



ADDENDUM #3

Eddyville Riverport & Industrial Development Authority (ERIDA)
ERIDA – Dolphins Project
Eddyville, Kentucky

BFW Project # 25223

Date: June 26, 2026

Attention: Bidders of above referenced project

This document contains responses to remaining questions submitted to date and a special note amending the bid date.

Special Note:

Please be advised the bid has been changed from July 7, 2026 @ 7:30 AM CST and are now due by **August 4, 2026 @ 7:30 AM CST**.

The Final Completion Date has been amended to no later than December 23, 2026.

Questions and Answers:

Q1: Drawing S1.1 -Structural and Misc. Steel note 4 says see shop primer specification. Spec. Section 051200 Part 2 does not include paint or primer material requirements. Can the primer and pant material requirements or specifications be provided?

[Please find the attached spec section 099626](#)

Q2: Project Manual – Page 11 Section 8 – BFW drawings are for reference only. Does that mean that the dolphin design is a delegated design to the contractor?

[No, a stamped set is provided with this addendum.](#)

Q3: Please provide the mooring, berthing, and environmental load conditions that the dolphins were designed to resist.

[The controlling load of the structure was a horizontal Wind Load of 67 kips \(service load\) in any direction on the plumb pile at one anchorage point due to wind on an empty group of barges.](#)

Q4: Will the project manual and the drawings be signed/sealed by a Professional Engineer prior to submitting bids?

Stamped drawings are provided by attachment to this addendum.

Q5: Would the port entertain alternative dolphin design concepts? If so, should this approach be submitted as an alternate alongside the base bid?

Alternate delegate designs of dolphins are acceptable. Delegated designs shall be stamped by a professional engineer licensed in the Commonwealth of Kentucky.

Q6: Please confirm dolphins are to be constructed per plan drawing S1.1.

Yes

Q7: See detail 1 and detail 3 of plan drawing S1.1. Are the vertical plates at the top of the dolphin to be 2' tall as per Typical Detail 1 or 36" tall per Top of Upper Brace Plan Detail 3?

24" tall. Detail 3/S1.1 has been revised accordingly.

Q8: See detail 1 of plan drawing S1.1. Are there 6 ea. D-rings or 12 ea. Per dolphin? Is there a specification for these D-rings?

12 each. Notes in detail 1 have been revised to clarify. Provide 50-ton capacity D-ring.

Q9: Is there a specification for the Barge Haul U-Bolt shown on plan drawing S1.1?

Provide 50-ton capacity U-bolt.

Q10: See General Notes of plan drawing S1.1, Note 11. In the field, cutting of the horizontal brace pipes, angles and plates will likely need to be cut to fit. Please consider removing this note.

Note has been removed.

Q11: See plan drawing S1.1. Please confirm the Steel Ladder is not part of this contract.

Steel ladder is part of this scope, but it is a delegated design per provided spec 055000. We have revised the note in detail 1 to clarify.

Q12: Were the borings provided taken at the Dolphin locations 1 through 4?

Yes.

Q13: Specification section 051200, paragraph 1.6 A and B seem to be excessive for the type of work to be performed. Please consider removing them from the contract requirements.

We removed “10 years of” from sections 1.6A and 1.6B.

Q14: Is the HSS 12 ¾” OD x ½” wall a square tube or pipe?

It is an HSS pipe.

Q15: Please provide the following geotechnical information for each Soil Layer/Stratum:

- a. Unit Weight
- b. Undrained Shear Strength (if clay soils are present)
- c. Phi Angles
- d. K (soil modulus parameter)
- e. Estimated Skin Friction Values
- f. Pile End-Bearing Capacity
- g. Was a Pile Drivability analysis completed? If so, please provide the results.

Boring logs and complete laboratory testing results have been included in this Addendum. The Contractor’s Engineer of Record is responsible for interpreting the provided subsurface data and developing all geotechnical design parameters required by the Contractor, including those listed in items 1 through 6 of this RFI.

A drivability analysis was not performed as part of the Owner’s design scope and is the responsibility of the Contractor’s Engineer of Record.

Q16: Would Vessel Pollution Insurance be a suitable alternative to Pollution Legal Liability Insurance?

Yes, Vessel Pollution Insurance is a suitable alternative to Pollution Legal Liability Insurance.

Q17: Marine Solutions would like to request a two-week extension for bids to be due on July 21st.

Bid date has changed to due by **August 4, 2026 @ 7:30 AM CST.**

Q18: Please confirm what NDT/CWI testing is required for this project, both in the field and at the supplier/fabricator.

This is covered in the additional specs and the Special Inspections table from Drawing S1.1.

Q19: Please confirm the mailing address for the port for our bid package to be sent to via FedEx.

The address below should be used for in person or private service (Fedex, UPS, DHL or similar service):

Eddyville Riverport and Industrial Development Authority
630 W Dale Avenue
Eddyville, KY 42038

The address below should be used for United States Postal Service (USPS) deliveries:

Eddyville Riverport and Industrial Development Authority
P.O. BOX 1057
EDDYVILLE, KY 42038

Attachment Summary

1. Specification 099626 – Paints & Coatings
2. Specification 316216 – Steel Piles
3. S1.1 Stamped
4. Lab Testing Summary

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SECTION 099626

PAINTS AND COATINGS

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Coatings of structural column.
- B. Surface preparation.
- C. Field application of paints and other coatings.

1.02 RELATED SECTIONS

- A. Section 31 62 16 – Steel Piling

1.03 REFERENCES

- A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency; current edition.
- B. ASTM D 16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2003.
- C. Green Seal Environmental Standards, GS-11, Paints (1993) and GC-03, Anti-Corrosive Paints (1997).
- D. The Society for Protective Coatings, SSPC

1.04 DEFINITIONS

- A. Conform to ASTM D 16 for interpretation of terms used in this section.
- B. Volatile Organic Compounds (VOCs): Compounds as defined by U.S. Environmental Protection Agency (EPA) in 40 CFR Section 51.100 (s), (s) (1).
- C. Aromatic Compounds: Hydrocarbon compounds containing one or more 6-carbon benzene rings in the molecular structure.
- D. DFT: Dry Film Thickness
- E. Paint as used herein means all coating systems, materials, which includes primers, emulsions, enamels, sealers and fillers and other applied materials whether used as prime, intermediate or finish coats.

