laborer, mechanic, or field surveyor employed by the contractor or subcontractor has been or is being paid a rate of wages less than the rate of wages required by the contract to be paid, the state or its political subdivision may, by written notice to the contractor, terminate the contractor's right to proceed with the work or the part of the work for which there is a failure to pay the required wages and to prosecute the work to completion by contract or otherwise, and the contractor and the contractor's sureties are liable to the state or its political subdivision for excess costs for completing the work.

**Sec. 36.05.090. Payment of wages from withheld payments and listing contractors who violate contracts.**

- (a) The state disbursing officer in the case of a state public construction contract and the local fiscal officer in the case of a political subdivision public construction contract shall pay directly to laborers, mechanics, or field surveyors from accrued payments withheld under the terms of the contract the wages due laborers, mechanics, or field surveyors under AS 36.05.070.
- (b) The state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees. A person appearing on this list and a firm, corporation, partnership, or association in which the person has an interest may not work as a contractor or

subcontractor on a public construction contract for the state or a political subdivision of the state until three years after the date of publication of the list. If the accrued payments withheld under the contract are insufficient to reimburse all the laborers, mechanics, or field surveyors with respect to whom there has been a failure to pay the wages required under AS 36.05.070, the laborers, mechanics, or field surveyors have the right of action or intervention or both against the contractor and the contractor's sureties conferred by law upon persons furnishing labor or materials, and in the proceedings it is not a defense that the laborers, mechanics, or field surveyors accepted or agreed to accept less than the required rate of wages or voluntarily made refunds.

**Sec. 36.05.900. Definition.**

In this chapter, "contracting agency" means the state or a political subdivision of the state that has entered into a public construction contract with a contractor.

**EXCERPTS FROM ALASKA ADMINISTRATIVE CODE**

\*\*\***Notice:** Regulations relating to board and lodging and per diem went into effect on November 25, 2018. The new regulations are excerpted here\*\*\*

**8 AAC 30.051. Purpose.** The purpose of 8 AAC 30.052 – 8 AAC 30.056 is to ensure that wages paid to laborers, mechanics, and field surveyors do not fall below the prevailing rate of pay.

**8 AAC 30.052. Board and lodging; remote sites.** (a) A contractor on a public construction project located 65 or more road miles from the international airport closest to the project area in either Fairbanks, Juneau, or Anchorage, or that is inaccessible by road in a two-wheel drive vehicle, shall provide adequate board and lodging to each laborer, mechanic, or field surveyor while the person is employed on the project. If commercial lodging facilities are not available, the contractor shall provide temporary lodging facilities. Lodging facilities must comply with all applicable state and federal laws. For a highway project, the location of the project is measured from the midpoint of the project.

(b) A contractor is not required to provide board and lodging:

(1) to a laborer, mechanic, or field surveyor who is a domiciled resident of the project area; or

(2) on a laborer, mechanic, or field surveyor's scheduled days off, when the person can reasonably travel between the project and the person's permanent residence; for the purposes of this paragraph, "scheduled day off" means a day in which a person does not perform work on-site, is not required to remain at or near the job location for the benefit of the contractor, and is informed of the day off at least seven days before the day off.

(c) Upon a contractor's written request, the commissioner may waive the requirements of (a) of this section where:

(1) the project is inaccessible by road in a two-wheel drive vehicle, but the laborer, mechanic, or field surveyor can reasonably travel between the project and the person's permanent residence within one hour; or

(2) a laborer, mechanic, or field surveyor is not a domiciled resident of the project area, but has established permanent residence, with the intent to remain indefinitely, within 65 road miles of the project, or for a highway project, the mid-point of the project.

**8 AAC 30.054. Per diem instead of board and lodging.** (a) A contractor may pay a laborer, mechanic, or field surveyor per diem instead of providing board and lodging, when the following conditions are met:

(1) the department determines that per diem instead of board and lodging is an established practice for the work classification; the department shall publish and periodically revise its determinations in the pamphlet *Laborers and Mechanics Minimum Rates of Pay*;

(2) the contractor pays each laborer, mechanic, or field surveyor the appropriate per diem rate as published and periodically revised in the pamphlet *Laborers and Mechanics Minimum Rates of Pay*; and

(3) the contractor pays the per diem to each laborer, mechanic, or field surveyor on the same day that wages are paid.

(b) A contractor may not pay per diem instead of board and lodging on a highway project located

- (1) west of Livengood on the Elliot Highway, AK-2;
- (2) on the Dalton Highway, AK-11;
- (3) north of milepost 20 on the Taylor Highway, AK-5;
- (4) east of Chicken on the Top of the World Highway; or
- (5) south of Tetlin Junction to the Alaska-Canada border on the Alaska Highway, AK-2.

**8 AAC 30.056. Alternative arrangement.** Upon a contractor’s written request, the commissioner may approve an alternative board and lodging or per diem arrangement, provided

- (1) the arrangement does not reduce the laborer, mechanic, or field surveyor’s wages below the prevailing wage rate; and
- (2) the laborer, mechanic, or field surveyor voluntarily enters into and signs the written arrangement; a labor organization representing laborers, mechanics, or field surveyors may enter into the written agreement on their behalf.

**8 AAC 30.900. General definitions** (selected excerpts only):

In this chapter and in AS 36

(22) “domiciled resident” means a person living within 65 road miles of a public construction project, or in the case of a highway project, the mid-point of the project, for at least 12 consecutive months prior to the award of the public construction project;

(23) “employed on the project” means the time period from the date the laborer, mechanic, or field surveyor first reports on-site to the project through the final date the person reports on-site to the project.

## **ADDITIONAL INFORMATION**

### **PER DIEM**

**Notice:** New regulations relating to board and lodging and per diem went into effect on November 25, 2018. The regulations provide a comprehensive set of requirements for the provision of board and lodging or per diem for workers on remote projects. Please refer to Alaska Administrative Code 8 AAC Chapter 30 and read the chapter carefully.

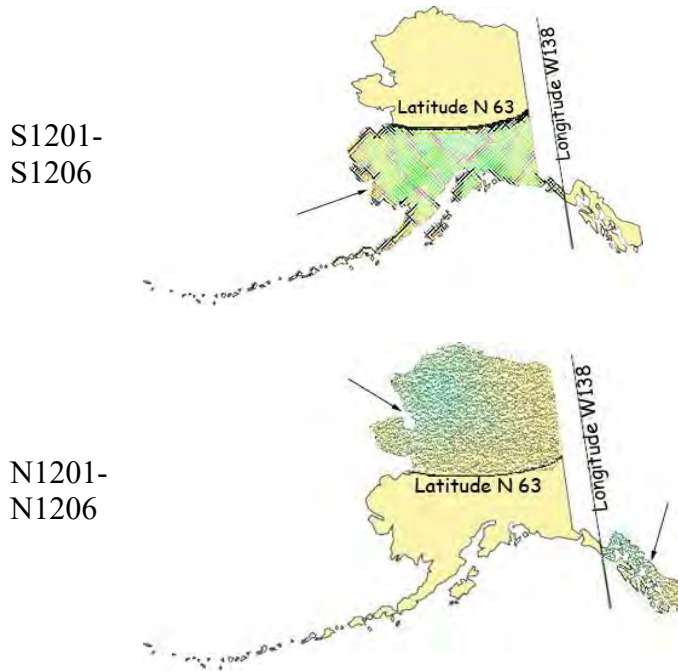
The Alaska Department of Labor and Workforce Development has determined that per diem is an established work practice for certain work classifications. These classifications are indicated throughout the Pamphlet by an asterisk (\*) under the classification title. If all of the conditions of 8 AAC 30.054 are met, an employer may pay workers in these classifications per diem instead of providing board and lodging on a remote project.

**Per Diem Rate:** As of May 1<sup>st</sup>, 2019, the minimum per diem rate is \$100.00 per day, or part thereof, the worker is employed on the project. In the event that a contractor provides lodging facilities, but no meals, the department will accept a payment of \$48 per day for meals to meet the per diem requirements.



**LABORER CLASSIFICATION CLARIFICATION**

The laborer rates categorized in class code S1201-S1206 apply in one area of Alaska; the area that is south of N63 latitude and west of W138 Longitude. The laborer rates categorized in class code N1201-N1206 apply in two areas of Alaska; the Alaska areas north of N63 latitude and east of W138 longitude. The following graphic representations should assist with clarifying the applicable wage rate categories:



**APPRENTICE RATES**

Apprentice rates at less than the minimum prevailing rates may be paid to apprentices according to an apprentice program which has been registered and approved by the Commissioner of the Alaska Department of Labor and Workforce Development in writing or according to a bona fide apprenticeship program registered with the U.S. Department of Labor, Office of Apprenticeship Training. **Any employee listed on a payroll at an apprentice wage rate who is not registered as above shall be paid the journeyman prevailing minimum wage in that work classification.** Wage rates are based on prevailing crew makeup practices in Alaska and apply to work performed regardless of either the quality of the work performed by the employee or the titles or classifications which may be assigned to individual employees.

**FRINGE BENEFIT PLANS**

Contractors/subcontractors may compensate fringe benefits to their employees in any one of three methods. The fringe benefits may be paid into a union trust fund, into an approved benefit plan, or paid directly on the paycheck as gross wages.

Where fringe benefits are paid into approved plans, funds, or programs including union trust funds, the payments must be contributed at least monthly. If contractors submit their own payroll forms and are paying fringe benefits into approved plans, funds, or programs, the employer’s certification must include, in addition to those requirements of 8 AAC 30.020(c), a statement that fringe benefit payments have been or will be paid at least monthly. Contractors who pay fringe benefits to a plan must ensure the plan is one approved by the Internal Revenue Service and that the plan meets the requirements of 8 AAC 30.025 (eff. 3/2/08) in order for payments to be credited toward the prevailing wage obligation.

**SPECIAL PREVAILING WAGE RATE DETERMINATION**

Special prevailing wage rate determinations may be requested for special projects or a special worker classification if the work to be performed does not conform to traditional public construction for which a prevailing wage rate has been established under 8 AAC 30.050(a) of this section. Requests for special wage rate determinations must be in writing and filed with the Commissioner at least 30 days before the award of the contract. An applicant for a special wage rate determination shall have the responsibility to support the necessity for the special rate. An application for a special wage rate determination filed under this section must contain:

- (1) a specification of the contract or project on which the special rates will apply and a description of the work to be performed;
- (2) a brief narrative explaining why special wage rates are necessary;
- (3) the job class or classes involved;
- (4) the special wage rates the applicant is requesting, including survey or other relevant wage data to support the requested rates;
- (5) the approximate number of employees who would be affected; and
- (6) any other information which might be helpful in determining if special wage rates are appropriate.

Requests made pursuant to the above should be addressed to:

Director  
Alaska Department of Labor and Workforce Development  
Labor Standards and Safety Division  
Wage and Hour  
P.O. Box 111149  
Juneau, AK 99811-1149

-or-

Email: [statewide.wagehour@alaska.gov](mailto:statewide.wagehour@alaska.gov)

**EMPLOYMENT PREFERENCE INFORMATION**

In October 2019, the Alaska Attorney General issued a formal opinion stating that the Alaska Statutes 36.10.150 of the State’s 90% Employment Preference law, also known as the Alaska Resident Hire law, violates both the U.S. and Alaska Constitutions. As a result, the state has stopped all enforcement activity. A copy of the Attorney General opinion is found here:

[http://law.alaska.gov/pdf/opinions/opinions\\_2019/19-005\\_AK-hire.pdf](http://law.alaska.gov/pdf/opinions/opinions_2019/19-005_AK-hire.pdf)

**Alaska Department of Labor and Workforce Development**  
**Labor Standards and Safety Division**  
**Wage and Hour**  
Web site: <http://labor.state.ak.us/lss/pamp600.htm>

**Anchorage**

1251 Muldoon Road, Suite 113  
Anchorage, Alaska 99504-2098  
Phone: (907) 269-4900

Email:  
statewide.wagehour@alaska.gov

**Juneau**

PO Box 111149  
Juneau, Alaska 99811  
Phone: (907) 465-4842

Email:  
statewide.wagehour@alaska.gov

**Fairbanks**

Regional State Office Building  
675 7<sup>th</sup> Ave., Station J-1  
Fairbanks, Alaska 99701-4593  
Phone: (907) 451-2886

Email:  
statewide.wagehour@alaska.gov

**LABOR STANDARDS AND SAFETY NOTICE REQUESTS**

If you would like to receive Wage and Hour or Mechanical Inspection **regulation notices** or **publications information**, they are available via electronic mail, by signing up in the GovDelivery System, <https://public.govdelivery.com/accounts/AKDOL/subscriber/new> and selecting topics *LSS – Wage and Hour – Forms and Publications*, *LSS – Mechanical Inspection Regulations*, or *LSS – Wage and Hour Regulations*.

*Publications* are also available online at <http://labor.alaska.gov/lss/home.htm>

**DEBARMENT LIST**

**AS 36.05.090(b)** states that “the state disbursing officer or the local fiscal officer shall distribute to all departments of the state government and to all political subdivisions of the state a list giving the names of persons who have disregarded their obligations to employees.”

A person appearing on the following debarment list and a firm, corporation, partnership, or association in which the person has an interest may not work as a contractor or subcontractor on a public construction contract for the state or a political subdivision of the state for three years from the date of debarment.

Company Name

Debarment Expires

No companies are currently debarred.

# Laborers' & Mechanics' Minimum Rates of Pay

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other Benefits	THR
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## Boilermakers

\*See per diem note on last page

<b>A0101</b>	Boilermaker (journeyman)	46.97	8.57	18.08	1.90	VAC 4.25 SAF 0.34	80.11
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## Bricklayers & Blocklayers

\*See per diem note on last page

<b>A0201</b>	Blocklayer	42.01	9.00	10.20	0.62	L&M 0.20	62.03
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Bricklayer  
Marble or Stone Mason  
Refractory Worker (Firebrick, Plastic, Castable, and Gunitite Refractory Applications)  
Terrazzo Worker  
Tile Setter

<b>A0202</b>	Tuck Pointer Caulker	42.01	9.00	10.20	0.62	L&M 0.20	62.03
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Cleaner (PCC)

<b>A0203</b>	Marble & Tile Finisher	35.84	9.00	10.20	0.62	L&M 0.20	55.86
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Terrazzo Finisher

<b>A0204</b>	Torginal Applicator	35.84	9.00	10.20	0.62	L&M 0.20	55.86
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## Carpenters, Region I (North of 63 latitude)

\*See per diem note on last page

<b>N0301</b>	Carpenter (journeyman)	43.34	10.35	15.82	1.75	L&M 0.20 SAF 0.20	71.66
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Lather/Drywall/Acoustical

## Carpenters, Region II (South of N63 latitude)

\*See per diem note on last page

<b>S0301</b>	Carpenter (journeyman)	43.34	10.35	16.36	1.75	L&M 0.20 SAF 0.20	72.20
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Lather/Drywall/Acoustical

## Cement Masons

\*See per diem note on last page

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Cement Masons**  
 \*See per diem note on last page

						L&M	
<b>A0401</b>	Group I, including:	40.13	8.70	11.80	1.43	0.10	62.16
	Application of Sealing Compound						
	Application of Underlayment						
	Building, General						
	Cement Finisher						
	Cement Mason (journeyman)						
	Concrete						
	Concrete Paving						
	Concrete Polishing						
	Concrete Repair						
	Curb & Gutter, Sidewalk						
	Curing of All Concrete						
	General Concrete Pour Tender						
	Grouting & Caulking of Tilt-Up Panels						
	Grouting of All Plates						
	Patching Concrete						
	Screed Pin Setter						
	Screeder or Rodder						
	Spackling/Skim Coating						

<b>A0402</b>	Group II, including:	40.13	8.70	11.80	1.43	0.10	62.16
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Form Setter

						L&M	
<b>A0403</b>	Group III, including:	40.13	8.70	11.80	1.43	0.10	62.16

- Concrete Saw Cutter Operator (All Control Joints and Self-powered)
- Curb & Gutter Machine
- Floor Grinder
- Pneumatic Power Tools
- Power Chipping & Bushing
- Sand Blasting Architectural Finish
- Screed & Rodding Machine Operator
- Troweling Machine Operator (all concrete surfaces)

						L&M	
<b>A0404</b>	Group IV, including:	40.13	8.70	11.80	1.43	0.10	62.16

- Acoustical or Imitation Acoustical Finish
- Application of All Composition Mastic
- Application of All Epoxy Material
- Application of All Plastic Material
- Finish Colored Concrete
- Gunite Nozzleman
- Hand Powered Grinder

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Cement Masons**  
\*See per diem note on last page

<b>A0404</b>	Group IV, including:	40.13	8.70	11.80	1.43		<b>L&amp;M</b> 0.10	62.16
	Preparing, scratching and browsing of all ceilings and walls, finished with terrazo or tile							
	Tunnel Worker							

<b>A0405</b>	Group V, including:	40.13	8.70	11.80	1.43		<b>L&amp;M</b> 0.10	62.16
	Casting and finishing							
	EIFS Systems							
	Finishing of all interior and exterior plastering							
	Fireproofing (Pryocrete, Cafco, Albi-Clad, sprayed fiberglass)							
	Gypsum, Portland Cement							
	Kindred material and products							
	Operation and control of all types of plastering machines, including power tools and floats, used by the industry							
	Overcoating and maintenance of interior/exterior plaster surfaces							
	Plasterer							
	Veneer plastering process (Rapid Plaster, U.S.G. "Imperial Systems", and Pabcoat Systems")							
	Venetian plaster and color-integrated Italian/Middle-Eastern line plaster							

**Culinary Workers**

<b>A0501</b>	Baker/Cook	29.12	7.31	8.68			<b>LEG</b>	45.11
<b>A0503</b>	General Helper	25.82	7.31	8.68			<b>LEG</b>	41.81
	Housekeeper							
	Janitor							
	Kitchen Helper							
<b>A0504</b>	Head Cook	29.72	7.31	8.68			<b>LEG</b>	45.71
<b>A0505</b>	Head Housekeeper	26.20	7.31	8.68			<b>LEG</b>	42.19
	Head Kitchen Help							

**Dredgemen**  
\*See per diem note on last page

<b>A0601</b>	Assistant Engineer	42.76	11.05	13.75	1.00		<b>L&amp;M</b> 0.10 0.05	68.71
	Craneman							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	L&M	Other Benefits	THR
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**Dredgemen**  
\*See per diem note on last page

<b>A0601</b>	Assistant Engineer	42.76	11.05	13.75	1.00	0.10	0.05	68.71
	Electrical Generator Operator (primary pump/power barge/dredge)							
	Engineer							
	Welder							
<b>A0602</b>	Assistant Mate (deckhand)	41.60	11.05	13.75	1.00	0.10	0.05	67.55
<b>A0603</b>	Fireman	42.04	11.05	13.75	1.00	0.10	0.05	67.99
<b>A0605</b>	Leverman Clamshell	45.29	11.05	13.75	1.00	0.10	0.05	71.24
<b>A0606</b>	Leverman Hydraulic	43.53	11.05	13.75	1.00	0.10	0.05	69.48
<b>A0607</b>	Mate & Boatman	42.76	11.05	13.75	1.00	0.10	0.05	68.71
<b>A0608</b>	Oiler (dredge)	42.04	11.05	13.75	1.00	0.10	0.05	67.99

**Electricians**  
\*See per diem note on last page

<b>A0701</b>	Inside Cable Splicer	42.77	14.23	13.92	0.95	0.20	0.15	72.22
<b>A0702</b>	Inside Journeyman Wireman, including: Technicians (including use of drones in electrical construction)	42.44	14.23	14.16	0.95	0.20	0.15	72.13
<b>A0703</b>	Power Cable Splicer	63.04	14.23	19.08	0.95	0.25	0.15	97.70
<b>A0704</b>	Tele Com Cable Splicer	50.53	14.23	17.17	0.95	0.20	0.15	83.23
<b>A0705</b>	Power Journeyman Lineman, including: Power Equipment Operator Technician (including use of drones in electrical construction)	61.29	14.23	19.03	0.95	0.25	0.15	95.90
<b>A0706</b>	Tele Com Journeyman Lineman, including: Technician (including use of drones in telecommunications construction) Tele Com Equipment Operator	48.78	14.23	17.11	0.95	0.20	0.15	81.42

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Electricians**  
\*See per diem note on last page

<b>A0707</b>	Straight Line Installer - Repairman	48.78	14.23	17.11	0.95	<b>L&amp;M</b>	<b>LEG</b>	81.42
<b>A0708</b>	Powderman	59.29	14.23	18.97	0.95	<b>L&amp;M</b>	<b>LEG</b>	93.84
<b>A0710</b>	Material Handler	26.57	13.92	5.80	0.15	<b>L&amp;M</b>	<b>LEG</b>	46.74
<b>A0712</b>	Tree Trimmer Groundman	29.12	14.23	13.35	0.15	<b>L&amp;M</b>	<b>LEG</b>	57.15
<b>A0713</b>	Journeyman Tree Trimmer	38.05	14.23	13.62	0.15	<b>L&amp;M</b>	<b>LEG</b>	66.35
<b>A0714</b>	Vegetation Control Sprayer	41.60	14.23	13.73	0.15	<b>L&amp;M</b>	<b>LEG</b>	70.01
<b>A0715</b>	Inside Journeyman Communications CO/PBX	41.02	14.23	13.87	0.95	<b>L&amp;M</b>	<b>LEG</b>	70.42

**Elevator Workers**  
\*See per diem note on last page

<b>A0802</b>	Elevator Constructor	44.21	16.02	20.21	0.65	<b>L&amp;M</b>	<b>VAC</b>	86.59
<b>A0803</b>	Elevator Constructor Mechanic	63.16	16.02	20.21	0.65	<b>L&amp;M</b>	<b>VAC</b>	107.65

**Heat & Frost Insulators/Asbestos Workers**  
\*See per diem note on last page

<b>A0902</b>	Asbestos Abatement-Mechanical Systems	40.32	9.24	11.12	1.20	<b>IAF</b>	<b>LML</b>	62.07
<b>A0903</b>	Asbestos Abatement/General Demolition All Systems	40.32	9.24	11.12	1.20	<b>IAF</b>	<b>LML</b>	62.07
<b>A0904</b>	Insulator, Group II	40.32	9.24	11.12	1.20	<b>IAF</b>	<b>LML</b>	62.07
<b>A0905</b>	Fire Stop	40.32	9.24	11.12	1.20	<b>IAF</b>	<b>LML</b>	62.07

**IronWorkers**  
\*See per diem note on last page

<b>A1101</b>	Ironworkers, including:	41.49	9.91	24.95	0.77	<b>L&amp;M</b>	<b>IAF</b>	77.56
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Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation



**IronWorkers**  
 \*See per diem note on last page

						L&M	IAF	
<b>A1101</b>	Ironworkers, including:	41.49	9.91	24.95	0.77	0.20	0.24	77.56
	Bender Operators							
	Bridge & Structural							
	Hangar Doors							
	Hollow Metal Doors							
	Industrial Doors							
	Machinery Mover							
	Ornamental							
	Reinforcing							
	Rigger							
	Sheeter							
	Signalman							
	Stage Rigger							
	Toxic Haz-Mat Work							
	Welder							

						L&M	IAF	
<b>A1102</b>	Helicopter	42.49	9.91	24.95	0.77	0.20	0.24	78.56
	Helicopter (used for rigging and setting)							
	Tower (energy producing windmill type towers to include nacelle and blades)							

						L&M	IAF	
<b>A1103</b>	Fence/Barrier Installer	37.99	9.91	24.95	0.77	0.20	0.24	74.06

						L&M	IAF	
<b>A1104</b>	Guard Rail Layout Man	38.73	9.91	24.95	0.77	0.20	0.24	74.80

						L&M	IAF	
<b>A1105</b>	Guard Rail Installer	38.99	9.91	24.95	0.77	0.20	0.24	75.06

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**  
 \*See per diem note on last page

						L&M	LEG	
<b>N1201</b>	Group I, including:	33.00	8.95	21.16	1.40	0.20	0.20	64.91
	Asphalt Worker (shovelman, plant crew)							
	Brush Cutter							
	Camp Maintenance Laborer							
	Carpenter Tender or Helper							
	Choke Setter, Hook Tender, Rigger, Signalman							
	Concrete Labor (curb & gutter, chute handler, curing, grouting, screeding)							
	Crusher Plant Laborer							
	Demolition Laborer							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**  
 \*See per diem note on last page

						<b>L&amp;M</b>	<b>LEG</b>	
<b>N1201</b>	Group I, including:	33.00	8.95	21.16	1.40	0.20	0.20	64.91
	Ditch Digger							
	Dumpman							
	Environmental Laborer (hazard/toxic waste, oil spill)							
	Fence Installer							
	Fire Watch Laborer							
	Flagman							
	Form Stripper							
	General Laborer							
	Guardrail Laborer, Bridge Rail Installer							
	Hydro-seeder Nozzleman							
	Laborer, Building							
	Landscaper or Planter							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work)							
	Material Handler							
	Pneumatic or Power Tools							
	Portable or Chemical Toilet Serviceman							
	Pump Man or Mixer Man							
	Railroad Track Laborer							
	Sandblast, Pot Tender							
	Saw Tender							
	Slurry Work							
	Steam Cleaner Operator							
	Steam Point or Water Jet Operator							
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)							
	Tank Cleaning							
	Utiliwalk & Utilidor Laborer							
	Watchman (construction projects)							
	Window Cleaner							

						<b>L&amp;M</b>	<b>LEG</b>	
<b>N1202</b>	Group II, including:	34.00	8.95	21.16	1.40	0.20	0.20	65.91
	Burning & Cutting Torch							
	Cement or Lime Dumper or Handler (sack or bulk)							
	Certified Erosion Sediment Control Lead (CESCL Laborer)							
	Choker Splicer							
	Chucktender (wagon, air-track & hydraulic drills)							
	Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman)							
	Culvert Pipe Laborer							
	Cured Inplace Pipelayer							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**  
 \*See per diem note on last page

						<b>L&amp;M</b>	<b>LEG</b>	
<b>N1202</b> Group II, including:	34.00	8.95	21.16	1.40	0.20	0.20	65.91	
Environmental Laborer (asbestos, marine work)								
Floor Preparation, Core Drilling								
Foam Gun or Foam Machine Operator								
Green Cutter (dam work)								
Gunite Operator								
Hod Carrier								
Jackhammer/Chipping Gun or Pavement Breaker								
Laser Instrument Operator								
Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)								
Mason Tender & Mud Mixer (sewer work)								
Pilot Car								
Pipelayer Helper								
Plasterer, Bricklayer & Cement Finisher Tender								
Powderman Helper								
Power Saw Operator								
Railroad Switch Layout Laborer								
Sandblaster								
Scaffold Building & Erecting								
Sewer Caulker								
Sewer Plant Maintenance Man								
Thermal Plastic Applicator								
Timber Faller, Chainsaw Operator, Filer								
Timberman								
<b>N1203</b> Group III, including:	34.90	8.95	21.16	1.40	0.20	0.20	66.81	
Bit Grinder								
Camera/Tool/Video Operator								
Guardrail Machine Operator								
High Rigger & Tree Topper								
High Scaler								
Multiplate								
Plastic Welding								
Slurry Seal Squeegee Man								
Traffic Control Supervisor								
Welding Certified (in connection with laborer's work)								
<b>N1204</b> Group IIIA	38.18	8.95	21.16	1.40	0.20	0.20	70.09	
Asphalt Raker, Asphalt Belly Dump Lay Down								
Drill Doctor (in the field)								

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**

\*See per diem note on last page

						L&M	LEG	
<b>N1204</b>	Group IIIA	38.18	8.95	21.16	1.40	0.20	0.20	70.09

- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)
- Pioneer Drilling & Drilling Off Tugger (all type drills)
- Pipelayers
- Powderman (Employee Possessor)
- Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)
- Traffic Control Supervisor, DOT Qualified

						L&M	LEG	
<b>N1205</b>	Group IV	22.57	8.95	21.16	1.40	0.20	0.20	54.48

- Final Building Cleanup
- Permanent Yard Worker

						L&M	LEG	
<b>N1206</b>	Group IIIB	41.97	6.24	21.16	1.40	0.20	0.20	71.17

- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)
- Federal Powderman (Responsible Person in Charge)
- Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)
- Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)
- Stake Hopper

**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*See per diem note on last page

						L&M	LEG	
<b>S1201</b>	Group I, including:	33.00	8.95	21.16	1.40	0.20	0.20	64.91

- Asphalt Worker (shovelman, plant crew)
- Brush Cutter
- Camp Maintenance Laborer
- Carpenter Tender or Helper
- Choke Setter, Hook Tender, Rigger, Signalman
- Concrete Labor (curb & gutter, chute handler, curing, grouting, screeding)
- Crusher Plant Laborer
- Demolition Laborer
- Ditch Digger
- Dumpman
- Environmental Laborer (hazard/toxic waste, oil spill)
- Fence Installer
- Fire Watch Laborer
- Flagman

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The area that is south of N63 latitude and west of W138 longitude)**  
 \*See per diem note on last page

						<b>L&amp;M</b>	<b>LEG</b>	
<b>S1201</b>	Group I, including:	33.00	8.95	21.16	1.40	0.20	0.20	64.91
	Form Stripper							
	General Laborer							
	Guardrail Laborer, Bridge Rail Installer							
	Hydro-seeder Nozzleman							
	Laborer, Building							
	Landscaper or Planter							
	Laying of Mortarless Decorative Block (retaining walls, flowered decorative block 4 feet or less - highway or landscape work)							
	Material Handler							
	Pneumatic or Power Tools							
	Portable or Chemical Toilet Serviceman							
	Pump Man or Mixer Man							
	Railroad Track Laborer							
	Sandblast, Pot Tender							
	Saw Tender							
	Slurry Work							
	Steam Cleaner Operator							
	Steam Point or Water Jet Operator							
	Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)							
	Tank Cleaning							
	Utiliwalk & Utilidor Laborer							
	Watchman (construction projects)							
	Window Cleaner							

						<b>L&amp;M</b>	<b>LEG</b>	
<b>S1202</b>	Group II, including:	34.00	8.95	21.16	1.40	0.20	0.20	65.91
	Burning & Cutting Torch							
	Cement or Lime Dumper or Handler (sack or bulk)							
	Certified Erosion Sediment Control Lead (CESCL Laborer)							
	Choker Splicer							
	Chucktender (wagon, air-track & hydraulic drills)							
	Concrete Laborer (power buggy, concrete saws, pumpcrete nozzleman, vibratorman)							
	Culvert Pipe Laborer							
	Cured Inplace Pipelayer							
	Environmental Laborer (asbestos, marine work)							
	Floor Preparation, Core Drilling							
	Foam Gun or Foam Machine Operator							
	Green Cutter (dam work)							
	Gunite Operator							
	Hod Carrier							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*See per diem note on last page

						<b>L&amp;M</b>	<b>LEG</b>	
<b>S1202</b>	Group II, including:	34.00	8.95	21.16	1.40	0.20	0.20	65.91

- Jackhammer/Chipping Gun or Pavement Breaker
- Laser Instrument Operator
- Laying of Mortarless Decorative Block (retaining walls, flowered decorative block over 4 feet - highway or landscape work)
- Mason Tender & Mud Mixer (sewer work)
- Pilot Car
- Pipelayer Helper
- Plasterer, Bricklayer & Cement Finisher Tender
- Powderman Helper
- Power Saw Operator
- Railroad Switch Layout Laborer
- Sandblaster
- Scaffold Building & Erecting
- Sewer Caulker
- Sewer Plant Maintenance Man
- Thermal Plastic Applicator
- Timber Faller, Chainsaw Operator, Filer
- Timberman

						<b>L&amp;M</b>	<b>LEG</b>	
<b>S1203</b>	Group III, including:	34.90	8.95	21.16	1.40	0.20	0.20	66.81

- Bit Grinder
- Camera/Tool/Video Operator
- Guardrail Machine Operator
- High Rigger & Tree Topper
- High Scaler
- Multiplate
- Plastic Welding
- Slurry Seal Squeegee Man
- Traffic Control Supervisor
- Welding Certified (in connection with laborer's work)

						<b>L&amp;M</b>	<b>LEG</b>	
<b>S1204</b>	Group IIIA	38.18	8.95	21.16	1.40	0.20	0.20	70.09

- Asphalt Raker, Asphalt Belly Dump Lay Down
- Drill Doctor (in the field)
- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)
- Pioneer Drilling & Drilling Off Tugger (all type drills)
- Pipelayers
- Powderman (Employee Possessor)
- Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Laborers (The area that is south of N63 latitude and west of W138 longitude)**

\*See per diem note on last page

<b>S1204</b>	Group IIIA	38.18	8.95	21.16	1.40	<b>L&amp;M</b>	<b>LEG</b>	70.09
	Traffic Control Supervisor, DOT Qualified					0.20	0.20	
<b>S1205</b>	Group IV	22.57	8.95	21.16	1.40	<b>L&amp;M</b>	<b>LEG</b>	54.48
	Final Building Cleanup Permanent Yard Worker					0.20	0.20	
<b>S1206</b>	Group IIIB	41.97	6.24	21.16	1.40	<b>L&amp;M</b>	<b>LEG</b>	71.17
	Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours) Federal Powderman (Responsible Person in Charge) Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones) Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours) Stake Hopper					0.20	0.20	

**Millwrights**

\*See per diem note on last page

<b>A1251</b>	Millwright (journeyman)	46.48	10.35	12.87	1.10	<b>L&amp;M</b>		71.25
						0.40	0.05	
<b>A1252</b>	Millwright Welder	47.48	10.35	12.87	1.10	<b>L&amp;M</b>		72.25
						0.40	0.05	

**Painters, Region I (North of N63 latitude)**

\*See per diem note on last page

<b>N1301</b>	Group I, including:	36.08	9.27	15.10	1.08	<b>L&amp;M</b>		61.60
	Brush General Painter Hand Taping Hazardous Material Handler Lead-Based Paint Abatement Roll					0.07		
<b>N1302</b>	Group II, including:	36.60	9.27	15.10	1.08	<b>L&amp;M</b>		62.12
	Bridge Painter Epoxy Applicator General Drywall Finisher Hand/Spray Texturing Industrial Coatings Specialist					0.07		

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Painters, Region I (North of N63 latitude)**  
 \*See per diem note on last page

<b>N1302</b>	Group II, including:	36.60	9.27	15.10	1.08		<b>L&amp;M</b> 0.07	62.12
	Machine/Automatic Taping							
	Pot Tender							
	Sandblasting							
	Specialty Painter							
	Spray							
	Structural Steel Painter							
	Wallpaper/Vinyl Hanger							

<b>N1304</b>	Group IV, including:	40.74	9.27	18.21	1.05		0.05	69.32
	Glazier							
	Storefront/Automatic Door Mechanic							

<b>N1305</b>	Group V, including:	39.44	9.27	5.00	1.10		0.10	54.91
	Carpet Installer							
	Floor Coverer							
	Heat Weld/Cove Base							
	Linoleum/Soft Tile Installer							

<b>N1306</b>	Group VI, including:	50.44	10.23	5.00	1.10		0.10	66.87
	Traffic Control Striper							

**Painters, Region II (South of N63 latitude)**  
 \*See per diem note on last page

<b>S1301</b>	Group I, including :	33.22	9.27	15.95	1.08		<b>L&amp;M</b> 0.07	59.59
	Brush							
	General Painter							
	Hand Taping							
	Hazardous Material Handler							
	Lead-Based Paint Abatement							
	Roll							
	Spray							

<b>S1302</b>	Group II, including :	34.47	9.27	15.95	1.08		<b>L&amp;M</b> 0.07	60.84
	General Drywall Finisher							
	Hand/Spray Texturing							
	Machine/Automatic Taping							
	Wallpaper/Vinyl Hanger							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation



Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	L&M	IAF	THR
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**Painters, Region II (South of N63 latitude)**

\*See per diem note on last page

<b>S1303</b>	Group III, including :	34.57	9.27	15.95	1.08		<b>L&amp;M</b> 0.07		60.94
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- Bridge Painter
- Epoxy Applicator
- Industrial Coatings Specialist
- Pot Tender
- Sandblasting
- Specialty Painter
- Structural Steel Painter

<b>S1304</b>	Group IV, including:	40.95	9.27	17.25	1.08		<b>L&amp;M</b> 0.07		68.62
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- Glazier
- Storefront/Automatic Door Mechanic

<b>S1305</b>	Group V, including:	39.44	9.27	5.00	1.10		<b>L&amp;M</b> 0.10		54.91
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- Carpet Installer
- Floor Coverer
- Heat Weld/Cove Base
- Linoleum/Soft Tile Installer

<b>S1306</b>	Group VI, including:	50.44	10.23	5.00	1.10		0.10		66.87
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- Traffic Control Striper

**Piledrivers**

\*See per diem note on last page

<b>A1401</b>	Piledriver	43.34	10.35	15.82	1.75		<b>L&amp;M</b> 0.20	<b>IAF</b> 0.20	71.66
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- Assistant Dive Tender
- Carpenter/Piledriver
- Rigger
- Sheet Stabber
- Skiff Operator

<b>A1402</b>	Piledriver-Welder/Toxic Worker	44.34	10.35	15.82	1.75		<b>L&amp;M</b> 0.20	<b>IAF</b> 0.20	72.66
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<b>A1403</b>	Remotely Operated Vehicle Pilot/Technician	47.65	10.35	15.82	1.75		<b>L&amp;M</b> 0.20	<b>IAF</b> 0.20	75.97
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- Single Atmosphere Suit, Bell or Submersible Pilot

<b>A1404</b>	Diver (working) **See note on last page	87.45	10.35	15.82	1.75		<b>L&amp;M</b> 0.20	<b>IAF</b> 0.20	115.77
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Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Piledrivers**  
\*See per diem note on last page

<b>A1405</b>	Diver (standby) **See note on last page	47.65	10.35	15.82	1.75	L&M	IAF	75.97
<b>A1406</b>	Dive Tender **See note on last page	46.65	10.35	15.82	1.75	L&M	IAF	74.97
<b>A1407</b>	Welder (American Welding Society, Certified Welding Inspector)	48.90	10.35	15.82	1.75	L&M	IAF	77.22

**Plumbers, Region I (North of N63 latitude)**  
\*See per diem note on last page

<b>N1501</b>	Journeyman Pipefitter	45.41	11.75	17.45	1.50	L&M	S&L	76.76
	Plumber							
	Welder							

**Plumbers, Region II (South of N63 latitude)**  
\*See per diem note on last page

<b>S1501</b>	Journeyman Pipefitter	41.00	11.88	15.27	1.55	L&M		69.90
	Plumber							
	Welder							

**Plumbers, Region IIA (1st Judicial District)**  
\*See per diem note on last page

<b>X1501</b>	Journeyman Pipefitter	41.32	13.37	11.75	2.50	L&M		69.18
	Plumber							
	Welder							

**Power Equipment Operators**  
\*See per diem note on last page

<b>A1601</b>	Group I, including:	43.53	11.05	13.75	1.00	L&M		69.48
	Asphalt Roller: Breakdown, Intermediate, and Finish							
	Back Filler							
	Barrier Machine (Zipper)							
	Belcrete with Power Pack & similar conveyors							
	Bending Machine							
	Boat Coxswain							
	Bulldozer							
	Cableways, Highlines & Cablecars							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Power Equipment Operators**

\*See per diem note on last page

	<b>L&amp;M</b>						
<b>A1601</b> Group I, including:	43.53	11.05	13.75	1.00	0.10	0.05	69.48
Cleaning Machine							
Coating Machine							
Concrete Hydro Blaster							
Cranes (45 tons & under or 150 feet of boom & under (including jib & attachments))							
(a) Hydralifts or Transporters, (all track or truck type)							
(b) Derricks							
(c) Overhead							
Crushers							
Deck Winches, Double Drum							
Ditching or Trenching Machine (16 inch or over)							
Drag Scraper, Yarder, and similar types							
Drilling Machines, Core, Cable, Rotary and Exploration							
Finishing Machine Operator, Concrete Paving, Laser Screed, Sidewalk, Curb & Gutter Machine							
Grade Checker and/or Line and Grade including Drone							
Helicopters							
Hover Craft, Flex Craft, Loadmaster, Air Cushion, All-Terrain Vehicle, Rollagon, Bargecable, Nodwell, & Snow Cat							
Hydro Ax, Feller Buncher & similar							
Hydro Excavation (Vac-Truck and Similar)							
Loaders (2 1/2 yards through 5 yards, including all attachments):							
(a) Forklifts (with telescopic boom & swing attachment)							
(b) Front End & Overhead, (2-1/2 yards through 5 yards)							
(c) Loaders, (with forks or pipe clamp)							
(d) Loaders, (elevating belt type, Euclid & similar types)							
Material Transfer Vehicle (Elevating Grader, Pickup Machine, and similar types)							
Mechanic, Welder, Bodyman, Electrical, Camp & Maintenance Engineer							
Micro Tunneling Machine							
Mixers: Mobile type with hoist combination							
Motor Patrol Grader							
Mucking Machine: Mole, Tunnel Drill, Horizontal/Directional Drill Operator and/or Shield							
Off-Road Hauler (including Articulating and Haul Trucks)							
Operator on Dredges							
Piledriver Engineer, L.B. Foster, Puller or similar paving breaker							
Plant Operator (Asphalt & Concrete)							
Power Plant, Turbine Operator 200 k.w & over (power plants or combination of power units over 300 k.w.)							
Remote Controlled Equipment							
Scraper (through 40 yards)							

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<b>Power Equipment Operators</b>								
*See per diem note on last page								

		L&M						
<b>A1601</b>	Group I, including:	43.53	11.05	13.75	1.00	0.10	0.05	69.48
	Service Oiler/Service Engineer							
	Shot Blast Machine							
	Shovels, Backhoes, Excavators with all attachments, and Gradealls (3 yards & under)							
	Sideboom (under 45 tons)							
	Sub Grader (Gurries & similar types)							
	Tack Tractor							
	Truck Mounted Concrete Pump, Conveyor/Tele-belt, & Creter							
	Wate Kote Machine							

		L&M						
<b>A1602</b>	Group IA, including:	45.29	11.05	13.75	1.00	0.10	0.05	71.24
	Camera/Tool/Video Operator (Slipline)							
	Certified Welder, Electrical Mechanic, Camp Maintenance Engineer, Mechanic (over 10,000 hours)							
	Cranes (over 45 tons or 150 feet including jib & attachments)							
	(a) Clamshells & Draglines (over 3 yards)							
	(b) Tower Cranes							
	Licensed Water/Waste Water Treatment Operator							
	Loaders (over 5 yards)							
	Motor Patrol Grader, Dozer, Grade Tractor (finish: when finishing to final grade and/or to hubs, or for asphalt)							
	Power Plants (1000 k.w. & over)							
	Profiler, Reclaimer, and Roto-Mill							
	Quad							
	Scrapers (over 40 yards)							
	Screed							
	Shovels, Backhoes, Excavators with all attachments (over 3 yards)							
	Sidebooms (over 45 tons)							
	Slip Form Paver, C.M.I. & similar types							
	Topside (Asphalt Paver, Slurry machine, Spreaders, and similar types)							

		L&M						
<b>A1603</b>	Group II, including:	42.76	11.05	13.75	1.00	0.10	0.05	68.71
	Boiler - Fireman							
	Cement Hogs & Concrete Pump Operator							
	Conveyors (except those listed in Group I)							
	Hoists on Steel Erection, Towermobiles & Air Tuggers							
	Horizontal/Directional Drill Locator							
	Locomotives, Rod & Geared Engines							
	Mixers							
	Screening, Washing Plant							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Power Equipment Operators**  
 \*See per diem note on last page

		<b>L&amp;M</b>						
<b>A1603</b>	Group II, including:	42.76	11.05	13.75	1.00	0.10	0.05	68.71
	Sideboom (cradling rock drill, regardless of size)							
	Skidder							
	Trenching Machines (under 16 inches)							
	Water/Waste Water Treatment Operator							

		<b>L&amp;M</b>						
<b>A1604</b>	Group III, including:	42.04	11.05	13.75	1.00	0.10	0.05	67.99
	"A" Frame Trucks, Deck Winches							
	Bombardier (tack or tow rig)							
	Boring Machine							
	Brooms, Power (sweeper, elevator, vacuum, or similar)							
	Bump Cutter							
	Compressor							
	Farm Tractor							
	Forklift, Industrial Type							
	Gin Truck or Winch Truck (with poles when used for hoisting)							
	Hoists, Air Tuggers, Elevators							
	Loaders:							
	(a) Elevating-Athey, Barber Greene & similar types							
	(b) Forklifts or Lumber Carrier (on construction job sites)							
	(c) Forklifts, (with tower)							
	(d) Overhead & Front End, (under 2-1/2 yards)							
	Locomotives: Dinkey (air, steam, gas & electric) Speeders							
	Mechanics, Light Duty							
	Oil, Blower Distribution							
	Posthole Digger, Mechanical							
	Pot Fireman (power agitated)							
	Power Plant, Turbine Operator, (under 200 k.w.)							
	Pumps, Water							
	Roller (other than Asphalt)							
	Saws, Concrete							
	Skid Hustler							
	Skid Steer (with all attachments)							
	Stake Hopper							
	Straightening Machine							
	Tow Tractor							

		<b>L&amp;M</b>						
<b>A1605</b>	Group IV, including:	35.83	11.05	13.75	1.00	0.10	0.05	61.78
	Crane Assistant Engineer/Rig Oiler							
	Drill Helper							
	Parts & Equipment Coordinator							

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

Class Code	Classification of Laborers & Mechanics	BHR	H&W	PEN	TRN	Other	Benefits	THR
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**Power Equipment Operators**  
 \*See per diem note on last page

		L&M						
<b>A1605</b>	Group IV, including:	35.83	11.05	13.75	1.00	0.10	0.05	61.78
	Spotter							
	Steam Cleaner							
	Swamper (on trenching machines or shovel type equipment)							

**Roofers**  
 \*See per diem note on last page

		L&M						
<b>A1701</b>	Roofer & Waterproofer	44.62	13.75	3.91	0.81	0.10	0.06	63.25

		L&M						
<b>A1702</b>	Roofer Material Handler	31.23	13.75	3.91	0.81	0.10	0.06	49.86

**Sheet Metal Workers, Region I (North of N63 latitude)**  
 \*See per diem note on last page

		L&M						
<b>N1801</b>	Sheet Metal Journeyman	49.04	11.85	14.61	1.80	0.12		77.42
	Air Balancing and duct cleaning of HVAC systems							
	Brazing, soldering or welding of metals							
	Demolition of sheet metal HVAC systems							
	Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work							
	Fabrication and installation of heating, ventilation and air conditioning ducts and equipment							
	Fabrication and installation of louvers and hoods							
	Fabrication and installation of sheet metal lagging							
	Fabrication and installation of stainless steel commercial or industrial food service equipment							
	HVAC-R Service Mechanic, servicing and maintaining HVAC-R Systems							
	Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work							
	Metal lavatory partitions							
	Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work							
	Sheet Metal shelving							
	Sheet Metal venting, chimneys and breaching							
	Skylight installation							

**Sheet Metal Workers, Region II (South of N63 latitude)**  
 \*See per diem note on last page

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Sheet Metal Workers, Region II (South of N63 latitude)**

\*See per diem note on last page

							L&M	
<b>S1801</b>	Sheet Metal Journeyman	45.35	12.23	14.70	1.83	0.43		74.54
	Air Balancing and duct cleaning of HVAC systems							
	Brazing, soldering or welding of metals							
	Demolition of sheet metal HVAC systems							
	Fabrication and installation of exterior wall sheathing, siding, metal roofing, flashing, decking and architectural sheet metal work							
	Fabrication and installation of heating, ventilation and air conditioning ducts and equipment							
	Fabrication and installation of louvers and hoods							
	Fabrication and installation of sheet metal lagging							
	Fabrication and installation of stainless steel commercial or industrial food service equipment							
	HVAC-R Service Mechanic, servicing and maintaining HVAC-R Systems							
	Manufacture, fabrication assembly, installation and alteration of all ferrous and nonferrous metal work							
	Metal lavatory partitions							
	Preparation of drawings taken from architectural and engineering plans required for fabrication and erection of sheet metal work							
	Sheet Metal shelving							
	Sheet Metal venting, chimneys and breaching							
	Skylight installation							

**Sprinkler Fitters**

\*See per diem note on last page

							L&M	
<b>A1901</b>	Sprinkler Fitter	51.51	10.55	18.15	0.52	0.25		80.98

**Surveyors**

\*See per diem note on last page

							L&M	
<b>A2001</b>	Chief of Parties	46.16	12.23	13.64	1.15	0.10		73.28
<b>A2002</b>	Party Chief	44.57	12.23	13.64	1.15	0.10		71.69
<b>A2003</b>	Line & Grade Technician/Office Technician/GPS, Drones	43.97	12.23	13.64	1.15	0.10		71.09
<b>A2004</b>	Associate Party Chief (including Instrument Person & Head Chain Person)/Stake Hop/Grademan	41.85	12.23	13.64	1.15	0.10		68.97

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Surveyors**  
\*See per diem note on last page

<b>A2006</b>	Chain Person (for crews with more than 2 people)	37.51	12.23	13.64	1.15	0.10	<b>L&amp;M</b>	64.63
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**Truck Drivers**  
\*See per diem note on last page

<b>A2101</b>	Group I, including:	42.94	12.23	13.64	1.15	0.10	<b>L&amp;M</b>	70.06
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- Air/Sea Traffic Controllers
- Ambulance/Fire Truck Driver (EMT certified)
- Boat Coxswain
- Captains & Pilots (air & water)
- Deltas, Commanders, Rollagons, & similar equipment (when pulling sleds, trailers or similar equipment)
- Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) over 40 yards up to & including 60 yards
- Helicopter Transporter
- Liquid Vac Truck/Super Vac Truck
- Material Coordinator or Purchasing Agent
- Ready-mix (over 12 yards up to & including 15 yards) (over 15 yards to be negotiated)
- Semi with Double Box Mixer
- Tireman, Heavy Duty/Fueler
- Water Wagon (250 Bbls and above)

<b>A2102</b>	Group 1A including:	44.21	12.23	13.64	1.15	0.10	<b>L&amp;M</b>	71.33
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- Dump Trucks (including rockbuggy, side dump, belly dump & trucks with pups) over 60 yards up to & including 100 yards (over 100 yards to be negotiated)
- Jeeps (driver under load)
- Lowboys, including tractor attached trailers & jeeps, up to & including 12 axles (over 12 axles or 150 tons to be negotiated)

<b>A2103</b>	Group II, including:	41.68	12.23	13.64	1.15	0.10	<b>L&amp;M</b>	68.80
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- All Deltas, Commanders, Rollagons, & similar equipment
- Batch Trucks (8 yards & up)
- Batch Trucks (up to & including 7 yards)
- Boom Truck/Knuckle Truck (over 5 tons)
- Cacasco Truck/Heat Stress Truck
- Construction and Material Safety Technician
- Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) over 20 yards up to & including 40 yards
- Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating over 5 tons)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation



**Truck Drivers**  
 \*See per diem note on last page

<b>A2103</b> Group II, including:	41.68	12.23	13.64	1.15	<b>L&amp;M</b>		0.10	68.80
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- Mechanics
- Oil Distributor Driver
- Partsman
- Ready-mix (up to & including 12 yards)
- Stringing Truck
- Turn-O-Wagon or DW-10 (not self loading)

<b>A2104</b> Group III, including:	40.86	12.23	13.64	1.15	<b>L&amp;M</b>		0.10	67.98
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- Boom Truck/Knuckle Truck (up to & including 5 tons)
- Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) over 10 yards up to & including 20 yards
- Expeditor (electrical & pipefitting materials)
- Gin Pole Truck, Winch Truck, Wrecker (truck mounted "A" frame manufactured rating 5 tons & under)
- Greaser - Shop
- Semi or Truck & Trailer
- Thermal Plastic Layout Technician
- Traffic Control Technician
- Trucks/Jeeps (push or pull)

<b>A2105</b> Group IV, including:	40.28	12.23	13.64	1.15	<b>L&amp;M</b>		0.10	67.40
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- Air Cushion or similar type vehicle
- All Terrain Vehicle
- Buggymobile
- Bull Lift & Fork Lift, Fork Lift with Power Boom & Swing Attachment (over 5 tons)
- Bus Operator (over 30 passengers)
- Cement Spreader, Dry
- Combination Truck-Fuel & Grease
- Compactor (when pulled by rubber tired equipment)
- Dump Trucks (including rockbuggy, side dump, belly dump, & trucks with pups) up to & including 10 yards
- Dumpster
- Expeditor (general)
- Fire Truck/Ambulance Driver
- Flat Beds, Dual Rear Axle
- Foam Distributor Truck Dual Axle
- Front End Loader with Fork
- Grease Truck
- Hydro Seeder, Dual Axle
- Hyster Operators (handling bulk aggregate)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Truck Drivers**  
 \*See per diem note on last page

<b>A2105</b> Group IV, including:	40.28	12.23	13.64	1.15	<b>L&amp;M</b>		0.10	67.40
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- Loadmaster (air & water operations)
- Lumber Carrier
- Ready-mix, (up to & including 7 yards)
- Rigger (air/water/oilfield)
- Tireman, Light Duty
- Track Truck Equipment
- Truck Vacuum Sweeper
- Warehouseperson
- Water Truck (Below 250 Bbls)
- Water Truck (straight)
- Water Wagon, Semi

<b>A2106</b> Group V, including:	39.52	12.23	13.64	1.15	<b>L&amp;M</b>		0.10	66.64
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- Buffer Truck
- Bull Lifts & Fork Lifts, Fork Lifts with Power Boom & Swing Attachments (up to & including 5 tons)
- Bus Operator (up to 30 passengers)
- Farm Type Rubber Tired Tractor (when material handling or pulling wagons on a construction project)
- Flat Beds, Single Rear Axle
- Foam Distributor Truck Single Axle
- Fuel Handler (station/bulk attendant)
- Gear/Supply Truck
- Gravel Spreader Box Operator on Truck
- Hydro Seeders, Single axle
- Pickups (pilot cars & all light-duty vehicles)
- Rigger/Swamper
- Tack Truck
- Team Drivers (horses, mules, & similar equipment)

**Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**  
 \*See per diem note on last page

<b>N2201</b> Group I, including:	36.30	8.95	21.16	1.40	<b>L&amp;M</b>		0.20	<b>LEG</b>		0.20	68.21
----------------------------------	-------	------	-------	------	----------------	--	------	------------	--	------	-------

- Brakeman
- Mucker
- Nipper
- Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)
- Topman & Bull Gang

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Tunnel Workers, Laborers (The Alaska areas north of N63 latitude and east of W138 longitude)**  
 \*See per diem note on last page

<b>N2201</b>	Group I, including:	36.30	8.95	21.16	1.40	0.20	0.20	68.21
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Tunnel Track Laborer

<b>N2202</b>	Group II, including:	37.40	8.95	21.16	1.40	0.20	0.20	69.31
--------------	----------------------	-------	------	-------	------	------	------	-------

- Burning & Cutting Torch
- Certified Erosion Sediment Control Lead (CESCL Laborer)
- Concrete Laborer
- Floor Preparation, Core Drilling
- Jackhammer/Chipping Gun or Pavement Breaker
- Laser Instrument Operator
- Nozzlemen, Pumpcrete or Shotcrete
- Pipelayer Helper

<b>N2203</b>	Group III, including:	38.39	8.95	21.16	1.40	0.20	0.20	70.30
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- Miner
- Retimberman

<b>N2204</b>	Group IIIA, including:	42.00	8.95	21.16	1.40	0.20	0.20	73.91
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- Asphalt Raker, Asphalt Belly Dump Lay Down
- Drill Doctor (in the field)
- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)
- Pioneer Drilling & Drilling Off Tugger (all type drills)
- Pipelayer
- Powderman (Employee Possessor)
- Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)
- Traffic Control Supervisor, DOT Qualified

<b>N2206</b>	Group IIIB, including:	46.17	6.24	21.16	1.40	0.20	0.20	75.37
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- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)
- Federal Powderman (Responsible Person in Charge)
- Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)
- Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)
- Stake Hopper

**Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)**  
 \*See per diem note on last page

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)**  
 \*See per diem note on last page

						L&M	LEG	
<b>S2201</b>	Group I, including:	36.30	8.95	21.16	1.40	0.20	0.20	68.21

- Brakeman
- Mucker
- Nipper
- Storm Water Pollution Protection Plan Worker (SWPPP Worker - erosion and sediment control Laborer)
- Topman & Bull Gang
- Tunnel Track Laborer

						L&M	LEG	
<b>S2202</b>	Group II, including:	37.40	8.95	21.16	1.40	0.20	0.20	69.31

- Burning & Cutting Torch
- Certified Erosion Sediment Control Lead (CESCL Laborer)
- Concrete Laborer
- Floor Preparation, Core Drilling
- Jackhammer/Chipping Gun or Pavement Breaker
- Laser Instrument Operator
- Nozzle men, Pumpcrete or Shotcrete
- Pipelayer Helper

						L&M	LEG	
<b>S2203</b>	Group III, including:	38.39	8.95	21.16	1.40	0.20	0.20	70.30

- Miner
- Retimberman

						L&M	LEG	
<b>S2204</b>	Group IIIA, including:	42.00	8.95	21.16	1.40	0.20	0.20	73.91

- Asphalt Raker, Asphalt Belly Dump Lay Down
- Drill Doctor (in the field)
- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)
- Pioneer Drilling & Drilling Off Tugger (all type drills)
- Pipelayer
- Powderman (Employee Possessor)
- Storm Water Pollution Protection Plan Specialist (SWPPP Specialist)
- Traffic Control Supervisor, DOT Qualified

						L&M	LEG	
<b>S2206</b>	Group IIIB, including:	46.17	6.24	21.16	1.40	0.20	0.20	75.37

- Driller (including, but not limited to wagon drills, air-track drills, hydraulic drills)(over 5,000 hours)
- Federal Powderman (Responsible Person in Charge)
- Grade Checking (setting or transferring of grade marks, line and grade, GPS, drones)
- Pioneer Drilling & Drilling Off Tugger (all type drills)(over 5,000 hours)

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

**Tunnel Workers, Laborers (The area that is south of N63 latitude and west of W138 longitude)**  
 \*See per diem note on last page

<b>S2206</b>	Group IIIB, including:	46.17	6.24	21.16	1.40		<b>L&amp;M</b>	<b>LEG</b>	
	Stake Hopper						0.20	0.20	75.37

**Tunnel Workers, Power Equipment Operators**  
 \*See per diem note on last page

<b>A2207</b>	Group I	47.88	11.05	13.75	1.00		<b>L&amp;M</b>		
							0.10	0.05	73.83
<b>A2208</b>	Group IA	49.82	11.05	13.75	1.00		<b>L&amp;M</b>		
							0.10	0.05	75.77
<b>A2209</b>	Group II	47.04	11.05	13.75	1.00		<b>L&amp;M</b>		
							0.10	0.05	72.99
<b>A2210</b>	Group III	46.24	11.05	13.75	1.00		<b>L&amp;M</b>		
							0.10	0.05	72.19
<b>A2211</b>	Group IV	39.41	11.05	13.75	1.00		<b>L&amp;M</b>		
							0.10	0.05	65.36

\* Per diem is an established practice for this classification. This means that per diem is an allowable alternative to board and lodging if all criteria are met. See 8 AAC 30.051-08 AAC 30.056, and the per diem information on page vii of this Pamphlet.

\*\* Work in combination of classifications: Employees working in any combination of classifications within the diving crew (working diver, standby diver, and tender) in a shift are paid in the classification with the highest rate for a minimum of 8 hours per shift.

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

### Shipyard Rates Addendum

This Addendum was developed to address the specialized industry of shipbuilding/repair in Alaska, as it relates to public works. For the purposes of providing rates for shipyard work the Department is adopting Shipyard rates from the state of Washington ( King County ). These rates only apply to work done in shipbuilding/repair in Alaska, under a public contract. This addendum will be updated two times a year to coincide with the corresponding Issue of *Laborers and Mechanics MINIMUM RATES OF PAY*.

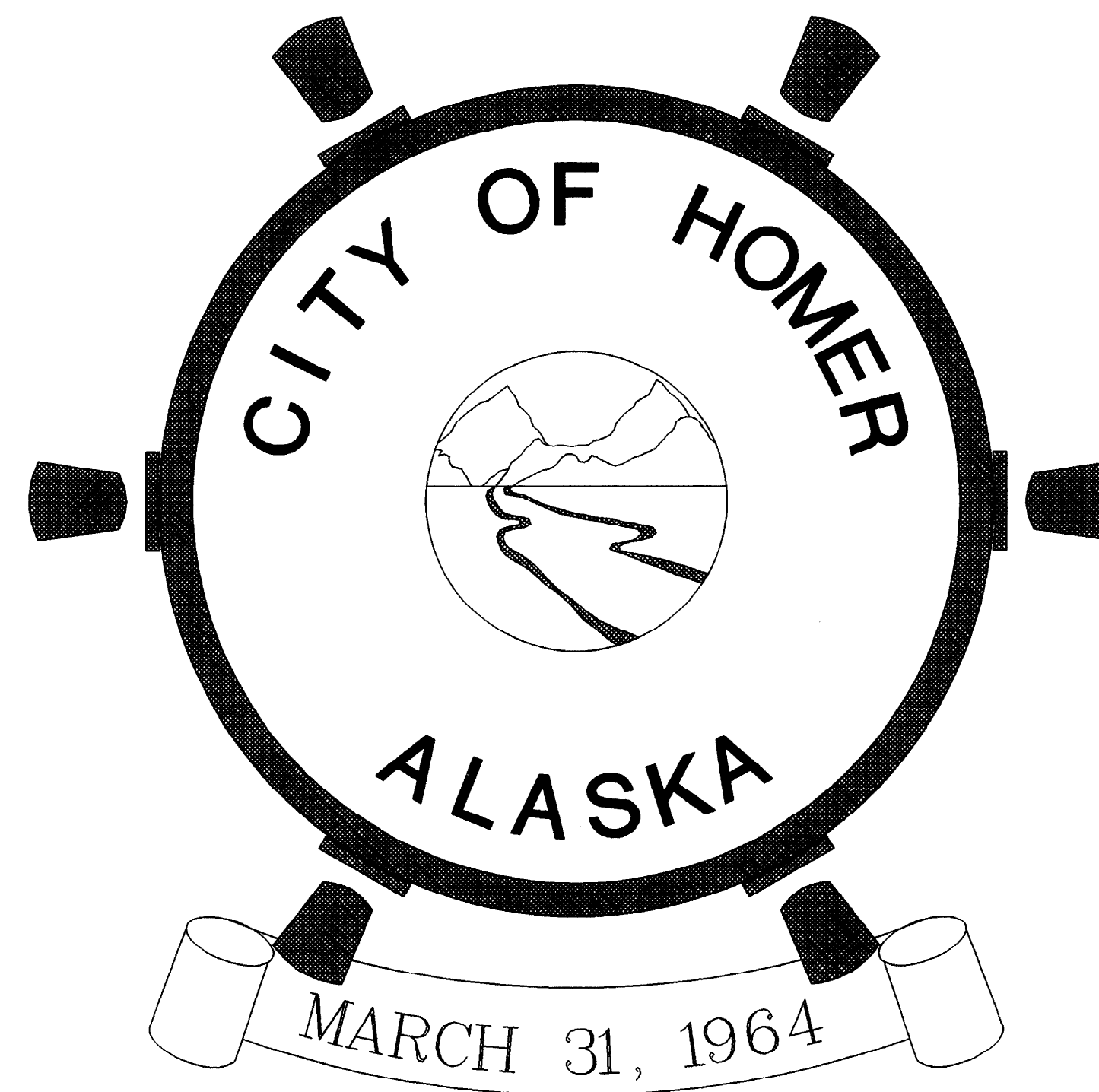
Class Code	BHR H&W PEN TRN Other Benefits	THR
<b>Shipyard Workers</b> *See total hourly(THR) note below		
A2300	Ship Building/Repair Boilermaker	47.45
A2305	Ship Building/Repair Carpenter	47.35
A2310	Ship Building/Repair Crane Operator	45.06
A2315	Ship Building/Repair Electrician	48.92
A2320	Ship Building/Repair Heat & Frost Insulator	82.02
A2325	Ship Building/Repair Laborer	47.35
A2330	Ship Building/Repair Mechanist	47.35
A2335	Ship Building/Repair Operating Engineer	45.06
A2340	Ship Building/Repair Painter	47.35
A2345	Ship Building/Repair Pipefitter	47.35
A2350	Ship Building/Repair Rigger	47.45
A2355	Ship Building/Repair Sheet Metal	47.35
A2360	Ship Building/Repair Shipwright	47.35
A2365	Ship Building/Repair Warehouse	45.06

\*The THR includes the base hourly rate (BHR) and fringe benefits. Employers must pay a BHR and fringe benefit package that adds up to the THR. Fringe benefits included in the THR can be paid to employees in three ways; paid into a union trust fund, into an approved benefit plan, or paid directly on the paycheck as gross wages.

Wage benefits key: BHR=basic hourly rate; H&W=health and welfare; IAF=industry advancement fund; LEG=legal fund; L&M=labor/management fund; PEN=pension fund; SAF=safety; SUI=supplemental unemployment insurance; S&L=SUI & LEG combined; TRN=training; THR=total hourly rate; VAC=vacation

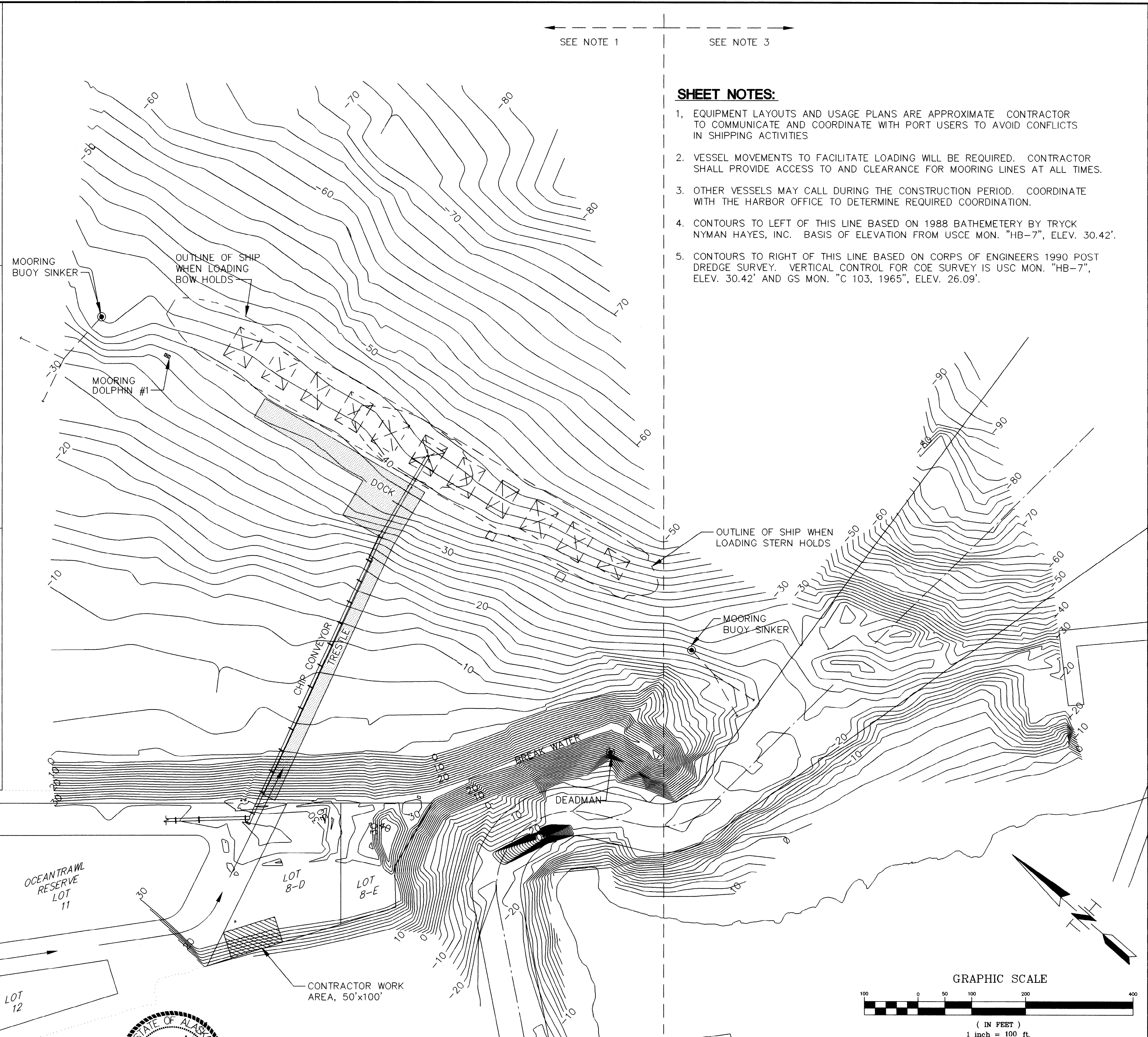
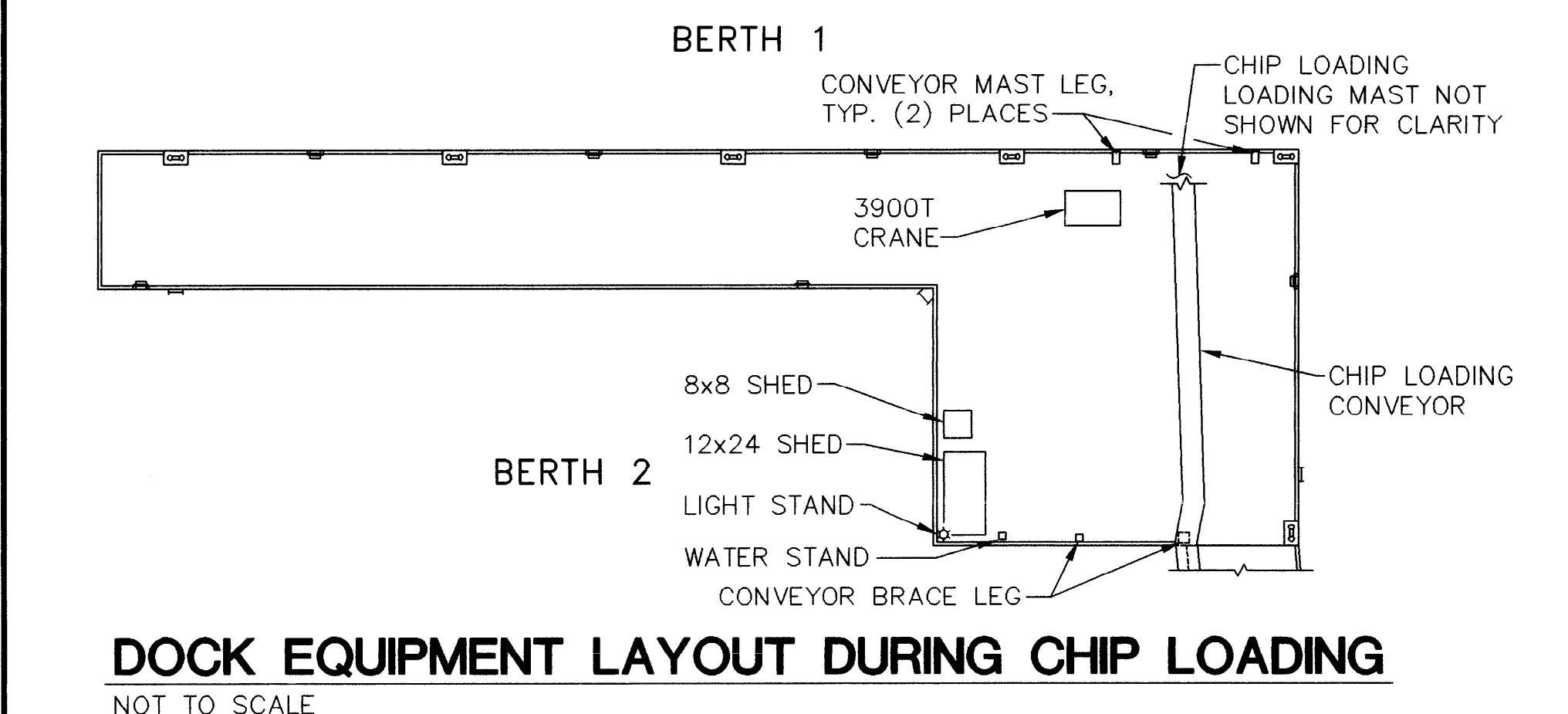
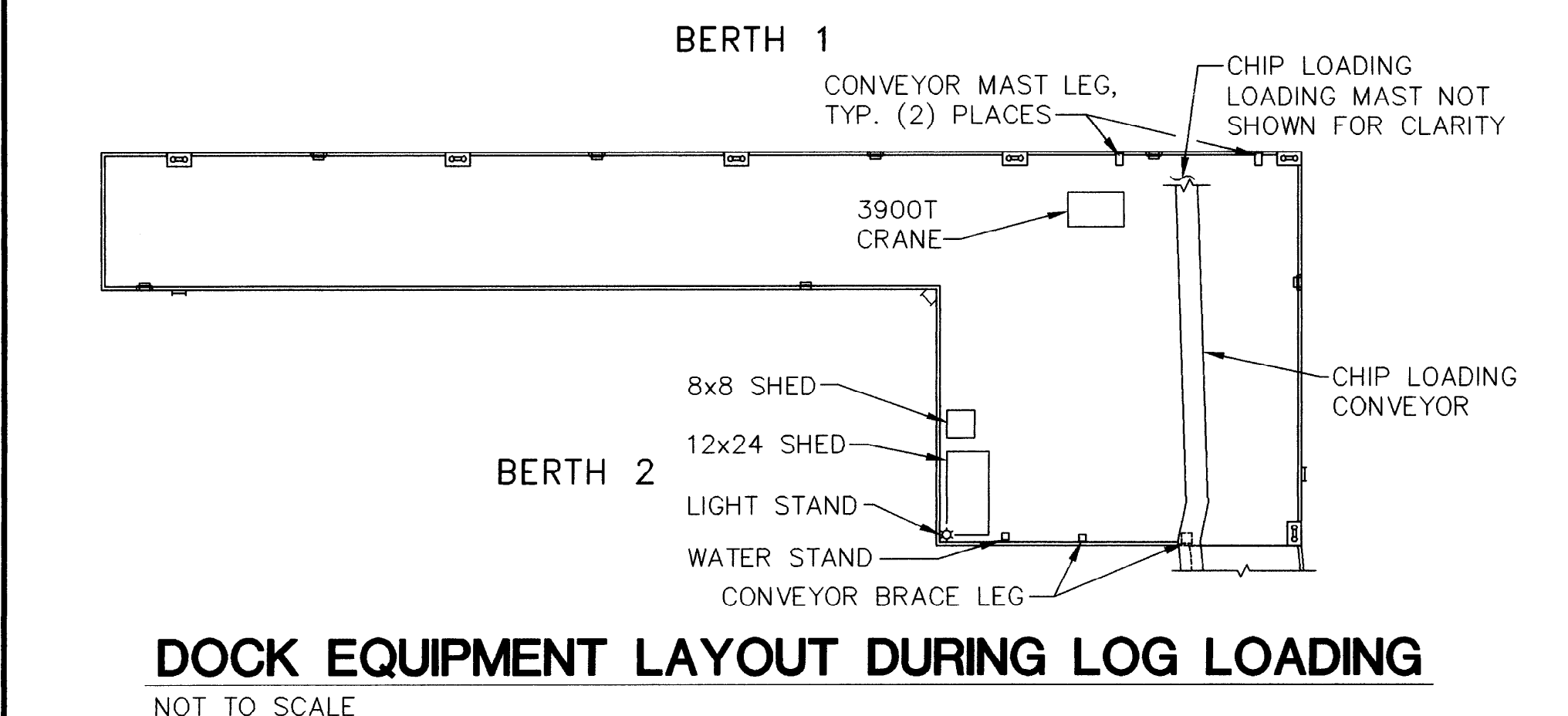
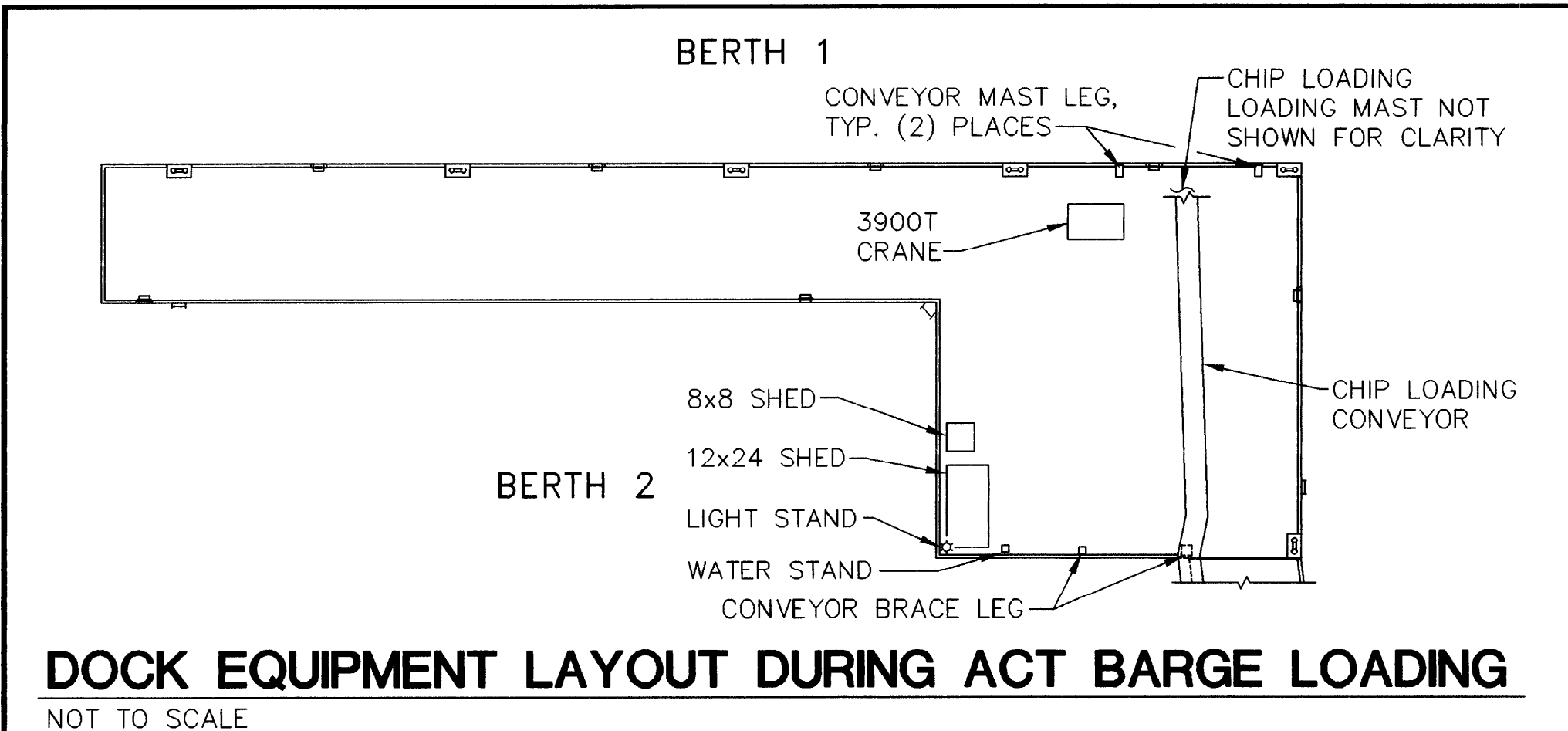
**CITY OF HOMER  
PORT/HARBOR**

**HOMER DEEP WATER DOCK  
FENDER UPGRADE**

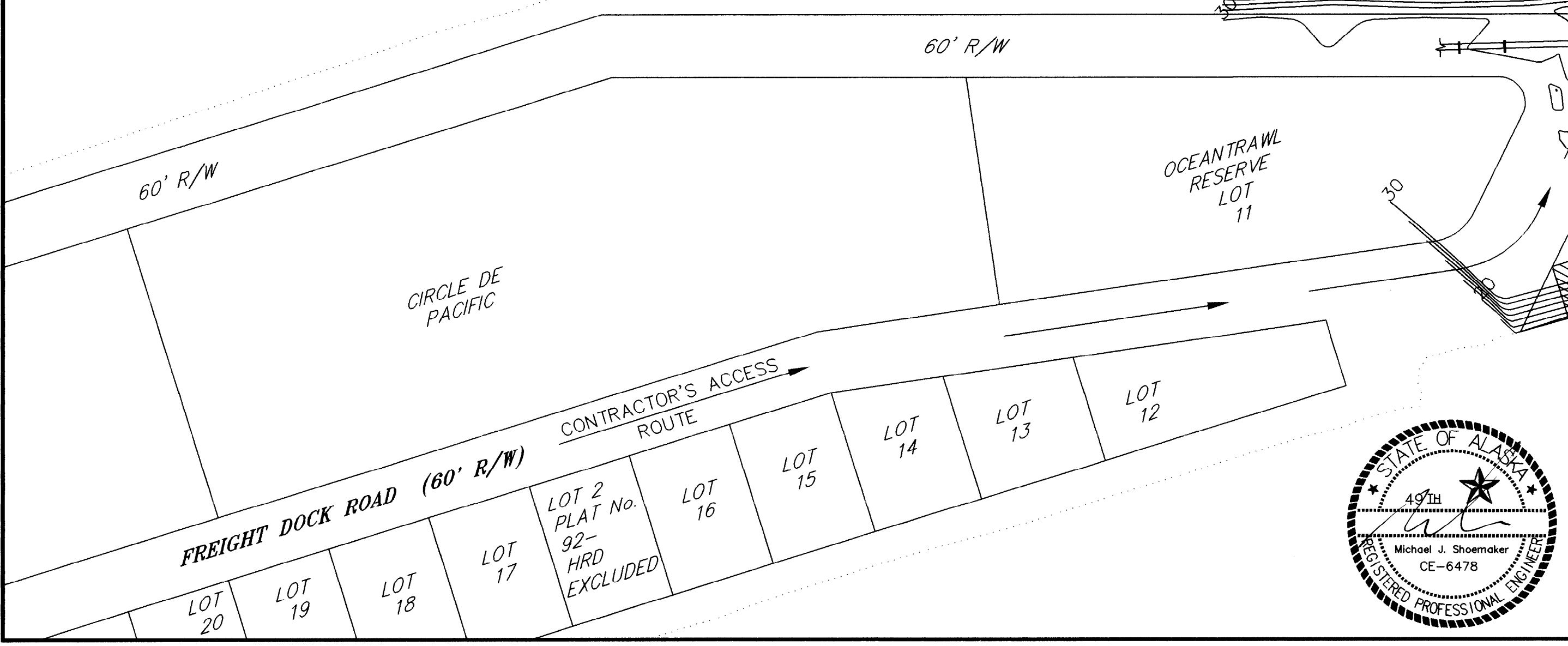


**PREPARED BY:  
TRYCK NYMAN HAYES, INC.**  
26088 IOWA AVENUE NE  
KINGSTON, WA 98346  
(360) 297-5210

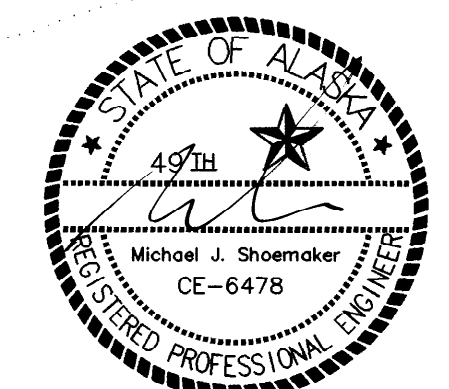




- SHEET NOTES:**
1. EQUIPMENT LAYOUTS AND USAGE PLANS ARE APPROXIMATE. CONTRACTOR TO COMMUNICATE AND COORDINATE WITH PORT USERS TO AVOID CONFLICTS IN SHIPPING ACTIVITIES.
  2. VESSEL MOVEMENTS TO FACILITATE LOADING WILL BE REQUIRED. CONTRACTOR SHALL PROVIDE ACCESS TO AND CLEARANCE FOR MOORING LINES AT ALL TIMES.
  3. OTHER VESSELS MAY CALL DURING THE CONSTRUCTION PERIOD. COORDINATE WITH THE HARBOR OFFICE TO DETERMINE REQUIRED COORDINATION.
  4. CONTOURS TO LEFT OF THIS LINE BASED ON 1988 BATHYMETRY BY TRYCK NYMAN HAYES, INC. BASIS OF ELEVATION FROM USCE MON. "HB-7", ELEV. 30.42'.
  5. CONTOURS TO RIGHT OF THIS LINE BASED ON CORPS OF ENGINEERS 1990 POST DREDGE SURVEY. VERTICAL CONTROL FOR COE SURVEY IS USC MON. "HB-7", ELEV. 30.42' AND GS MON. "C 103, 1965", ELEV. 26.09'.



REV.	DATE	BY	REVISION



**TRYCK NYMAN HAYES, INC.**  
ENGINEERS, PLANNERS, SURVEYORS & LANDSCAPE ARCHITECTS

CITY OF HOMER PORT/HARBOR  
HOMER DEEP WATER DOCK  
**CIVIL SITE PLAN**  
FENDER UPGRADE 01580

SHEET  
**C1** of 8  
FILE NAME  
5525C001.DWG

PLOT SCALE: 1:100



**GENERAL NOTES**

**1. GENERAL NOTES**

**A. DESIGN BASIS**

DESIGN BASED ON SHIP ENERGY CALCULATED IN ACCORDANCE WITH THE FOLLOWING:

KINETIC ENERGY OF THE DOCKING SHIP:

$$K.E. = \frac{1}{2}(W/G)V^2$$

WHERE: W = DISPLACEMENT LOAD OF THE SHIP (KIPS)  
 G = ACCELERATION OF GRAVITY = 32.17 FT/SEC<sup>2</sup>  
 V = DOCKING SPEED OF THE SHIP IN FT/SEC

K.E. EXPRESSED IN FT-KIP

KINETIC ENERGY ABSORBED BY FENDER

$$K.E. \text{ FENDER} = K.E. \text{ SHIP} \times C_m \times C_e \times C_s$$

WHERE: C<sub>m</sub> = MASS FACTOR =  $\frac{W + W_1}{W}$

$$W_1 = \frac{\pi D^2}{4} \times L \times P_w = \text{ADDITIONAL TONNAGE ADDED TO SHIP}$$

D = DRAFT (FT)

L = LENGTH (FT)

P<sub>w</sub> = SPECIFIC GRAVITY OF SEAWATER

$$C_e = \text{ECCENTRICITY FACTOR} = \frac{k^2}{A^2 + k^2}$$

C<sub>s</sub> = SOFTNESS FACTOR = 1.0

**B. BERTH #1 CAPACITY**

RATED ENERGY = 230 FT-KIPS (@ 57.5% DEFLECTION)

MAX REACTION = 192 KIPS

**2. CONSTRUCTION**

**A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURE DURING CONSTRUCTION. ADEQUATE SHORING, TIES, BRACING AND SUPPORTS SHALL BE USED TO ENSURE PROPER TEMPORARY STRUCTURAL INTEGRITY DURING ALL PHASES OF CONSTRUCTION.**

B. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE UNIFORM BUILDING CODE LATEST ADOPTED EDITION, AS AMENDED BY THE STATE OF ALASKA AND THE CITY OF HOMER.

C. ALL WORK SHALL CONFORM TO THE PLANS AND SPECIFICATIONS.

D. CONTRACTOR TO FIELD VERIFY ALL AS-BUILT DIMENSIONS AND DETAILS PRIOR TO FABRICATION AND COORDINATE WITH NEW WORK.

**3. STRUCTURAL STEEL**

A. ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

B. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARDS FOR ARC AND GAS WELDING. UNLESS OTHERWISE NOTED, ALL FILLET WELDS SHALL BE EQUAL LEG WELDS OF THE MINIMUM SIZE REQUIRED BY AISC TABLE J2.4. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS. MANUAL ELECTRODES SHALL BE E70XX.

C. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS-STRUCTURAL WELDING CODE, D1.1, LATEST EDITION.

D. UNLESS OTHERWISE NOTED ALL STRUCTURAL STEEL EXCEPT TUBING SHALL BE A-36. STRUCTURAL TUBING SHALL BE A-500 GRADE B.

E. ALL STEEL SHALL BE HOT DIP GALVANIZED, EXCEPT FOR PORTIONS OF PILES MORE THAN 15 FEET BELOW MUD.

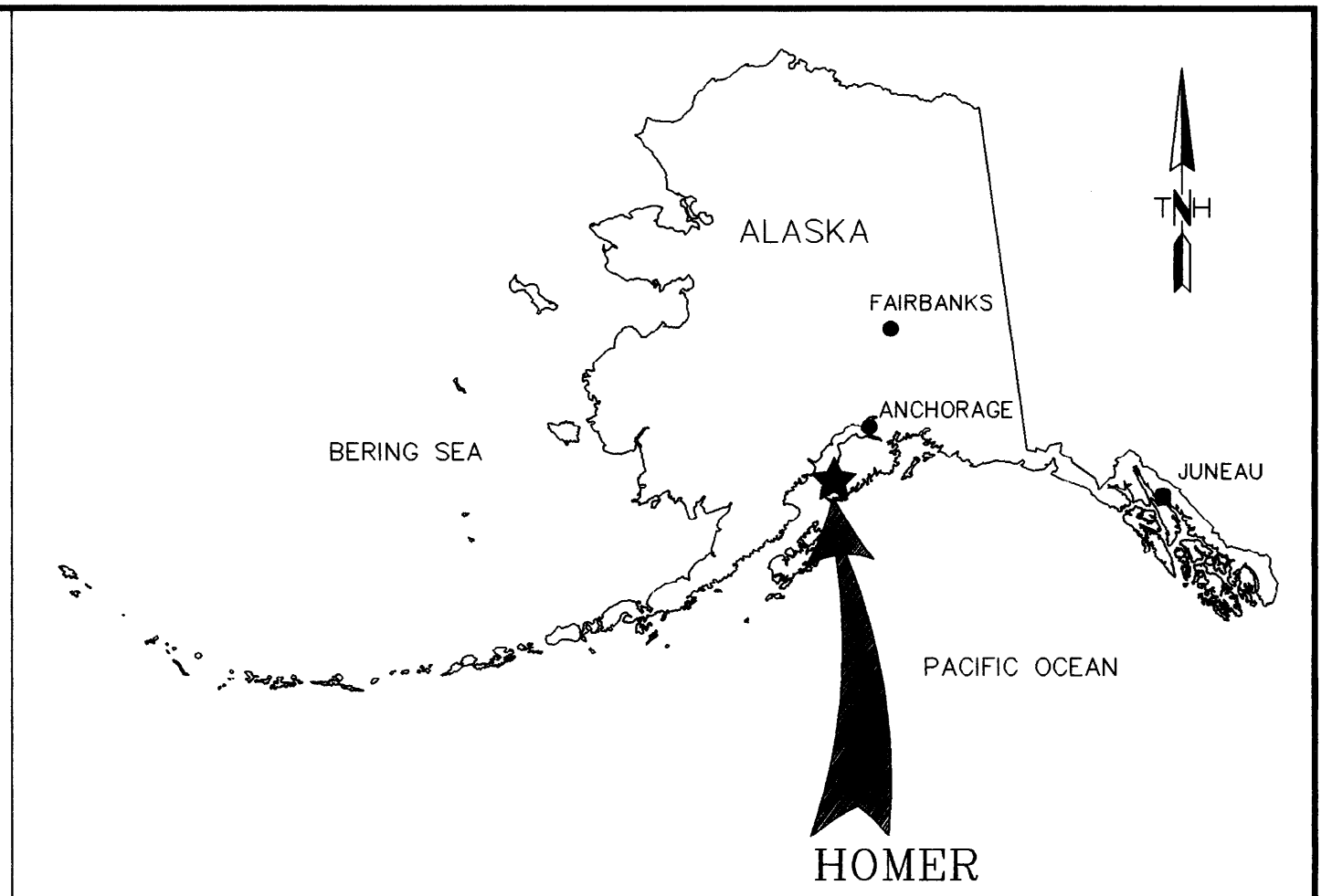
F. ALL CONNECTING BOLTS SHALL BE A-325 HOT DIP GALVANIZED.

**ABBREVIATIONS**

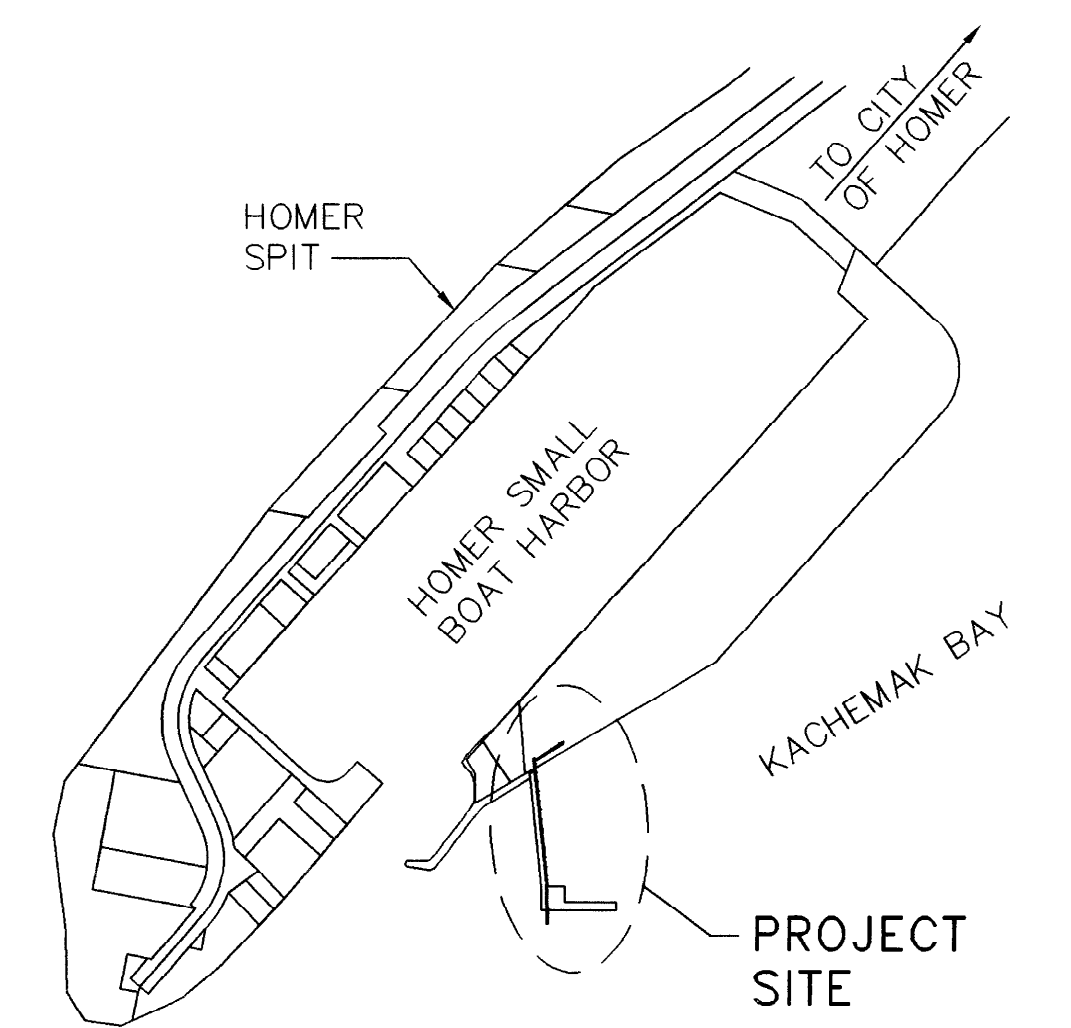
∠	ANGLE
@	AT
∅	DIAMETER
%	PERCENT
±	PLUS/MINUS
CL	CENTER LINE
CLR	CLEAR
ELEV	ELEVATION
EXIST	EXISTING
FT.	FEET
GALV	GALVANIZED
I.D.	INSIDE DIAMETER
IN.	INCHES
kip(s)	THOUSAND INCH POUND(S)
LBS	POUNDS
LGTH	LENGTH
M	METER
Mt	METRIC TON
Mtm	METRIC TON METER
O.D.	OUTSIDE DIAMETER
Pc	PIECE
PL	PLATE
PLCS	PLACES
R/E	REACTION/ENERGY
REF	REFERENCE
SIM	SIMILAR
SPCS	SPACES
SYM	SYMMETRICAL
TYP	TYPICAL
UHMW	ULTRA HIGH MOLECULAR WEIGHT
VS.	VERSUS
w/	WITH

**INDEX OF DRAWINGS**

SHEET	DESCRIPTION
T1	COVER SHEET
T2	INDEX, GENERAL NOTES LEGEND & ABBREVIATIONS
C1	CIVIL SITE PLAN
S1	DOCK PLAN & ELEVATION
S2	BERTH 1 EXISTING CONDITIONS
S3	BERTH 1 UPGRADED FENDER PLAN
S4	BERTH 1 NEW FENDER DETAILS & SECTIONS
S5	BERTH 1 NEW FENDER UHMW FACING
S6	RUBBER FENDER DESIGN DATA



**LOCATION MAP**  
NOT TO SCALE



**VICINITY MAP**  
NOT TO SCALE

**LEGEND**



REV.	DATE	BY	REVISION	FIELD BOOKS	DESIGNED MJS
				DESIGN -	DRAWN FDB
				STAKING -	CHECKED MJS
				AS-BUILT -	DATE
				SCALE	GRID -
				HOR. AS NOTED	JOB NO. 5525.0
				VER. N/A	

**TRYCK  
NYMAN  
HAYES, INC.**  
ENGINEERS/PLANNERS/SURVEYORS  
& LANDSCAPE ARCHITECTS

CITY OF HOMER PORT/HARBOR  
HOMER DEEP WATER DOCK  
**INDEX, GENERAL NOTES,  
LEGEND & ABBREV.**  
FENDER UPGRADE 01581

SHEET  
**T2** / 8  
FILE NAME  
5525T002.DWG

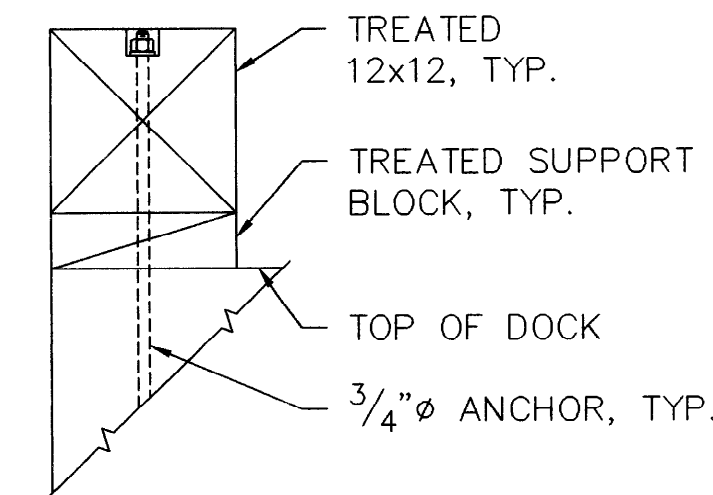
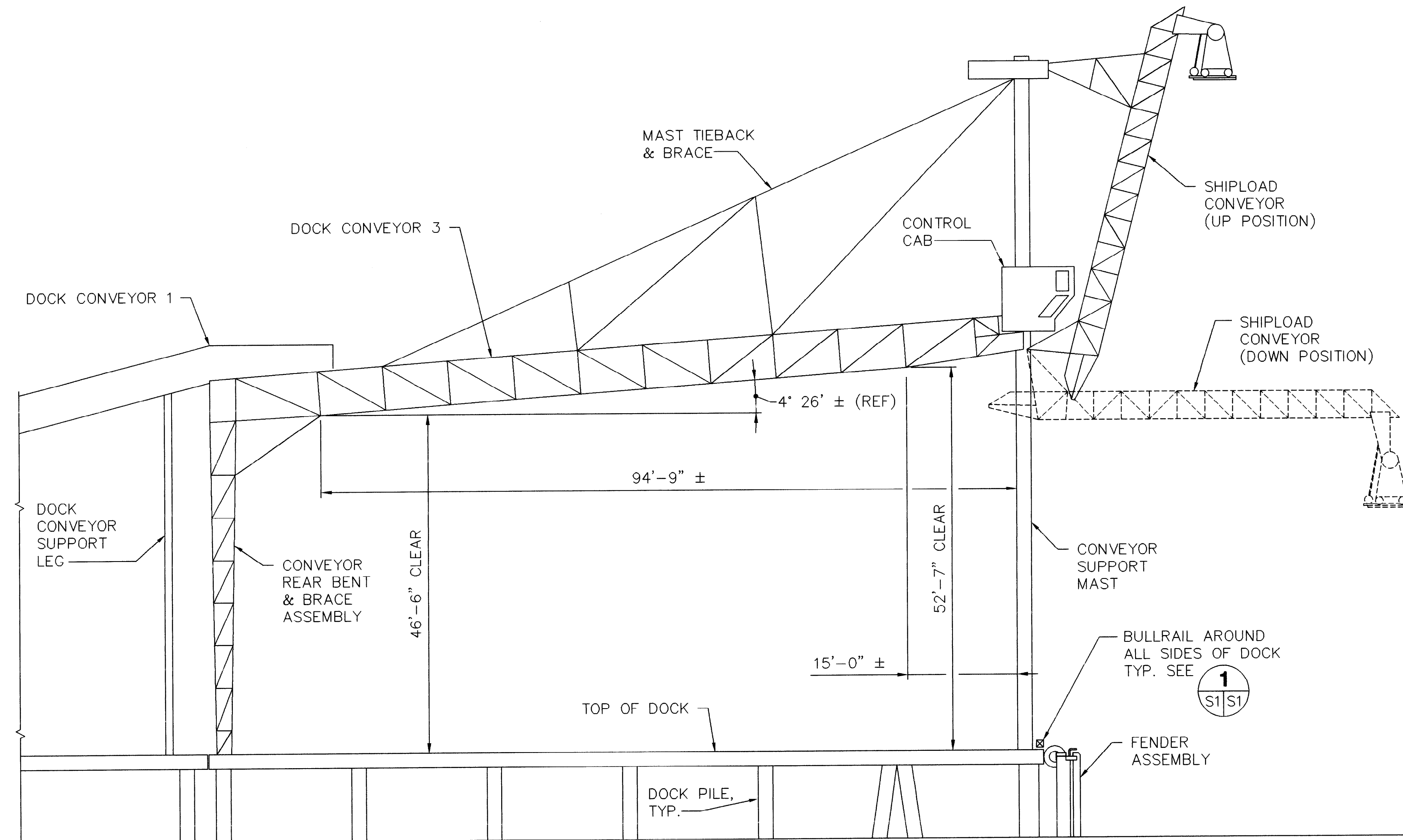
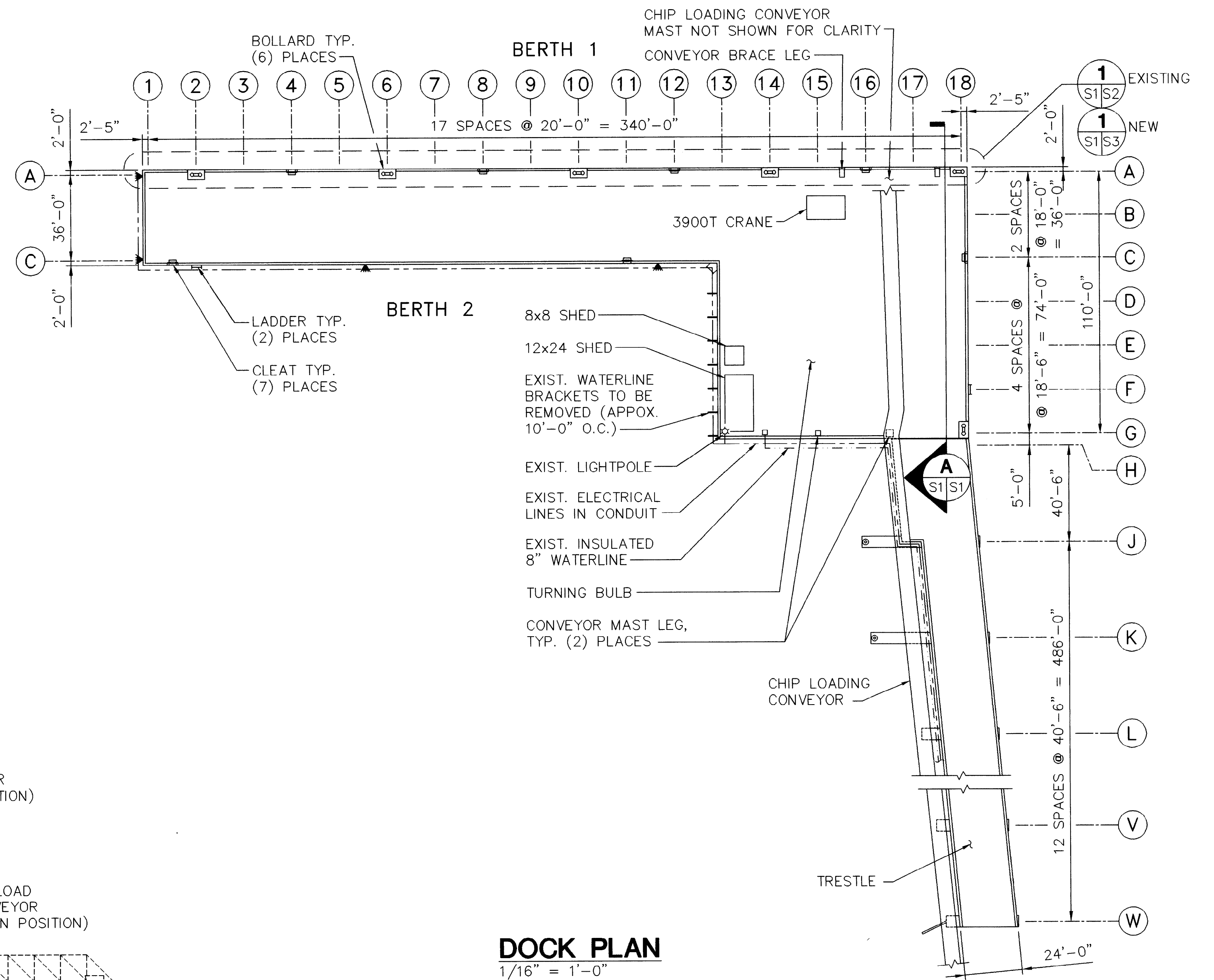
PLOT SCALE: 1:1

# SCOPE OF WORK

## MAJOR WORK ITEMS

WORK ITEMS NOTED ARE INTENDED ONLY AS A GENERAL GUIDE TO THE INTENT OF THE CONTRACT. THE WORK ITEMS LISTED ARE NOT ALL INCLUSIVE OF THE CONTRACT WORK ITEMS. SEE PLANS AND SPECIFICATIONS FOR OTHER REQUIRED WORK AND COORDINATION.

1. REMOVE EXISTING 36" Ø RUBBER SHOCK ABSORBERS FROM CORNER FENDERS AT GRIDS **1** & **18** AND SALVAGE.
2. REMOVE EXISTING CORNER FENDERS AT **1** & **18** AND SALVAGE.
3. INSTALL NEW CORNER FENDERS AT **1** & **18** INCLUDING ALL ASSOCIATED HARDWARE.
4. INSTALL NEW UHMW FACING AS AWARDED.



NOTE: CONVEYORS AND LOADING SYSTEM ARE THE PROPERTY OF CIRCLE DE PACIFIC CORP. CONTRACTOR'S WORK SHALL NOT AFFECT OR INTERFERE WITH CIRCLE DE PACIFIC CORP.'S SHIP LOAD AND REQUIRED MAINTENANCE AND OPERATIONS. SEE CHIP LOADING PLAN ON SHEET C-1 FOR DOCK USAGE DURING CHIP LOADING OPERATIONS. LOADING SYSTEM SHOWN SCHEMATICALLY ONLY. AS-BUILTS AVAILABLE AT HARBOR OFFICE.

**1 TYPICAL BULLRAIL SECTION**  
S1 | S1 1" = 1'-0"



REV.	DATE	BY	REVISION

FIELD BOOKS  
DESIGN -  
STAKING -  
AS-BUILT -

DESIGNED MJS  
DRAWN FDB  
CHECKED MJS  
DATE -

SCALE  
HOR. AS NOTED  
VER. N/A

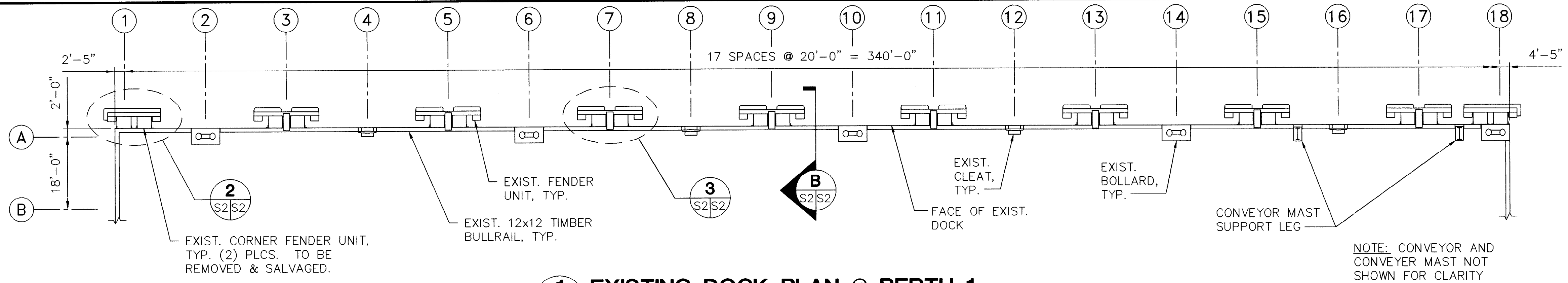
GRID -  
JOB NO. 5525.0

**TRYCK NYMAN HAYES, INC.**  
ENGINEERS/PLANNERS/SURVEYORS & LANDSCAPE ARCHITECTS

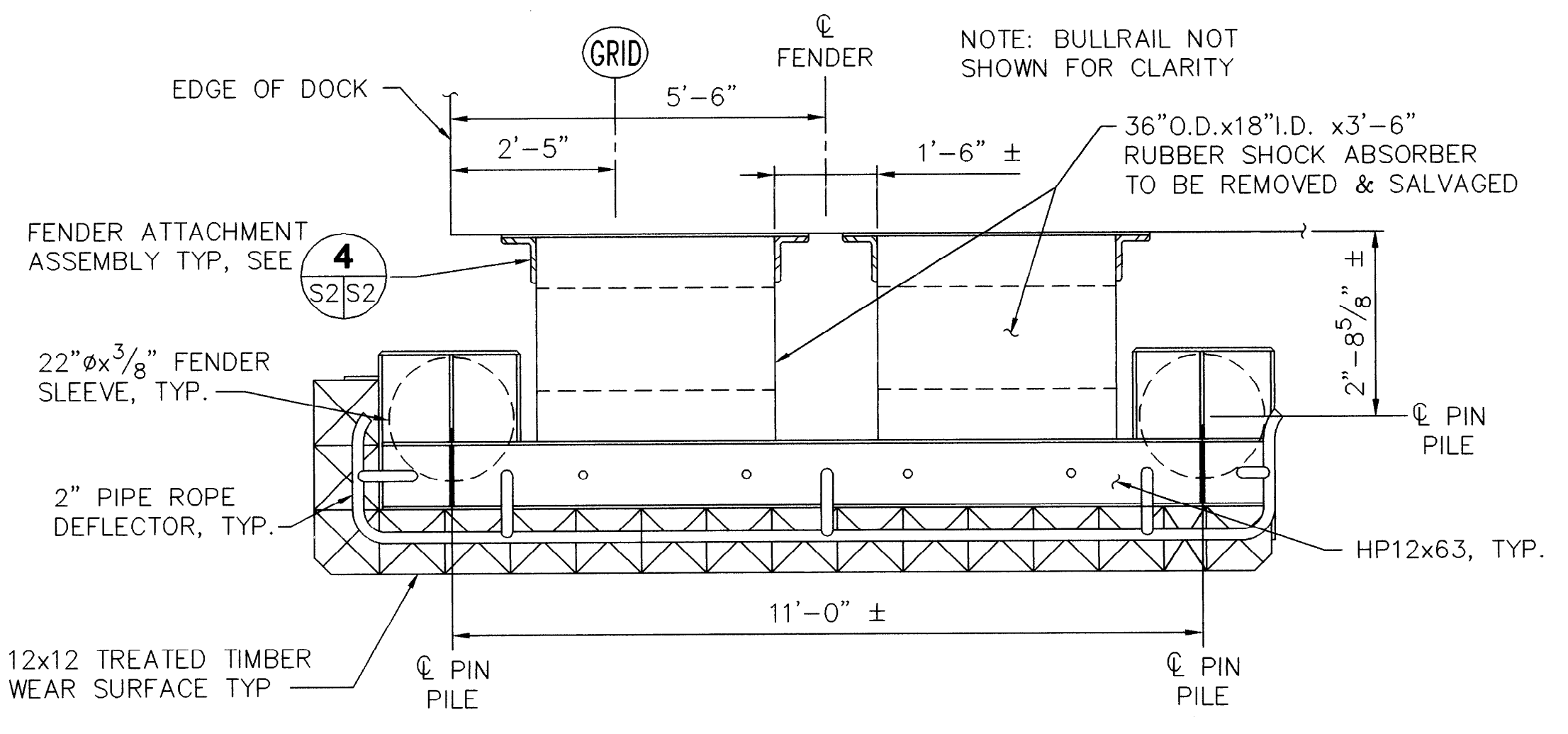
CITY OF HOMER PORT/HARBOR  
HOMER DEEP WATER DOCK  
**DOCK PLAN & ELEVATION**  
FENDER UPGRADE 01582

SHEET  
**S1** OF **8**  
FILE NAME  
5525S001.DWG

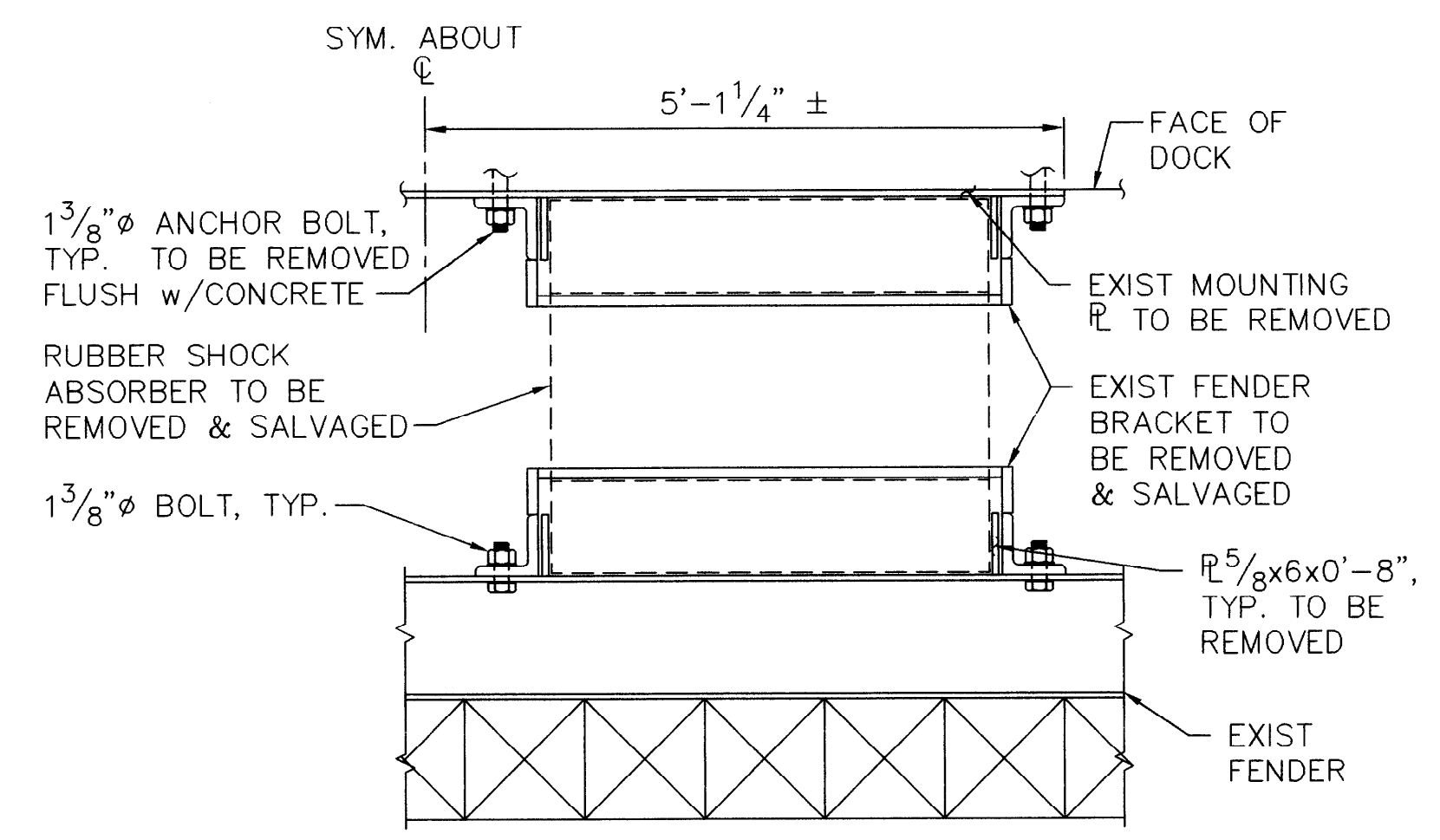
PLOT SCALE: 1:1



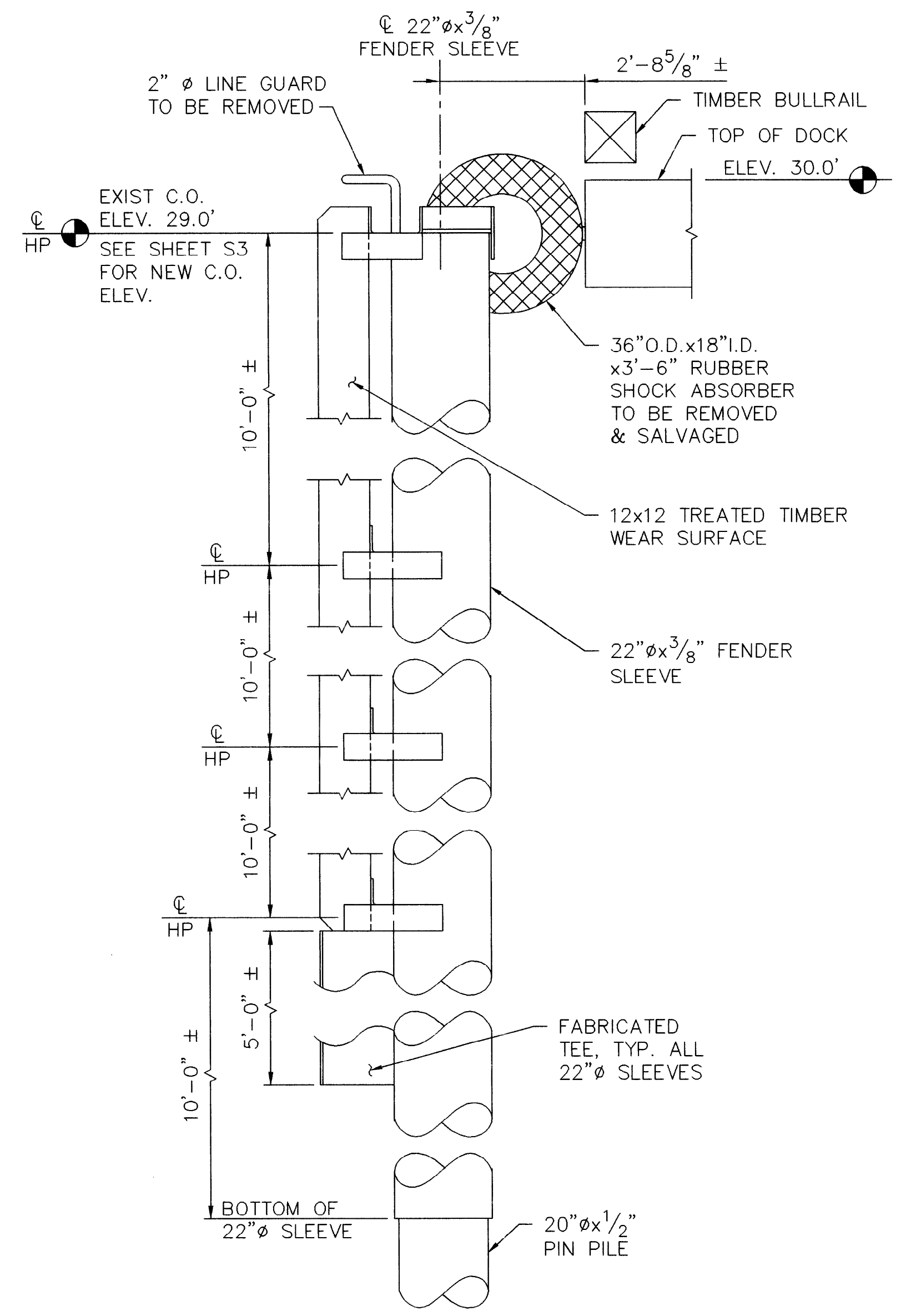
**1 EXISTING DOCK PLAN @ BERTH 1**  
S1|S2 1/16"=1'-0"



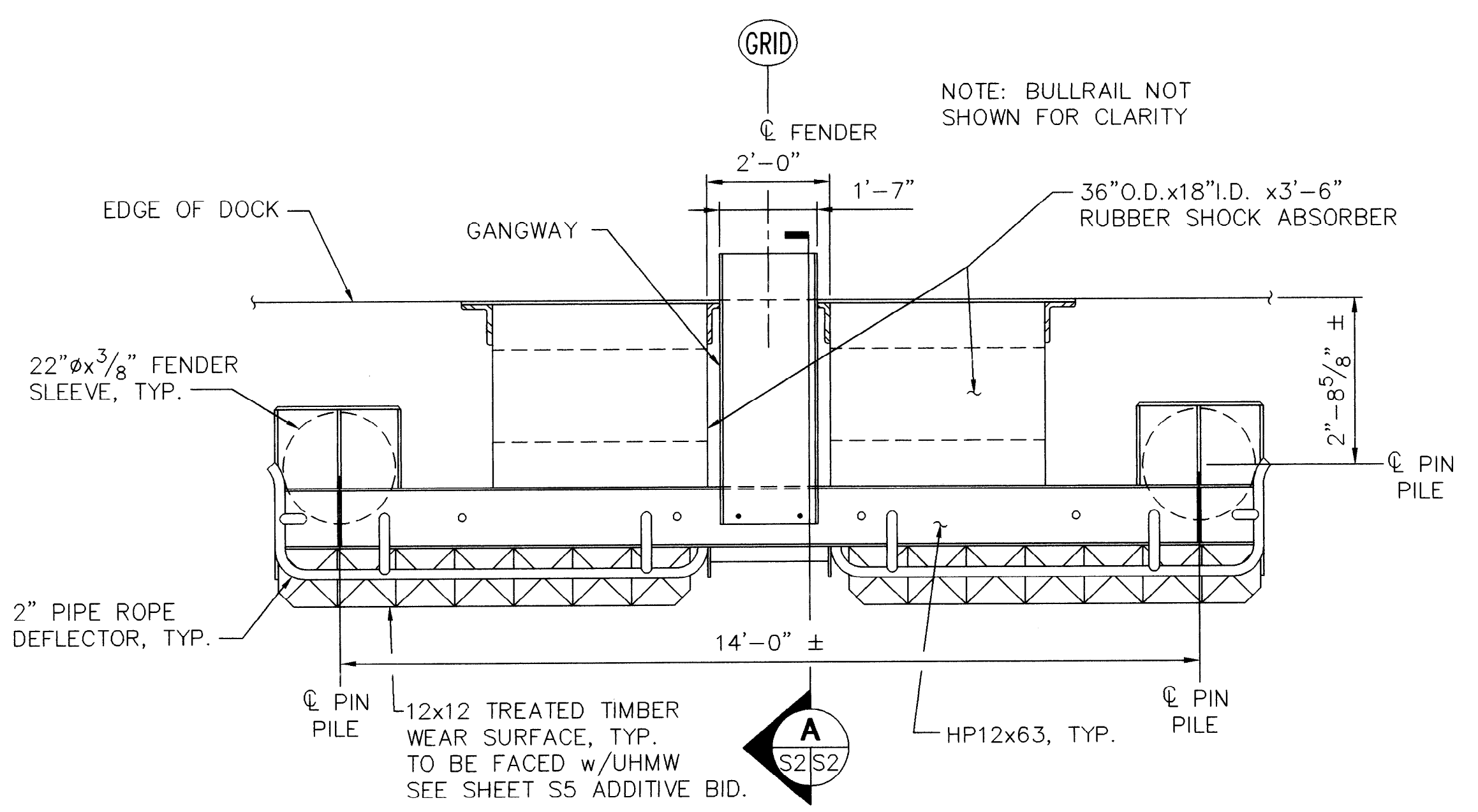
**2 TYPICAL CORNER FENDER UNIT**  
S2|S2 1/2"=1'-0"



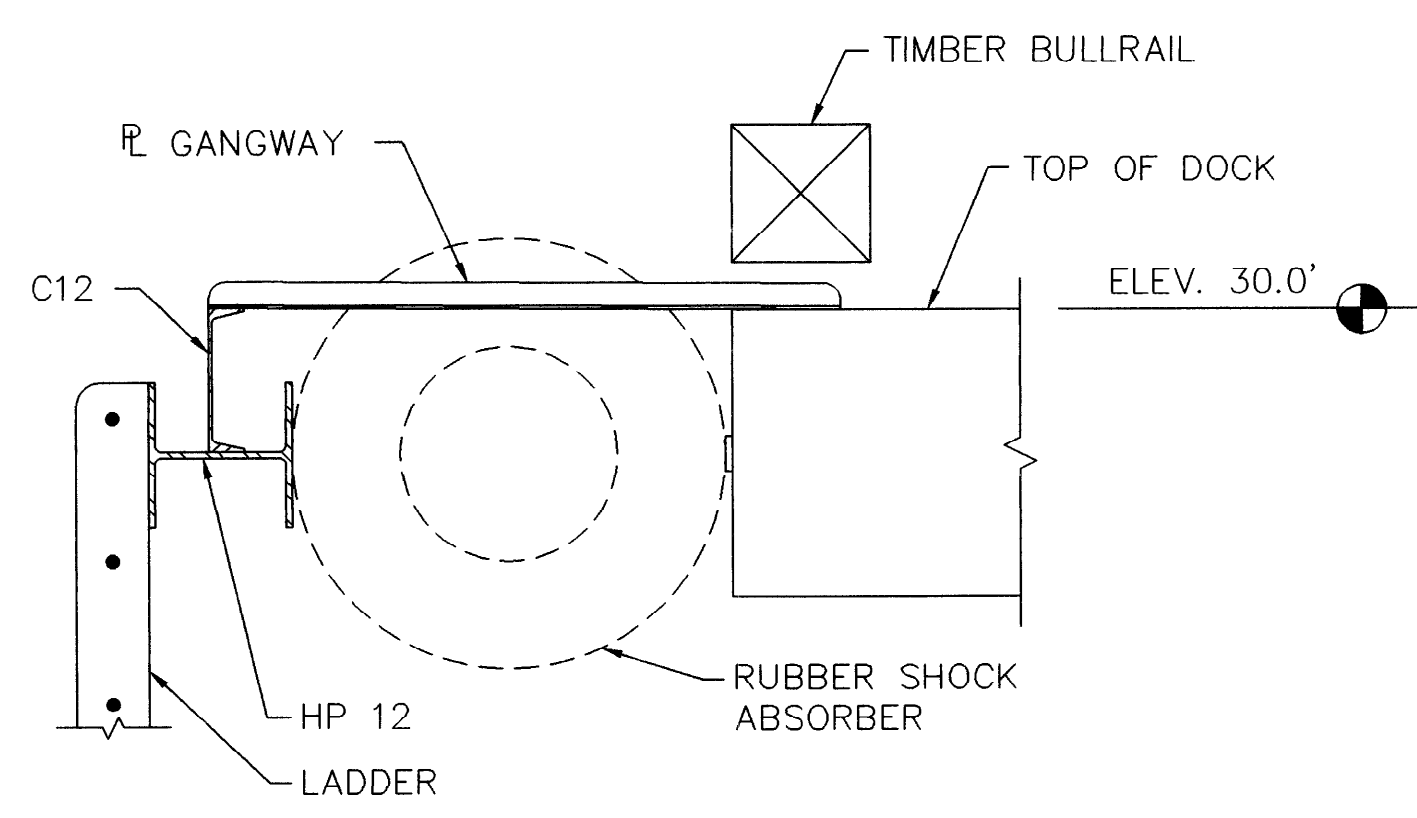
**4 FENDER ATTACHMENT PLAN**  
S2|S2 3/4"=1'-0"



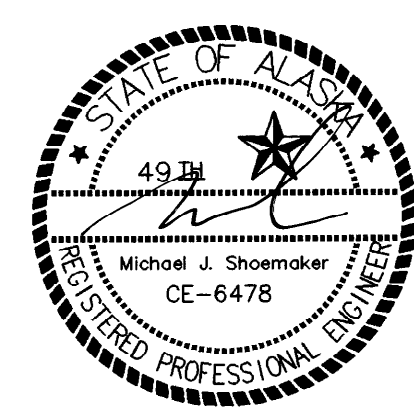
**B TYPICAL FENDER ELEVATION**  
S2|S2 1/2"=1'-0"



**3 TYPICAL FENDER UNIT**  
S2|S2 1/2"=1'-0"



**A SECTION**  
S3|S2 3/4"=1'-0"



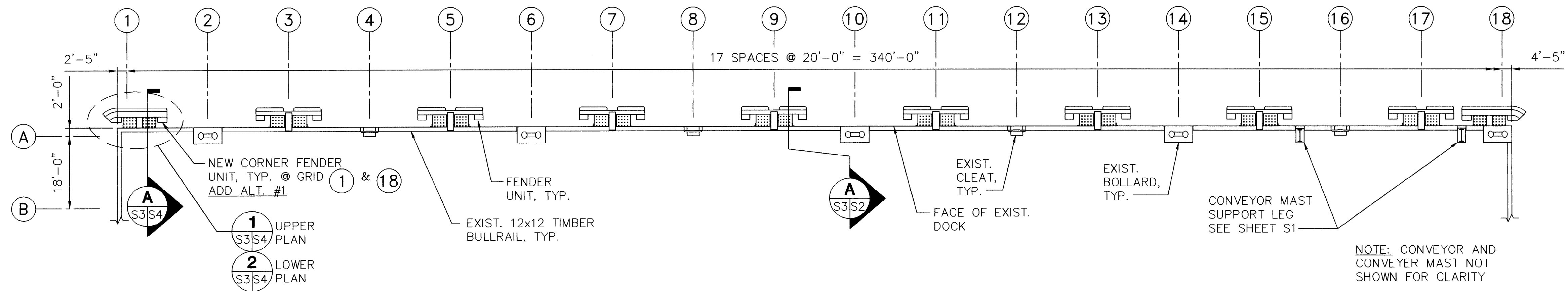
REV.	DATE	BY	REVISION

**TRYCK NYMAN HAYES, INC.**  
ENGINEERS/PLANNERS/SURVEYORS & LANDSCAPE ARCHITECTS

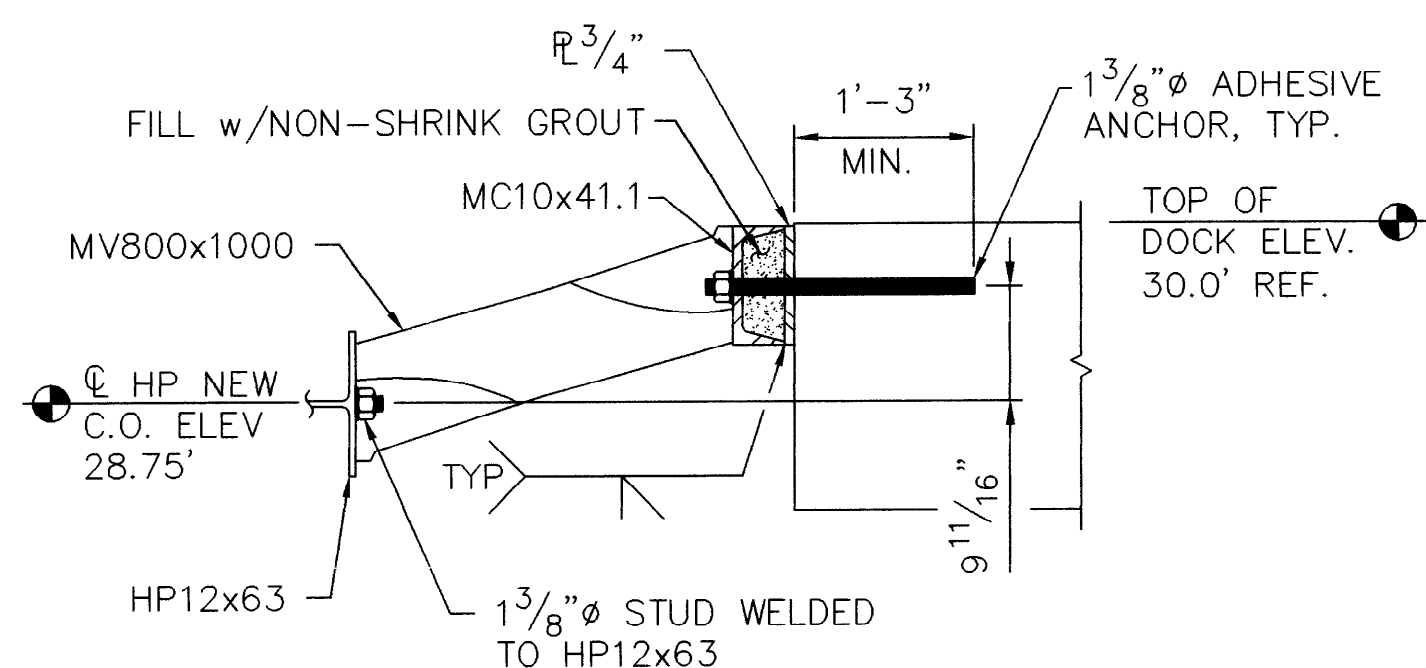
CITY OF HOMER PORT/HARBOR  
HOMER DEEP WATER DOCK  
**BERTH 1 EXISTING CONDITIONS & DEMOLITION**  
FENDER UPGRADE 01583

SHEET  
**S2** OF **8**  
FILE NAME  
5525S002.DWG

PLOT SCALE: 1:1



**1 BERTH 1 UPGRADED FENDER PLAN**  
 S1 S3 1/16" = 1'-0"



**4 DETAIL**  
 S3 S3 3/4" = 1'-0"



REV.	DATE	BY	REVISION	FIELD BOOKS	DESIGNED MJS
				DESIGN -	DRAWN FDB
				STAKING -	CHECKED MJS
				AS-BUILT -	DATE
				SCALE	GRID -
				HOR. AS NOTED	JOB NO. 5525.0
				VER. N/A	

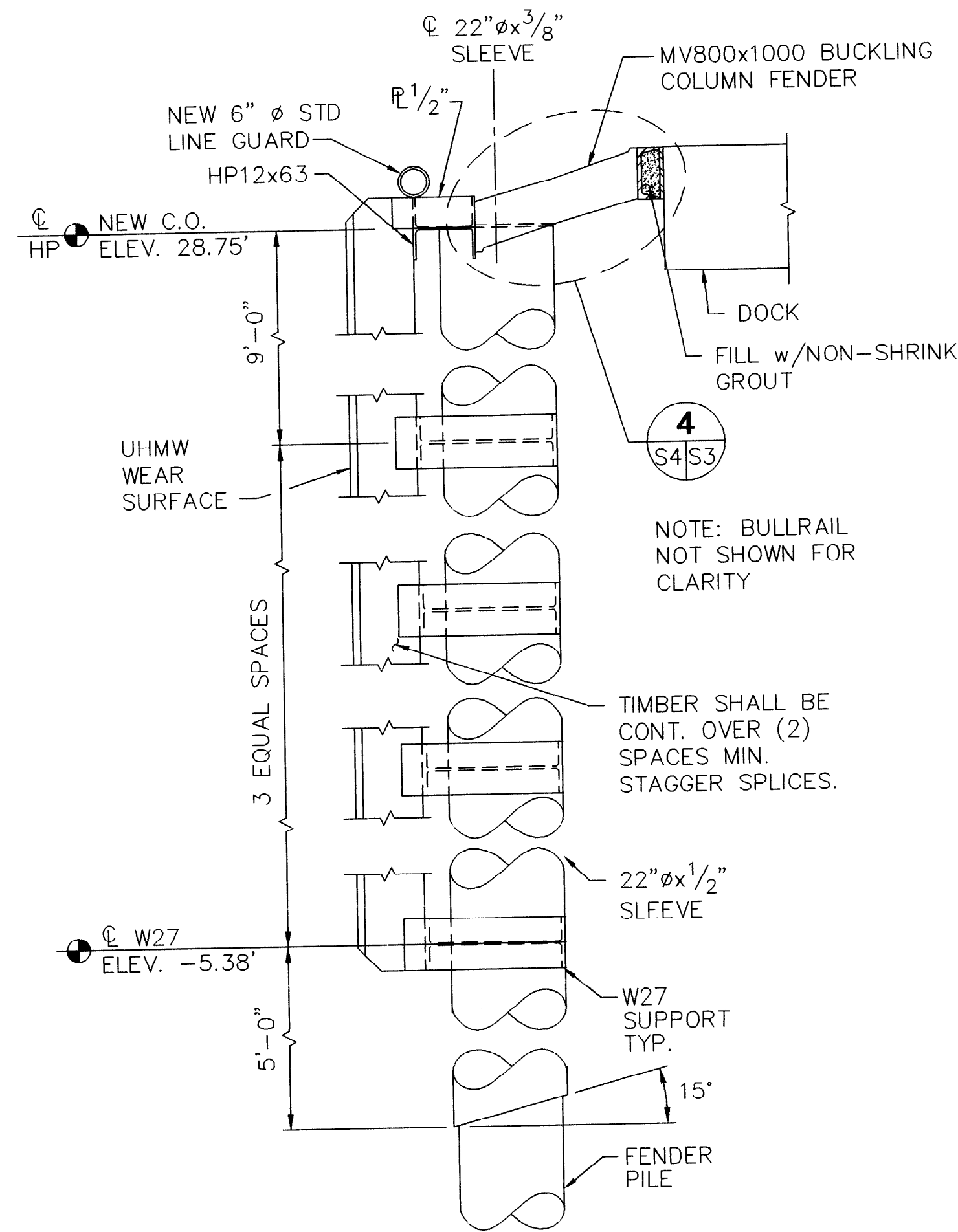
**TRYCK NYMAN HAYES, INC.**  
 ENGINEERS/PLANNERS/SURVEYORS & LANDSCAPE ARCHITECTS

CITY OF HOMER PORT/HARBOR  
 HOMER DEEP WATER DOCK  
**BERTH 1 UPGRADED FENDER PLAN**  
 FENDER UPGRADE 01584

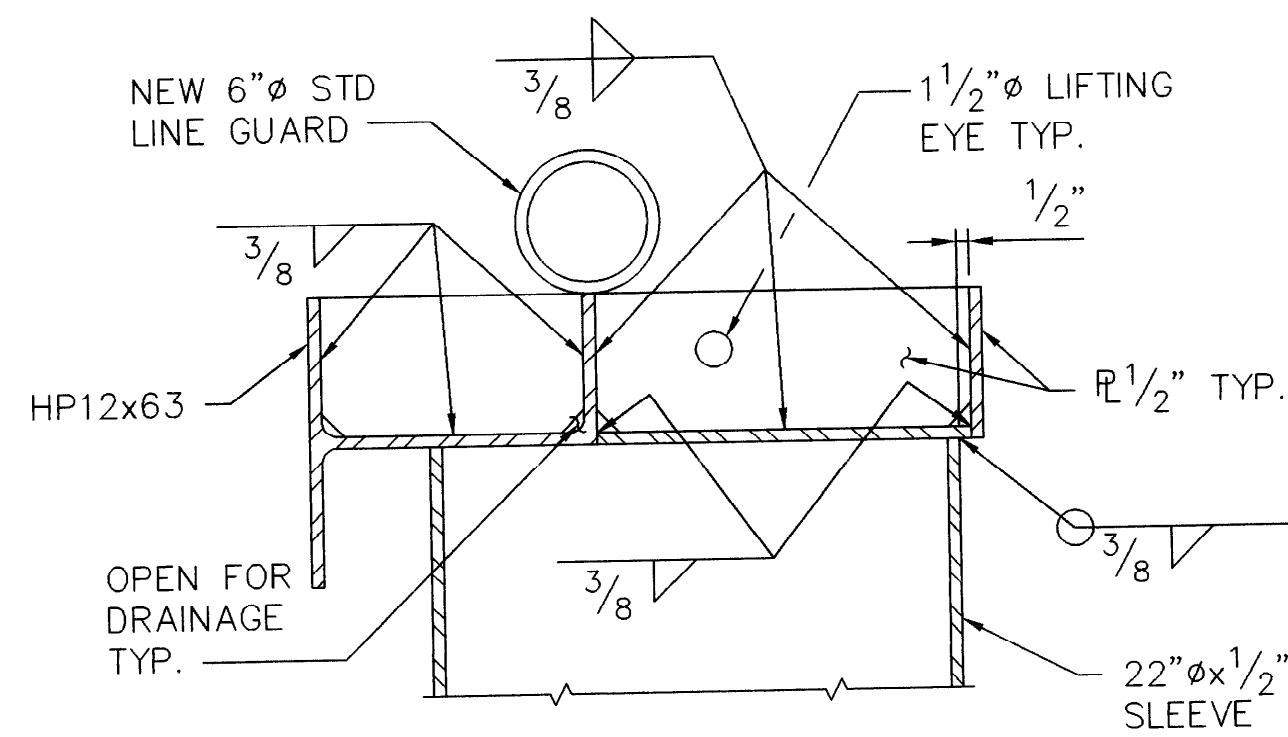
SHEET  
**S3** of **8**  
 FILE NAME  
 5525S003.DWG

PLOT SCALE: 1:1

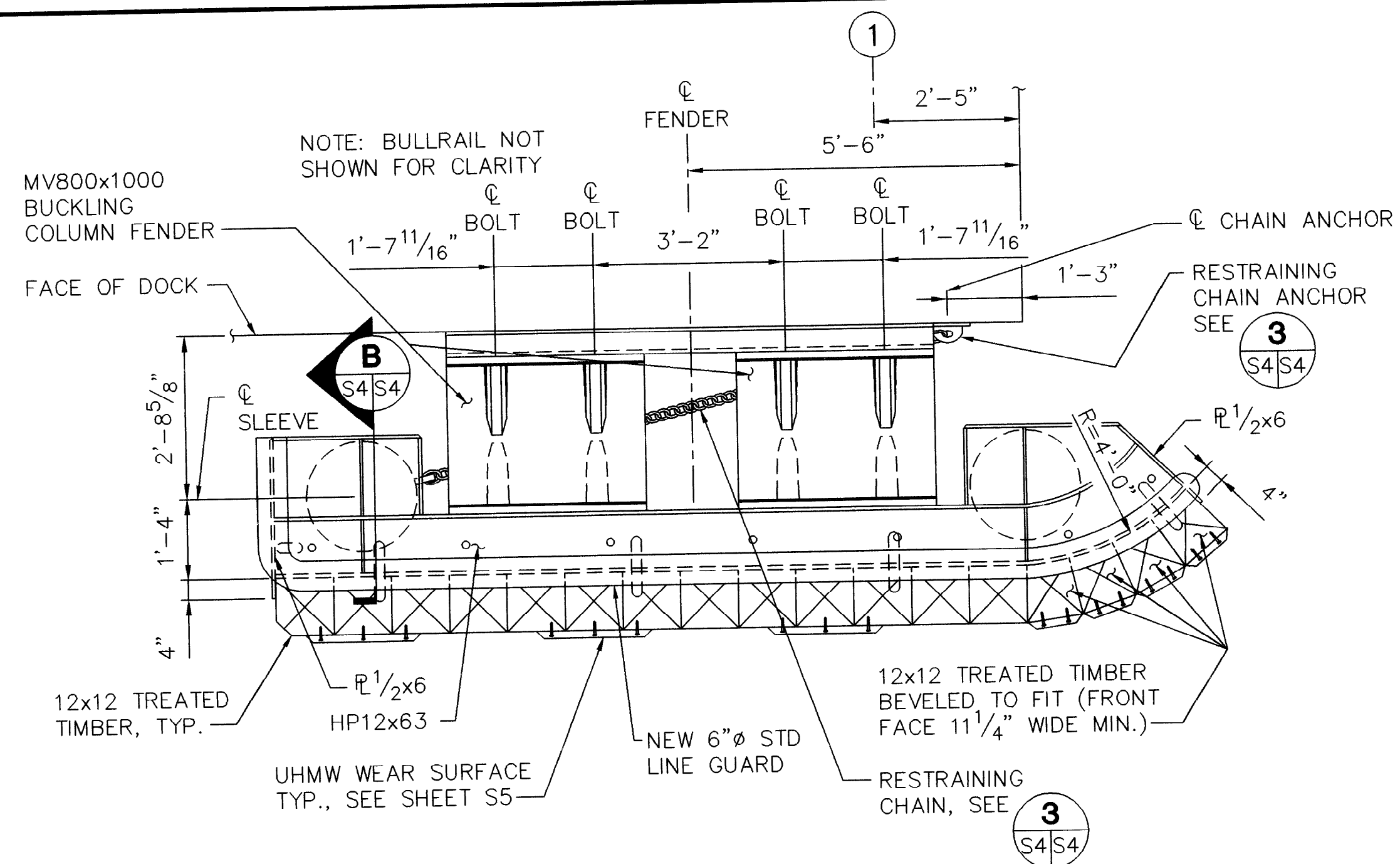




**A CORNER FENDER ELEVATION**  
S3|S4 1/2"=1'-0"

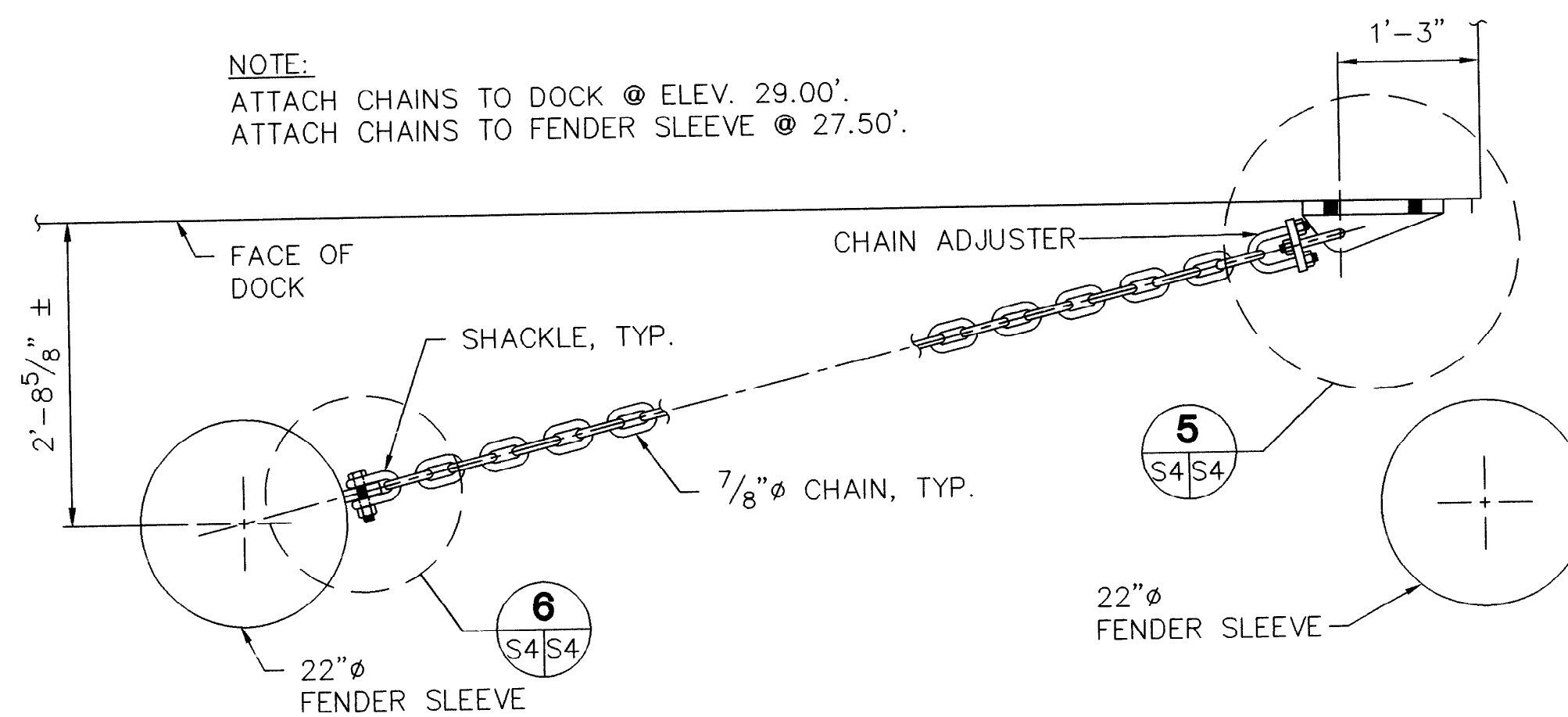


**B SECTION**  
S4|S4 1 1/2"=1'-0"

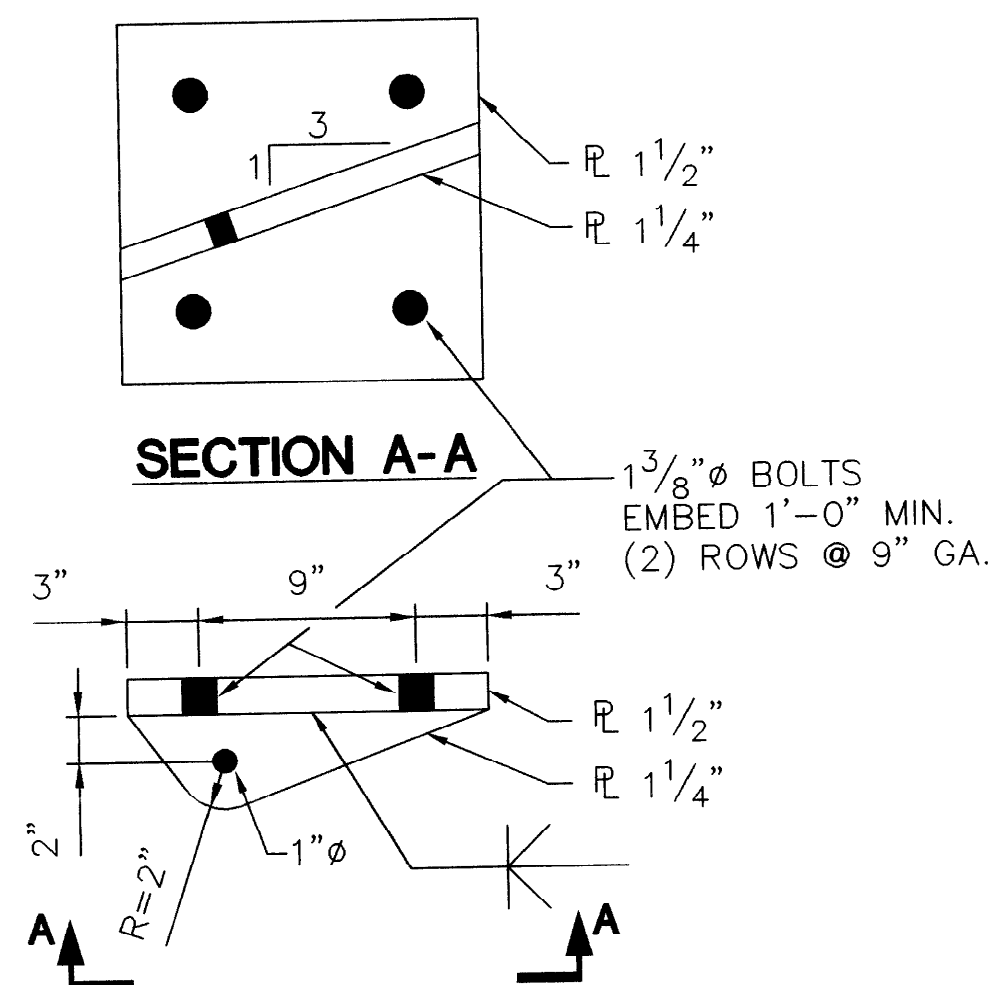


**1 CORNER FENDER - UPPER PLAN**  
S3|S4 1/2"=1'-0" GRID 8 OPP. HAND

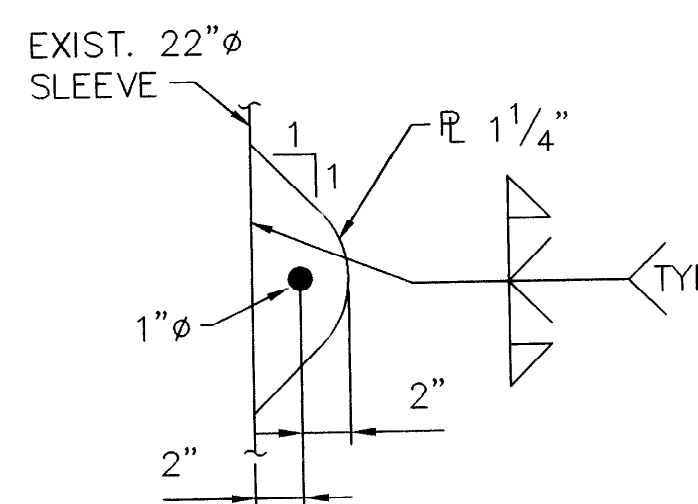
NOTE:  
ATTACH CHAINS TO DOCK @ ELEV. 29.00'.  
ATTACH CHAINS TO FENDER SLEEVE @ 27.50'.



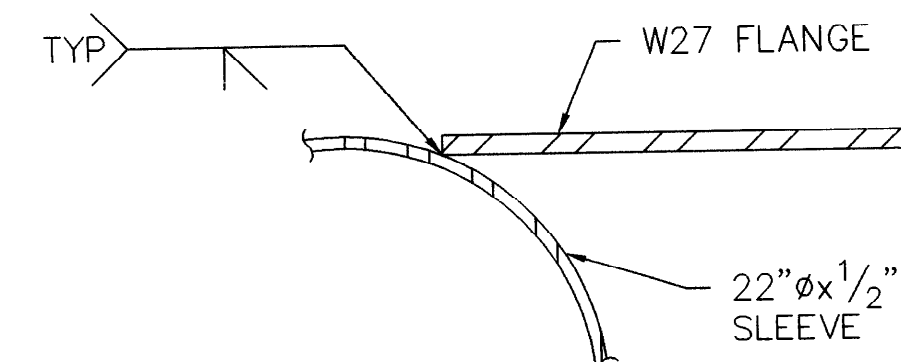
**3 CHAIN ATTACHMENT PLAN**  
S4|S4 3/4"=1'-0"



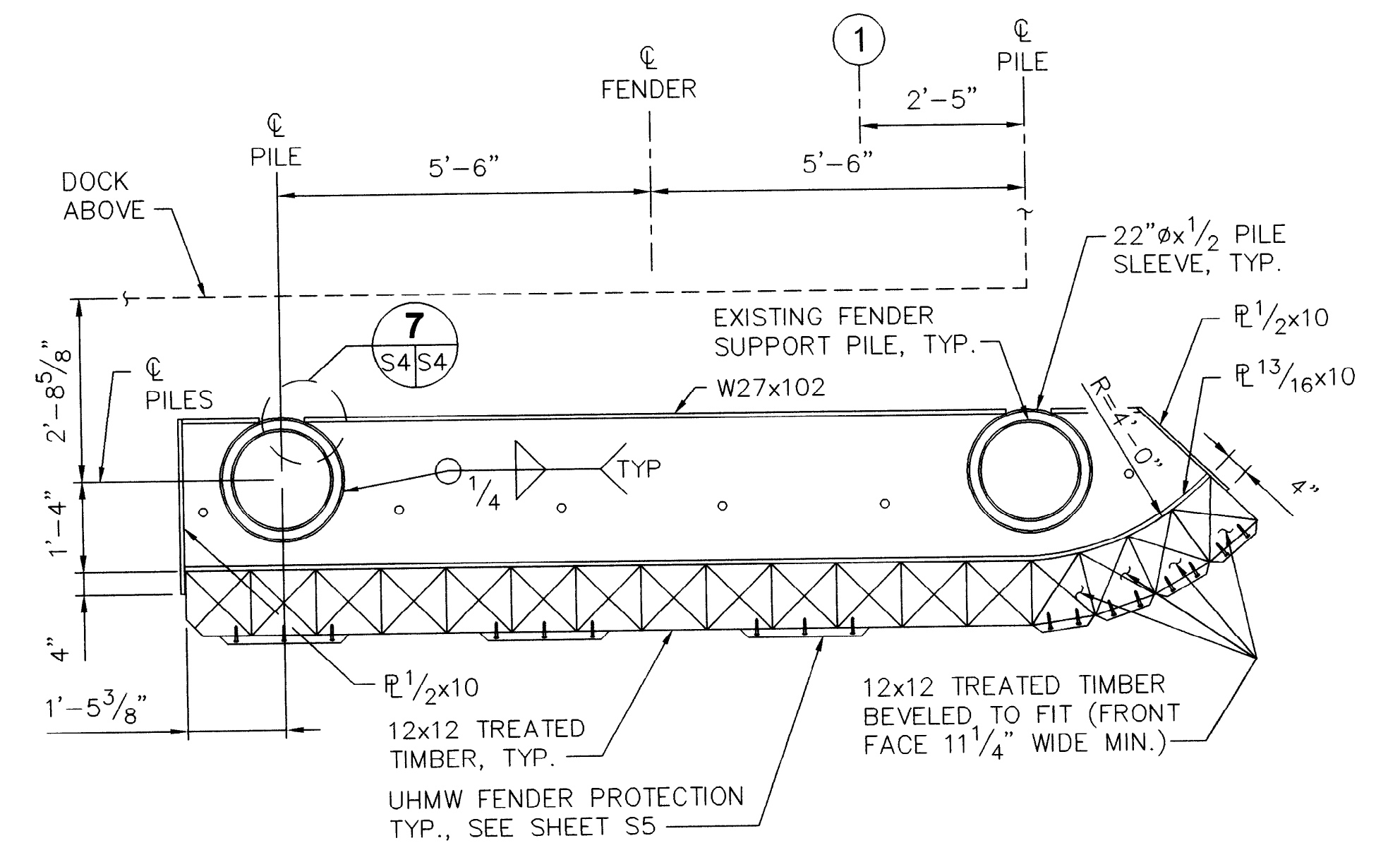
**5 DETAIL**  
S4|S4 1 1/2"=1'-0"



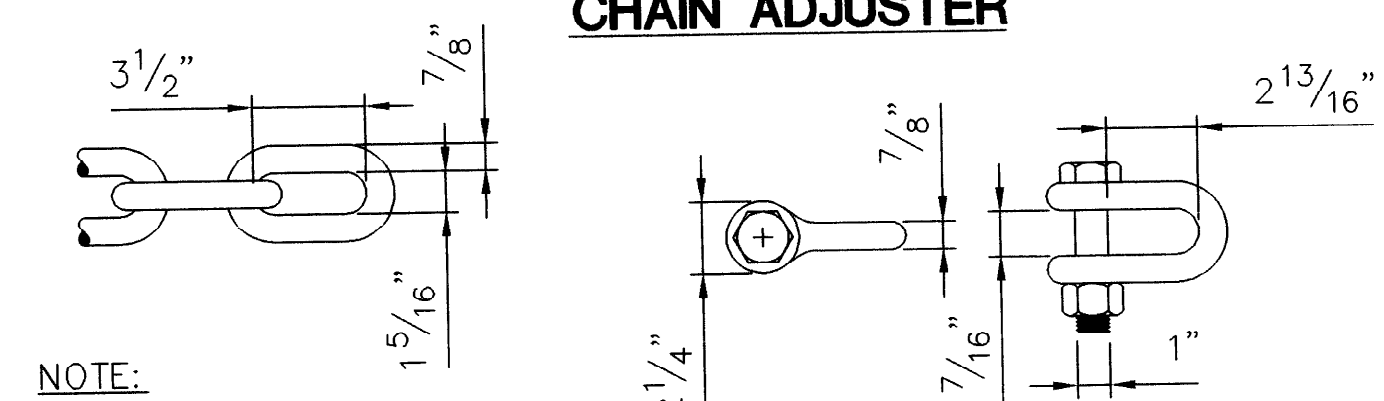
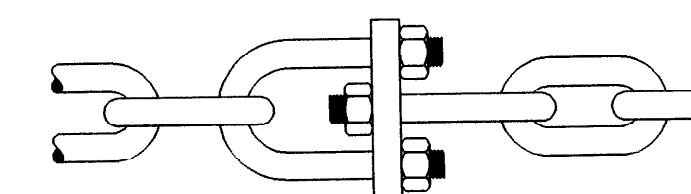
**6 DETAIL**  
S4|S4 1 1/2"=1'-0"



**7 DETAIL**  
S4|S4 1 1/2"=1'-0"



**2 CORNER FENDER - LOWER PLAN**  
S3|S4 1/2"=1'-0" GRID 8 OPP. HAND



NOTE:  
1. WEIGHT/LINK = 2.12 LBS  
2. MIN. BREAK LOAD GRADE 40 = 30 TONNES

**CHAIN LINK**

NOTE:  
1. WEIGHT = 3.93 LBS  
2. MIN. BREAK LOAD = 39 TONNES

**SHACKLE**

**4 CHAIN & CHAIN HARDWARE**  
S4|S4 NOT TO SCALE



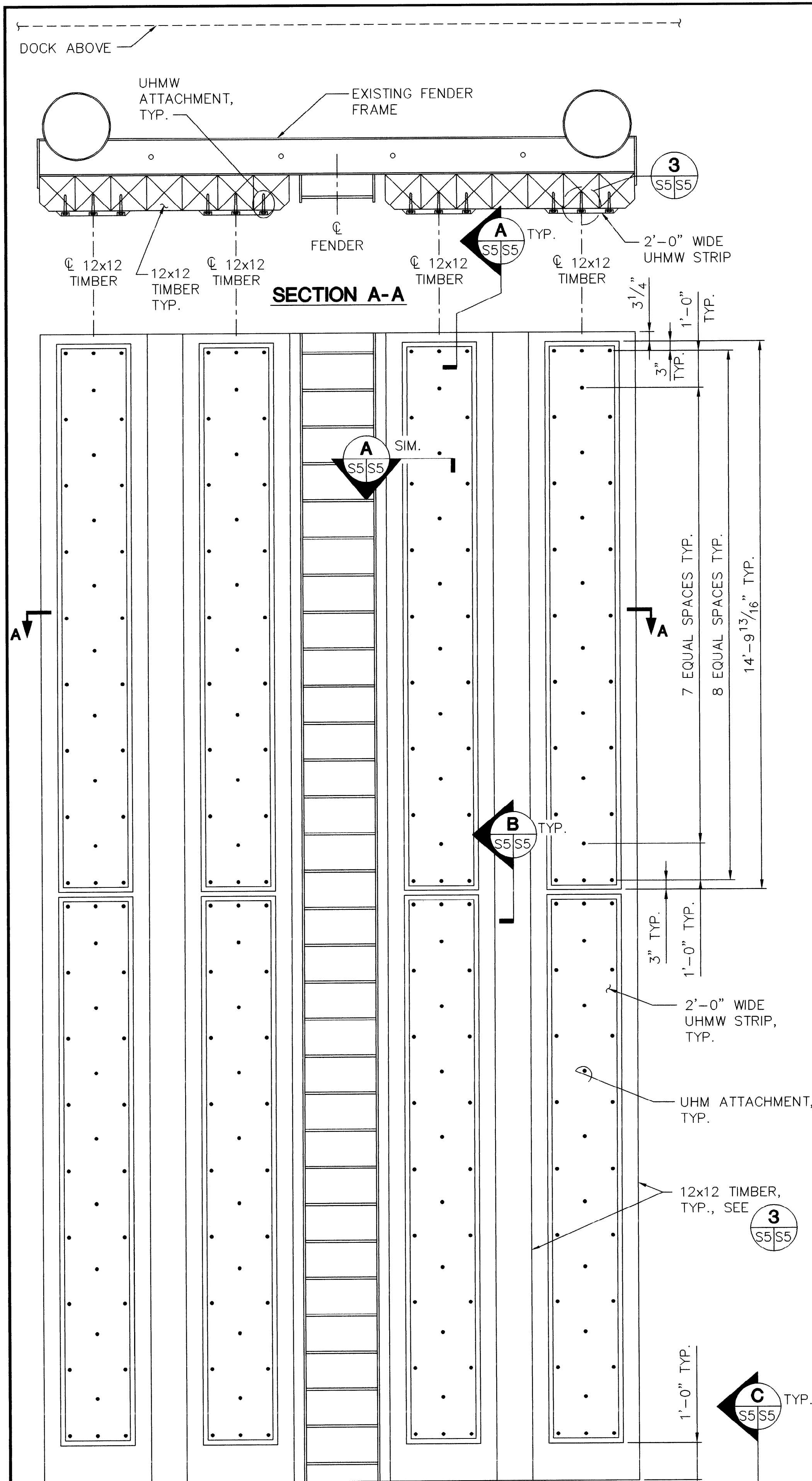
REV.	DATE	BY	REVISION

FIELD BOOKS	DESIGNED MJS
DESIGN -	DRAWN FDB
STAKING -	CHECKED MJS
AS-BUILT -	DATE
SCALE	GRID
HOR. AS NOTED	JOB NO. 5525.0
VER. N/A	

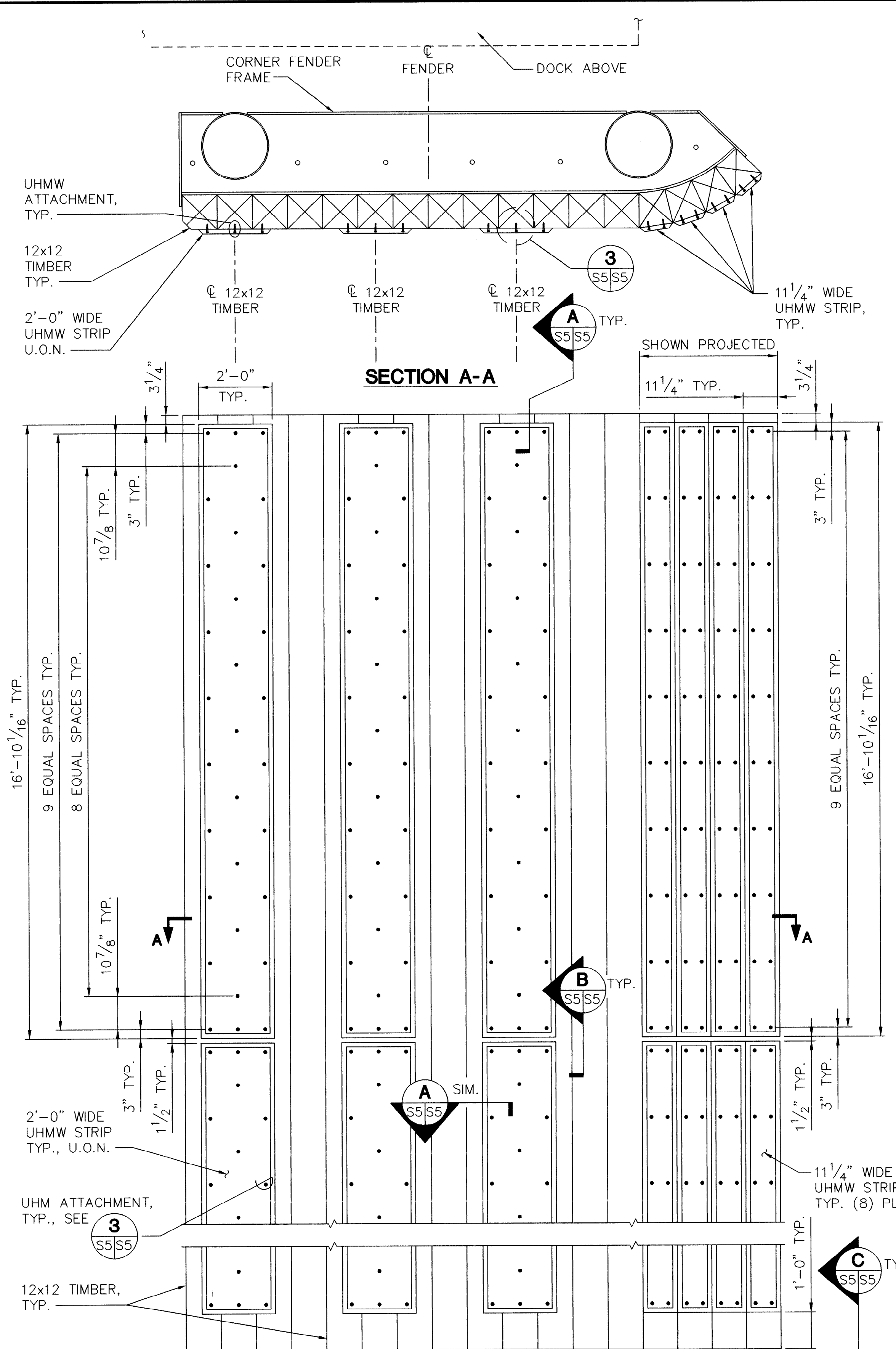
**TRYCK NYMAN HAYES, INC.**  
ENGINEERS/PLANNERS/SURVEYORS & LANDSCAPE ARCHITECTS

CITY OF HOMER PORT/HARBOR  
HOMER DEEP WATER DOCK  
**BERTH 1 NEW FENDER DETAILS & SECTIONS**  
FENDER UPGRADE 01585

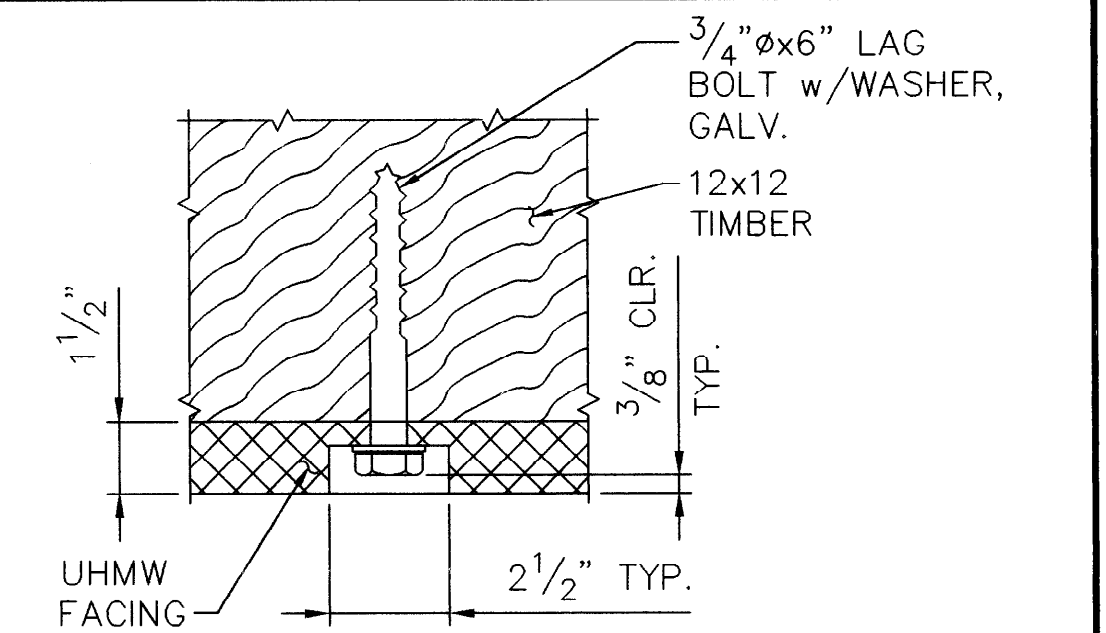
SHEET  
**S4** OF **8**  
FILE NAME  
55:55004.DWG



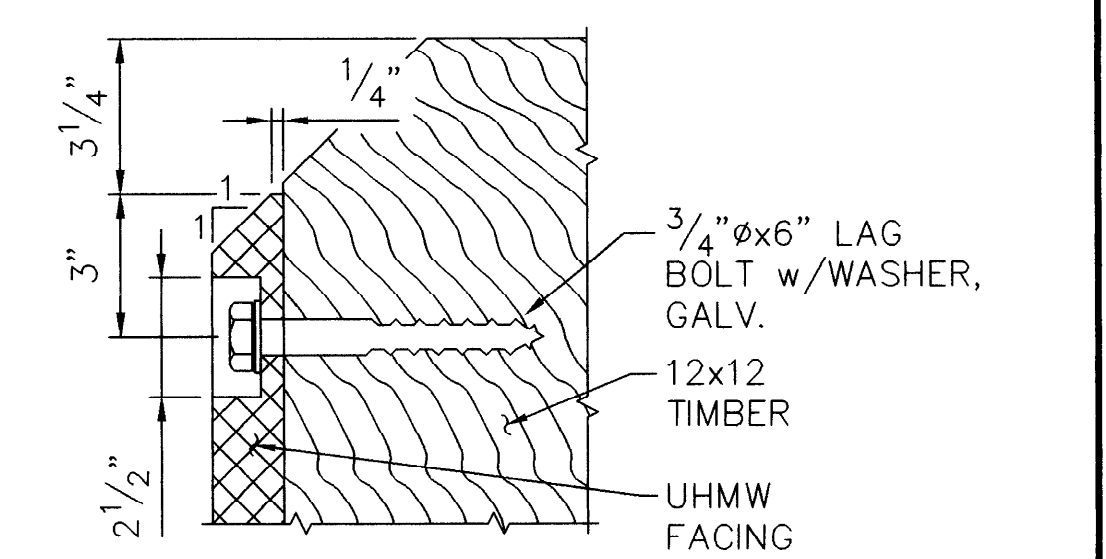
**1 TYPICAL FENDER UHMW FACING - ADD ALT.**  
S5/S5 1/2"=1'-0"



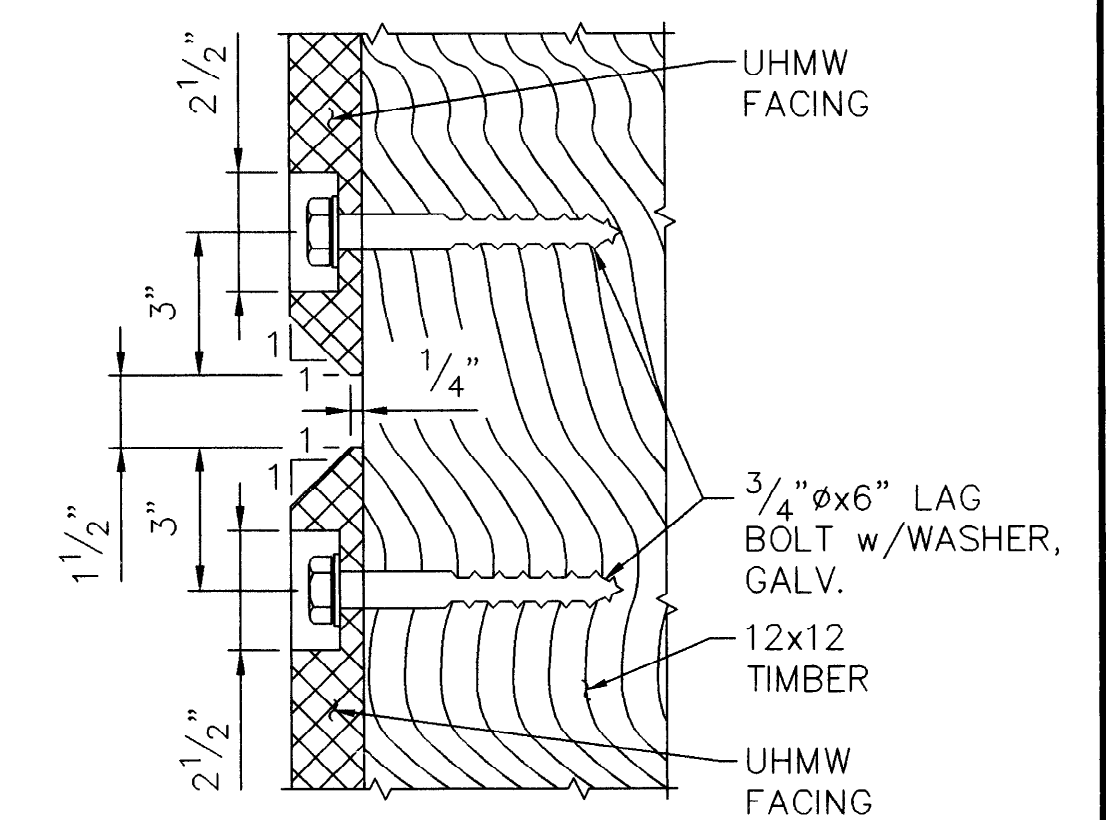
**2 CORNER FENDER UHMW FACING - BASE BID**  
S5/S5 1/2"=1'-0"



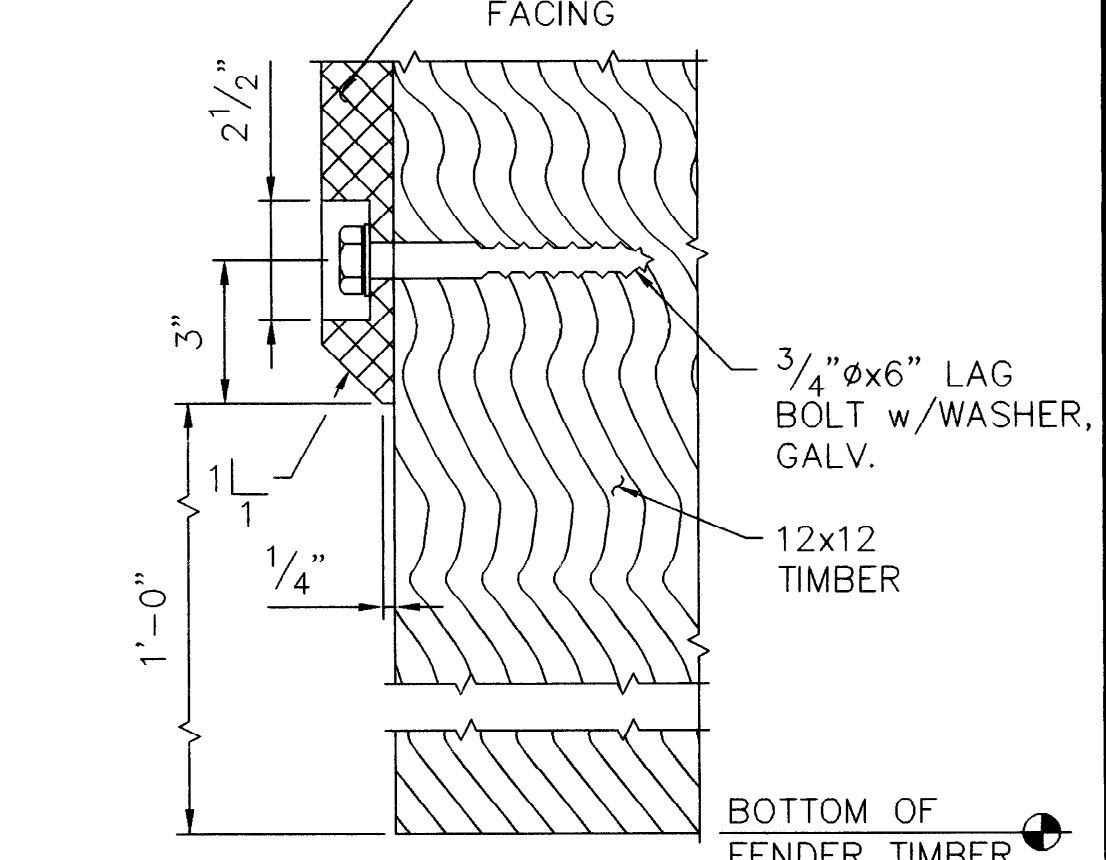
**3 TYPICAL UHMW ATTACHMENT**  
S5/S5 3"=1'-0"



**A SECTION**  
S5/S5 3"=1'-0"



**B SECTION**  
S5/S5 3"=1'-0"



**C SECTION**  
S5/S5 3"=1'-0"



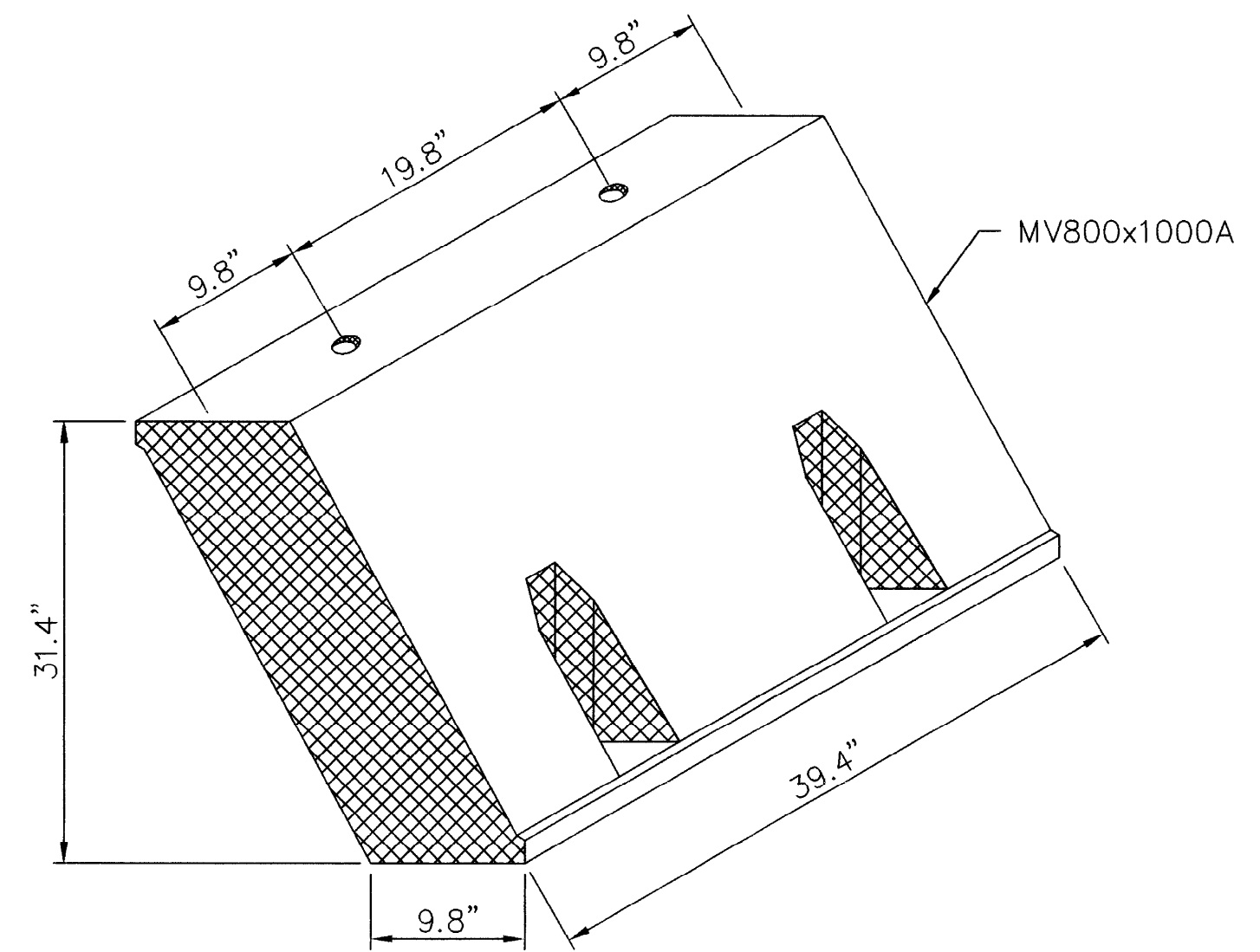
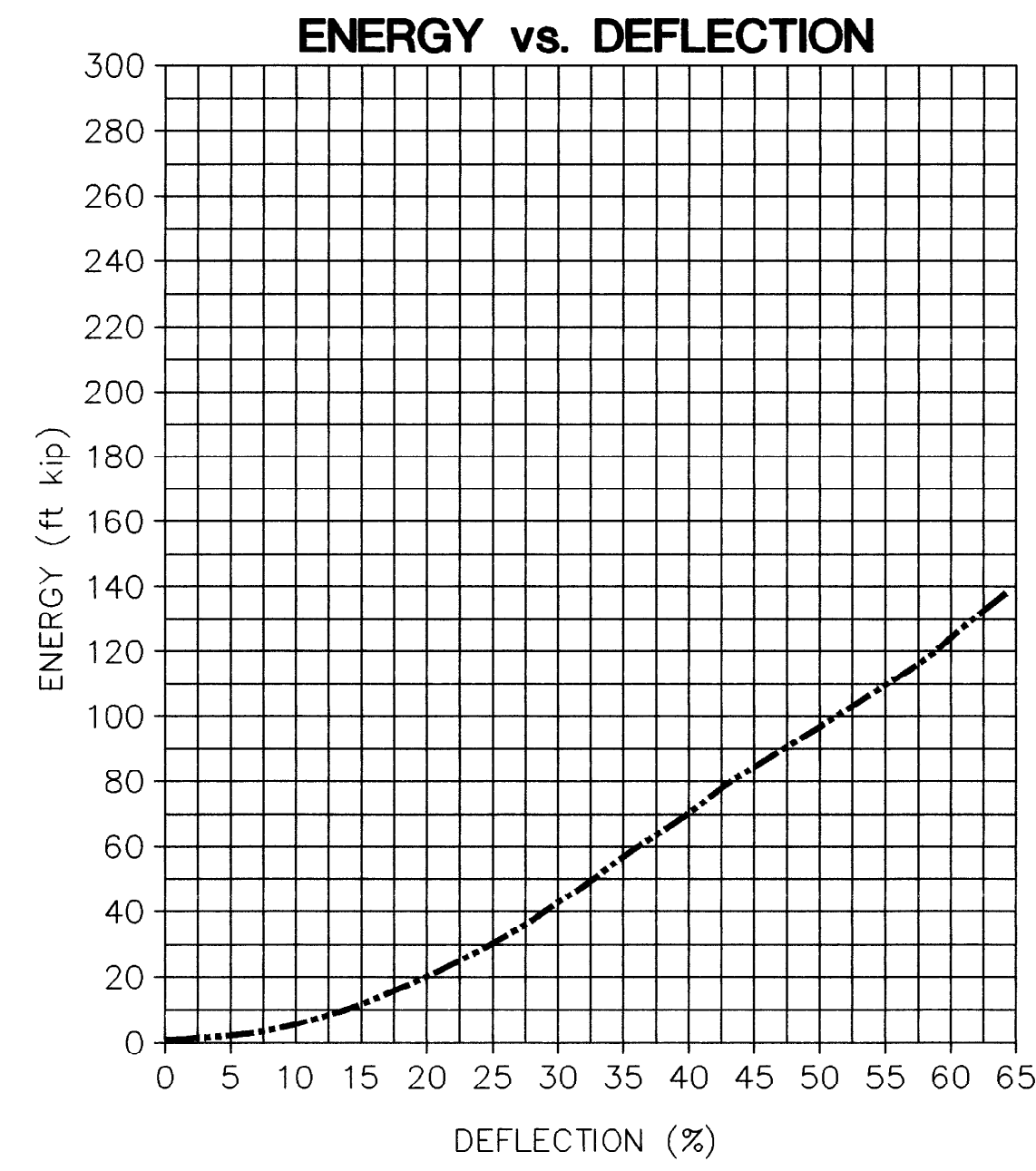
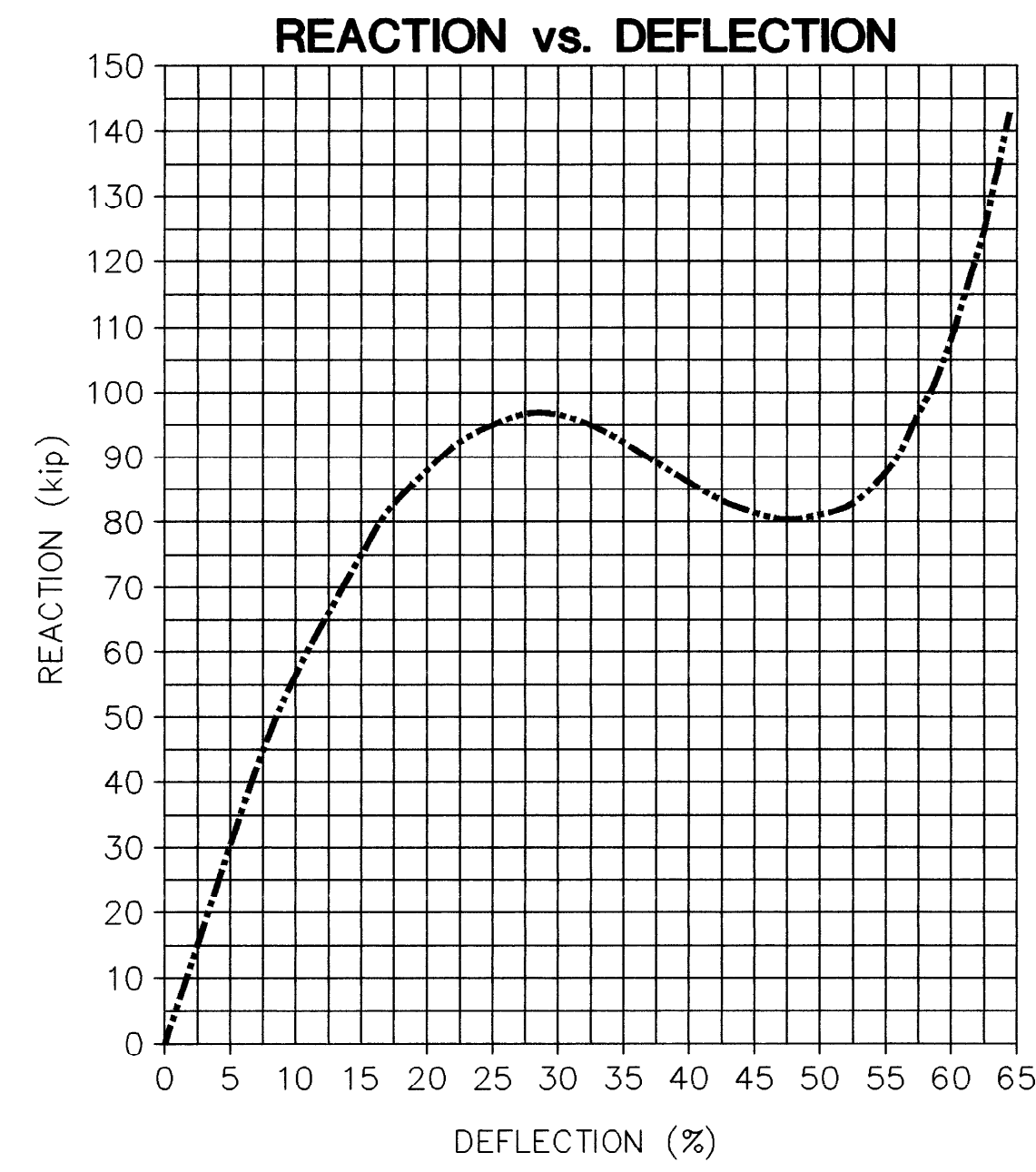
REV.	DATE	BY	REVISION

**TRYCK NYMAN HAYES, INC.**  
ENGINEERS-PLANNERS-SURVEYORS & LANDSCAPE ARCHITECTS

CITY OF HOMER PORT/HARBOR  
HOMER DEEP WATER DOCK  
**BERTH 1 NEW FENDER UHMW FACING**  
FENDER UPGRADE 01586

SHEET  
**S5** OF **8**  
FILE NAME  
5525S005.DWG

PLOT SCALE: 1:1



- NOTES:**
1. GENERAL TOLERANCE FOR THE PERFORMANCE OF THE OF THE ABOVE FENDER IS +/-10%.
  2. RATED REACTION = 96 kips  
 RATED ENERGY = 116 ft-kips  
 RATED DEFLECTION = 18.1 in

**TRELLEX MORSE MV800x1000A FENDER ELEMENT**  
 NOT TO SCALE



PLOT SCALE: 1:1

REV.			DATE	BY	REVISION	FIELD BOOKS	DESIGNED UKN	<b>TRYCK          NYMAN          HAYES, INC.</b> <small>ENGINEERS/PLANNERS/SURVEYORS          &amp; LANDSCAPE ARCHITECTS</small>	CITY OF HOMER PORT/HARBOR HOMER DEEP WATER DOCK <b>RUBBER FENDER          DESIGN DATA</b> FENDER UPGRADE 01587	SHEET <b>S6</b> OF <b>8</b> FILE NAME 5525S006.DWG
DESIGN			—			—	DRAWN FDB			
STAKING			—			—	CHECKED MJS			
AS-BUILT			—			—	DATE			
SCALE			AS NOTED			—	GRID			
VER.			N/A			—	JOB NO. 5525.0			



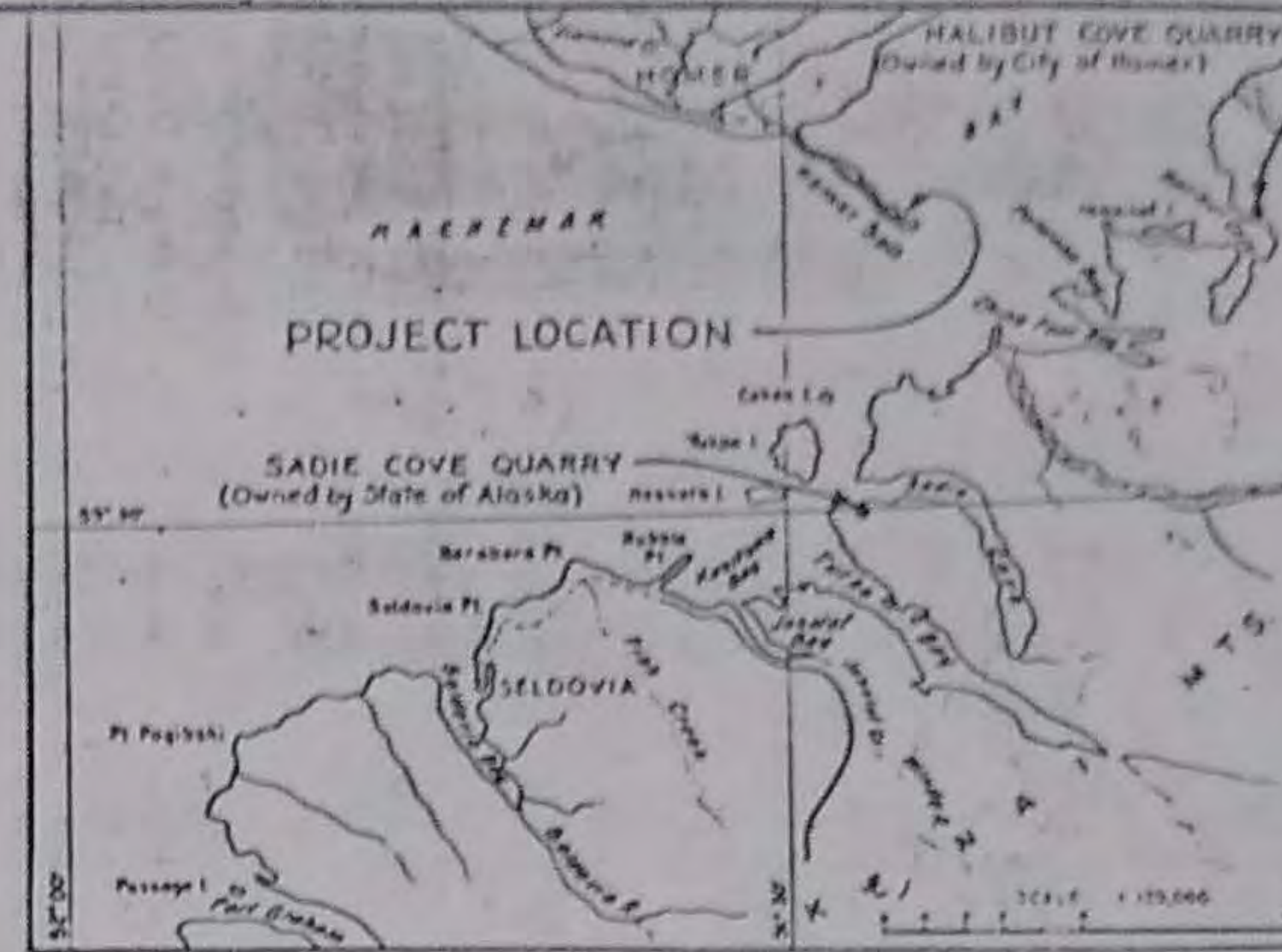
**TIDAL DATUM PLANES**

DATUM PLANE (USC & GS)	EL. IN FEET
HIGHEST TIDE (ESTIMATED)	+25.1
MEAN HIGH HIGH WATER	+18.1
MEAN HIGH WATER	+17.5
HALF TIDE LEVEL	+9.55
MEAN LOW WATER	+1.6
MEAN LOWER LOW WATER	0.0
LOWEST TIDE (ESTIMATED)	-6.0

TIDAL DATUM PLANES ARE BASED ON 25 HIGHER AND 25 LOWER WATERS OBSERVED BY THE U.S.C. & G.S. FROM 5 OCT. TO 17 NOV. 1962.

