

February 10, 2021

Howard-Cooper County Regional Port Authority
Kendall Kircher & John Sponagule
609 Main Street
Boonville, MO 65233

BIDDING ADDENDUM 01

For work titled:
Wharf Dock Replacement Project

Boonville, MO
Project Number: 20-0330

TO ALL BIDDERS

GENERAL NOTES

This addendum is issued for the purpose of clarifying the intent of the contract documents or for making necessary corrections, deletions, and/or additions to the documents on all items of discrepancy raised up to the time of the issuance of this addendum.

Each bidder is hereby instructed and authorized to incorporate into his proposal the instructions contained in this addendum. This addendum forms a part of the bidding and contract documents and modifies the original bidding documents, dated January 25, 2021 . Acknowledge receipt of this addendum in space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

This addendum consists of fourteen (14) – 8 1/2" x 11" pages including this cover sheet and six (6) - 22" x 34" sheets.

PROJECT MANUAL

1. 000110 Table of Contents	ADD 004513 Bidder's Qualifications ADD Job Special Provisions attachment
2. 001113 Advertisement for Bids	REPLACE the following sentence "The Howard-Cooper County Regional Port Authority will receive Bids for Wharf Dock Replacement Project until Tuesday, February 23, 2021 at 10:00 a.m. local prevailing time, at the Howard-Cooper County Regional Port Authority, 609 Main Street, Boonville, MO 65233 at which time and place all bids will be publicly opened and read aloud." with "The Howard-Cooper County Regional Port Authority will receive Bids for Wharf Dock Replacement Project until Tuesday, February 23, 2021 at 10:00 a.m. local prevailing time, at the MFA Training Center, 1761 Industrial Drive, Boonville, MO 65233 at which time and place all bids will be publicly opened and read aloud." REPLACE the following sentence " Two pipe pile cells are proposed to be installed at the upstream and downstream corners of the new dock structure. " with " Two pipe pile cells are proposed to be installed at the upstream and downstream corners of the new dock structure and an additional pipe pile centered in the wall. "
3. 004513 Bidder's Qualifications	ADD the entire Specification Section of 004513 Bidder's Qualifications.

4. 011100 Summary of Work, 1.2, D, 1c.	REPLACE the following sentence “Install pipe pilings at upstream and downstream dock corners with connection to sheet pile dock structure.” with “Install pipe pilings at upstream and downstream corners and in the middle of the sheet pile dock structure with detailed connections.”
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DRAWINGS

5. C101 Wharf Dock Site and Grading Plan	REPLACED C101 Wharf Dock Site and Grading Plan with Revised C101 Wharf Dock Site and Grading Plan.
6. S001 Structural Notes	REPLACED S001 Structural Notes with Revised S001 Structural Notes.
7. S101 Wharf Dock Structural Plan	REPLACED S101 Wharf Dock Structural Plan with Revised S101 Wharf Dock Structural Plan.
8. S301 Wharf Dock Structural Elevations	REPLACED S301 Wharf Dock Structural Elevations with Revised S301 Wharf Dock Structural Elevations.
9. S302 Wharf Dock Structural Sections	REPLACED S302 Wharf Dock Structural Sections with Revised S302 Wharf Dock Structural Sections.
10. S501 Wharf Dock Structural Details	REPLACED S501 Wharf Dock Structural Details with Revised S501 Wharf Dock Structural Details.

ATTACHMENTS

Section 000110 Table of Contents - (1 pg., 8.5 X 11)

Section 001113 Advertisement for Bids - (1 pg., 8.5 X 11)

Section 004513 Bidder's Qualifications – (2 pgs., 8.5 X 11)

Section 011100 Summary of Work – (2 pgs., 8.5 X 11)

Job Special Provisions – (2 pgs., 8.5x11)

Letter for Contractor Questions / Responses and Clarifications – (2 pgs., 8.5 X 11)

Pre-Bid Meeting Attendance - (2 pgs., 8.5 X 11)

Plan set with addendum items marked on the sheets noted in the document above. – (6 pgs., 22 X 34)

All other terms and conditions of the Project Manual and Drawings shall remain unchanged.

END OF ADDENDUM 01

SECTION 000110
TABLE OF CONTENTS

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

000101	Project Title Page
000103	Project Directory
000107	Seals Page
000110	Table of Contents
001113	Advertisement for Bids
002113	Instructions to Bidders
004200	Bid Proposal
004313	Bid Security Form
004513	Bidders Qualifications
004519	Non-Collusion Affidavit
004521	Work Authorization Affidavit
005100	Notice of Award
005200	Agreement Forms
005500	Notice to Proceed
006113	Performance and Payment Bond Form
007200	Standard General Conditions
007300	Supplementary Conditions
007343	Wage Rate Requirements
008500	Index of Drawings

DIVISION 01 – GENERAL REQUIREMENTS

011000	Summary of Work
014000	Quality Requirements
014529	Testing Laboratory Services
015000	Temporary Facilities and Controls

DIVISION 05 - METALS

051200	Structural Steel Framing
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DIVISION 31 – EARTHWORK

312300	Excavation and Fill
312313	Subgrade Preparation
312513	Erosion Control
313700	Riprap

DIVISION 32 – EXTERIOR IMPROVEMENTS

321217	Aggregate Surface Course
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DIVISION 35 – WATERWAY AND MARINE CONSTRUCTION

354213	Sheet Piling Bank Protection
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Geotechnical Report
Job Special Provisions

END OF SECTION 000110

SECTION 001113
ADVERTISEMENT FOR BIDS

The **Howard-Cooper County Regional Port Authority** will receive Bids for **Wharf Dock Replacement Project** until **Tuesday, February 23, 2021 at 10:00 a.m.** local prevailing time, at the **MFA Training Center, 1761 Industrial Drive, Boonville, MO 65233** at which time and place all bids will be publicly opened and read aloud.

Bids are advertised as follows:

The existing Port Authority Dock structure is to be replaced with a new sheet pile structure complete with waler and tie rod system. Two pipe pile cells are proposed to be installed at the upstream and downstream corners of the new dock structure and an additional pipe pile centered in the wall. The upstream, downstream, and portion of the dock toe are proposed to be protected by rip rap.

A pre-bid conference is scheduled for Wednesday, February 3, 2021 at 10:00 am at the Project Location.

Electronic Contract Documents, including Drawings and Technical Specifications, may be obtained by calling the office of Klingner and Associates, P.C. at 217-223-3670 and no deposit will be required for the bid set. All Contract Documents will be provided via email.

A certified check or bank draft, payable to the order of **Howard-Cooper County Regional Port Authority**, negotiable U.S. Government bonds (at par value) or a satisfactory Bid Bond executed by the Bidder and an acceptable surety in an amount equal to five percent (5%) of the total Bid shall be submitted with each Bid.

Attention is called to the fact that no less than the minimum salaries and wages as set forth in the Contract Documents must be paid on this project, and that the Contractor must ensure that employees and applicants for employment are not discriminated against because of their race, color, religion, sex or national origin.

The **Howard-Cooper County Regional Port Authority** reserves the right to reject any or all Bids or to waive any informality in the bidding.

Bids may be held by the **Howard-Cooper County Regional Port Authority** for a period not to exceed 45 days from the date of the opening of Bids for the purpose of reviewing the Bids and investigating the qualifications of Bidders, prior to awarding of the Contract.

January 22, 2021

By: Kendall Kircher

Title: Board President

END OF SECTION 001113

SECTION 004513
BIDDERS QUALIFICATIONS

If the Owner is not satisfied with the sufficiency of the answers to the Questionnaire and Finance Statements, it may reject the bid or disregard the same, or require additional information.

STATEMENT OF BIDDERS QUALIFICATION

1. Name of Bidder _____
2. Bidder's Address _____
3. When Organized? _____
4. Where Incorporated? _____
5. How many years have you been engaged in the Contracting business under the present firm name? _____
6. General character of work performed by your firm _____

7. Have you ever failed to complete any work awarded to you: Yes___No___.
8. Have you ever defaulted on a Contract? Yes___ No___. If so, attach statement showing where and why.
9. Attach a list of the more important contracts completed by your firm, including kind of work and approximate cost.
10. Attach list of your major equipment.
11. Attach a statement of your experience in the construction of work similar in importance to this project.
12. Attach statement of background and experience of the principal members of your personnel, including the officers.

13. Additional information may be submitted if desired. Dated at _____
this ____ day of _____, 20____.

Name of Organization _____

By _____

Title _____

STATE OF _____)

COUNTY OF _____)

_____, being duly sworn says that he is

_____ of _____ and that the answers to

the

(Name of Organization)

foregoing questions and all statements contained are true and correct.

Signed _____

Subscribed and sworn to before me this

_____ day of _____, 20 _____.

_____ Notary Public

My Commission Expires _____

END OF SECTION 004513

SECTION 011100 SUMMARY OF WORK

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
1. Work covered by the Contract Documents.
 2. Work under other contracts.
 3. Use of premises.
 4. Owner's occupancy requirements.
 5. Specification formats and conventions.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project Identification: Howard-Cooper County Regional Port Authority – Wharf Dock Replacement Project
1. Project Location: Boonville, Missouri
- B. Owner: Howard-Cooper County Regional Port Authority
1. Owner's Representative: Kendall Kircher, President & John Sponaugle, Secretary
- C. Engineer/Architect: Klingner & Associates, P.C., 616 N. 24th Street, Quincy, Illinois 62301/217-223-3670.
- D. The Work consists of the following:
1. The Work includes: The Howard-Cooper County Regional Port Authority is proposing to replace the existing sheet pile dock structure by installing a new sheet pile dock in front of the existing. Selective demolition will be necessary to allow for the new tie-back system to be installed.

Wharf Dock Replacement:
 - a. Install frontage and tieback sheet piling (selective demolition, as needed)
 - b. Install walers, tie rods, and tie-back sheet piling (selective demolition, as needed)
 - c. Install pipe pilings at upstream and downstream corners and in the middle of the sheet pile dock structure with detailed connections.
 - d. Backfill behind sheet piling utilizing imported fill, as specified.
 - e. Install aggregate surface course, as specified.
 - f. Install flanking riprap protection on upstream and downstream slopes.
 - g. Remove from the site and properly dispose of deleterious material, old sheet piling, leftover materials, etc.
- E. Project will be constructed under a single or multiple prime contract(s).
- F. The Project shall be completed by June 15, 2021 with the Notice to Proceed anticipated to be issued prior to February 26, 2021.

- G. A work plan shall be developed and submitted to the Engineer / Owner for review at a minimum of 48 hours in advance to the commencement of work by the Contractor. Said work plan shall include the anticipated construction sequence, schedule, and equipment to be utilized at a minimum.

1.3 WORK UNDER OTHER CONTRACTS

- A. General: Contractor shall work to prevent conflicts in site access, blocking drives, and/or hindering the Owner, Neighbors, and/or other Contractors from accessing the site.

1.4 USE OF PREMISES

- A. General: Contractor shall have full use of premises for construction operations, including use of Project site, during construction period. Contractor's use of premises is limited only by Owner's right to perform work or to retain other contractors on portions of Project.

1.5 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 48-division format and CSI/CSC's "MasterFormat" numbering system.

- 1. Division 01: Sections in Division 01 govern the execution of the Work of all Sections in the Specifications.

- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

- 1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
 - 2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.

- a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

PART 2 - PRODUCTS (Not Used)


PART 3 - EXECUTION (Not Used)

END OF SECTION 011100

JOB SPECIAL PROVISIONS TABLE OF CONTENTS

(Job Special Provisions shall prevail over General Special Provisions whenever in conflict therewith.)

A. Selective Demolition

 02-10-21	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 W. CAPITOL AVE. JEFFERSON CITY, MO 65102 Phone 1-888-275-6636
	KLINGNER & ASSOCIATES, P.C. 616 N. 24 TH ST., QUINCY, IL 62312 Certificate of Authority: E-000866 Consultant Phone: 217.223.3670
	If a seal is present on this sheet, JSP's have been electronically sealed and dated.
	JOB NUMBER: 20-0330 HOWARD COUNTY, MO DATE PREPARED: 02/10/21
	ADDENDUM DATE: 02/10/21
Only the following items of the Job Special Provisions are authenticated by this seal: SELECTIVE DEMOLITION	

JOB
SPECIAL PROVISION

A. Selective Demolition

1. **Description.** This work shall consist of removal of existing sheet piling in eleven (11) locations to allow for the passage of proposed tierods and flank sheet pile walls to pass through the existing dock walls as shown on the project plans.
2. **Basis of Payment.** Payment for this work, including all materials, equipment, and labor shall be covered by the Lump Sum price and payment will be allocated based upon the percentage of the work completed.

February 10, 2021

All Bidders on Howard-Cooper County Regional Port Authority Wharf Dock Replacement Project

RE: Contractor Questions / Responses and Clarifications

Dear Bidders:

Clarifications to Contractor questions are below.

Contractor Questions / Responses and Clarifications

1. **Clarification:** Capital Sand will remove all concrete blocks on the project site prior to project commencement.
2. **Clarification:** Bid opening will be moved to the MFA training center. See revised specification section for address. Time to remain the same.
3. **Clarification:** Base bid will include the top of wall at elevation 587.00. There will be an Addendum 2 to include an alternate for the project to extend the top of wall to elevation 592.00.
4. **Clarification:** If a contractor has an alternate sheet piling, please provide to Klingner for review. Should the alternate be an acceptable equivalent, all potential bidders will be notified.
5. **Clarification:** Please have all questions submitted to Klingner a minimum of three (3) business days prior to the bid opening for review. All questions / responses will be provided to all potential bidders.
6. **Question:** "Is there sign of rip-rap currently in front of the existing wall?"
 - a. **Response:** Capital Sand did not believe there was rip-rap currently present due to their experiences using the dock during low water in the recent season.
7. **Question:** "Will Capital Sand be operating at the time of construction?"
 - a. **Response:** Capital Sand stated they will not be operating at the dock during the construction phase of the project.
8. **Question:** "What is available for laydown and storage areas?"
 - a. **Response:**
 - i. Capital Sand was open to lease property but would have to coordinate this with their lease holder.

- ii. The Port Authority has additional property downstream that could be used as a laydown and storage area.
 - iii. Gavilon stated they would work with the contractor on site and the Port Authority as long as Gavilon was aware of what was happening at the project and were given notice.
- 9. **Question:** "Who is a good contact for Nucor Skyline regarding sheet piling?"
 - a. **Response:** It is recommended to contact the local Nucor Skyline sales representative for the Missouri area. See clarification above regarding alternate sheet piling.
- 10. **Question:** "Is there information available regarding the existing wall?"
 - a. **Response:** The Port Authority does not have information pertaining to the existing wall.
- 11. **Question:** "What is required for special inspections?"
 - a. **Response:** Please review the bidding documents closely. Special Inspections shall be performed per the International Building Code 2018. Tables have been added to the plan sheets to assist with clarification.
- 12. **Question:** "What is required for the beveled washers?"
 - a. **Response:** Beveled washers are being used to align the threaded bars when penetrating the wall. The beveled washers are to be located within the web of the waler.
- 13. **Question:** "What are the threaded bar tensioning requirements?"
 - a. **Response:** Please review the bidding documents closely. A note has been added to hand tighten the thread bar components.
- 14. **Question:** "What are the tolerances of threaded bar installation?"
 - a. **Response:** We have shown the threaded bars at a +/-45 degree install. We expect the contractor to be within two (2) degrees of this. Threaded bars are to be installed level using cribbing and compacted fill material. Threaded bars shall be monitored during the backfill process to ensure no deformation. Threaded bars shall be installed through the webs of the sheet piling being penetrated. See more information in the bidding documents.

ATTENDANCE

Meeting Description: Howard-Cooper Regional Port Authority Wharf Dock Replacement Pre-Bid Meeting

Project # 20-0330

Time: 10am

Place: Project Site

Date: 02/03/2021

Page: 1 of 2

Attendees:

Name	Representing (if appropriate)	Phone Number	E-Mail address
Alan Balzer	Klingner & Associates, P.C.	N/A	N/A
Gavin Risley	Klingner & Associates, P.C.	N/A	N/A
John Sponaugle	Port Authority	N/A	N/A
Kendall Kircher	Port Authority	N/A	N/A
Bill Bryan	Port Authority	N/A	N/A
Mike	Port Authority	N/A	N/A
Ronny Anderson	MFA	N/A	N/A
Matt	MFA	N/A	N/A
Tim	MFA	N/A	N/A
Damon	Gavilon	N/A	N/A
Jason	Capital Sand	N/A	N/A
Steve	Local Union Carpenters	N/A	N/A
Alan	Local Union Carpenters	N/A	N/A
Bryan	Magruder	N/A	N/A
Steve	Magruder	N/A	N/A
Bob	OCCI	N/A	N/A
Zach	ESI	N/A	N/A
Brian Koelling	Massman	N/A	N/A

Robert Brand	J.F. Brennan	N/A	N/A
Adam Kaufmann	Newt Marine	N/A	N/A
Bill Berry	CBS Piling Solutions Inc.	N/A	N/A
Adam	MFD	N/A	N/A
Nick	MFD	N/A	N/A

GENERAL NOTES

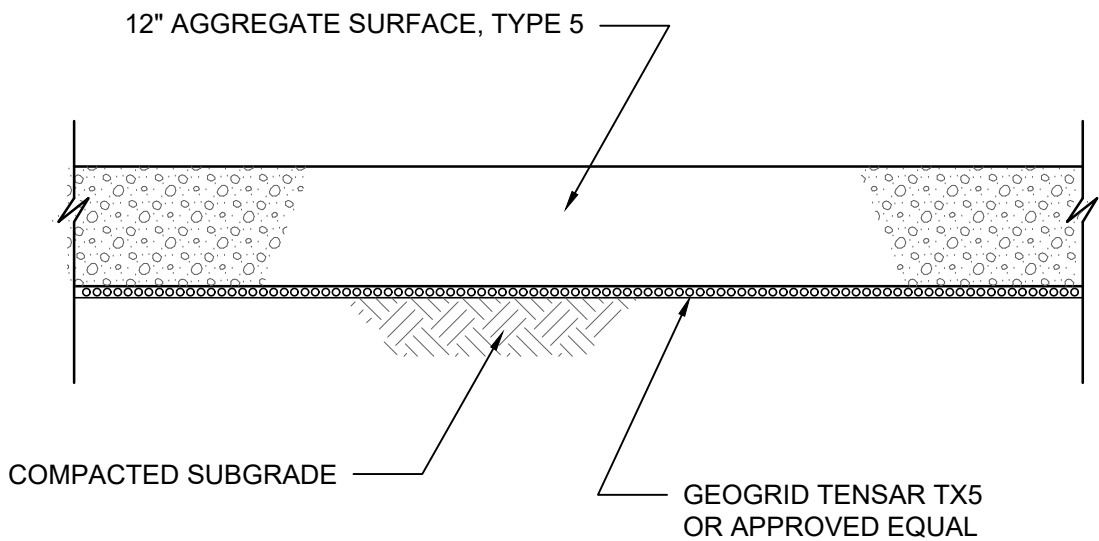
- ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- ANY DISCREPANCIES BETWEEN SPECIFICATIONS, DRAWINGS, AND/OR SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ALL AREAS DESIGNATED TO REMAIN UNDISTURBED SHALL BE PROTECTED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE LOCATION OF ALL PROPOSED IMPROVEMENTS, INCLUDING ROUGH AND FINISHED ELEVATIONS AND ALL OTHER PROPOSED IMPROVEMENTS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY THAT ALL APPLICABLE LOCAL, STATE, & FEDERAL CODES ARE FOLLOWED. ALL APPLICABLE LOCAL AND STATE NOTIFICATIONS AND PERMITS SHALL BE ACQUIRED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND SERVICES REQUIRED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL REFERENCE POINTS, BENCHMARKS, MONUMENTS, STAKES, AND PROPERTY CORNERS DURING CONSTRUCTION. REPLACEMENT OF LOST REFERENCE POINTS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- REMOVE ALL STRUCTURES, FOUNDATIONS, WALLS, PAVEMENTS, AND ALL OTHER ITEMS IN CONFLICT WITH PROPOSED IMPROVEMENTS IN ACCORDANCE WITH THE SPECIFICATIONS.
- REFERENCES TO "STANDARD SPECIFICATIONS" SHALL MEAN THE MISSOURI DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", LATEST ADDITION.
- THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- NO WORK SHALL BE PERFORMED BEYOND THE LIMITS OF CONSTRUCTION WITHOUT OWNER APPROVAL.
- SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, AND THE PROJECT SITE SHALL BE KEPT CLEAN AT ALL TIMES. CONTROL DUST IN AND AROUND ALL WORK AND STAGING AREAS. THE CONTRACTOR SHALL PREVENT CONSTRUCTION DEBRIS AND OTHER FOREIGN OBJECTS FROM FALLING IN THE WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTAINMENT AND REMOVAL OF ALL WASTE, SCRAP, DELETERIOUS AND HAZARDOUS MATERIALS USED OR PRODUCED DURING THE CONSTRUCTION PROCESS.
- ALL OPEN EXCAVATIONS SHALL BE PROTECTED.
- MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
- IF A DISCREPANCY IN THE SPOT ELEVATIONS IS NOTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTING. IF THERE IS A DISCREPANCY BETWEEN THE SPOT ELEVATIONS AND CONTOURS, THE CONTOURS SHALL GOVERN.
- CONTRACTOR TO CONFIRM PROPERTY LINE LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF SILT AND EROSION DURING CONSTRUCTION. CONTRACTOR SHALL CREATE AN EROSION CONTROL PLAN AND EMPLOY BEST MANAGEMENT PRACTICES IN THE PREVENTION OF EROSION AND SILT LEAVING THE PROJECT SITE.

