

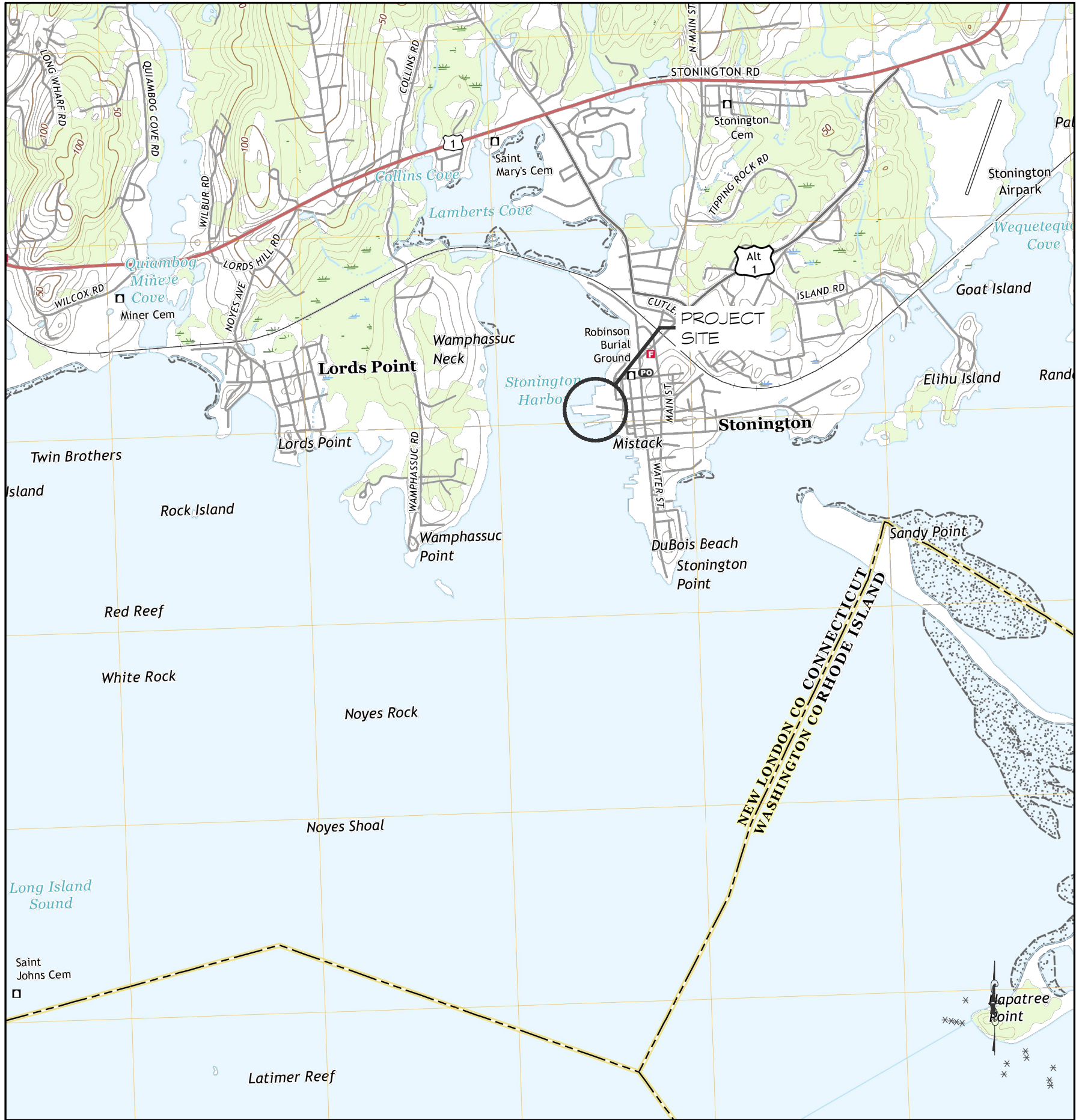
PIER REHABILITATION STONINGTON TOWN DOCK STONINGTON HARBOR

MAY 7, 2025

LIST OF DRAWINGS

DWG. No.	DRAWING TITLE
1	TITLE SHEET, DRAWING LIST & VICINITY MAP
2	PROJECT NOTES
3	EXISTING SITE PLAN
4	EXISTING DOCK PLAN, ELEVATION AND TYPICAL SECTION
5	SOIL TEST BORING LOGS
6	SITE UTILIZATION PLAN
7	DOCK PLAN AND ELEVATION
8	TYPICAL DETAILS
9	TYPICAL DETAILS
10	SEAWALL REPAIR PLAN
11	PILE AND FRAMING PLANS
12	STORM BOLLARD MOORING PLAN
13	BID ALTERNATE DOLPHIN PLAN

TIDAL ELEVATIONS		
	MLLW	NAVD88
HTL	4.39	2.6
CJL	3.79	2.0
MHHW	2.97	1.8
MHW	2.75	0.96
NAVD88	1.79	0.0
MLW	0.11	-1.68
MLLW	0.0	-1.79



VICINITY MAP



STONINGTON



AERIAL PHOTO

0 | 3/31/25 | ISSUE FOR BID

TITLE SHEET
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025

PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

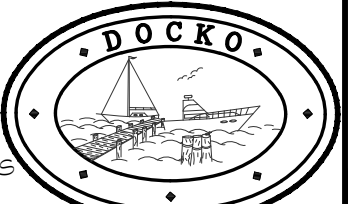
APPROVED


DATE

SHEET 1

PREPARED BY:
DOCKO

SOUND ENGINEERING ASSOCIATES
MYSTIC, CT 06355
860.572.8839
EMAIL: office@docko.com





PROJECT NOTES

DESCRIPTION OF THE WORK

1. THE WORK COVERED UNDER THESE CONTRACT DOCUMENTS, INCLUDING THE DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS AND ALL AMENDMENTS, CONSISTS OF PROVIDING ALL PLANT, LABOR, SUPERVISION, EQUIPMENT, APPLIANCES AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH AT LEAST, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING ITEMS:
- STONE SEAWALL REPAIR
 - EXCAVATING AND BACKFILLING
 - TIMBER AND STEEL PILES
 - STEEL FRAMING TIMBER STRINGERS, AND DECKING
 - FENDER SYSTEM
 - MOORING SYSTEM
 - ANCHOR SYSTEM
 - CONCRETE WORK
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS AND ACCESSORIES REQUIRED TO COMPLETE ALL ASPECTS OF THE WORK NEEDED FOR A COMPLETE AND PROPER INSTALLATION, ALL IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS.