**NOTES**

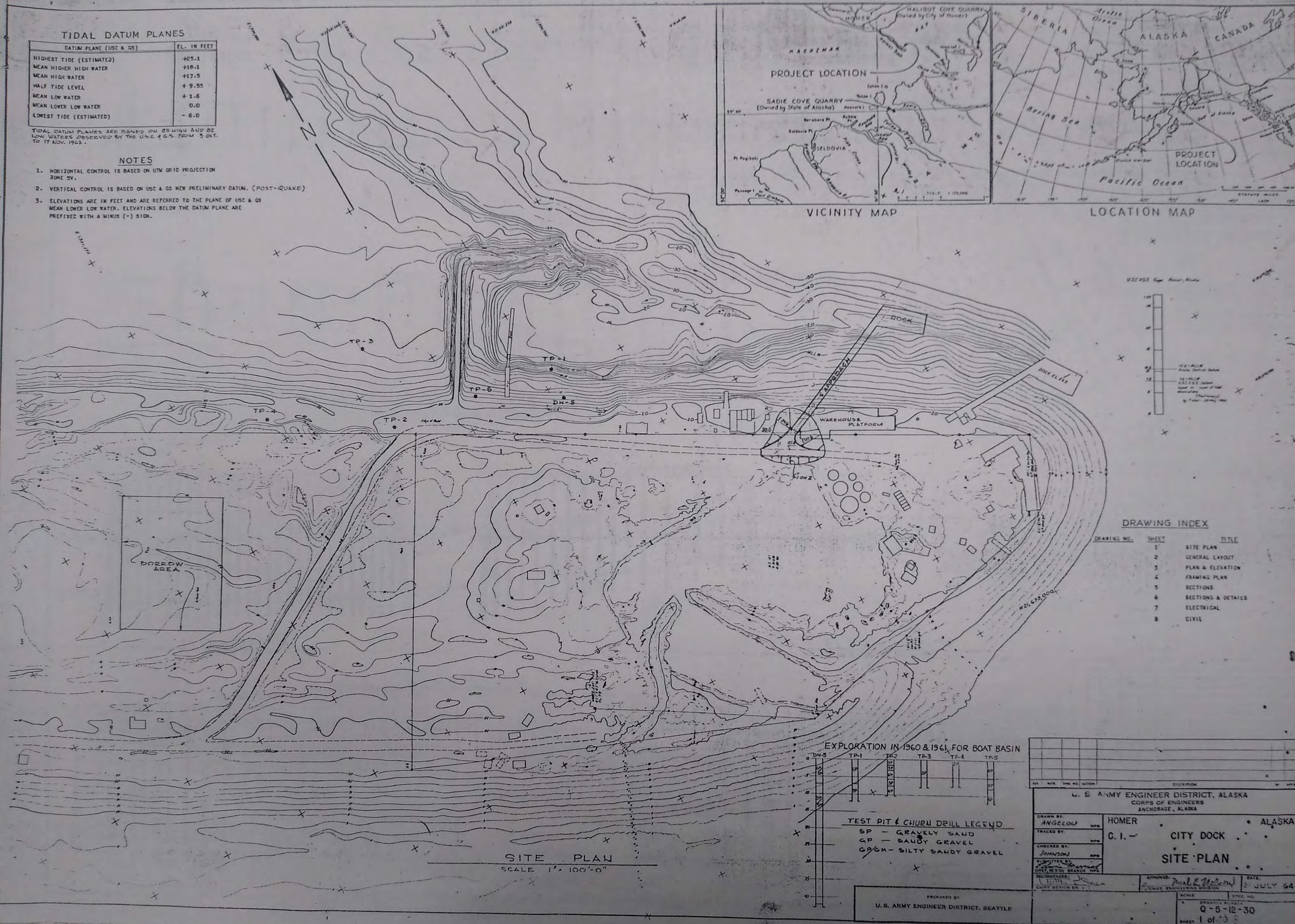
1. HORIZONTAL CONTROL IS BASED ON UTM GRID PROJECTION ZONE 5V.
2. VERTICAL CONTROL IS BASED ON USC & GS NEW PRELIMINARY DATUM. (POST-QUAKE)
3. ELEVATIONS ARE IN FEET AND ARE REFERRED TO THE PLANE OF USC & GS MEAN LOWER LOW WATER. ELEVATIONS BELOW THE DATUM PLANE ARE PREFIXED WITH A MINUS (-) SIGN.



VICINITY MAP



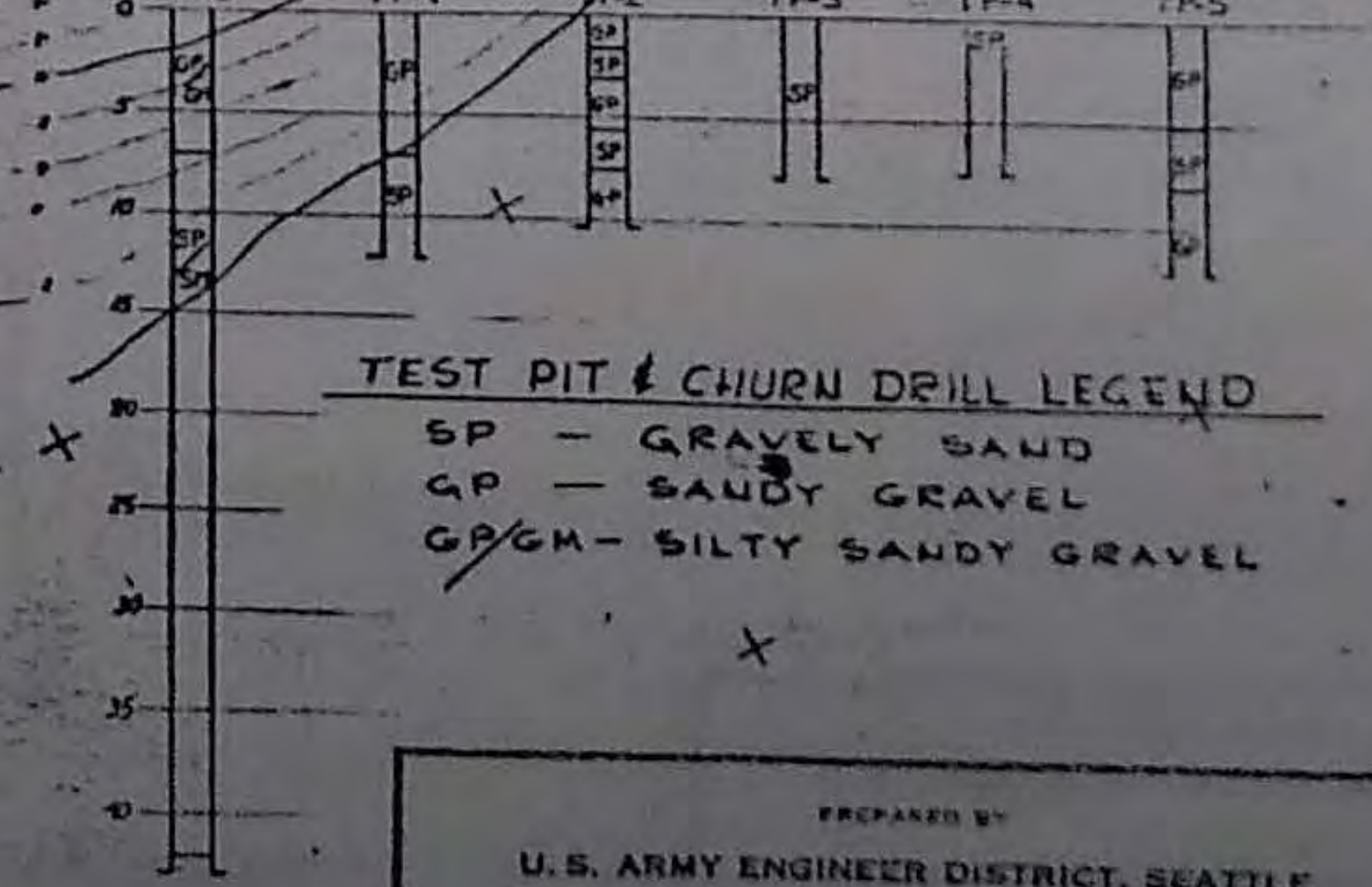
LOCATION MAP



**DRAWING INDEX**

DRAWING NO.	SHEET	TITLE
	1	SITE PLAN
	2	GENERAL LAYOUT
	3	PLAN & ELEVATION
	4	FRAMING PLAN
	5	SECTIONS
	6	SECTIONS & DETAILS
	7	ELECTRICAL
	8	CIVIL

**EXPLORATION IN 1960 & 1961 FOR BOAT BASIN**



**TEST PIT & CHURN DRILL LEGEND**  
 SP - GRAVELY SAND  
 GP - SANDY GRAVEL  
 GSGM - SILTY SANDY GRAVEL

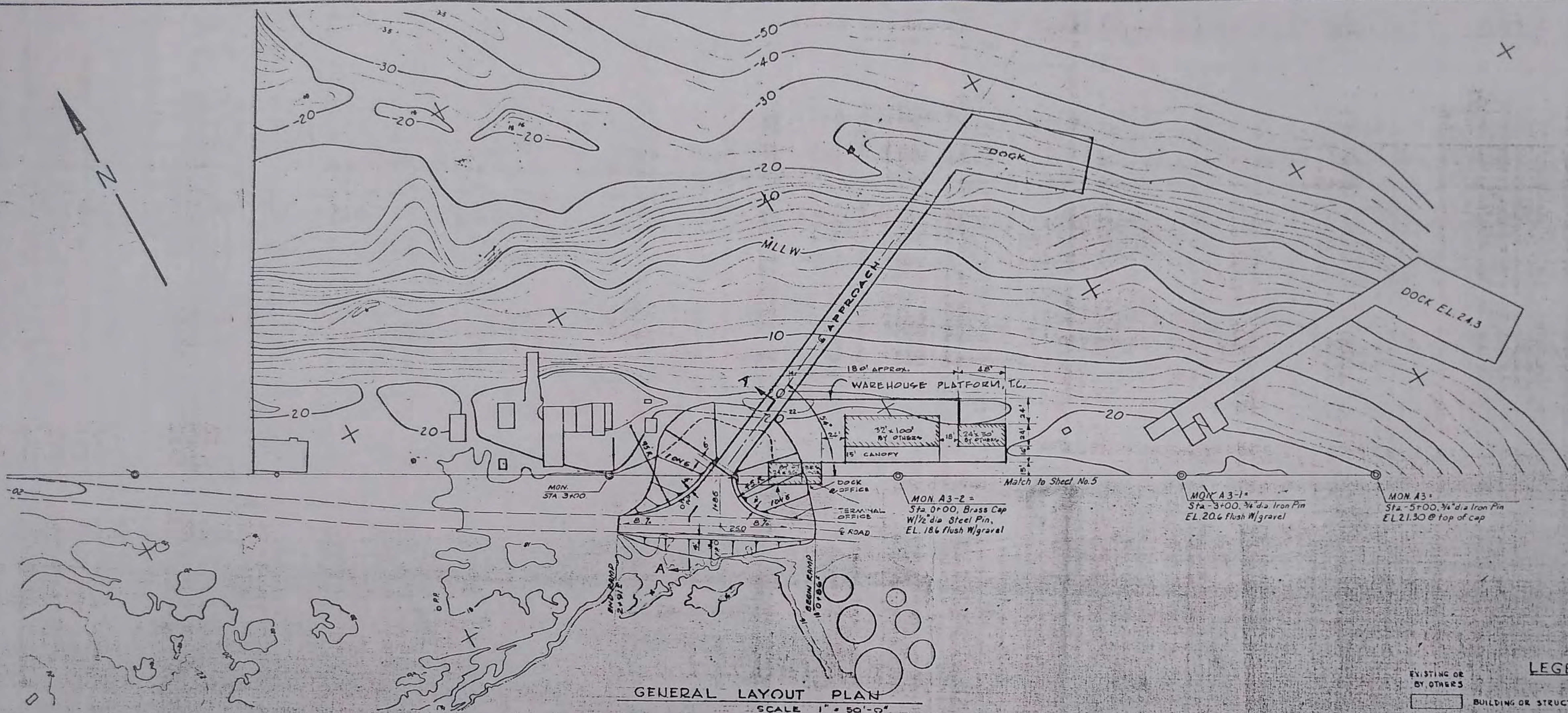
**SITE PLAN**

SCALE 1" = 100'-0"

PREPARED BY  
 U.S. ARMY ENGINEER DISTRICT, SEATTLE

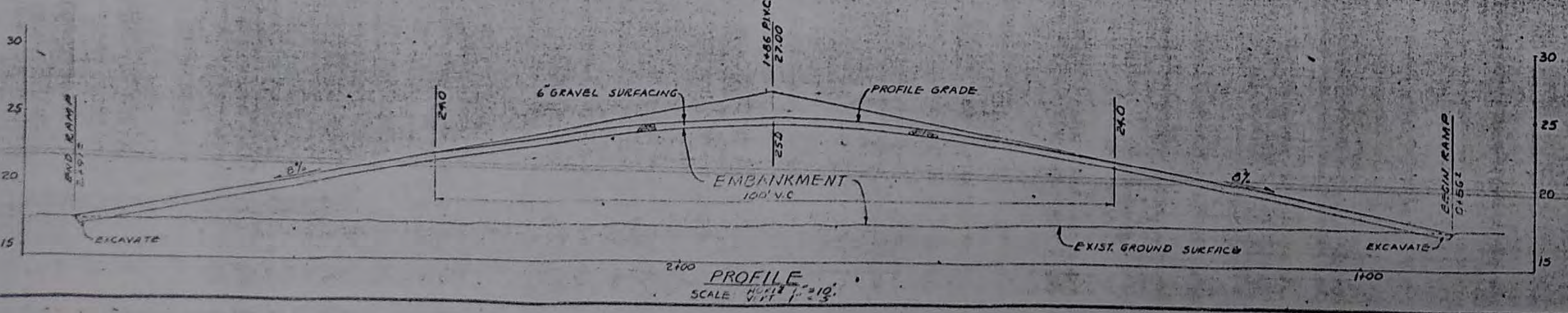
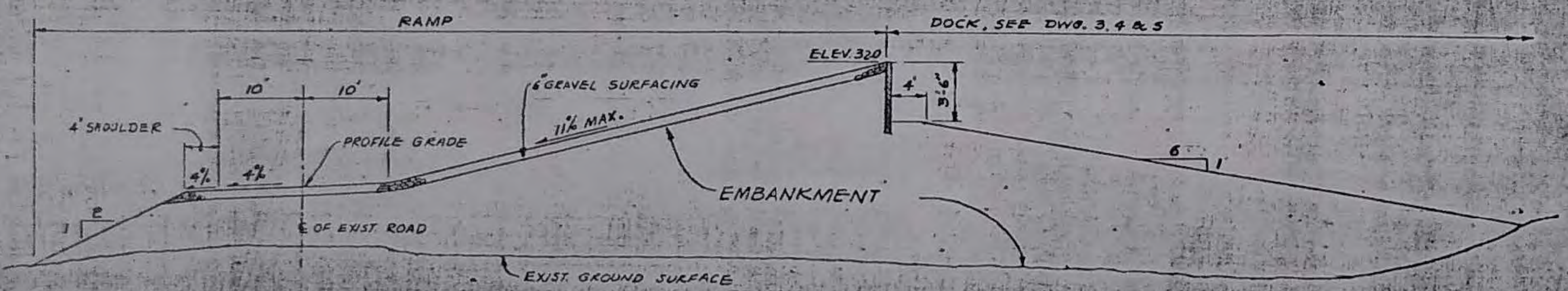
U.S. ARMY ENGINEER DISTRICT, ALASKA CORPS OF ENGINEERS ANCHORAGE, ALASKA	
DRAWN BY ANGELOU	HOMER
TRACED BY	C. I. -
CHECKED BY JOHNSON	ALASKA
SUBMITTED BY CHIEF DESIGN BRANCH	CITY DOCK
RECORDED BY	<b>SITE PLAN</b>
CHIEF DESIGN BRANCH	APPROVED: [Signature]
	DATE: 3 JULY 64
	SCALE: 1" = 100'-0"
	DRAWING NUMBER: Q-5-12-30
	SHEET: 1 of 8





**LEGEND**

EXISTING OR BY OTHERS	THIS CONTRACT
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]



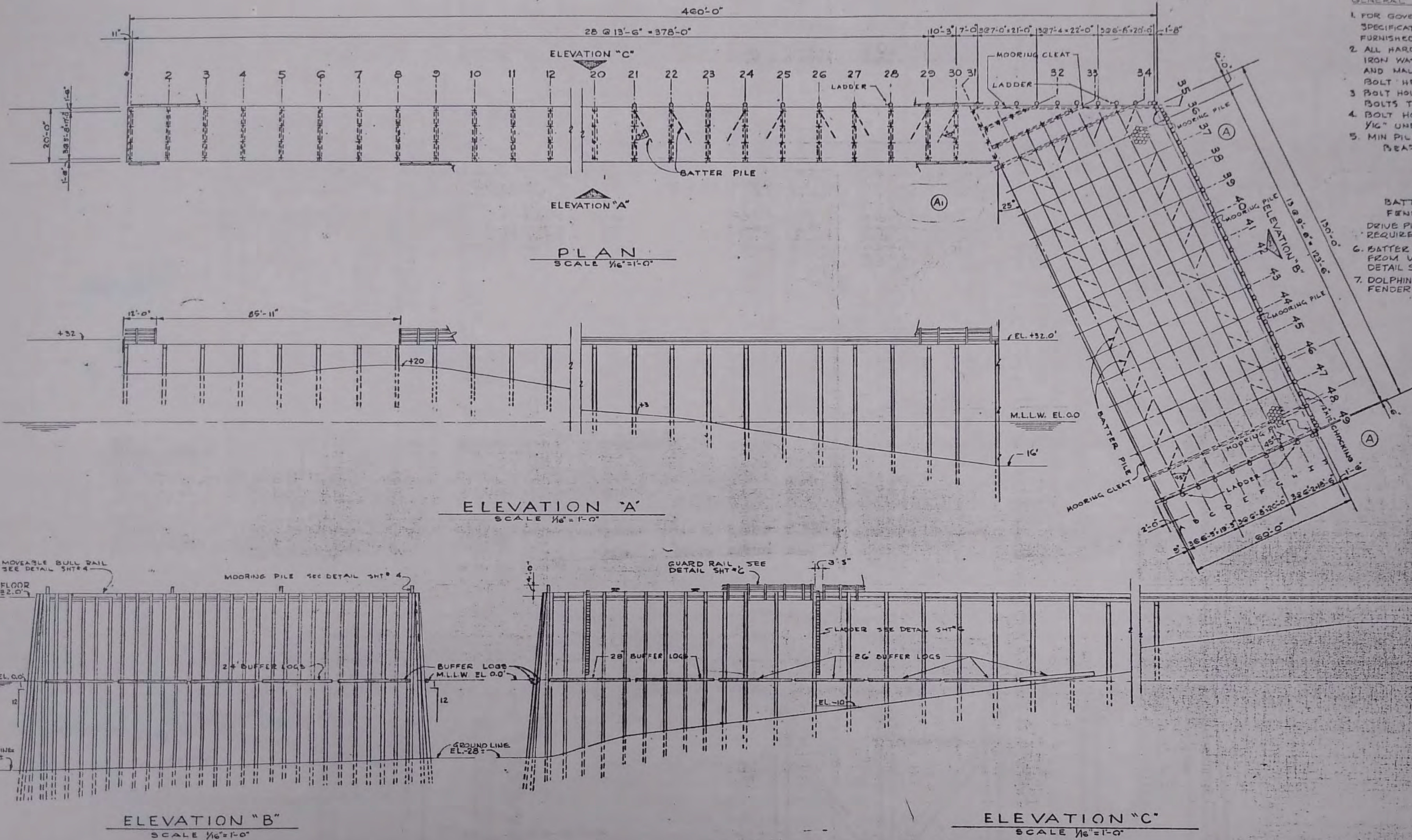
SYMBOL	DESCRIPTION	DATE	APPROVAL

U. S. ARMY ENGINEER DISTRICT, ALASKA  
CORPS OF ENGINEERS  
ANCHORAGE, ALASKA

REVISIONS

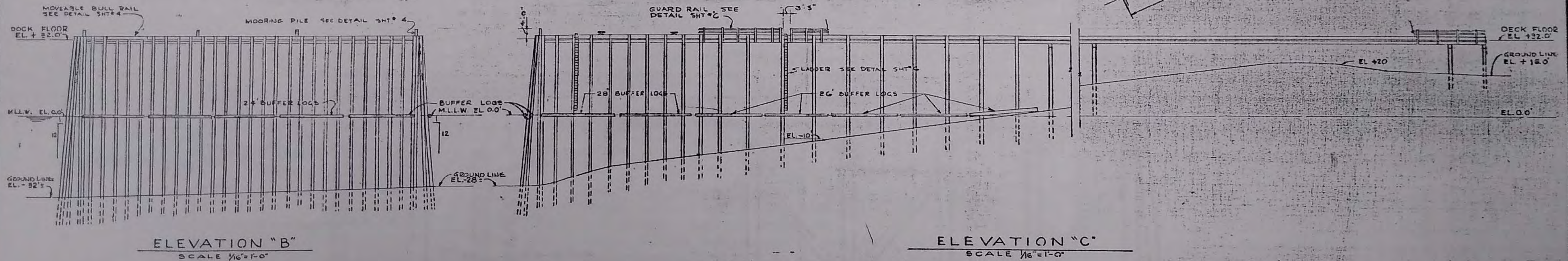
DRAWN BY: ANGELOU	NPS	HOMER	ALASKA
TRACED BY: ANGELOU	NPS	C.I.-	CITY DOCK
CHECKED BY: HEKKANEN	NPS		GENERAL LAYOUT
SUBMITTED BY: [Signature]	NPS		
DESIGNED BY: [Signature]	NPS		
CHECKED BY: [Signature]	NPS		
APPROVED: [Signature]	CHIEF ENGINEERING DIVISION	DATE: 31 JULY 64	
PREPARED BY: U. S. ARMY ENGINEER DISTRICT, SEATTLE	SCALE: [Blank]	SPEC. NO.:	DRAWING NUMBER: Q-5-12-30
			SHEET 2 of





- GENERAL NOTES**
- FOR GOVERNMENT FURNISHED MATERIALS SEE SPECIFICATIONS. ALL OTHER MATERIAL TO BE CONTRACTOR FURNISHED
  - ALL HARDWARE TO BE GALVANIZED WITH MALLEABLE IRON WASHERS BETWEEN NUT & WOOD SURFACES AND MALLEABLE IRON WASHERS BETWEEN MACHINE BOLT HEAD & WOOD SURFACES
  - BOLT HOLES FOR MACHINE BOLTS & ECONOMY BOLTS TO BE DRILLED TRUE SIZE.
  - BOLT HOLES FOR DRIFT BOLTS TO BE DRILLED 1/16" UNDER SIZE
  - MIN PILE PENETRATIONS BEARING PILES APPROACH
 

15'	BENT 1-12
20'	BENT 13-22
25'	BENT 23-31
  - DOCK BATTER PILES 25' FENDER PILES 15'
  - DRIVE PILES TO PENETRATIONS AS INDICATED OR TO REQUIRED TOP ELEVATION - WHICHEVER OCCURS FIRST.
  - BATTER PILES TO BE DRIVEN AT SLOPE OF 5:12 FROM VERTICAL. (EXCEPT DOLPHIN PILES, SEE DETAIL SHEET 6, FOR BATTER)
  - DOLPHIN PILES SHALL NOT EXTEND SEAWARD OF FENDER PILES ABOVE EL. 30.



**PILE SCHEDULES**

\* LENGTH INCLUDES 3'-0" TO BE CUT OFF WHICH WILL BE DAMAGED IN DRIVING OF THE PILES.

APPROACH CLASS "A" BEARING PILES		
BENT NUMBER	NUMBER OF PILES	LENGTH IN FEET
1, 2, 3, 4, 5, 6, 7, 8, 9, 10	42	30
11, 12	4	35
13	4	40
14, 15, 16	12	45
17, 18, 19, 20	16	50
21, 22	8	55
23	4	60
24, 25	8	65
26, 27, 28	12	70
29, 30, 31	12	75

DOCK CLASS "A" BEARING PILES												
COLUMN LINE	BENT NUMBER											
	32	33	34	35	36	37	38	39	40	41	42	43
A	75	75	75	75	70	70	70	70	70	70	70	70
B	75	75	75	75	75	75	75	75	75	75	75	75
C	75	75	75	75	75	75	75	75	75	75	75	75
D	75	75	75	75	75	75	75	75	75	75	75	75
E	75	75	75	75	75	75	75	75	75	75	75	75
F	75	80	80	80	80	80	80	80	80	80	80	80
G		80	80	80	80	80	80	80	80	80	80	80
H		80	80	80	80	80	80	80	80	80	80	80
I		85	85	85	85	85	85	85	85	85	85	85
J		85	85	85	85	85	85	85	85	85	85	85

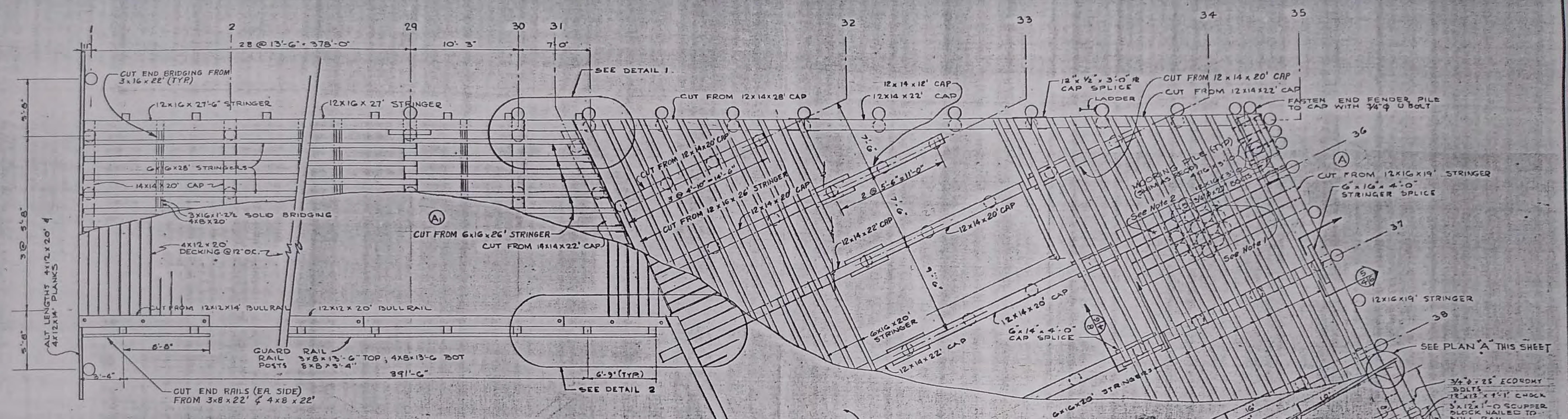
BATTER PILES CLASS "A"				
DOCK	APPROACH	BENT		NUMBER OF PILES
		21, 22, 23, 25	26, 27, 28, 30	
NUMBER OF PILES	LENGTH IN FEET	NUMBER OF PILES	LENGTH IN FEET	
32	85	4	70	4
				75

FENDER PILES CLASS "B"		
BENT NUMBER	NUMBER OF PILES	LENGTH IN FEET
47-A, 47-B	2	65
47-C, 47-D, 47-E	3	70
47-F, 47-G	2	75
47-H, 47-I	2	80
47-J	5	85
35 THRU 48-S	31	85
35-A, 35-B, 35-C, 35-D	4	70
35-E, 35-F, 35-G, 35-H	4	75
35-I	1	60
29, 30	2	70
26, 27, 28	3	65
24, 25	2	60
23, 22, 21	3	55

MOORING PILES CLASS "B"	
NUMBER OF PILES	LENGTH IN FEET
4	85

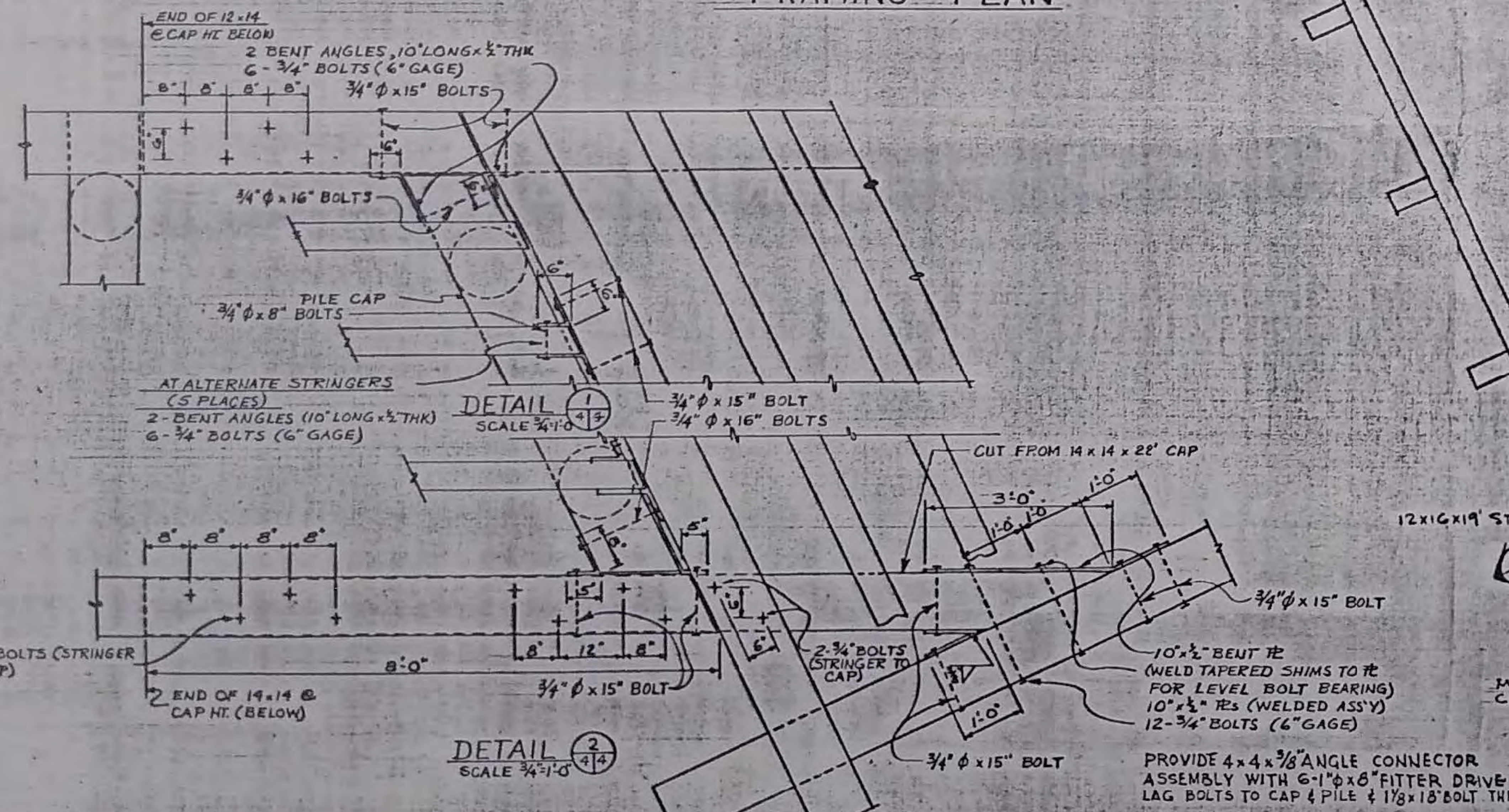
REV	DATE	ENG. NO.	ACTION	DESCRIPTION	BY	APP'D.
A	4-1-65	3	P	ADD 19 PILE DOLPHIN (1) DELETED FIRE WALL		
<b>U. S. ARMY ENGINEER DISTRICT, ALASKA</b> CORPS OF ENGINEERS ANCHORAGE, ALASKA						
DRAWN BY: SIMMONS		HOMER		ALASKA		
TRACED BY: JOHNSON		C.I. -		CITY DOCK		
CHECKED BY: JOHNSON				PLAN & ELEVATION		
SUBMITTED BY: [Signature]		APPROVED: [Signature]		DATE: 21 JULY 64		
RECOMMENDED: [Signature]		CHIEF ENGINEERING DIVISION		SCALE: 1/8" = 1'-0"		
CHIEF DESIGN BR.		PREPARED BY: U.S. ARMY ENGINEER DISTRICT, SEATTLE		DRAWING NUMBER: Q-5-12-30		
				SHEET: 3 of 3		





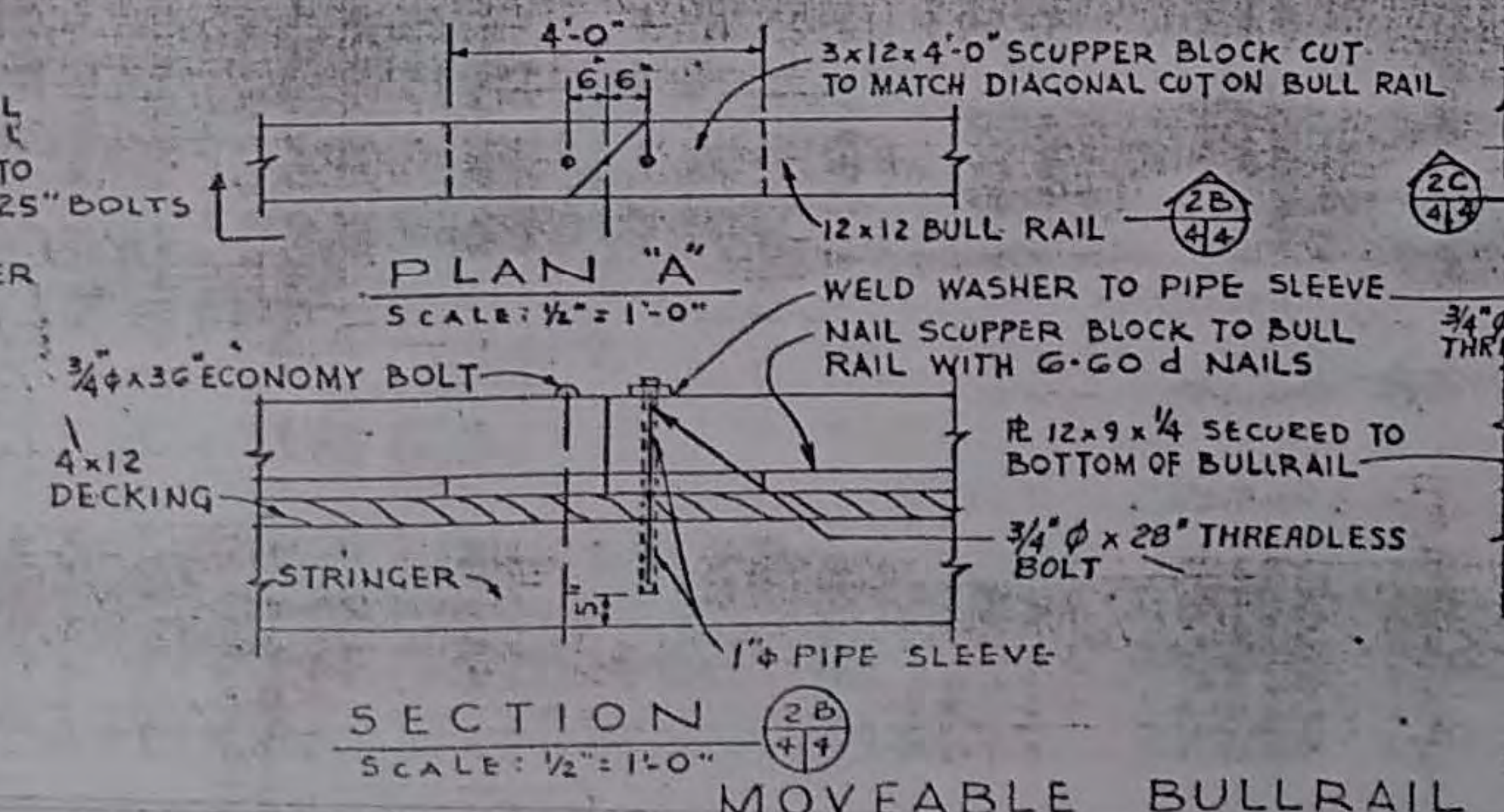
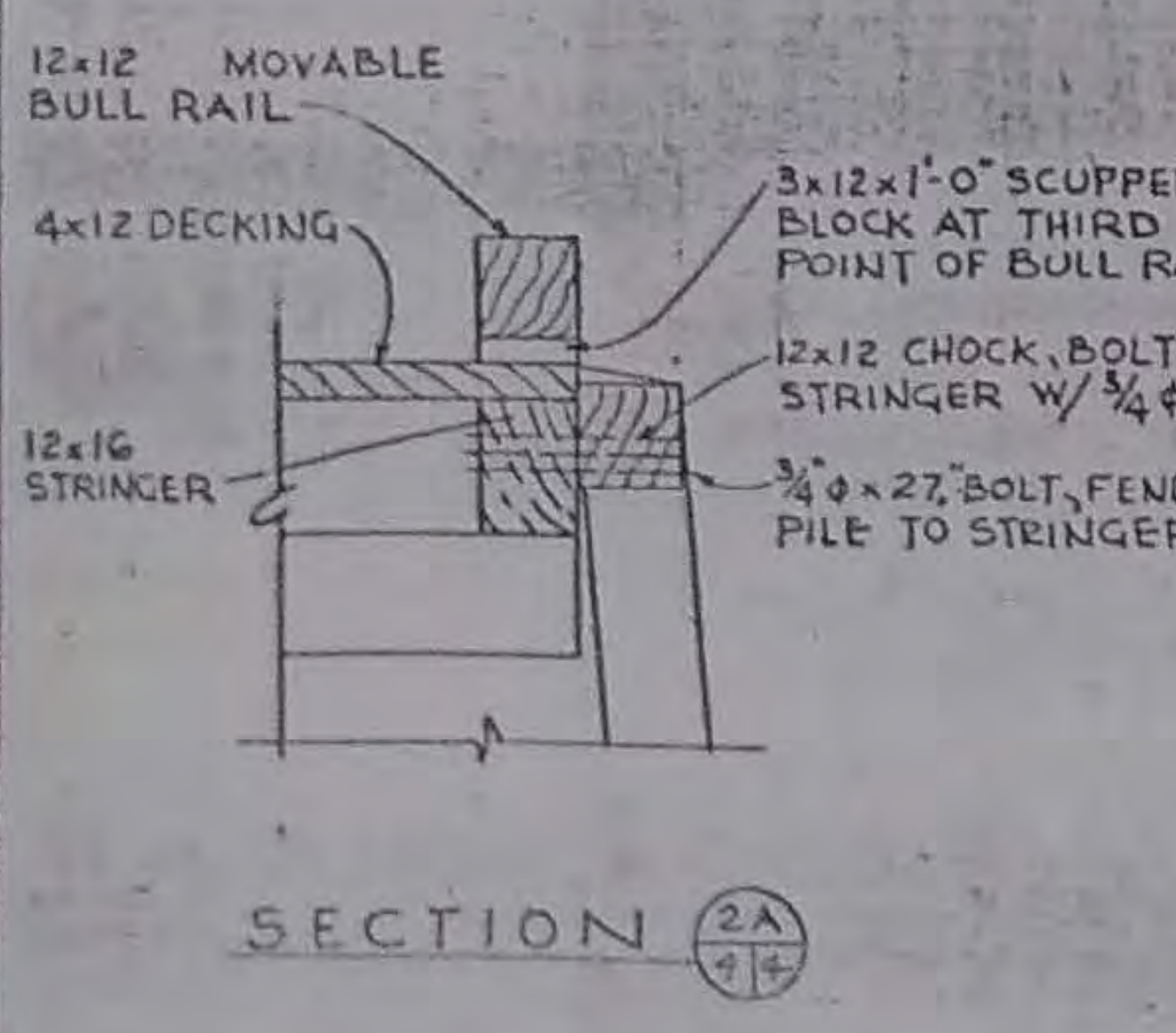
FRAMING PLAN

4x12 S1S DECKING @ 12" O.C. SPIKE IN PLACE WITH 3/8" x 8" GALV. BOAT SPIKES, ONE SPIKE AT EACH END OF PLANK (PROVIDE 1/8" HOLE IN DECKING FOR BOAT SPIKES)

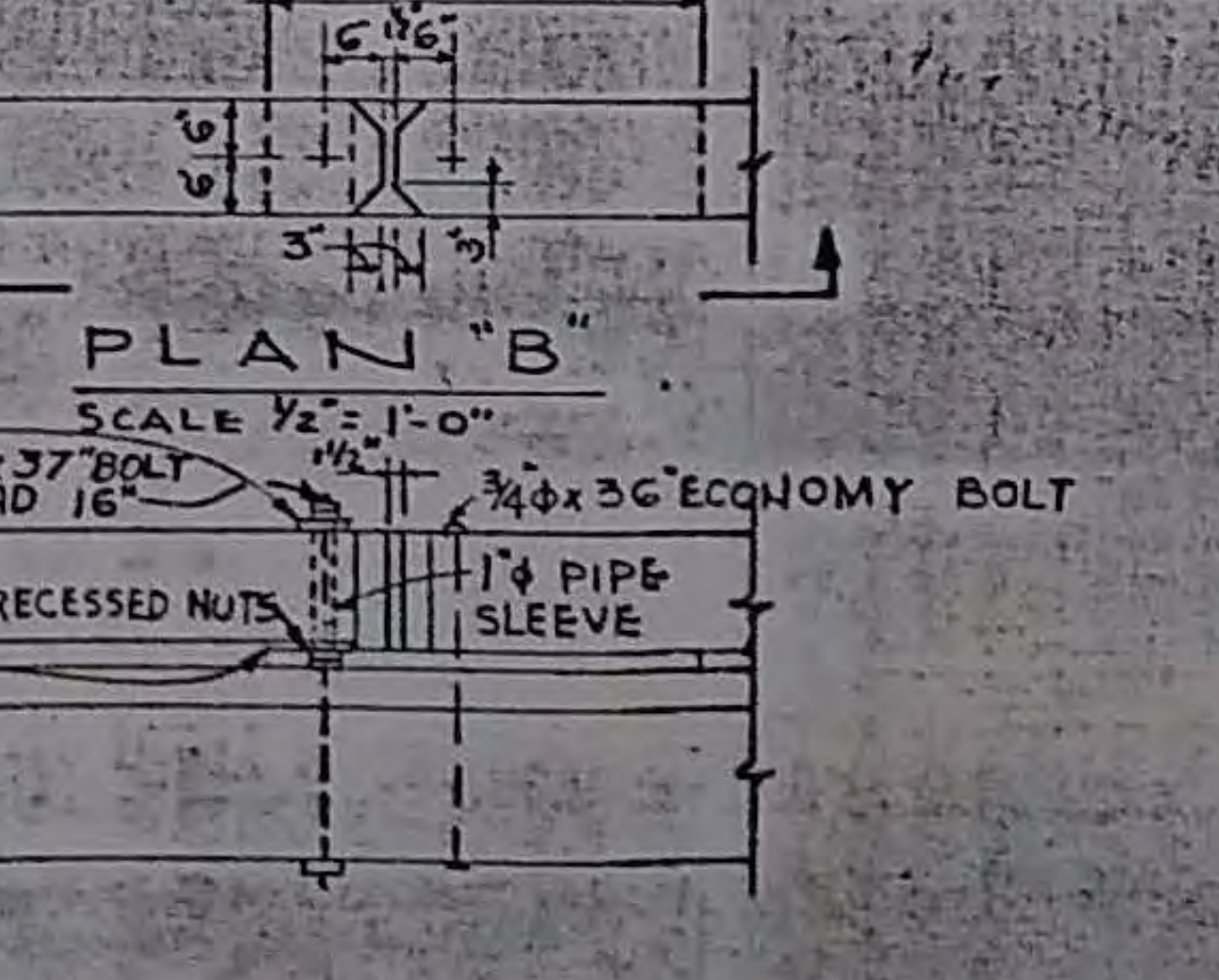


DETAIL 1  
SCALE 3/4" = 1'-0"

DETAIL 2  
SCALE 3/4" = 1'-0"



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



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

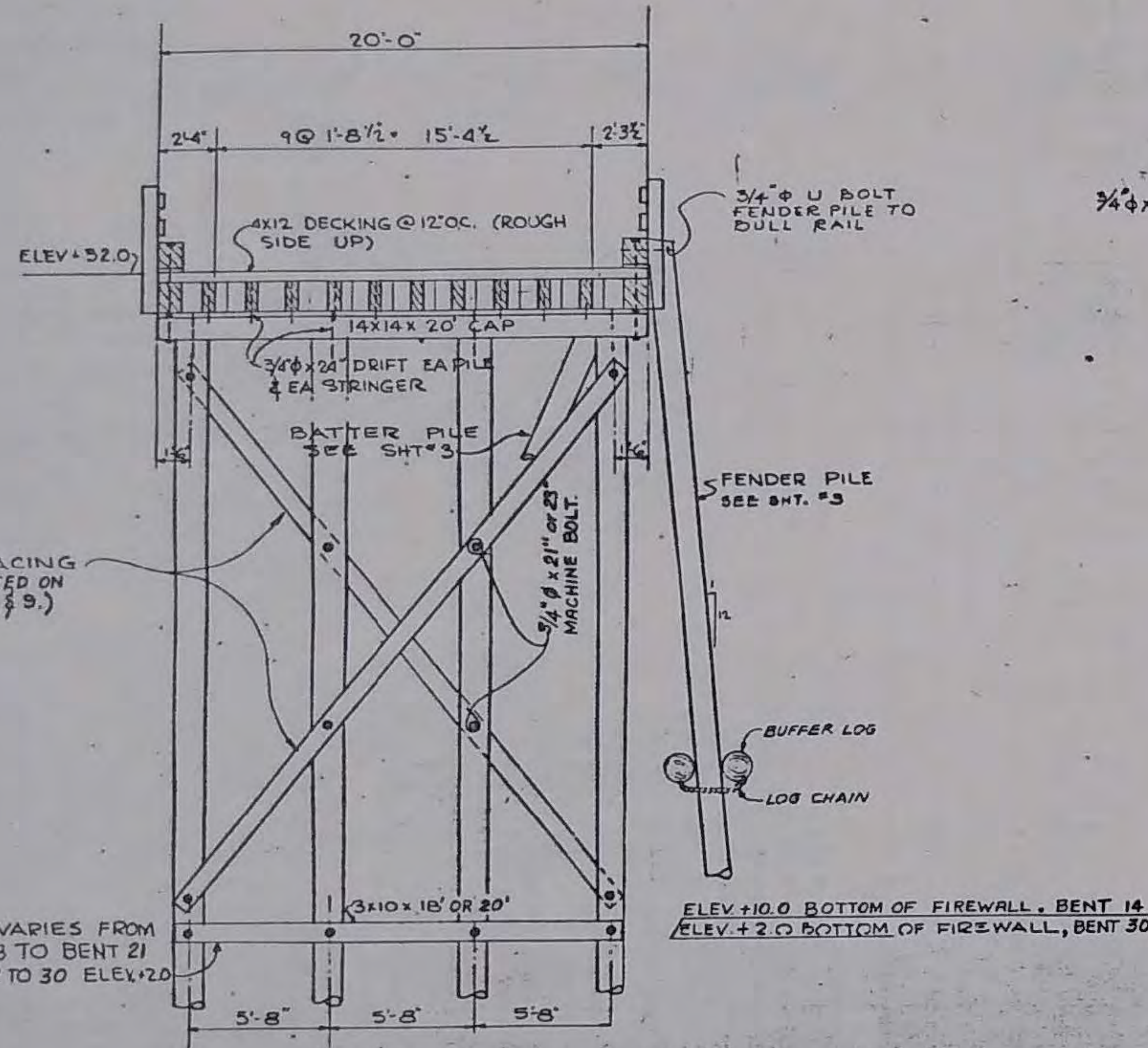
A 4-1-65 B P ADD 12' PILE DOLPHIN; (1) DELETED FIRE WALL			
REV.	DATE	ENG. NO. ACTION	DESCRIPTION
<b>U. S. ARMY ENGINEER DISTRICT, ALASKA</b> CORPS OF ENGINEERS ANCHORAGE, ALASKA			
DRAWN BY: <b>DARCO</b>	NPS	HOMER	ALASKA
TRACED BY: NPS			
CHECKED BY: <b>JOHNSON</b>	NPS	<b>CITY DOCK FRAMING PLAN</b>	
SUBMITTED BY: NPS			
DESIGNED BY: CHIEF DESIGN BR.			
APPROVED: CHIEF OF ENGINEERING DIVISION	DATE: July 1962		
PREPARED BY U. S. ARMY ENGINEER DISTRICT, SEATTLE		SCALE: 1/4" = 1'-0"	FIG. NO. Q-5-12-30 4 of

**Notes:**

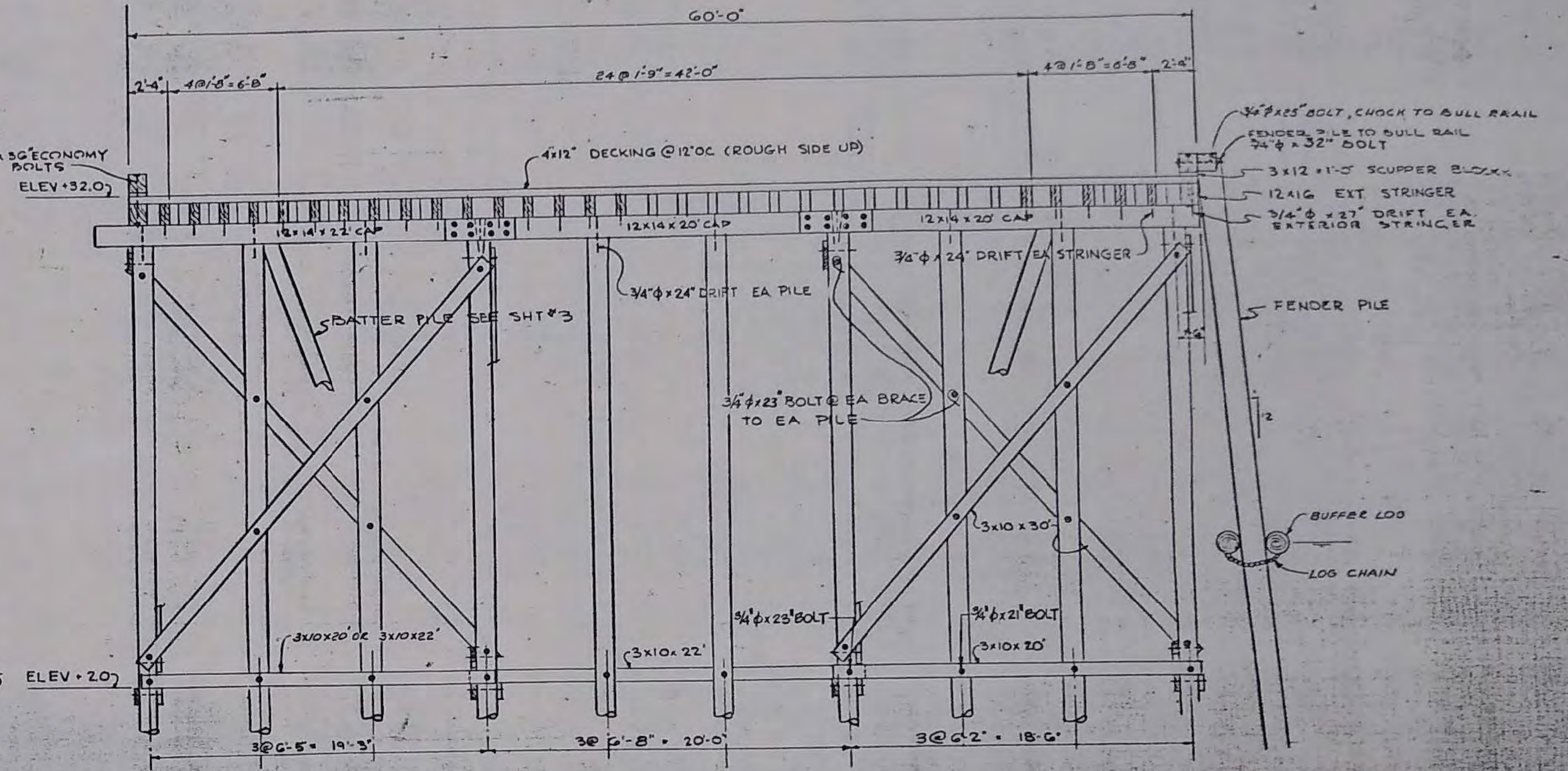
1. Dolphin pile indicated by arrow occupies position omitted bearing pile at standard spacing would normally occupy.

2. Bearing pile at standard spacing which would normally occupy this position is omitted.

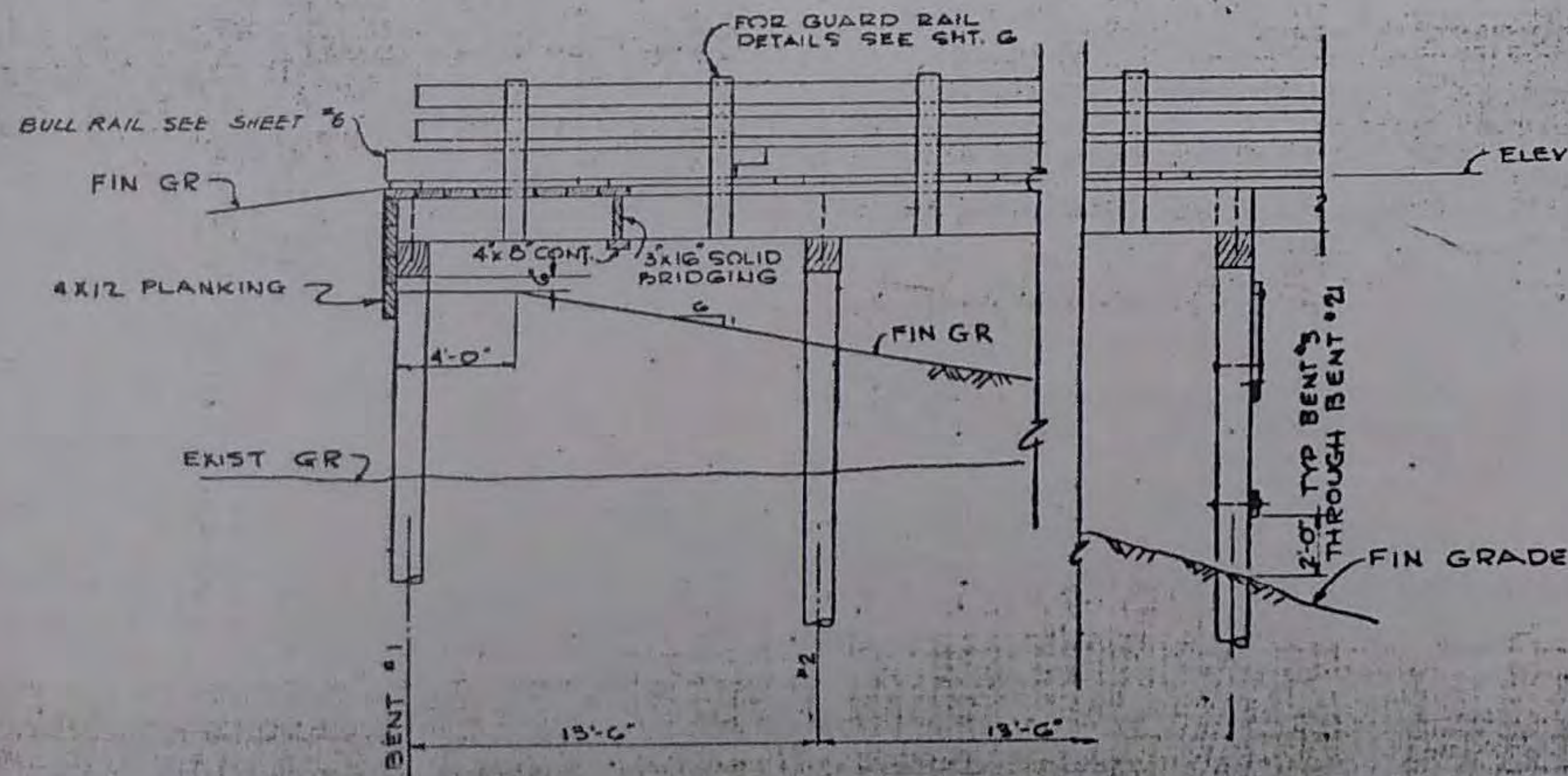




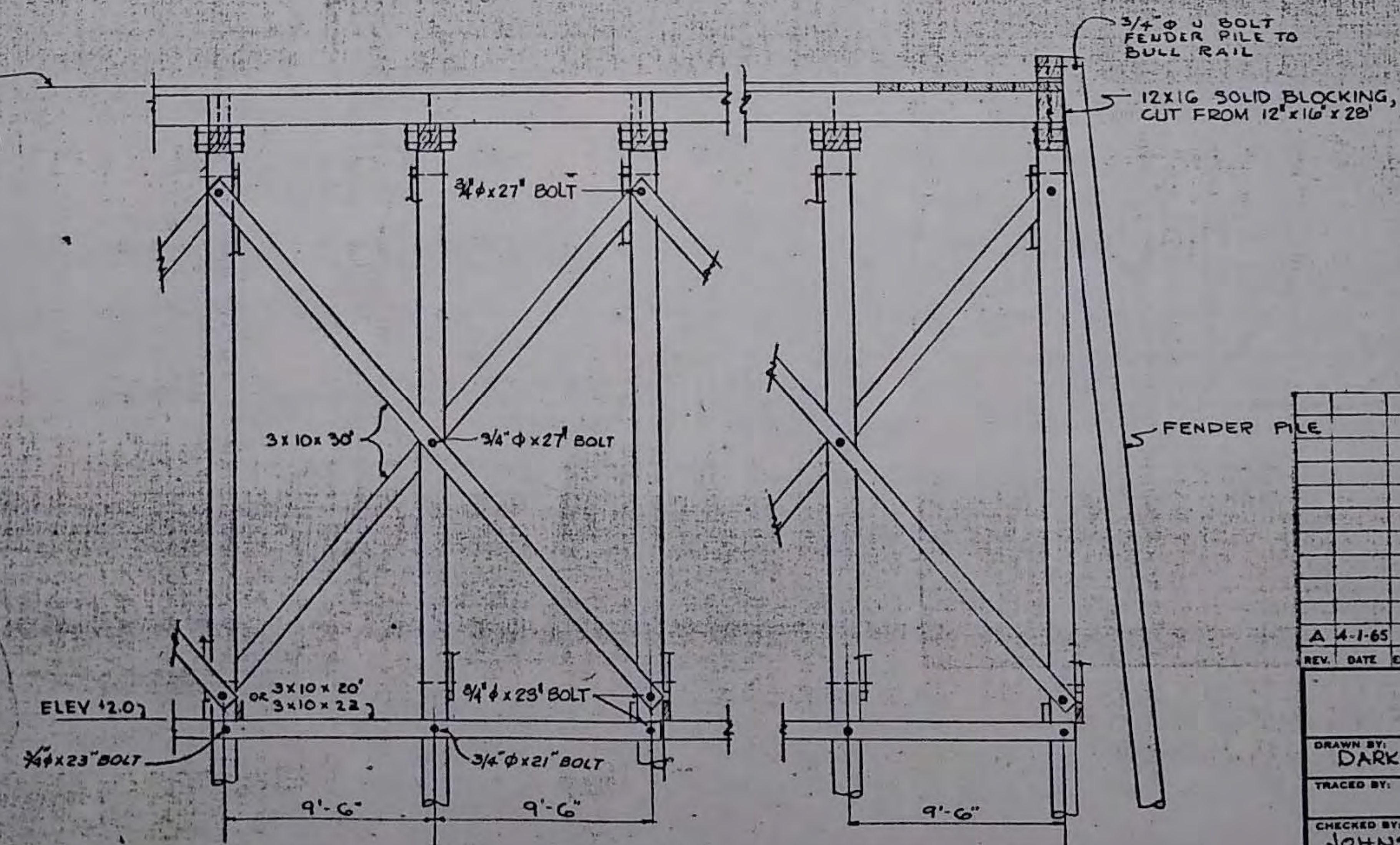
TYPICAL APPROACH SECTION  
SCALE: 1/4" = 1'-0"



TYPICAL DOCK SECTION  
SCALE: 1/4" = 1'-0"



APPROACH LONG SECTION  
SCALE: 1/4" = 1'-0"



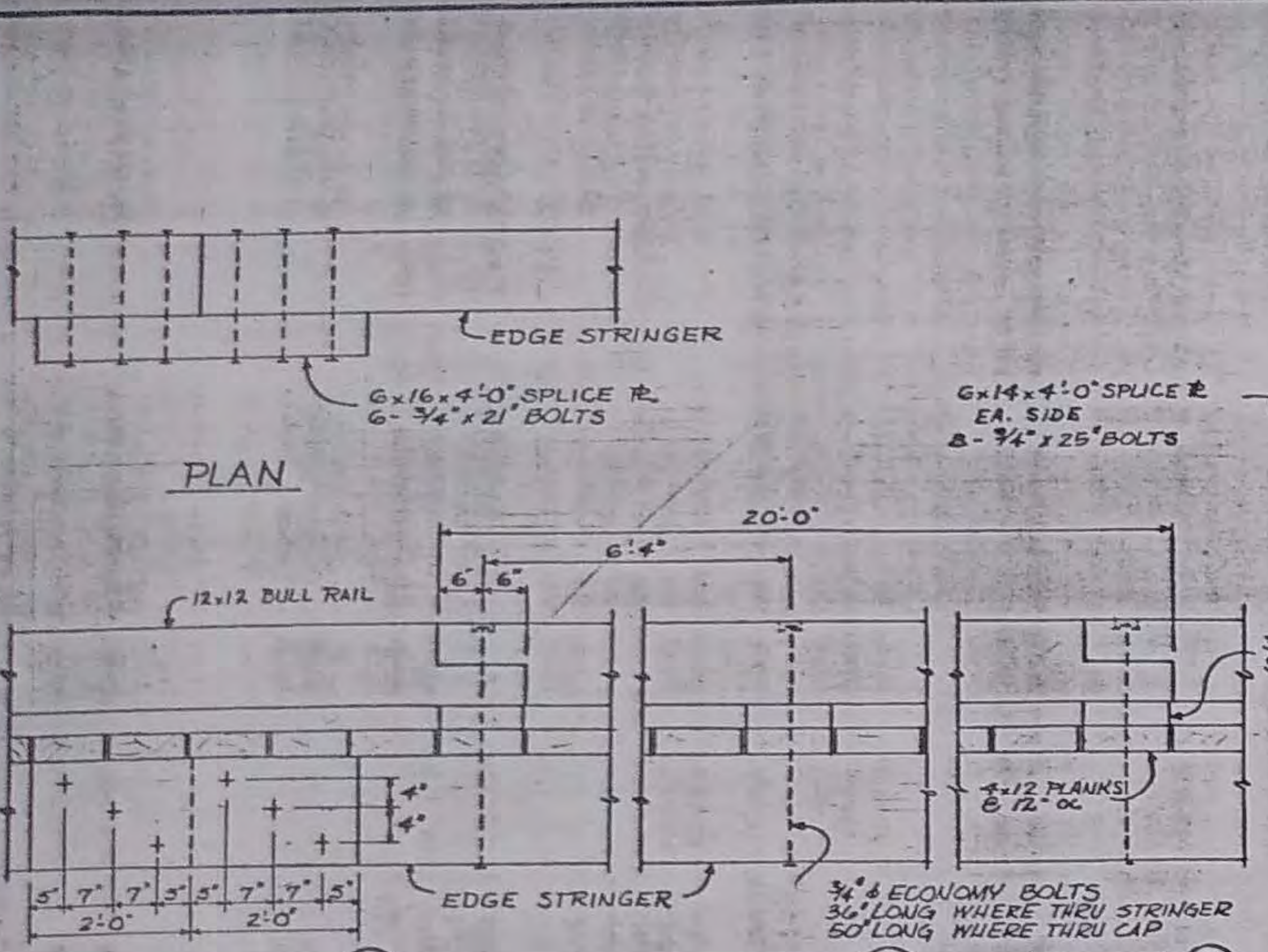
DOCK LONGITUDINAL SECTION  
SCALE: 1/4" = 1'-0"

REV.	DATE	ENG. NO.	ACTION	DESCRIPTION	BY	APP'D.
A 4-1-65		S P		DELETED FIRE WALL		
U. S. ARMY ENGINEER DISTRICT, ALASKA CORPS OF ENGINEERS ANCHORAGE, ALASKA						
DRAWN BY: DARKO		HOMER		ALASKA		
TRACED BY:		G. I.		CITY DOCK		
CHECKED BY: JOHNSON				SECTIONS		
SUBMITTED BY:						
RECOMMENDED BY:						
CHIEF DESIGN BR.						

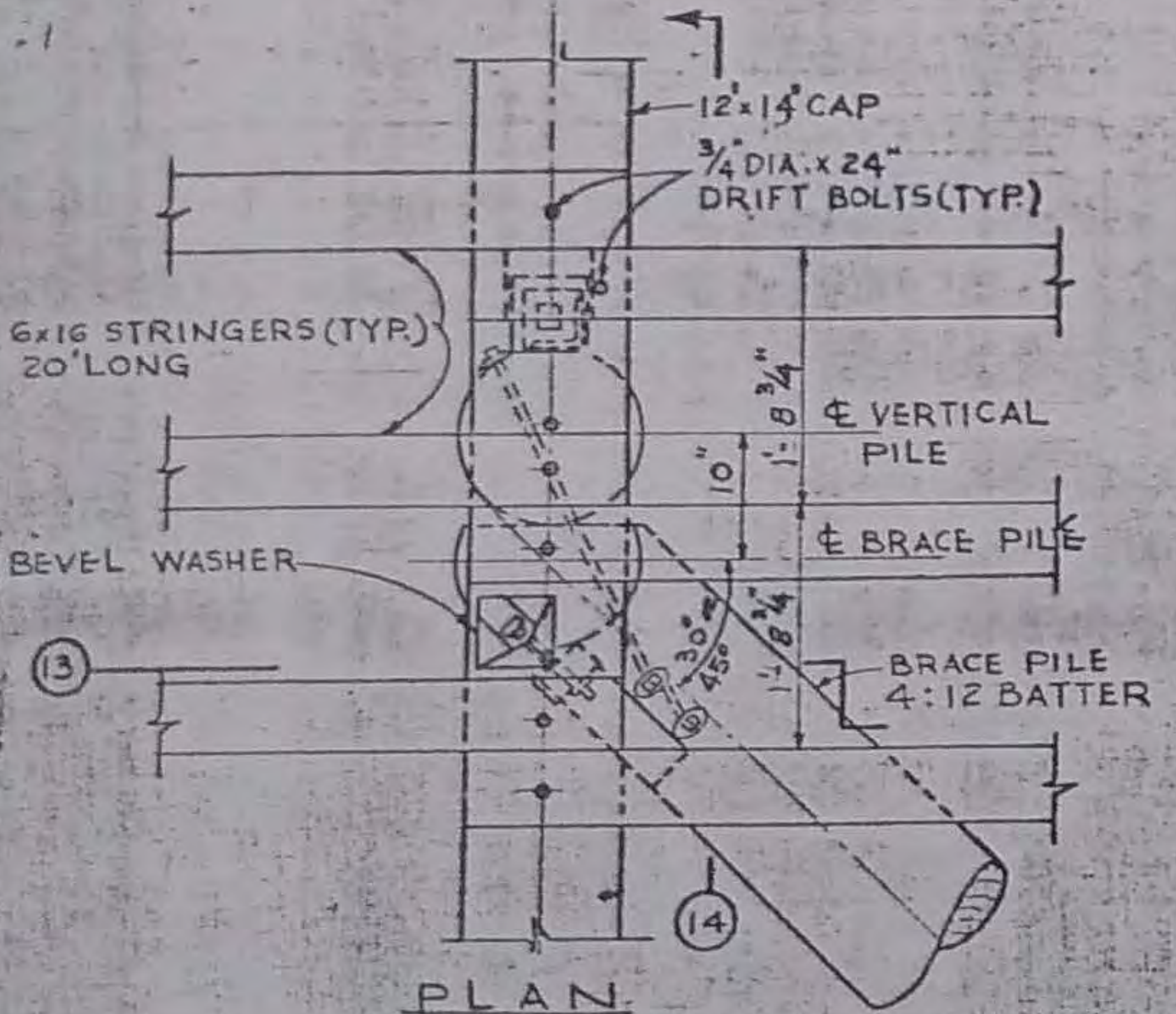
PREPARED BY  
U. S. ARMY ENGINEER DISTRICT, SEATTLE

SCALE: 1/4" = 1'-0" MPCL NO  
DRAWING NUMBER  
Q-5-12-30  
SHEET 5 of

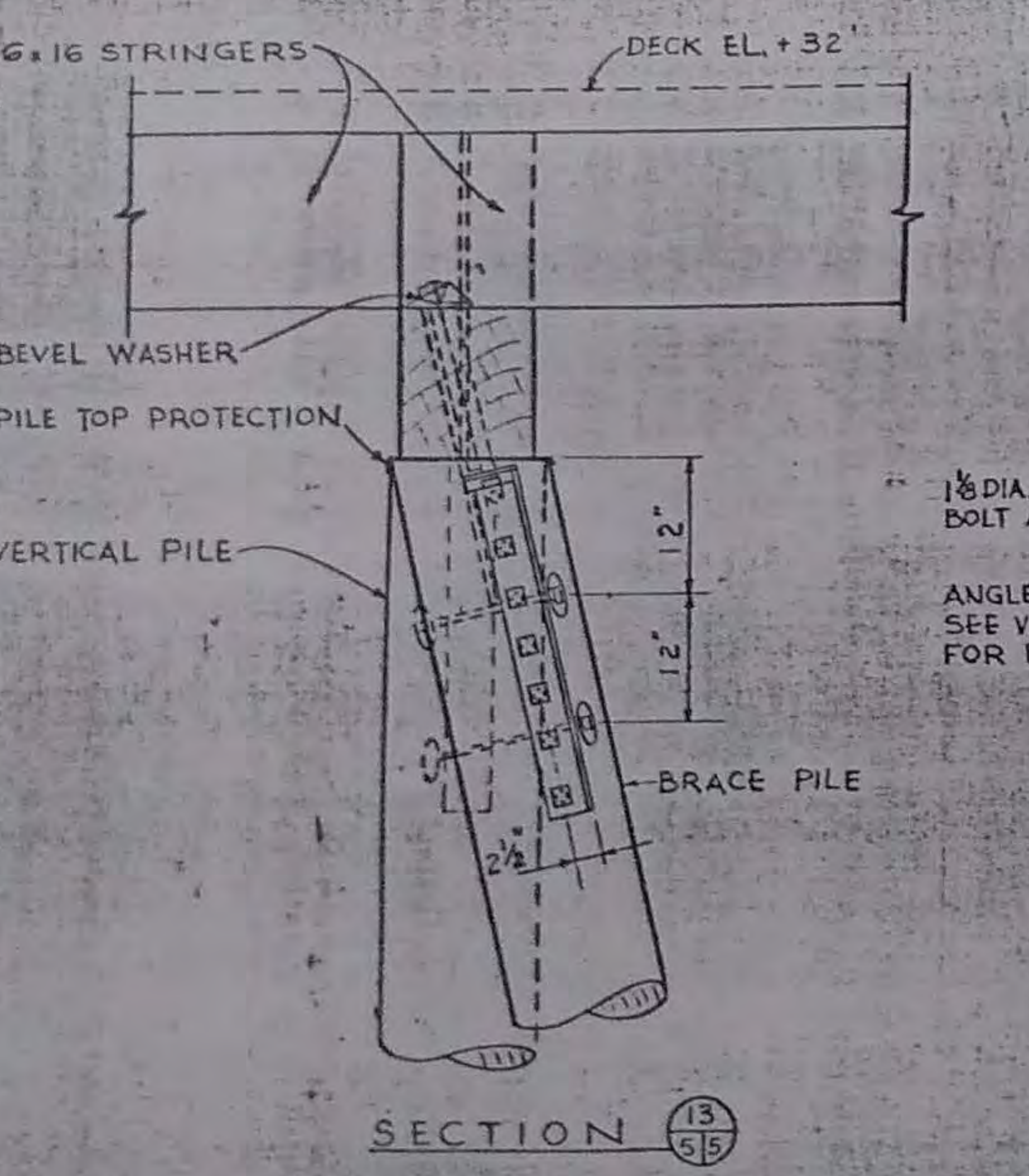
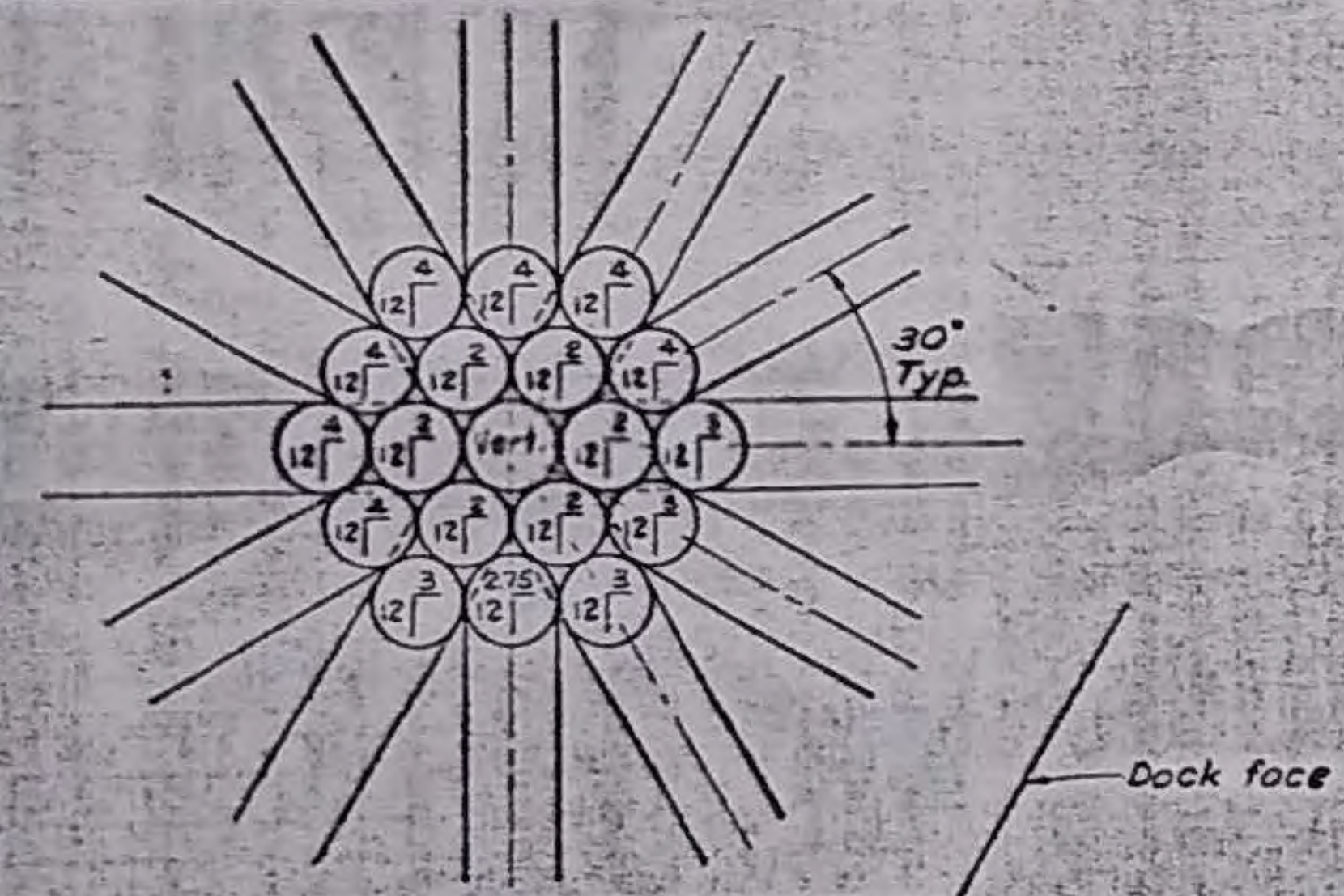




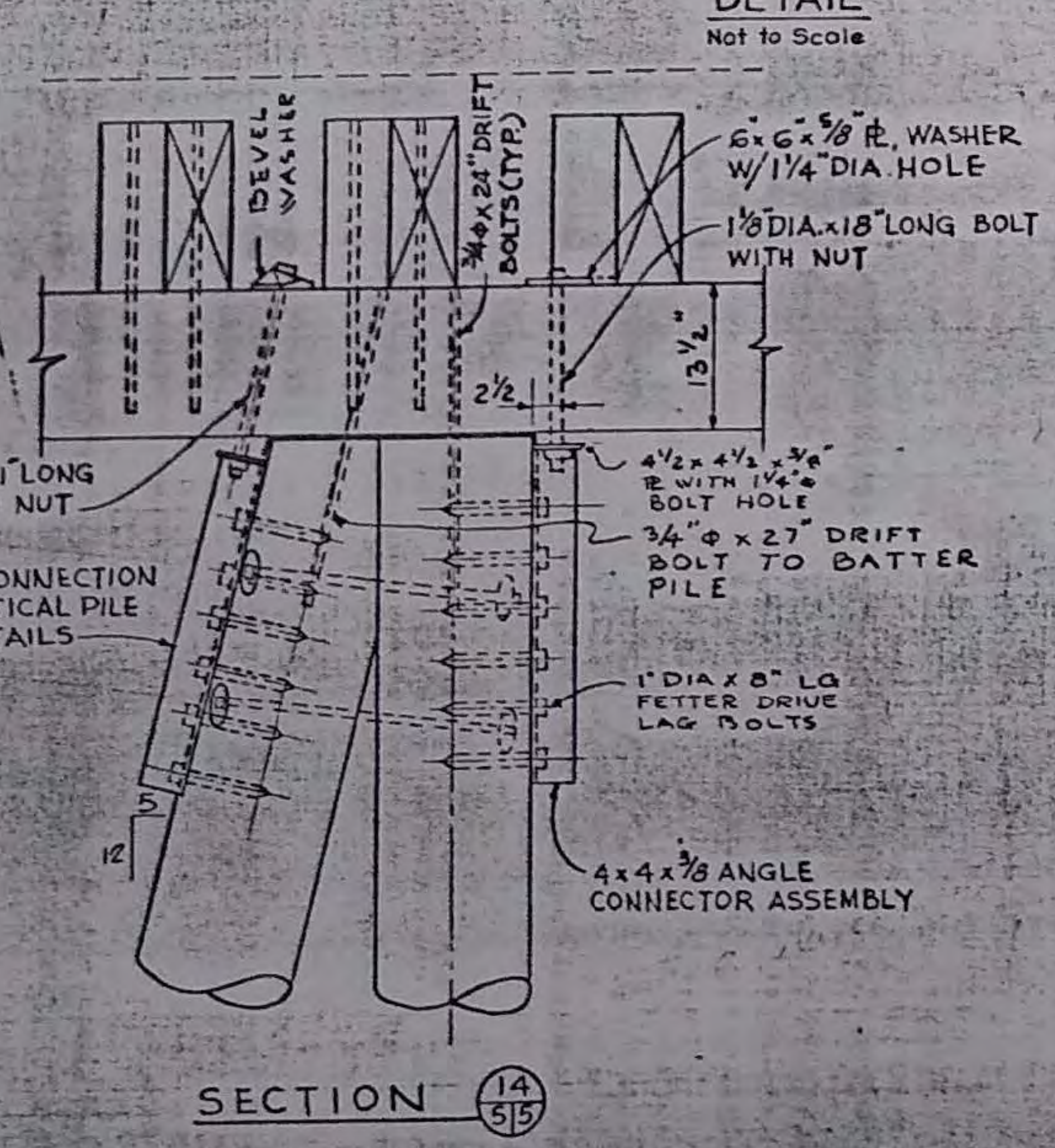
STRINGER SPLICE & TYP BULL RAIL DETS. @ PILE BENT



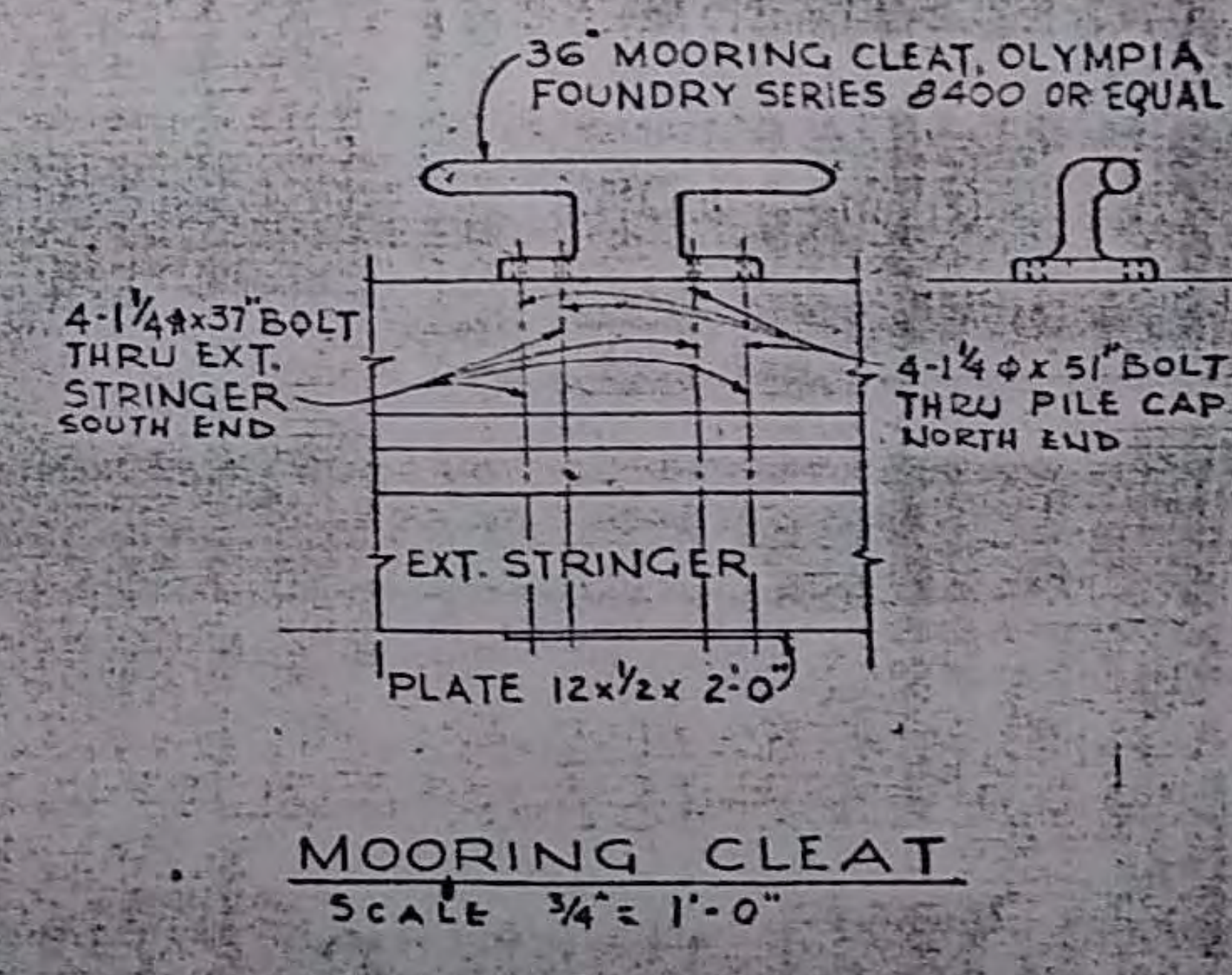
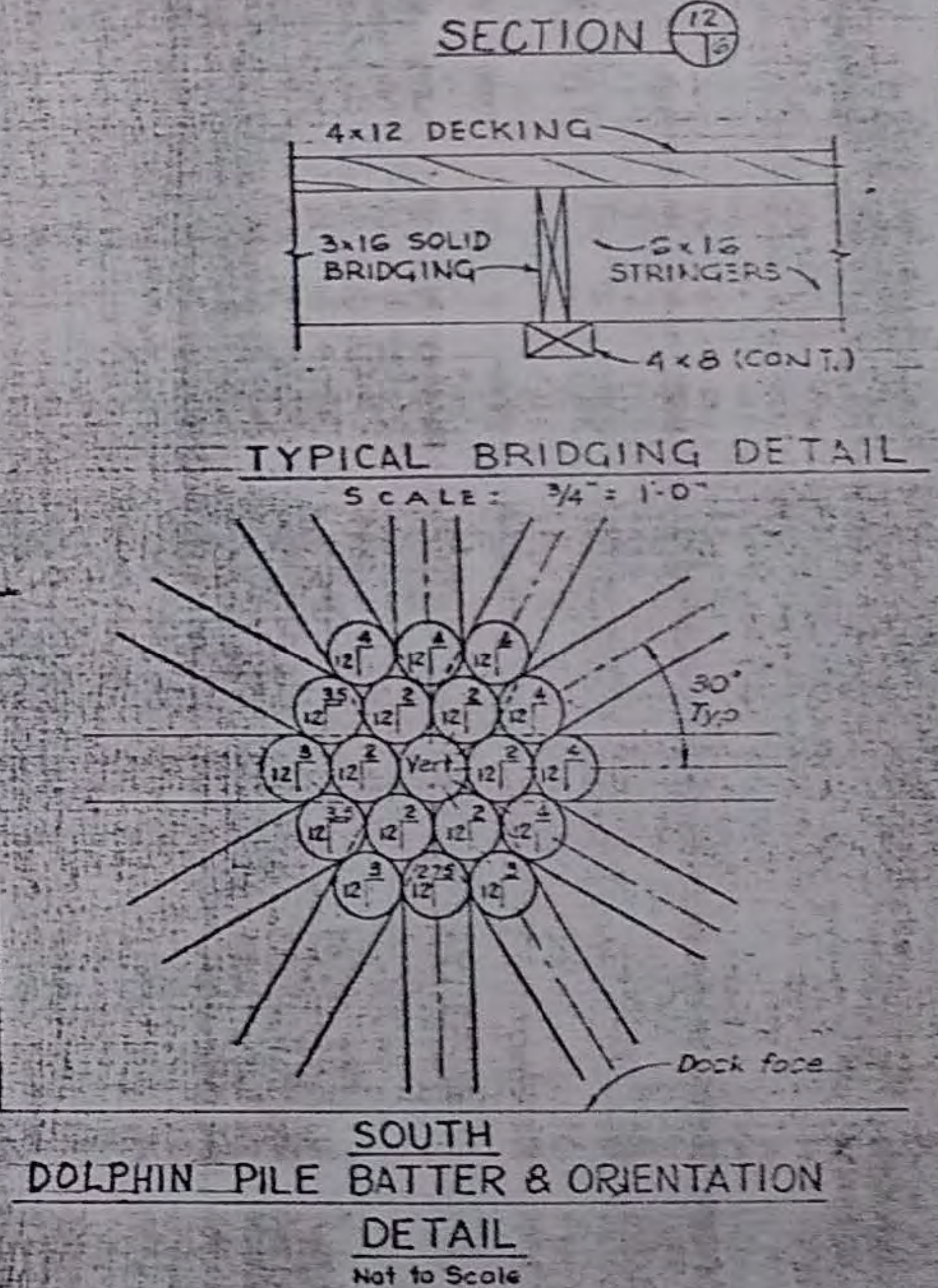
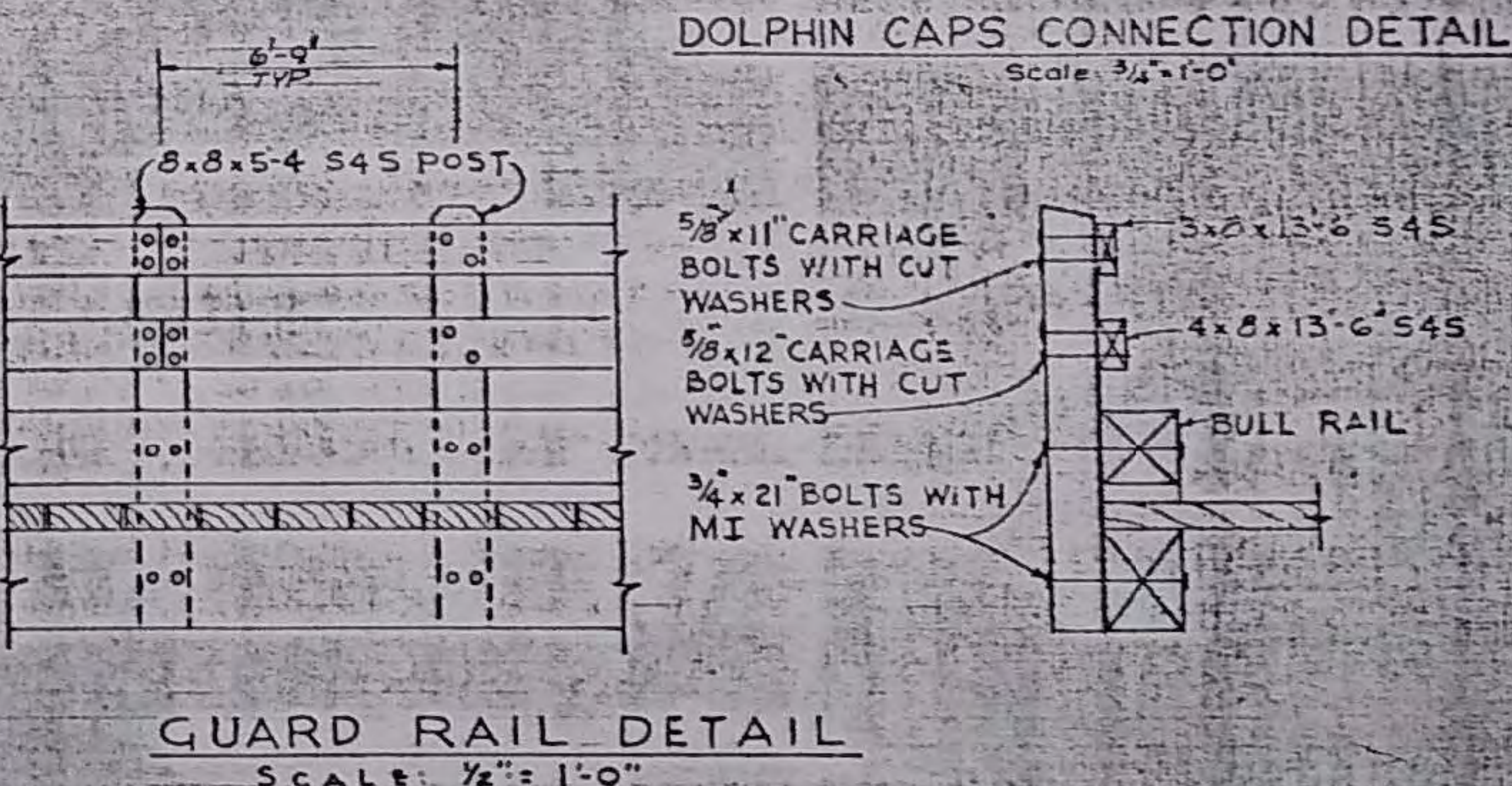
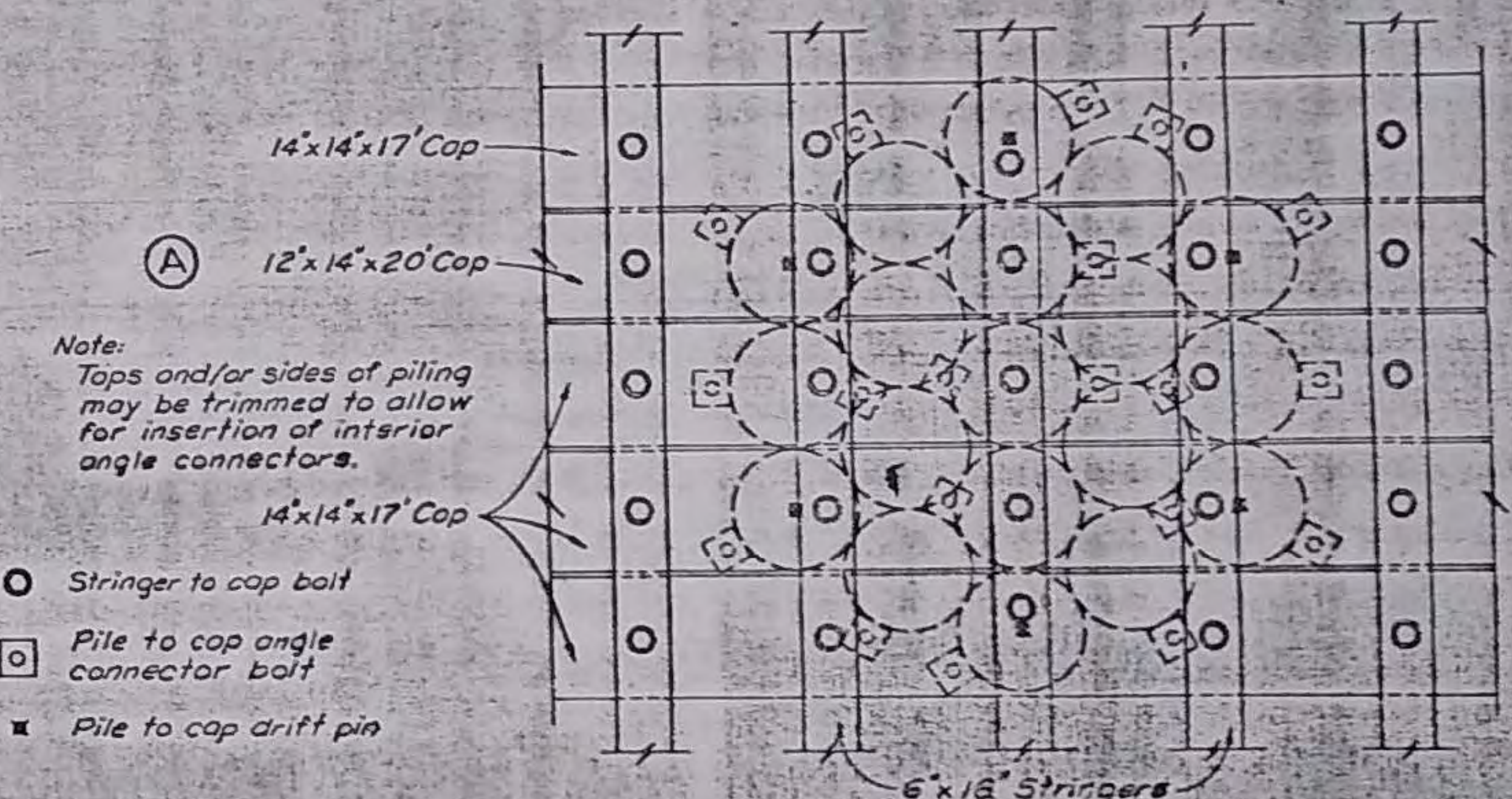
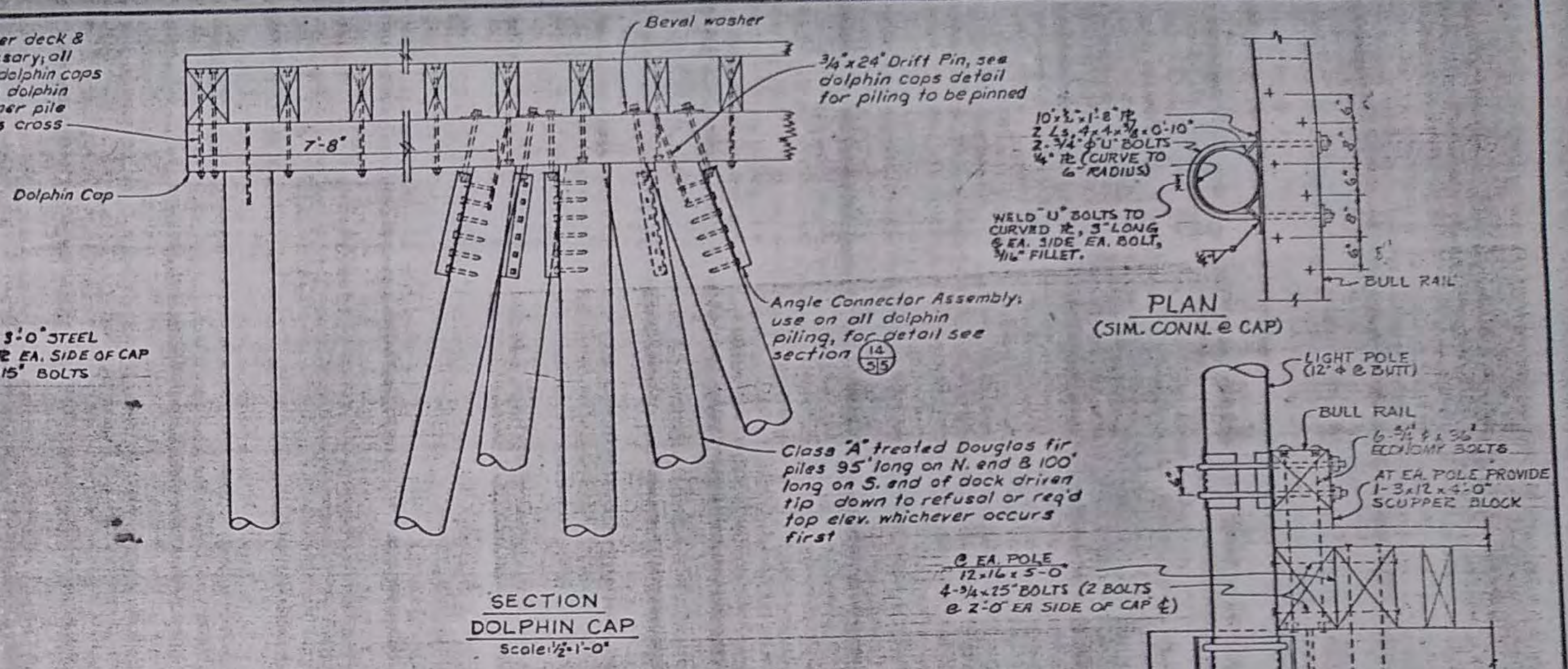
SECTION 8/16 TYP INT. CAP SPLICE SECTION 9/16 TYP END CAP SPLICE



BRACE PILE CONNECTION SCALE: 1" = 1'-0"

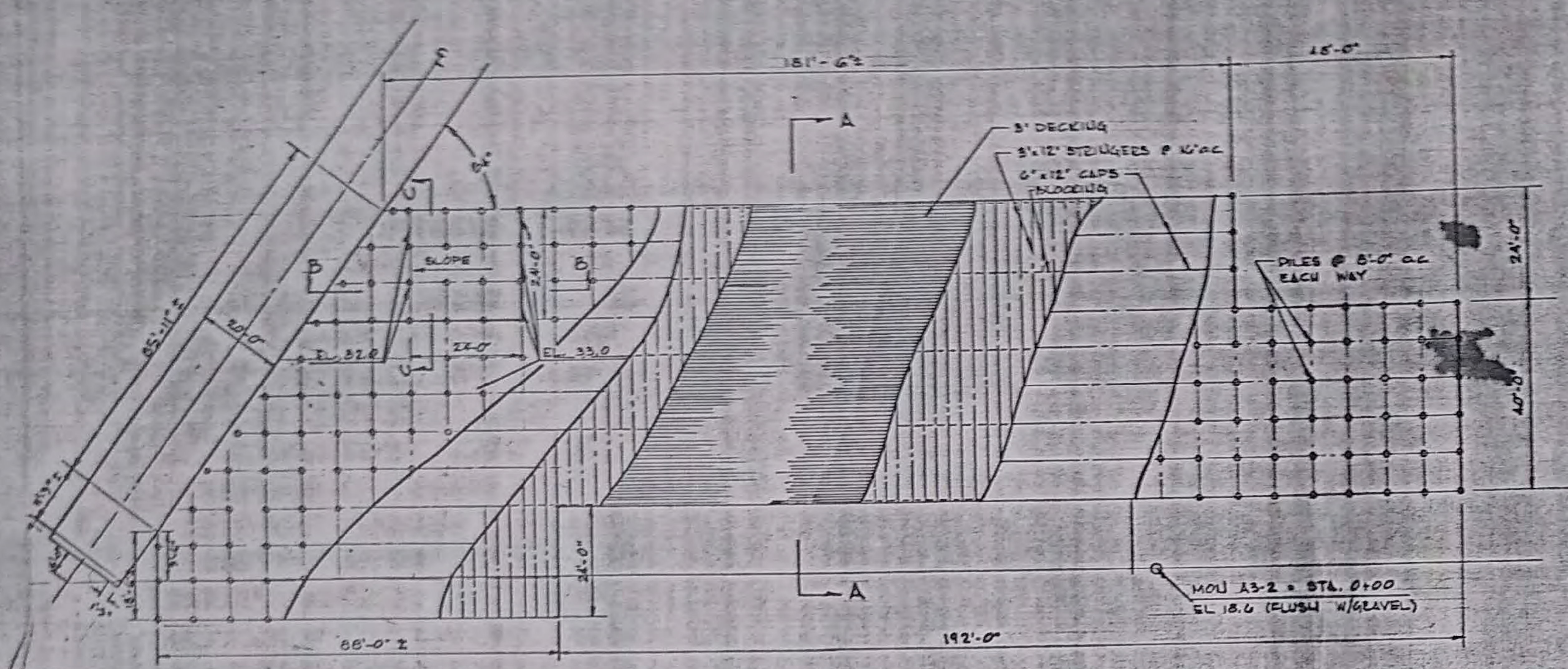


3/4" Bolt typ. c/s under deck & over pile when necessary; all stringers crossing dolphin caps are to be bolted to dolphin caps and to all pile caps the stringers cross

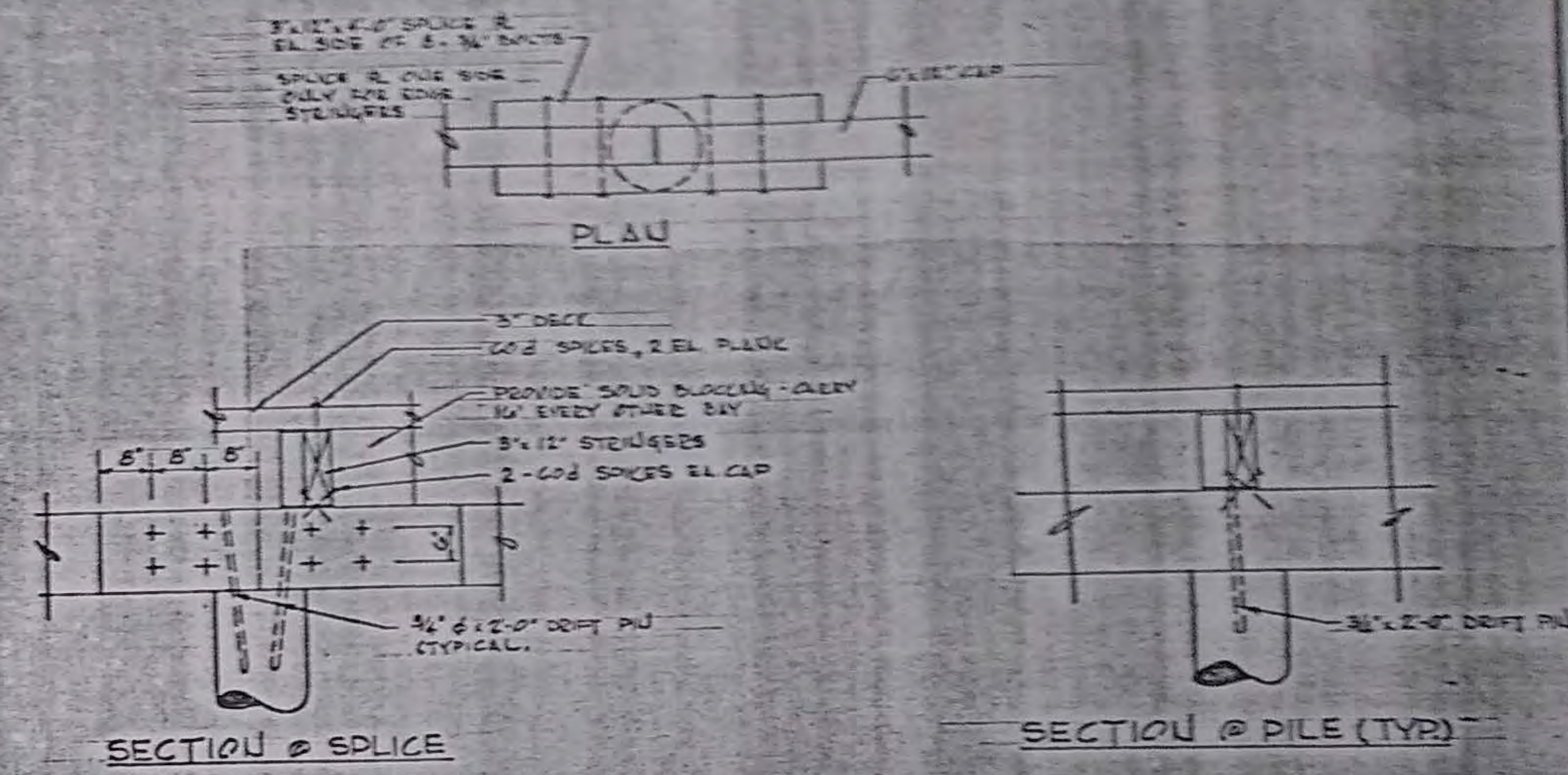


REV.	DATE	ENG. NO.	ACTION	DESCRIPTION	BY	APP'D.
A	7-1-53	3	P	ADD 15 PILE DOLPHIN		
<p align="center"><b>U. S. ARMY ENGINEER DISTRICT, ALASKA</b> CORPS OF ENGINEERS ANCHORAGE, ALASKA</p>						
DRAWN BY: CHASTAID		HOMER		ALASKA		
TRACED BY:		G.I.		CITY DOCK		
CHECKED BY: JOHNSON				SECTIONS & DETAILS		
SUBMITTED BY:						
RECOMMENDED:						
CHIEF DESIGN BR.		APPROVED:		DATE:		
		SCALE:		SHEET NO.:		
		DRAWING NUMBER:		Q-5-12-30		
		PREPARED BY:		6 of		
		U. S. ARMY ENGINEER DISTRICT, SEATTLE				



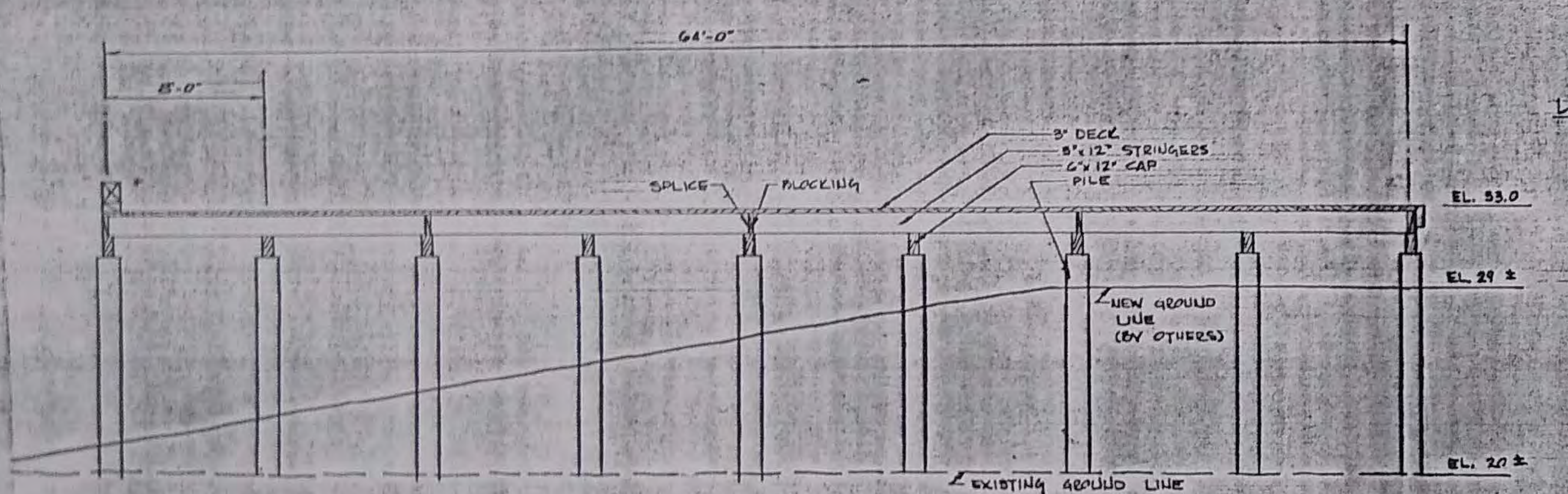


PLOT PLAN  
SCALE 1/16" = 1'-0"

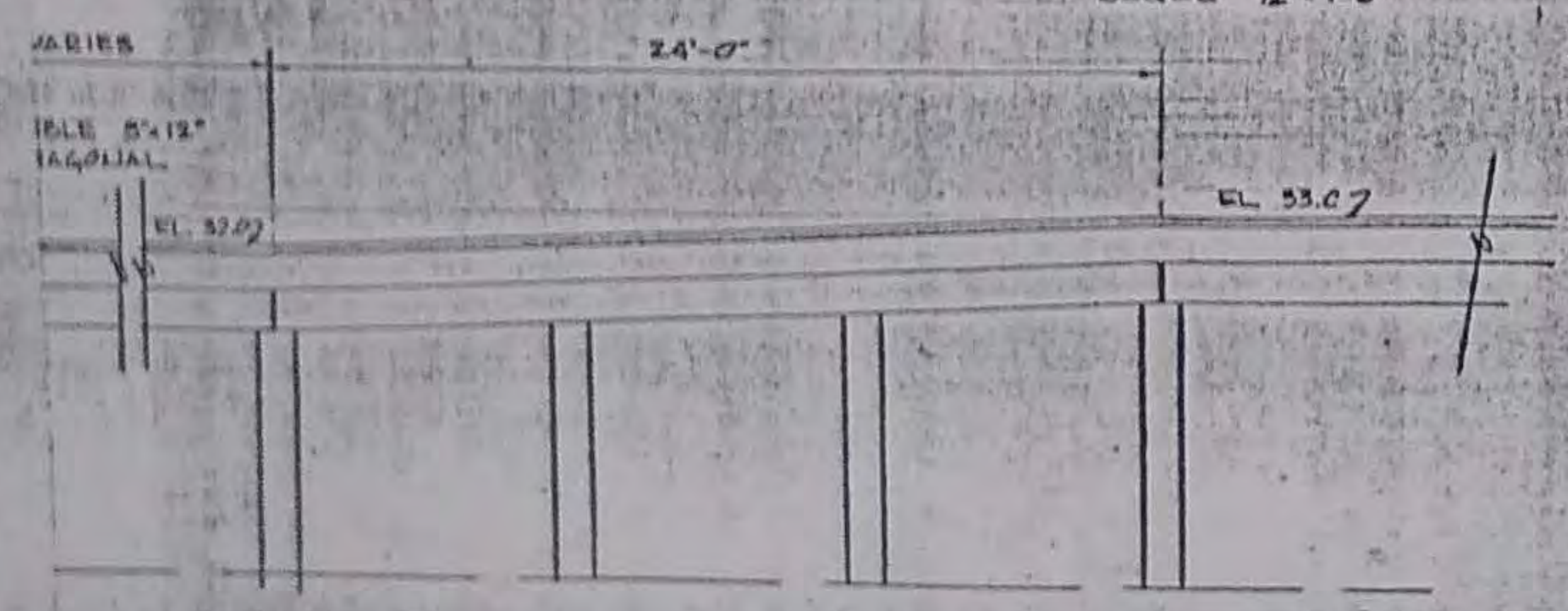


TYPICAL CAP & SPLICE  
SCALE - NONE

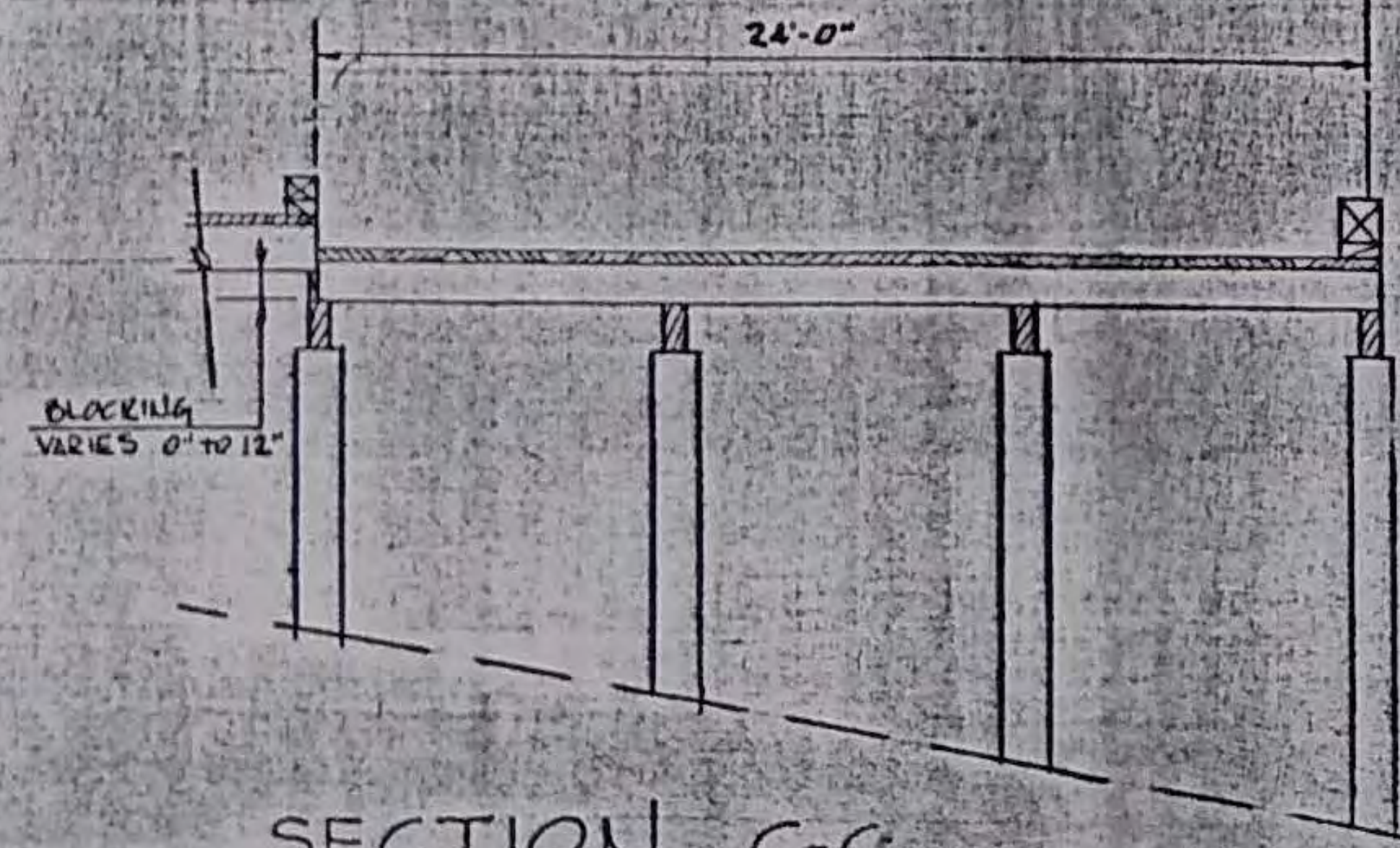
NOTE: ADD EXTRA DOUBLE 3" x 12" STRINGERS UNDER THE EDGES OF THE BUILDINGS WHERE THE RIGID FRAME COLUMNS LAND.



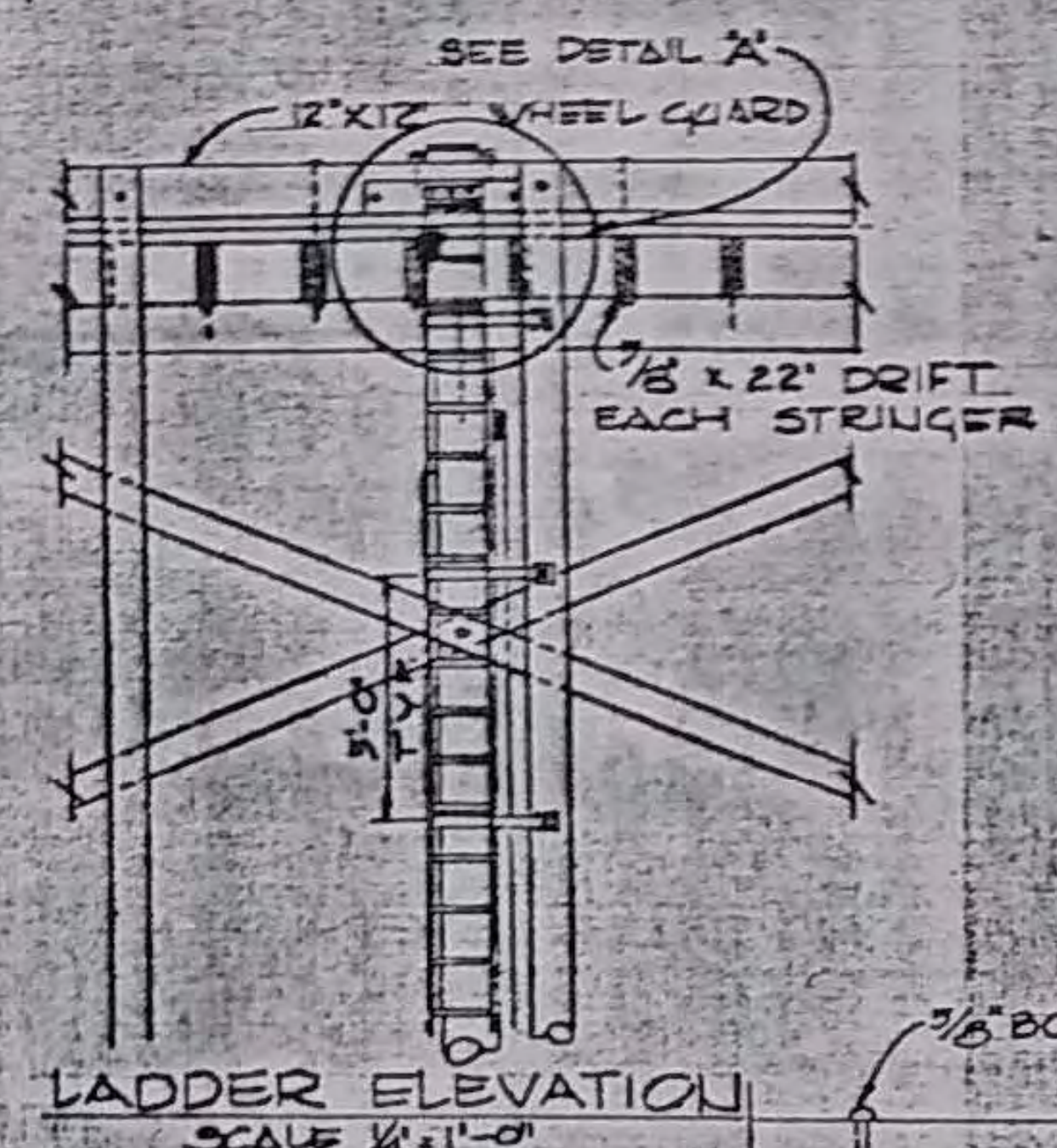
SECTION A-A  
SCALE 1/4" = 1'-0"



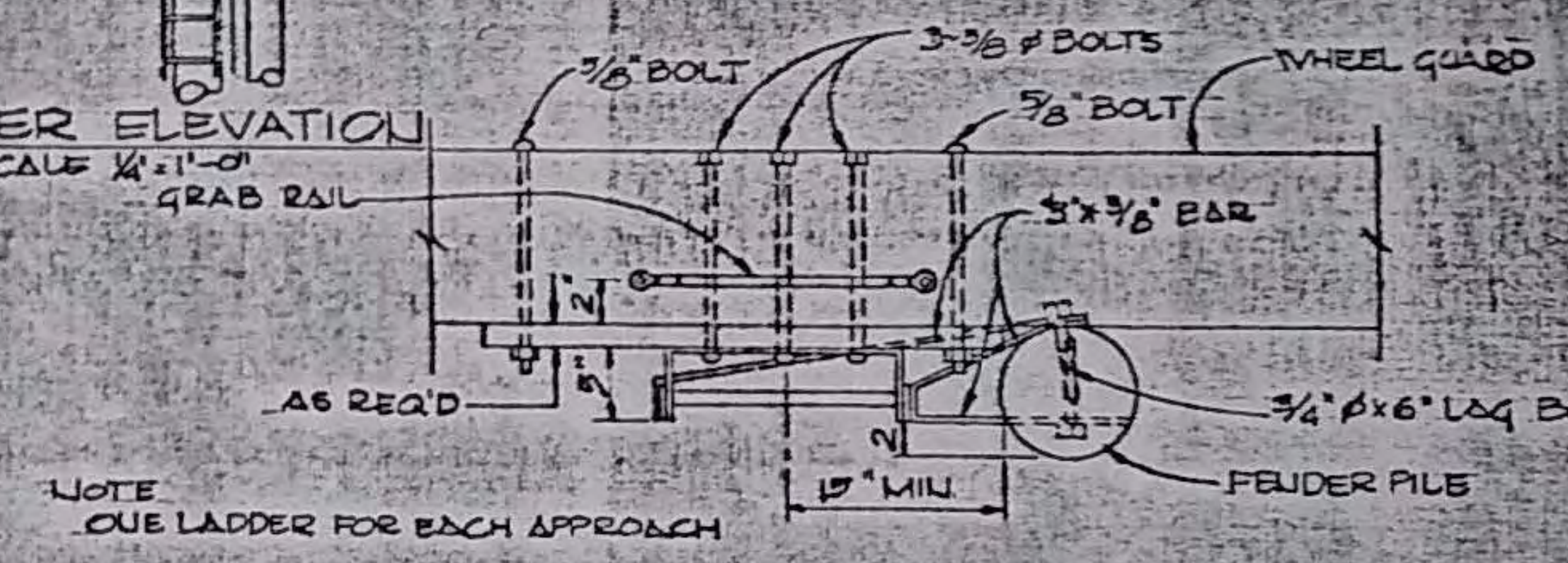
SECTION B-B  
SCALE 1/2" = 1'-0"



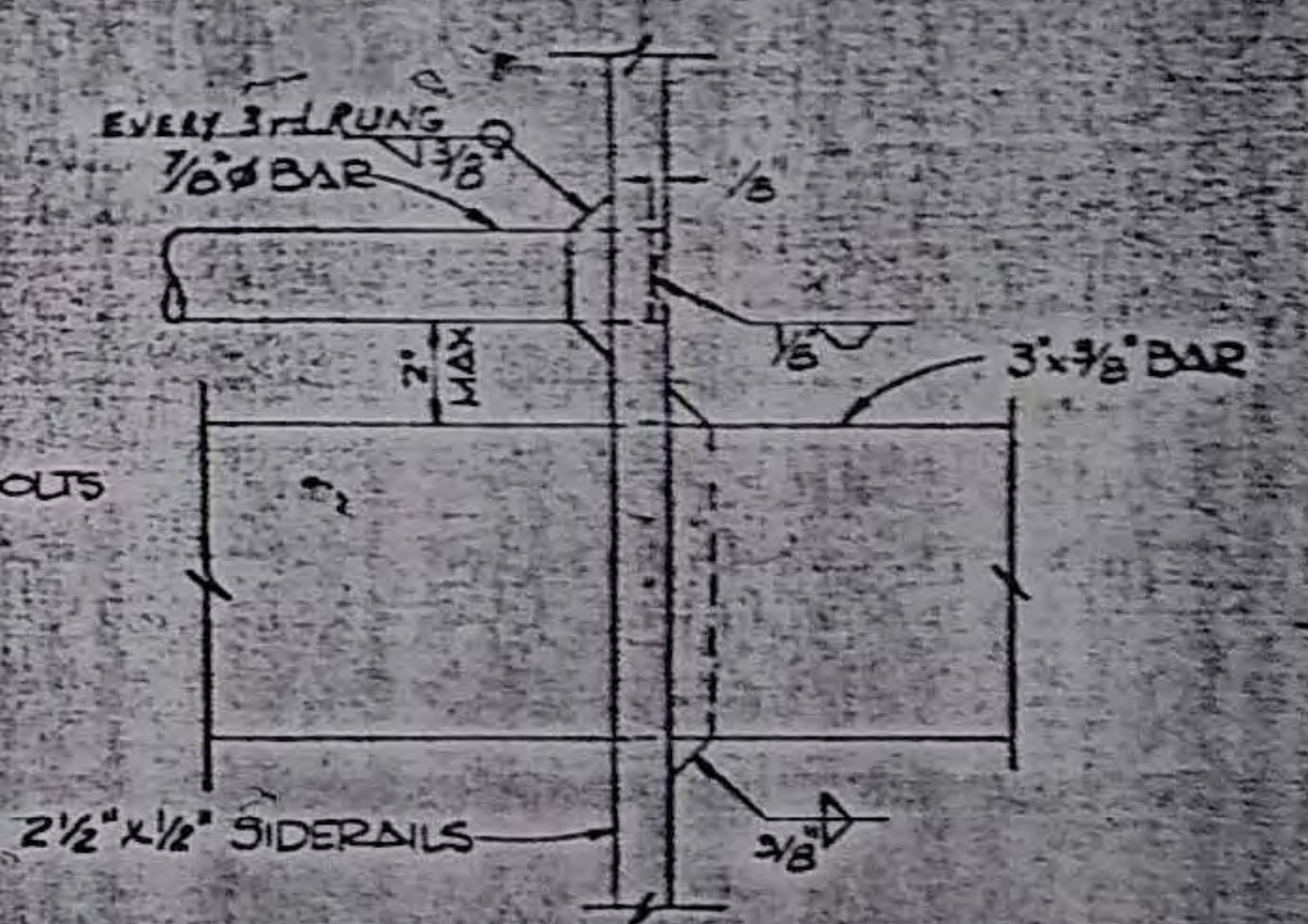
SECTION C-C  
SCALE 1/2" = 1'-0"



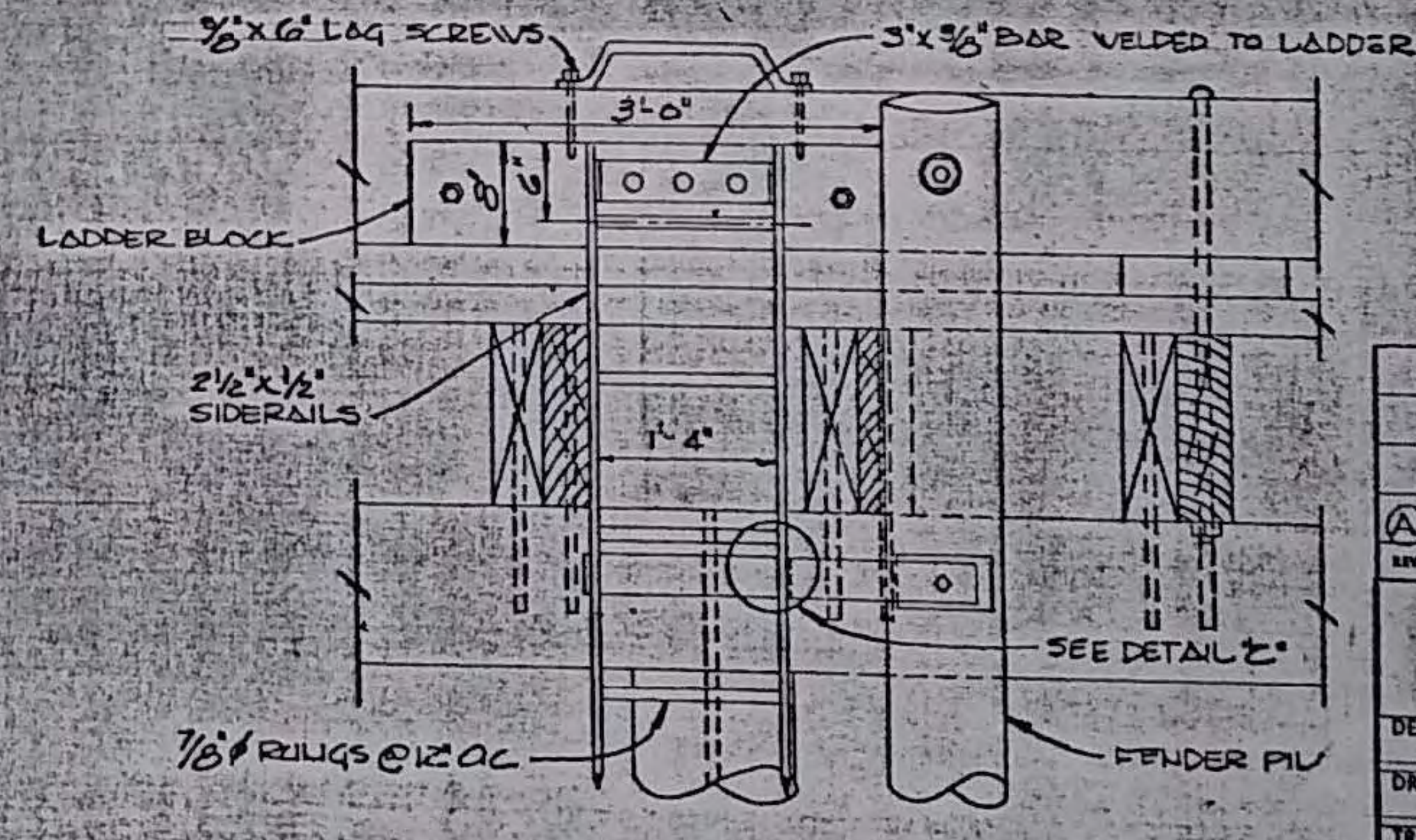
LADDER ELEVATION  
SCALE 1/4" = 1'-0"



DETAIL B  
SCALE 1" = 1'-0"



DETAIL C  
SCALE 1/2" = 1'-0"



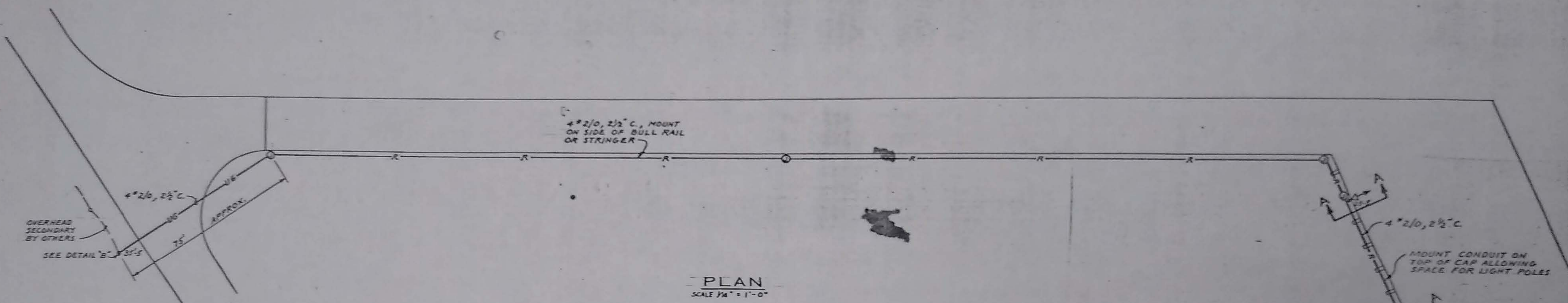
DETAIL A  
SCALE 1" = 1'-0"



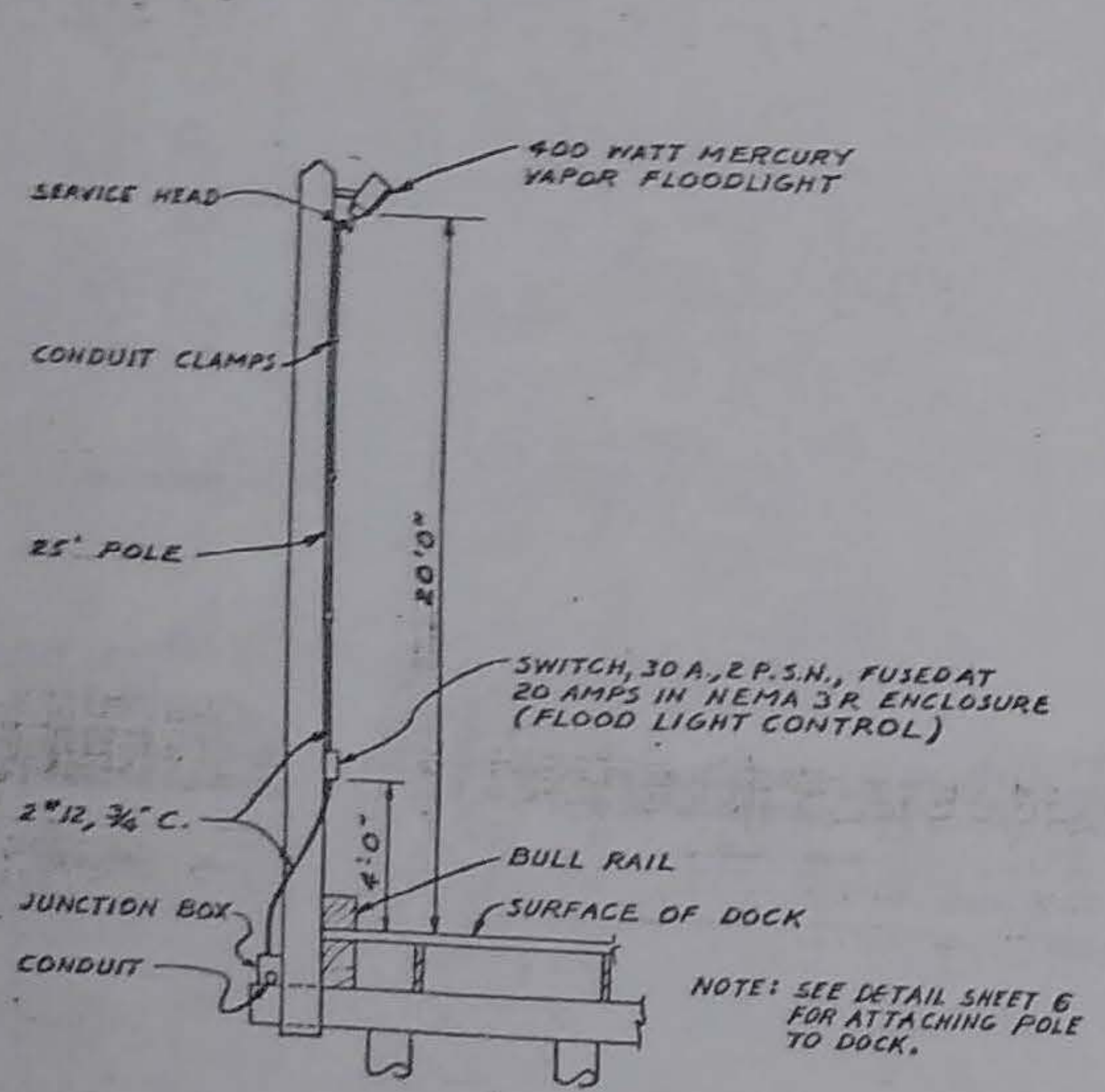
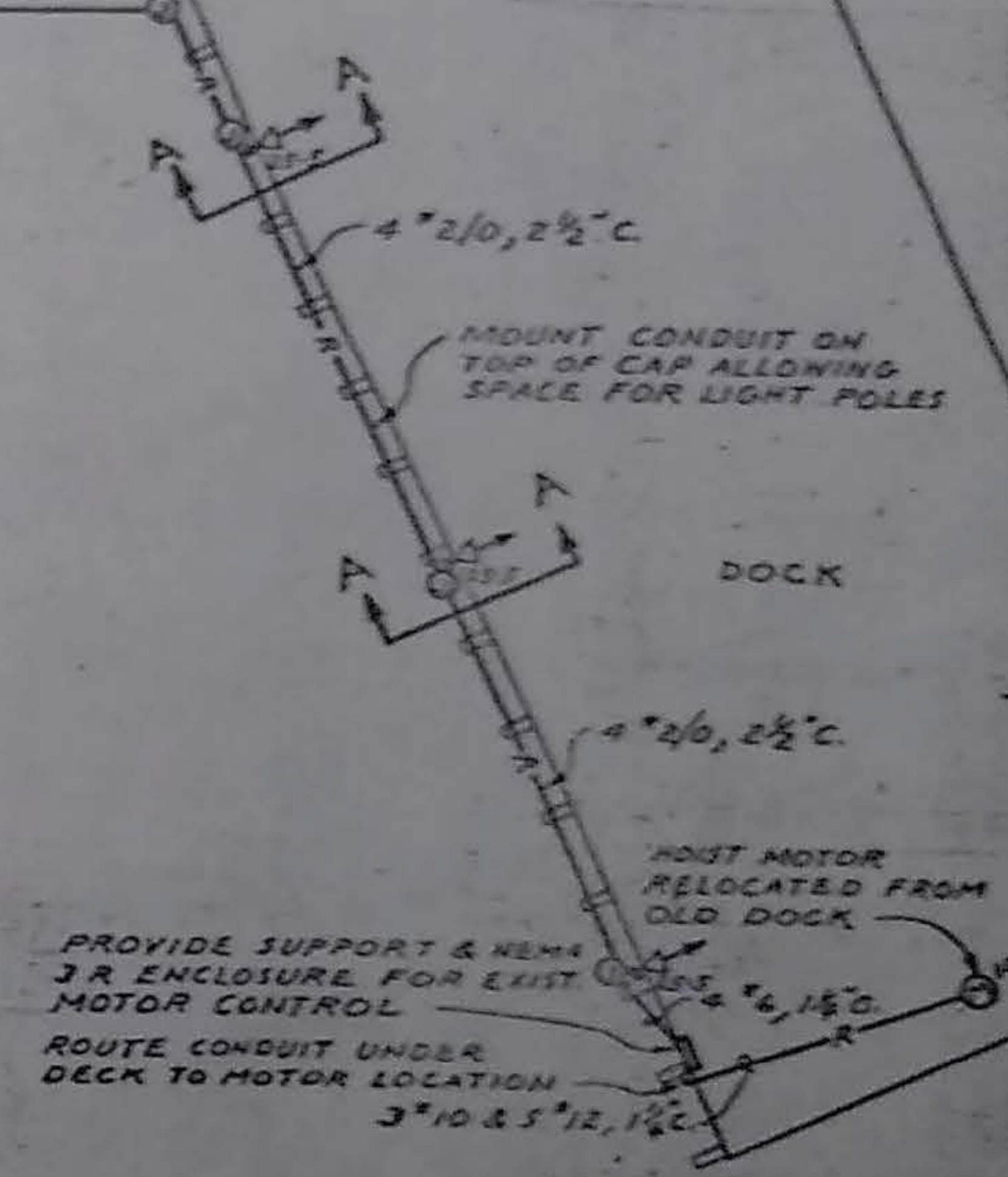
REFERENCE NO.

DESIGNED: K.H.	HOMER	ALASKA
DRAWN: P.H.		
TRACED:		
CHECKED: T.M.		
SUBMITTED: M.H.		
RECOMMENDED:		
U.S. ARMY ENGINEER DISTRICT, ALASKA CORPS OF ENGINEERS ANCHORAGE, ALASKA		
C.I. - CITY DOCK CIVIL WAREHOUSE PLATFORM		
APPROVED: [Signature]	DATE 3/1/50	
DRAWING NUMBER Q5-12-30		

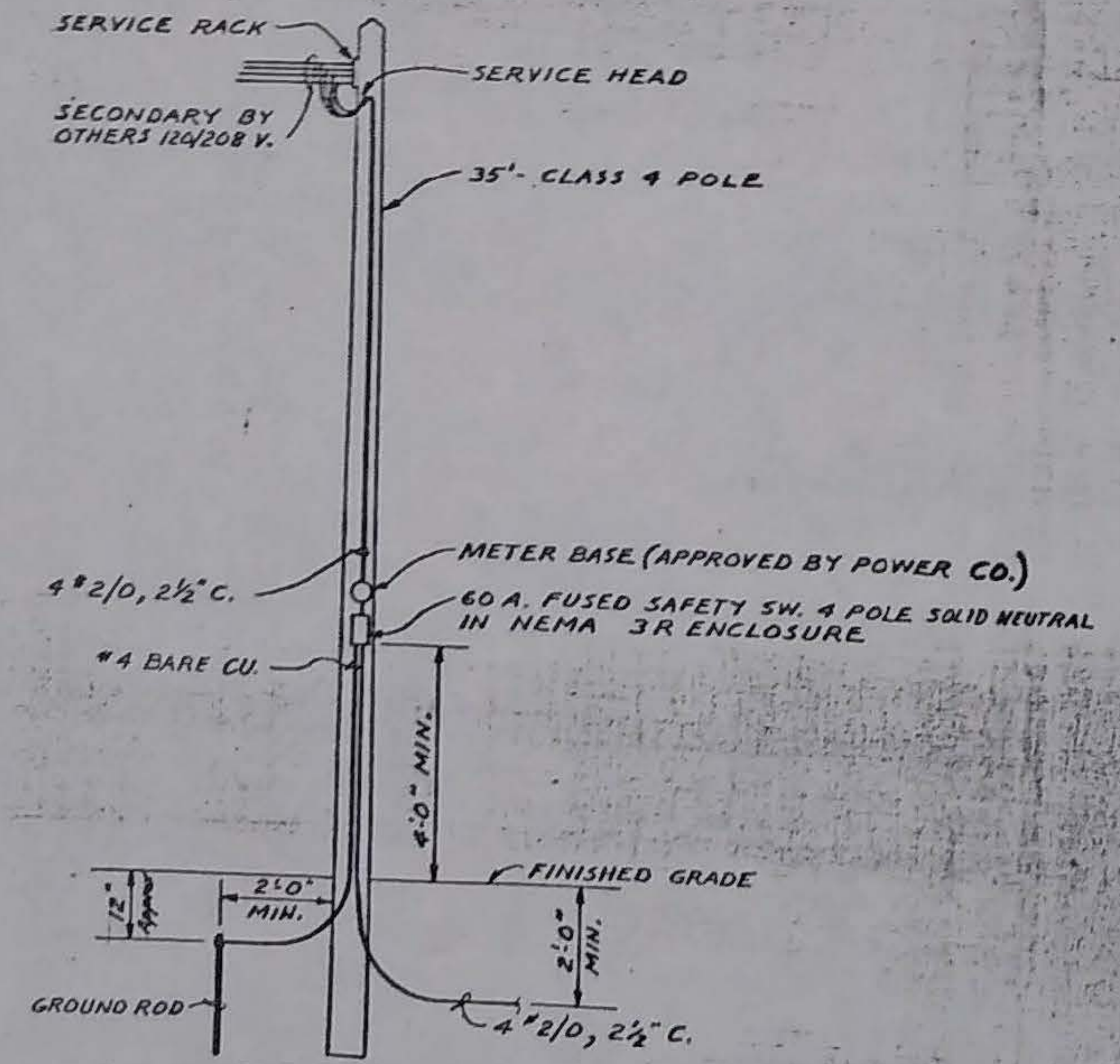




**PLAN**  
SCALE 1/4" = 1'-0"



**FLOODLIGHT INSTALLATION**  
**SECTION A-A**  
NOT TO SCALE



**DETAIL "B"**  
NOT TO SCALE

**ELECTRICAL DETAILS**

**LEGEND**

EXISTING OR BY OTHERS	POLE, HEIGHT & CLASS	THIS CONTRACT
○	POLE, HEIGHT & CLASS	○
○	JUNCTION OR PULL BOX	○
○	MOTOR - APPROX. HR AS INDICATED	○
○	FLOODLIGHT, MERCURY VAPOR WITH SHUT IN BALLAST AND 400W JHI LAMP, BEAM SPREAD APPROX. 24° HOR. AND 65° VERT.	○
—	RIGID GALV. CONDUIT, SIZE INDICATED ATTACHED TO DOCK	—
—	RIGID GALV. CONDUIT, SIZE INDICATED, BURIED IN EARTH	—

SYMBOL	DESCRIPTION	DATE	APPROVAL

**U. S. ARMY ENGINEER DISTRICT, ALASKA**  
CORPS OF ENGINEERS  
ANCHORAGE, ALASKA

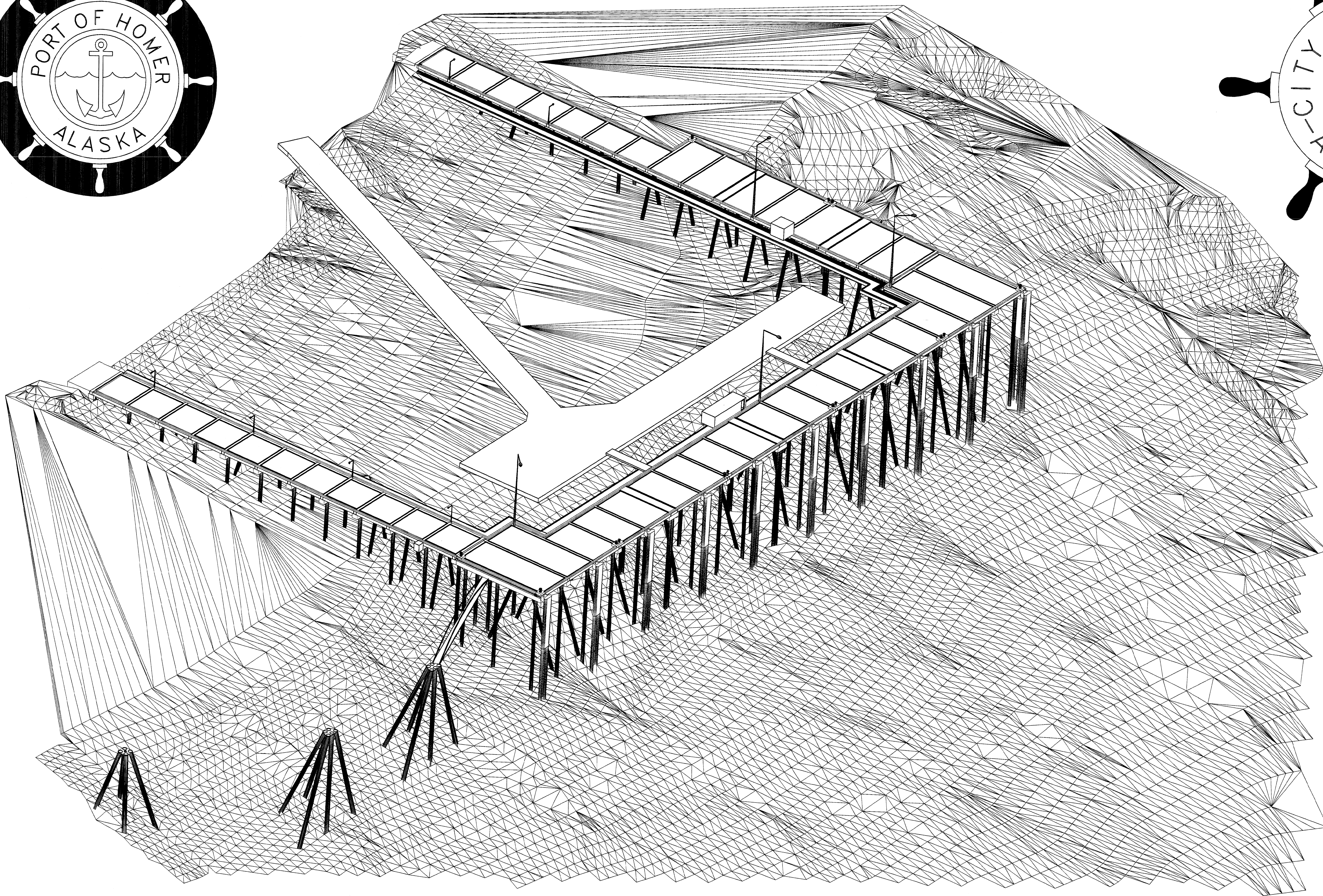
DRAWN BY: SETTERS	HOMER	ALASKA
TRACED BY: WATERMAN	C.I. -	CITY DOCK
CHECKED BY: PEYTON	<b>ELECTRICAL</b>	
SUBMITTED BY: CHIEF DESIGN BRANCH		
RECOMMENDED: CHIEF DESIGN BR		

PREPARED BY  
U. S. ARMY ENGINEER DISTRICT, SEATTLE

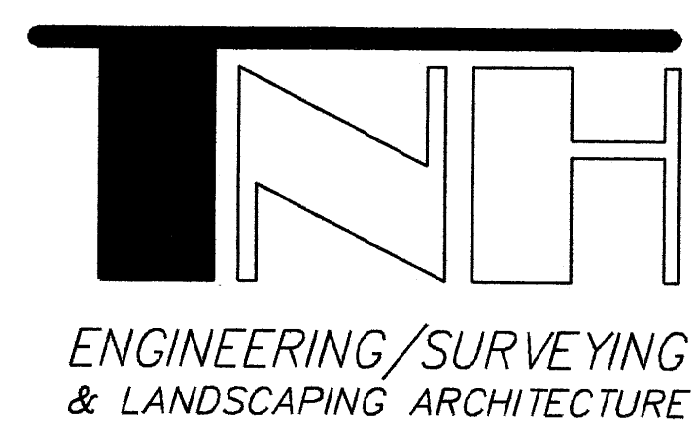
DATE: 21 JULY 63  
DRAWING NUMBER: Q-5-12-30



# CITY OF HOMER KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK



PREPARED BY:



TRYCK NYMAN HAYES, INC.  
911 W. 8TH AVENUE, SUITE 300  
ANCHORAGE, AK 99501  
TEL: (907) 279-0543 • FAX: (907) 276-7679

FOR:

PORT OF HOMER  
4350 HOMER SPIT RD.  
HOMER, AK 99603

PLOT SCALE: 1:1 PLOT DATE: 06/12/03 PLOT VIEW: P1

REV.	DATE	BY	AS BUILT	REVISION
1	6/12/03	MEH	AS BUILT	

FIELD BOOKS	CHECKED	M.S
DRAWN	JWF	
CHECKED	M.S	
DATE	JUNE 2003	
SCALE	NOTED	
JOB NO.	N/A	8239.0

CITY OF HOMER  
TITLE SHEET  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
T1 / 47  
FILE NO.  
8239-11.DWG

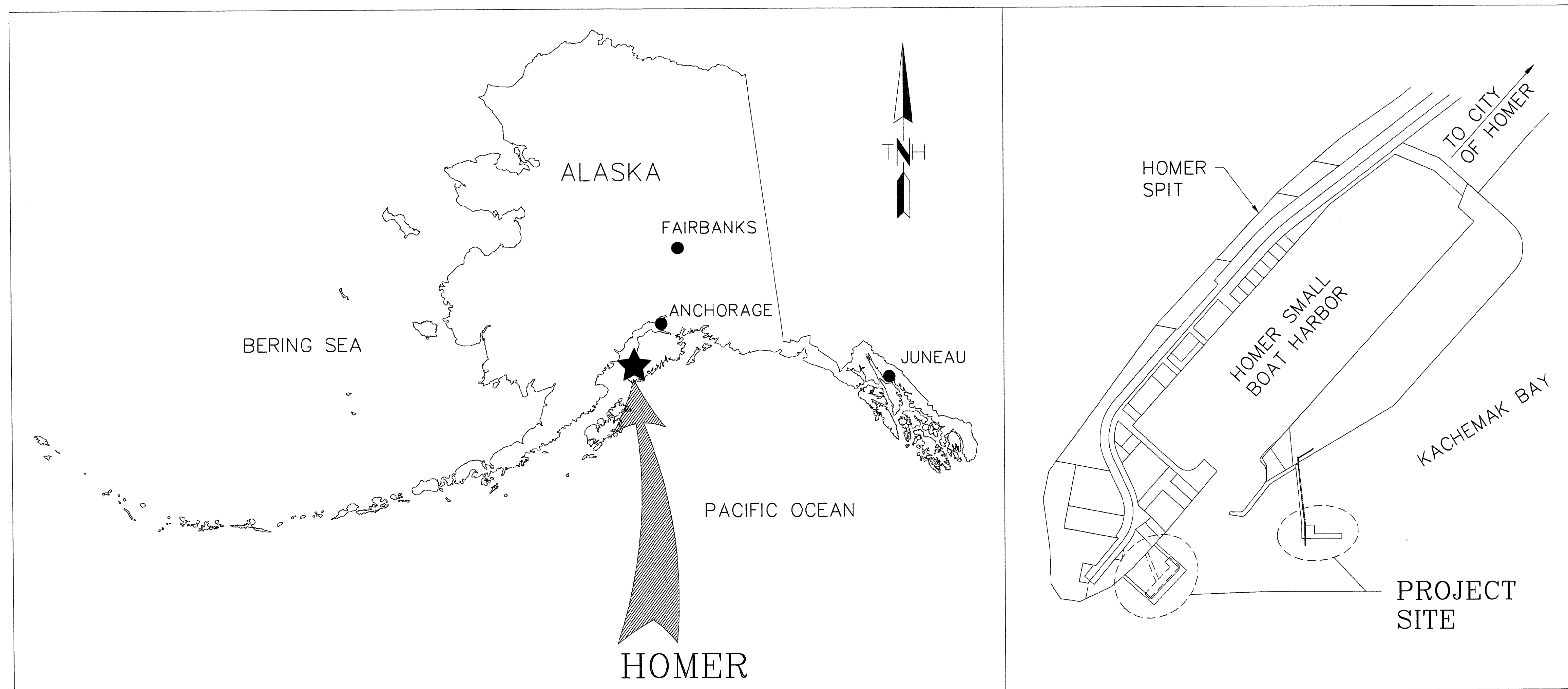
02087



# CITY OF HOMER KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK HOMER, ALASKA

## SHEET INDEX

SHEET DWG. NO	SHEET TITLE	SHEET DWG. NO	SHEET TITLE	SHEET DWG. NO	SHEET TITLE
<b>TITLE SHEETS</b>					
T-1	TITLE SHEET	S-1	DOCK PLAN	S-23	PREMANUFACTURED BUILDINGS
T-2	TITLE SHEET AND LOCATION MAPS	S-2	PILE PLAN	S-24	MISCELLANEOUS DETAILS
<b>CONSTRUCTION SEQUENCING DRAWINGS</b>					
CS-1	CONSTRUCTION SEQUENCING PLAN	S-3	PILE CAP PLAN	S-25	RELOCATED FENDERS - ADD ALT 1
<b>DEMOLITION DRAWINGS</b>					
D-1	TIMBER DOCK DEMOLITION PLAN	S-4	DECK PANEL LAYOUT	S-26	PEDESTRIAN WALKWAY - ADD ALT 2
D-2	TIMBER DOCK DEMOLITION DETAILS	S-5	PILE CAP DETAILS	S-27	TIMBER DOCK REDECKING PLAN - ADD ALT 3
<b>CIVIL DRAWINGS</b>					
C-1	EXISTING CONDITIONS SITE PLAN	S-6	PILE CAP CONNECTION DETAILS	S-28	TIMBER DOCK REDECKING DETAILS - ADD ALT 3
C-2	SANITARY SEWER PLAN PROFILE AND DETAILS	S-7	DECK PANEL DETAILS	S-29	TIMBER DOCK RAILING DETAILS - ADD ALT 3
C-3	WATER PLAN PROFILE AND DETAILS	S-8	DECK PANEL DETAILS	S-30	SIGNING AND STRIPING
C-4	CIVIL DETAILS	S-9	DECK PANEL DETAILS	SK1	REVISED FENDER
C-5	CIVIL DETAILS	S-10	SECTIONS AND DETAILS	SK2	PARTIAL DOCK PLAN
C-6	SHEET PILE WALL PLAN AND ELEVATION	S-11	SECTIONS AND DETAILS	SK3	REMOVABLE BULL RAIL
		S-12	UTILITY TRESTLE PLANS	SK4	TYP FENDER PLAN - LADDER GRIP & ALUM PL
		S-13	UTILITY TRESTLE DETAILS AND SECTIONS	SK5	TYP FENDER PLAN - LADDER GRIP & ALUM PL
		S-14	BULL RAIL DETAILS	SK6	DOLPHIN LIGHT SUPPORT
		S-15	BITTS AND BOLLARDS	ELECTRICAL DRAWINGS E-1 ELECTRICAL SITE PLAN E-2 ELECTRICAL PLAN E-3 DETAILS AND DIAGRAMS E-4 DIAGRAMS, SCHEDULE  CATHODIC PROTECTION DRAWINGS CP-1 CATHODIC PROTECTION SITE PLAN CP-2 CATHODIC PROTECTION ELEVATION CP-3 GROUNDING AND BONDING PLANS	
		S-16	DOLPHIN DETAILS		
		S-17	DOLPHIN DETAILS		
		S-18	FENDER DETAILS		
		S-18A	USCG FENDER DETAILS	N.I.C. ⚠️  ELECTRICAL DRAWINGS E-1 ELECTRICAL SITE PLAN E-2 ELECTRICAL PLAN E-3 DETAILS AND DIAGRAMS E-4 DIAGRAMS, SCHEDULE  CATHODIC PROTECTION DRAWINGS CP-1 CATHODIC PROTECTION SITE PLAN CP-2 CATHODIC PROTECTION ELEVATION CP-3 GROUNDING AND BONDING PLANS	
		S-19	FENDER DETAILS		
		S-20	MISCELLANEOUS DETAILS		
		S-21	MISCELLANEOUS DETAILS		
		S-22	OCEAN DOCK - TIMBER DOCK WALKWAYS		



**VICINITY & LOCATION MAPS**

NOT TO SCALE

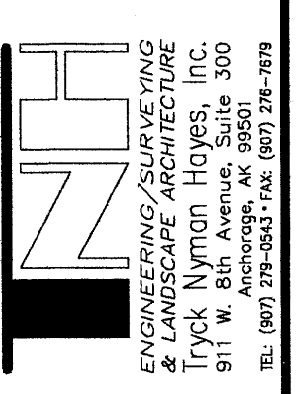
**A PORTION OF THIS PROJECT IS FUNDED BY:**

ALASKA DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
PROJECT # 75267/STP-021-1(40)

US DEPARTMENT OF COMMERCE  
ECONOMIC DEVELOPMENT ADMINISTRATION  
AWARD NO. 07-01-04741

US COAST GUARD

REV.	DATE	BY	REVISION
1	6/12/03	WEH	AS-BUILT

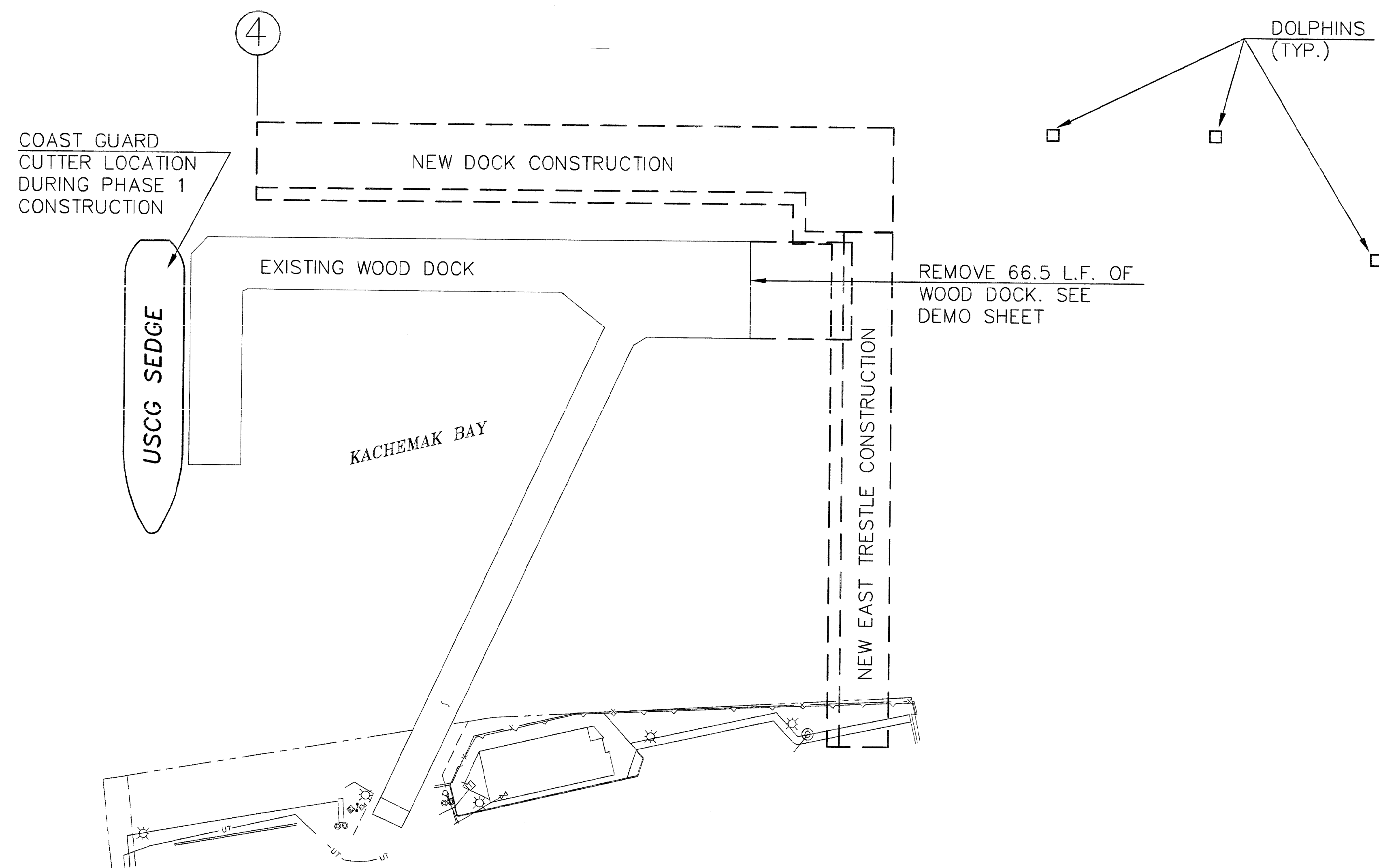


CITY OF HOMER  
 SHEET INDEX, VICINITY  
 AND LOCATION MAPS  
 KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
T2 / 47

02088

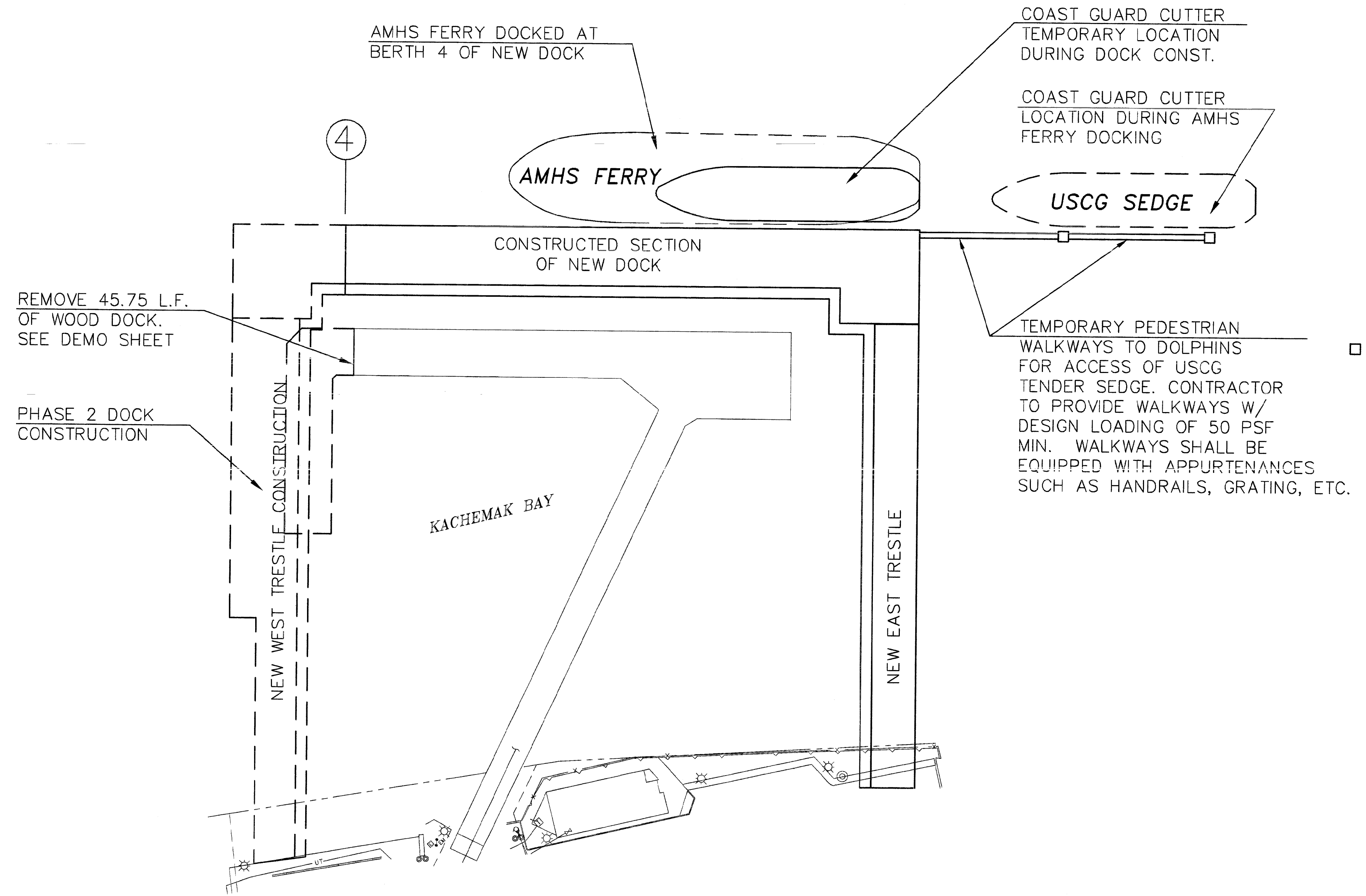
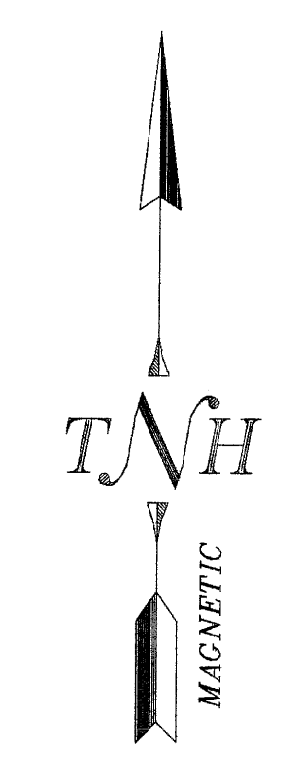
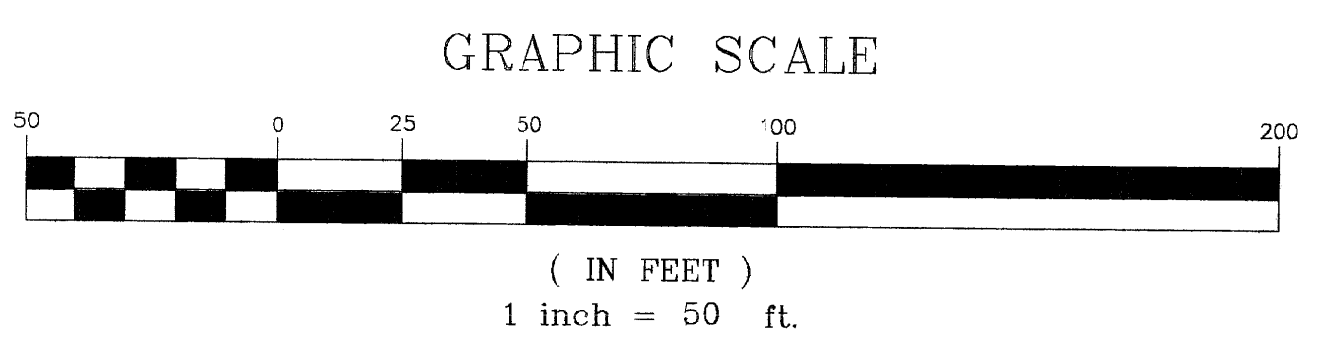
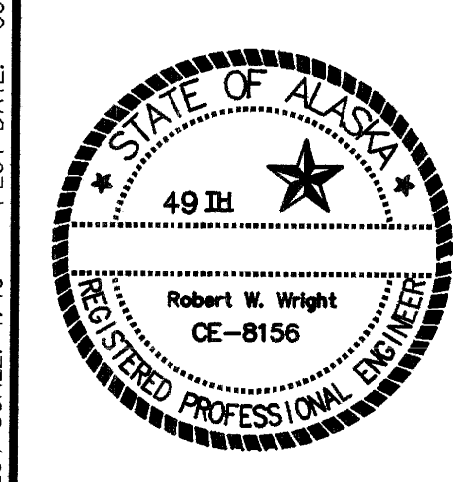
8230\_T2.DWG



### CONSTRUCTION PHASE 1

**NOTE:**  
CONTRACTOR SHALL ACCOMMODATE AND SCHEDULE AROUND AHMS, AND FUEL BARGE BERTHING UNTIL SUCH TIME AS CONSTRUCTION OF THE DOCK ENCHROACHES ON BERTHING.

