





260 Arsenal Place #2  
Watertown, MA 02472-4026

617.924.1770

GENERAL NOTES:

1. DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, SHALL REMAIN THE PROPERTY OF VHB, INC. DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTIES THAN THOSE AUTHORIZED BY CONTRACT WITHOUT THE SPECIFIC WRITTEN AUTHORIZATION OF VHB, INC. THE USE OF THIS DOCUMENT IS CONTINGENT UPON PAYMENT TO VHB, INC. FOR SERVICES RENDERED. NON-PAYMENT SHALL GIVE VHB, INC. THE AUTHORITY TO BAR DOCUMENT USE BY ANY AND ALL PARTIES.
2. ALL WORK SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS AS SHOWN IN THESE PLANS AND SPECIFICATIONS. THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (BLUE BOOK) AND THE RHODE ISLAND STANDARD DETAILS SHOULD BE CONSULTED ADDITIONAL AND/OR SUPPLEMENTAL INFORMATION IS REQUIRED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRINGING ALL ELEMENTS OF THE PROJECT IN CONFORMANCE WITH THESE PLANS AND SPECIFICATIONS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT THE CONDITIONS SHOWN HEREIN ARE AS THEY APPEAR ON-SITE AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES IN DIMENSIONS AND/OR SITE CONDITIONS. THE CONTRACTOR SHALL NOT BEGIN ORDERING MATERIALS, FABRICATION OR INSTALLATION FOR ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. IF ANY MODIFICATIONS ARE REQUIRED IN ANY ELEMENT, THE CONTRACTOR SHALL SUBMIT PROPOSED CHANGES IN WRITING TO THE ENGINEER FOR REVIEW.
4. ALL WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS AND STATUTES AND THE REQUIREMENTS AND CONDITIONS OF ALL REGULATORY PERMITS ISSUED FOR THE WORK. CONTRACTOR SHALL BE FAMILAR WITH THE RI COASTAL RESOURCES MANAGEMENT PROGRAM (RICRMP) AND MAINTAIN COPIES OF FEDERAL, STATE AND LOCAL REGULATORY PERMITS ON-SITE THROUGHOUT CONSTRUCTION.
5. ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE OSHA CODE, THE RHODE ISLAND STATE BUILDING CODE, AND THE REFERENCED STANDARDS INCLUDED THEREIN THAT ARE APPLICABLE TO THIS PROJECT.
6. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT REGULATORY PERMITS AND ALL CONDITIONS OF THOSE PERMITS. THE CONTRACTOR IS ADVISED THAT THE REGULATORY PERMITS FOR THIS PROJECT MAY CONTAIN ADDITIONAL REQUIREMENTS THAT, AFTER ANY ADDENDUM, SUPERSEDE THE DRAWING NOTES. THE CONTRACTOR IS FURTHER ADVISED THAT IN THE CASE OF ANY DISCREPANCIES WITHIN THE CONTRACT DOCUMENTS FOUND BEFORE CONSTRUCTION, THE FINAL DECISION AS TO WHAT INFORMATION TAKES PRECEDENCE WILL BE MADE BY THE ENGINEER OF RECORD ON THE BASIS OF THAT INTENT.
7. ALL COMPONENTS SHALL BE INSTALLED PER EACH MANUFACTURER'S SPECIFICATIONS AND/OR STANDARD INDUSTRY PRACTICE AS APPLICABLE.
8. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE THE SURVEY BENCHMARKS ESTABLISHED ON SITE. ANY ADDITIONAL SURVEY WORK REQUIRED WILL BE AT THE EXPENSE OF THE CONTRACTOR.
9. ALL MATERIAL STORAGE SHALL BE DONE VIA BARGE OR ON SITE WITH PRIOR WRITTEN APPROVAL.
10. THE CONTRACTOR SHALL MAINTAIN AT ALL TIMES A SET OF RECORD DRAWINGS AND SPECIFICATIONS DURING THE PROGRESSION OF THE PROJECT. RECORD DRAWINGS SHALL BE UPDATED ON A DAILY BASIS AND SHALL BE SUBMITTED TO THE ENGINEER AT THE COMPLETION OF CONSTRUCTION.
11. DAMAGE TO ANY PROPERTY, PRIVATE OR OF PUBLIC TRUST, OCCURRING DURING THE CONSTRUCTION BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.

DEMOLITION NOTES:

1. UNLESS STATED OTHERWISE, ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED FROM THE JOB SITE AND DISPOSED OF IN A SAFE AND LEGAL MANNER.
2. THE CONTRACTOR SHALL MAKE AVAILABLE TO THE ENGINEER A DETAILED DISPOSAL PLAN THAT INCLUDES THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE DISPOSAL SITE; AND A SIGNED MANIFEST AND DISPOSAL TICKET(S) THAT SUBSTANTIATE APPROVED DISPOSAL OF MATERIAL REMOVED FROM SITE.

PIER CONSTRUCTION:

1. ALL TIMBER MATERIAL SHALL BE SOUTHERN PINE # 2 GRADE AND TREATED WITH CCA.
2. ALL TIMBER PILES, BEARING AND BATTER, SHALL HAVE A 12 INCH DIAMETER BUTT AND A 8 INCH DIAMETER TIP. ALL PILES ARE TO BE CCA TREATED TO 2.5 LB. AND HAVE A MINIMUM Fb=1900 PSI.
3. BRUSH APPLY TWO COATS OF WOOD PRESERVATIVE TO SURFACE OF PRESERVATIVE TREATED MATERIALS WHICH HAVE BEEN FIELD CUT, DRESSED OR DRILLED.
4. ALL BOLTS AND THREADED RODS TO BE A490 (HIGH STRENGTH) HOT-DIPPED GALVANIZED MATERIAL.
5. ALL STRUCTURAL STEEL MEMBERS SHALL HAVE A YIELD STRENGTH OF NO LESS THAN 50 KSI UNLESS OTHERWISE NOTED AND BE HOT DIPPED GALVANIZED.
6. ALL OTHER HARDWARE USED IS TO BE HOT-DIPPED GALVANIZED.
7. COUNTER SINK AREAS WHERE HARDWARE INTERFERES WITH CONSTRUCTION.
8. ALL CONSTRUCTION ACTIVITIES AND MATERIAL STORAGE SHALL BE DONE VIA BARGE.
9. PILE DRIVING HAMMER SHALL BE AIR, STEAM, OR DIESEL POWERED. THE HAMMER SHALL BE SUITABLY SIZED TO THE PILE BEING DRIVEN. DRIVING OF EACH PILE SHALL BE CONTINUOUS ONCE COMMENCED UNTIL THE PILE HAS ACHIEVED ITS MINIMUM SPECIFIED PENETRATION OR RESISTANCE. SPUDDING, OR JETTING OF PILES SHALL NOT BE ALLOWED. SPLICING OF PILES WILL NOT BE PERMITTED.
10. THE CONTRACTOR DRIVING PILES WILL BE RESPONSIBLE FOR RECORDING THE DEPTH OF PENETRATION INTO WHAT IS DEEMED TO BE COMPETENT MATERIAL FOR EACH PILE DRIVEN AND WILL BE RESPONSIBLE FOR REPORTING ANY PILE OR SET OF PILES NOT MEETING THE MINIMUM REQUIREMENTS STATED ON THE PLANS. CONTRACTOR WILL VERIFY ABILITY TO DRIVE PILES BEFORE STARTING WORK.
11. MAIN PIER DECKING TO BE REMOVED DURING RECONSTRUCTION TO FACILITATE INSTALLATION OF PROPOSED ADDITIONAL BATTER PILES.
12. COMPONENTS OF EXISTING PIER MAY BE REPLACED IN KIND DURING CONSTRUCTION.