GENERAL NOTES

1. ALL BATHYMETRY IS IN MEAN LOWER LOW WATER DATUM (MLLW). ALL LAND CONTOURS, SPOT AND OTHER SPECIFIED ELEVATIONS ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88).
2. EXISTING CONDITIONS TAKEN FROM A DRAWING TITLED "TOPOGRAPHIC SURVEY" PREPARED FOR THE TOWN OF STONINGTON BY RESOURCE MANAGEMENT AND MAPPING, DATED MARCH 25, 2009 AND SUPPLEMENTED BY MEASUREMENTS TAKEN BY DOCKO.
3. HYDROGRAPHIC INFORMATION TAKEN FROM A DRAWING TITLED "HYDROGRAPHIC SURVEY, STONINGTON FISHING DOCKS" BY VESPOS HYDROGRAPHIC SURVEYS & SOFTWARE DATED APRIL 29, 2024 AND REPRESENT THE CONDITIONS AT THE TIME OF THE SURVEY.
4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LAYOUT THE STRUCTURES IN ACCORDANCE WITH THE PROJECT DRAWINGS.
5. ALL WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS AND STATUTES AND THE REQUIREMENTS AND CONDITIONS OF ALL REGULATORY PERMITS ISSUED FOR THIS WORK.
6. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT REGULATORY APPROVALS AND ALL CONDITIONS OF THOSE APPROVALS. THE CONTRACTOR IS ADVISED THAT THE REGULATORY APPROVALS FOR THIS PROJECT MAY CONTAIN ADDITIONAL REQUIREMENTS THAT, AFTER ANY ADDENDUM, SUPERSEDES 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 SHALL BE MADE BY THE ENGINEER OF RECORD ON THE BASIS OF THAT INTENT.
7. EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND FABRICATION OR ORDERING OF ANY CONSTRUCTION MATERIALS.
8. SECTIONS AND DETAILS APPLY TO SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.
9. 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.

STEEL FASTENERS

1. BOLTS: ASTM A307 WITH HEXAGONAL HEADS UNLESS OTHERWISE NOTED.
2. NUTS: ASTM A563 WITH HEXAGONAL HEADS
3. WASHERS: ASTM F436 OR Ogee TYPE WASHERS AS NOTED
4. ALL BOLTS, NUTS, AND WASHERS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 AND MEET MINIMUM TESTS OF ASTM A239, UNLESS OTHERWISE NOTED.

STEEL PILES

1. HP-PILES SHALL BE ASTM ASTM A572. PIPE PILES SHALL BE ASTM A252 SPIRAL WELDED PIPE.
2. THE TOP 30 FEET OF PILES SHALL BE SHOP COATED, ON OUTER SURFACES ONLY, UNLESS NOTED OTHERWISE.
3. PIPE PILES SHALL BE FILLED WITH CONCRETE UNLESS NOTED OTHERWISE. CONCRETE FILL FOR PILES SHALL BE NORMAL WEIGHT WITH A MINIMUM 28-DAY STRENGTH OF 3,000 PSI.

TIMBER PILES

1. TIMBER PILES SHALL BE SOUTHERN PINE AND SHALL CONFORM TO ASTM D25 AND BE UNKIDED, CLEAN PEELED, STRAIGHT, AND UNFORMALLY TAPERED. ANY PILES NOT CONFORMING TO THESE SPECIFICATIONS SHALL BE REMOVED FROM THE SITE.
2. THE MINIMUM BUTT DIAMETER SHALL BE 12" DIAMETER.
3. ALL PILES SHALL BE HANDLED CAREFULLY, WITHOUT SUDDEN DROPPING, BREAKING OF OUTER FIBERS, BRUISING OR PENETRATING THE SURFACE WITH TOOLS.
4. TO PREVENT SPLITTING OR BROOMING, THE BUTT ENDS OF THE PILES SHALL BE CUT SQUARE WITH THE AXIS, EDGES CHAMFERED, AND, IF NECESSARY, STEEL BANDS OR GAPS SHALL BE USED WHILE DRIVING.
5. ALL PILES SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) CATEGORY C3 WITH A CCA PRESERVATIVE TO A RETENTION OF 15 POUNDS PER CUBIC FOOT.
6. DATA ON TIMBER PILE TREATMENT, INCLUDING CERTIFICATION BY TREATING PLANT STATING TYPE OF PRESERVATIVE SOLUTION AND PRESSURE PROCESS USED, NET AMOUNT OF PRESERVATIVE RETAINED, AND COMPLIANCE WITH APPLICABLE STANDARDS, SHALL BE FURNISHED TO THE ENGINEER PRIOR TO PILE INSTALLATION.
7. HANDLING, STORAGE, AND FIELD FABRICATION, INCLUDING TREATMENT OF CUT ENDS, SHALL BE IN ACCORDANCE WITH AWPA M4.
8. ALL CUT ENDS SHALL BE COATED WITH A COPPER NAPHTHANATE SOLUTION, WITH NO LESS THAN 2% COPPER METAL CONTENT, TO BE APPROVED BY THE ENGINEER PRIOR TO USE.

PILE INSTALLATION

4. EQUIPMENT AND METHODS FOR INSTALLING PILES SHALL BE SUCH THAT PILES ARE INSTALLED IN THEIR PROPER POSITION AND ALIGNMENT.
5. PILES SHALL BE CONTINUOUSLY DRIVEN TO A DEPTH OR CAPACITY AS FOLLOWS:
- A. TIMBER FENDER PILES SHALL BE NO LESS THAN 40 FEET LONG AND DRIVEN TO THEIR FULL DEPTH.
 - B. STEEL PIPE PILES FOR DOCK SHALL BE NO LESS THAN 40 FEET LONG AND DRIVEN TO THEIR FULL DEPTH.
 - C. HP PILES FOR DOCK FOUNDATION SHALL BE DRIVEN TO A "SAFE LOAD" CAPACITY OF NO LESS THAN 20 TONS AS DETERMINED BY THE ENGINEERING NEWS FORMULA OR A MINIMUM EMBEDMENT OF 20 FEET, WHICHEVER IS DEEPER.
 - D. HP PILES FOR DEAD MAN ANCHOR SHALL BE UNCOATED, 30 FEET LONG, AND DRIVEN TO THEIR FULL DEPTH.
 - E. STEEL PIPE PILES FOR STORM BOLLARDS SHALL BE 35 FEET LONG AND DRIVEN TO THEIR FULL DEPTH. THE TOP 6 FEET OF THE PILES SHALL BE COATED.
6. THE PILE DRIVING HAMMER SHALL BE OF SUITABLE SIZE FOR THE PROPER INSTALLATION OF THE PILE AND SHALL BE CAPABLE IN ANY CASE OF DELIVERING AN ENERGY PER BLOW AS REQUIRED BY APPROPRIATE DRIVING RESISTANCE REQUIREMENTS.
7. SUITABLE ANVILS OR CUSHIONS, DEPENDING ON THE TYPE OF PILE SHALL BE USED TO PREVENT DAMAGE TO THE PILE BUTTS. THE CUSHION USED SHOULD PROVIDE ENOUGH PROTECTION TO PREVENT DAMAGE TO THE PILE BUT SHOULD NOT ABSORB TOO MUCH OF THE ENERGY OF THE BLOW.
8. PILES SHALL BE INSTALLED WITH DUE CONSIDERATION FOR THE SAFETY OF ADJACENT STRUCTURES AND SUB-SURFACE CONSTRUCTION AND, BY A METHOD WHICH LEAVES THE PILE STRENGTH UNIMPAIRED, AND WHICH DEVELOPS AND RETAINS THE REQUIRED LOAD BEARING RESISTANCE FOR THE PILE. IF CONDITIONS AT THE SITE ARE SUCH THAT THE TIP, THE BODY, OR THE BUTT OF THE PILE IS LIKELY TO SUFFER DAMAGE DURING DRIVING SPECIAL PRECAUTIONS SUCH AS PRE-DRILLING OR SPUDDING MUST BE TAKEN BY THE CONTRACTOR TO AVOID