PAINTS AND COATINGS

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- F. Float Surface: All exposed surfaces including removable steel cover and hardware, but not including sides and ends.

1.05 SUBMITTALS

- A. See General Conditions for submittal procedures.
- B. Product Data: Provide data on all finishing products, including VOC content.
- C. Manufacturer's Certificate: Certify that products furnished meet or exceed specified requirements.
- D. Manufacturer's Instructions: Indicate special surface preparation procedures.
- E. Basin Protection Plan: Indicate plan to protect water in the basin from spills or drips.
- F. Submit manufacturer's color charts in duplicate to the Owner's Representative within 30 days after the award of the contract and material approval. Include schedule of paint materials to be used.
- G. Colors will be selected by the Owner's Representative and submitted to the Contractor in scheduled form.

1.06 QUALITY ASSURANCE

- A. Applicator Qualifications: Company specializing in performing the work of this section with minimum five years documented experience.
- B. Use only qualified journeyman painters for the mixing and application of paint on exposed surfaces; in the accepting or rejection of installed painting no allowance will be made for lack of skill on the part of painters.
 - 1. Certain manufacturer's products are specified herein to simplify description of types and qualities of finishes required. Only the highest quality materials are acceptable.
 - 2. Only top quality premium grade products shall be accepted. No painter's or maintenance products are permitted.
- C. Products of the following manufacturers are acceptable:
 - 1. The Sherwin Williams Paint Company
 - 2. Tnemec
 - 3. Others as previously approved by the Owner's Representative

1.07 DELIVERY, STORAGE, AND PROTECTION

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.08 ENVIRONMENTAL REQUIREMENTS

- A. Application Requirements:
 - 1. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
 - 2. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.

1.09 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Delivery of Materials:
 - 1. Deliver all materials to job site in original new and unopened packages and containers bearing the following information.
 - a. Manufacturer's name and stock number.
 - b. Name and title of material.
 - c. Contents by volume for major pigment and vehicle constituents.
 - d. Federal Specification numbers, if applicable.
 - e. Thinning and application instructions.
- B. Storage of Materials and Equipment:
 - 1. Store materials not in actual use:
 - a. In tightly covered containers;
 - b. In dry cool storage spaces with adequate fire and safety precautions.

1.10 JOB CONDITIONS

- A. Protection:
 - 1. Deliver material to the project site in strong, undamaged, waterproof containers with manufacturer's labels intact. Material in previously opened or unsealed containers are not acceptable.

- a. Correct any damage by cleaning, repairing or replacing, and repainting, as directed by the Owner's Representative.
2. Upon completion, remove temporary protective wrappings provided for the protection of others' work.

PART 2 – PRODUCTS

2.01 PAINTS AND COATINGS

A. Coal Tar Epoxy for Structural Columns

1. Surface Preparation: SSPC SP6 Commercial blast cleaning; any surface blasted shall be coated the same day. If prepared surfaces are contaminated by rust or other contaminants, they must be reblasted.
2. Coating shall involve a minimum of two coats of 10-mil dry coat thickness Coal Tar Epoxy Coating per manufacturer's recommendations.

PART 3 – EXECUTION

3.01 GENERAL

- A. Fuel tank float shall be factory painted. No onsite production painting will be allowed.
- B. Examine all surfaces to see that they are in proper condition to be finished before proceeding with the work. Starting work will constitute the painter's acceptance of preceding work and conditions under which finish will be applied and his assumption of responsibility for results to be obtained.
- C. Number of coats and quality of finish shall be in accordance with these specifications, which require the use of materials which will produce first quality finish if properly applied.
- D. Protect the work of this section and work of others during progress against damage and promptly repair such damage should any occur. Cover factory finished members with heavy paper and masking tape. Do not allow masking tape to touch finished surfaces.

3.02 EXAMINATION

- A. Verify that surfaces are ready to receive Work as instructed by the product manufacturer.
- B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- C. Test shop-applied primer for compatibility with subsequent cover materials.

3.03 PREPARATION – STRUCTURAL COLUMNS AND MEMBERS

- A. Protect surfaces not to be painted and surrounding environment, including harbor basin.
- B. Surface preparation for immersed surfaces; SSPC-SP10/NACE 2 Near-White Blast Cleaning.
- C. Surface preparation for non immersion service; SSPC-SP6/NACE 3 Commercial Blast Cleaning
- D. Surfaces: Correct defects and clean surfaces which affect work of this section. Remove or repair existing coatings that exhibit surface defects.
- E. Marks: Seal with shellac those which may bleed through surface finishes.
- F. Shop-Primed Steel Surfaces to be Finish Painted:
 - 1. Sand and scrape to remove loose primer and rust.
 - 2. Feather edges to make touch-up patches inconspicuous.
 - 3. Clean surfaces with solvent.
 - 4. Prime bare steel surfaces.
 - 5. Re-prime entire shop-primed item if shop prime does not meet primer specifications.

3.04 APPLICATION – STRUCTURAL COLUMNS AND MEMBERS

- A. Apply products in accordance with manufacturer's instructions.
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

3.05 CLEANING

- A. Collect waste material which may constitute a fire hazard, place in closed metal containers, and remove daily from site.
- B. Clean all paint spots from all work and touch up or otherwise repair any defective or damaged work.
- C. Remove all surplus materials and equipment after work is completed.
- D. Leave entire job clean and acceptable to Owner's Representative.
- E. Perform all "touch-up" work necessary after other mechanics have finished their work.

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END OF SECTION 09 96 26

PAINTS AND COATINGS

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SECTION 316216 - STEEL PILES

1.1 SUMMARY

- A. Section includes steel H piles.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For steel piles. Show fabrication and installation details for piles, including details of driving points, splices, and pile caps.
 - 1. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld.

1.4 INFORMATIONAL SUBMITTALS

- A. Welding certificates.
- B. Mill test reports.
- C. Pile-Driving Equipment Data: Include type, make, and rated energy range; weight of striking part of hammer; weight of drive cap; and, type, size, and properties of hammer cushion.
- D. Pile-driving records.
- E. Field quality-control reports.

1.5 QUALITY ASSURANCE

- A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."

PART 2 - PRODUCTS

2.1 STEEL PILES

- A. Structural Steel: ASTM A252 Grade 3.