SITE DATA

RIVER MILE: 196.5
ZERO GAGE: ELEV. 565.58 (NAVD'88)
LOW POOL: -0.88' (ELEV. 564.70)
NORMAL POOL: 10.12' (ELEV. 575.70)

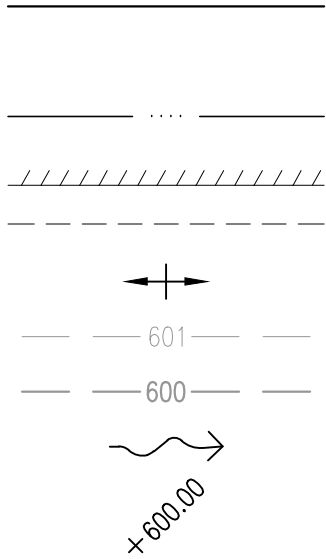
FLOOD CATEGORIES

ACTION STAGE: 18' (ELEV. 583.58)
MODERATE FLOOD STAGE: 30' (ELEV. 595.58)
MAJOR FLOOD STAGE: 34' (ELEV. 598.58)
FLOOD OF RECORD: 37.10' (ELEV. 602.68)
FLOOD VELOCITY: 8.5 FT/S (ESTIMATED)



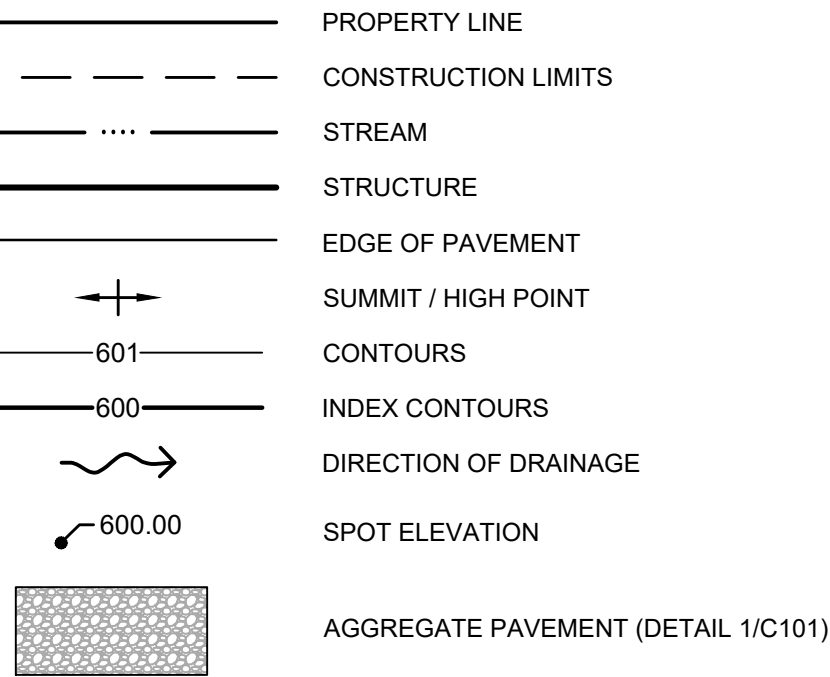
1 AGGREGATE PAVING DETAIL
N.T.S.

EXISTING



LEGEND

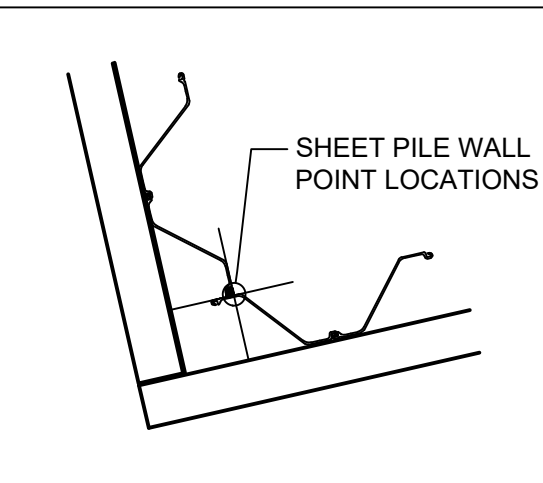
PROPOSED



CONTROL POINTS				
POINT	DESC.	NORTHING	EASTING	ELEVATION
CP3	Iron Pin	1146973.8990	1570946.6130	591.57
CP4	Iron Pin	1146990.7090	1571001.5240	592.11

SHEET PILE WALL POINTS			
POINT	DESC.	NORTHING	EASTING
01	BW	1146880.6550	1571045.4580
02	BW	1146896.0220	1571144.4610

BW=BACK OF WALL



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
Quincy, Illinois
616 North 24th Street
217.223.3670
www.klingner.com
Galesburg, IL Burlington, IA Pella, IA
Davenport, IA, Hannibal, MO Columbia, MO

REVISION HISTORY			
MARK	DESCRIPTION	DATE	APPR
Δ	SHEET PILE WALL ROTATION, ADDITIONAL PIPE PILE, AND RIP-RAP DELETE AT TOE	02/09/21	AMB

Klingner & Associates, P.C.
Missouri State Certificate of Authority
No. E-000866



WHARF DOCK REPLACEMENT PROJECT
HOWARD-COOPER COUNTY
REGIONAL PORT AUTHORITY
BOONVILLE, MO

Non-Reduced Sheet Size: 22" x 34"	
Full sized plans have been prepared using standard scales. Reduced size plans may not conform to standard scales.	
DESIGNED DCD/AMB	DRAWN DCD
FIELD ECB/MWJ	FIELD BOOK M9/28
CHECKED DCD	CHECK DATE 01/14/2021

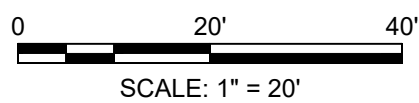
SHEET TITLE
WHARF DOCK SITE & GRADING PLAN

PROJECT NO. 20-0330
DRAWING ISSUED DATE: 01/25/2021
SHEET C101



Know what's below.
Call before you dig.

NOTE
UTILITY INFORMATION IS FOR THE CONVENIENCE OF THE CONTRACTOR. BEFORE CONSTRUCTION BEGINS THE CONTRACTOR SHALL CONTACT MISSOURI ONE CALL SYSTEM, INC. AT 811 OR 1-800-344-7483 AND THE INDIVIDUAL UTILITIES NOT INCLUDED IN THIS SYSTEM FOR THE LOCATION OF ALL EXISTING UTILITIES.



BENCHMARK:
60d NAIL IN LIGHT POLE IN CENTER OF TURN AROUND - ELEV 597.38

DESIGN CRITERIA

1. U.S. ARMY CORPS OF ENGINEERS: EM-1110-2-2504
2. AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 8TH ED., 2017
3. INTERNATIONAL BUILDING CODE 2018

DESIGN LOADS:

1. AS PER DESIGN CRITERIA ABOVE
2. WHARF DOCK
- 2.1. SURCHARGE: 400 PSF

EXISTING WORK

1. EXISTING CONDITIONS SHOWN OR NOTED ON THE DRAWINGS WERE OBTAINED FROM FIELD MEASUREMENTS OR WERE ASSUMED. IF CONDITIONS OTHER THAN THOSE SHOWN EXIST, IMMEDIATELY NOTIFY THE E.O.R. BEFORE PROCEEDING WITH THE THE WORK AT THAT LOCATION. IF CONDITIONS OTHER THAN THOSE SHOWN EXIST, ALTERNATE METHODS OF CONSTRUCTION MAY NEED TO BE USED.
2. WHERE SPECIFICALLY NOTED ON THE DRAWINGS THAT EXISTING CONDITIONS TO BE VERIFIED, NOTIFY THE E.O.R. IN WRITING OF THE FINDINGS. VERIFICATIONS SHALL TAKE PLACE PRIOR TO PREPARATION OF SHOP DRAWINGS AND SHOP DRAWINGS SHALL SHOW ALL FIELD VERIFIED EXISTING CONDITIONS. MODIFICATIONS TO DETAILS MAY BE REQUIRED SHOULD ACTUAL CONDITION SIGNIFICANTLY DIFFER FROM THOSE PRESUMED. ANY REQUIRED MODIFICATIONS WILL BE MADE DURING THE REVIEW OF THE SHOP DRAWINGS.
3. USE APPROPRIATE CONSTRUCTION METHODS AND EQUIPMENT AS NECESSARY TO SUPPORT EXISTING STRUCTURES AND TO AVOID OVER STRESSING THE EXISTING STRUCTURES.

GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND INSURE THE SAFETY OF THE CONSTRUCTION PERSONNEL, PUBLIC, AND ADJACENT PROPERTIES. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY OR PERMANENT SHORING, BRACING, NEEDLING, UNDERPINNING, OR SHEET PILING, ETC. THAT MAY BE NECESSARY TO BRACE NEW CONSTRUCTION, SO THAT THE STRUCTURE IS BRACED FOR WIND, GRAVITY, CONSTRUCTION LOADS, ETC. TEMPORARY SUPPORTS SHALL BE MAINTAINED IN PLACE UNTIL PERMANENT SUPPORTS AND/OR SHORING AND BRACING ARE INSTALLED.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION FOR THE PROJECT IN A MANNER AND SEQUENCE THAT ARE BASED ON ACCEPTED INDUSTRY STANDARDS THAT RECOGNIZE THE INTERACTION OF THE COMPONENTS THAT COMPRISE THE STRUCTURE, WITHOUT CAUSING DISTRESS, UNANTICIPATED MOVEMENTS OR IRREGULAR LOAD PATHS AS A RESULT OF THE CONSTRUCTION MEANS AND METHODS EMPLOYED.
4. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT USED IN CONSTRUCTING THIS PROJECT. SHORING AND RESHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIFICATIONS CAREFULLY, VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO AGREEING TO PERFORM THE WORK. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
6. DETAILS LABELED "TYPICAL DETAILS" ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFIC DETAILS. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY ENGINEER FOR CLARIFICATION REGARDING APPLICABILITY OF "TYPICAL DETAILS".
7. WORK THESE DRAWINGS WITH CIVIL DRAWINGS, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
8. DO NOT SCALE DRAWINGS.
9. SHOULD ANY OF THE GENERAL NOTES CONFLICT WITH ANY DETAILS OR INSTRUCTIONS ON PLANS, OR IN THE SPECIFICATIONS, THE STRICTEST PROVISION SHALL GOVERN.
10. SHOP DRAWINGS AND SUBMITTALS:

- A. THESE DRAWINGS SHALL BE CHECKED AND COORDINATED WITH OTHER MATERIALS AND CONTRACTS BY THE GENERAL CONTRACTOR AND SHOP DRAWINGS AND SUBMITTALS SHALL BEAR THE CONTRACTOR'S REVIEW STAMP WITH THE CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT OR ENGINEER FOR APPROVAL.
- B. WHEN THE FABRICATOR HAS BEEN AUTHORIZED TO USE THE ENGINEER'S DRAWINGS AS ERECTION DRAWINGS, THE FABRICATOR MUST REMOVE ALL TITLE BLOCKS, PROFESSIONAL SEALS AND ANY OTHER REFERENCE TO THE ENGINEER FROM THAT ERECTION DRAWING. THE FABRICATOR'S NAME AND TITLE SHALL BE PLACED ON THE ERECTION DRAWING.
- C. WHERE DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION COULD AFFECT THE NEW CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE FIELD MEASUREMENTS IN TIME FOR THEIR INCORPORATION IN THE SHOP DRAWINGS.