SUCH DAMAGE. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE PLACEMENT OF UNDAMAGED PILES TO THE LOADING CAPACITY, REQUIRED TIP ELEVATION AND/OR EMBEDMENT INTO SOUND MATERIAL AS SPECIFIED HEREIN.

9. ALL PILES SHOWING SIGNS OF HEAVING AND LIFTING CAUSED DUE TO INSTALLATION OF ADJACENT PILES, OR ANY OTHER CAUSE, OR WHICH HAVE BEEN INSTALLED IN THE WRONG LOCATIONS, SHALL BE REMOVED AND REINSTALLED TO FIRM BEARING AS SPECIFIED HEREIN.
10. PILES WHICH ARE DAMAGED SHALL BE REMOVED AND DISPOSED OFF-SITE AND REPLACED WITH NEW PILES.
11. THE CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF EACH PILE DRIVEN. THE RECORDS SHALL GIVE THE BUTT AND TIP DIAMETERS, LENGTH, DESIGN CAPACITY, PENETRATION UNDER THE LAST BLOW OF THE HAMMER, BEHAVIOR DURING DRIVING, CUT-OFF LENGTHS, RESULTS OF ANY TESTS, DRILLING OR PROBING INFORMATION IF ANY, AND ALL OTHER INFORMATION REGARDING EACH PILE DRIVEN. THESE RECORDS SHALL BE SUBMITTED TO THE ENGINEER ON A DAILY BASIS.

HEAVY TIMBER CONSTRUCTION

1. THE WORK COVERED UNDER THIS SECTION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, STRINGERS, CHOCKS, AND BLOCKING.
2. ALL VISUALLY GRADED STRUCTURAL LUMBER AND WOOD CONSTRUCTION SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/NFPA NDS - LATEST EDITION, ITS SUPPLEMENT, AND COMMENTARY BY THE AMERICAN WOOD COUNCIL).
3. TIMBER SHALL MEET THE REQUIREMENTS OF THE SOUTHERN PINE INSPECTION BUREAU INSPECTION RULES, LATEST EDITION FOR SOUTHERN YELLOW PINE NO. 2 GRADE MINIMUM.
4. TIMBER SHALL BE HANDLED CAREFULLY, WITHOUT SUDDEN DROPPING, BREAKING OF OUTER FIBERS, BRUISING OR PENETRATING THE SURFACE WITH TOOLS.
6. ALL TIMBER SHALL BE CUT AND PRAYED TO A CLOSE FIT IN SUCH A MANNER THAT THE JOINTS SHALL HAVE AN EVEN BEARING OVER THE ENTIRE CONTACT SURFACE. NO SHIMMING WILL BE PERMITTED IN MAKING JOINTS NOR WILL OPEN JOINTS BE ACCEPTED.
7. ALL TIMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) CATEGORY G3 WITH A CCA PRESERVATIVE TO A RETENTION OF 0.6 PCF UNLESS NOTED OTHERWISE.
8. TIMBERS THAT ARE INSTALLED BELOW THE MEAN HIGH WATER LINE SHALL BE CCA PRESERVATIVE TREATED TO A RETENTION OF 2.5 PCF.
9. ALL CUT ENDS SHALL BE COATED WITH A COPPER NAPHTHANATE SOLUTION, WITH NO LESS THAN 2% COPPER METAL CONTENT, TO BE APPROVED BY THE ENGINEER PRIOR TO USE.
10. ALL MATERIAL SHALL BE SOUND, WELL-SEASONED, AND STRAIGHT GRAINED, FREE FROM SHAKES AND LARGE OR LOOSE KNOTS AND SHALL HAVE NO DECAYED WOOD, WORN HOLES OR ANY OTHER DEFECTS WHICH THE ENGINEER DETERMINES WILL IMPAIR ITS STRENGTH OR DURABILITY.
11. PIECES OF EXCEPTIONALLY LIGHT WEIGHT WILL NOT BE ACCEPTED.
12. ALL MATERIAL SHALL BE STORED OFF OF THE GROUND IN A MANNER TO PREVENT DAMAGE AND TO PERMIT EASY INSPECTION.
13. TIMBER SHALL BE SURFACED FOUR SIDES (S4S) UNLESS OTHERWISE NOTED.

DECKING

1. BASE BID DECKING SHALL BE SOUTHERN YELLOW PINE AND SHALL MEET SPECIFICATIONS SET FORTH IN THESE DRAWINGS UNDER TIMBER CONSTRUCTION.
2. DECKING SHALL BE FASTENED TO EACH STRINGER 2' FROM EACH EDGE USING 8.5' LONG BY 0.285" DIAMETER DECK SPIKES.
3. DECKING SHALL BE STORED IN A CLEAN, DRY, WEATHER PROTECTED LOCATION PRIOR TO INSTALLATION. NO DENTED, STAINED, TWISTED, OR DAMAGED MATERIAL SHALL BE INCORPORATED INTO THE WORK.
4. DECKING TO HAVE 1/8-INCH GAP BETWEEN ADJACENT BOARDS.

STONE REPAIR WORK

1. STONE SHALL CONSIST OF ROUGHLY SQUARED AND DRESSED. STONE SHALL BE OF APPROVED QUALITY, SOUND AND DURABLE, AND FREE FROM SEGREGATIONS, BEAMS, CRACKS, AND OTHER STRUCTURAL DEFECTS OR IMPERFECTIONS TENDING TO DESTROY ITS RESISTANCE TO WEATHER. IT SHALL BE FREE FROM ROUNDED, WORN, OR WEATHERED SURFACES.
2. STONES SHALL HAVE A THICKNESS OF NOT LESS THAN 8 INCHES AND A WIDTH OF NOT LESS THAN 1/4 TIMES THE THICKNESS.
3. CARE SHALL BE TAKEN THAT EACH STONE TAKES A FIRM BEARING AT NOT LESS THAN THREE SEPARATE POINTS ON THE UNDERLYING STONE.