PLOT SCALE: 1:40 PLOT DATE: 06/12/03 PLOT VIEW: P1



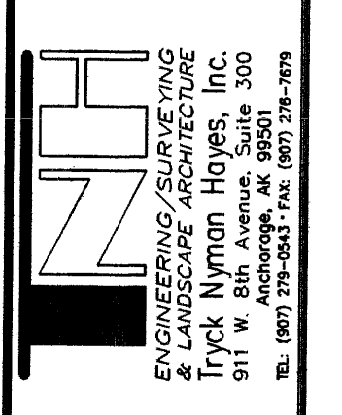
### CONSTRUCTION PHASE 2

**NOTE:**  
CONTRACTOR SHALL NOT BEGIN PHASE 2 UNTIL DOCK AND FENDERS ARE COMPLETED FOR PHASE 1. CONTRACTOR SHALL ACCOMMODATE AND SCHEDULE AROUND NORMAL PORT ACTIVITIES, INCLUDING COAST GUARD, AMHS, AND FUEL BARGES DURING PHASE 2. NEW EAST TRESTLE SHALL BE COMPLETE PRIOR TO CONSTRUCTION OF NEW DOCK.

REV.	DATE	BY	AS-BUILT	REVISION
1	02/03	WEH	AS-BUILT	

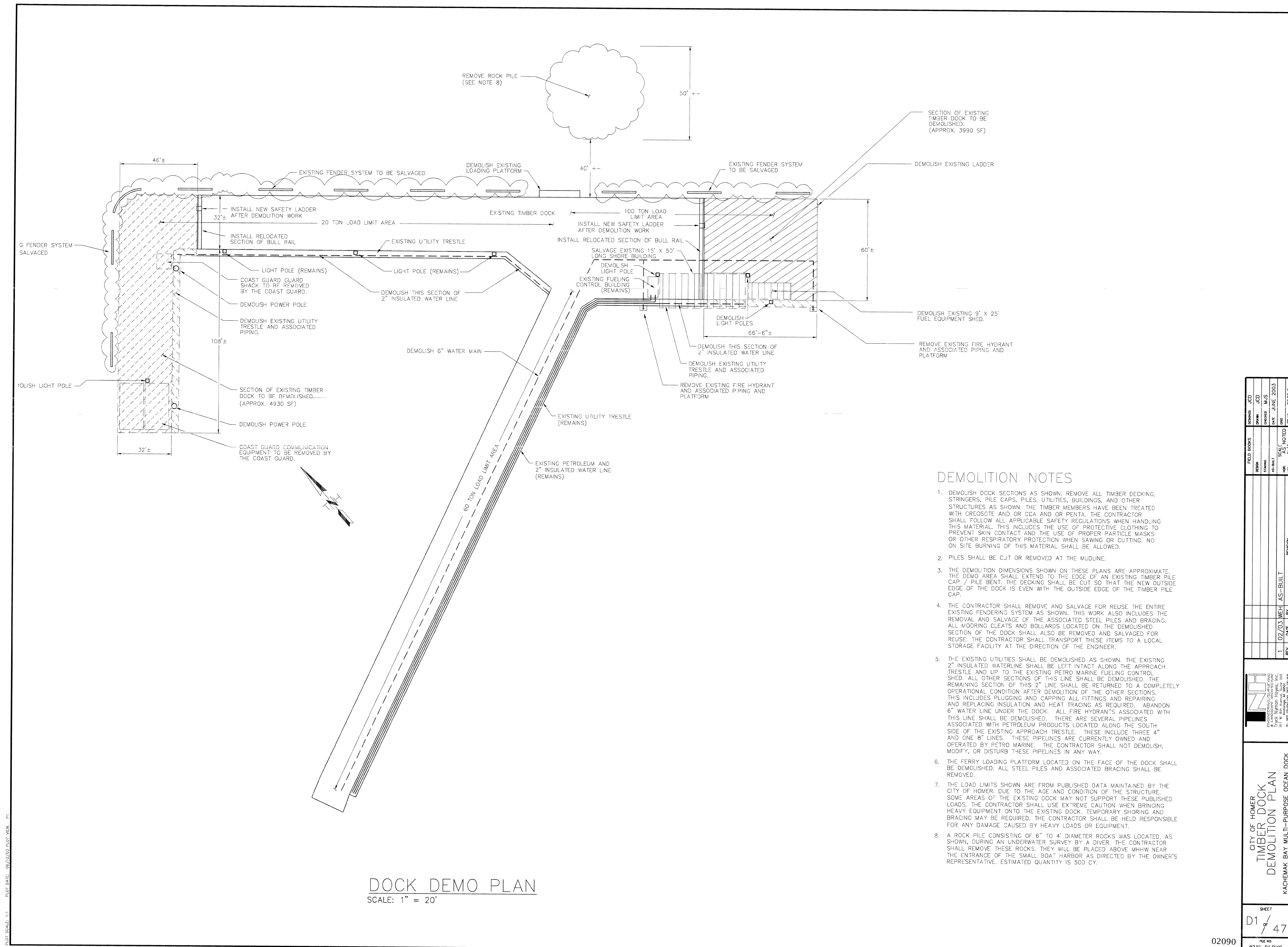
FIELD BOOKS	DATE	BY	SCALE	JOB NO.
			40'	8239.0



CITY OF HOMER  
CONSTRUCTION SEQUENCING PLAN  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
CS1 / 47



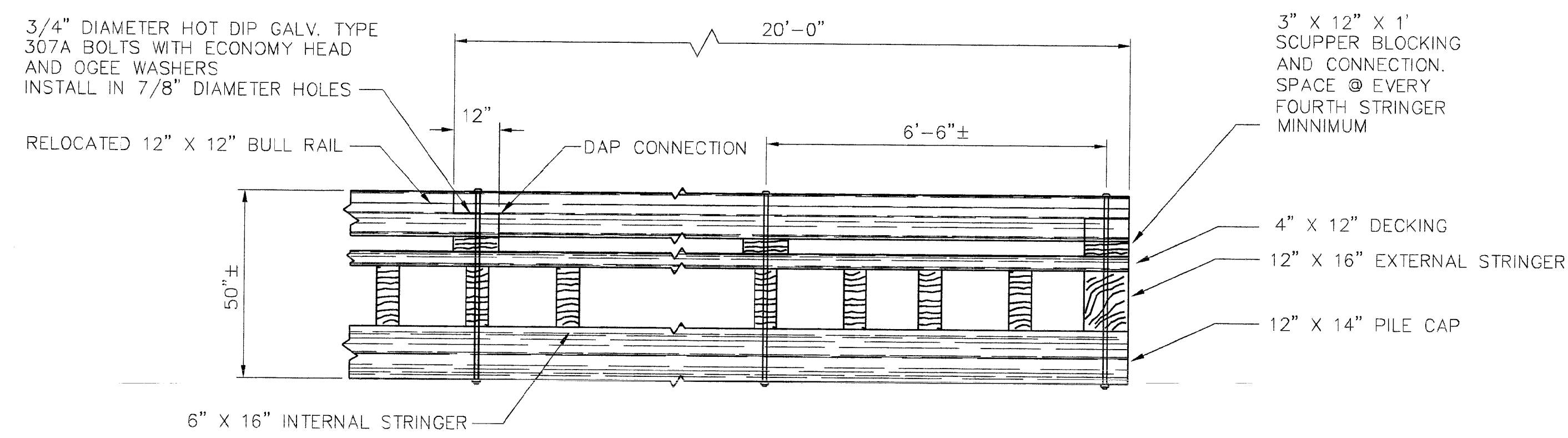


**DOCK DEMO PLAN**  
SCALE: 1" = 20'

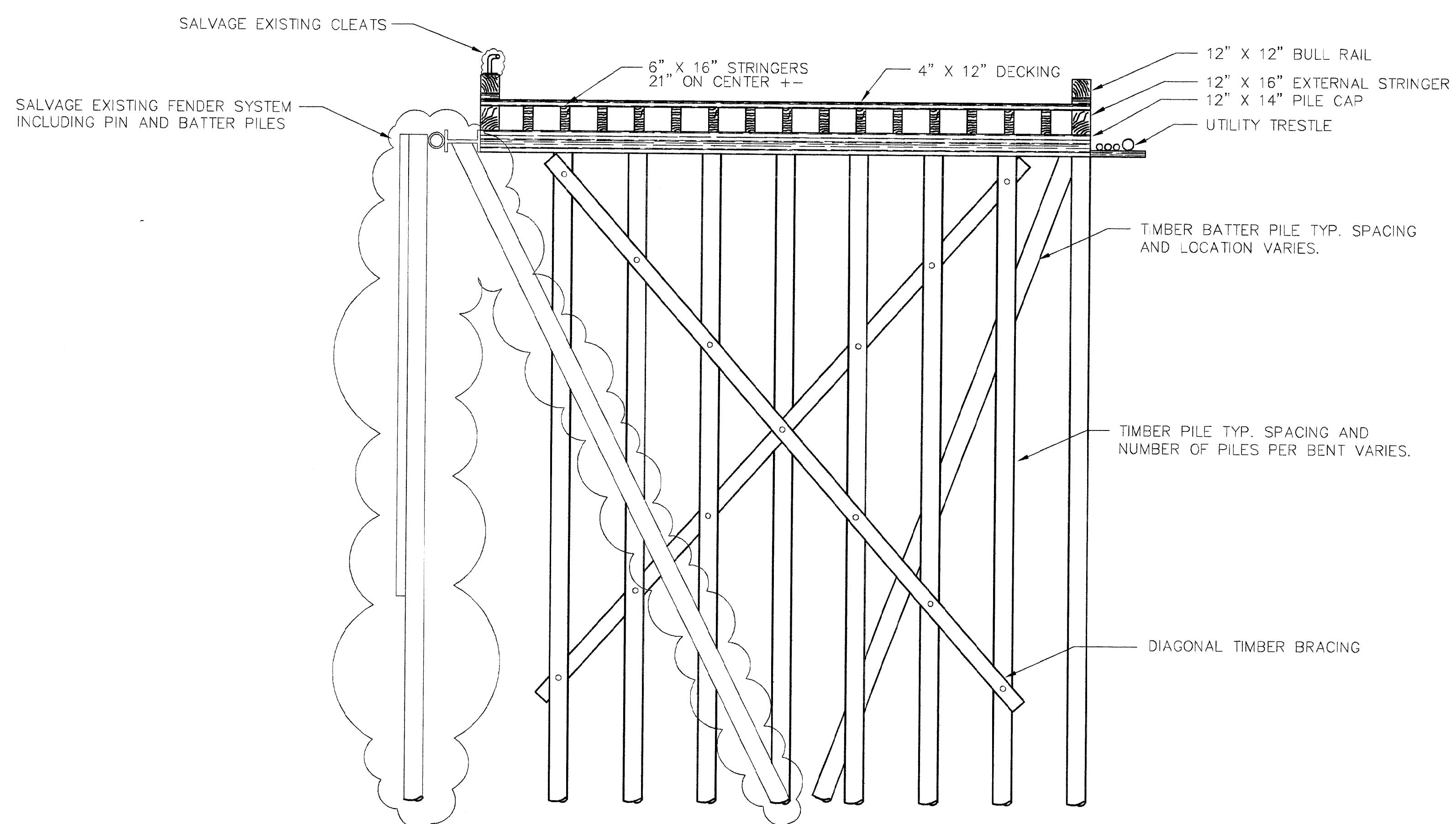
**DEMOLITION NOTES**

1. DEMOLISH DOCK SECTIONS AS SHOWN. REMOVE ALL TIMBER DECKING, STRINGERS, PILE CAPS, PILES, UTILITIES, BUILDINGS, AND OTHER STRUCTURES AS SHOWN. THE TIMBER MEMBERS HAVE BEEN TREATED WITH CREOSOTE AND OR CCA AND OR PENTA. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE SAFETY REGULATIONS WHEN HANDLING THIS MATERIAL. THIS INCLUDES THE USE OF PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT AND THE USE OF PROPER PARTICLE MASKS OR OTHER RESPIRATORY PROTECTION WHEN SAWING OR CUTTING. NO ON SITE BURNING OF THIS MATERIAL SHALL BE ALLOWED.
2. PILES SHALL BE CUT OR REMOVED AT THE MUDLINE.
3. THE DEMOLITION DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE DEMO AREA SHALL EXTEND TO THE EDGE OF AN EXISTING TIMBER PILE CAP / PILE BENT. THE DECKING SHALL BE CUT SO THAT THE NEW OUTSIDE EDGE OF THE DOCK IS EVEN WITH THE OUTSIDE EDGE OF THE TIMBER PILE CAP.
4. THE CONTRACTOR SHALL REMOVE AND SALVAGE FOR REUSE THE ENTIRE EXISTING FENDERING SYSTEM AS SHOWN. THIS WORK ALSO INCLUDES THE REMOVAL AND SALVAGE OF THE ASSOCIATED STEEL PILES AND BRACING. ALL WOODING GLEATS AND BOLLARDS LOCATED ON THE DEMOLISHED SECTION OF THE DOCK SHALL ALSO BE REMOVED AND SALVAGED FOR REUSE. THE CONTRACTOR SHALL TRANSPORT THESE ITEMS TO A LOCAL STORAGE FACILITY AT THE DIRECTION OF THE ENGINEER.
5. THE EXISTING UTILITIES SHALL BE DEMOLISHED AS SHOWN. THE EXISTING 2" INSULATED WATERLINE SHALL BE LEFT INTACT ALONG THE APPROACH TRESTLE AND UP TO THE EXISTING PETRO MARINE FUELING CONTROL SHED. ALL OTHER SECTIONS OF THIS LINE SHALL BE DEMOLISHED. THE REMAINING SECTION OF THIS 2" LINE SHALL BE RETURNED TO A COMPLETELY OPERATIONAL CONDITION AFTER DEMOLITION OF THE OTHER SECTIONS. THIS INCLUDES PLUGGING AND CAPPING ALL FITTINGS AND REPAIRING AND REPLACING INSULATION AND HEAT TRACING AS REQUIRED. ABANDON 6" WATER LINE UNDER THE DOCK. ALL FIRE HYDRANTS ASSOCIATED WITH THIS LINE SHALL BE DEMOLISHED. THERE ARE SEVERAL PIPELINES ASSOCIATED WITH PETROLEUM PRODUCTS LOCATED ALONG THE SOUTH SIDE OF THE EXISTING APPROACH TRESTLE. THESE INCLUDE THREE 4" AND ONE 8" LINES. THESE PIPELINES ARE CURRENTLY OWNED AND OPERATED BY PETRO MARINE. THE CONTRACTOR SHALL NOT DEMOLISH, MODIFY, OR DISTURB THESE PIPELINES IN ANY WAY.
6. THE FERRY LOADING PLATFORM LOCATED ON THE FACE OF THE DOCK SHALL BE DEMOLISHED. ALL STEEL PILES AND ASSOCIATED BRACING SHALL BE REMOVED.
7. THE LOAD LIMITS SHOWN ARE FROM PUBLISHED DATA MAINTAINED BY THE CITY OF HOMER. DUE TO THE AGE AND CONDITION OF THE STRUCTURE, SOME AREAS OF THE EXISTING DOCK MAY NOT SUPPORT THESE PUBLISHED LOADS. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN BRINGING HEAVY EQUIPMENT ONTO THE EXISTING DOCK. TEMPORARY SHORING AND BRACING MAY BE REQUIRED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED BY HEAVY LOADS OR EQUIPMENT.
8. A ROCK PILE CONSISTING OF 6" TO 4' DIAMETER ROCKS WAS LOCATED, AS SHOWN, DURING AN UNDERWATER SURVEY BY A DIVER. THE CONTRACTOR SHALL REMOVE THESE ROCKS. THEY WILL BE PLACED ABOVE MHHW NEAR THE ENTRANCE OF THE SMALL BOAT HARBOR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. ESTIMATED QUANTITY IS 500 CY.

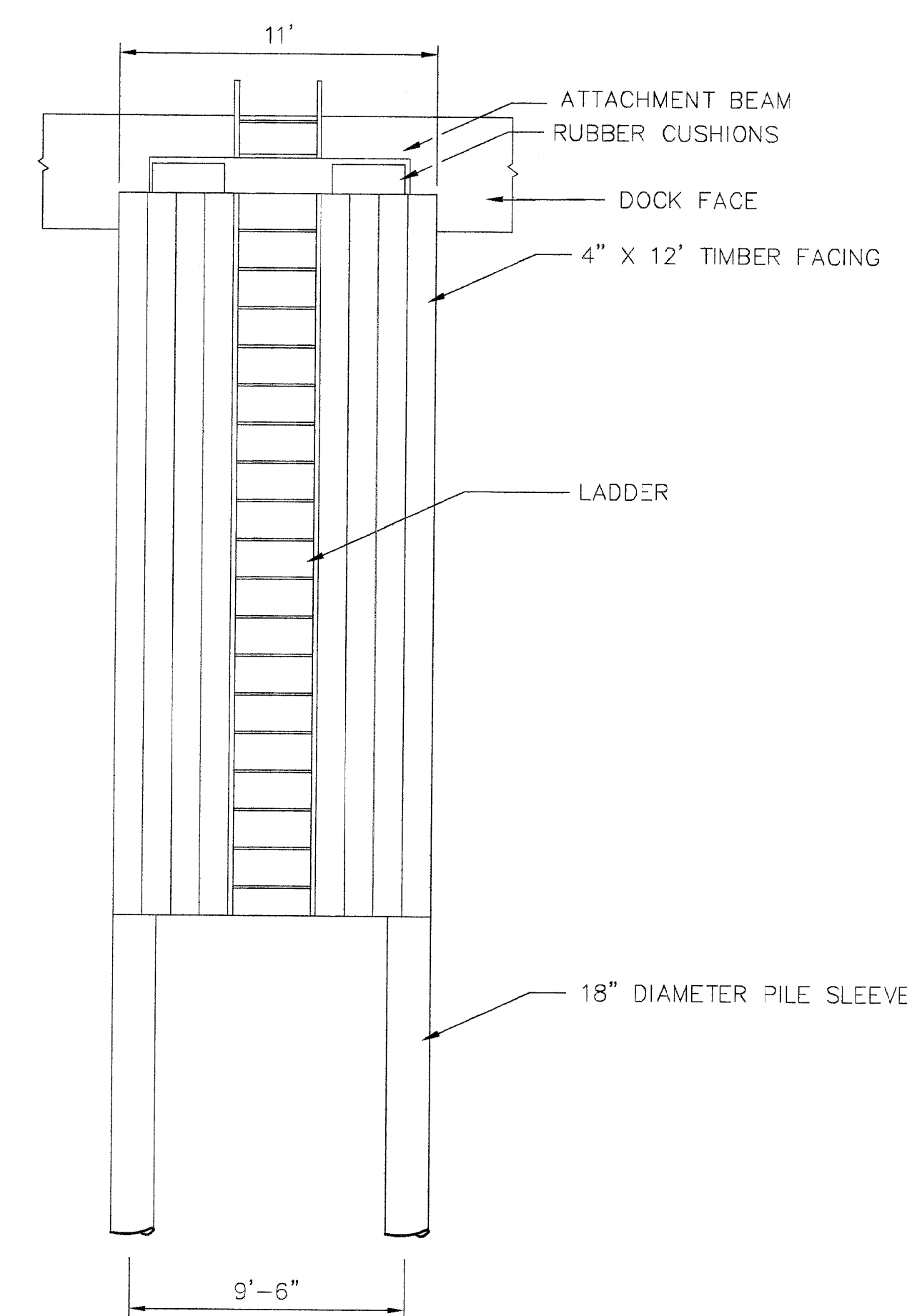
DESIGNED	JCD	DATE	JUNE 2003
DRAWN	JCD	DATE	JUNE 2003
CHECKED	MJS	DATE	JUNE 2003
AS-BUILT		DATE	
SCALE	NOTED	DATE	
REV	BY	DATE	REVISION
1	MEH	02/03	AS-BUILT
FIELD BOOKS JCD MJS SCALE: N/A SHEET NO. 8239.0			
<b>CITY OF HOMER</b> <b>TIMBER DOCK</b> <b>DEMOLITION PLAN</b> KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK			
SHEET <b>D1</b> / 47			
FILE NO. 8239_D1.DWG			



1 RELOCATED BULL RAIL DETAILS  
 02/02 SCALE: N.T.S.



2 TYPICAL DOCK SECTION  
 02/02 SCALE: 1" = 5'



3 TYPICAL FENDER UNIT  
 02/02 SCALE: 1" = 5'

FENDER NOTES

THE EXISTING FENDERS SHALL BE REMOVED AND SALVAGED FOR REUSE. THIS INCLUDES THE FENDER UNITS, RUBBER CUSHIONS, PIN PILES, BATTER PILES, SUPPORT BEAMS AND RELATED HARDWARE. THERE ARE A TOTAL OF TEN 11' WIDE FENDER UNITS AS SHOWN AND ONE SEMI CIRCULAR UNIT ON THE N.E. CORNER OF THE EXISTING DOCK.  
 THE CONTRACTOR SHALL TRANSPORT THESE ITEMS TO A LOCAL STORAGE FACILITY AT THE DIRECTION OF THE ENGINEER.

PLOT DATE: 06/22/03 PLOT VIEW: P2

REV.	DATE	BY	AS-BUILT	REVISION
1	02/03	WEH	AS-BUILT	

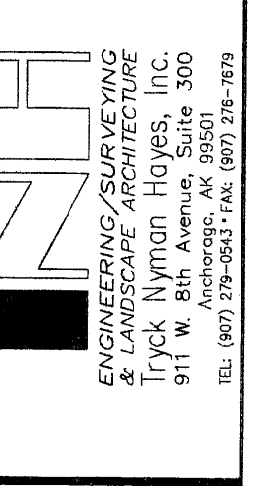
FIELD BOOKS	CD
02/02	02/03

DATE	SCALE	AS NOTED
JUNE 2003	1/4"	N/A

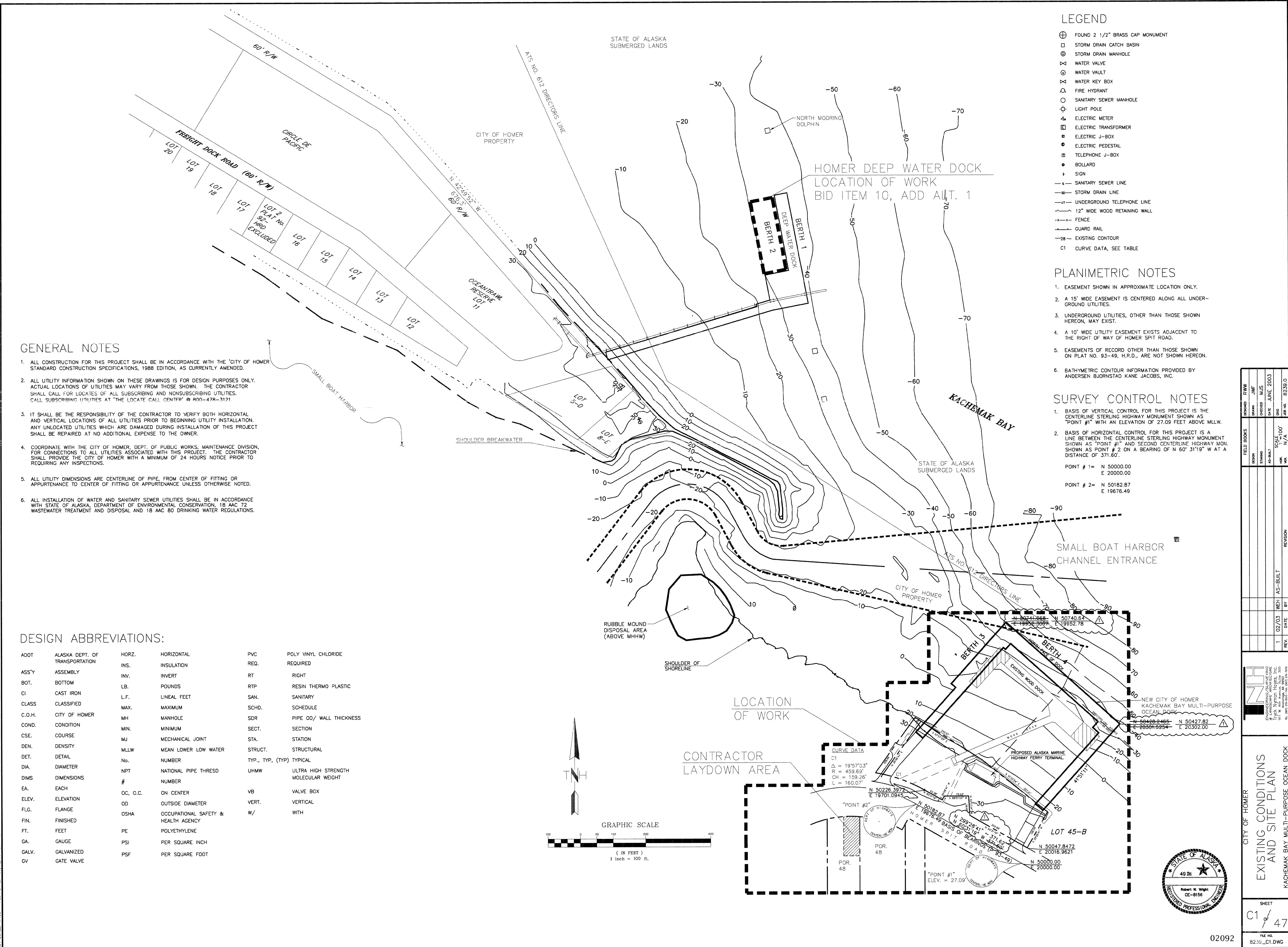
DATE	SCALE	AS NOTED
JUNE 2003	1/4"	N/A



CITY OF HOMER  
 TIMBER DOCK  
 DEMOLITION DETAILS  
 KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
 D2 / 47  
 FILE NO.  
 8239\_01.DWG





**GENERAL NOTES**

1. ALL CONSTRUCTION FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE 'CITY OF HOMER STANDARD CONSTRUCTION SPECIFICATIONS, 1988 EDITION, AS CURRENTLY AMENDED.
2. ALL UTILITY INFORMATION SHOWN ON THESE DRAWINGS IS FOR DESIGN PURPOSES ONLY. ACTUAL LOCATIONS OF UTILITIES MAY VARY FROM THOSE SHOWN. THE CONTRACTOR SHALL CALL FOR LOCATES OF ALL SUBSCRIBING AND NONSUBSCRIBING UTILITIES. CALL SUBSCRIBING UTILITIES AT 'THE LOCATE CALL CENTER' @ 907-474-3121.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES PRIOR TO BEGINNING UTILITY INSTALLATION. ANY UNLOCATED UTILITIES WHICH ARE DAMAGED DURING INSTALLATION OF THIS PROJECT SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
4. COORDINATE WITH THE CITY OF HOMER, DEPT. OF PUBLIC WORKS, MAINTENANCE DIVISION, FOR CONNECTIONS TO ALL UTILITIES ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL PROVIDE THE CITY OF HOMER WITH A MINIMUM OF 24 HOURS NOTICE PRIOR TO REQUIRING ANY INSPECTIONS.
5. ALL UTILITY DIMENSIONS ARE CENTERLINE OF PIPE, FROM CENTER OF FITTING OR APPURTENANCE TO CENTER OF FITTING OR APPURTENANCE UNLESS OTHERWISE NOTED.
6. ALL INSTALLATION OF WATER AND SANITARY SEWER UTILITIES SHALL BE IN ACCORDANCE WITH STATE OF ALASKA, DEPARTMENT OF ENVIRONMENTAL CONSERVATION, 18 AAC 72 WASTEWATER TREATMENT AND DISPOSAL AND 18 AAC 80 DRINKING WATER REGULATIONS.

**DESIGN ABBREVIATIONS:**

ADOT	ALASKA DEPT. OF TRANSPORTATION	HORZ.	HORIZONTAL	PVC	POLY VINYL CHLORIDE
ASS'Y	ASSEMBLY	INS.	INSULATION	REQ.	REQUIRED
BOT.	BOTTOM	INV.	INVERT	RT	RIGHT
CI	CAST IRON	LB.	POUNDS	RTP	RESIN THERMO PLASTIC
CLASS	CLASSIFIED	L.F.	LINEAL FEET	SAN.	SANITARY
C.O.H.	CITY OF HOMER	MAX.	MAXIMUM	SCHD.	SCHEDULE
COND.	CONDITION	MH	MANHOLE	SDR	PIPE OD/ WALL THICKNESS
CSE.	COURSE	MIN.	MINIMUM	SECT.	SECTION
DEN.	DENSITY	MJ	MECHANICAL JOINT	STA.	STATION
DET.	DETAIL	MLLW	MEAN LOWER LOW WATER	STRUCT.	STRUCTURAL
DIA.	DIAMETER	No.	NUMBER	TYP., TYP. (TYP)	TYPICAL
DIMS	DIMENSIONS	NPT	NATIONAL PIPE THRESD	UHMW	ULTRA HIGH STRENGTH MOLECULAR WEIGHT
EA.	EACH	#	NUMBER		
ELEV.	ELEVATION	OC, O.C.	ON CENTER	VB	VALVE BOX
FLG.	FLANGE	OD	OUTSIDE DIAMETER	VERT.	VERTICAL
FIN.	FINISHED	OSHA	OCCUPATIONAL SAFETY & HEALTH AGENCY	W/	WITH
FT.	FEET	PE	POLYETHYLENE		
GA.	GAUGE	PSI	PER SQUARE INCH		
GALV.	GALVANIZED	PSF	PER SQUARE FOOT		
GV	GATE VALVE				

**LEGEND**

- ⊕ FOUND 2 1/2" BRASS CAP MONUMENT
- ⊠ STORM DRAIN CATCH BASIN
- ⊙ STORM DRAIN MANHOLE
- ⊞ WATER VALVE
- ⊚ WATER VAULT
- ⊛ WATER KEY BOX
- ⊜ FIRE HYDRANT
- SANITARY SEWER MANHOLE
- ⊕ LIGHT POLE
- ⊞ ELECTRIC METER
- ⊞ ELECTRIC TRANSFORMER
- ⊞ ELECTRIC J-BOX
- ⊞ ELECTRIC PEDESTAL
- ⊞ TELEPHONE J-BOX
- BOLLARD
- ⊞ SIGN
- S— SANITARY SEWER LINE
- SD— STORM DRAIN LINE
- UT— UNDERGROUND TELEPHONE LINE
- R— 12" WIDE WOOD RETAINING WALL
- x-x- FENCE
- G— GUARD RAIL
- 28- EXISTING CONTOUR
- C1 CURVE DATA, SEE TABLE

**PLANIMETRIC NOTES**

1. EASEMENT SHOWN IN APPROXIMATE LOCATION ONLY.
2. A 15' WIDE EASEMENT IS CENTERED ALONG ALL UNDERGROUND UTILITIES.
3. UNDERGROUND UTILITIES, OTHER THAN THOSE SHOWN HEREON, MAY EXIST.
4. A 10' WIDE UTILITY EASEMENT EXISTS ADJACENT TO THE RIGHT OF WAY OF HOMER SPIT ROAD.
5. EASEMENTS OF RECORD OTHER THAN THOSE SHOWN ON PLAT NO. 93-49, H.R.D., ARE NOT SHOWN HEREON.
6. BATHYMETRIC CONTOUR INFORMATION PROVIDED BY ANDERSEN BJORNSTAD KANE JACOBS, INC.

**SURVEY CONTROL NOTES**

1. BASIS OF VERTICAL CONTROL FOR THIS PROJECT IS THE CENTERLINE STERLING HIGHWAY MONUMENT SHOWN AS "POINT #1" WITH AN ELEVATION OF 27.09 FEET ABOVE MLLW.
  2. BASIS OF HORIZONTAL CONTROL FOR THIS PROJECT IS A LINE BETWEEN THE CENTERLINE STERLING HIGHWAY MONUMENT SHOWN AS "POINT #1" AND SECOND CENTERLINE HIGHWAY MON. SHOWN AS POINT #2 ON A BEARING OF N 60° 31'19" W AT A DISTANCE OF 371.60'.
- POINT # 1 = N 50000.00  
E 20000.00
- POINT # 2 = N 50182.87  
E 19676.49

REV.	DATE	BY	REVISION
1	02/03	WEH	AS-BUILT

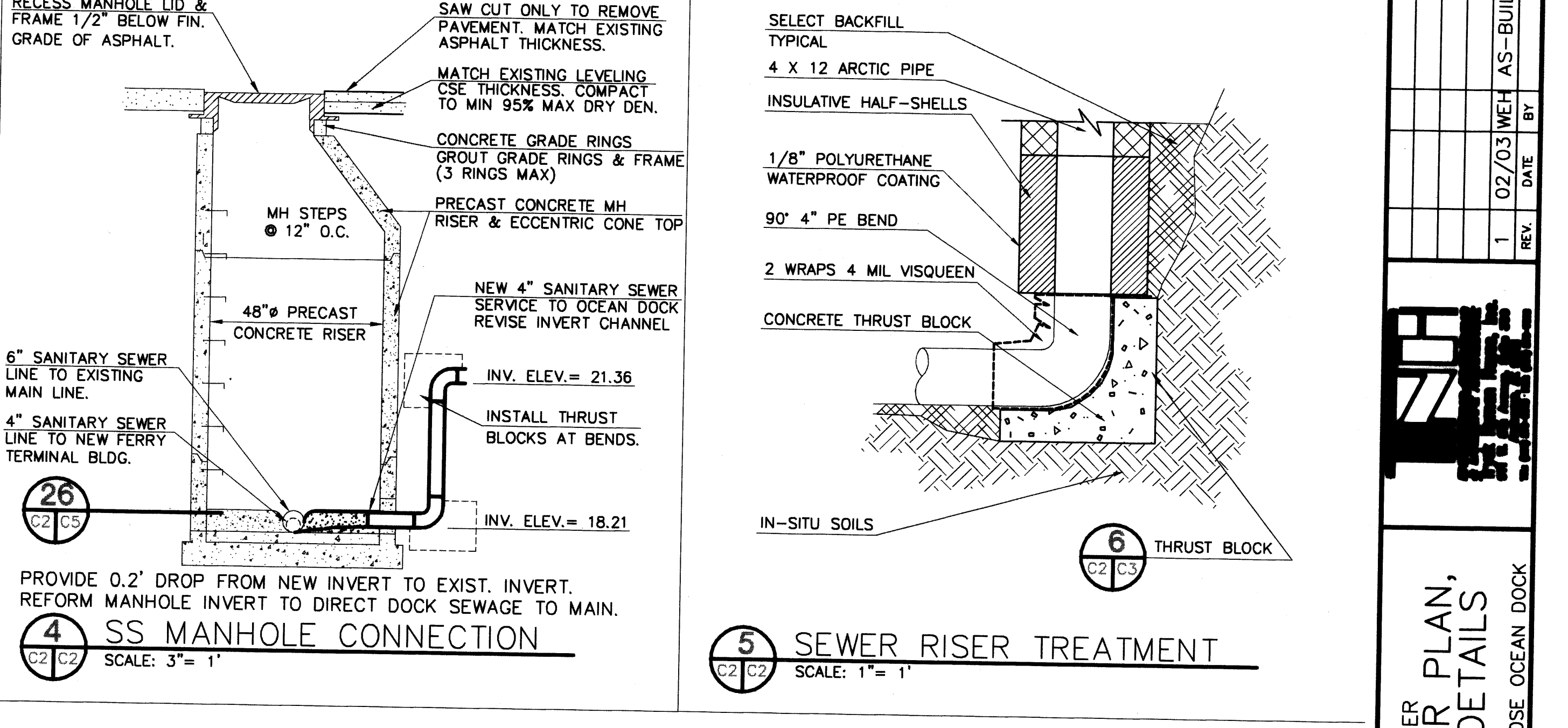
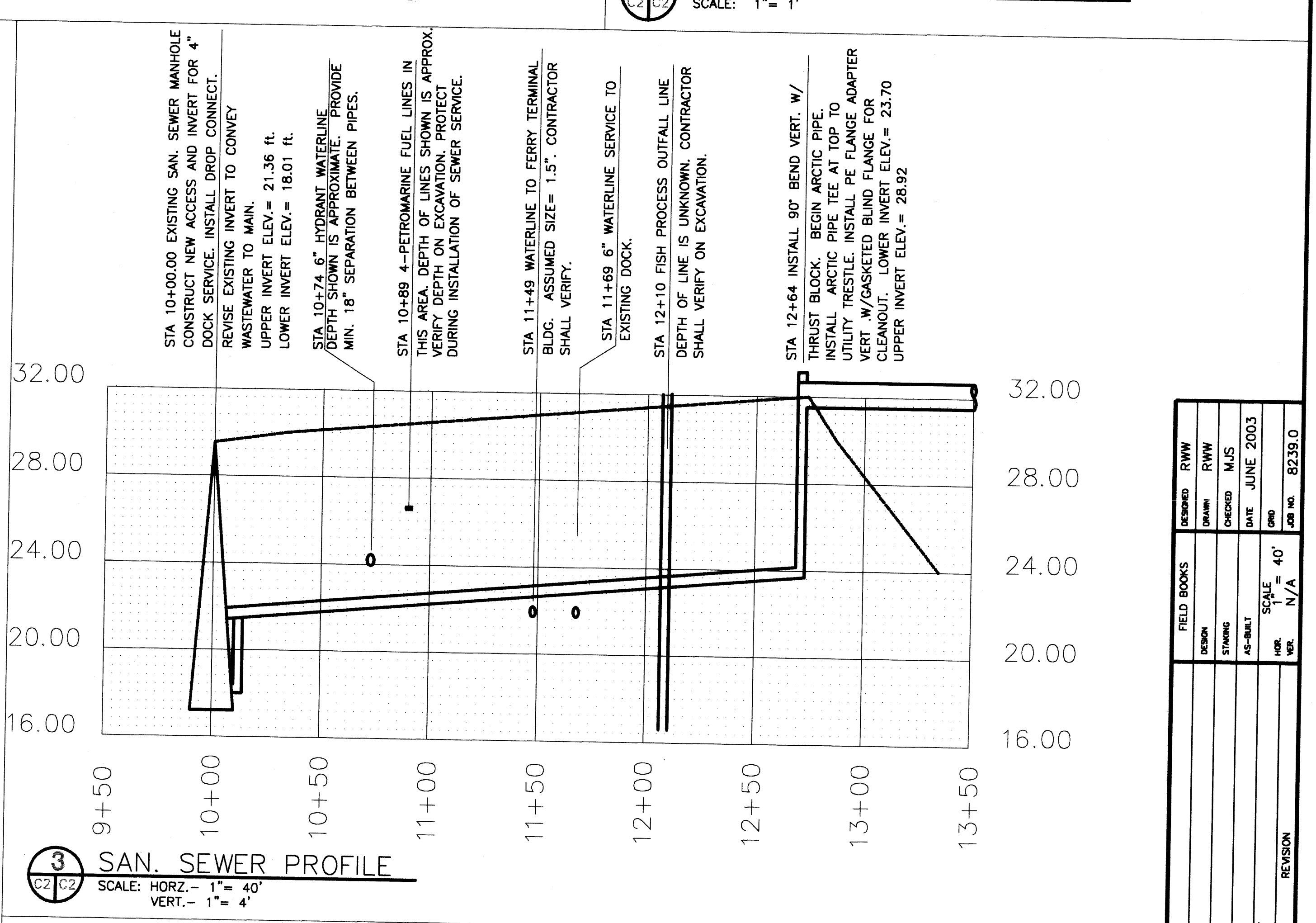
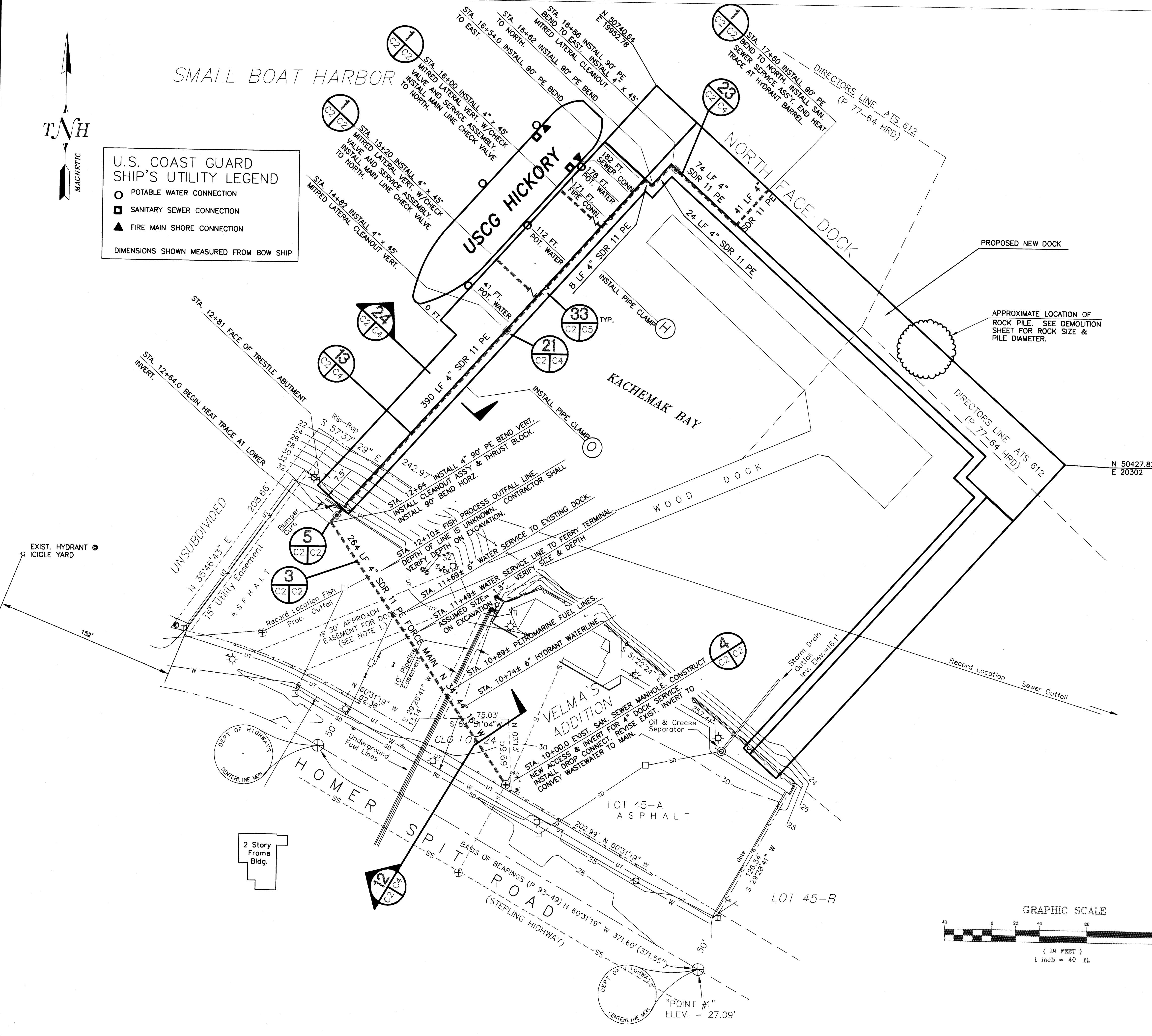
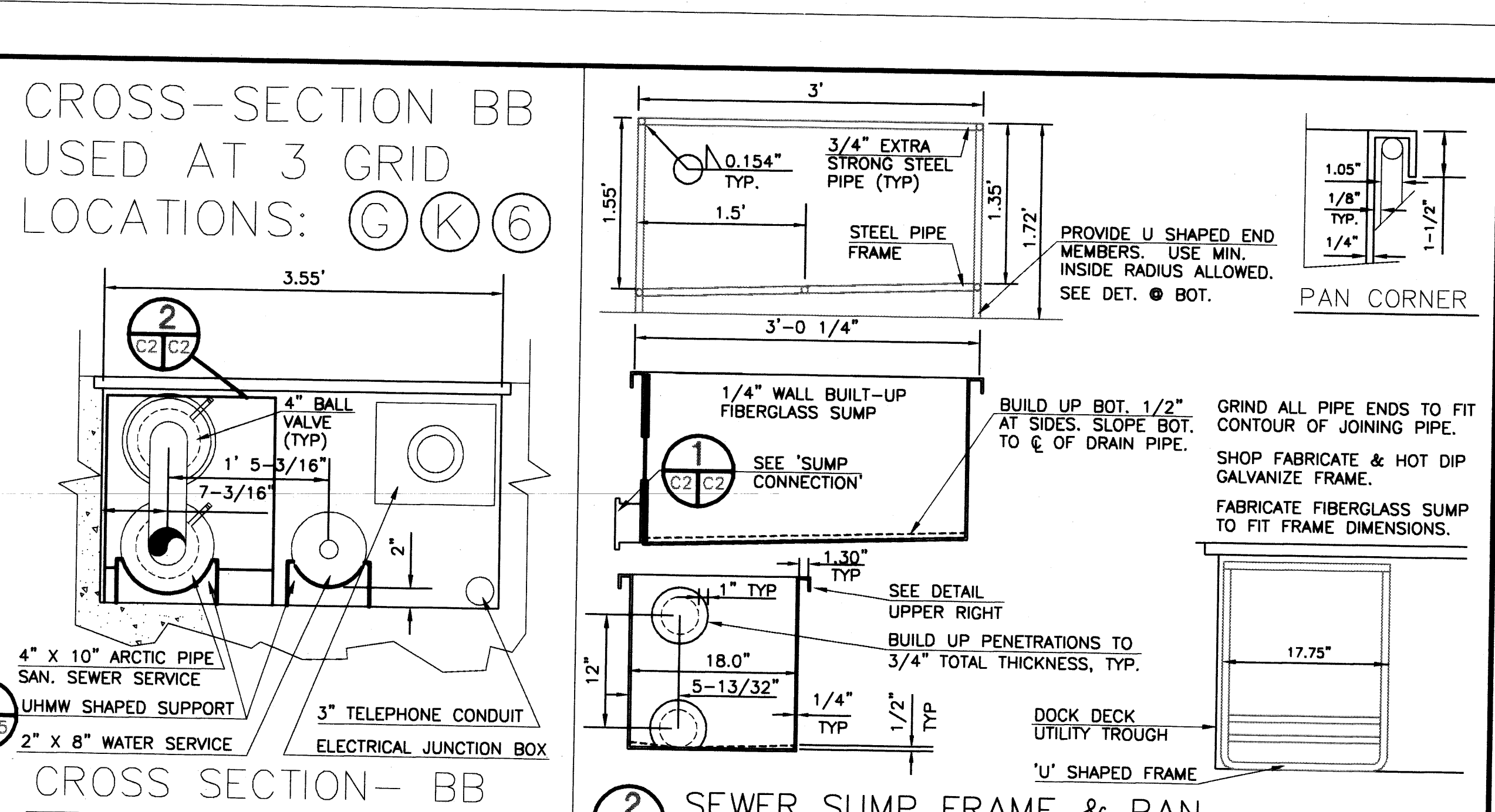
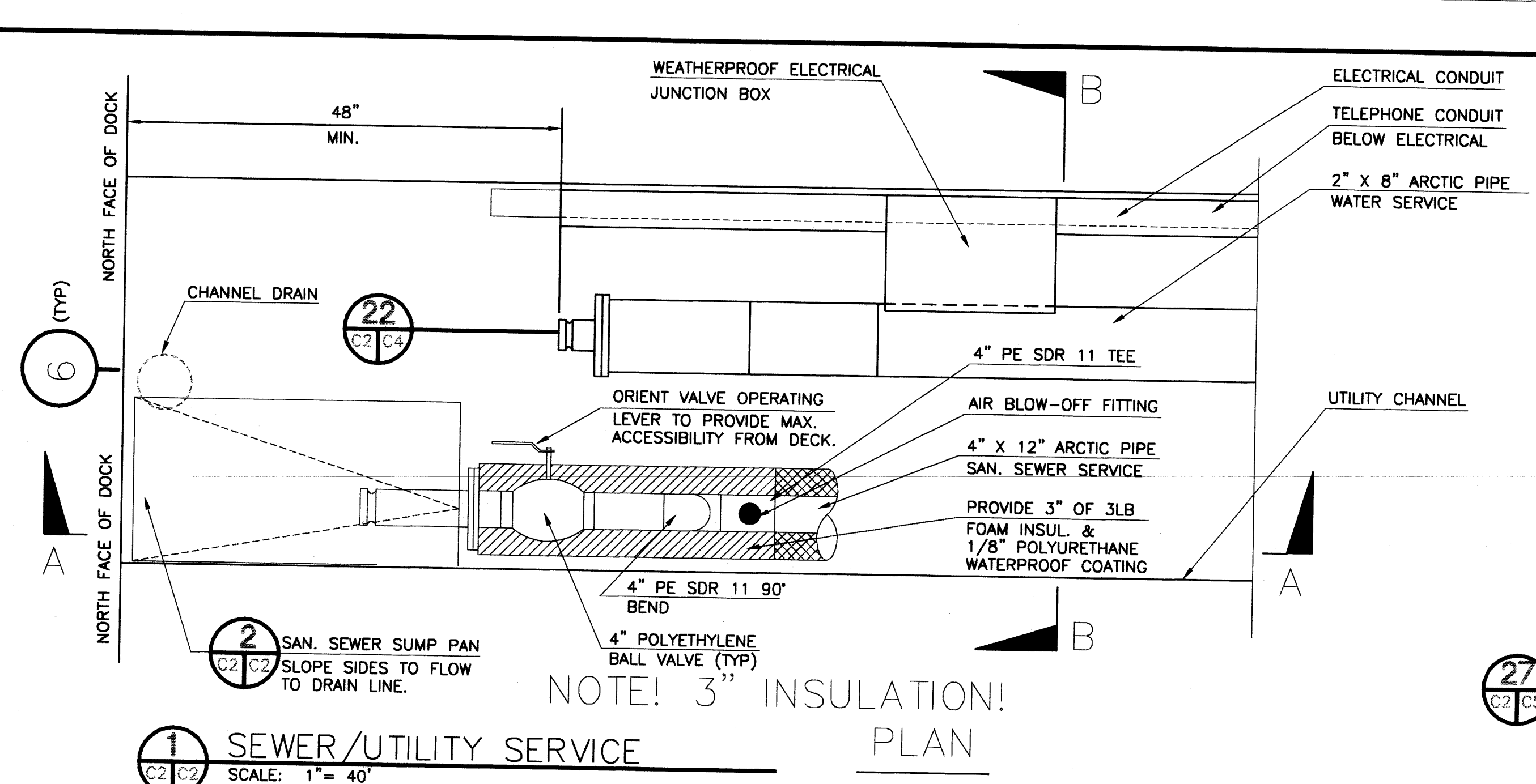
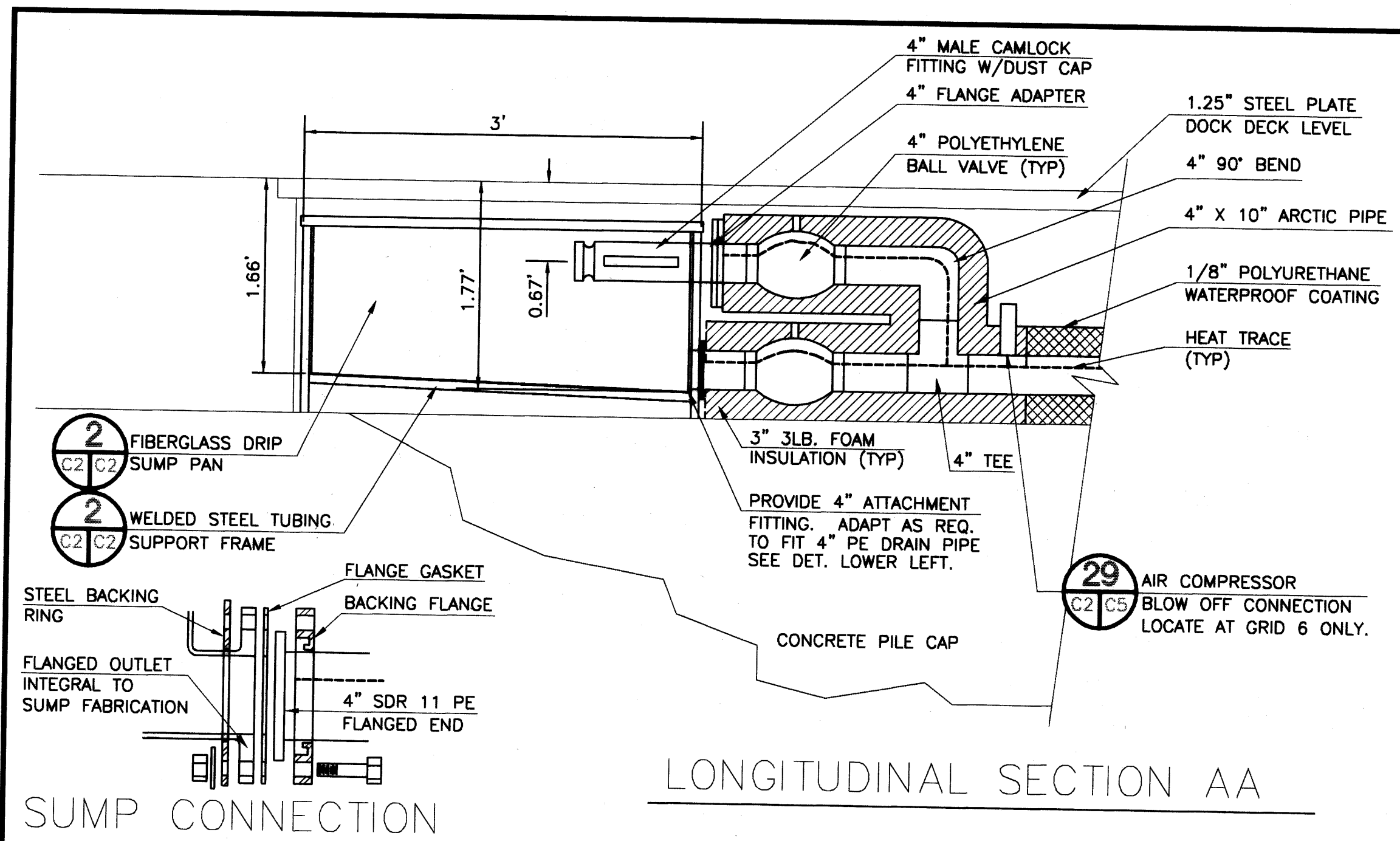
CITY OF HOMER  
EXISTING CONDITIONS  
AND SITE PLAN  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

STATE OF ALASKA  
REGISTERED PROFESSIONAL ENGINEER  
4834  
ROBERT W. WRIGHT  
CE-8156

SHEET  
C1 / 47

FILE NO.  
8239\_C1.DWG





U.S. COAST GUARD SHIP'S UTILITY LEGEND

- POTABLE WATER CONNECTION
- SANITARY SEWER CONNECTION
- FIRE MAIN SHORE CONNECTION

DIMENSIONS SHOWN MEASURED FROM BOW SHIP

RECORD DRAWING

CHANGES TO THE DESIGN DRAWING REFLECT THE ACCURACY OF CONSTRUCTION CHANGES AS SHOWN ON THE CONTRACTOR'S REDLINE DRAWINGS.

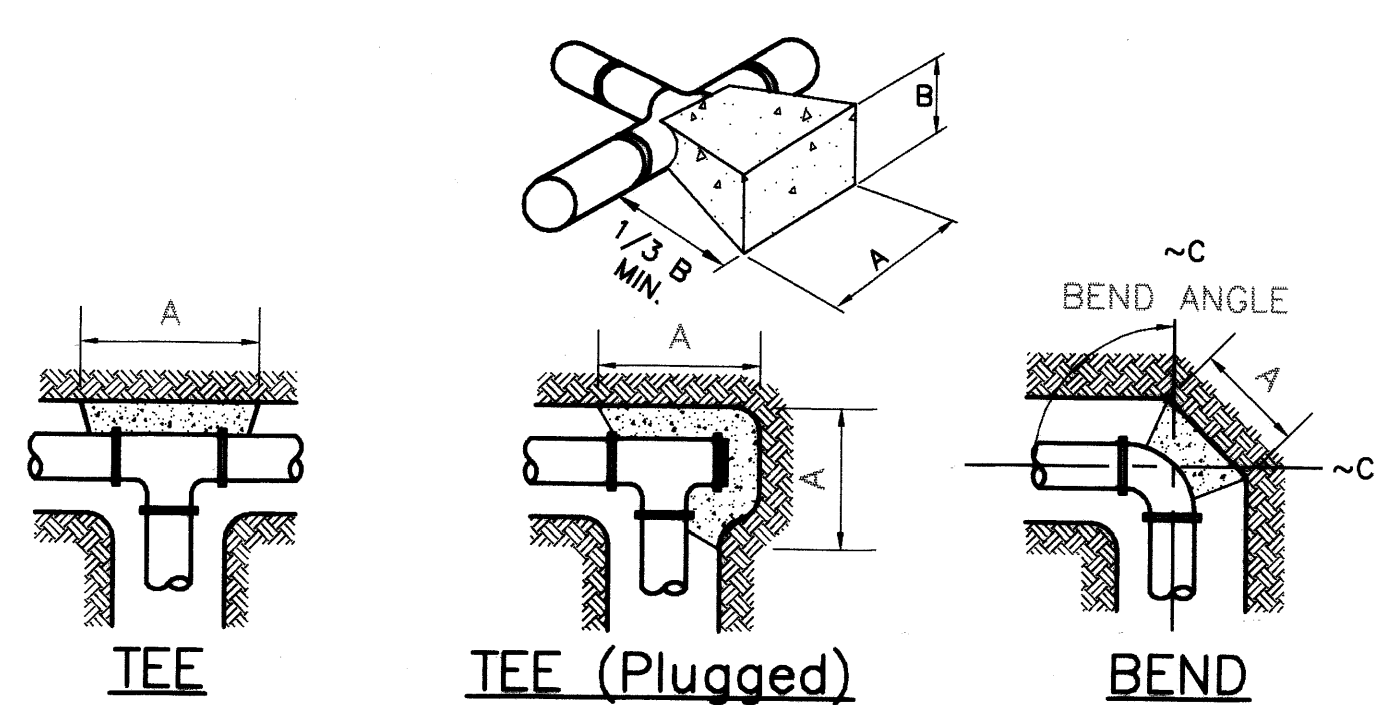
ENGINEER: [Signature] DATE: 1/23/07

CITY OF HOMER SANITARY SEWER PLAN, PROFILE AND DETAILS KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET C2/47

FILE NO. 8239C2-0.DWG

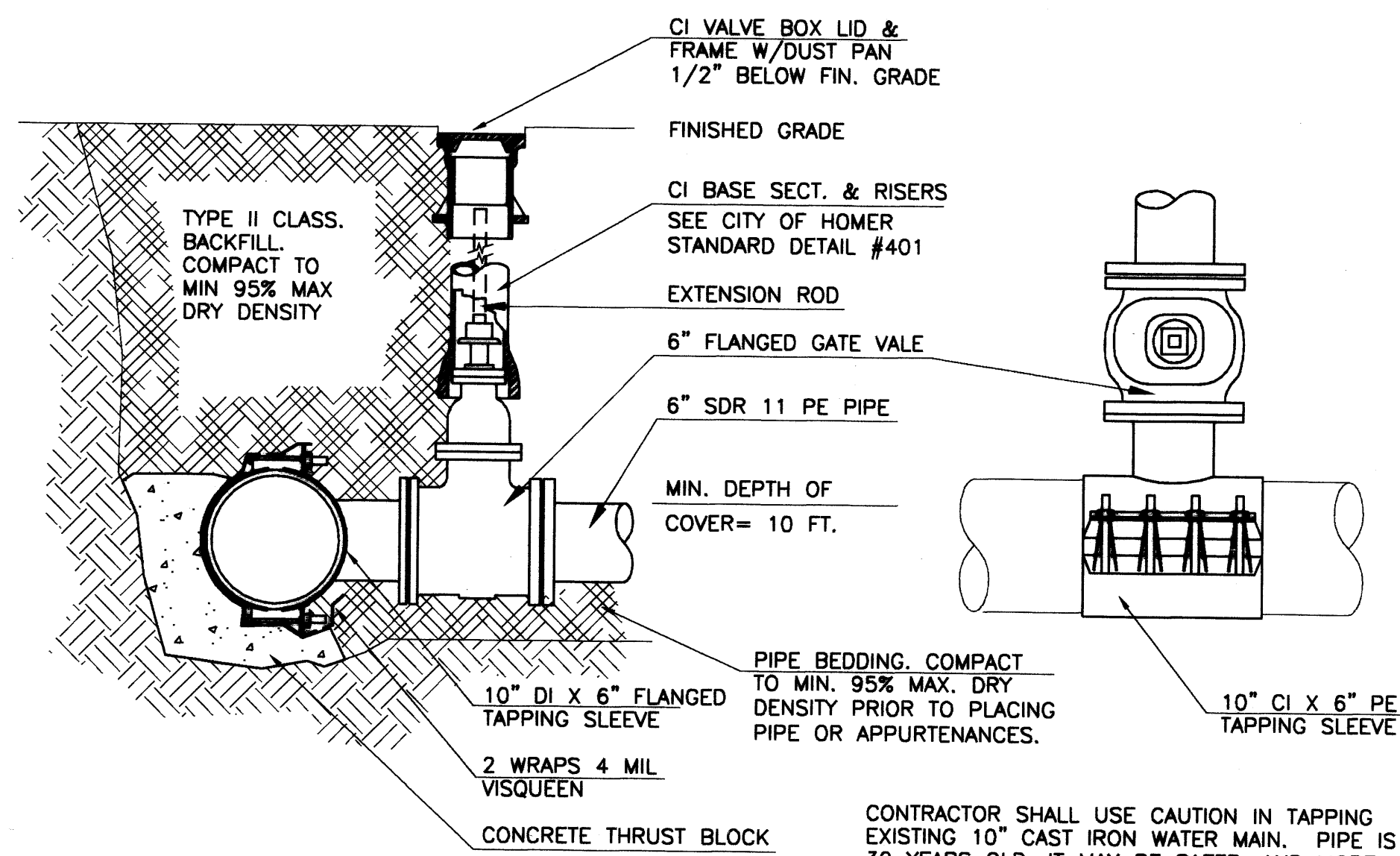




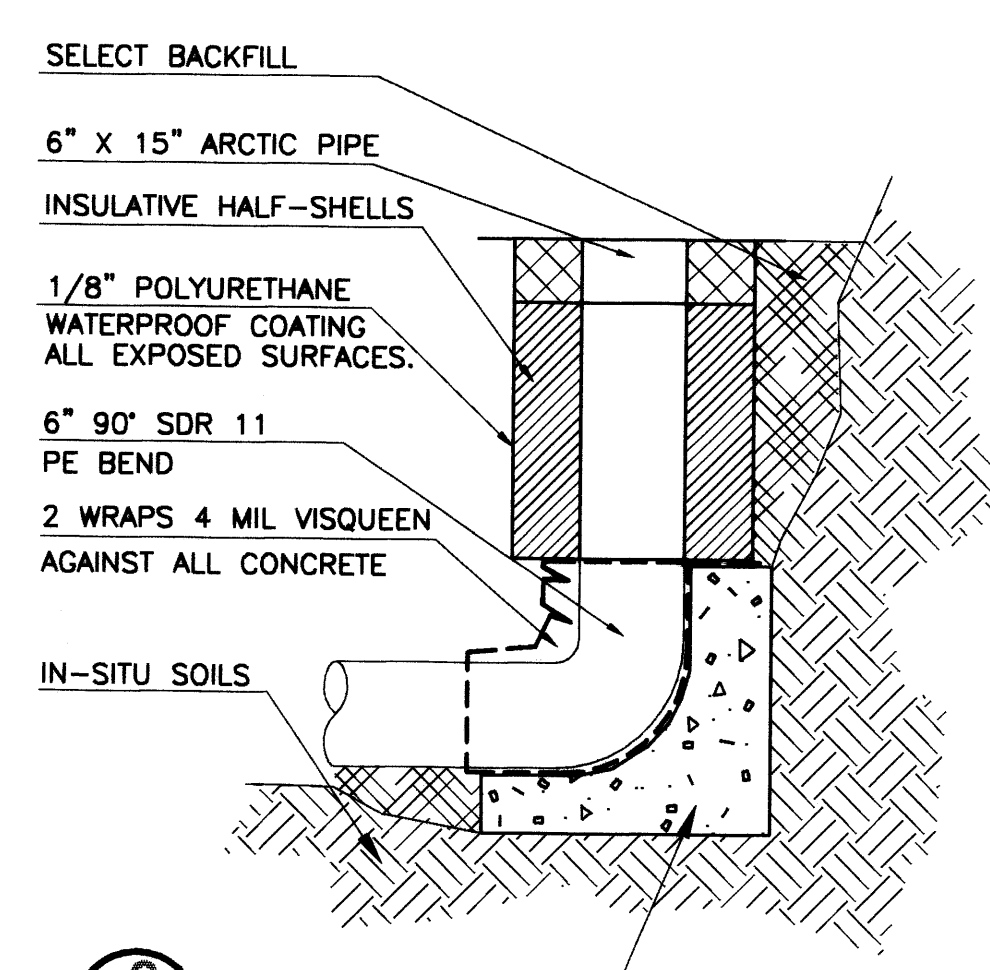
MINIMUM DIMENSIONS FOR THRUST BLOCKING											
FITTING SIZES	TEES & PLUGS		90° BEND		45° BEND & WYES		22 1/2° BEND		11 1/4° BEND		BEND ANGLE
	A	B	A	B	A	B	A	B	A	B	
4" & LESS	1'-7"	1'-2"	1'-9"	1'-8"	1'-8"	1'-8"	0'-10"	1'-7"	0'-5"	1'-7"	0'-5"
6"	1'-9"	1'-4"	1'-9"	1'-8"	1'-8"	1'-8"	0'-10"	1'-7"	0'-5"	1'-7"	0'-5"

NOTES: 1. PLACE THRUST BLOCKS AT ALL PRESSURE LINE ANGLE POINT LOCATIONS.  
2. THIS TABLE IS BASED UPON 150 PSI MAIN PRESSURE AND 2000 PSF SOIL BEARING PRESSURE.

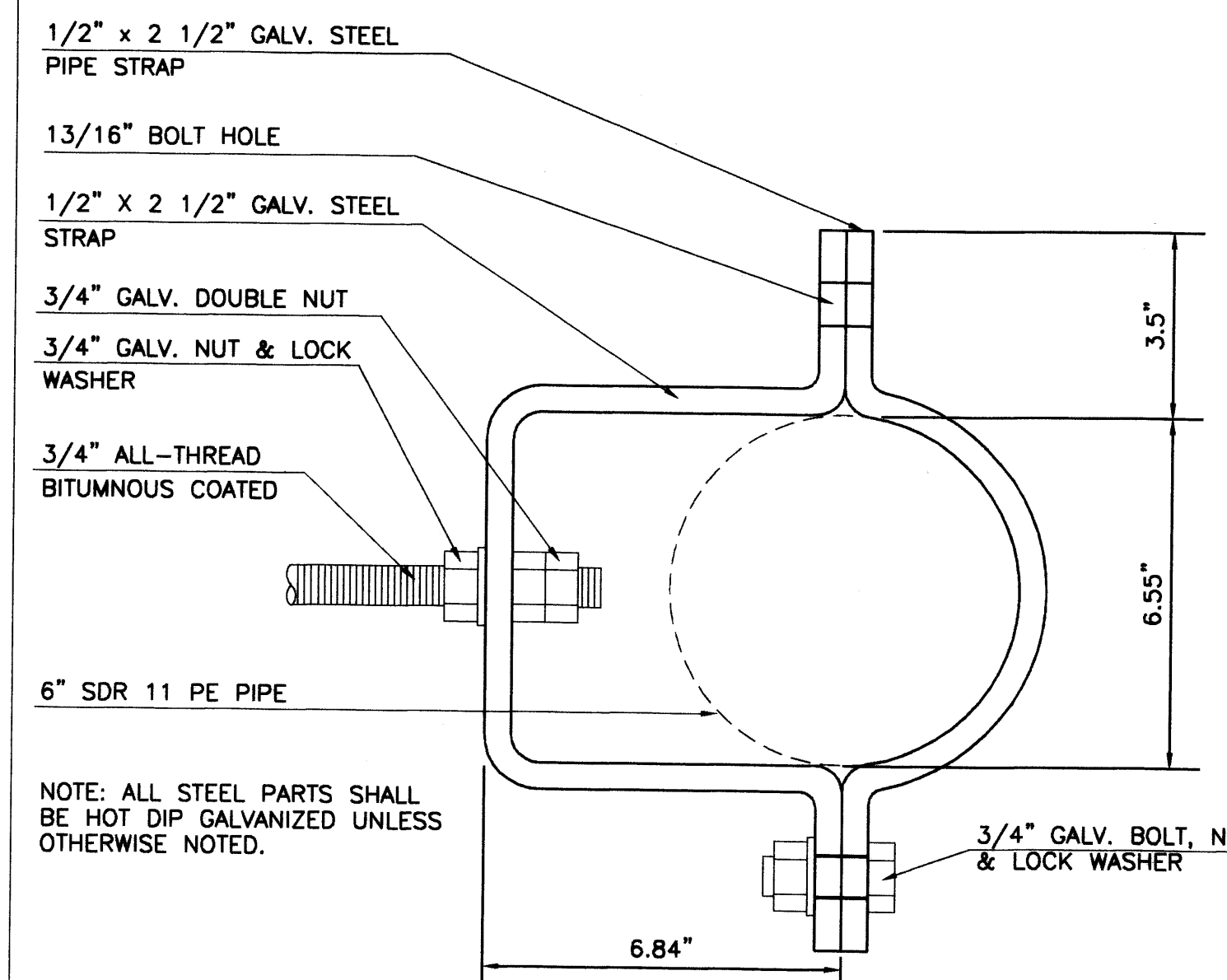
**6** THRUST BLOCK TABLE  
NOT TO SCALE



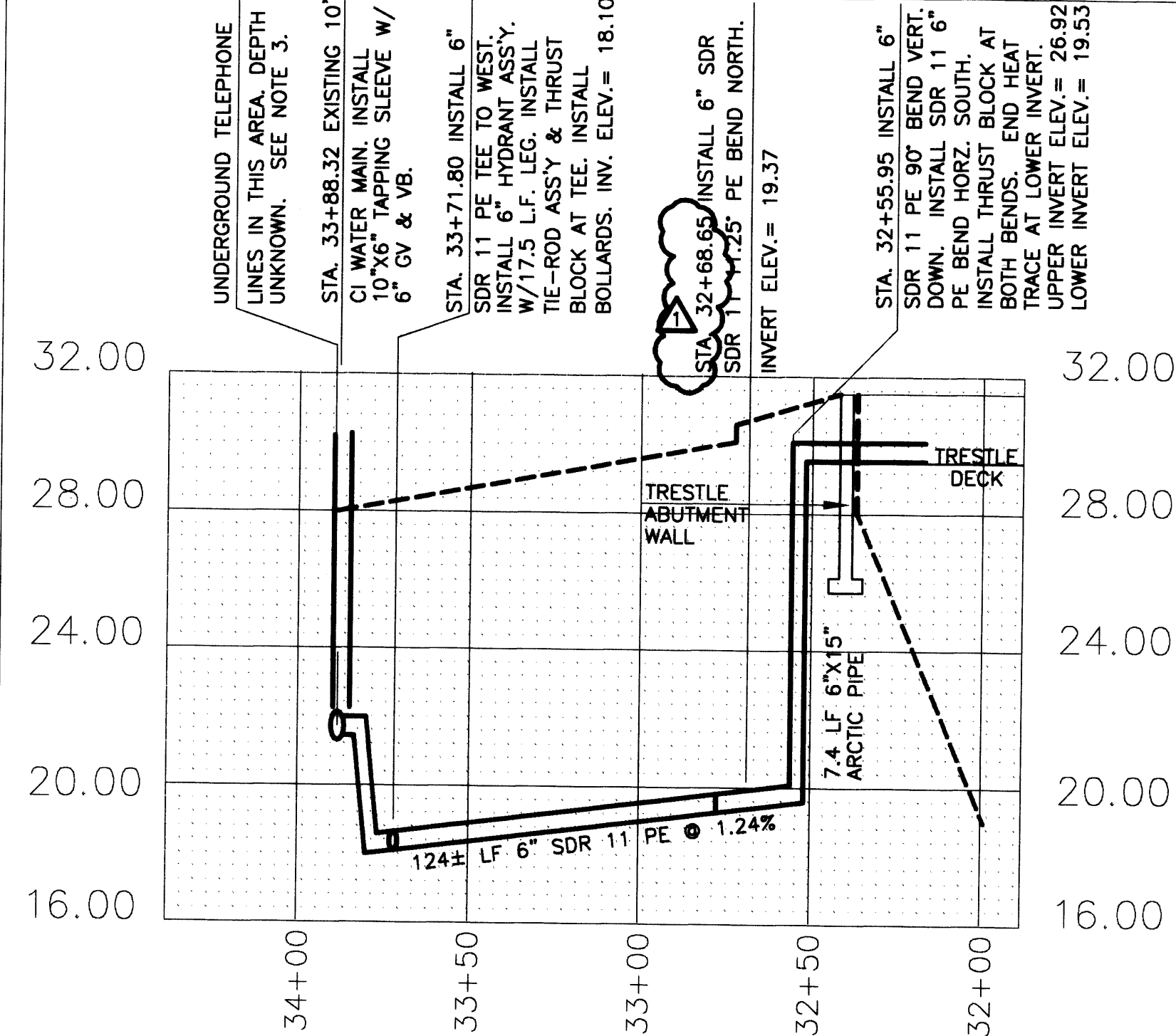
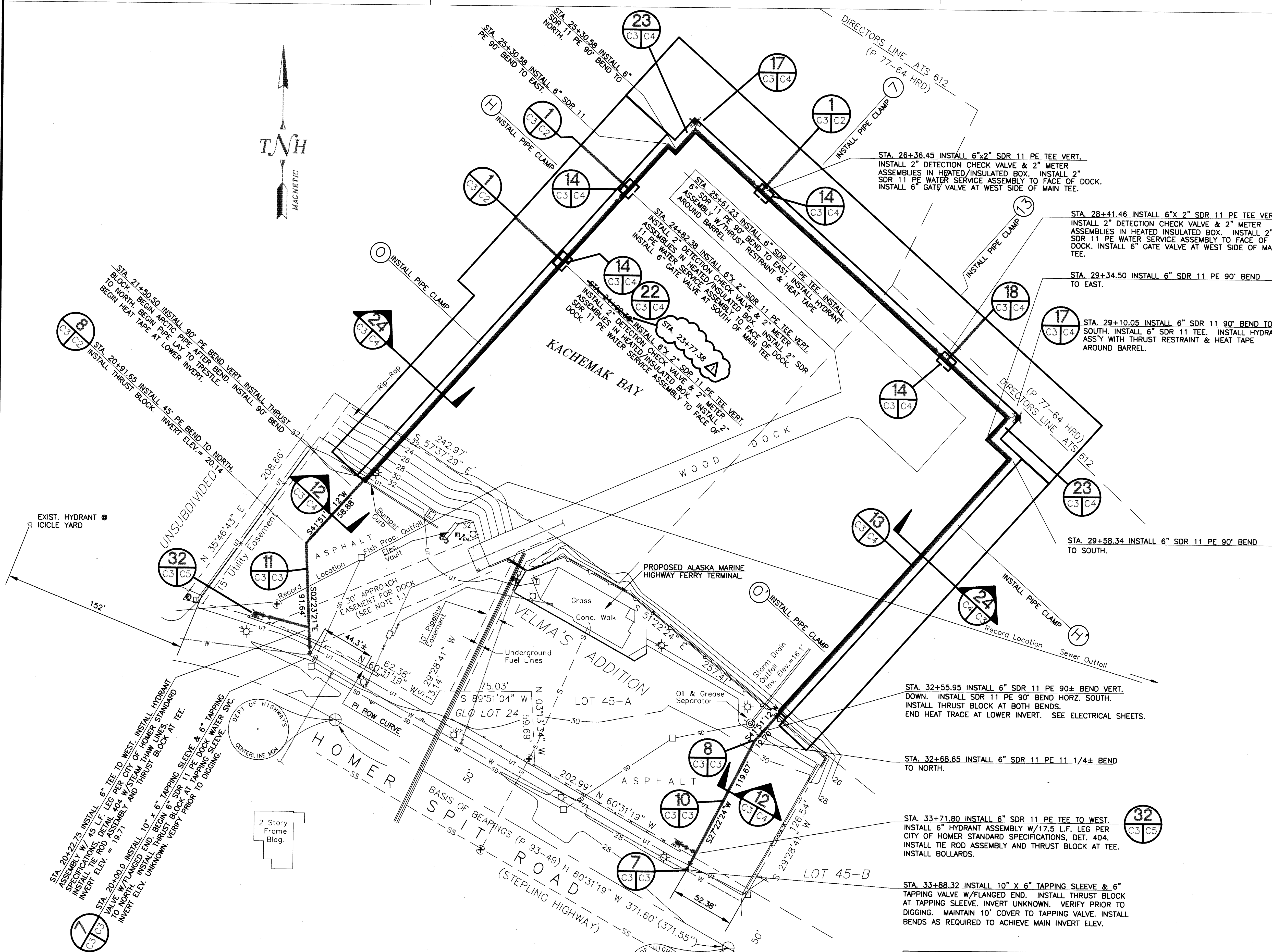
**7** WATER MAIN CONNECTION  
SCALE: 1" = 1'



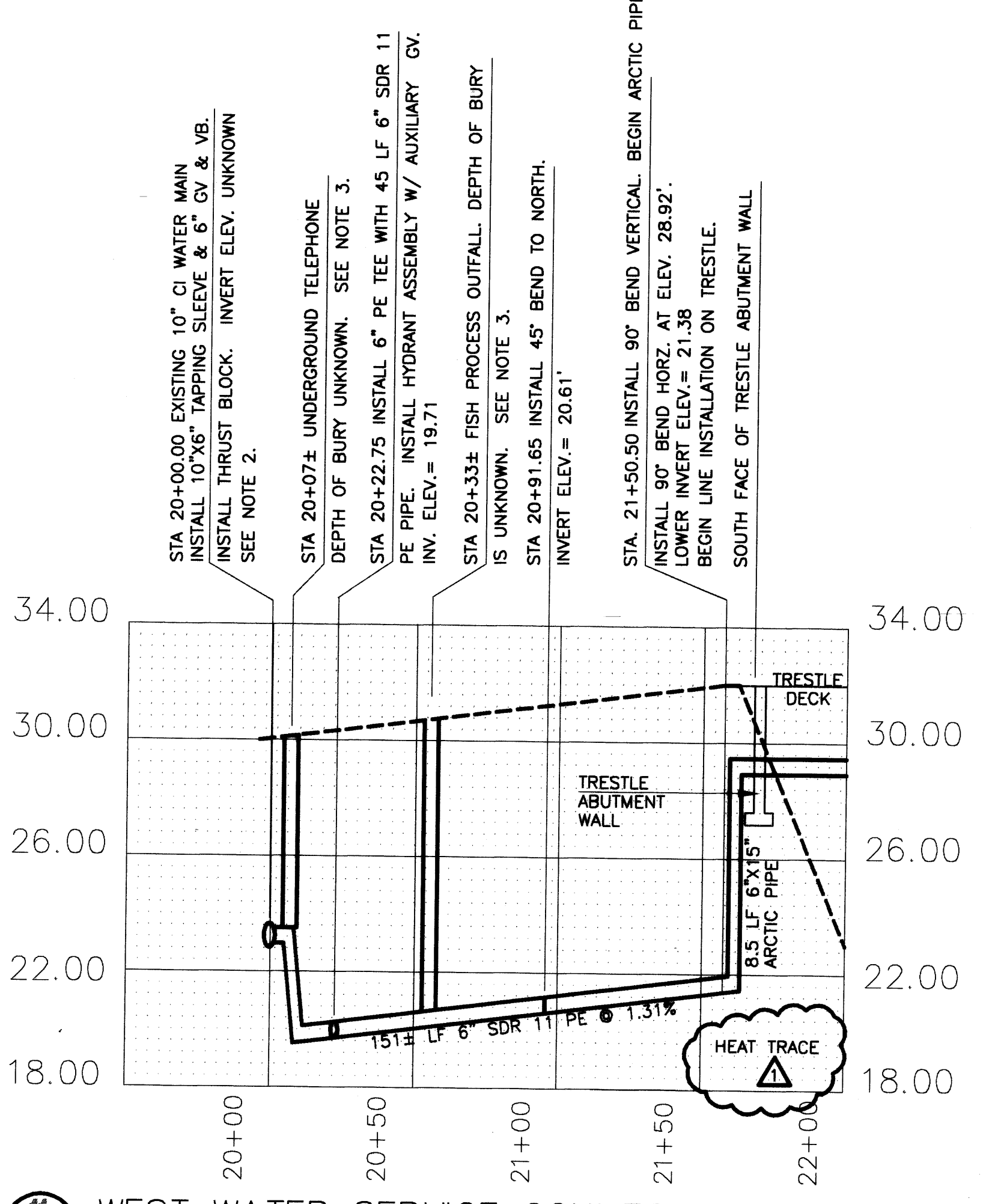
**8** WATER LINE RISER  
SCALE: 1" = 1'



**9** TIE-ROD ANCHOR  
SCALE: 1/4" = 1'

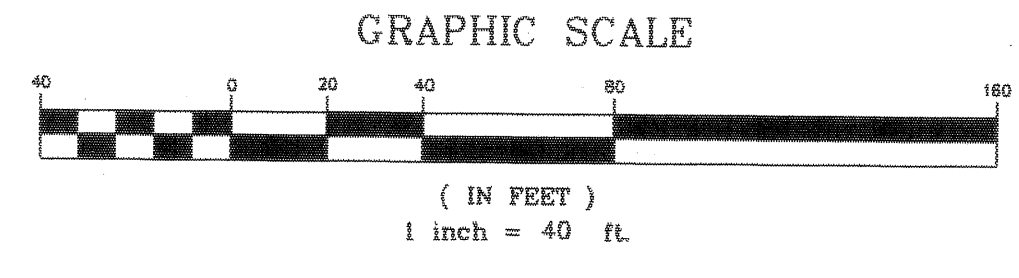


**10** EAST WATER SERVICE CONNECTION  
SCALE: HORIZ. 1" = 40'  
VERT. 1" = 40'



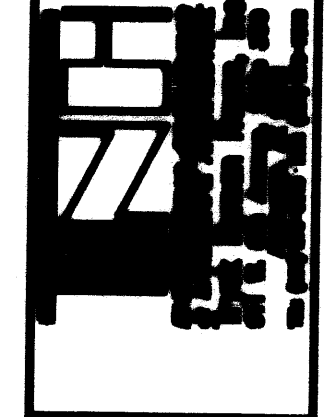
**11** WEST WATER SERVICE CONNECTION  
SCALE: HORIZ. 1" = 40'  
VERT. 1" = 40'

NOTES:  
1. ALL WATER LINE INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF HOMER STANDARD SPECIFICATIONS AS CURRENTLY AMENDED.  
2. PROVIDE MIN 2" DOW HI-40 INSULBOARD OR APPROVED EQUAL AT CROWN OF ALL UNINSULATED WATER LINE WHICH HAS LESS THAN 10 FT. OF COVER. CENTER MIN. 4 FT. WIDTH ON CROWN OF PIPE. PLACE BOT. INSULBOARD 1.39' ABOVE PIPE CROWN.  
3. VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY EXCAVATION.



**RECORD DRAWING**  
CHANGES TO THE DESIGN DRAWINGS SHOWN HERE REFLECT THE ACCURACY OF CONSTRUCTION CHANGES AS SHOWN ON THE CONTRACTOR'S REDLINE DRAWINGS.  
ENGINEER: *[Signature]* DATE: 1/23/04

REV.	DATE	BY	AS-BUILT	REVISION
1	02/03	MEH	AS-BUILT	REVISION

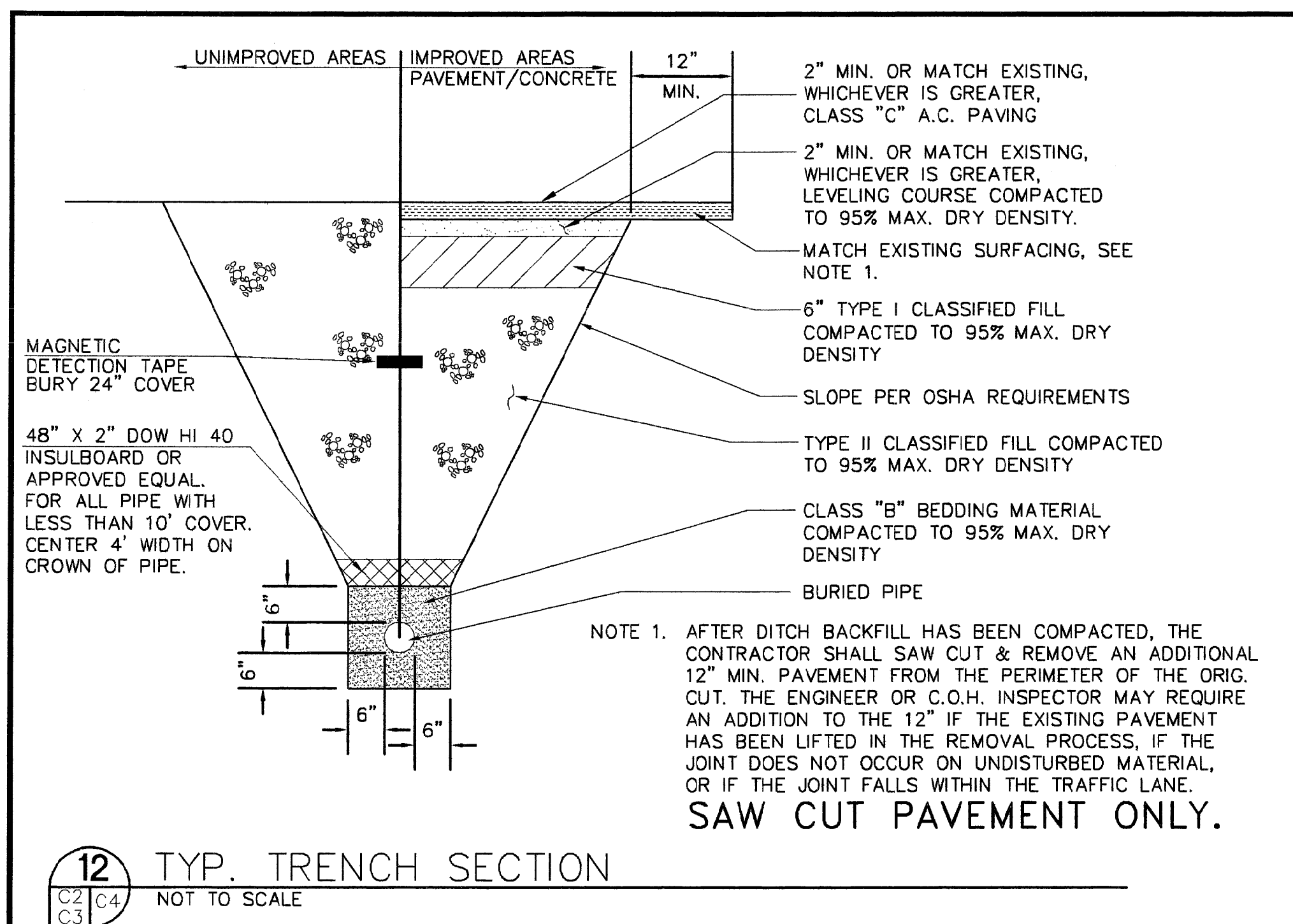


CITY OF HOMER  
WATER PLAN,  
PROFILE AND DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

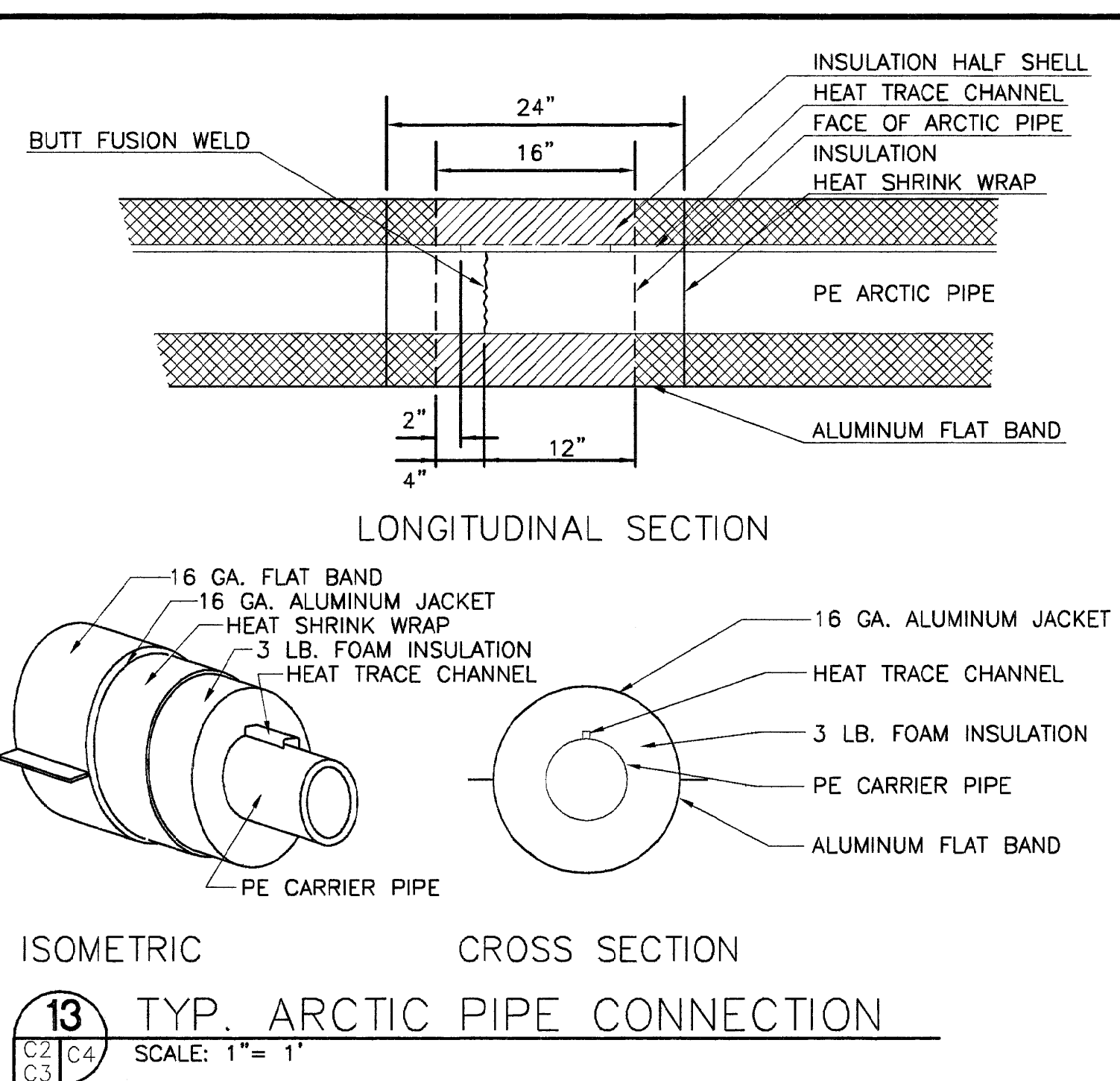
SHEET  
C3/47

FILE NO. 8239C3-0.DWG

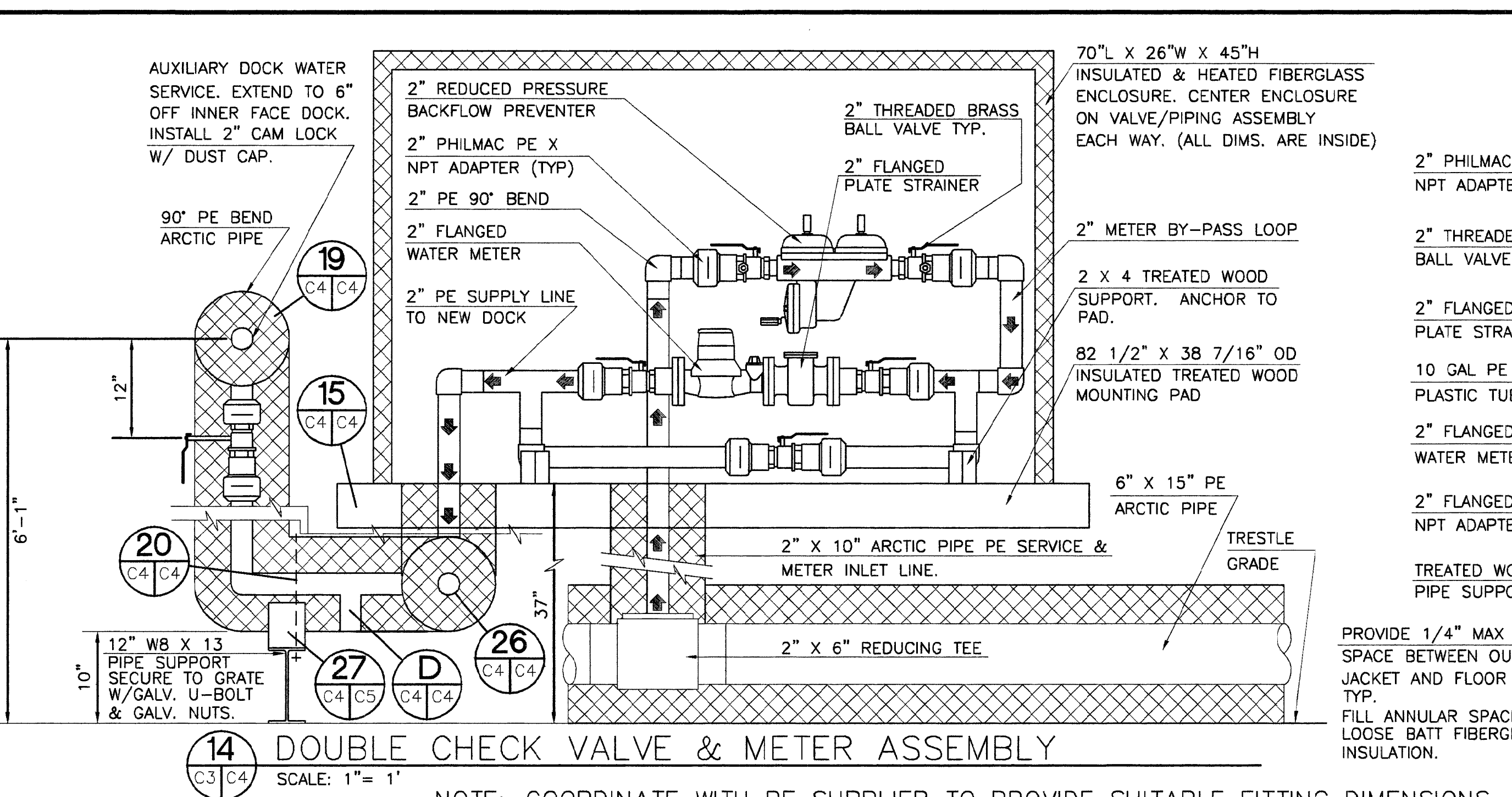




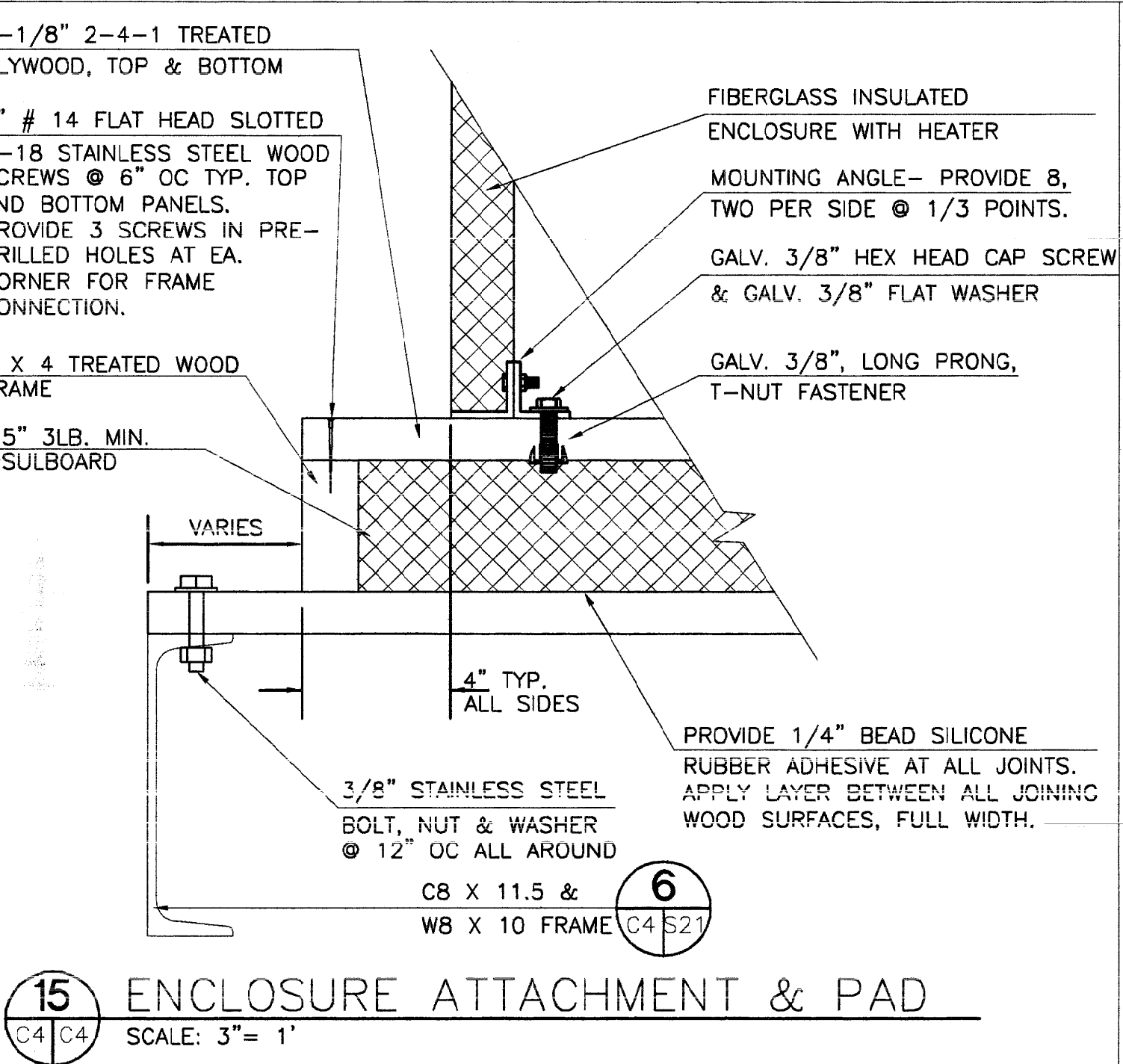
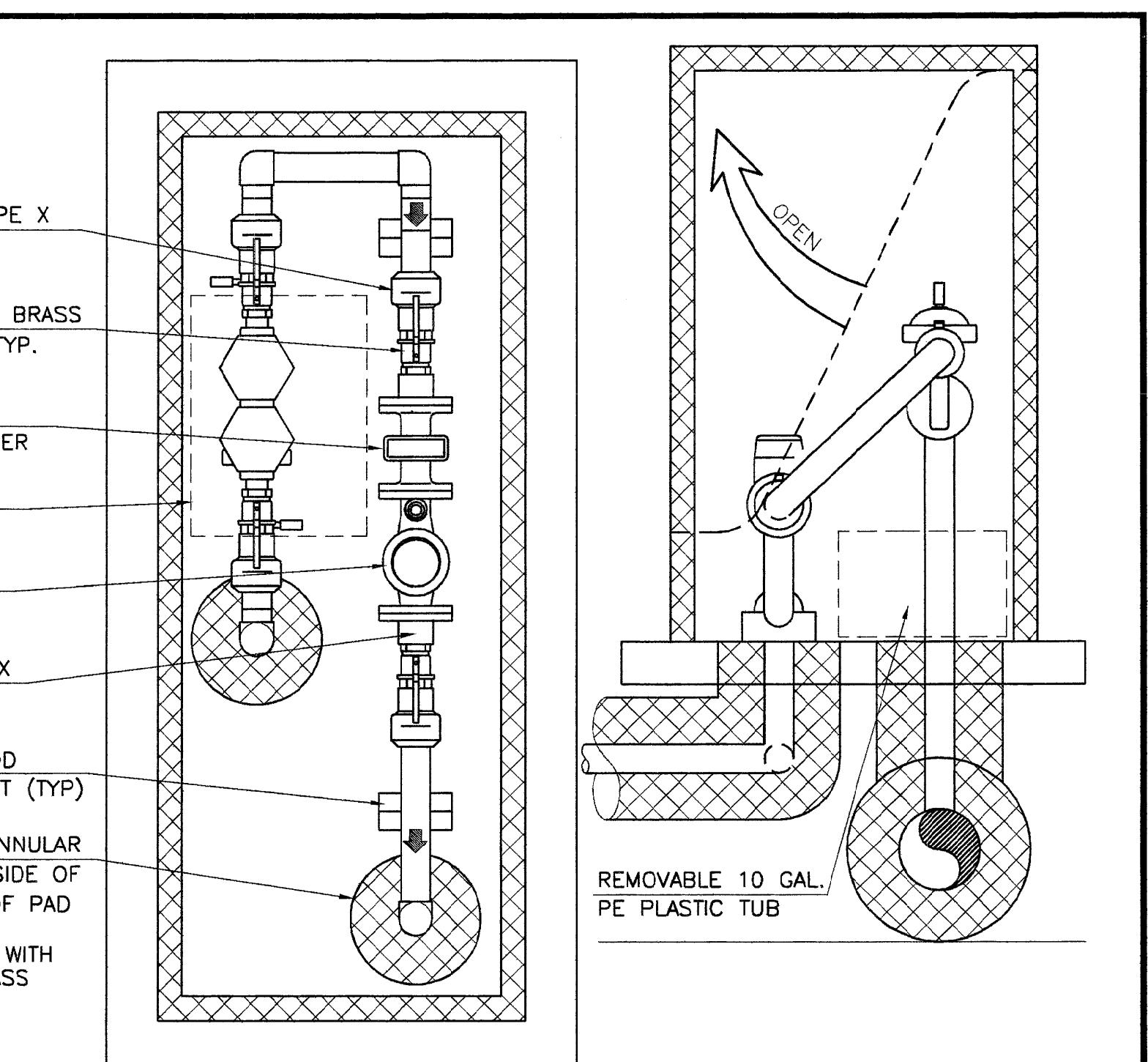
12 TYP. TRENCH SECTION  
SCALE: NOT TO SCALE



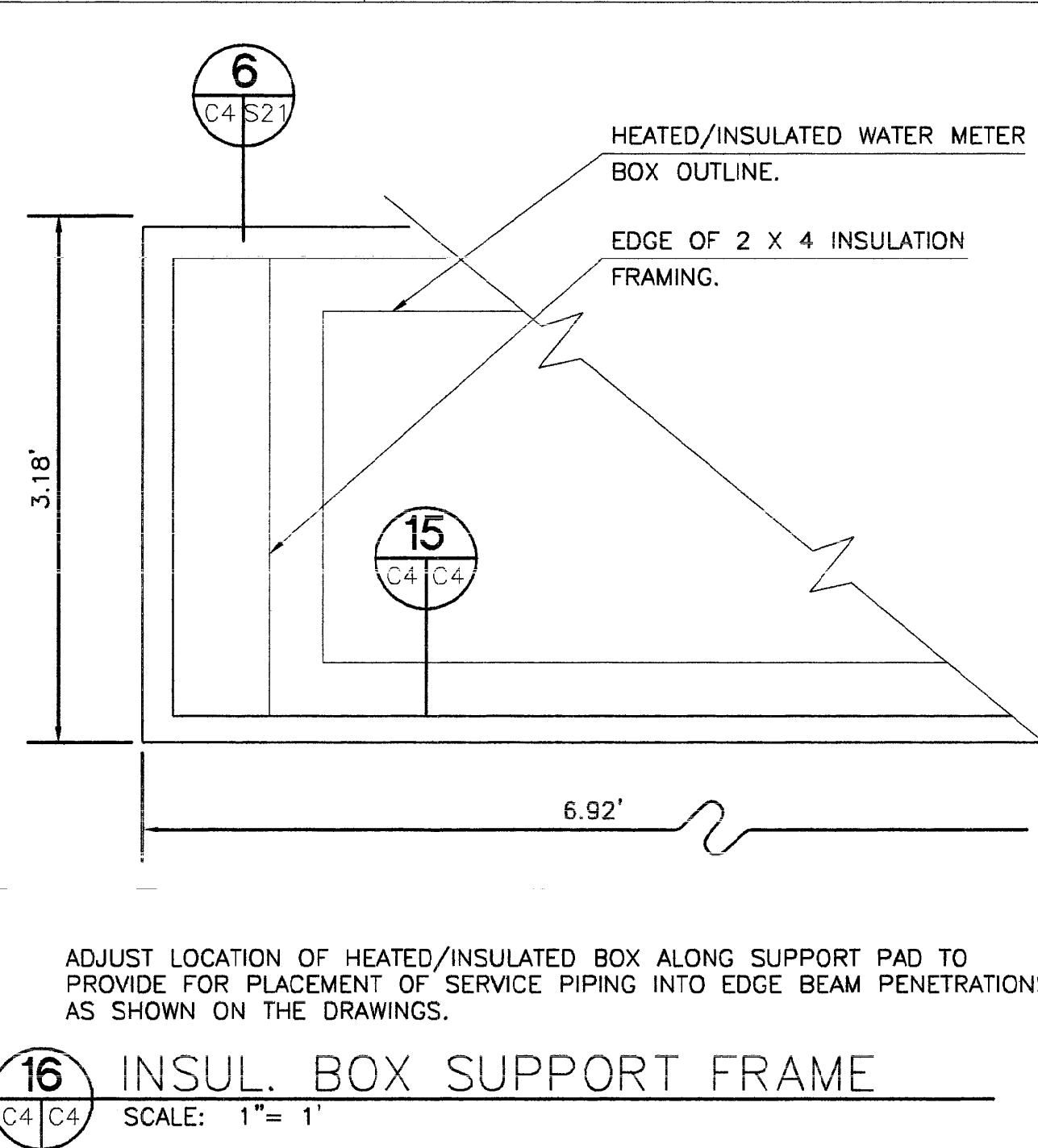
13 TYP. ARCTIC PIPE CONNECTION  
SCALE: 1" = 1'



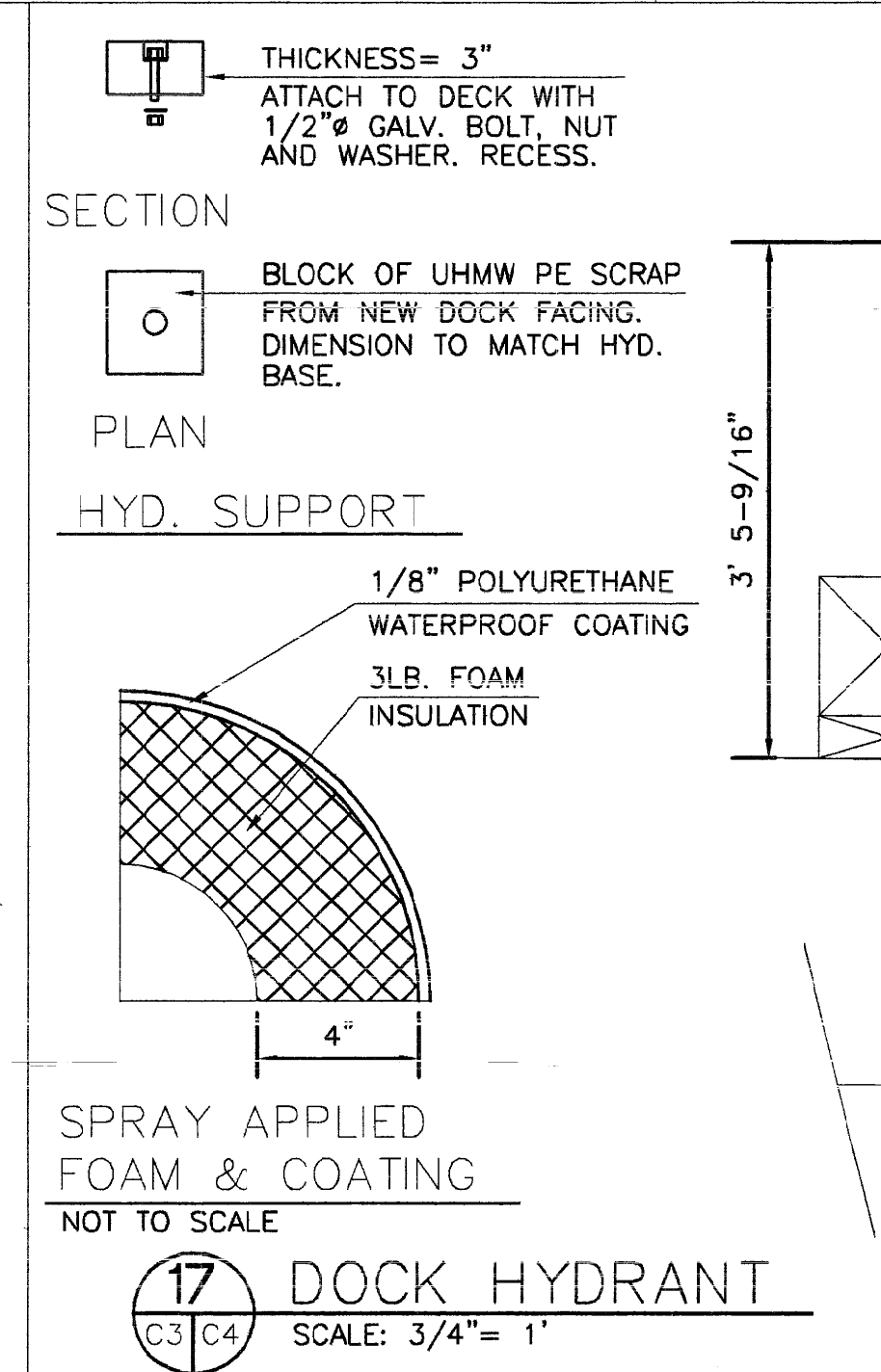
14 DOUBLE CHECK VALVE & METER ASSEMBLY  
SCALE: 1" = 1'



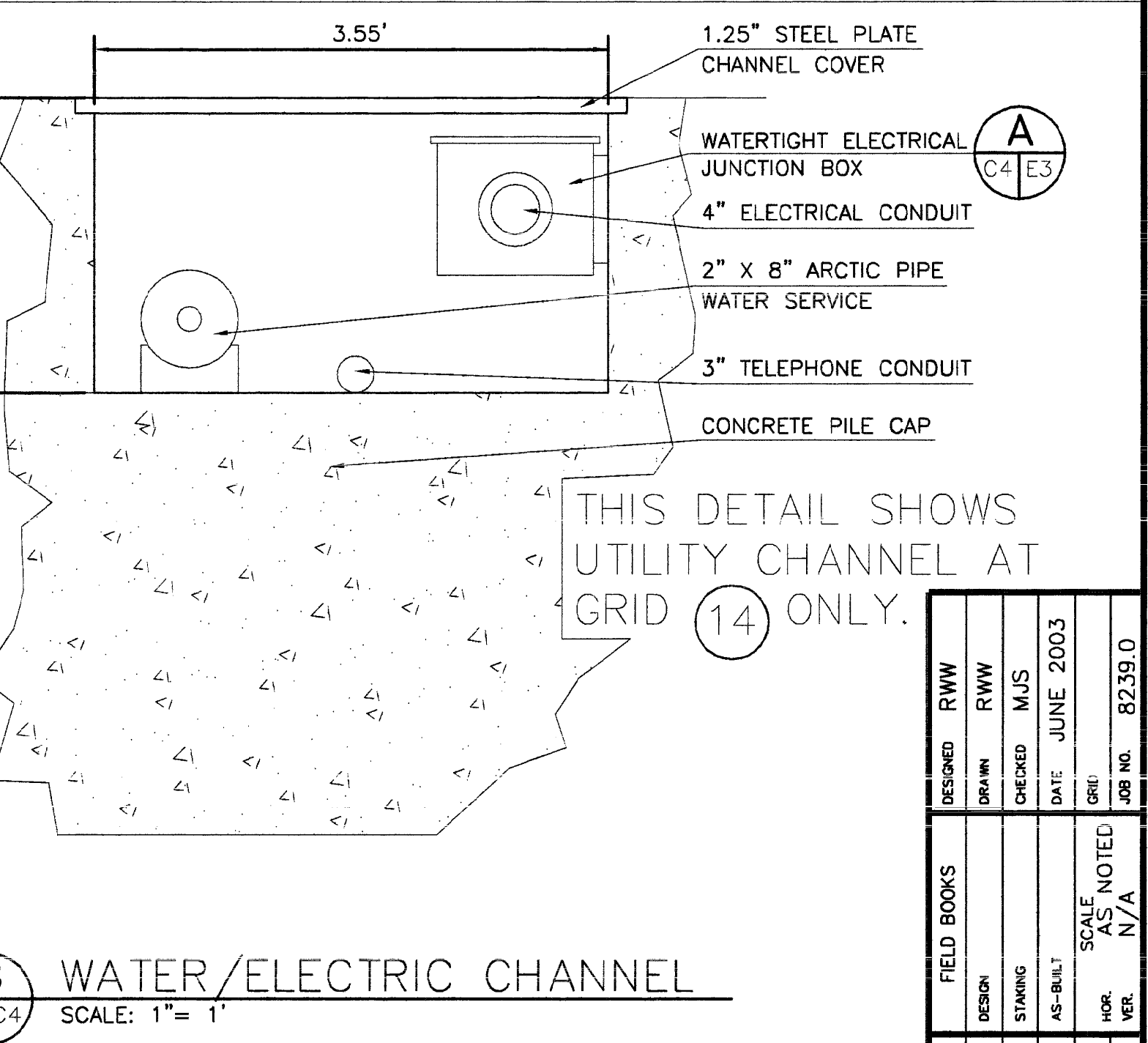
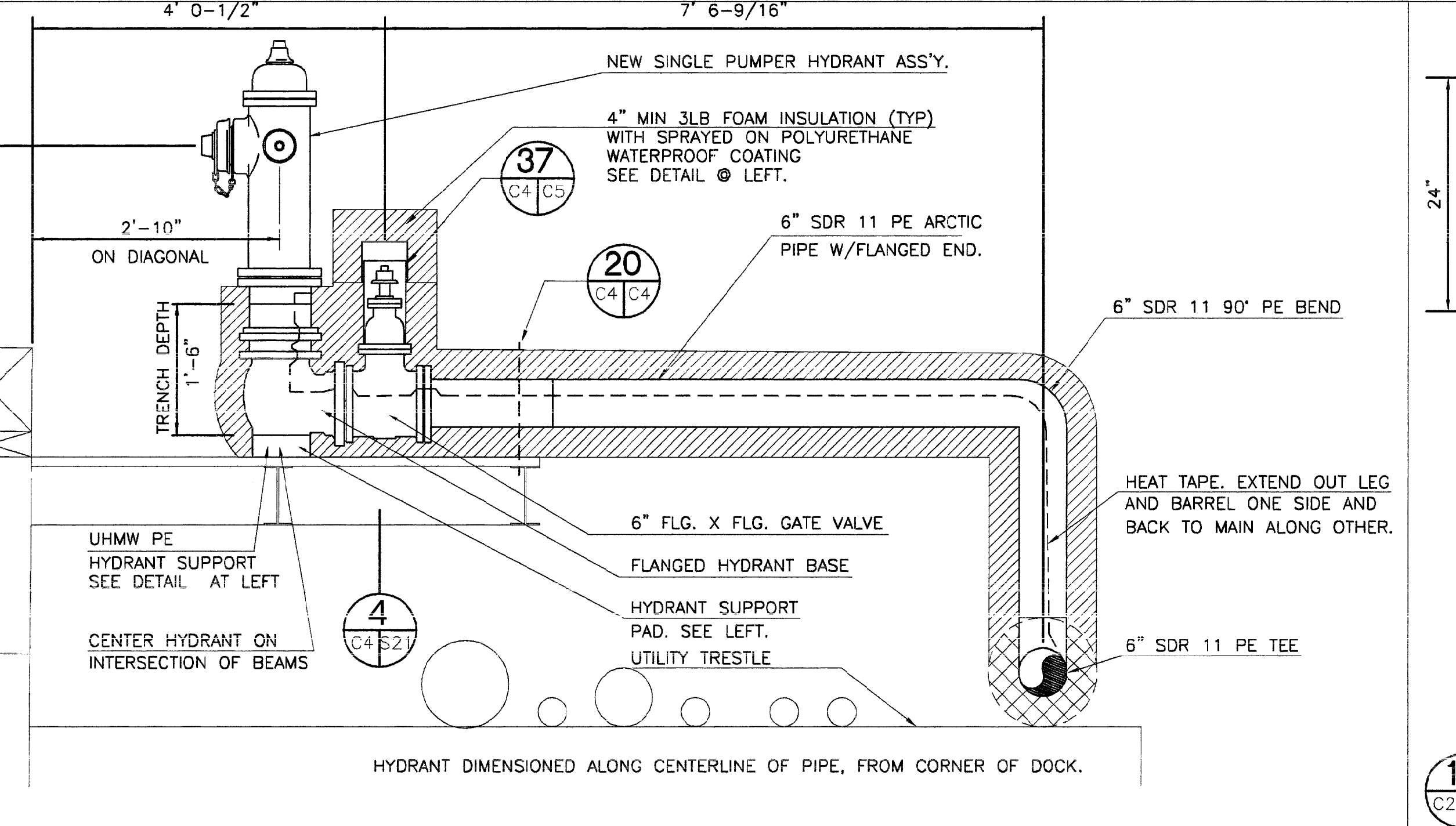
15 ENCLOSURE ATTACHMENT & PAD  
SCALE: 3" = 1'



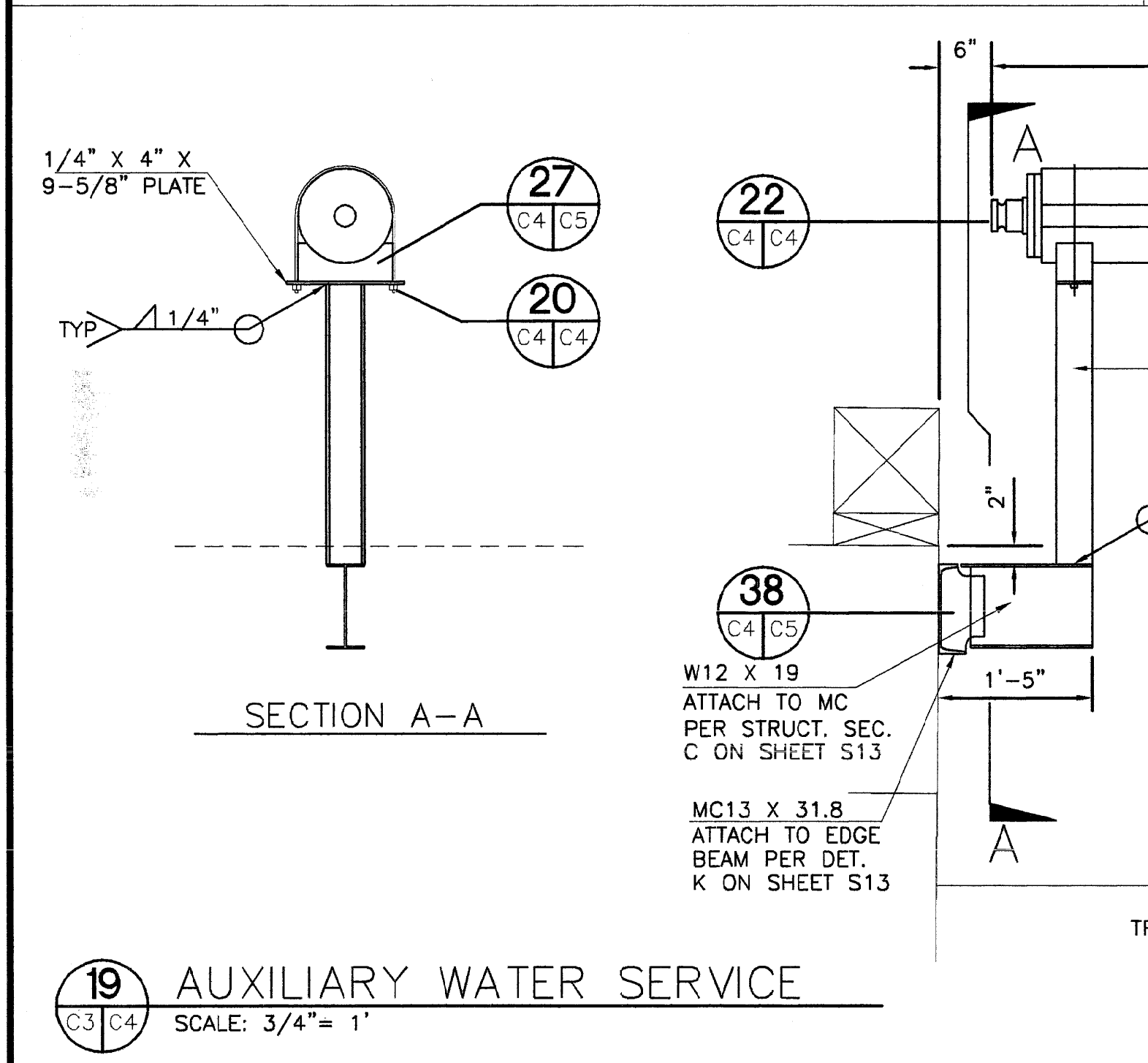
16 INSUL. BOX SUPPORT FRAME  
SCALE: 1" = 1'



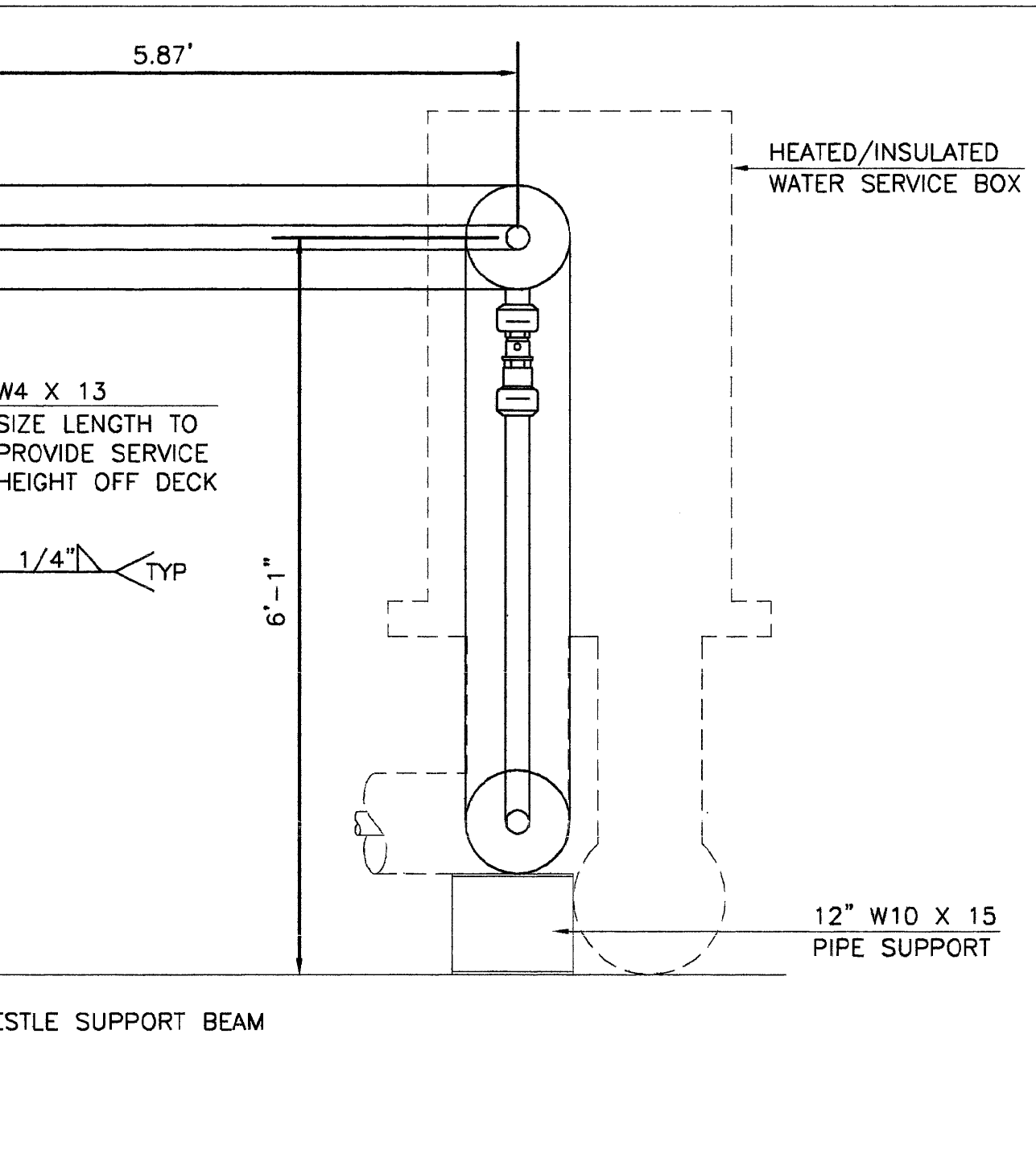
17 DOCK HYDRANT  
SCALE: 3/4" = 1'



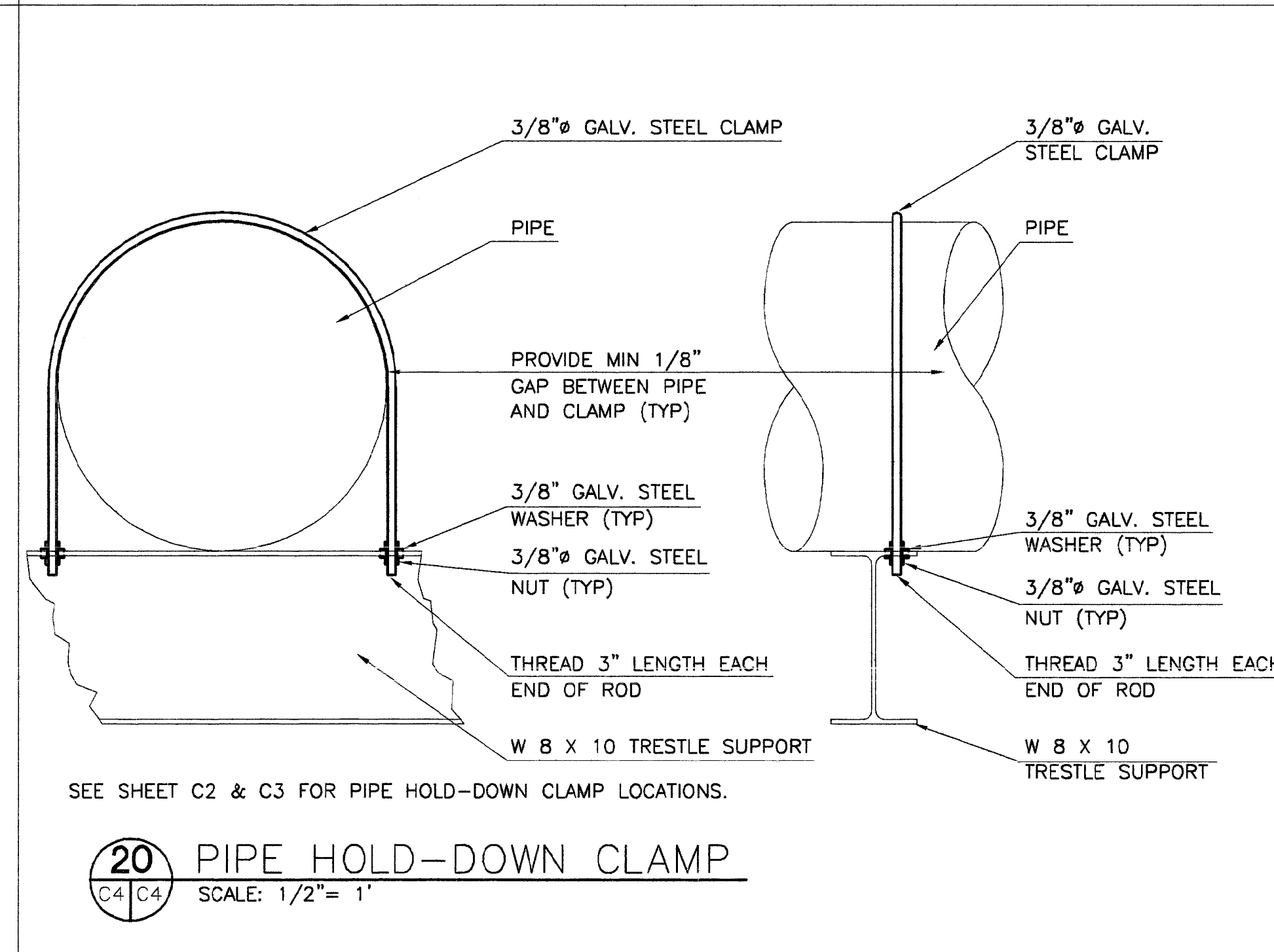
18 WATER/ELECTRIC CHANNEL  
SCALE: 1" = 1'



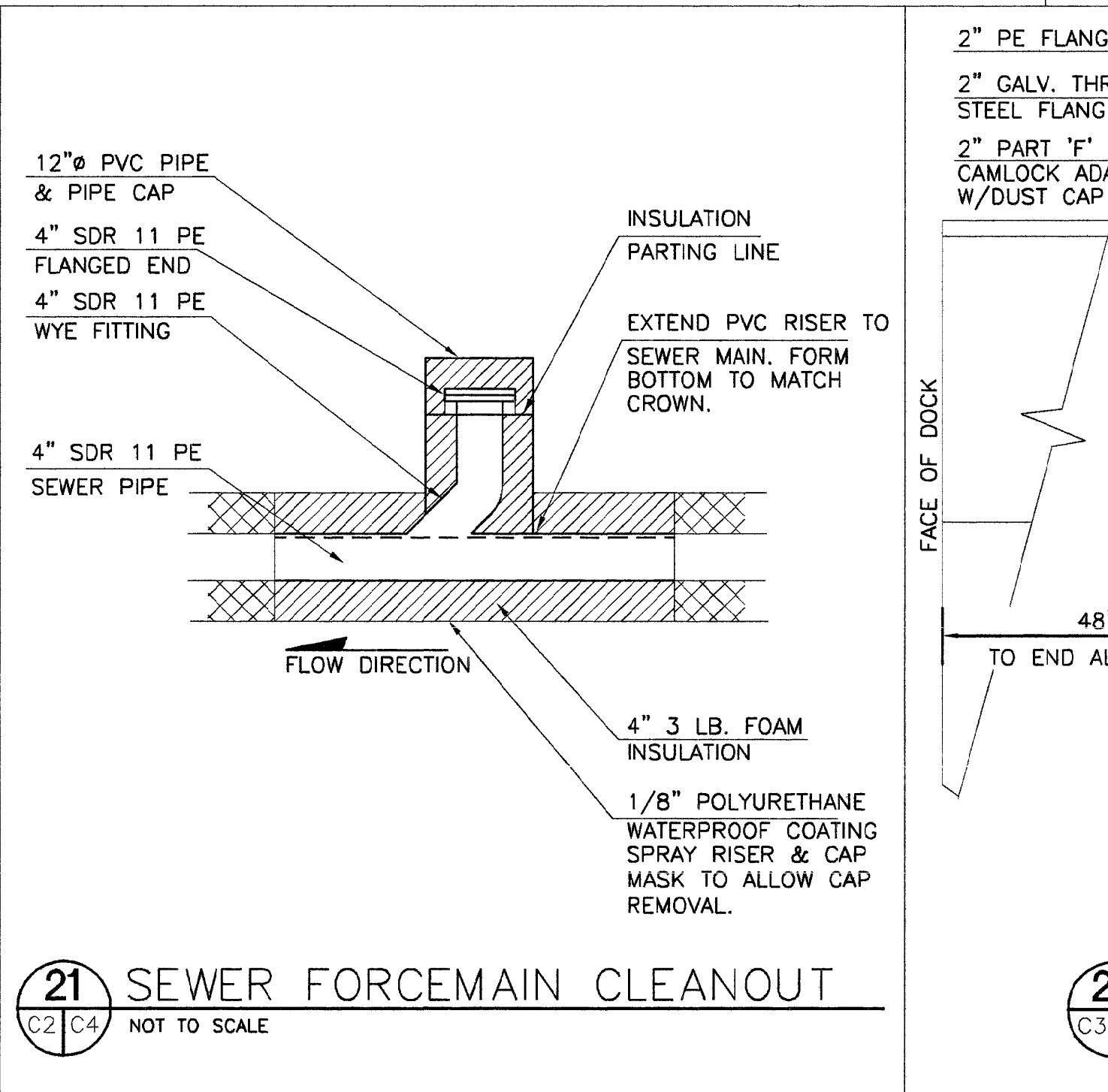
19 AUXILIARY WATER SERVICE  
SCALE: 3/4" = 1'



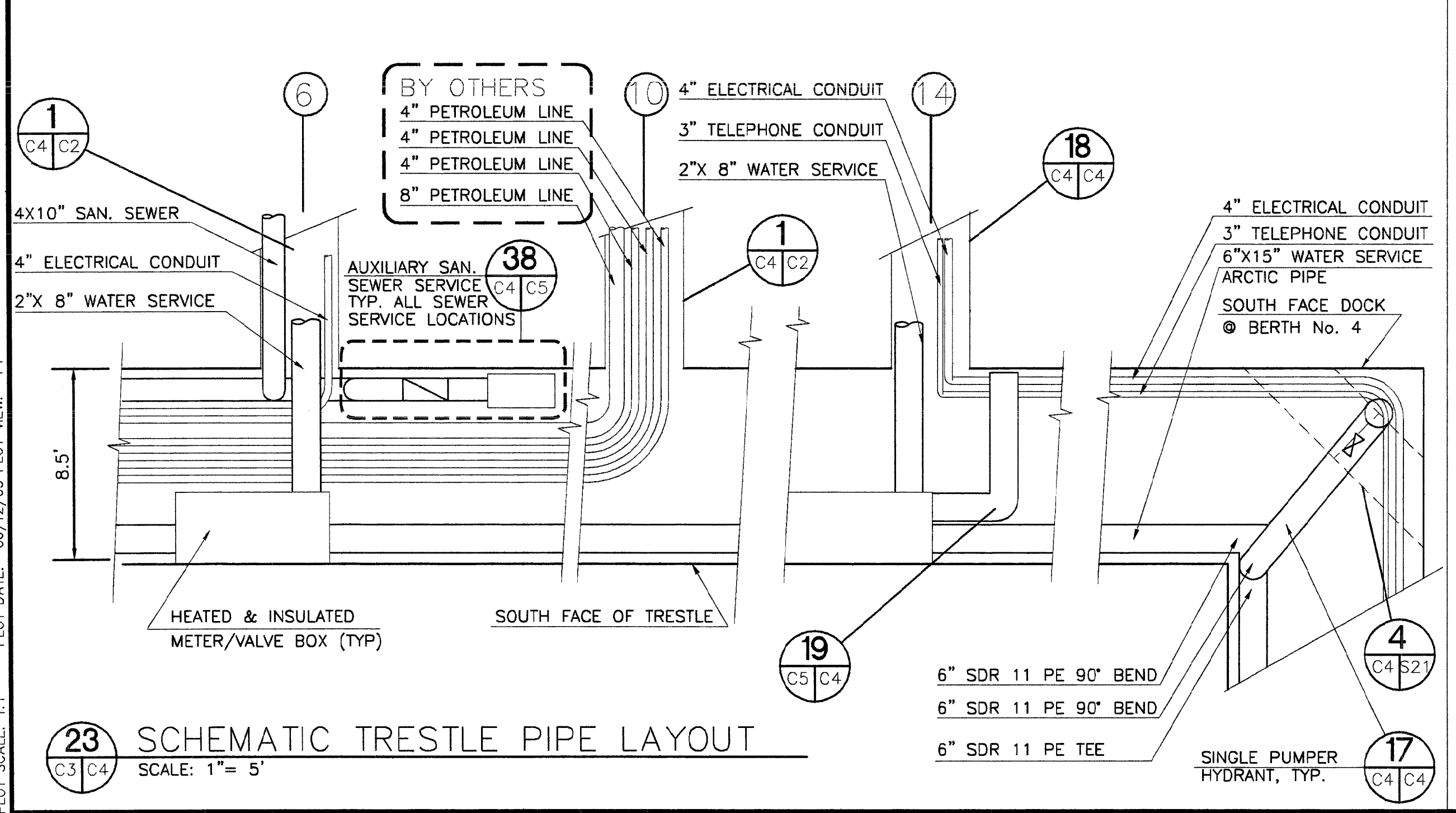
20 PIPE HOLD-DOWN CLAMP  
SCALE: 1/2" = 1'



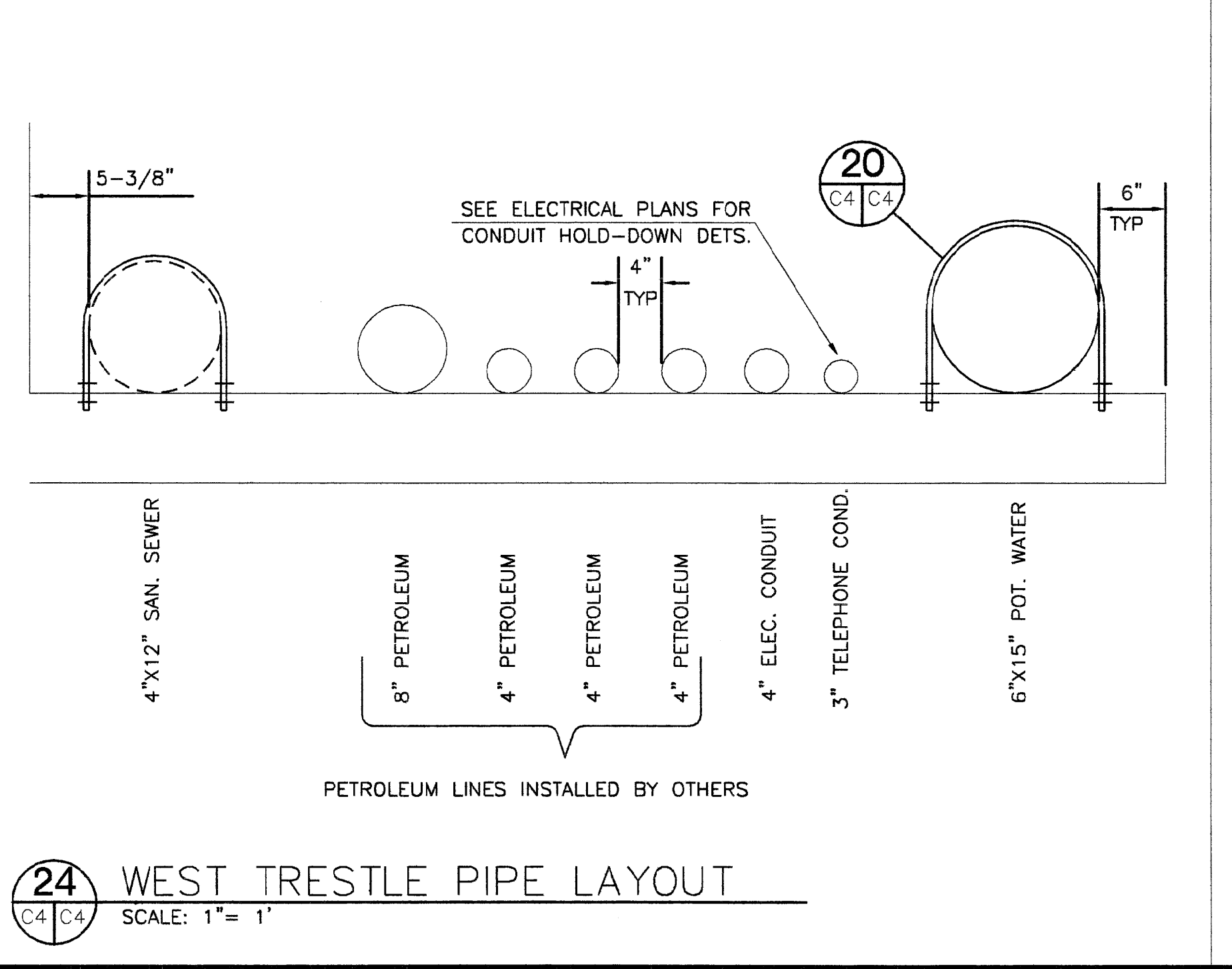
21 SEWER FORCEMAIN CLEANOUT  
SCALE: NOT TO SCALE



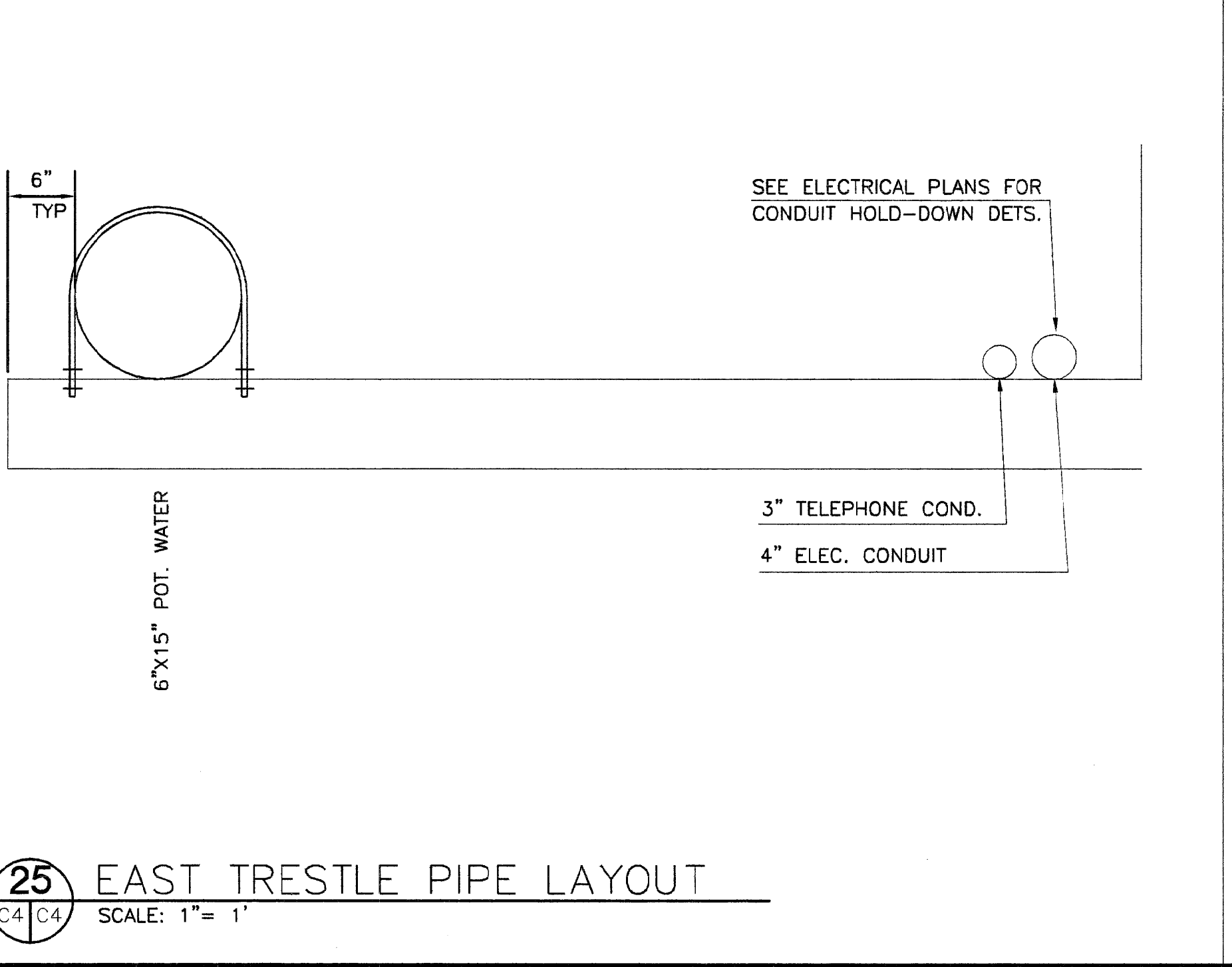
22 WATER SERVICE CONNECTION  
SCALE: 1" = 1'



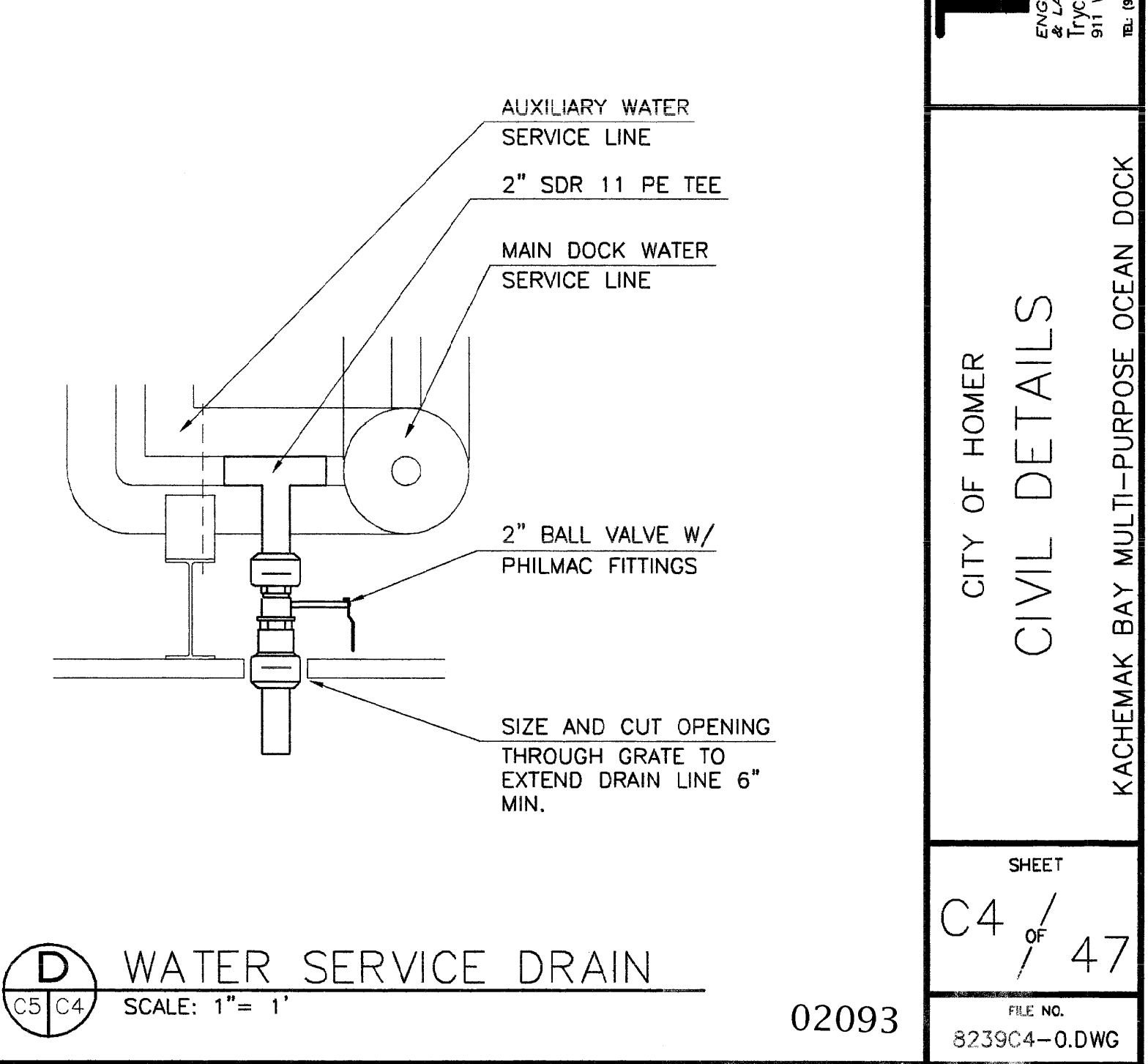
23 SCHEMATIC TRESTLE PIPE LAYOUT  
SCALE: 1" = 5'



24 WEST TRESTLE PIPE LAYOUT  
SCALE: 1" = 1'



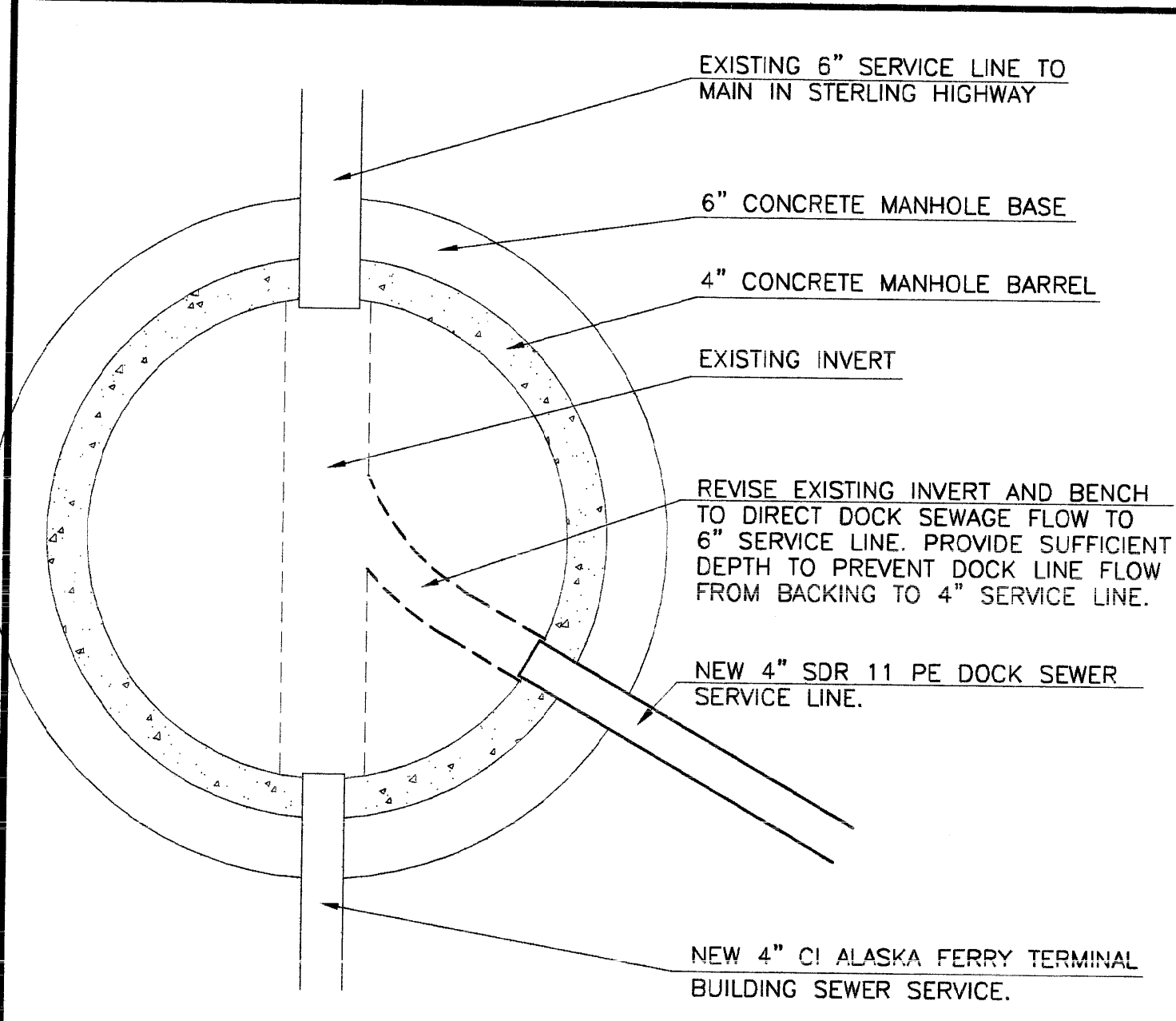
25 EAST TRESTLE PIPE LAYOUT  
SCALE: 1" = 1'



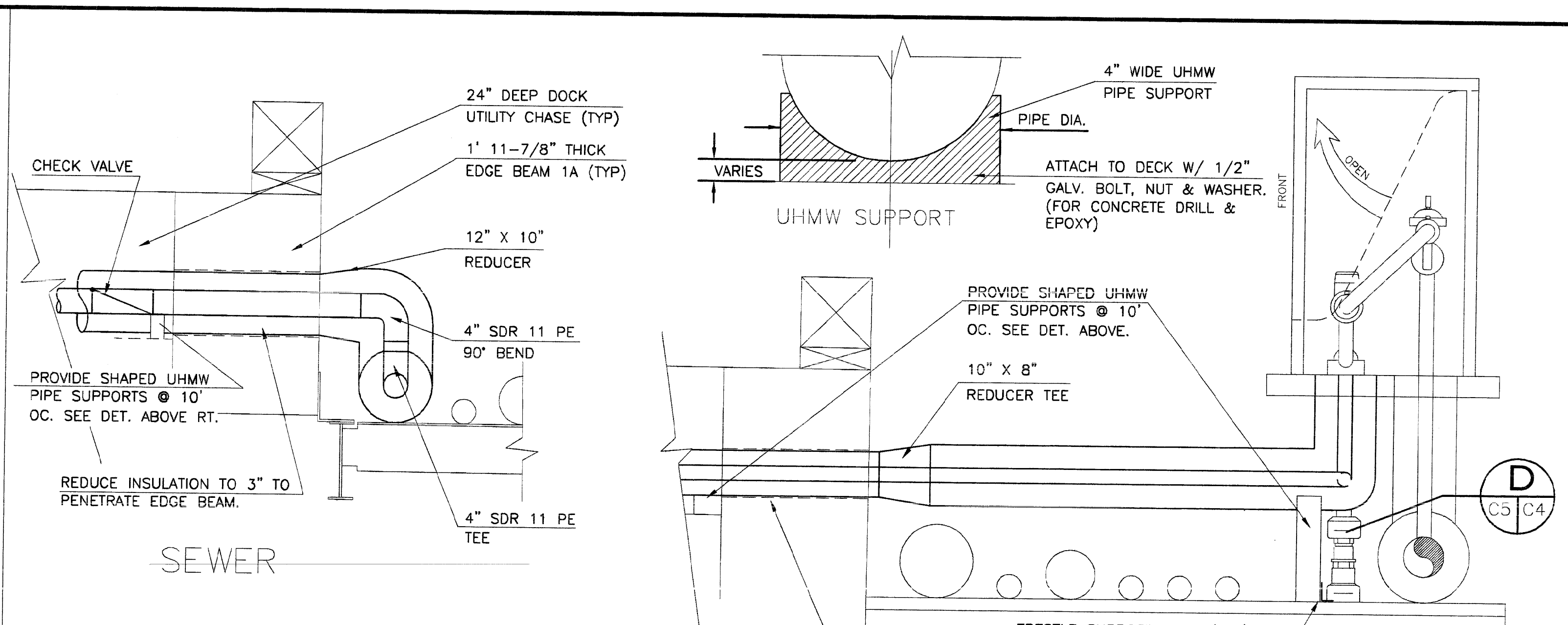
D WATER SERVICE DRAIN  
SCALE: 1" = 1'

REV.	DATE	BY	CHK.	APP.	DESCRIPTION
1	02/03	WEH	BY	AS-BUILT	AS-BUILT
2	06/22/03	SOJ	WEH	WEH	REVISED
3	06/22/03	SOJ	WEH	WEH	REVISED
4	06/22/03	SOJ	WEH	WEH	REVISED
5	06/22/03	SOJ	WEH	WEH	REVISED
6	06/22/03	SOJ	WEH	WEH	REVISED
7	06/22/03	SOJ	WEH	WEH	REVISED
8	06/22/03	SOJ	WEH	WEH	REVISED
9	06/22/03	SOJ	WEH	WEH	REVISED
10	06/22/03	SOJ	WEH	WEH	REVISED
11	06/22/03	SOJ	WEH	WEH	REVISED
12	06/22/03	SOJ	WEH	WEH	REVISED
13	06/22/03	SOJ	WEH	WEH	REVISED
14	06/22/03	SOJ	WEH	WEH	REVISED
15	06/22/03	SOJ	WEH	WEH	REVISED
16	06/22/03	SOJ	WEH	WEH	REVISED
17	06/22/03	SOJ	WEH	WEH	REVISED
18	06/22/03	SOJ	WEH	WEH	REVISED
19	06/22/03	SOJ	WEH	WEH	REVISED
20	06/22/03	SOJ	WEH	WEH	REVISED
21	06/22/03	SOJ	WEH	WEH	REVISED
22	06/22/03	SOJ	WEH	WEH	REVISED
23	06/22/03	SOJ	WEH	WEH	REVISED
24	06/22/03	SOJ	WEH	WEH	REVISED
25	06/22/03	SOJ	WEH	WEH	REVISED
26	06/22/03	SOJ	WEH	WEH	REVISED
27	06/22/03	SOJ	WEH	WEH	REVISED
28	06/22/03	SOJ	WEH	WEH	REVISED
29	06/22/03	SOJ	WEH	WEH	REVISED
30	06/22/03	SOJ	WEH	WEH	REVISED
31	06/22/03	SOJ	WEH	WEH	REVISED
32	06/22/03	SOJ	WEH	WEH	REVISED
33	06/22/03	SOJ	WEH	WEH	REVISED
34	06/22/03	SOJ	WEH	WEH	REVISED
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36	06/22/03	SOJ	WEH	WEH	REVISED
37	06/22/03	SOJ	WEH	WEH	REVISED
38	06/22/03	SOJ	WEH	WEH	REVISED
39	06/22/03	SOJ	WEH	WEH	REVISED
40	06/22/03	SOJ	WEH	WEH	REVISED
41	06/22/03	SOJ	WEH	WEH	REVISED
42	06/22/03	SOJ	WEH	WEH	REVISED
43	06/22/03	SOJ	WEH	WEH	REVISED
44	06/22/03	SOJ	WEH	WEH	REVISED
45	06/22/03	SOJ	WEH	WEH	REVISED
46	06/22/03	SOJ	WEH	WEH	REVISED
47	06/22/03	SOJ	WEH	WEH	REVISED
48	06/22/03	SOJ	WEH	WEH	REVISED
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50	06/22/03	SOJ	WEH	WEH	REVISED

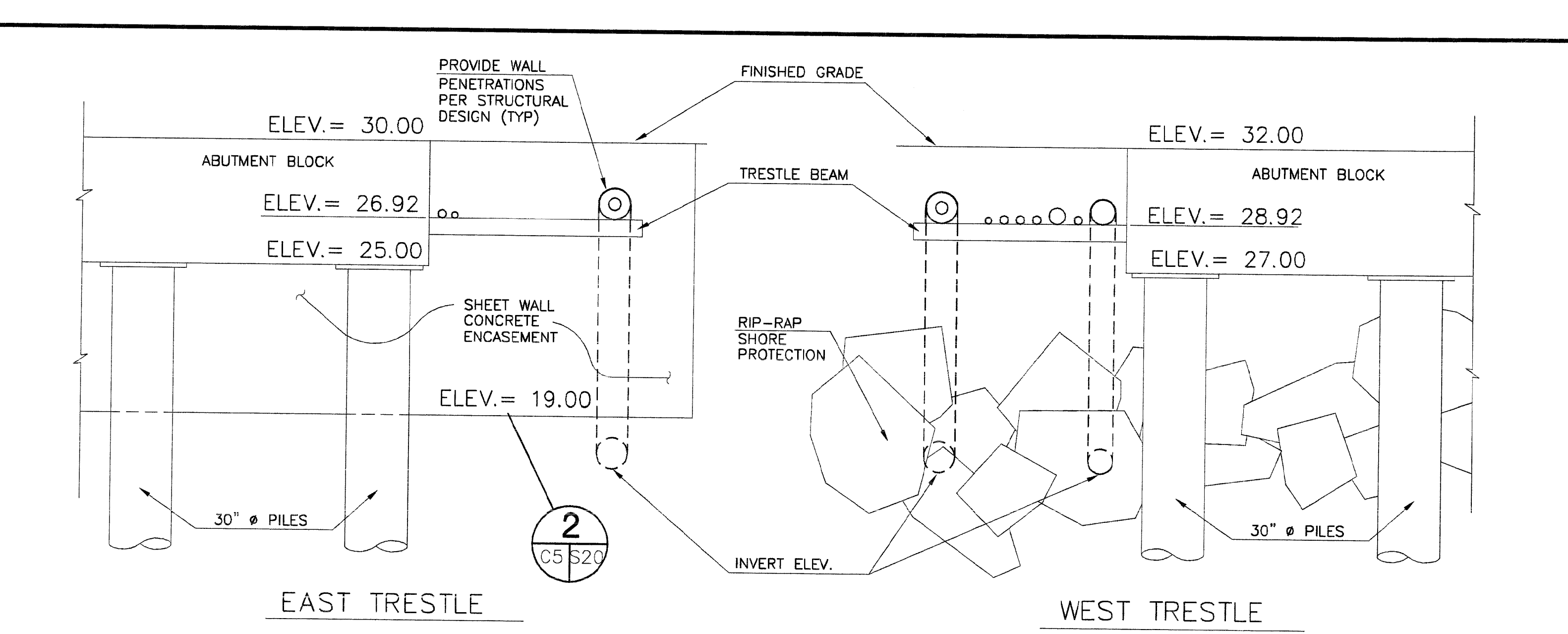




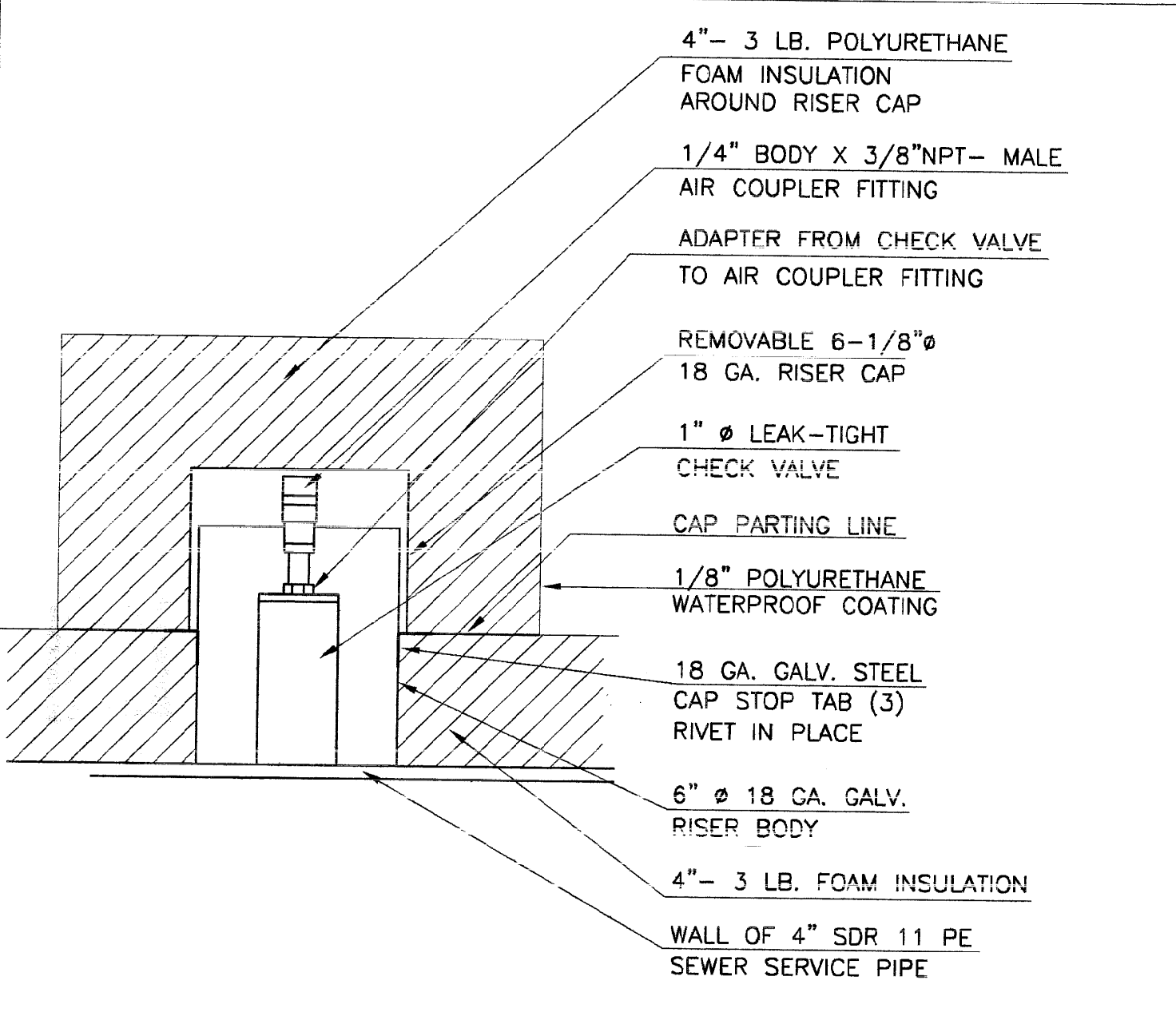
**26 MANHOLE INVERT PLAN**  
SCALE: 1" = 30"



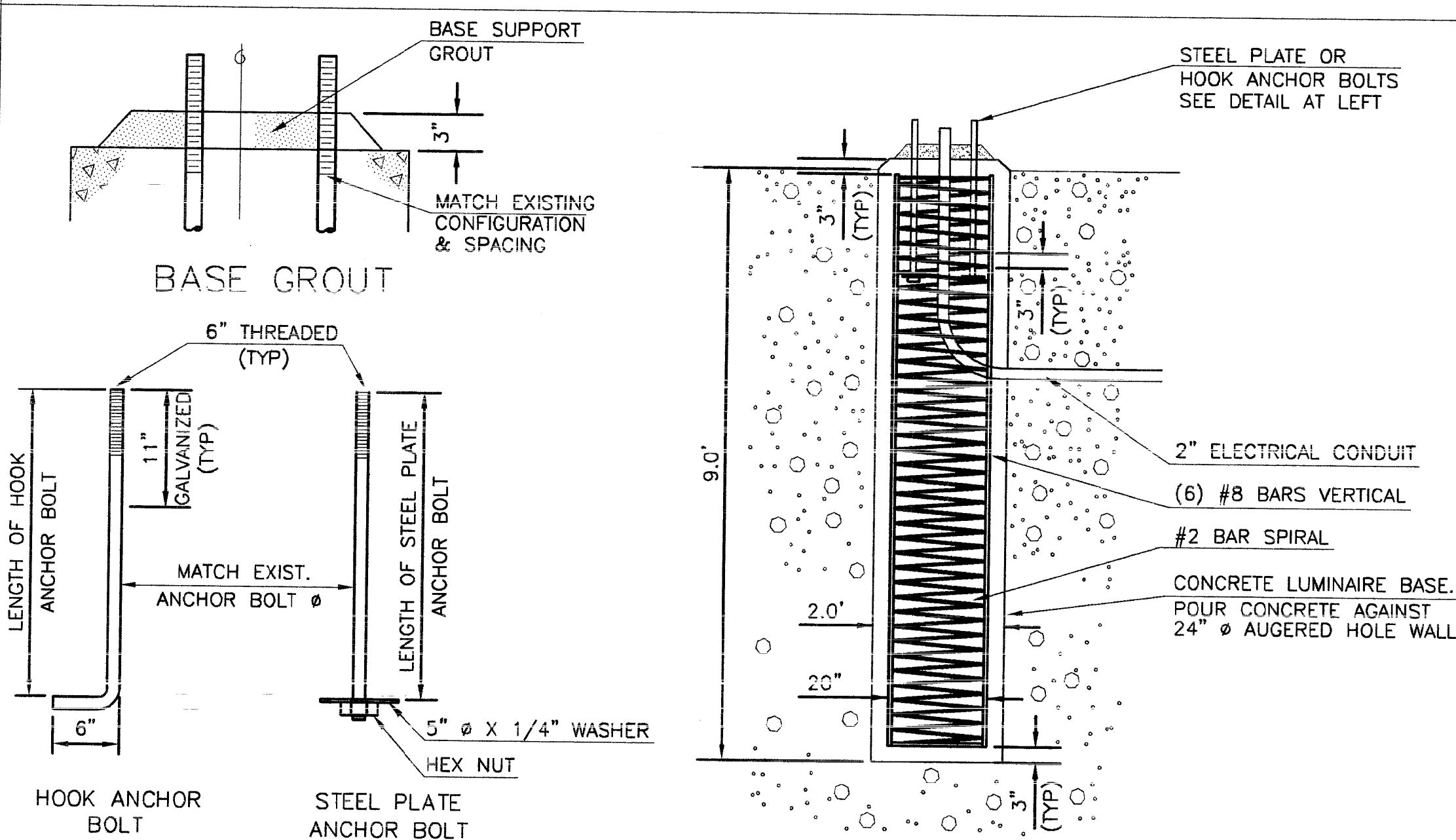
**27 UTILITY CHASE ENTRY**  
SCALE: 1" = 30"



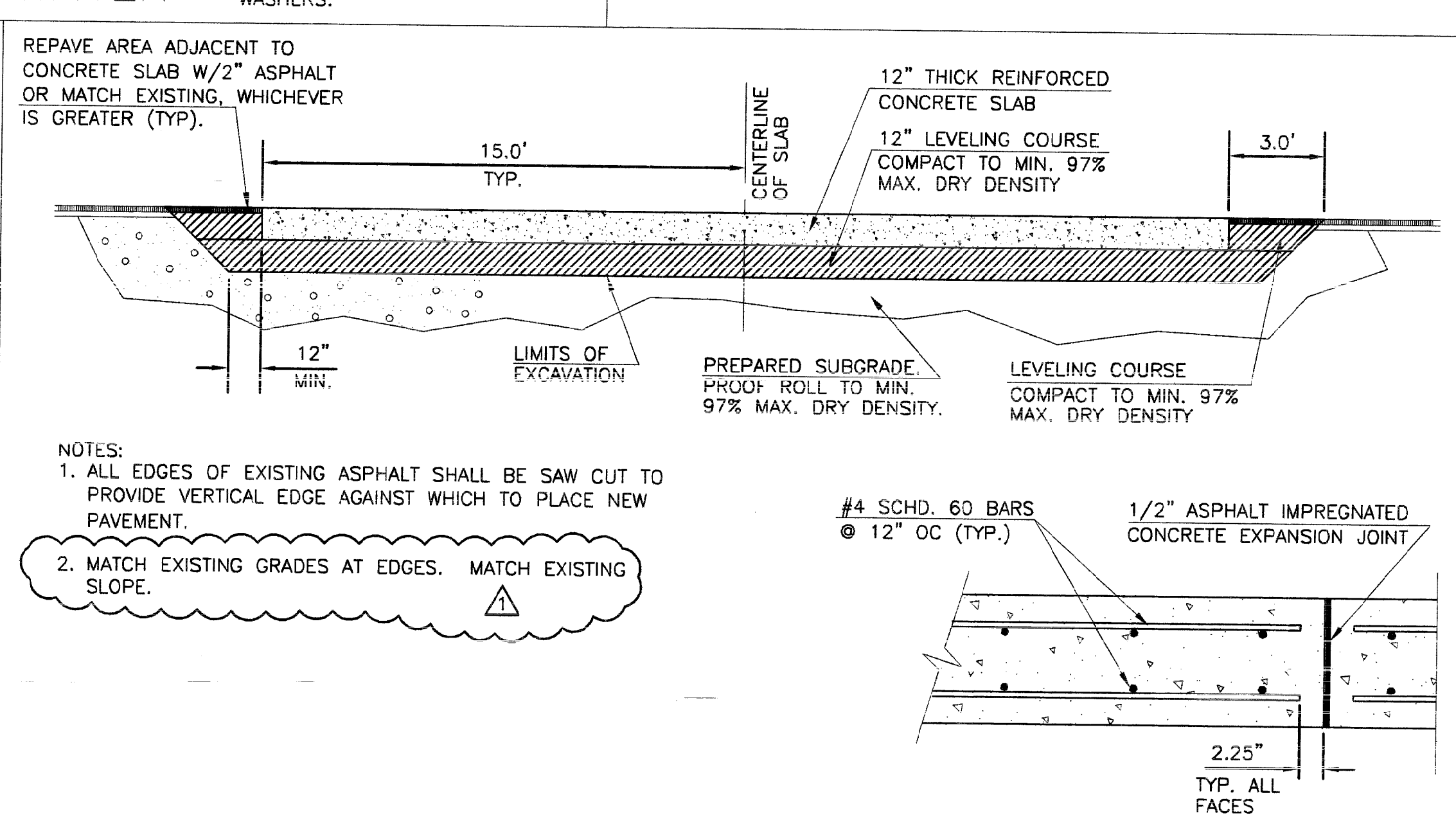
**28 SOUTH ELEVATION ABUTMENT PENETRATION.**  
SCALE: 1" = 10"



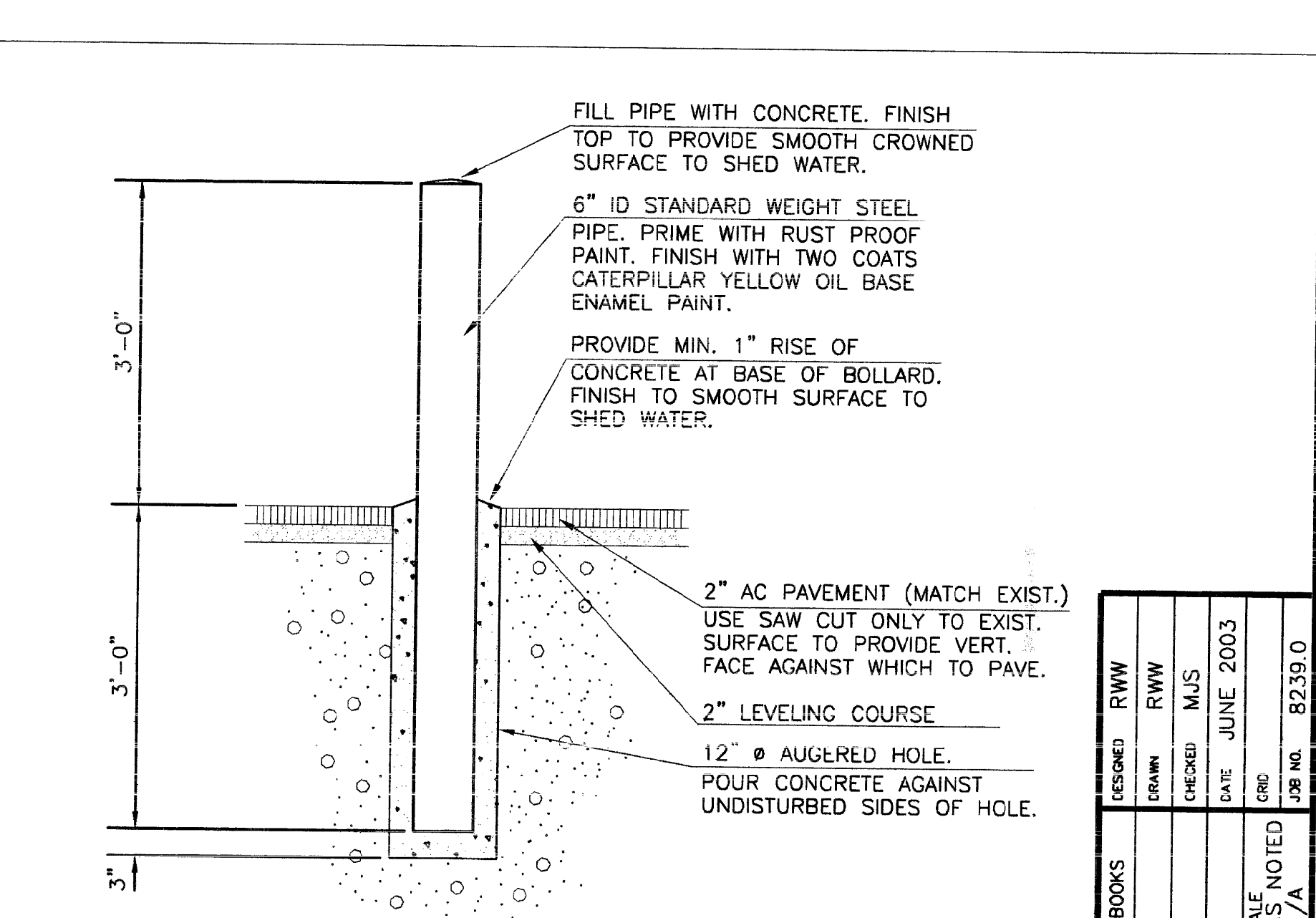
**29 AIR COMPRESSOR CONNECTION**  
SCALE: 1" = 40"



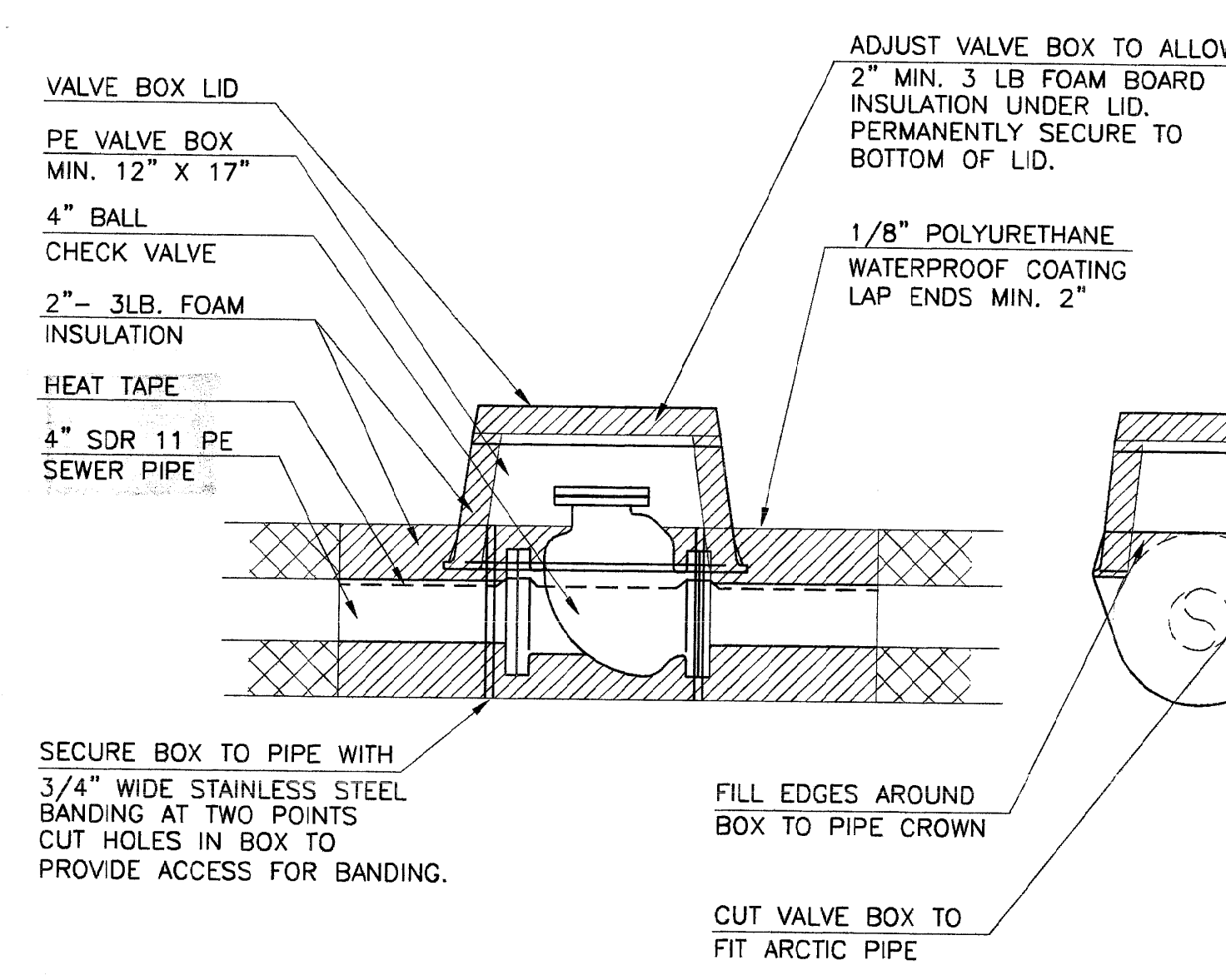
**30 LUMINAIRE BASE**  
SCALE: 1" = 10"