2.2 PILE ACCESSORIES

- A. Driving Points: Manufacturer's standard one-piece driving point, fabricated from steel castings as follows to provide full bearing of web and flange of pile tip:
- B. Splice Unit: Manufacturer's standard splice unit, fabricated from two connected steel plates, of same material as steel H pile or material of equal strength, shaped to encase web and part of each flange.

2.3 FABRICATION

- A. Pile-Length Markings: Mark each pile with horizontal lines at 12-inch intervals; label the distance from pile tip at 60-inch intervals. Maintain markings on piles until driven.
- B. Fabricate full-length piles by splicing lengths of steel pile together. Accurately mill meeting ends of piles and bevel for welding. Maintain axial alignment of pile lengths. Maintain structural properties of pile across splice.
- C. Fit and weld driving points to tip of pile according to manufacturer's written instructions and AWS D1.1/D1.1M for procedures, appearance and quality of welds, and methods used in correcting welding work.

PART 3 - EXECUTION

3.1 DRIVING PILES

- A. General: Continuously drive piles to elevations or penetration resistance indicated. Establish and maintain axial alignment of leads and piles before and during driving.
- B. Heaved Piles: Redrive heaved piles to tip elevation at least as deep as original tip elevation with a driving resistance at least as great as original driving resistance.
- C. Driving Tolerances: Drive piles without exceeding the following tolerances, measured at pile heads:
 - 1. Location: 4 inches (102 mm) from location indicated after initial driving, and 6 inches (152 mm) after pile driving is completed.
 - 2. Plumb: Maintain 1 inch (25 mm) in 48 inches (1219 mm) from vertical, or a maximum of 4 inches (102 mm), measured when pile is aboveground in leads.
 - 3. Batter Angle: Maximum 1 inch (25 mm) in 48 inches (1219 mm) from required angle, measured when pile is aboveground in leads.
- D. Withdraw damaged or defective piles and piles that exceed driving tolerances, and install new piles within driving tolerances.
- E. Cut off tops of driven piles square with pile axis and at elevations indicated.

- F. Pile-Driving Records: Maintain accurate driving records for each pile, compiled and attested to by a qualified professional engineer.

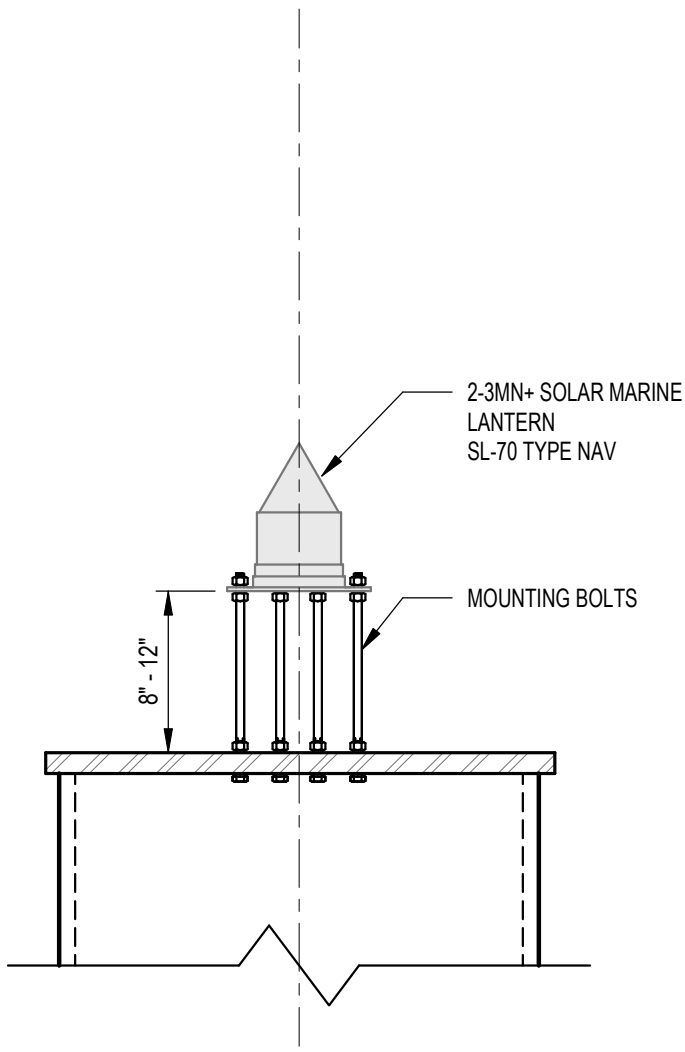
3.2 FIELD QUALITY CONTROL

- A. Special Inspections: Owner will engage a qualified special inspector to perform inspections.
- B. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- C. Tests and Inspections:
 - 1. Dynamic Pile Testing: High-strain dynamic monitoring shall be performed and reported according to ASTM D4945 during initial driving and during restriking on two piles.
 - 2. Weld Testing: In addition to visual inspection, welds shall be tested and inspected according to AWS D1.1/D1.1M.
- D. Steel piles will be considered defective if they do not pass tests and inspections.
- E. Prepare test and inspection reports.