MARINE FENDERS

1. TIRE FENDERS SHOULD BE NO LESS THAN 48" IN DIAMETER AND IN GOOD CONDITION.
2. DO FENDERS SHALL BE TRC-DO350 FROM THE RUBBER COMPANY OR EQUIVALENT AND APPROVED BY THE ENGINEER.

DESIGN CRITERIA		
Standard Reference	1. Unified Facilities Criteria, by the Department of Defense __UFC 4-159-03, Change 1, 9/1/2012, Design: Moorings __UFC 4-152-01, Change 1, 9/1/2012, Design: Piers & Wharves 3. 2022 Connecticut State Building Code 4. 2022 International Building Code 5. ASCE / SEI 7-16 Minimum Design Loads and Associated Criteria for Buildings and Other Structures	
Municipality	Stonington, CT	
Structure Description	Commercial Fishing Vessel Docking Facility	
Structure Risk Category	I	
Exposure	D	
Live Loads	Deck Live Load (Heavy Storage)	250 psf

CONTRACTOR MEANS & METHODS AND SEQUENCE NOTES

1. CONTRACTOR IS RESPONSIBLE FOR MEANS & METHODS OF CONSTRUCTION, PROVIDED THAT SUCH MEANS AND METHODS ARE REVIEWED AND ACCEPTABLE BY THE TOWN. THE CONTRACTOR SHALL SUBMIT A DETAILED METHODOLOGY TO THE TOWN WITHIN 15 DAYS FOLLOWING THE AWARD OF CONTRACT.
2. THE DOCK IS OPERATED BY THE SOUTHERN NEW ENGLAND LOBSTERMAN & FISHERMAN ASSOCIATION (SNEFLA). PORTION OF THE SOUTH DOCK WILL REMAIN IN OPERATION. THE CONTRACTOR WILL WORK IN HARMONY WITH SNEFLA AND NOT INTERRUPT OPERATIONS.
3. THE CONTRACTOR SHALL PREPARE AND MAINTAIN A PROJECT SCHEDULE FOR THE DURATION OF THE PROJECT. THE SCHEDULE SHALL BE UPDATED NO LESS THAN EVERY TWO WEEKS.
4. THE CONTRACTOR SHALL ATTEND PROJECT MEETINGS AT A SCHEDULE DETERMINED BY THE TOWN AND REPORT TO THE TOWN PROJECT PROGRESS AT EACH PROJECT MEETING. THE CONTRACTOR SHALL PROVIDE A TWO-WEEK LOOK AHEAD OF WORK TO BE PERFORMED FOR THE PURPOSE OF IDENTIFYING ANY POTENTIAL CONFLICTS WITH SITE OPERATIONS OR OTHER ACTIVITIES.

5. SUGGESTED CONSTRUCTION METHODOLOGY:

- A. SITE PREPARATION - INSTALL FENCES, TRAILER AND SETUP BASELINE.
- B. MOBILIZATION OF CONSTRUCTION EQUIPMENT AND MATERIALS.
- C. DEMOLISH AND REMOVE 244'-0" OF EXISTING PIER AND PILES.
- D. REPAIR DAMAGED LOCATIONS ON EXISTING SEAWALL (MARKED ON PLANS).
- E. INSTALL ALL STEEL AND TIMBER PILES, INSTALL LANDWARD TI-RODS.
- F. COMPLETE ALL NECESSARY CONCRETE WORK FOR BOTH LAND AND PILES.
- G. INSTALL STEEL AND TIMBER FRAMING MEMBERS FOR PIER.
- H. INSTALL CATWALK, TIE FENDERS AND STORM BOLLARDS.
- I. RE-PAVE ASPHALT TO RETURN SITE BACK TO ORIGINAL CONDITION.
- J. CLEAN-UP AND REMOVE EQUIPMENT AND EXTRA MATERIALS FROM SITE.

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PROJECT NOTES
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025

PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

APPROVED

DATE

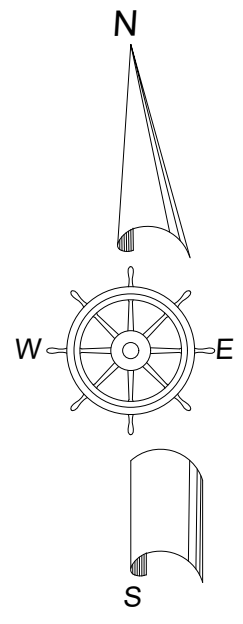
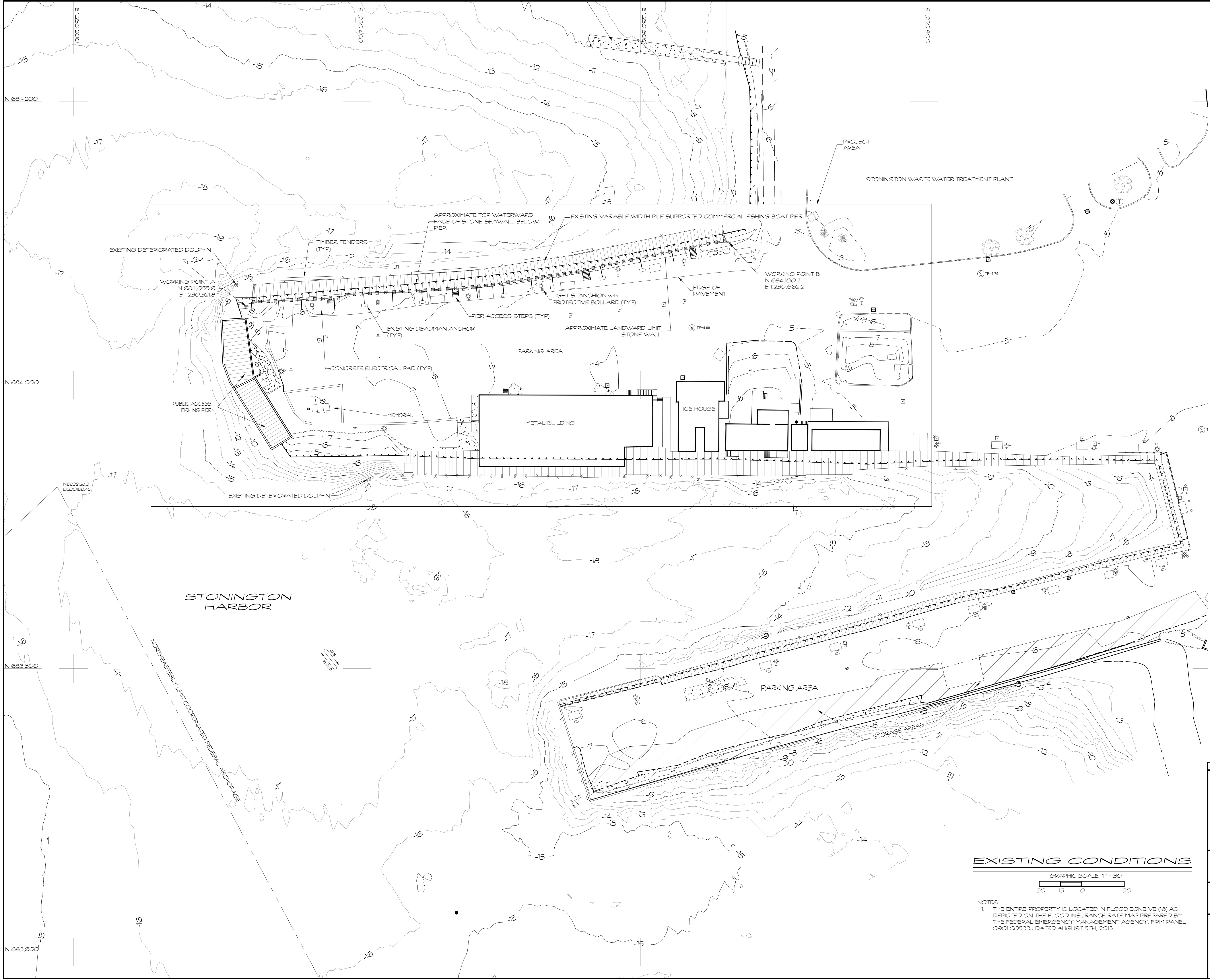
SHEET 2