FLOAT ANCHOR PILES:

1. REFER TO GEOTECHNICAL BORINGS PERFORMED BY HARDIMAN CO & ASSOCIATES FOR ADDITIONAL INFORMATION REGARDING AREA SOILS.
2. THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY SHOULD FIELD CONDITIONS DIFFER FROM THE PILE AND GEOTECHNICAL PROFILE PROVIDED.
3. ALL STEEL PILING SHALL BE OF A GRADE STEEL AT OR GREATER THAN WHAT IS NOTED ON THE PILE PLAN AND PILE DETAIL. THE CONTRACTOR SHALL SUBMIT CERTIFICATES SUBSTANTIATING CONFORMANCE WITH MATERIAL & COATING SPECIFICATIONS PRIOR TO INSTALLATION.
4. IF SPLICES ARE NECESSARY, THE CONTRACTOR SHALL SUBMIT SPLICE DETAILS AND CALCULATIONS SIGNED AND SEALED BY THE CONTRACTOR'S ENGINEER FOR APPROVAL. NO SPLICES ARE PERMITTED BELOW ELEVATION -5.0 MEAN LOWER LOW WATER DATUM.
5. FIELD WELDING OF SPLICES SHALL NOT BE PERMITTED.
6. EPOXY COATING FOR STEEL PILING AND CHANNEL SHALL BE BLACK COAL TAR EPOXY SPECIFICALLY INTENDED FOR THE PURPOSE OF MARINE APPLICATION AND SHALL BE A SELF-CURING TWO-COMPONENT EPOXY. THE STEEL SHALL BE PREPARED AND COATING APPLIED IN TWO COATS AS PER THE MANUFACTURER'S RECOMMENDATIONS. FINAL COATING THICKNESS SHALL BE 16 MILS DRY FILM THICKNESS (DFT) MINIMUM.
7. THE FINISHED COATING SHALL BE SMOOTH, GLOSSY, AND FREE OF SHARP PROTUBERANCES THAT WILL SCRABE OFF DURING DRIVING, AND SHALL BE FREE OF PINHOLES. MINOR SAGS, DIMPLING OR CURTING THAT DO NOT EXCEED 2% OF THE ENTIRE SURFACE OF A PILE WILL BE ALLOWED PROVIDED THEY DO NOT PRESENT SHARP EDGES. PROTUBERANCES AND SHARP EDGES SHALL BE CUT OFF CAREFULLY WITH A SHARP WOOD CHISEL LAID FLAT AGAINST THE SURFACE. THE ZONES FROM WHICH EXCESS HAS BEEN REMOVED SHALL BE WIRE BRUSHED LIGHTLY, WIPE WITH METHYL ISOBUTYL KEROSENE (MIBK), AND RECOATED TO A SMOOTH SURFACE.
8. COATED MATERIAL SHALL BE HANDLED CAREFULLY WITH SLINGS THAT WILL NOT MAR THE COATING. ALL AREAS MARRED IN

HANDLING, SHIPPING, ERECTING, WELDING, OR PILE DRIVING SHALL BE RECOATED BY THE CONTRACTOR AS SOON AS THEY ARE DISCOVERED. AREAS THAT ARE RECOATED/TOUCHED-UP, SHOULD BE DONE SO USING THE SAME PAINT WITH SURFACE PREPARATION AND REAPPLICATION PER THE PAINT MANUFACTURER'S SPECIFICATIONS.

FLOAT ANCHOR PILE DRIVING:

1. THE CONTRACTOR SHALL USE MAINTAINED EQUIPMENT ADEQUATE IN SIZE, CAPACITY AND NUMBERS NEEDED TO ACCOMPLISH THE WORK.
2. IT WILL BE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE SURVEY SUPPORT NEEDED TO ESTABLISH HORIZONTAL CONTROL AND ELEVATION BENCHMARKS TO ENSURE FLOAT PLACEMENT AND THE ELEVATION OF PILE CUTOFFS ARE CONSISTENT WITH PROJECT PLANS, NOTES AND SPECIFICATIONS.
3. PRIOR TO ANY PILE DRIVING, A 20-MINUTE "SOFT START" IS REQUIRED TO ALLOW ANY FEDERALLY-LISTED FISHES OR SEA TURTLES THAT MAY BE PRESENT TO LEAVE THE PROJECT VICINITY BEFORE SOUND PRESSURE INCREASES.
4. THE CONTRACTOR SHALL KEEP AN ACCURATE SET OF PILE INSTALLATION/DRIVING LOGS. ALL PILES BEING INSTALLED SHALL BE CLEARLY MARKED IN 1 FOOT INCREMENTS PRIOR TO INSTALLATION TO SUPPORT MONITORING/RECORDING EFFORTS. ALL LOGS SHALL BE CERTIFIED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO PAYMENT. PILE LOGS SHALL INCLUDE:
  - 4.1. STEEL PILES: PILE ID, LOCATION, DEPTH TO MUDLINE (INCLUDING DATE & TIME RECORDED), TOTAL EMBEDMENT AND LENGTH OF ROCK SOCKET.
  - 4.2. STEEL PILES SHALL BE DRIVEN OPEN-ENDED.
  - 4.3. THE CONTRACTOR SHALL ACCOMPLISH MINIMUM PILE EMBEDMENTS NOTED FOR ALL PILES AS PER PLANS, DETAILS AND SECTIONS HEREIN. WHERE ROCK IS ENCOUNTERED, PILES SHALL BE SOCKETED INTO COMPETENT ROCK/MUDSTONE.
  - 4.4. ALL PILE SPLICE LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
  - 4.5. CRATERS DUE TO PILE DRIVING AND DRILLING SHALL BE BACKFILLED WITH STONE DUST OR OTHER APPROVED MEDIUM UNTIL FLUSH WITH THE SURROUNDING MUDLINE. PROOF OF SUCCESSFUL MATERIAL PLACEMENT SHALL BE SUBMITTED TO THE ENGINEER.