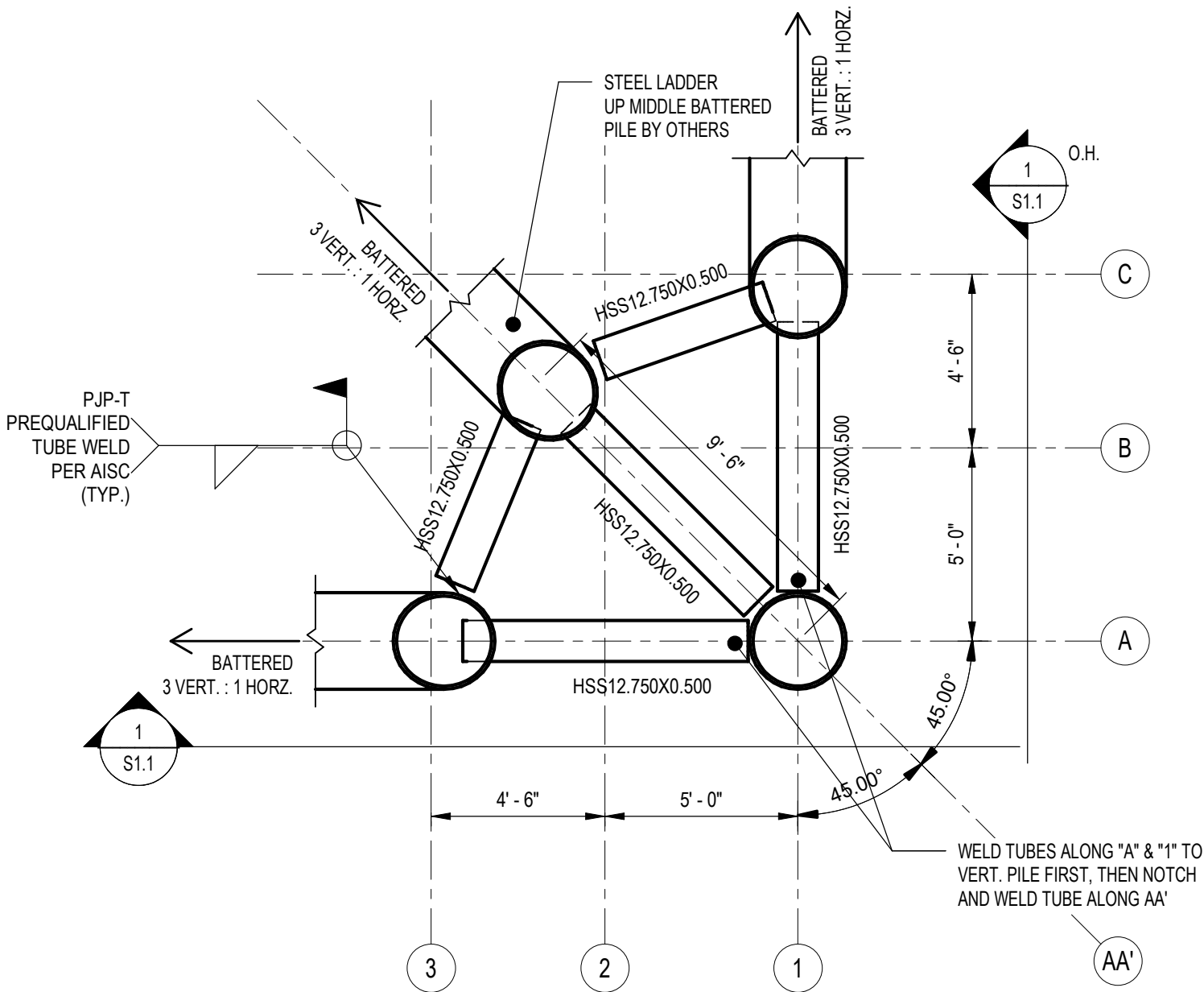
END OF SECTION 316216

SPECIAL INSPECTIONS - STRUCTURAL
PER CHAPTER 17 OF THE 2018 KENTUCKY BUILDING CODE

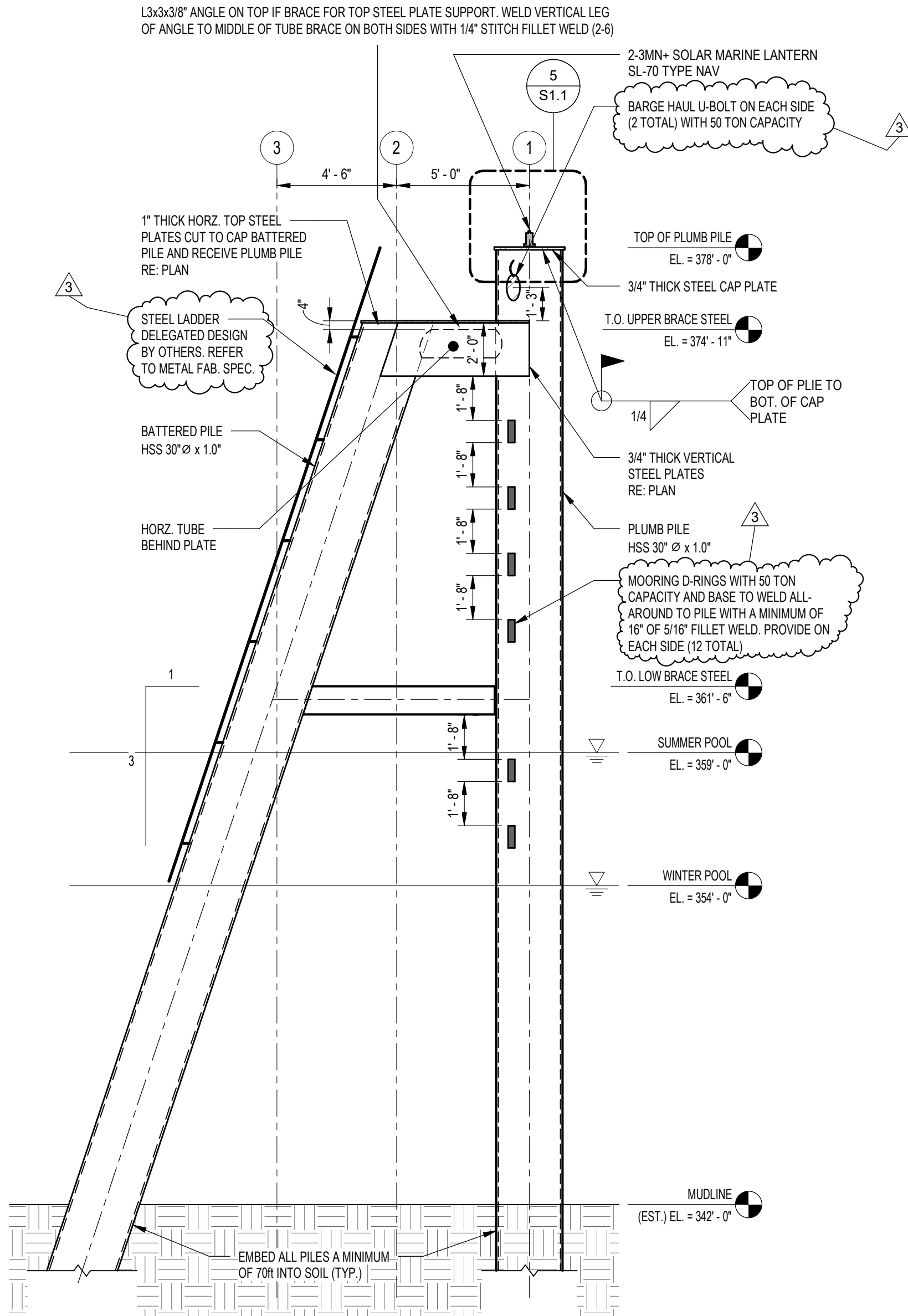
SECTION	ITEM	REQUIRED		REMARKS
		YES	NO	
1704.2.5	FABRICATORS	X		Not req'd if the Fabricator is approved in accordance with Section 1704.2.5.2.
1704.6	STRUCTURAL OBSERVATIONS		X	Not required.
1705.2	STEEL CONSTRUCTION	X		See AISC 360-10 for req'd verifications & inspections.
1705.7	DRIVEN DEEP FOUNDATIONS		X	Not used.