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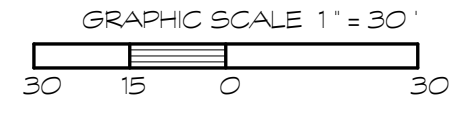
ALL BATHYMETRY IS IN MLLWD
ALL LAND CONTOURS SPOT AND OTHER SPECIFIED ELEVATIONS
ARE IN NAVD-88
3/31/25 ISSUE FOR BID

EXISTING SITE PLAN
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025

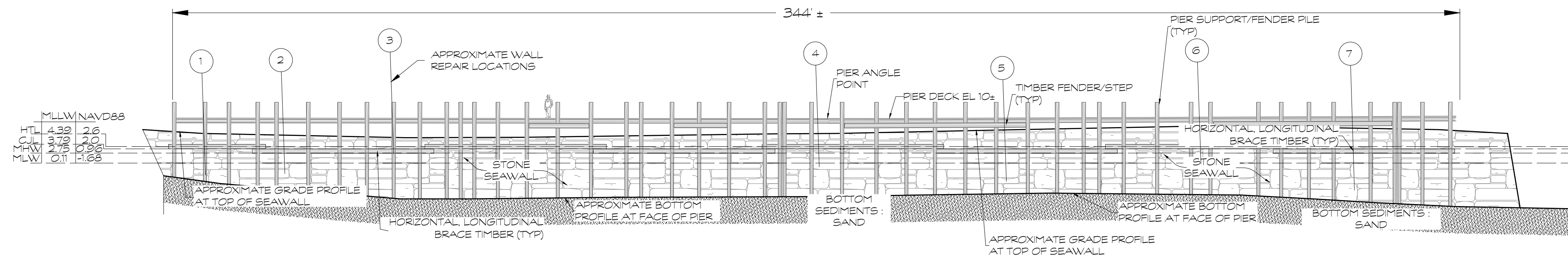
PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

APPROVED	DATE	
SHEET 3		
PREPARED BY: DOCKO		
SOUND ENGINEERING ASSOCIATES HYSTIC, CT 06355 860.572.4939 EMAIL: office@docko.com		