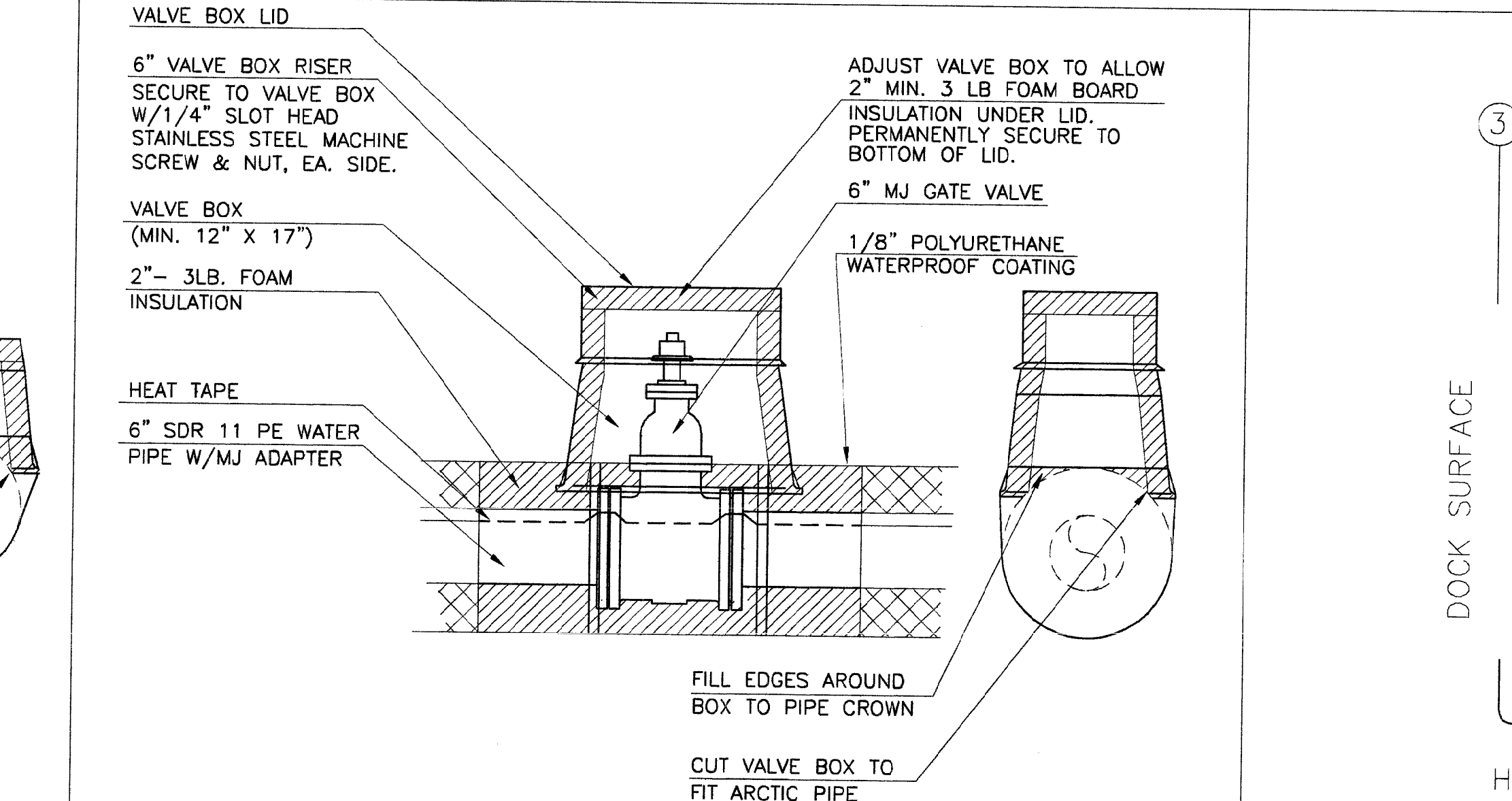
**31 TRESTLE APPROACH SLAB**  
SCALE: 1" = 10"



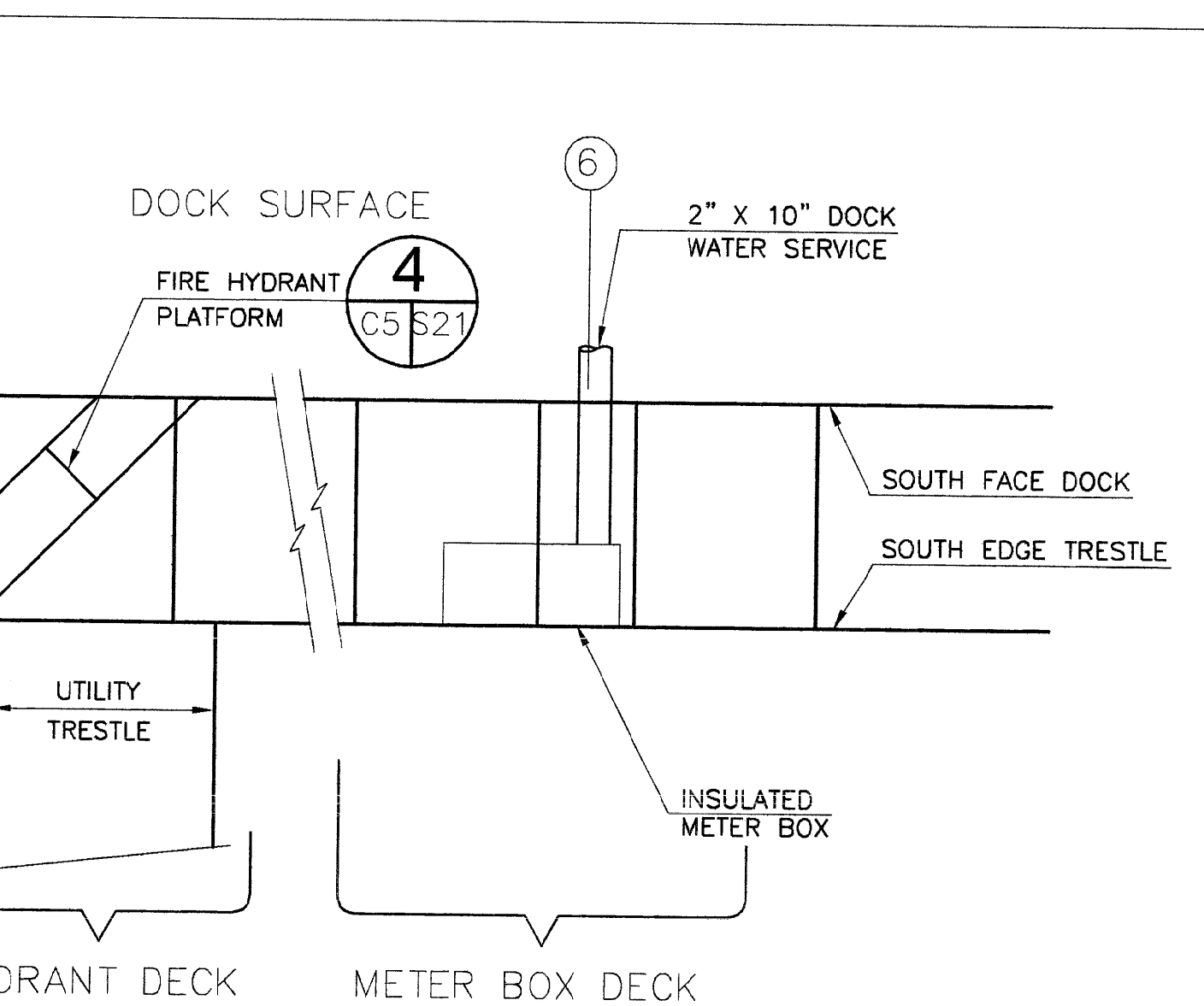
**32 HYDRANT BOLLARDS**  
SCALE: 1" = 40"



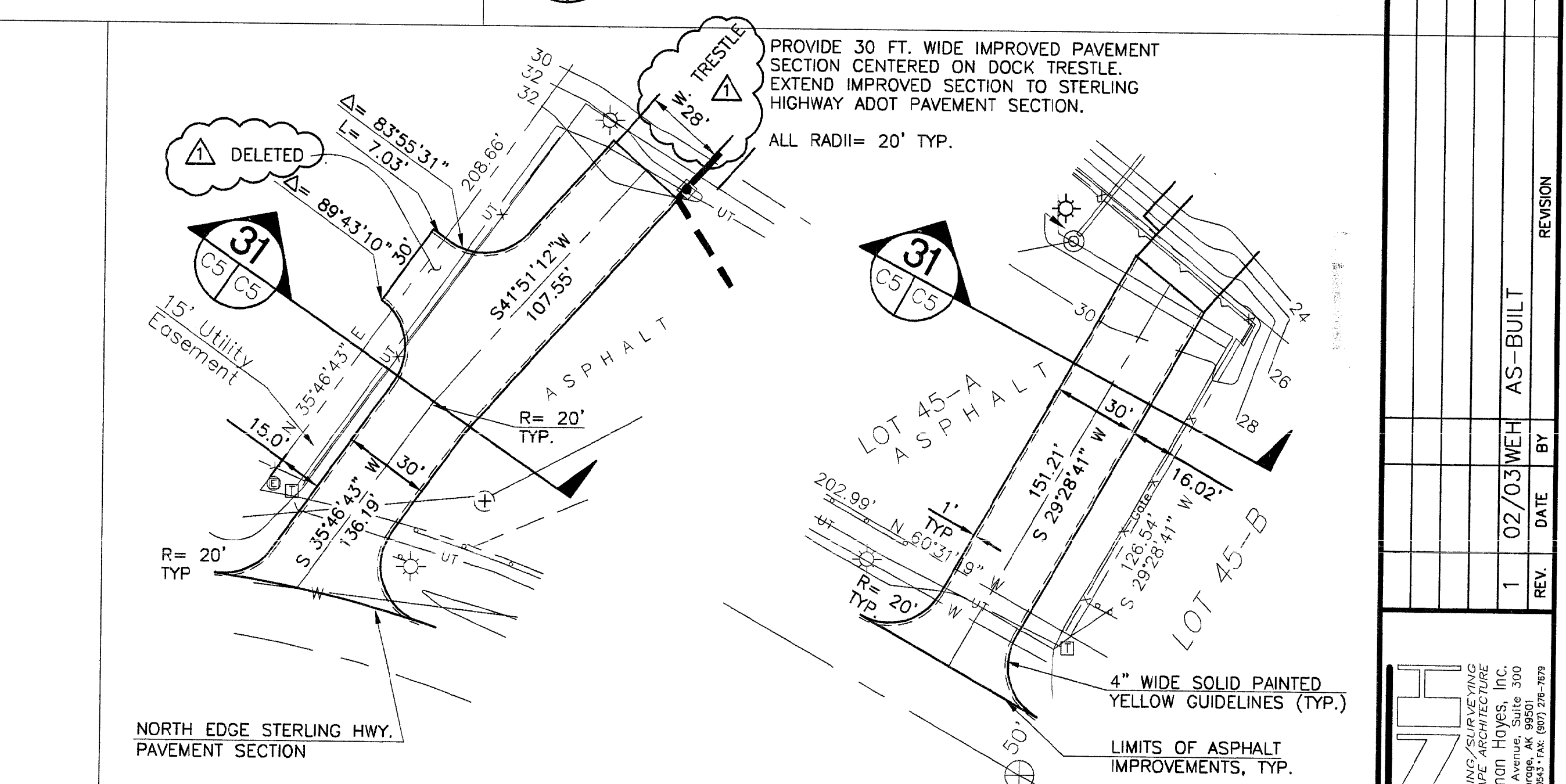
**33 TYP. SEWER CHECK VALVE**  
SCALE: 1" = 40"



**34 TYP. WATER GATE VALVE**  
SCALE: 1" = 40"



**35 WEST CORNER DECKING**  
NOT TO SCALE

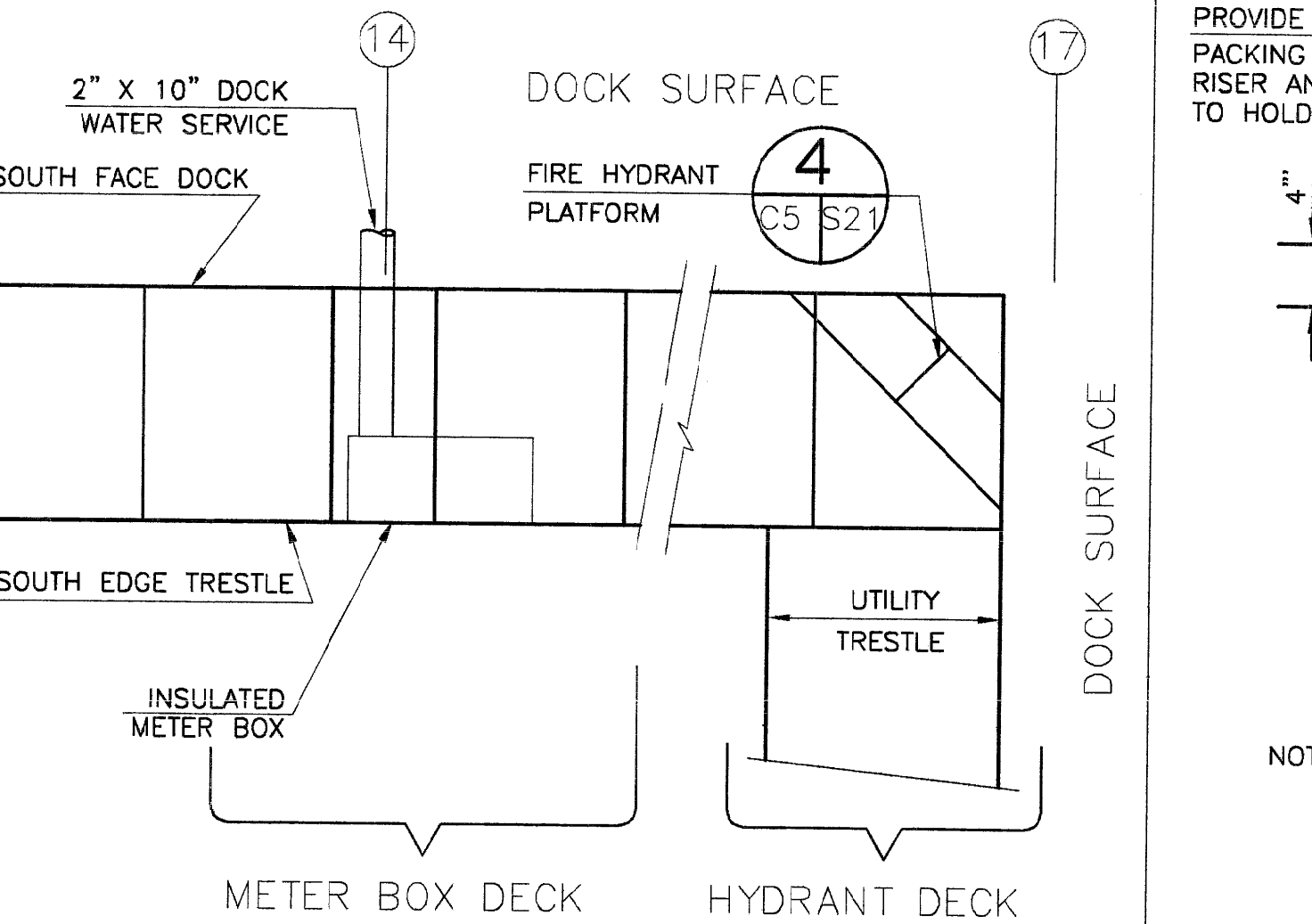


**36 EAST CORNER DECKING**  
NOT TO SCALE

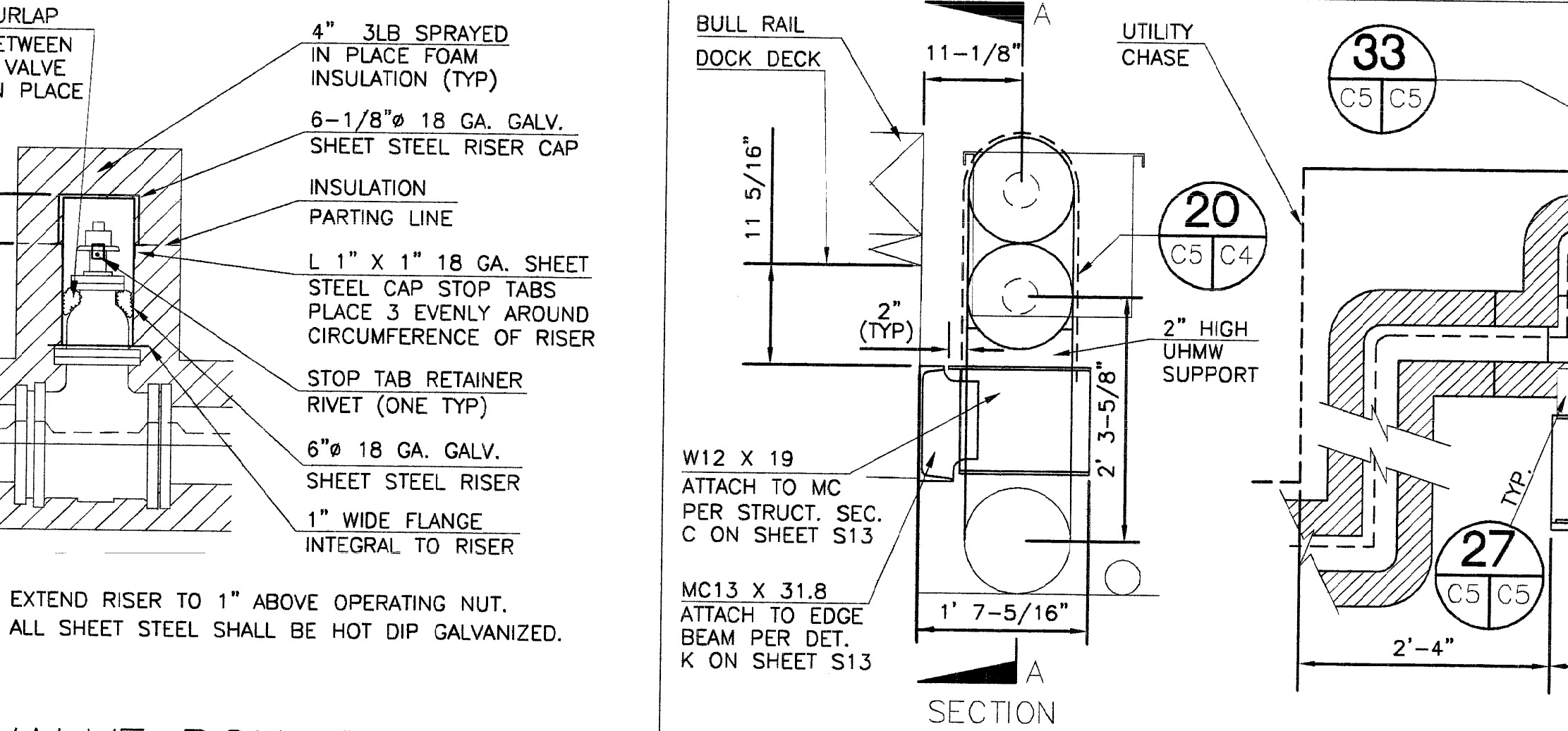
**37 VALVE BOX-SHEET STEEL RISER**  
NOT TO SCALE

**38 AUXILIARY SEWER SERVICE CONNECTION**  
SCALE: 1" = 30"

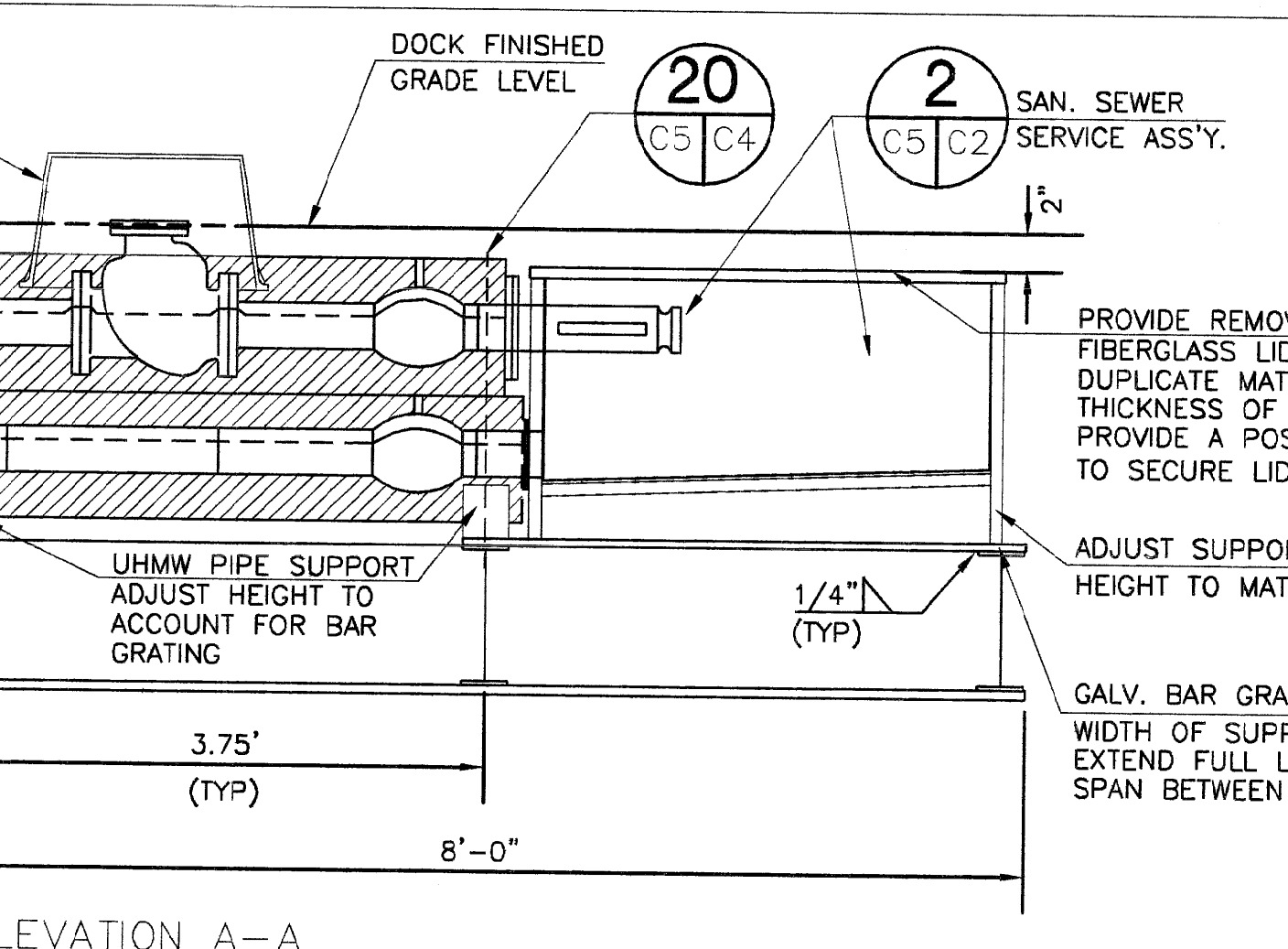
**39 PAVEMENT IMPROVEMENTS FOR TRESTLE APPROACHES**  
SCALE: 1" = 40"



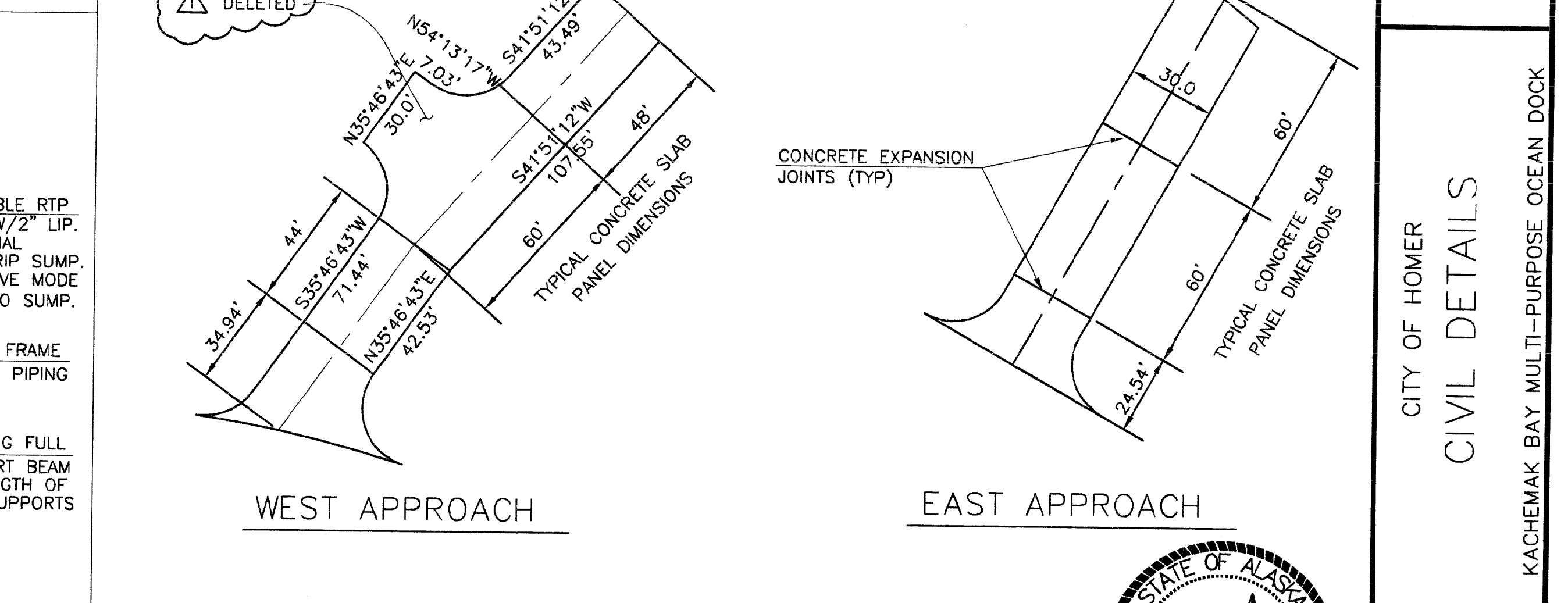
**36 EAST CORNER DECKING**  
NOT TO SCALE



**37 VALVE BOX-SHEET STEEL RISER**  
NOT TO SCALE



**38 AUXILIARY SEWER SERVICE CONNECTION**  
SCALE: 1" = 30"



**39 PAVEMENT IMPROVEMENTS FOR TRESTLE APPROACHES**  
SCALE: 1" = 40"

REVISION	DATE	BY	REASON
1	07/03/03	MEH	AS-BUILT

NO.	DATE	BY	REASON
1	07/03/03	MEH	AS-BUILT

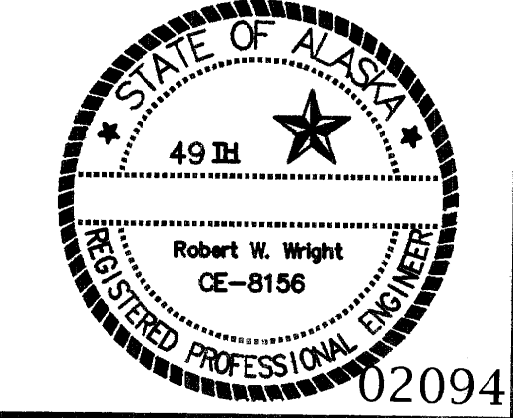
NO.	DATE	BY	REASON
1	07/03/03	MEH	AS-BUILT

NO.	DATE	BY	REASON
1	07/03/03	MEH	AS-BUILT

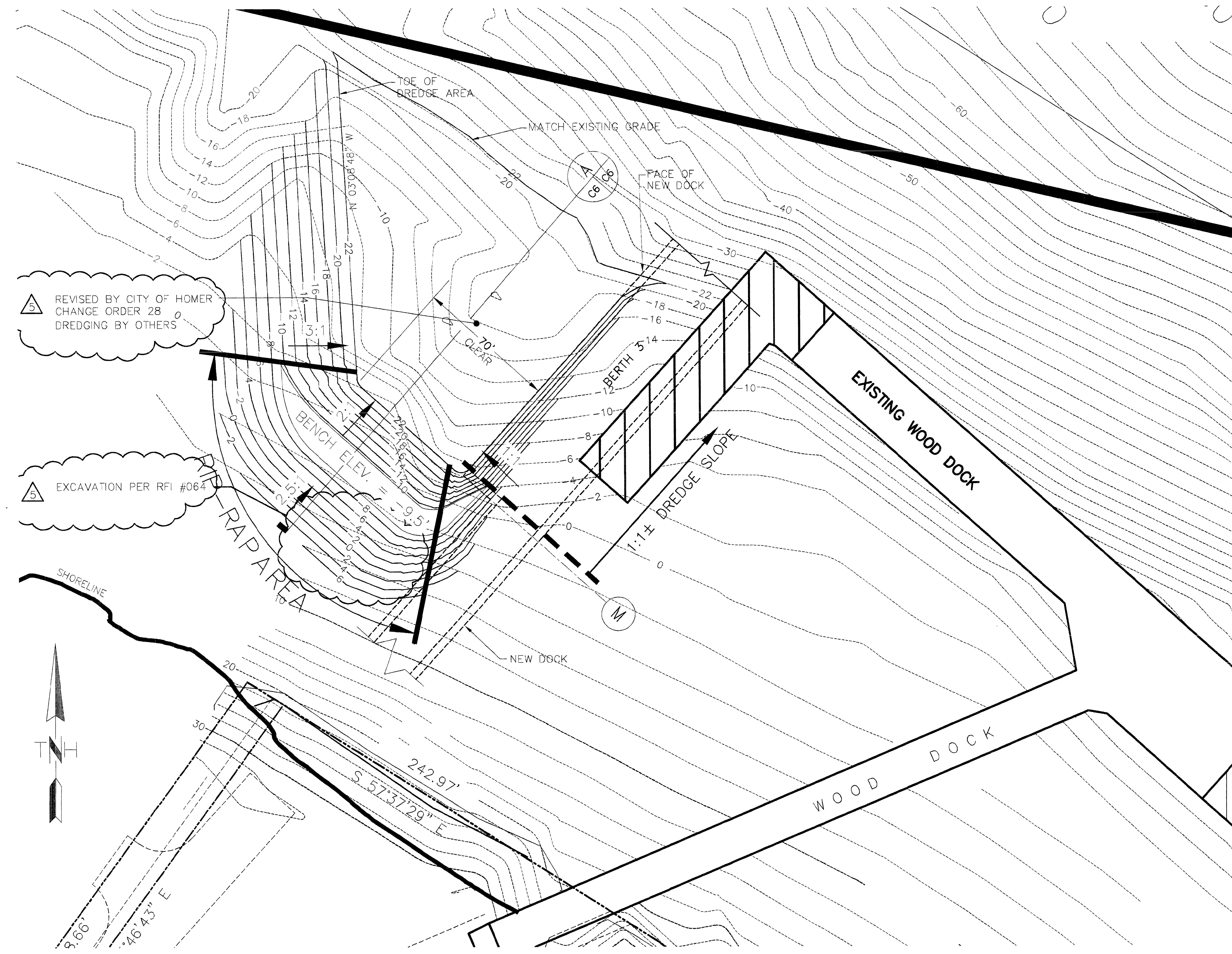
  

NO.	DATE	BY	REASON
1	07/03/03	MEH	AS-BUILT



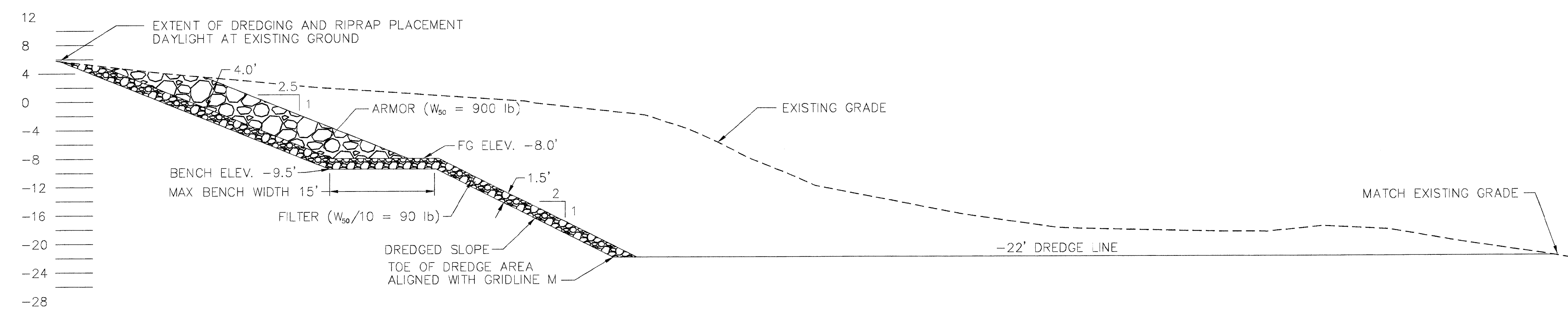
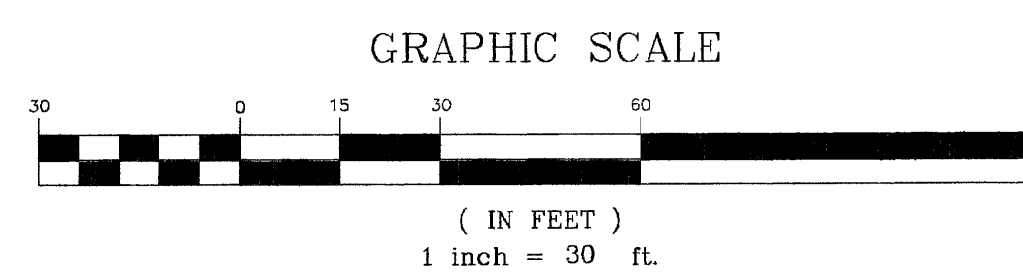
PLOT DATE: 06/12/03 PLOT VIEW: P1





**BERTH 3 DREDGING**

SCALE: 1" = 30'



**A DREDGE SECTION**

C6/C6 SCALE: 1" = 10'

**LEGEND**

- ⊕ FOUND 2 1/2" BRASS CAP MONUMENT
- ⊗ STORM DRAIN CATCH BASIN
- ⊙ STORM DRAIN MANHOLE
- ⊗ WATER VALVE
- ⊙ WATER VAULT
- ⊗ WATER KEY BOX
- ⊙ FIRE HYDRANT
- ⊙ SANITARY SEWER MANHOLE
- ⊕ LIGHT POLE
- ⊗ ELECTRIC METER
- ⊙ ELECTRIC TRANSFORMER
- ⊙ ELECTRIC J-BOX
- ⊙ ELECTRIC PEDESTAL
- ⊙ TELEPHONE J-BOX
- ⊙ BOLLARD
- ⊕ SIGN
- S— SANITARY SEWER LINE
- SD— STORM DRAIN LINE
- UT— UNDERGROUND TELEPHONE LINE
- 12" WIDE WOOD RETAINING WALL
- X— FENCE
- GR— GUARD RAIL
- 2B— EXISTING CONTOUR
- C1 CURVE DATA, SEE TABLE

**PLANIMETRIC NOTES**

1. EASEMENT SHOWN IN APPROXIMATE LOCATION ONLY.
2. A 15' WIDE EASEMENT IS CENTERED ALONG ALL UNDERGROUND UTILITIES.
3. UNDERGROUND UTILITIES, OTHER THAN THOSE SHOWN HEREON, MAY EXIST.
4. A 10' WIDE UTILITY EASEMENT EXISTS ADJACENT TO THE RIGHT OF WAY OF HOMER SPIT ROAD.
5. EASEMENTS OF RECORD OTHER THAN THOSE SHOWN ON PLAT NO. 93-49, H.R.D., ARE NOT SHOWN HEREON.
6. BATHYMETRIC CONTOUR INFORMATION PROVIDED BY ANDERSEN BJORNSTAD KANE JACOBS, INC.

**SURVEY CONTROL NOTES**

1. BASIS OF VERTICAL CONTROL FOR THIS PROJECT IS THE CENTERLINE STERLING HIGHWAY MONUMENT SHOWN AS "POINT #1" WITH AN ELEVATION OF 27.09 FEET ABOVE MLLW.
2. BASIS OF HORIZONTAL CONTROL FOR THIS PROJECT IS A LINE BETWEEN THE CENTERLINE STERLING HIGHWAY MONUMENT SHOWN AS "POINT #1" AND SECOND CENTERLINE HIGHWAY MON. SHOWN AS POINT #2 ON A BEARING OF N 60° 31' 19" W AT A DISTANCE OF 371.60'.
  - POINT # 1 = N 50000.00  
E 20000.00
  - POINT # 2 = N 50182.87  
E 19676.49

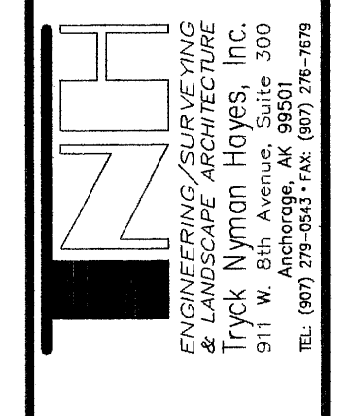
**DREDGING NOTES:**

1. DREDGE SLOPE UNDER WEST WING OF DOCK SHALL BE 1:1.
2. TRANSITION 1:1 TO THE 2:1 & 2.5:1 SLOPES THROUGH THE CURVED AREA SHOWN BETWEEN THE DASHED LINE AND SOLID LINE AT THE EAST SIDE OF THE DREDGING.
3. INSTALL RIP-RAP BETWEEN THE TWO SOLID BOLD LINES RUNNING TRANSVERSE TO THE CONTOURS, IN THE AREA LABELED 'RIP-RAP'.
4. TRANSITION FROM 2:1 & 2.5:1 TO 3:1 SLOPES IN THE CURVED AREA AT THE WEST SIDE OF THE DREDGING AREA.
5. EXTEND -22 FT. DREDGE EXCAVATION SOUTHWEST ALONG PROPOSED WEST FACE OF DOCK TO GRID LINE M.
6. DREDGE WEST SIDE OF DOCK TO LINES & GRADES SHOWN.
7. RIP RAP FACE OF DREDGE SLOPE WITH RIP RAP SALVAGED FROM ROCK PILE (SALVAGED FROM ROCK PILE OR OTHER SIZED, LOCALLY AVAILABLE RIP-RAP IF APPROVED BY THE ENGINEER IN WRITING). SEE SHEET D-1, NOTE 8. ADDITIONAL ROCK REQUIRED BEYOND VOLUME OF EXISTING ROCK PILE SHALL BE FURNISHED BY THE CONTRACTOR. ROCK SHALL BE 700-2000 LB. ⌀ 28" TO 36" IN SIZE.
8. CONTRACTOR SHALL DISPOSE OF DREDGE MATERIAL IN CORPS OF ENGINEERS DREDGE DISPOSAL AREA, LOCATED DIRECTLY ADJACENT TO CONTRACTOR LAYDOWN AREA.
9. METHOD OF PAYMENT; RIP RAP PER TON, DREDGING PER CUBIC YARD. DREDGE QUANTITY WILL BE VERIFIED BY AVERAGE END AREA METHOD AT DISPOSAL SITE.
10. CONTOURS SHOW DREDGED SLOPE BEFORE INSTALLATION OF ROCK PROTECTION

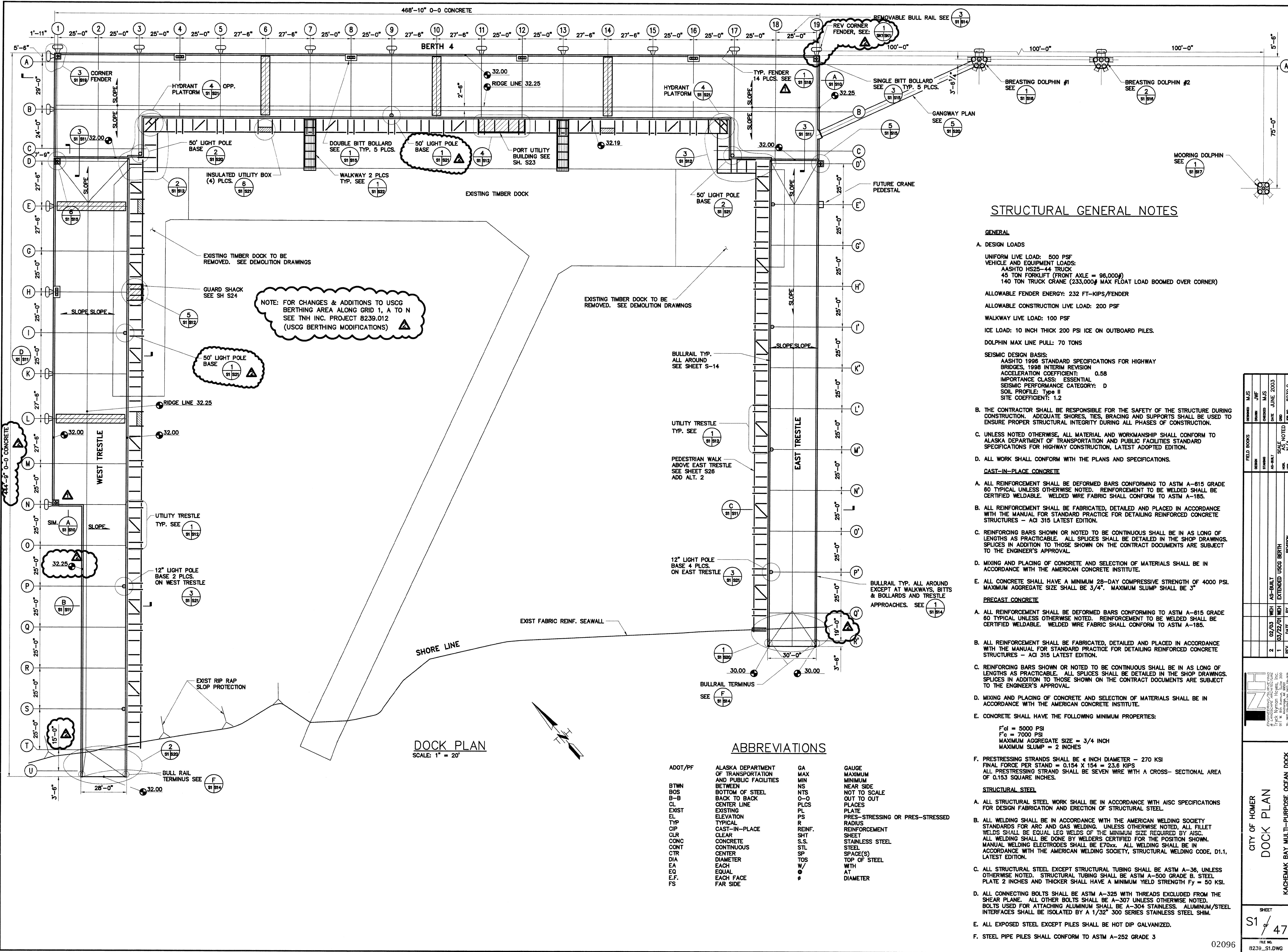
**SLOPE PROTECTION NOTES**

1. ASSUME NONBREAKING WAVES
2. MEDIAN ARMOR WEIGHT (W<sub>50</sub>) = 900 lb
3. PRIMARY ARMOR THICKNESS CONSISTS OF DOUBLE LAYER (4.0 ft)
4. FILTER LAYER (W<sub>60/10</sub>) MEDIAN STONE WEIGHT IS 90 lb
5. FILTER LAYER THICKNESS IS 1.5 ft

DRAWING NAME: R239C6-rev5.dwg  
 PRODUCT No. & LCTR: M\_V239C6-01010002396-rev5.dwg  
 PLOT SCALE: 1:100  
 PLOT DATE: 06/22/03  
 PLOT VIEW: PT  
 LAYER MGR: Celay  
 PLOTTED: 09/18/01  
 XREF'S USED FOR THIS DWG:  
 M\_V239C6

DESIGNED	BY	DATE	REVISED	BY	DATE
DRWN	AS-BUILT	02/03	09/18/01	08/15/01	02/08/03
CHECKED	REVISION	1	2	3	4
DATE	SCALE	DATE	DATE	DATE	DATE
JUNE 2003	N/A				
FILE NO.	PROJECT NO.				
02095	02095	CITY OF HOMER <b>BERTH 3 DREDGING</b> <b>PLAN AND SECTION</b> KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK			
		SHEET <b>C6</b> / 47			
		FILE NO. 02095-06-rev5.dwg			





**STRUCTURAL GENERAL NOTES**

- GENERAL**
- A. DESIGN LOADS**
- UNIFORM LIVE LOAD: 500 PSF
  - VEHICLE AND EQUIPMENT LOADS:
    - AASHTO HS25-44 TRUCK
    - 45 TON FORKLIFT (FRONT AXLE = 96,000#)
    - 140 TON TRUCK CRANE (233,000# MAX FLOAT LOAD BOOMED OVER CORNER)
  - ALLOWABLE FENDER ENERGY: 232 FT-KIPS/FENDER
  - ALLOWABLE CONSTRUCTION LIVE LOAD: 200 PSF
  - WALKWAY LIVE LOAD: 100 PSF
  - ICE LOAD: 10 INCH THICK 200 PSI ICE ON OUTBOARD PILES.
  - DOLPHIN MAX LINE PULL: 70 TONS
- SEISMIC DESIGN BASIS:**
- AASHTO 1998 STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1998 INTERIM REVISION
  - ACCELERATION COEFFICIENT: 0.58
  - IMPORTANCE CLASS: ESSENTIAL
  - SEISMIC PERFORMANCE CATEGORY: D
  - SOIL PROFILE: Type II
  - SITE COEFFICIENT: 1.2
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE STRUCTURE DURING CONSTRUCTION. ADEQUATE SHORES, TIES, BRACING AND SUPPORTS SHALL BE USED TO ENSURE PROPER STRUCTURAL INTEGRITY DURING ALL PHASES OF CONSTRUCTION.**
- C. UNLESS NOTED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST ADOPTED EDITION.**
- D. ALL WORK SHALL CONFORM WITH THE PLANS AND SPECIFICATIONS.**
- CAST-IN-PLACE CONCRETE**
- A. ALL REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615 GRADE 60 TYPICAL UNLESS OTHERWISE NOTED. REINFORCEMENT TO BE WELDED SHALL BE CERTIFIED WELDABLE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.**
  - B. ALL REINFORCEMENT SHALL BE FABRICATED, DETAILED AND PLACED IN ACCORDANCE WITH THE MANUAL FOR STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES - ACI 315 LATEST EDITION.**
  - C. REINFORCING BARS SHOWN OR NOTED TO BE CONTINUOUS SHALL BE IN AS LONG OF LENGTHS AS PRACTICABLE. ALL SPLICES SHALL BE DETAILED IN THE SHOP DRAWINGS. SPLICES IN ADDITION TO THOSE SHOWN ON THE CONTRACT DOCUMENTS ARE SUBJECT TO THE ENGINEER'S APPROVAL.**
  - D. MIXING AND PLACING OF CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE.**
  - E. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI. MAXIMUM AGGREGATE SIZE SHALL BE 3/4". MAXIMUM SLUMP SHALL BE 3".**
- PRECAST CONCRETE**
- A. ALL REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615 GRADE 60 TYPICAL UNLESS OTHERWISE NOTED. REINFORCEMENT TO BE WELDED SHALL BE CERTIFIED WELDABLE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.**
  - B. ALL REINFORCEMENT SHALL BE FABRICATED, DETAILED AND PLACED IN ACCORDANCE WITH THE MANUAL FOR STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES - ACI 315 LATEST EDITION.**
  - C. REINFORCING BARS SHOWN OR NOTED TO BE CONTINUOUS SHALL BE IN AS LONG OF LENGTHS AS PRACTICABLE. ALL SPLICES SHALL BE DETAILED IN THE SHOP DRAWINGS. SPLICES IN ADDITION TO THOSE SHOWN ON THE CONTRACT DOCUMENTS ARE SUBJECT TO THE ENGINEER'S APPROVAL.**
  - D. MIXING AND PLACING OF CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE.**
  - E. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:**
    - $f'_{ci} = 5000$  PSI
    - $f'_c = 7000$  PSI
    - MAXIMUM AGGREGATE SIZE = 3/4 INCH
    - MAXIMUM SLUMP = 2 INCHES
  - F. PRESTRESSING STRANDS SHALL BE 1/2 INCH DIAMETER - 270 KSI FINAL FORCE PER STRAND = 0.154 X 154 = 23.6 KIPS ALL PRESTRESSING STRAND SHALL BE SEVEN WIRE WITH A CROSS-SECTIONAL AREA OF 0.153 SQUARE INCHES.**
- STRUCTURAL STEEL**
- A. ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS FOR DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL.**
  - B. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARDS FOR ARC AND GAS WELDING. UNLESS OTHERWISE NOTED, ALL FILLET WELDS SHALL BE EQUAL LEG WELDS OF THE MINIMUM SIZE REQUIRED BY AISC. ALL WELDING SHALL BE DONE BY WELDERS CERTIFIED FOR THE POSITION SHOWN. MANUAL WELDING ELECTRODES SHALL BE E70xx. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, D1.1, LATEST EDITION.**
  - C. ALL STRUCTURAL STEEL EXCEPT STRUCTURAL TUBING SHALL BE ASTM A-36, UNLESS OTHERWISE NOTED. STRUCTURAL TUBING SHALL BE ASTM A-500 GRADE B. STEEL PLATE 2 INCHES AND THICKER SHALL HAVE A MINIMUM WELD STRENGTH  $F_y = 50$  KSI.**
  - D. ALL CONNECTING BOLTS SHALL BE ASTM A-325 WITH THREADS EXCLUDED FROM THE SHEAR PLANE. ALL OTHER BOLTS SHALL BE A-307 UNLESS OTHERWISE NOTED. BOLTS USED FOR ATTACHING ALUMINUM SHALL BE A-304 STAINLESS. ALUMINUM/STEEL INTERFACES SHALL BE ISOLATED BY A 1/32" 300 SERIES STAINLESS STEEL SHM.**
  - E. ALL EXPOSED STEEL EXCEPT PILES SHALL BE HOT DIP GALVANIZED.**
  - F. STEEL PIPE PILES SHALL CONFORM TO ASTM A-252 GRADE 3**

**DOCK PLAN**  
SCALE: 1" = 20'

**ABBREVIATIONS**

ADOT/PF	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	GA	GAUGE
BTWN	BETWEEN	MAX	MAXIMUM
BOS	BOTTOM OF STEEL	MIN	MINIMUM
B-B	BACK TO BACK	NS	NEAR SIDE
CL	CENTER LINE	NTS	NOT TO SCALE
EXIST	EXISTING	O-O	OUT TO OUT
EL	ELEVATION	PLCS	PLACES
TYP	TYPICAL	PL	PLATE
CIP	CAST-IN-PLACE	PS	PRES-STRESSING OR PRES-STRESSED
CLR	CLEAR	R	RADIUS
CONC	CONCRETE	REINF.	REINFORCEMENT
CONT	CONTINUOUS	SHT	SHEET
CTR	CENTER	S.S.	STAINLESS STEEL
DIA	DIAMETER	STL	STEEL
EA	EACH	SP	SPACE(S)
EQ	EQUAL	TOS	TOP OF STEEL
E.F.	EACH FACE	W/	WITH
FS	FAR SIDE	Ø	AT
		Ø	DIAMETER

DESIGNED	MJMS	DATE	JUNE 2003
CHECKED	JWF	DATE	JUNE 2003
APPROVED	MJMS	DATE	JUNE 2003
SCALE	AS-BUILT	NOTED	BY
REV	DATE	BY	DESCRIPTION
1	02/03	MEH	EXTENDED USCG BERTH
2	02/03	MEH	REVISED

**CITY OF HOMER DOCK PLAN**

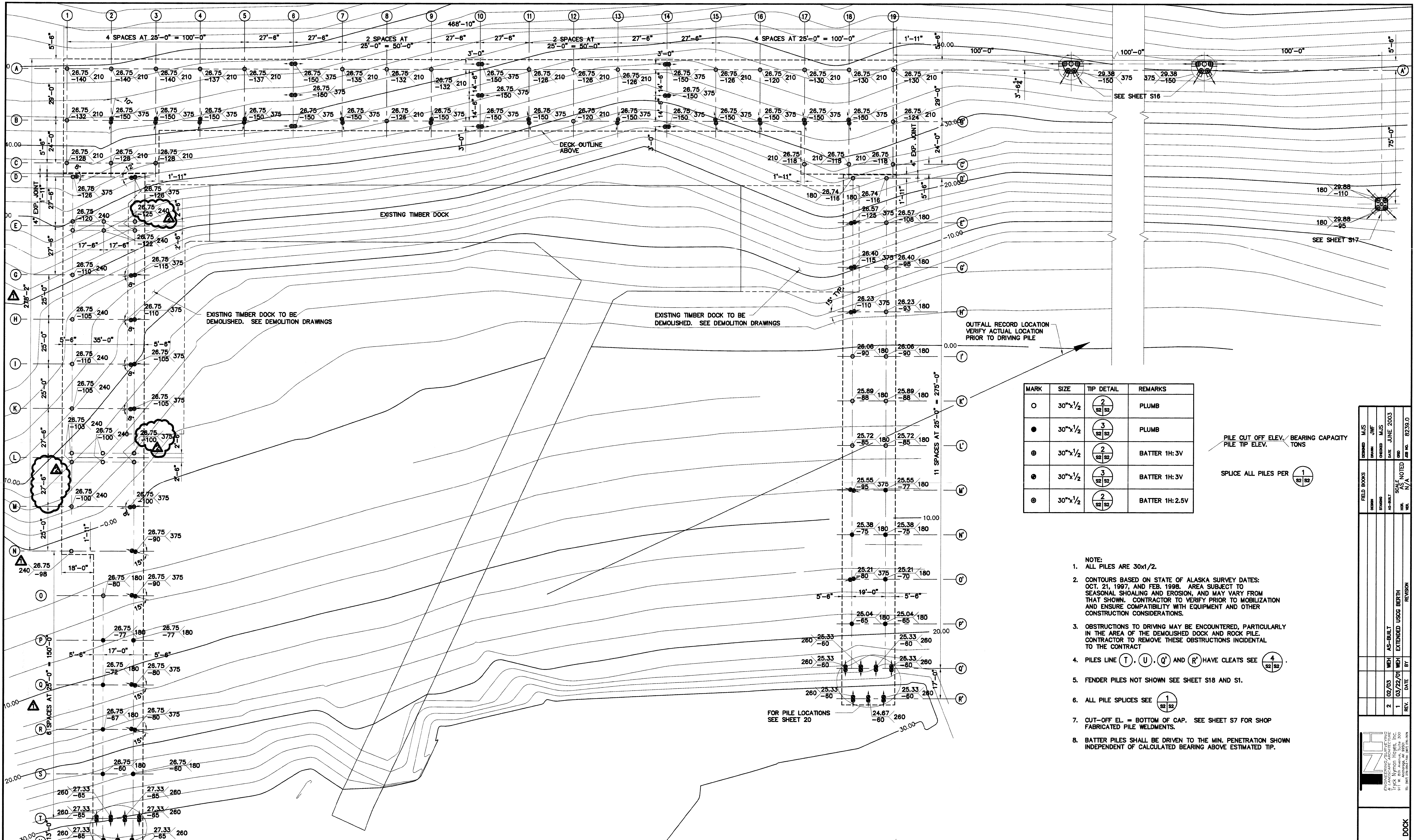
**KACHEMAK BAY MULTIPURPOSE OCEAN DOCK**

SHEET 51 OF 47

FILE NO. 8239\_S1.DWG

PLOT SCALE: 1:1 PLOT DATE: 06/22/03 PLOT WORK: PJ





MARK	SIZE	TIP DETAIL	REMARKS
○	30"x 1/2"	(2) (32) (32)	PLUMB
●	30"x 1/2"	(3) (32) (32)	PLUMB
⊗	30"x 1/2"	(2) (32) (32)	BATTER 1H:3V
⊙	30"x 1/2"	(3) (32) (32)	BATTER 1H:3V
⊚	30"x 1/2"	(2) (32) (32)	BATTER 1H:2.5V

PILE CUT OFF ELEV. BEARING CAPACITY  
PILE TIP ELEV. TONS

SPLICE ALL PILES PER (1) (32) (32)

- NOTE:
- ALL PILES ARE 30"x1/2".
  - CONTOURS BASED ON STATE OF ALASKA SURVEY DATES: OCT. 21, 1997, AND FEB. 1998. AREA SUBJECT TO SEASONAL SHOALING AND EROSION, AND MAY VARY FROM THAT SHOWN. CONTRACTOR TO VERIFY PRIOR TO MOBILIZATION AND ENSURE COMPATIBILITY WITH EQUIPMENT AND OTHER CONSTRUCTION CONSIDERATIONS.
  - OBSTRUCTIONS TO DRIVING MAY BE ENCOUNTERED, PARTICULARLY IN THE AREA OF THE DEMOLISHED DOCK AND ROCK PILE. CONTRACTOR TO REMOVE THESE OBSTRUCTIONS INCIDENTAL TO THE CONTRACT.
  - PILES LINE (T), (U), (Q) AND (R) HAVE CLEATS SEE (4) (32) (32).
  - FENDER PILES NOT SHOWN SEE SHEET S18 AND S1.
  - ALL PILE SPLICES SEE (1) (32) (32).
  - CUT-OFF EL. = BOTTOM OF CAP. SEE SHEET S7 FOR SHOP FABRICATED PILE WELDMENTS.
  - BATTER PILES SHALL BE DRIVEN TO THE MIN. PENETRATION SHOWN INDEPENDENT OF CALCULATED BEARING ABOVE ESTIMATED TIP.

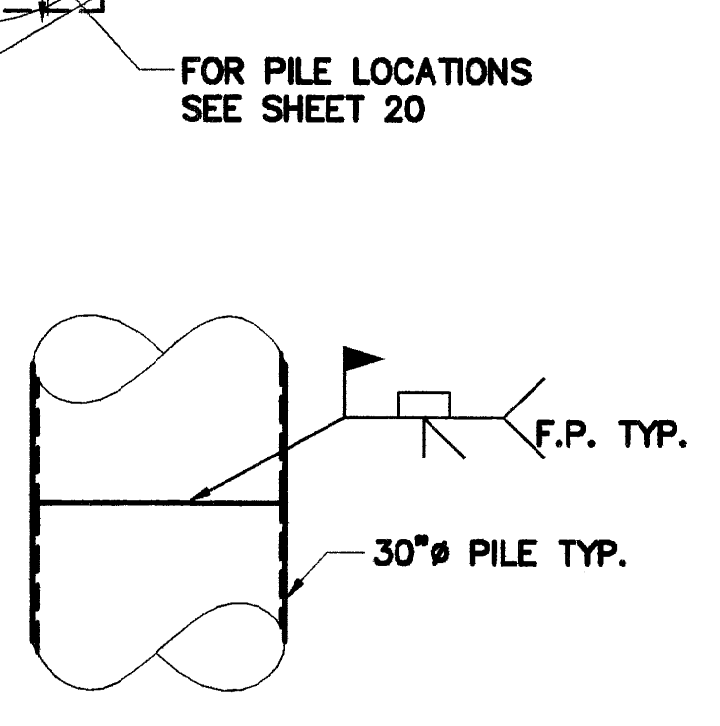
REV.	DATE	BY	REVISION
1	03/22/01	MEH	EXTENDED USDC BEETH
2	02/03	MEH	AS-BUILT

FIELD BOOKS DRAWN BY JMF CHECKED BY MUS DATE JUNE 2003 SCALE NOTED OR N/A REV. NO. 8239.0

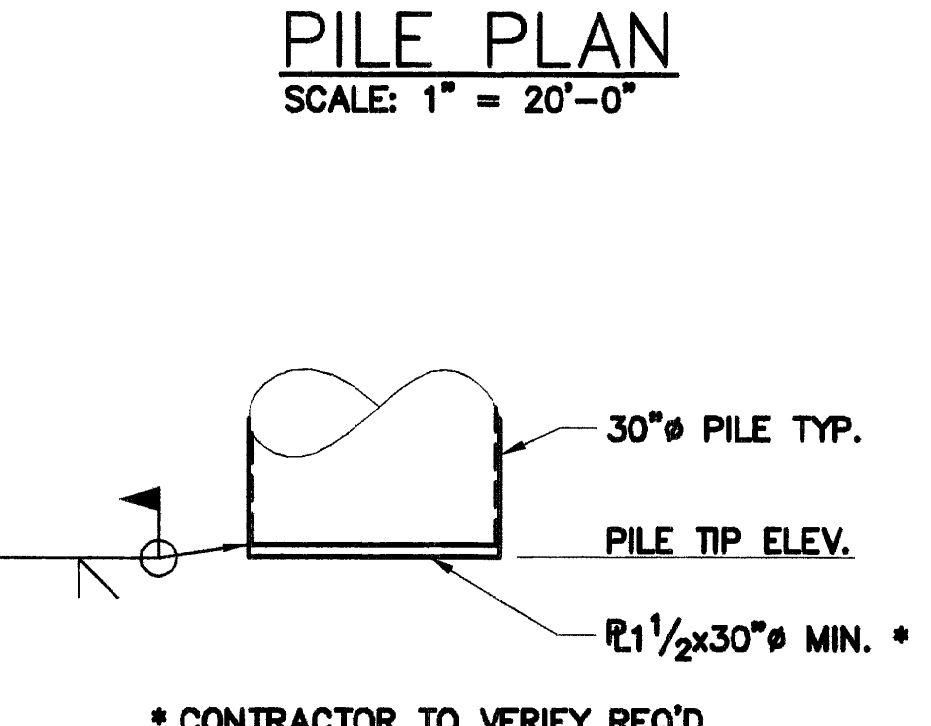
CITY OF HOMER  
PILE PLAN  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
S2 / 47

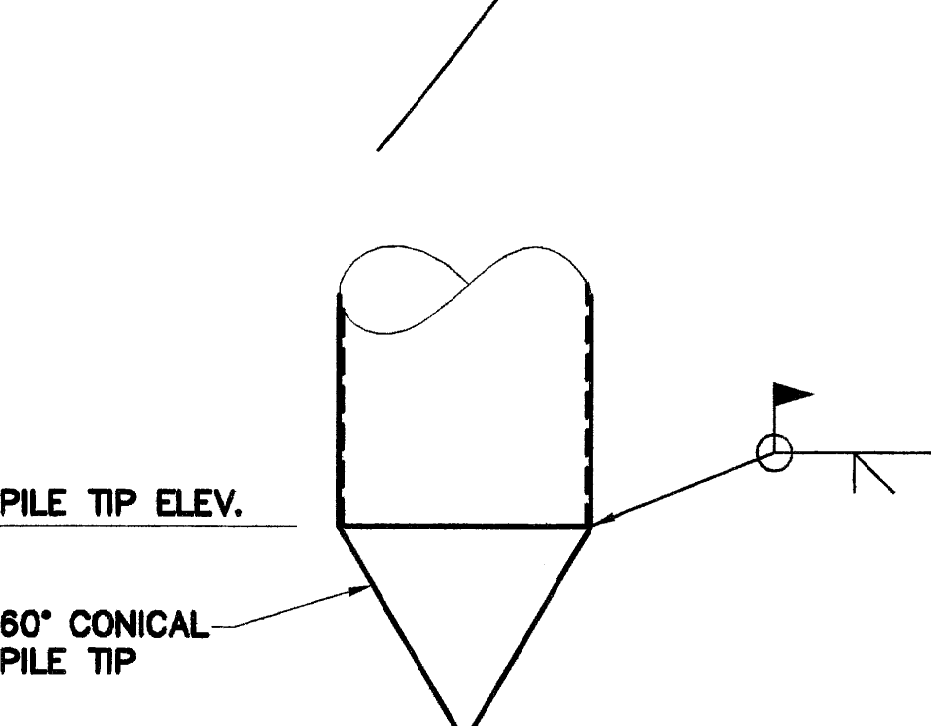
FILE NO. 9239\_S2.DWG



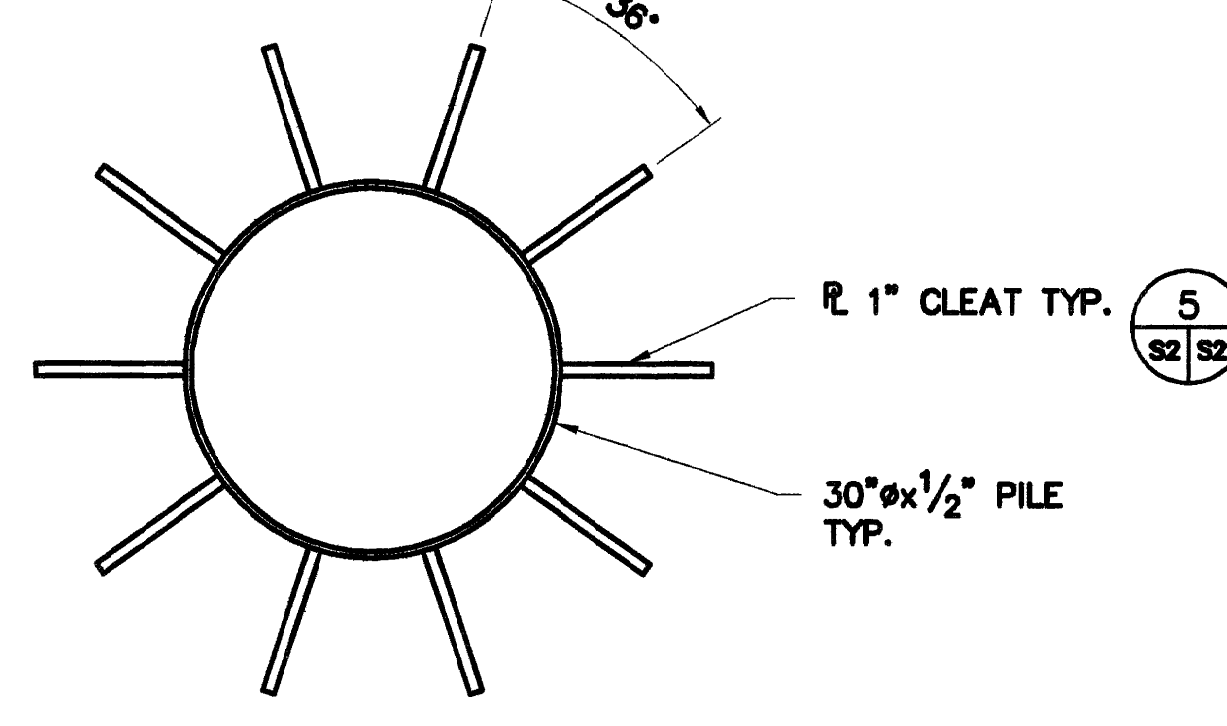
(1) TYPICAL PILE SPLICE  
SCALE: 1/2" = 1'-0"



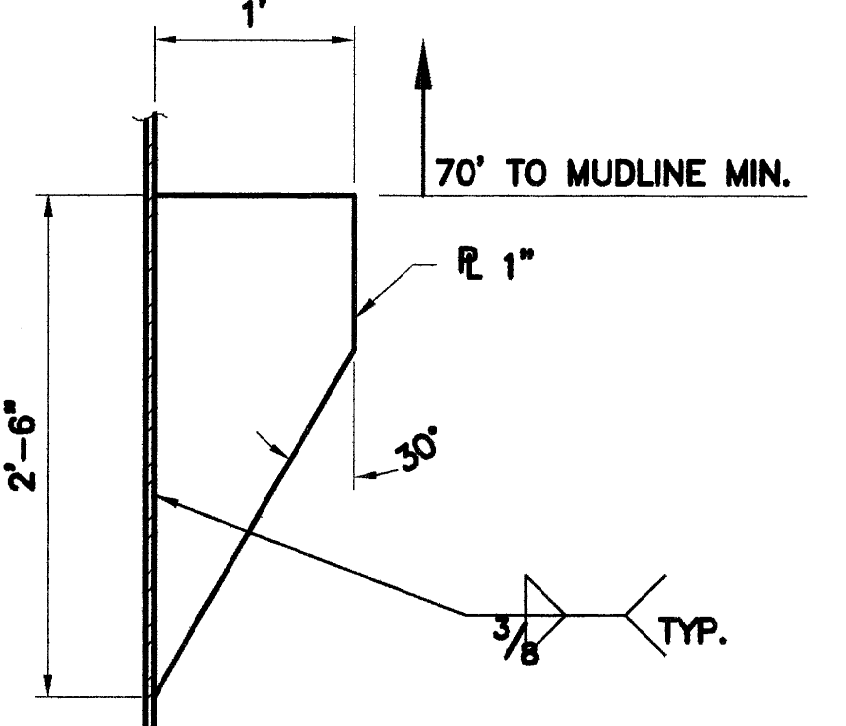
(2) TYPICAL PILE TIP DETAIL  
SCALE: 1/2" = 1'-0"



(3) PILE TIP DETAIL  
SCALE: 1/2" = 1'-0"

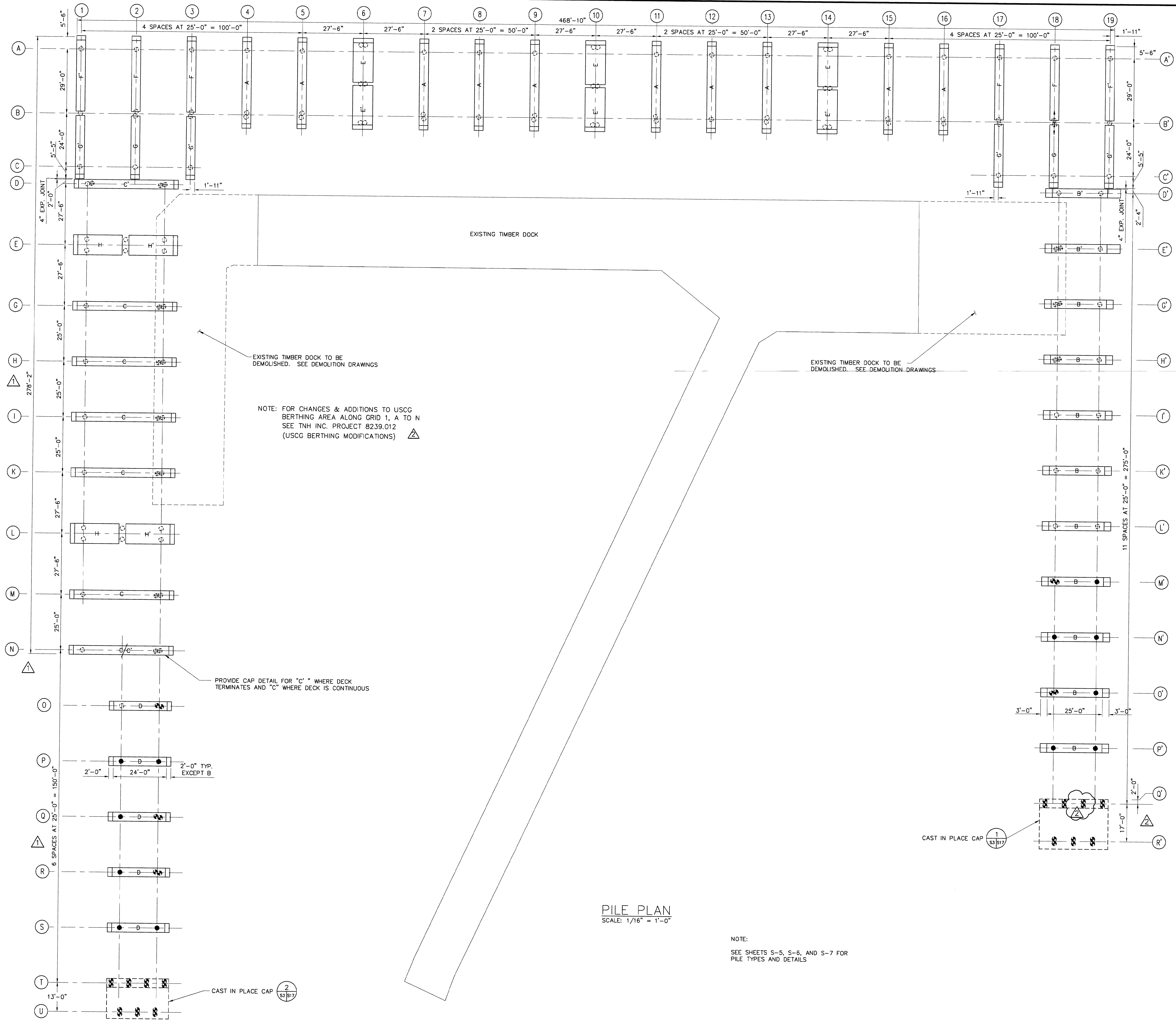


(4) PILE/CLEAT SECTION  
SCALE: 3/4" = 1'-0"



(5) PILE CLEAT DETAIL  
SCALE: 1/2" = 1'-0"

PLOT SCALE: 1:1 PLOT DATE: 06/22/03 PLOT VIEW: P1



PILE PLAN  
SCALE: 1/16" = 1'-0"

NOTE:  
SEE SHEETS S-5, S-6, AND S-7 FOR  
PILE TYPES AND DETAILS

REV	DATE	BY	DESCRIPTION
2	02/03	WEH	AS-BUILT
1	01/22/01	WEH	EXTENDED USCG BERTH

REV	DATE	BY	DESCRIPTION
1	01/22/01	WEH	EXTENDED USCG BERTH

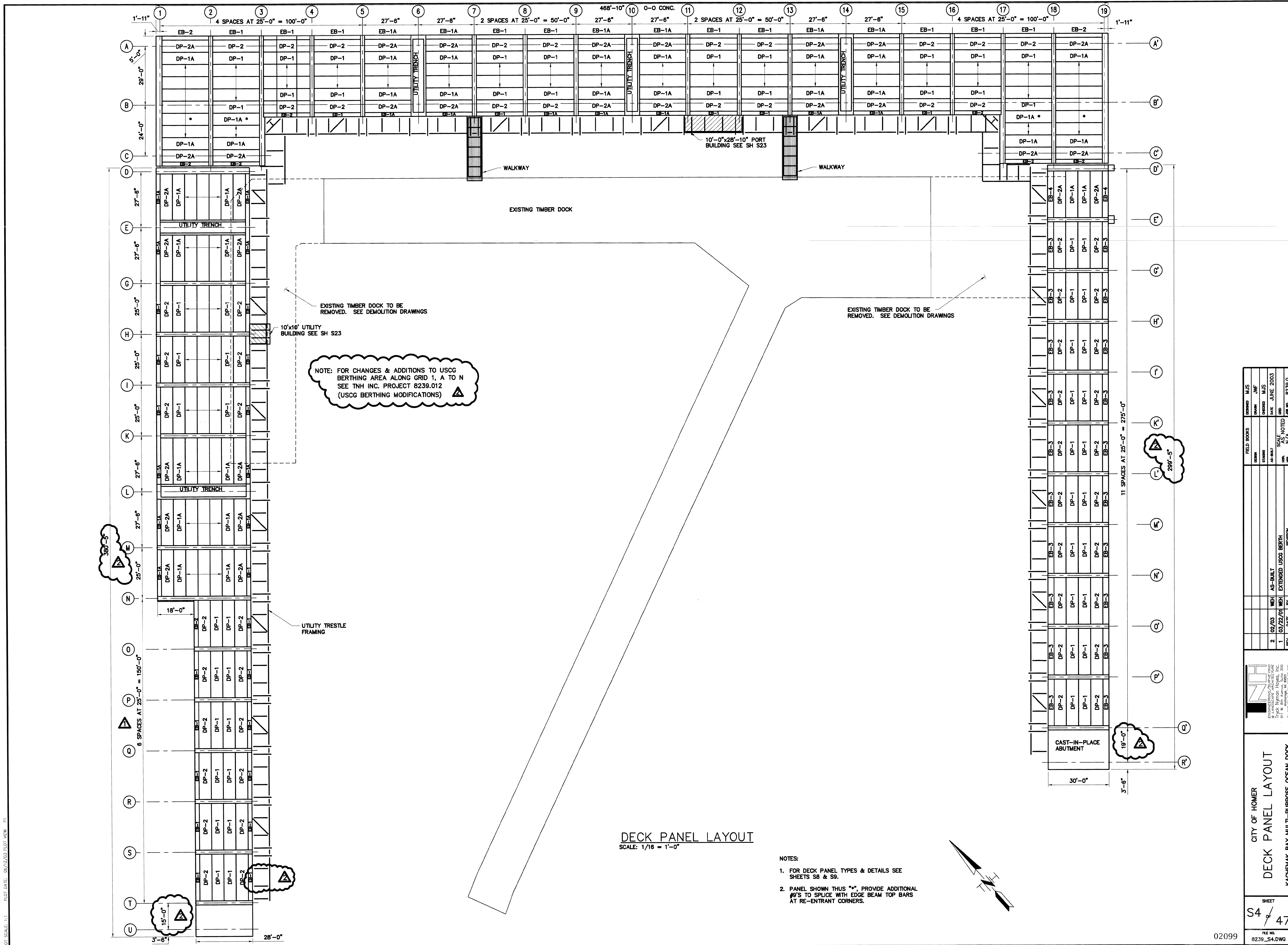
REV	DATE	BY	DESCRIPTION
1	01/22/01	WEH	EXTENDED USCG BERTH

REV	DATE	BY	DESCRIPTION
1	01/22/01	WEH	EXTENDED USCG BERTH

SHEET  
S3 / 47  
FILE NO.  
8239\_S3.DWG

02098





DECK PANEL LAYOUT  
SCALE: 1/16" = 1'-0"

- NOTES:
1. FOR DECK PANEL TYPES & DETAILS SEE SHEETS S8 & S9.
  2. PANEL SHOWN THUS "\*", PROVIDE ADDITIONAL #9'S TO SPLICE WITH EDGE BEAM TOP BARS AT RE-ENTRANT CORNERS.

REV.	DATE	BY	DESCRIPTION
1	03/22/01	MEH	EXTENDED USCG BERTH
2	02/03	MEH	AS-BUILT

FIELD BOOKS	DESIGNED	CHECKED	DATE	SCALE	NOTED
	MJS	JMF	JUNE 2003		
	SWH	SWH			

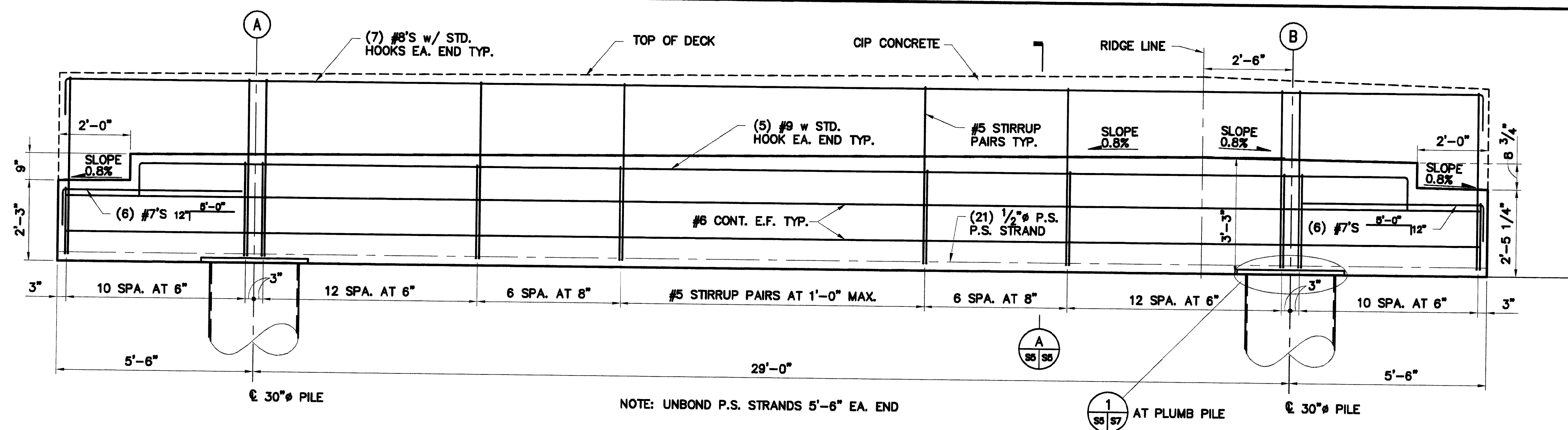
  

REVISION	DATE	BY

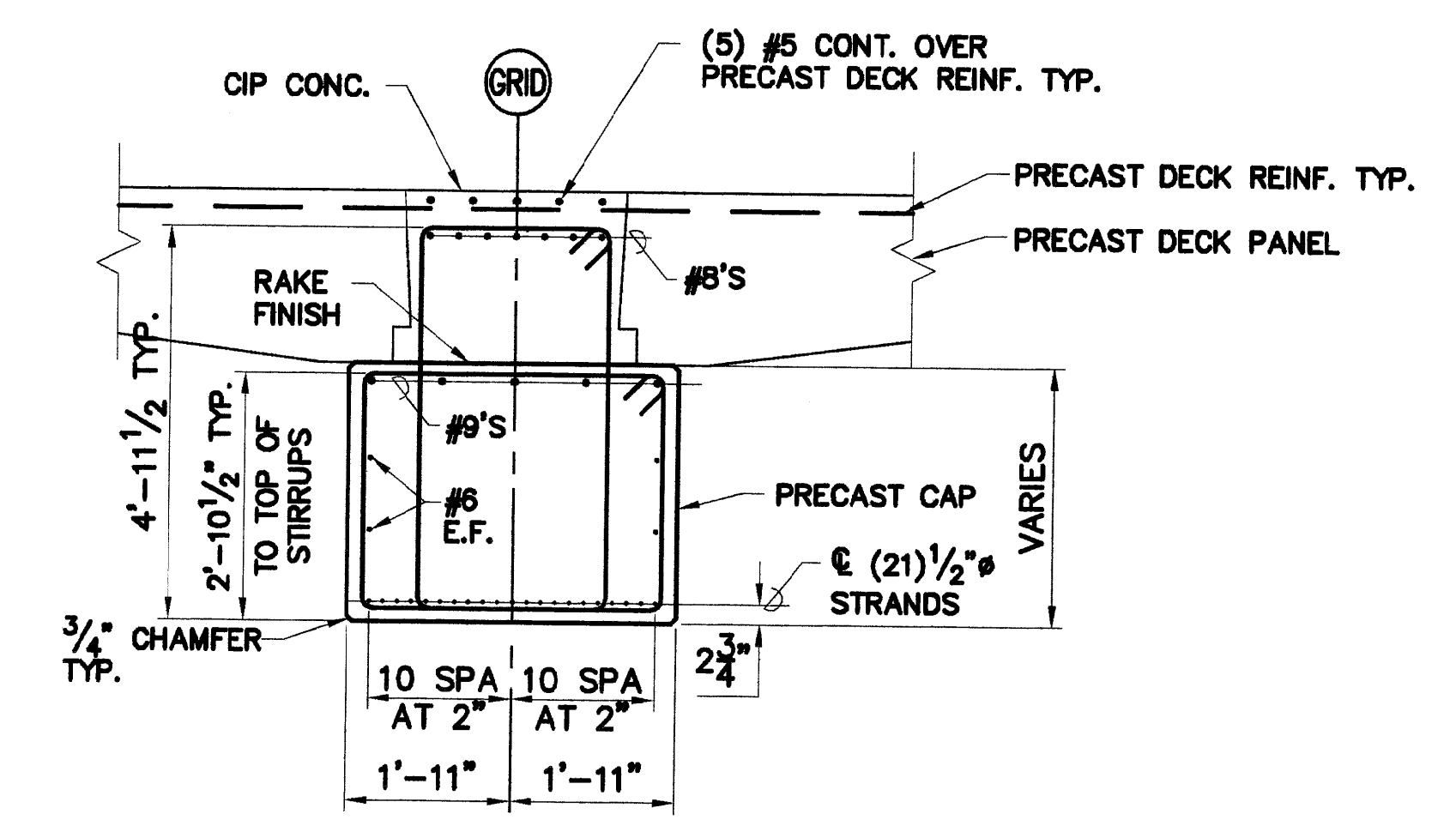
CITY OF HOMER  
DECK PANEL LAYOUT  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
S4 OF 47  
REV. NO.  
8239\_S4.0

02099

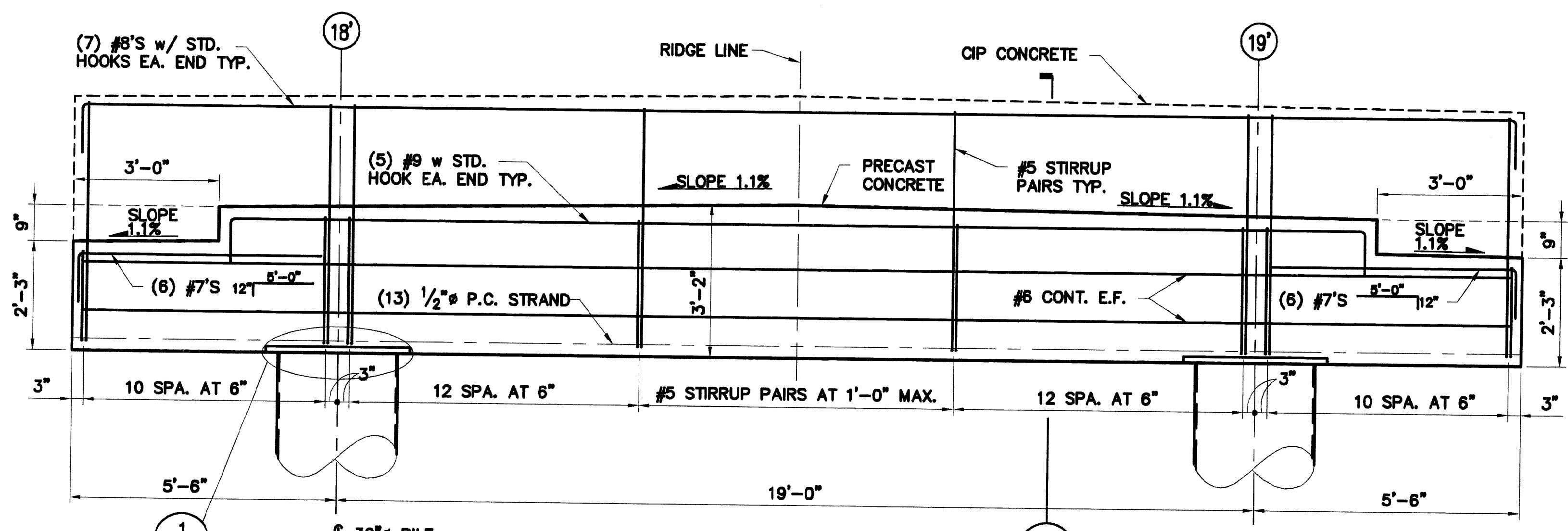


**1 PILE CAP A**  
SCALE: 1/2" = 1'-0"

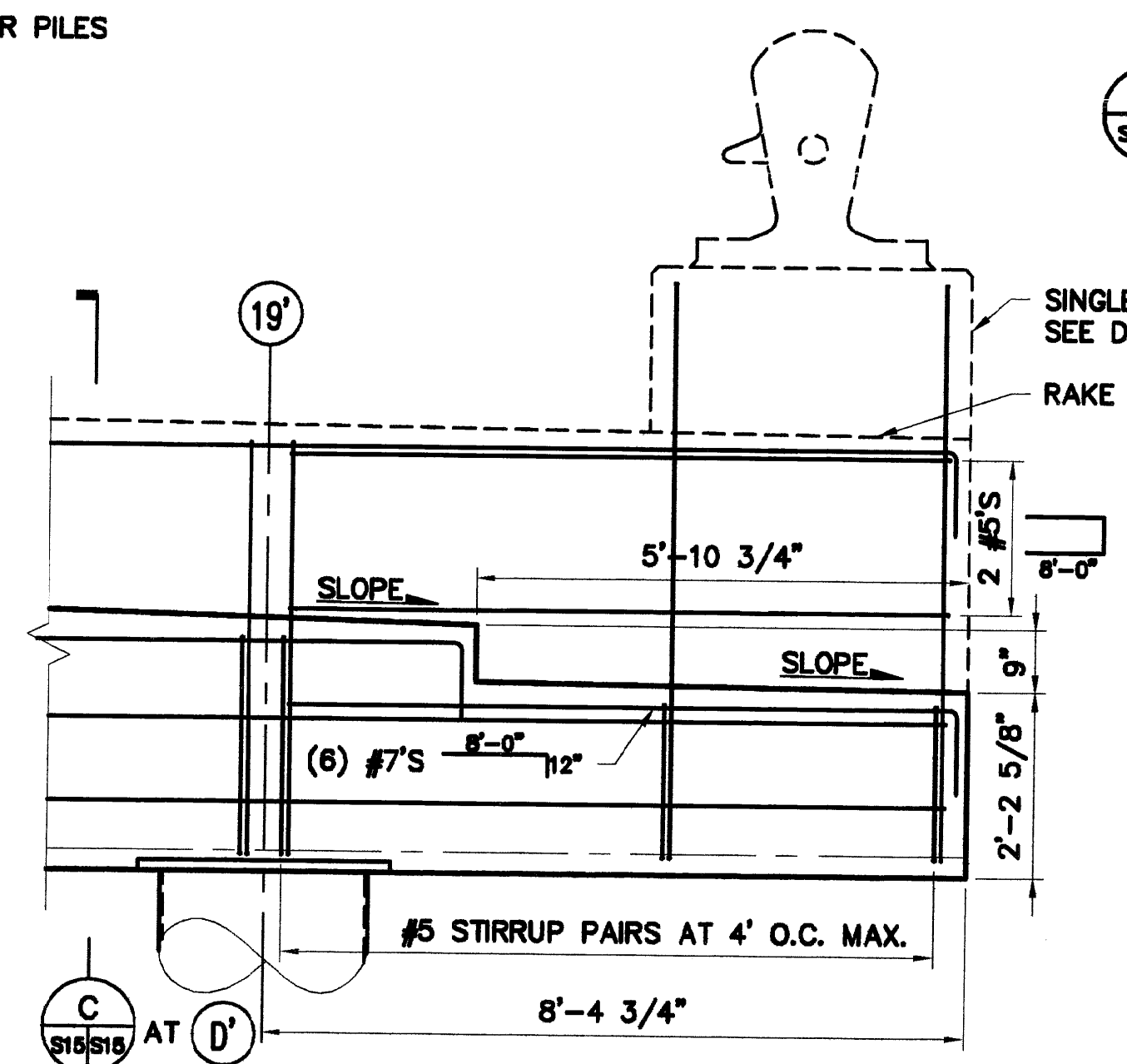


**A CAP A SECTION**  
SCALE: 1/2" = 1'-0"

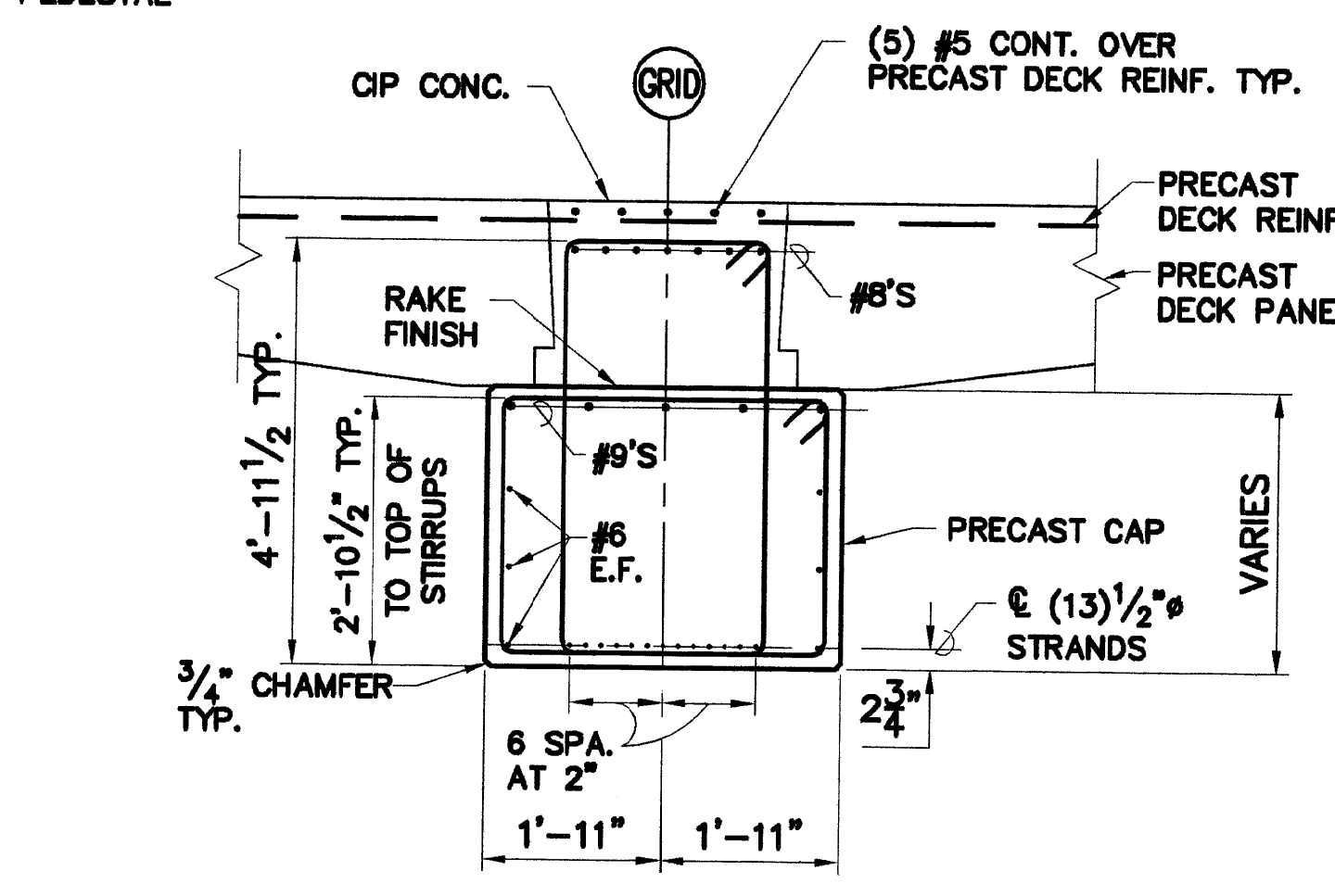
NOTE: PROVIDE TROWEL FINISH UNDER DECK PANEL BEARING. PROVIDE RAKE FINISH AT CIP INTERFACE, TYP. ALL CAPS.



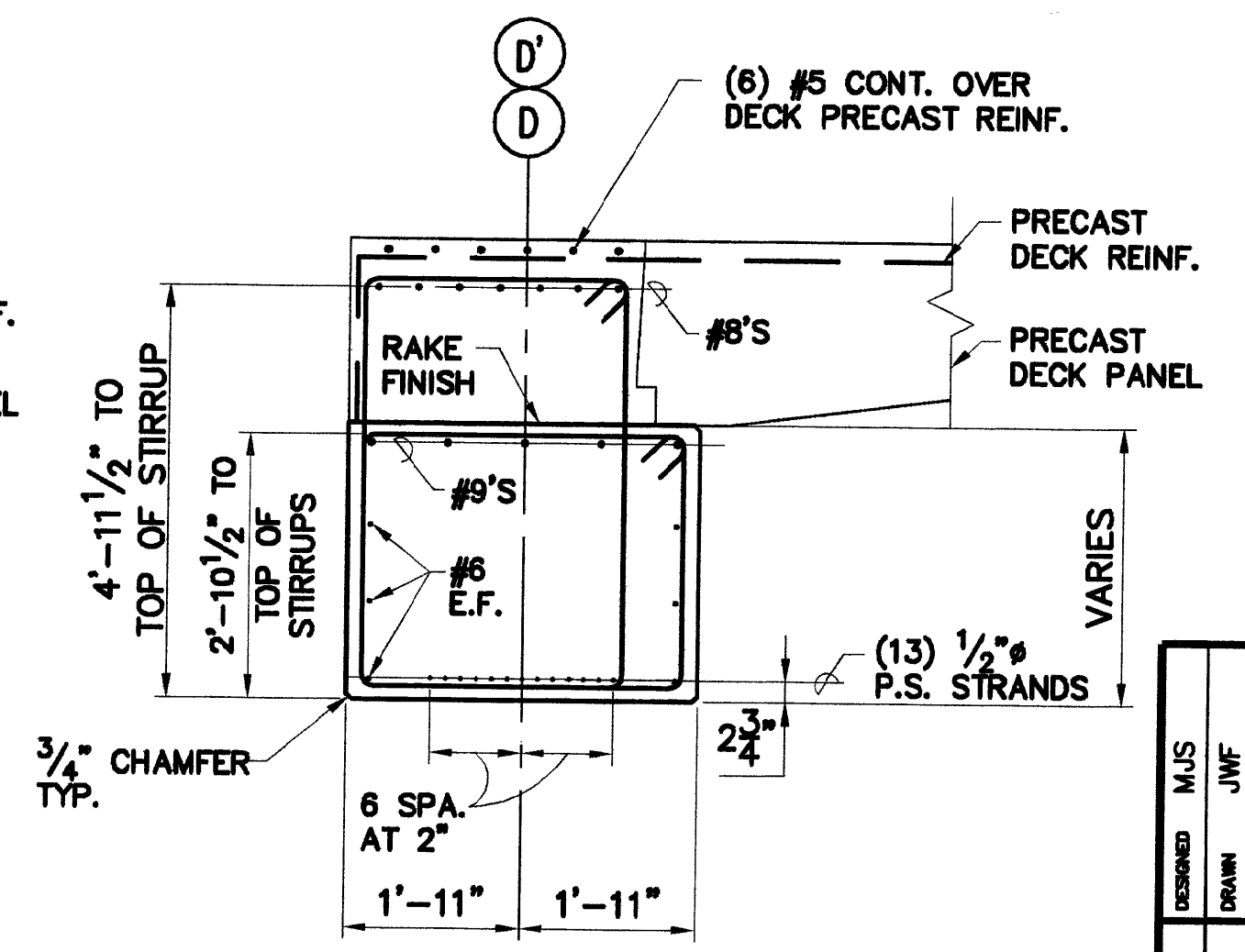
**2 PILE CAP B+B'**  
SCALE: 1/2" = 1'-0"



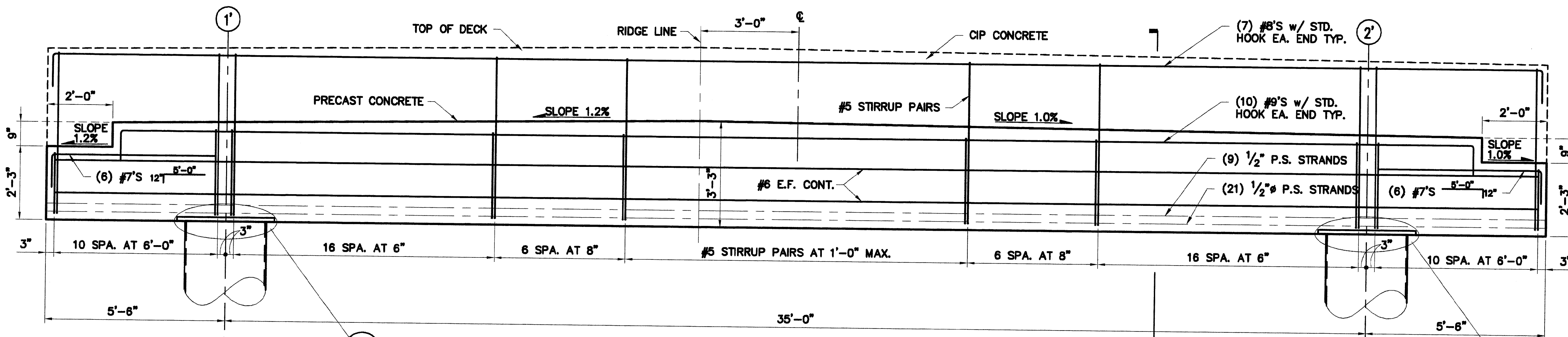
**3 PILE CAP B' AND AT GRID D**  
SCALE: 1/2" = 1'-0"



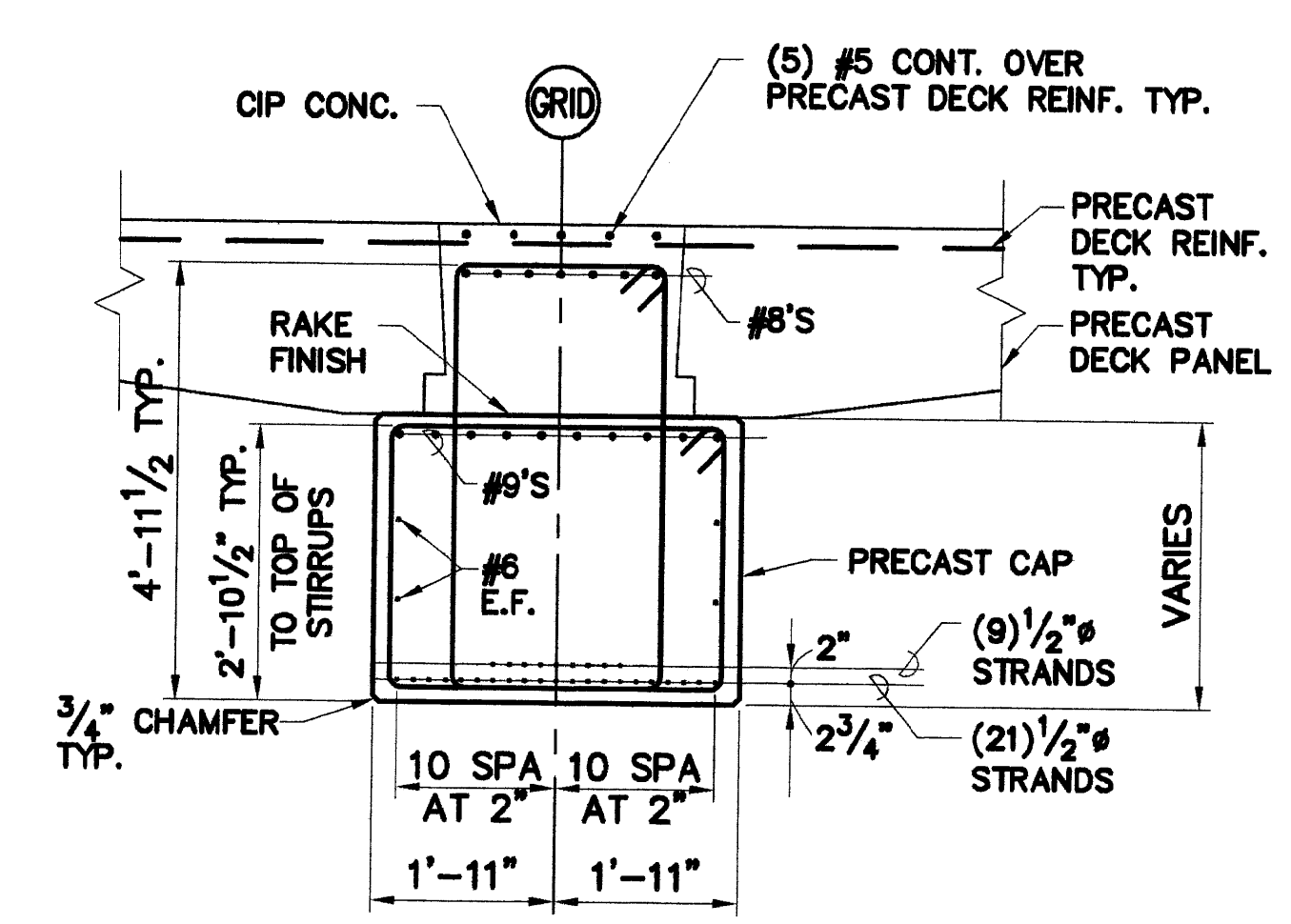
**B CAP B SECTION**  
SCALE: 1/2" = 1'-0"



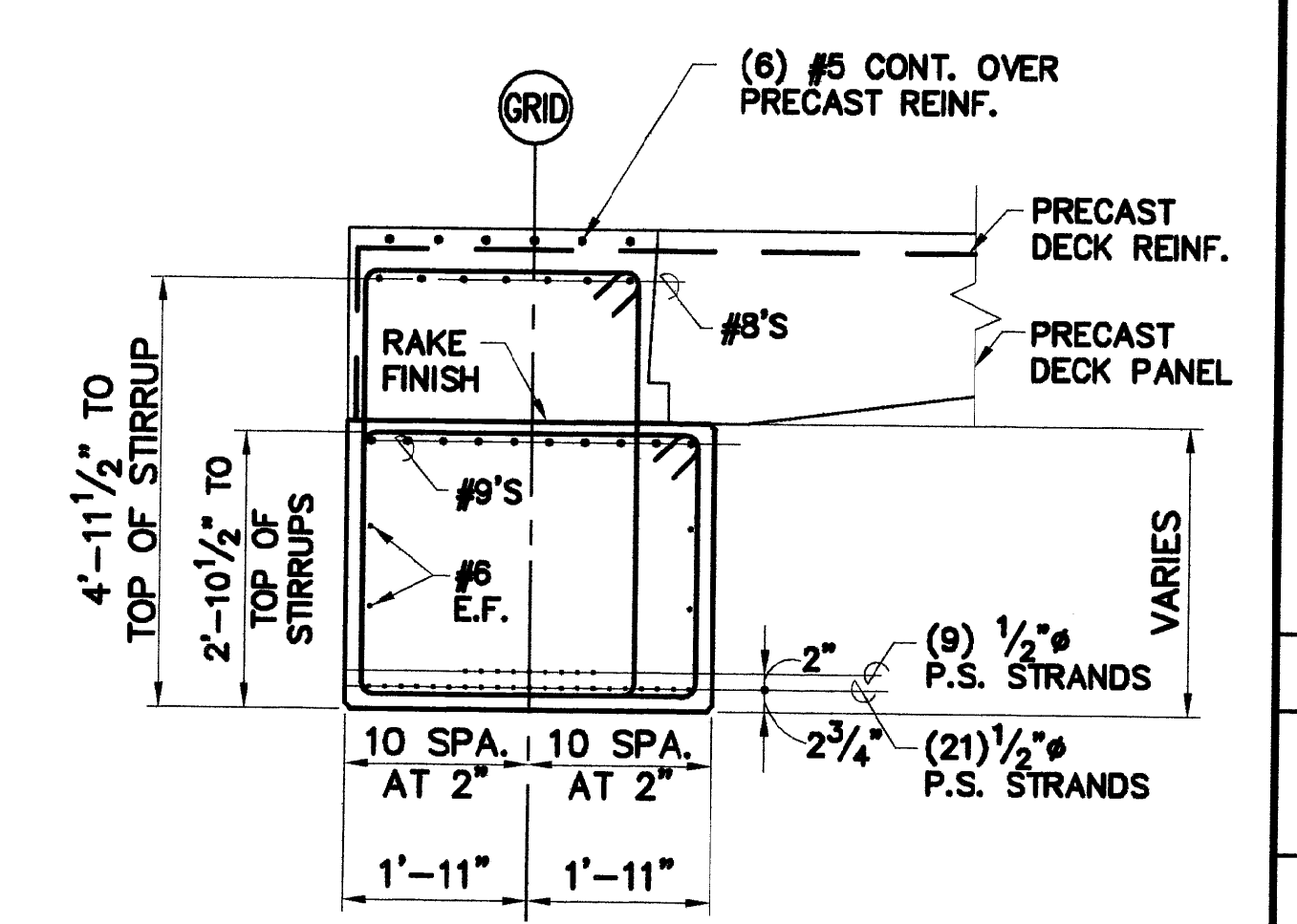
**C CAP B' SECTION**  
SCALE: 1/2" = 1'-0"



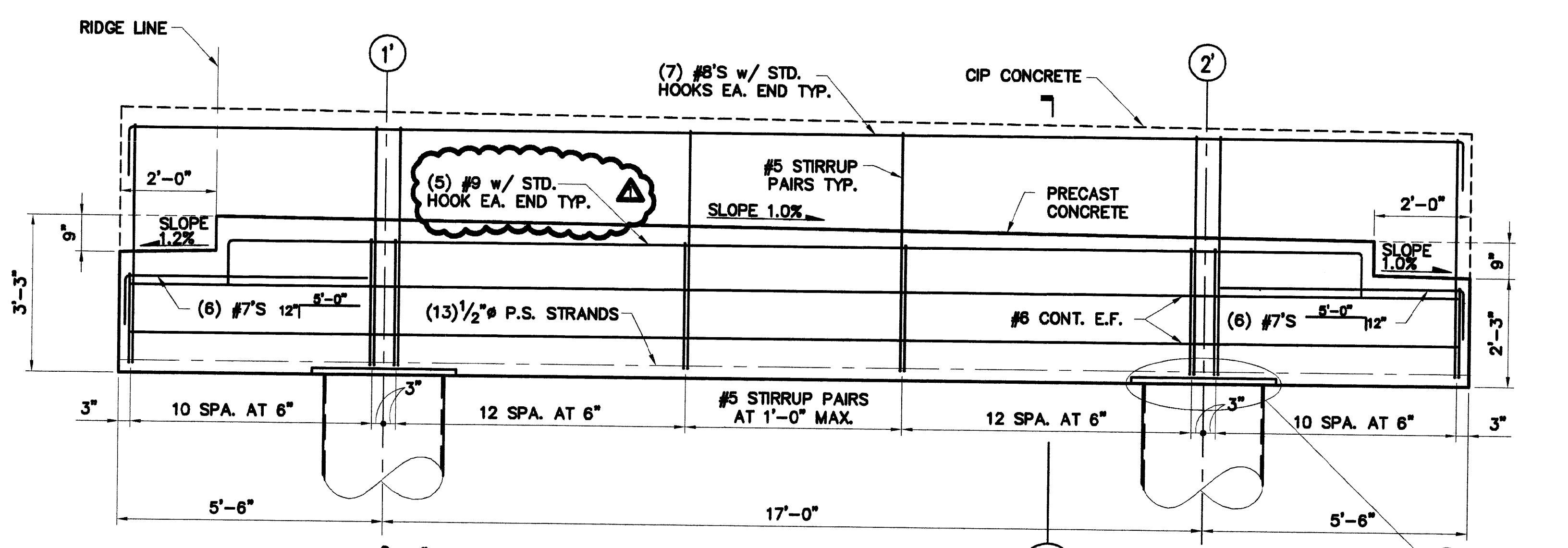
**4 PILE CAP C+C'**  
SCALE: 1/2" = 1'-0"



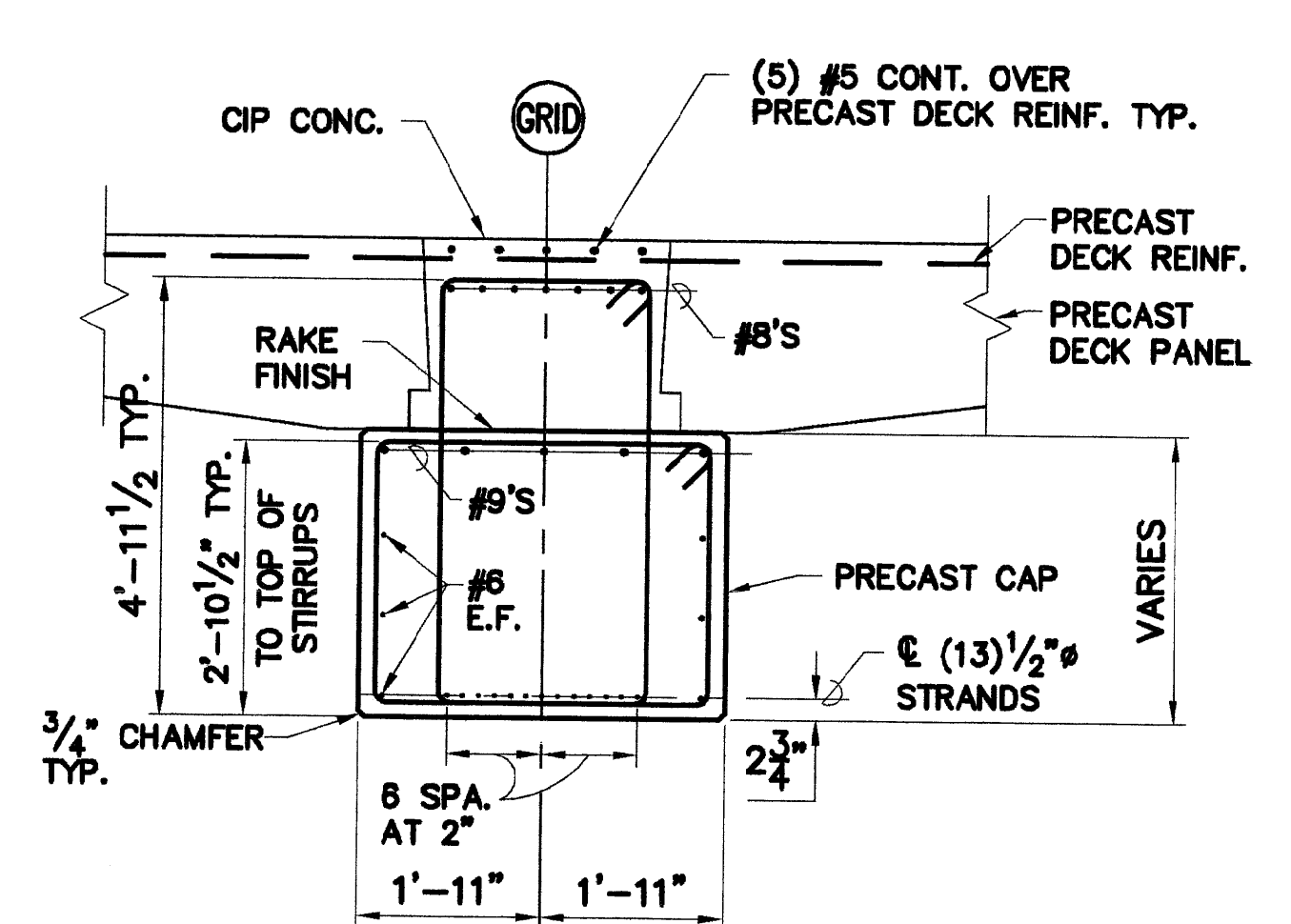
**D CAP C SECTION**  
SCALE: 1/2" = 1'-0"



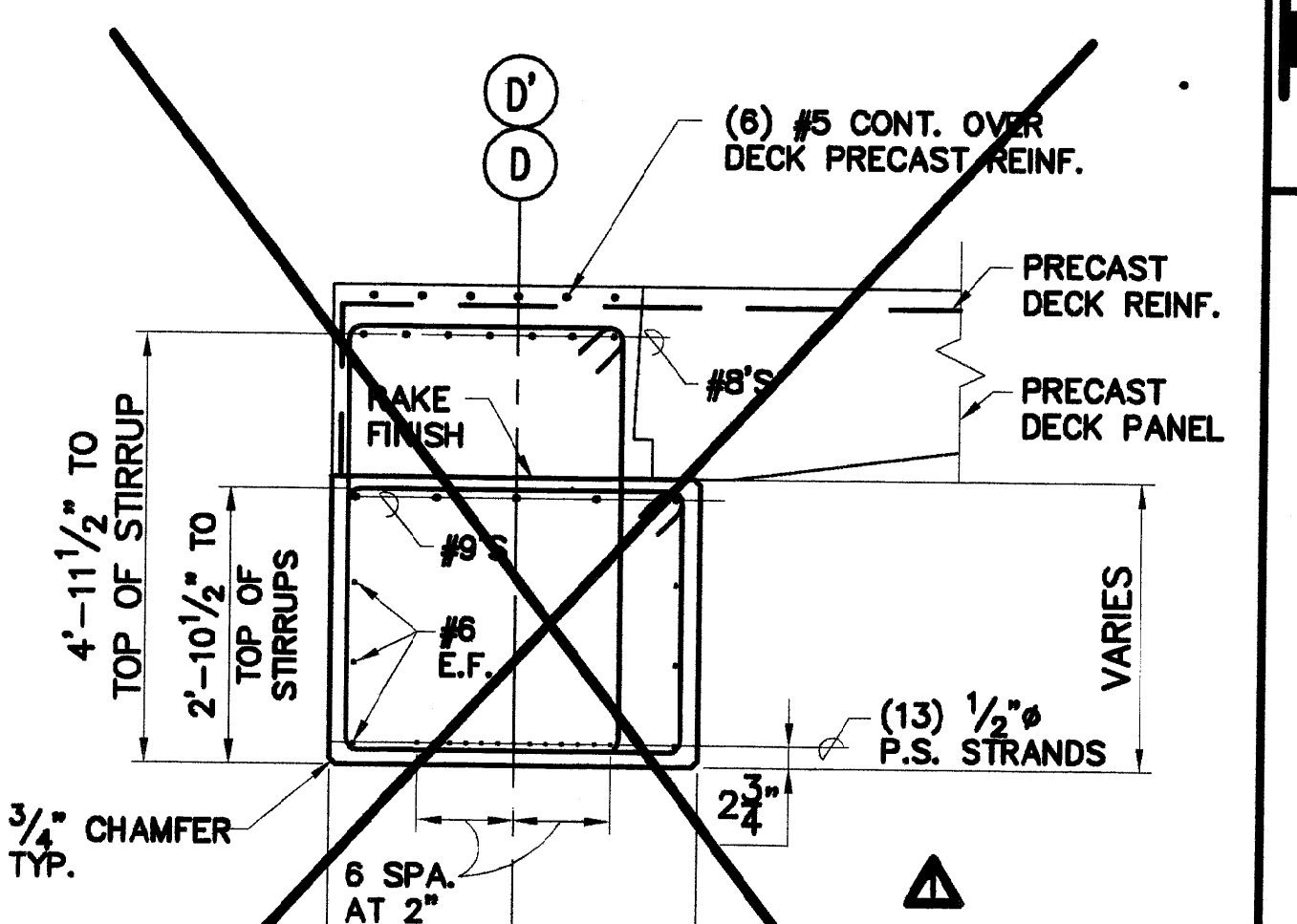
**E CAP C' SECTION**  
SCALE: 1/2" = 1'-0"



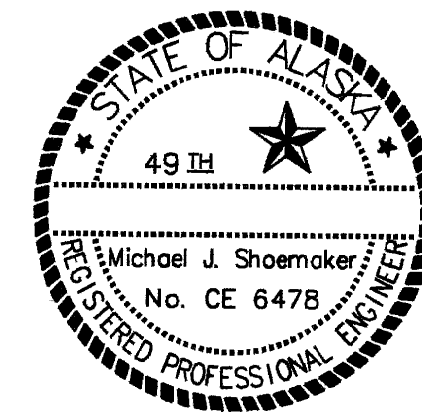
**D PILE CAP D-D**  
SCALE: 1/2" = 1'-0"



**F CAP D SECTION**  
SCALE: 1/2" = 1'-0"



**G CAP D' SECTION**  
SCALE: 1/2" = 1'-0"

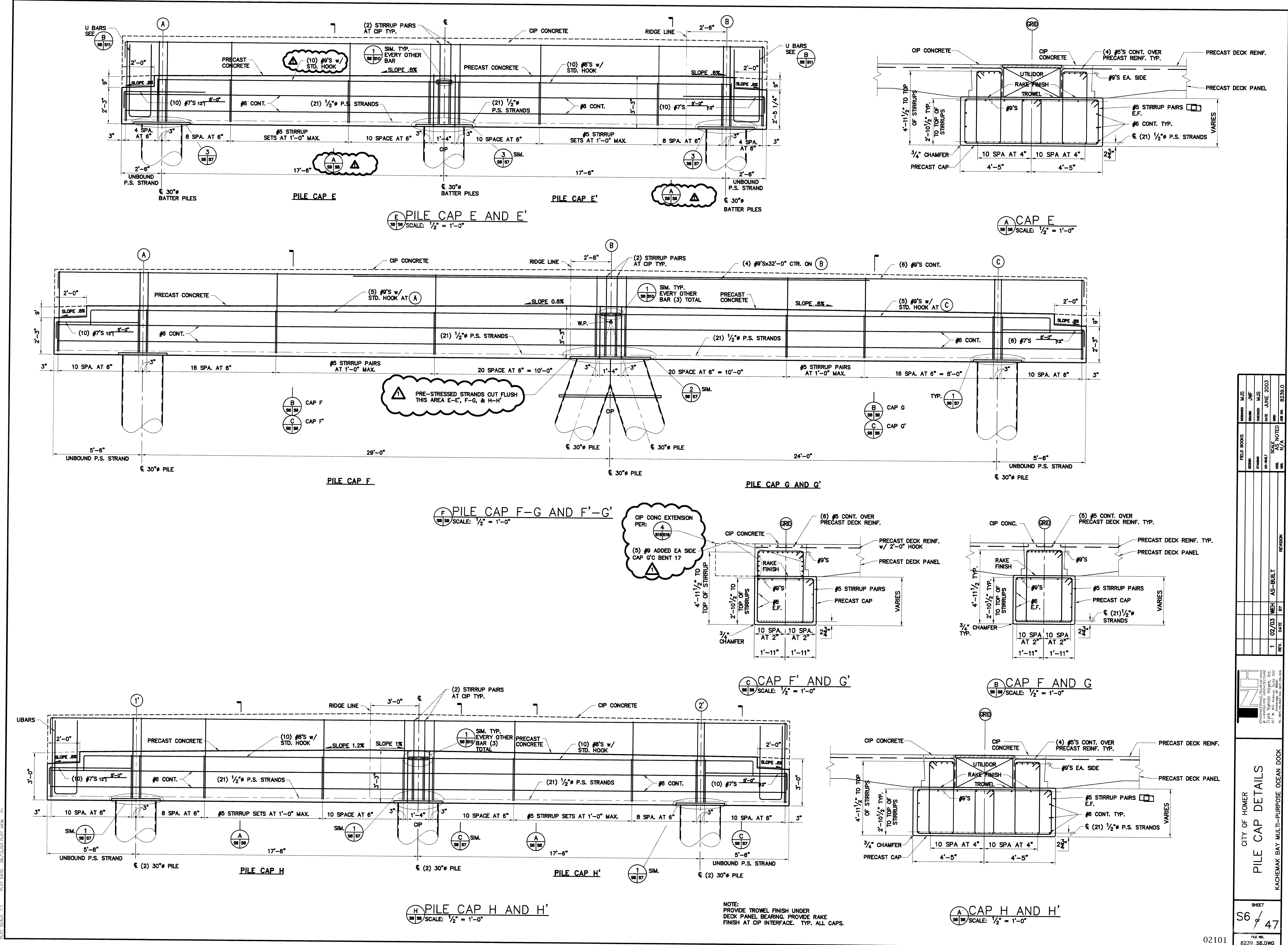


DESIGNED	M.A.S.	DATE	JUNE 2003
DRAWN	J.W.F.	DATE	JUNE 2003
CHECKED	M.A.S.	DATE	JUNE 2003
APPROVED	M.A.S.	DATE	JUNE 2003
SCALE	NOTED	BY	M.A.S.
REV.	BY	DATE	
1	DZ/03	MEH	AS-BUILT
			REVISION

CITY OF HOMER  
PILE CAP DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET 47  
02100  
8239\_SS.DWG





DESIGNED	M.A.S.	DATE	JUNE 2003
DRAWN	J.W.F.	CHECKED	M.A.S.
SCALE	NOTED	BY	N/A
FIELD BOOKS		REV	NO.
REVISION		DATE	
AS-BUILT		DATE	
REV	1	02/03	MEH
BY		DATE	
REWORK			

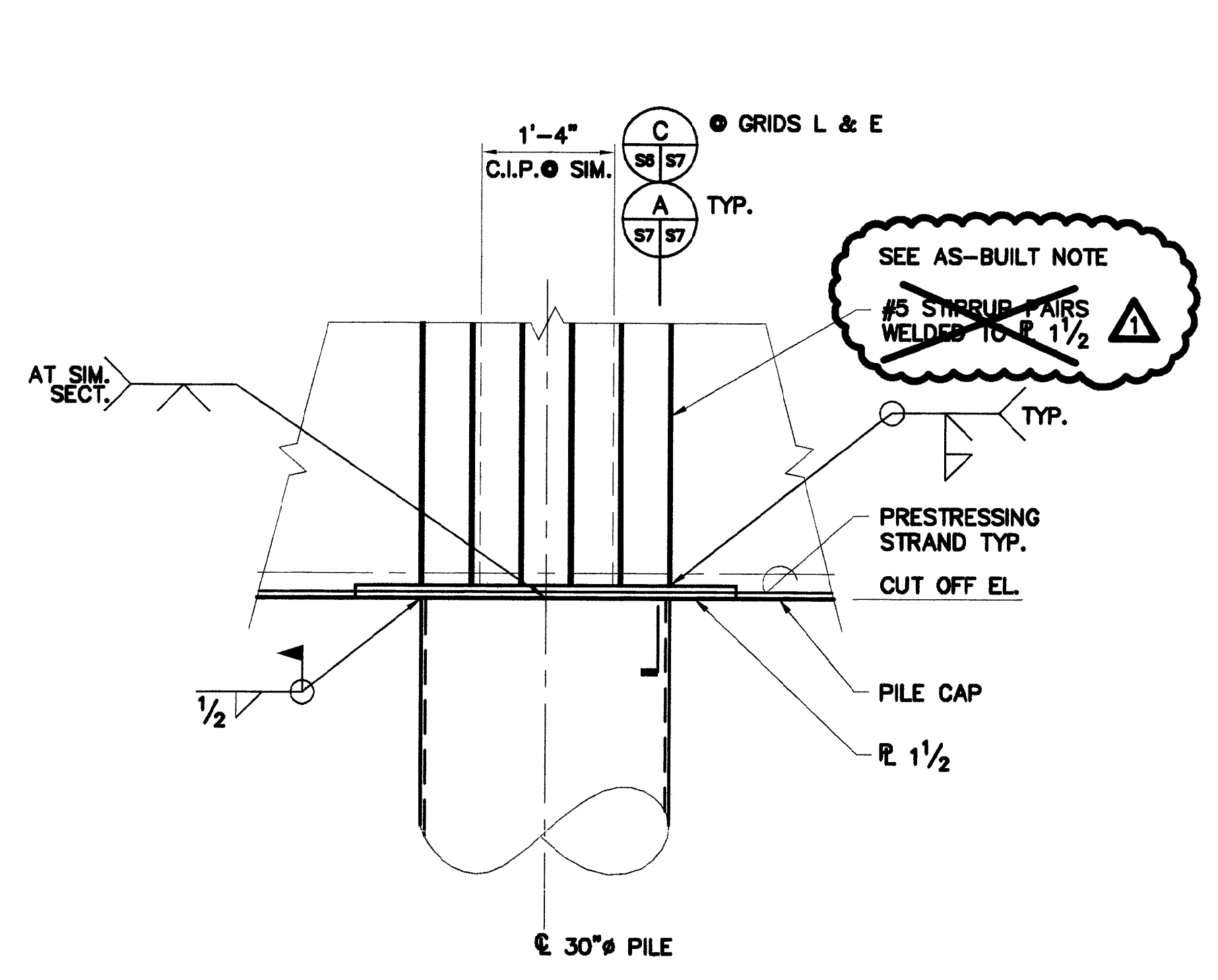
CITY OF HOMER  
 PILE CAP DETAILS  
 KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
 S6 / 47

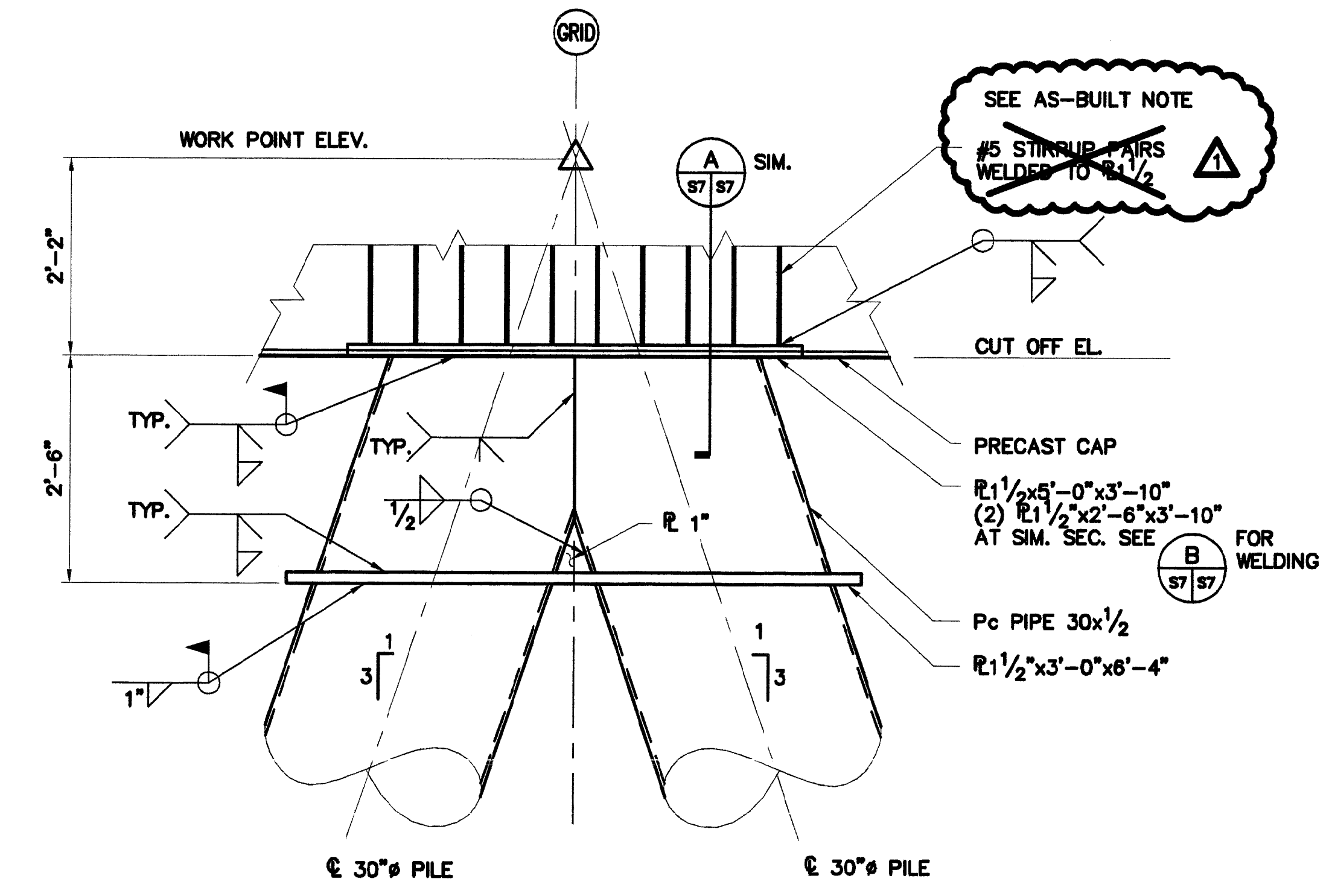
FILE NO.  
 8239\_S6.DWG

PLOT DATE: 05/12/03 PLOT VIEW: P1  
 PLOT SCALE: 1:1

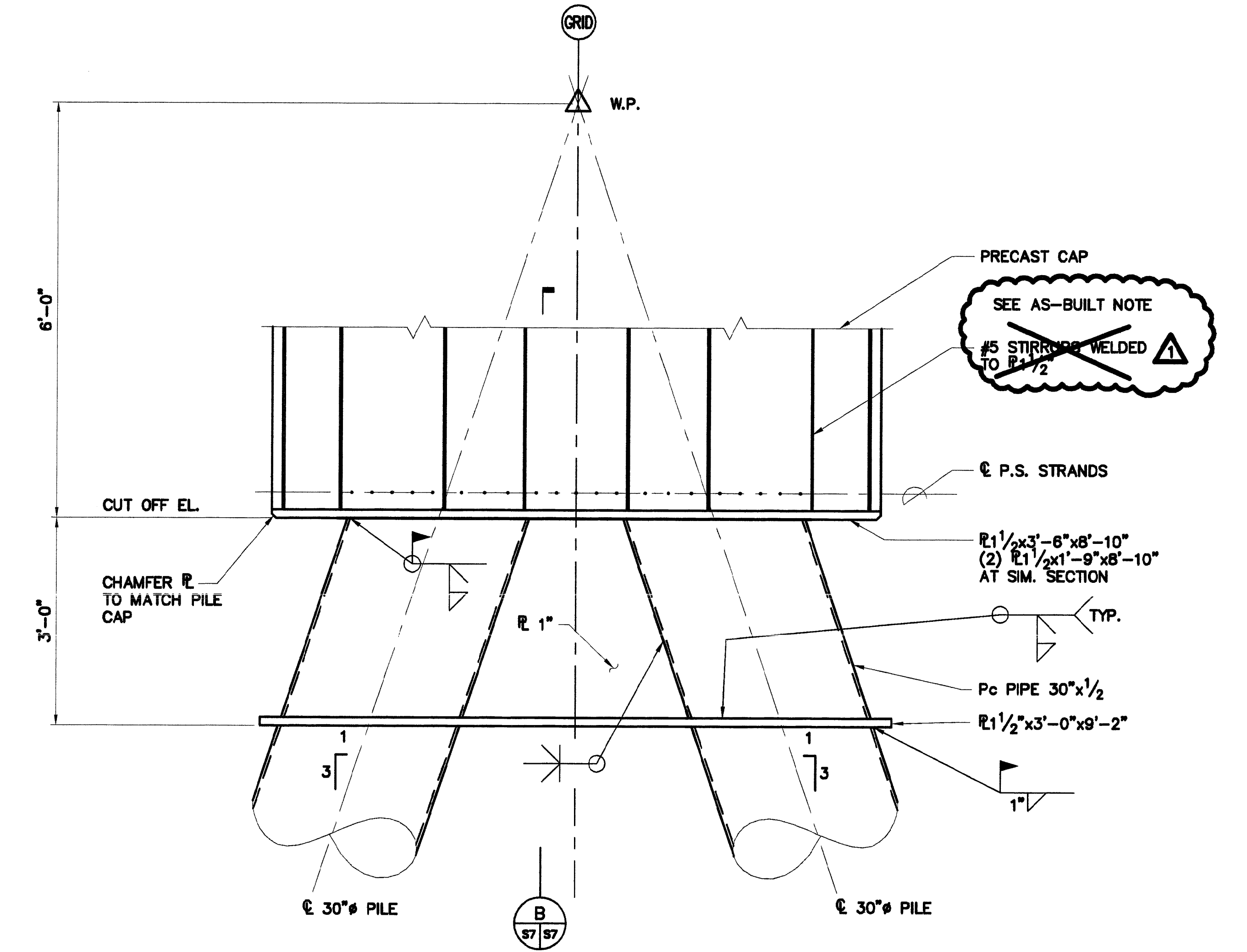




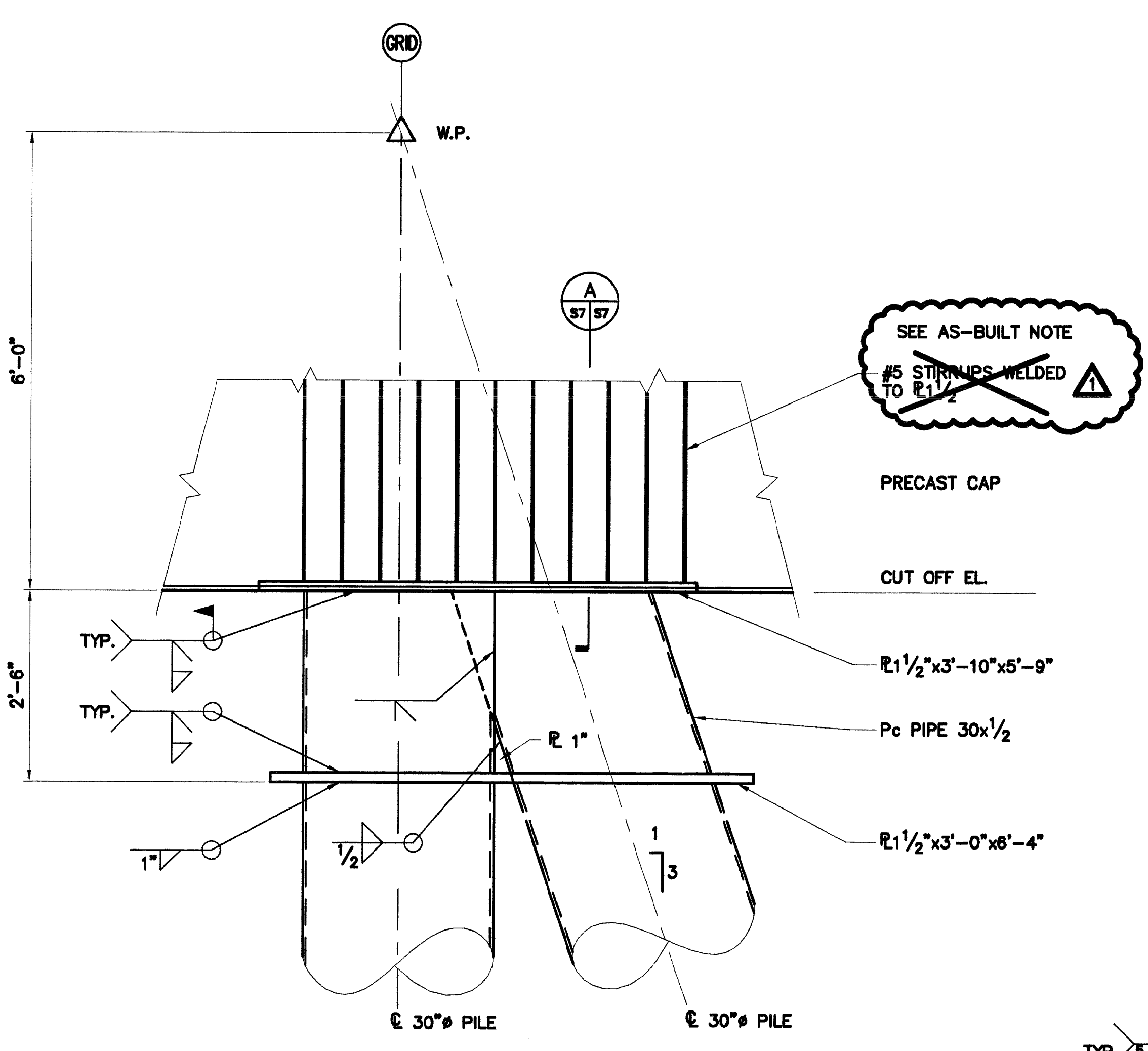
1 DETAIL  
88/97 SCALE: 3/4" = 1'-0"



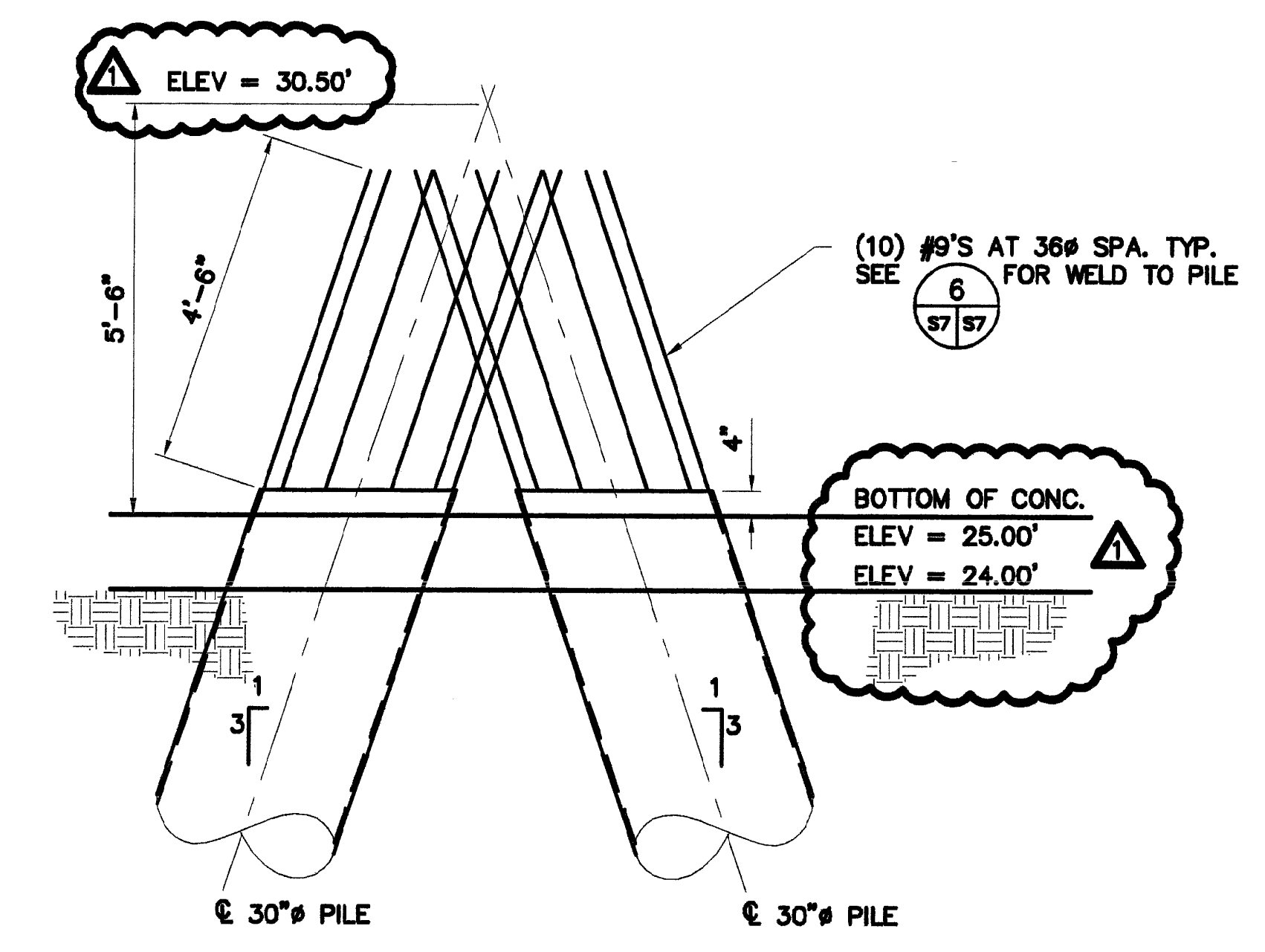
2 DETAIL  
88/97 SCALE: 3/4" = 1'-0"



3 DETAIL  
88/97 SCALE: 3/4" = 1'-0"

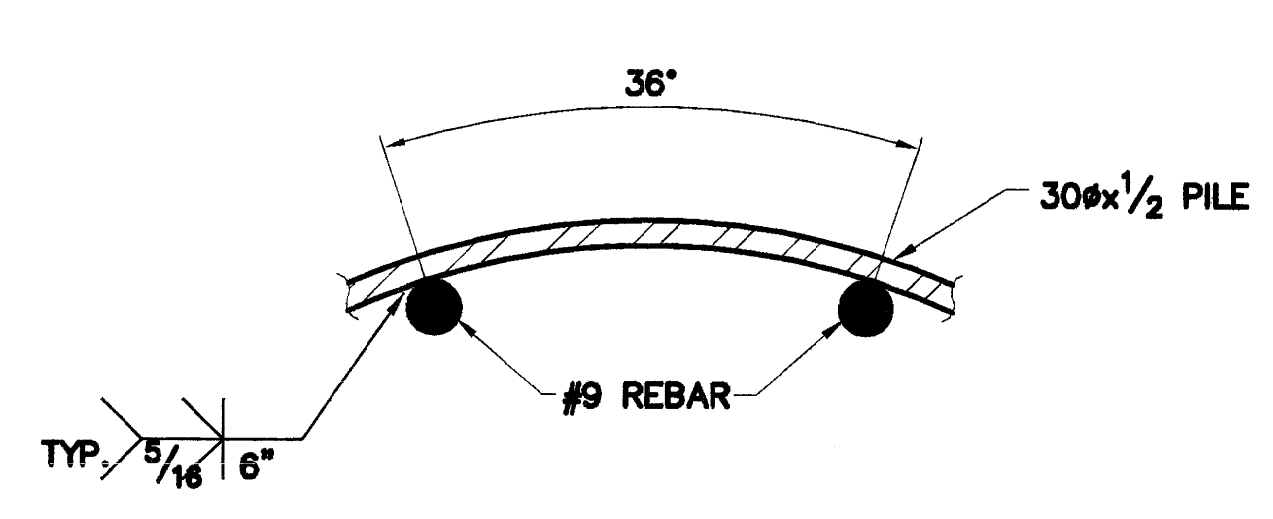


4 DETAIL  
88/97 SCALE: 3/4" = 1'-0"

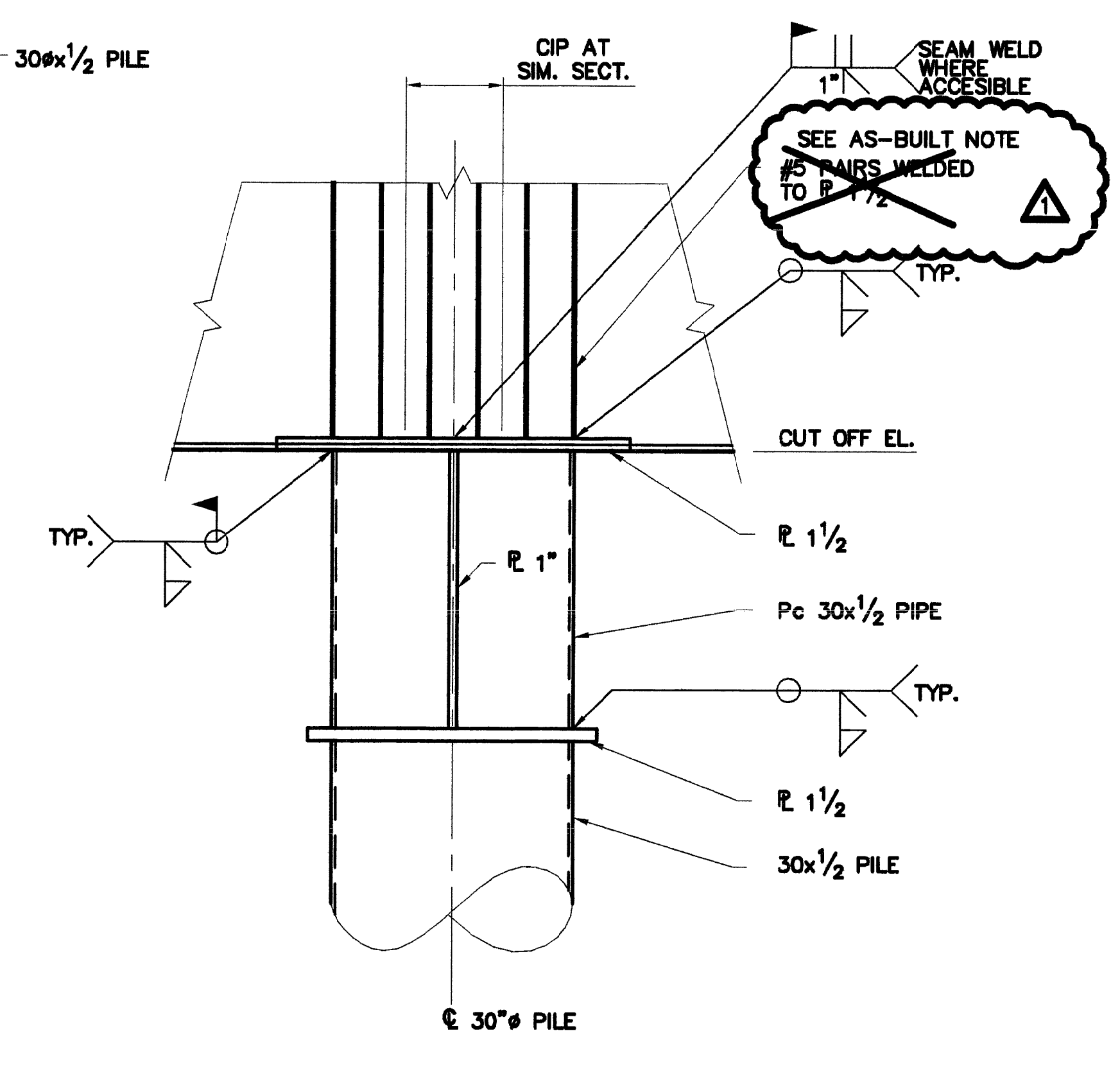


5 DETAIL  
88/97 SCALE: 1/2" = 1'-0"

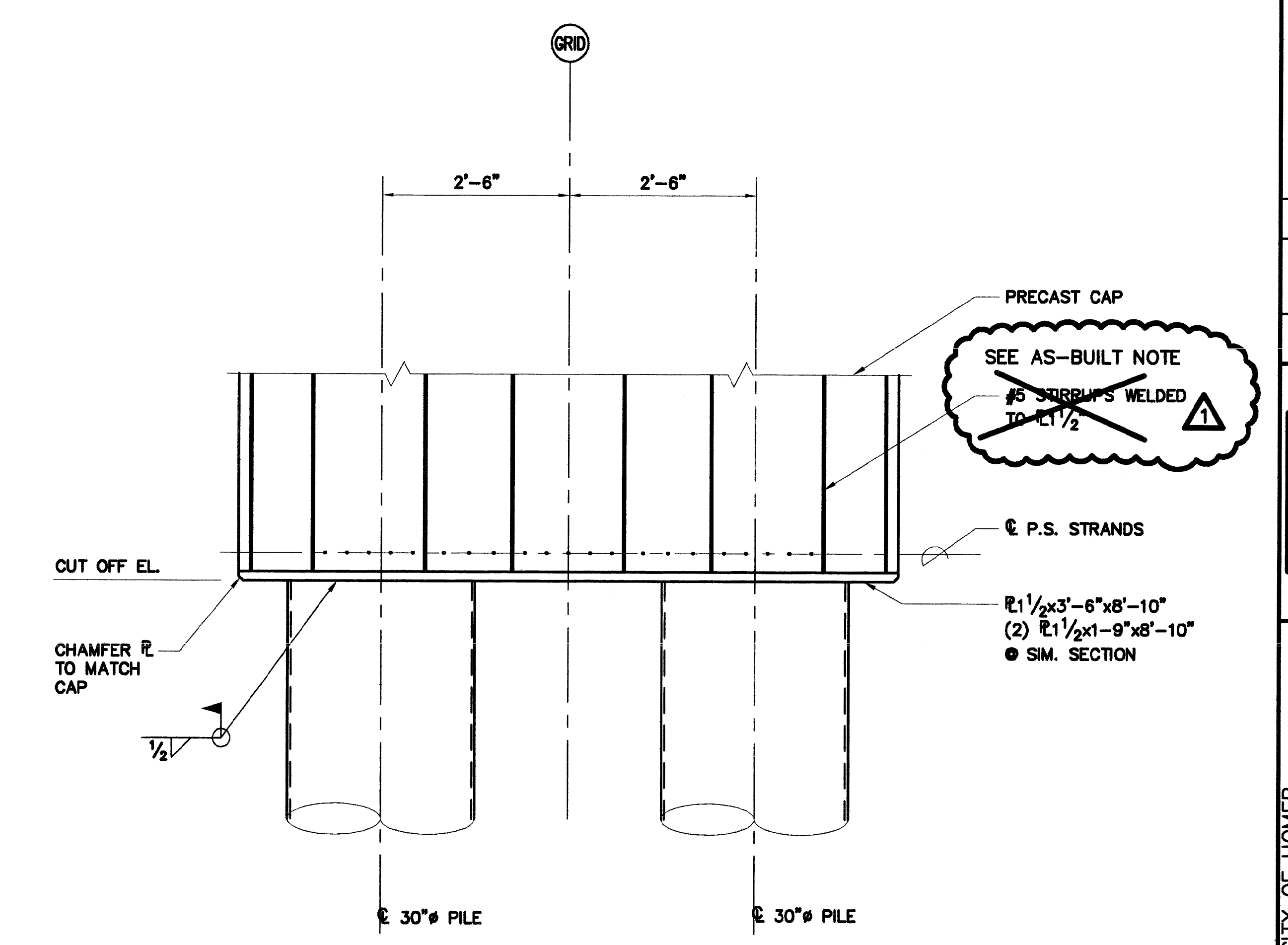
AS-BUILT NOTE: OBA BARS USED IN LIEU OF WELDING STIRRUPS TO PLATE. (TYPICAL)



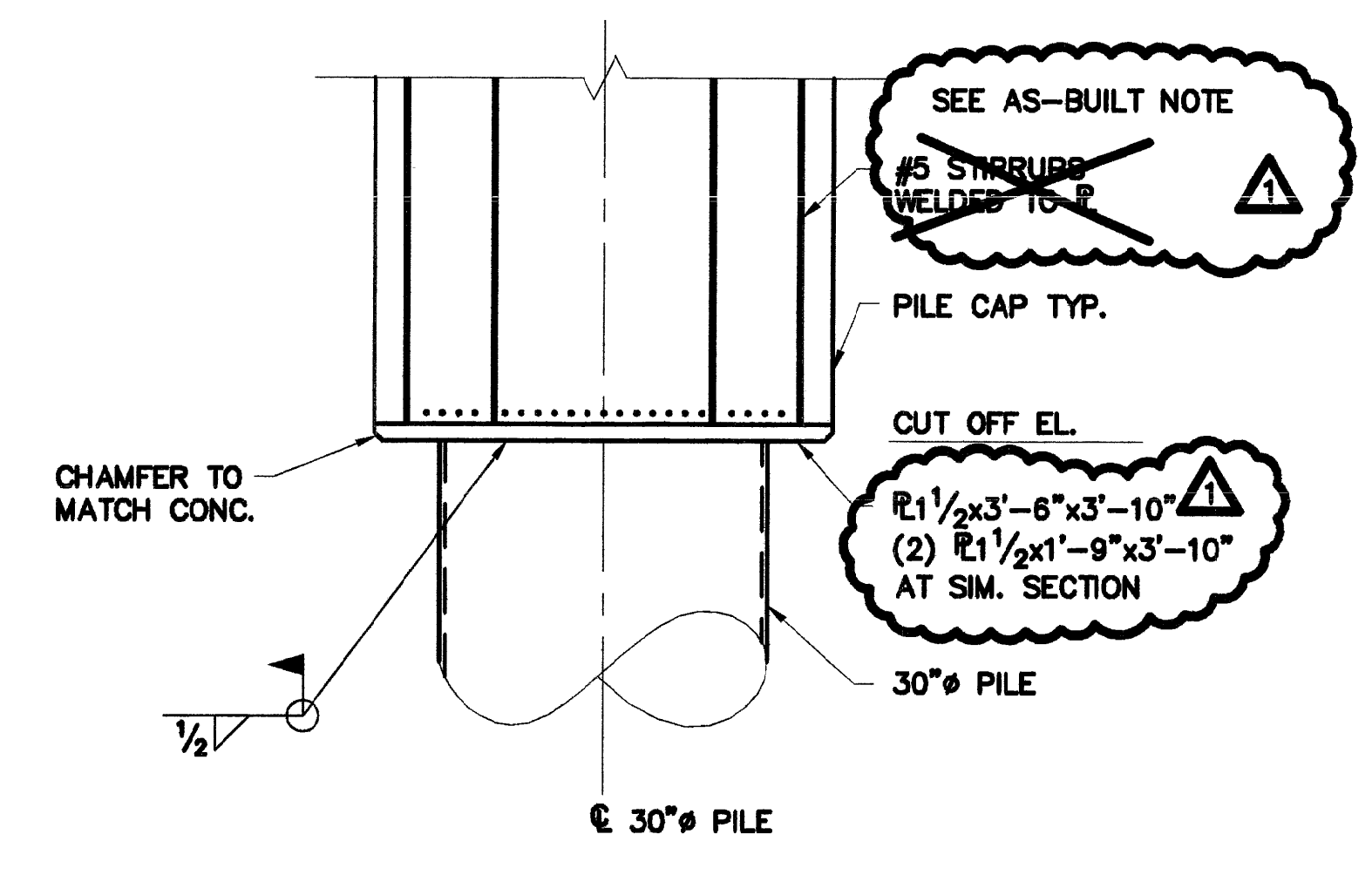
6 DETAIL  
87/97 SCALE: 3" = 1'-0"



A SECTION  
87/97 SCALE: 3/4" = 1'-0"



B SECTION  
88/97 SCALE: 3/4" = 1'-0"



C SECTION  
87/97 SCALE: 3/4" = 1'-0"

REV.	DATE	BY	CHK	REVISION
1	02/03	MEH	BY	AS-BUILT

NO.	DATE	BY	CHK	REVISION
1	02/03	MEH	BY	AS-BUILT

NO.	DATE	BY	CHK	REVISION
1	02/03	MEH	BY	AS-BUILT

NO.	DATE	BY	CHK	REVISION
1	02/03	MEH	BY	AS-BUILT

NO.	DATE	BY	CHK	REVISION
1	02/03	MEH	BY	AS-BUILT

NO.	DATE	BY	CHK	REVISION
1	02/03	MEH	BY	AS-BUILT

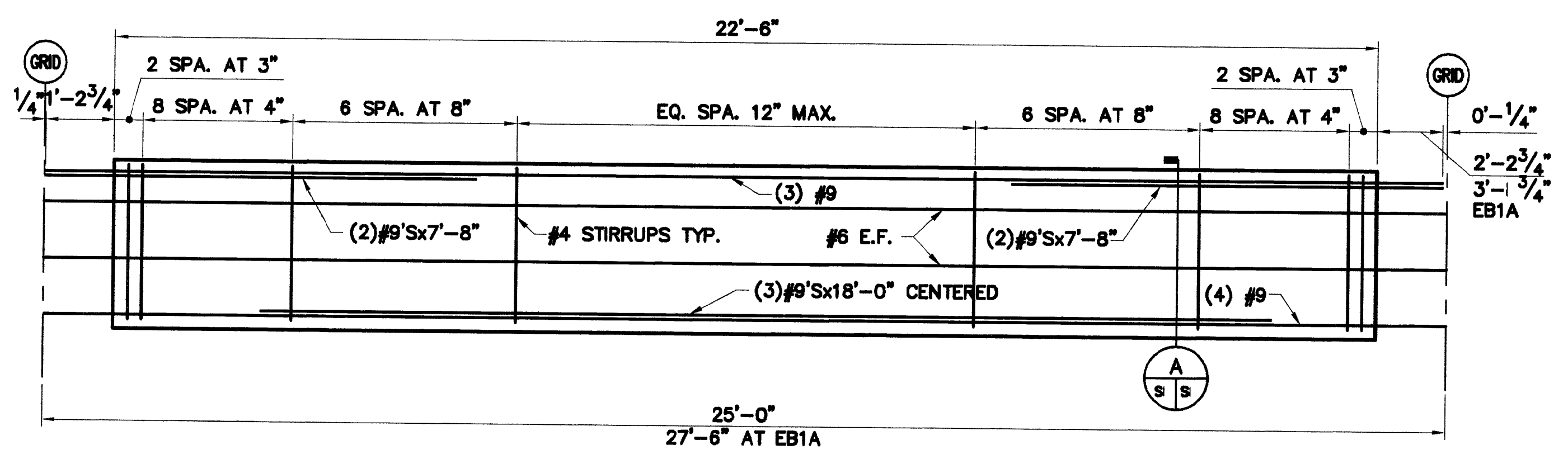
  

NO.	DATE	BY	CHK	REVISION
1	02/03	MEH	BY	AS-BUILT

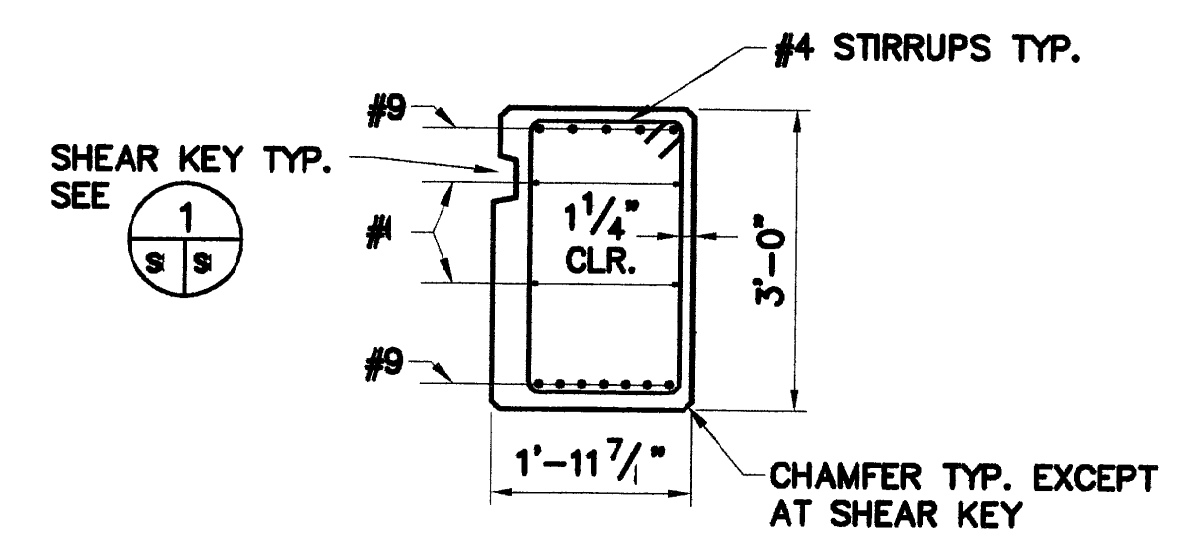
CITY OF HOMER  
PILE CAP  
CONNECTION DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK



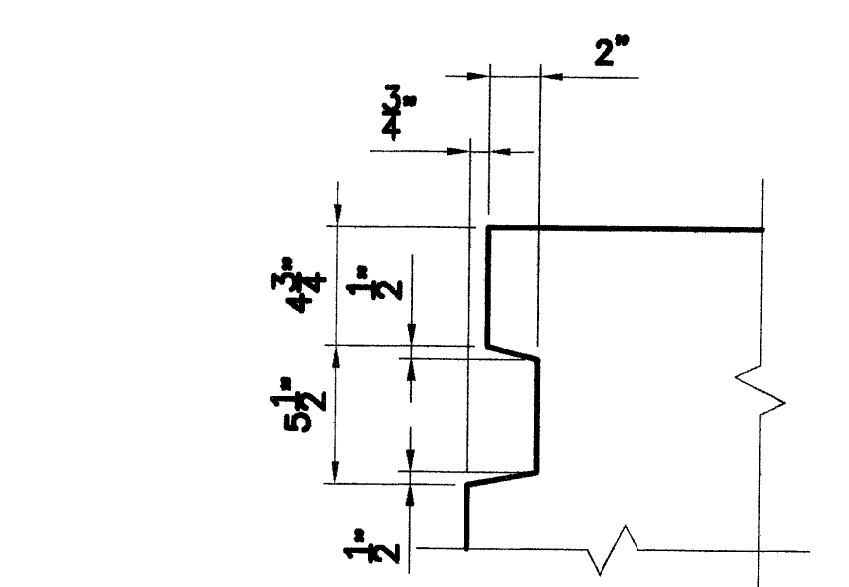
SHEET  
S7 / 47  
8239\_S7.DWG



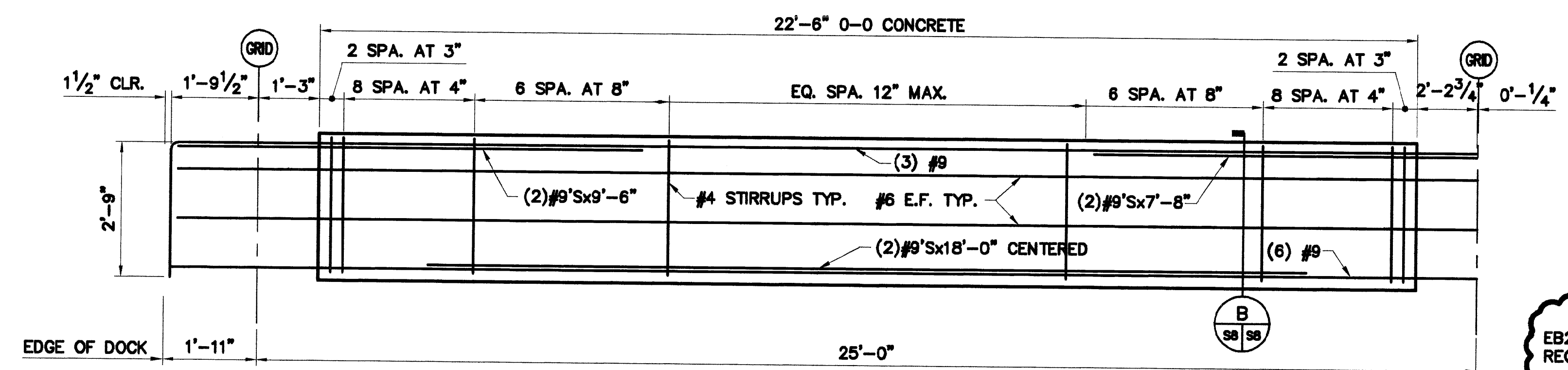
1 EB1 AND EB1A  
SCALE: 1/2" = 1'-0"



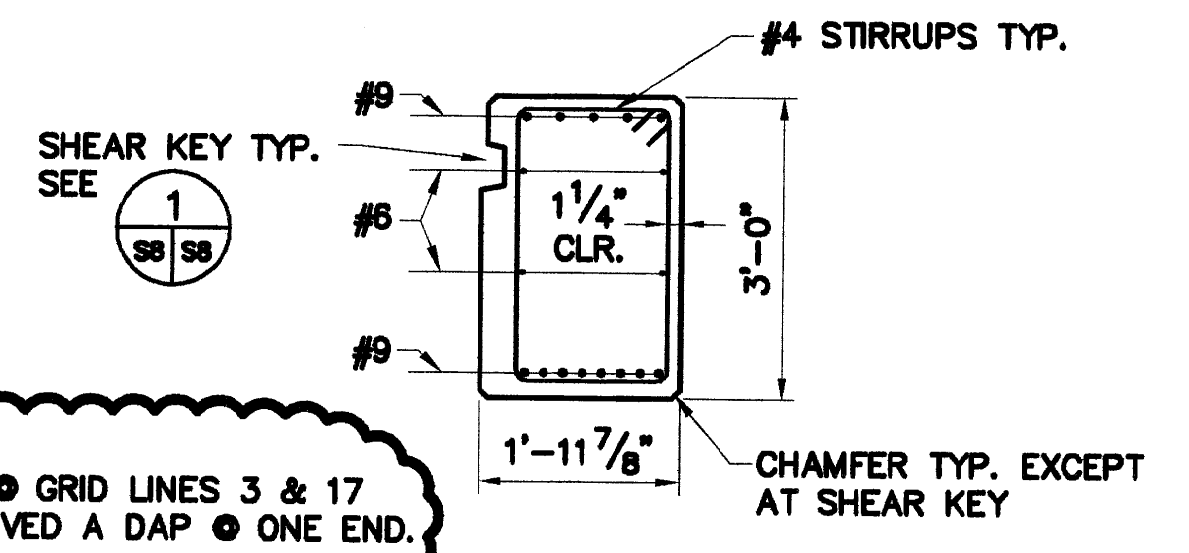
A EB1 AND EB1A SECTION  
SCALE: 1/2" = 1'-0"



1 SHEAR KEY DETAIL  
SCALE: 1/2" = 1'-0"

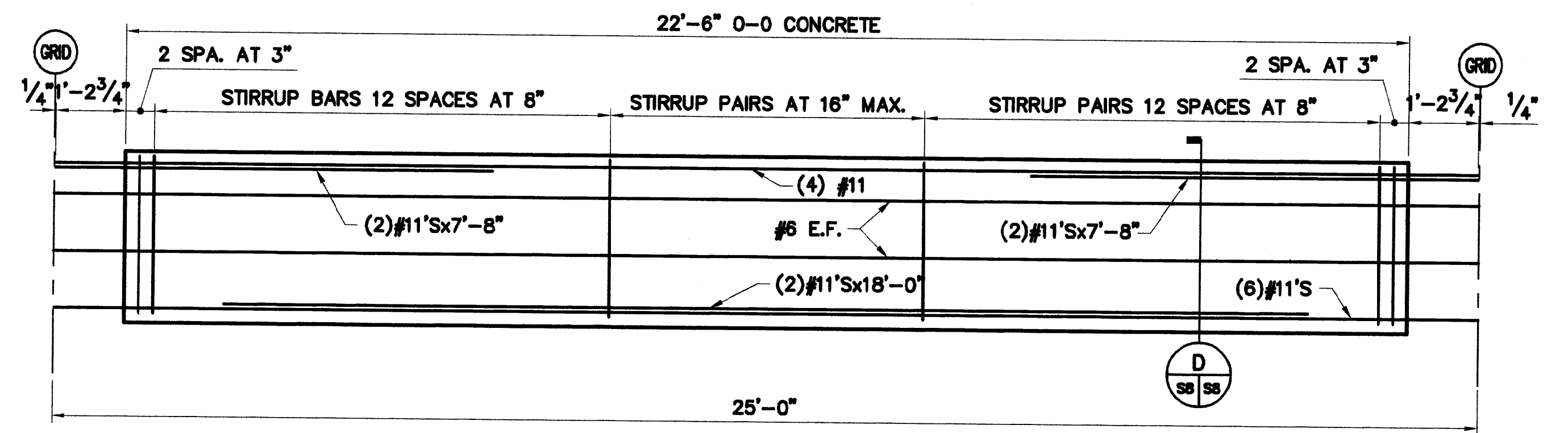


2 EB2 ELEVATION  
SCALE: 1/2" = 1'-0"

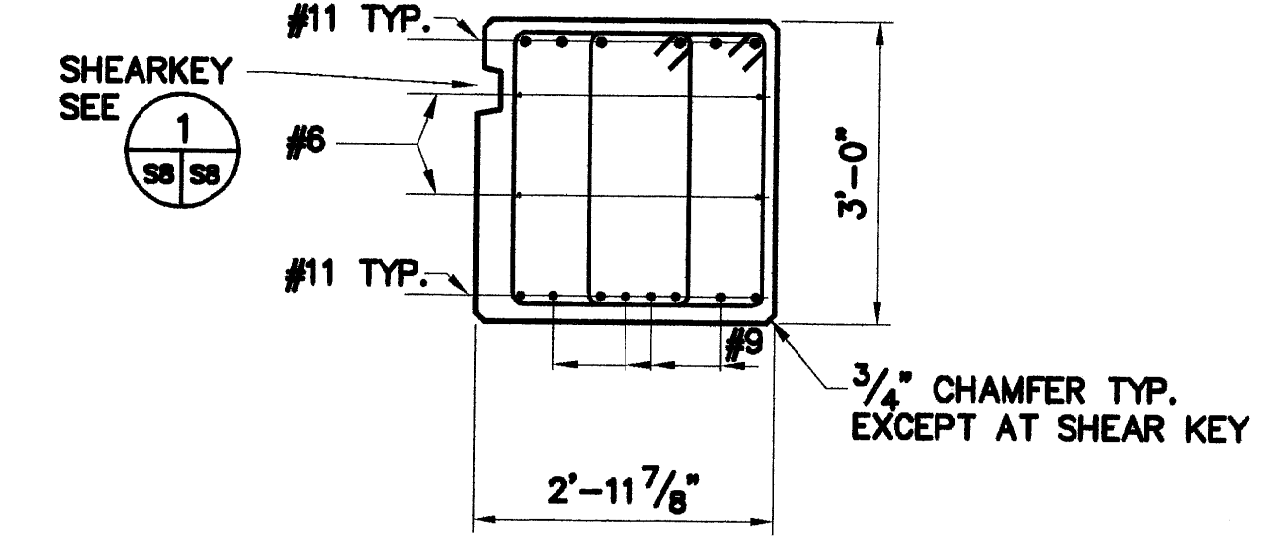


B EB2 SECTION  
SCALE: 1/2" = 1'-0"

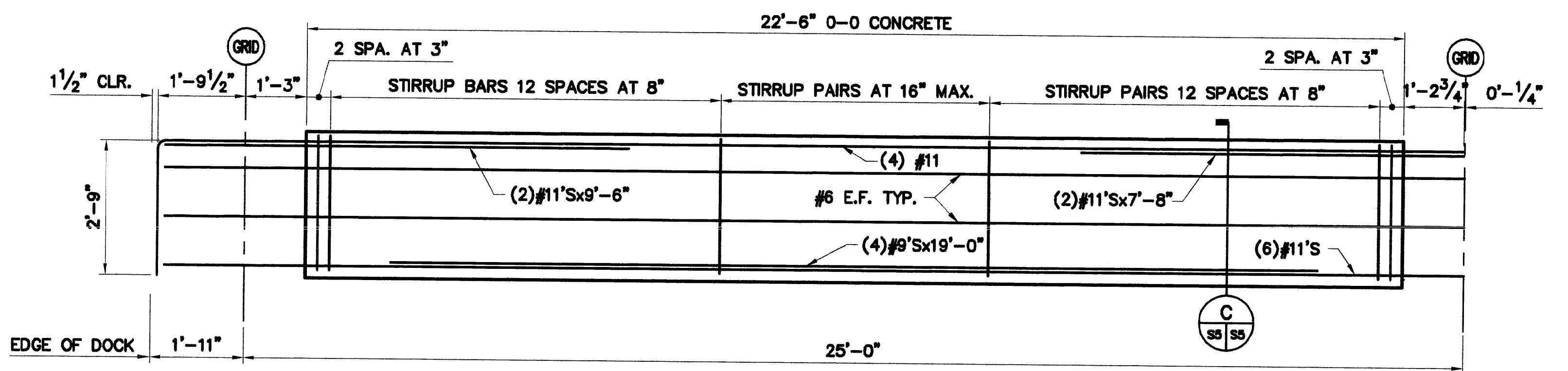
EB2 @ GRID LINES 3 & 17 RECEIVED A DAP @ ONE END.