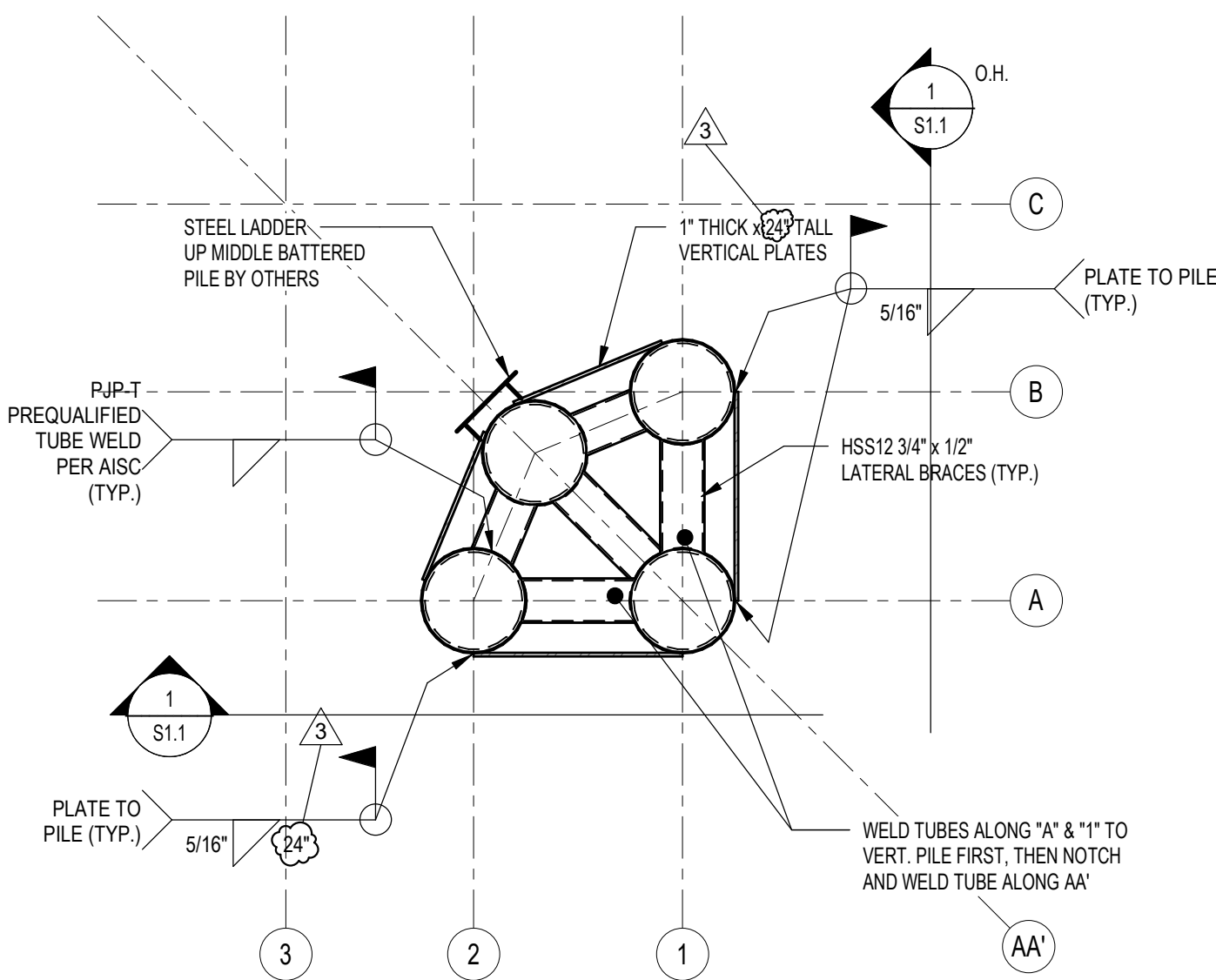
5 TYPICAL DETAIL
NAVIGATION LIGHT MOUNTING