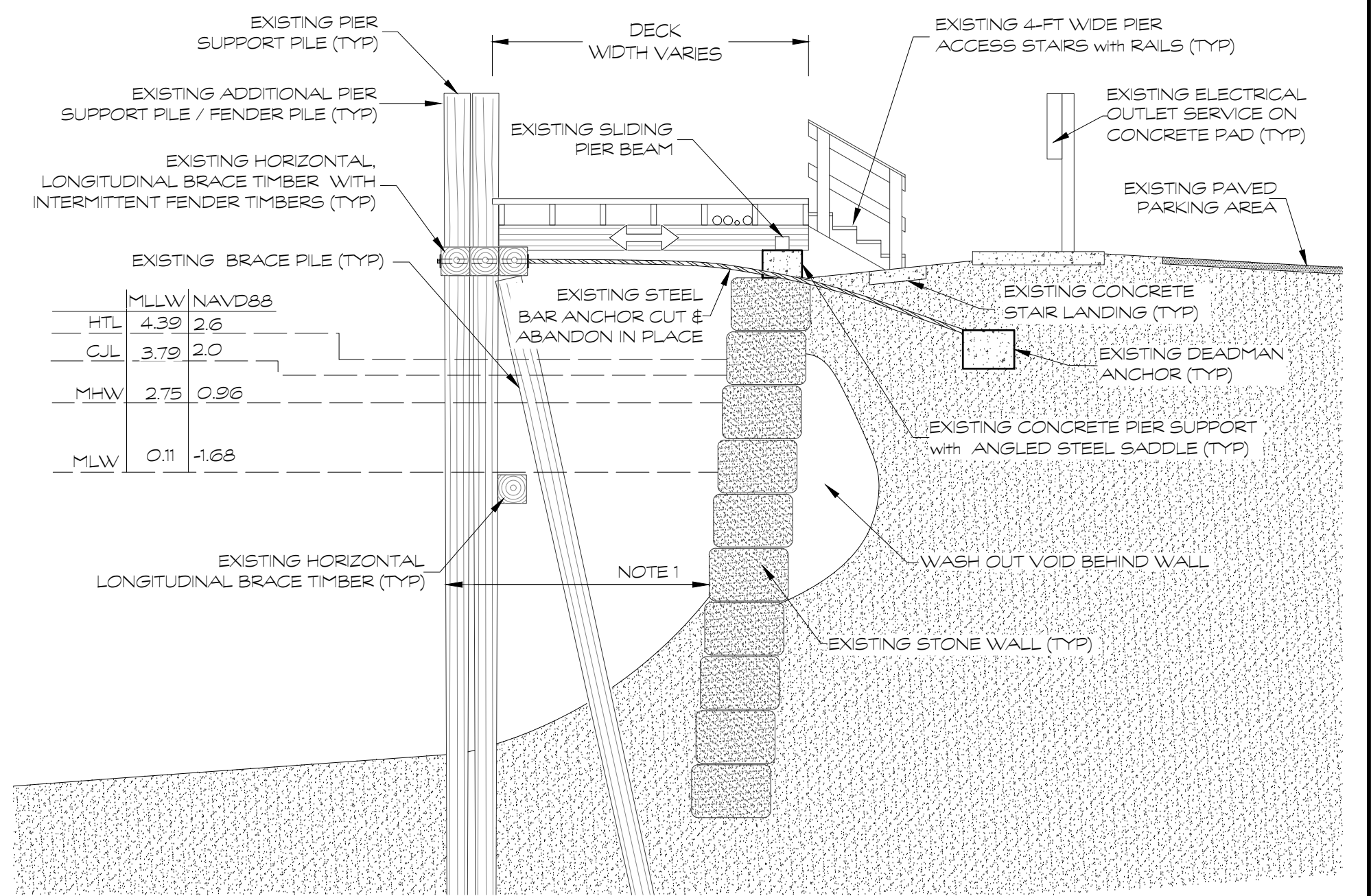
EXISTING CONDITIONS



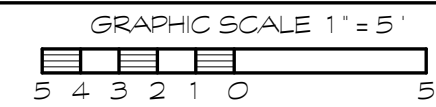
NOTES:
1. THE ENTIRE PROPERTY IS LOCATED IN FLOOD ZONE VE (16) AS
DEPICTED ON THE FLOOD INSURANCE RATE MAP PREPARED BY
THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FIRM PANEL
09010533J DATED AUGUST 5TH, 2013.



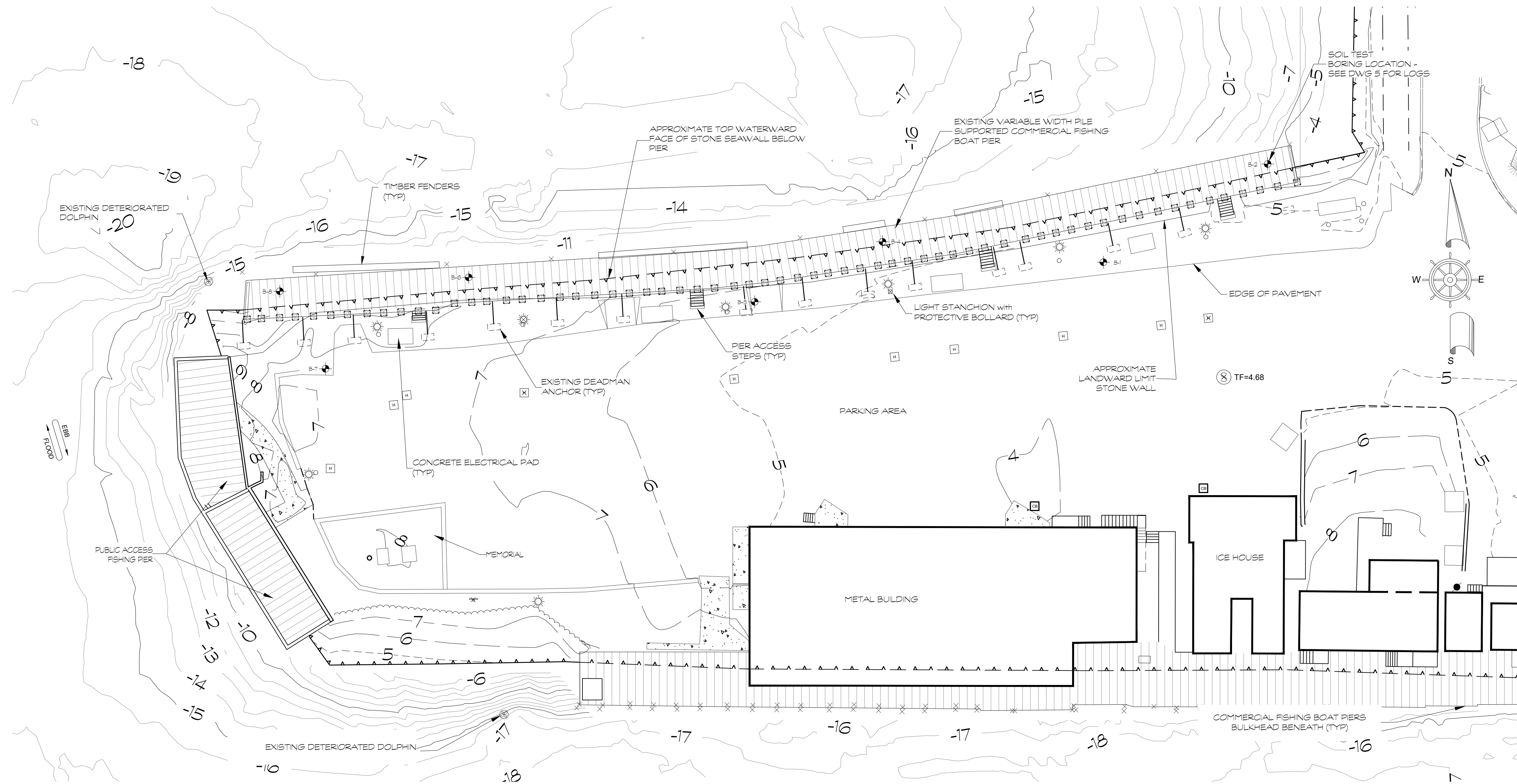
DEVELOPED ELEVATION



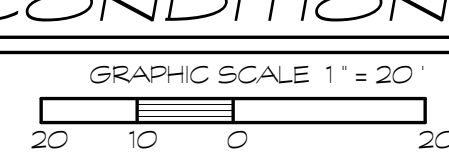
EXISTING PIER SECTION



1. A DEBRIS FIELD EXISTS AT THE MUDLINE UNDER EXISTING DOCK. CONTRACTOR SHALL REMOVE AND DISPOSE OF DEBRIS AS REQUIRED FOR NEW WORK.