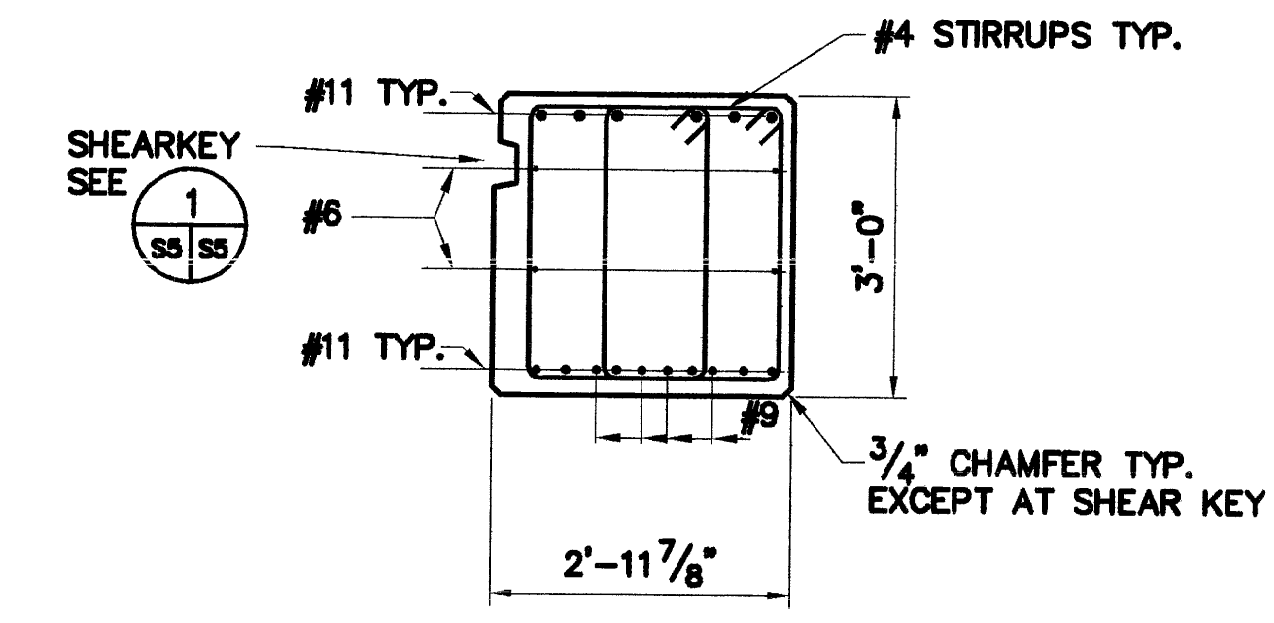
3 EB3 ELEVATION  
SCALE: 1/2" = 1'-0"



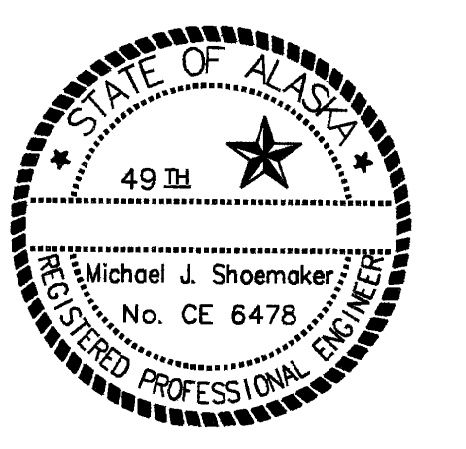
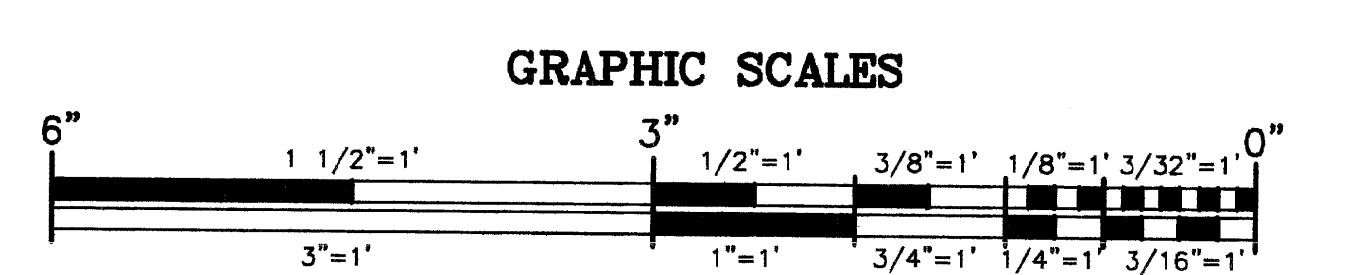
C EB3 SECTION  
SCALE: 1/2" = 1'-0"



4 EB4 ELEVATION  
SCALE: 1/2" = 1'-0"



D EB4 SECTION  
SCALE: 1/2" = 1'-0"



NO.	DATE	BY	REV.	DESCRIPTION
1	02/03	MEH	AS-BUILT	AS-BUILT

NO.	DATE	BY	REV.	DESCRIPTION
1	02/03	MEH	AS-BUILT	AS-BUILT

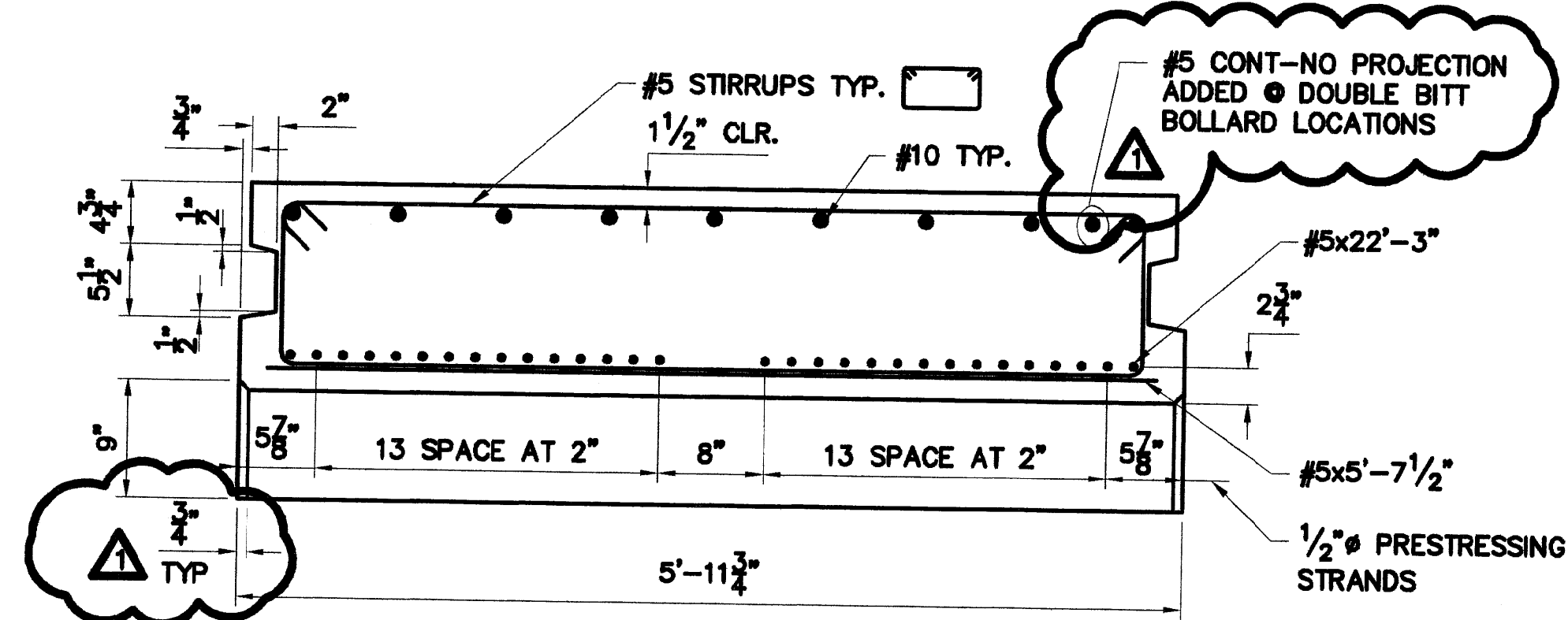
NO.	DATE	BY	REV.	DESCRIPTION
1	02/03	MEH	AS-BUILT	AS-BUILT

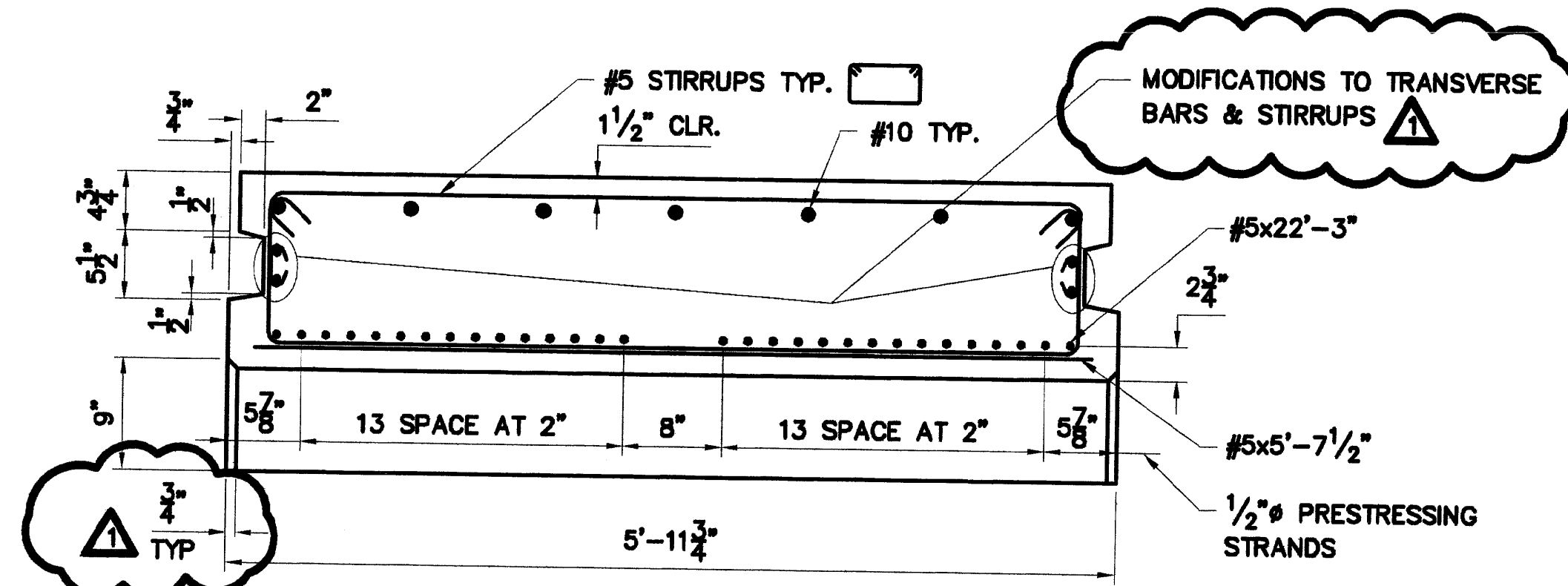
NO.	DATE	BY	REV.	DESCRIPTION
1	02/03	MEH	AS-BUILT	AS-BUILT

CITY OF HOMER  
DECK PANEL DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

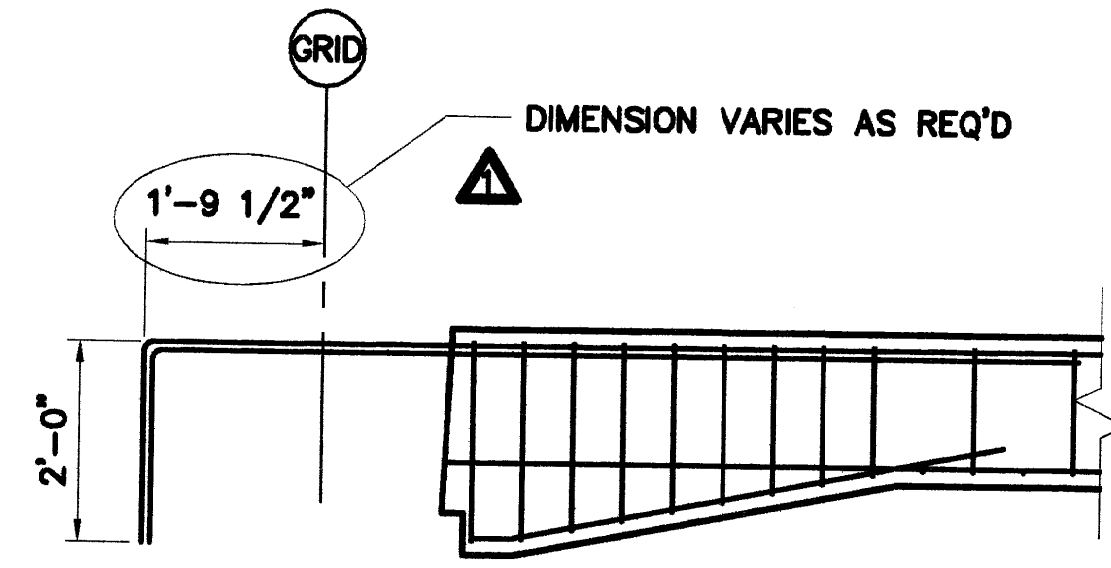
SHEET  
S8 / 47  
FILE NO.  
8238\_SS.DWG



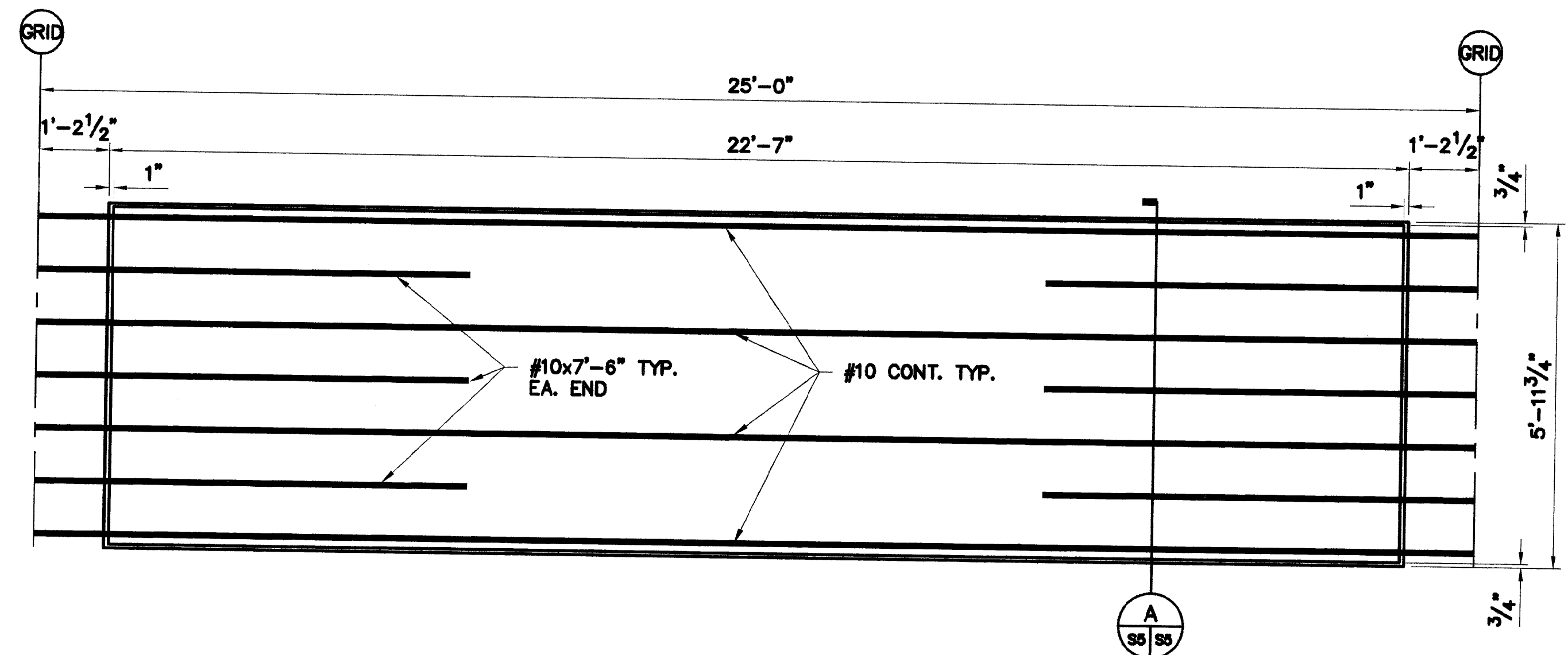
**DP-2 AND DP-2A ELEVATION**  
SCALE: 1" = 1'-0"



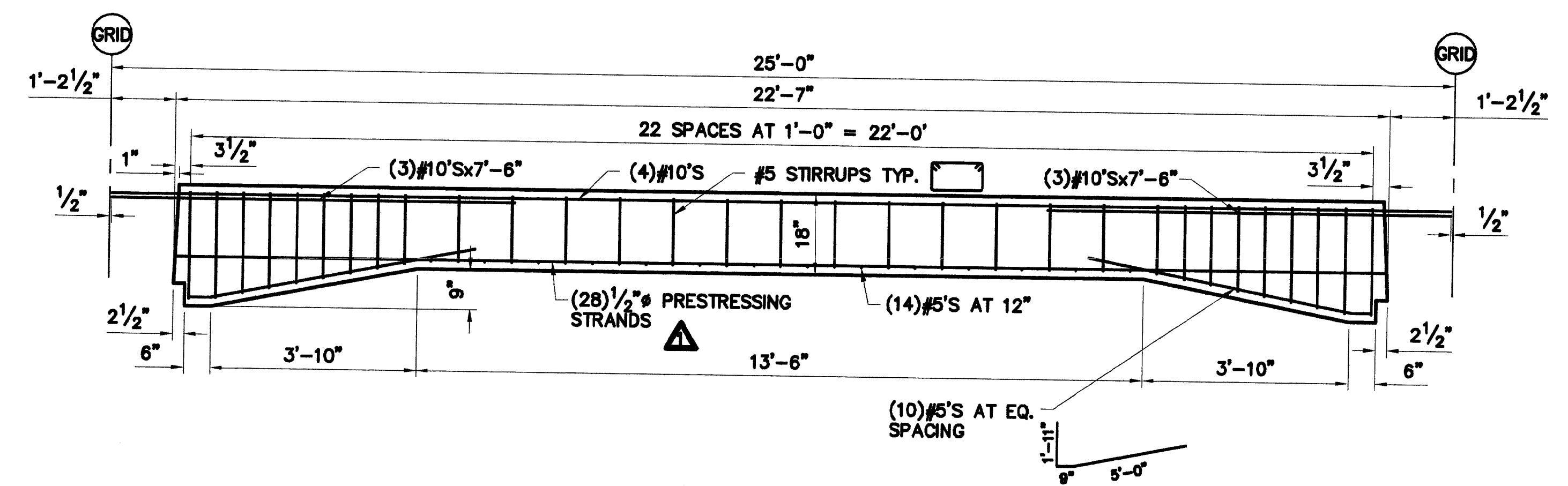
**DP-1 AND DP-1A ELEVATION**  
SCALE: 1" = 1'-0"



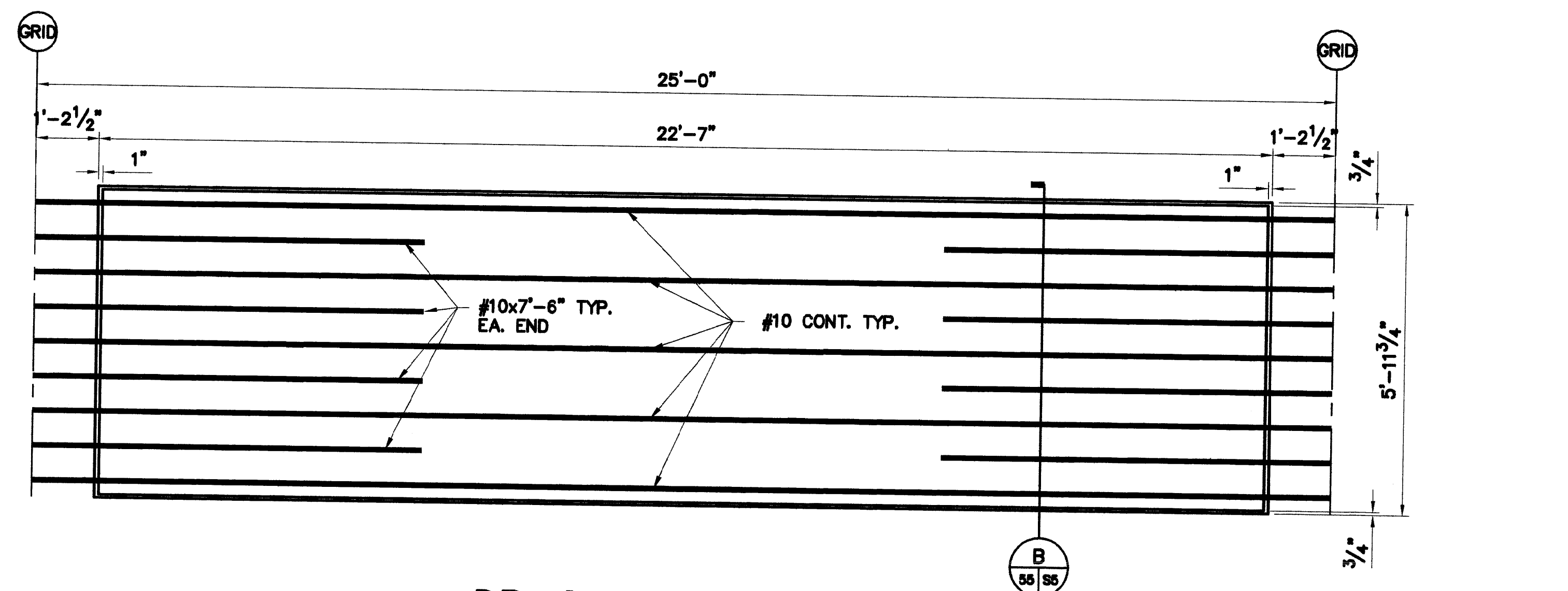
**DP-1A ELEVATION**  
SCALE: 1/2" = 1'-0"



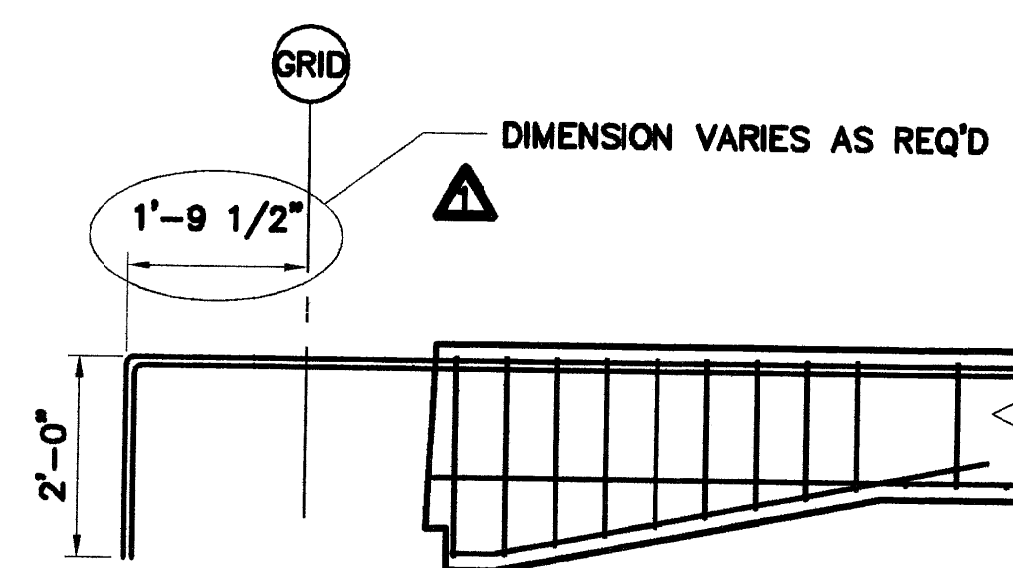
**DP-1 AND DP-1A PLAN**  
SCALE: 1/2" = 1'-0"



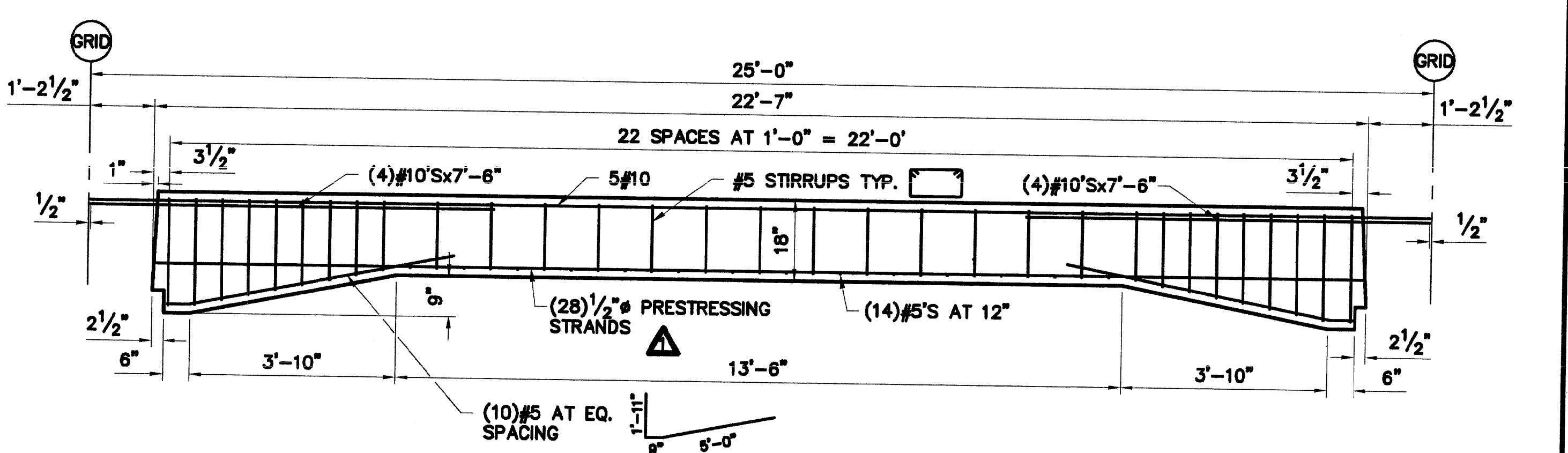
**DP-1 ELEVATION**  
SCALE: 1/2" = 1'-0"



**DP-2 AND DP-2A PLAN**  
SCALE: 1/2" = 1'-0"



**DP-2A ELEVATION**  
SCALE: 1/2" = 1'-0"

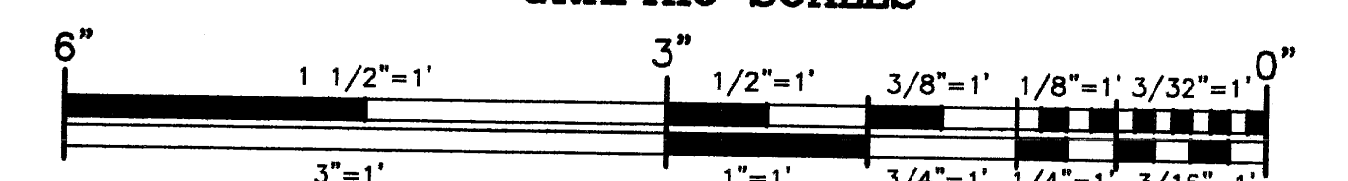


**DP-2 ELEVATION**  
SCALE: 1/2" = 1'-0"

NOTE: PANELS MARKED (\*) ON DECK PANEL LAYOUT PROVIDE #9'S TOP TO SPLICE WITH EDGE BRACE REINF. TYP.

NOTE: STIRRUPS SPACED 6" AT ENDS, 12" CENTER AS SHOWN.

GRAPHIC SCALES



REV	DATE	BY	REVISION
1	02/03	WEH	AS-BUILT

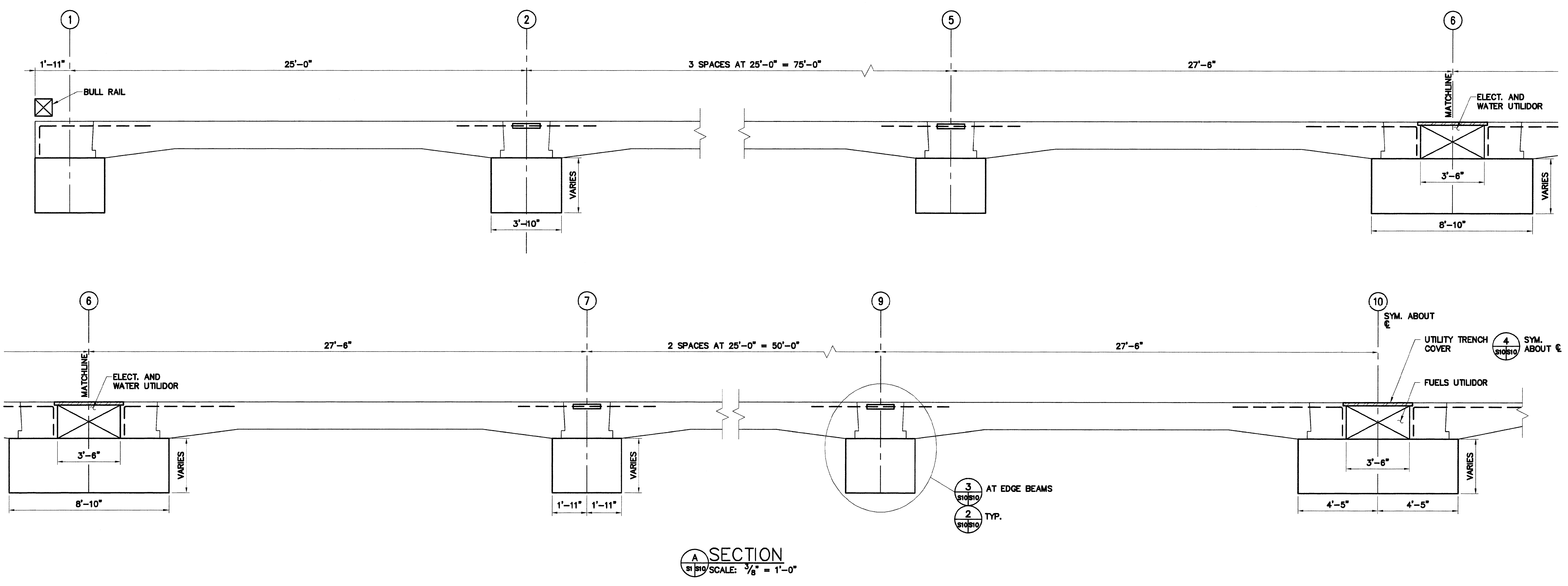
FIELD BOOKS	ISSUED	DATE	BY

CITY OF HOMER  
DECK PANEL DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

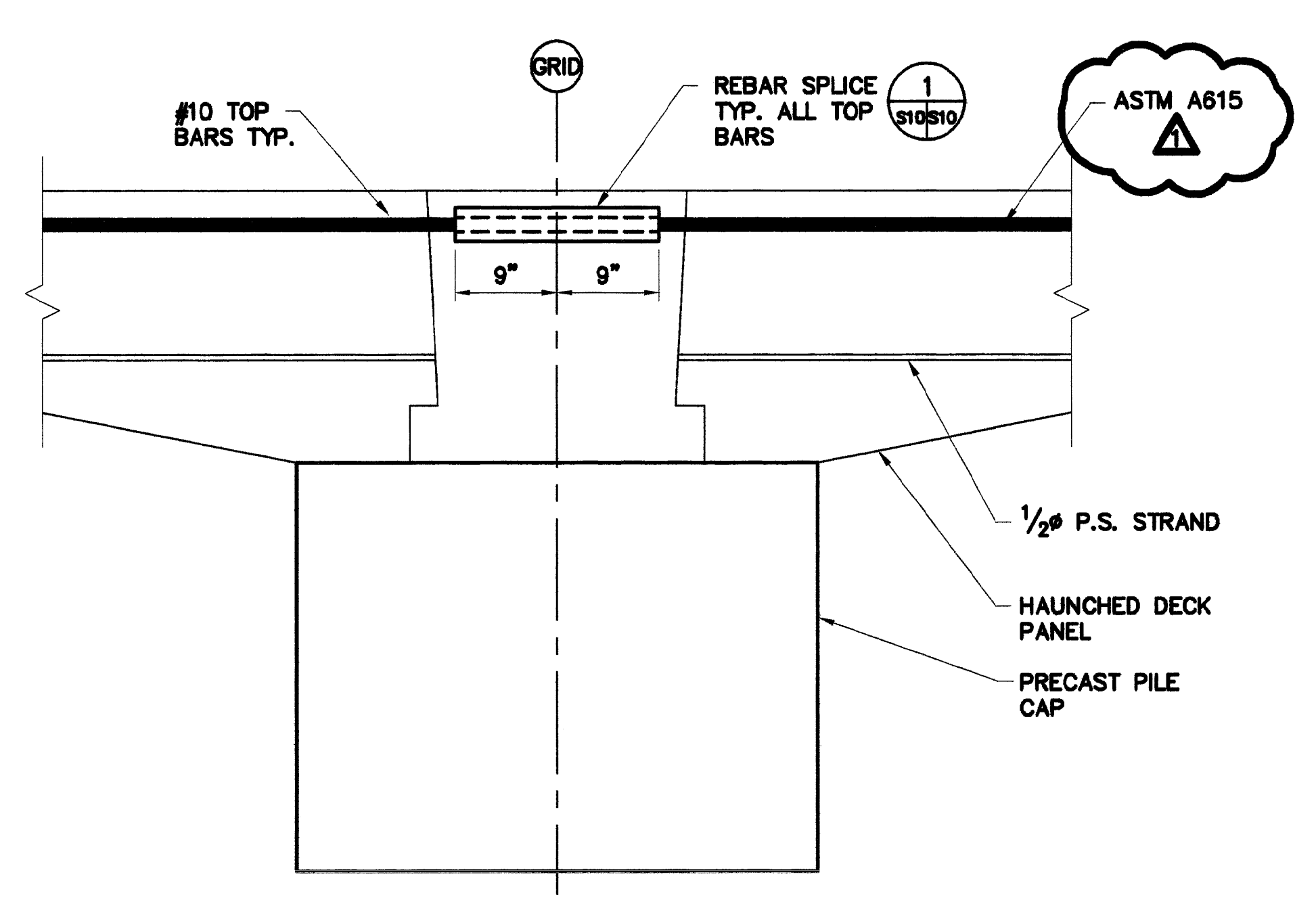
SHEET  
S9 / 47

02104

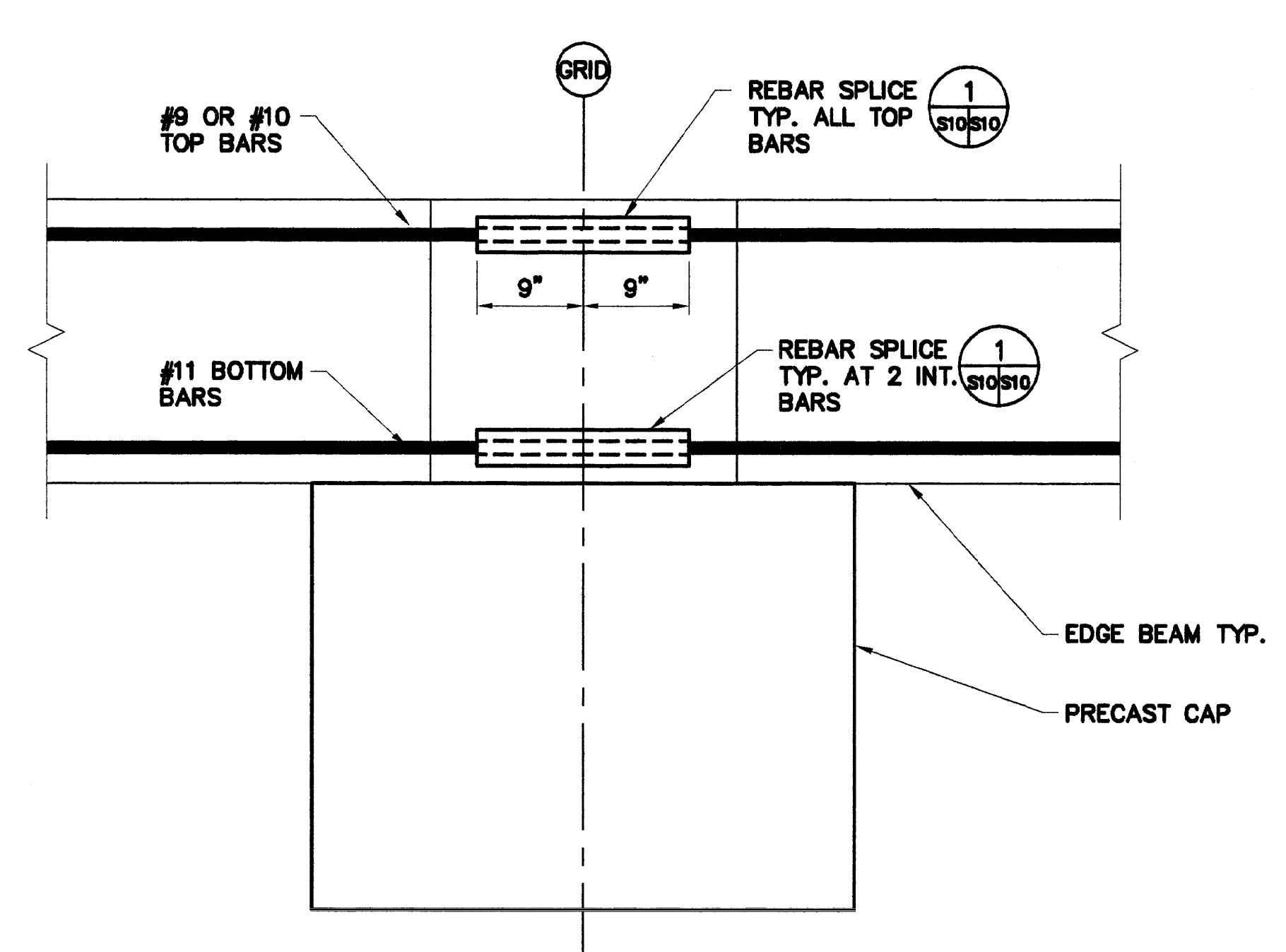




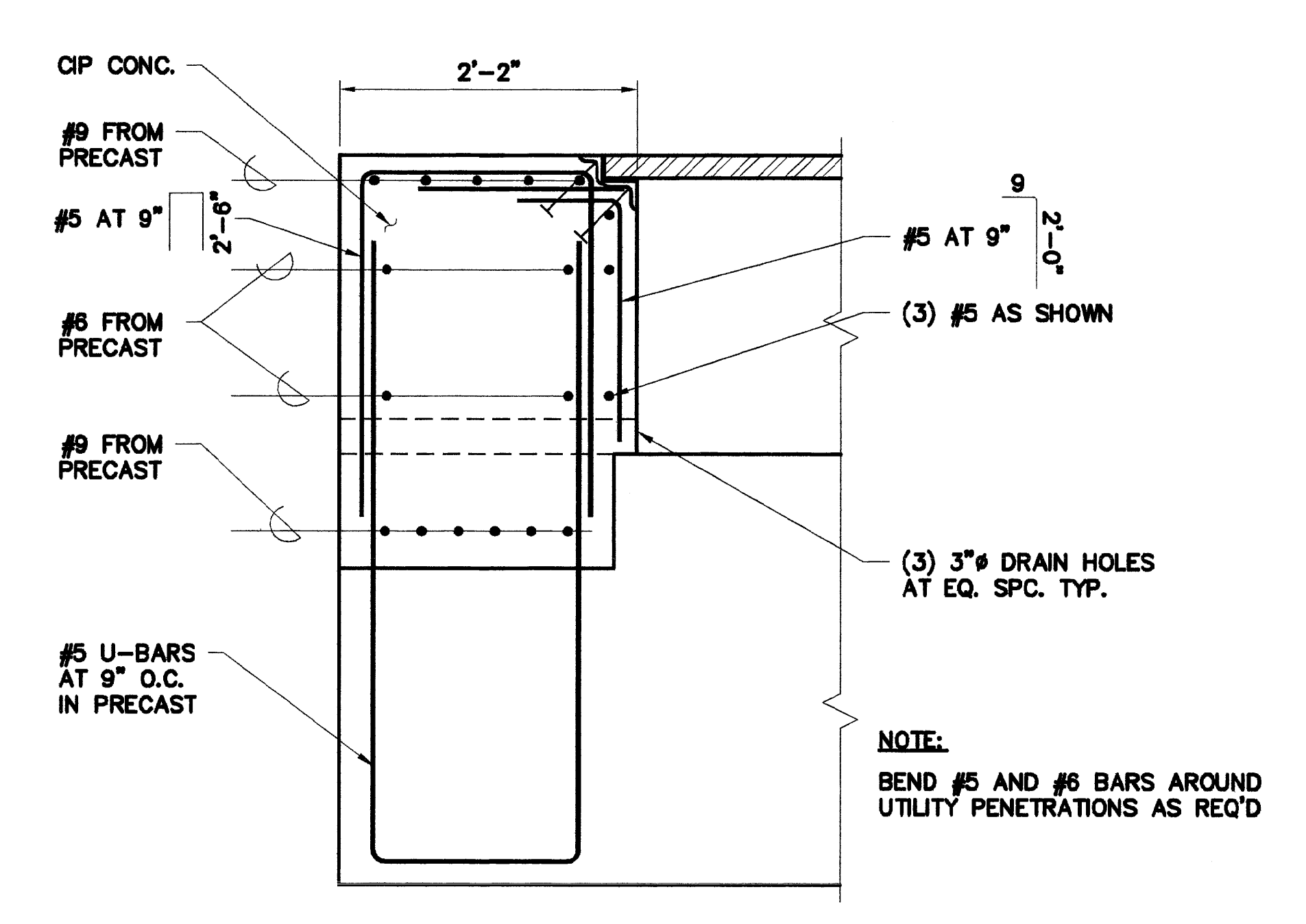
**A SECTION**  
SCALE: 3/8" = 1'-0"



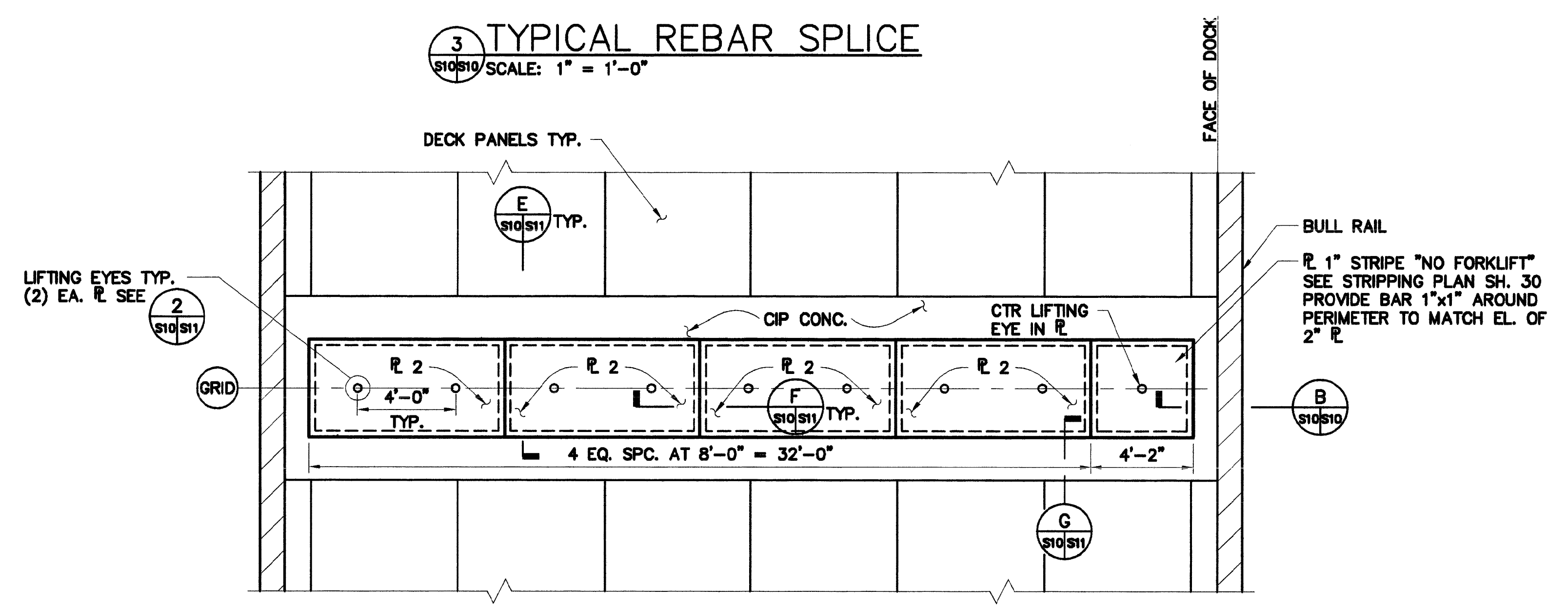
**2 TYPICAL REBAR SPLICE**  
SCALE: 1" = 1'-0"



**3 TYPICAL REBAR SPLICE**  
SCALE: 1" = 1'-0"

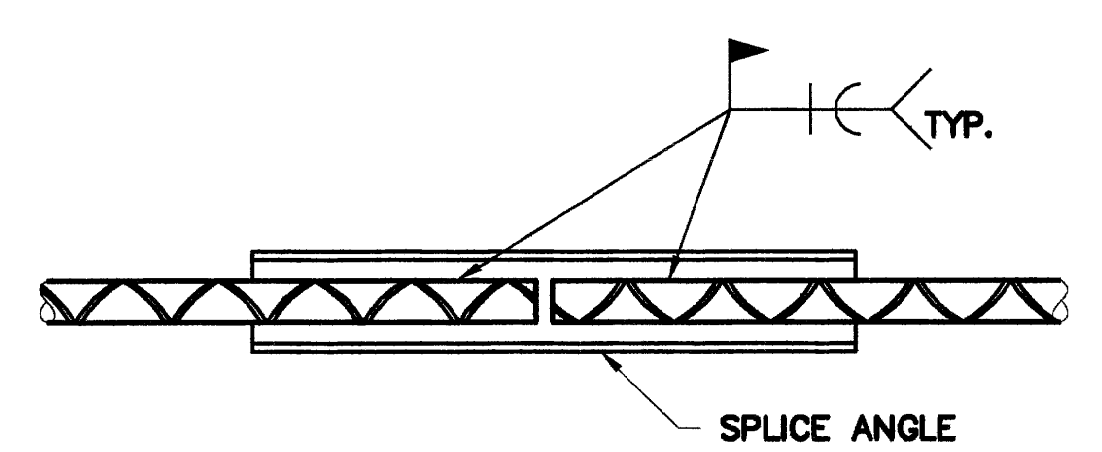


**B SECTION**  
SCALE: 1" = 1'-0"



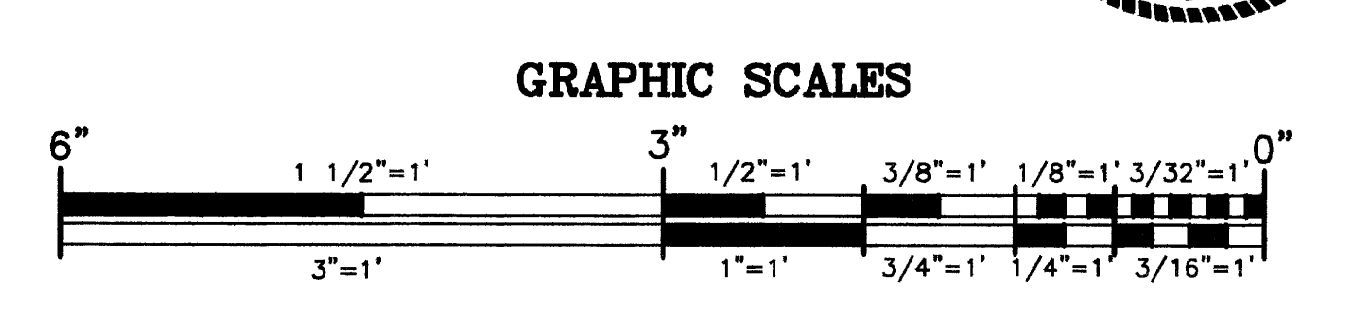
**4 PLAN**  
SCALE: 1" = 1'-0"

BAR SIZE	ANGLE	WELD EXL
#9	2 1/2 x 2 1/2 x 3/8	5/16 x 5
#10	3 x 3 x 1/2	5/16 x 6
#11	3 x 3 x 1/2	6 x 3/8



**1 TYPICAL REBAR SPLICE**  
SCALE: 1" = 1'-0"

NOTE  
SEE TABLE FOR  
ANGLE AND WELD  
SIZE



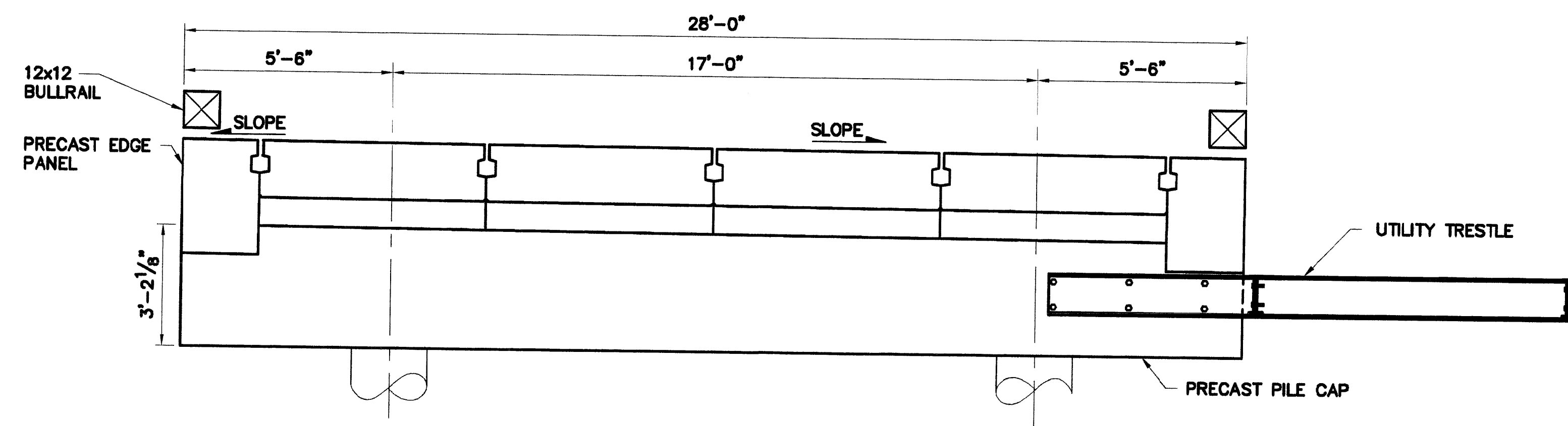
FIELD BOOKS: DRAWN: MJS, CHECKED: JWF, DATE: JUNE 2003, SCALE: NOTED, SHEET NO.: 47, FILE NO.: 8239.0  
 REVISION: 1 02/03 MEH AS-BUILT BY: DATE: REV:

CITY OF HOMER  
 SECTIONS AND DETAILS  
 KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

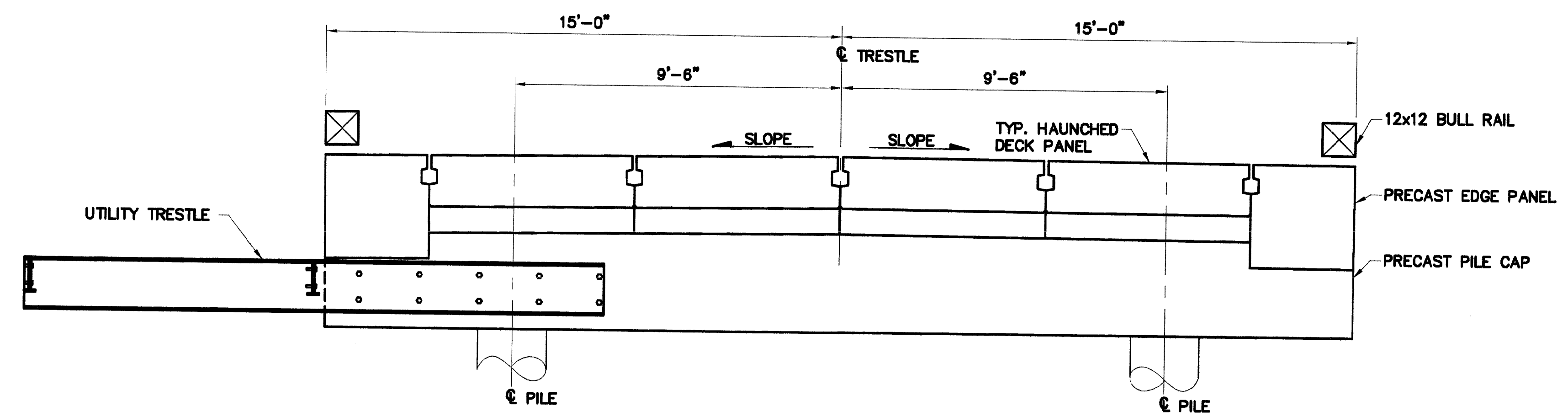
SHEET  
 10 / 47

92105

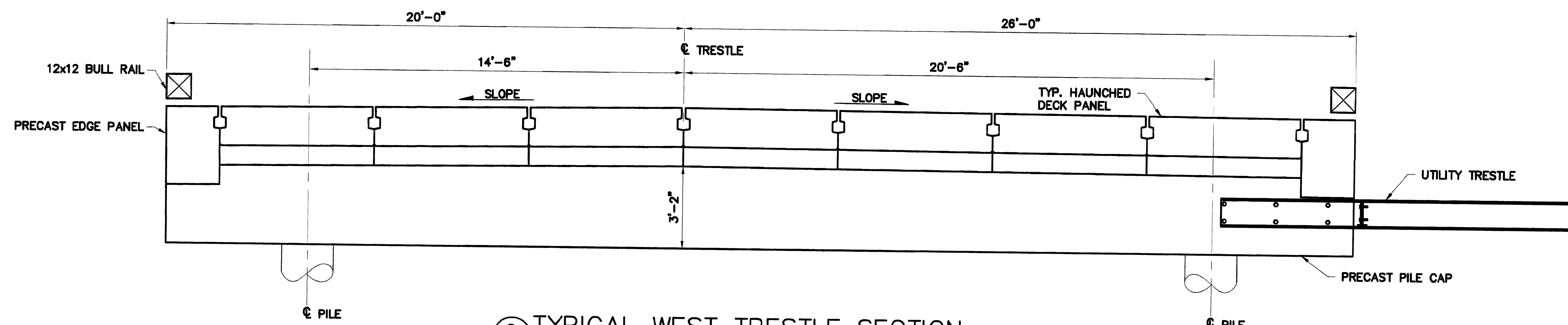




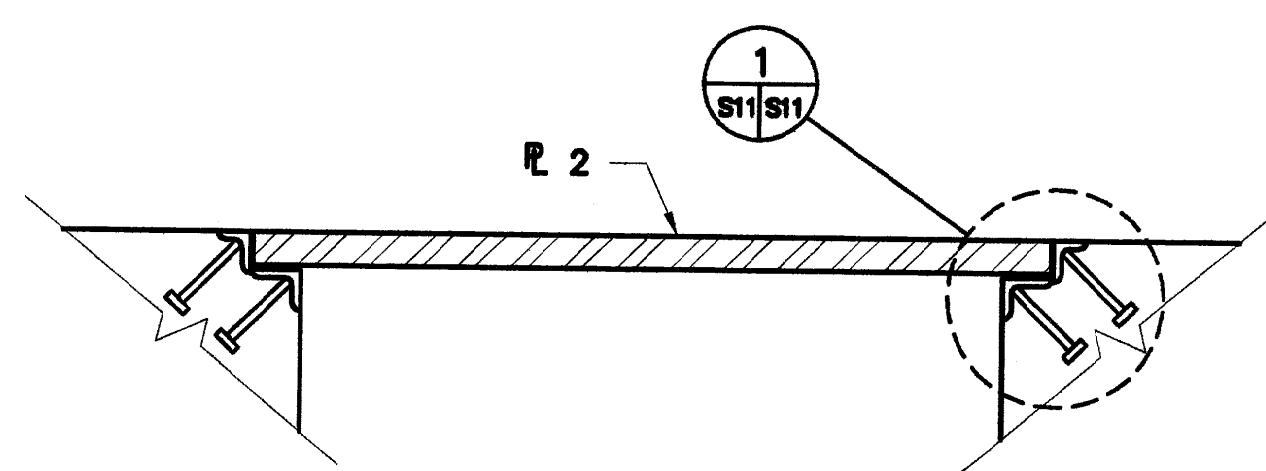
**B** TYPICAL WEST TRESTLE SECTION  
SCALE: 3/8" = 1'-0"



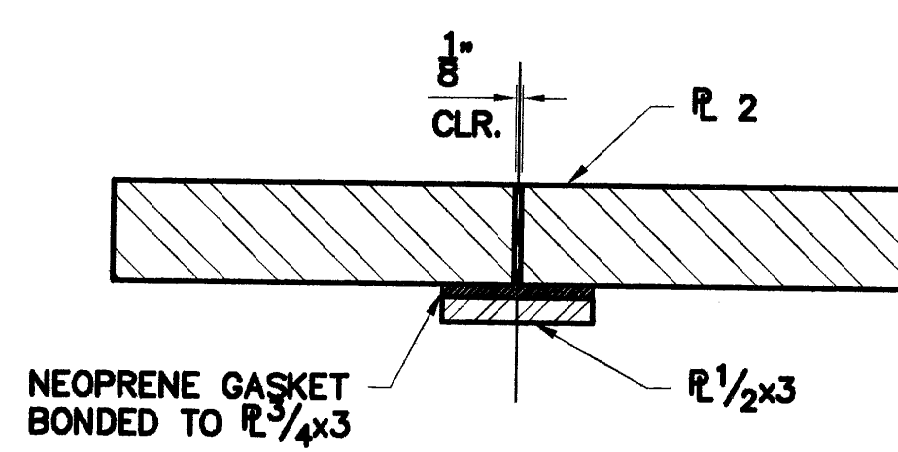
**C** TYPICAL EAST TRESTLE SECTION  
SCALE: 3/8" = 1'-0"



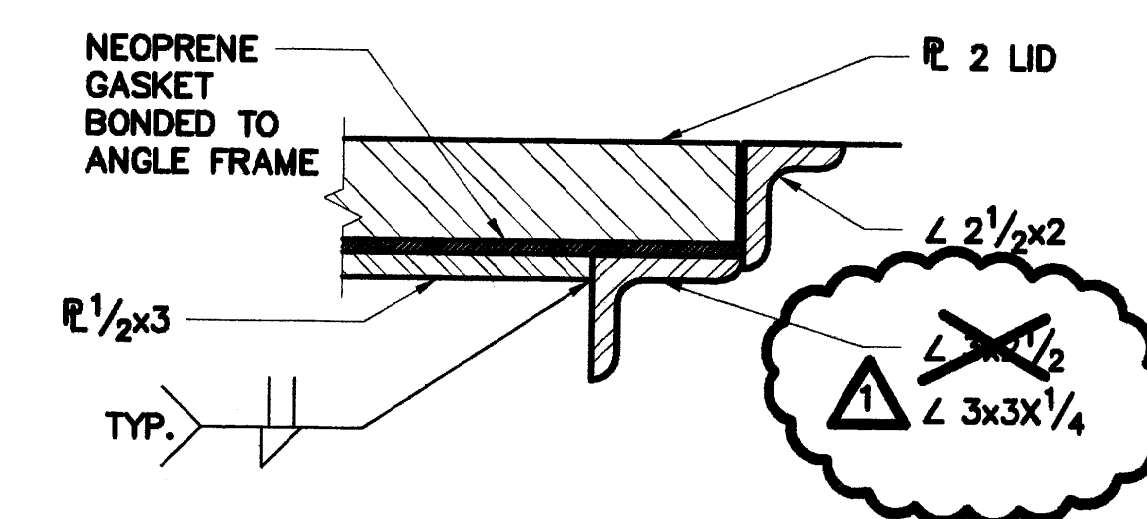
**D** TYPICAL WEST TRESTLE SECTION  
SCALE: 3/8" = 1'-0"



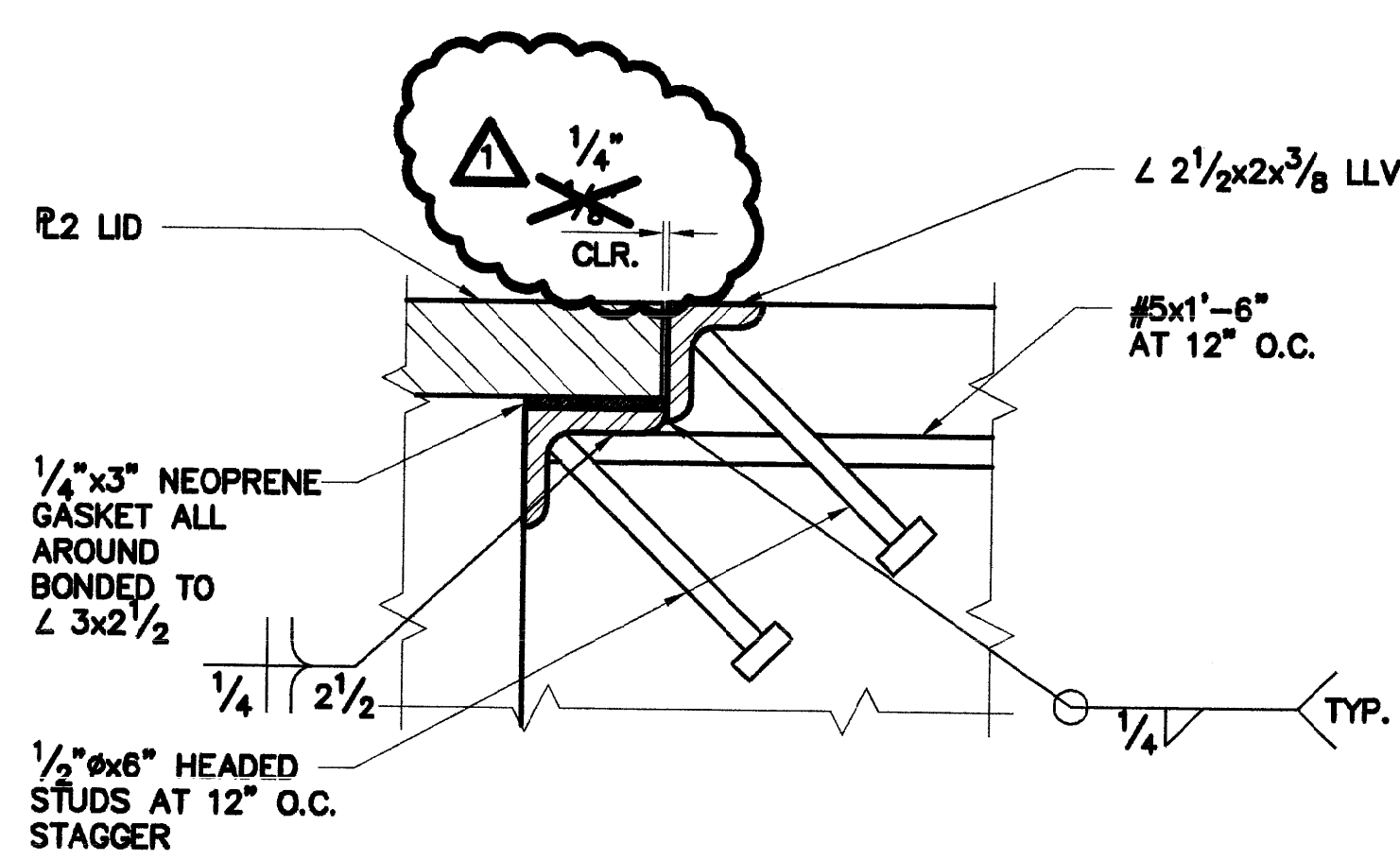
**E** SECTION  
SCALE: 3" = 1'-0"



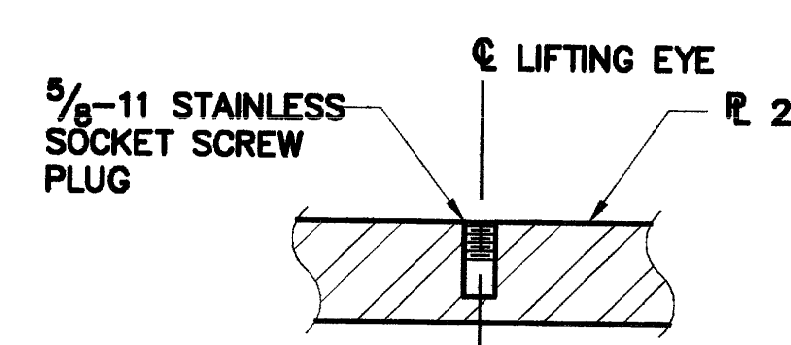
**F** SECTION  
SCALE: 3" = 1'-0"



**G** SECTION  
SCALE: 3" = 1'-0"

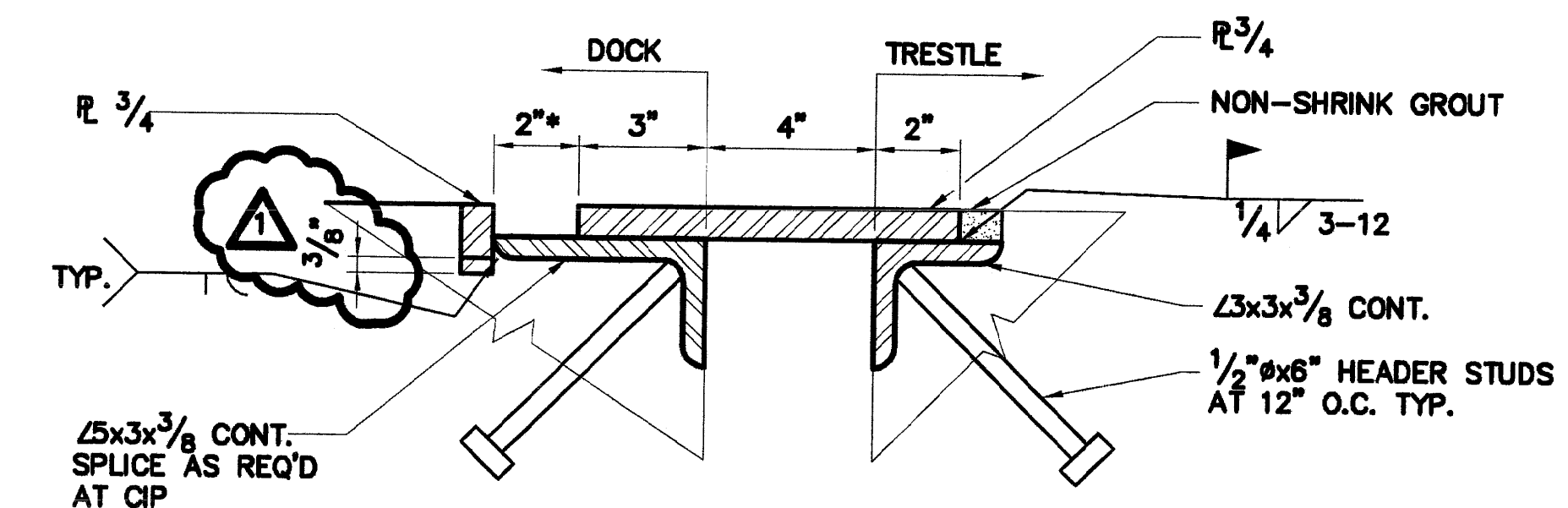


**1** DETAIL  
SCALE: 3" = 1'-0"



**NOTE:**  
PROVIDE (4) EA. HIGHLOAD LIFTING EYES. LIFTING EYES SHALL HAVE 180° SWIVEL. MATCH THREADS IN R 2 AND HAVE A SAFE WORKING CAPACITY OF 8000# MIN.

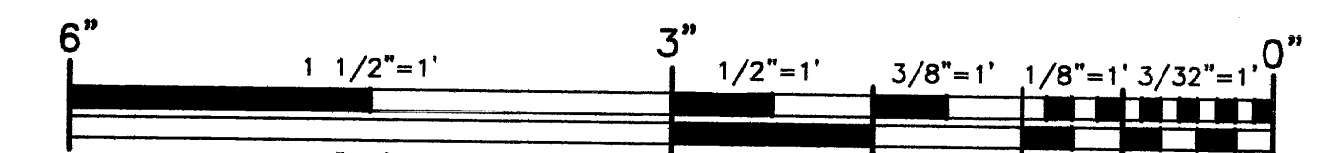
**2** DETAIL  
SCALE: 3" = 1'-0"



\* DIM. SHOWN FOR 60° F. INCREASE 1/8" FOR EA -10° F AND DECREASE 3/8" FOR EA +10° F AT TIME OF INSTALLATION.

**3** DETAIL  
SCALE: 3" = 1'-0"

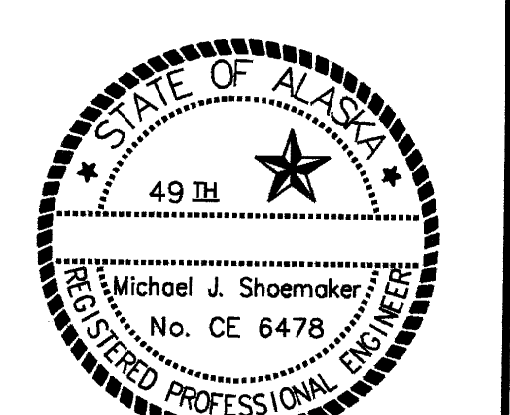
GRAPHIC SCALES



REV.	DATE	BY	AS-BUILT	REVISION
1	02/03	WEH		

FIELD	MUS	DATE	SCALE	NOTED
DOCKS	MUS	JUNE 2003	N/A	

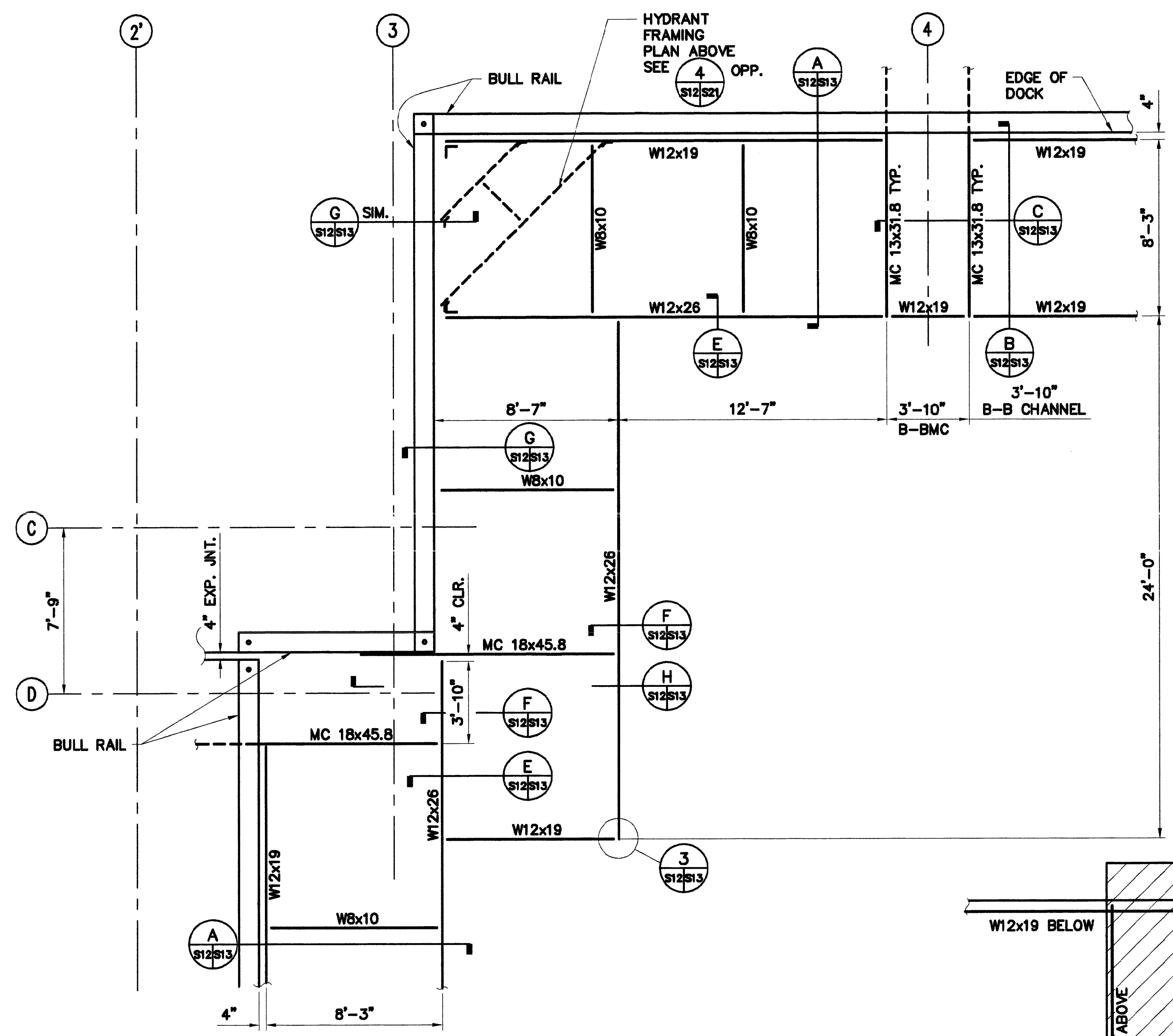
CITY OF HOMER  
SECTIONS AND DETAILS  
KACHEMAK BAY, MULTI-PURPOSE OCEAN DOCK



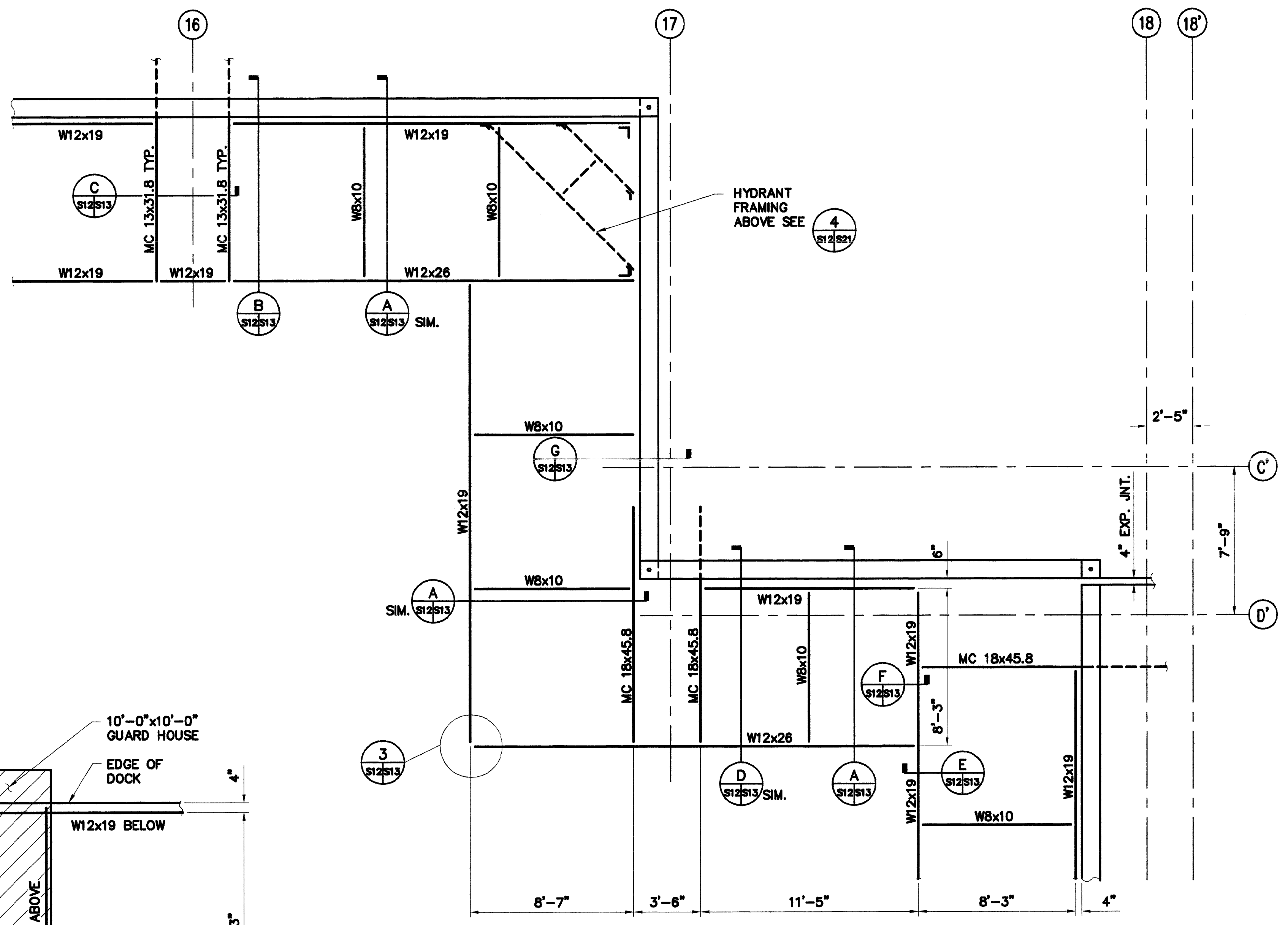
SHEET  
S11/47

02106

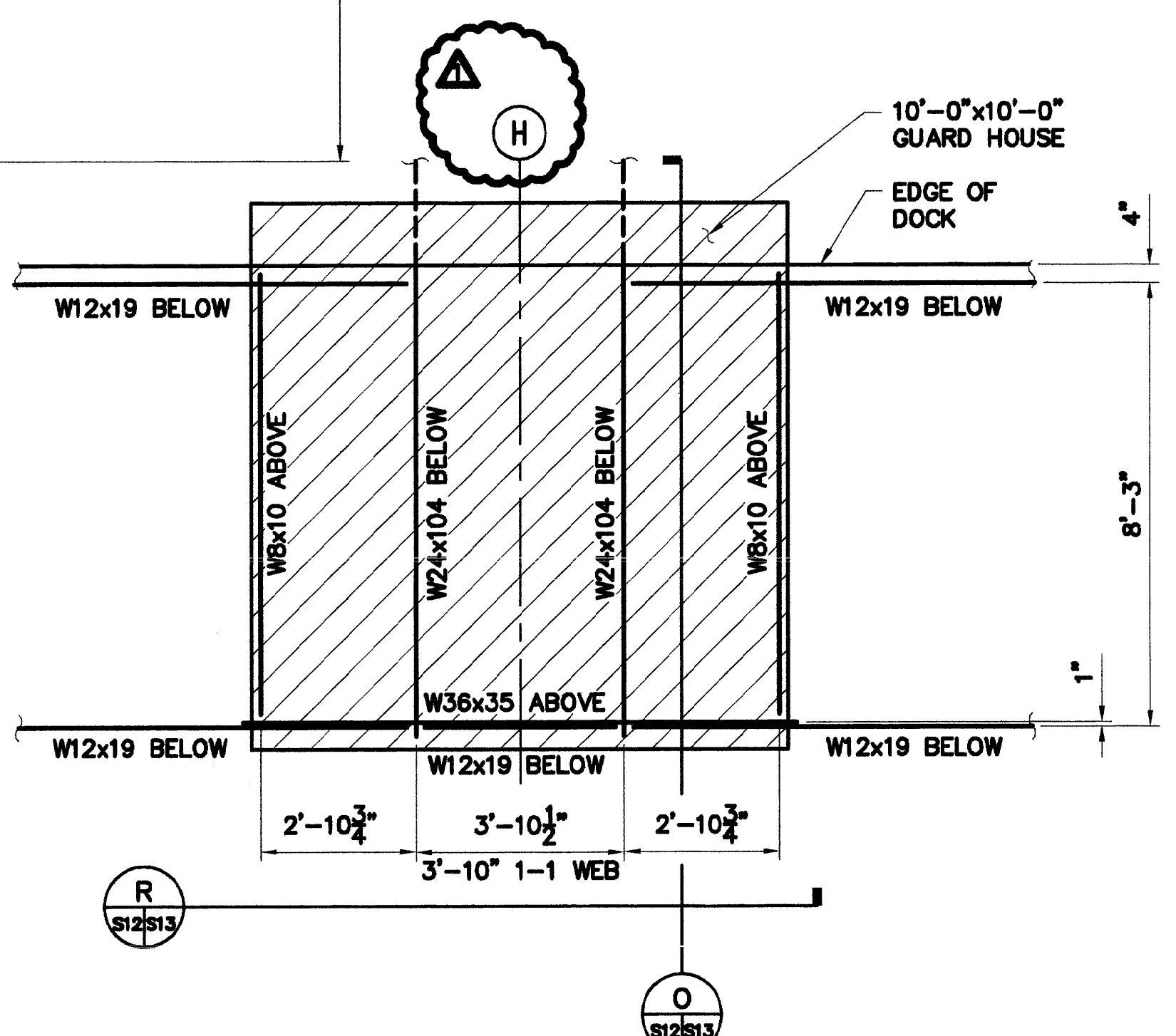
FILE NO.  
B239\_S11.DWG



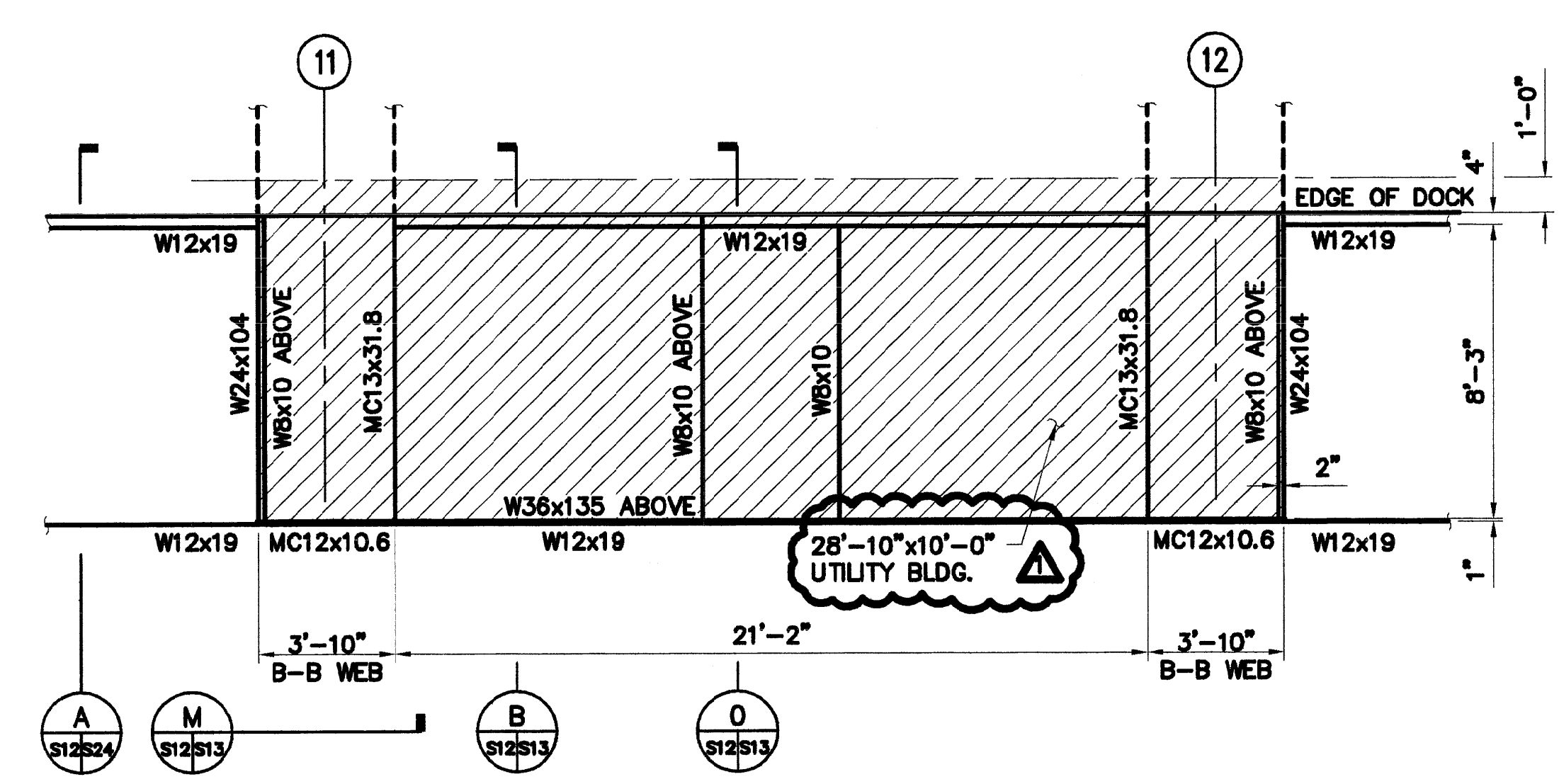
2 PLAN  
SCALE: 1/4" = 1'-0"



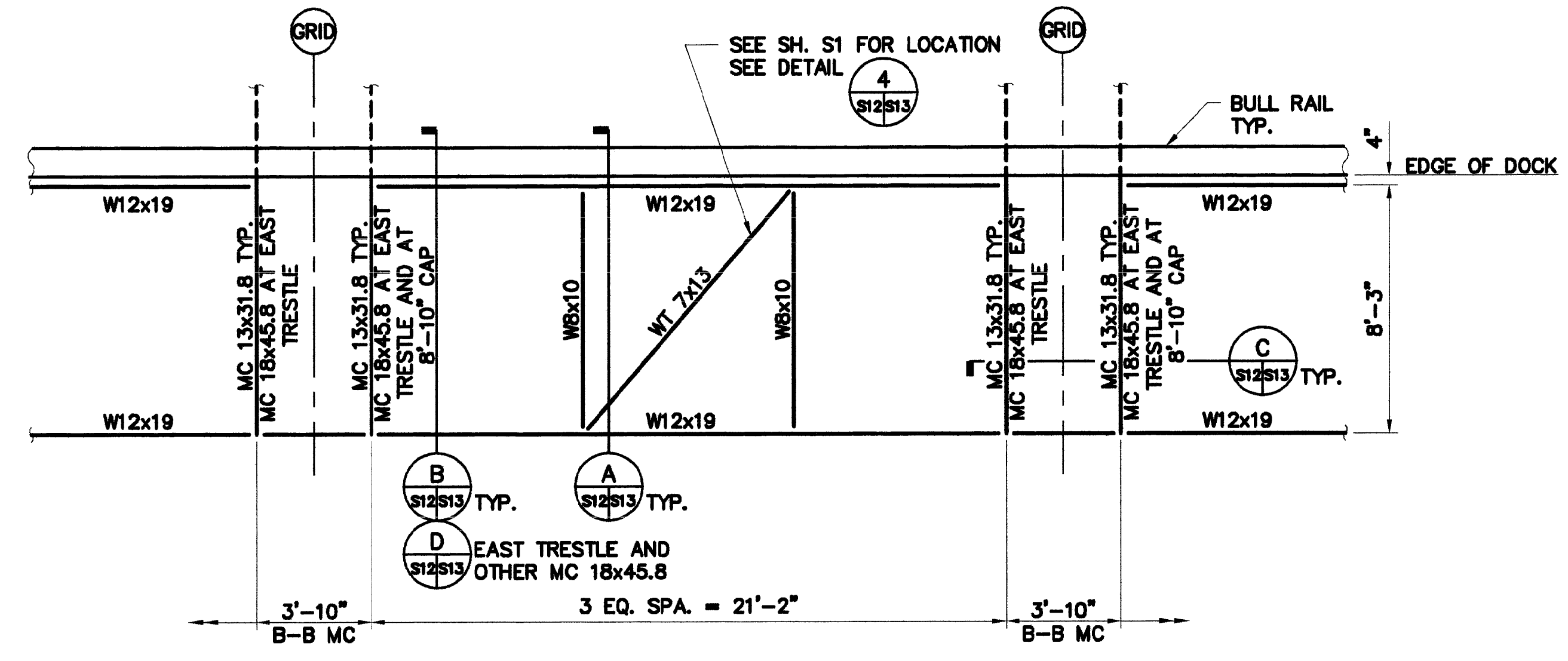
3 PLAN  
SCALE: 1/4" = 1'-0"



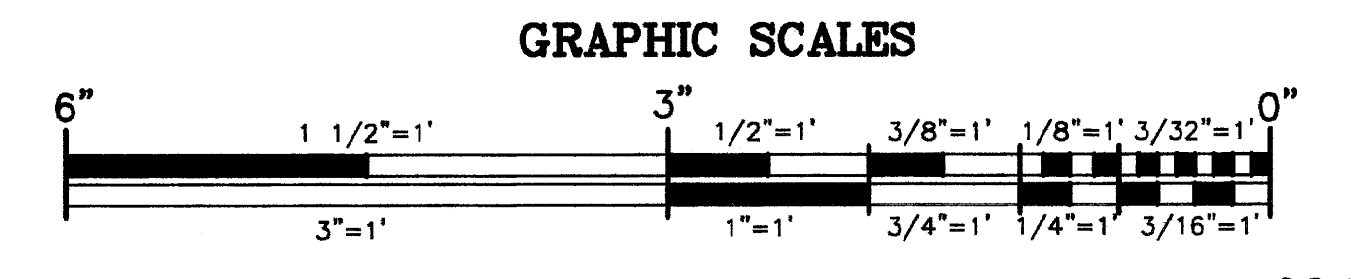
5 PLAN  
SCALE: 1/4" = 1'-0"



4 PLAN  
SCALE: 1/4" = 1'-0"



1 PLAN  
SCALE: 1/4" = 1'-0"



REV.	DATE	BY	REVISION
1	02/03	MEH	AS-BUILT

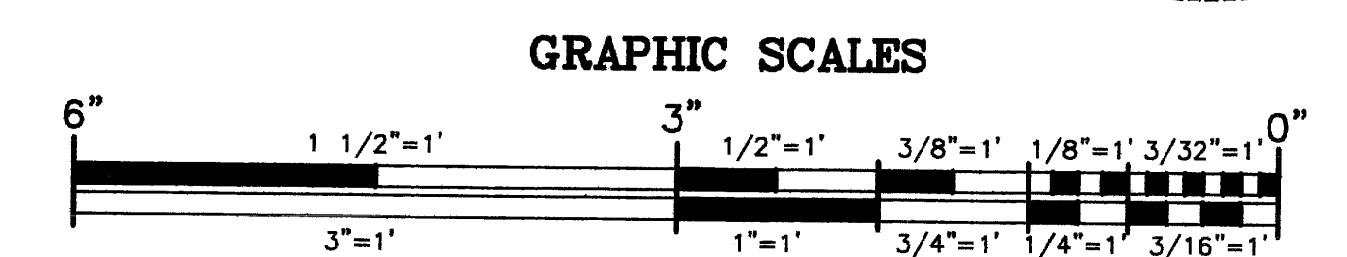
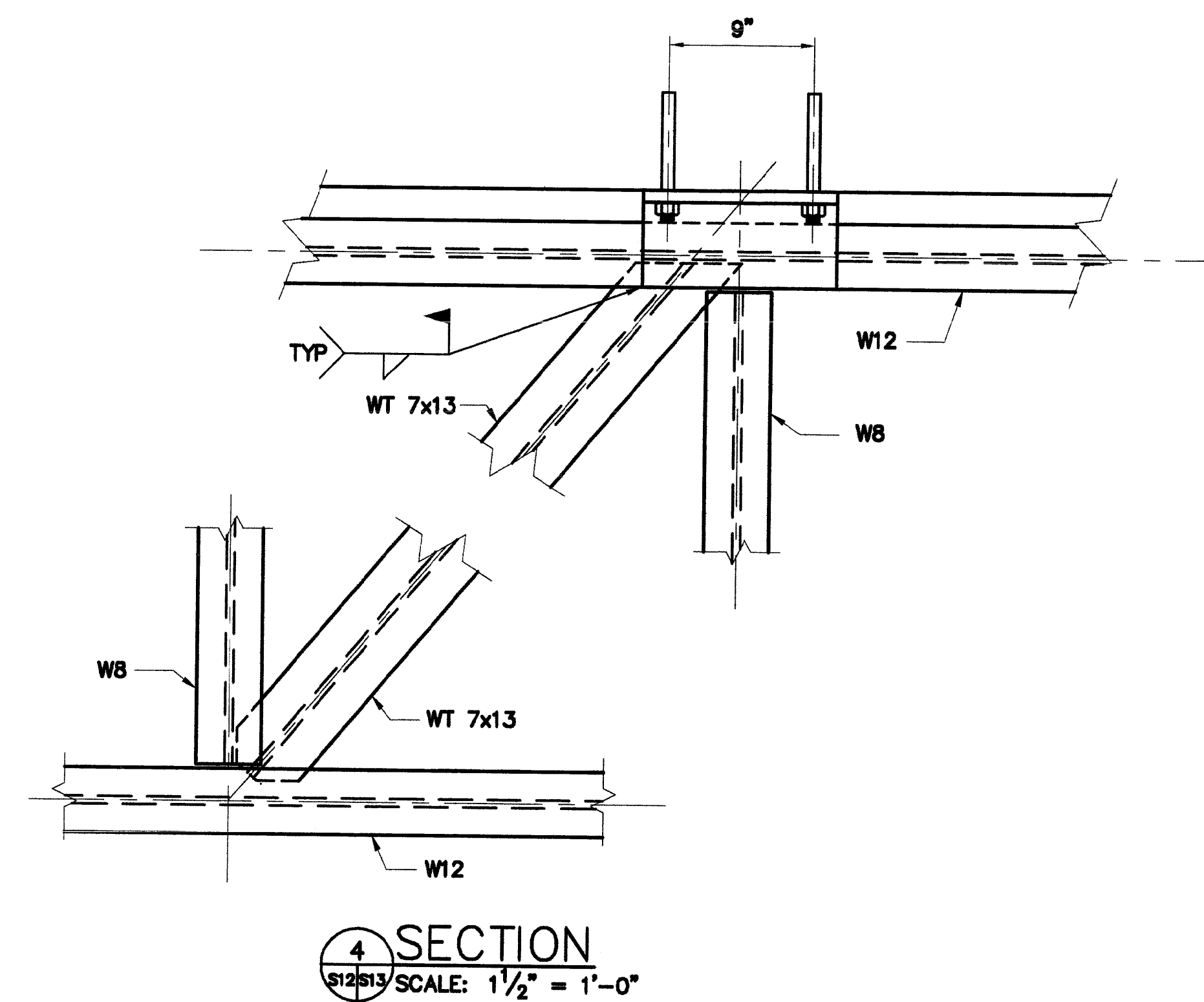
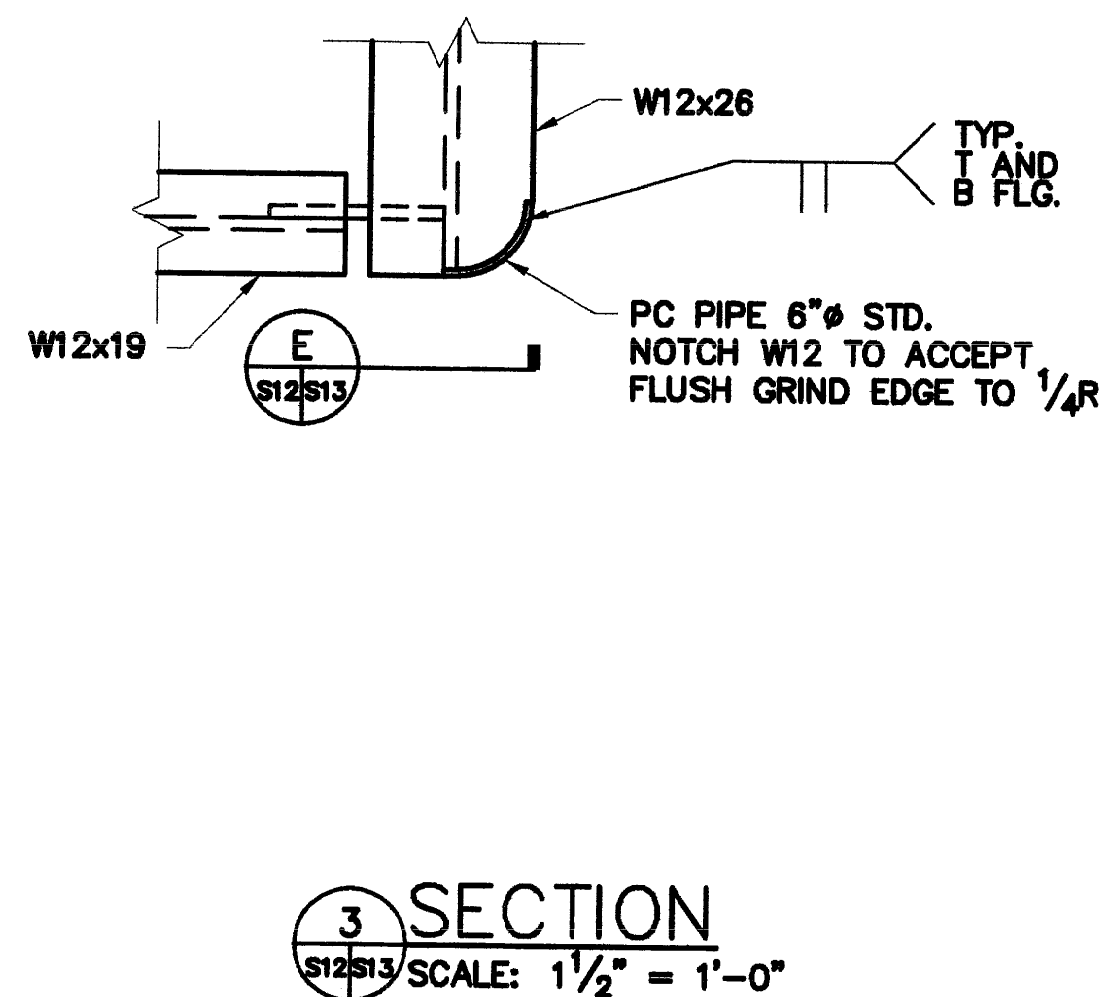
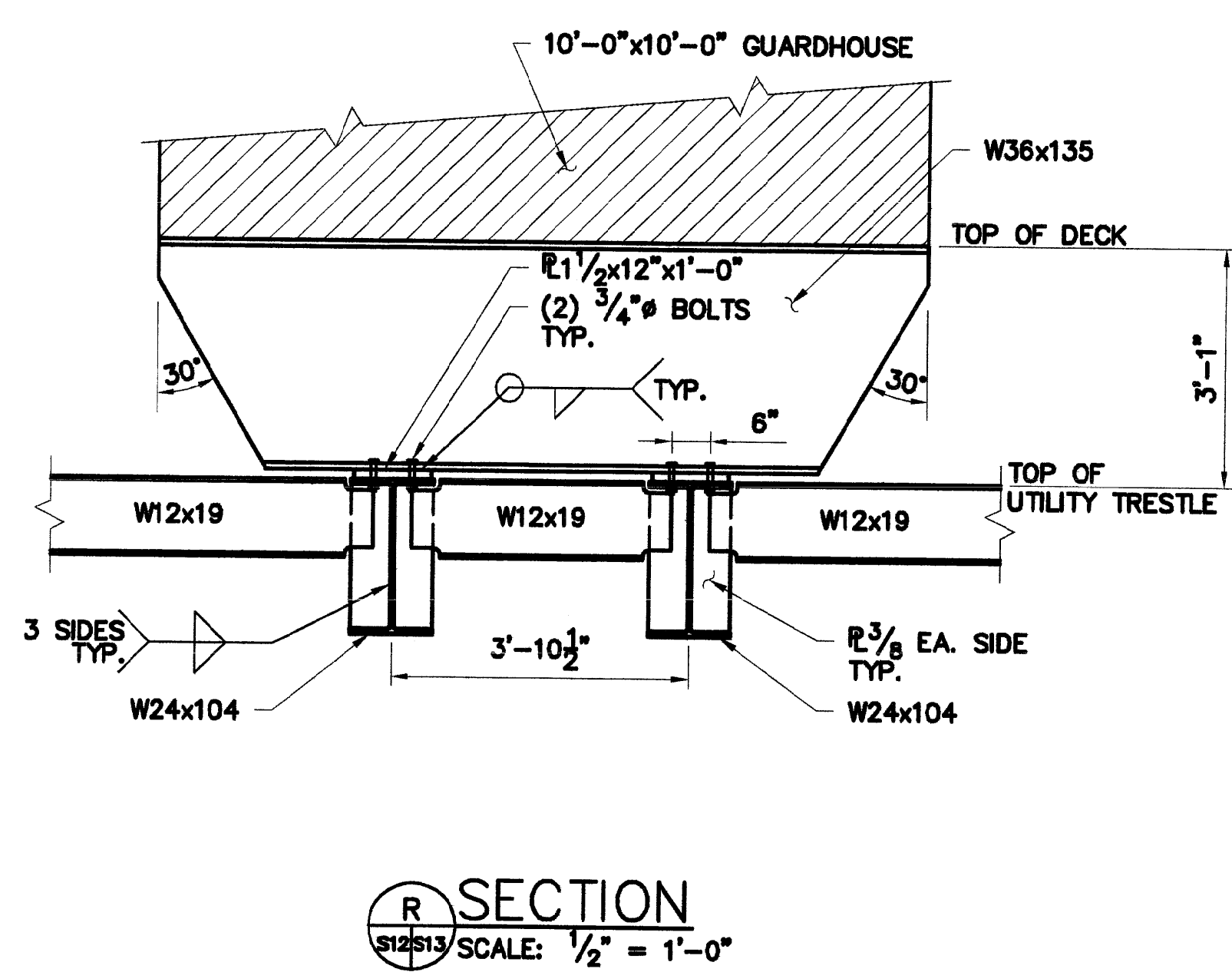
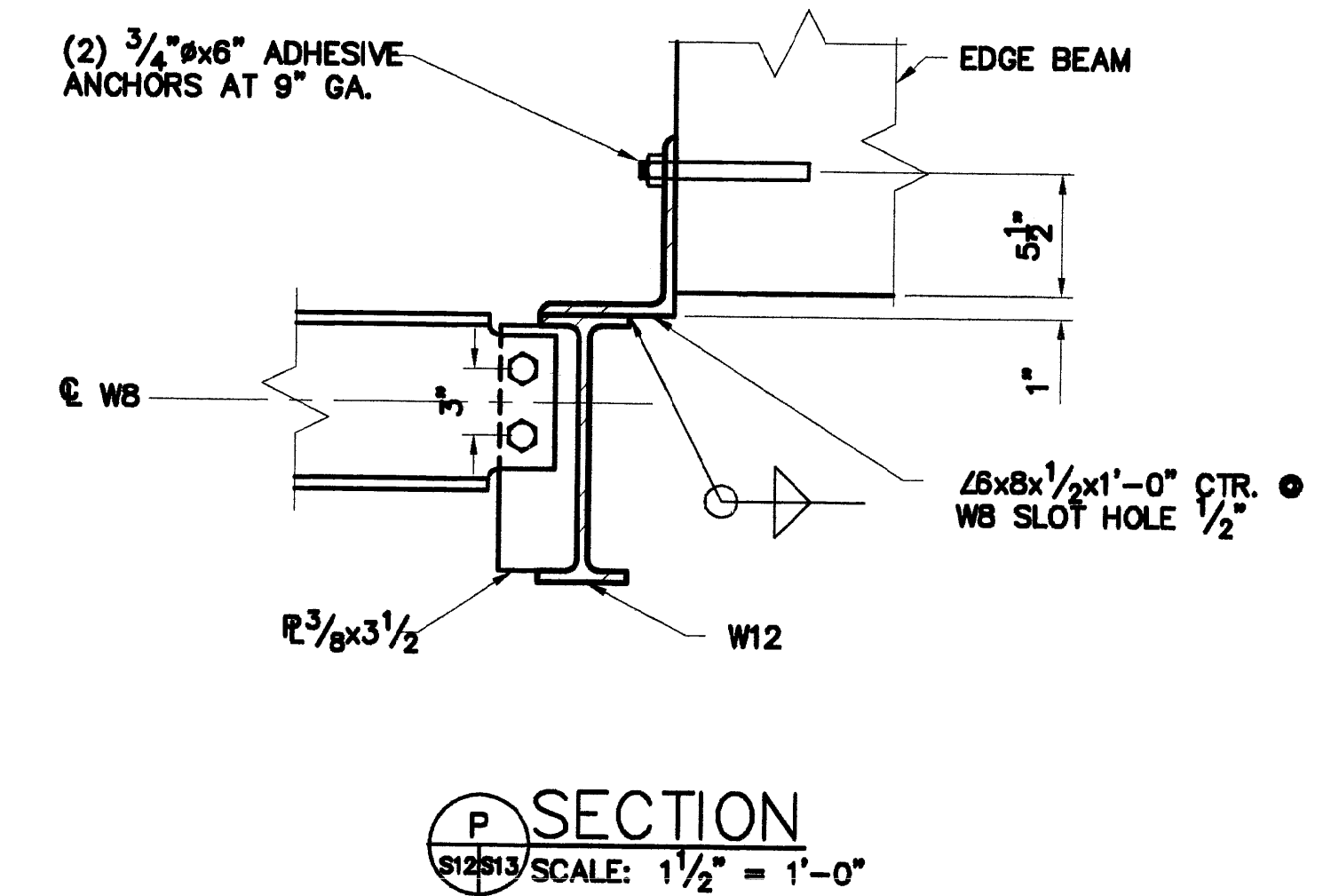
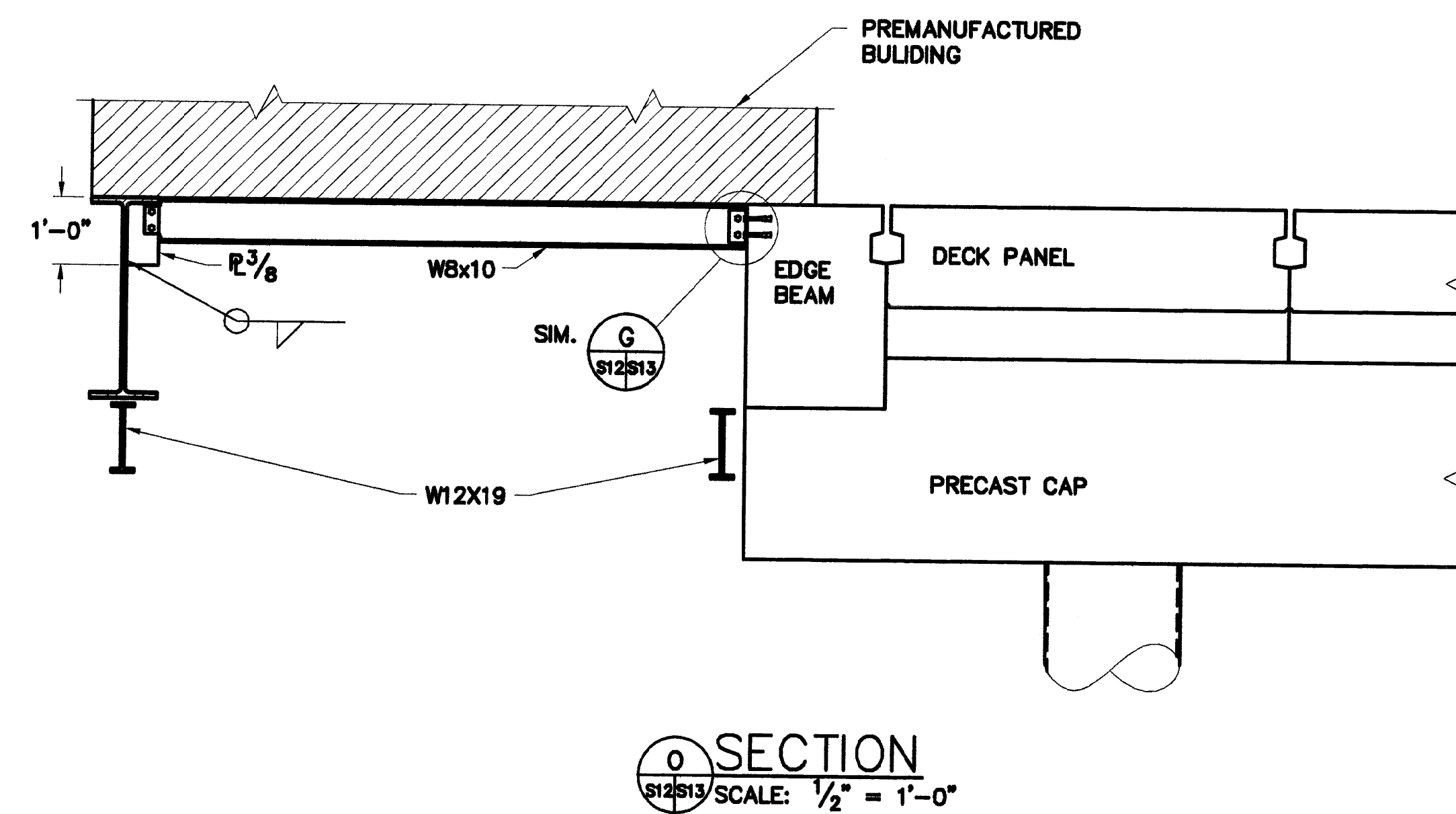
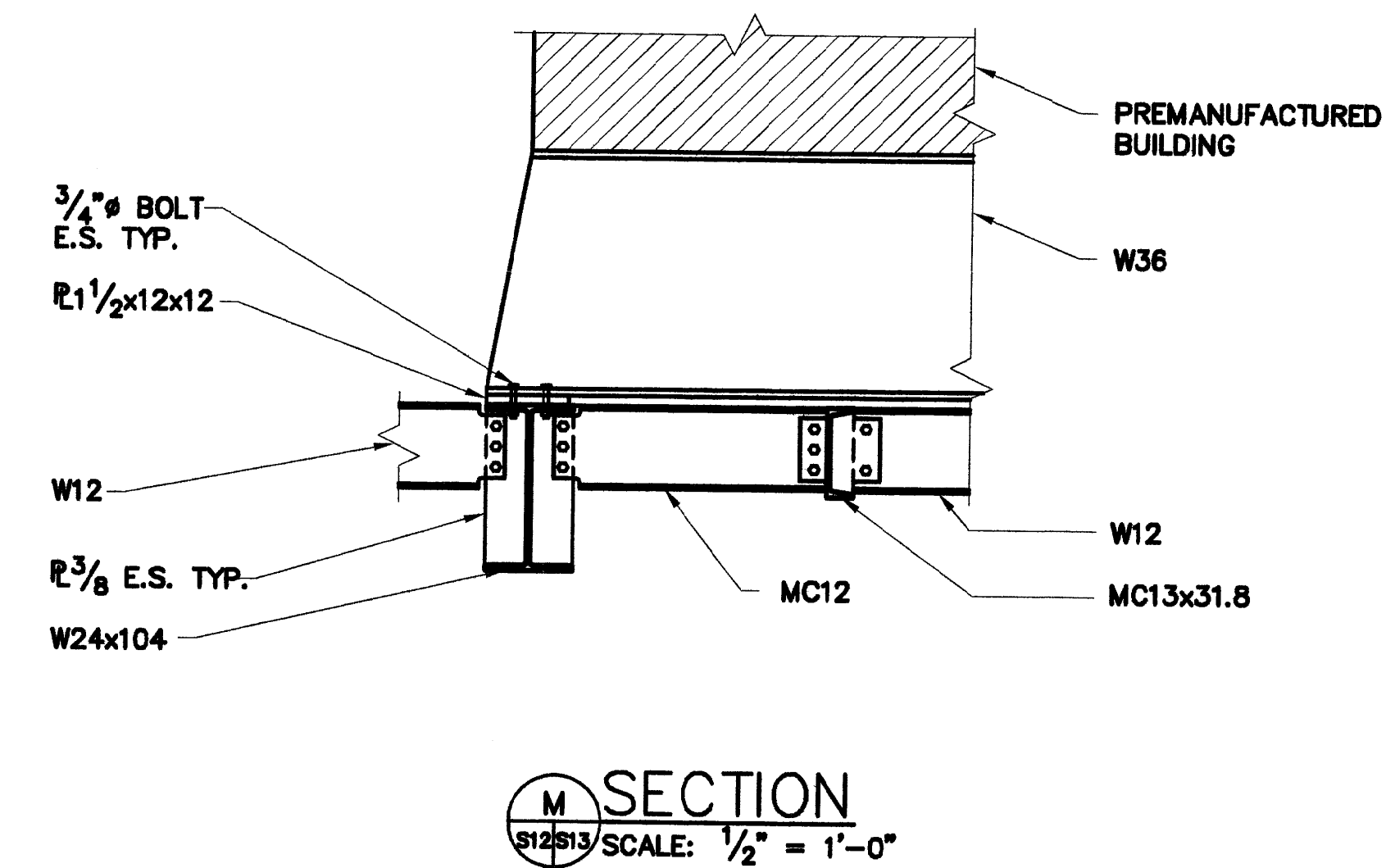
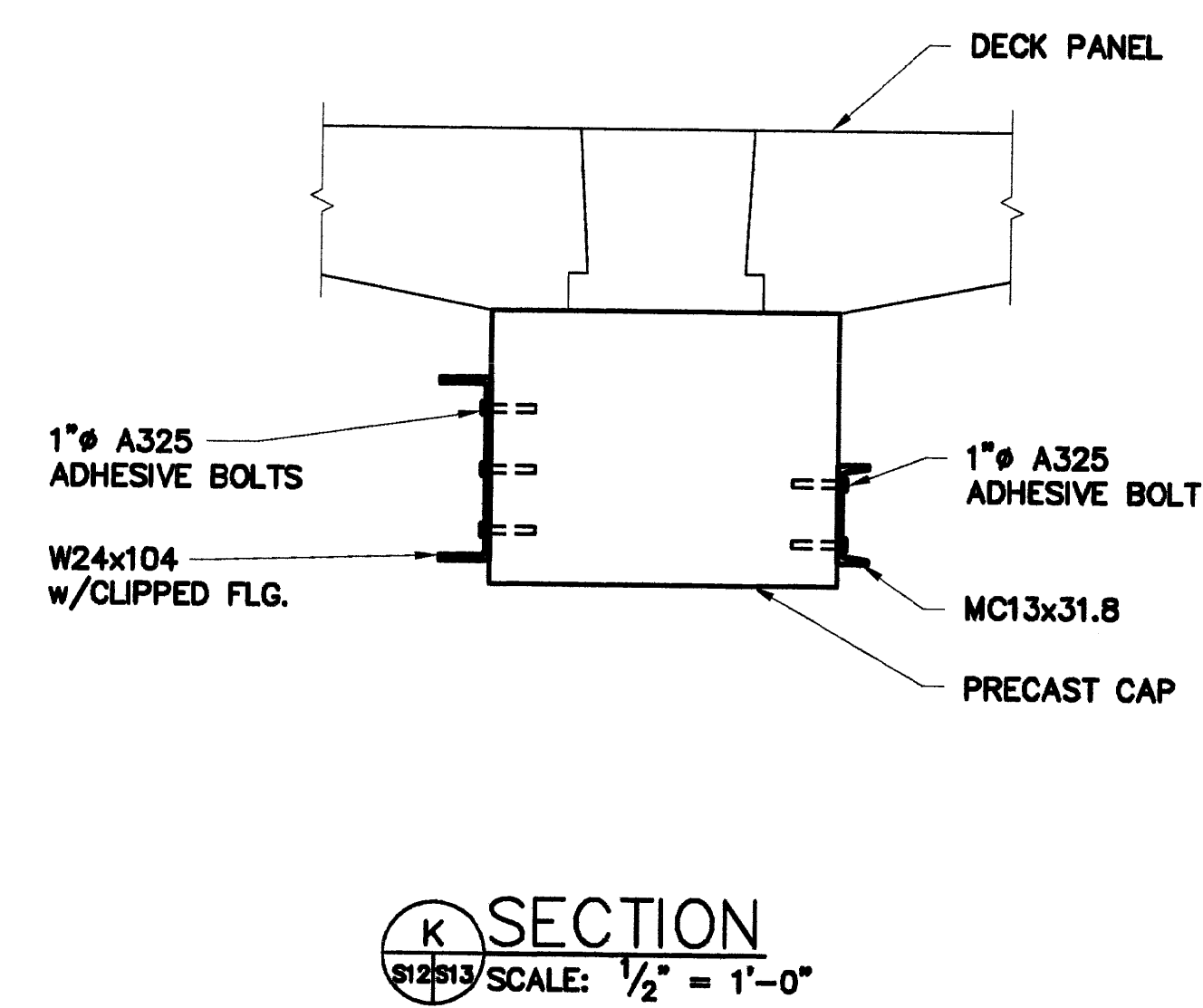
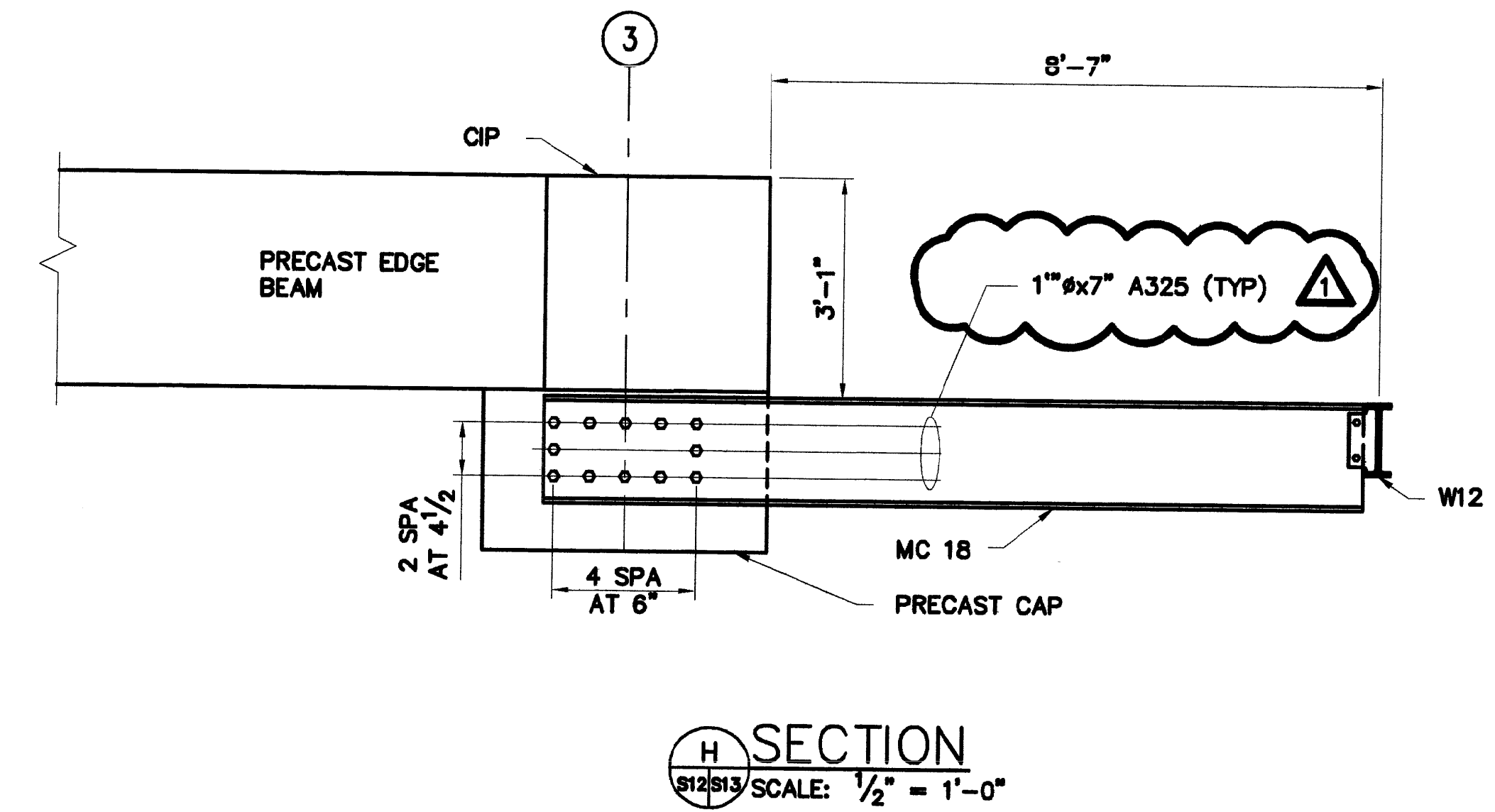
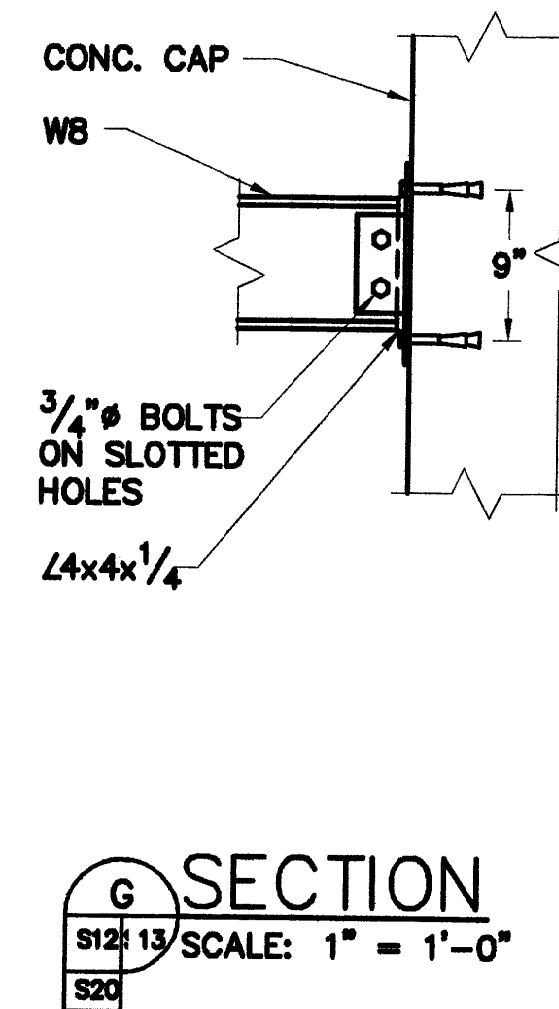
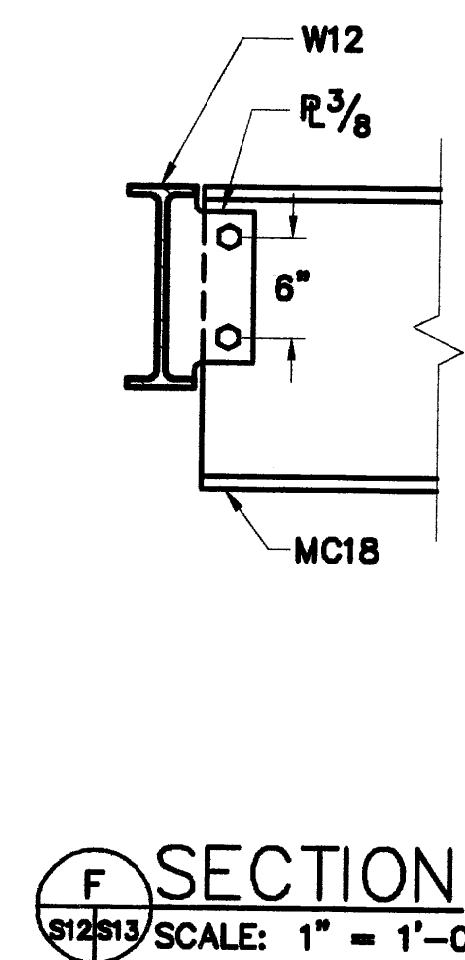
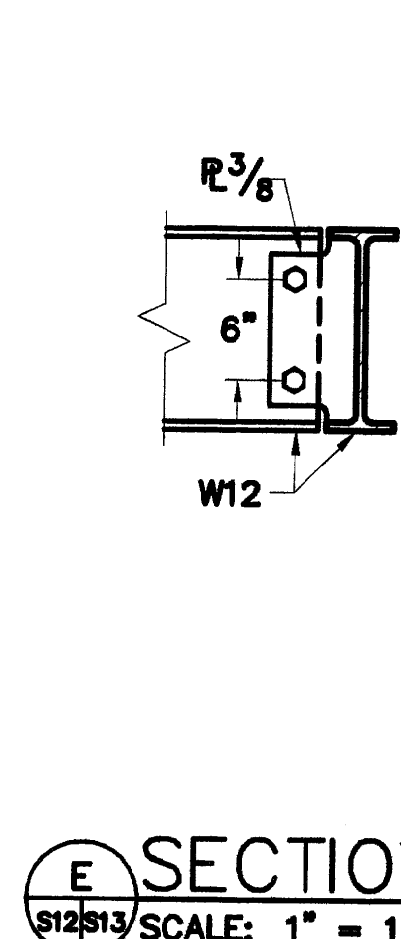
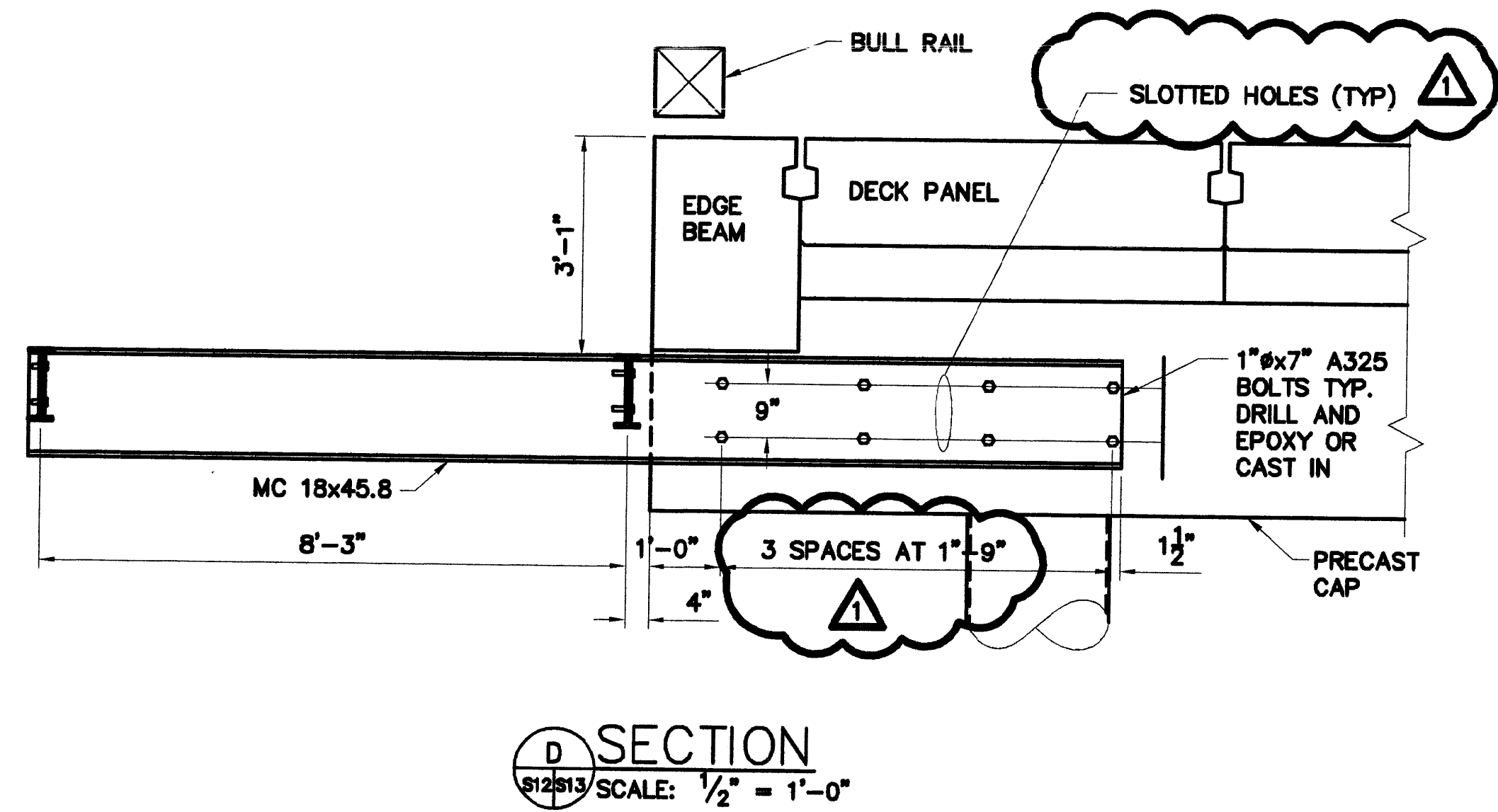
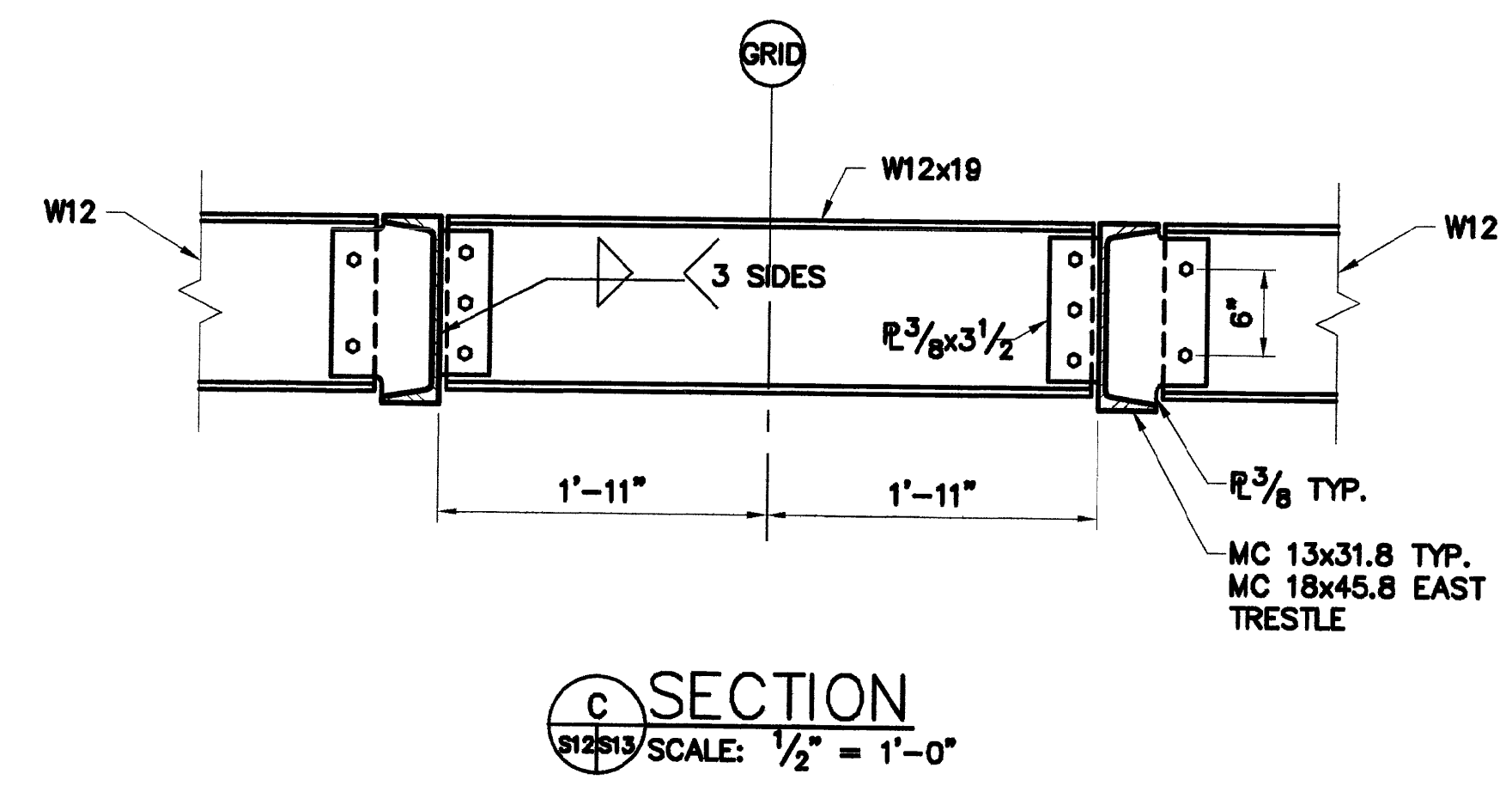
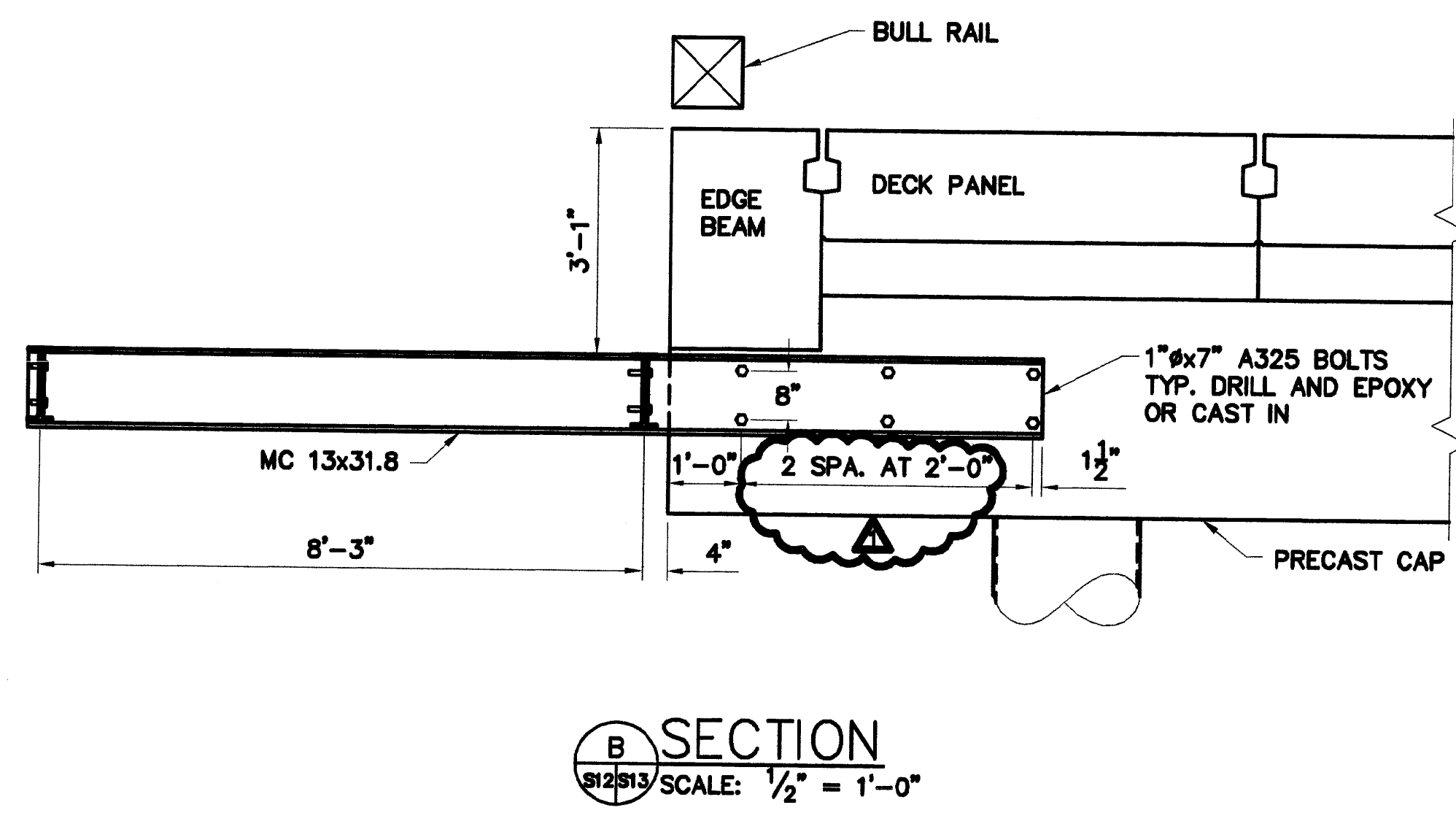
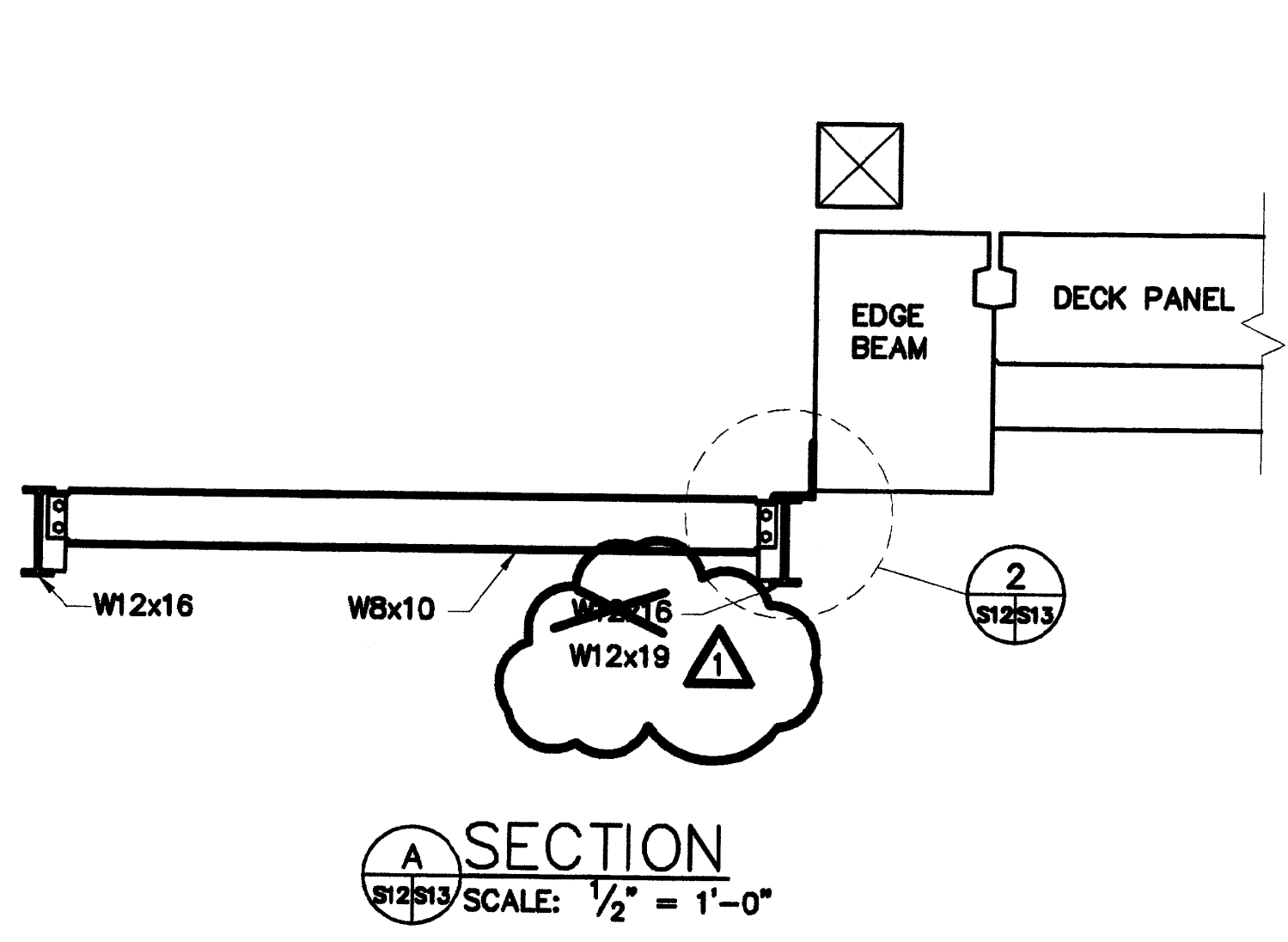
STATE OF ALASKA  
 No. CE 6478  
 Michael J. Shoemaker  
 PROFESSIONAL ENGINEER

CITY OF HOMER  
 UTILITY TRESTLE PLANS  
 KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
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02107

PLOT SCALE: 1/4" = 1'-0" PLOT DATE: 02/12/03 PLOT: MEH



REV.	DATE	BY	CHK.	APP.	DESCRIPTION
1	02/03/13	MEH	BY	AS-BUILT	AS-BUILT

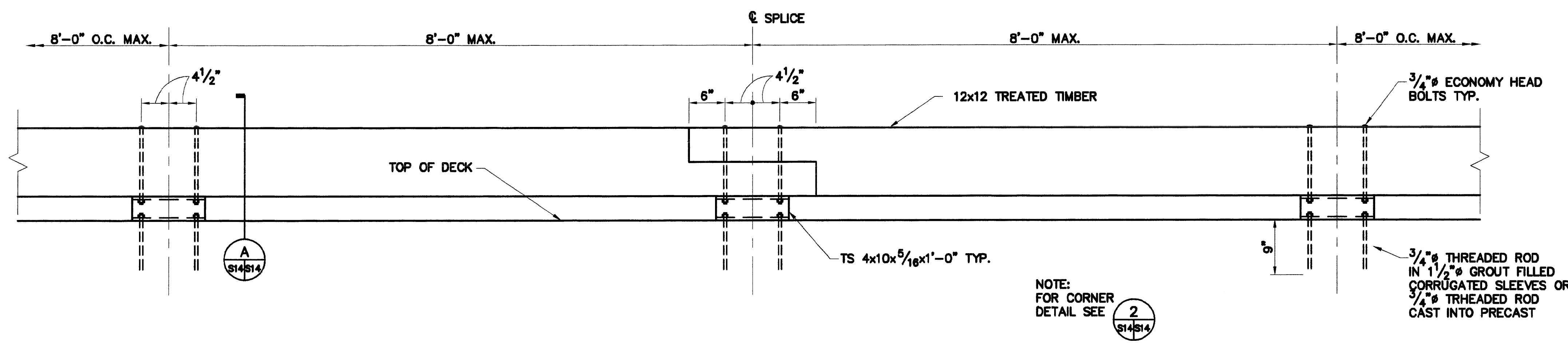
FIELD BOOKS	DESIGNED	MAIS	DRAWN	JWF	CHECKED	MAIS	DATE	JUNE 2003	SCALE	NOTED	NO.	REV.
									N/A		8239.0	

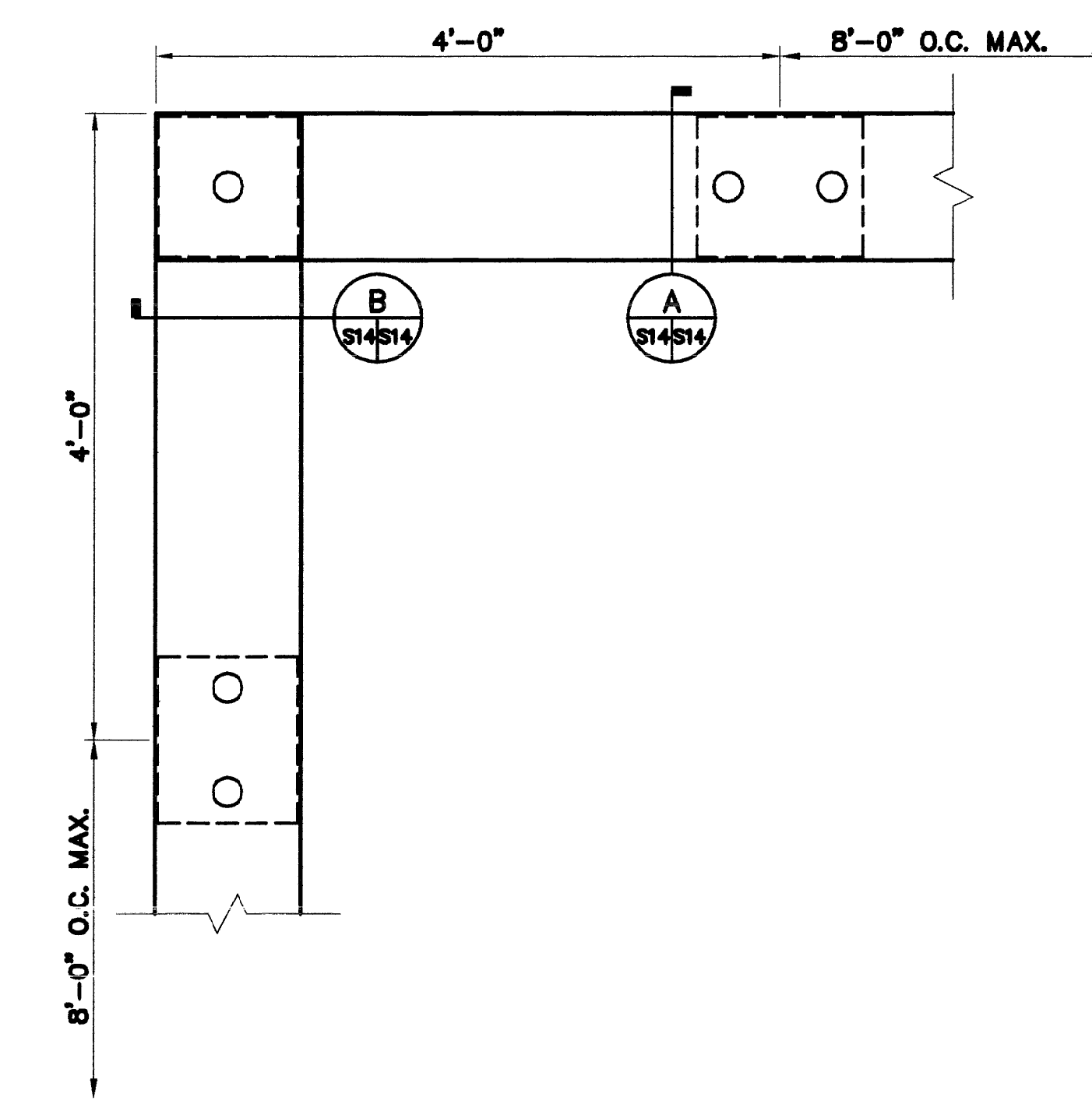
SHEET	NO.	TITLE
S13	47	CITY OF HOMER UTILITY TRESTLE DETAILS, AND SECTIONS KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

PLOT SCALE: 1:1 PLOT DATE: 06/12/03 PLOT VIEW: P1

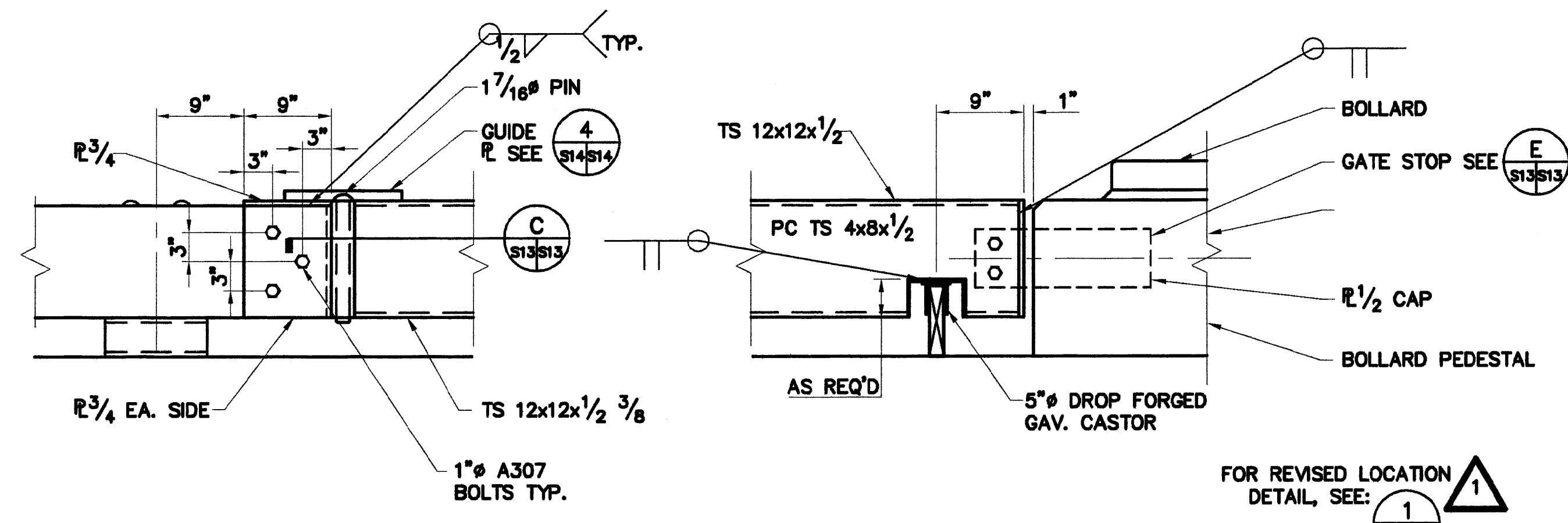




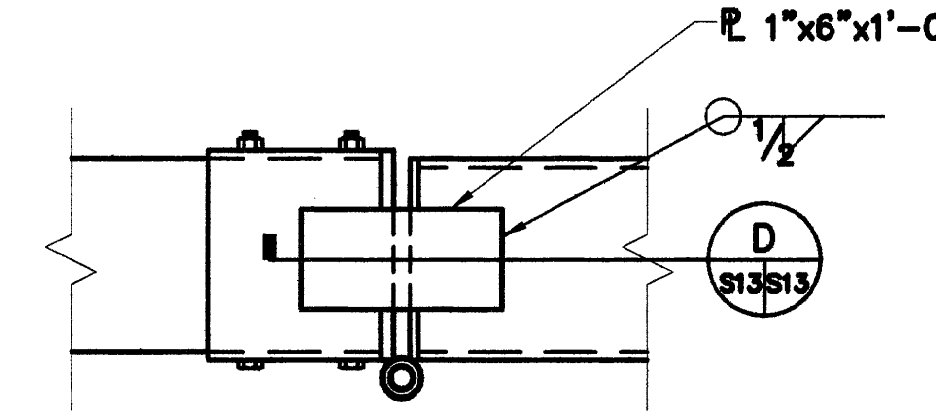
1 TYPICAL BULL RAIL DETAIL  
SCALE: 1" = 1'-0"



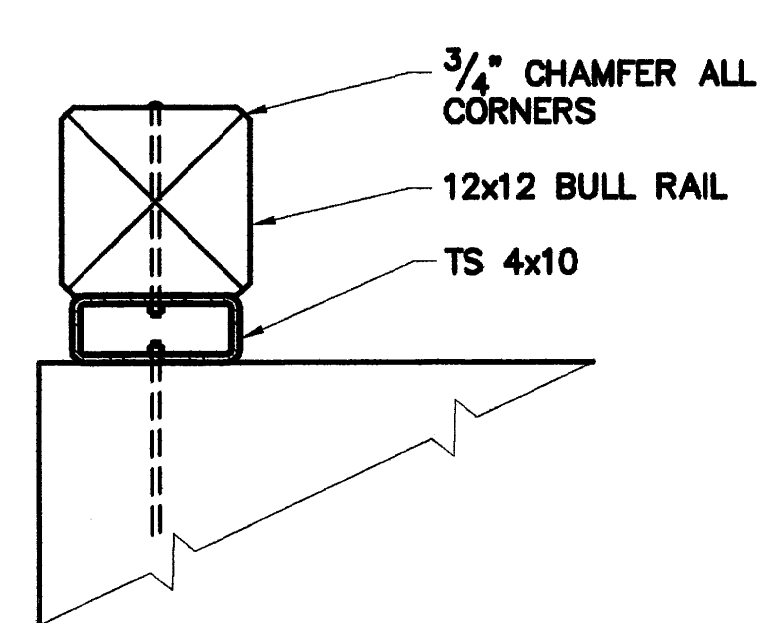
2 TYPICAL CORNER DETAIL  
SCALE: 1" = 1'-0"



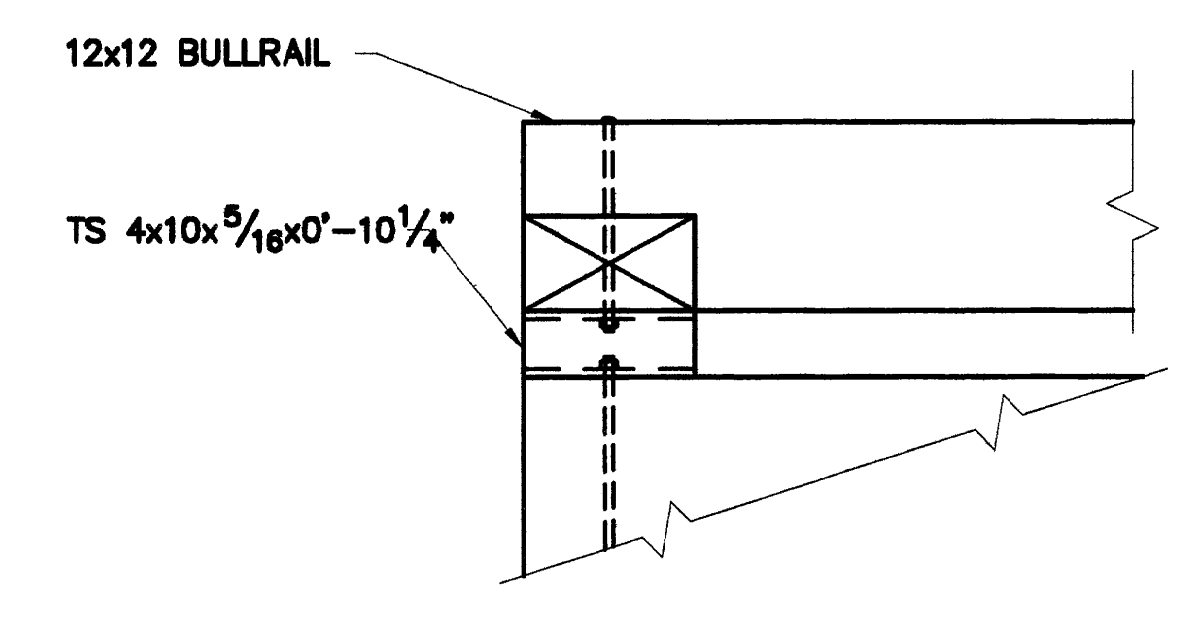
3 REMOVABLE BULL RAIL  
SCALE: 1" = 1'-0"



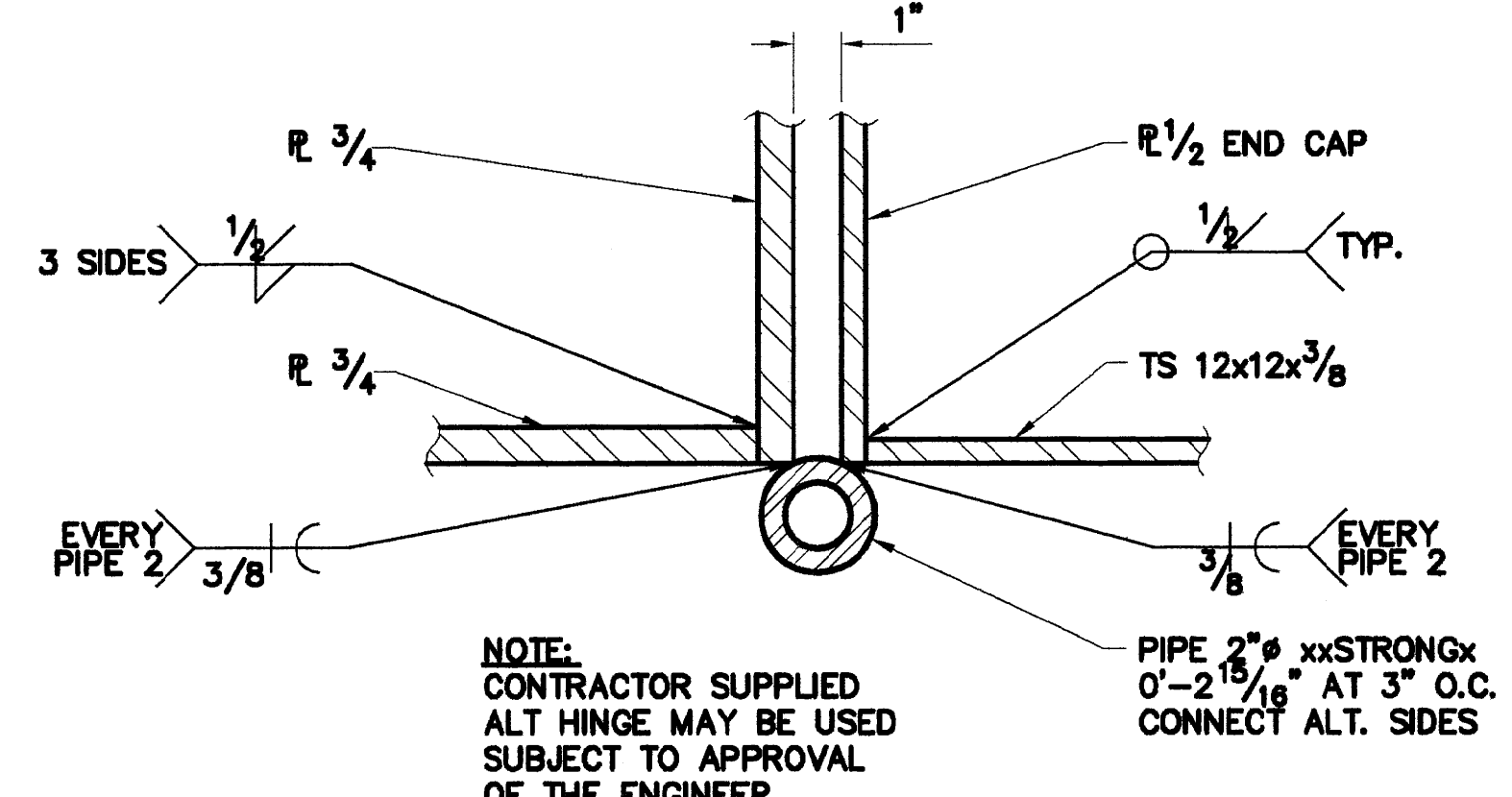
4 DETAIL  
SCALE: 1" = 1'-0"



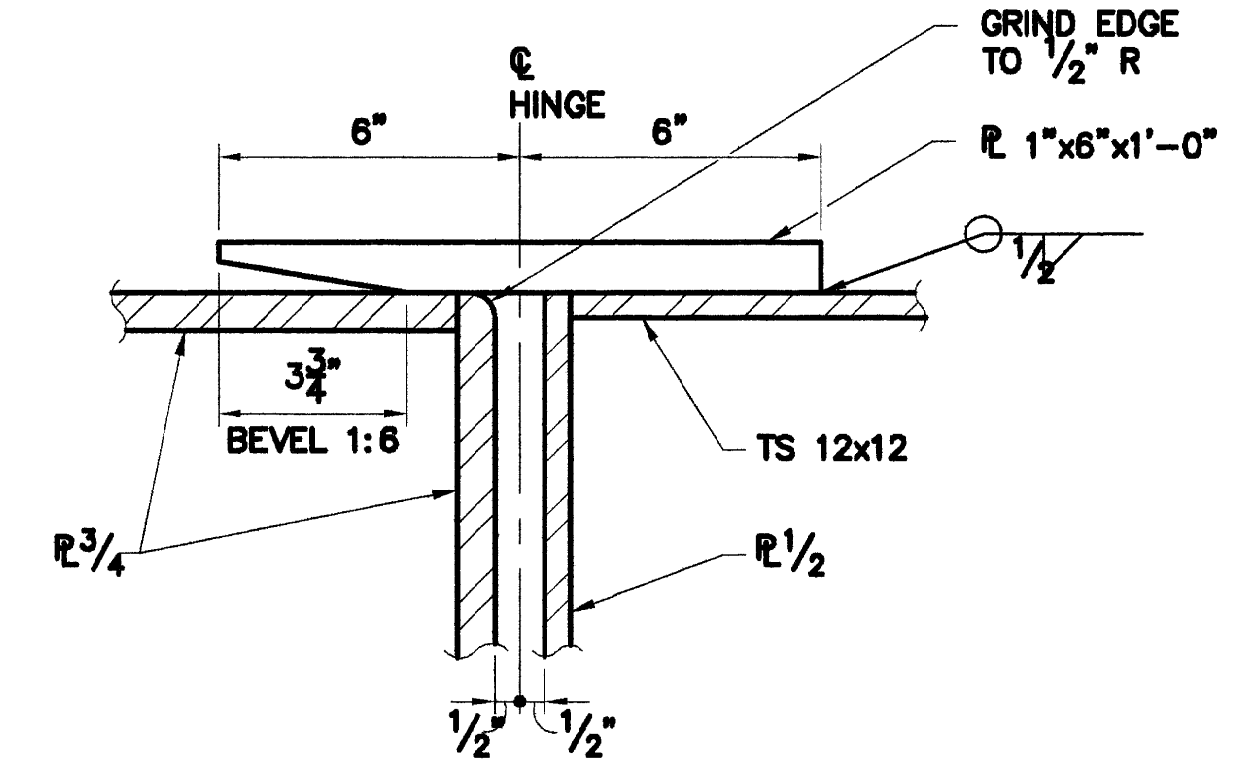
A SECTION  
SCALE: 1" = 1'-0"



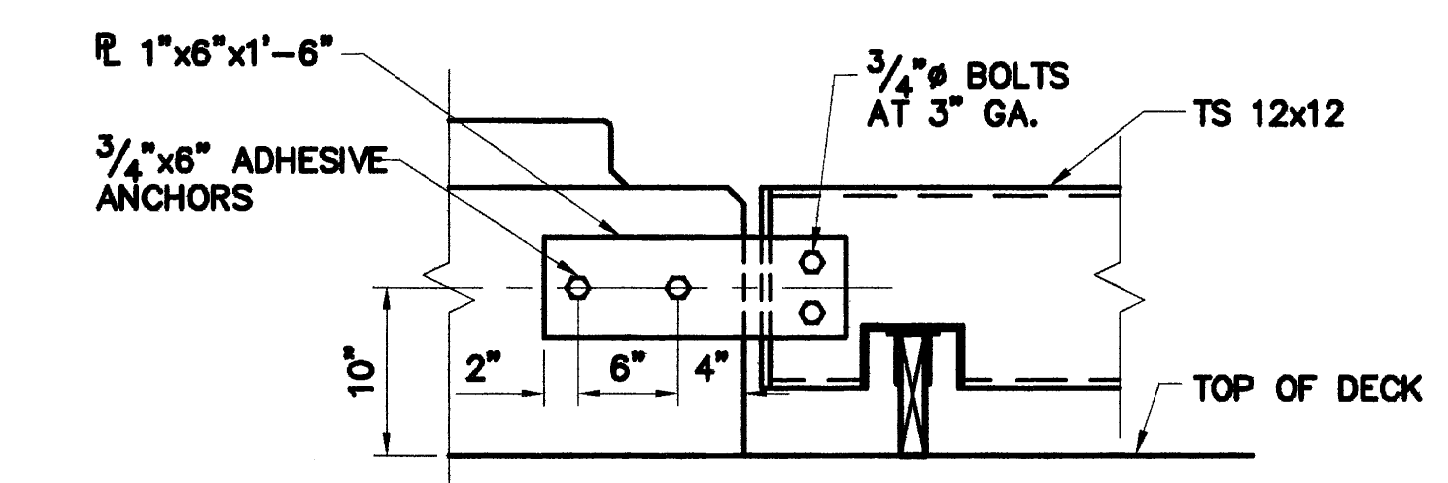
B SECTION  
SCALE: 1" = 1'-0"



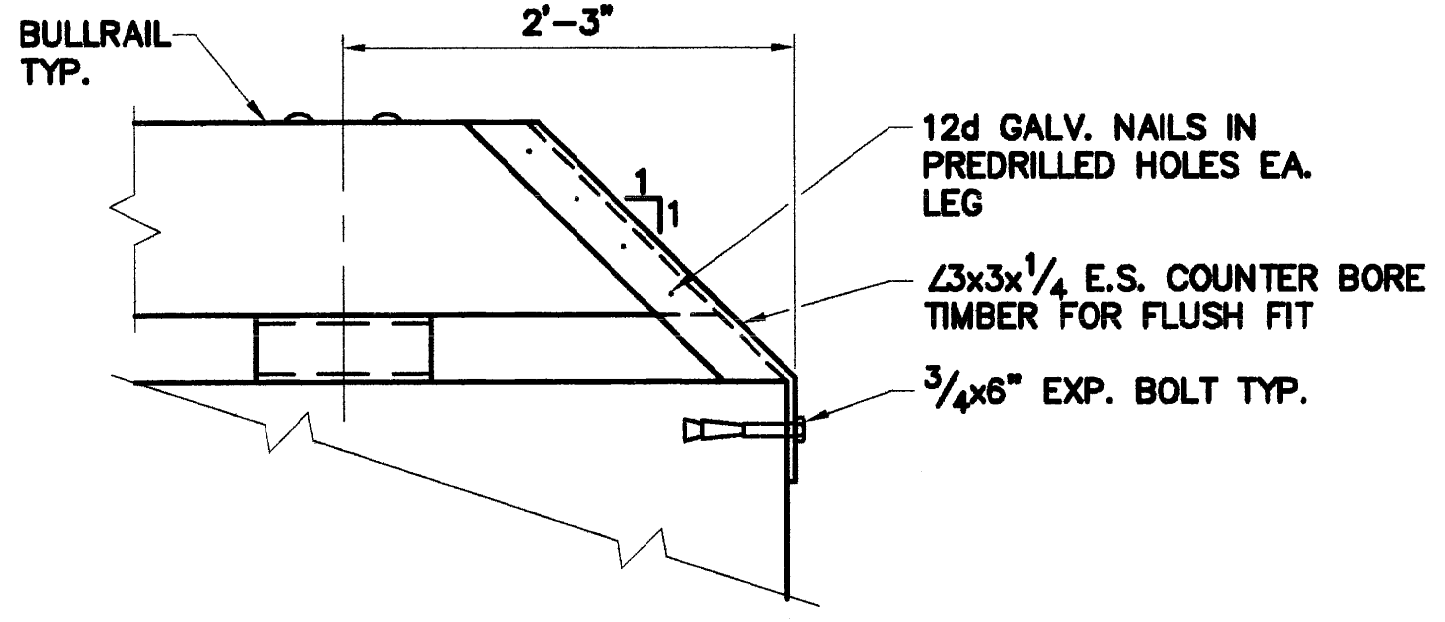
C SECTION  
SCALE: 3" = 1'-0"



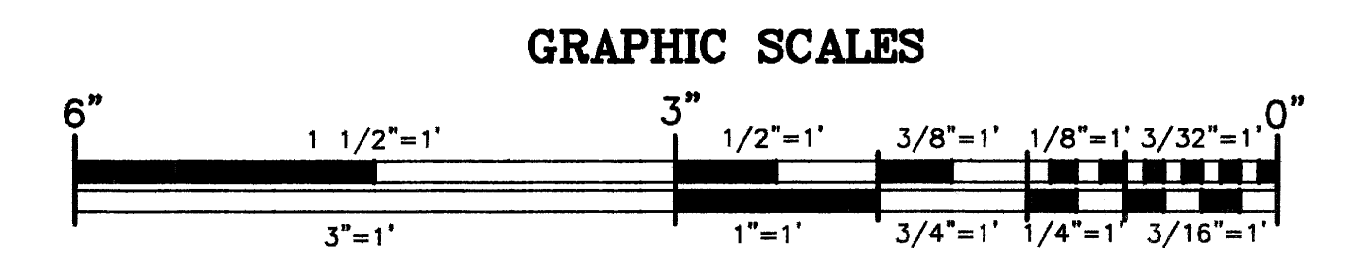
D SECTION  
SCALE: 3" = 1'-0"



E SECTION  
SCALE: 1" = 1'-0"



F TYPICAL END DETAIL  
SCALE: 1" = 1'-0"

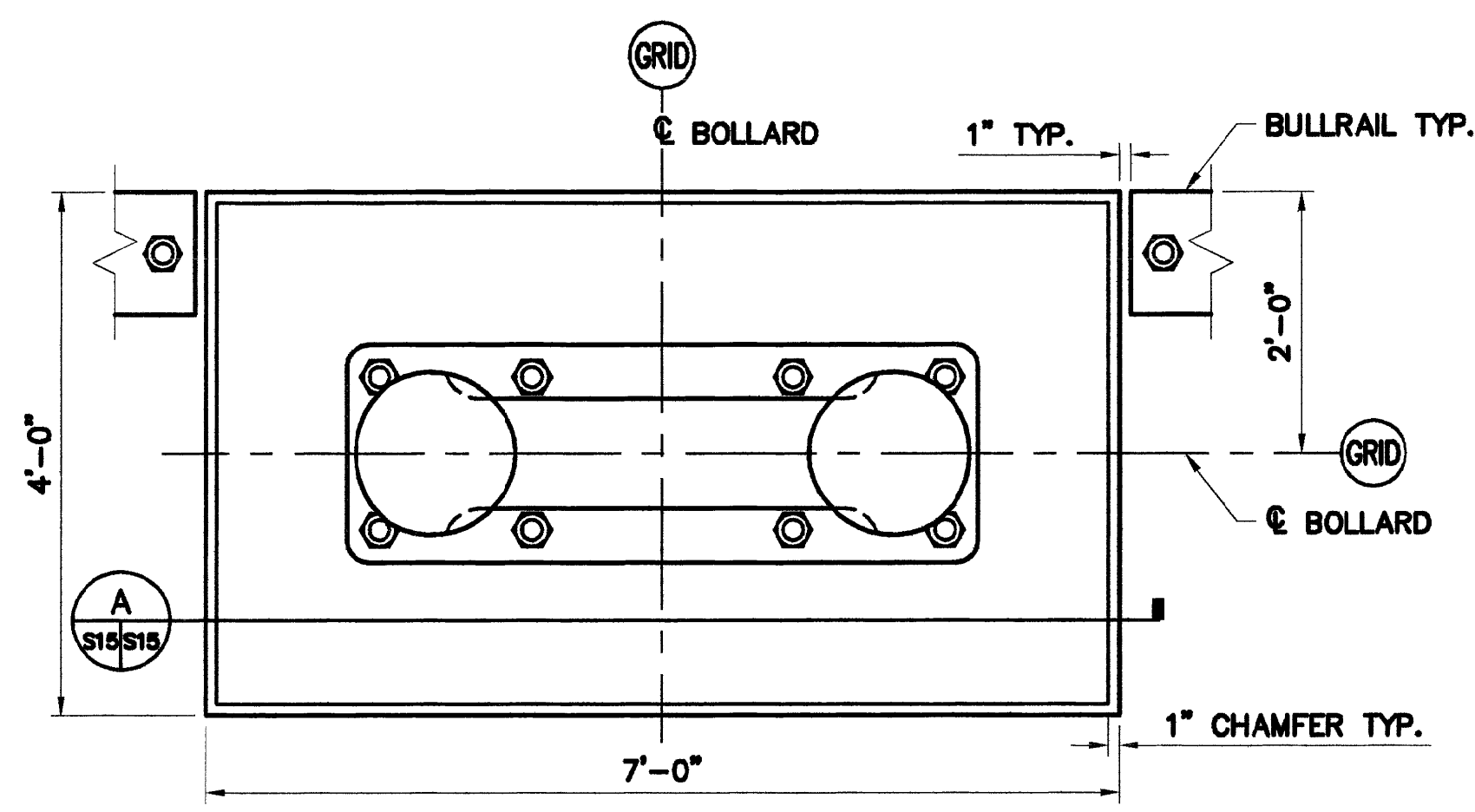


REVISION	DATE	BY	REV.	1	02/03	MEH	AS-BUILT
SCALE	NOTED	BY	DATE	02/03	MEH	AS-BUILT	02/03
NO.	DATE	BY	REV.	1	02/03	MEH	AS-BUILT
FIELD BOOKS	DESIGN	DATE	NO.	02/03	MEH	AS-BUILT	02/03
DESIGNED	DRAWN	CHECKED	DATE	02/03	MEH	AS-BUILT	02/03
DATE	NO.	BY	REV.	02/03	MEH	AS-BUILT	02/03
NO.	DATE	BY	REV.	02/03	MEH	AS-BUILT	02/03
NO.	DATE	BY	REV.	02/03	MEH	AS-BUILT	02/03
NO.	DATE	BY	REV.	02/03	MEH	AS-BUILT	02/03
NO.	DATE	BY	REV.	02/03	MEH	AS-BUILT	02/03
NO.	DATE	BY	REV.	02/03	MEH	AS-BUILT	02/03

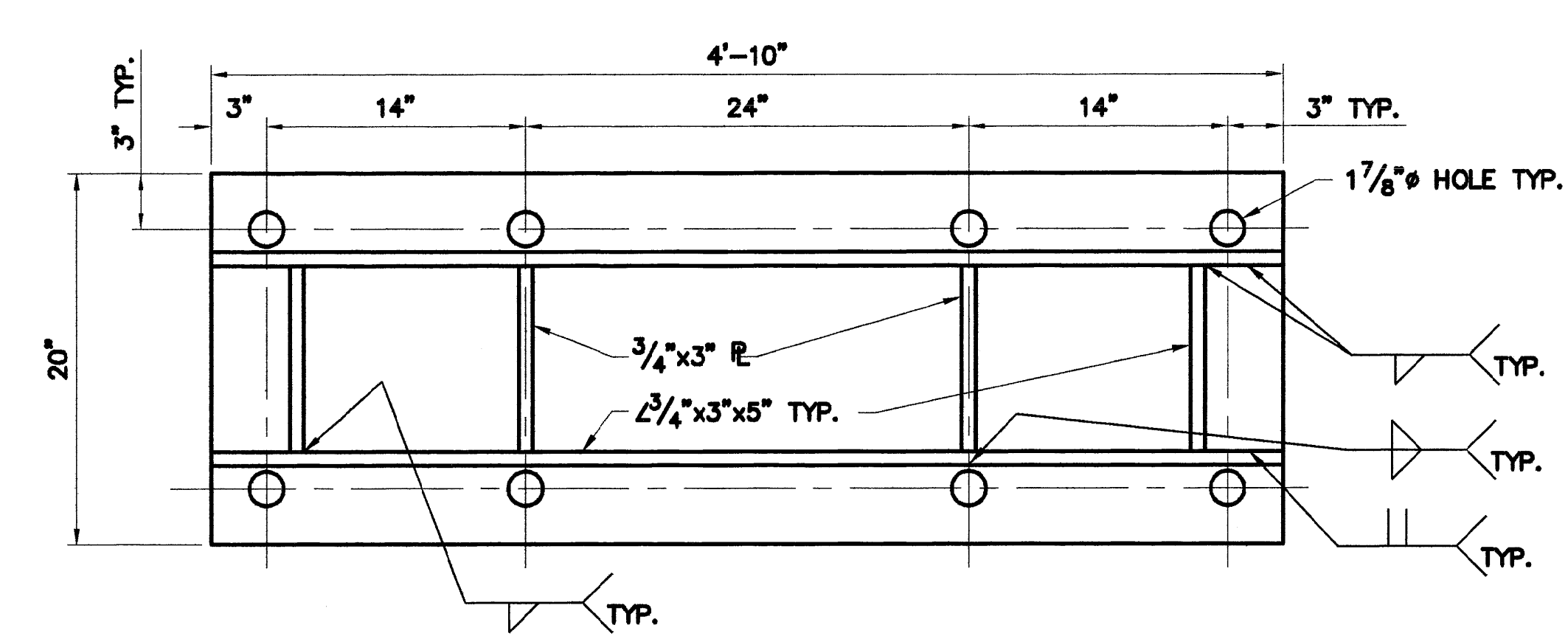
CITY OF HOMER  
BULL RAIL DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
14 OF 47  
FILE NO.  
8239014.DWG

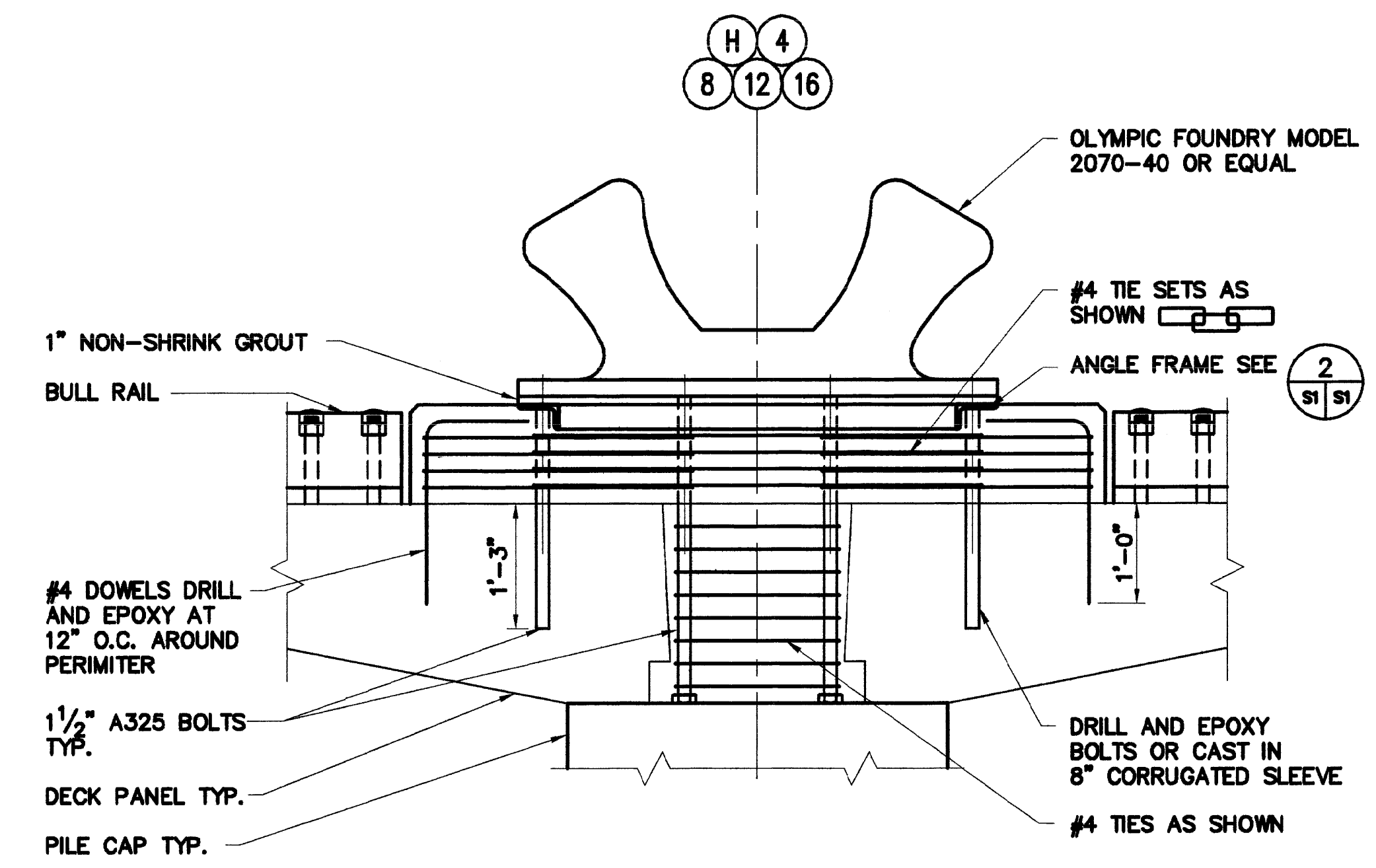




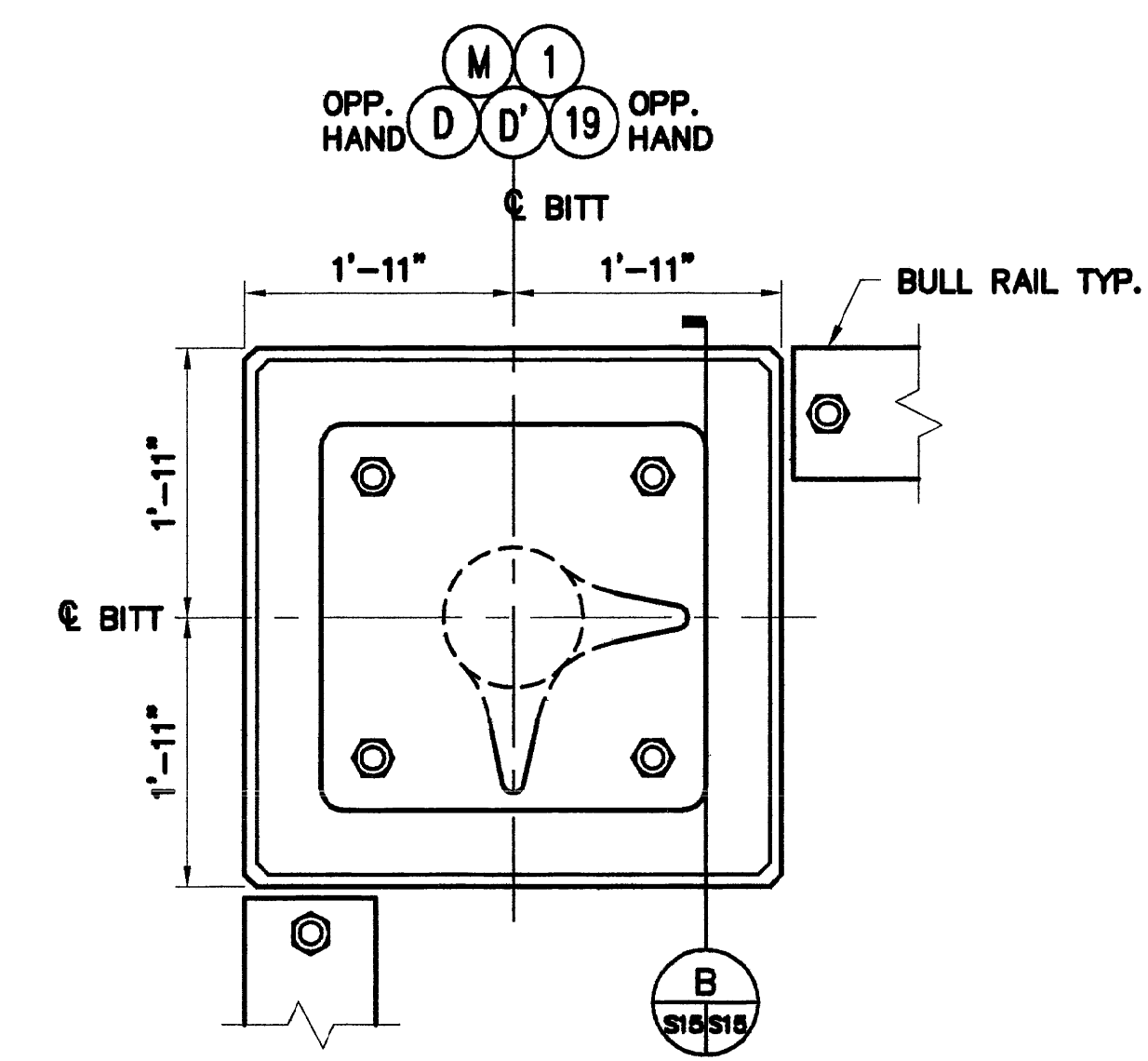
1 DOUBLE BITT BOLLARD PLAN  
SCALE: 3/4" = 1'-0"



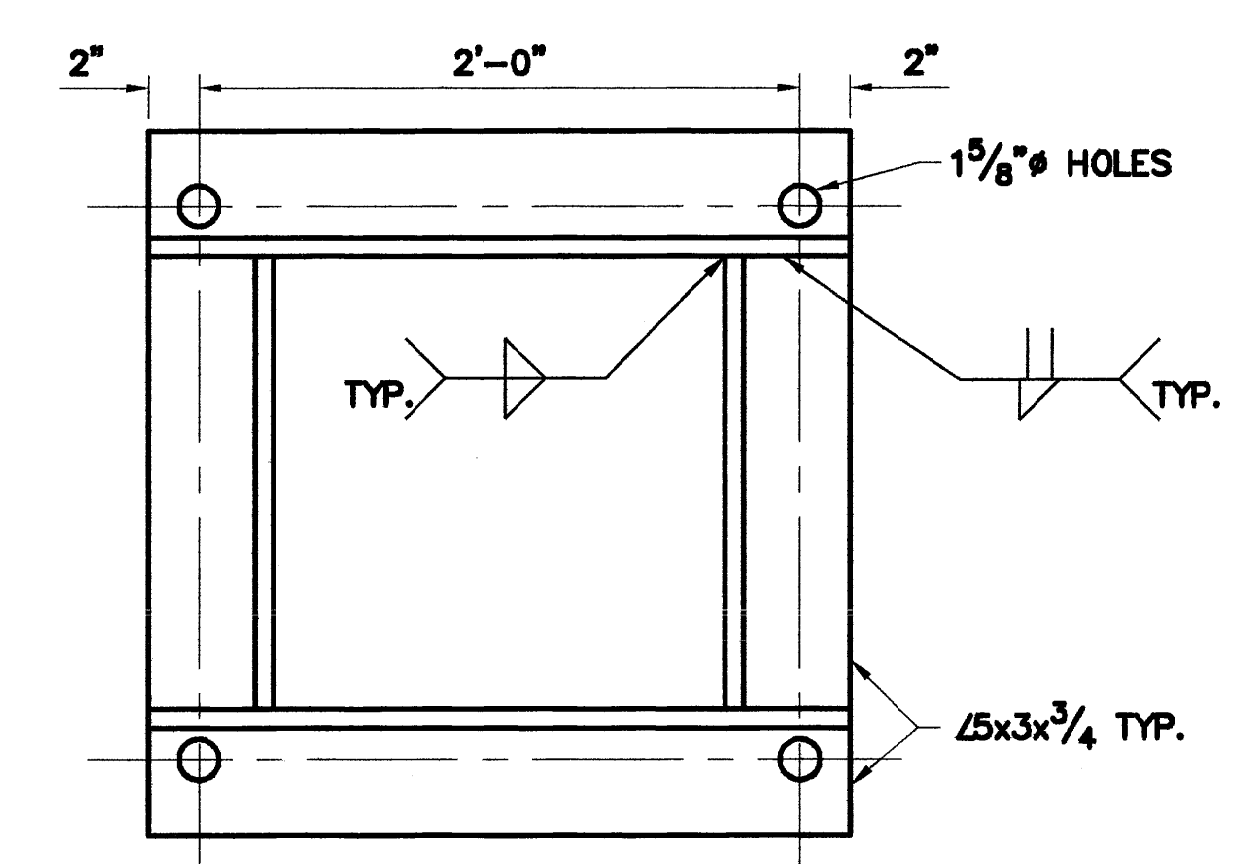
2 DETAIL  
SCALE: 1 1/2" = 1'-0"



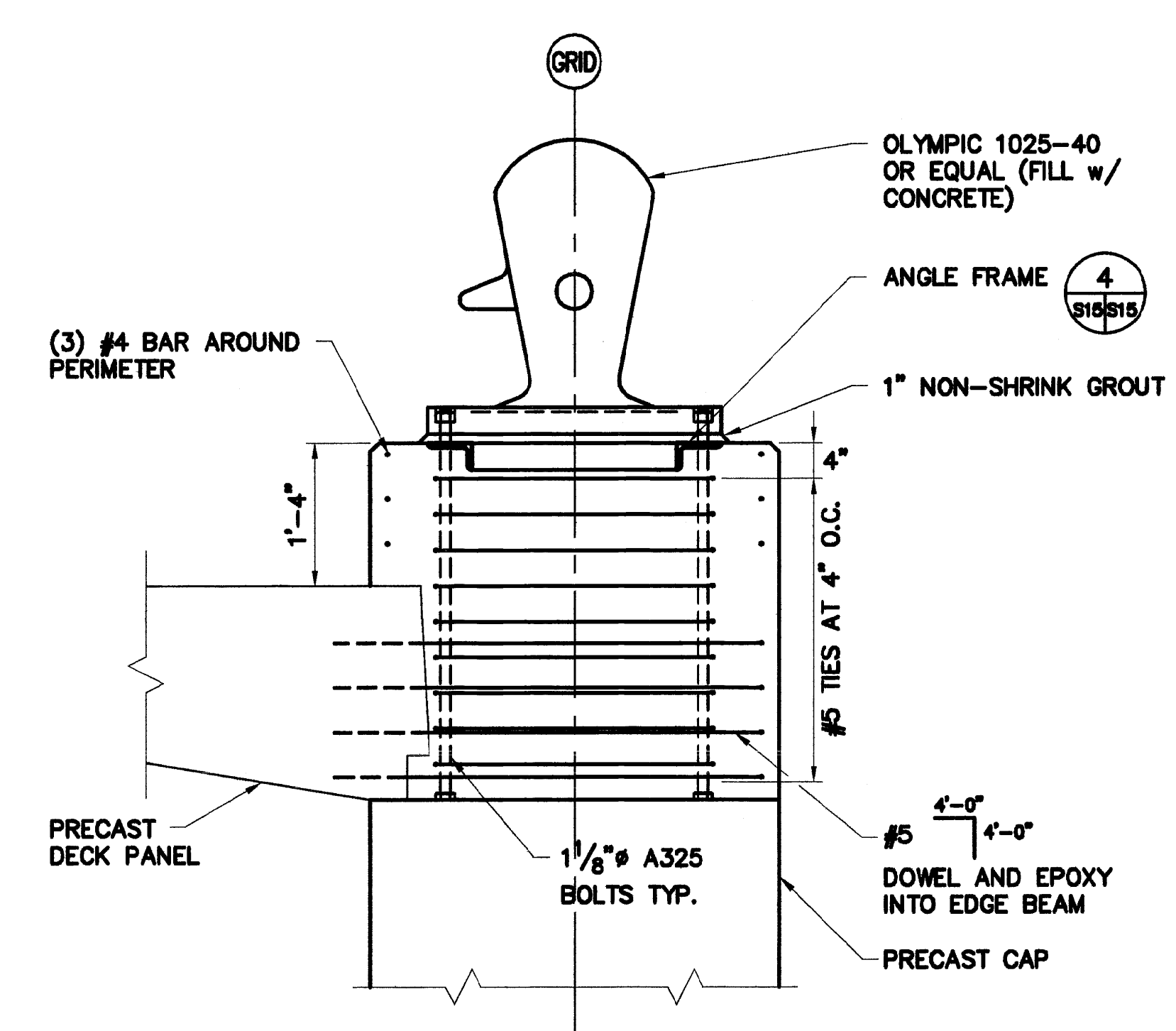
3 DOUBLE BITT BOLLARD SECTION  
SCALE: 3/4" = 1'-0"



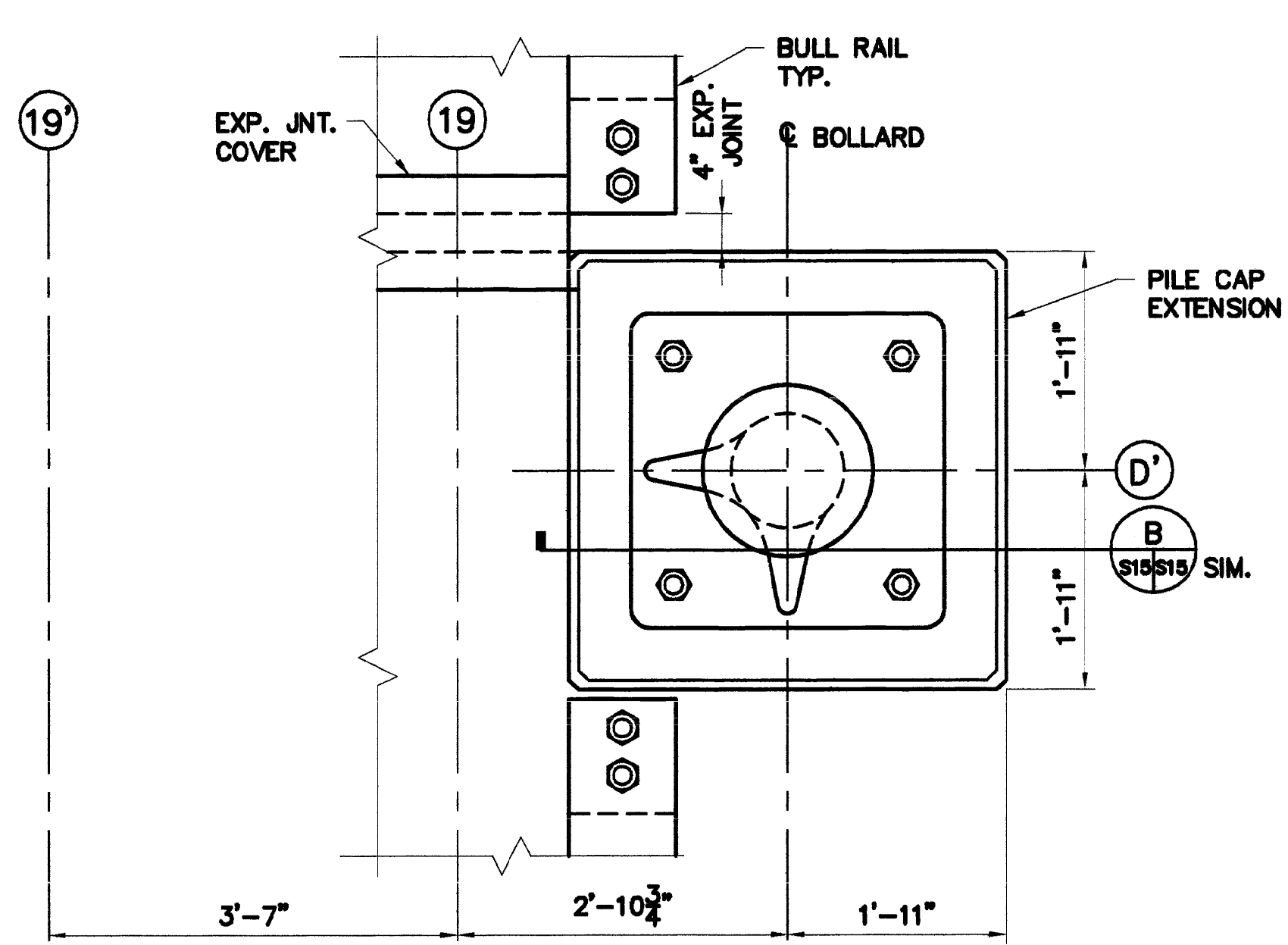
3 SINGLE BITT BOLLARD DETAIL  
SCALE: 3/4" = 1'-0"