2 TOP OF LOWER BRACE PLAN
SCALE: 1/4" = 1'-0"



1 TYPICAL DETAIL
ELEVATION



3 TOP OF UPPER BRACE PLAN
SCALE: 1/4" = 1'-0"

CODES AND MANUALS

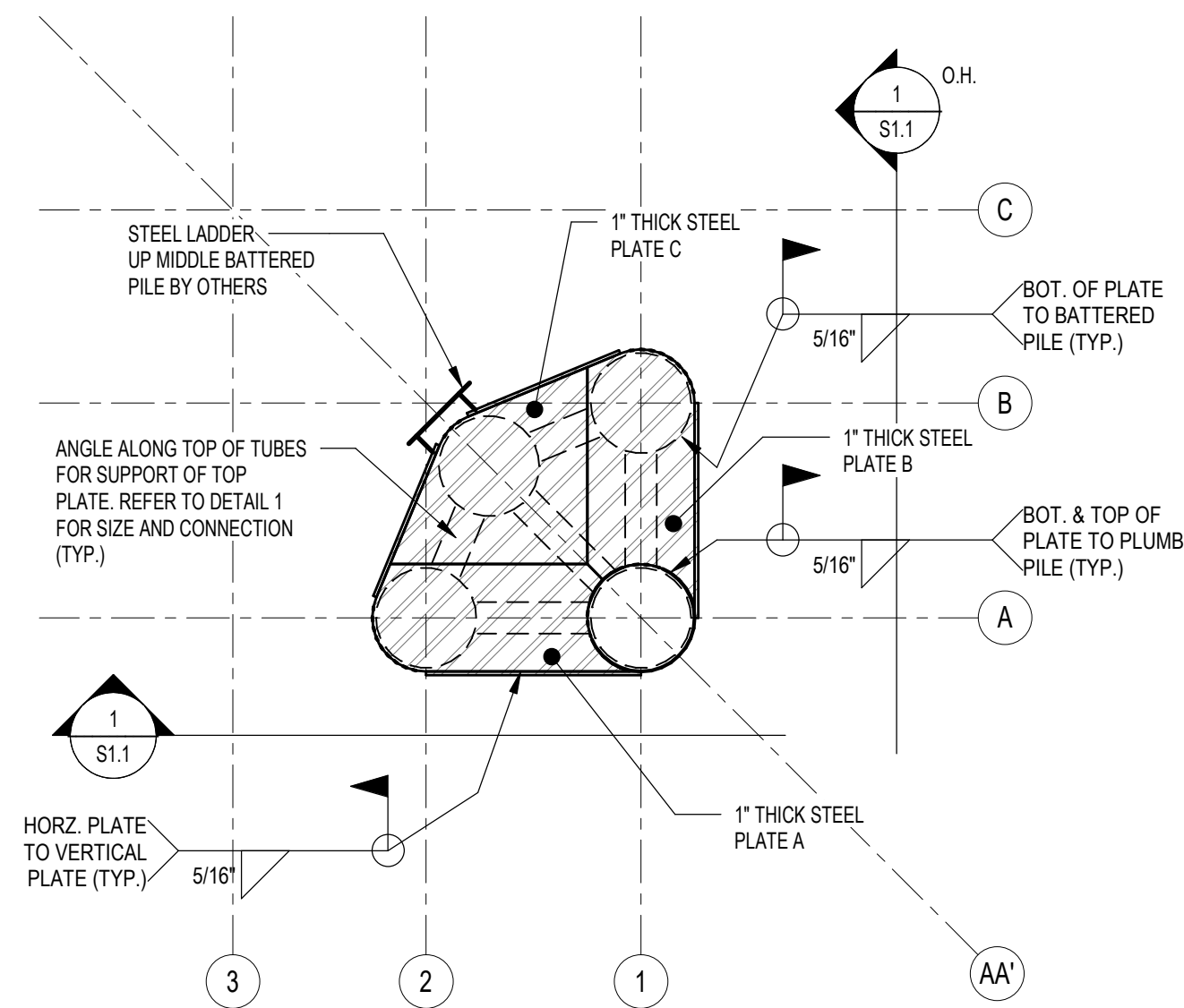
KENTUCKY BUILDING CODE, 2018 EDITION
INTERNATIONAL BUILDING CODE, 2015 EDITION
ASCE STANDARD MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES: SEI/ASCE 7-10
AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION
SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC 360-10
AWS D1.1 AND D1.3

GENERAL

- THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS AND DIGITAL MEDIA (PLANS) PREPARED BY BFW ENGINEERING & TESTING, INC. (ENGINEER) FOR THIS PROJECT ARE INSTRUMENTS OF THE ENGINEER'S SERVICE, AND MAY BE USED SOLELY WITH RESPECT TO THIS PROJECT AND, UNLESS OTHERWISE PROVIDED, THE ENGINEER SHALL BE DEEMED THE AUTHOR OF THESE PLANS AND RETAIN ALL COMMON LAW RIGHTS, TITLES AND INTEREST THEREIN. THE OWNER SHALL BE PERMITTED TO RETAIN COPIES, INCLUDING REPRODUCIBLE COPIES, OF THE ENGINEER'S DRAWINGS, SPECIFICATIONS, OTHER DOCUMENTS AND DIGITAL MEDIA FOR INFORMATION & REFERENCE IN CONNECTION WITH THE OWNERS USE AND OCCUPANCY OF THE PROJECT. THE ENGINEER'S DRAWINGS, SPECIFICATIONS, OTHER DOCUMENTS AND DIGITAL MEDIA SHALL NOT BE USED BY THE OWNER OR OTHERS ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THE PROJECT BY OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION, WAIVER OF CLAIMS AND INDEMNITY TO THE ENGINEER. BFW ENGINEERING & TESTING, INC. SHALL NOT BE LIABLE FOR ANY HARM OR DAMAGE SUFFERED BY ANY PARTY BY REASON OF THE UNAUTHORIZED USE OF THESE PLANS. BFW ENGINEERING & TESTING, INC. EXPRESSLY RESERVES ITS COPYRIGHTS IN THESE PLANS. THESE PLANS MAY NOT BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, INCLUDING SHOP DRAWINGS, NOR MAY THEY BE ASSIGNED OR OTHERWISE MADE AVAILABLE TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF BFW ENGINEERING & TESTING, INC.
- STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO THE SHOP DRAWINGS AND FIELD WORK.
- STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES AND SEQUENCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
- DO NOT SCALE DRAWINGS.
- WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DETAILS NOTED 'TYPICAL' APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.
- SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE SHORING FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION.
- PERIODIC SITE OBSERVATION BY THE STRUCTURAL ENGINEER IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
- (NOTE REMOVED)
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE STANDARDS SET FORTH BY OSHA.

STRUCTURAL AND MISCELLANEOUS STEEL

- ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE AISC 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS'.
- STEEL SHAPES SHALL CONFORM TO THE FOLLOWING UNLESS NOTED OTHERWISE:
A. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, GRADE 50.
B. MISCELLANEOUS STEEL MEMBERS, SUCH AS CHANNELS, ANGLES, FLAT BARS, AND PLATES SHALL CONFORM TO ASTM A36.
C. ABOVE GROUND RECTANGULAR AND SQUARE STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. FY = 46 KSI.
D. ABOVE GROUND ROUND STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. FY = 42 KSI.
E. PILING STEEL SHALL CONFORM TO ASTM A500, GRADE B.
- THE FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND FOR THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.
- ALL STEEL EXPOSED TO AIR AND WATER (ABOVE SOIL EMBEDMENT LEVEL) SHALL BE SHOP-PRIMED PER SPECIFICATIONS.
- ALL FIELD WELDS SHALL BE PAINTED WITH A ZINC-RICH COATING FOR PROTECTION AFTER WELDS ARE COMPLETED.