EXISTING CONDITIONS



ALL BATHYMETRY IS IN MLLWD
ALL LAND CONTOURS SPOT AND OTHER SPECIFIED ELEVATIONS ARE IN NAVD88

03/31/25 ISSUE FOR BID

EXISTING DOCK PLAN
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025

PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

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SHEET 4

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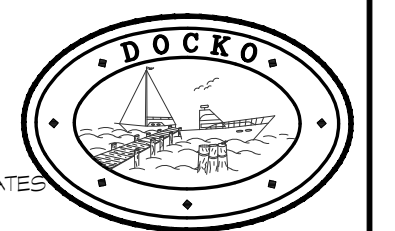
DOCKO

SOUND ENGINEERING ASSOCIATES

HYSTIC, CT 06355

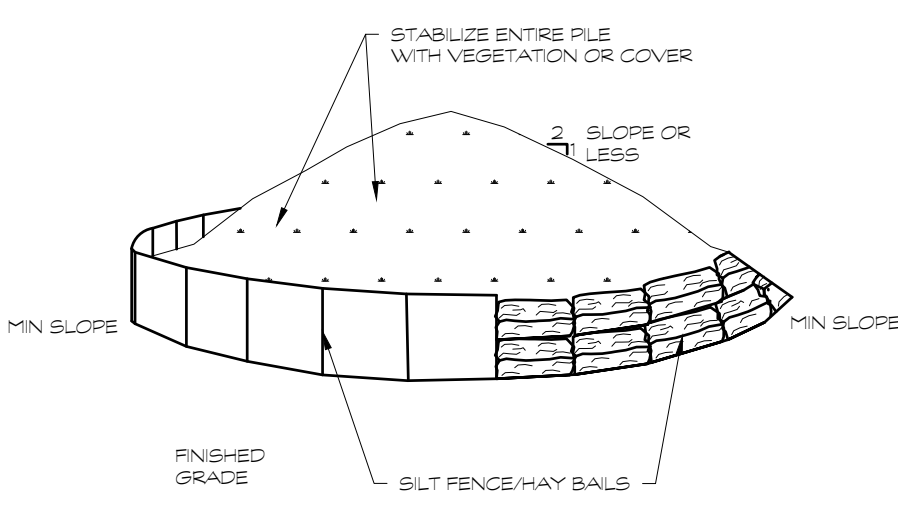
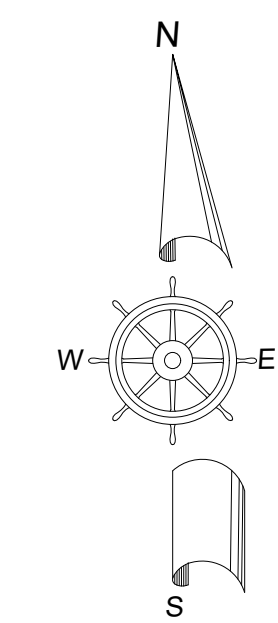
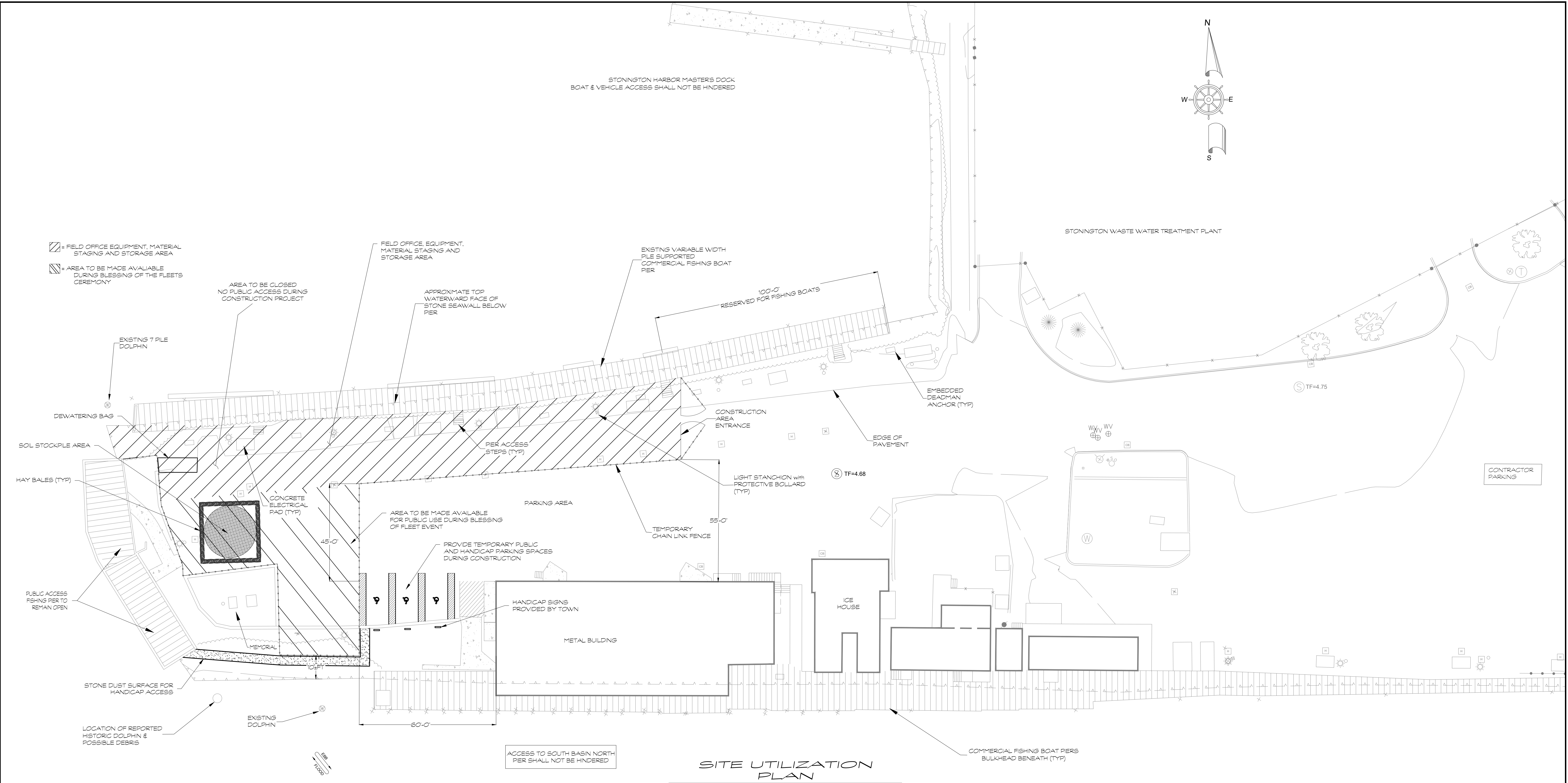
860 572-8939