SOILS

1. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SURVEY AND THE GEOTECHNICAL INVESTIGATION REPORT BY GEOTECHNICS DATED JANUARY 07, 2021, BEFORE STARTING CONSTRUCTION.
2. A SOILS TESTING LABORATORY SHALL BE RETAINED BY THE CONTRACTOR FOR PROJECT CONSTRUCTION REVIEW TO ENSURE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS DURING THE EXCAVATION, BACK FILL, AND FOUNDATION PHASES OF THE PROJECT.
3. ALL FILL MATERIAL SHALL BE FREE OF ORGANIC CONTAMINATIONS AND OTHER DELETERIOUS MATTER.
4. NOTIFY STRUCTURAL ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT.

STRUCTURAL STEEL

1. DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND STANDARD CODE OF PRACTICE FOR THE YEAR REFERENCED IN THE BUILDING CODE NOTED, EXCEPT AS MODIFIED BY THESE NOTES AND THE PROJECT SPECIFICATIONS.
2. STEEL SHALL CONFORM TO THE FOLLOWING GRADES UNLESS OTHERWISE NOTED:
- A. SHEET PILING - ASTM A572 (Fy = 60 KSI)
- B. PLATES - ASTM A572 (Fy = 50 KSI)
- C. PIPE PILES - ASTM A252 GRADE 3 MODIFIED (Fy = 50 KSI)
- D. W-SHAPES - ASTM A992 (Fy = 50 KSI)
- E. HP-SHAPES - ASTM A572 (Fy = 50 KSI)
- F. THREADED BAR - ASTM A615 (Fy = 75 KSI)
- G. WASHERS - ASTM F436
- H. THREADED BAR NUTS/CONNECTORS - ASTM A108/A576
- I. WELDING ELECTRODES - E70XX
- J. BOLTS - ASTM A325-N ($\frac{3}{4}$ " MIN. DIA.)
3. STEEL FABRICATION AND ERECTION SHALL FOLLOW OSHA REQUIREMENTS.
4. ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE", AWS D1.1, LATEST EDITION.
5. SPLICING OF STRUCTURAL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
6. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN THE STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, UNLESS SPECIFICALLY APPROVED IN EACH CASE BY THE ENGINEER.
7. THE MINIMUM PLATE THICKNESS SHALL BE 3/8", UNLESS OTHERWISE NOTED.
8. THE MINIMUM WELD SIZE SHALL BE 1/4", UNLESS OTHERWISE NOTED.
9. GALVANIZE STRUCTURAL MEMBERS AS NOTED IN DRAWINGS AND SPECIFICATIONS.
10. PILING (SHEET AND PIPE):

- A. CONTRACTOR SHALL RECORD AND REPORT DAILY PILE DRIVING LOGS TO INDICATE EACH PILE LOCATION, SIZE, WATERLINE ELEVATION, ESTIMATED WATER DEPTH, FINAL EMBEDMENT DEPTH, CUTOFF ELEVATION, EQUIPMENT AND METHOD EMPLOYED FOR DRIVING AND ANY OTHER PERTINENT DATA REGARDING THE DRIVING OPERATIONS.
- B. CONTRACTOR SHALL VERIFY, RECORD, AND REPORT FINAL PILE LOCATIONS AND ELEVATIONS WITH A SURVEY.
- C. EACH PIPE PILE SHALL HAVE A MAXIMUM OF ONE (1) SHOP SPLICE OR (1) FIELD SPLICE. AT THE CONTRACTOR'S DISCRETION. SPLICES SHALL BE PROVIDED USING PREFABRICATED SPLICING COMPONENTS.
- D. SHEET PILING SHALL BE PROVIDED AND INSTALLED IN FULL LENGTHS AS NOTED ON THE DRAWINGS.

SPECIAL STRUCTURAL INSPECTIONS

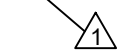
1. CONTRACTOR WILL ENGAGE A QUALIFIED INSPECTING AGENCY TO PERFORM FIELD SPECIAL INSPECTIONS IN ACCORDANCE WITH THE APPLICABLE INTERNATIONAL BUILDING CODE AND TO SUBMIT THE REQUIRED REPORTS. REPORTS SHALL BE FURNISHED TO THE OWNER, ENGINEER OF RECORD, AND THE CONTRACTOR.
2. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE STRUCTURAL WORK WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
3. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE, IBC, 2018.
- SPECIAL INSPECTIONS INCLUDE:
- A. STEEL CONSTRUCTION - SECTION 1705.2
- B. SOILS - SECTION 1705.6
- SEE TABLES FOR INSPECTION REQUIREMENTS. SHEET PILE INSPECTIONS SHALL BE PERFORMED PER THE ACCOMPANYING TABLE.
4. THE CONTRACTOR SHALL PROVIDE ACCESS FOR SPECIAL INSPECTION AS NEEDED. CONTRACTOR SHALL PROVIDE A MANLIFT AND OPERATOR TO ASSIST THE SPECIAL INSPECTOR TO ACCESS ITEMS TO BE INSPECTED.

SPECIAL INSPECTIONS - STEEL TABLE

ITEM	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY
High Strength Bolts	Verify identification markings conform to ASTM standards specified in the Construction Documents.	Periodic
	Verify Bearing-Type Connections bolts, nuts, washers, paint, installation, and tightening conform to their respective standards.	Periodic
Welds	Verify Welder and Welding Inspector Qualifications and verify use of proper WPS's	Periodic
	Verify identification markings of Weld Filler Materials for field installed welds conform with AWS Specifications and the Construction Documents.	Periodic
	Inspection of field installed Single Pass fillet welds not greater than 5/16".	Periodic
Structural Steel Framing (Walers)	Inspection of field installed Complete and Partial Joint Penetration groove welds and single or multipass fillet welds greater than 5/16".	Periodic
	Verify identification markings conform to ASTM standards specified in the Construction Documents.	Periodic
	Inspection of Steel Framing for compliance with Construction Documents for member sizes and locations, bracing, stiffeners, and connections in accordance with the quality assurance inspection requirements of AISC 360.	Periodic

SPECIAL INSPECTIONS - SOILS TABLE

ITEM	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY
Materials	Perform classification and testing of compacted fill materials.	Periodic
	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill in accordance with the Geotechnical Report.	Continuous
Sampling and Testing	Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	Periodic



SPECIAL INSPECTIONS - SHEET PILE TABLE

ITEM	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY
Materials	Verify element materials, sizes, and lengths comply with the requirements.	Periodic
Equipment	Inspect driving operations and maintain complete and accurate records for each element.	Periodic
Installation	Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, record tip and butt elevations and document any damage to element. Review contractors daily logs for conformance with construction documents.	Periodic

ABBREVIATIONS

&	AND	HORIZ. (H)	HORIZONTAL
A.B.	ANCHOR BOLT	H.S.B.	HIGH STRENGTH BOLT
ALT.	ALTERNATE	HT.	HEIGHT
ARCH.	ARCHITECT	I.F.	INSIDE FACE
ARCHL.	ARCHITECTURAL	I.D.	INSIDE DIAMETER
@	AT	JST.	JOIST
B.O.F.	BOTTOM OF FOOTING	KB.	KNEE BRACE
BLDG.	BUILDING	LB.	LAG BOLT
BLK.	BLOCK	LG.	LONG
BM.	BEAM	L.L.	LIVE LOAD
B.N.	BOUNDARY NAIL	LLH.	LONG LEG HORIZONTAL
B.O.	BOTTOM OF	LLV.	LONG LEG VERTICAL
BTM.	BOTTOM	LONGIT.	LONGITUDINAL
BRG.	BEARING	L.P.	LOW POINT
BRDG.	BRIDGING	L.W.C.	LIGHT WEIGHT CONCRETE
BT.	BENT	MAS.	MASONRY
C.B.	CARRIAGE BOLT	MAX.	MAXIMUM
C.J.	CONSTRUCTION JOINT	MECH.	MECHANICAL
CL. (c)	CENTERLINE	MIN.	MINIMUM
CLR.	CLEAR	N.I.C.	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	NO. (#)	NUMBER
COL.	COLUMN	N.T.S.	NOT TO SCALE
COLS.	COLUMNS	O.C.	ON CENTER
CONC.	CONCRETE	O.F.	OUTSIDE FACE
CONT.	CONTINUOUS	O.H.	OPPOSITE HAND
COORD.	COORDINATE	OPNG.	OPENING
CSK.	COUNTERSINK	OVHD.	OVERHEAD
CTR.	CENTER	PL (s)	PLATE
d	PENNEY (NAILS)	PLY.	PLYWOOD
DBL.	DOUBLE	P.S.F.	POUNDS PER SQUARE FOOT
D.F.L.	DOUGLAS FIR LARCH	P.S.I.	POUNDS PER SQUARE INCH
DIA. (Ø)	DIAMETER	P.T.	PRESSURE TREATED
DIAPH.	DIAPHRAGM	P.T.S.	POST TENSION SLAB
D.L.	DEAD LOAD	REINF.	REINFORCING
do.	DITTO	R.O.	ROUGH OPENING
DEP.	DEEP	SCH.	SCHEDULE
DWG.	DRAWING	SHT.	SHEET
DWLS.	DOWELS	SIM.	SIMILAR
EA.	EACH	SIMP.	SIMPSON CONNECTOR
EA. END	EACH END	SPC'G.	SPACING
EA. SIDE	EACH SIDE	STAGG.	STAGGERED
E.B.	EXPANSION BOLT	STD.	STANDARD
ELEV.	ELEVATION	STIFF.	STIFFENER
E.F.	EACH FACE	STR.	STRUCTURAL
E.N.	EDGE NAIL	THK.	THICK
E.W.	EACH WAY	THRU.	THROUGH
EX.	EXISTING	T. & B.	TOP & BOTTOM
F.B.	FLAT BAR	T.N.	TOE NAIL
FDN.	FOUNDATION	T.O.	TOP OF
FIN.	FINISHED	T.O.B.	TOP OF BEAM
FLR.	FLOOR	T.O.F.	TOP OF FOOTING
F.N.	FIELD NAILING	T.O.G.	TOP OF GIRT
F.O.C.	FACE OF CONCRETE	T.O.M.	TOP OF MASONRY
F.O.M.	FACE OF MASONRY	T.O.S.	TOP OF STEEL
F.O.S.	FACE OF STUDS	T.O.W.	TOP OF WALL
FTG.	FOOTING	TRANSV.	TRANSVERSE
F.V.	FIELD VERIFY	T.SL.	TOP OF SLAB
GA.	GAUGE	TYP.	TYPICAL
GALV.	GALVANIZED	U.O.N.	UNLESS OTHERWISE NOTED
G.C.	GENERAL CONTRACTOR	VERT. (V)	VERTICAL
GLB.	GLUE-LAMINATED BEAM	W/	WITH
HDR.	HEADER	WD.	WOOD
HGR.	HANGER	W.W.F.	WELDED WIRE FABRIC