CRANE NOTES:

1. PROPOSED JIB CRANE TO BE DESIGNED BY OTHERS.

**Herreshoff Marine  
Museum**

One Burnside Street  
Portsmouth, RI

No.	Revision	Date	Appvd.

Designed by	Checked by

Issued for	Date
Marina Expansion	11/24/2025

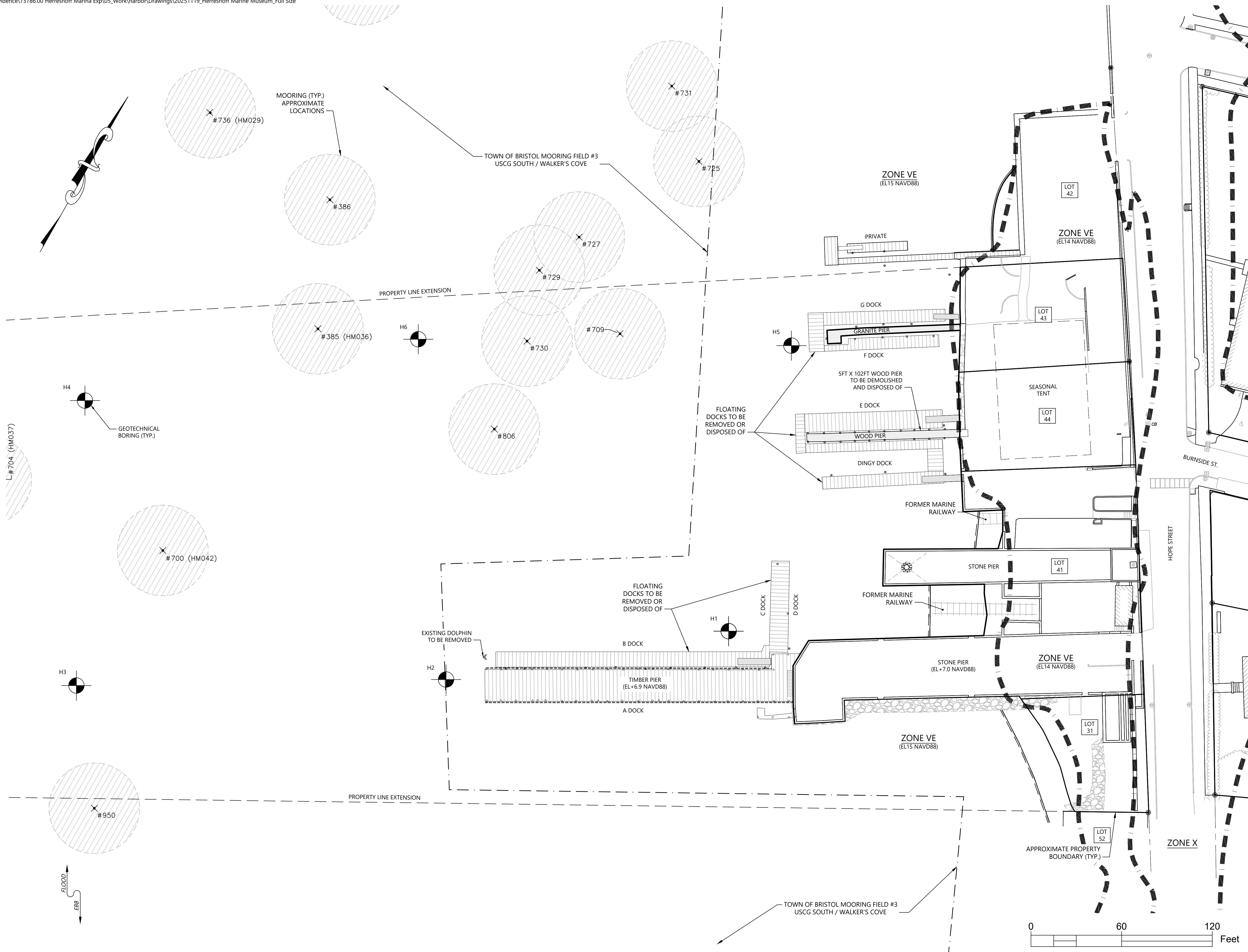
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Drawing Title
Project Notes

Drawing Number	
N-1	
AUGUST J. KREUZKAMP III	
No. 7949	
REGISTERED PROFESSIONAL ENGINEER CIVIL	
Sheet 2	of 7
11/24/2025	
Project Number 73786.000	



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SITE PLAN NOTES:

- LANDSIDE SITE INFORMATION WAS OBTAINED FROM THE TOPOGRAPHIC SURVEY PERFORMED BY SOUTH COUNTY SURVEY COMPANY TITLED "EXISTING CONDITIONS SITE PLAN HERRESHOFF MARINE MUSEUM" ISSUED MAY 31, 2024. REVISED JUNE 6, 2024. LINEWORK IS BASED ON THE CONDITIONS OF THE SITE AT THE TIME THE FIELDWORK WAS PERFORMED UP TO MAY 9, 2024. REFER TO ORIGINAL DOCUMENT FOR ADDITIONAL SURVEY INFORMATION.
- THE BOUNDARY ASSOCIATED WITH MOORING FIELD #3 WAS OBTAINED FROM THE TOWN OF BRISTOL RHOE ISLAND HARBOR MANAGEMENT PLAN AND HARBOR ORDINANCES 5-YEAR UPDATE 2018-2019. BOUNDARY COORDINATES WERE CONVERTED FROM GPS (LAT/LONG) TO STATE PLANE COORDINATES (SPC) USING NGS COORDINATE CONVERSION & TRANSFORMATION TOOL (NCAT) IN SURVEY FEET.
- APPROXIMATE MOORING LOCATIONS ARE BASED ON THE HERRESHOFF WATERFRONT MOORING MAP.
- GEOTECHNICAL BORING LOCATIONS (H1- H6) PRESENTED HEREIN WERE PERFORMED BY HARDIMAN CO. & ASSOCIATES ON JUNE 12, 2024.

## Herreshoff Marine Museum

One Burnside Street  
Bristol, RI

No. Revision Date Appvd.