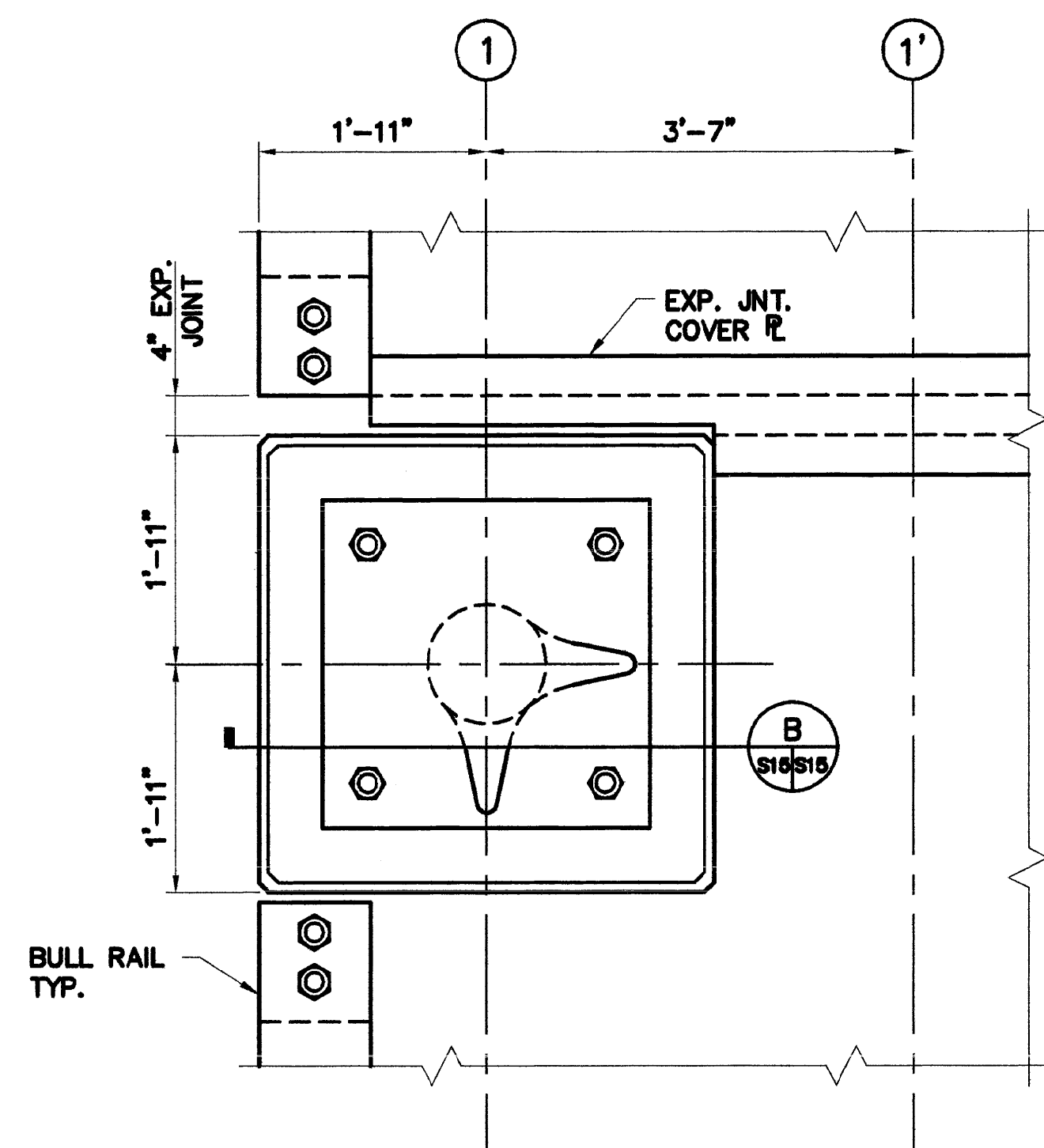
4 DETAIL  
SCALE: 1 1/2" = 1'-0"



5 SINGLE BITT BOLLARD SECTION  
SCALE: 3/4" = 1'-0"



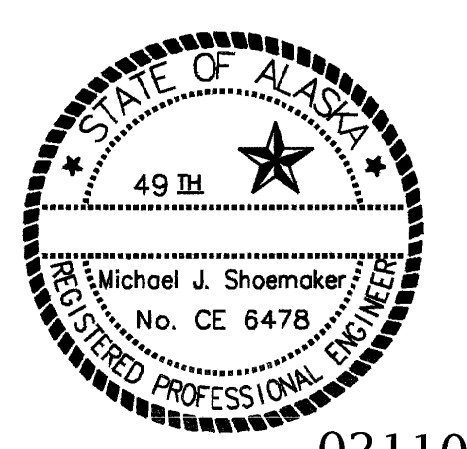
5 DETAIL  
SCALE: 3/4" = 1'-0"



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

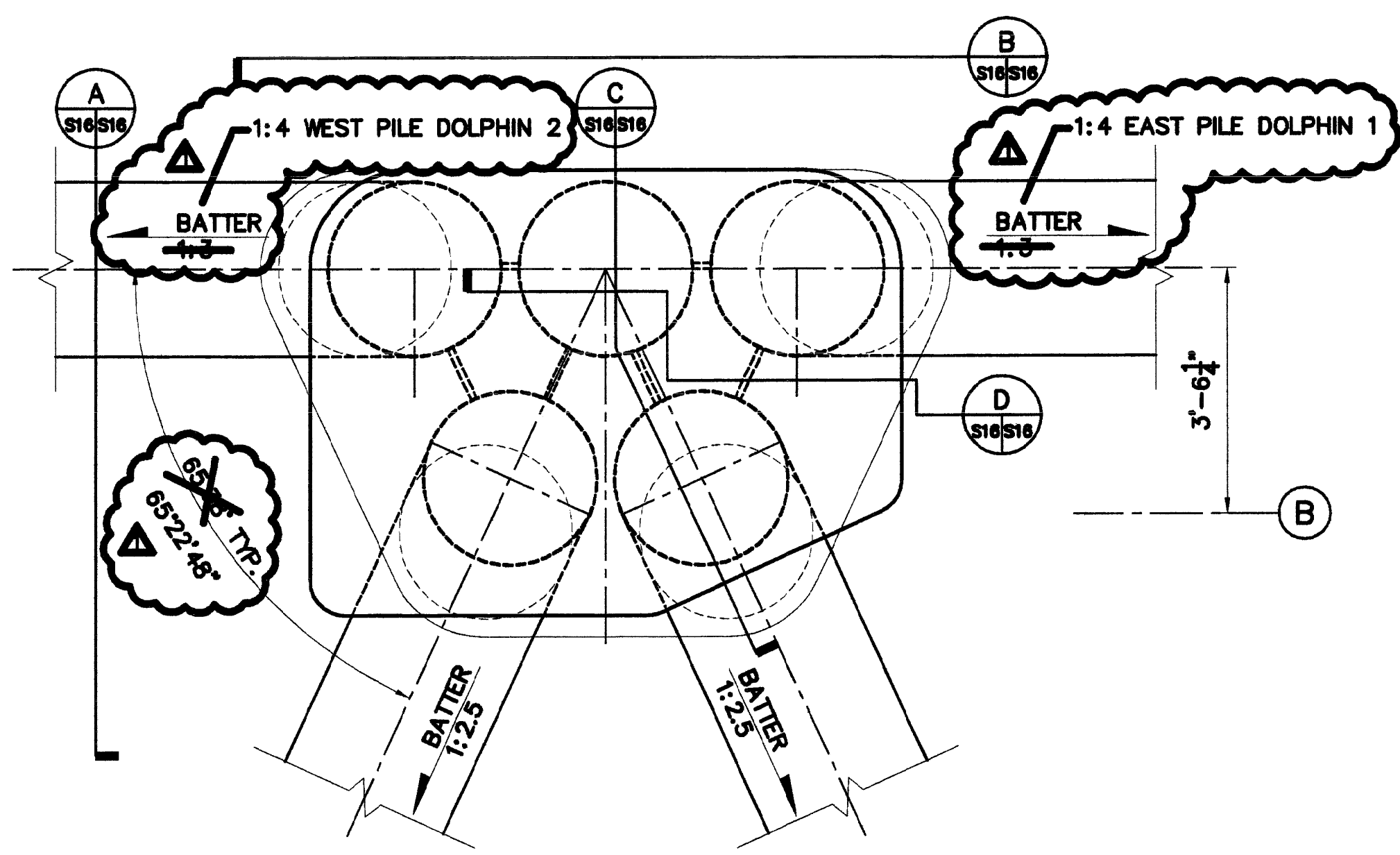
DESIGNED	M.J.S.	DATE	JUNE 2003
DRAWN	J.W.F.	CHECKED	M.J.S.
SCALE	NOTED	REV.	N/A
FIELD BOOKS		DATE	02/03
REV.	BY	DATE	02/03
AS-BUILT			

PROJECT	CITY OF HOMER
TITLE	BITTS AND BOLLARDS
DESCRIPTION	KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

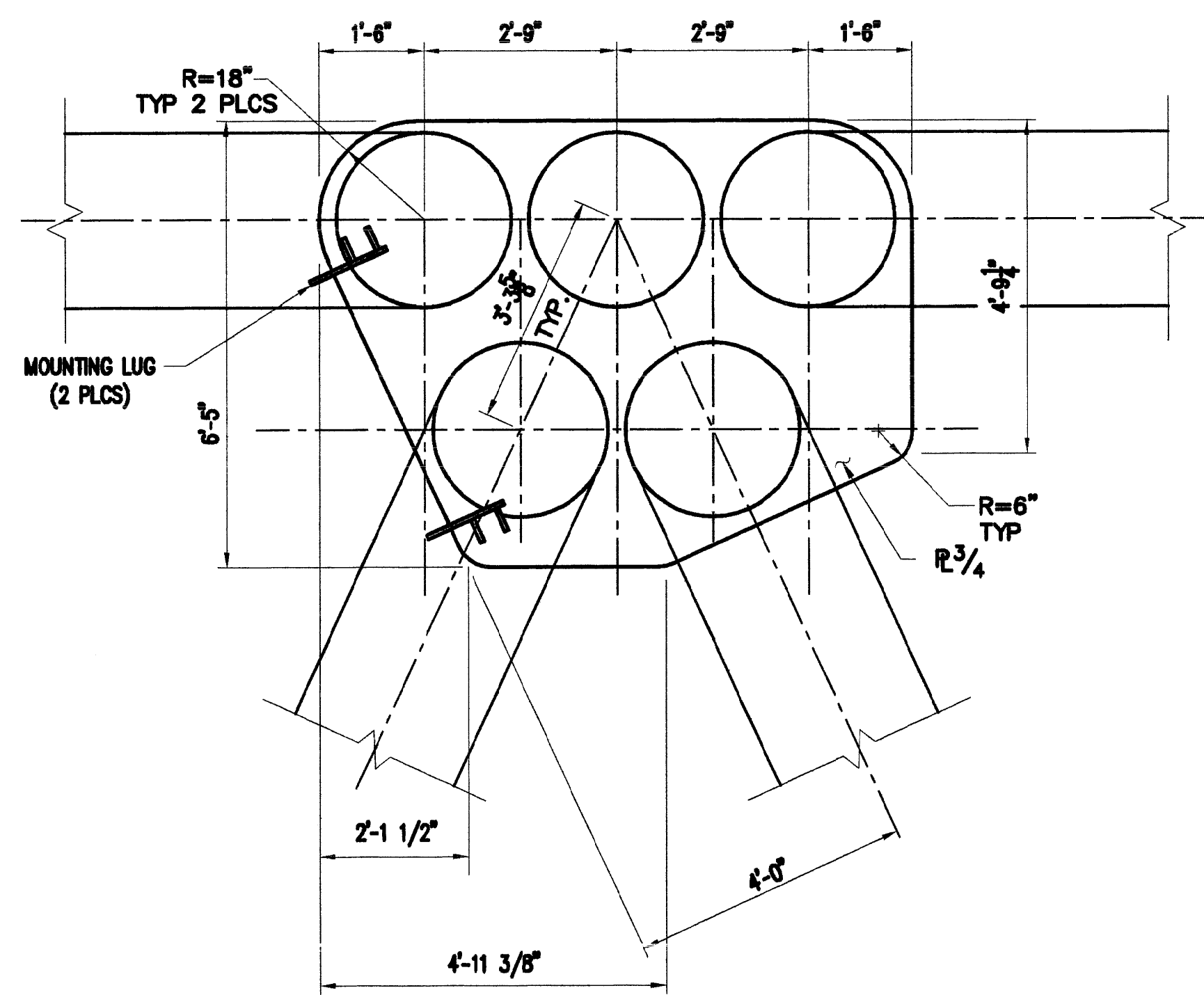


CITY OF HOMER  
BITTS AND BOLLARDS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK  
SHEET  
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FILE NO.  
8239\_S15.DWG  
02110

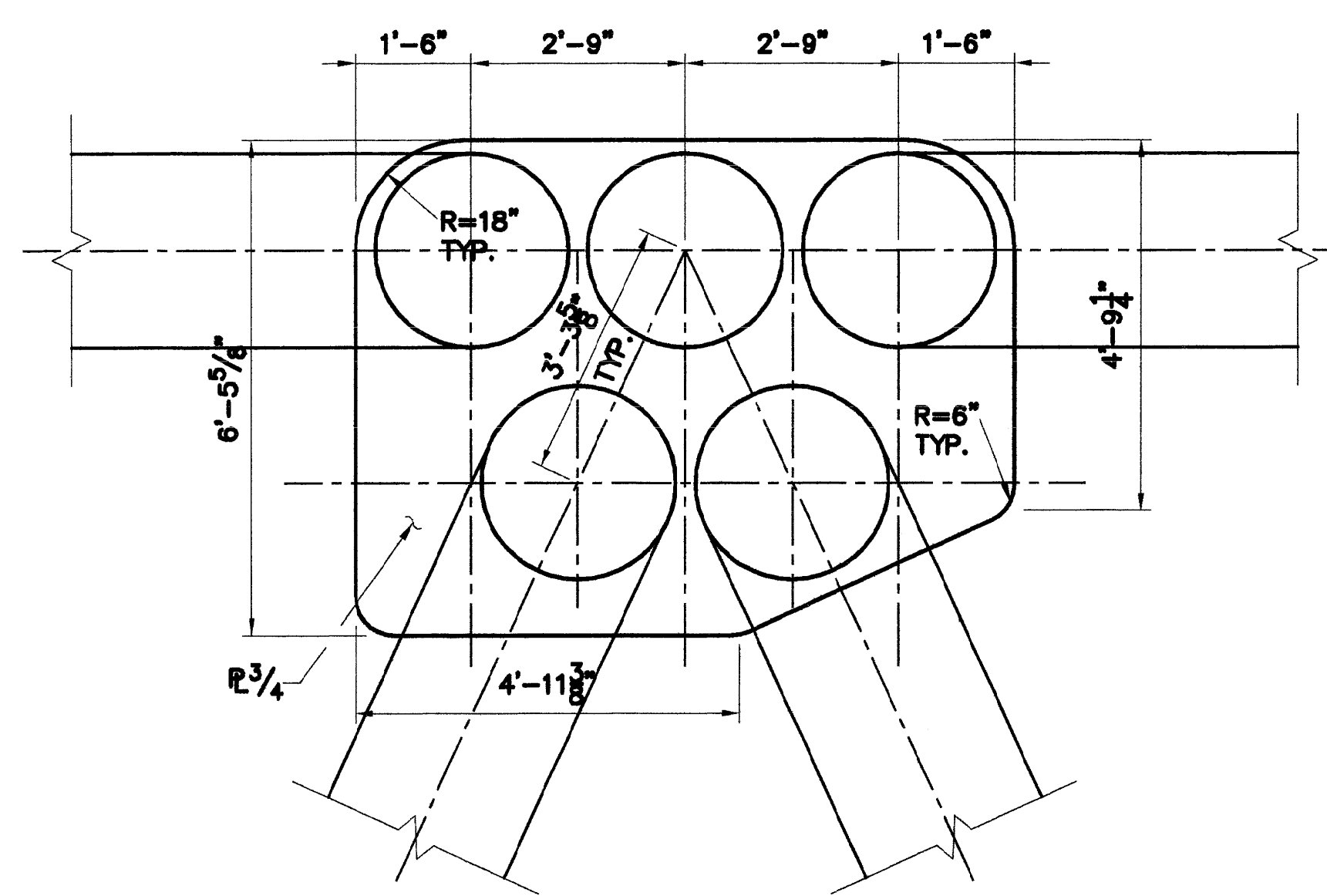




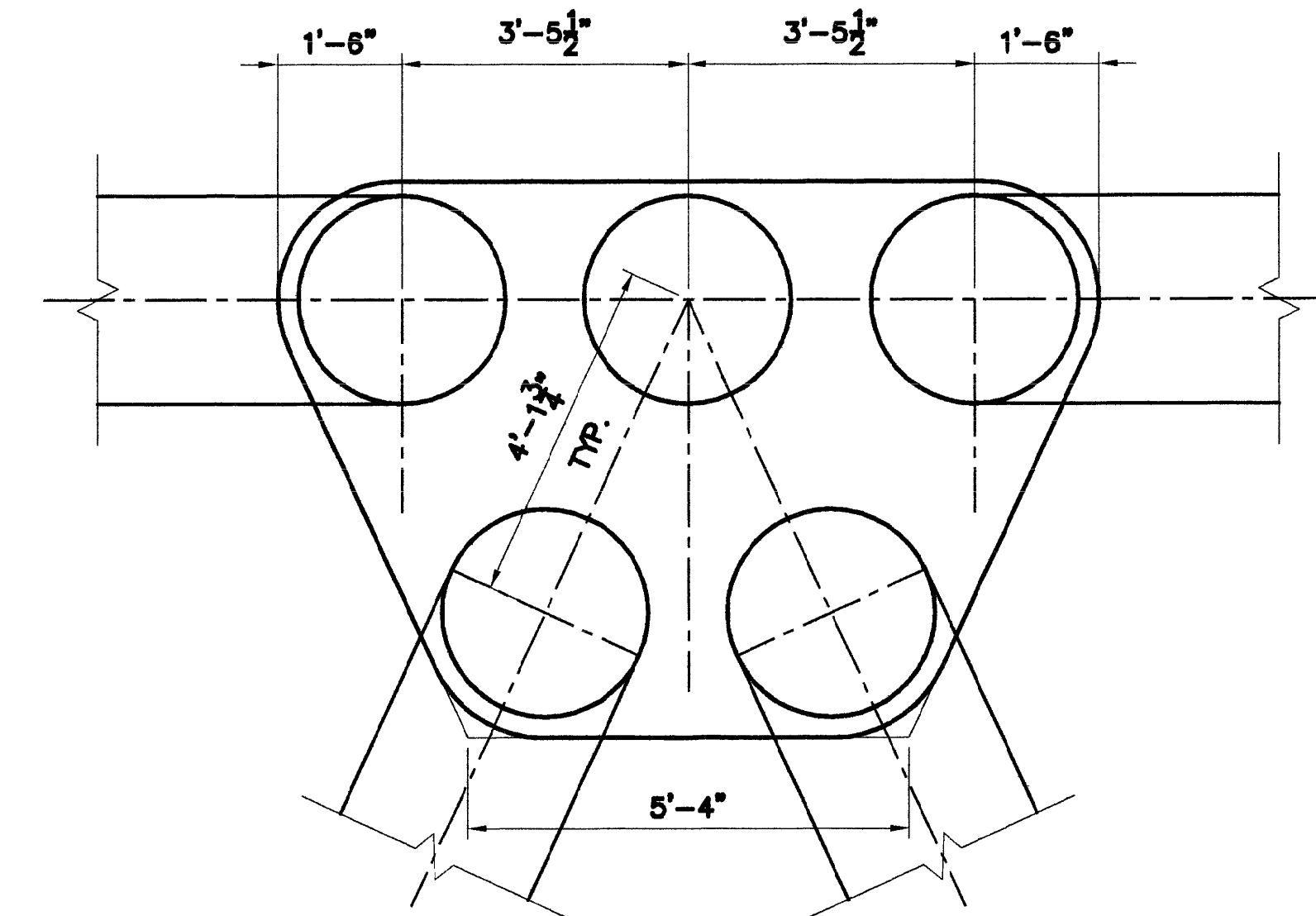
DOLPHIN PLAN



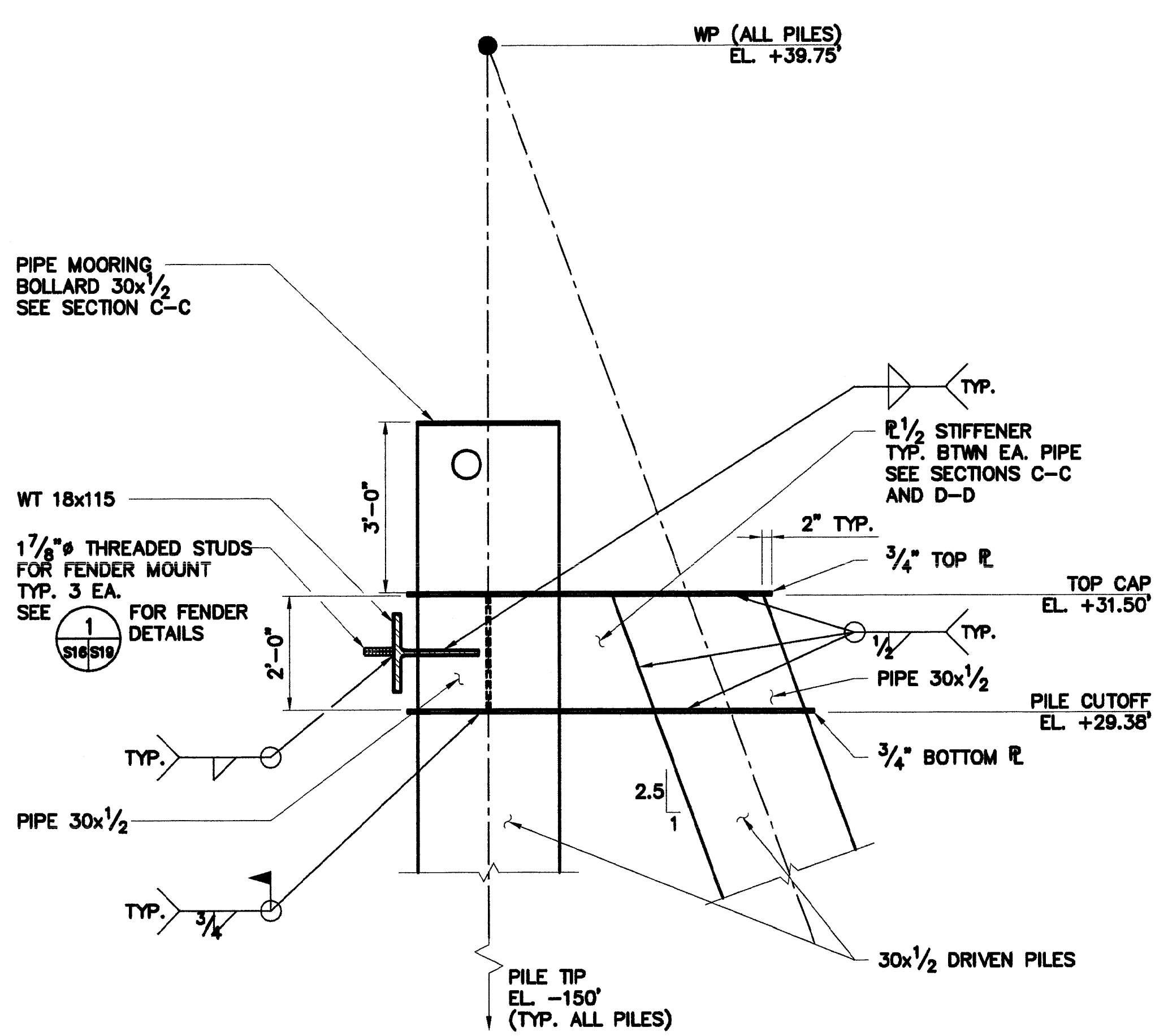
1 DOLPHIN 1 CAP - TOP PLATE  
SCALE: 1/2" = 1'-0"



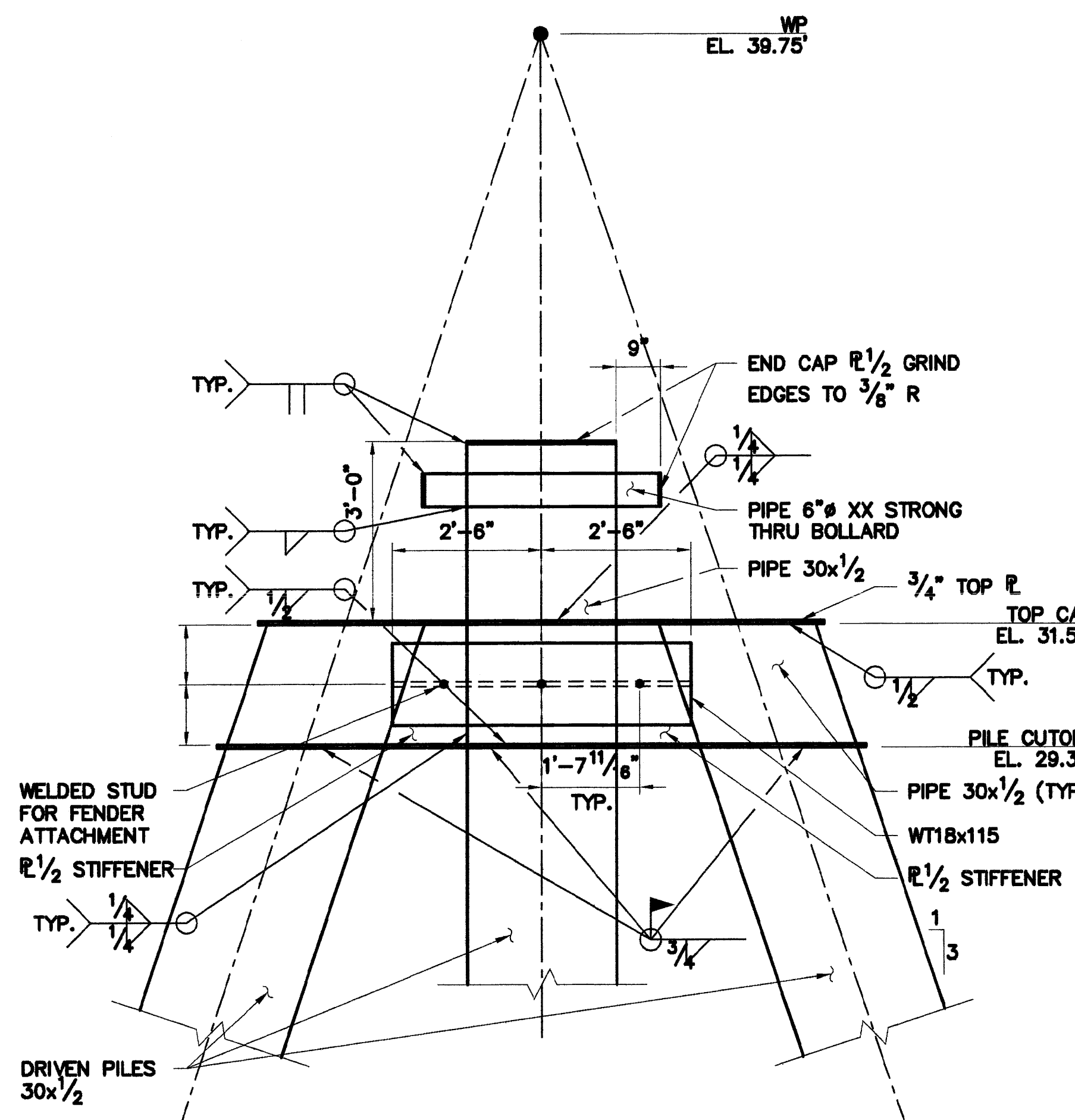
2 DOLPHIN 2 CAP - TOP PLATE  
SCALE: 1/2" = 1'-0"



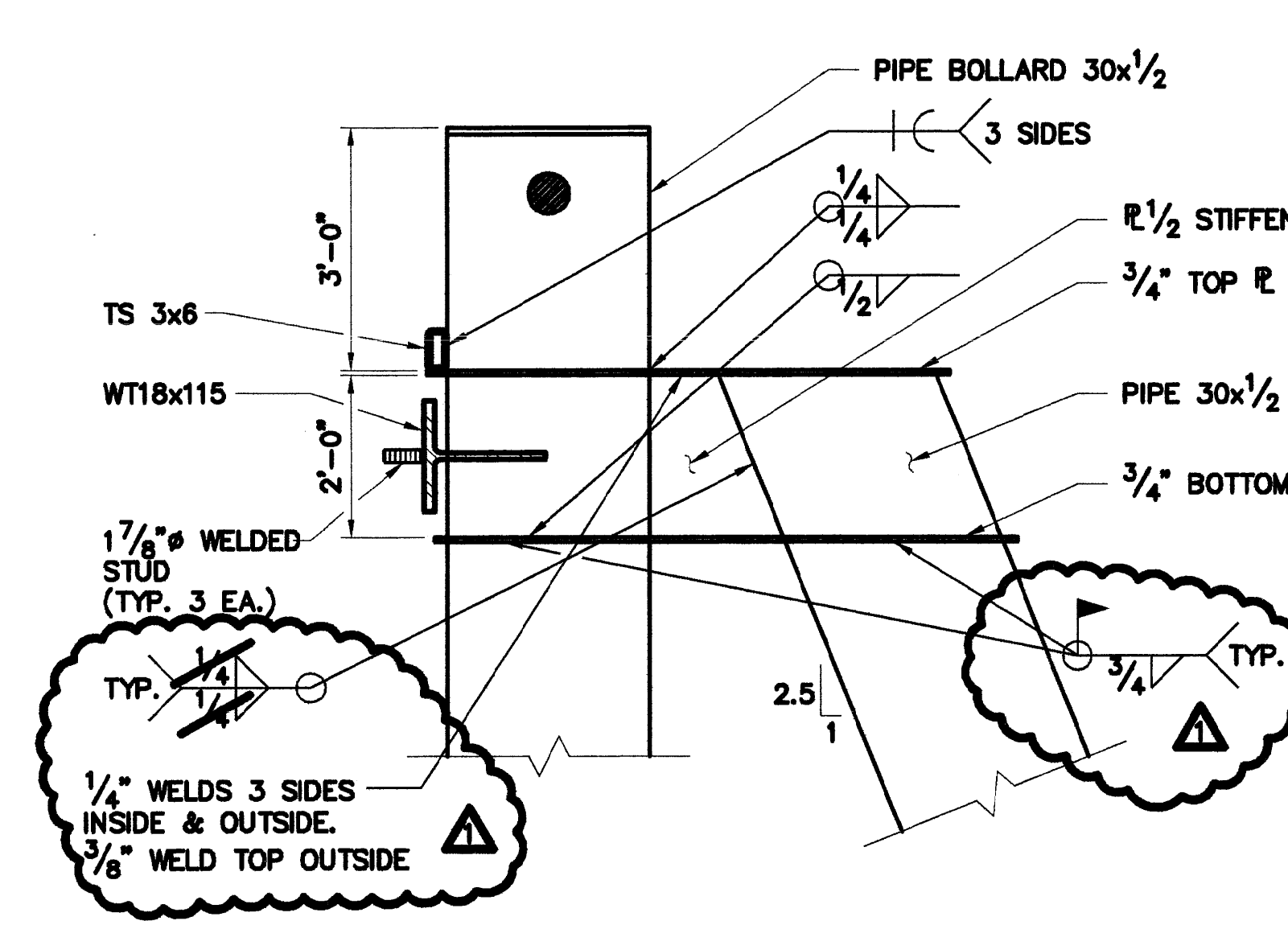
DOLPHIN CAP - BOTTOM PLATE



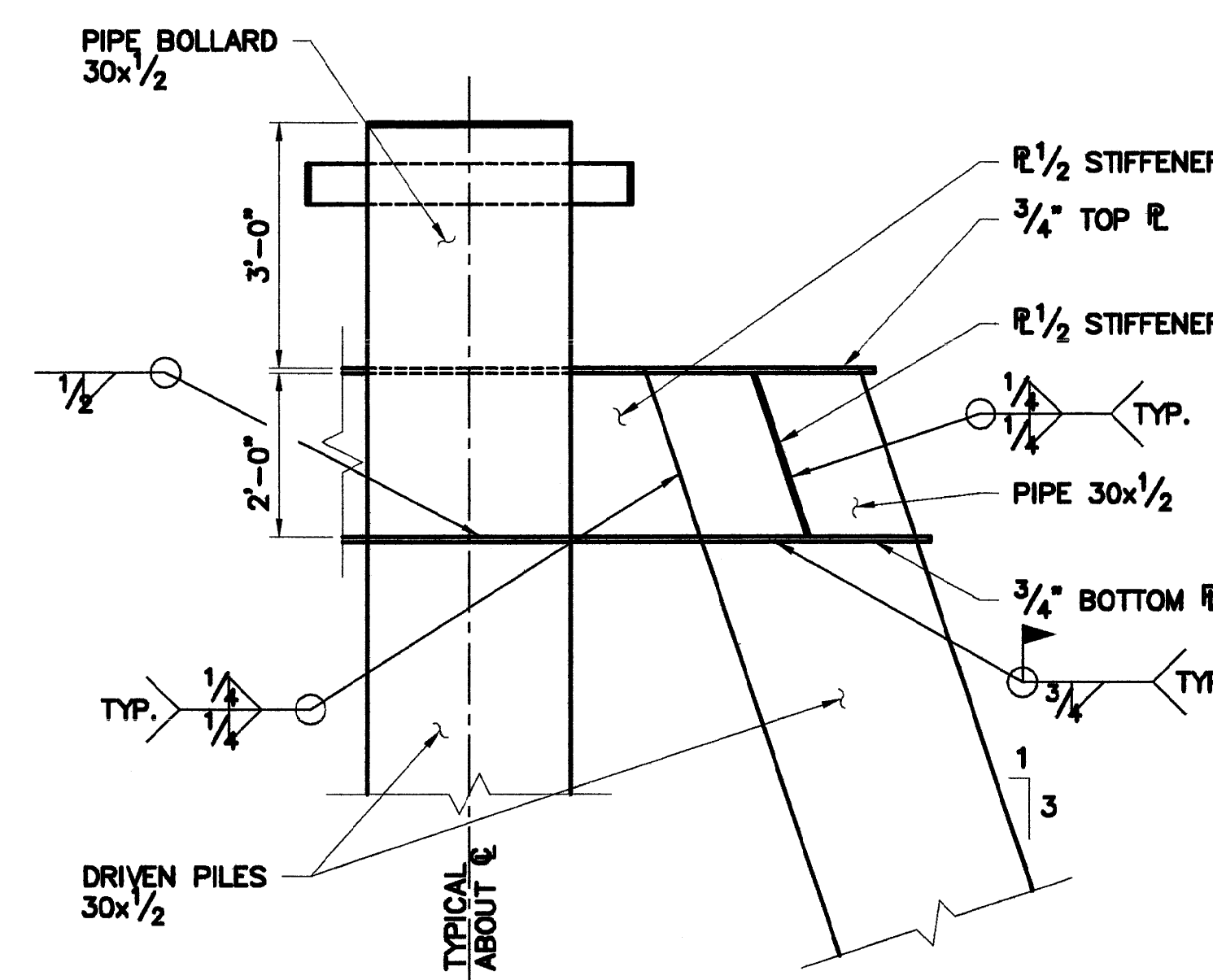
A DOLPHIN - TYP. SECTION  
SCALE: 1/2" = 1'-0"



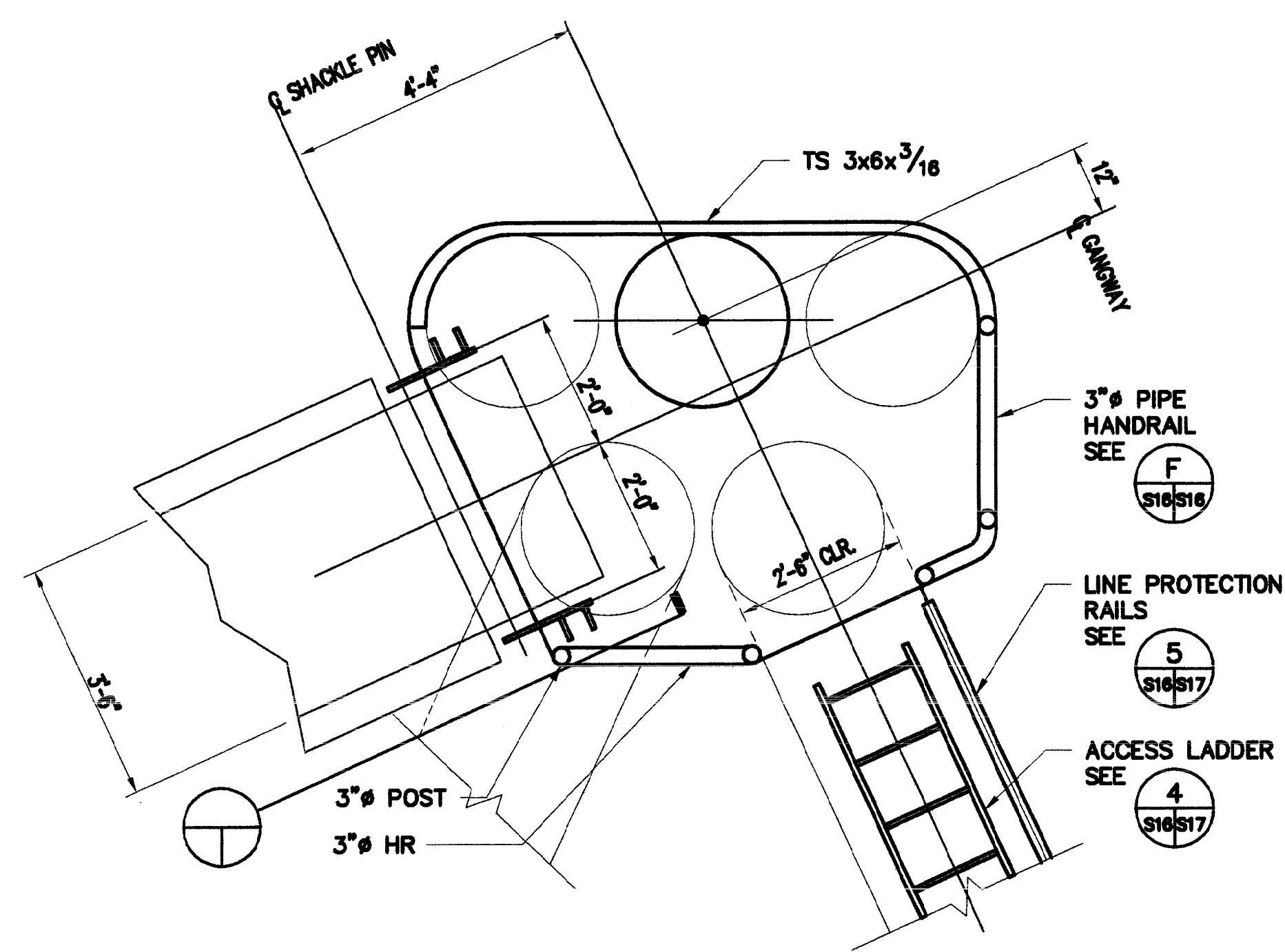
B DOLPHIN - SECTION  
SCALE: 1/2" = 1'-0"



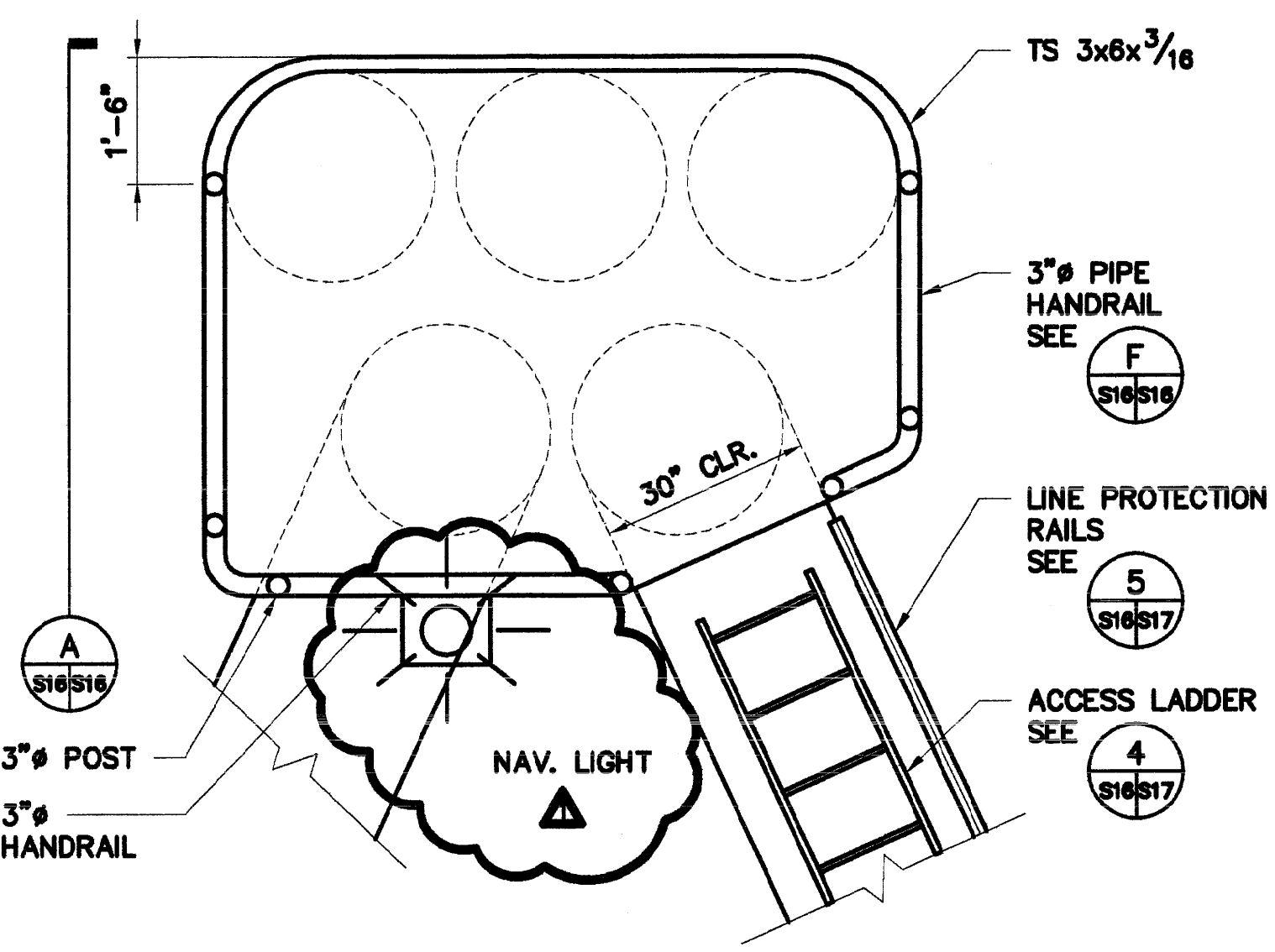
C DOLPHIN - TYP. SECTION  
SCALE: 1/2" = 1'-0"



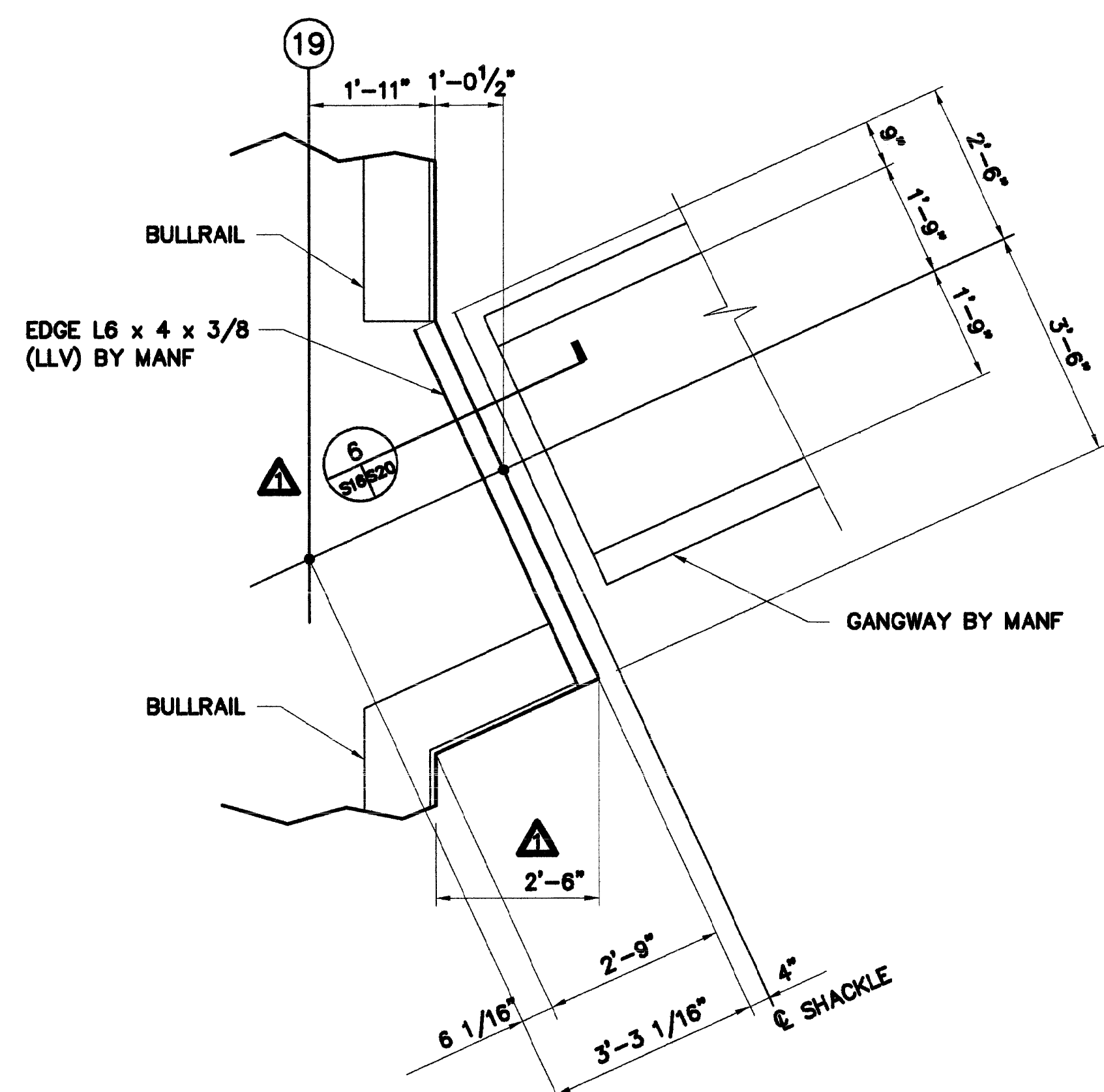
D DOLPHIN - SECTION  
SCALE: 1/2" = 1'-0"



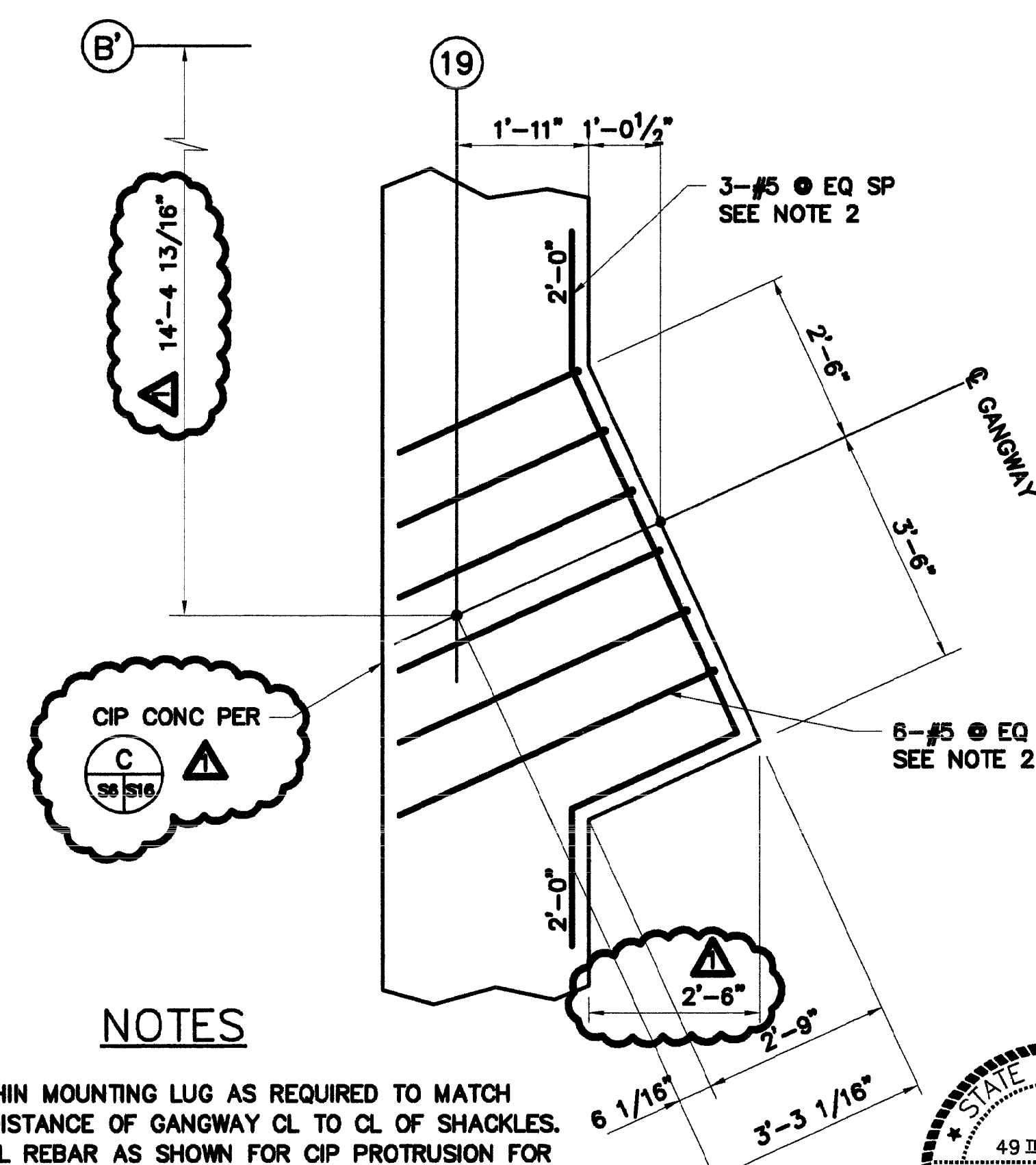
DOLPHIN 1 HANDRAIL PLAN  
SCALE: 1/2" = 1'-0"



DOLPHIN 2 HANDRAIL PLAN  
SCALE: 1/2" = 1'-0"

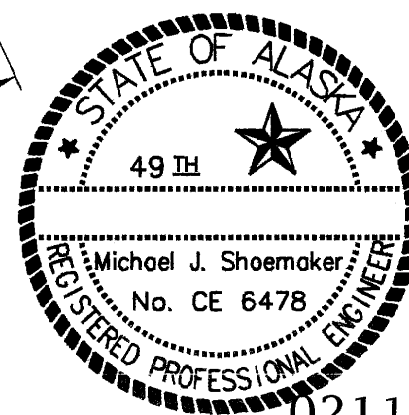


3 DOCK EXTENSION / GANGWAY PLAN  
SCALE: 1/2" = 1'-0"

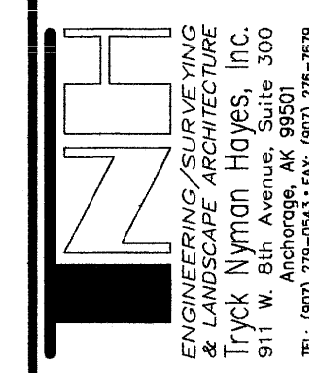


4 DETAIL  
SCALE: 1/2" = 1'-0"

- NOTES
1. ADJUST DOLPHIN MOUNTING LUG AS REQUIRED TO MATCH HORIZONTAL DISTANCE OF GANGWAY CL. TO CL. OF SHACKLES.
  2. FIT ADDITIONAL REBAR AS SHOWN FOR CIP PROTRUSION FOR GANGWAY. SEE SECTION C ON DRAWING S6.



REVISION	DATE	BY	SCALE	APP. NO.
1	02/03	MEH	AS-BUILT	82339.D

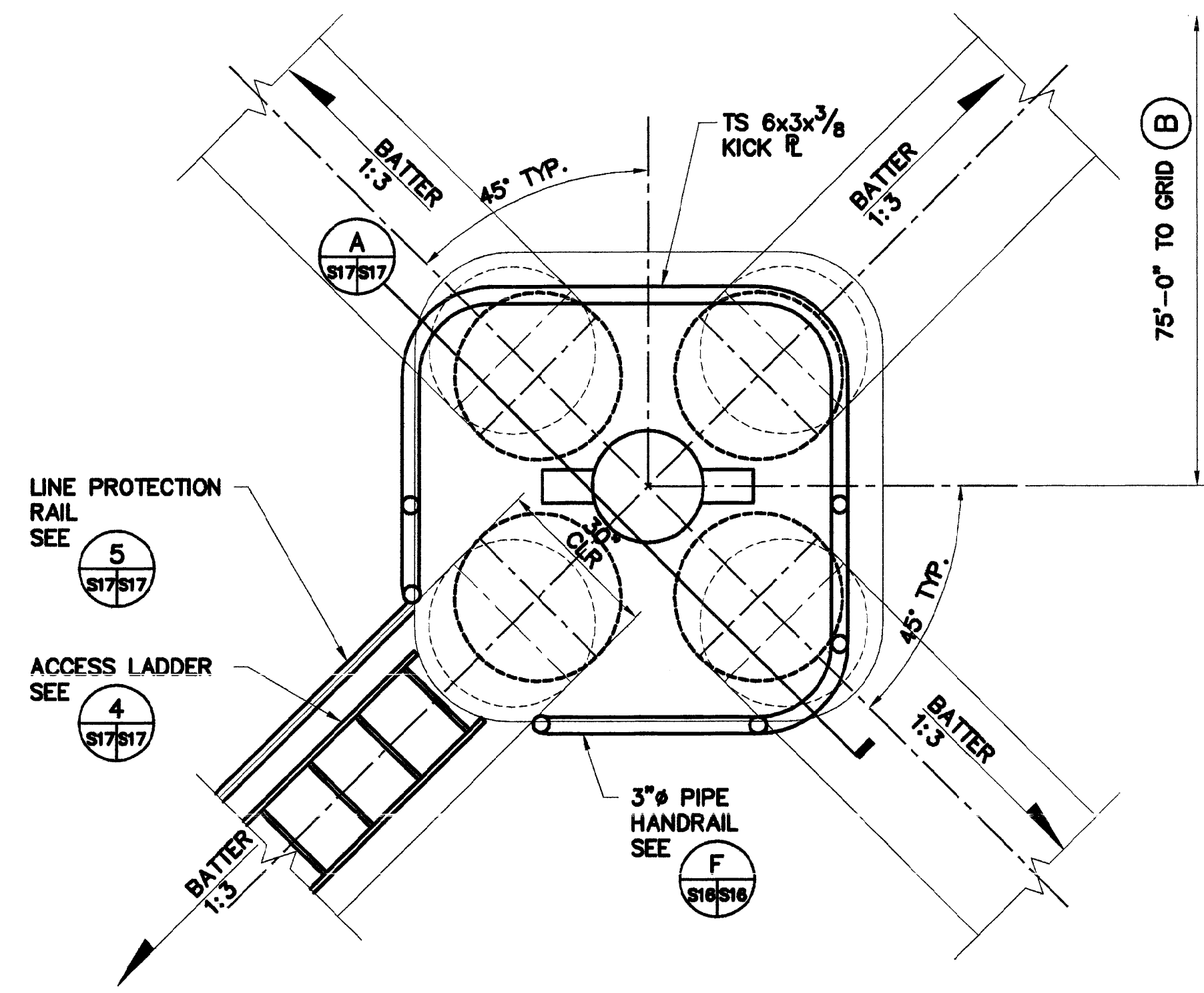


CITY OF HOMER  
DOLPHIN DETAILS

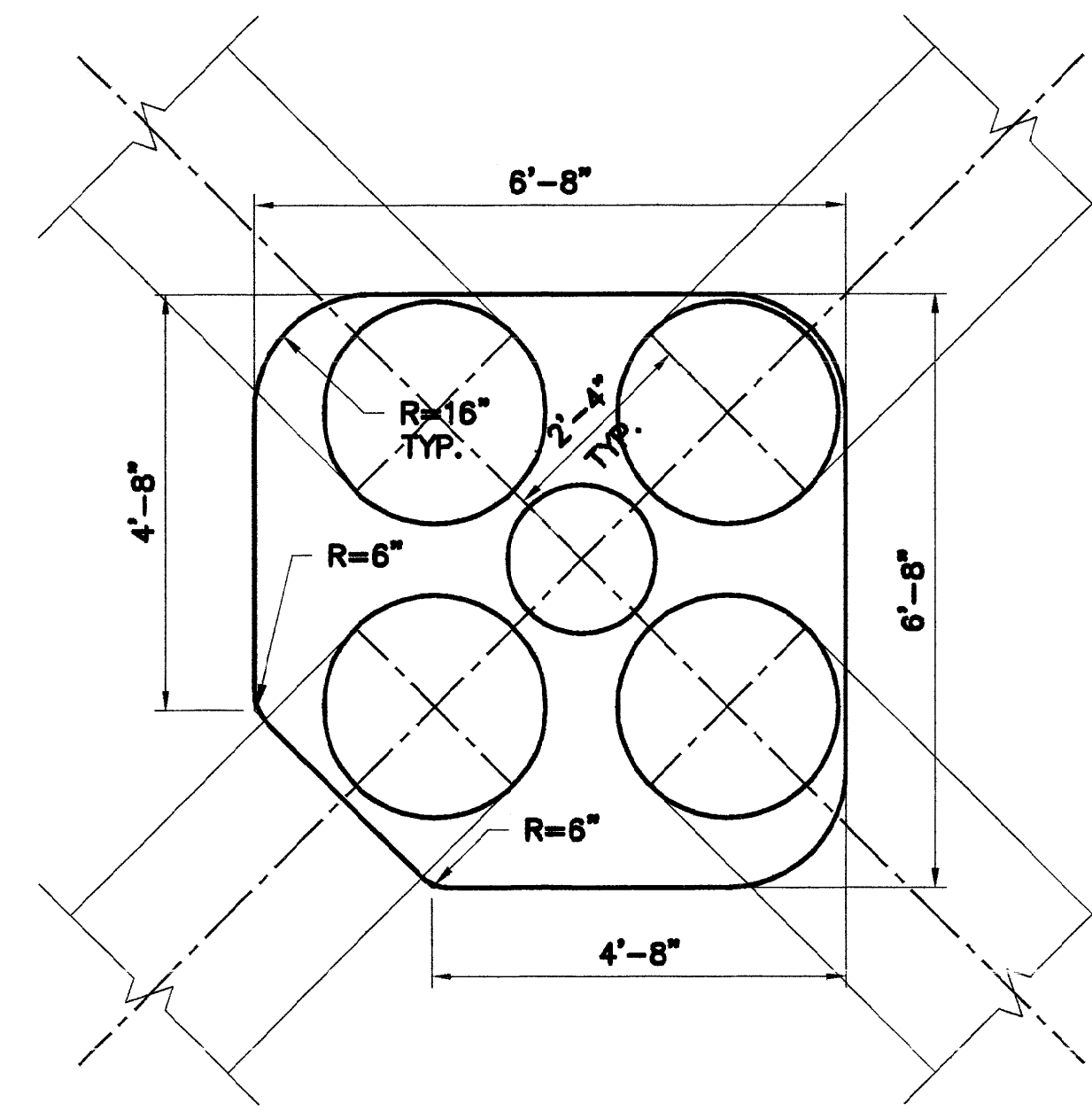
SHEET  
16/47

FILE NO.  
82339\_S16.DWG

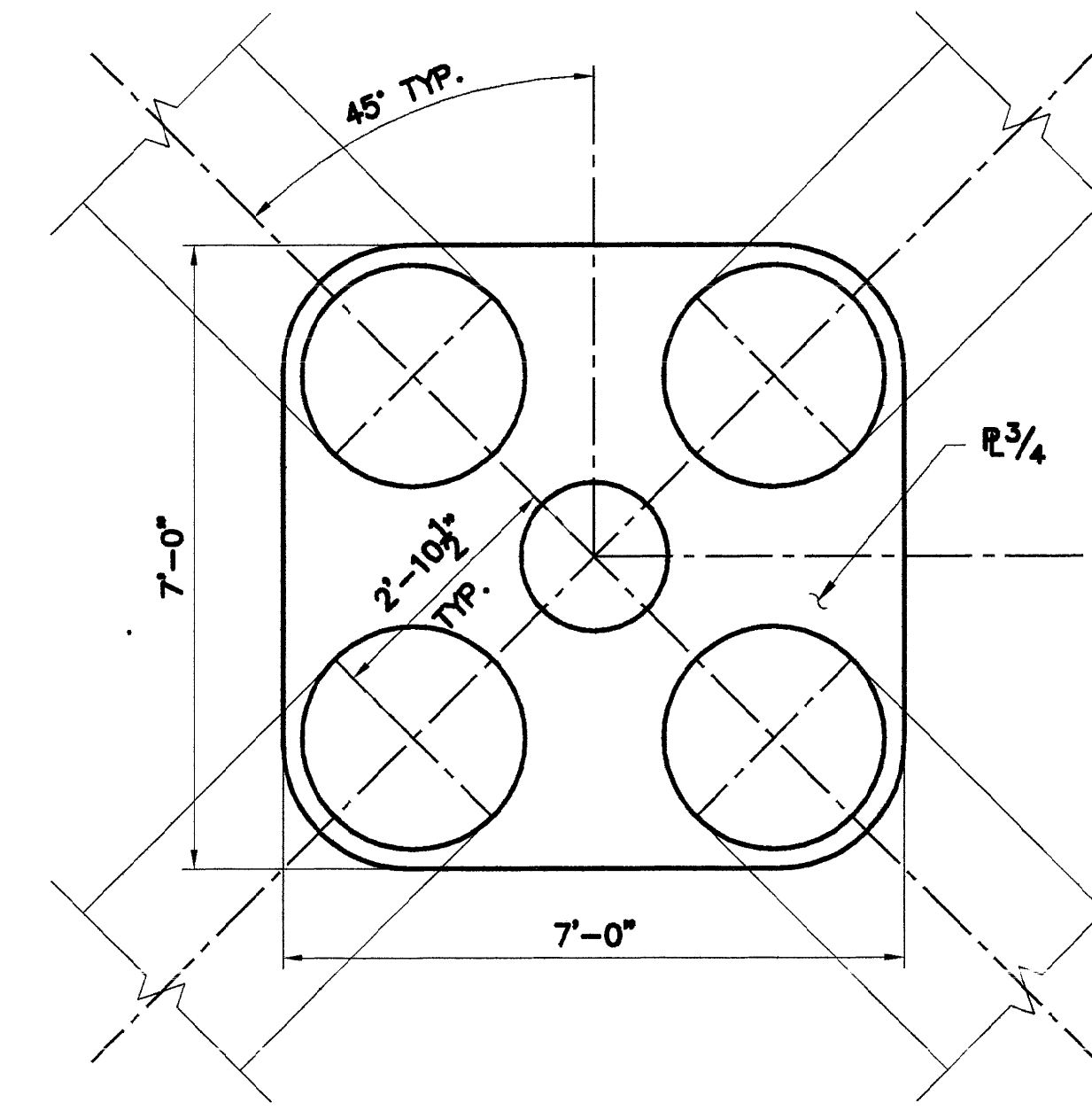




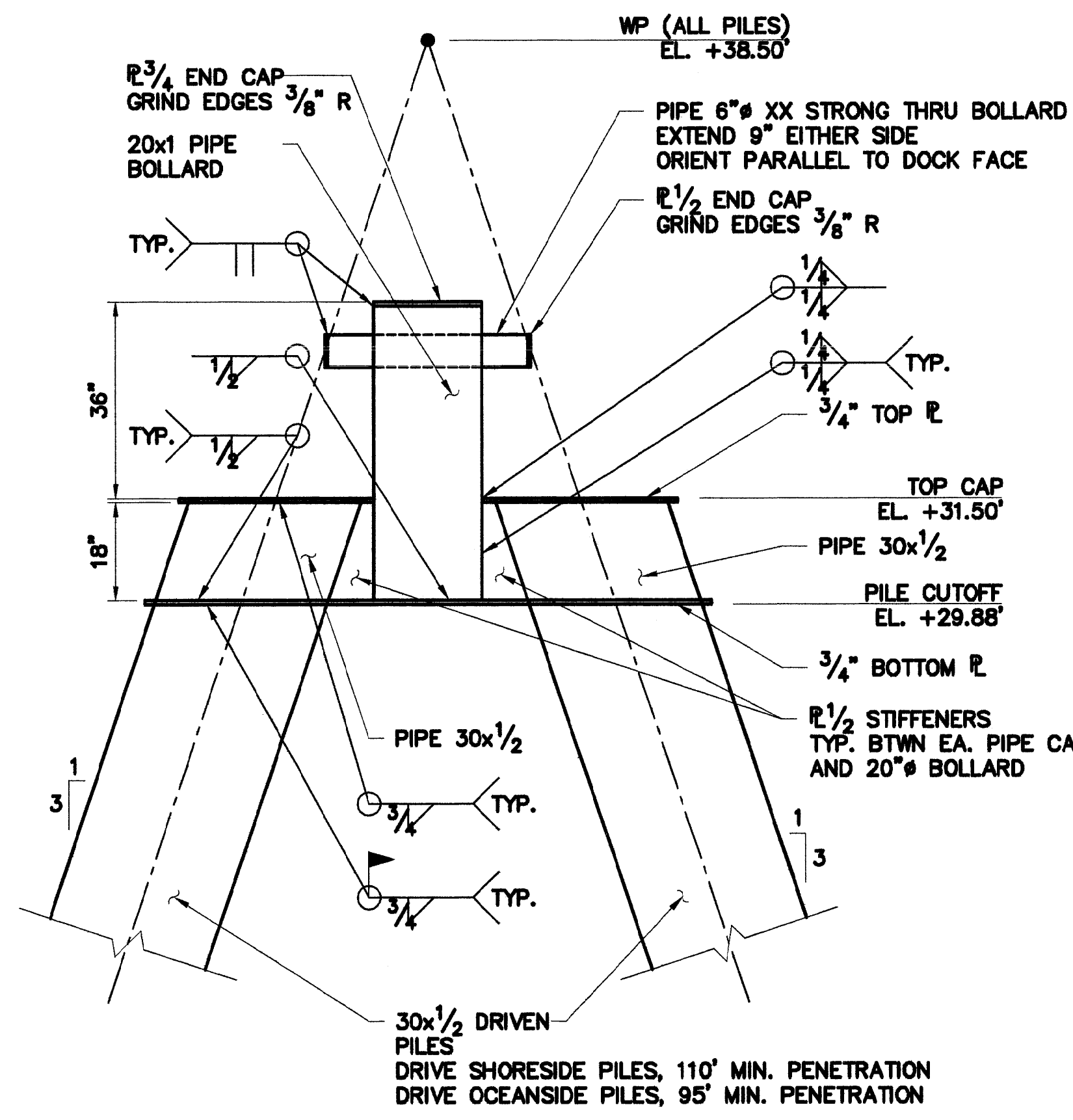
1 MOORING DOLPHIN PLAN  
S17/S17 SCALE: 1/2" = 1'-0"



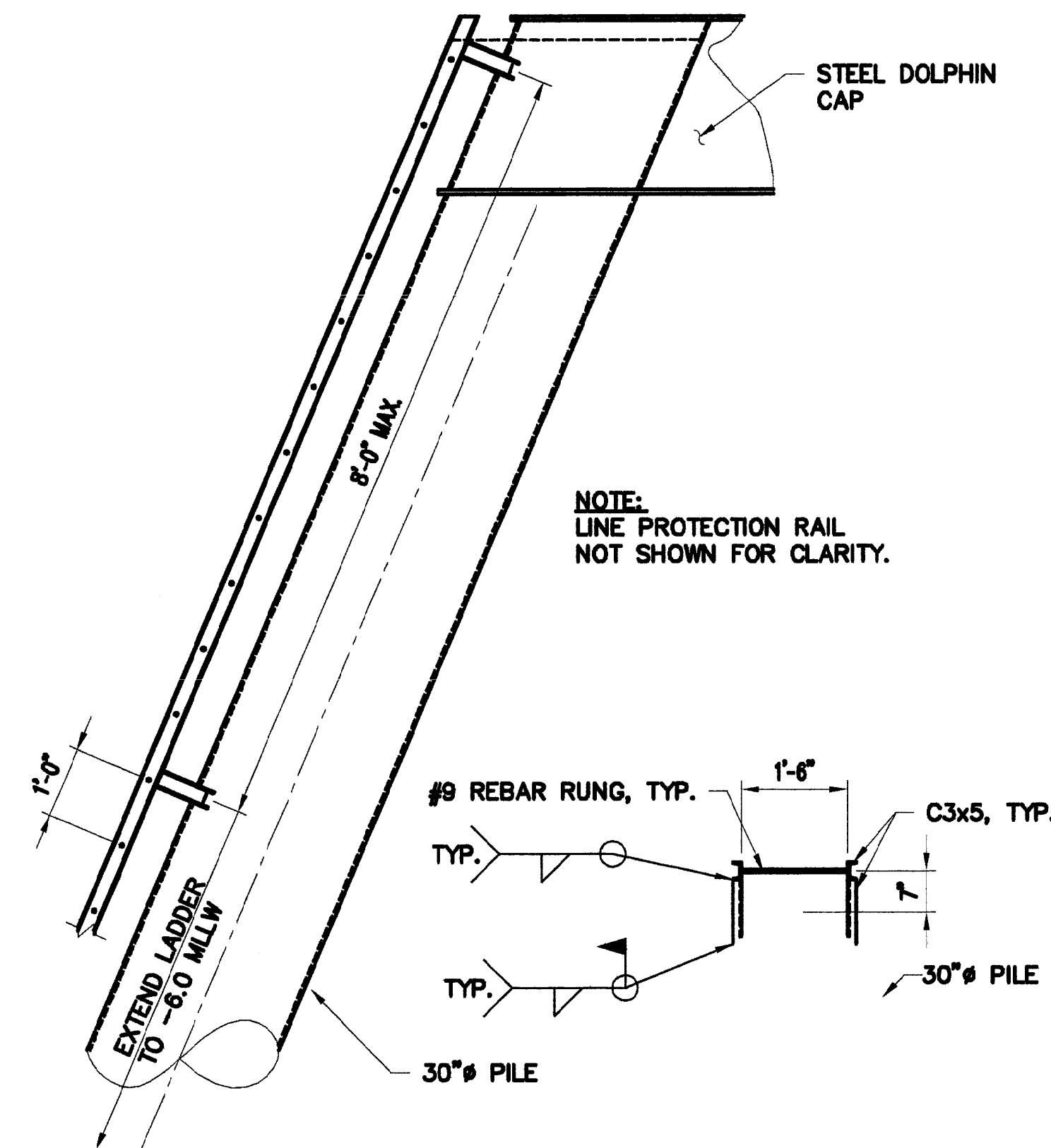
2 MOORING DOLPHIN - TOP PLATE  
S17/S17 SCALE: 1/2" = 1'-0"



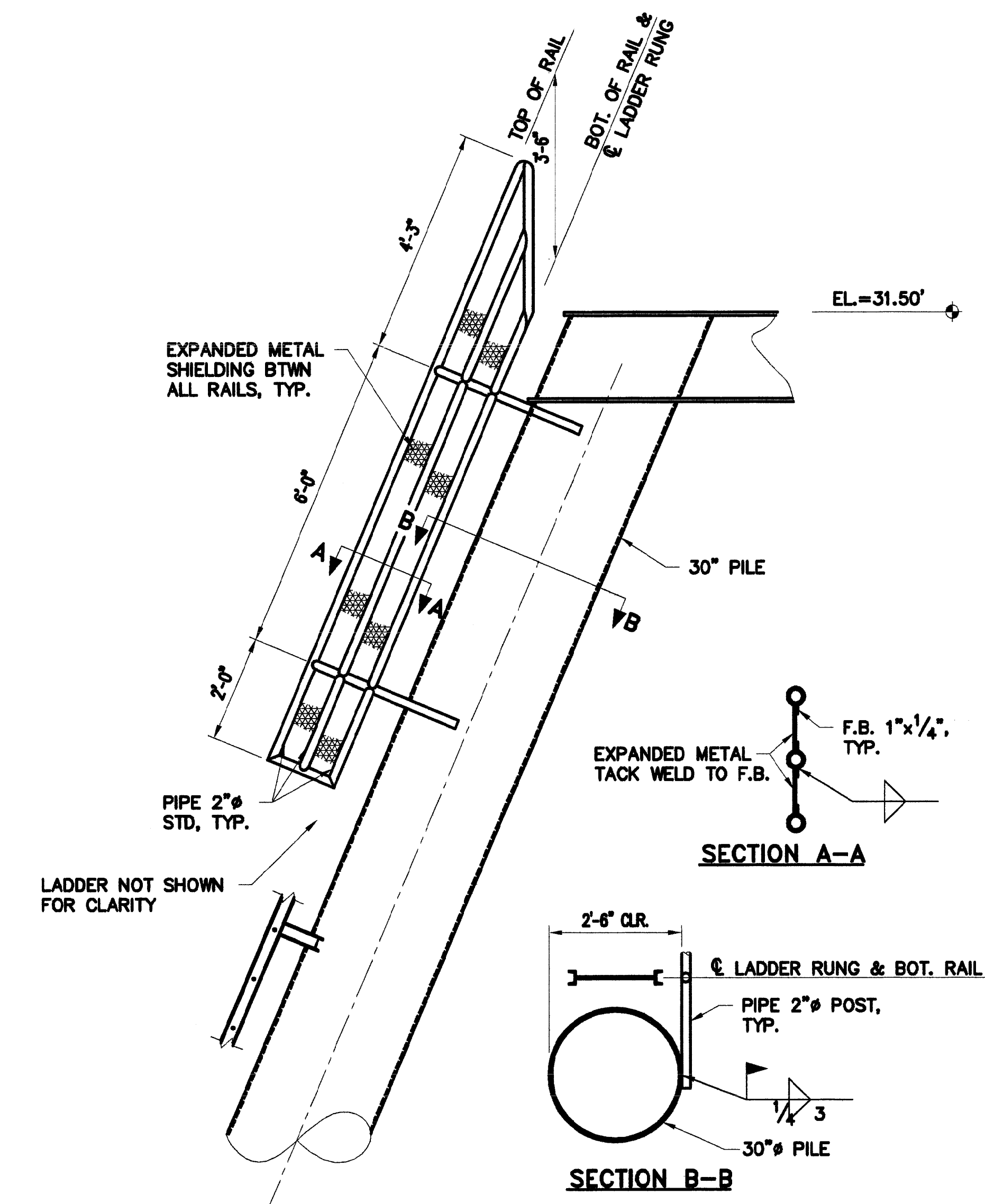
3 MOORING DOLPHIN - BOTTOM PLATE  
S17/S17 SCALE: 1/2" = 1'-0"



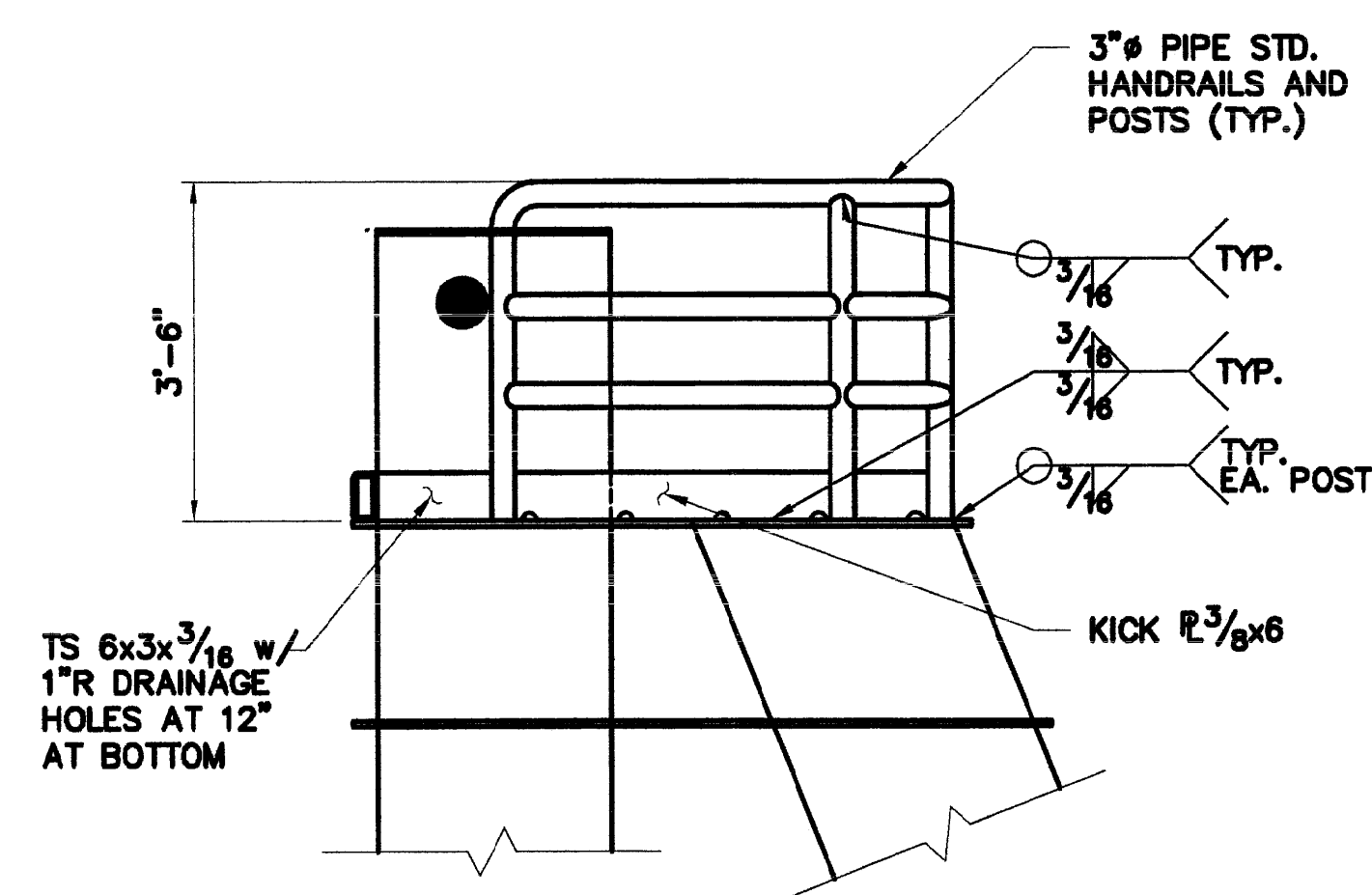
4 MOORING DOLPHIN CAP - TYP. SECTION  
S17/S17 SCALE: 1/2" = 1'-0"



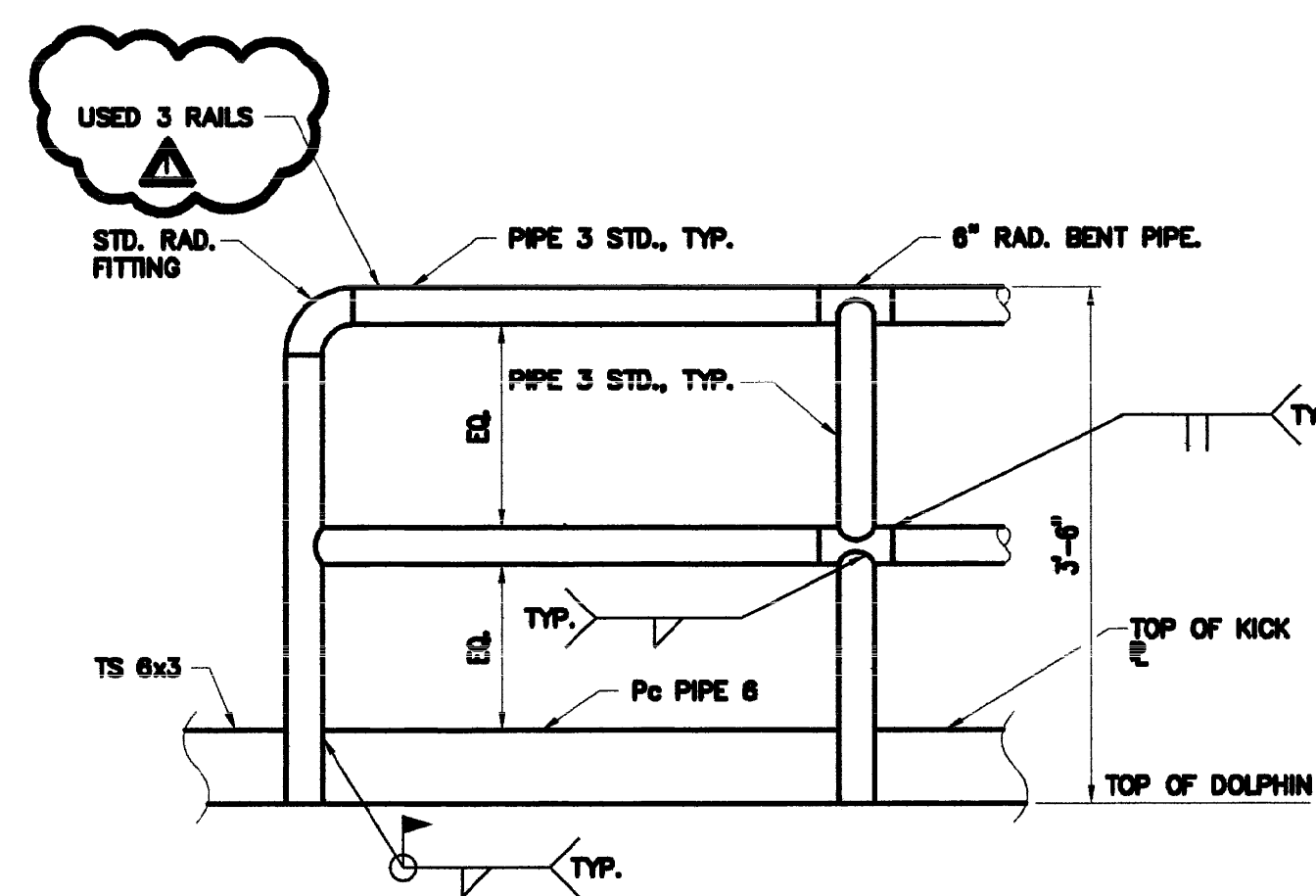
5 LADDER DETAIL  
S17/S17 SCALE: 1/2" = 1'-0"



6 RAIL PROTECTION DETAIL  
S17/S17 SCALE: 1/2" = 1'-0"

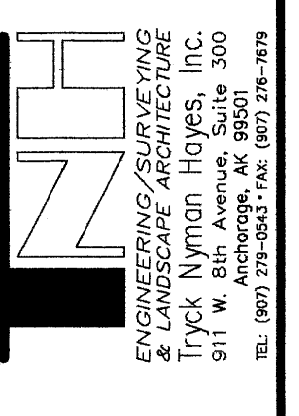


7 DOLPHIN HANDRAIL - TYP. SECTION  
S17/S17 SCALE: 1/2" = 1'-0"



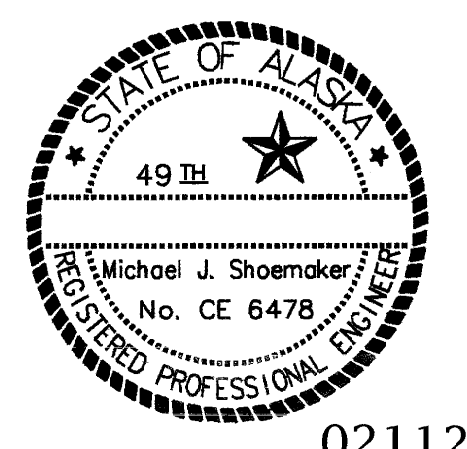
8 HANDRAIL  
S17/S17 SCALE: 3/4" = 1'-0"

REVISION	DATE	BY	SCALE	APP. NO.	REV. NO.
1	02/03/03	WEH	AS-BUILT	REVISION	



CITY OF HOMER  
DOLPHIN DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
S17 of 47

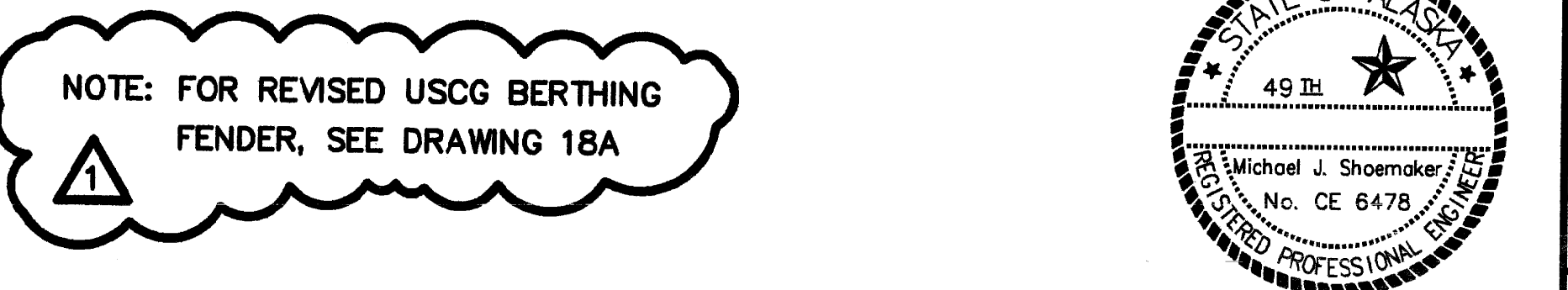
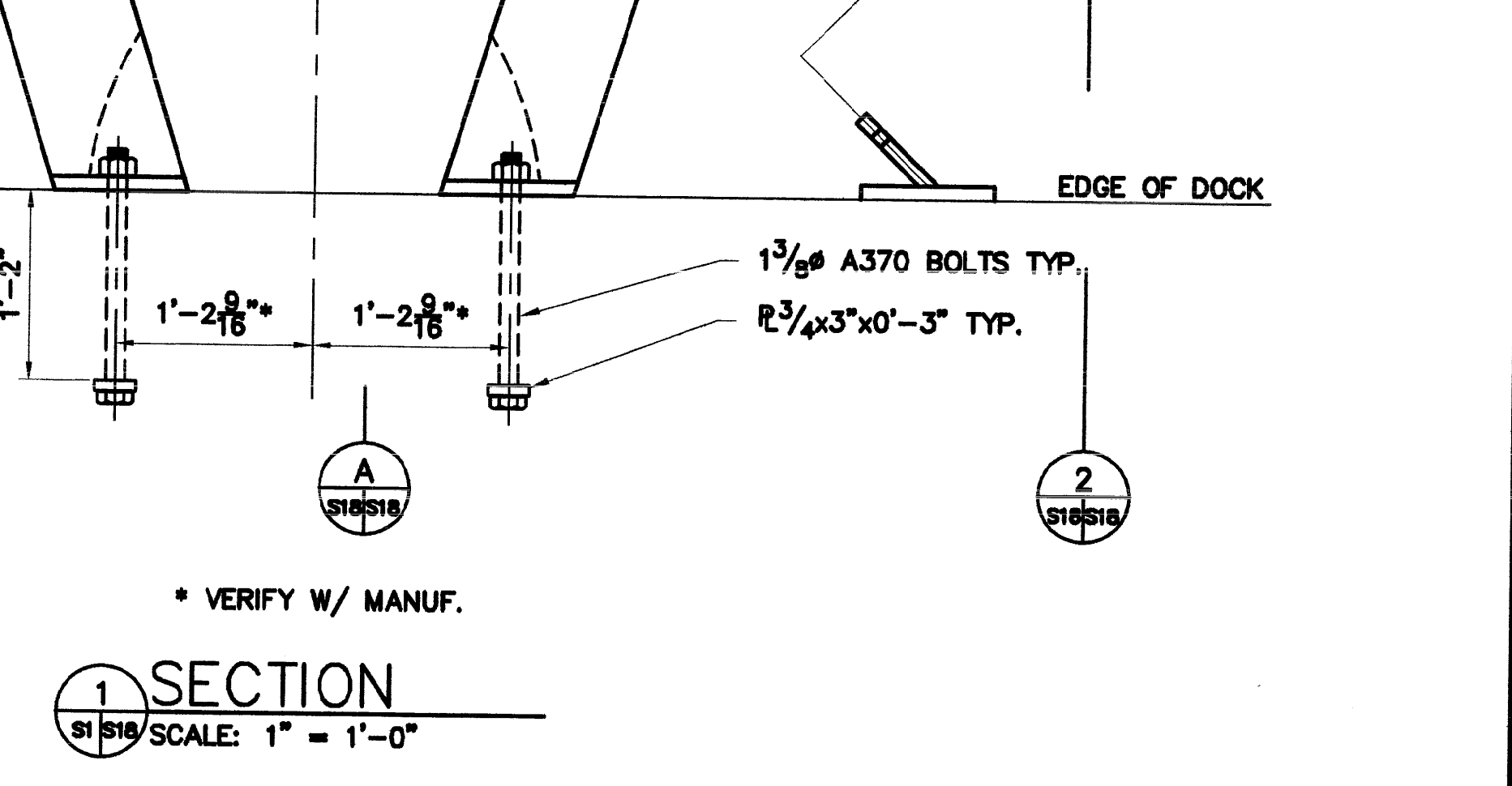
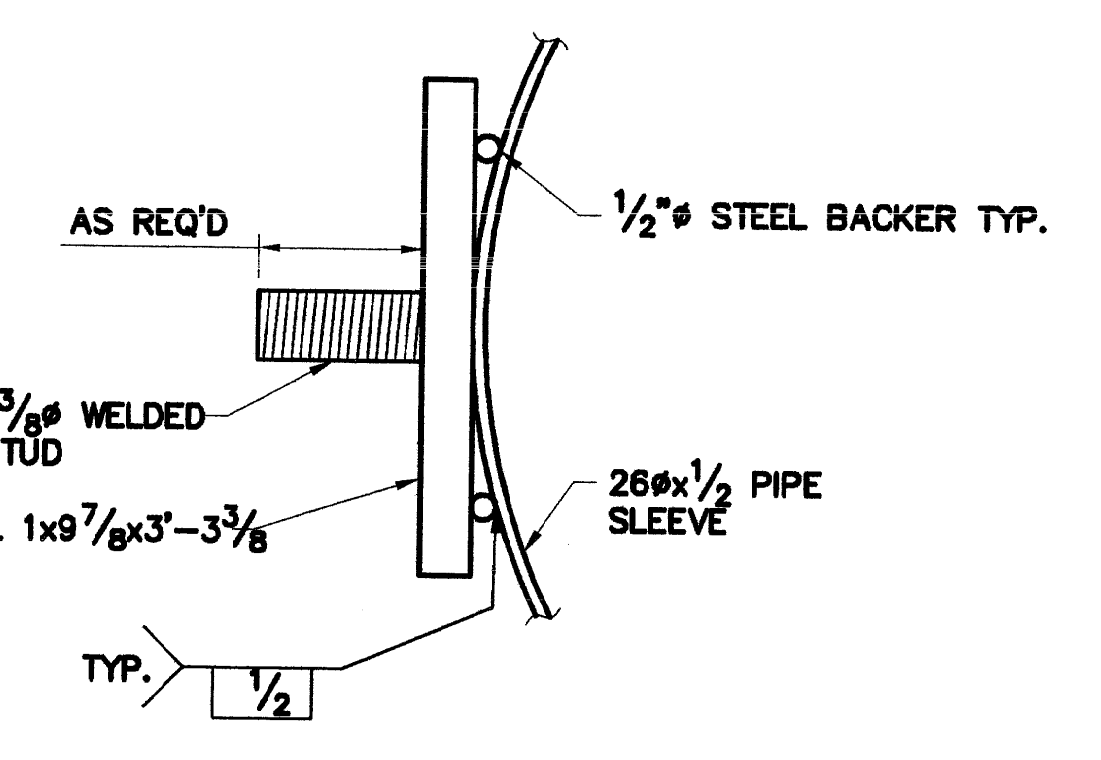
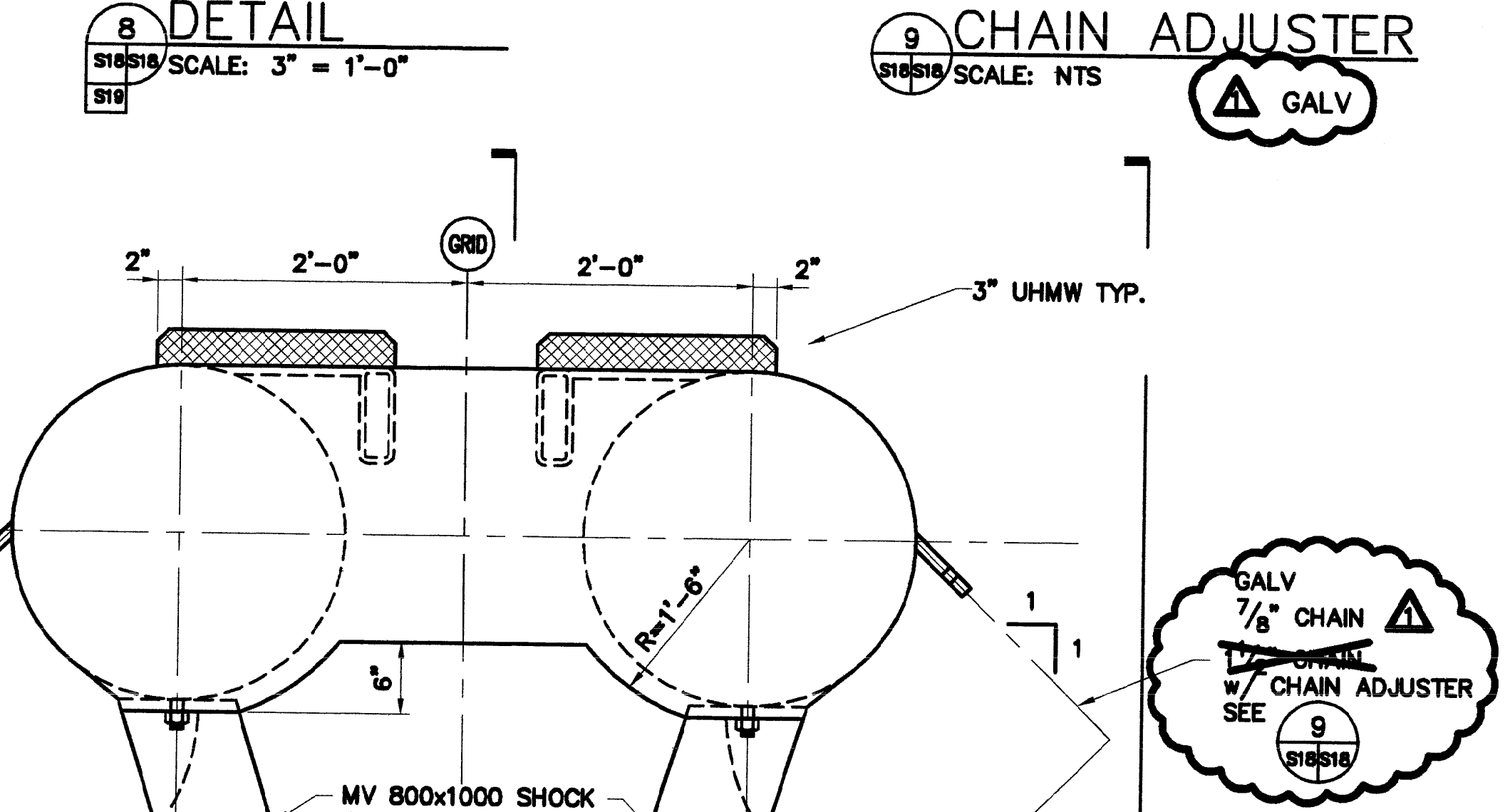
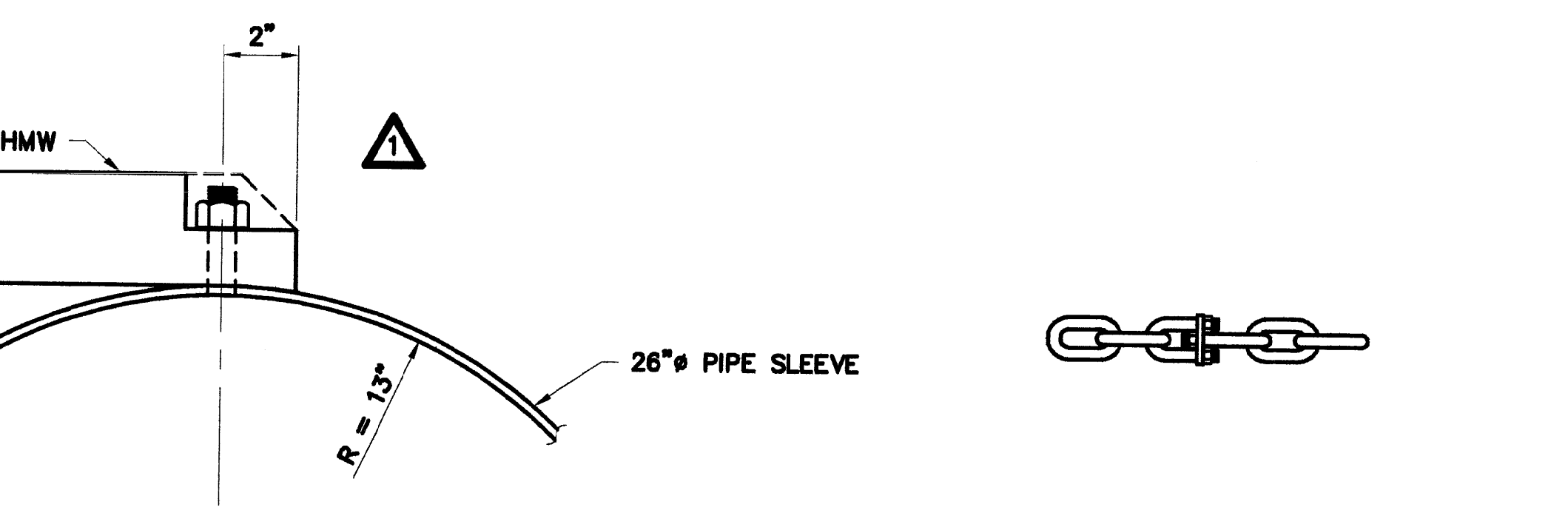
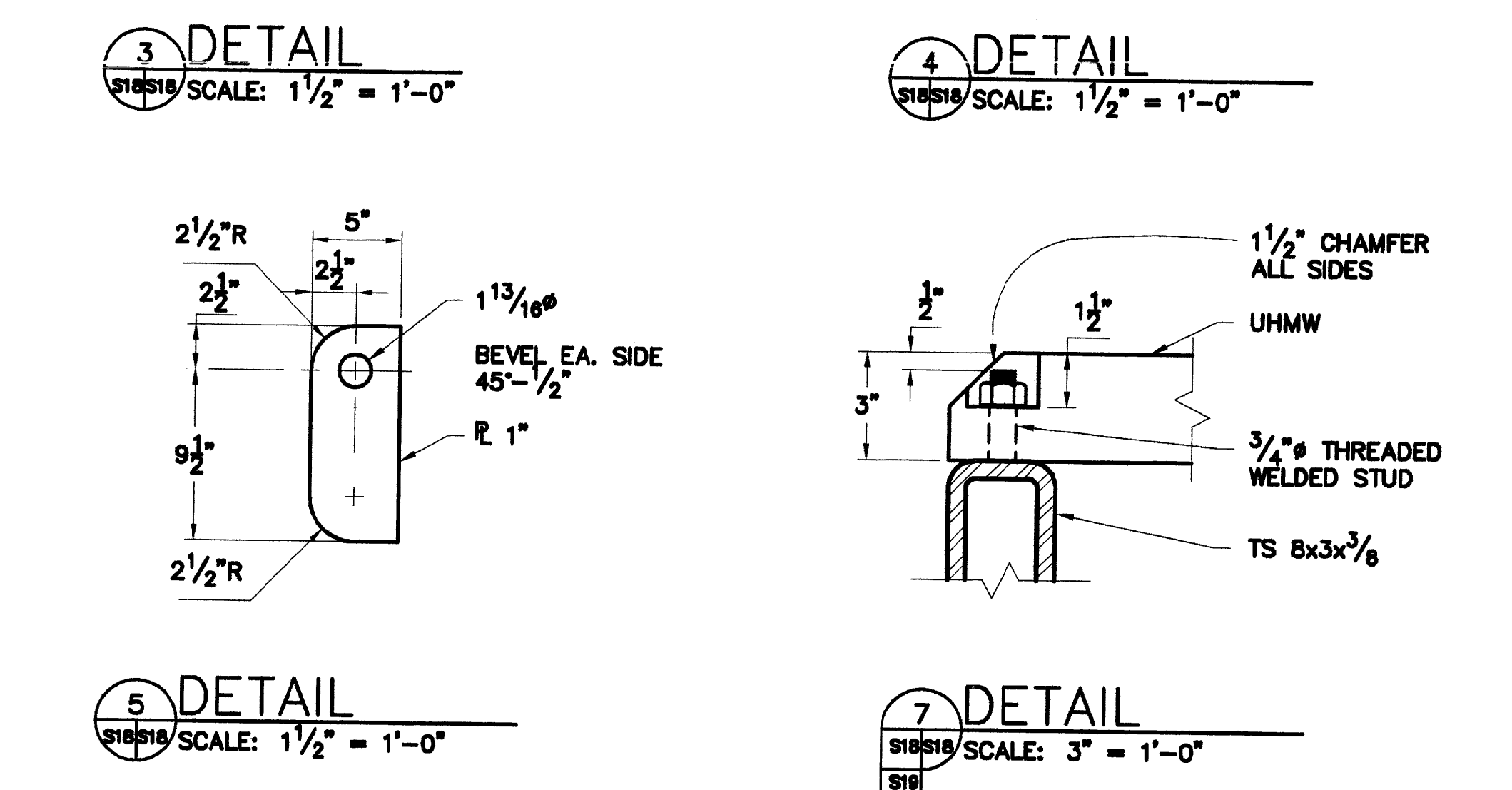
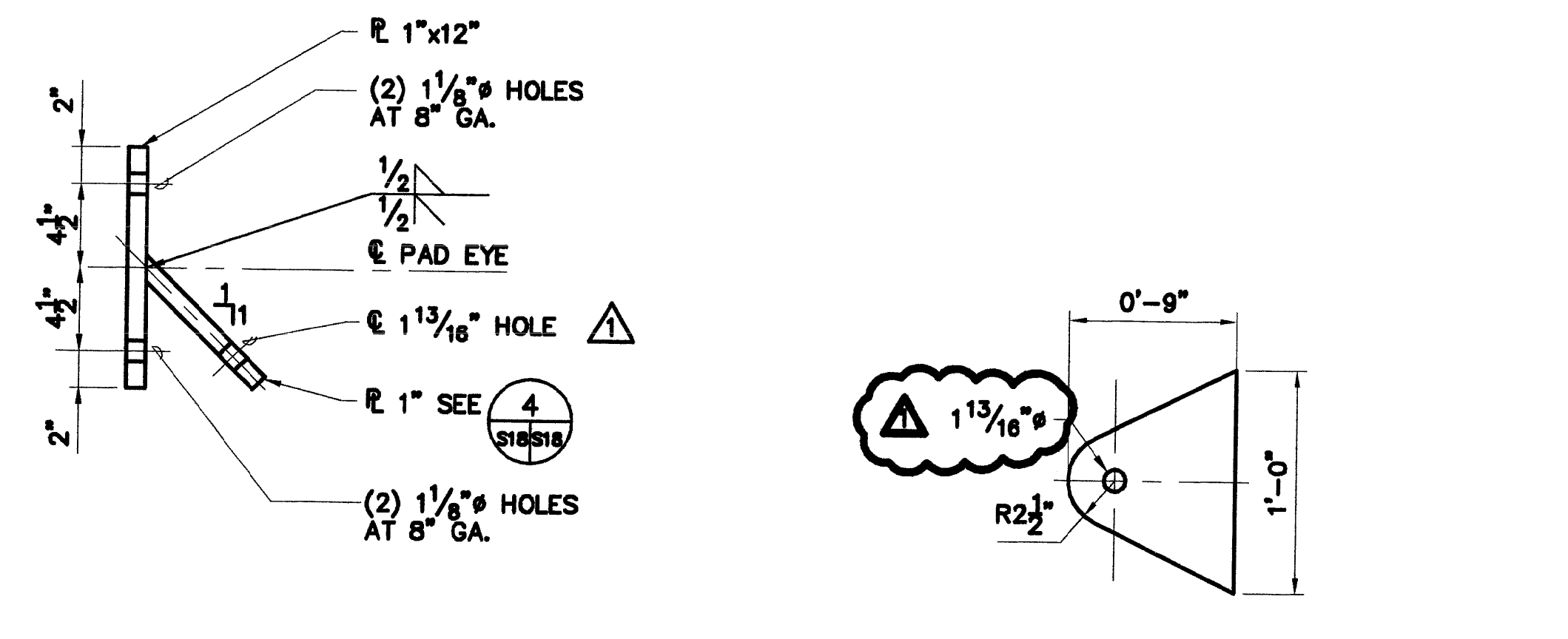
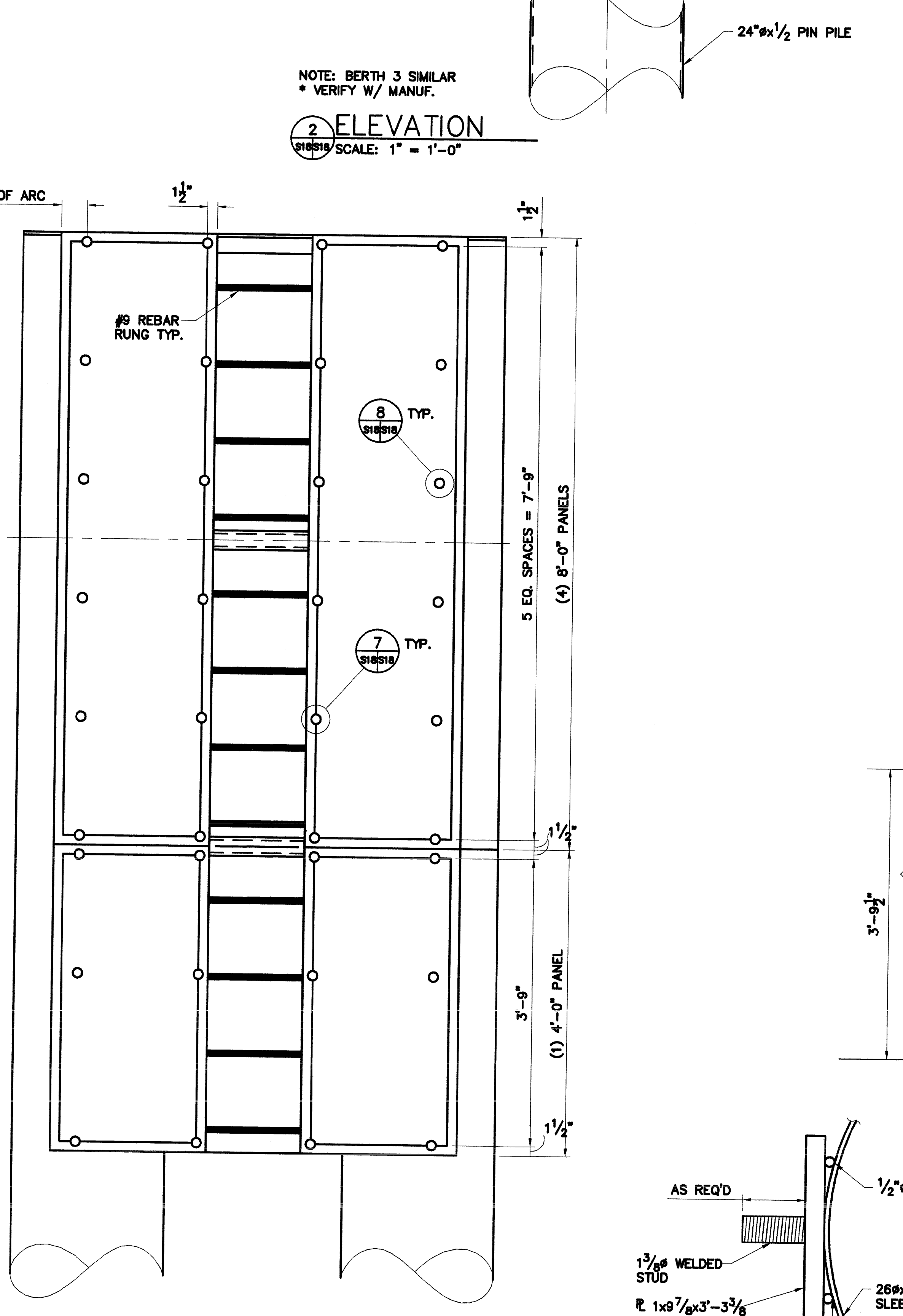
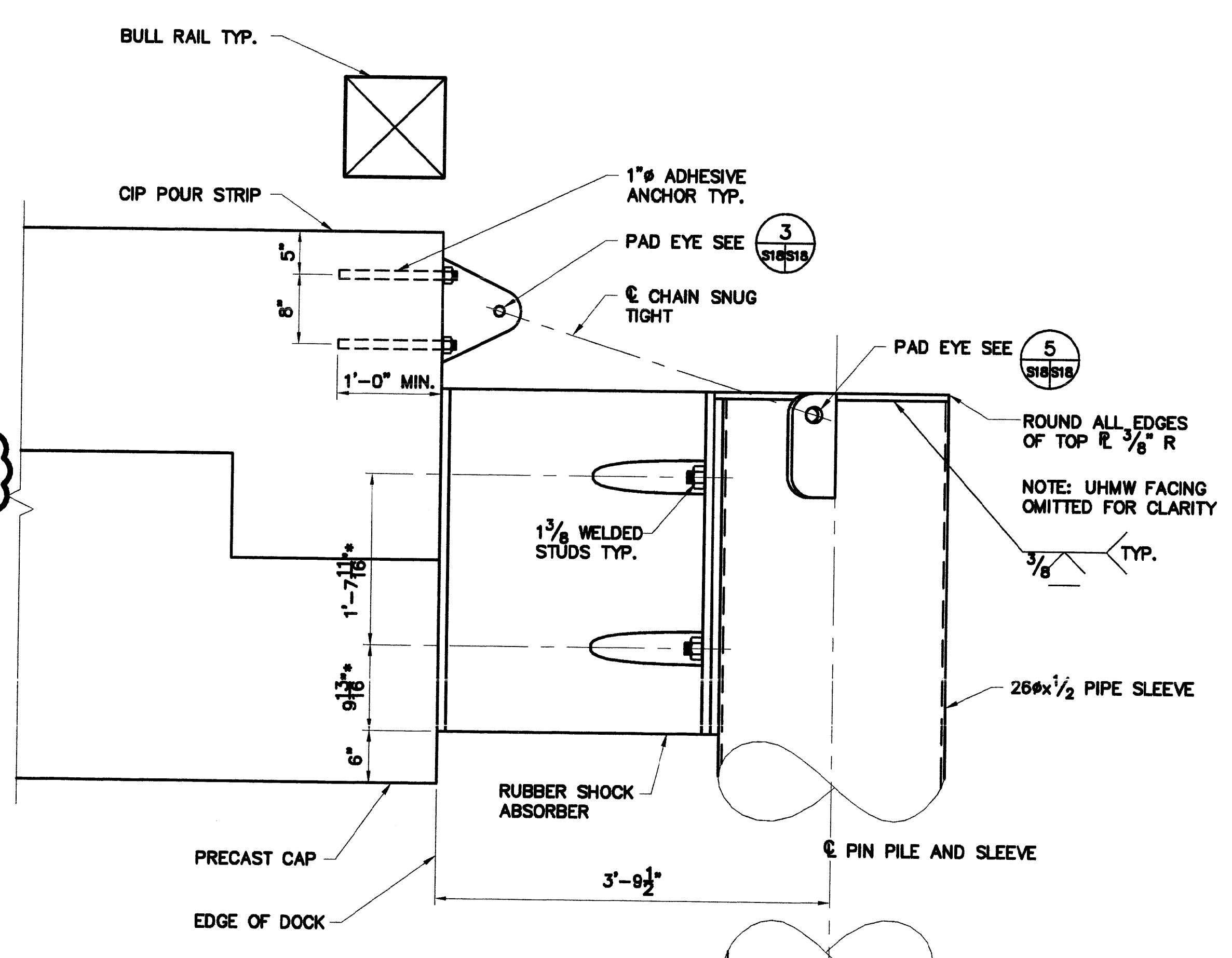
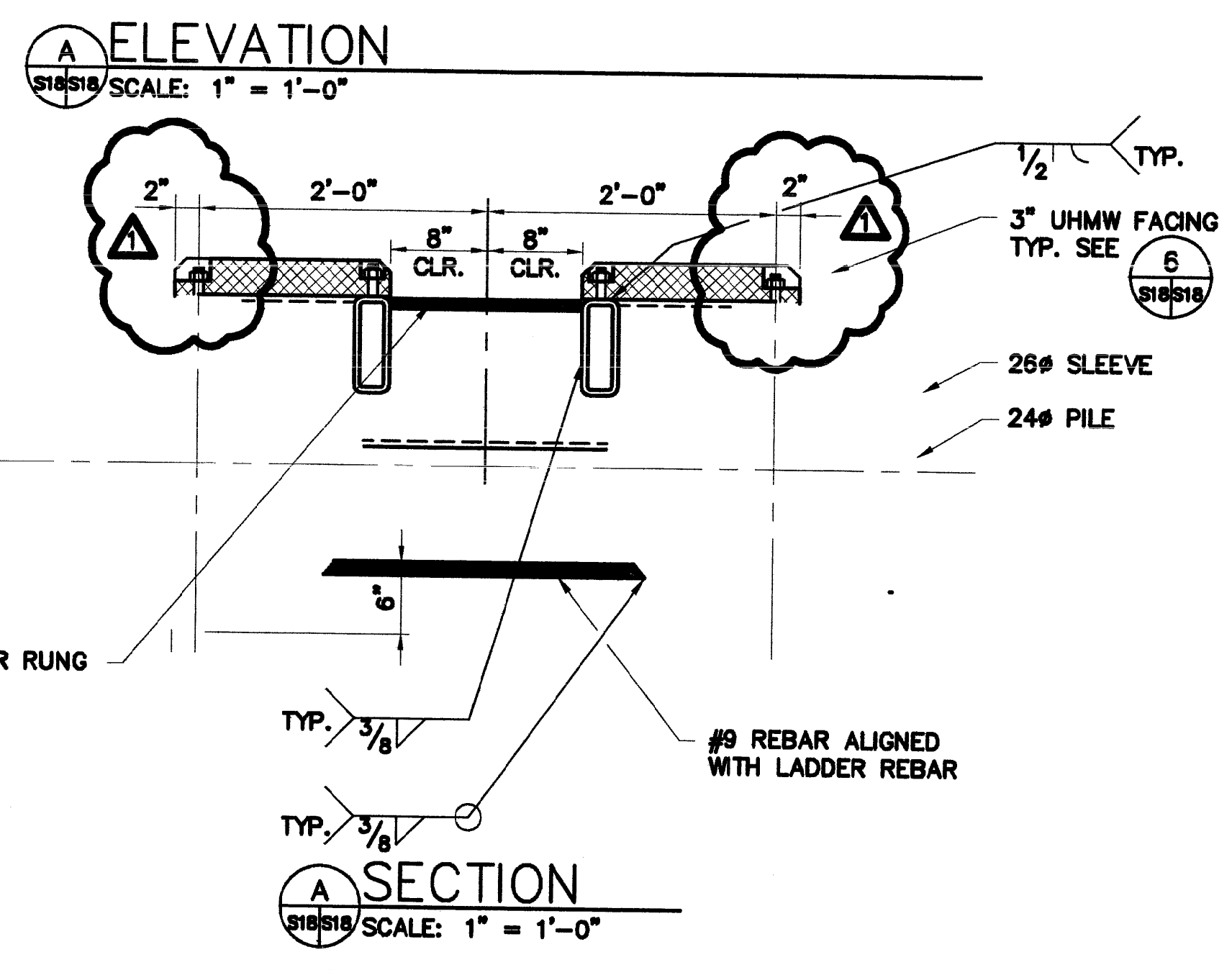
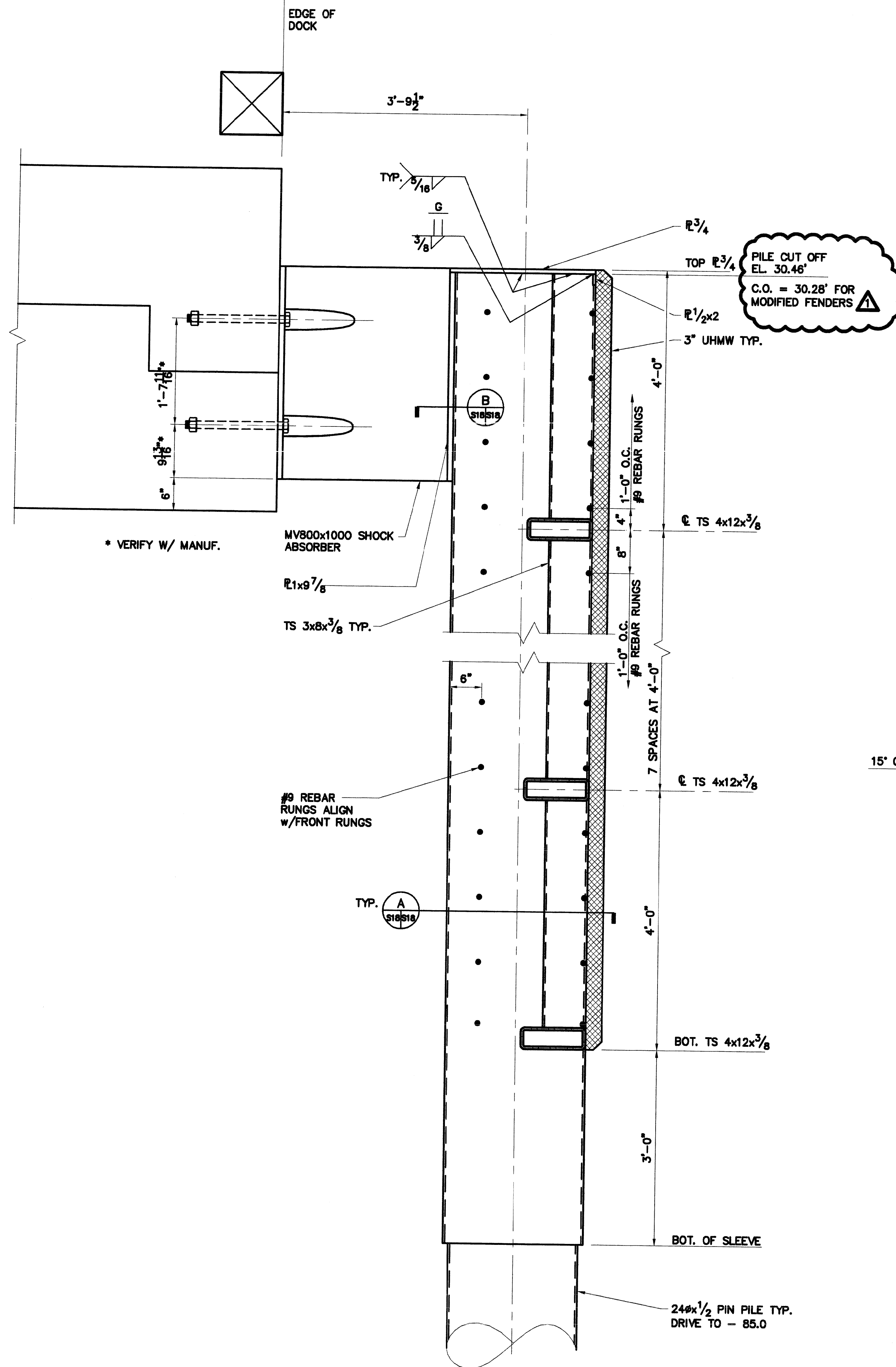


02112

PLOT SCALE: 1:1 PLOT DATE: 05/22/03 PLOT VIEW: P1



POST DATE: 06/12/03 NOT VIEW



NOTE: FOR REVISED USCG BERTHING FENDER, SEE DRAWING 18A

NO.	DATE	BY	REVISION
1	02/03	MEH	AS-BUILT

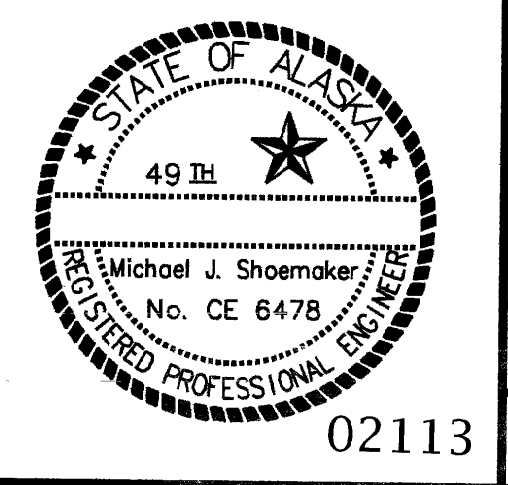
REVISION	DATE	BY	NO.
AS-BUILT	02/03	MEH	1

REVISION	DATE	BY	NO.
AS-BUILT	02/03	MEH	1

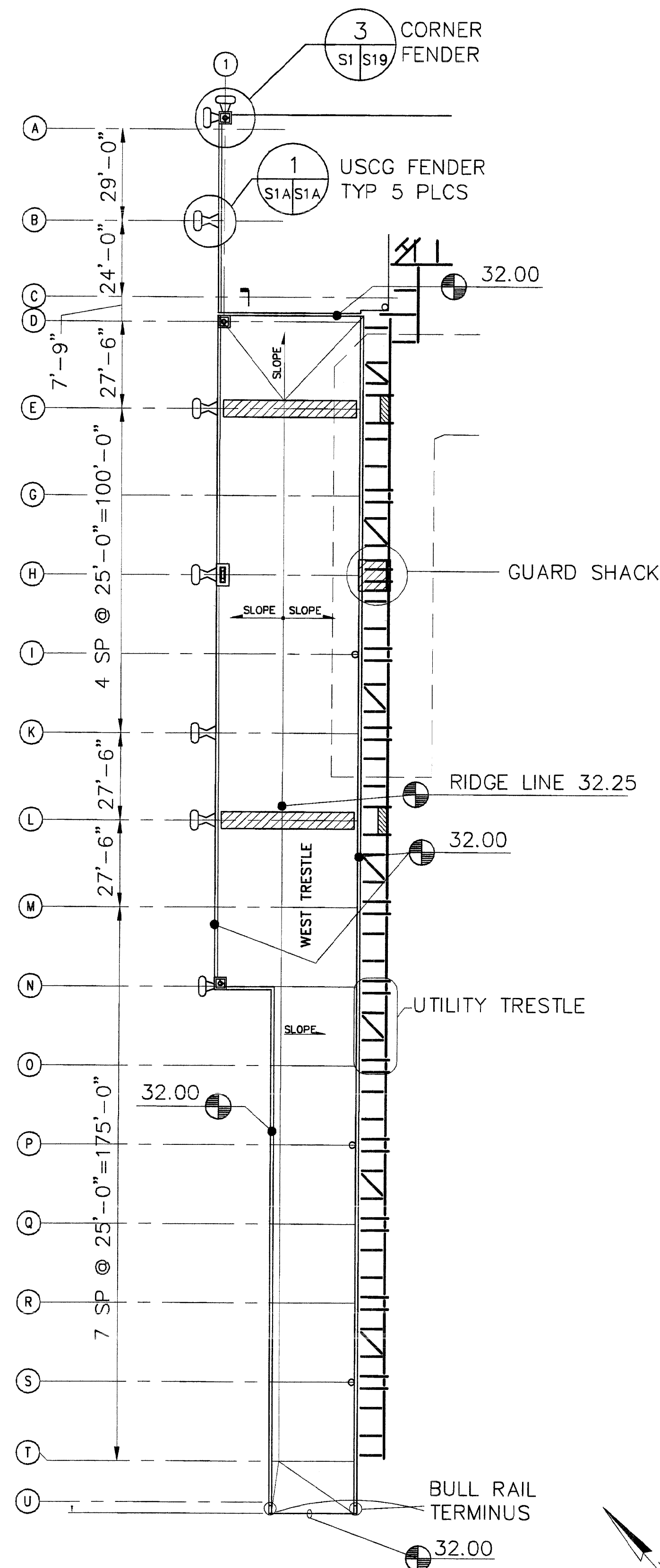
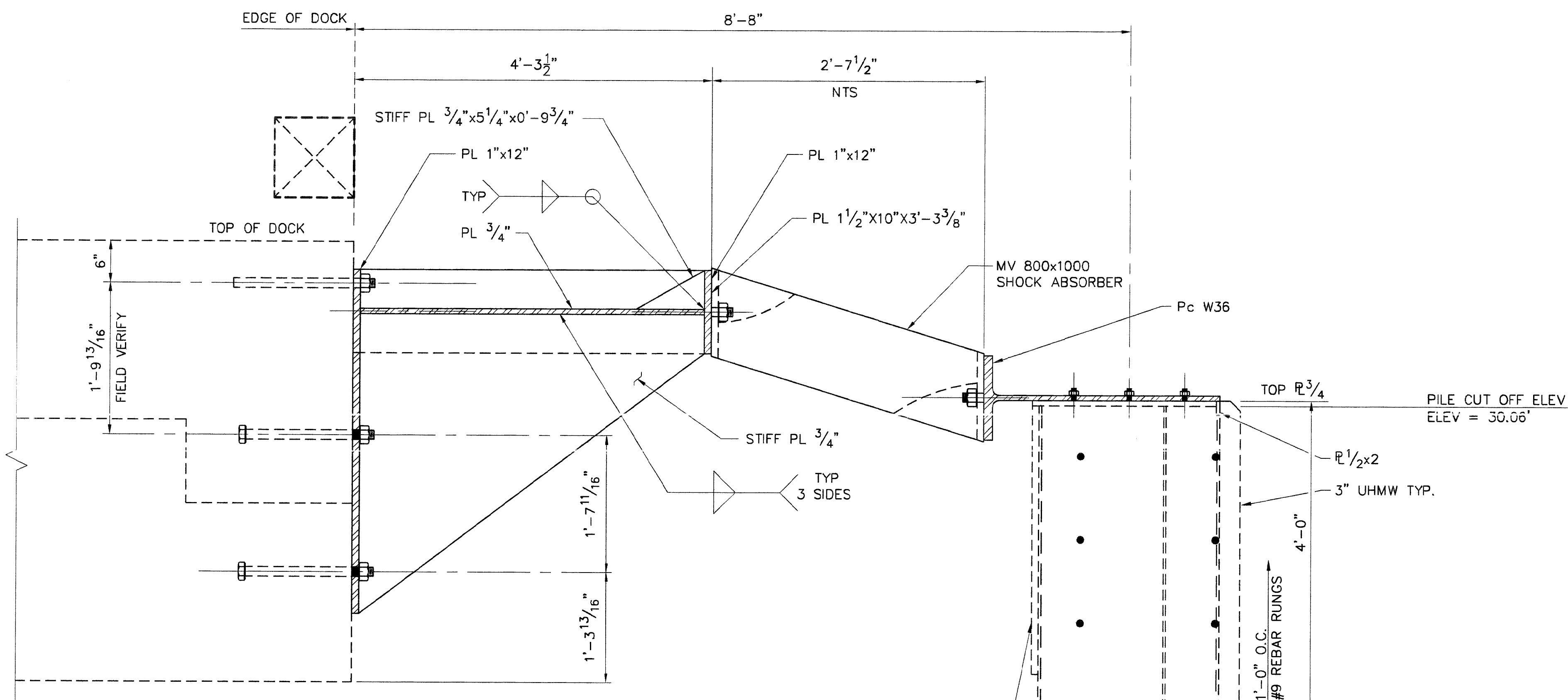
NO.	DATE	BY	REVISION
1	02/03	MEH	AS-BUILT



CITY OF HOMER  
FENDER DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK  
SHEET 18/47  
FILE NO. 8239\_S18.DWG

02113

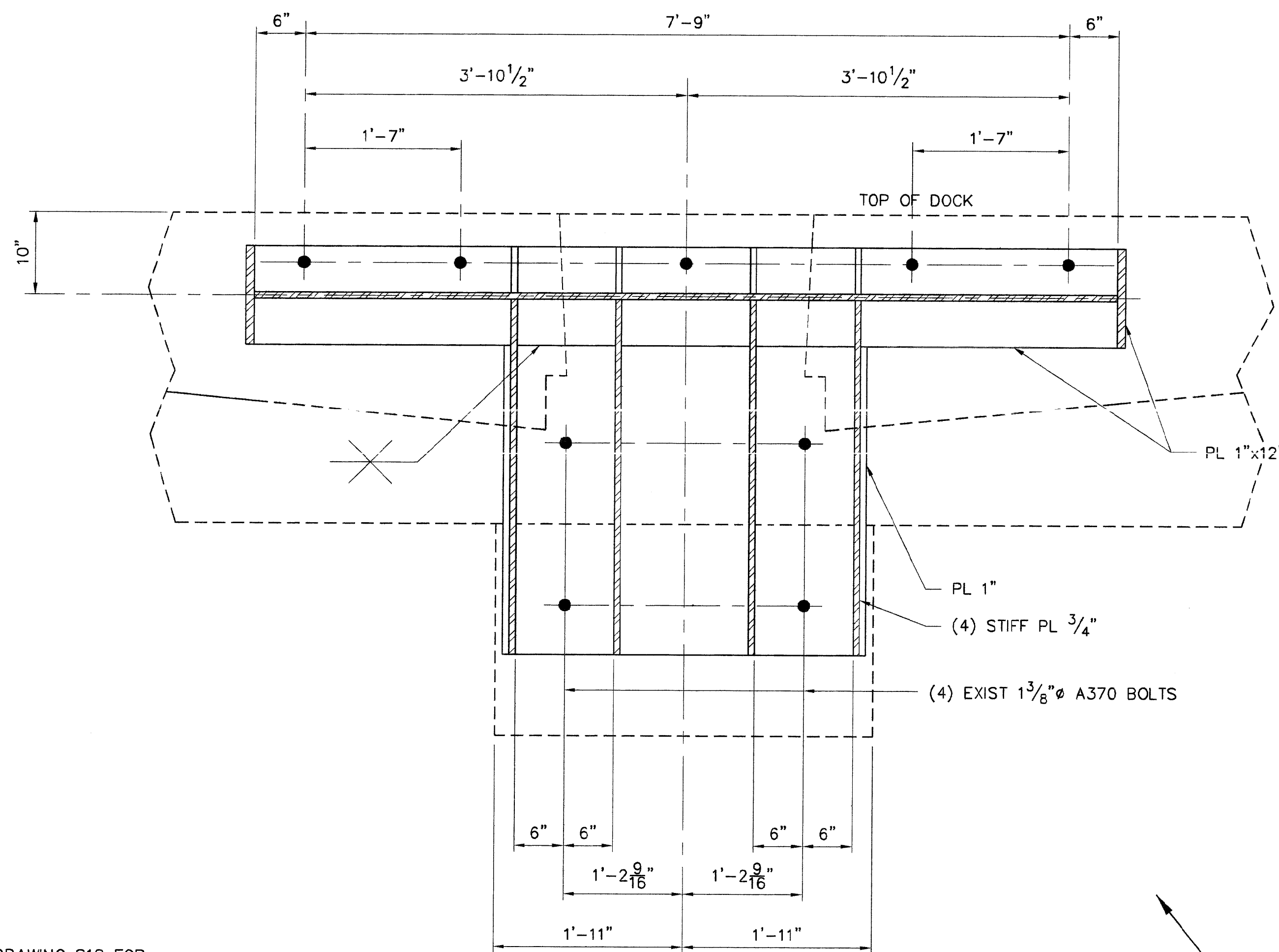




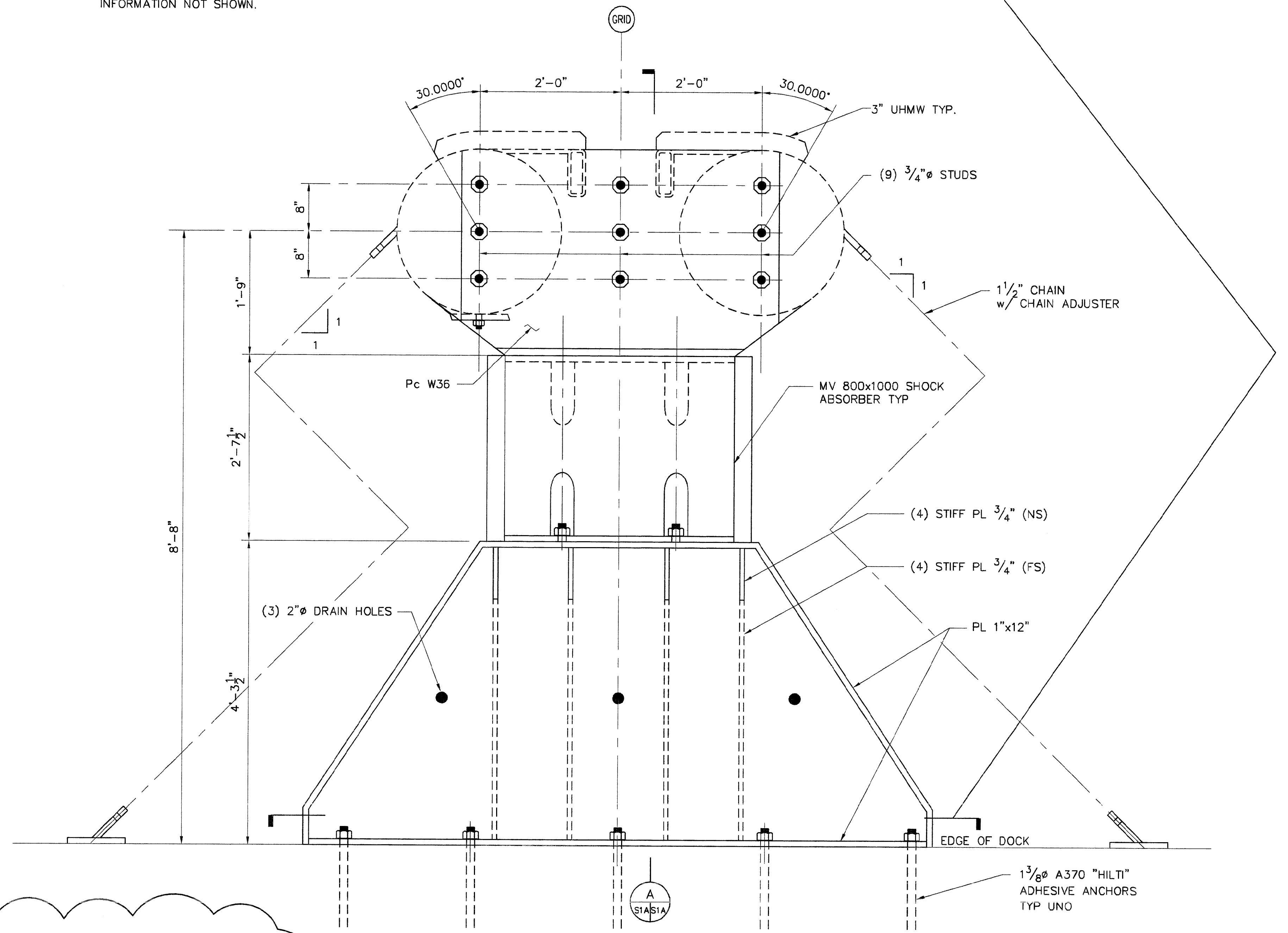
1 PLAN  
SCALE: NTS

3 ELEVATION  
SCALE: 1" = 1'-0"

THIS FENDER USED AT USCG BERTH GRID 1, & A THRU N. REFER TO TNH JOB, USCG BERTH MODIFICATIONS, JOB # 8239.012 FOR ADDITIONAL CHANGES.



\*NOTE: SEE DRAWING S18 FOR INFORMATION NOT SHOWN.



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

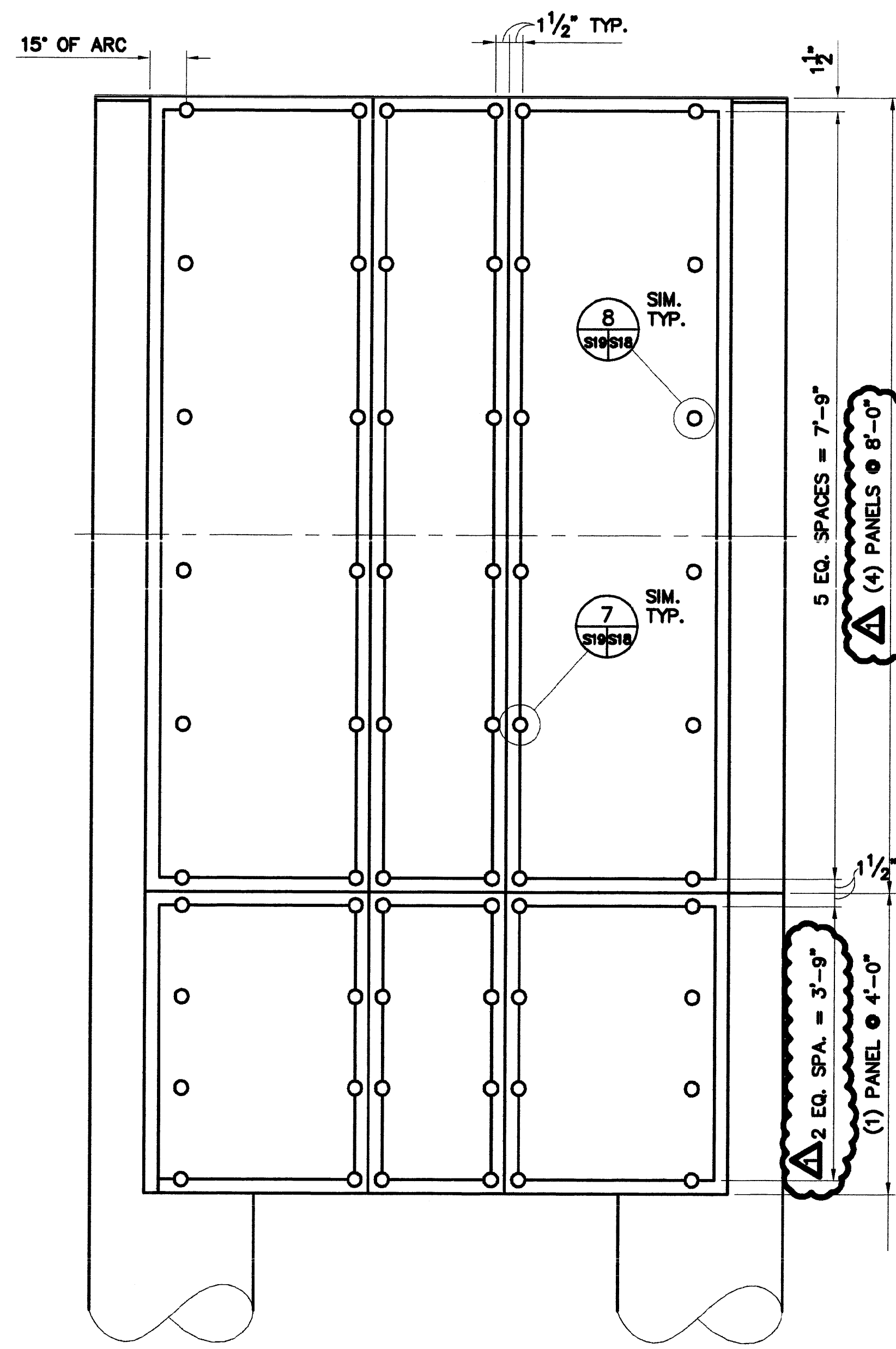


DESIGNED	MJS	CHECKED	MJS
DRAWN	WEH	CHECKED	MJS
SCALE	AS-BUILT	DATE	JUNE 2003
REV.	DATE	BY	REVISION
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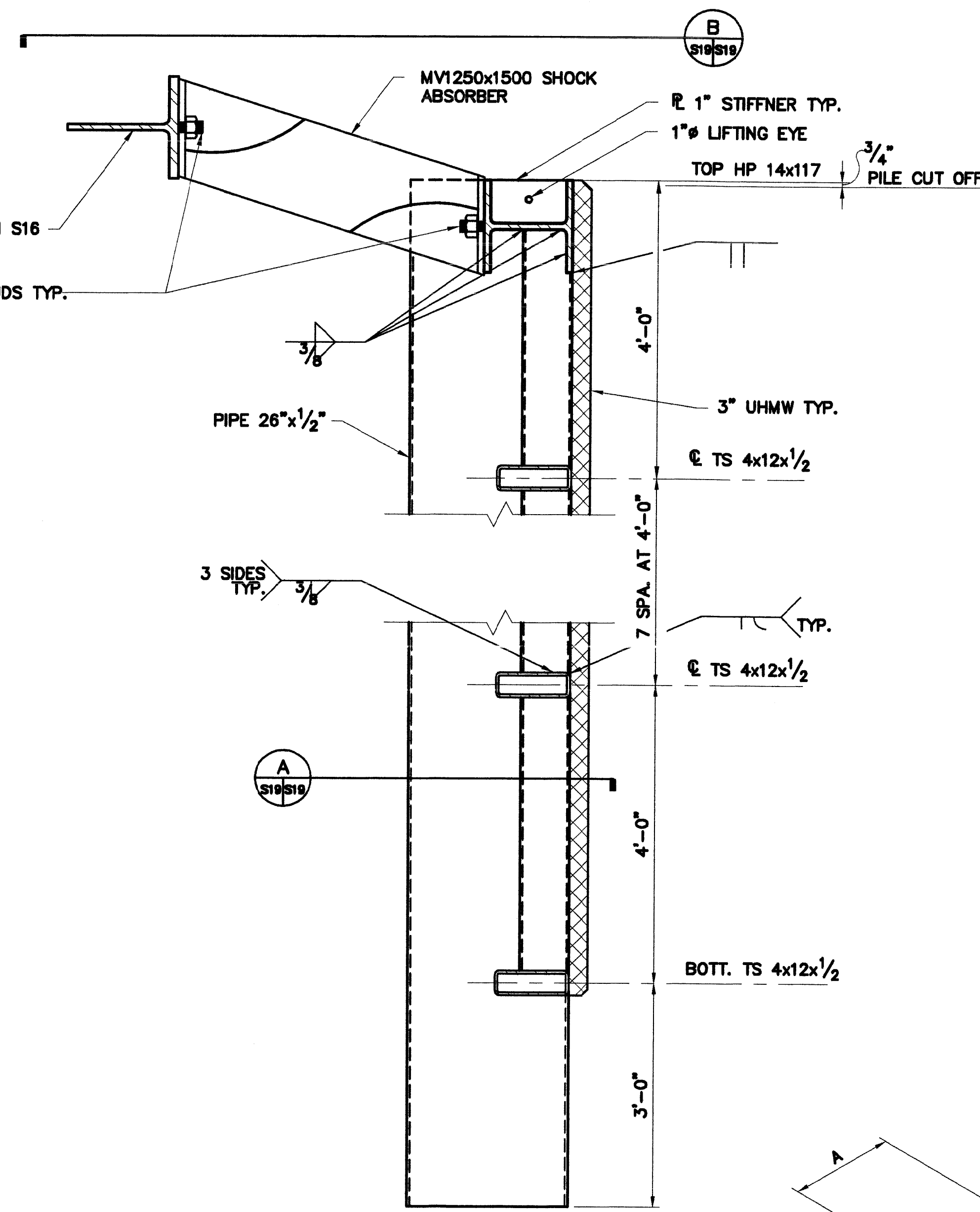
CITY OF HOMER  
REVISED FENDER DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET 1  
02114  
8239\_518A.DWG

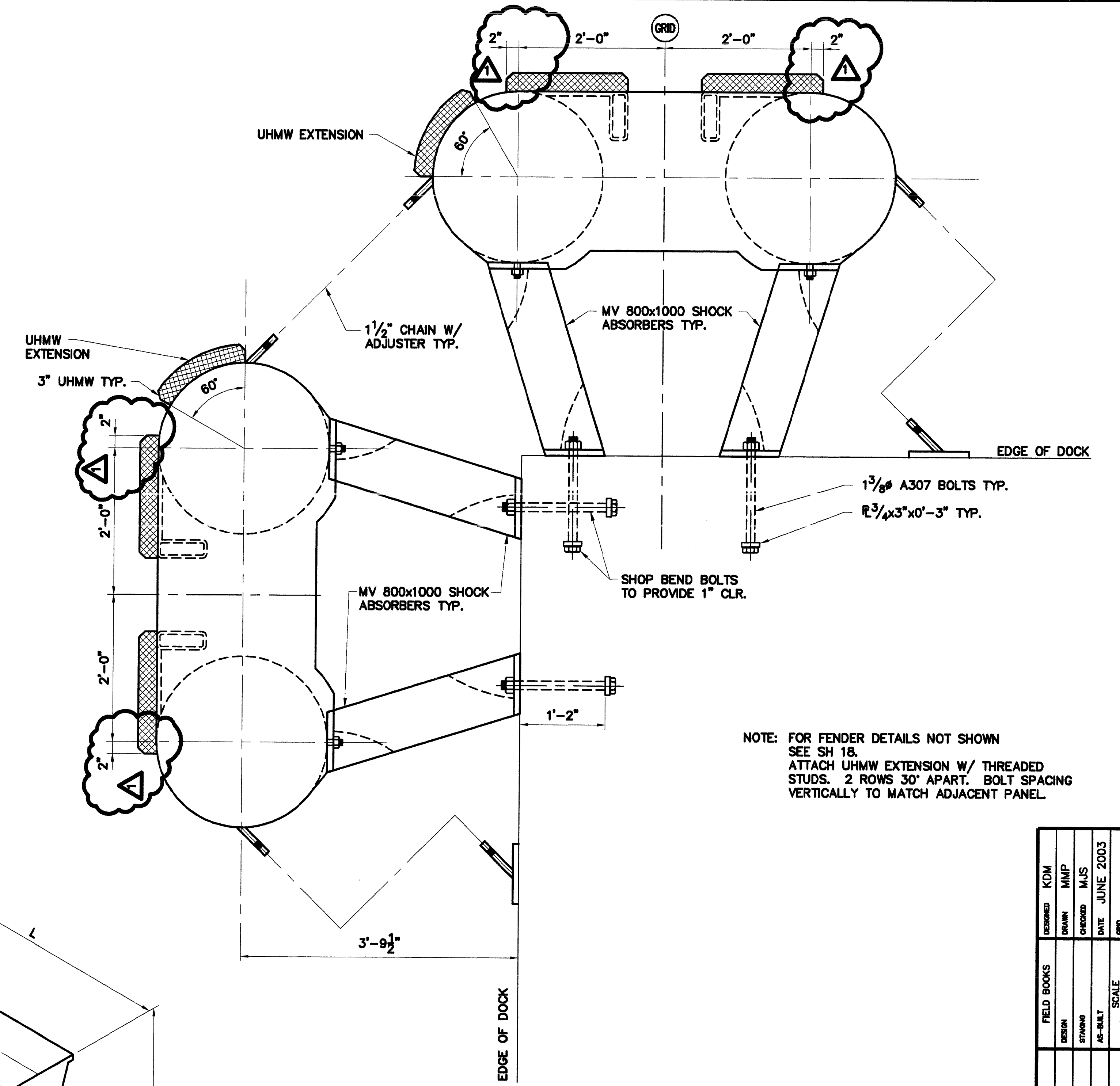
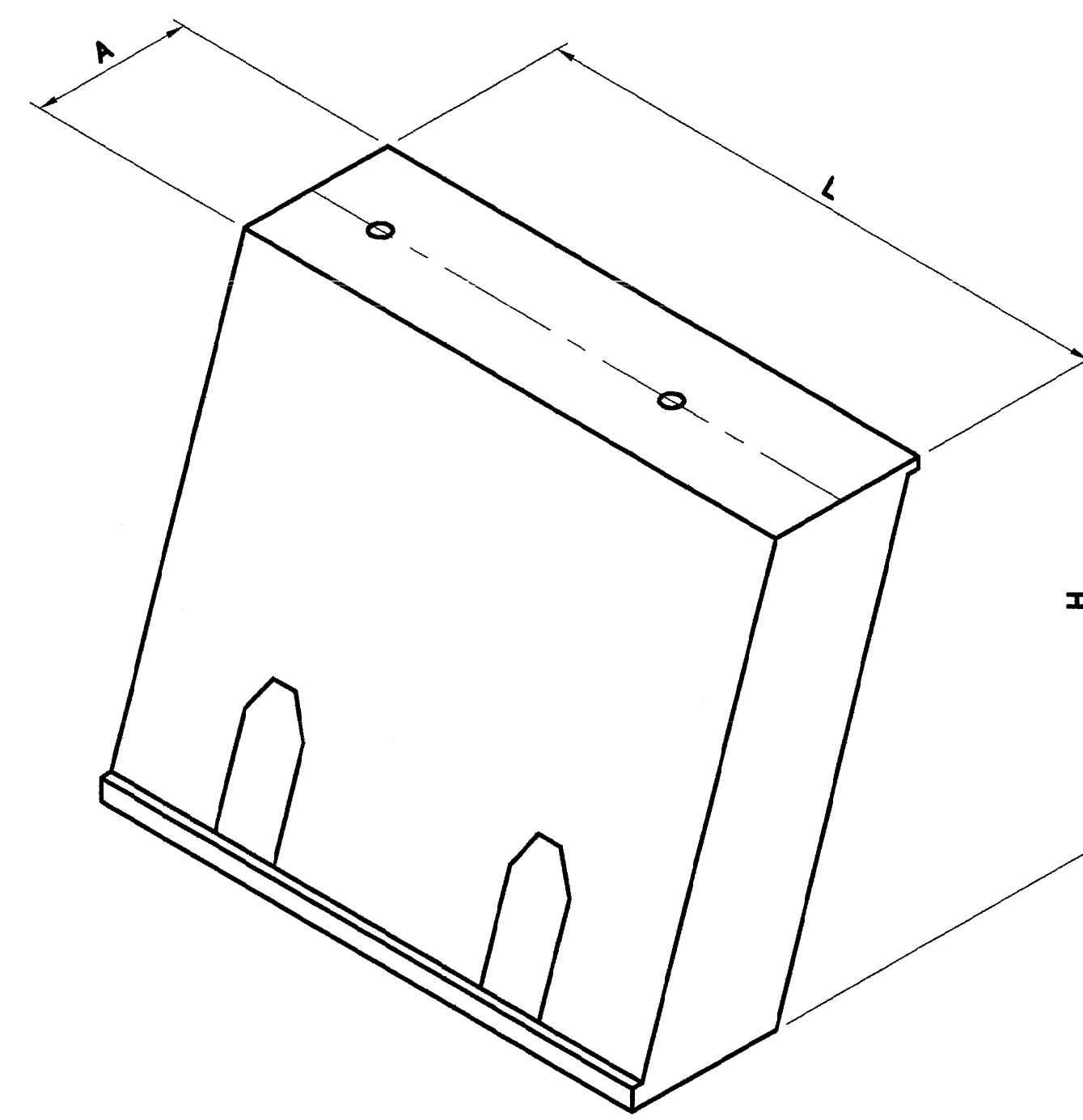




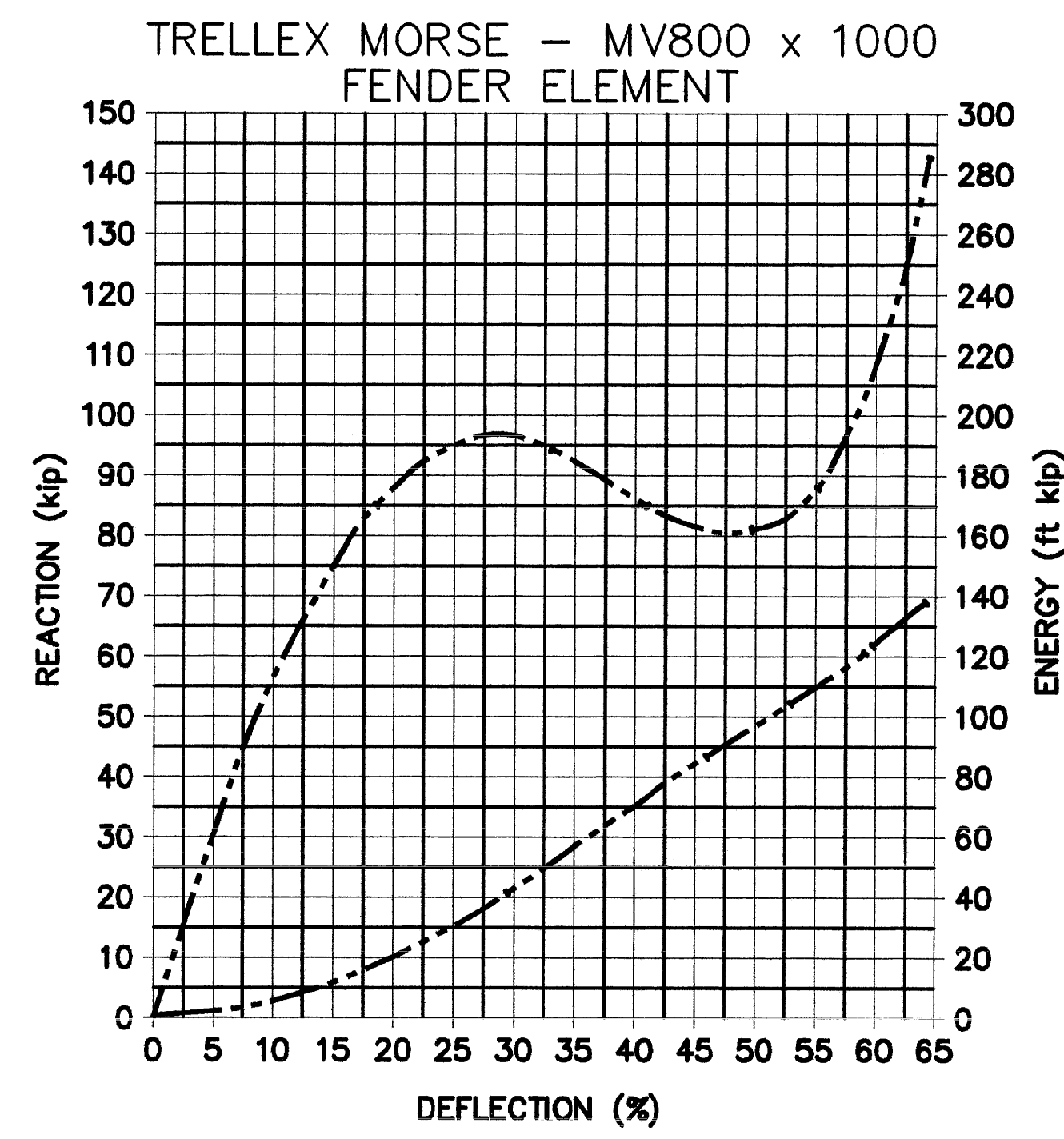
1 PLAN  
SCALE: 1" = 1'-0"



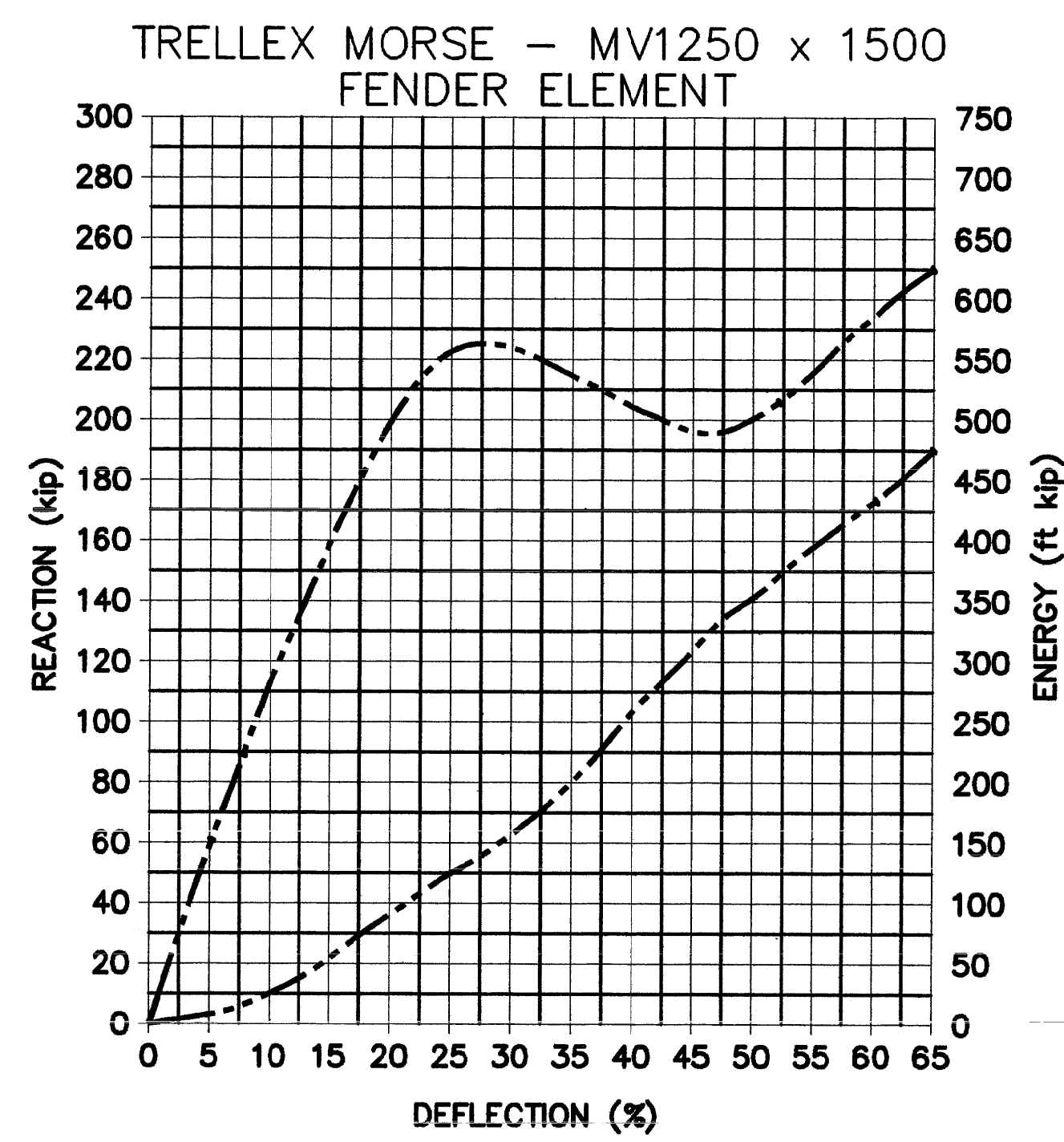
2 DETAIL  
SCALE: 3/4" = 1'-0"



3 CORNER FENDER DETAIL  
SCALE: 1" = 1'-0"



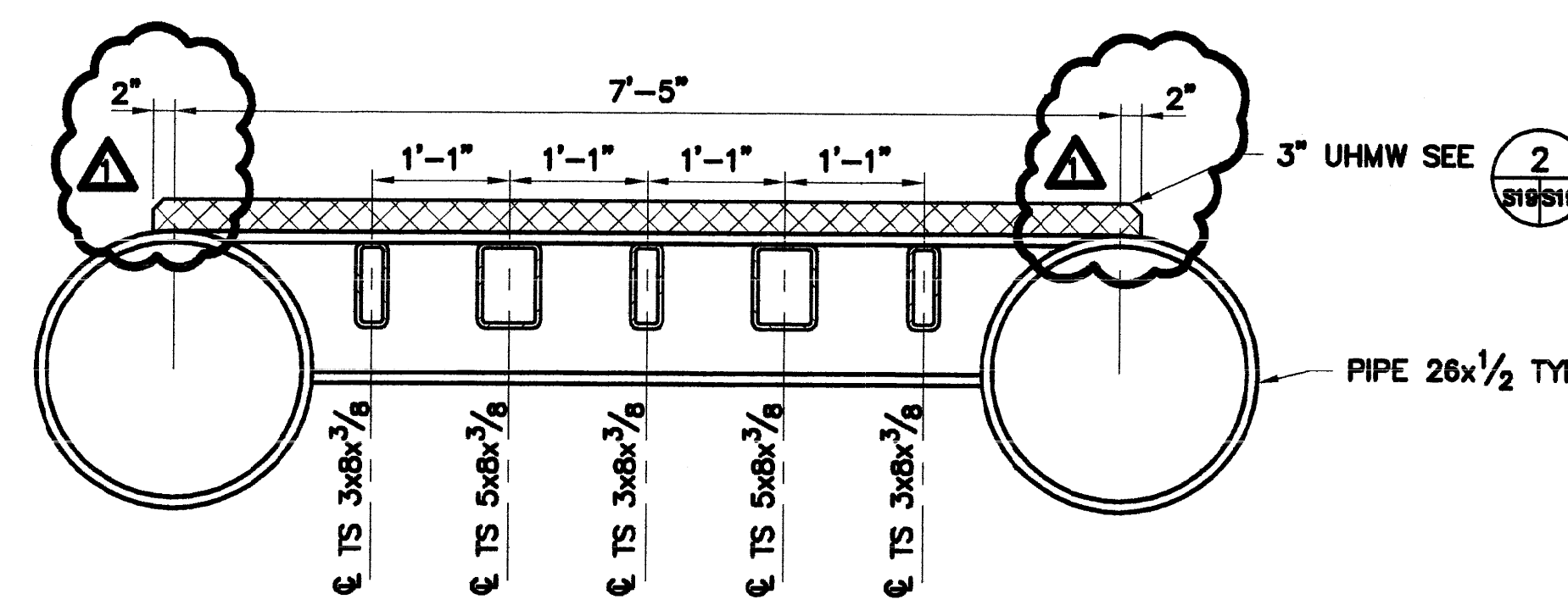
NOTES:  
1. GENERAL TOLERANCE FOR THE PERFORMANCE OF THE OF THE ABOVE FENDER IS  $\pm 10\%$ .  
2. RATED REACTION = 96 kips  
RATED ENERGY = 116 ft-kips  
RATED DEFLECTION = 18.1 in



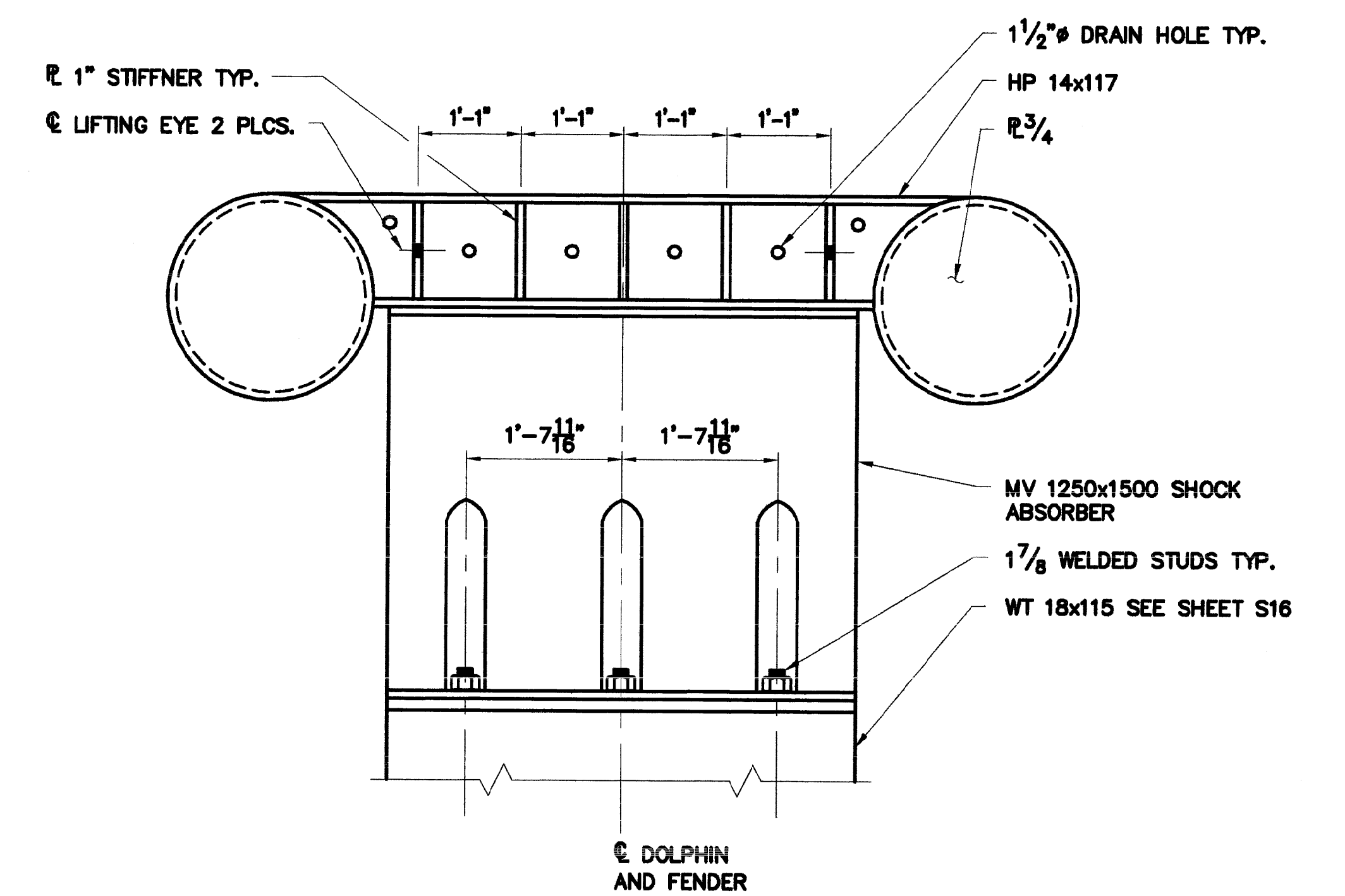
NOTES:  
1. GENERAL TOLERANCE FOR THE PERFORMANCE OF THE OF THE ABOVE FENDER IS  $\pm 10\%$ .  
2. RATED REACTION = 225 kips  
RATED ENERGY = 425 ft-kips  
RATED DEFLECTION = 28.3 in

LOAD DEFLECTION CURVES  
SCALE: N/A

SIZE OF ELEMENT	H	A	L
MV 800	800	250	1000
MV 1250	1250	401	1500



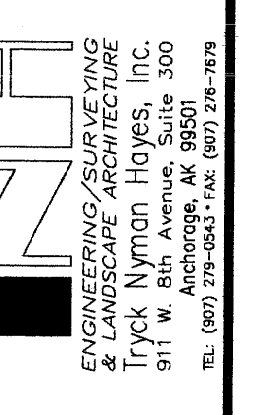
A SECTION  
SCALE: 3/4" = 1'-0"



B SECTION  
SCALE: 3/4" = 1'-0"

NOTE: FOR FENDER DETAILS NOT SHOWN SEE SH 18. ATTACH UHMW EXTENSION W/ THREADED STUDS. 2 ROWS 30" APART. BOLT SPACING VERTICALLY TO MATCH ADJACENT PANEL.