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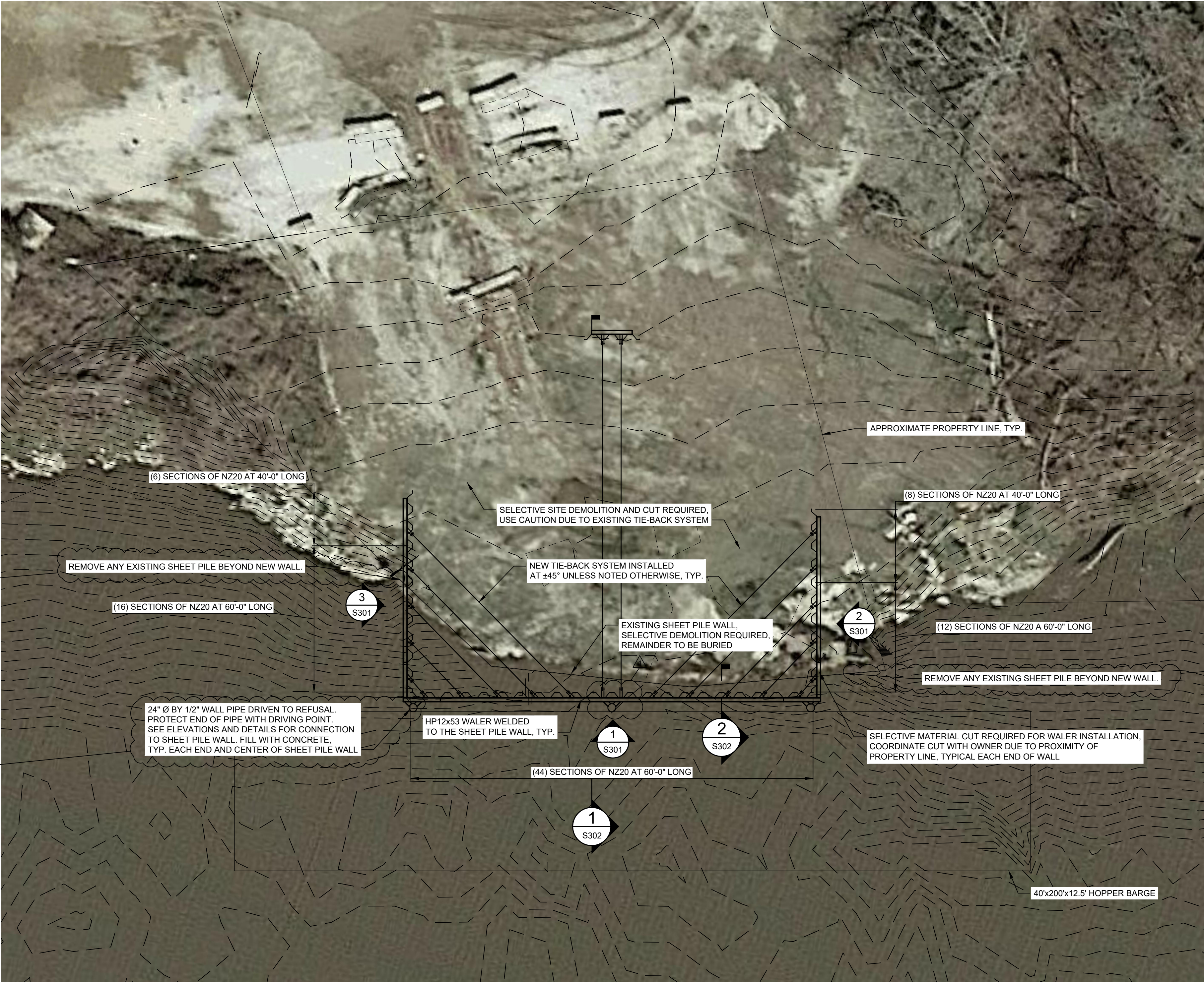
REVISION HISTORY			
MARK	DESCRIPTION	DATE	APPR
Δ	SHEET PILE WALL NOTATION, ADDITIONAL PIPE PILE, AND RIP-RAP DELETE AT TOE	02/09/21	AMB

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No. E-000866



WHARF DOCK REPLACEMENT PROJECT
HOWARD-COOPER COUNTY
REGIONAL PORT AUTHORITY
BOONVILLE, MO

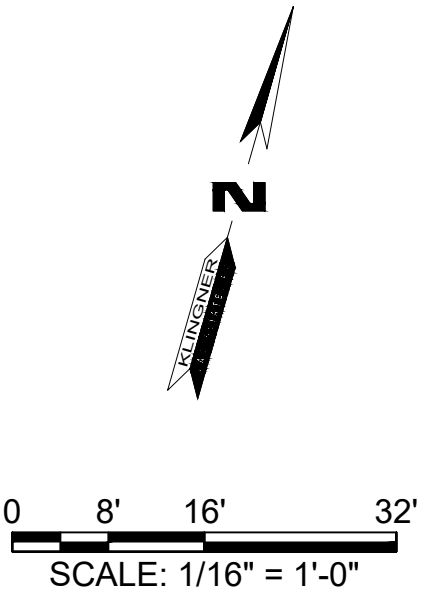
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FIELD	FIELD BOOK
CHECKED KTH	CHECK DATE 01/14/2021
SHEET TITLE	
STRUCTURAL NOTES	
PROJECT NO. 20-0330	
DRAWING ISSUED DATE: 01/25/2021	
SHEET	
S001	



STRUCTURAL SITE PLAN

1/16" = 1'-0"

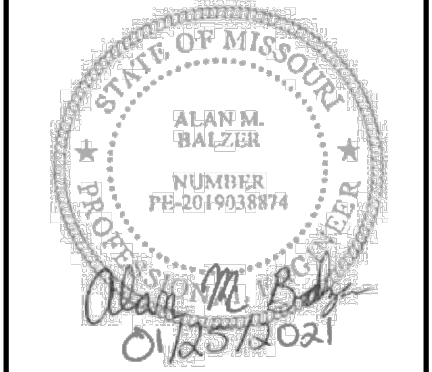
- NOTES:
1. PROPOSED GRADES ARE NOT SHOWN FOR CLARITY, COORDINATE WITH CIVIL DRAWINGS.
 2. EXISTING TIE-BACK SYSTEM PRESENT. CONTRACTOR TO USE CAUTION WHEN INSTALLING NEW TIE-BACK SYSTEM AND AVOID EXISTING SYSTEM.
 3. PROPERTY LINES ARE APPROXIMATE. CONTRACTOR TO CONFIRM PROPERTY LINE LOCATIONS WITH OWNER PRIOR TO START OF CONSTRUCTION.



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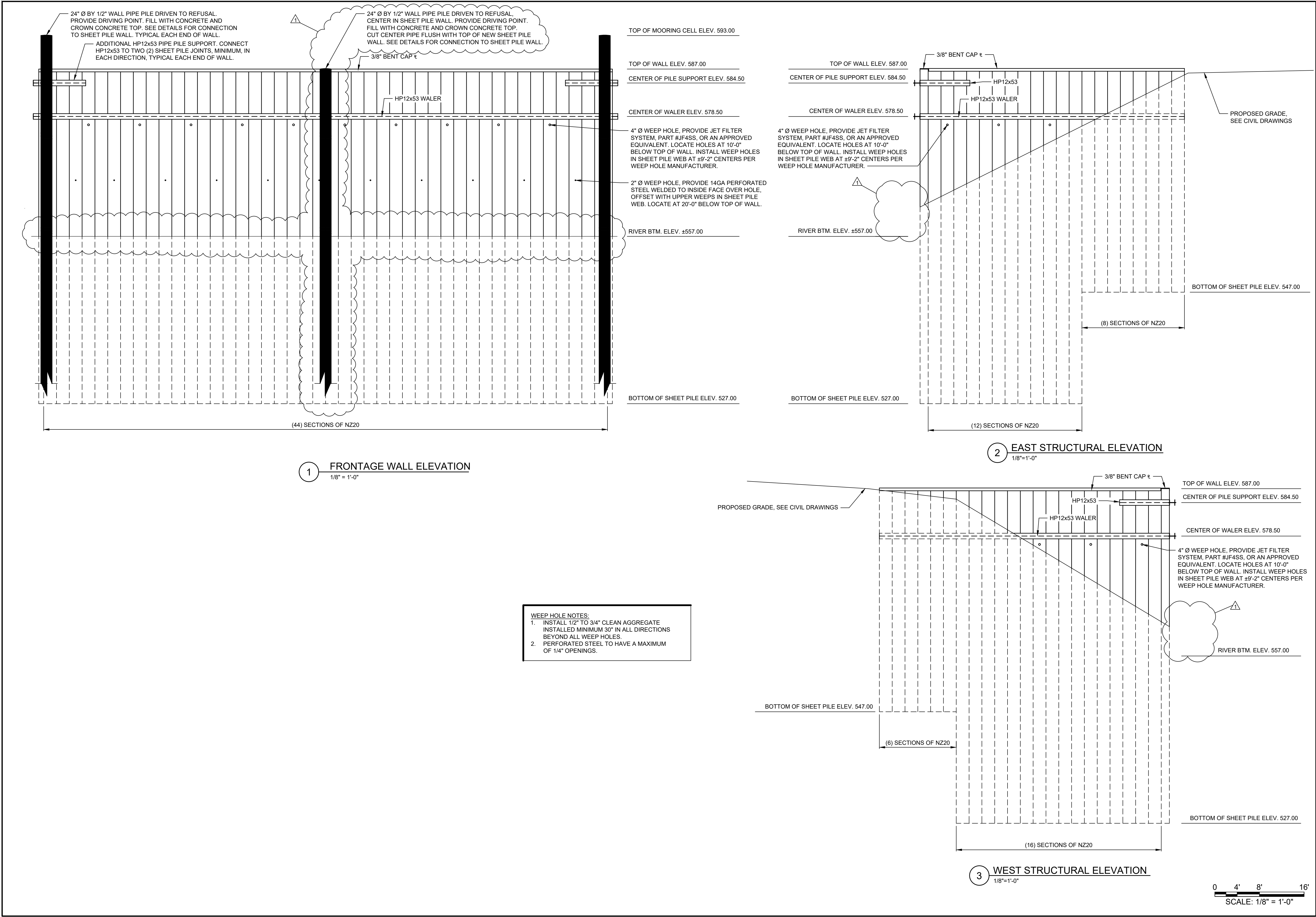
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WHARF DOCK REPLACEMENT
PROJECT
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BOONVILLE, MO

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WHARF DOCK STRUCTURAL PLAN	
PROJECT NO. 20-0330	
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SHEET	
S101	

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STATE OF MISSOURI
ALAN M. BALZER
NUMBER
PE-2019038974
01/25/2021