Designed by AJK Checked by AJK

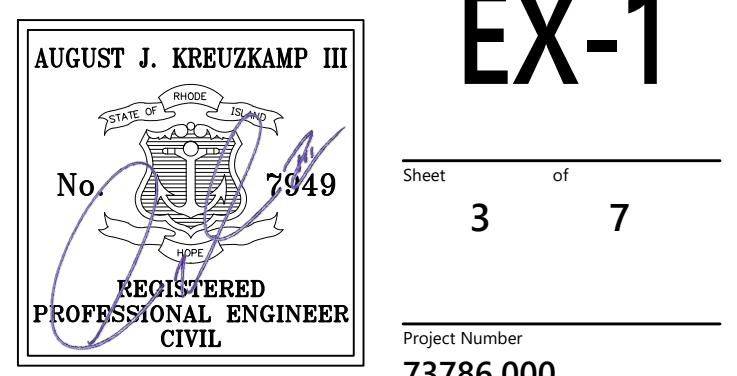
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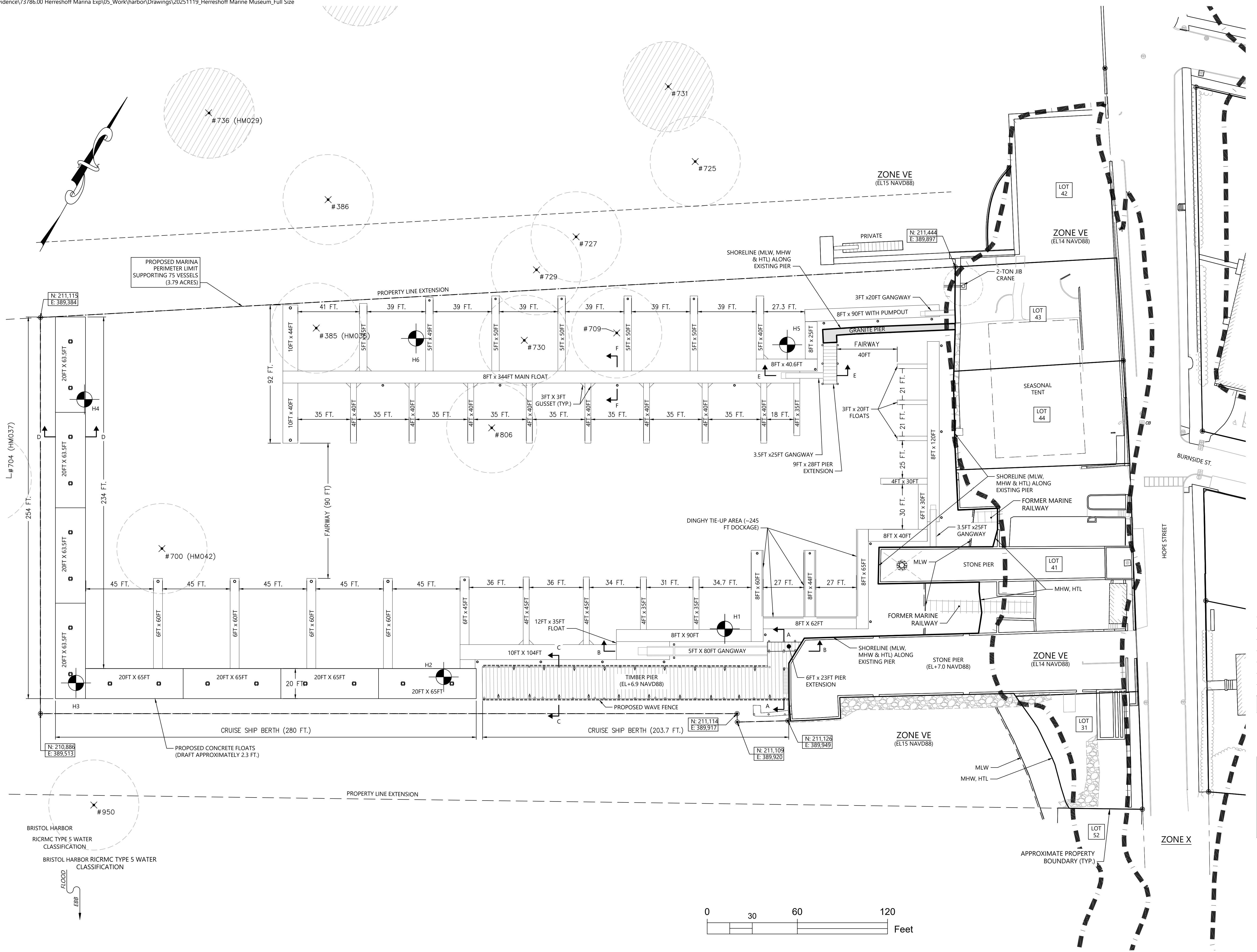
Marina Expansion 11/24/2025

Not Approved for Construction

Drawing Title  
**Existing Site Plan  
(Including FEMA Flood Zones  
Area Mooring Field Boundary  
and Moorings)**