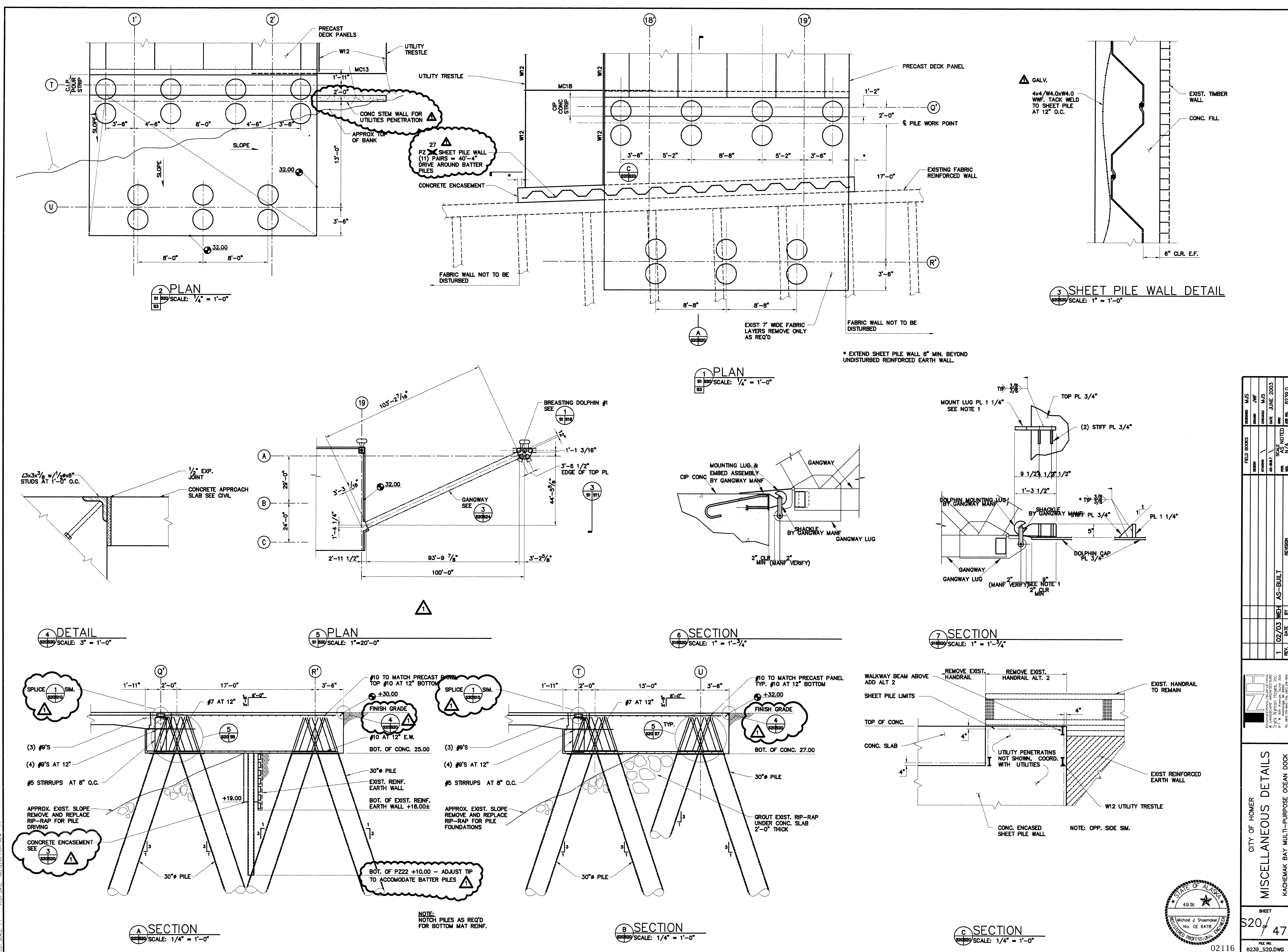
DESIGNED	KCM	DATE	22.03.0
CHECKED <td>MMP <td>DATE <td>JUNE 2003 </td></td></td>	MMP <td>DATE <td>JUNE 2003 </td></td>	DATE <td>JUNE 2003 </td>	JUNE 2003
APPROVED <td>M.A.S <td>DATE <td>JUNE 2003 </td></td></td>	M.A.S <td>DATE <td>JUNE 2003 </td></td>	DATE <td>JUNE 2003 </td>	JUNE 2003
SCALE <td>1 <td>AS-BUILT <td></td> </td></td>	1 <td>AS-BUILT <td></td> </td>	AS-BUILT <td></td>	
REV. <td> <td>BY <td></td> </td></td>	<td>BY <td></td> </td>	BY <td></td>	
REVISION <td> <td>DATE <td></td> </td></td>	<td>DATE <td></td> </td>	DATE <td></td>	



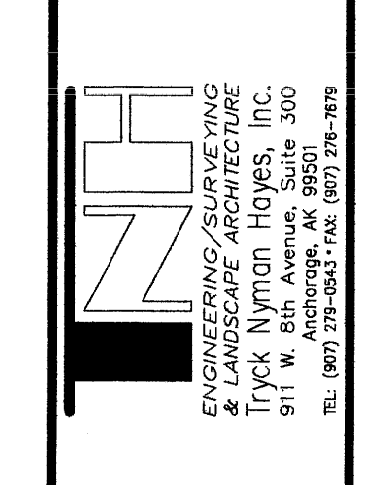
CITY OF HOMER  
FENDER DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
S19/47





NO.	DATE	BY	REVISION
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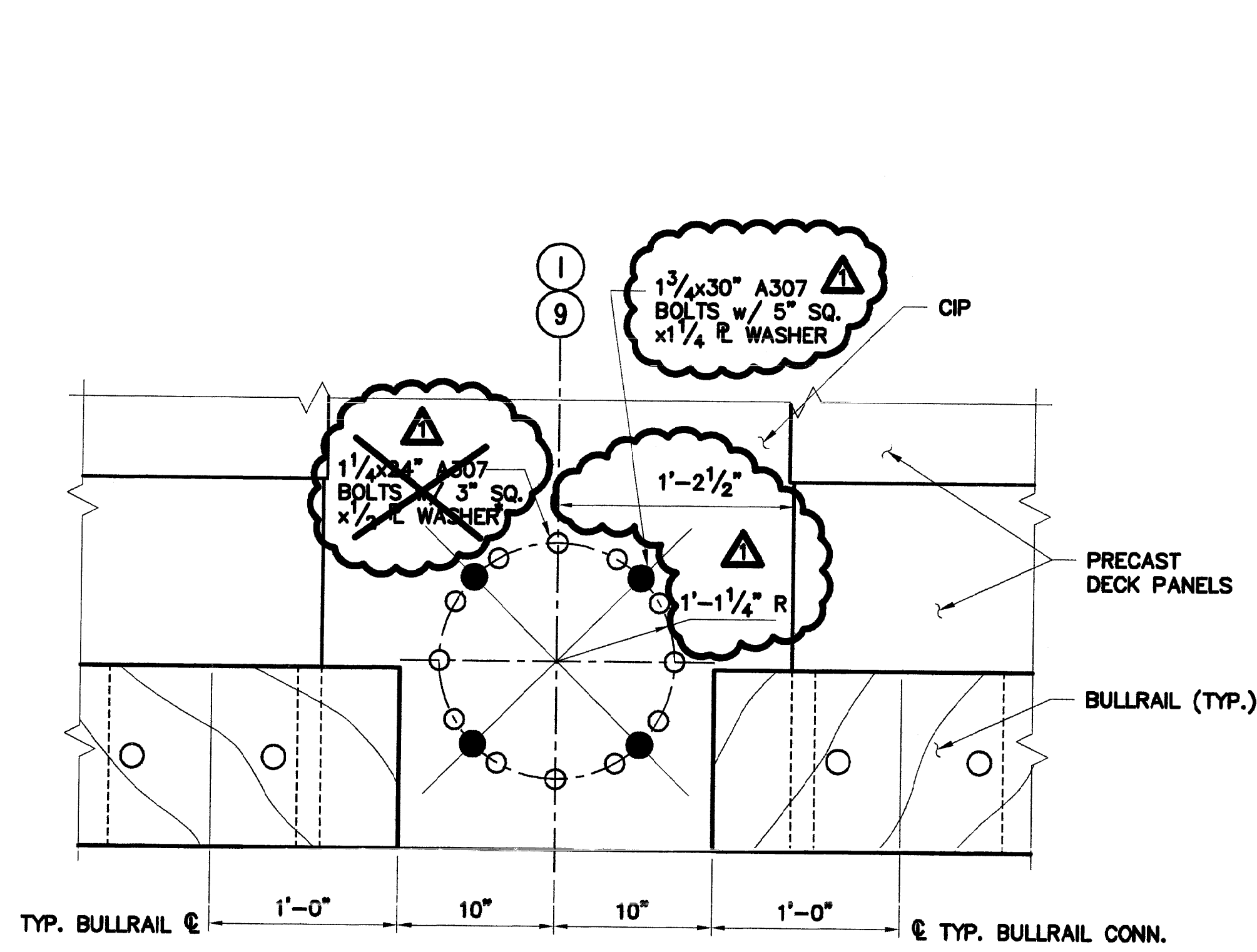


CITY OF HOMER  
 MISCELLANEOUS DETAILS  
 KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET 520 OF 47

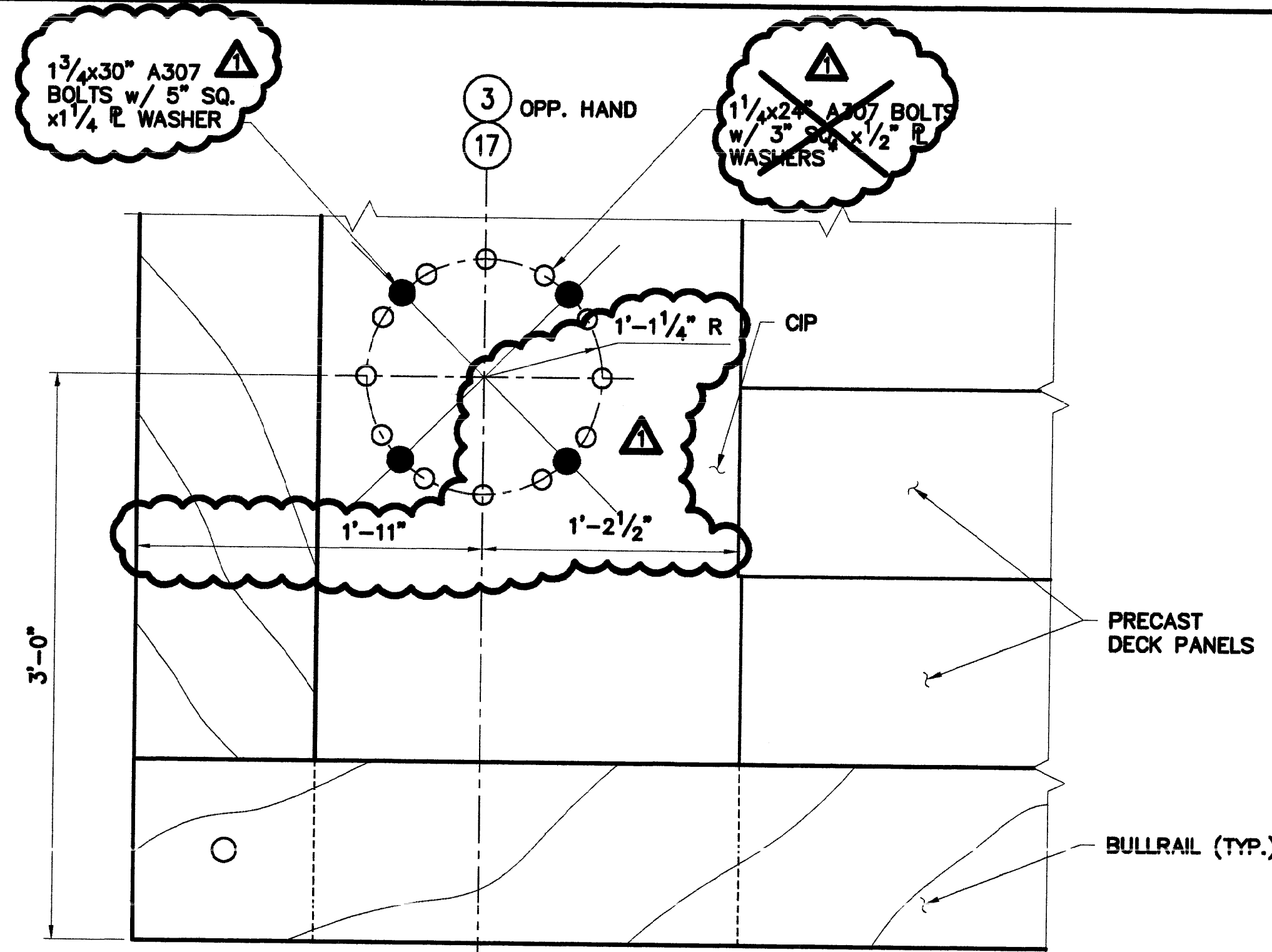
FILE NO. 8239\_S20.DWG





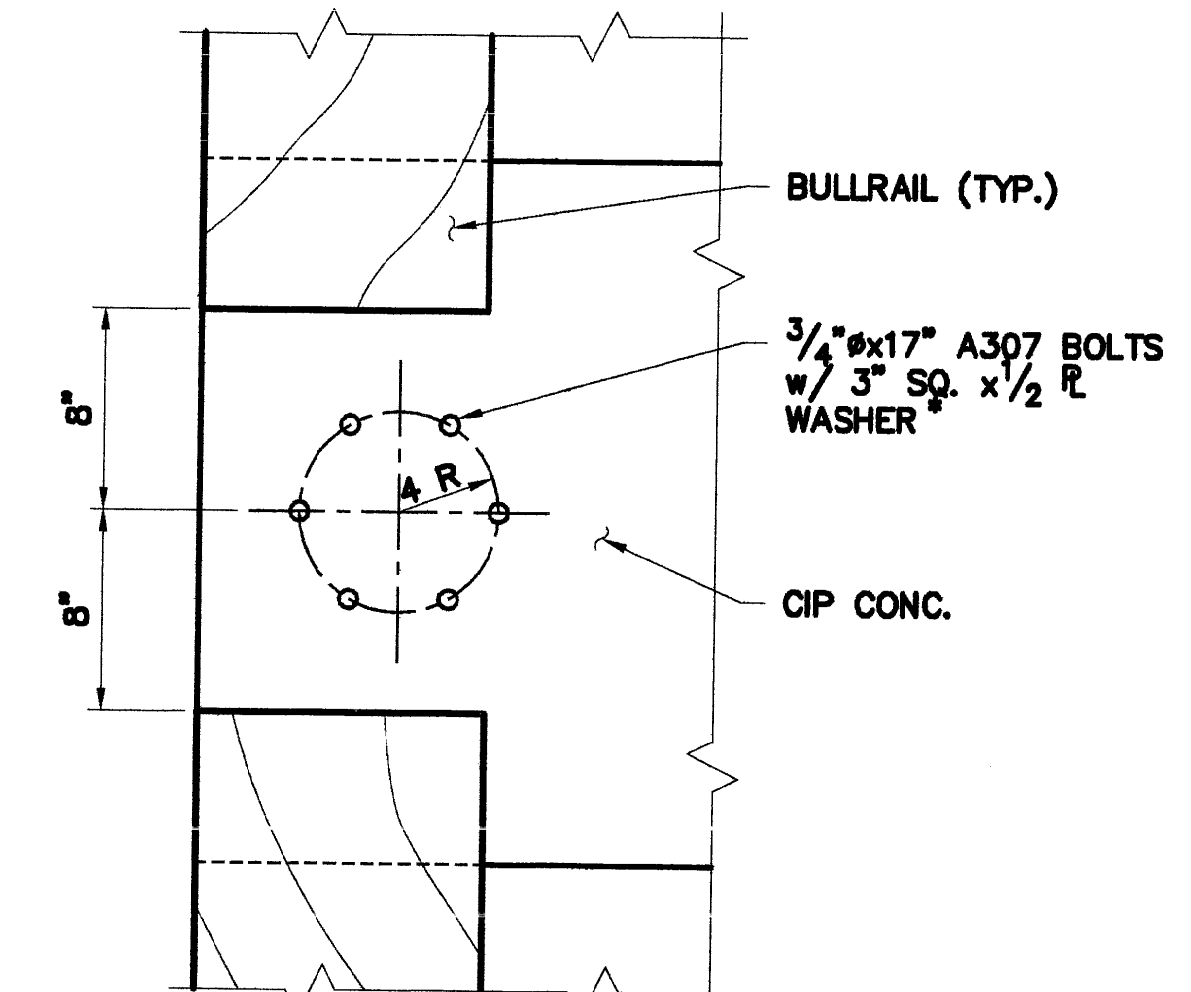
\* BOLT SIZE AND PATTERN MAY VARY w/ MANUFACTURER. CONTRACTOR COORDINATE w/ POLES SUPPLIED

1 50' LIGHT POLE BASE  
SCALE: 1 1/2" = 1'-0"



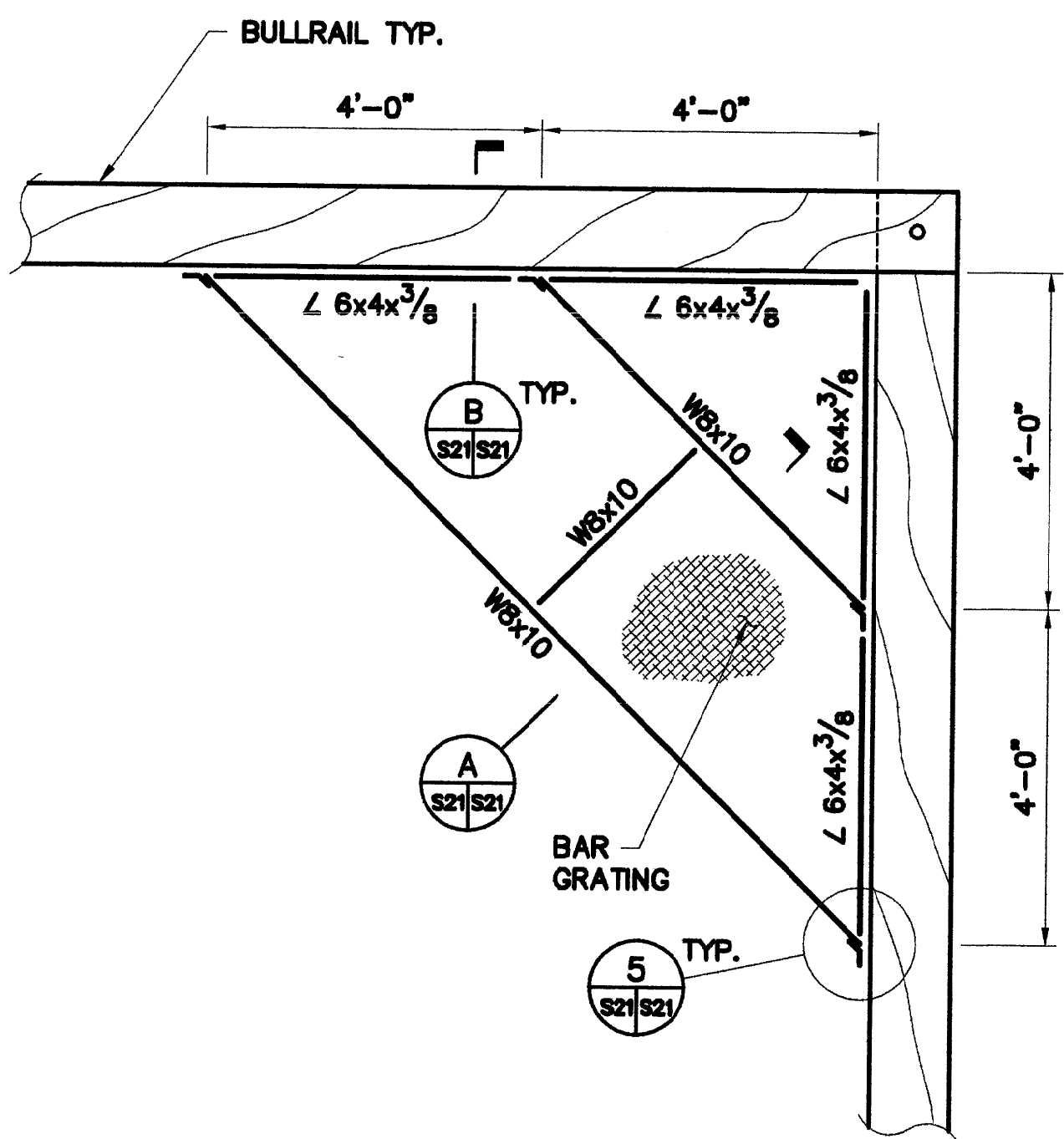
\* BOLT SIZE AND PATTERN MAY VARY w/ MANUFACTURER. CONTRACTOR COORDINATE w/ FILES SUPPLIED

2 50' LIGHT POLE BASE  
SCALE: 1 1/2" = 1'-0"

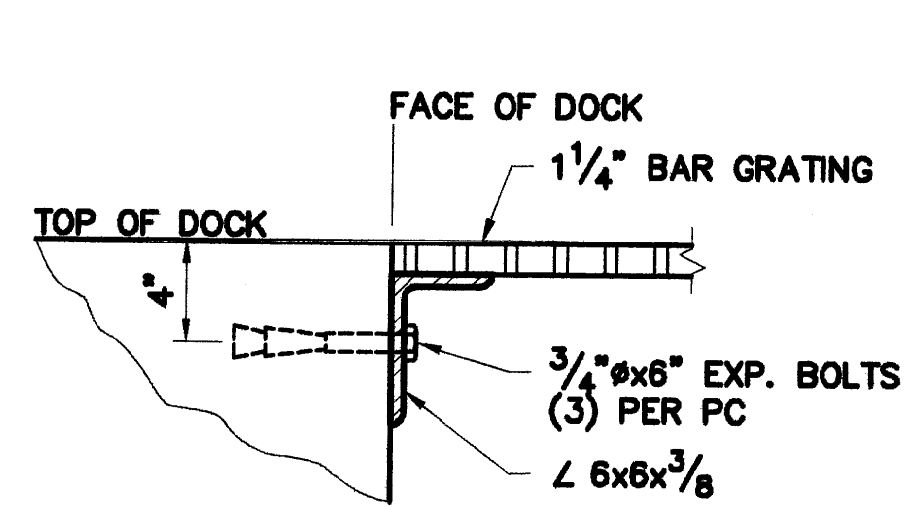


\* BOLT SIZE AND PATTERN MAY VARY w/ MANUFACTURER. CONTRACTOR COORDINATE w/ POLES SUPPLIED

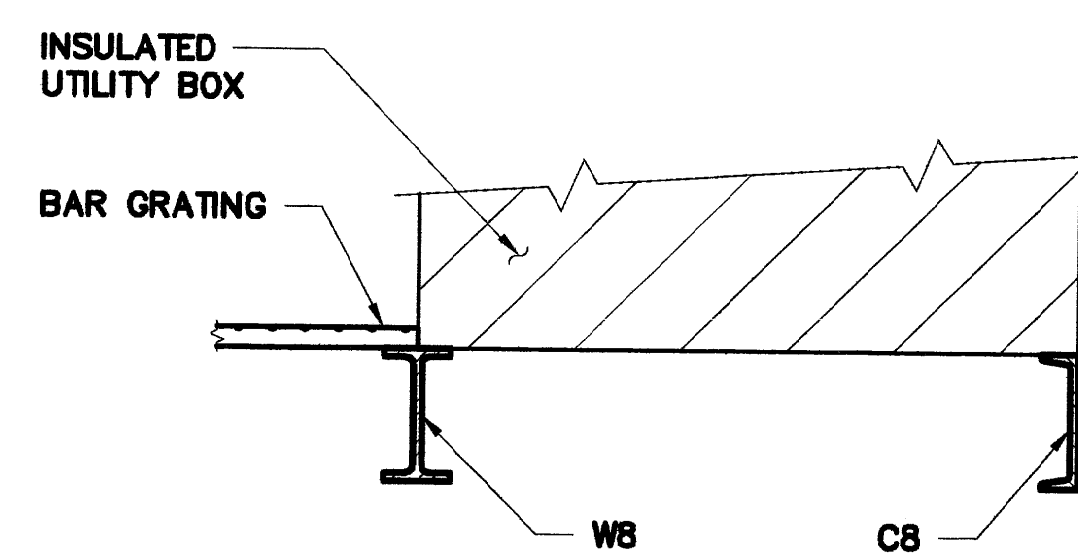
3 12' LIGHT POLE BASE  
SCALE: 1 1/2" = 1'-0"



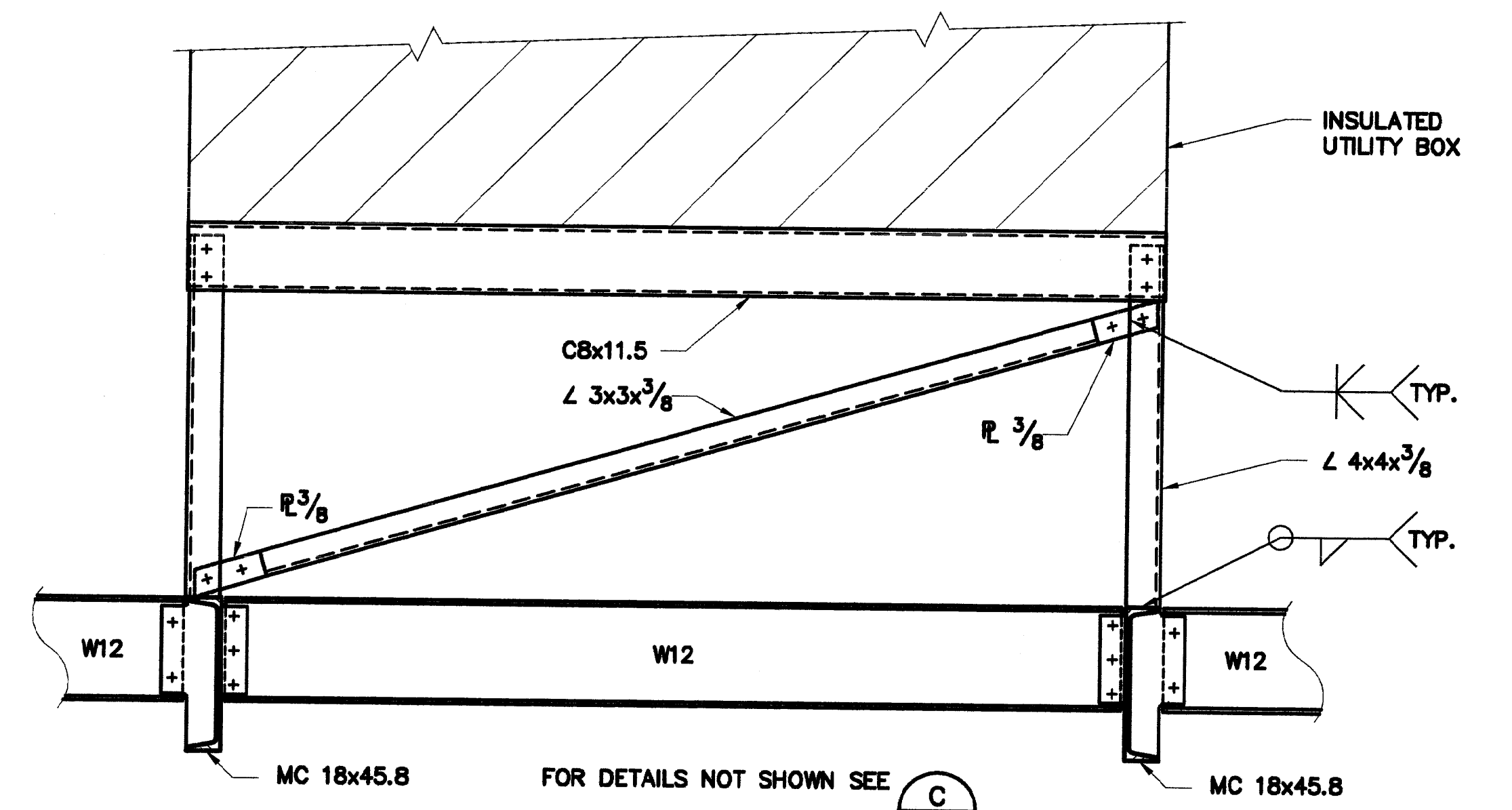
4 HYDRANT FRAMING PLAN  
SCALE: 1/2" = 1'-0"



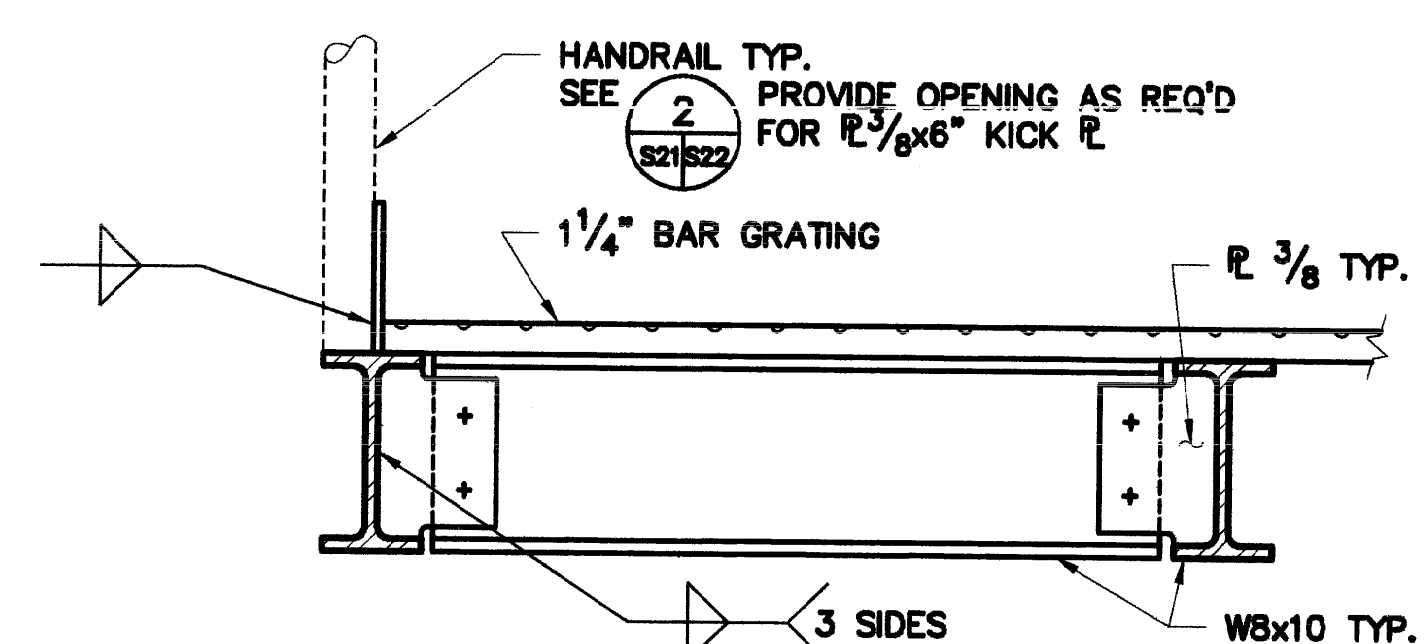
B DETAIL  
SCALE: 1/2" = 1'-0"



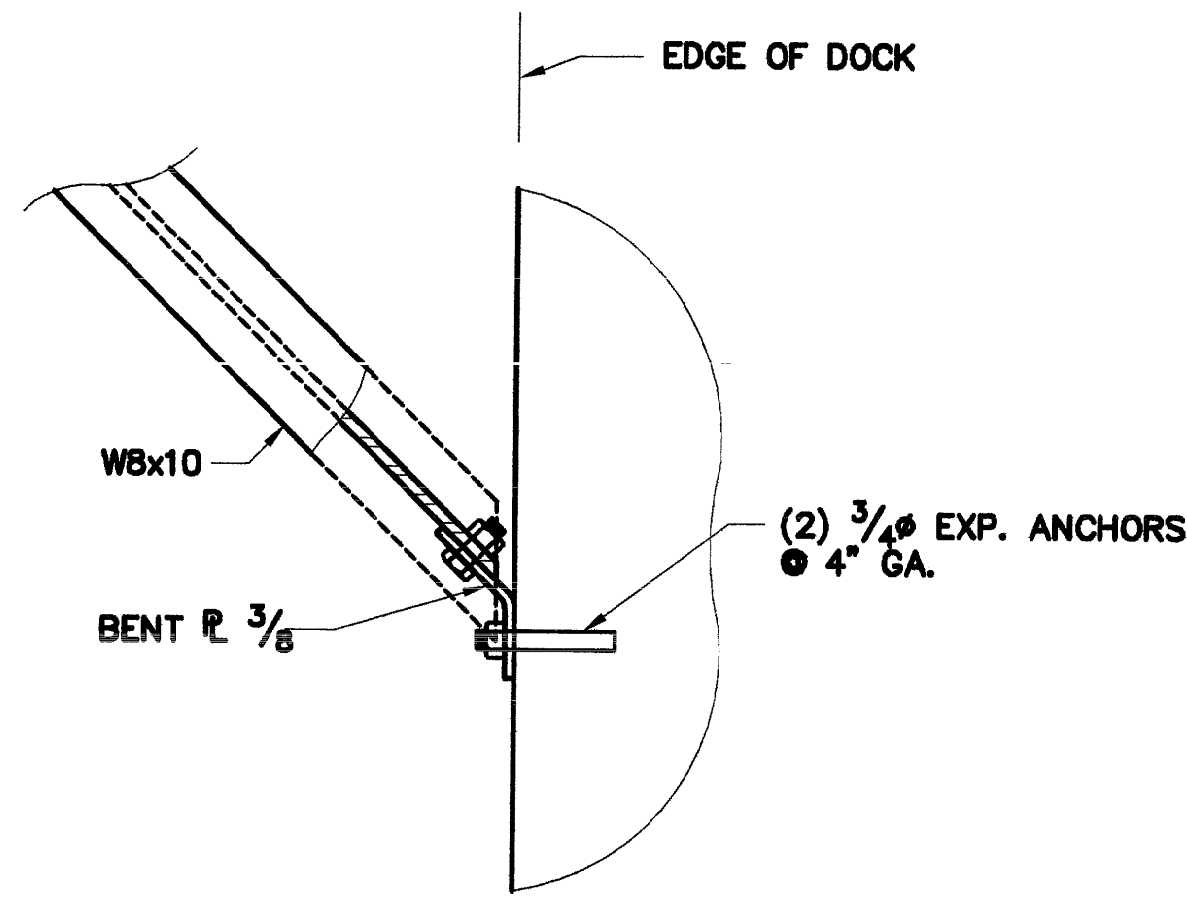
C UTILITY BOX FRAMING SECT.  
SCALE: 1 1/2" = 1'-0"



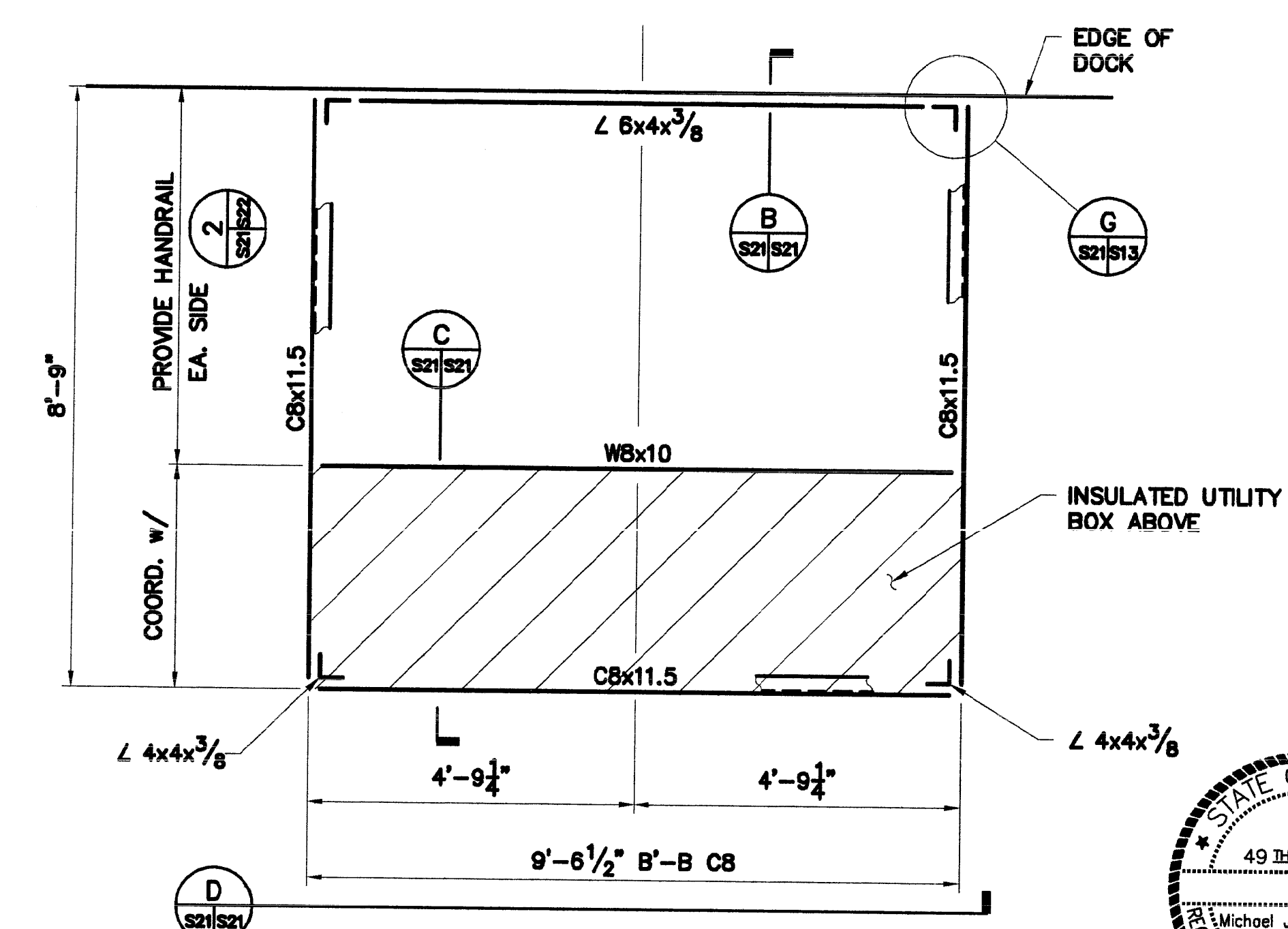
D UTILITY BOX FRAMING SECT.  
SCALE: 3/4" = 1'-0"



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

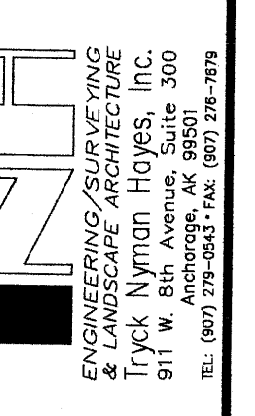


5 DETAIL  
SCALE: 1 1/2" = 1'-0"



6 UTILITY BOX FRAMING PLAN  
SCALE: 1/2" = 1'-0"

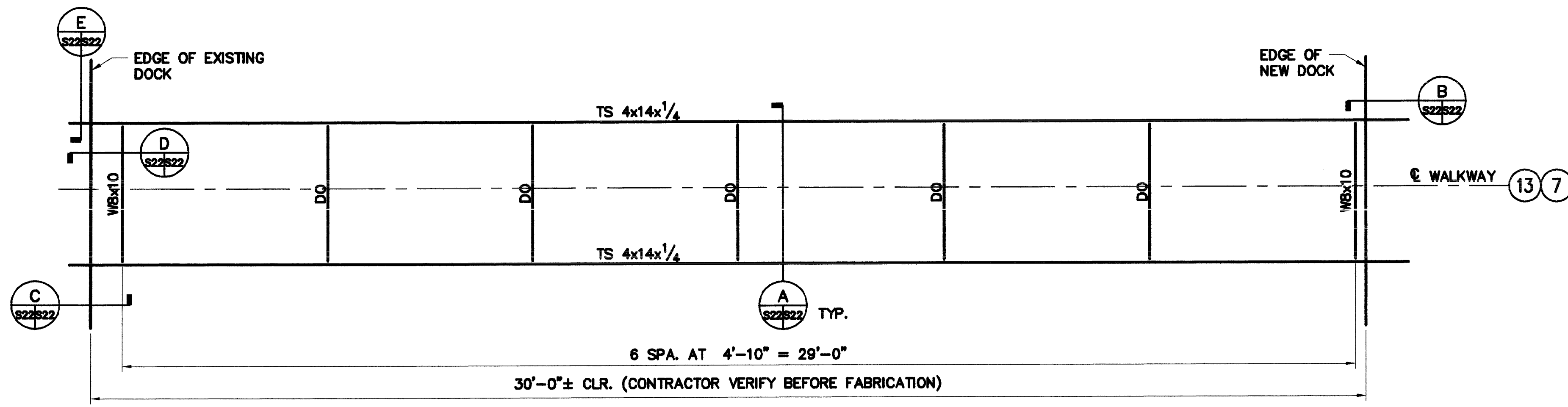
REVISION	DATE	BY	APP.	SCALE	NOTED	NO.
1	02/03	MEH	AS-BUILT	4/7	4/7	8239.0



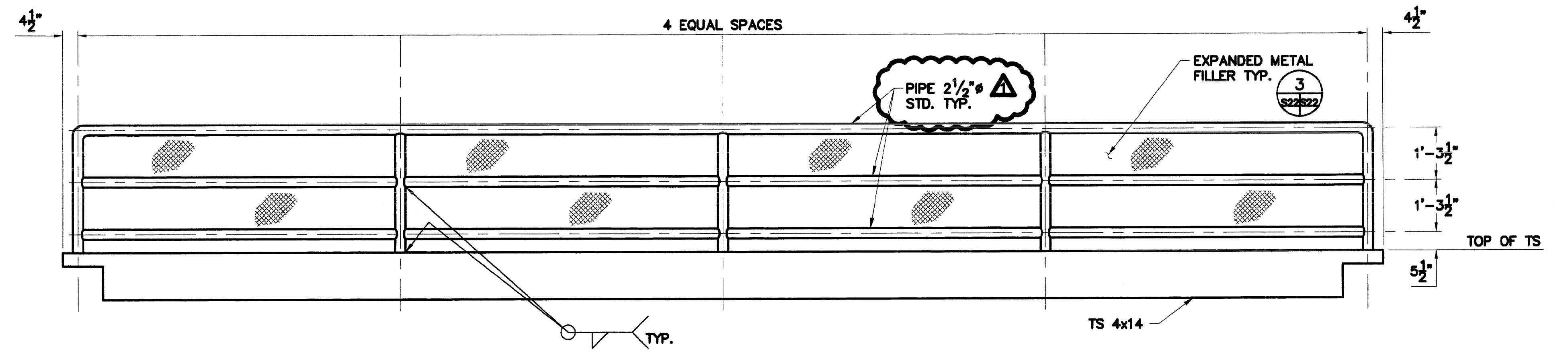
CITY OF HOMER  
MISCELLANEOUS DETAILS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
S21/47

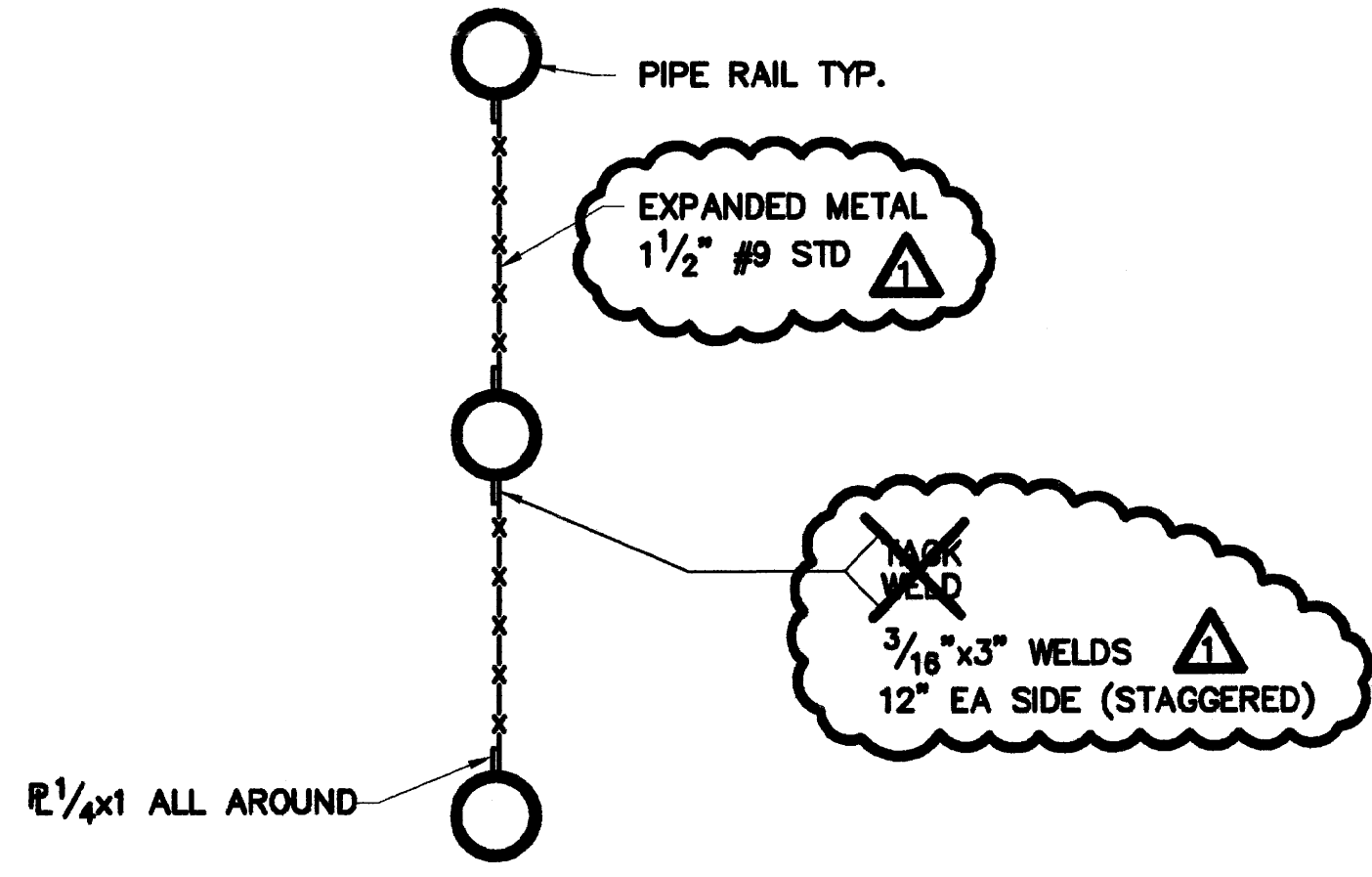




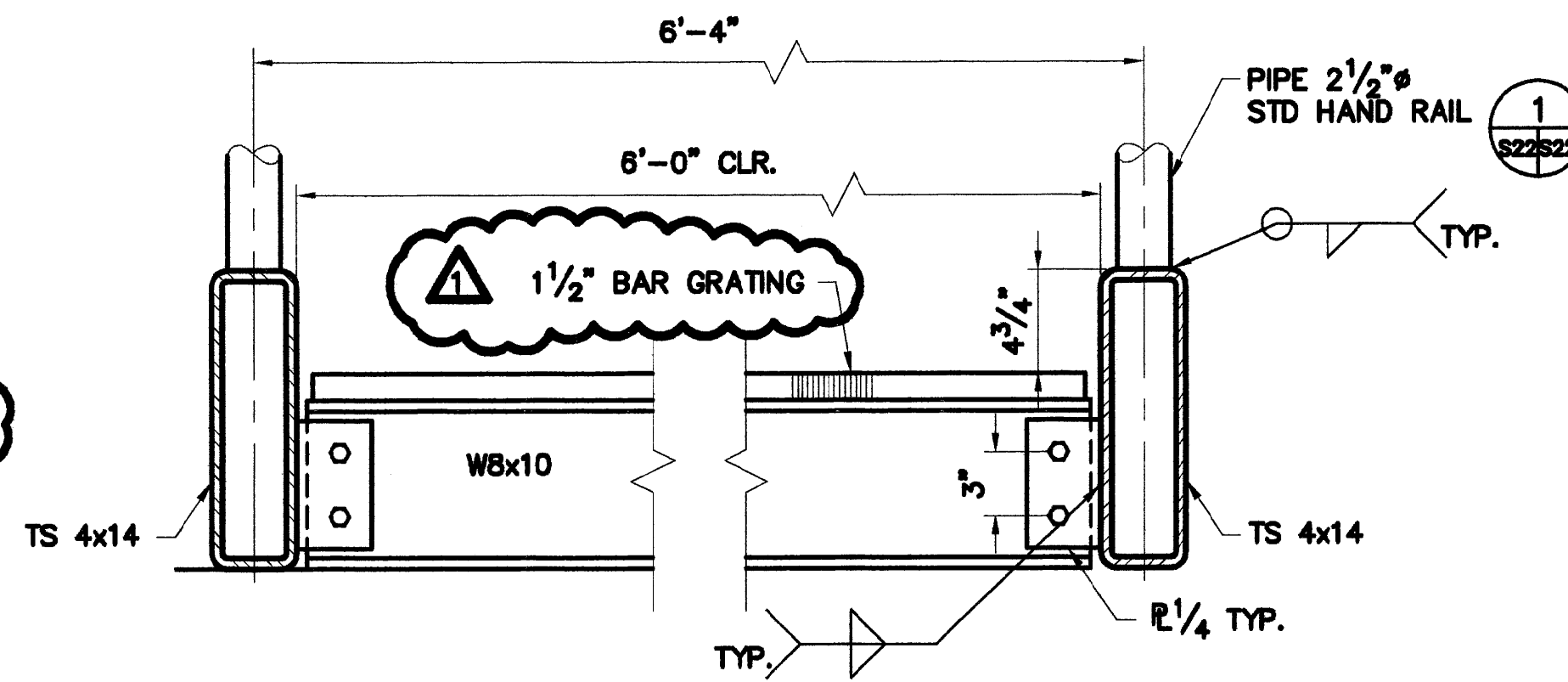
1 FRAMING PLAN  
SCALE: 1/2" = 1'-0"



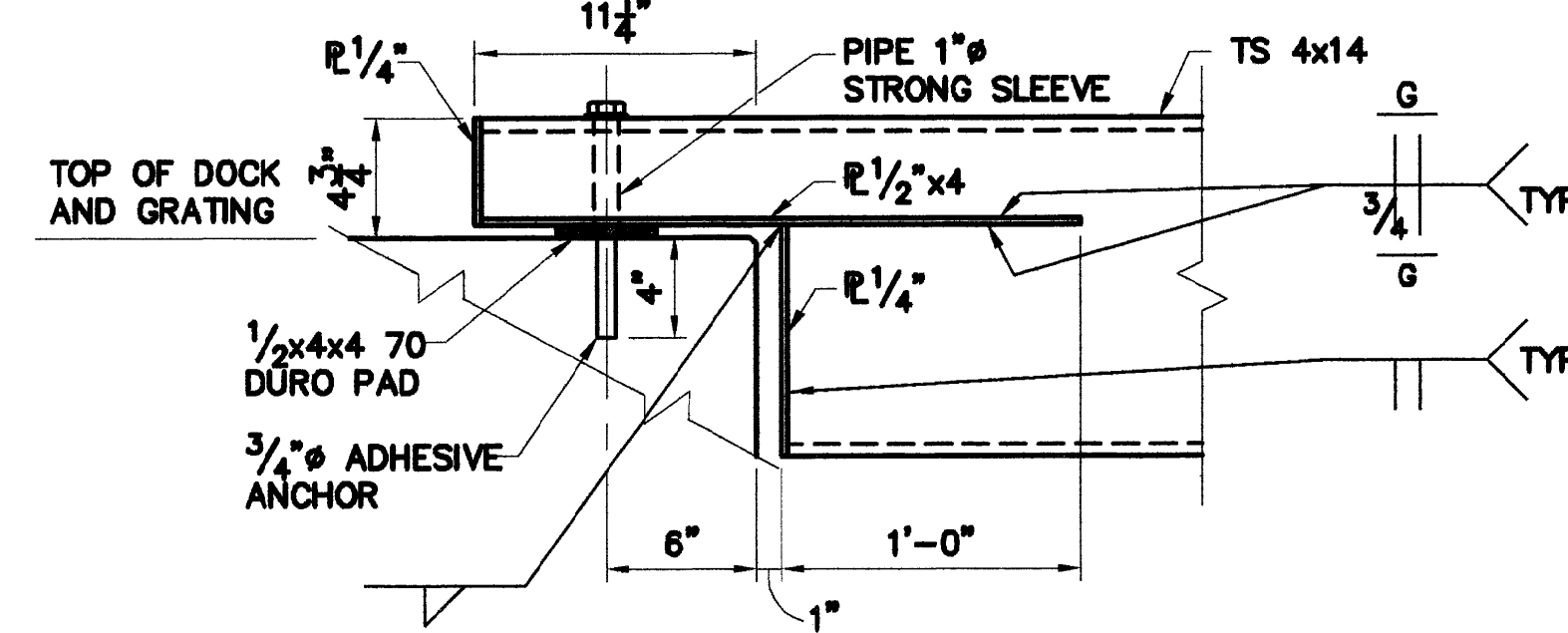
2 HAND RAIL DETAIL  
SCALE: 1/2" = 1'-0"



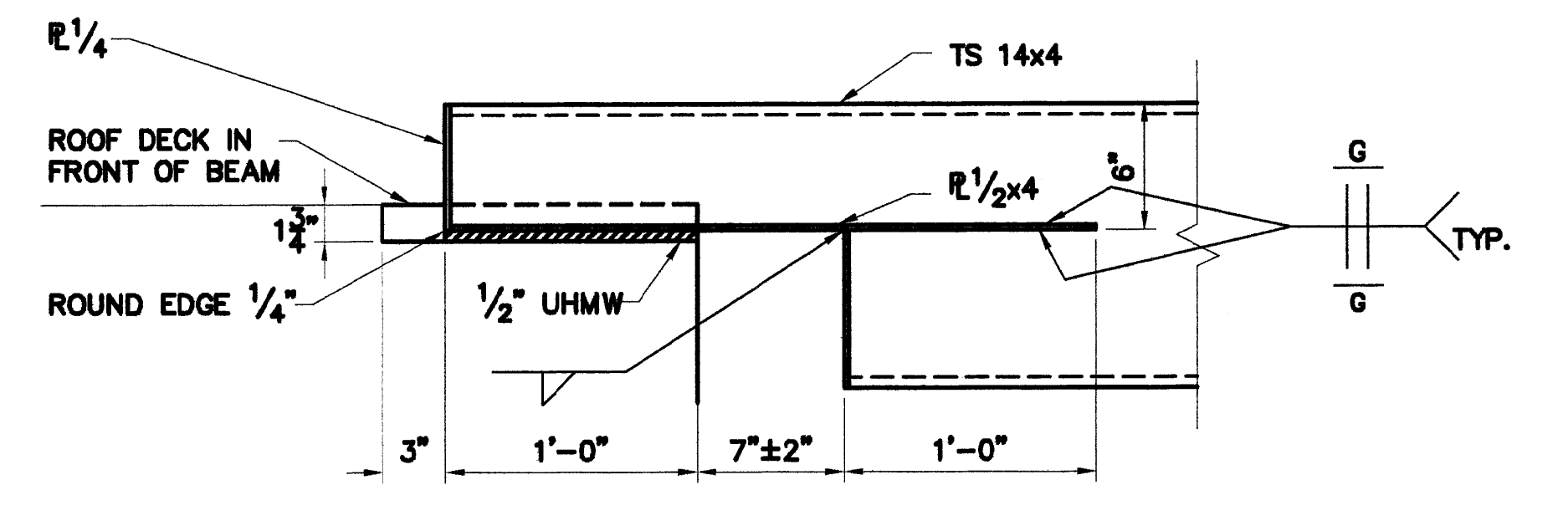
3 HANDRAIL SECTION  
SCALE: 1/2" = 1'-0"



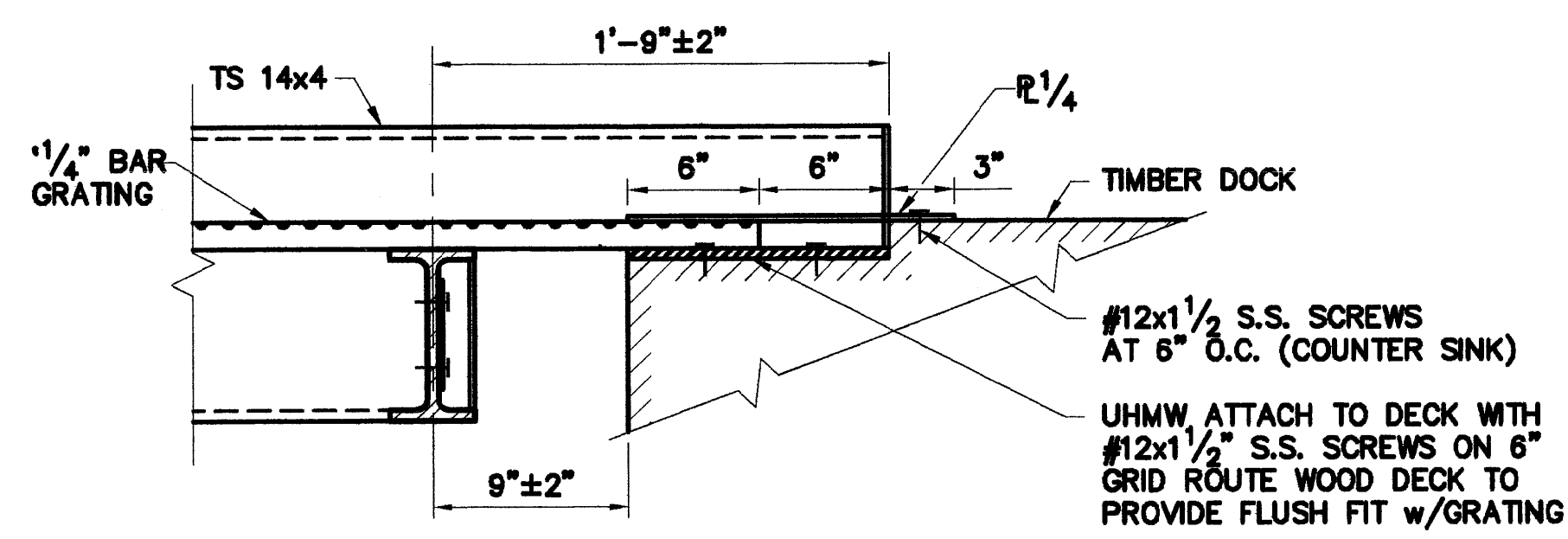
4 WALKWAY SECTION  
SCALE: 1/2" = 1'-0"



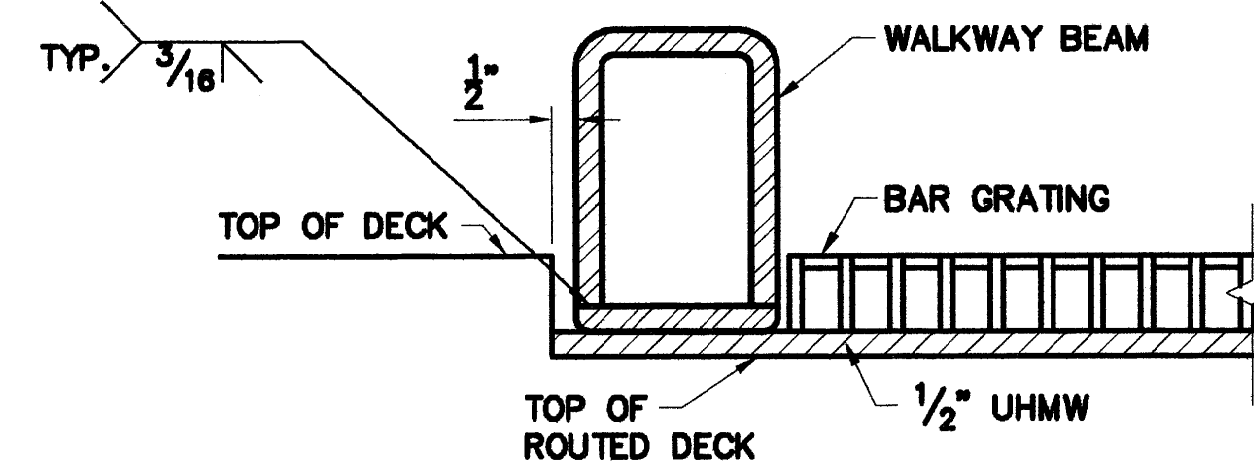
5 SECTION B  
SCALE: 1/2" = 1'-0"



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



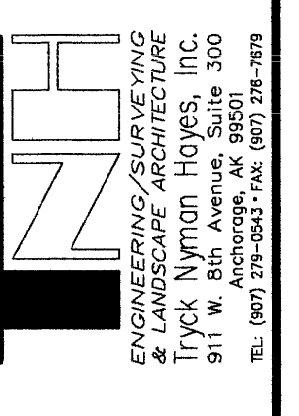
7 SECTION D  
SCALE: 1/2" = 1'-0"



8 SECTION E  
SCALE: 3" = 1'-0"

NOTE: GRATING SHALL BE EQUIPPED W/RECTANGULAR CROSS BARS. ATTACH W/BOLTED CONNECTIONS (I-BOLTS OR CLAMPS)

REVISION	DATE	BY	AS-BUILT	NOTED	SCALE	NO.
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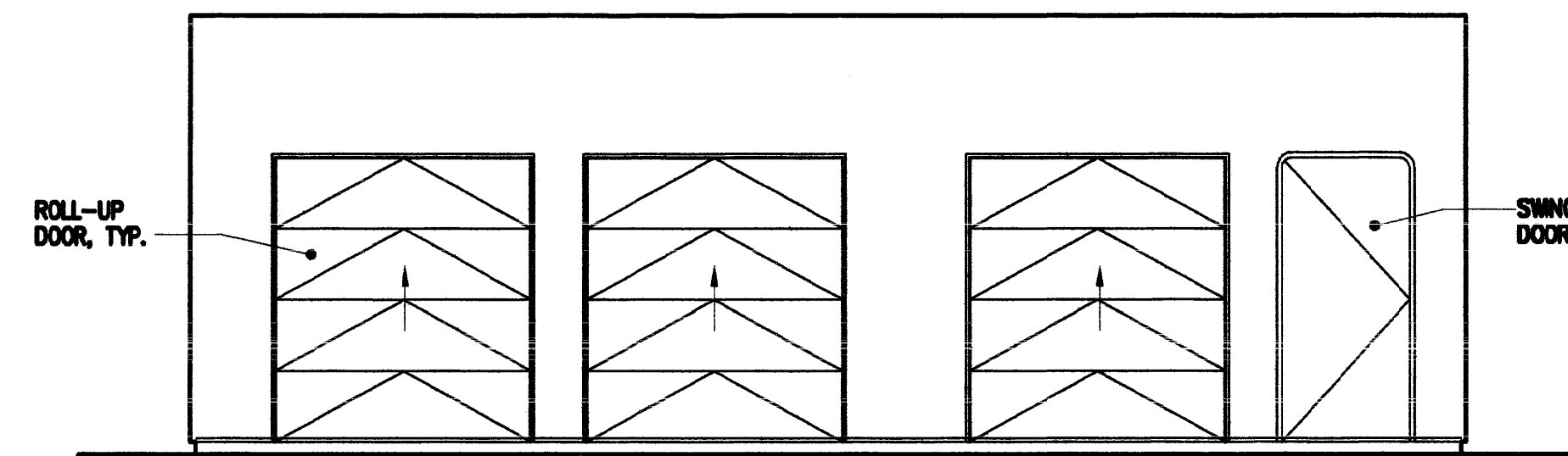
CITY OF HOMER  
OCEAN DOCK - TIMBER  
DOCK WALKWAYS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
S22/47  
FILE NO.  
8239\_S22.DWG

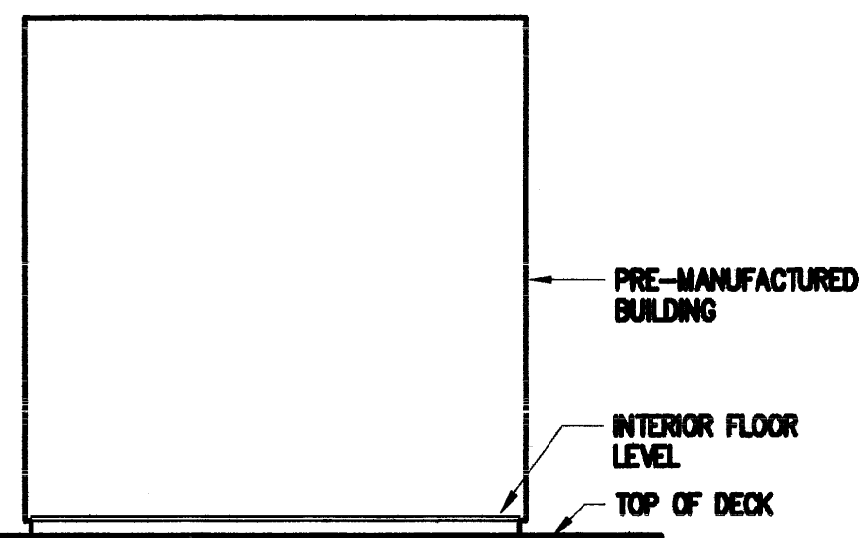


02118

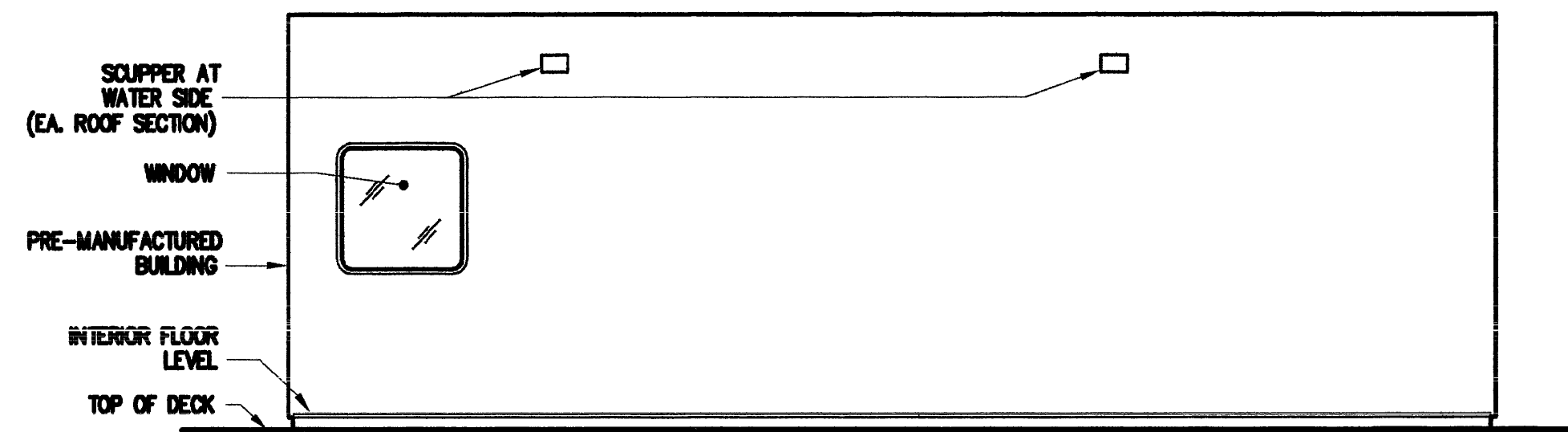




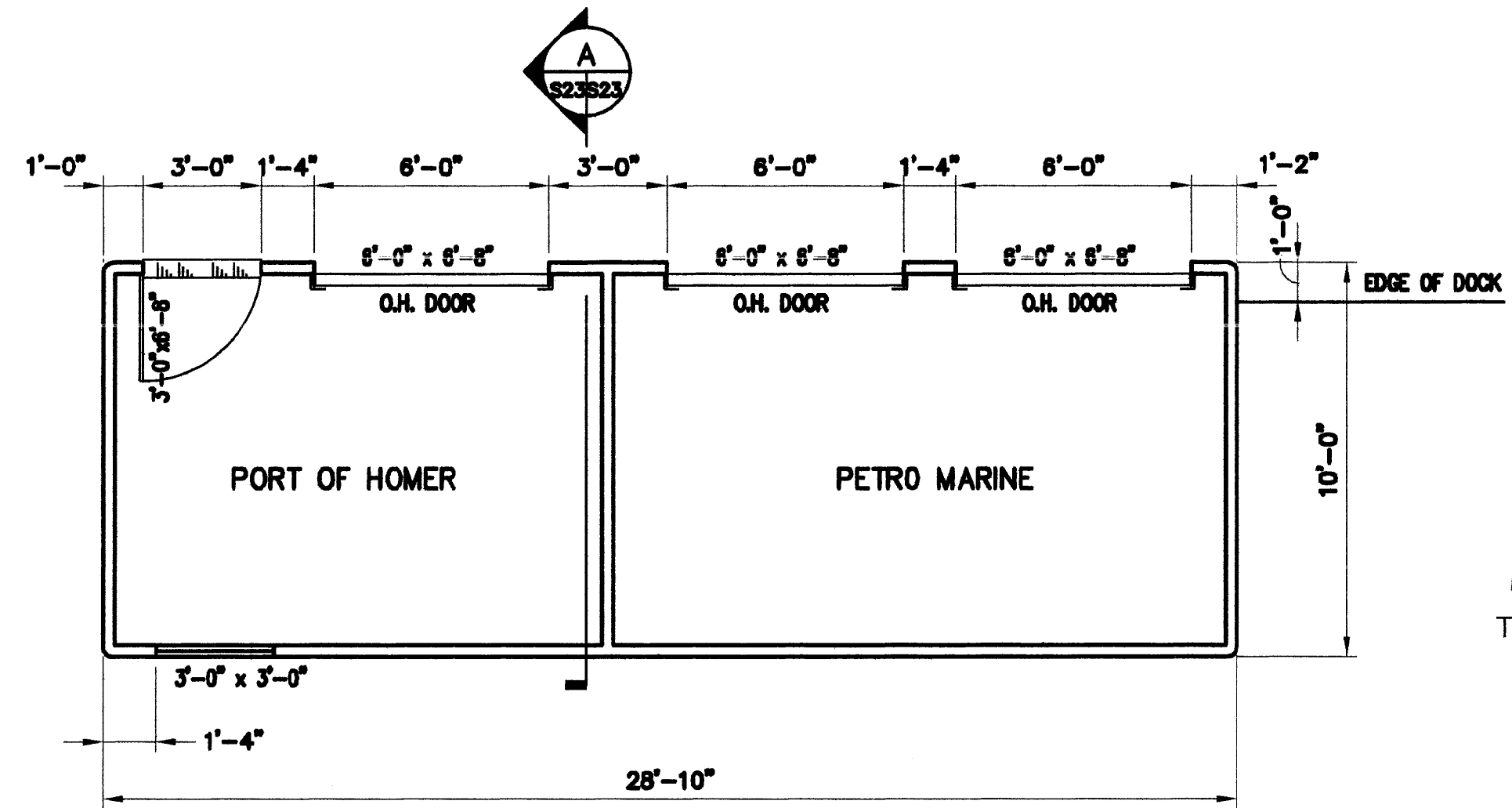
PUMP HOUSE NORTH ELEVATION  
SCALE: 1/4" = 1'-0"



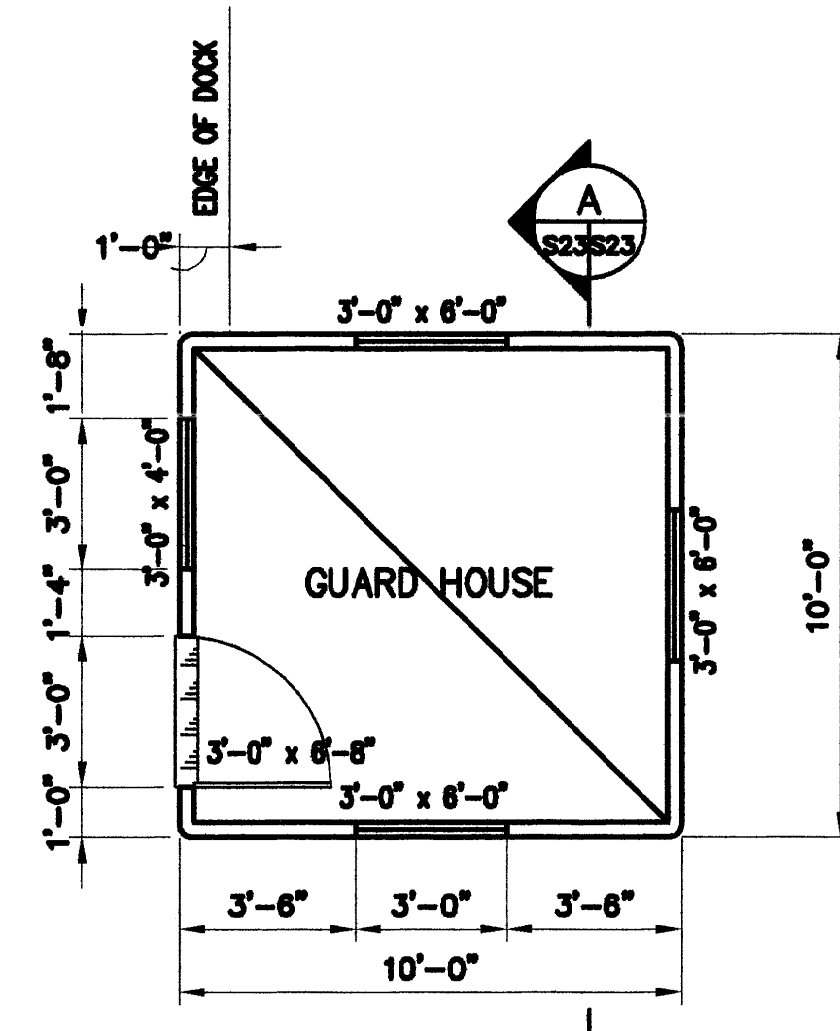
PUMP HOUSE EAST AND WEST ELEVATION  
SCALE: 1/4" = 1'-0"



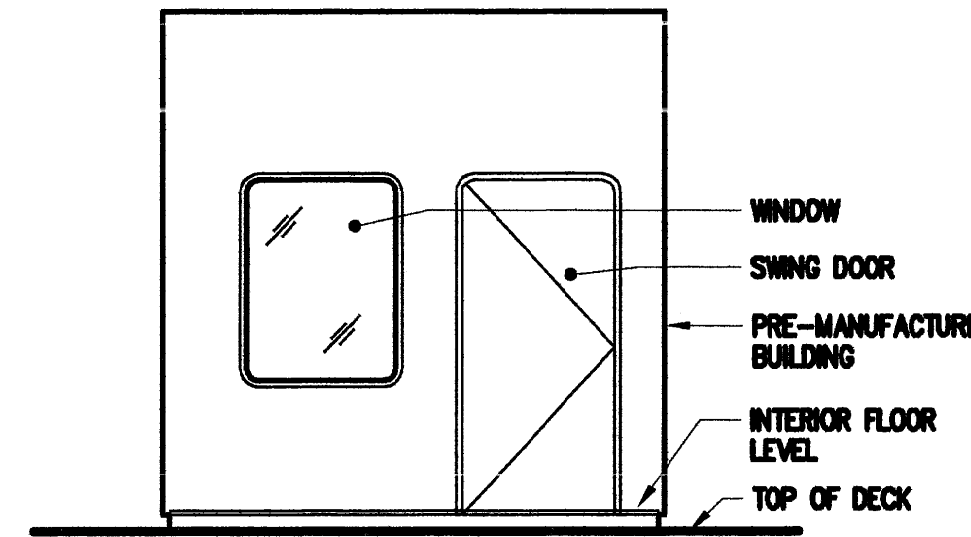
PUMP HOUSE SOUTH ELEVATION  
SCALE: 1/4" = 1'-0"



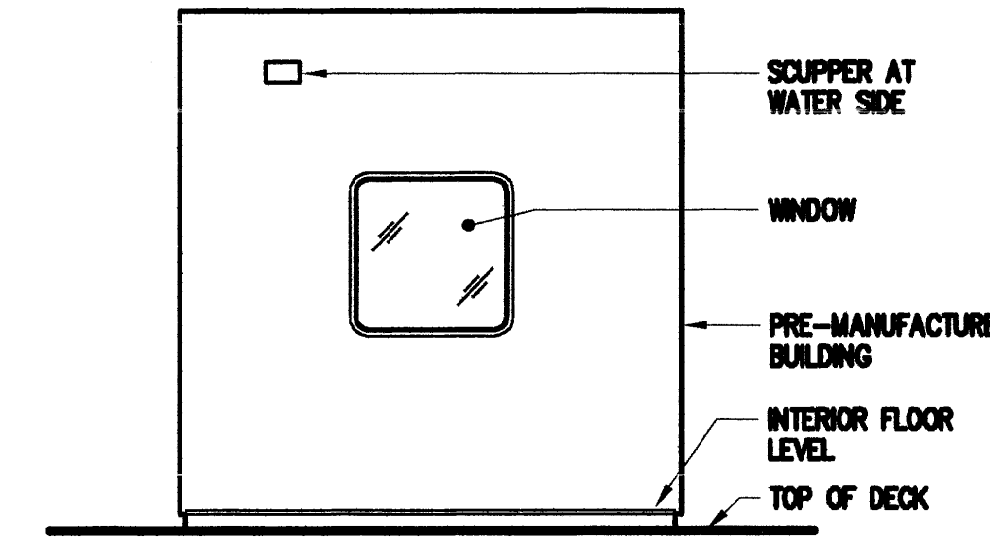
PUMP HOUSE PLAN  
SCALE: 1/4" = 1'-0"



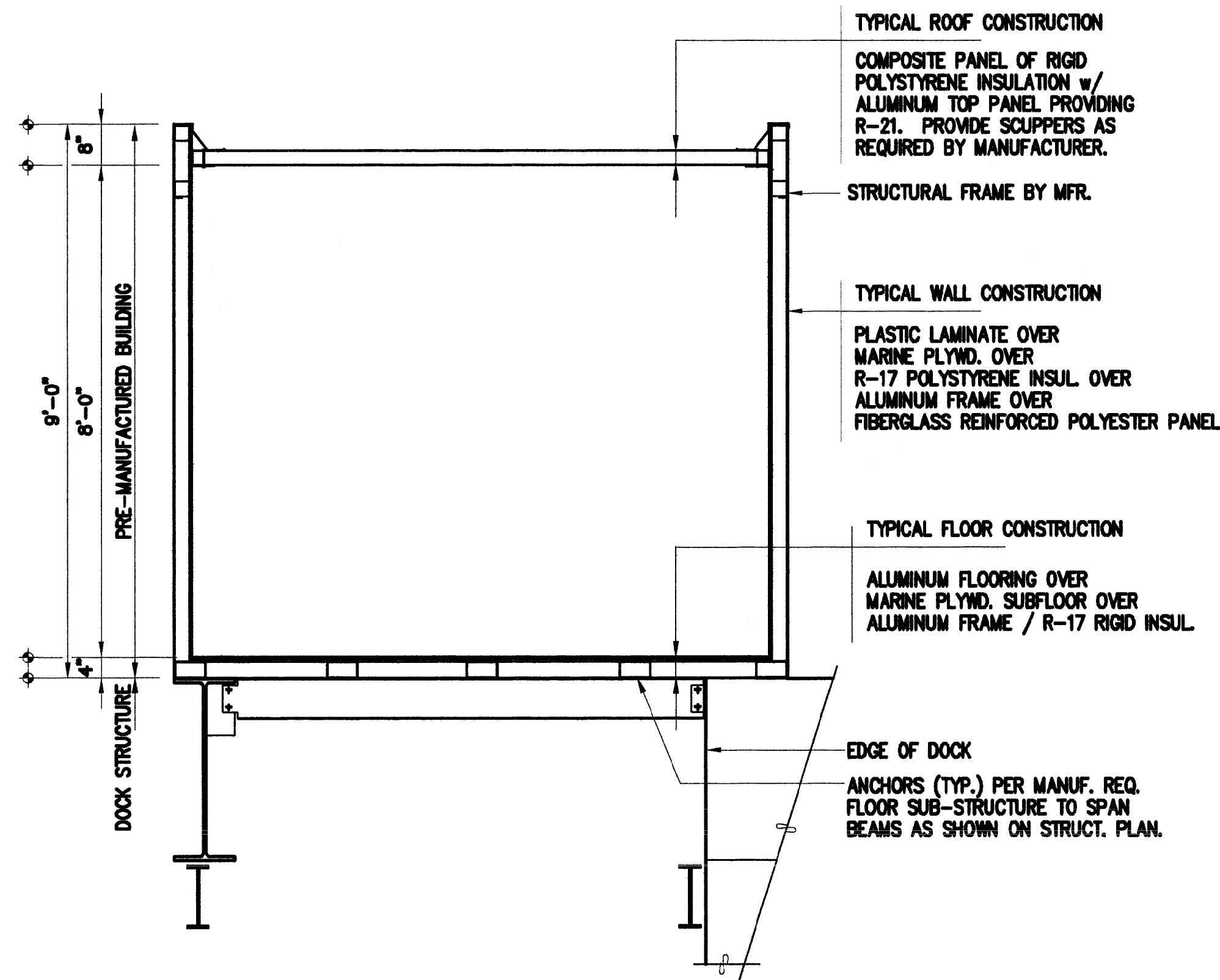
GUARD HOUSE PLAN  
SCALE: 1/4" = 1'-0"



GUARD HOUSE WEST ELEV.  
SCALE: 1/4" = 1'-0"



GUARD HOUSE NORTH, EAST, AND SOUTH ELEV.  
SCALE: 1/4" = 1'-0"

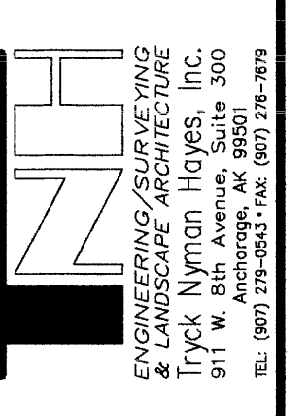


SECTION A  
SCALE: 1/2" = 1'-0"

GUARD HOUSE DELETED BY CONTRACT MODIFICATION.



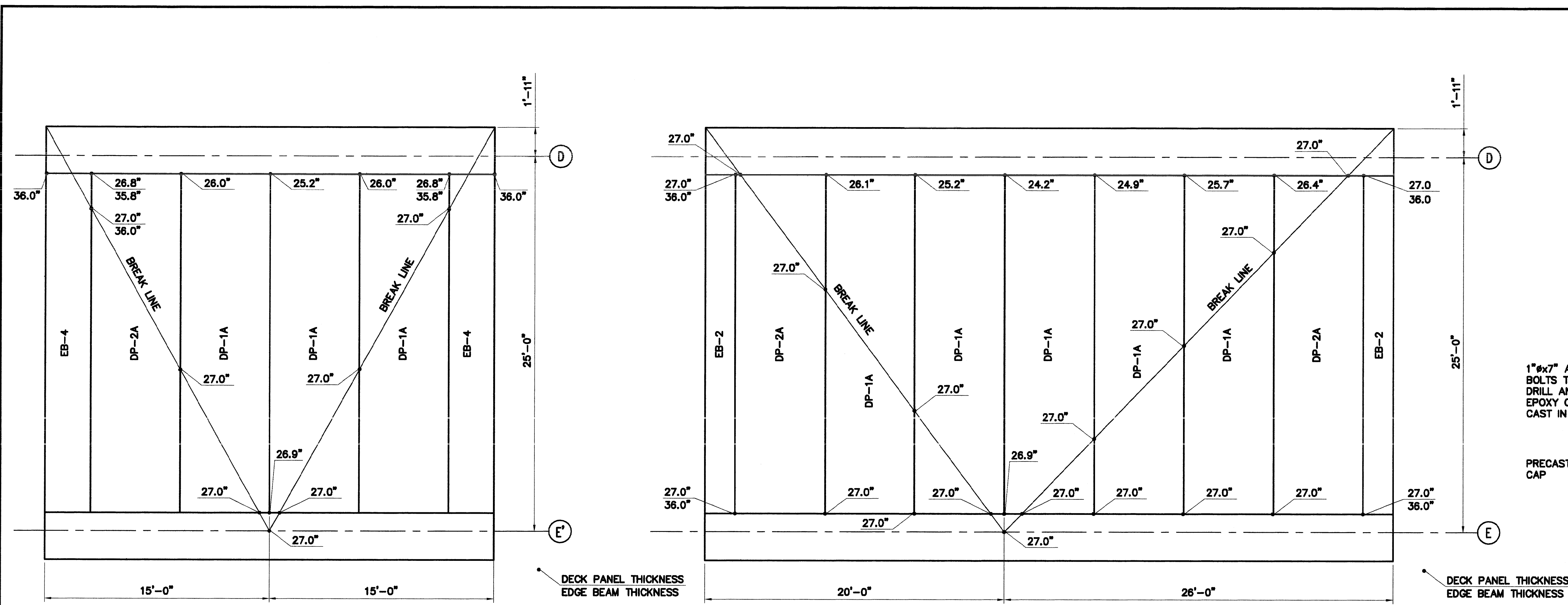
REVISION	DATE	BY	AS-BUILT
1	02/03/03	MEH	AS-BUILT



CITY OF HOMER  
PRE-MANUFACTURED BUILDINGS  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

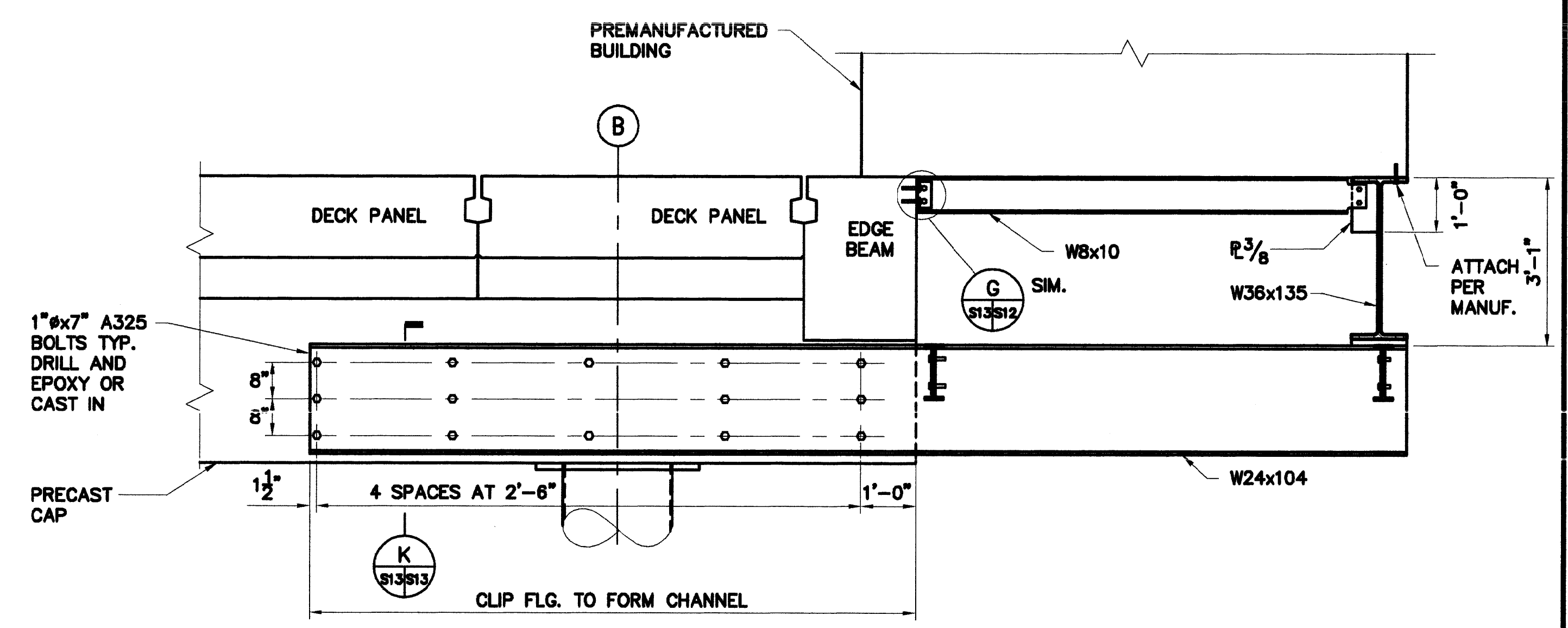
SHEET  
S23/47  
FILE NO.  
8239-S23.DWG



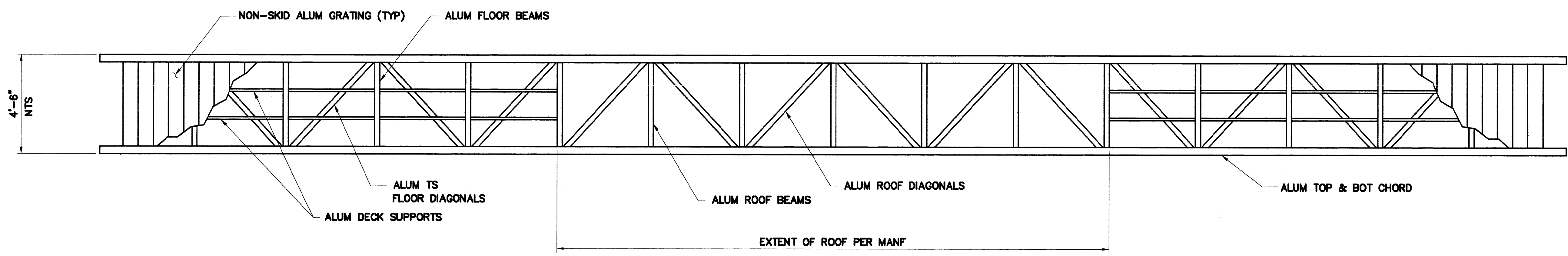


1 PLAN  
SCALE: 1/4" = 1'-0"

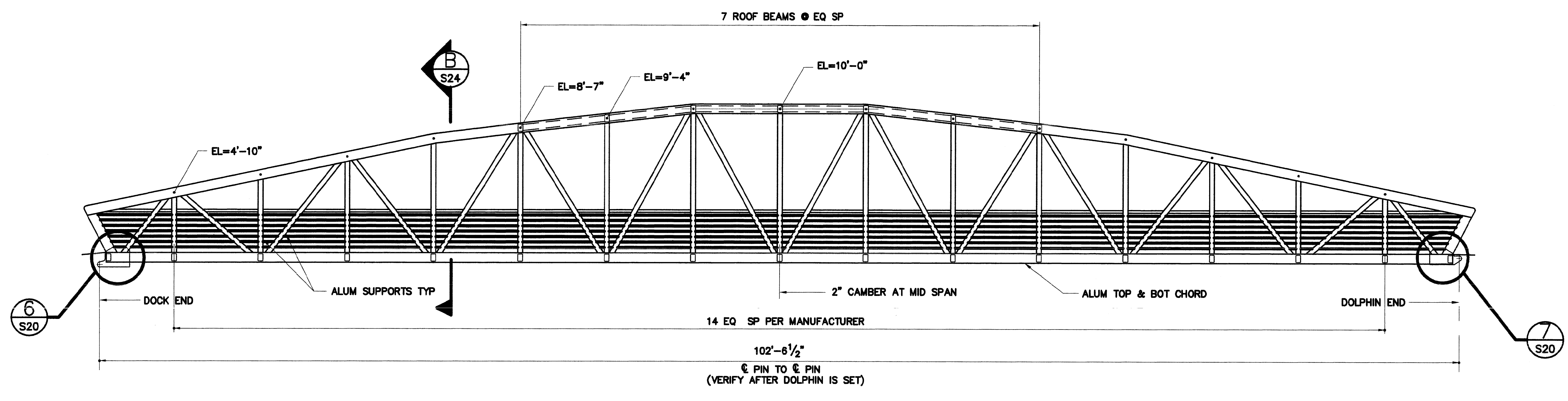
2 PLAN  
SCALE: 1/4" = 1'-0"



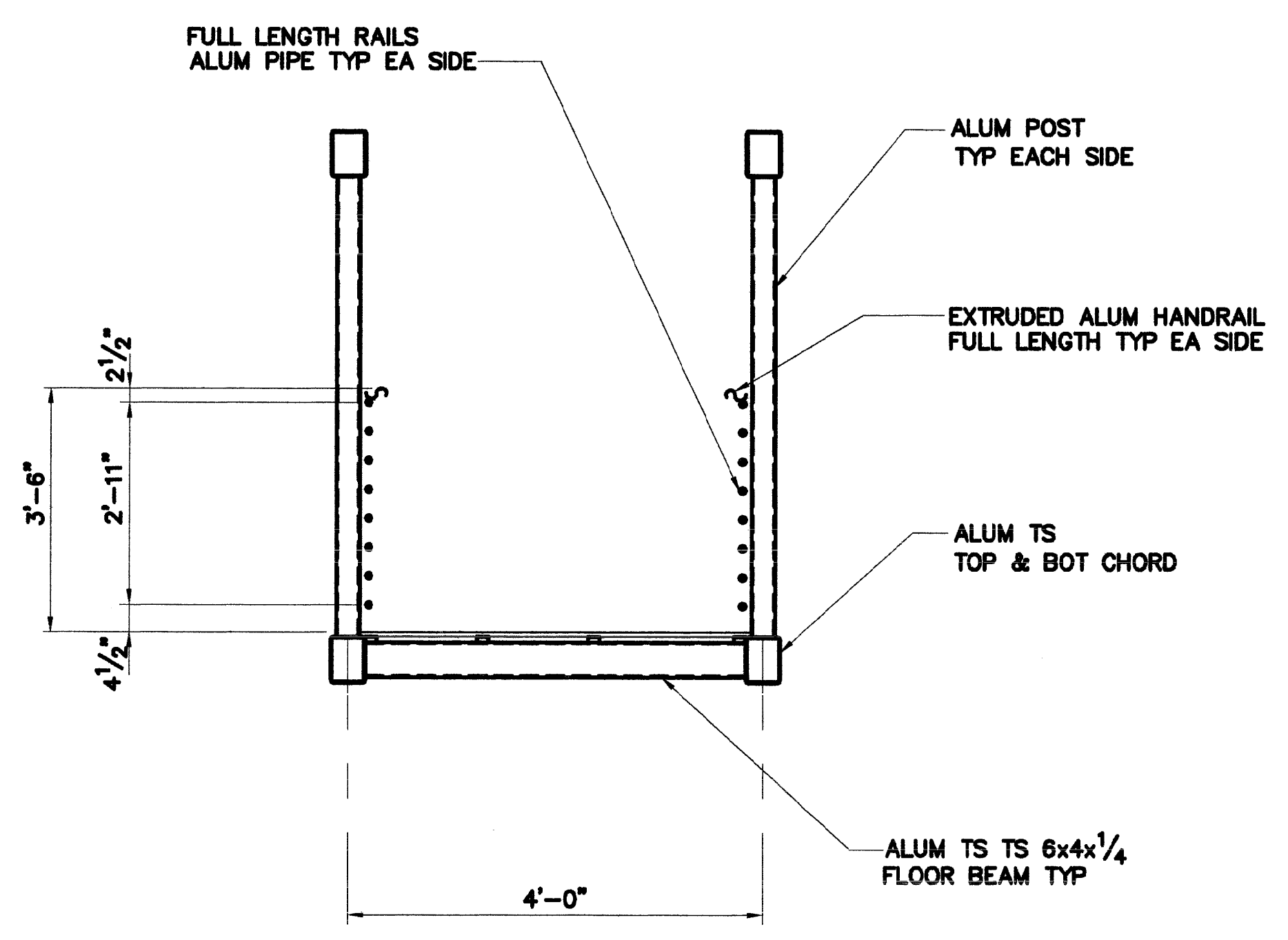
A SECTION  
SCALE: 1/2" = 1'-0"



3 GANGWAY PLAN  
SCALE: N.T.S.



4 GANGWAY ELEVATION  
SCALE: N.T.S.



B SECTION  
SCALE: N.T.S.

NOTE: DETAILS SHOWN ARE DIAGRAMATIC. ACTUAL MEMBER SIZES AND DETAILS TO BE DETERMINED BY MANUFACTURER.

REV.	DATE	BY	AS-BUILT	REVISION
1	02/03	WEH	AS-BUILT	REVISION

NO.	DATE	BY	SCALE	NOTED	APP. NO.
1	02/03	WEH	N/A	N/A	82251.0

DESIGNED	ISSUED	DATE	BY
MIS	JWF	JUNE 2003	
REVISION			

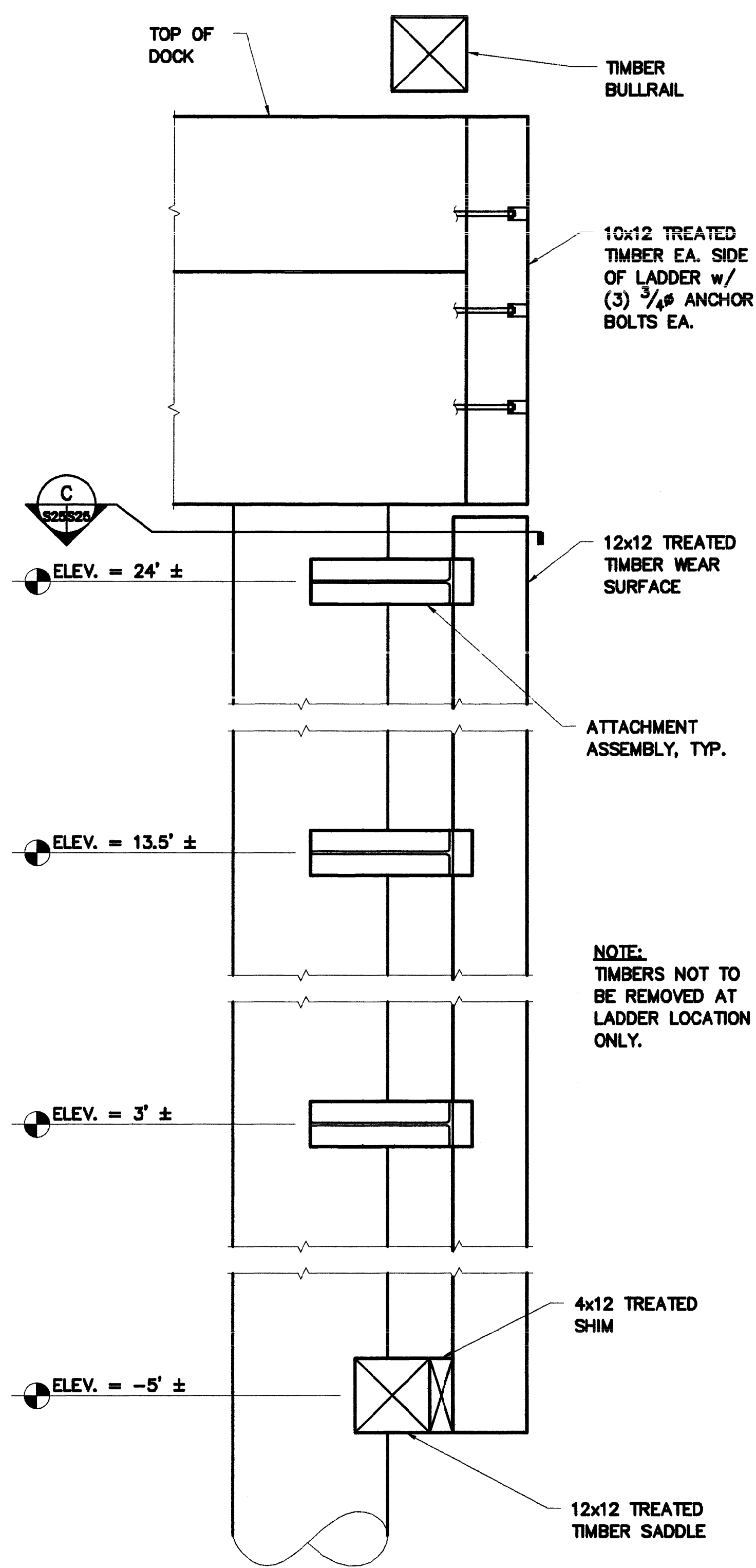
CITY OF HOMER	MISCELLANEOUS DETAILS
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK	

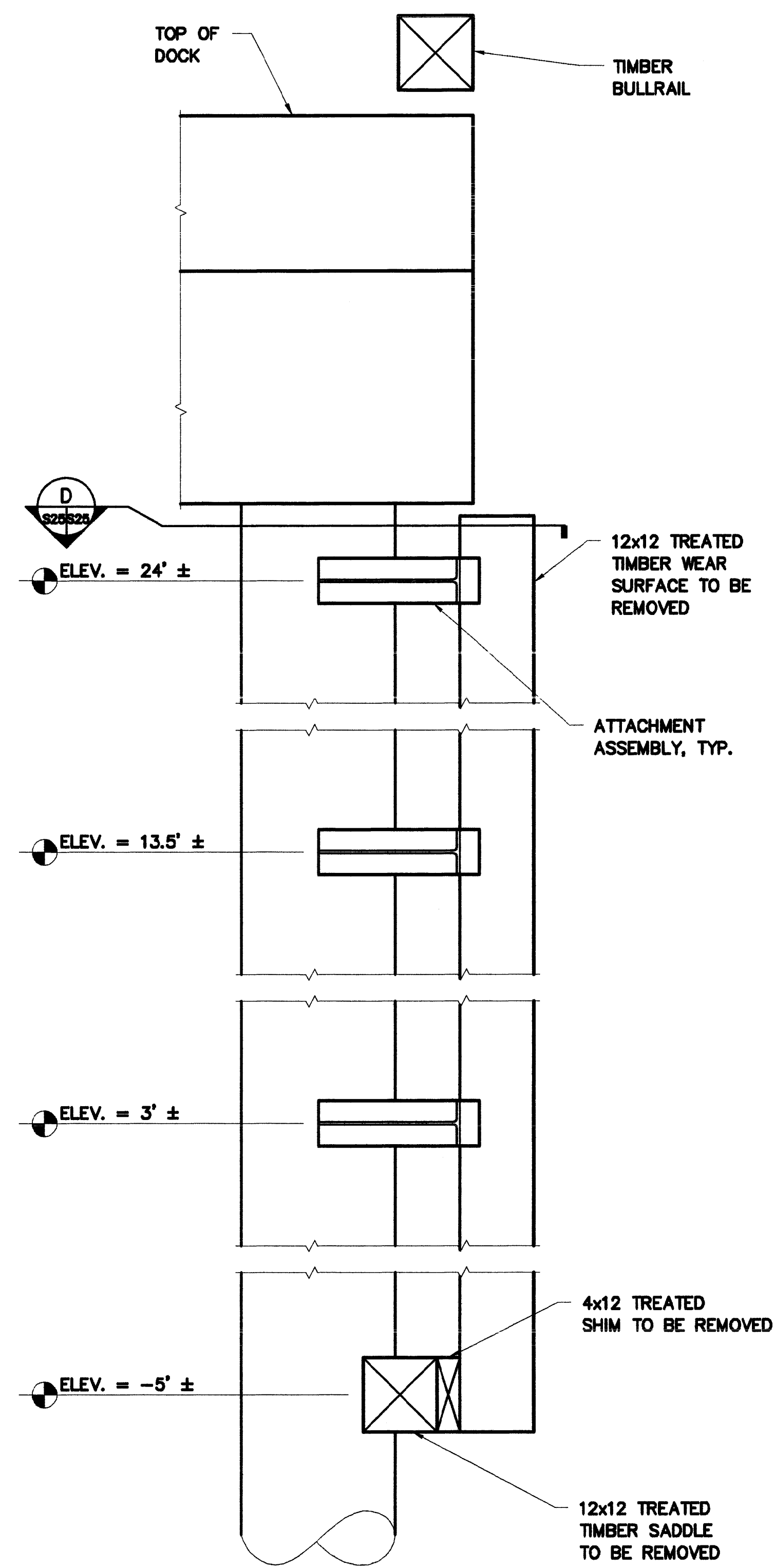
SHEET	47
S24	

PLOT DATE: 06/12/03 PLOT VIEW: P1

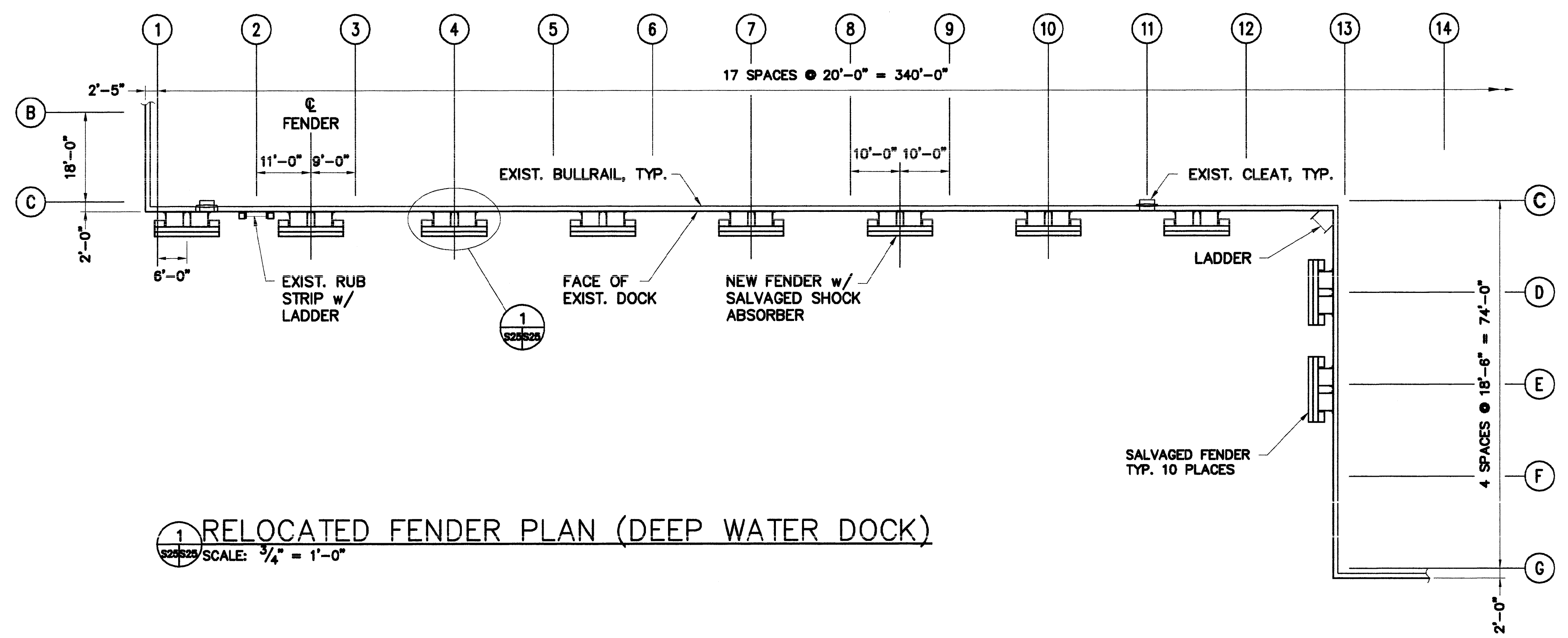




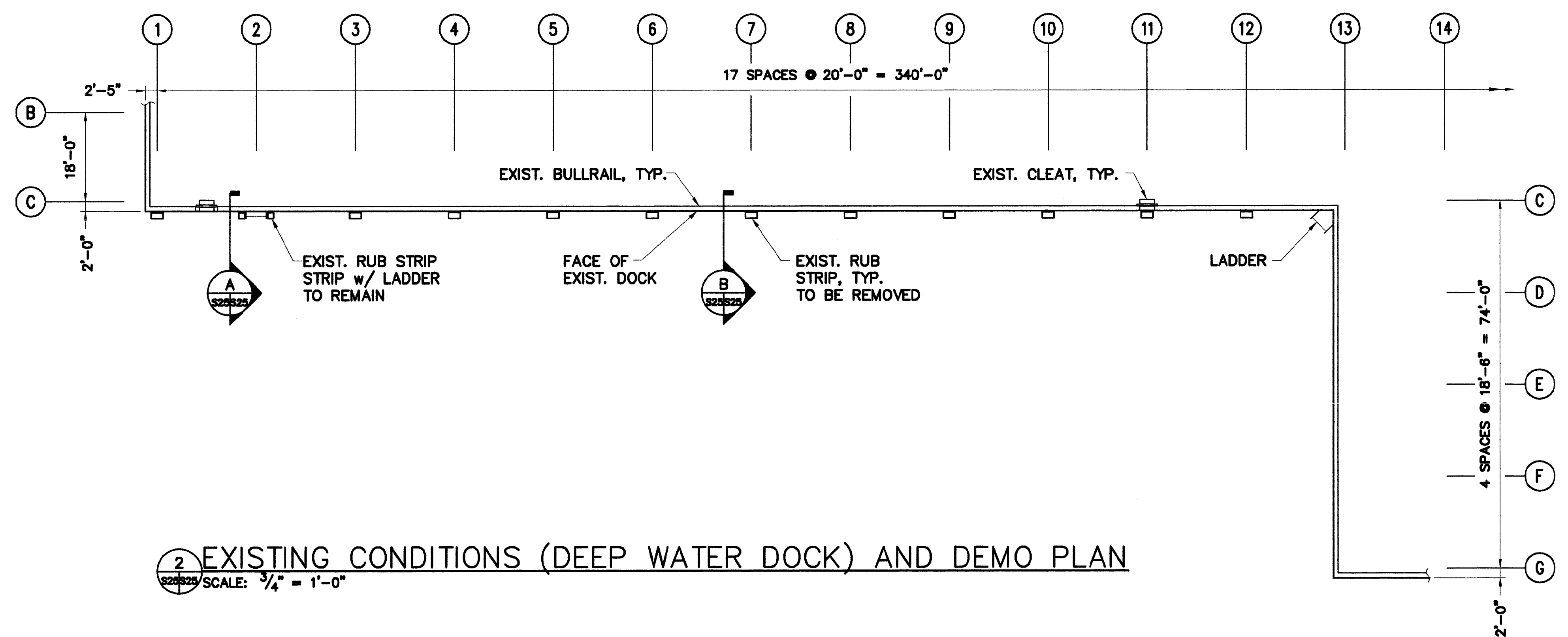
**A RUB STRIP AT LADDER ELEVATION**  
SCALE: 3/4" = 1'-0"



**B TYPICAL RUB STRIP ELEVATION**  
SCALE: 3/4" = 1'-0"

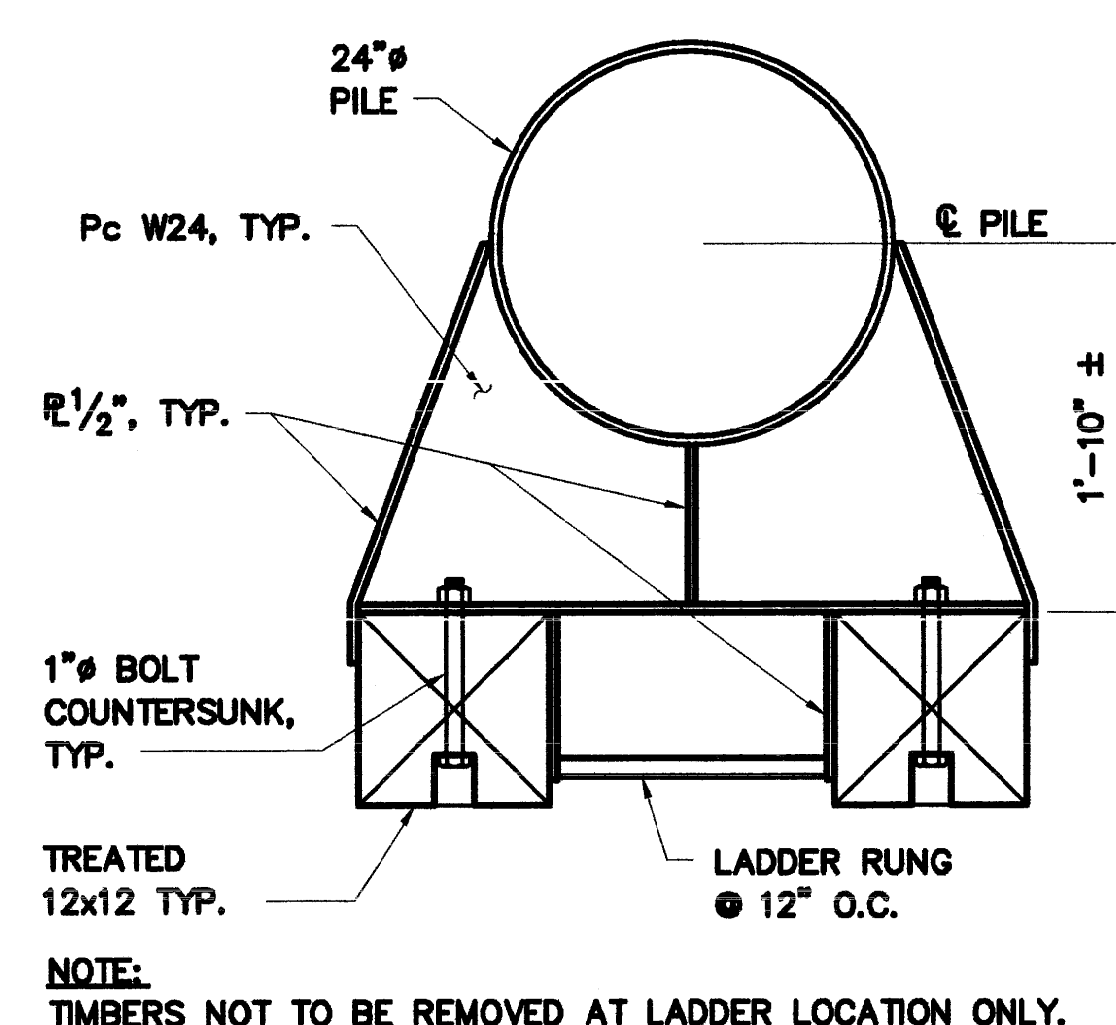


**1 RELOCATED FENDER PLAN (DEEP WATER DOCK)**  
SCALE: 3/4" = 1'-0"

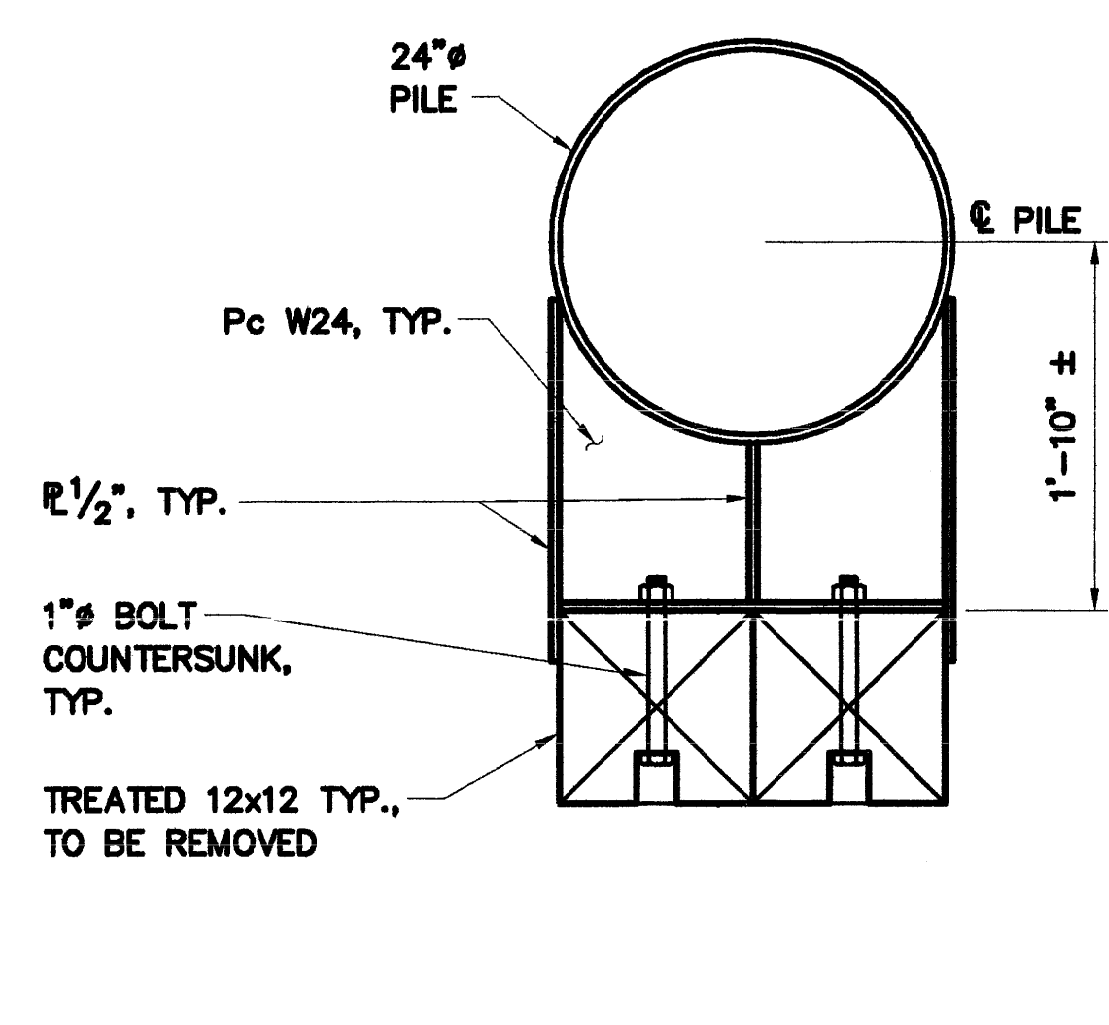


**2 EXISTING CONDITIONS (DEEP WATER DOCK) AND DEMO PLAN**  
SCALE: 3/4" = 1'-0"

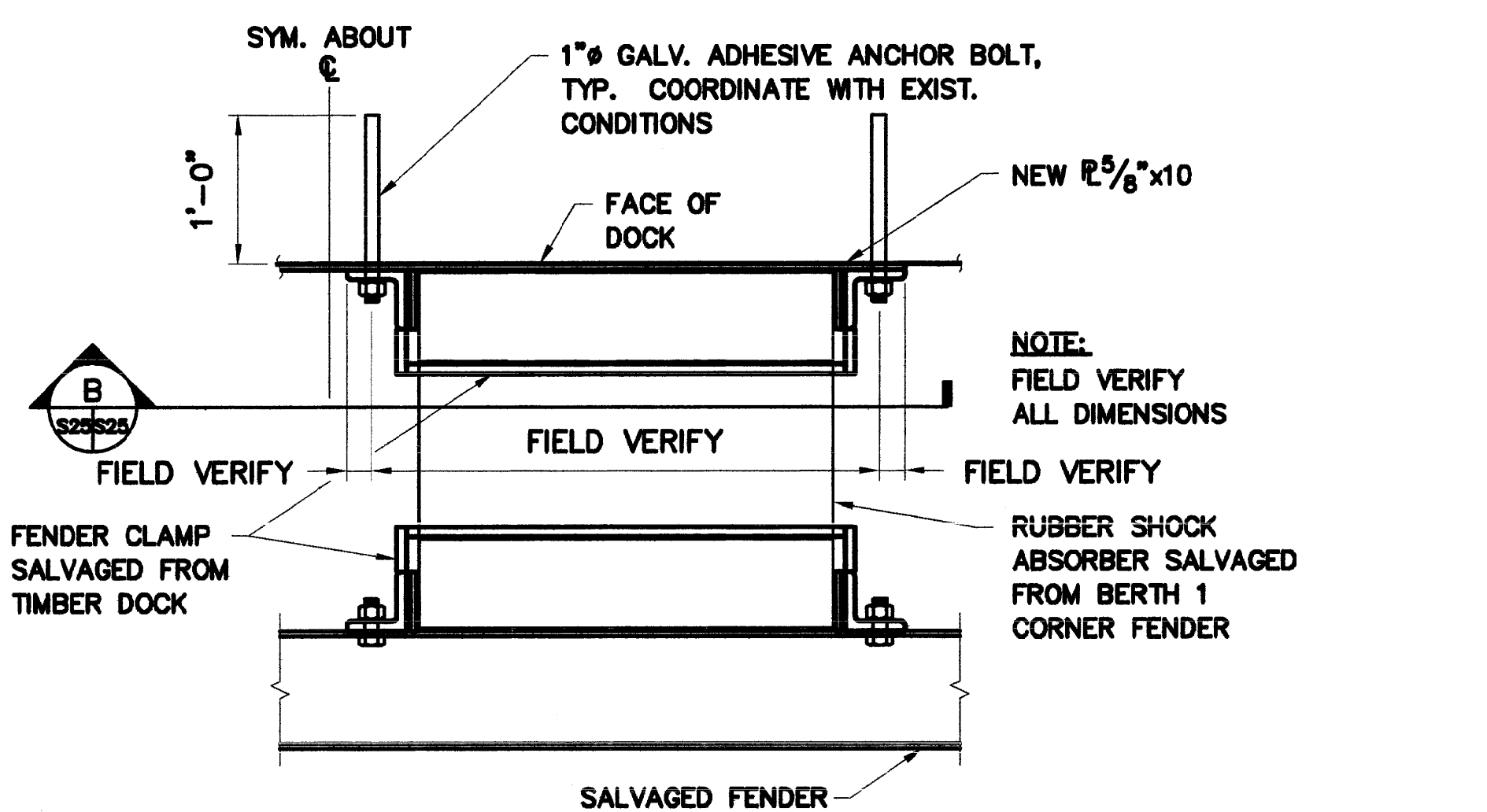
THIS DRAWING REVISED & APPROVED  
CARREY MEYER 3/20/02



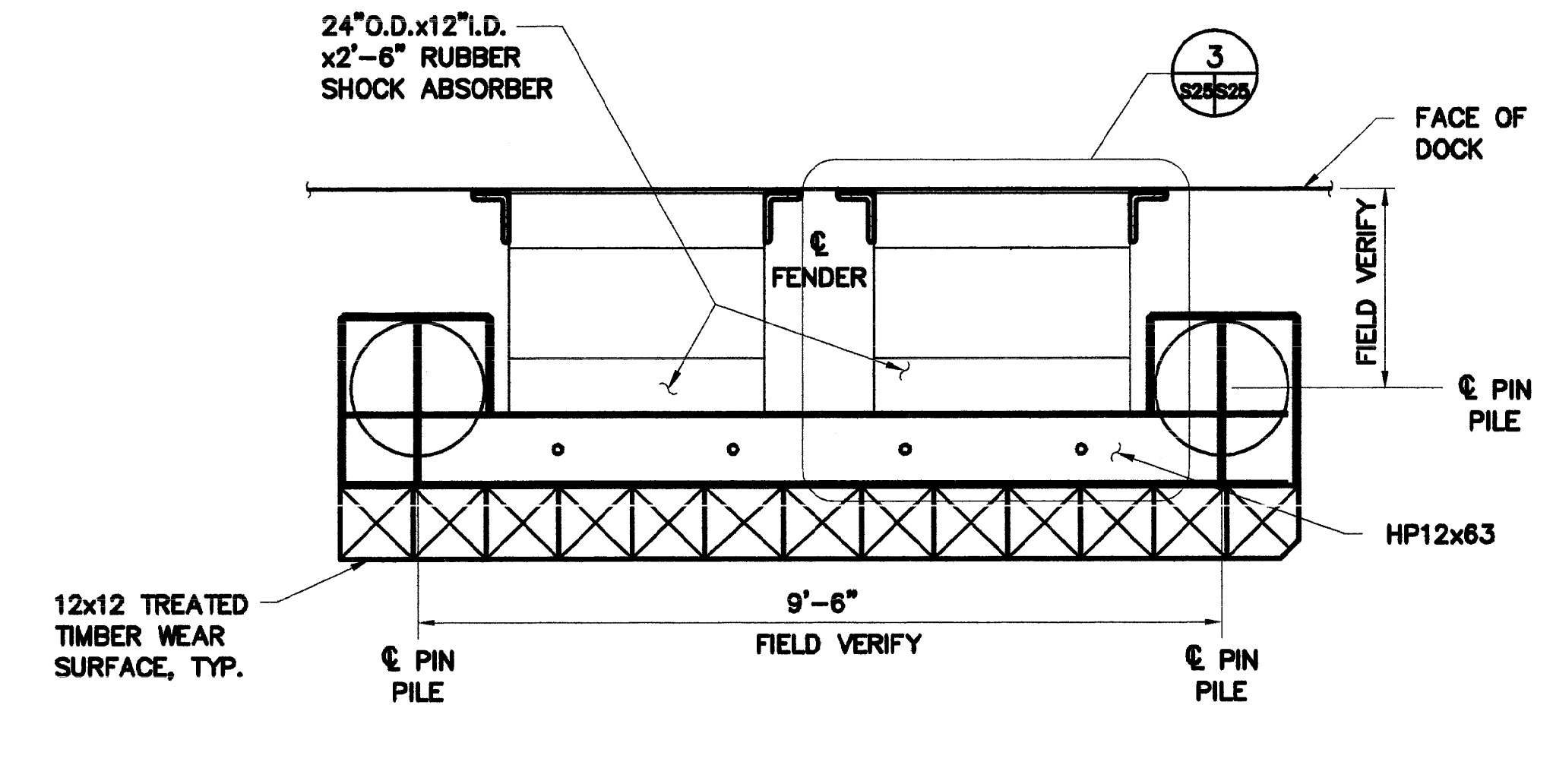
**C SECTION**  
SCALE: 1" = 1'-0"



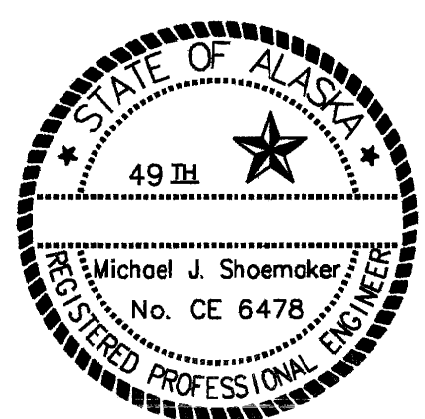
**D SECTION**  
SCALE: 1" = 1'-0"



**E SECTION**  
SCALE: N.T.S.



**F SECTION**  
SCALE: N.T.S.

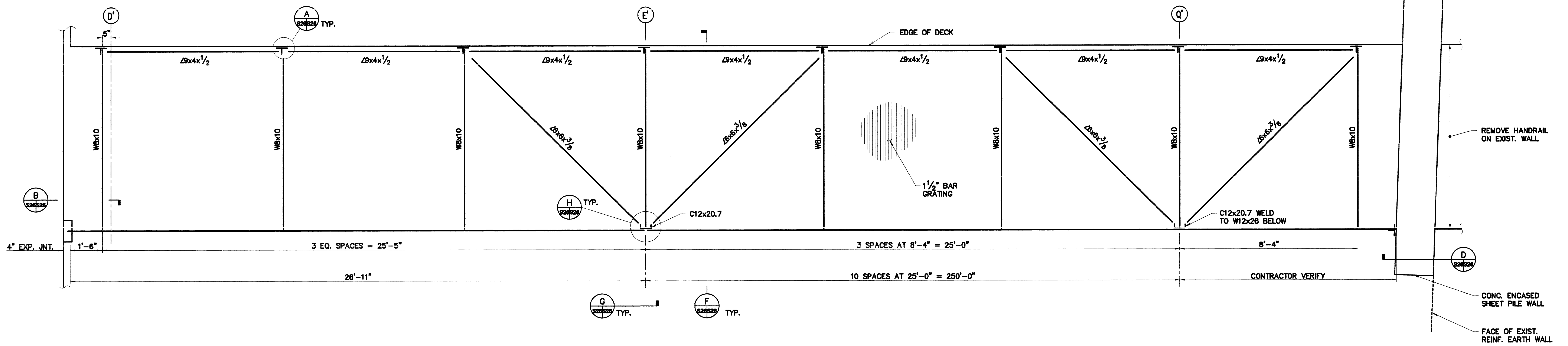


DESIGNED	MJS	DATE	JUNE 2003
DRAWN	JWF	DATE	JUNE 2003
CHECKED	MJS	DATE	JUNE 2003
IN-CHARGE	MEH	DATE	JUNE 2003
SCALE	AS-BUILT	NOTED	
REV.	1	DATE	02/03
BY	MEH	AS-BUILT	
REVISION			

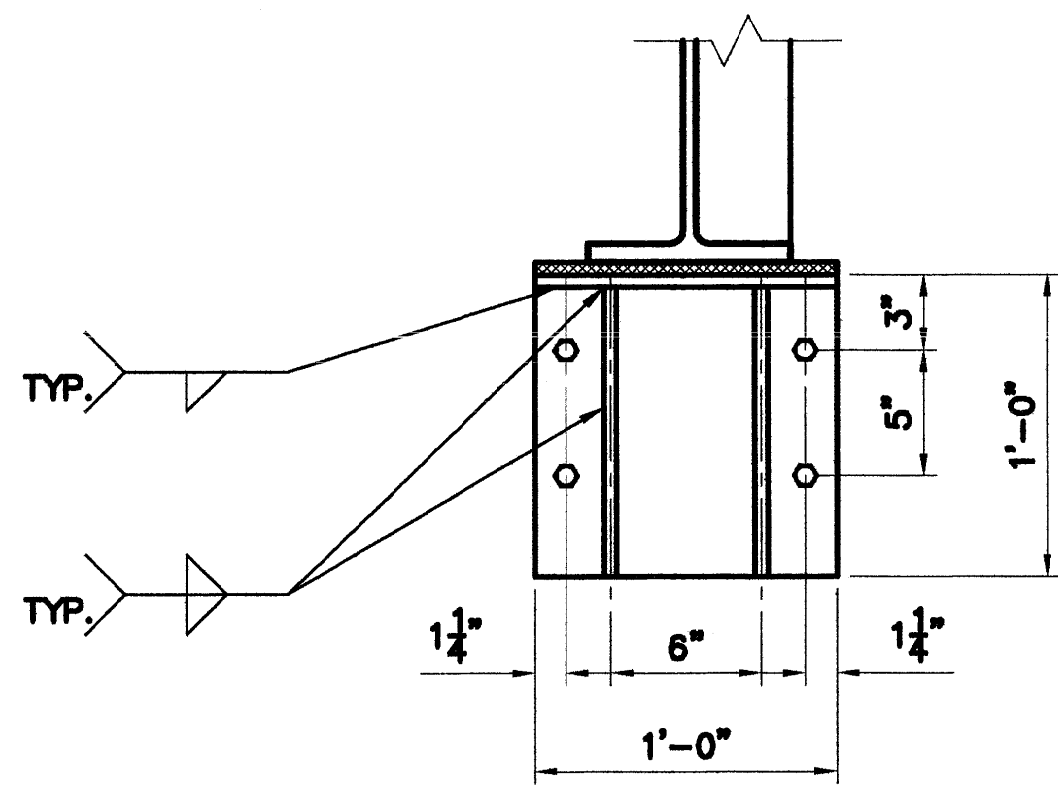
CITY OF HOMER  
RELOCATED FENDERS  
ADD ALT. 1  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
825/47  
FILE NO.  
8239\_S25.DWG

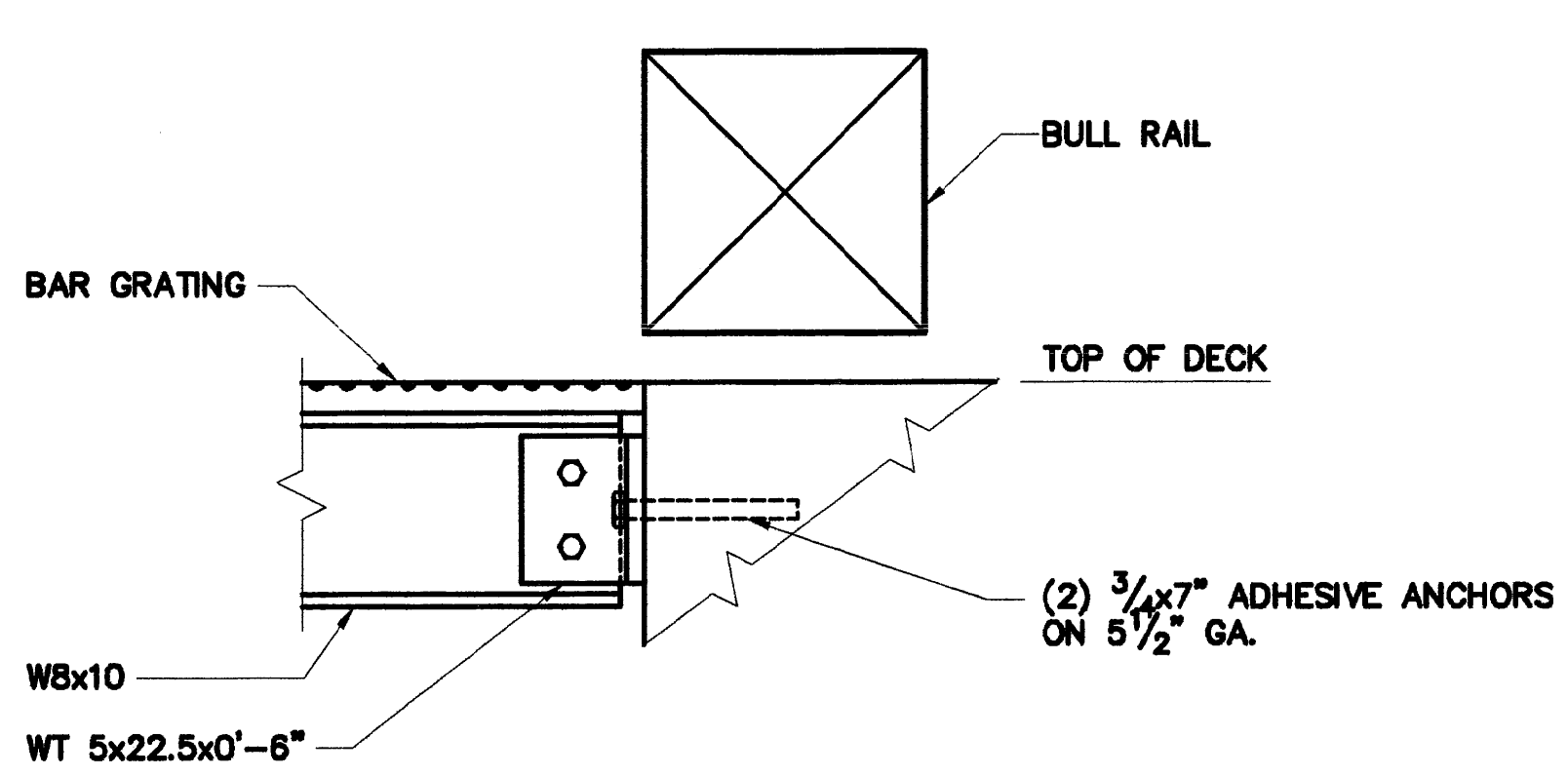




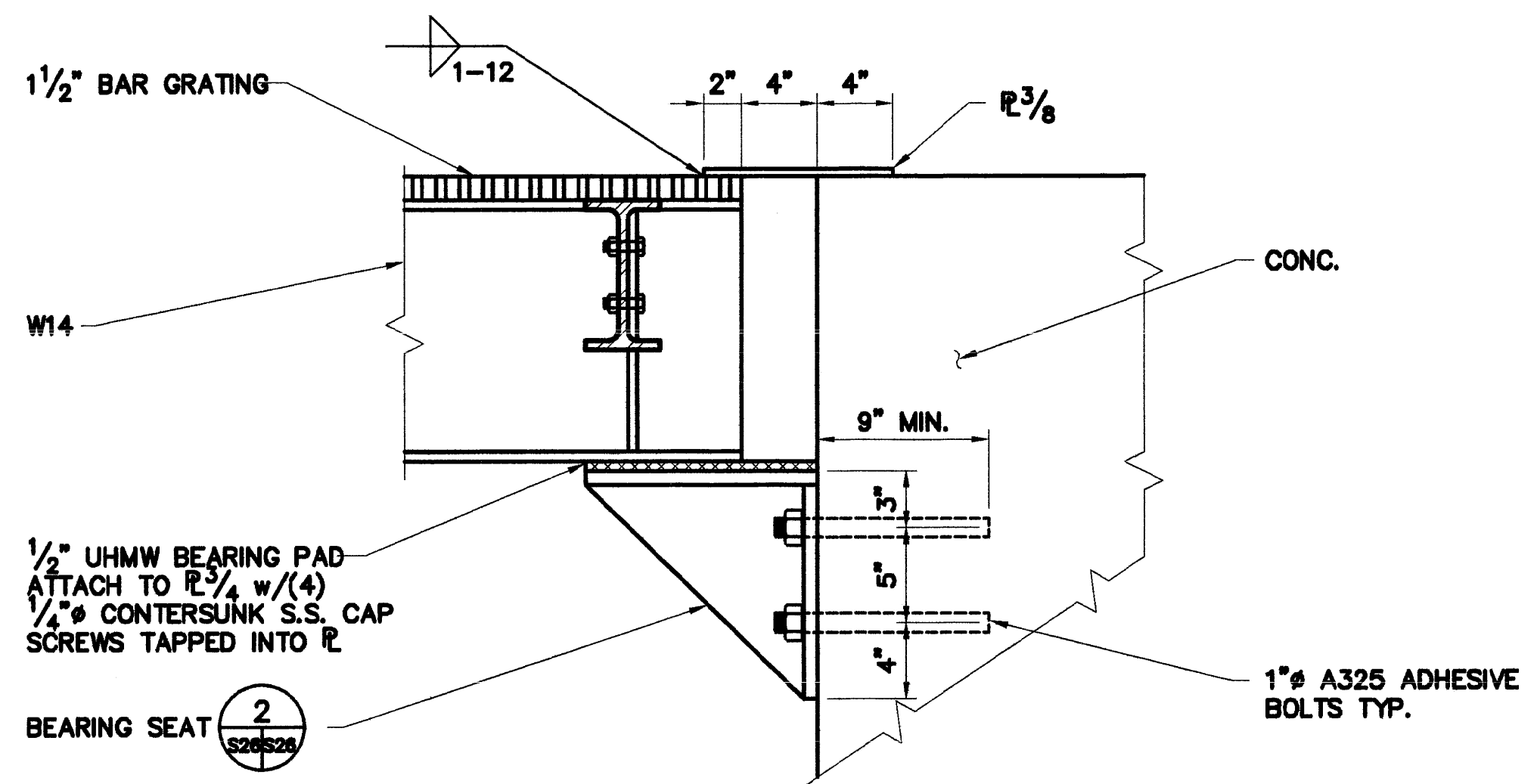
1 PLAN  
SCALE: 1/4" = 1'-0"



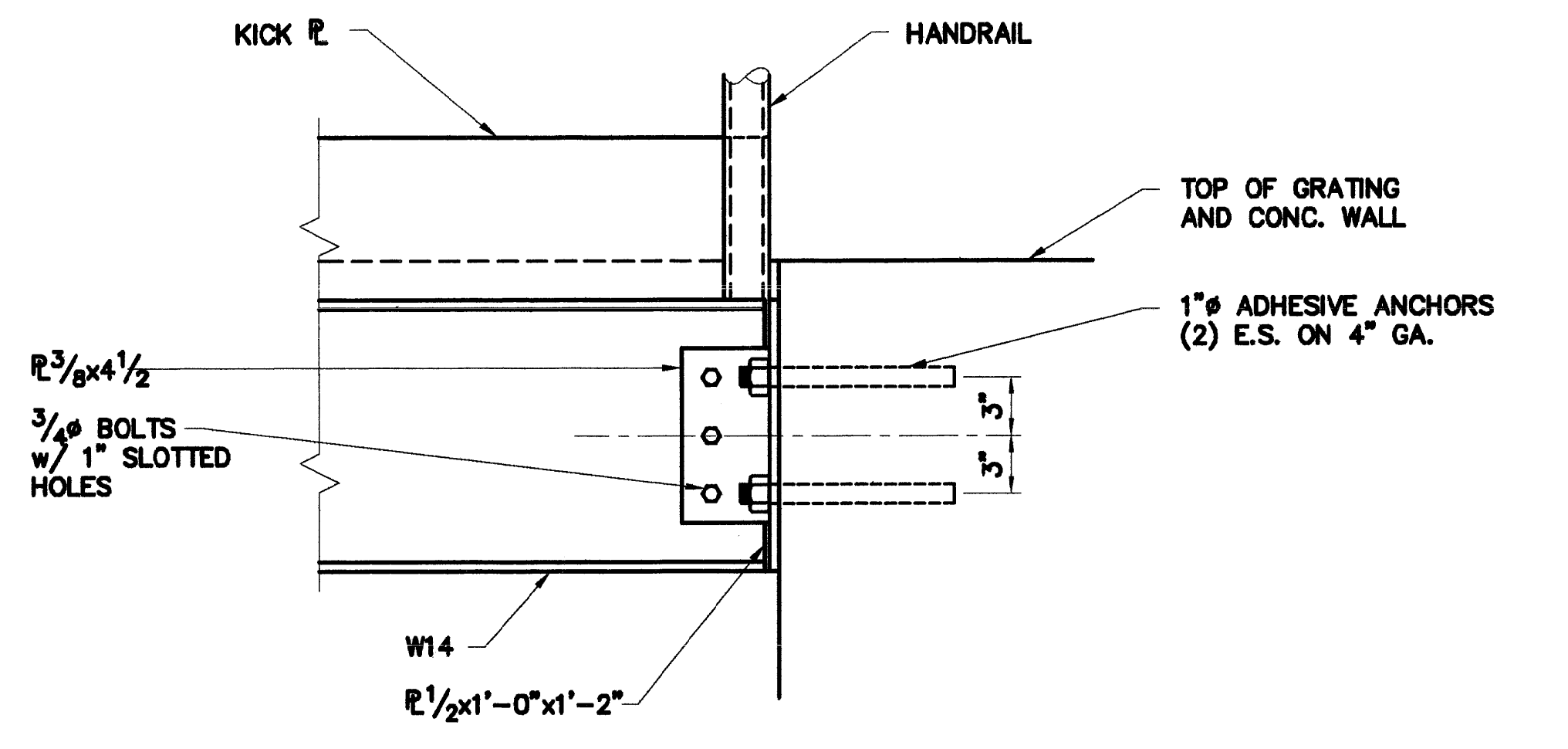
2 SECTION  
SCALE: 1/2" = 1'-0"



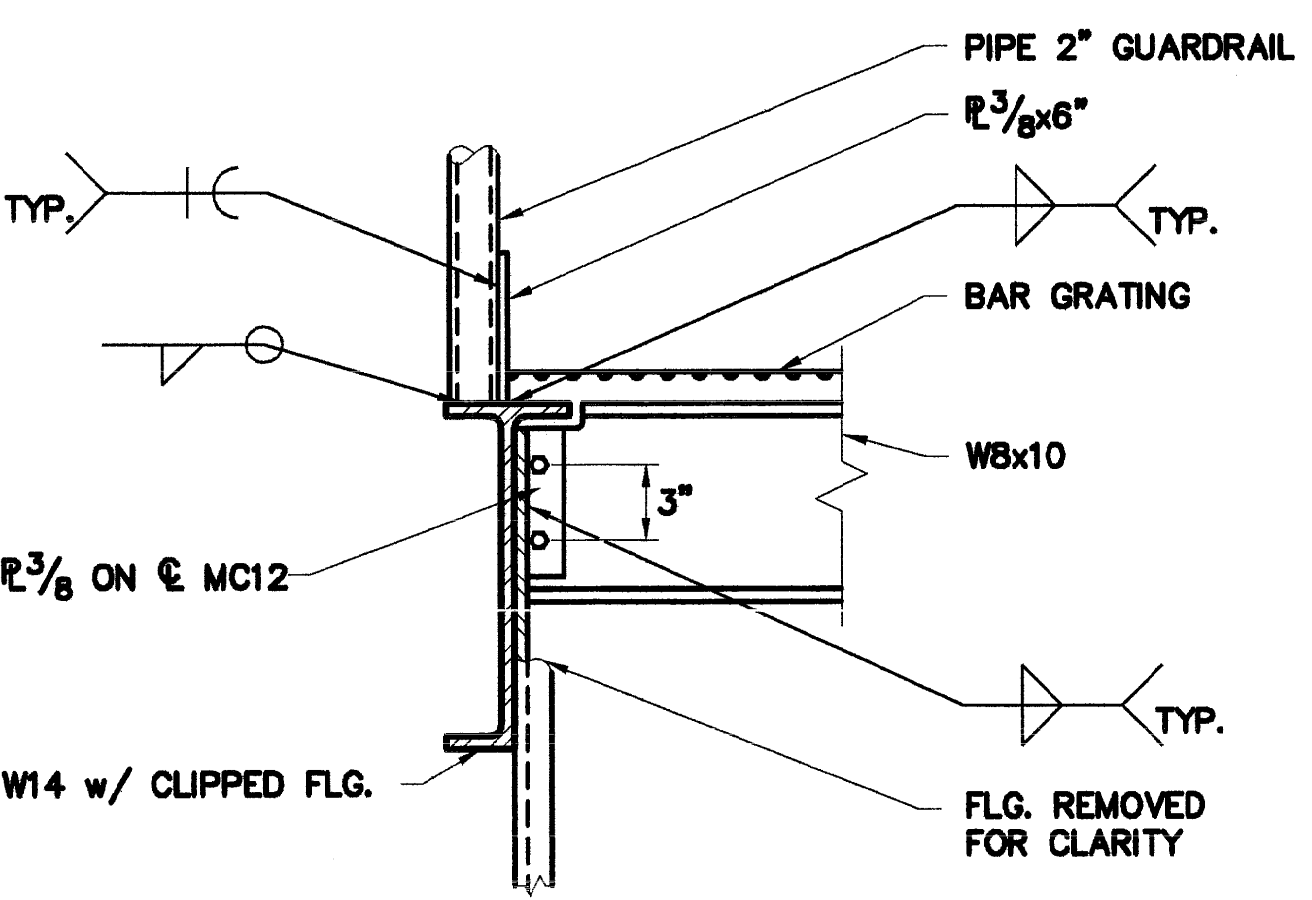
A SECTION  
SCALE: 1/2" = 1'-0"



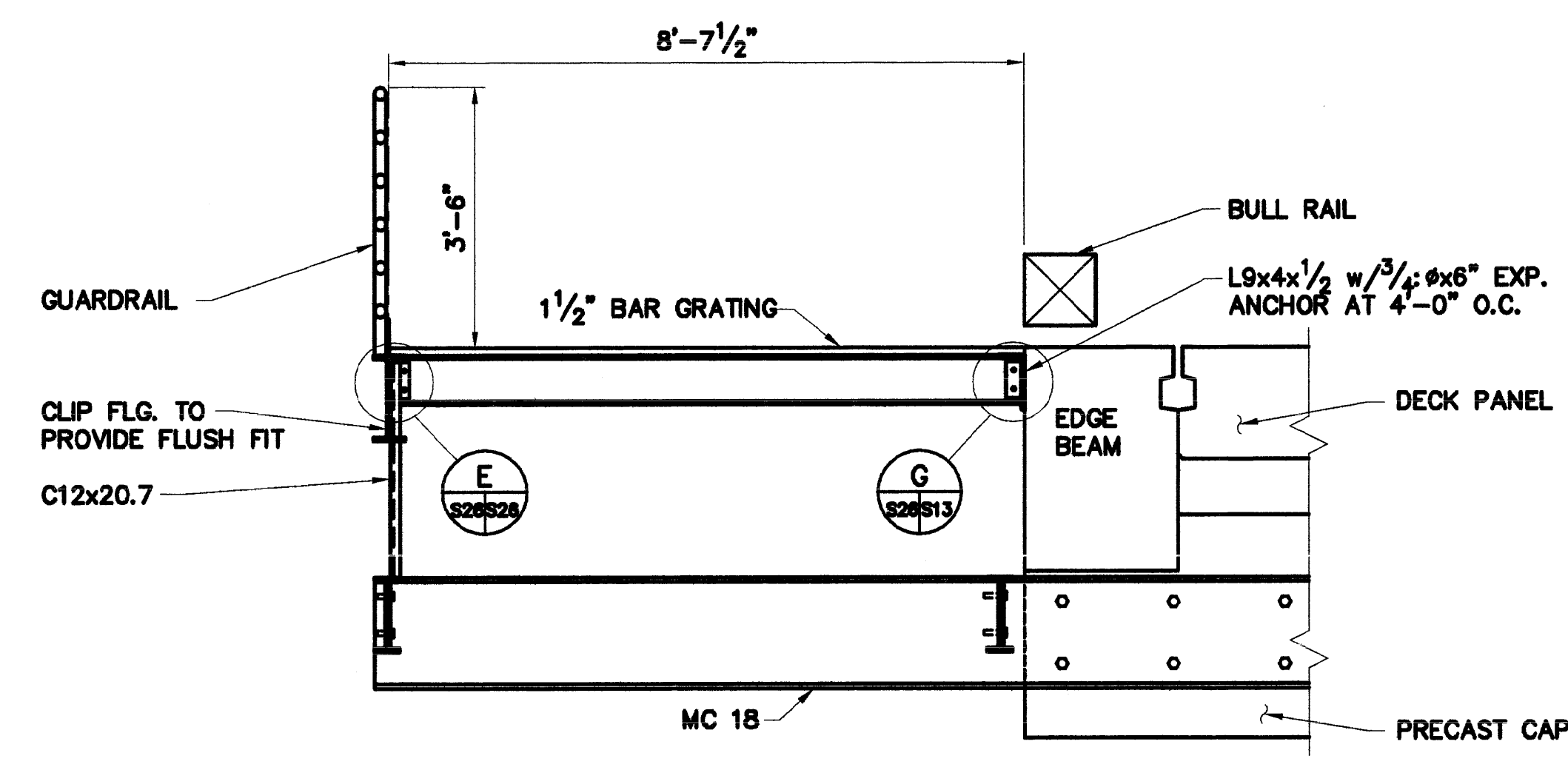
B SECTION  
SCALE: 1/2" = 1'-0"



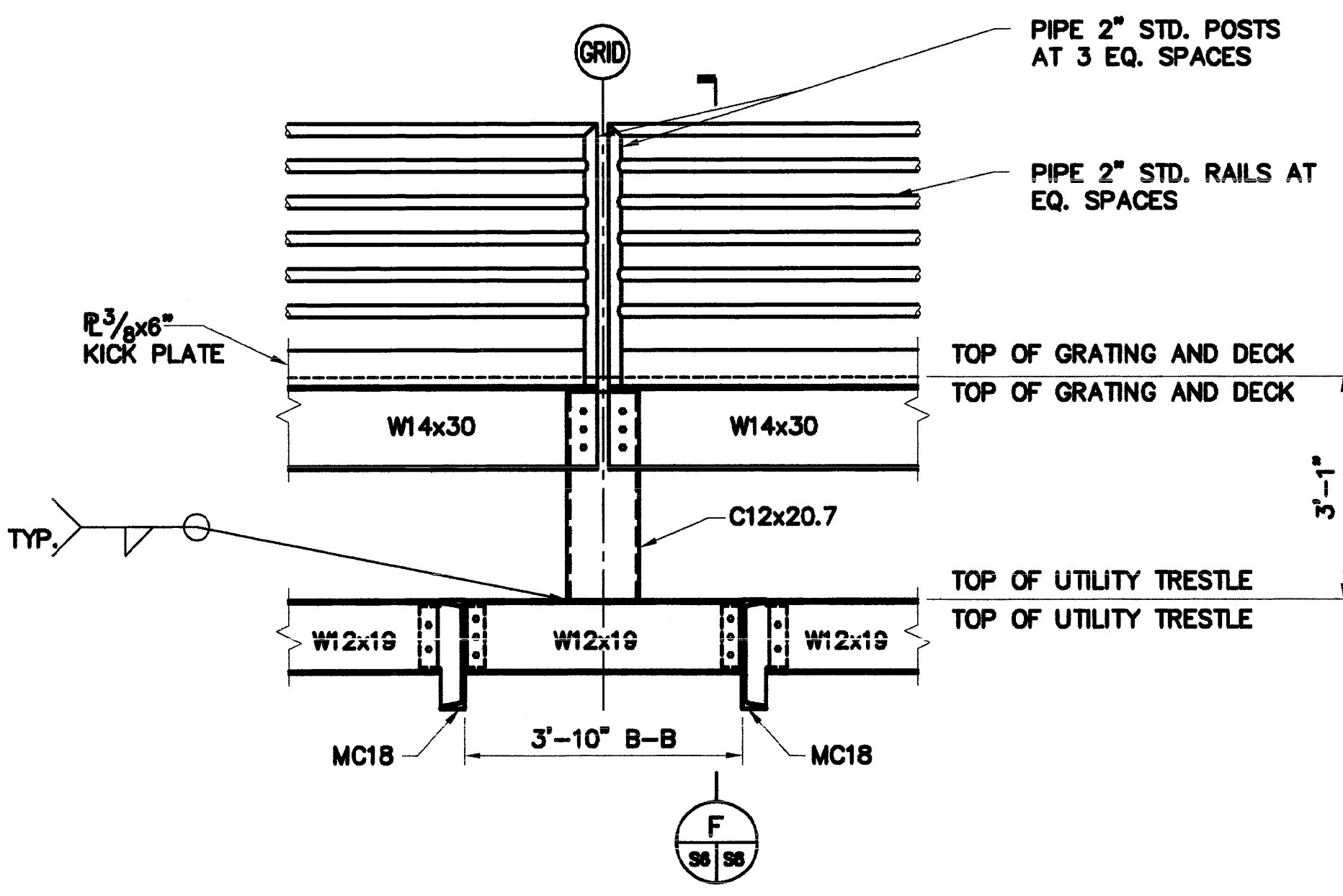
D SECTION  
SCALE: 1/2" = 1'-0"



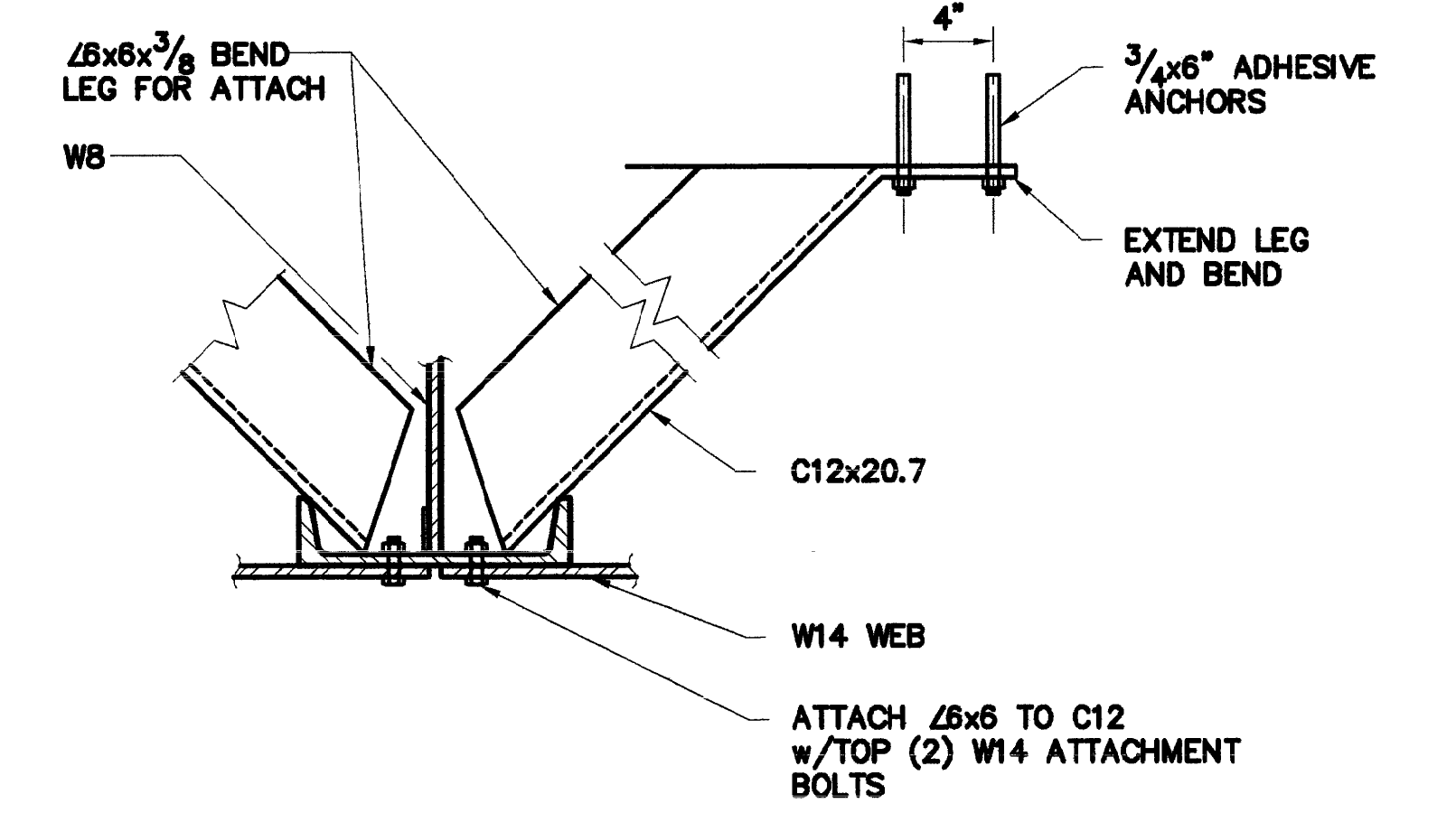
E SECTION  
SCALE: 1/2" = 1'-0"



F SECTION  
SCALE: 1/2" = 1'-0"

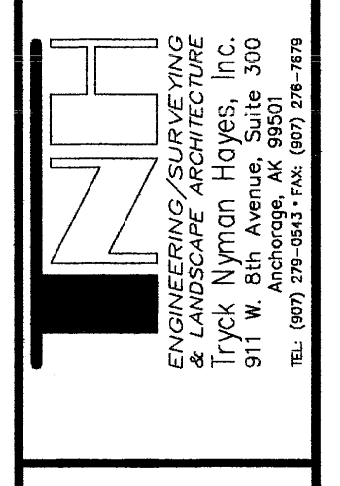


G SECTION  
SCALE: 1/2" = 1'-0"



H SECTION  
SCALE: 1/2" = 1'-0"

REVISION	DATE	BY	AS-BUILT
1	02/03	JWH	AS-BUILT

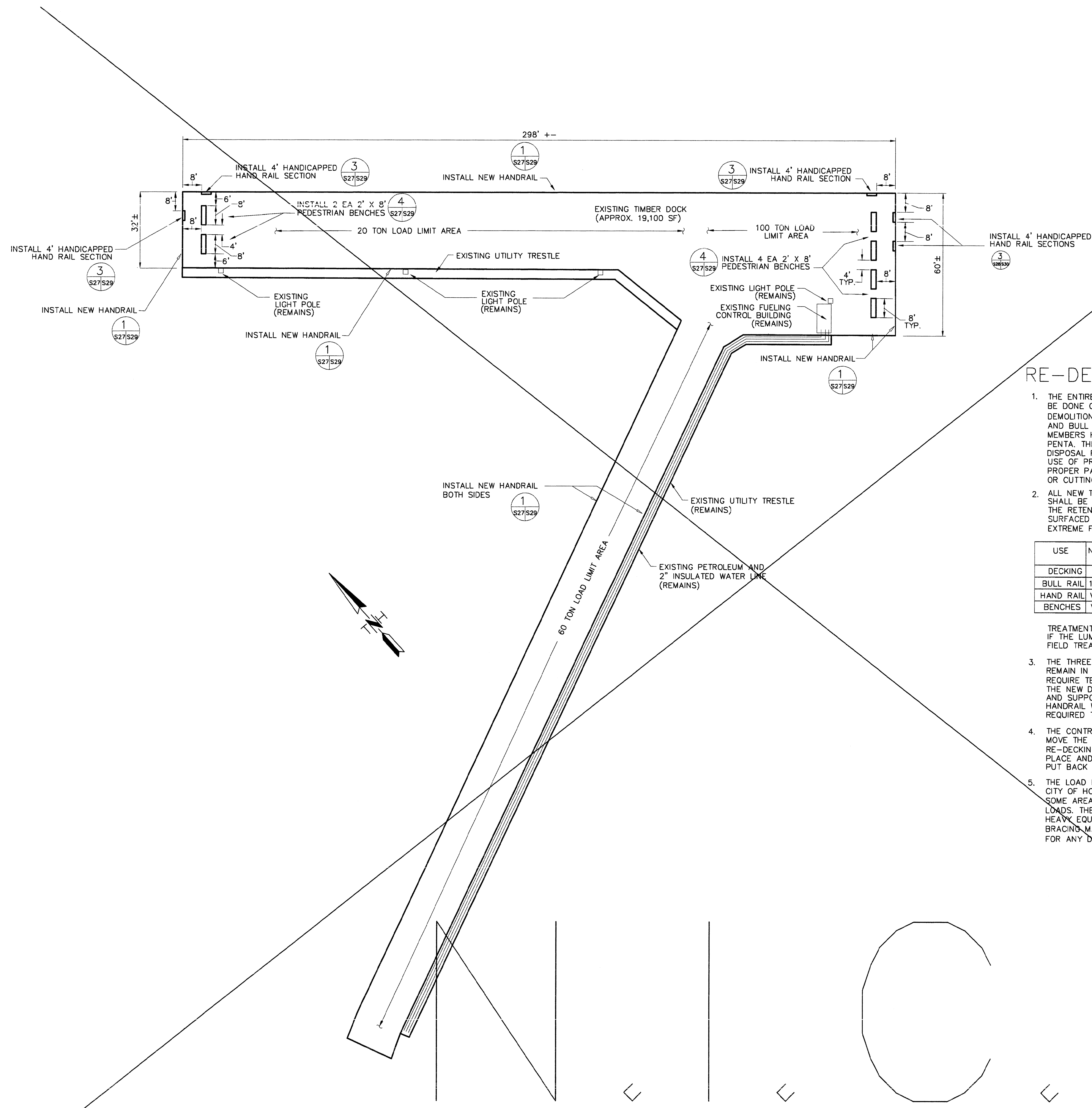


CITY OF HOMER  
PEDESTRIAN WALKWAYS  
ADD AL.T. 2  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
S26/47  
FILE NO.  
8239\_S26.DWG

02122





**RE-DECKING NOTES**

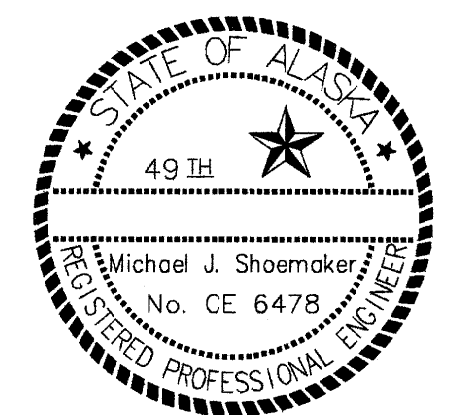
1. THE ENTIRE EXISTING TIMBER DOCK WILL BE RE-DECKED. THIS WORK WILL BE DONE ON THE REMAINING SECTION OF DOCK. AFTER THE INITIAL DEMOLITION WORK HAS BEEN COMPLETED, THE EXISTING TIMBER DECKING AND BULL RAILS WILL BE REMOVED AND OR DEMOLISHED. THE TIMBER MEMBERS HAVE BEEN TREATED WITH CREOSOTE AND OR CCA AND OR PENTA. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE SAFETY AND DISPOSAL REGULATIONS WHEN HANDLING THIS MATERIAL. THIS INCLUDES THE USE OF PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT AND THE USE OF PROPER PARTICLE MASKS OR OTHER RESPIRATORY PROTECTION WHEN SAWING OR CUTTING. NO ON SITE BURNING OF THIS MATERIAL WILL BE ALLOWED.
2. ALL NEW TIMBER SHALL BE OF THE TYPE AND GRADE SHOWN BELOW. IT SHALL BE TREATED WITH WATERBORNE PRESERVATIVE (CCA OR ACZA) TO THE RETENTION VALUES SHOWN BELOW. THE NEW TIMBER SHALL BE SURFACED ON 4 SIDES (S4S). THE BENDING STRESS VALUE IS THE EXTREME FIBER IN BENDING.

USE	NOMINAL SIZE	TYPE	CLASS	BENDING STRENGTH	TREATMENT TYPE	TREATMENT RETENTION
DECKING	4X12	DOUG FIR	NO 1	1500	ACZA	0.60
BULL RAIL	12X12	HEM FIR	NO 2	525	CCA	0.60
HAND RAIL	VARIES	HEM FIR	NO 1	1400	CCA	0.60
BENCHES	VARIES	HEM FIR	NO 1	1400	CCA	0.60

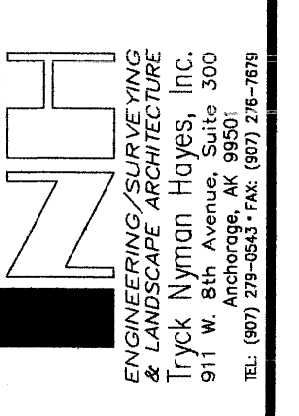
TREATMENT SHALL BE IN ACCORDANCE WITH AWPA STANDARDS C2 AND C18. IF THE LUMBER IS CUT AFTER TREATMENT, THE EXPOSED ENDS SHALL BE FIELD TREATED IN A MANNER COMPLYING WITH AWPA M4.

3. THE THREE LIGHT POLES ON THE WEST SIDE OF THE TIMBER DOCK WILL REMAIN IN SERVICE. THESE POLES AND THE ASSOCIATED CONDUITS MAY REQUIRE TEMPORARY BRACING AND SUPPORT DURING INSTALLATION OF THE NEW DECKING AND BULL RAILS. THESE ITEMS WILL BE REATTACHED AND SUPPORTED IN A LIKE MANNER FOLLOWING REDECKING. THE NEW HANDRAIL WILL BE NOTCHED AND THE POST SPACING ADJUSTED AS REQUIRED TO ACCOMMODATE THE POLES AND CONDUIT.
4. THE CONTRACTOR SHALL ARRANGE WITH PETRO MARINE TO TEMPORARILY MOVE THE SKID MOUNTED FUELING CONTROL BUILDING TO FACILITATE RE-DECKING. THE LIGHT POLE NEAR THIS BUILDING WILL BE LEFT IN PLACE AND DECKED AROUND. THE FUEL CONTROL BUILDING WILL BE PUT BACK IN POSITION AND OPERATION AFTER RE-DECKING.
5. THE LOAD LIMITS SHOWN ARE FROM PUBLISHED DATA MAINTAINED BY THE CITY OF HOMER. DUE TO THE AGE AND CONDITION OF THE STRUCTURE, SOME AREAS OF THE EXISTING DOCK MAY NOT SUPPORT THESE PUBLISHED LOADS. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN BRINGING HEAVY EQUIPMENT ONTO THE EXISTING DOCK. TEMPORARY SHORING AND BRACING MAY BE REQUIRED. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED BY HEAVY LOADS OR EQUIPMENT.

**EXISTING DOCK RE-DECKING PLAN**  
SCALE: 1" = 20'



REV.	DATE	BY	REVISION
1	02/03	MEH	AS-BUILT

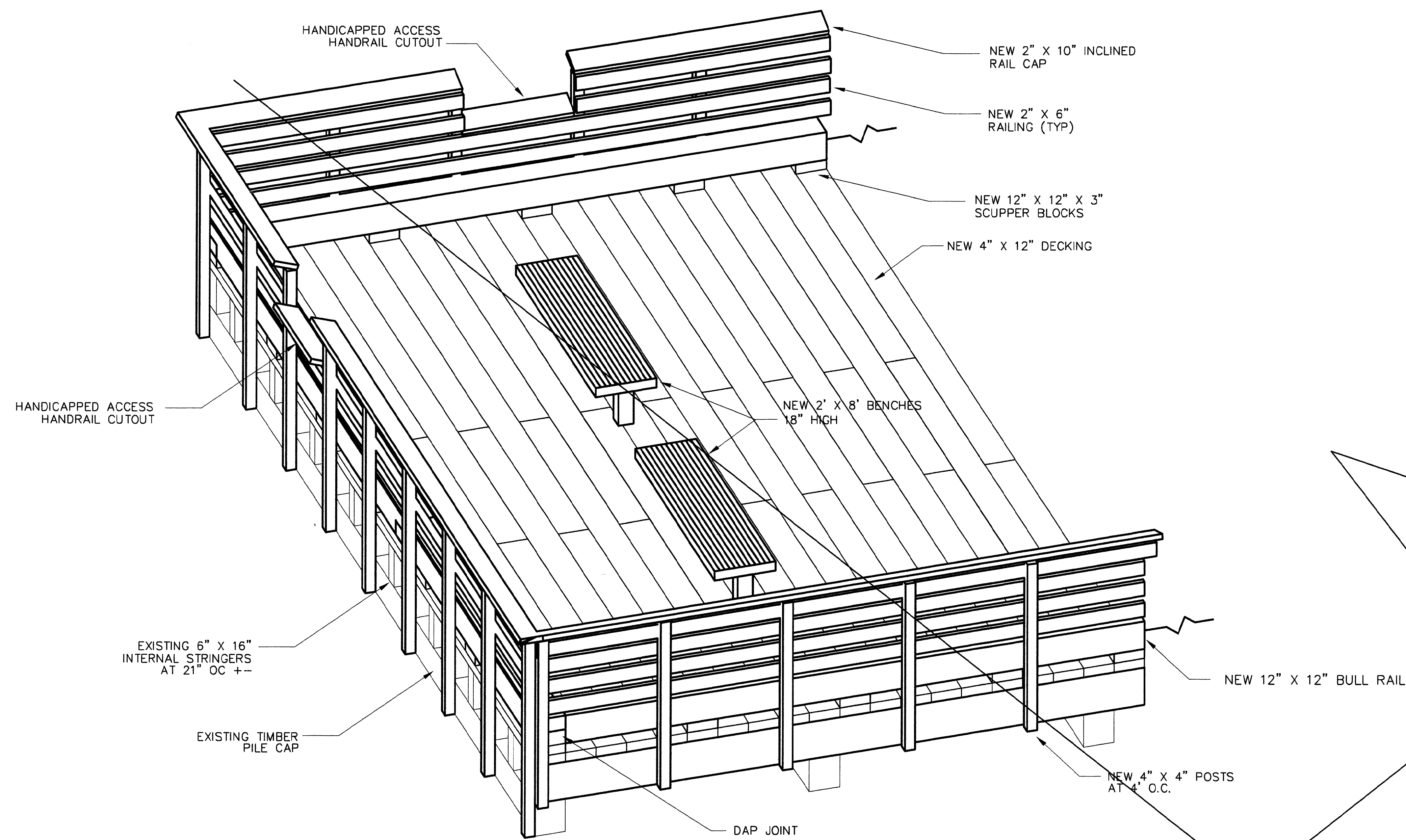


CITY OF HOMER  
TIMBER DOCK RE-DECKING  
PLAN - ADD ALT 3  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

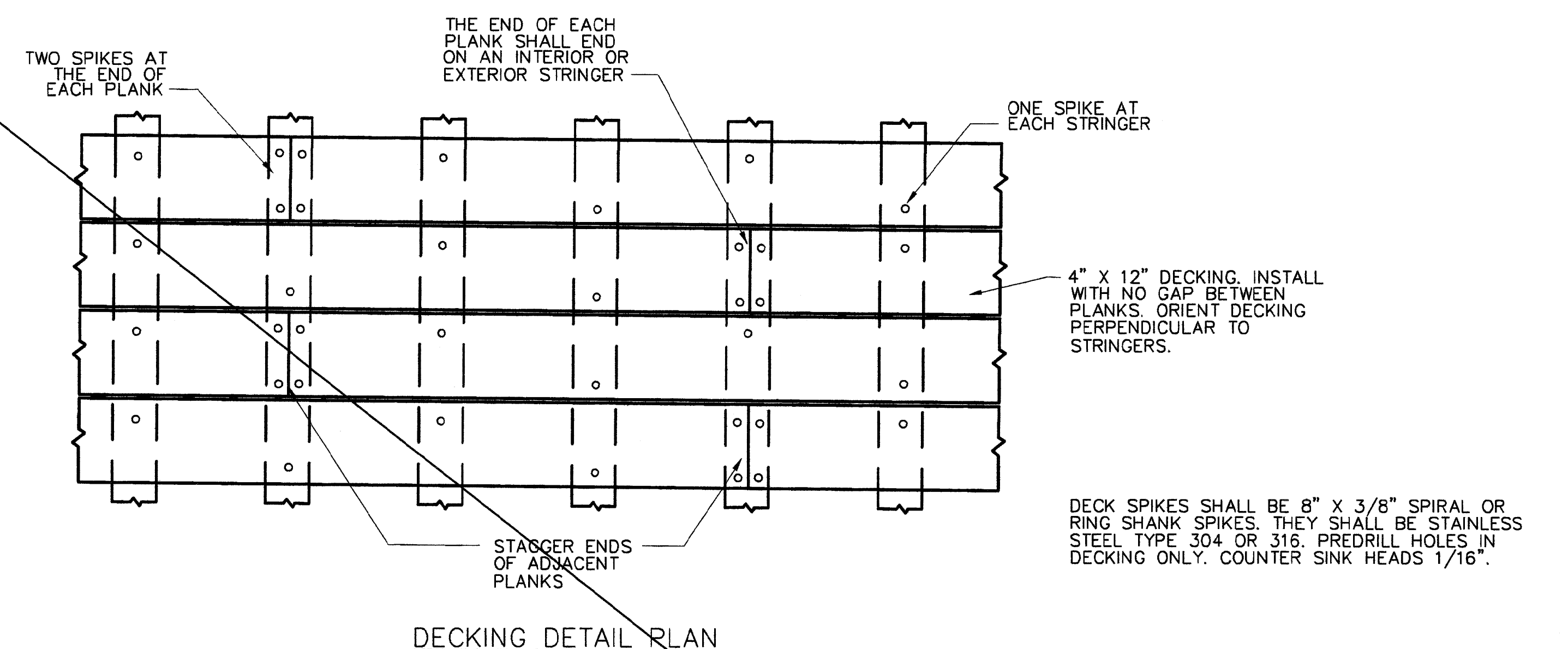
SHEET  
527 of 47

FILE NO.  
8239\_527.DWG

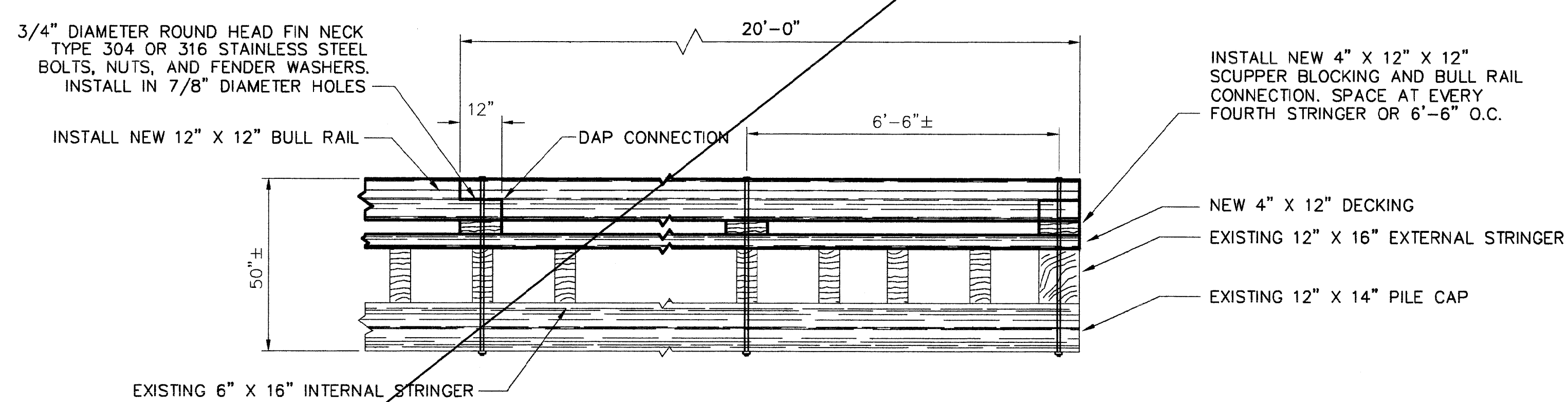




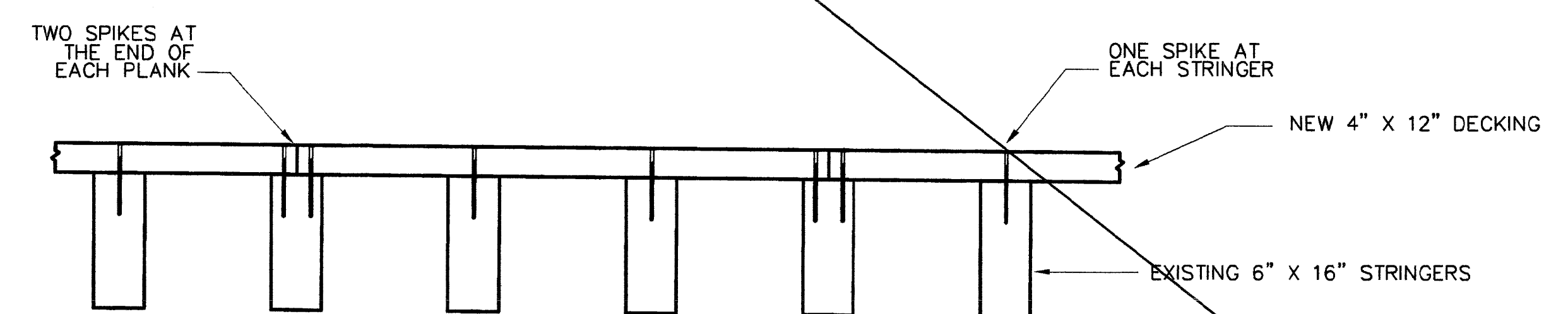
RE-DECKING ISOMETRIC  
NTS



DECKING DETAIL PLAN



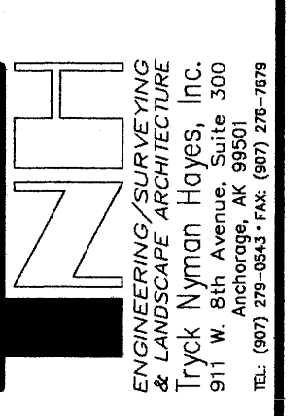
RE-DECKING SECTION  
SCALE: 1" = 10'



DECKING DETAIL SECTION

RE-DECKING DETAILS  
NTS

REV.	DATE	BY	REVISION
1	02/03	MCH	AS-BUILT



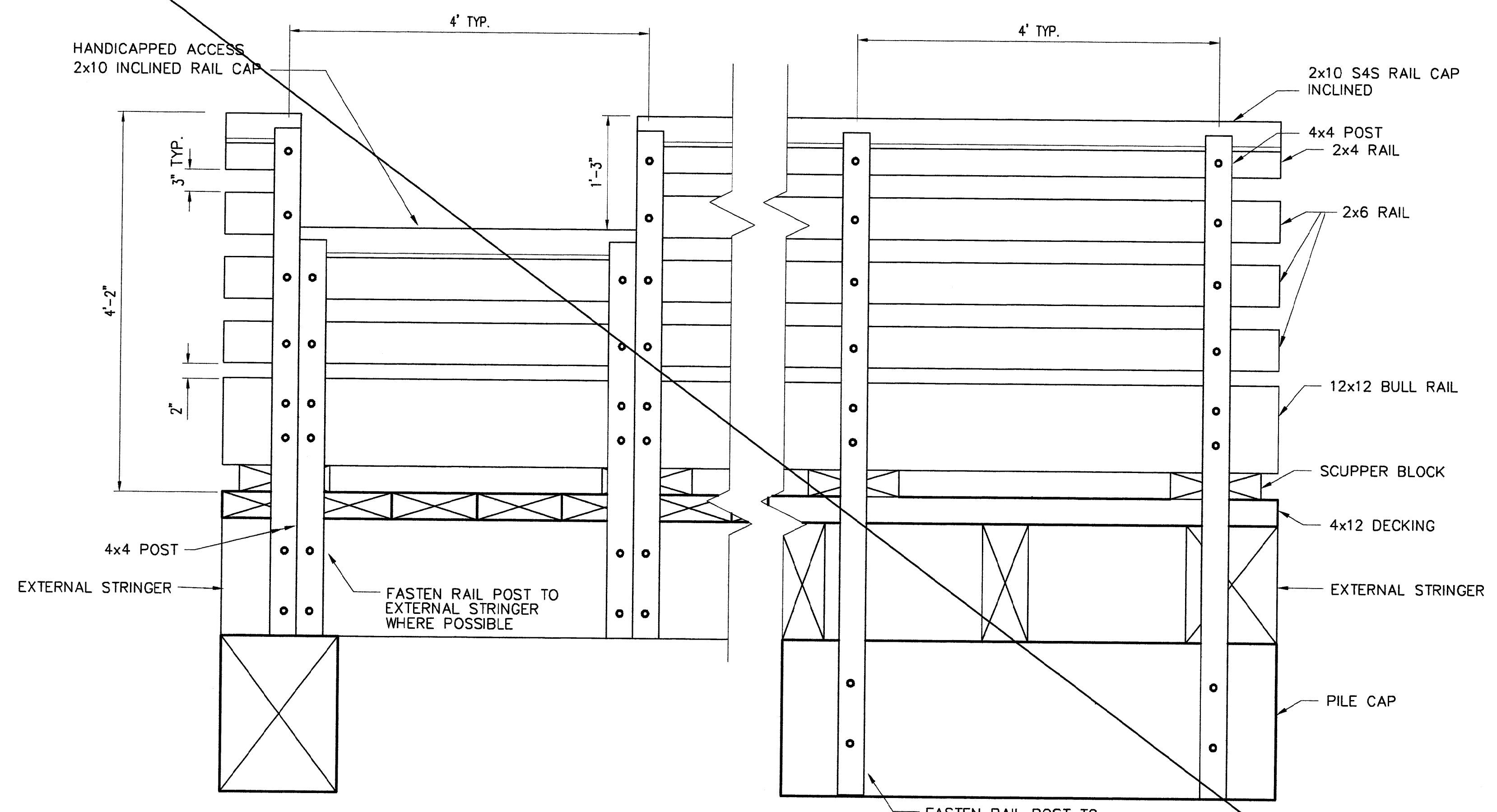
CITY OF HOMER  
TIMBER DOCK RE-DECKING  
DETAILS - ADD ALT 3  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
528 / 47

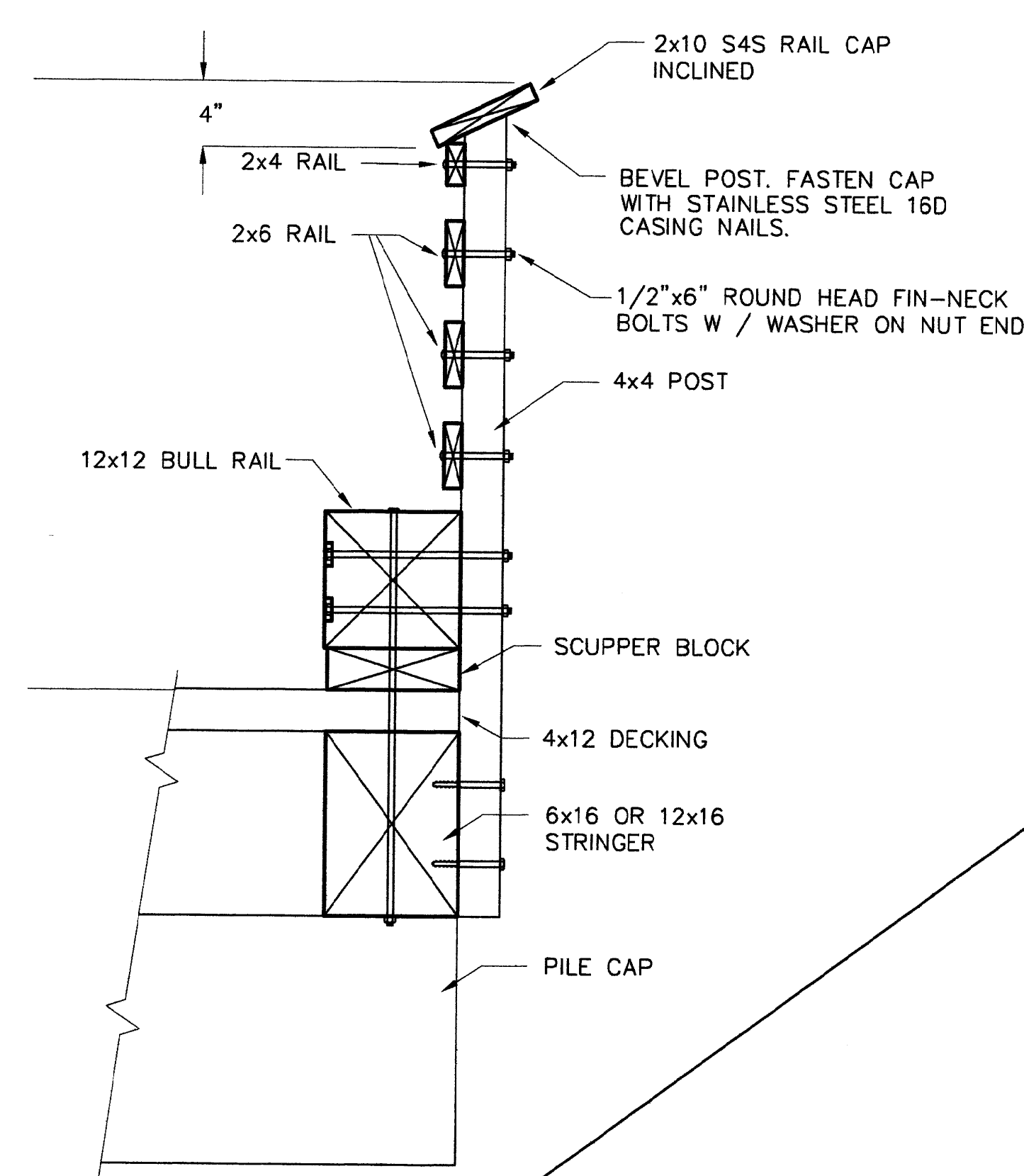


02124

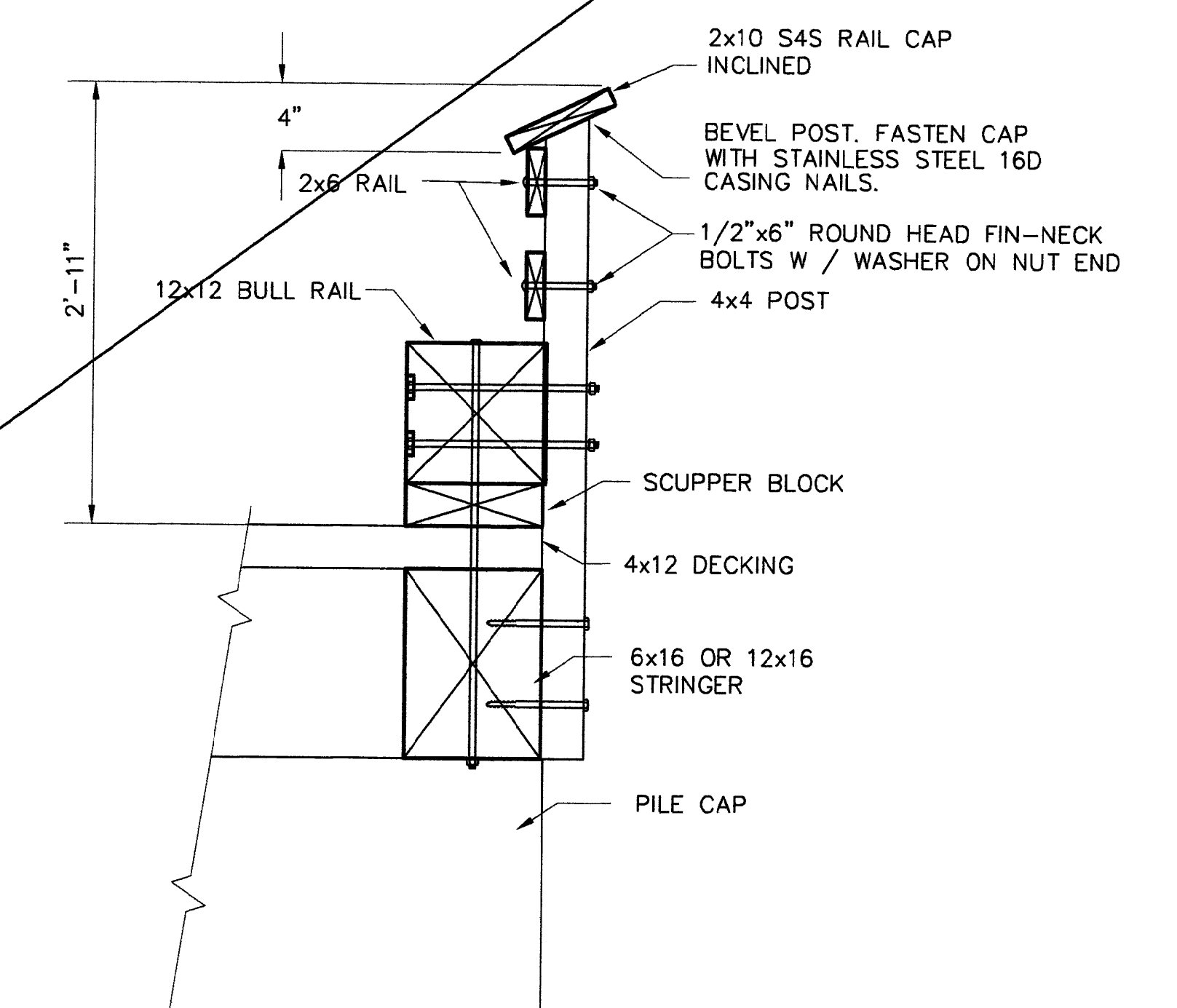




1 HANDRAIL DETAIL  
SCALE: 1" = 1'-0"



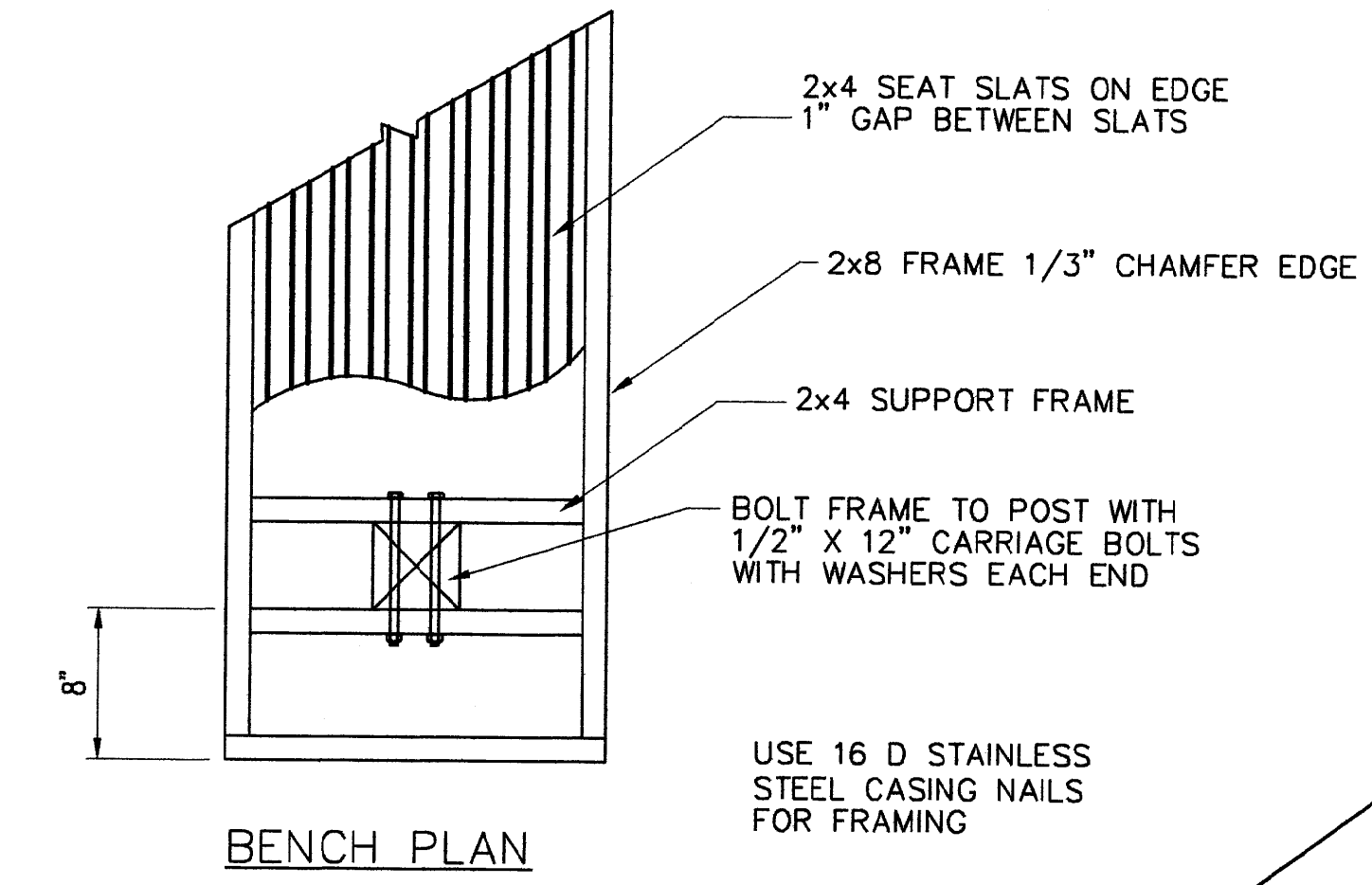
2 HANDRAIL SECTION  
SCALE: 1" = 1'-0"



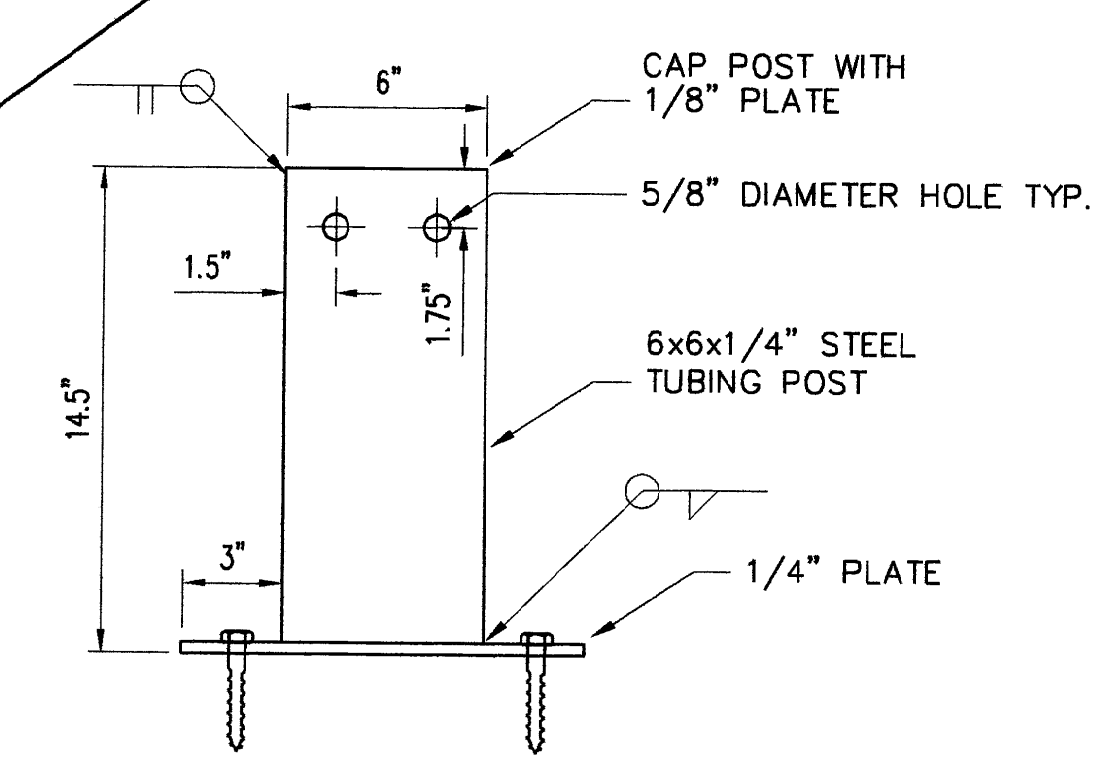
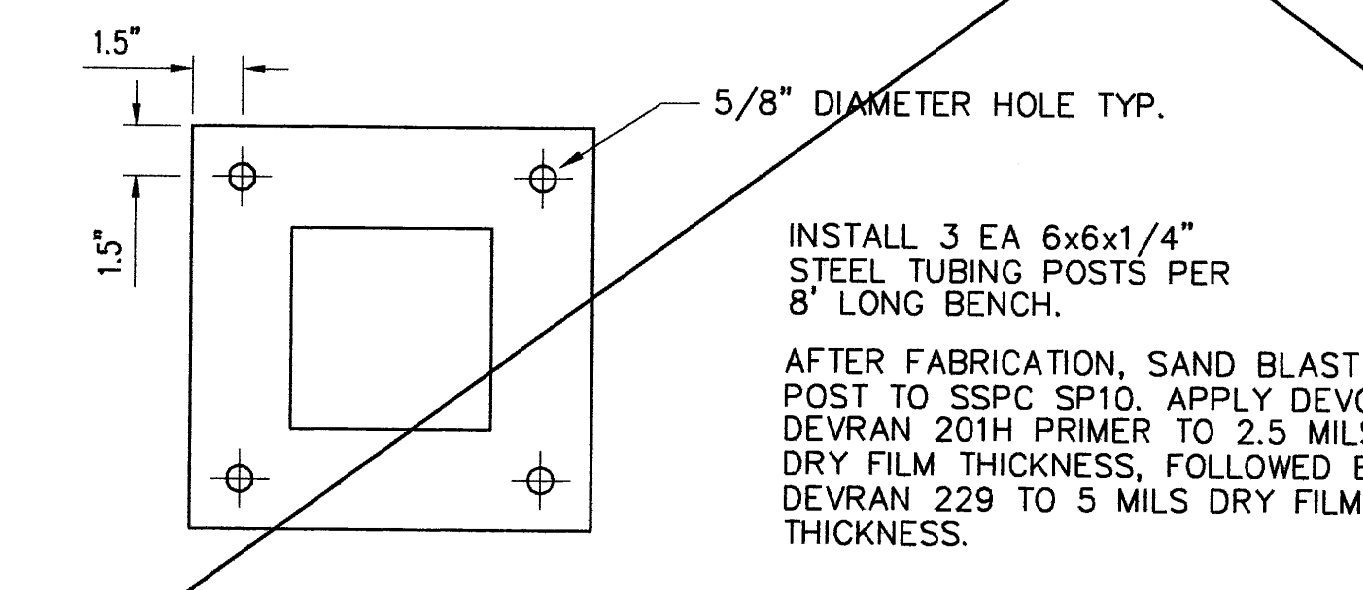
3 HANDICAPPED HANDRAIL SECTION  
SCALE: 1" = 1'-0"

RAILING NOTES

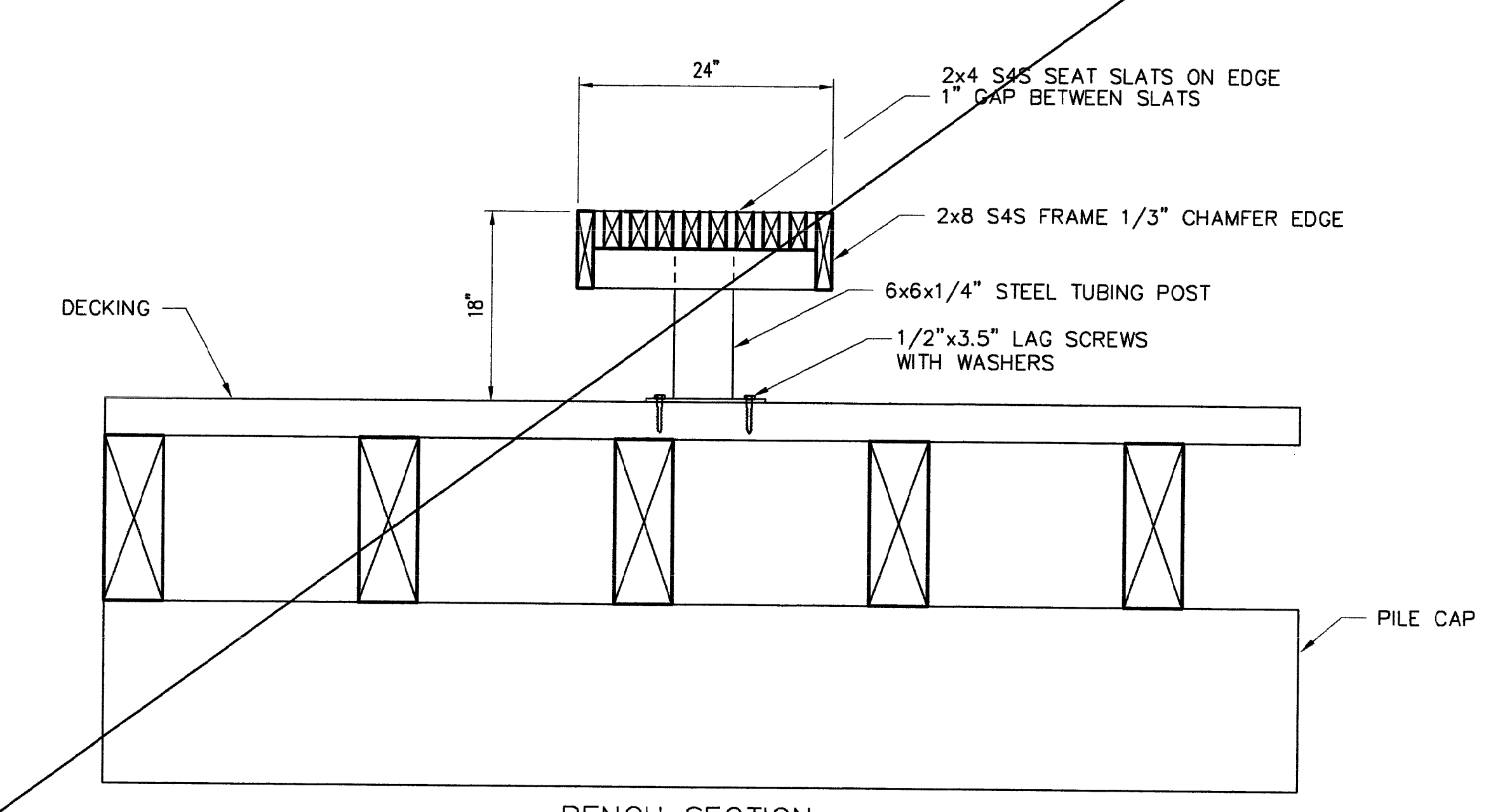
THE NEW RAILING WILL BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE TIMBER DOCK AFTER RE-DECKING. THIS INVOLVES APPROX. 1340 LINEAR FEET. THE CONTRACTOR WILL MAKE THE NECESSARY ADJUSTMENTS IN RAIL SPACING ETC. AS REQUIRED TO ACCOMMODATE EXISTING UTILITIES, LIGHT POLES, GANGWAYS ETC.