WHARF DOCK REPLACEMENT PROJECT
HOWARD-COOPER COUNTY
REGIONAL PORT AUTHORITY
BOONVILLE, MO

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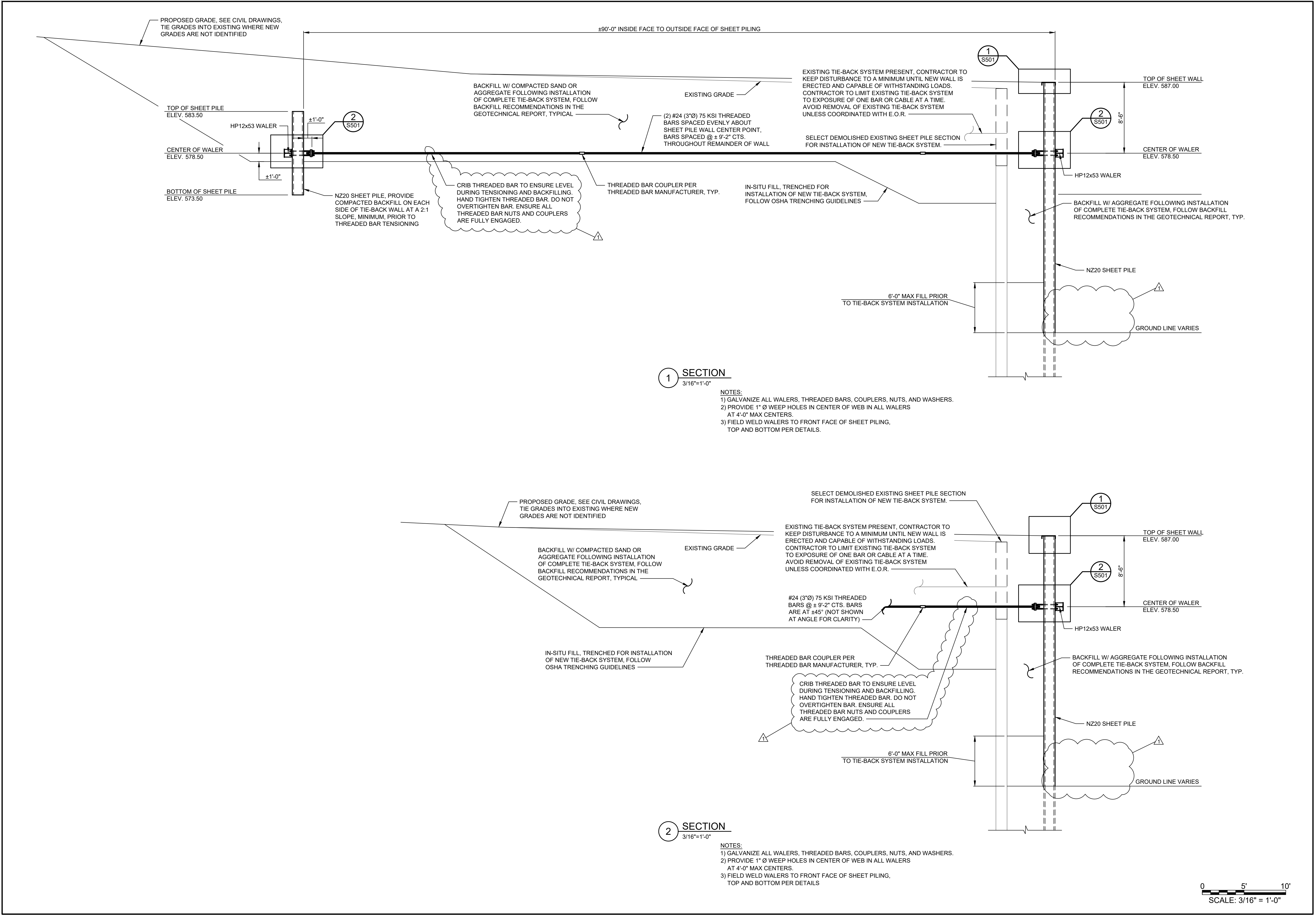
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WHARF DOCK STRUCTURAL ELEVATIONS

PROJECT NO.
20-0330

DRAWING ISSUED DATE:
01/25/2021

SHEET
S301

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WHARF DOCK STRUCTURAL SECTIONS

PROJECT NO.