EX-1





# Herreshoff Marine Museum

One Burnside Street  
Bristol, RI

No.	Revision	Date	Appvd.
Designed by		Checked by	
AJK		AJK	
Issued for		Date	

# Marina Expansion

11/24/2023

## Not Approved for Construction

Drawing Title

# Proposed Site Plan

## NAVD88 DATUM

## NAVD88 DATUM

Drawing Number

DEPARTMENT OF DEFENSE

# AUGUST J. KREUZKAMP III

N 2010 sheet

4

REGISTERED  
PROFESSIONAL ENGINEER

CIVIL  
11/24/2025

# PR-1

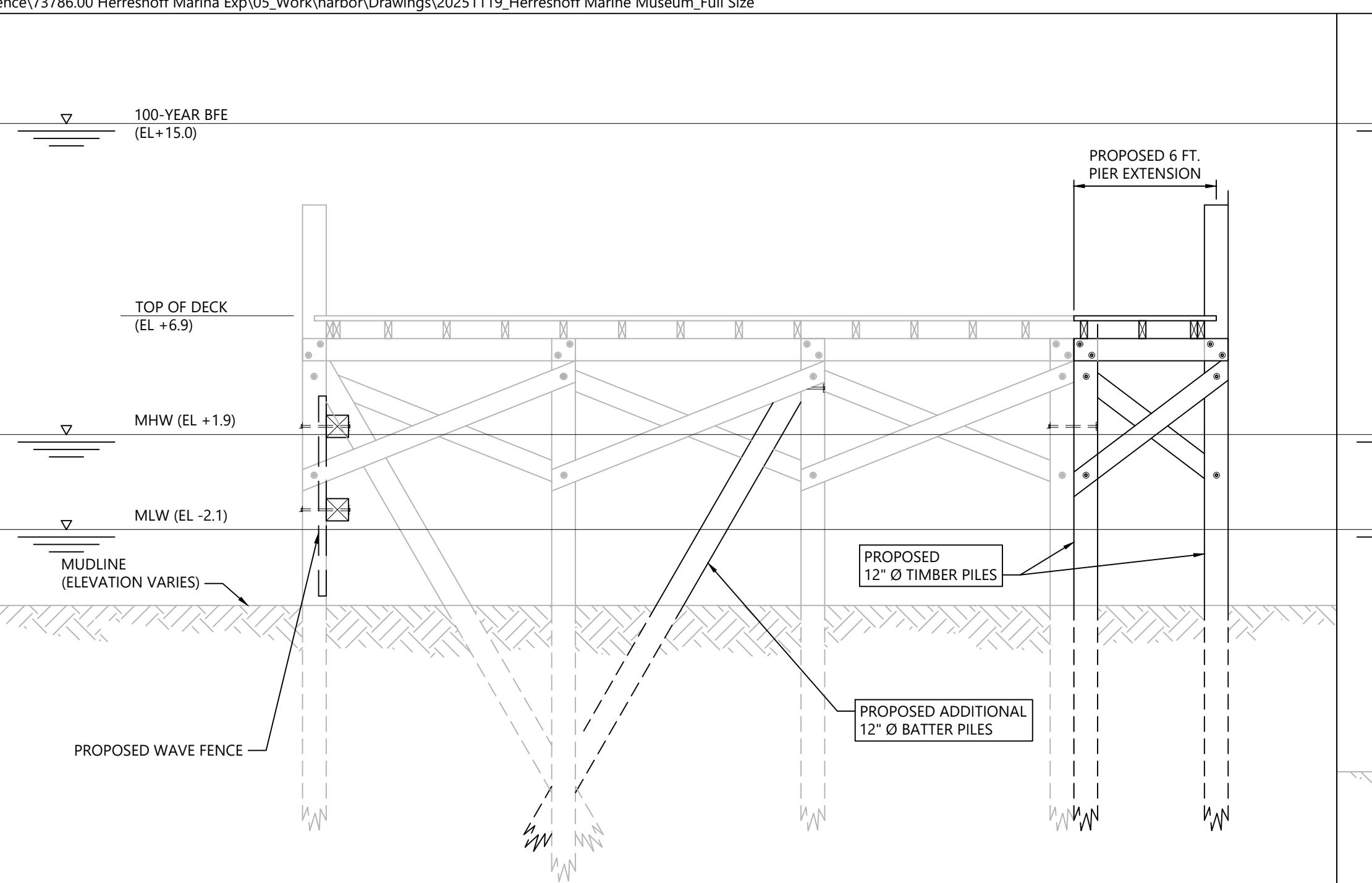


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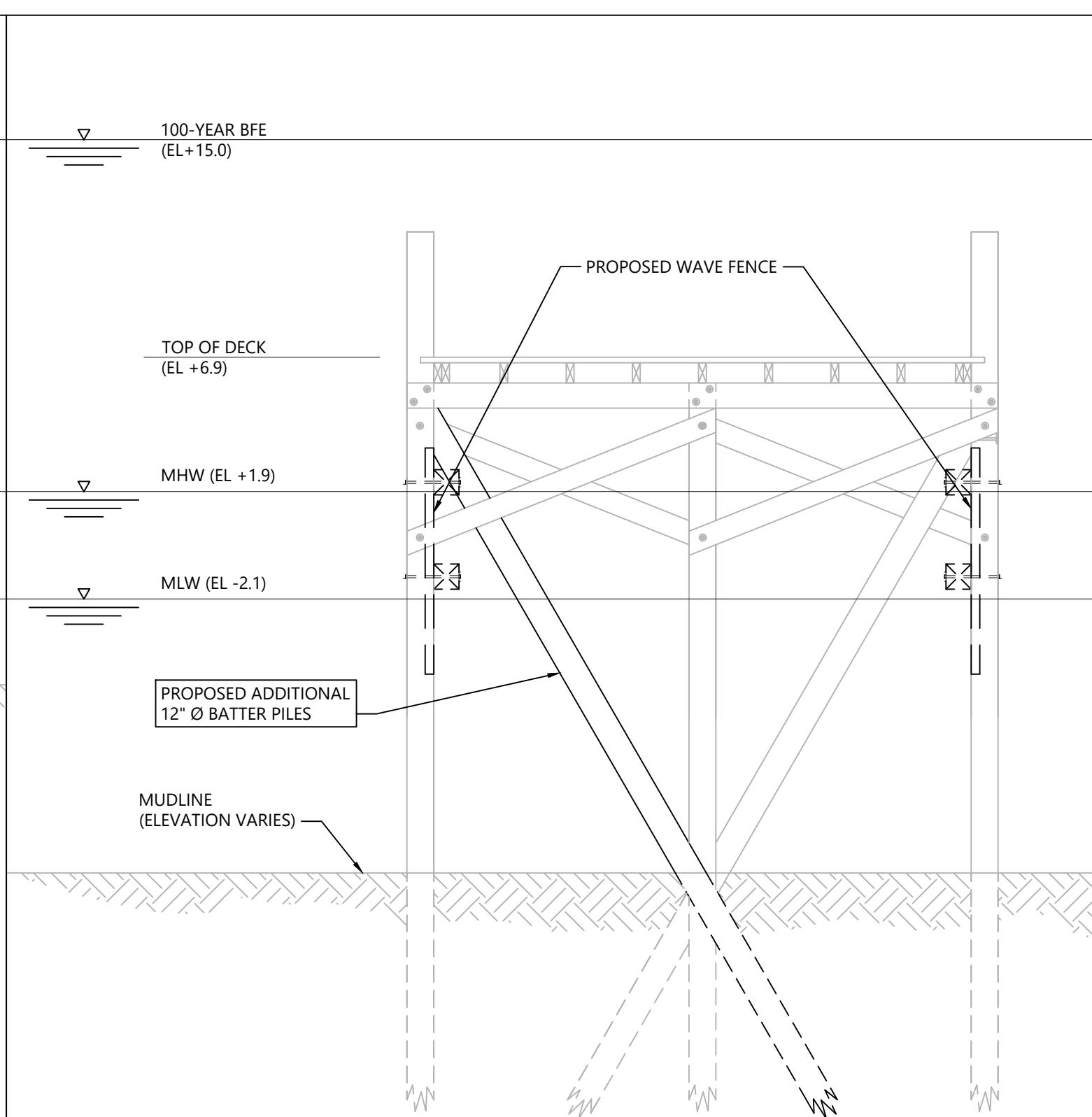
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## SECTION A-A