4 UPPER BRACE PLATE PLAN
SCALE: 1/4" = 1'-0"



Champaign, IL Office
907 Arrow Road, Ste 2, Champaign, IL 61821
217.530.4283 / BFWengineers.com



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ERIDA DOLPHINS PROJECT
EDDYVILLE RIVERPORT INDUSTRIAL DEVELOPMENT AUTHORITY
978 PORT AUTHORITY ROAD, EDDYVILLE, KENTUCKY 42038
EDDYVILLE RIVERPORT INDUSTRIAL DEVELOPMENT AUTHORITY

Revisions:		
#	Description	Date
3	Addendum 3	06/24/26

Drawn By: TEP
Checked By: PMH
Issue Date: 04/30/26
Project No.: 25223

Sheet Title
FRAMING PLANS,
ELEVATIONS, AND
DETAILS

Sheet No.
S1.1



ENGINEERING
& CONSULTING

Laboratory Testing Summary

Project Number:	25223
Project Name:	ERIDA Mooring Dolphins
Date:	11/17/2025

Atterberg Limits

Sample	Depth(ft)	LL	PL	PI	USCS
B-1	15.0	26	17	9	CL
B-2	37.0	40	21	19	CL
B-3	23.0	27	17	10	CL
B-3	58.0	39	18	21	CL
B-4	17.5	26	18	8	CL

Grain Size and Hydrometer Analysis

Sample	Depth(ft)	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
B-2	27.0	25	7.198	2.24	0.104	32.1	32.3	9.6	
B-2	47.0	25	4.789	0.543	-	50.2	27.1	22.7	
B-3	38.0	25	5.025	1.105	-	43.8	38.6	10.2	
B-4	27.5	25	11.074	6.493	2.114	79.4	19.7	1.0	
B-4	37.5	25	3.663	0.839	-	45.2	41.7	13.1	



BFW Engineering & Consulting
2301 McCracken Blvd
42001
Telephone: 270-443-1995

PAGE 1 OF 1

SUMMARY OF LABORATORY RESULTS

CLIENT Eddyville Riverport & Industrial Development Authority

PROJECT NAME ERIDA Mooring Dolphins

PROJECT NUMBER 25223

PROJECT LOCATION Eddyville, KY

Borehole	Depth	Liquid Limit	Plastic Limit	Plasticity Index	Maximum Size (mm)	%<#200 Sieve	Classification	Water Content (%)	Dry Density (pcf)	Saturation (%)	Void Ratio
B-1	5.0							25.8			
B-1	10.0							20.8			
B-1	15.0	26	17	9				25.9			
B-1	20.0							21.9			
B-1	25.0							15.3			
B-1	30.0							15.1			
B-1	40.0							1.4			
B-1	45.0							16.1			
B-2	2.0							27.6			
B-2	7.0							23.1			
B-2	12.0							17.0			
B-2	22.0							14.5			
B-2	27.0				25	10		14.0			
B-2	32.0							22.8			
B-2	37.0	40	21	19				27.8			
B-2	42.0							24.0			
B-2	47.0				25	23		17.9			
B-2	52.0							25.2			
B-2	57.0							33.9			
B-2	62.0							60.3			
B-2	67.0							47.4			
B-3	1.5							33.9			
B-3	8.0							26.0			
B-3	13.0							28.9			
B-3	18.0							28.9			
B-3	23.0	27	17	10				15.8			
B-3	28.0							10.9			
B-3	33.0							35.4			
B-3	38.0				25	10		18.5			
B-3	43.0							11.1			
B-3	48.0							18.5			
B-3	53.0							17.6			
B-3	58.0	39	18	21				19.8			
B-3	68.0							18.6			
B-4	2.5							29.1			
B-4	7.5							20.2			
B-4	12.5							28.4			
B-4	17.5	26	18	8				23.8			
B-4	27.5				25	1	GW	13.8			
B-4	32.5							23.1			
B-4	37.5				25	13		16.4			
B-4	42.5							12.7			