20-0330

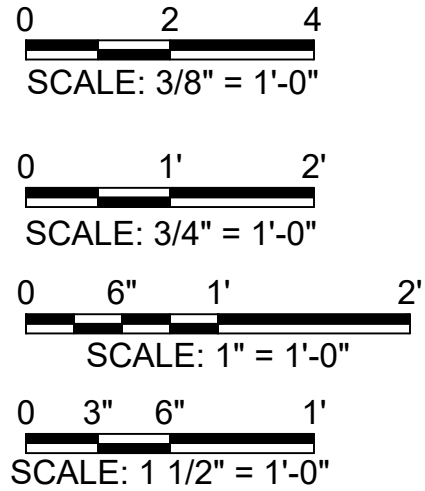
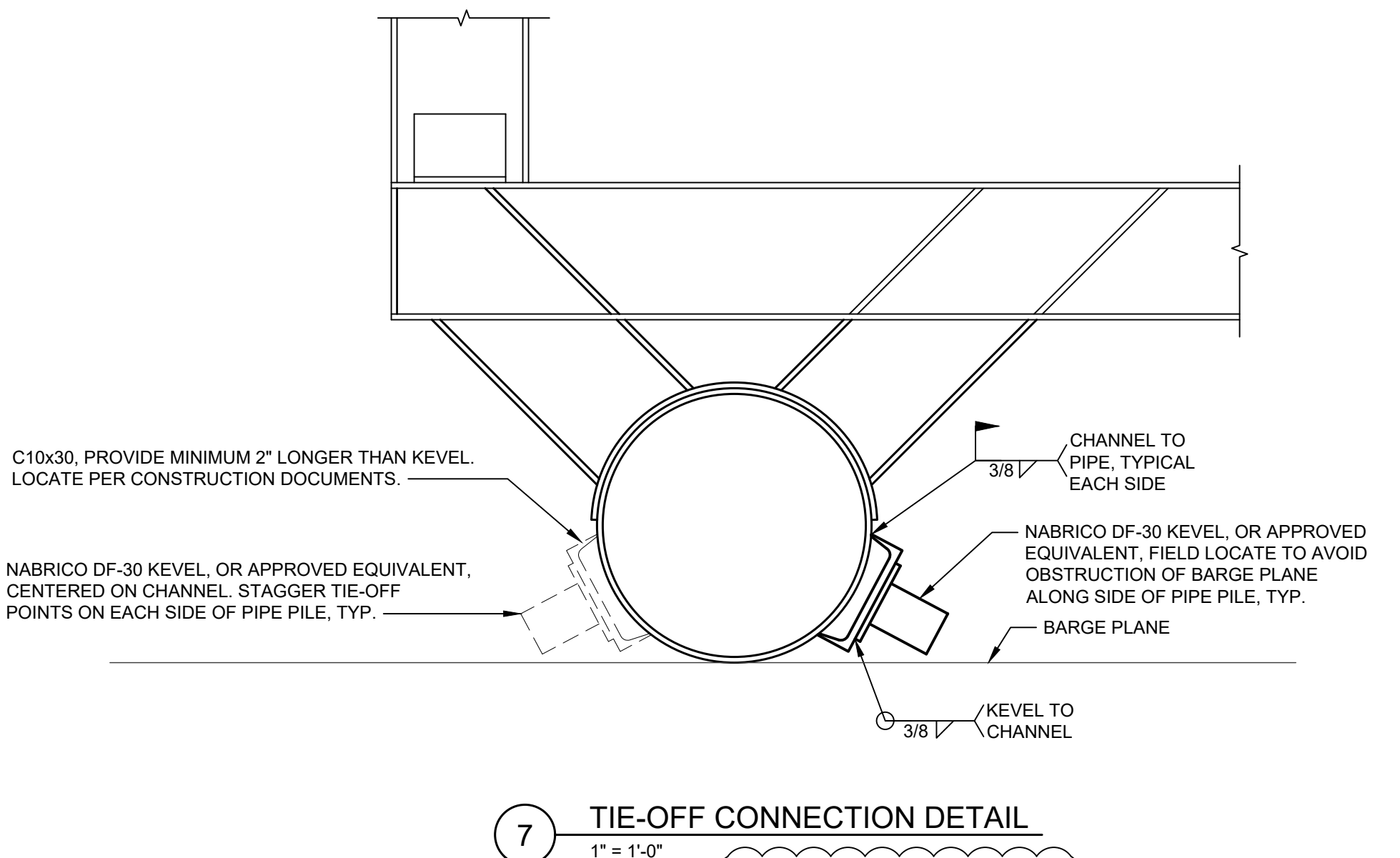
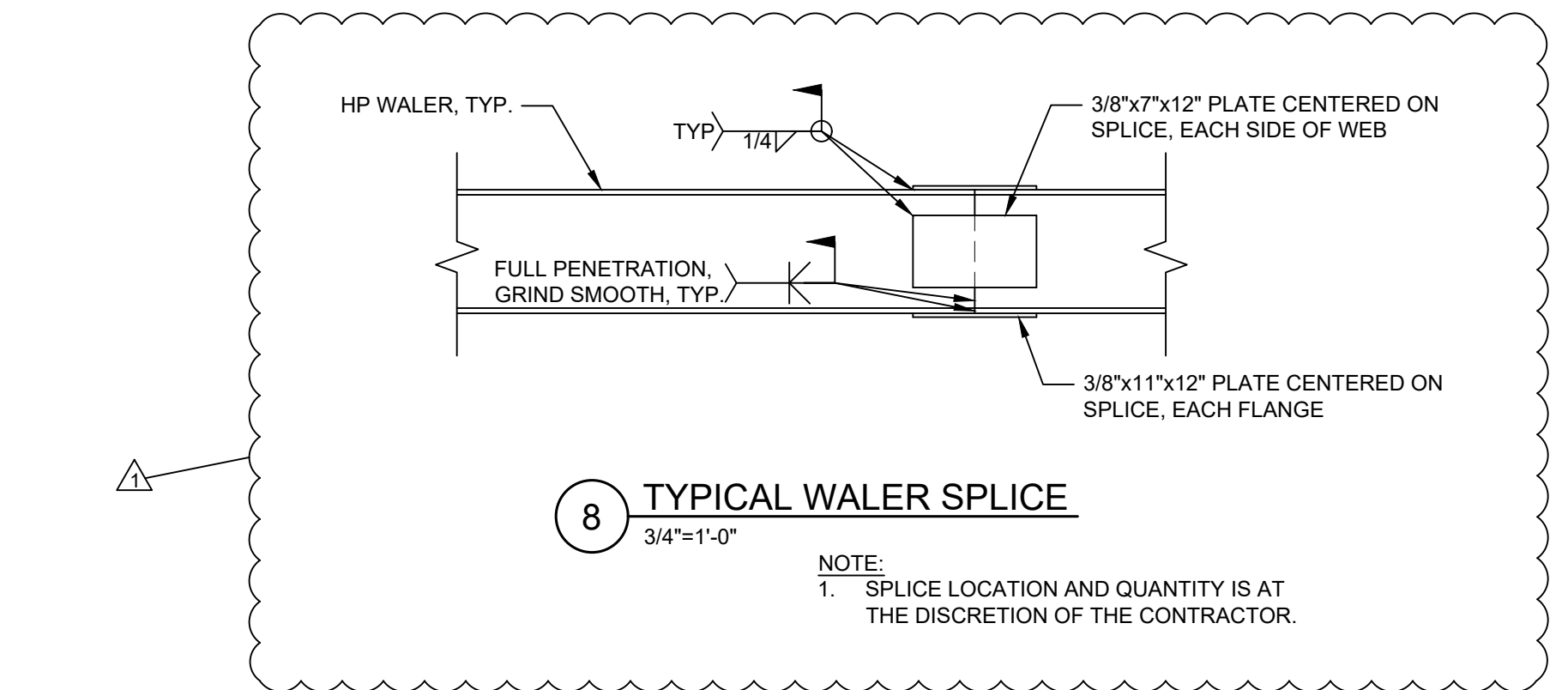
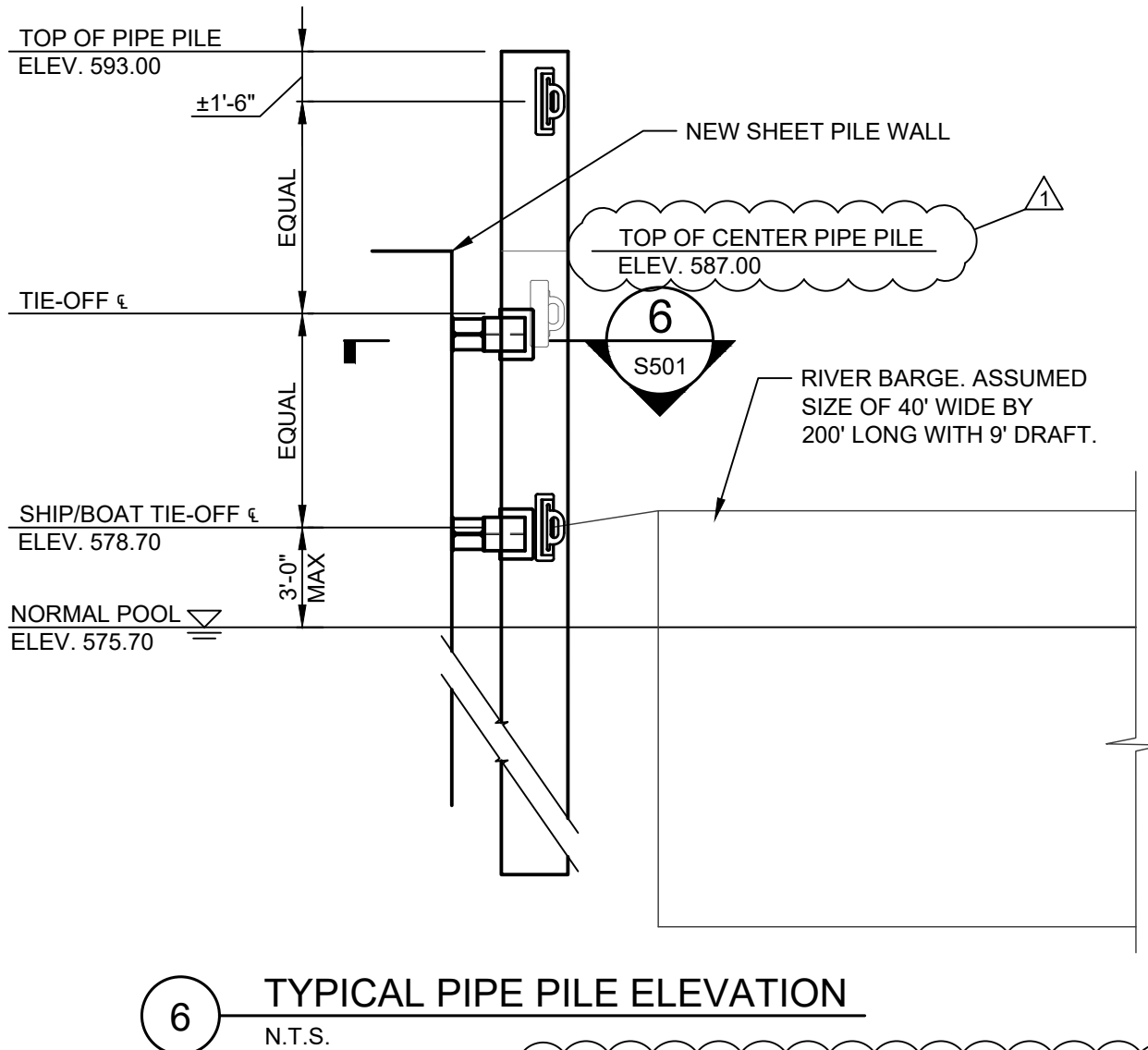
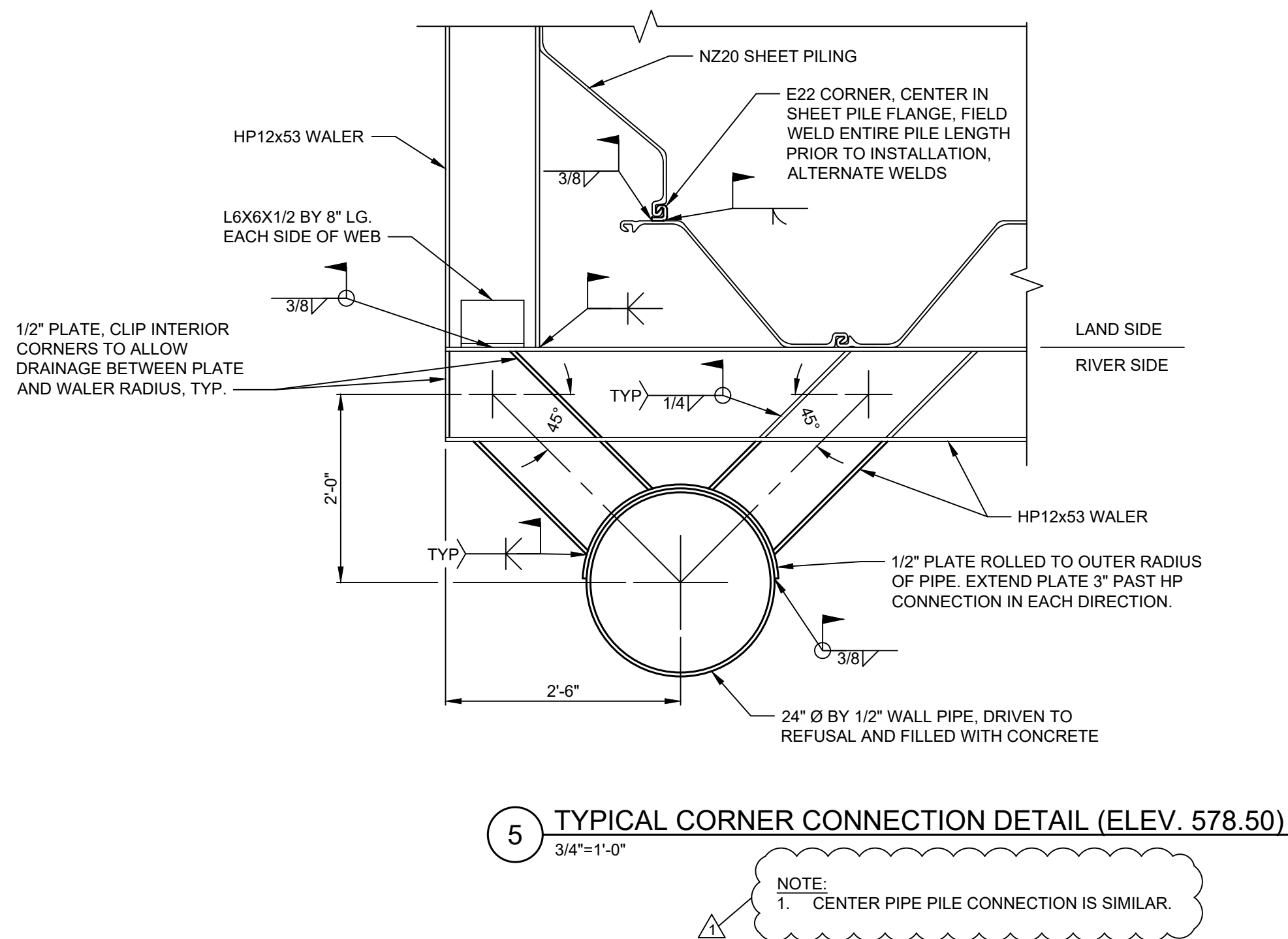
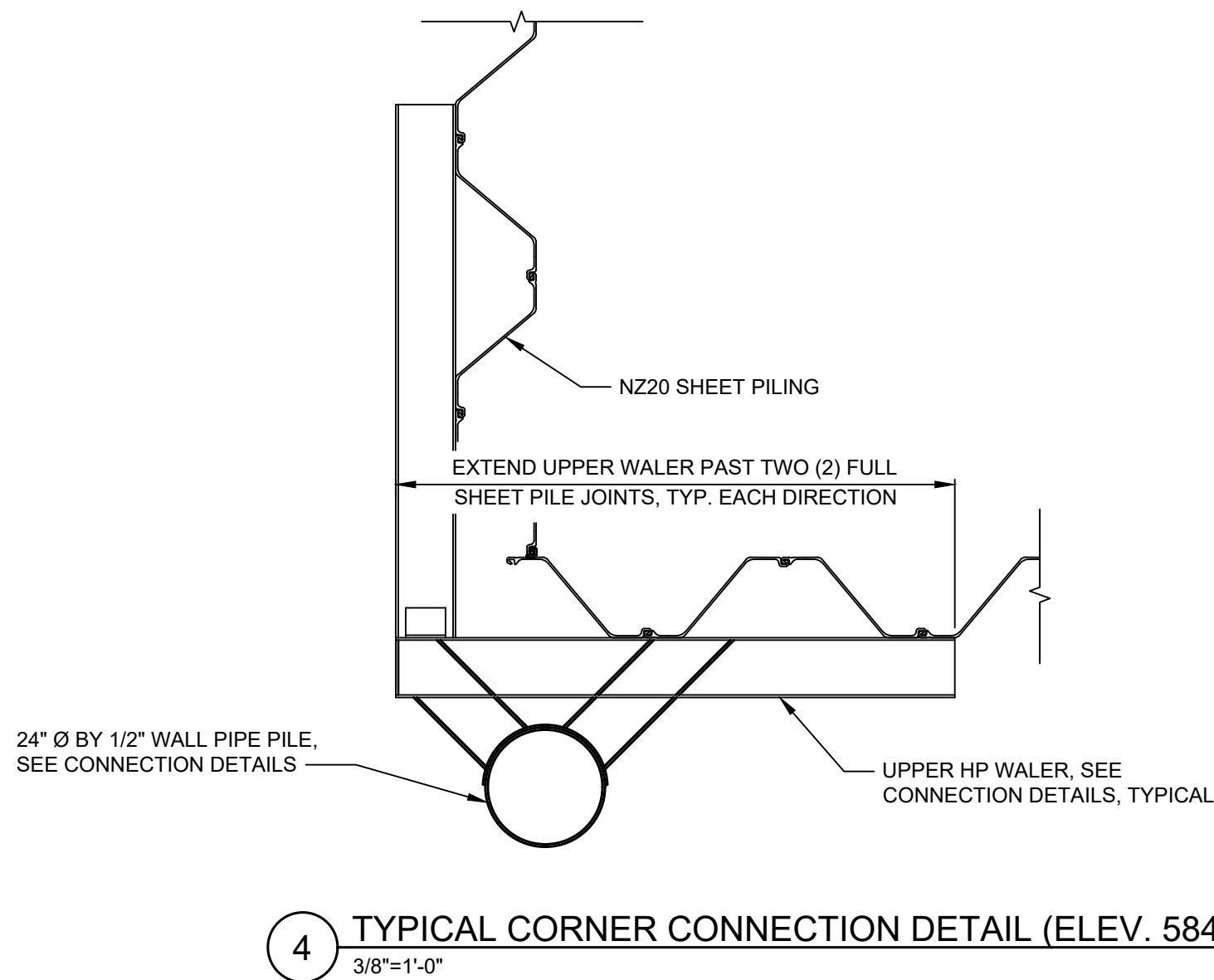
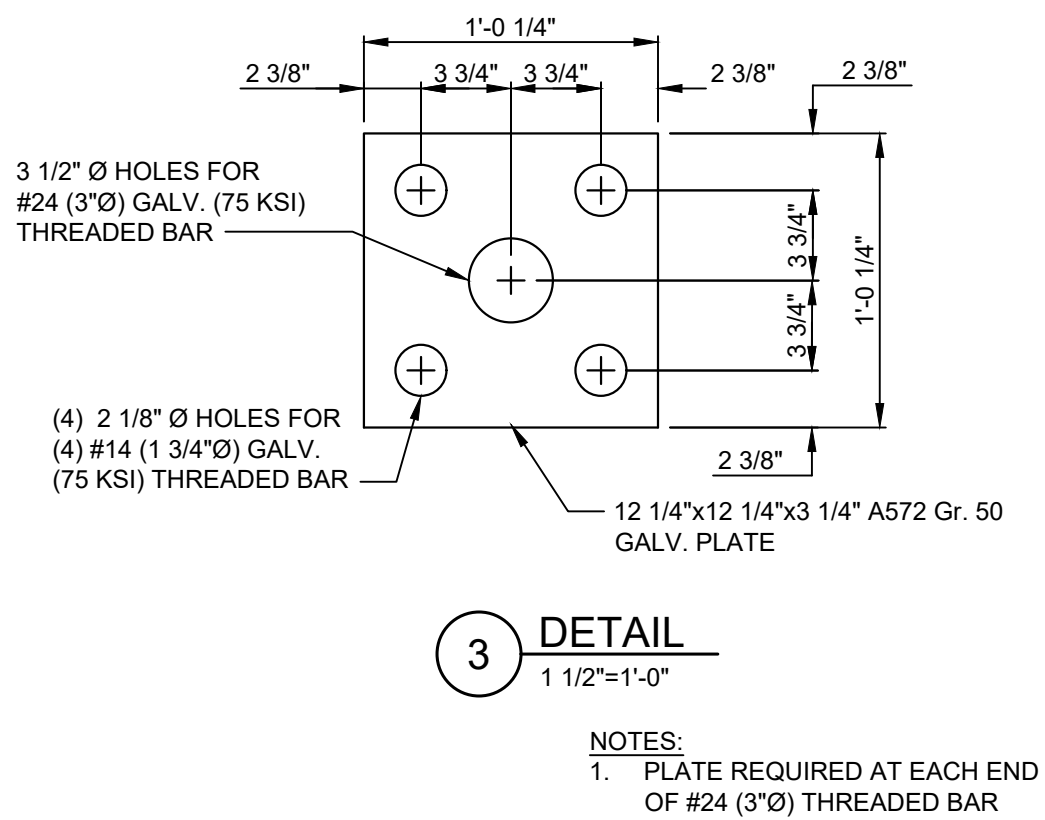
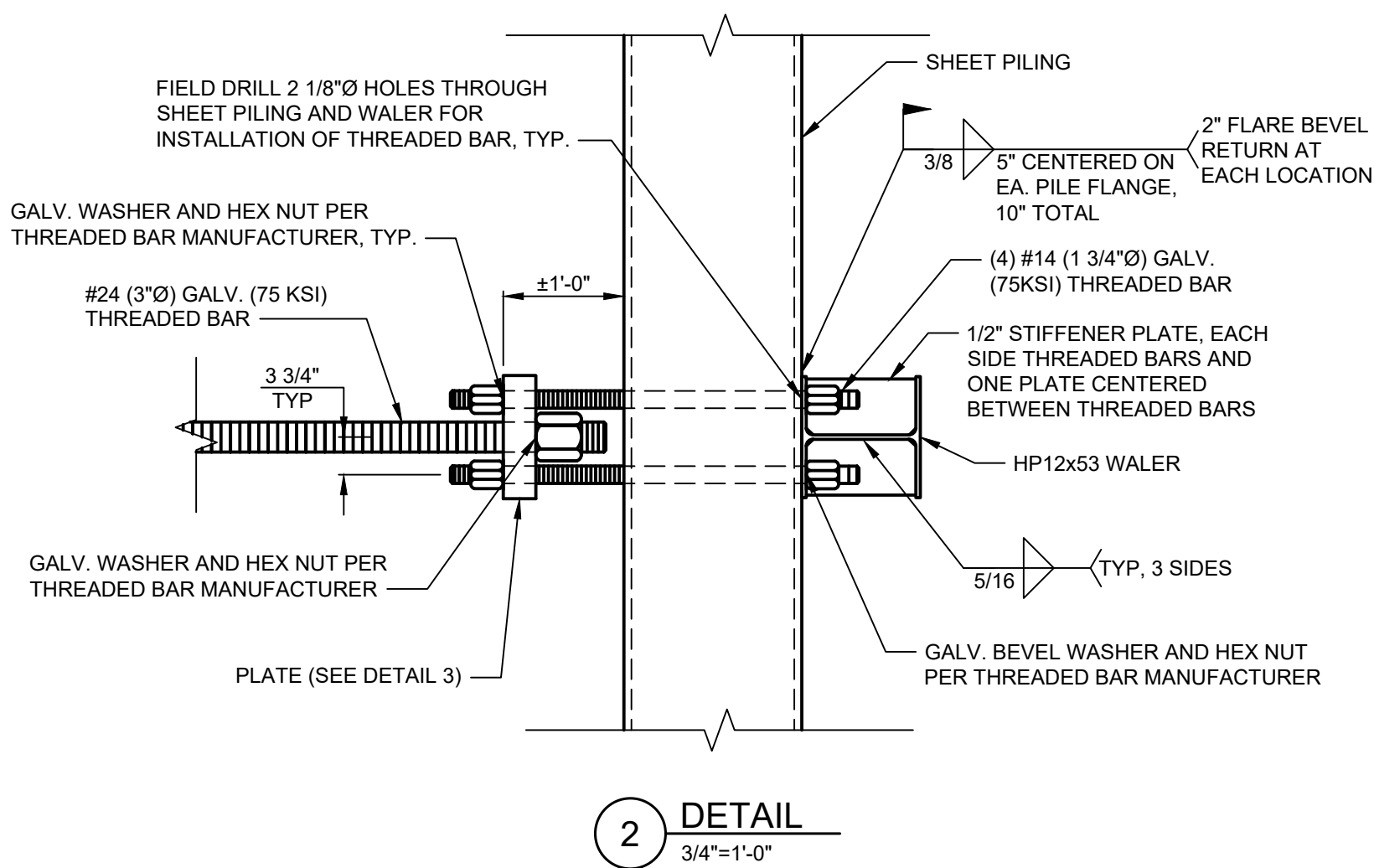
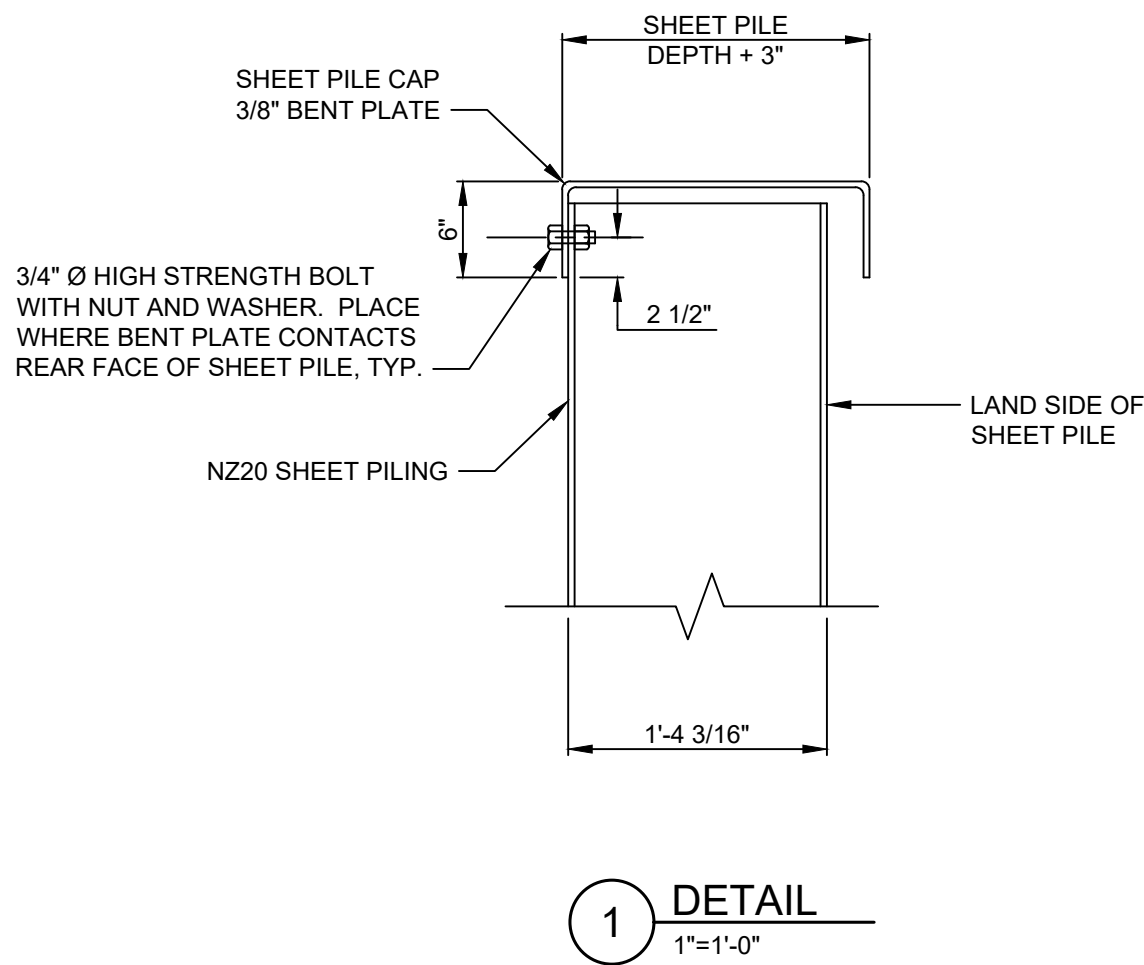
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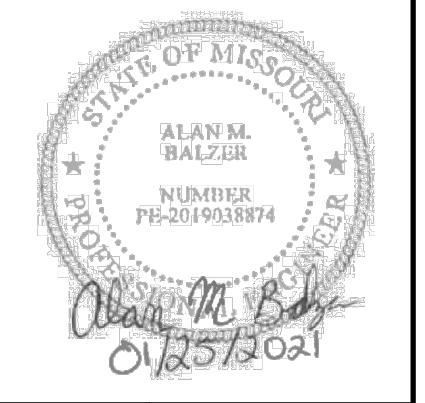
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WHARF DOCK REPLACEMENT PROJECT
HOWARD-COOPER COUNTY
REGIONAL PORT AUTHORITY
BOONVILLE, MO

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WHARF DOCK STRUCTURAL DETAILS	
PROJECT NO. 20-0330	
DRAWING ISSUED DATE: 01/25/2021	
SHEET	
S501	