EXISTING PIER SECTION WITH  
PROPOSED PIER EXTENSION

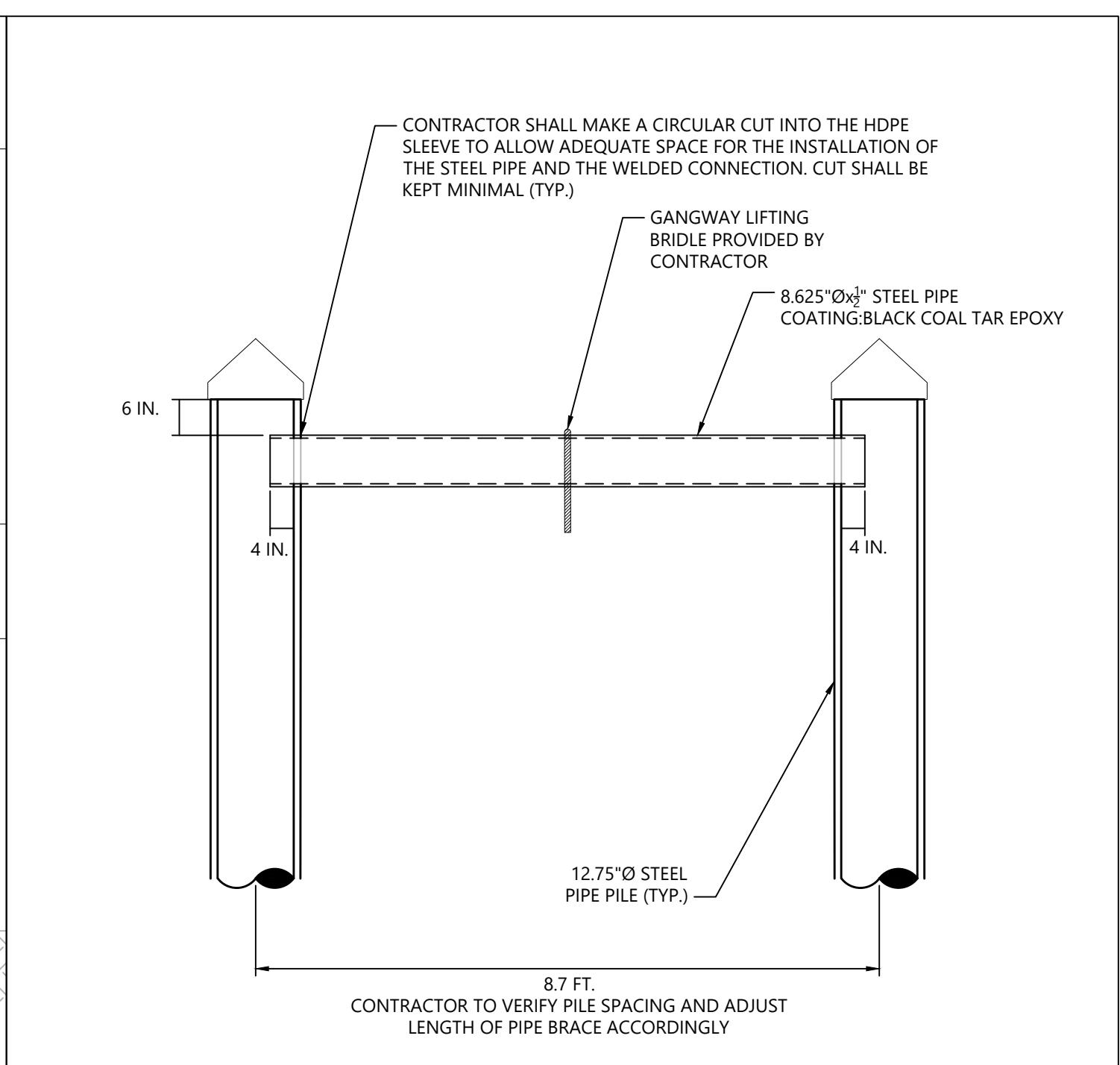
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## SECTION C-C

EXISTING TIMBER PIER (TYP.)  
WITH PROPOSED WAVE FENCE

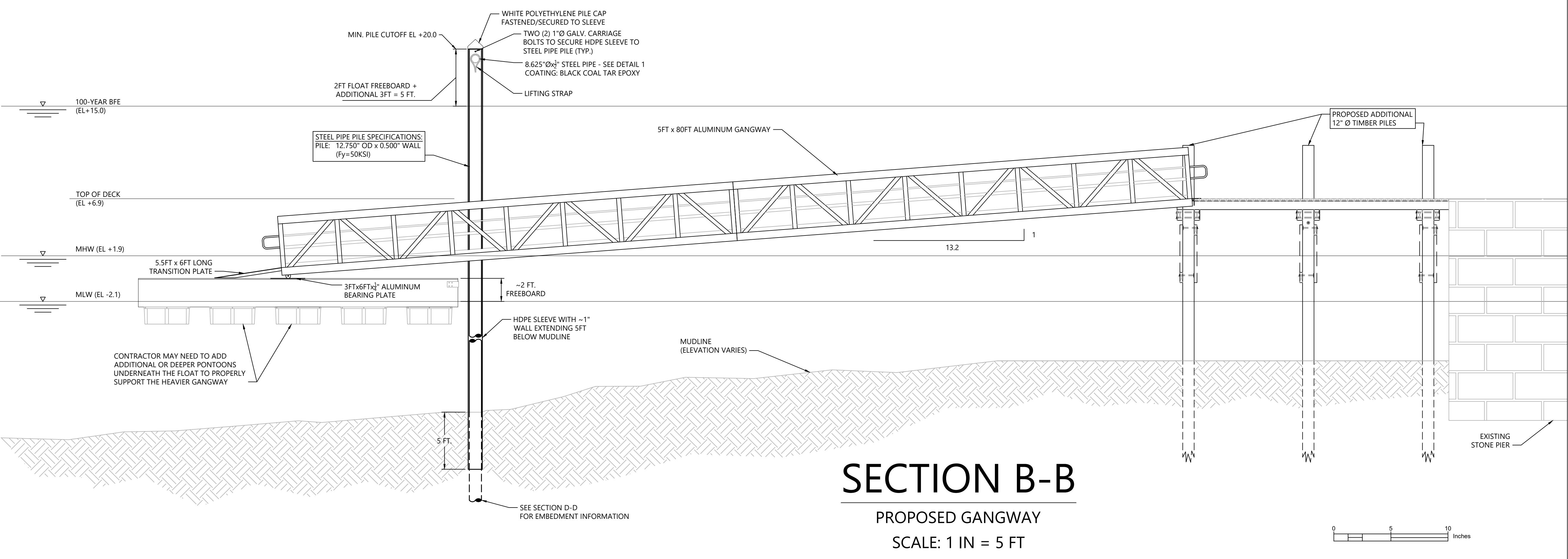
SCALE: 1 IN = 5 FT



## DETAIL 1

GANGWAY LIFTING BRACE  
CROSS SECTION

SCALE: 1 IN = 2 FT



## SECTION B-B

PROPOSED GANGWAY

SCALE: 1 IN = 5 FT

## Herreshoff Marine Museum

One Burnside Street  
Bristol, RI

No. Revision Date Appvd.