BENCH PLAN

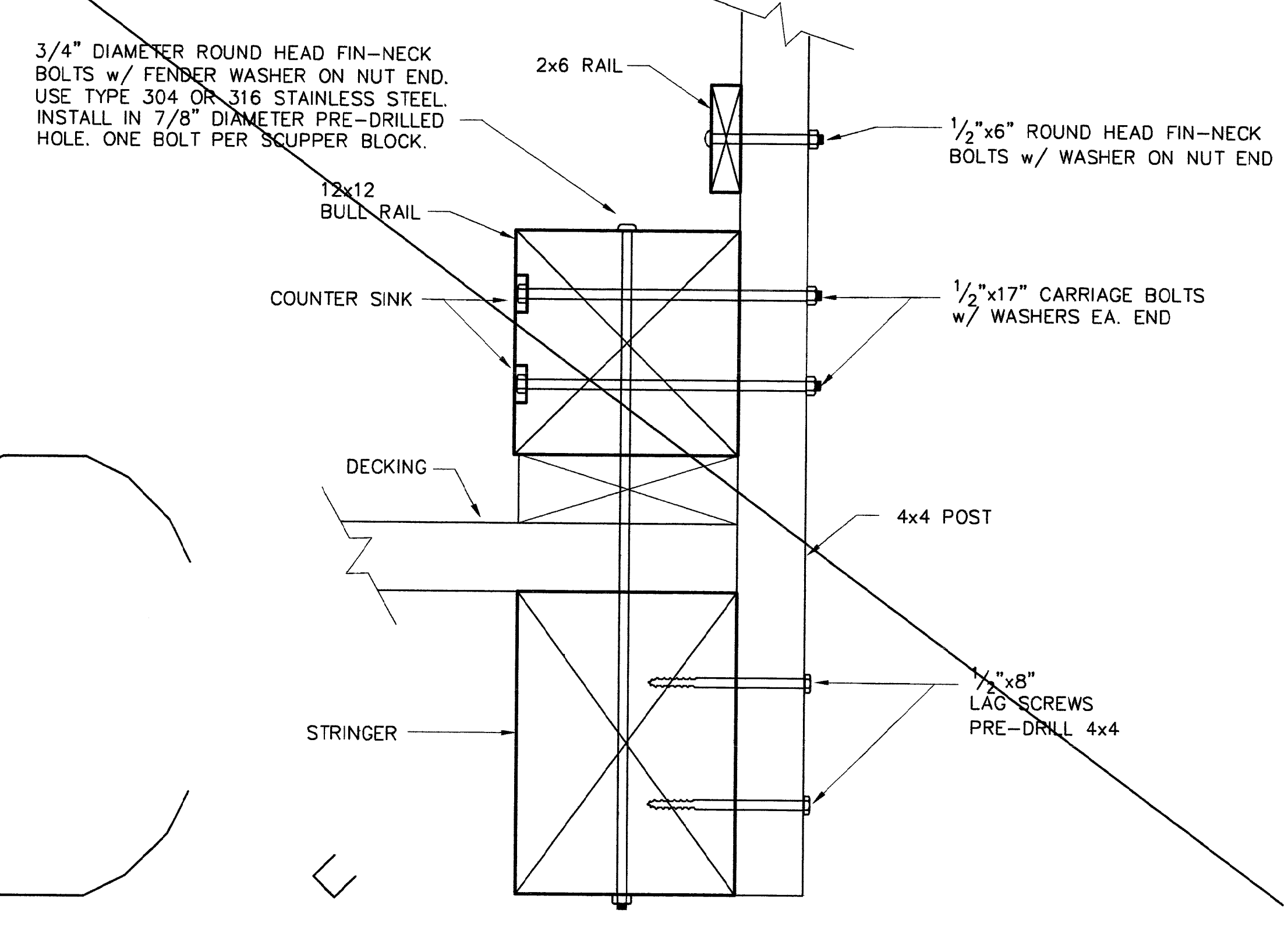


POST DETAILS



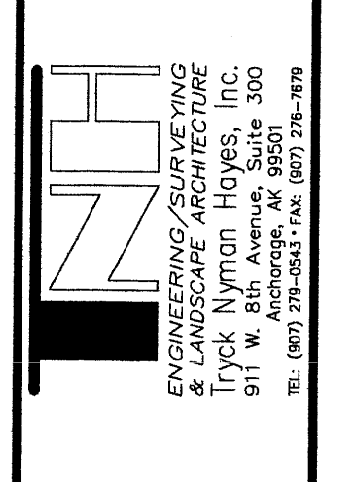
BENCH SECTION

4 BENCH DETAILS  
SCALE: 1" = 1'-0"



5 CONNECTION DETAIL  
SCALE: 2" = 1'-0"

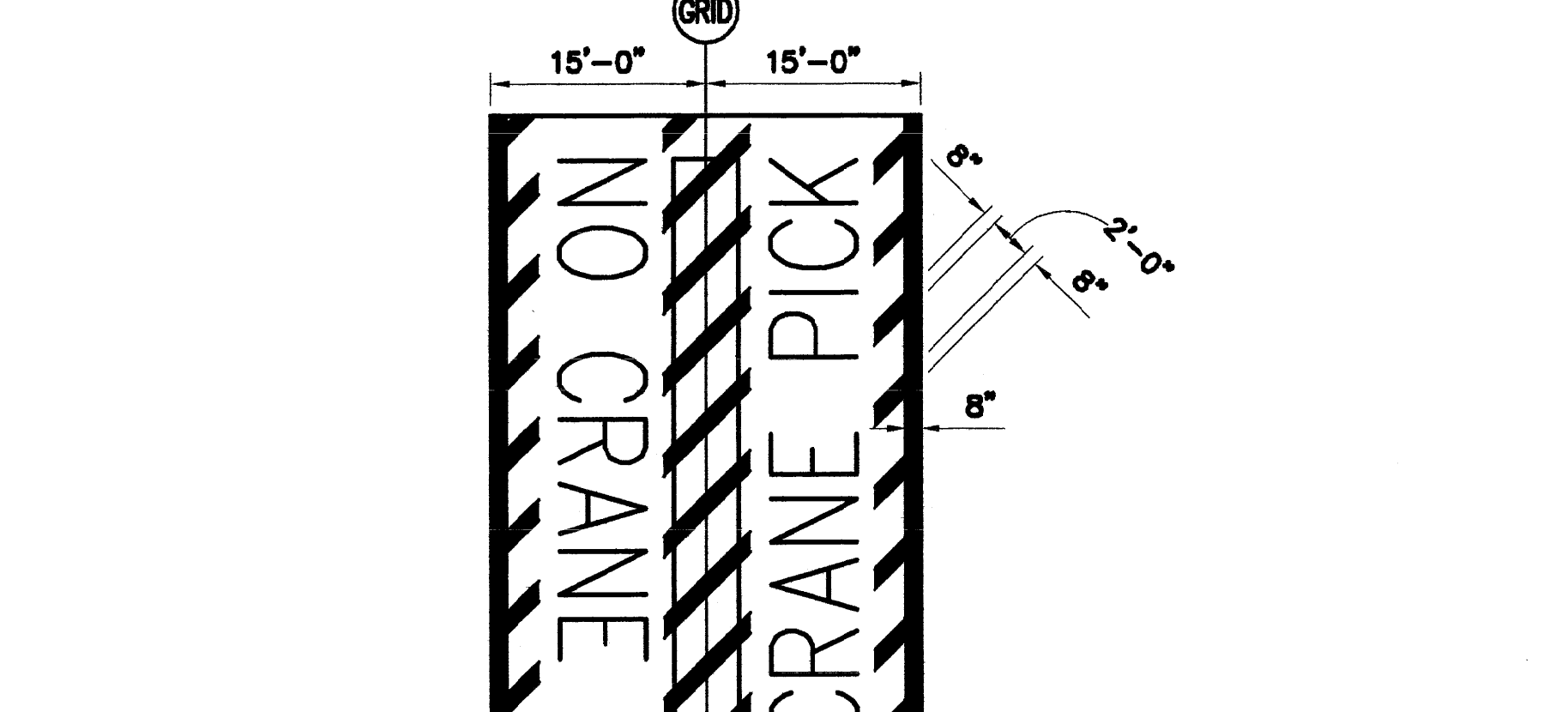
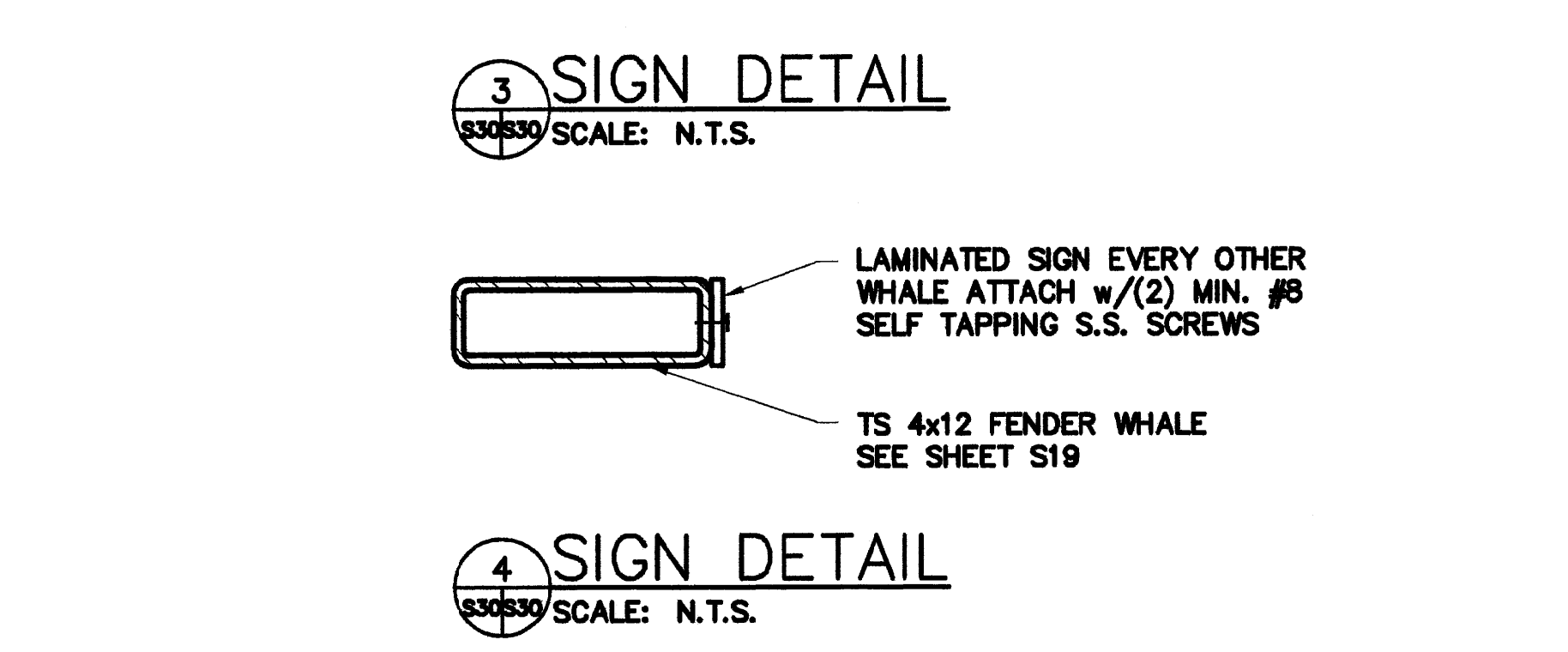
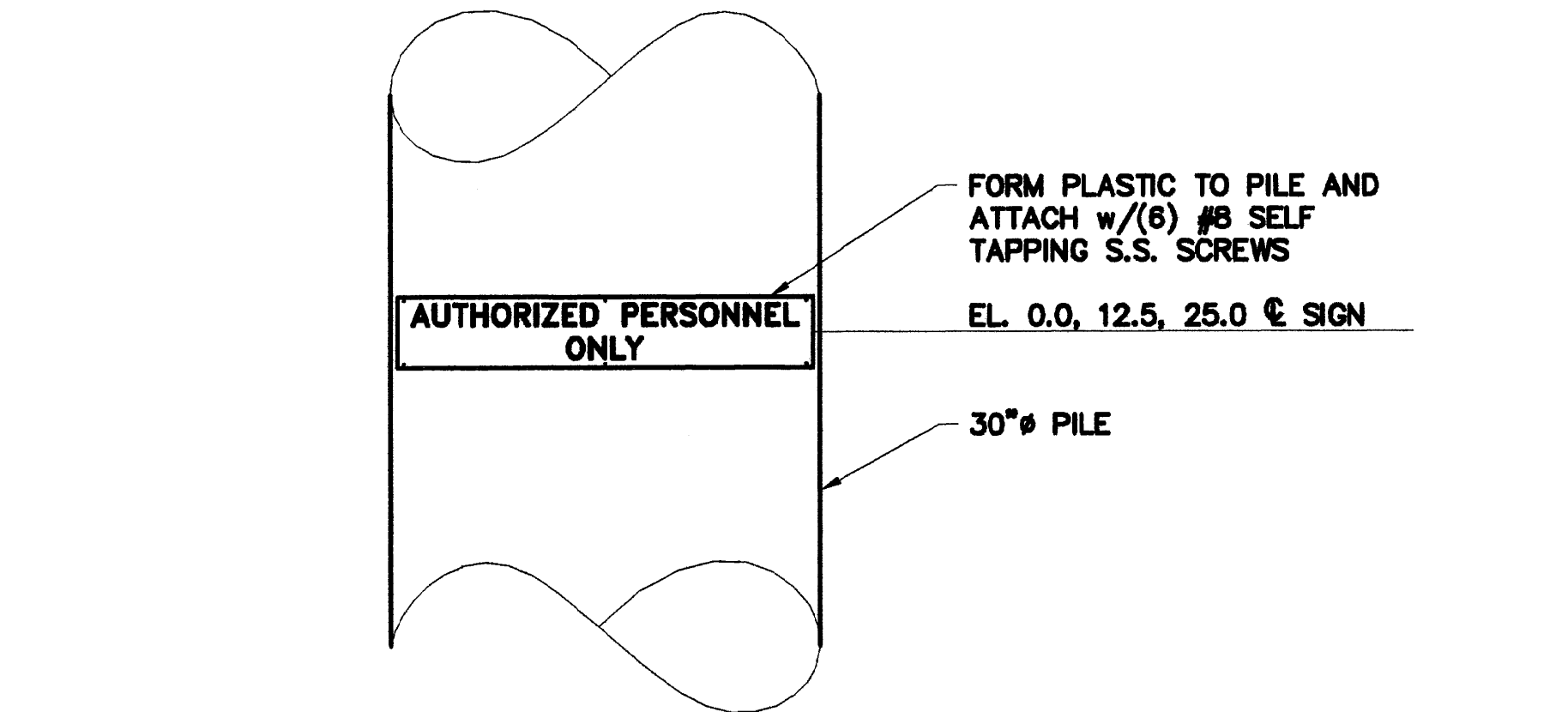
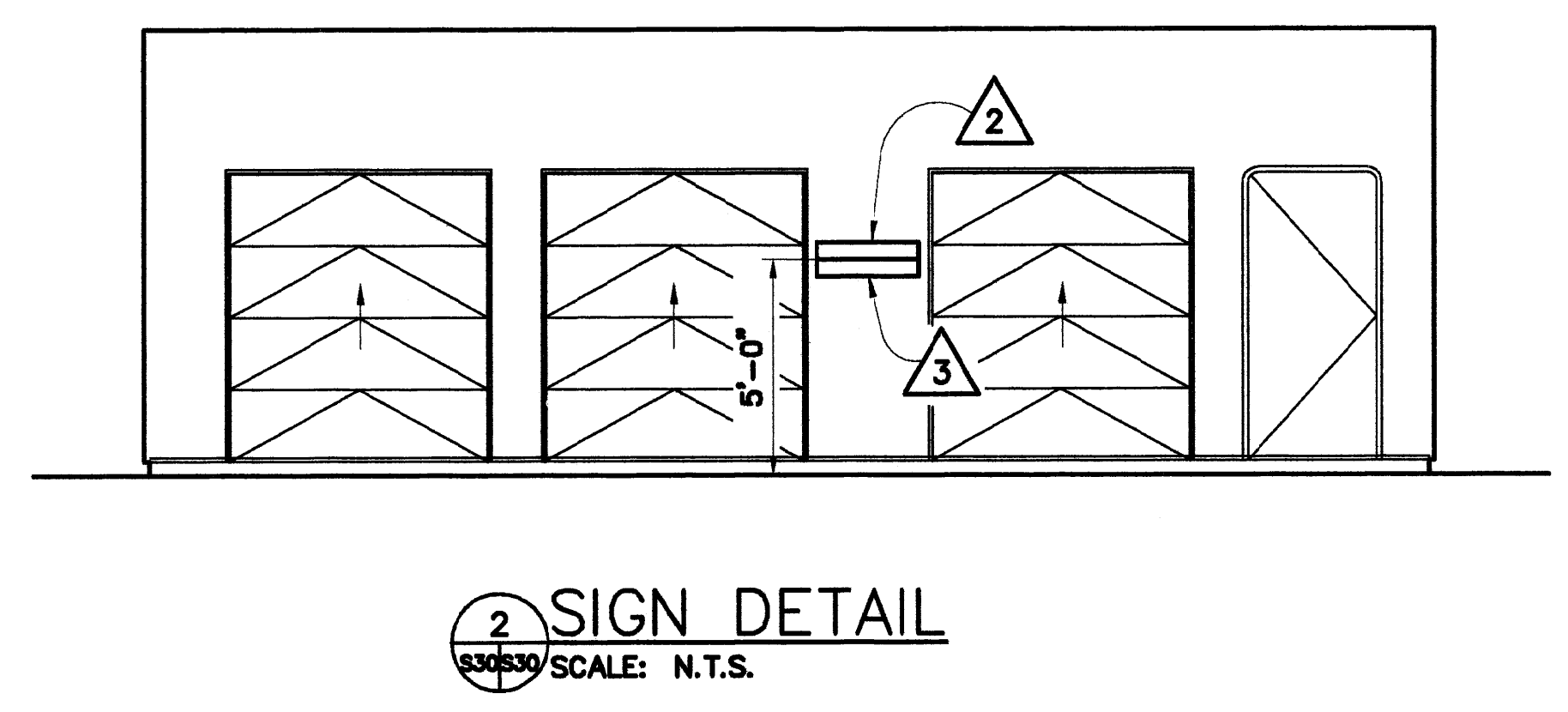
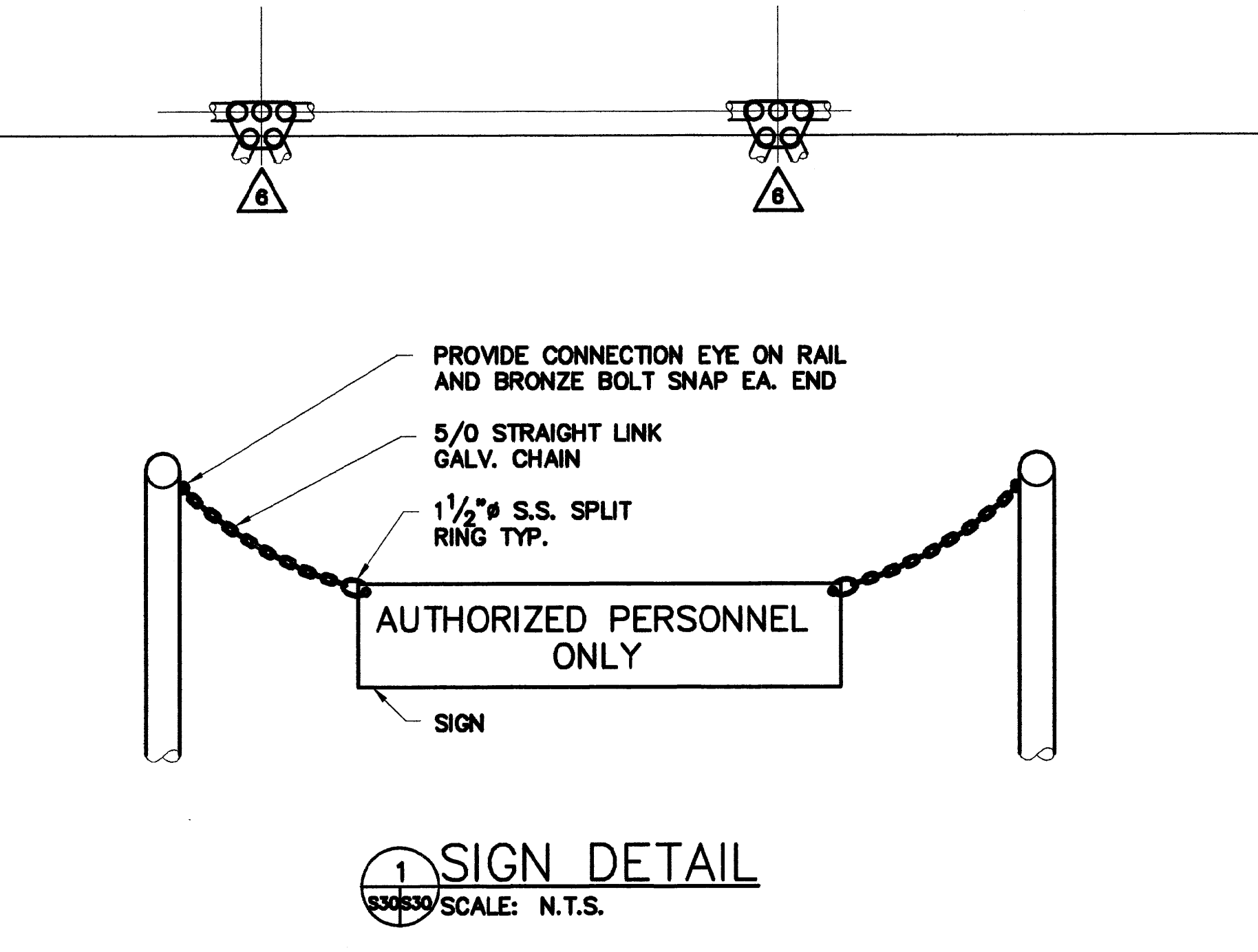
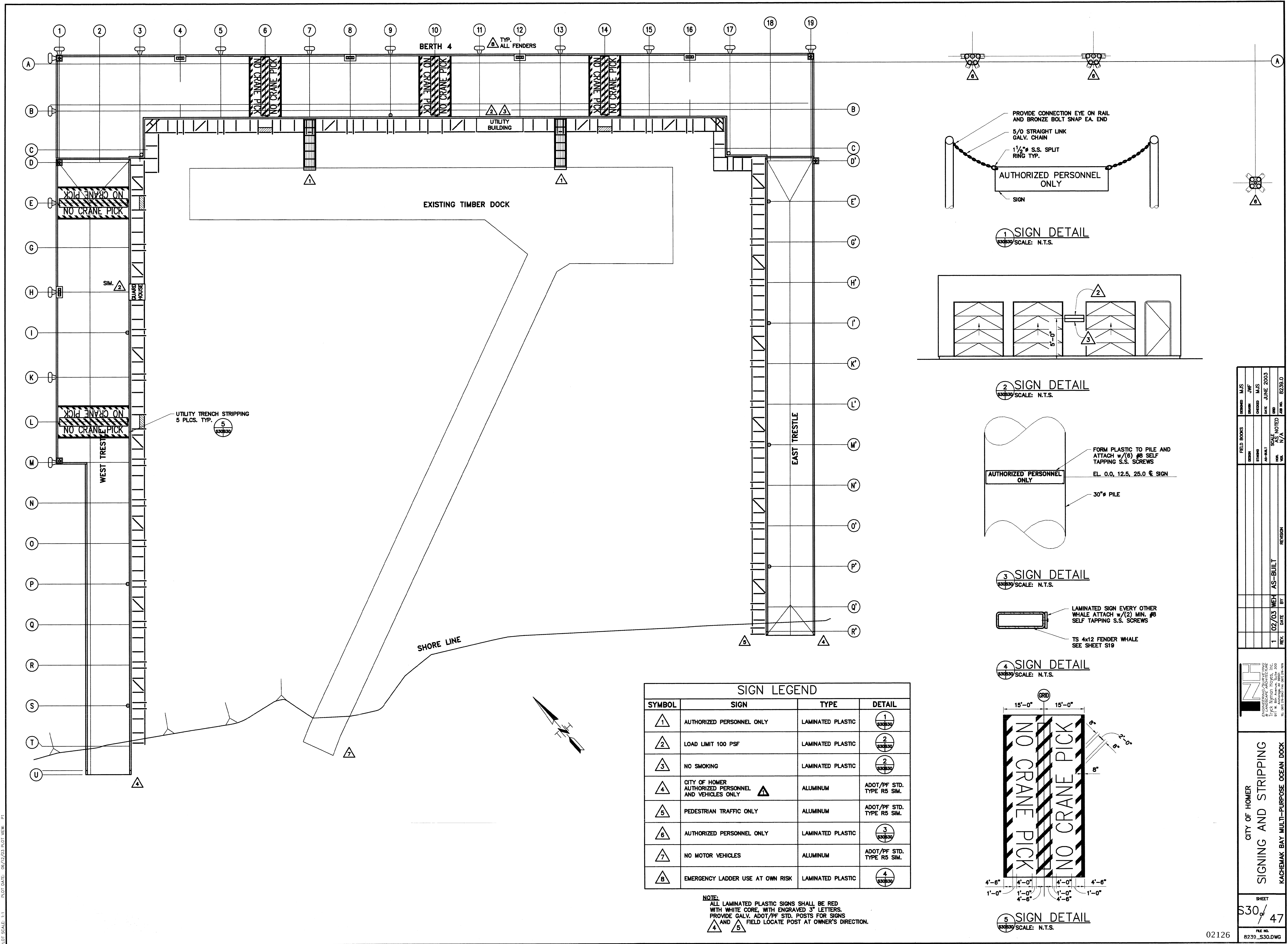
REV.	DATE	BY	SCALE	USE	REV.
1	02/03	WEH	AS-BUILT		



CITY OF HOMER  
TIMBER DOCK RAILING  
DETAILS - ADD ALT 3  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
529 / 47





SIGN LEGEND			
SYMBOL	SIGN	TYPE	DETAIL
1	AUTHORIZED PERSONNEL ONLY	LAMINATED PLASTIC	1
2	LOAD LIMIT 100 PSF	LAMINATED PLASTIC	2
3	NO SMOKING	LAMINATED PLASTIC	2
4	CITY OF HOMER AUTHORIZED PERSONNEL AND VEHICLES ONLY	ALUMINUM	ADOT/PF STD. TYPE R5 SIM.
5	PEDESTRIAN TRAFFIC ONLY	ALUMINUM	ADOT/PF STD. TYPE R5 SIM.
6	AUTHORIZED PERSONNEL ONLY	LAMINATED PLASTIC	3
7	NO MOTOR VEHICLES	ALUMINUM	ADOT/PF STD. TYPE R5 SIM.
8	EMERGENCY LADDER USE AT OWN RISK	LAMINATED PLASTIC	4

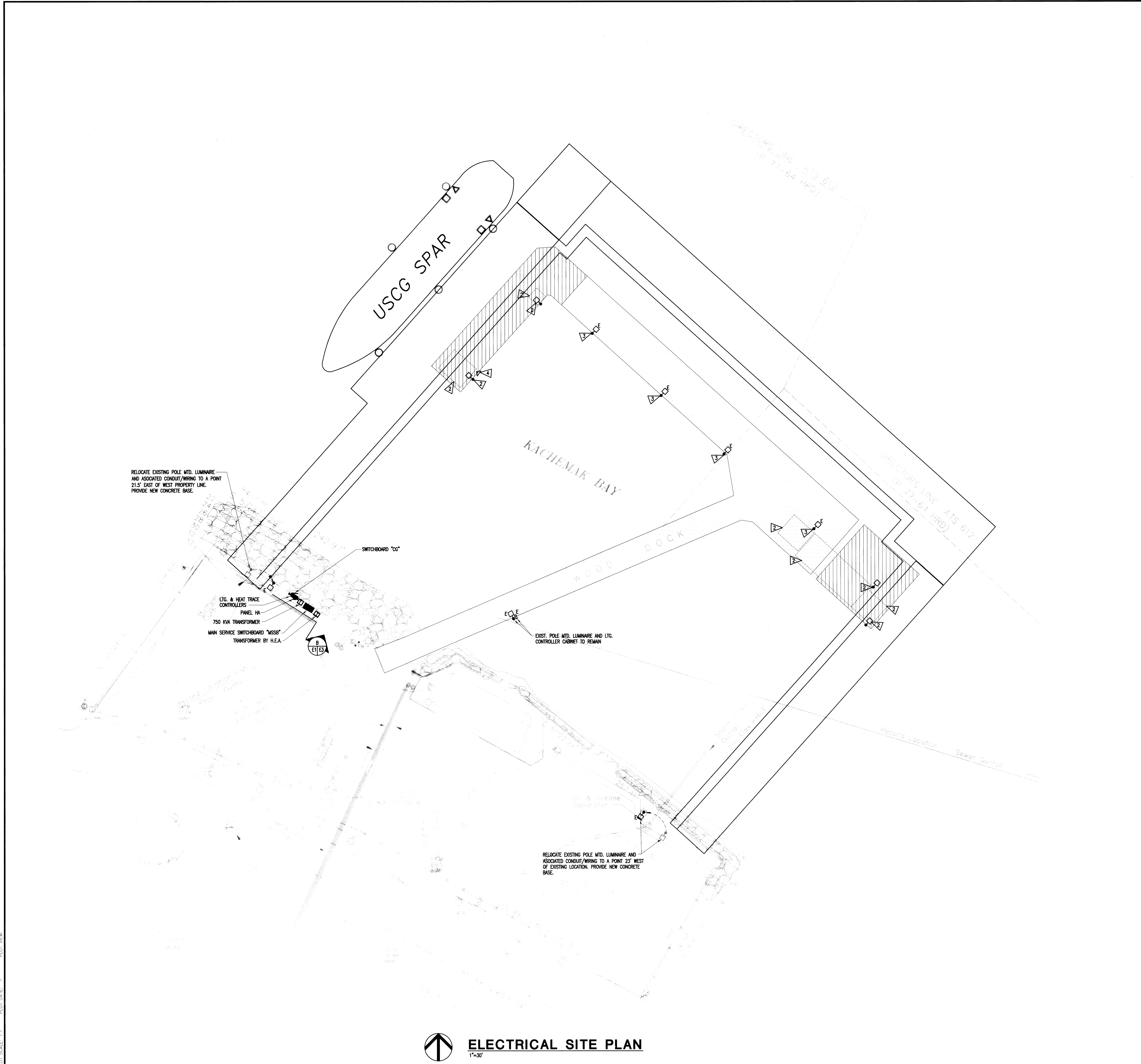
NOTE:  
 ALL LAMINATED PLASTIC SIGNS SHALL BE RED WITH WHITE CORE, WITH ENGRAVED 3" LETTERS. PROVIDE GALV. ADOT/PF STD. POSTS FOR SIGNS AND FIELD LOCATE POST AT OWNER'S DIRECTION.

DESIGNED	MUS	DATE	JUNE 2003
DRAWN	JMF	DATE	JUNE 2003
CHECKED	MUS	DATE	JUNE 2003
SCALE	NOTED	BY	AS-BUILT
REV.	DATE	BY	REVISION
1	02/03	WEH	AS-BUILT

FILE NO. 8239\_S30.DWG

PLOT SCALE: 1:1





LEGEND	
PLAN	DIAGRAM
(Symbol: Circle with dot)	400 AMP WATERPROOF RECEPTACLE AND WATER TIGHT J-BOX
(Symbol: Square with cross)	TRANSFORMER
(Symbol: Square with 'W')	WATT HOUR METER
(Symbol: Square with 'C')	CIRCUIT BREAKER
(Symbol: Square with 'G')	GROUND CONNECTION
(Symbol: Square with 'P')	PANELBOARD
(Symbol: Square with 'D')	MOORING DOLPHIN NAVIGATIONAL LIGHT
(Symbol: Square with 'L')	POLE MOUNTED LIGHTING FIXTURE
(Symbol: Square with 'M')	MARKER LIGHT
(Symbol: Square with 'S')	SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE
(Symbol: Square with 'R')	GROUNDING TYPE DUPLEX RECEPTACLE, 125V, 15A
(Symbol: Square with 'T')	TELEPHONE OUTLET
(Symbol: Square with 'W')	WALL SWITCH
(Symbol: Square with 'E')	EQUIPMENT CONNECTION
(Symbol: Square with 'D')	DISCONNECT SWITCH
(Symbol: Square with 'J')	JUNCTION BOX
(Symbol: Line with hash marks)	RAZORBY MARKING INDICATES QUANTITY OF WIRES IN CONDUIT - HASH MARK INDICATE CONDUCTORS PROVIDE ADDITIONAL COPPER EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS, NOT SHOWN.
(Symbol: Line with 'H')	HOMERUN: NUMBER OF CONDUCTORS INDICATED
(Symbol: Square with 'E')	"E" INDICATES EXISTING TO REMAIN.
(Symbol: Circle with 'LA')	LIGHT FIXTURE IDENTIFICATION, REFER TO SCHEDULE
(Symbol: Circle with 'CS')	CONDUIT/WIRING TAG, REFER TO SCHEDULE
(Symbol: Dashed line)	HEAT TRACE
(Symbol: Solid line)	HEAT TRACE TERMINATION
(Symbol: Line with arrow)	HEAT TRACE POWER CONNECTION POINT
(Symbol: Line with seal)	HEAT TRACE LIGHTED END SEAL
(Symbol: Square with 'EP')	EXPLOSION PROOF

**SITE NOTES:**

- REFER TO DRAWING E2 FOR ELECTRICAL WORK ON THE NEW DOCK.

(Symbol: Triangle with 'A') HATCH AREA INDICATES PORTION OF EXISTING DOCK TO BE DEMOLISHED. ALL BUILDINGS, POLE MOUNTED LIGHTS AND MISCELLANEOUS ELECTRICAL EQUIPMENT IN THIS AREA TO BE DEMOLISHED. REMOVE ALL CONDUITS AND ASSOCIATED WIRING BACK TO NEAREST JUNCTION BOX WHILE MAINTAINING EXISTING ELECTRICAL CIRCUITS TO REMAIN.

(Symbol: Triangle with 'B') FOUR EXISTING POLE MOUNTED LIGHTS TO REMAIN.

(Symbol: Triangle with 'C') EXISTING SATELLITE DISH AND COMMUNICATIONS EQUIPMENT TO BE RELOCATED AND REINSTALLED AT THE NEW GUARD HOUSE. SEE 4/E3.

PLOT SCALE: 1"=30'

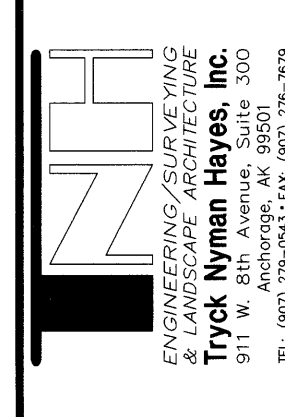
**ELECTRICAL SITE PLAN**  
1"=30'

THIS RECORD DOCUMENT HAS BEEN REVISED TO INCLUDE FIELD MARKUPS PROVIDED BY THE CONTRACTOR. COFFMAN ENGINEERS HAS NOT FIELD VERIFIED THIS INFORMATION AND DOES NOT CERTIFY THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.  
DATE: 03/11/03



COFFMAN ENGINEERS  
800 F Street  
Nashua, NH 03061  
978-276-8664 Fax: 978-276-8467  
Lic No. 02259-D

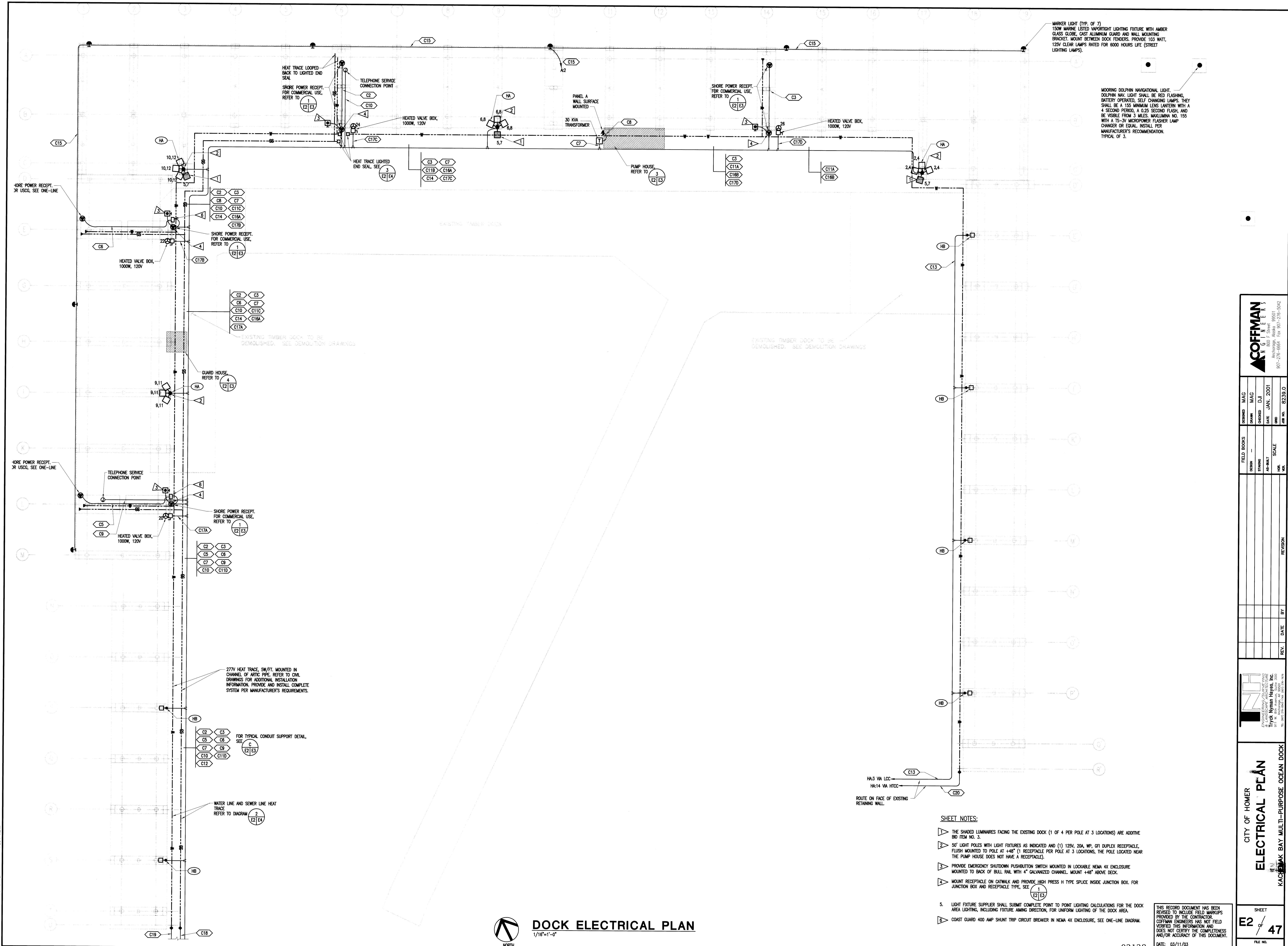
DESIGNED	MAG	DATE	SCALE	REV.	BY	DATE
DESIGNED	MAG	JAN, 2001	SCALE			
DRAWN	DJI					
CHECKED						
REVISION						



CITY OF HOMER  
**ELECTRICAL SITE PLAN**  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
**E1 / 47**  
FILE NO.  
98435E1





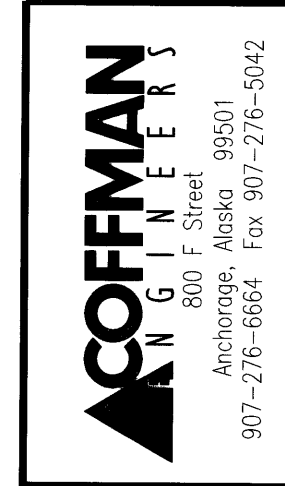
MARKER LIGHT (TYP. OF 7)  
150W MARINE LISTED IMPROVED LIGHTING FIXTURE WITH AMBER GLASS GLOBE, CAST ALUMINUM GUARD AND WALL MOUNTING BRACKET. MOUNT BETWEEN DOCK FENDERS. PROVIDE 103 WATT, 120V CLEAR LAMPS RATED FOR 6000 HOURS LIFE (STREET LIGHTING LAMPS).

MOORING DOLPHIN NAVIGATIONAL LIGHT. DOLPHIN NAV. LIGHT SHALL BE RED FLASHING, BATTERY OPERATED, SELF CHARGING LAMPS. THEY SHALL BE A 155 MINIMUM LENS LANTERN WITH A 4 SECOND PERIOD, A 0.25 SECOND FLASH, AND BE VISIBLE FROM 3 MILES. MAXIMUM NO. 155 WITH A TS-3V MICROPOWER FLASHER LAMP CHARGER OR EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATION. TYPICAL OF 3.

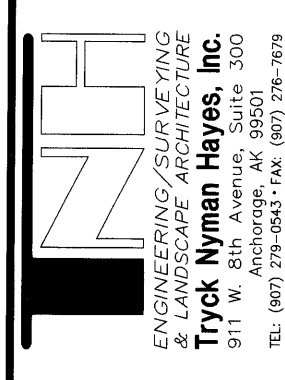
- SHEET NOTES:**
- THE SHARED LUMINAIRES FACING THE EXISTING DOCK (1 OF 4 PER POLE AT 3 LOCATIONS) ARE ADDITIVE BID ITEM NO. 3.
  - 50' LIGHT POLES WITH LIGHT FIXTURES AS INDICATED AND (1) 125V, 20A, WP, GFI DUPLEX RECEPTACLE, FLUSH MOUNTED TO POLE AT +48" (1 RECEPTACLE PER POLE AT 3 LOCATIONS, THE POLE LOCATED NEAR THE PUMP HOUSE DOES NOT HAVE A RECEPTACLE).
  - PROVIDE EMERGENCY SHUTDOWN PUSHBUTTON SWITCH MOUNTED IN LOCKABLE NEMA 4X ENCLOSURE MOUNTED TO BACK OF BULL RAIL WITH 4" GALVANIZED CHANNEL. MOUNT +48" ABOVE DECK.
  - MOUNT RECEPTACLE ON OUTWALK AND PROVIDE HIGH PRESS H TYPE SPLICE INSIDE JUNCTION BOX FOR JUNCTION BOX AND RECEPTACLE TYPE. SEE (E2) (E3).
  - LIGHT FIXTURE SUPPLIER SHALL SUBMIT COMPLETE POINT TO POINT LIGHTING CALCULATIONS FOR THE DOCK AREA LIGHTING, INCLUDING FIXTURE ANGLE DIRECTION, FOR UNIFORM LIGHTING OF THE DOCK AREA.
  - COAST GUARD 400 AMP SHUNT TRIP CIRCUIT BREAKER IN NEMA 4X ENCLOSURE, SEE ONE-LINE DIAGRAM.

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DATE: 03/11/03

**DOCK ELECTRICAL PLAN**  
1/16"=1'-0"



DESIGNED	MAC
DRAWN	MAC
CHECKED	DJ
DATE	JAN, 2001
SCALE	
REV.	
JOB NO.	80238.0



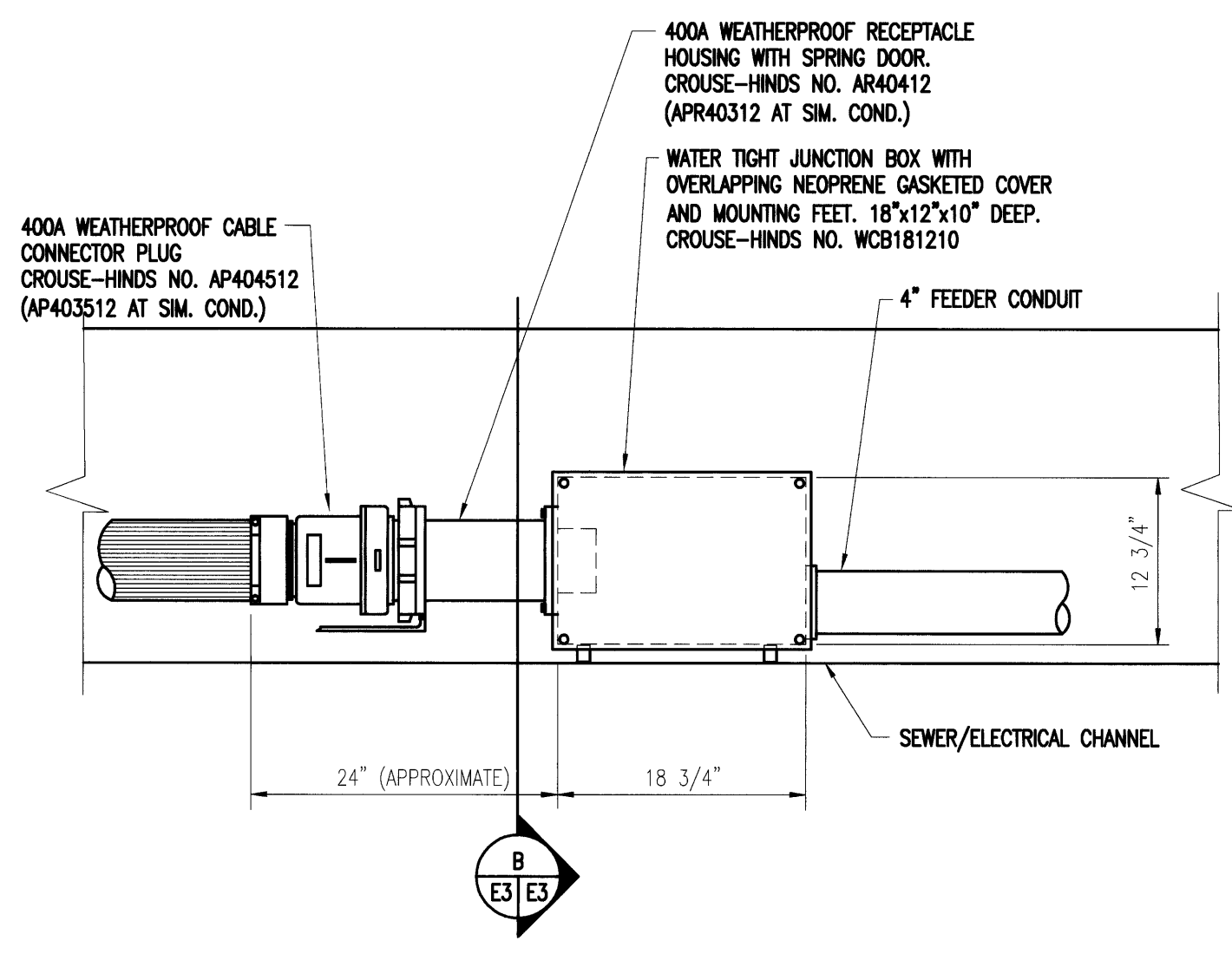
**ELECTRICAL PLAN**  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET	E2	OF	47
FILE NO.	98435E2		

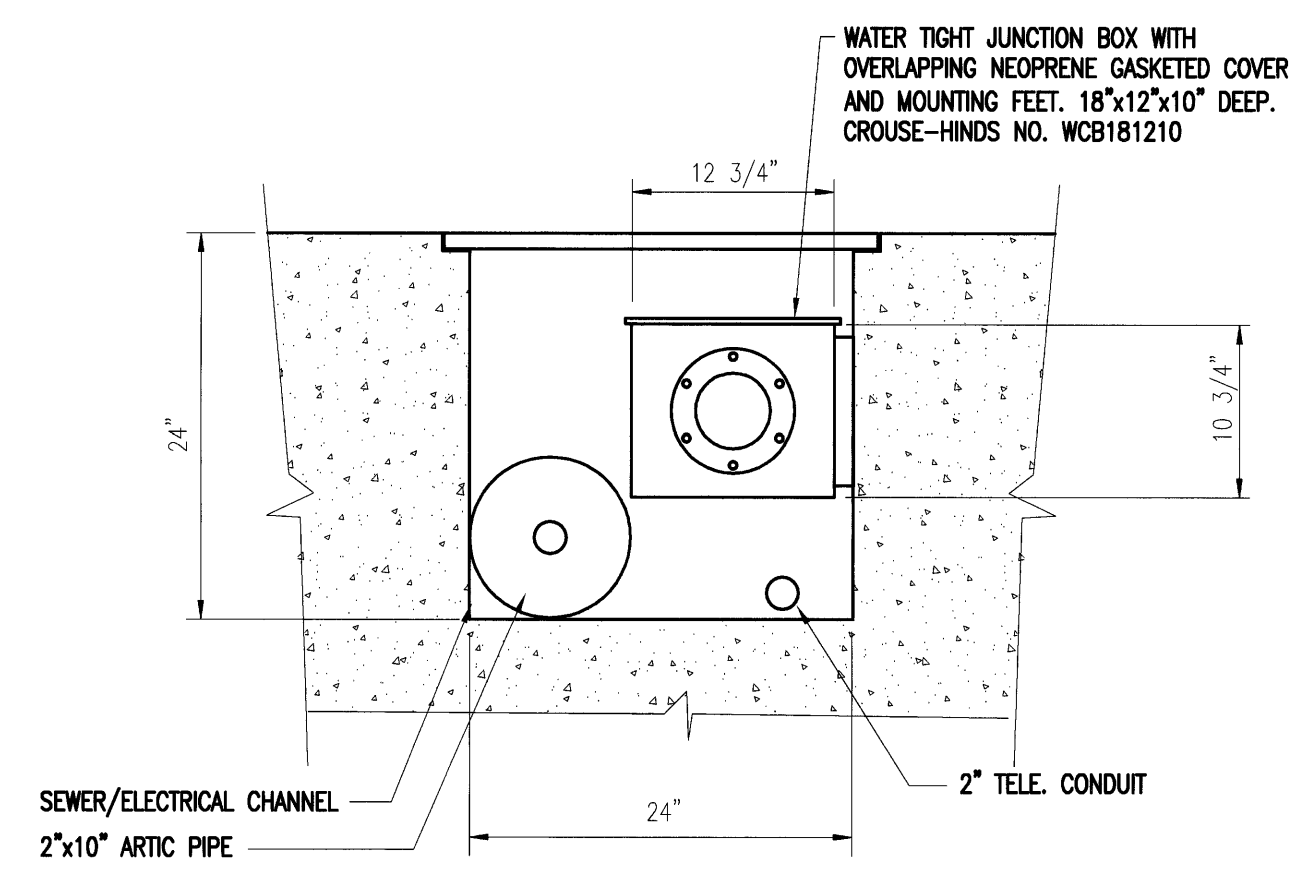
02128

PLOT SCALE: 1:1 PLOT DATE: PLOT WEEK:

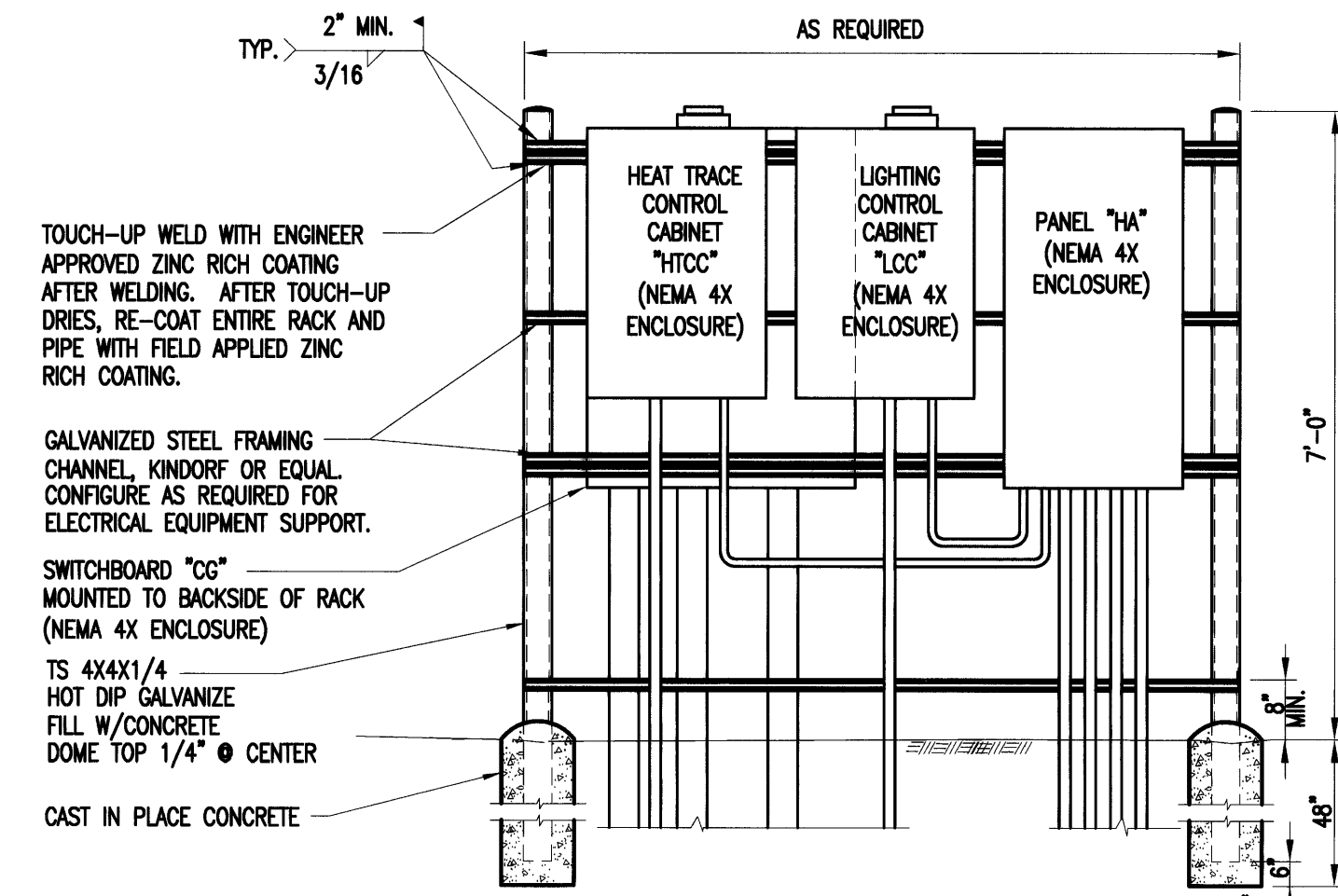




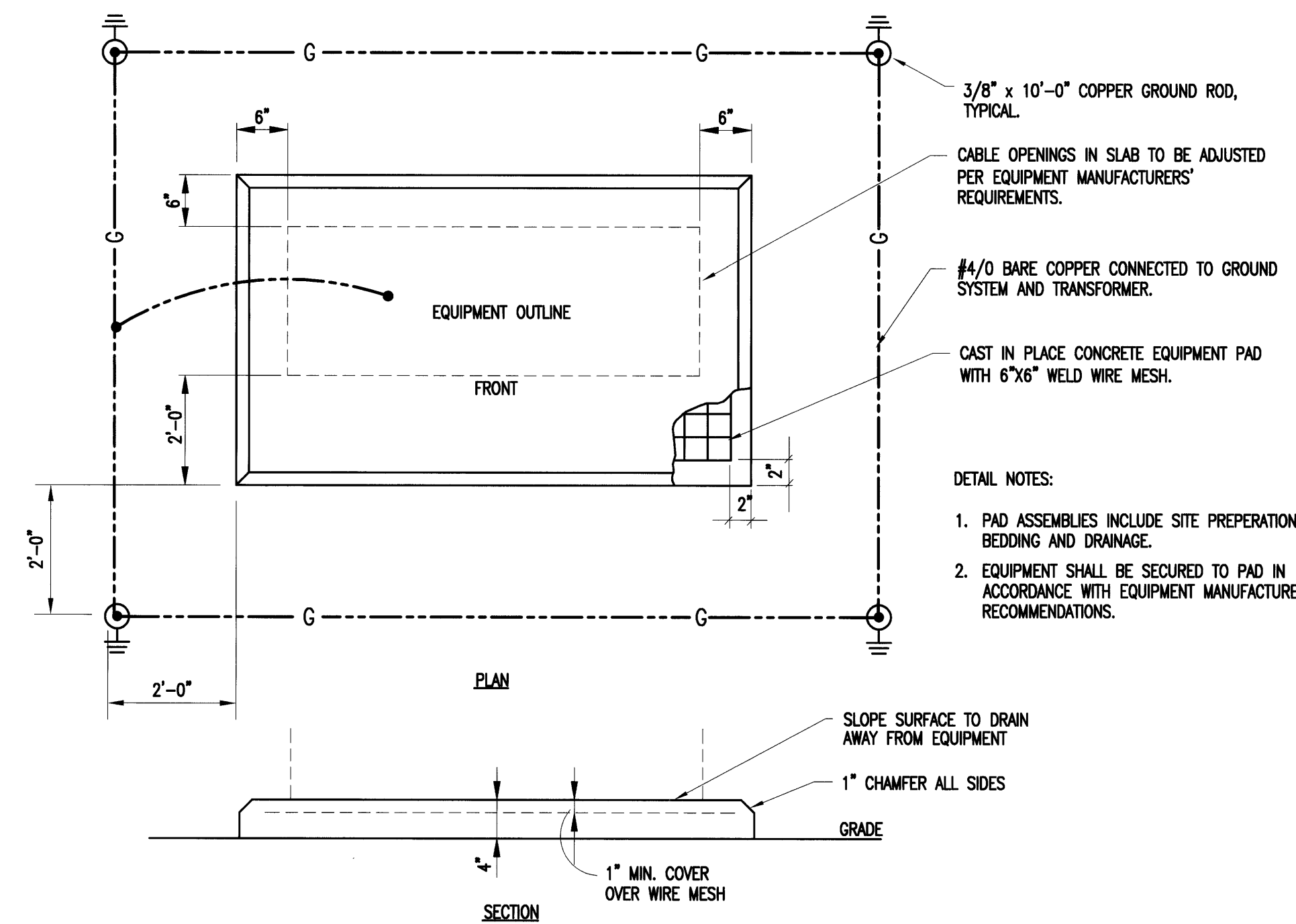
**1 DOCK SHORE POWER DETAIL**  
E2 E3 1/4"=1'-0"



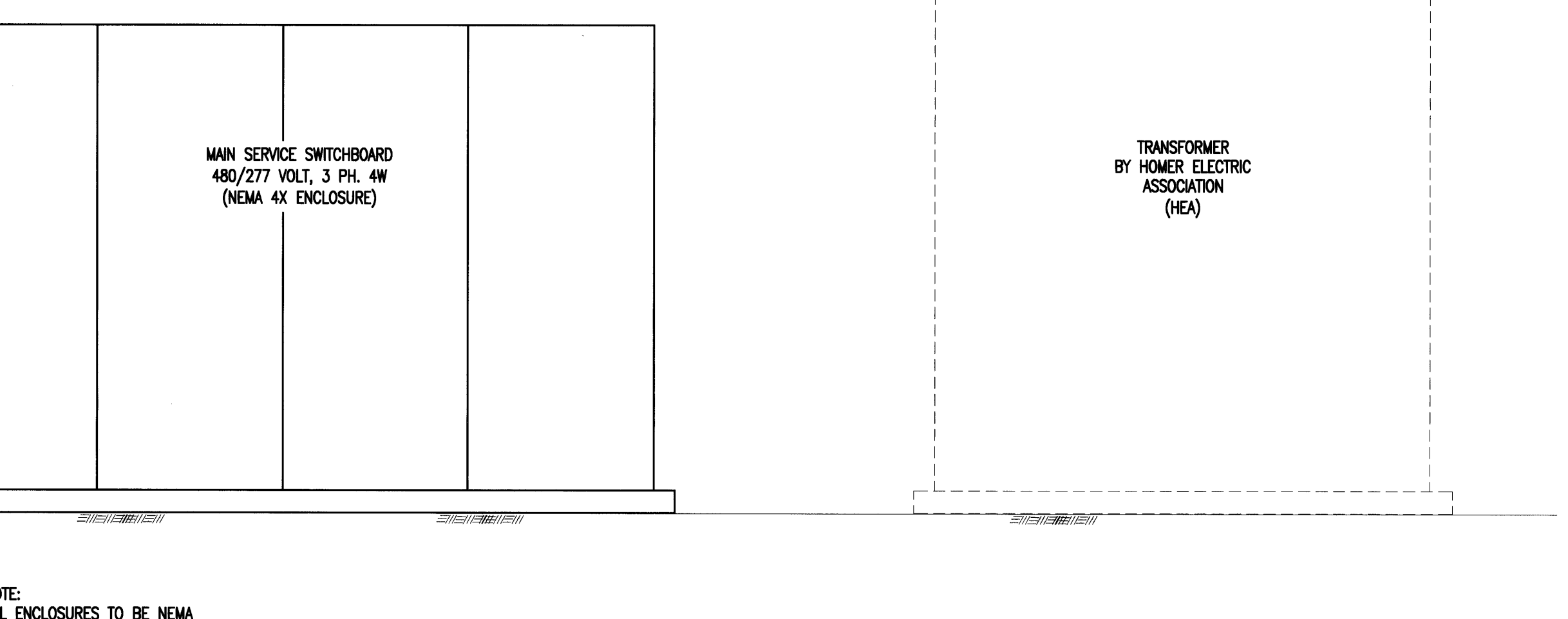
**B DOCK SHORE POWER SECTION**  
E2 E3 1/4"=1'-0"



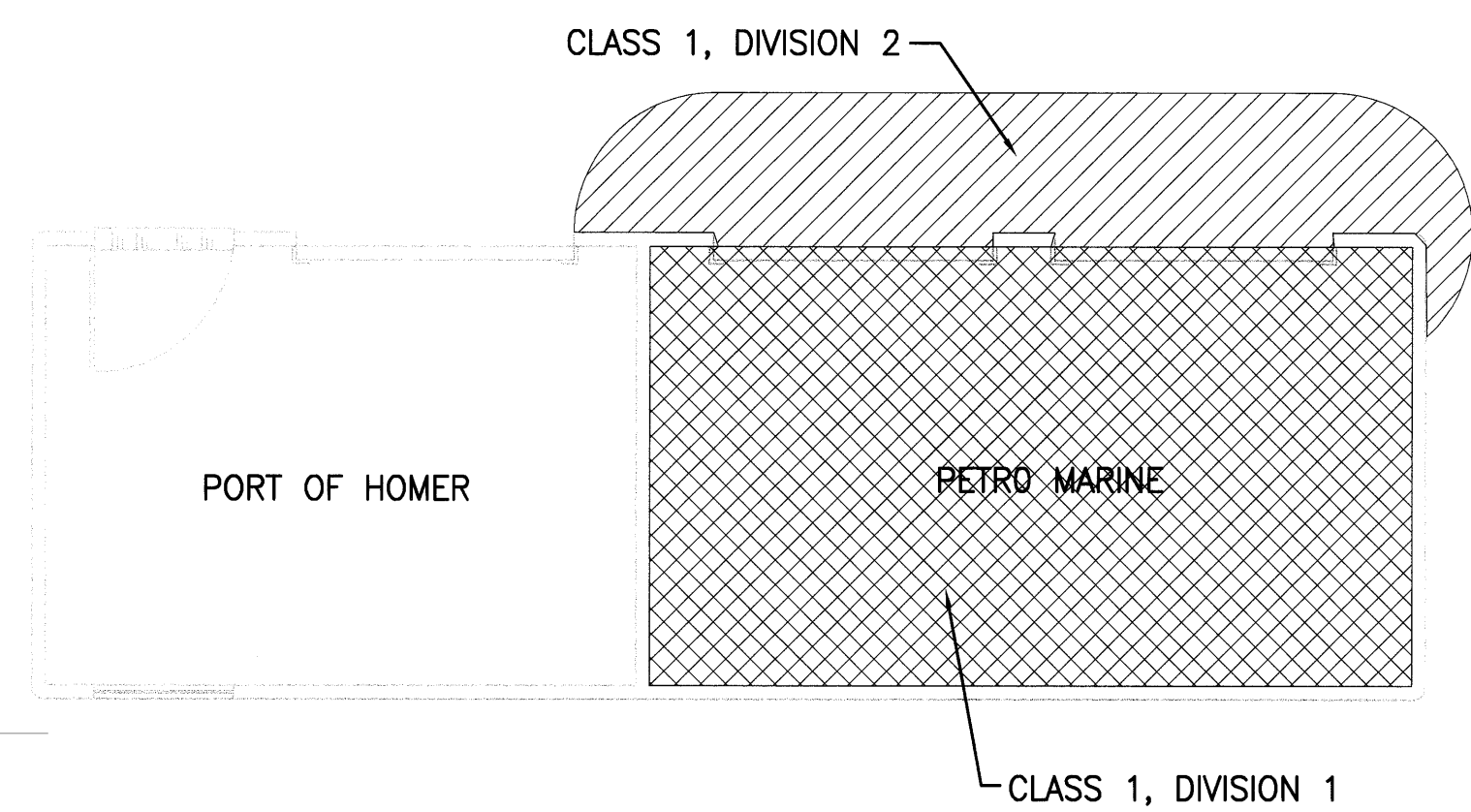
**A SHORE EQUIPMENT ELEVATION**  
E2 E3 1/2"=1'-0"



**2 TYP. HOUSEKEEPING PAD DETAIL**  
E2 E3 NO SCALE

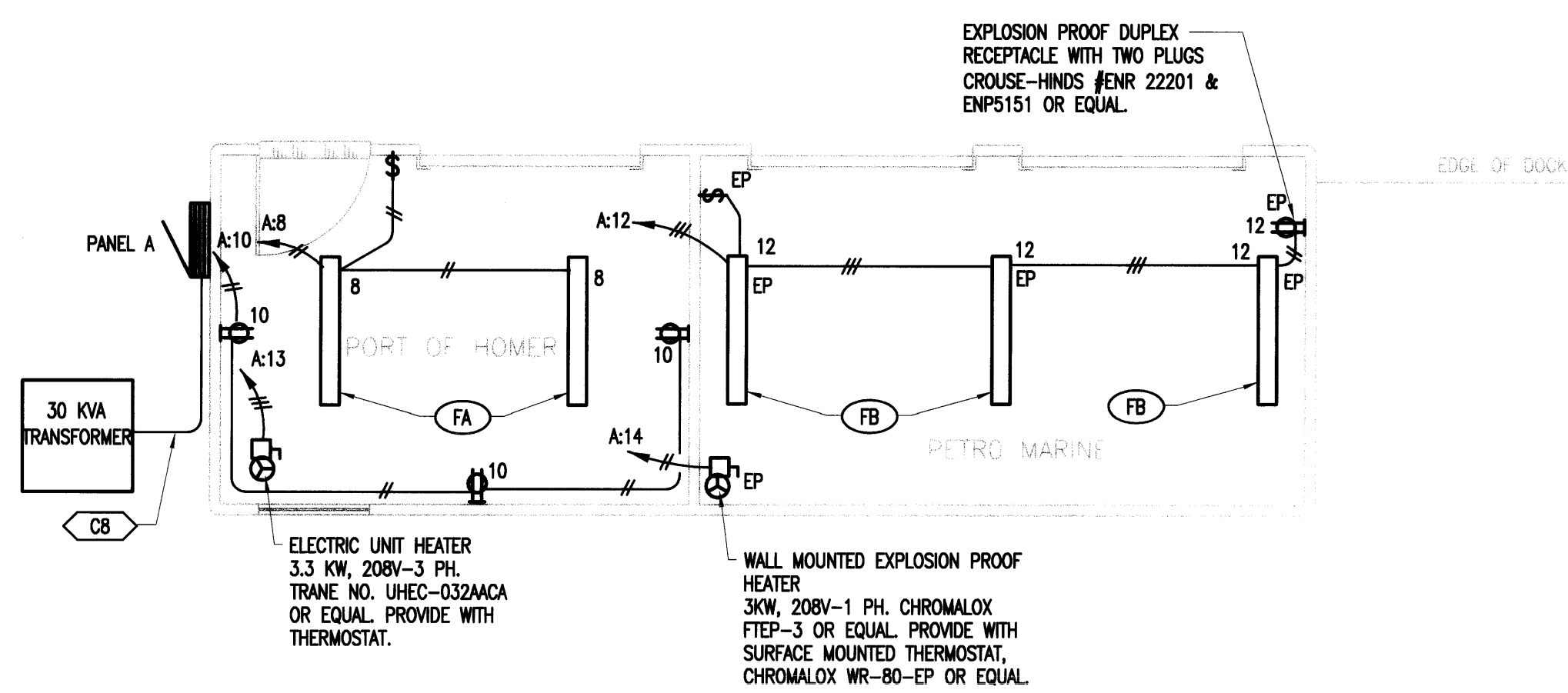


**C TRESTLE CONDUIT LAYOUT - TYPICAL**  
E2 E3 1/4"=1'-0"

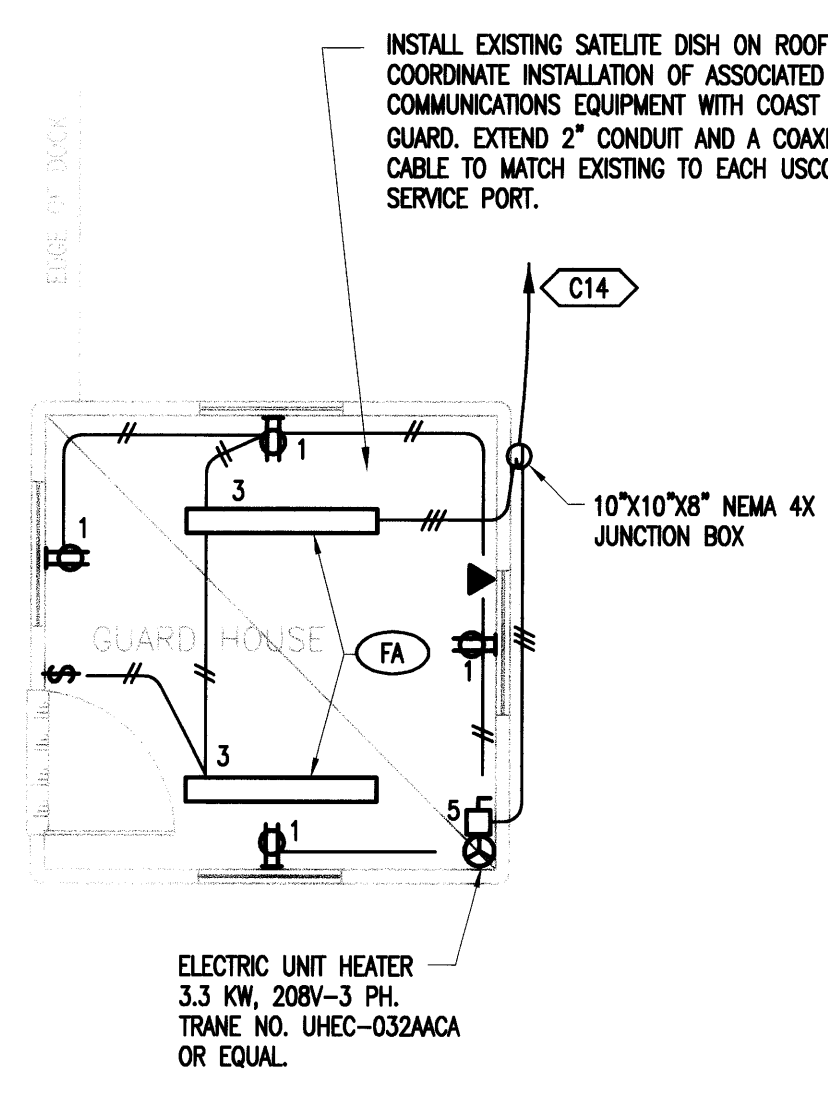


**PUMP HOUSE - AREA CLASSIFICATION**  
1/4"=1'-0"

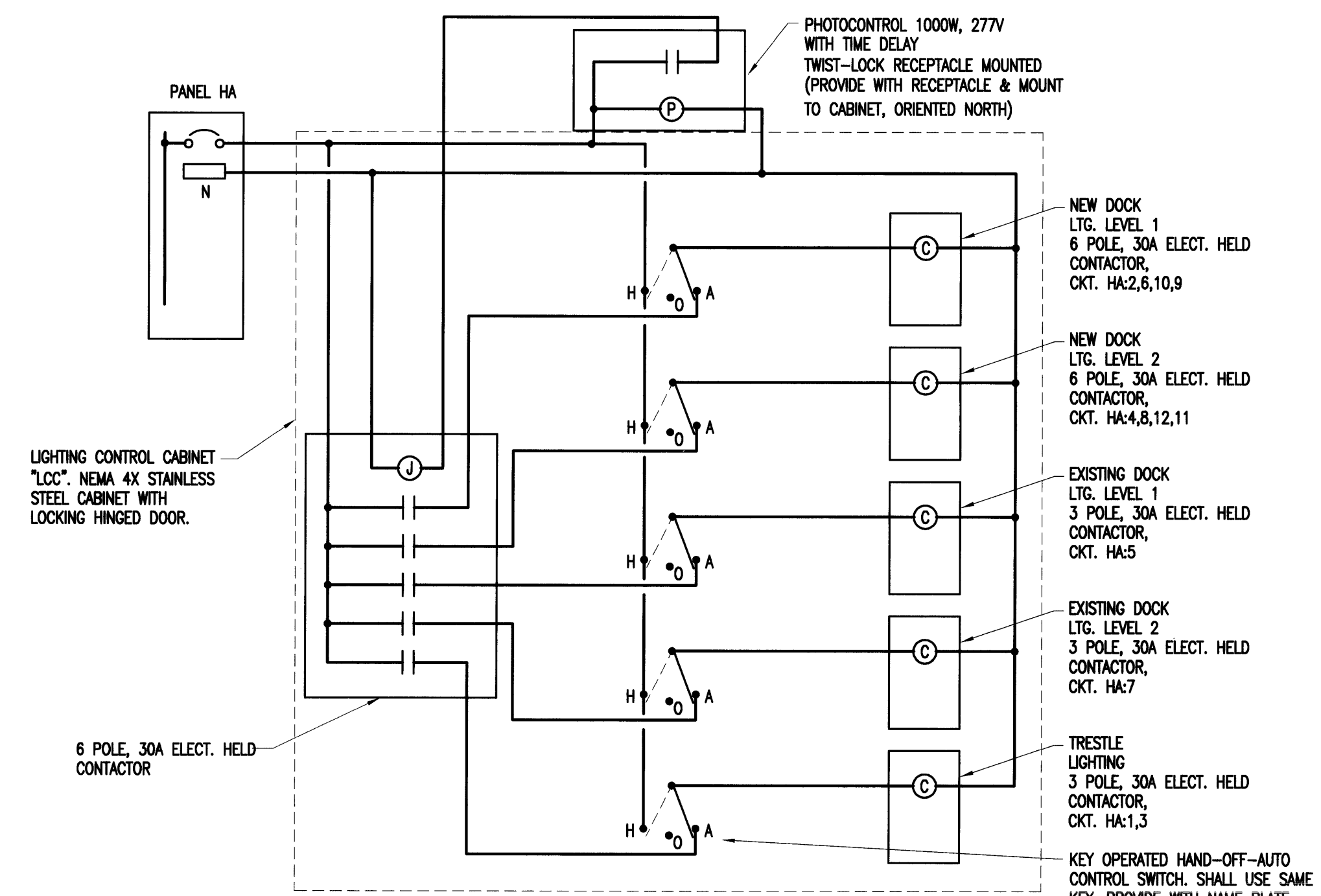
- AREA CLASSIFICATION PLAN NOTES:**
1. ALL ELECTRICAL EQUIPMENT INSTALLED WITHIN THE HAZARDOUS AREA SHALL BE SPECIFICALLY APPROVED BY UL OR FACTORY MUTAL FOR THE HAZARDOUS AREA CLASSIFICATION ON THE PLAN.
  2. EACH CONDUIT ORIGINATING IN OR PASSING THROUGH OR UNDER A HAZARDOUS AREA SHALL HAVE EXPLOSION PROOF SEALING FITTINGS INSTALLED IN THE INTERIOR OF THE NON-HAZARDOUS ROOM PER RES-501-S.
  3. ALL METALLIC CONDUITS THAT ARE NOT ATTACHED TO A GROUNDED PANEL OR ENCLOSURE SHALL BE GROUNDED USING A GROUNDED BUSHING.
  4. CONDUIT AND CABLE SCHEDULE IS LOCATED ON SHEET E5.



**3 PUMP HOUSE PLAN**  
E2 E3 1/4"=1'-0"



**4 GUARD HOUSE PLAN**  
E2 E3 1/4"=1'-0"



**5 LIGHTING CONTROL DIAGRAM**  
E2 E3 NO SCALE

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DATE: 03/11/03

**COFFMAN**  
ENGINEERS  
1000 F Street  
Nashville, TN 37203  
901-276-1666 Fax 901-276-5042

DESIGNED	MAG
DRAWN	MAG
CHECKED	DJI
DATE	JAN. 2001
AS-BUILT	
SCALE	
NO.	
REV.	
FIELD BOOKS	
NO.	8239.0

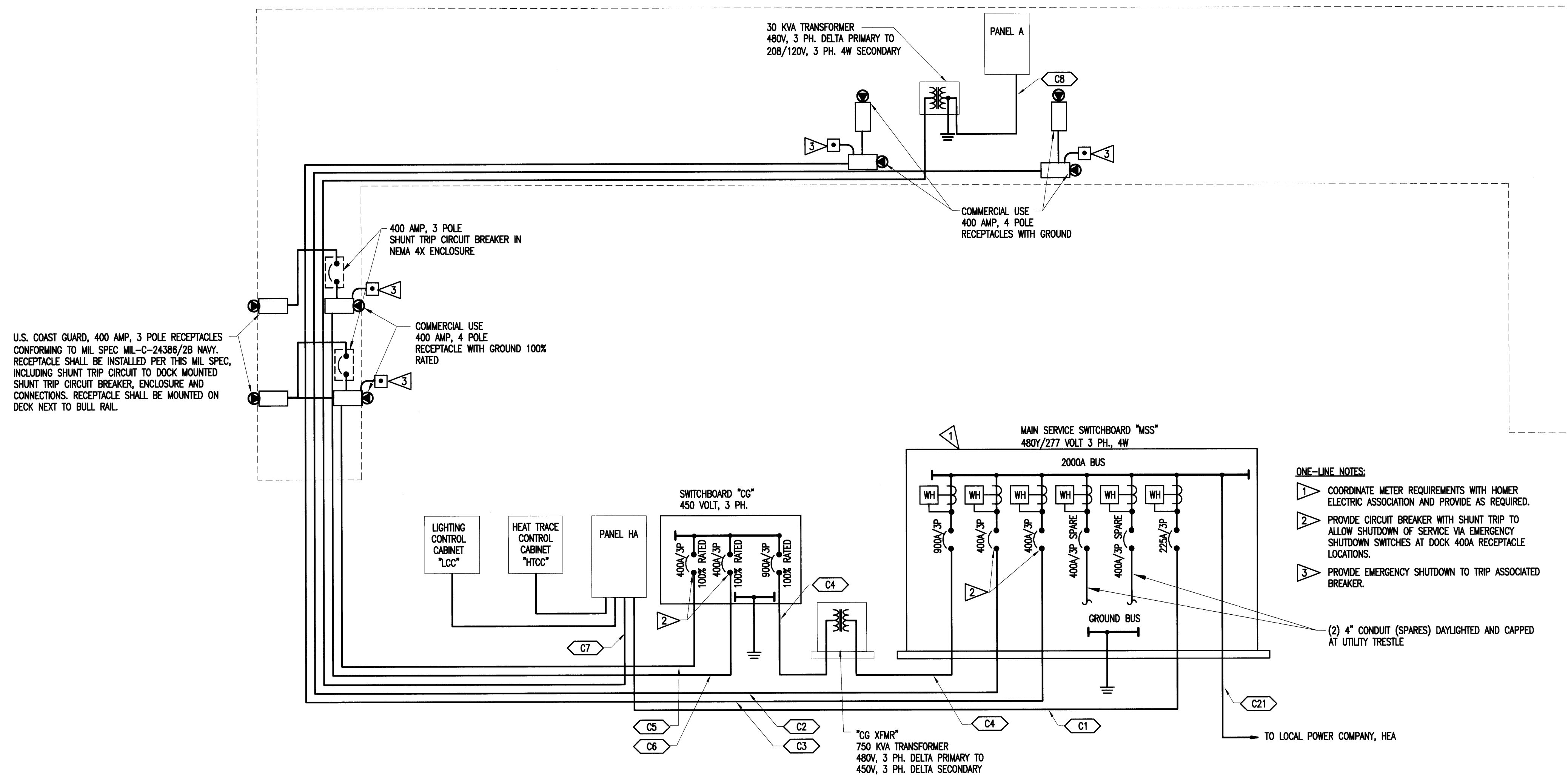
REVISION	BY	DATE

**COFFMAN**  
ENGINEERS  
1000 F Street  
Nashville, TN 37203  
901-276-1666 Fax 901-276-5042

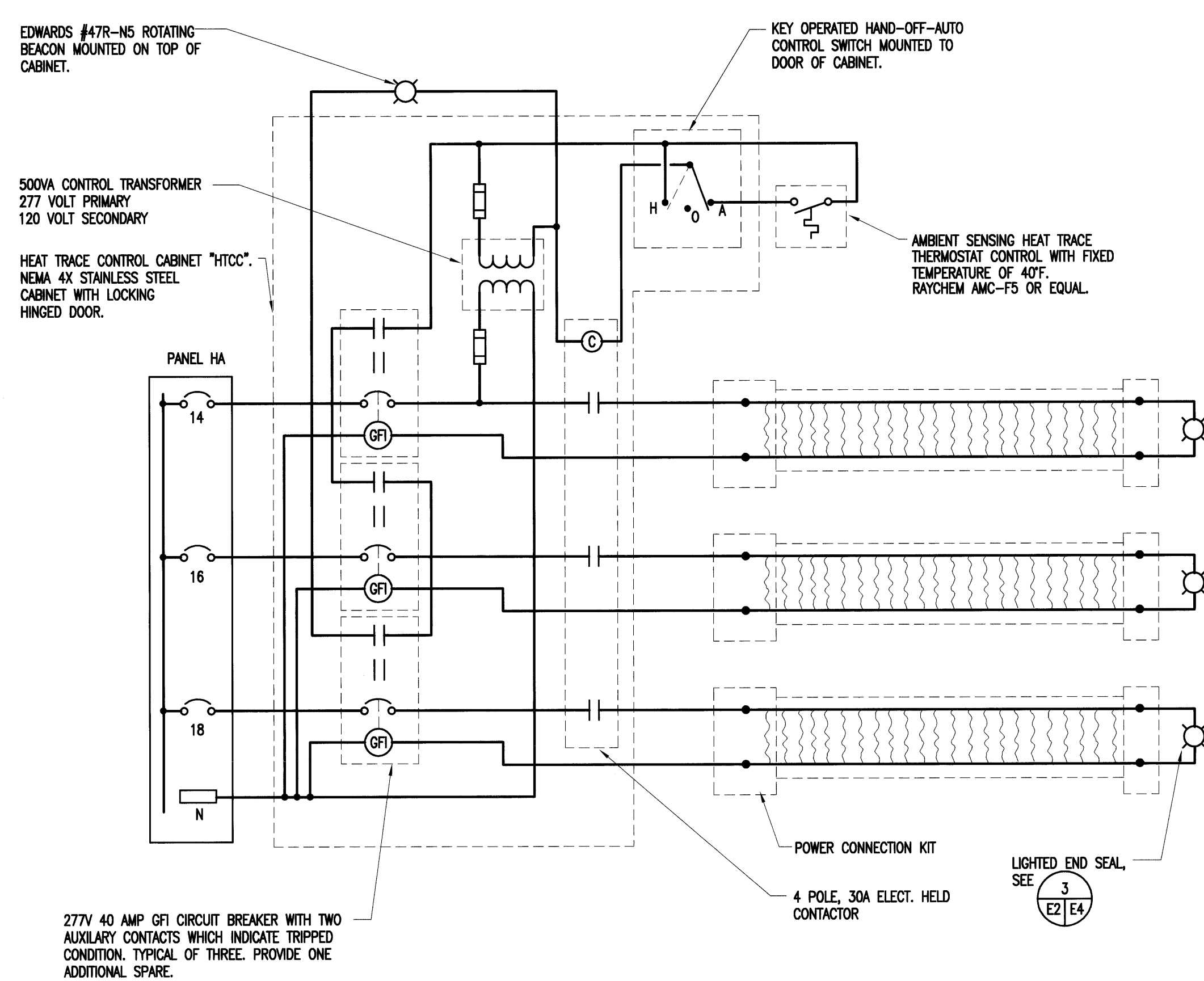
CITY OF HOMER  
**DETAILS & DIAGRAMS**  
KACHUK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
**E3** OF **47**  
FILE NO.  
98435E3

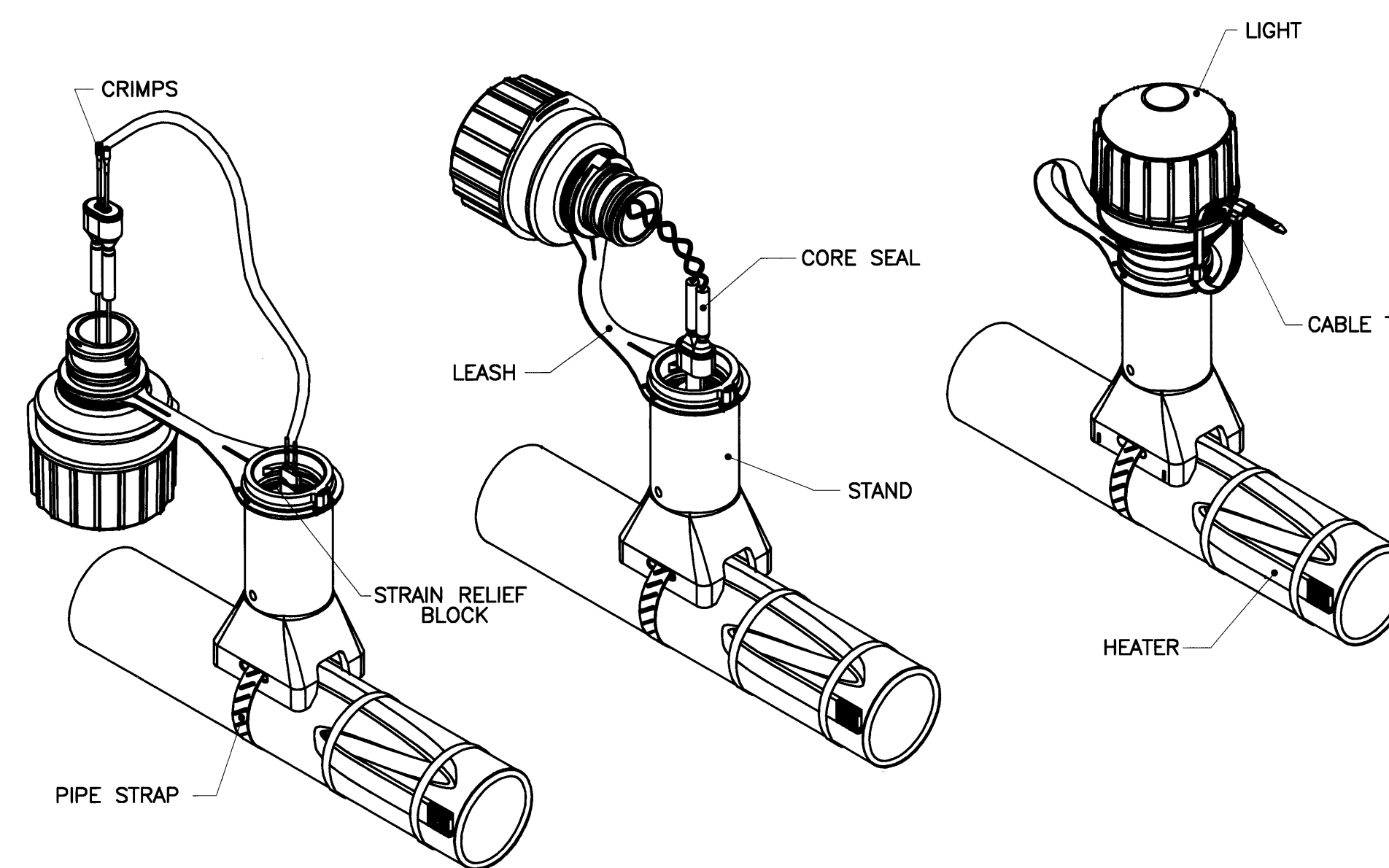




**1 ONE-LINE DIAGRAM**  
E4 E4 NO SCALE



**2 HEAT TRACE CONTROL DIAGRAM**  
E2 E4 NO SCALE



**3 HEAT TRACE - LIGHTED END SEAL**  
E2 E4 NO SCALE

FIXTURE I.D.	DESCRIPTION	LAMP/BALLAST	MOUNTING & REMARKS MANUFACTURE/CATALOG NO.
(HA)	POLE MOUNTED TWIN LAMP, RECTILINEAR, HD FLOODLIGHT, HEAVY-GAUGE ALUMINUM, INTERNALLY WELDED HOUSING WITH HINGED LENS FRAME. FLAT, THERMAL & SHOCK RESISTANT GLASS LENS. LENS AND FRAME TO BE SEALED WITH SILICONE GASKET, ANODIZED AND SEALED ALUMINUM REFLECTOR WITH TWIN PORCELAIN LAMP HOLDERS AND INSULATED LAMP SUPPORTS. EACH LAMP CAN BE CONTROLLED SEPARATELY TO ALLOW TWO LEVELS OF ILLUMINATION. DARK BRONZE FINISH TO MEET OR EXCEED ALL ANMA REQ. FOR 1000 HOUR SALT SPRAY EXPOSURE. SWIVEL KNUCKLE, BRACKET MOUNTED TO 50" (NOMINAL) POLE. PROVIDE POLE WITH COA, 125V, W/ Q2 DUPLEX RECEPTACLE MOUNTED FLUSH IN POLE AT +48". PROVIDE POLE WITH HIGH MAST LATCHING LOWERING DEVICE SYSTEM.	(2)1100 WATT HPS 277V BALLAST RATED FOR -20° F	QUALITY LIGHTING U-36-K-P-HPS-1000-277 OR APPROVED EQUAL. 50" GALV. STEEL POLE, VALMONT NO. HD05500-P4 WITH HOLDPLANE LOWERING DEVICE NO. L05-4-D4-4-S0FT-S. REFER TO STRUCTURAL DWGS. FOR POLE BASE MOUNTING.
(HB)	POLE MOUNTED HD, SQUARE LIGHTING FIXTURE WITH SHARP CUTOFF OPTICS, HEAVY GAUGE FORMED, INTERNALLY WELDED ALUMINUM HOUSING. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL. DARK BRONZE FINISH TO MEET OR EXCEED ALL ANMA REQ. FOR 1000 HOUR SALT SPRAY EXPOSURE.	150 WATT HPS 277V BALLAST RATED FOR -20° F	QUALITY LIGHTING SH-15-3-HPS150-277-08 WITH RES-12-10-11-4-DW10 GALV. 12" STEEL POLE OR APPROVED EQUAL.
(FA)	CEILING SURFACE MOUNTED ENCLOSED FLUORESCENT FIXTURE. 1/2" X 30" L. UL LISTED FOR DAMP LOCATIONS.	(3) F3278/3500W/70CRI (MIN) 2850 INITIAL LUMENS HPF, ELECTRONIC BALLAST LESS THAN 100 THD COLD-WEATHER, 0° F	LITHONIA NO. SES-3-32-120-0W-RF1 OR APPROVED EQUAL.
(FB)	CEILING MOUNTED HAZARDOUS LOCATION FLUORESCENT FIXTURE. 11" X 52" L. UL LISTED 844 FOR HAZARDOUS LOCATIONS.	(2) F3278/3500W/70CRI (MIN) 2850 INITIAL LUMENS HPF, ELECTRONIC BALLAST LESS THAN 100 THD COLD-WEATHER, 0° F	HUBBELL HLF-2-R-1-E OR APPROVED EQUAL.

PANEL SCHEDULE		PANEL: HA								
A. I. C. RATING: 10000 LOCATION: SHORE RACK MOUNTING: RACK MOUNTED		VOLTS: 480 277 BUS AMPS: 225 MAIN BRK: 225								
CIRCUIT DESCRIPTION	TYPE	VA	AMPS	BRKR	PHASE	LOAD		CIRCUIT DESCRIPTION		
						VA	TYPE			
DOCK LITS, WEST	E	360	20/1	1	A	2	20/1	3300	E	DOCK FLOODLIGHT
DOCK LITS, EAST	E	720	20/1	3	B	4	20/1	3300	E	DOCK FLOODLIGHT
DOCK FLOODLIGHT	E	3300	20/1	5	C	6	20/1	3300	E	DOCK FLOODLIGHT
DOCK FLOODLIGHT	E	3300	20/1	7	A	8	20/1	3300	E	DOCK FLOODLIGHT
DOCK FLOODLIGHT	E	3300	20/1	9	B	10	20/1	3300	E	DOCK FLOODLIGHT
DOCK FLOODLIGHT	E	3300	20/1	11	C	12	20/1	3300	E	DOCK FLOODLIGHT
SPARE			20/1	13	A	14	40/1	1780	H	HEAT TRACE - WATER EAST
SPARE			20/1	15	B	16	40/1	1780	H	HEAT TRACE - WATER WEST
SPARE			20/1	17	C	18	40/1	1594	H	HEAT TRACE - SEWER WEST
SPARE			20/1	19	A	20	20/1			SPARE
SPARE			20/1	21	B	22	20/1			SPARE
SPARE			20/1	23	C	24	20/1			SPARE
SPARE			20/1	25	A	26	20/1			SPARE
SPARE			20/1	27	B	28	20/1			SPARE
SPARE			20/1	29	C	30	20/1			SPARE
SPACE				31	A	32				SPACE
SPACE				33	B	34				SPACE
SPACE				35	C	36				SPACE
SPACE				37	A	38	60/3	5700	X	PANEL A TRANSFORMER
SPACE				39	B	40	---	5700	X	---
SPACE				41	C	42	---	5700	X	---

PANEL SCHEDULE		PANEL: A								
A. I. C. RATING: 10000 LOCATION: NEAR MECH. BLDG. MOUNTING: RACK MOUNTED		VOLTS: 208 120 BUS AMPS: 100 MAIN BRK: 100								
CIRCUIT DESCRIPTION	TYPE	VA	AMPS	BRKR	PHASE	LOAD		CIRCUIT DESCRIPTION		
						VA	TYPE			
GUARD HOUSE RECS.	R	720	20/1	1	A	2	20/1	1050	E	DOCK MARKER LIGHTS
GUARD HOUSE LIGHTS	I	128	20/1	3	B	4	20/1	360	R	DOCK POLE WTD RECS.
GUARD HOUSE HEATER	M	1100	20/3	5	C	6	20/1	180	R	DOCK POLE WTD RECS.
---	M	1100	---	7	A	8	20/1	128	I	PUMP HOUSE LITS
---	M	1100	---	9	B	10	20/1	540	R	PUMP HOUSE RECS.
SPARE			20/1	11	C	12	20/1	372	I	PUMP HOUSE LITS, REC.
PUMP HOUSE HEATER	M	1100	20/3	13	A	14	20/2	1500	M	PUMP HOUSE HEATER
---	M	1100	---	15	B	16	---	1500	M	---
---	M	1100	---	17	C	18	20/1			SPARE
SPARE			20/1	19	A	20	20/1	1000	H	HEATED VALVE BOX
SPARE			20/1	21	B	22	20/1	1000	H	HEATED VALVE BOX
SPARE			20/1	23	C	24	20/1	1000	H	HEATED VALVE BOX
SPARE			20/1	25	A	26	20/1	1000	H	HEATED VALVE BOX
SPARE			20/1	27	B	28	20/1			SPARE
SPARE			20/1	29	C	30	20/1			SPARE

TAG	CONDUIT SIZE	CONDUCTORS	CIRCUIT NO.	DESCRIPTION
C1	1 1/2"	4#1/0 & 1# GND.	NA	FROM MSS TO PANEL HA
C2	4"	4-#500kcmil & 1#2 GND. & 2#10	NA	FROM MSS TO COMMERCIAL USE 400A REC.
C3	4"	4-#500kcmil & 1#2 GND. & 2#10	NA	FROM MSS TO COMMERCIAL USE 400A REC.
C4	(2) 3 1/2"	(4 SETS) 3#250kcmil & 1#3/0 GND.	NA	FROM MSS TO CG TRANSFORMER
C5	4"	3-#500kcmil & 1#2 GND. & 2#10	NA	FROM SWITCHBOARD CG TO USOC 400A REC.
C6	4"	3-#500kcmil & 1#2 GND. & 2#10	NA	FROM SWITCHBOARD CG TO USOC 400A REC.
C7	1 1/2"	3#6 & 1#8 GND.	NA	FROM PANEL HA TO 30 KVA TRANSFORMER (PUMP HOUSE)
C8	1 1/2"	4#2 & 1#8 GND.	NA	FROM 30 KVA TRANSFORMER TO PANEL A
C9	2"	FUTURE	NA	FROM TELEPHONE SERVICE PEDestal TO USOC SERVICE PT.
C10	2"	FUTURE	NA	FROM TELEPHONE SERVICE PEDestal TO COMMERCIAL SERVICE PT.
C11A	1 1/2"	6#6 & 1#10 GND.	HA2,4,5,7	FROM TYPE HA DOCK LITS. (50' POLES) TO PANEL HA VA LCC
C11B	1 1/2"	6#6, 3#8 & 1#10 GND.	HA2,4,6,8,9	FROM TYPE HA DOCK LITS. (50' POLES) TO PANEL HA VA LCC
C11C	1 1/2"	6#6, 3#8 & 1#10 GND.	HA2,4,6,8,10,12,5,7	FROM TYPE HA DOCK LITS. (50' POLES) TO PANEL HA VA LCC
C11D	2"	6#6, 3#8 & 1#10 GND.	HA2,4,6,8,10,12,5,9,11	FROM TYPE HA DOCK LITS. (50' POLES) TO PANEL HA VA LCC
C12	3/4"	2#10 & 1#12 GND.	HA1	FROM (2) TYPE HB DOCK LITS. (WEST) TO PANEL HA VA LCC
C13	3/4"	2#10 & 1#12 GND.	HA3	FROM (4) TYPE HB DOCK LITS. (EAST) TO PANEL HA VA LCC
C14	1"	7#10 & 1#12 GND.	HA1,3,5	FROM PANEL A (PUMP HOUSE) TO GUARD HOUSE
C15	3/4"	2#10 & 1#12 GND.	A2	DOCK MARKER LITS TO PANEL A
C16A	3/4"	2#10 & 1#12 GND.	A4	FLUSH POLE MOUNTED RECEPTACLES TO PANEL A
C16B	3/4"	2#10 & 1#12 GND.	A6	FLUSH POLE MOUNTED RECEPTACLE TO PANEL A
C17A	3/4"	2#10 & 1#12 GND.	A20	FROM HEATED VALVE BOX TO PANEL A
C17B	3/4"	3#10 & 1#12 GND.	A20,22	FROM HEATED VALVE BOXES TO PANEL A
C17C	3/4"	4#10 & 1#12 GND.	A20,22,24	FROM HEATED VALVE BOXES TO PANEL A
C17D	3/4"	2#10 & 1#12 GND.	A26	FROM HEATED VALVE BOX TO PANEL A
C18	3/4"	2#8 & 1#10 GND.	HA18	SANITARY SEWER HEAT TRACE POWER TO PANEL HA VA HTCC
C19	3/4"	2#8 & 1#10 GND.	HA16	WATER LINE HEAT TRACE POWER TO PANEL HA VA HTCC
C20	3/4"	2#8 & 1#10 GND.	HA14	WATER LINE HEAT TRACE POWER TO PANEL HA VA HTCC
C21	(0) 4"	(6 SETS) 4#500kcmil & 1#3/0 GND.	NA	FROM MSS TO LOCAL POWER COMPANY

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DATE: 03/11/03



DESIGNED	MAG
DRAWN	MAG
CHECKED	DJI
DATE	JUN. 2001
SCALE	AS SHOWN
JOB NO.	98435E4
REV.	NO.
BY	
DATE	

FIELD BOOKS	NO.
DESIGN	NO.
AS-BUILT	NO.
SCALE	NO.
JOB NO.	NO.
REV.	NO.
DATE	NO.

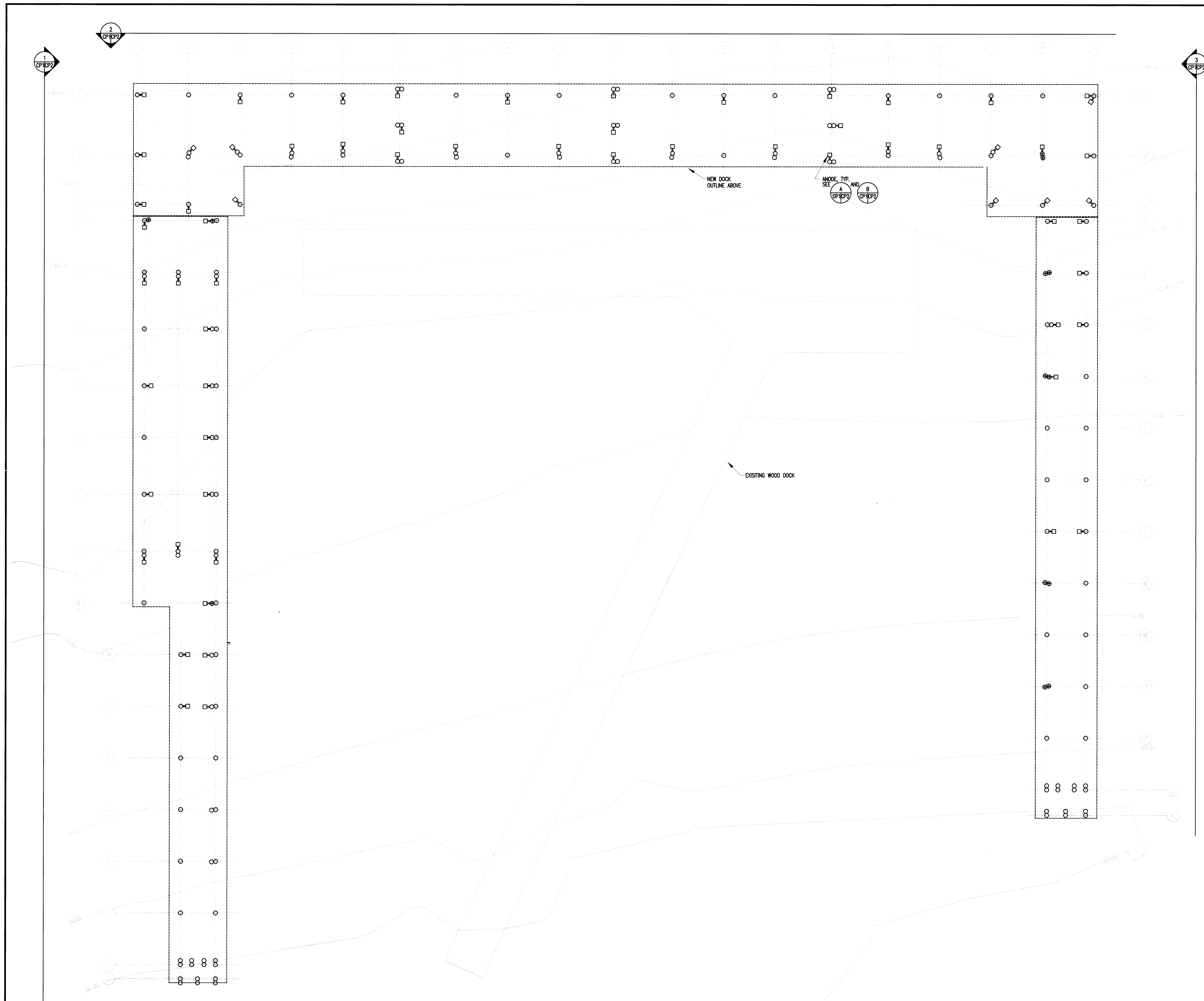
CITY OF HOMER  
DIAGRAMS AND  
SCHEDULES

KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

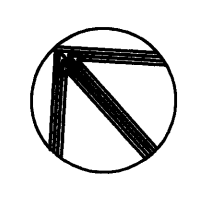
SHEET  
E4 of 47

FILE NO.  
98435E4





**A CATHODIC PROTECTION SITE PLAN**  
 CP1 CP1 1"=20'-0"



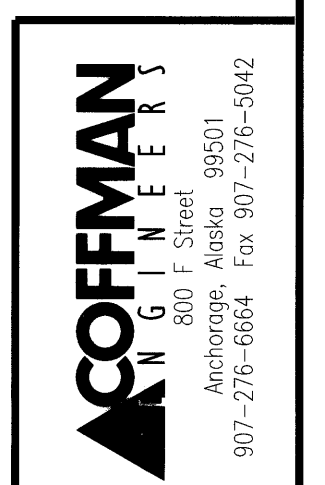
DOCK ANODE SCHEDULE				
BENT NUMBER SEE A/CP1 FOR ANODE LOCATION & ORIENTATION	APPROX. WATER DEPTH (FEET) MHHW TO MUDLINE	NUMBER PILES	NUMBER OF ANODES PER BENT	BOTTOM OF ANODE ELEV. (FEET) MLW = 0
D		4	2	-20
E		6	3	-15
G		3	1	-20
H		3	2	-10
I		3	1	-8
K		3	2	-5
L		6	3	-3
M		3	1	2
N		3	2	6
O		3	2	6
P		2		10
Q		3		
R		3		
S		2		
T		8		
1		3	3	-15
2		4	2	-20
3		4	3	-8
4		3	1	-25
5		3	2	-20
6		6	3	-15
7		3	1	-10
8		2	1	-25
9		3	1	-20
10		6	3	-10
11		3	1	-20
12		2	1	-25
13		3	1	-10
14		6	3	-10
15		3	2	-20
16		3	1	-25
17		4	3	-10
18		4	2	-20
19		3	4	-20
D'		2	2	-10
E'		3	1	-13
G'		3	2	-5
H'		3	1	1
I'		2		
K'		2		
L'		2	2	8
M'		3		
N'		2		
O'		3		
P'		2		
Q'		8		
NUMBER OF DOCK ANODES >>		65		

DOLPHIN ANODE SCHEDULE	
14 DOLPHIN ANODES REQUIRED (ONE ON EACH PILE) ALL AT ELEVATION -10 ORIENT ANODES ON DOLPHINS TO CENTER OF PILE PATTERN	
<b>TOTAL ANODES:</b>	<b>79</b>

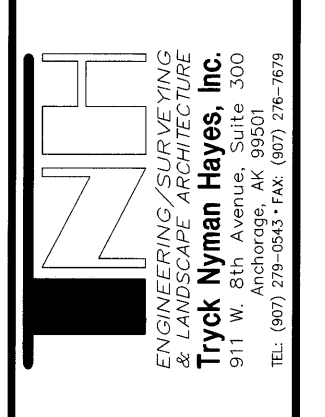
CATHODIC PROTECTION LEGEND	
○	ANODE - PLAN
□	ANODE - PROFILE

THIS RECORD DOCUMENT HAS BEEN  
 REVISION TO INCLUDE FIELD MARKUPS  
 PROVIDED BY THE CONTRACTOR.  
 COFFMAN ENGINEERS HAS NOT FIELD  
 VERIFIED THIS INFORMATION AND  
 DOES NOT CERTIFY THE COMPLETENESS  
 AND/OR ACCURACY OF THIS DOCUMENT.

DATE: 03/11/03



DESIGNED: CDS  
 DRAWN: RJ  
 CHECKED: CDS  
 DATE: MAR 9, 2001  
 SCALE: 1"=20'-0"  
 SHEET NO.: 47  
 OF NO.: 8259.D

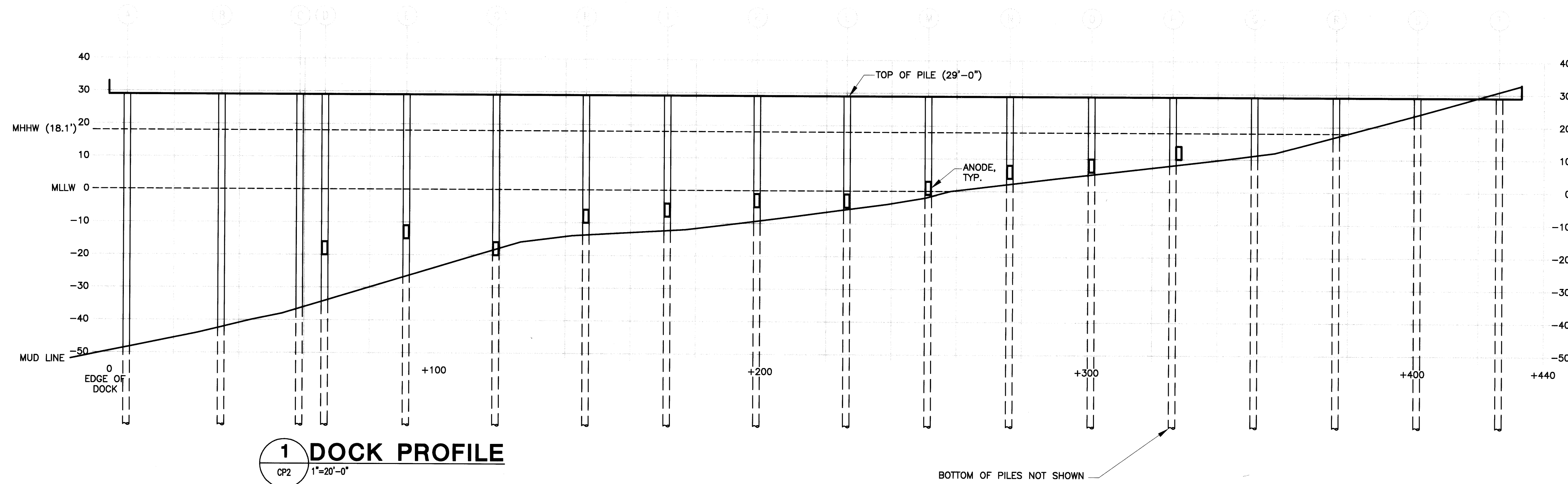


CITY OF HOMER  
**CATHODIC PROTECTION  
 SITE PLAN**  
 KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

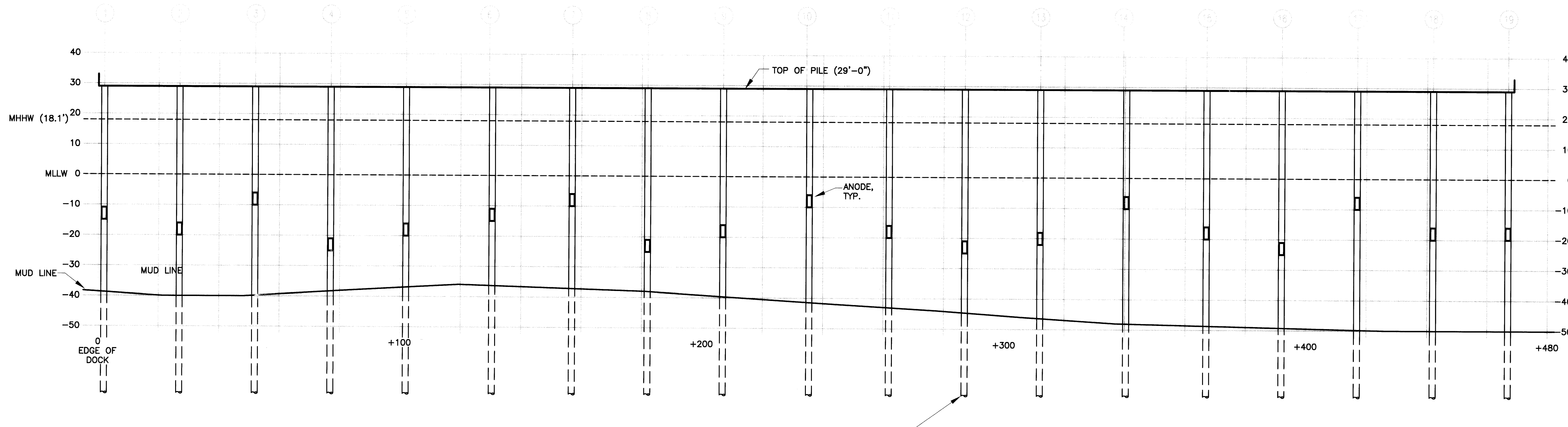
SHEET  
**CP1** / 47  
 FILE NO.  
 98435CP1.DWG

PLOT SCALE: 1:1 PLOT DATE: PLOT MARK

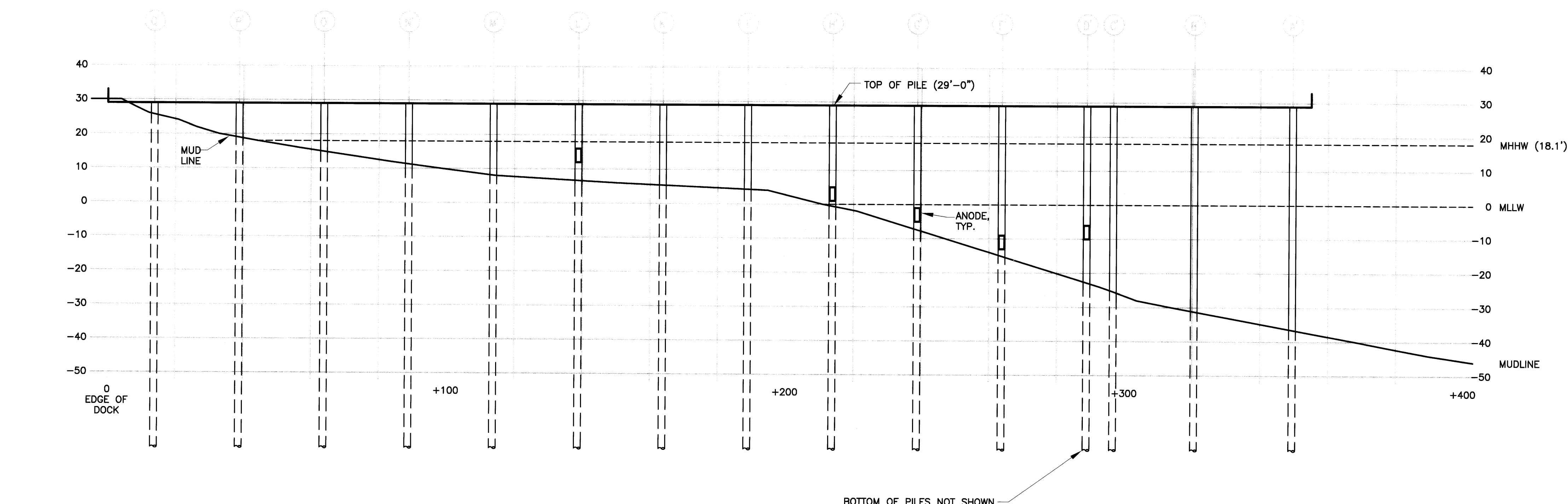




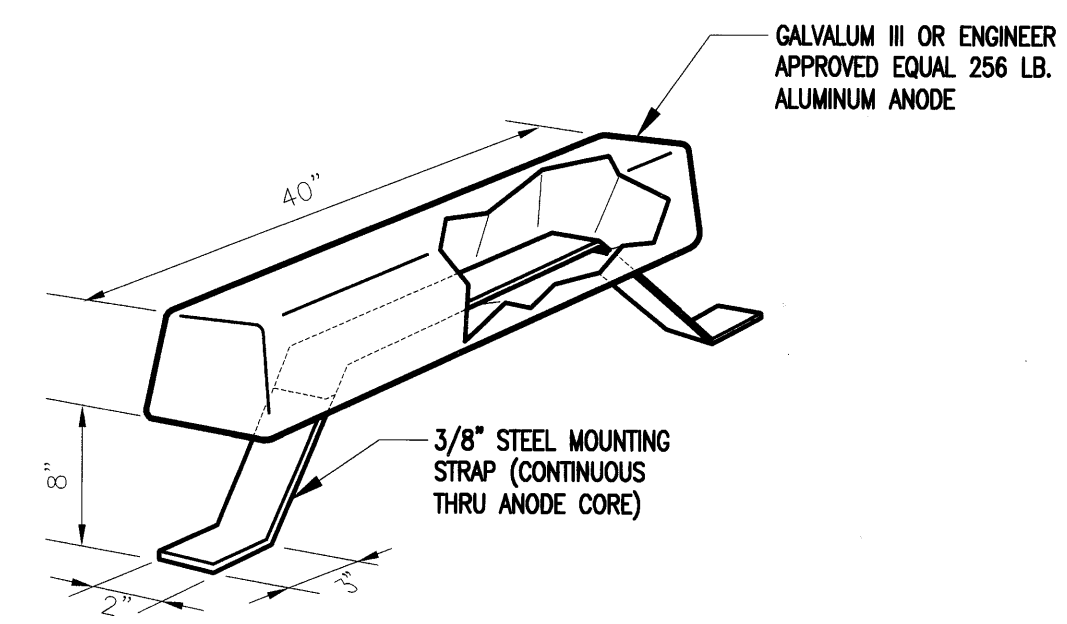
**1 DOCK PROFILE**  
CP2 CP2 N.T.S.



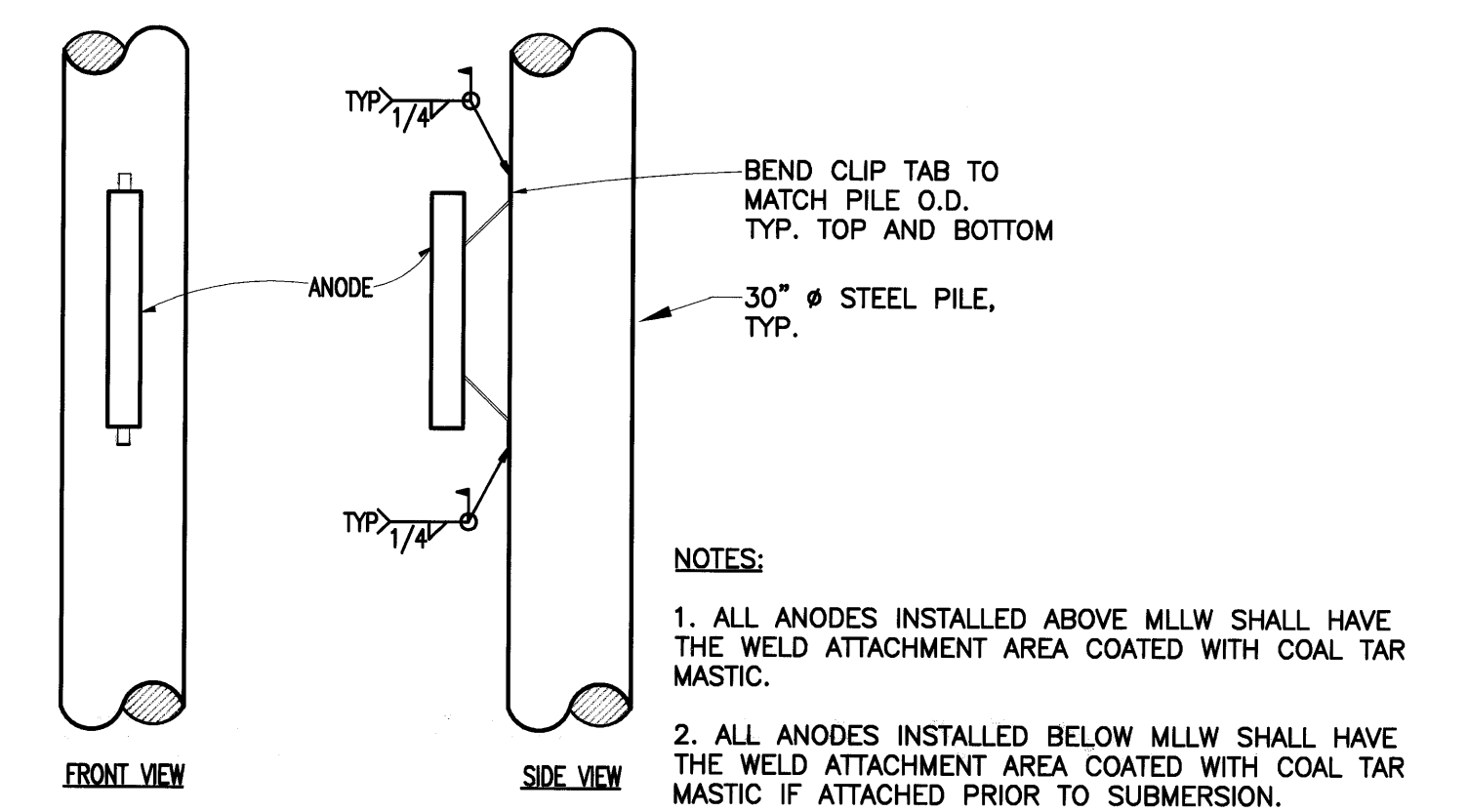
**2 DOCK PROFILE**  
CP2 CP2 N.T.S.



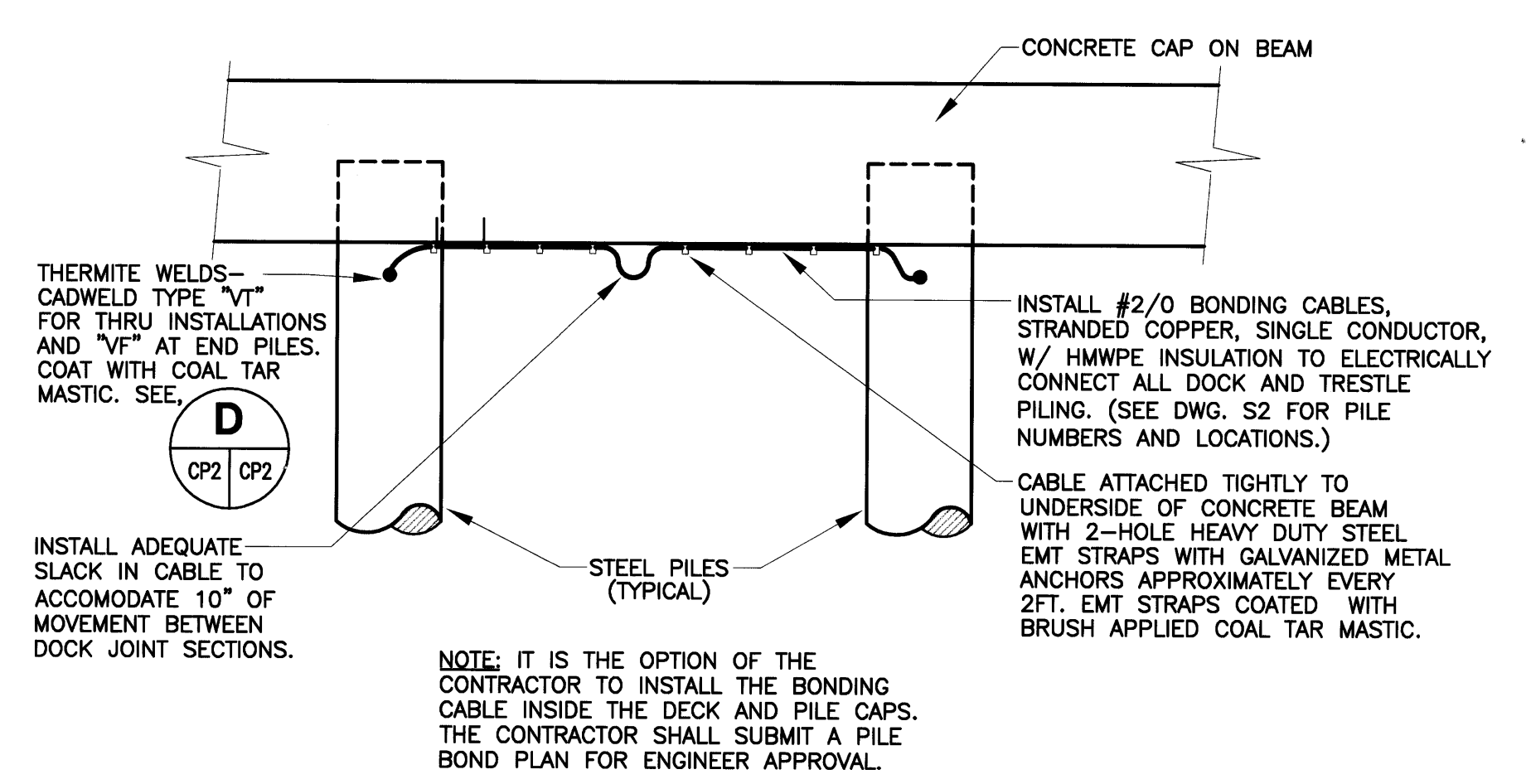
**3 DOCK PROFILE**  
CP2 CP2 N.T.S.



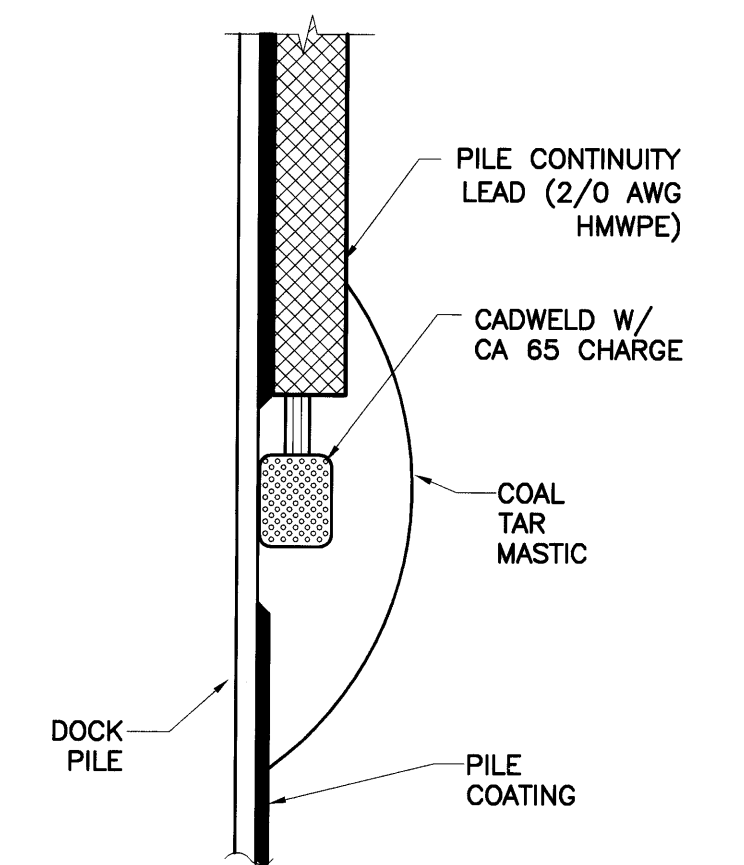
**A ANODE DETAIL**  
CP1 CP2 N.T.S.



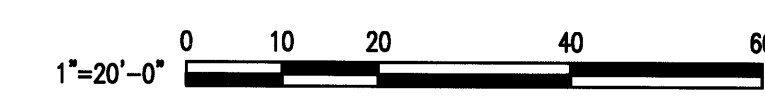
**B ANODE ATTACHMENT DETAIL**  
CP1 CP2 N.T.S.



**C ELECTRICAL CONTINUITY PILE TO PILE BONDING**  
CP1 CP2 N.T.S.



**D EXOTHERMIC WELD DETAIL**  
CP2 CP2 N.T.S.



02132 DATE: 03/11/03

**COFFMAN**  
ENGINEERING  
INC.

DESIGNED: CDS  
DRAWN: RJ  
CHECKED: CDS  
DATE: MAR 9, 2001  
SCALE: 3/32"=1'-0"  
SHEET NO.: 20  
JOB NO.: B239.0

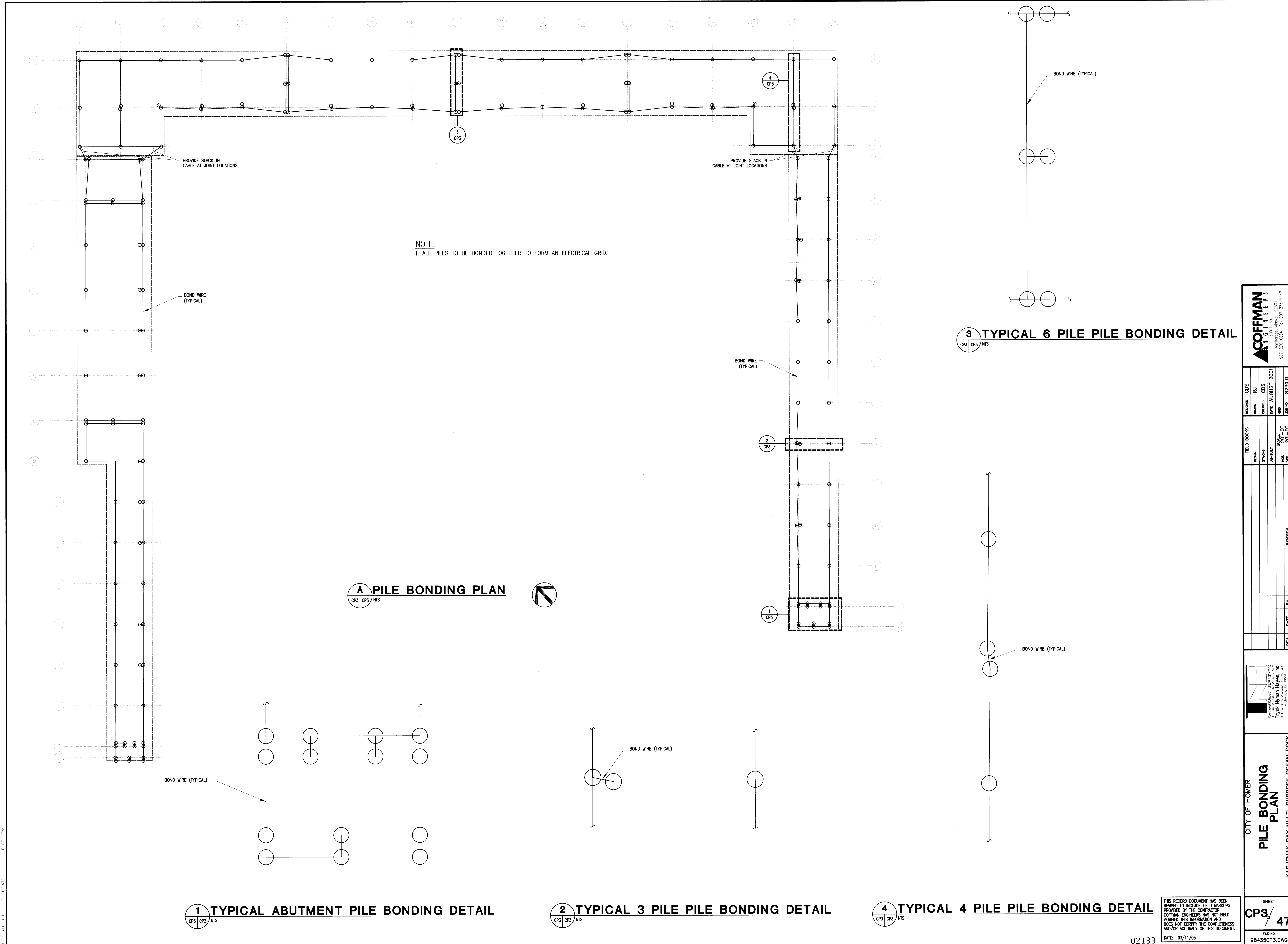
REV.	DATE	BY	REVISION

City of Homer  
Tyvek Nymark Hayes, Inc.  
311 W. 4th Avenue, Suite 300  
Homer, AK 99603  
Tel: 907-226-2600 Fax: 907-226-2600

**CATHODIC PROTECTION ELEVATIONS**  
KACHEMAK BAY, MULTI-PURPOSE OCEAN DOCK

SHEET  
CP2 / 47  
FILE NO.  
98435CP2.DWG





**A PILE BONDING PLAN**  
CP3 CP3 NTS

**1 TYPICAL ABUTMENT PILE BONDING DETAIL**  
CP3 CP3 NTS

**2 TYPICAL 3 PILE PILE BONDING DETAIL**  
CP3 CP3 NTS

**4 TYPICAL 4 PILE PILE BONDING DETAIL**  
CP3 CP3 NTS

**3 TYPICAL 6 PILE PILE BONDING DETAIL**  
CP3 CP3 NTS

PROVIDE SLACK IN CABLE AT JOINT LOCATIONS

PROVIDE SLACK IN CABLE AT JOINT LOCATIONS

**NOTE:**  
1. ALL PILES TO BE BONDED TOGETHER TO FORM AN ELECTRICAL GRID.

BOND WIRE (TYPICAL)

BOND WIRE (TYPICAL)

BOND WIRE (TYPICAL)

BOND WIRE (TYPICAL)

PLOT SCALE: 1" = 20'-0" PLOT DATE: -

THIS RECORD DOCUMENT HAS BEEN REVISED TO INCLUDE FIELD MARKUPS PROVIDED BY THE CONTRACTOR. COFFMAN ENGINEERS HAS NOT FIELD VERIFIED THIS INFORMATION AND DOES NOT GUARANTEE THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.  
DATE: 03/11/03

**COFFMAN ENGINEERS**  
800 F Street, 8001  
Baltimore, MD 21202  
907-276-8866 Fax 907-276-3412

DESIGNED	CP3	DESIGNED	CP3	DATE	AUGUST 2001
DRAWN	RJ	DATE	2001-07-20	REV	0
FIELD BOOKS		SCALE	AS-BUILT	NO.	20'-0"
NO.		DATE		BY	
REV.		DATE		BY	

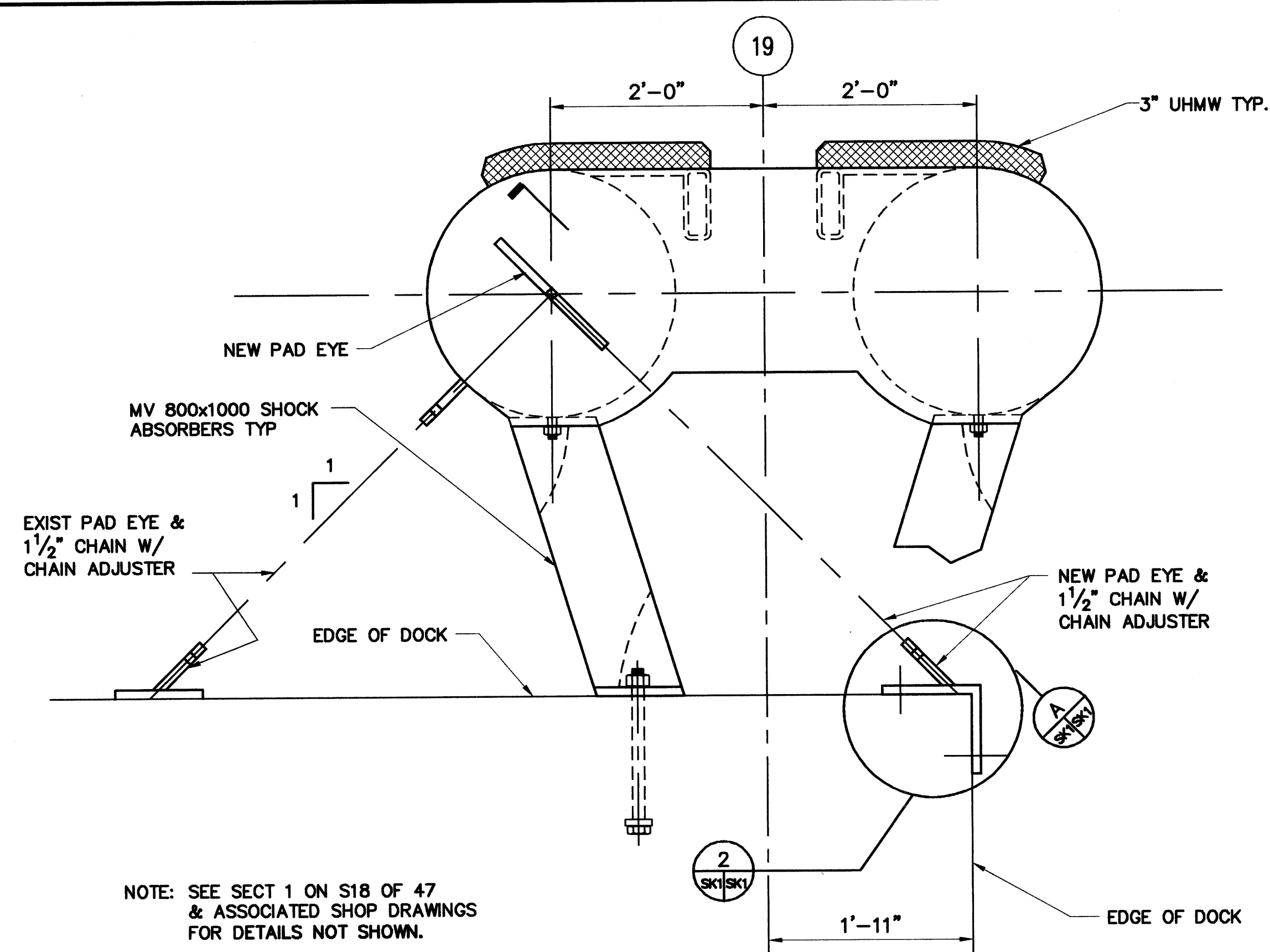
NO.		DATE		BY	
REV.		DATE		BY	

**City of Homer**  
PILE BONDING PLAN  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

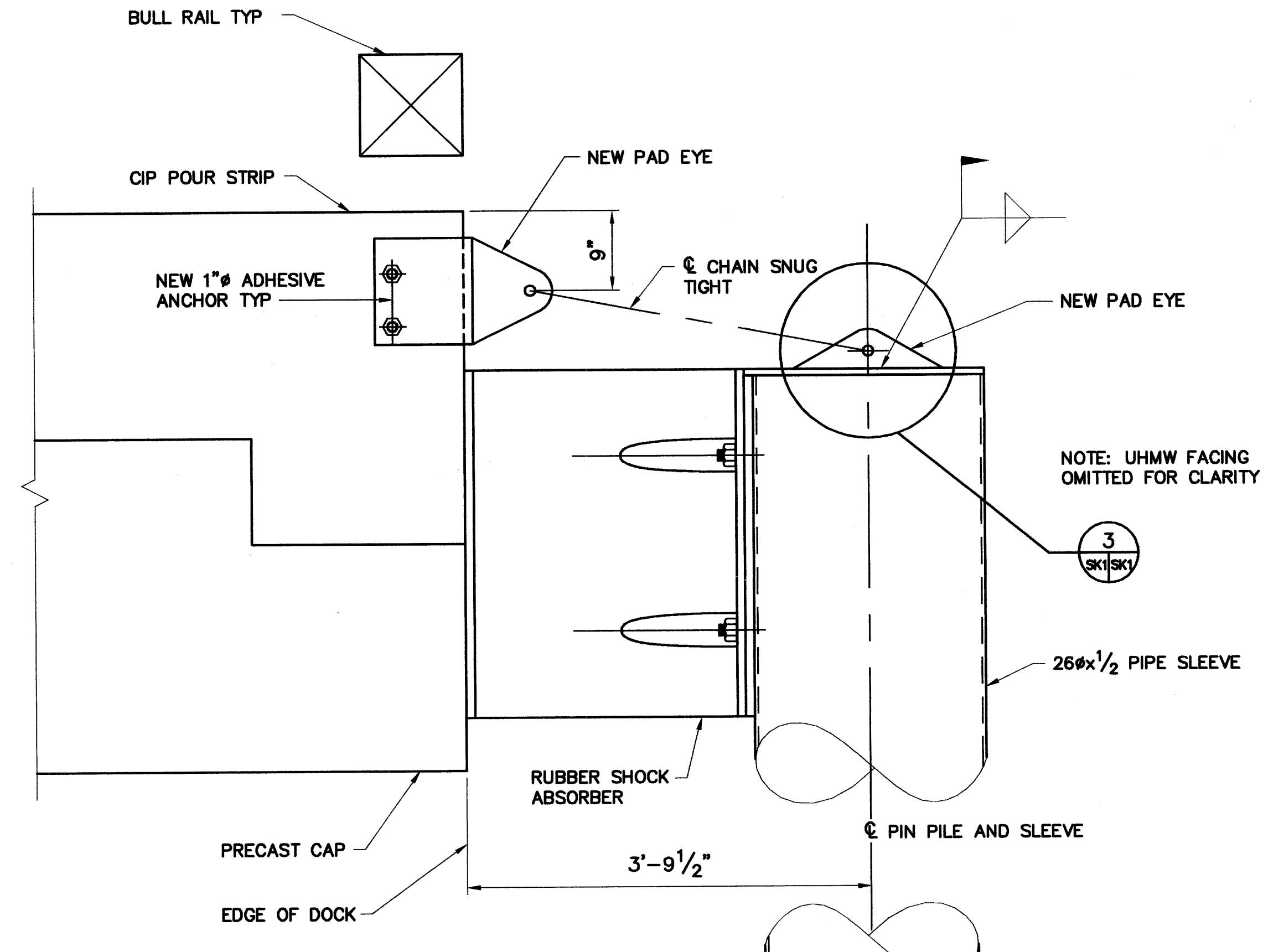
**City of Homer**  
PILE BONDING PLAN  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK

SHEET  
**CP3/ 47**  
FILE NO.  
98435CP3.DWG



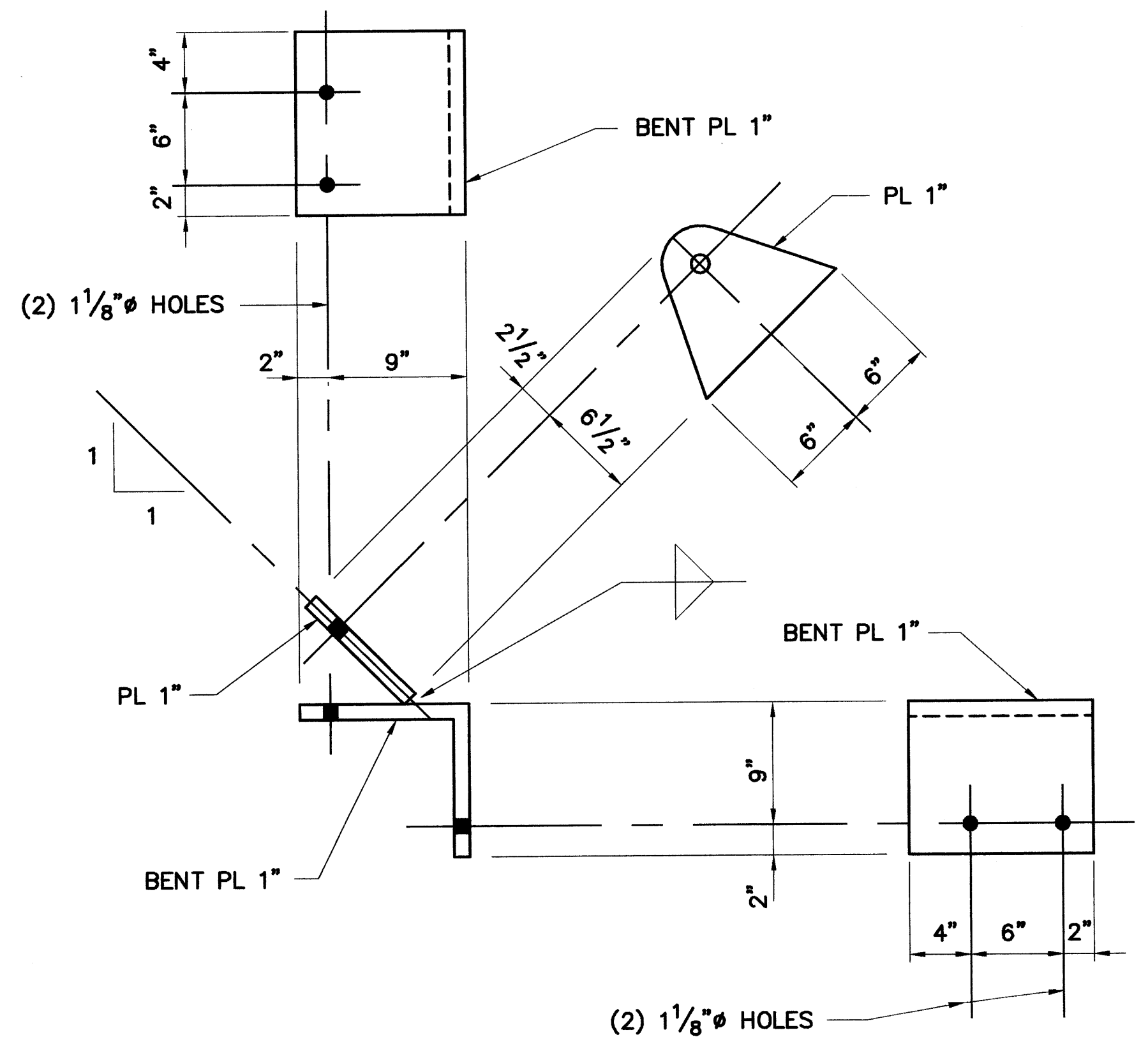


**1**  
DETAIL  
SCALE 1"=1'-0"

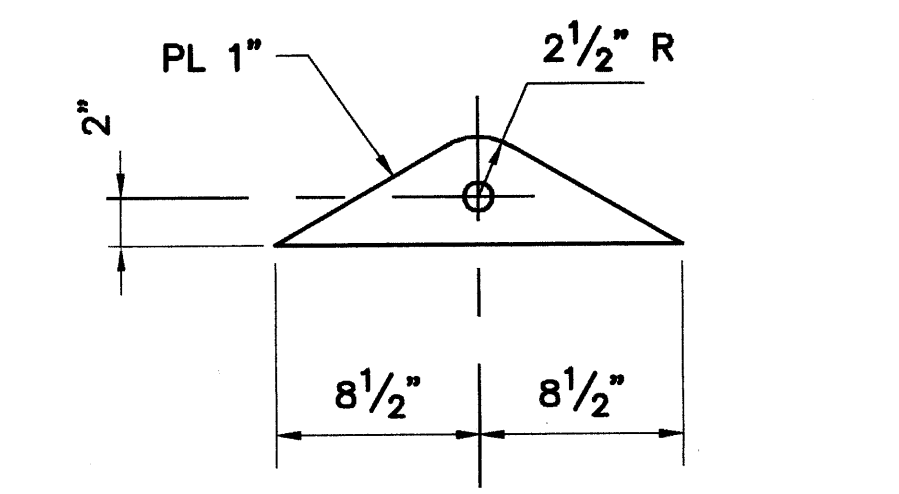


**3**  
DETAIL  
SCALE 1 1/2"=1'-0"

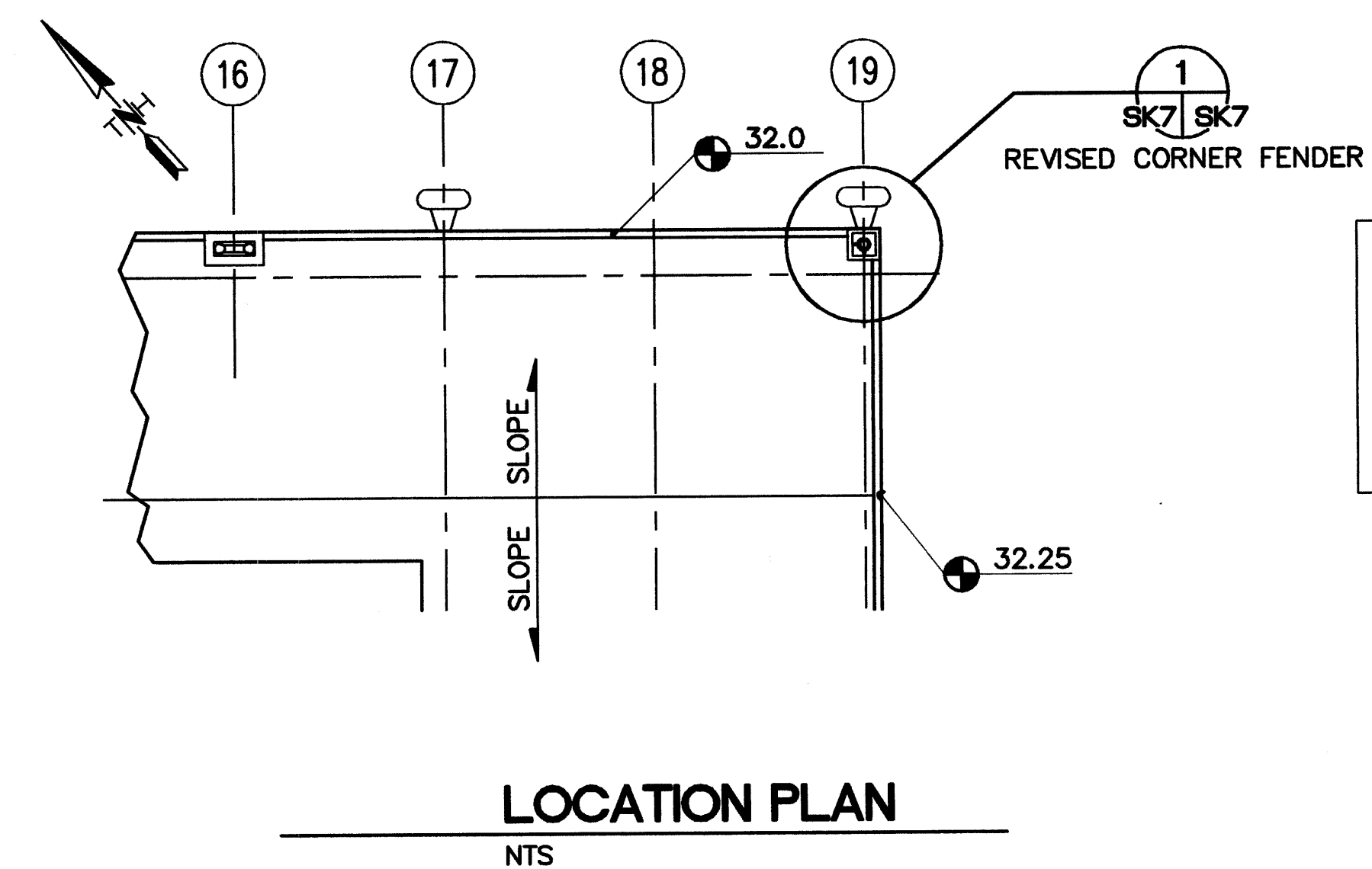
**A**  
SECTION  
SCALE 1"=1'-0"



**2**  
DETAIL  
SCALE 1 1/2"=1'-0"

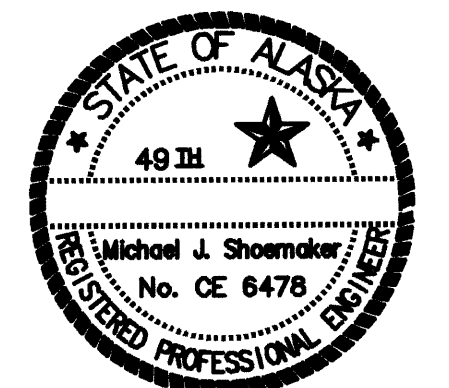


**3**  
DETAIL  
SCALE 1 1/2"=1'-0"



**LOCATION PLAN**  
NTS

**RECORD DRAWING**  
CHANGES TO THE DESIGN DRAWINGS SHOWN HERE REFLECT THE ACCURACY OF CONSTRUCTION CHANGES AS SHOWN ON THE CONTRACTOR'S REDLINE DRAWINGS.  
ENGINEER: *[Signature]* DATE: 1/23/04



REV.	DATE	BY	REVISION

**Tryck Nyman Hayes, Inc.**  
911 W. 8th Avenue, Suite 300  
Anchorage, AK 99501  
TEL: (907) 279-0543 • FAX: (907) 276-7679

CITY OF HOMER  
KATCHEMAK BAY OCEAN DOCK  
REVISED FENDER  
SECTION & DETAILS

SK1  
SHEET  
1 / 1  
FILE NAME  
8239\_SK1.DWG

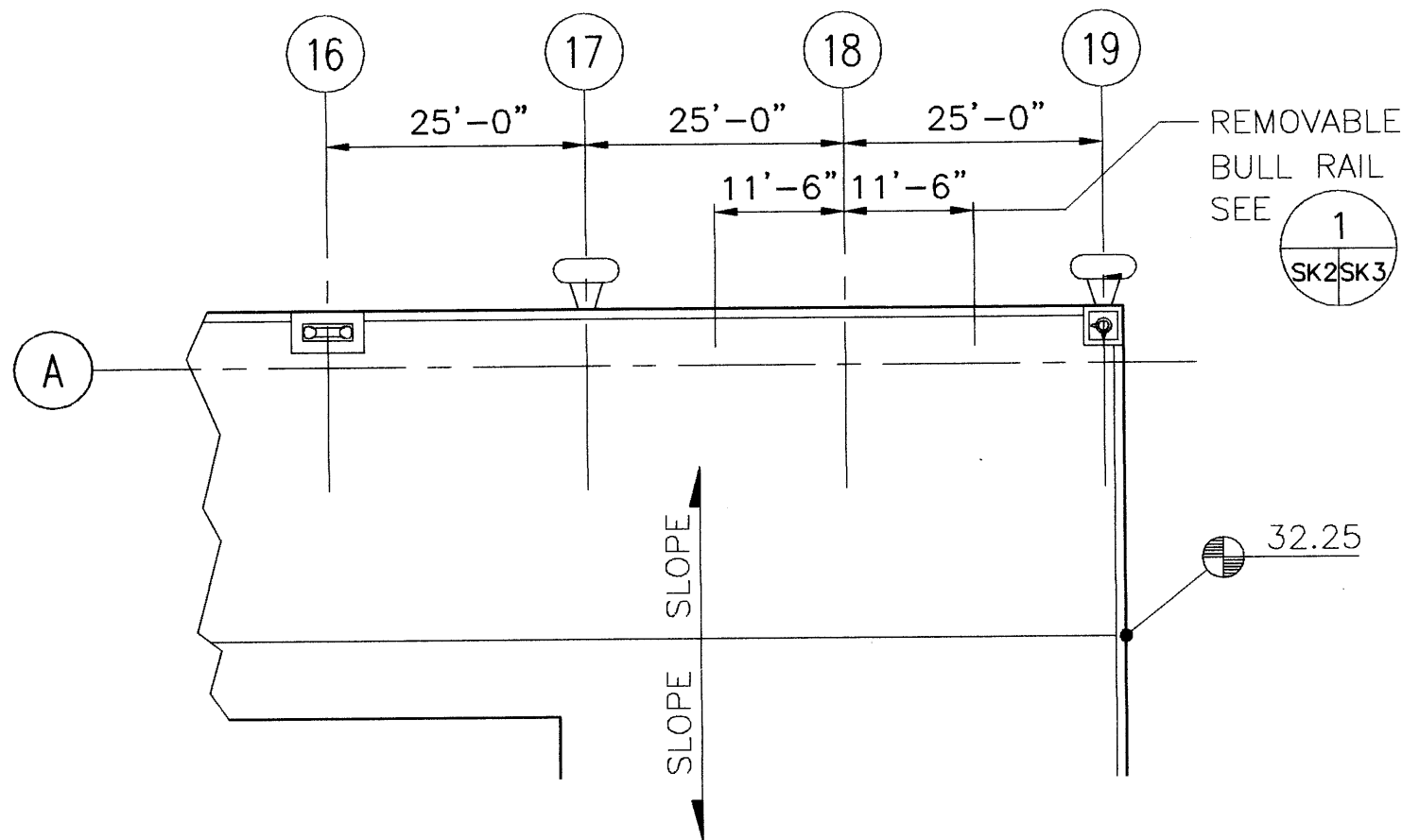
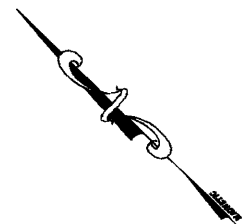
02134

PLOT SCALE: 1:1 PLOT DATE: 06/03 PLOT VIEW:



LAYER MGR: .LAY  
PLOTTED: PLOTDATE

PROJECT: 00000  
DRAWING NAME & LOCATION: M:\00000.DWG



REMOVABLE  
BULL RAIL  
SEE  
1  
SK2SK3

1  
SK2 SK2

**PARTIAL DOCK PLAN**

NTS

02135

**RECORD DRAWING**  
CHANGES TO THE DESIGN DRAWINGS SHOWN HERE  
REFLECT THE ACCURACY OF CONSTRUCTION CHANGES  
AS SHOWN ON THE CONTRACTOR'S REDLINE DRAWINGS.  
*[Signature]* 1/23/07  
ENGINEER DATE

DESIGN BY: MJS	DATE: 10/12/01
DRAWN BY: WFH	JOB NO.: 8239
CHECKED BY: MJS	REV.: REV
FIELD BOOK: -	FILE: 000SK2
SCALE: 1 1/2"=1'-0"	SHEET: SK2
HORIZ.: H_SCALE	
VERT.: V_SCALE	

**TNH**  
ENGINEERING/SURVEYING  
& LANDSCAPE ARCHITECTURE  
TRYCK NYMAN HAYES, INC.  
911 W. 8TH AVENUE, SUITE 300  
ANCHORAGE, AK 99501-3497  
TEL: (907) 278-0543 • FAX: (907) 278-7678

CITY OF HOMER

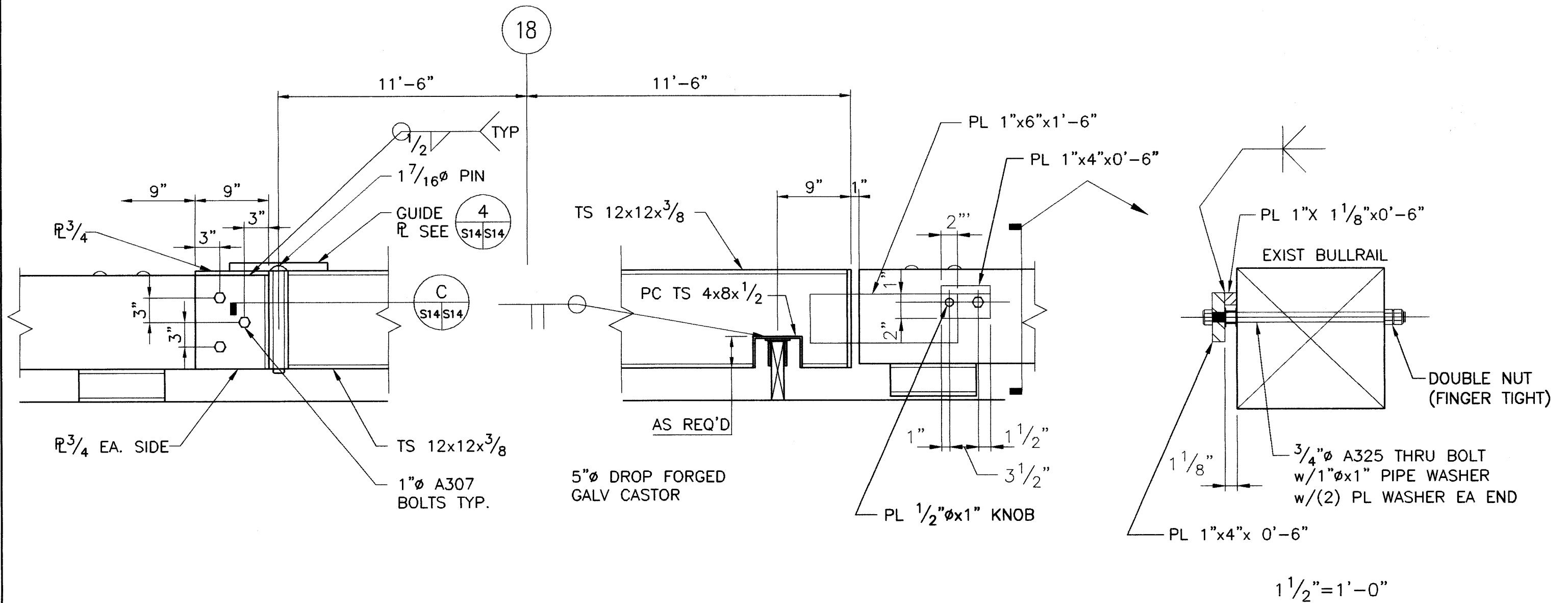
**PARTIAL DOCK PLAN**

KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK



LAYER MGR: .LAY  
PLOTTED: PLODATE

PROJECT: 00000  
DRAWING NAME & LOCATION: M:\00000.DWG



1  
SK2 | SK3

**REMOVABLE BULL RAIL**

1" = 1'-0"

**RECORD DRAWING**  
CHANGES TO THE DESIGN DRAWINGS SHOWN HERE  
REFLECT THE ACCURACY OF CONSTRUCTION CHANGES  
AS SHOWN ON THE CONTRACTOR'S REDLINE DRAWINGS.  
*[Signature]* 1/23/07  
ENGINEER DATE

02136

DESIGN BY: MJS	DATE: 01/21/02
DRAWN BY: WEH	JOB NO.: 8239
CHECKED BY: MJS	REV.: REV
FIELD BOOK: -	FILE: 000SK1
SCALE: 1 1/2" = 1'-0"	SHEET:
HORIZ.: H_SCALE	SK3
VERT.: V_SCALE	Page 135

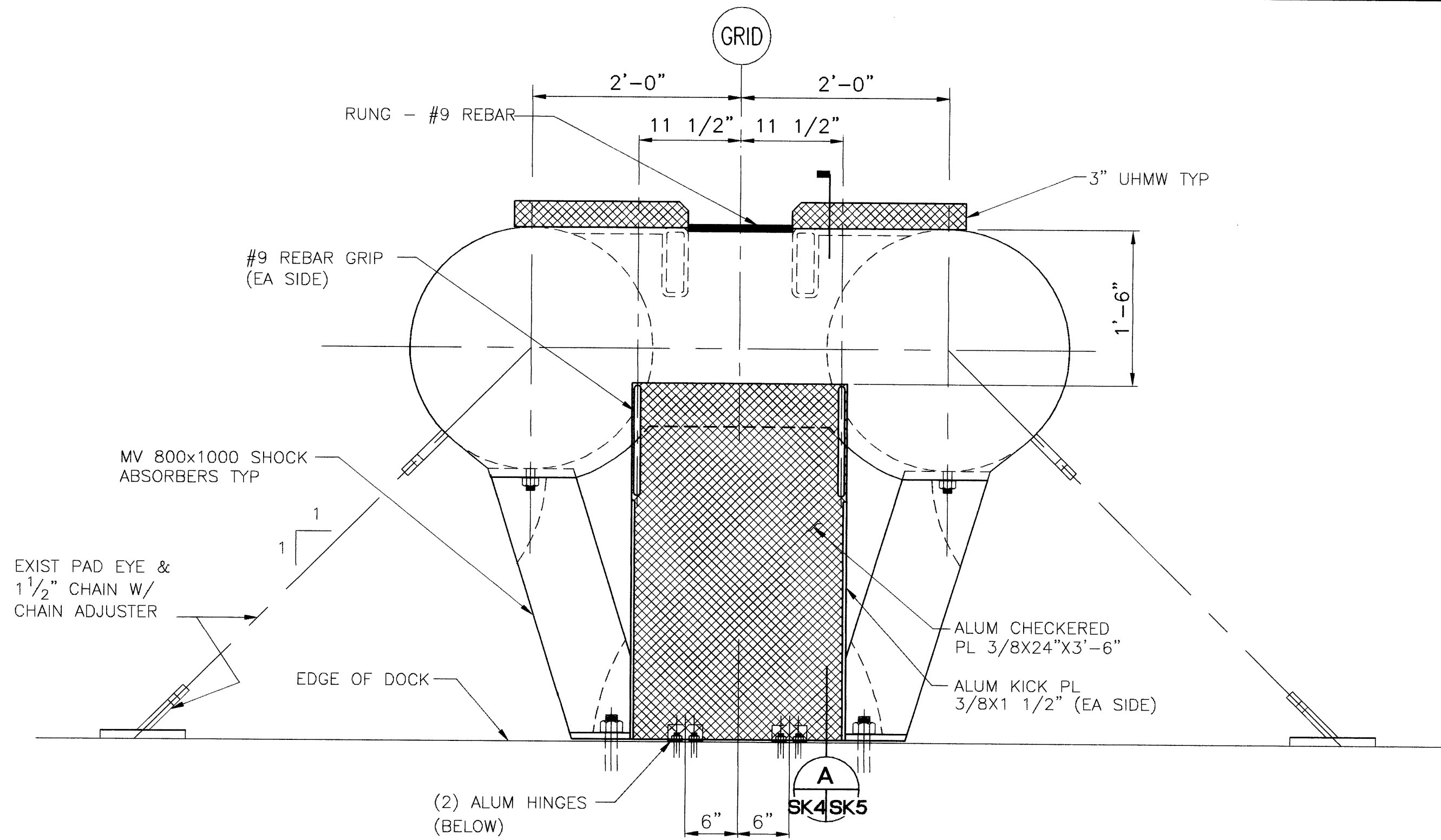
**TNH**  
ENGINEERING/SURVEYING  
& LANDSCAPE ARCHITECTURE  
TRYCK NYMAN HAYES, INC.  
911 W. 8TH AVENUE, SUITE 300  
ANCHORAGE, AK 99501-3497  
TEL: (907) 278-0543 • FAX: (907) 278-7678

CITY OF HOMER

**REMOVABLE BULL RAIL**

KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK





1 TYP FENDER PLAN  
 SK4 | SK4 1"=1'-0"

02137

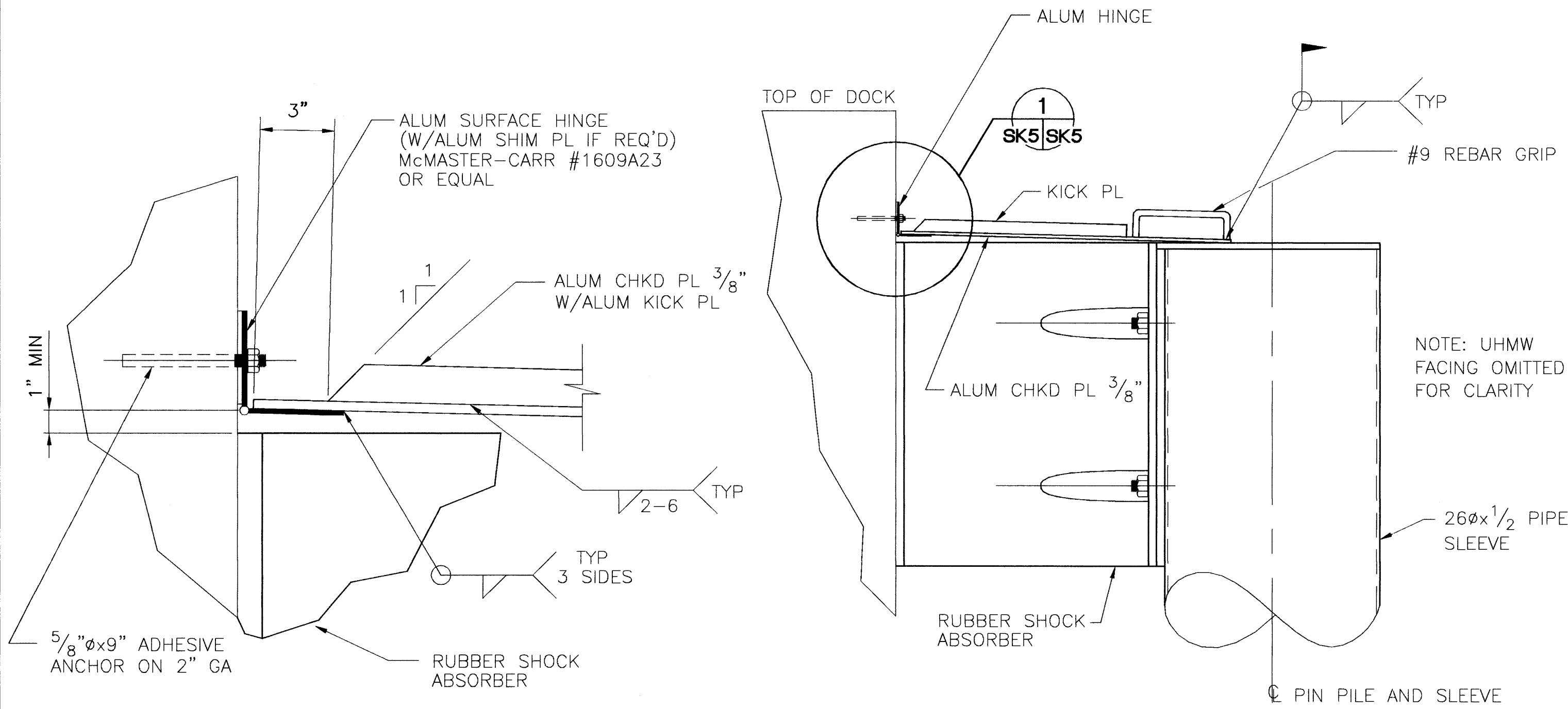
**RECORD DRAWING**  
 CHANGES TO THE DESIGN DRAWINGS SHOWN HERE  
 REFLECT THE ACCURACY OF CONSTRUCTION CHANGES  
 AS SHOWN ON THE CONTRACTOR'S REDLINE DRAWINGS.  
 ENGINEER *[Signature]* DATE 1/29/04

DESIGN BY: MJS	DATE: 03/05/02
DRAWN BY: WEH	JOB NO.: 8239
CHECKED BY: MJS	REV.: REV
FIELD BOOK: -	FILE: 8239 SK4
SCALE: 1 1/2"=1'-0"	SHEET: SK4
HORIZ.: H_SCALE	VERT.: V_SCALE

**TNH**  
 ENGINEERING/SURVEYING  
 & LANDSCAPE ARCHITECTURE  
 TRYCK NYMAN HAYES, INC.  
 911 W. 8TH AVENUE, SUITE 300  
 ANCHORAGE, AK 99501-3497  
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CITY OF HOMER  
**TYPICAL FENDER PLAN**  
**LADDER GRIP AND ALUM PL**  
 KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK





1  
SK5 | SK5  
DETAIL  
3" = 1'-0"

A  
SK4 | SK5  
SECTION  
1" = 1'-0"

02138 *[Signature]* 1/23/04  
ENGINEER DATE

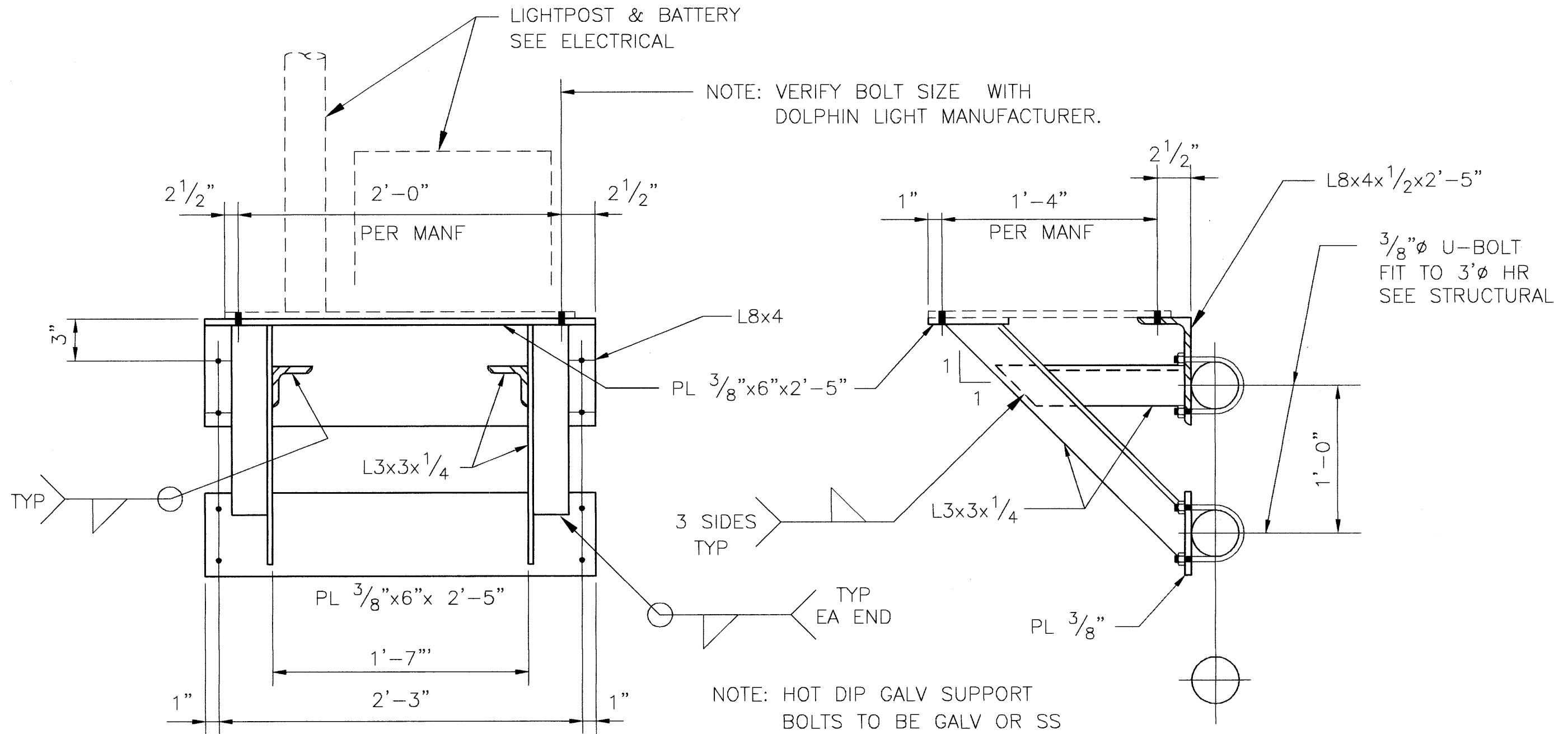
**RECORD DRAWING**  
CHANGES TO THE DESIGN DRAWINGS SHOWN HERE  
REFLECT THE ACCURACY OF CONSTRUCTION CHANGES  
AS SHOWN ON THE CONTRACTOR'S REDLINE DRAWINGS  
*[Signature]* 1/23/04

DESIGN BY: MJS	DATE: 04/10/02
DRAWN BY: WEH	JOB NO.: 8239
CHECKED BY: MJS	REV: REV
FIELD BOOK: -	FILE: 8239_SK5
SCALE: 1"=1'-0"	SHEET: SK5
HORZ.: H_SCALE	Page 137
VERT.: V_SCALE	

**TNH**  
ENGINEERING/SURVEYING  
& LANDSCAPE ARCHITECTURE  
TRYCK NYMAN HAYES, INC.  
911 W. 8TH AVENUE, SUITE 300  
ANCHORAGE, AK 99501-3497  
TEL: (907) 278-0543 • FAX: (907) 278-7679

CITY OF HOMER  
**TYPICAL FENDER PLAN  
LADDER GRIP AND ALUM PL**  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK





**A** FRONT ELEVATION  
SK6 SK6 1 1/2" = 1'-0"

**B** SIDE ELEVATION  
SK6 SK6 1 1/2" = 1'-0"

**RECORD DRAWING**  
CHANGES TO THE DESIGN DRAWINGS SHOWN HERE  
REFLECT THE ACCURACY OF CONSTRUCTION CHANGES  
AS SHOWN ON THE CONTRACTOR'S REDLINE DRAWINGS.  
*[Signature]* 1/23/01  
ENGINEER DATE

02139

DESIGN BY: MJS	DATE: 10/12/01
DRAWN BY: WEH	JOB NO.: 8239
CHECKED BY: MJS	REV: REV
FIELD BOOK: -	FILE: 000SK6
SCALE: 1 1/2" = 1'-0"	SHEET: SK6
HORIZ.: H_SCALE	
VERT.: V_SCALE	

**TNH**  
ENGINEERING / SURVEYING  
& LANDSCAPE ARCHITECTURE  
TRYCK NYMAN HAYES, INC.  
911 W. 8TH AVENUE, SUITE 300  
ANCHORAGE, AK 99501-3497  
TEL: (907) 278-0543 • FAX: (907) 278-7879

CITY OF HOMER  
**DOLPHIN LIGHT SUPPORT**  
KACHEMAK BAY MULTI-PURPOSE OCEAN DOCK