BFW Engineering & Consulting
2301 McCracken Blvd
42001
Telephone: 270-443-1995

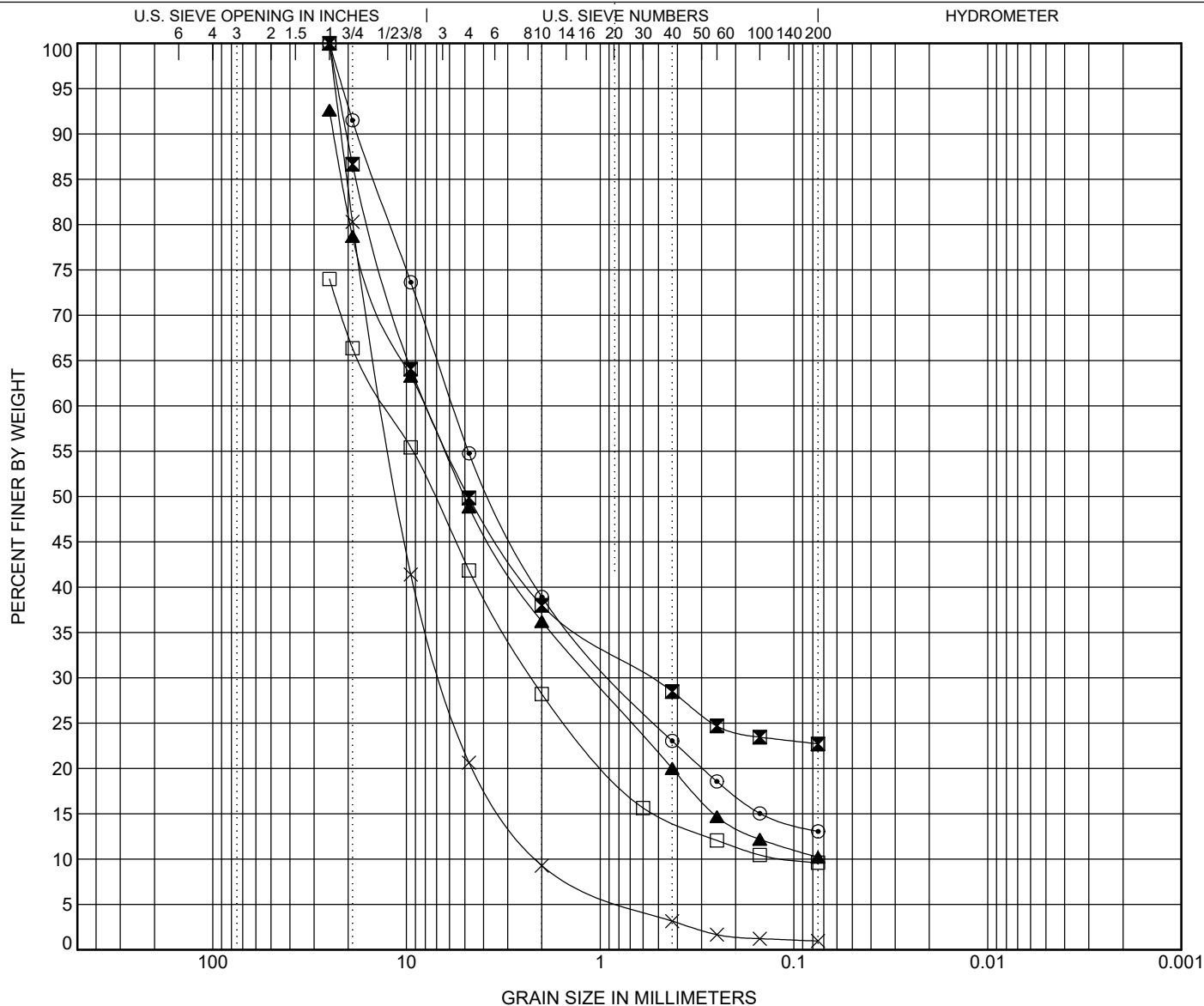
GRAIN SIZE DISTRIBUTION

CLIENT Eddyville Riverport & Industrial Development Authority

PROJECT NAME ERIDA Mooring Dolphins

PROJECT NUMBER 25223

PROJECT LOCATION Eddyville, KY



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

BOREHOLE		DEPTH	Classification					LL	PL	PI	Cc	Cu
□	B-2	27.0									3.80	121.84
▣	B-2	47.0										
▲	B-3	38.0									2.14	115.81
×	B-4	27.5	WELL-GRADED GRAVEL with SAND(GW)								1.51	6.26
⊙	B-4	37.5										
BOREHOLE	DEPTH	D100	D50	D30	D10	%Gravel	%Sand	%Silt	%Clay			
□	B-2	27.0	25	7.198	2.24	0.104	32.1	32.3	9.6			
▣	B-2	47.0	25	4.789	0.543		50.2	27.1	22.7			
▲	B-3	38.0	25	5.025	1.105		43.8	38.6	10.2			
×	B-4	27.5	25	11.074	6.493	2.114	79.4	19.7	1.0			
⊙	B-4	37.5	25	3.663	0.839		45.2	41.7	13.1			

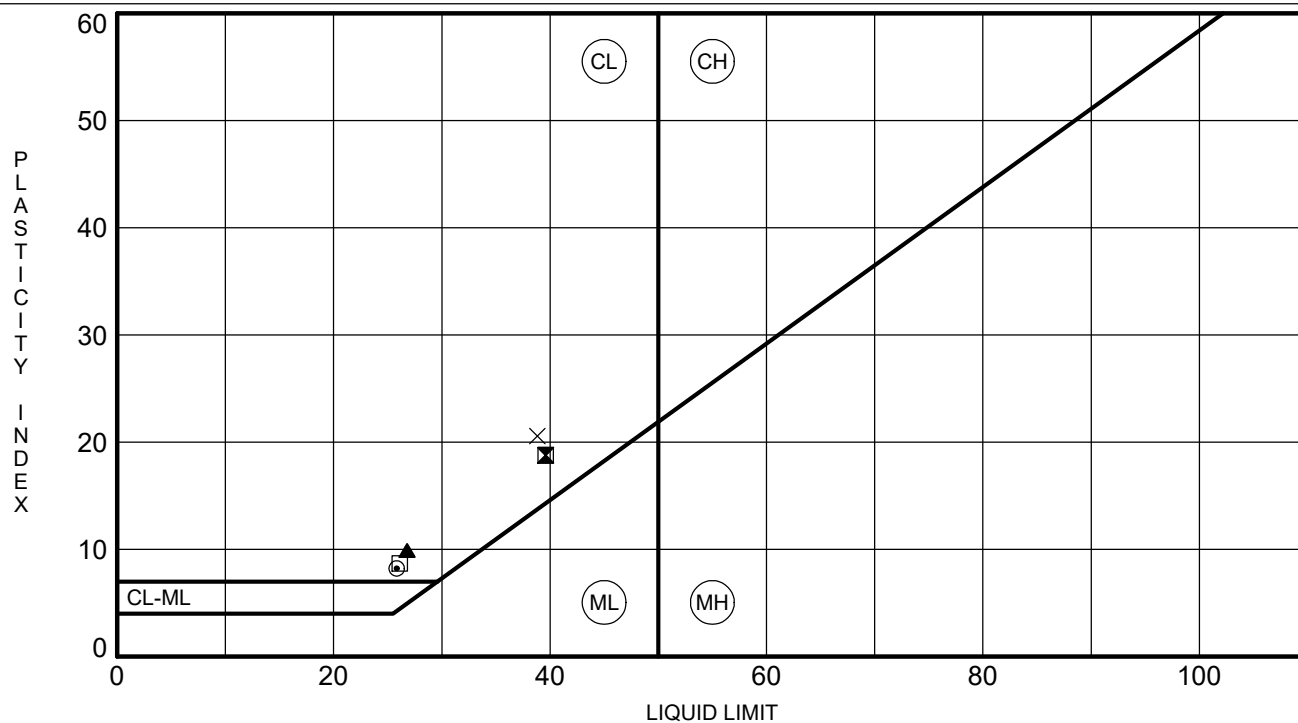
ATTERBERG LIMITS' RESULTS

CLIENT Eddyville Riverport & Industrial Development Authority

PROJECT NAME ERIDA Mooring Dolphins

PROJECT NUMBER 25223

PROJECT LOCATION Eddyville, KY

[illegible]

TERBERG IMITS - GINT STD US LAB 2021.GDT - 11/17/25 09:03 - C:\USERS\ABBOTT\BACON FARMER WORKMAN\BFW GEOTECHNICAL DEPARTMENT - DOCUMENTS\GINT FILES\PROJECTS\252223 - ERIDA MOORING DOI\PHINS.GPJ