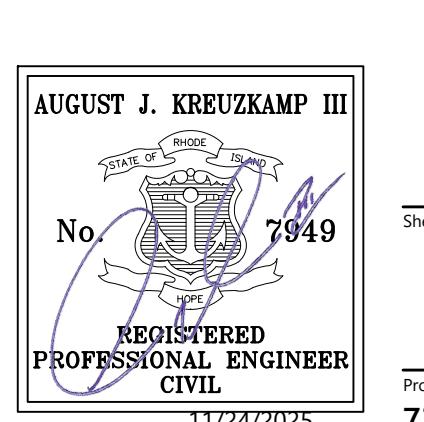
Designed by AJK Checked by AJK

Issued for Marina Expansion Date 11/24/2025

Not Approved for Construction

Drawing Title Pier Cross-Sections

NAVD88 Datum

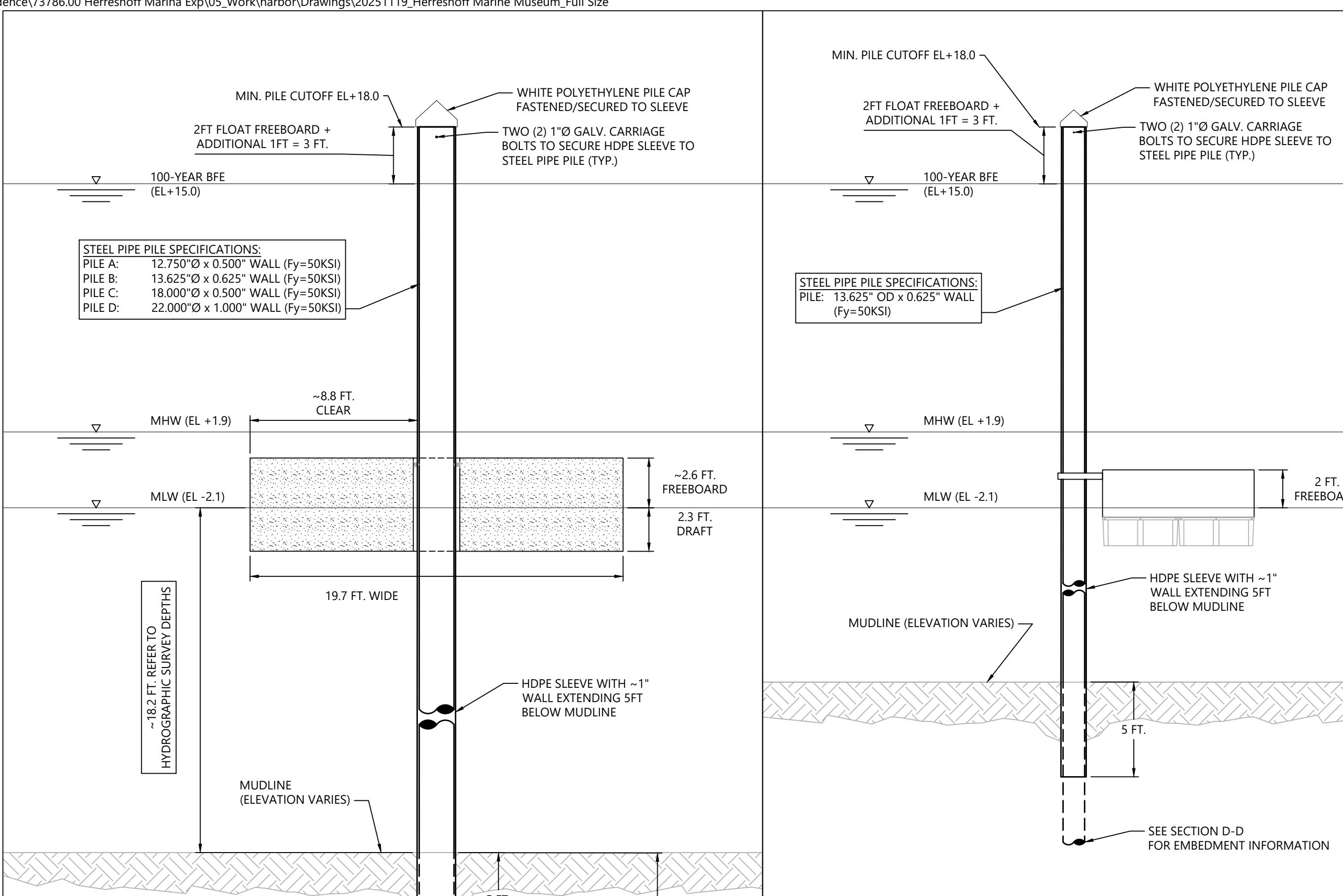


PX-1

6 of 7

Project Number 73786.00

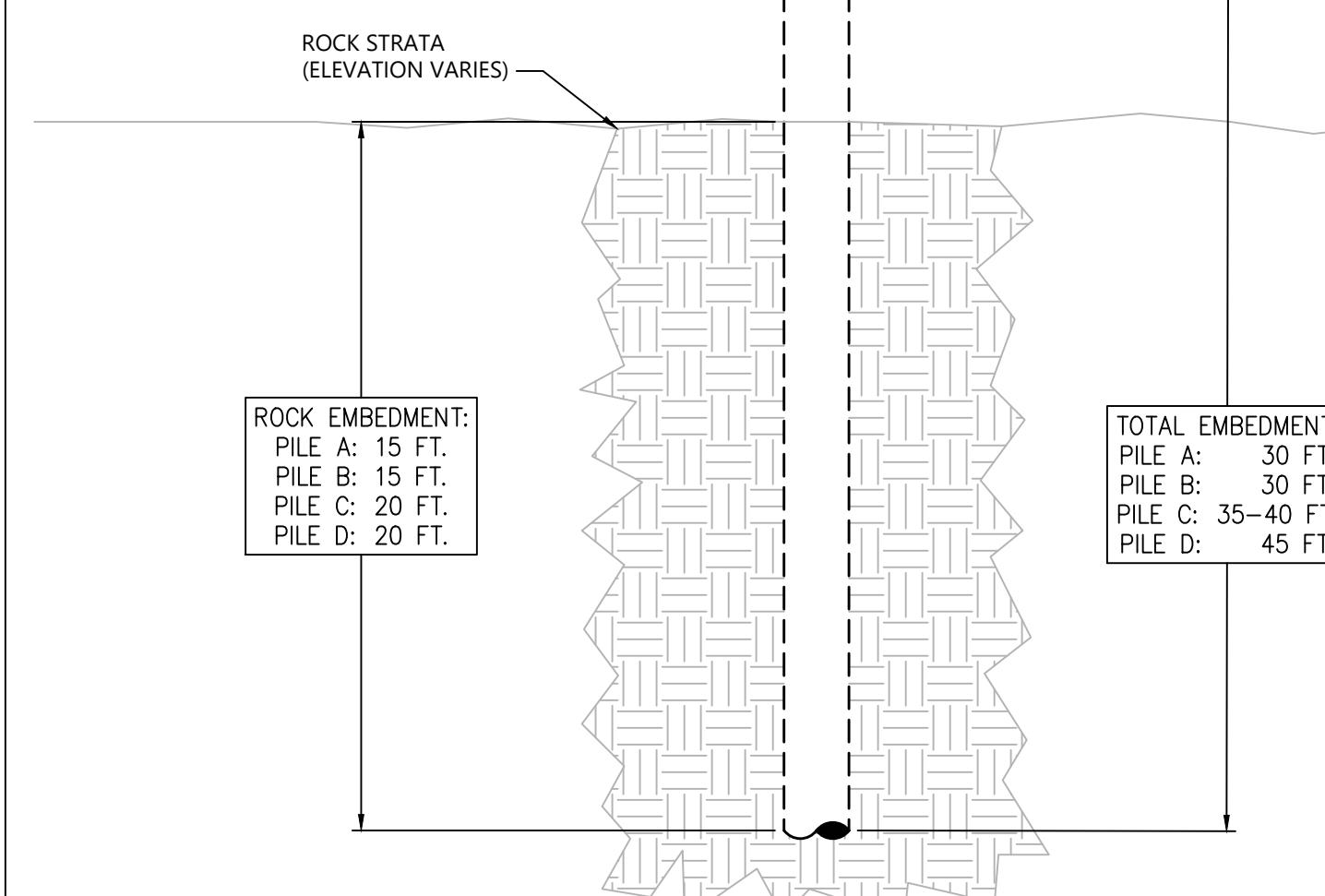
60 Arsenal Place #2  
Watertown, MA 02472-402  
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## SECTION F-1

## PROPOSED FINGER PIE

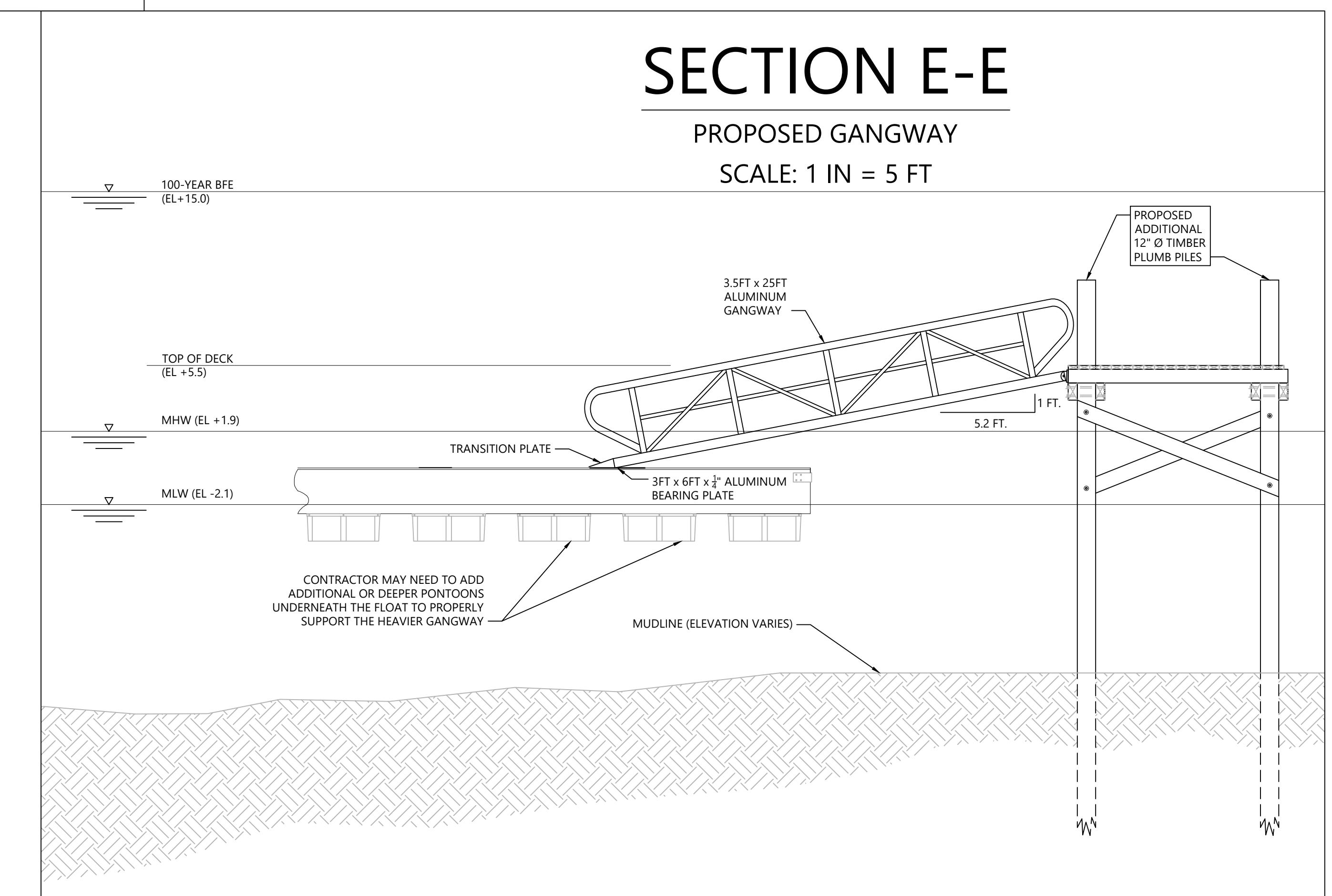
SCALE: 1 IN = 5 MI



# SECTION D-D

# PROPOSED FLOAT & STEEL PILE EMBEDMENT (TYP.)

SCALE: 1 IN = 5 FT



# SECTION E-E

## PROPOSED GANGWAY

SCALE: 1 IN = 5 FT

# Herreshoff Marine Museum

One Burnside Street  
Bristol, RI

No.	Revision	Date	Appvd.
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Designed by \_\_\_\_\_ Checked by \_\_\_\_\_

Issued for **Machine Learning** Date **11/24/2025**

## Not Approved for Construction

## Pier Cross-Sections

10.1007/s00332-010-9000-0

Drawing Number

## DY 2