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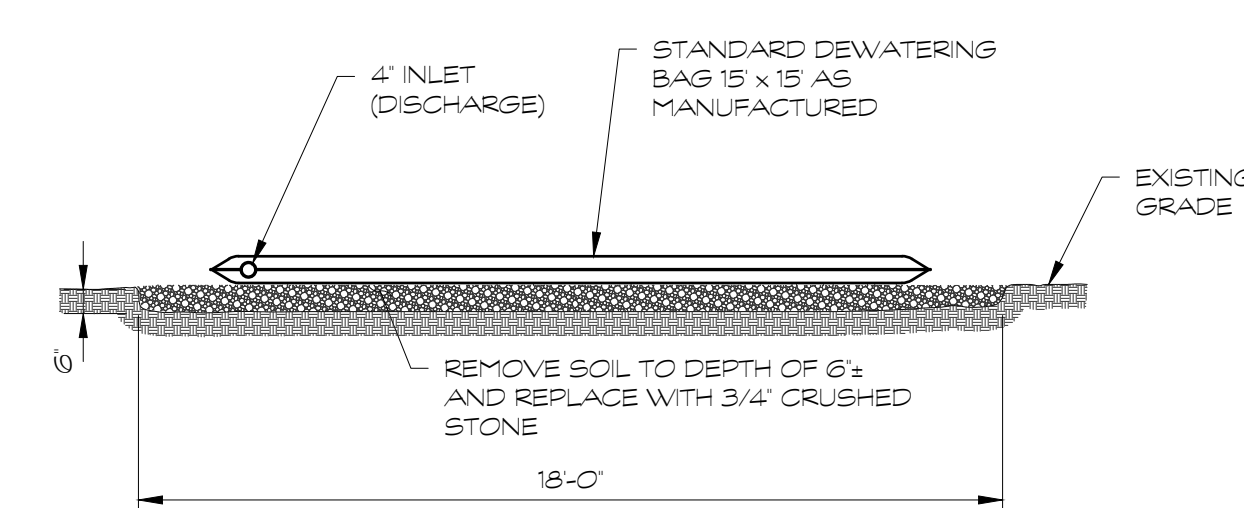
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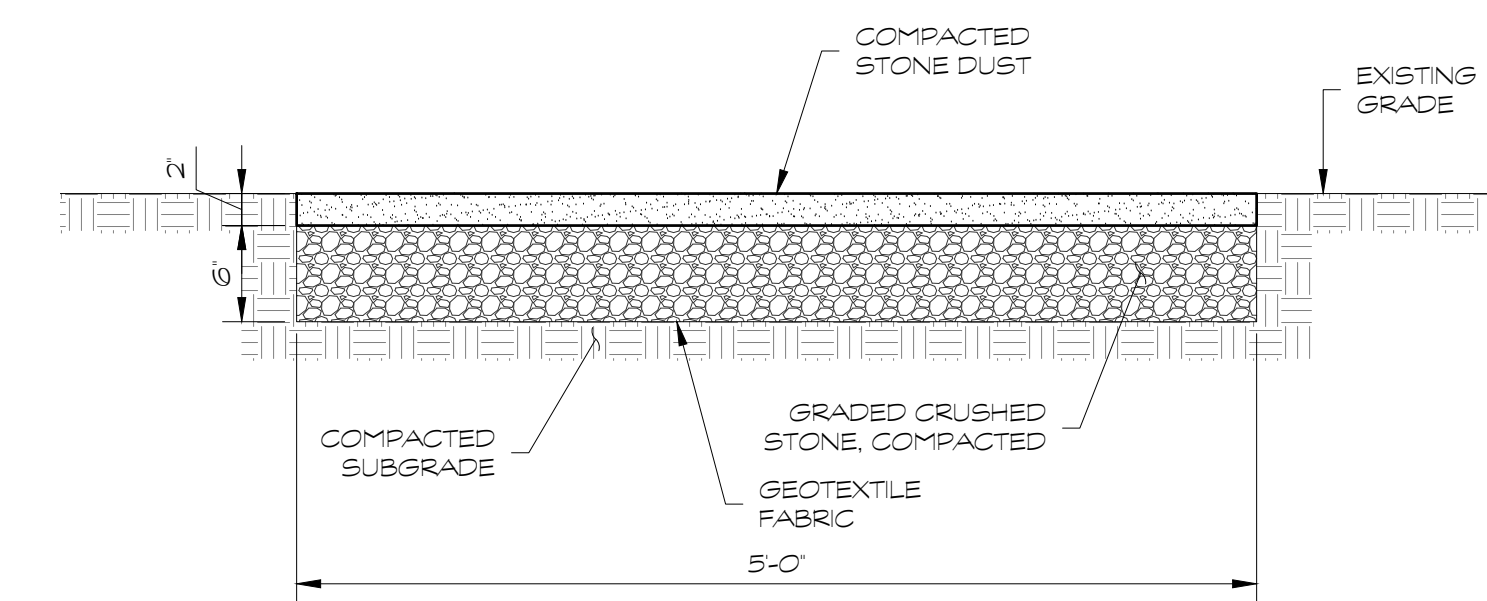
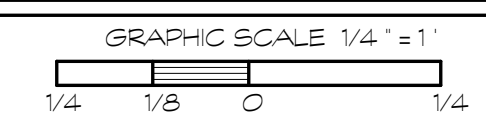


- NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATION SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH REINFORCED SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.

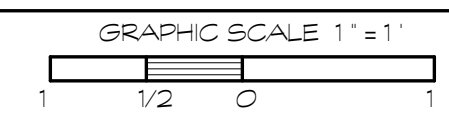
SOIL STOCKPILE
N.T.S.



**DEWATERING BAG
DETAIL**



**STONEDUST
WALKWAY DETAIL**



ALL BATHYMETRY IS IN MLLWD
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3/31/25 ISSUE FOR BID

**SITE UTILIZATION PLAN
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025**

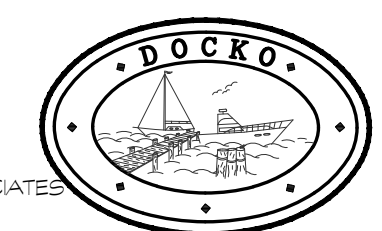
PROPERTY OF
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CONNECTICUT

APPROVED _____ DATE _____

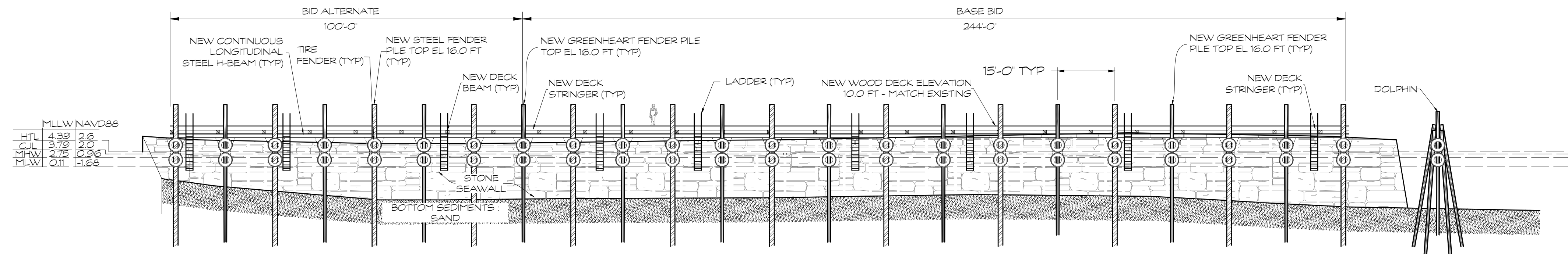
SHEET 6

PREPARED BY:
DOCKO

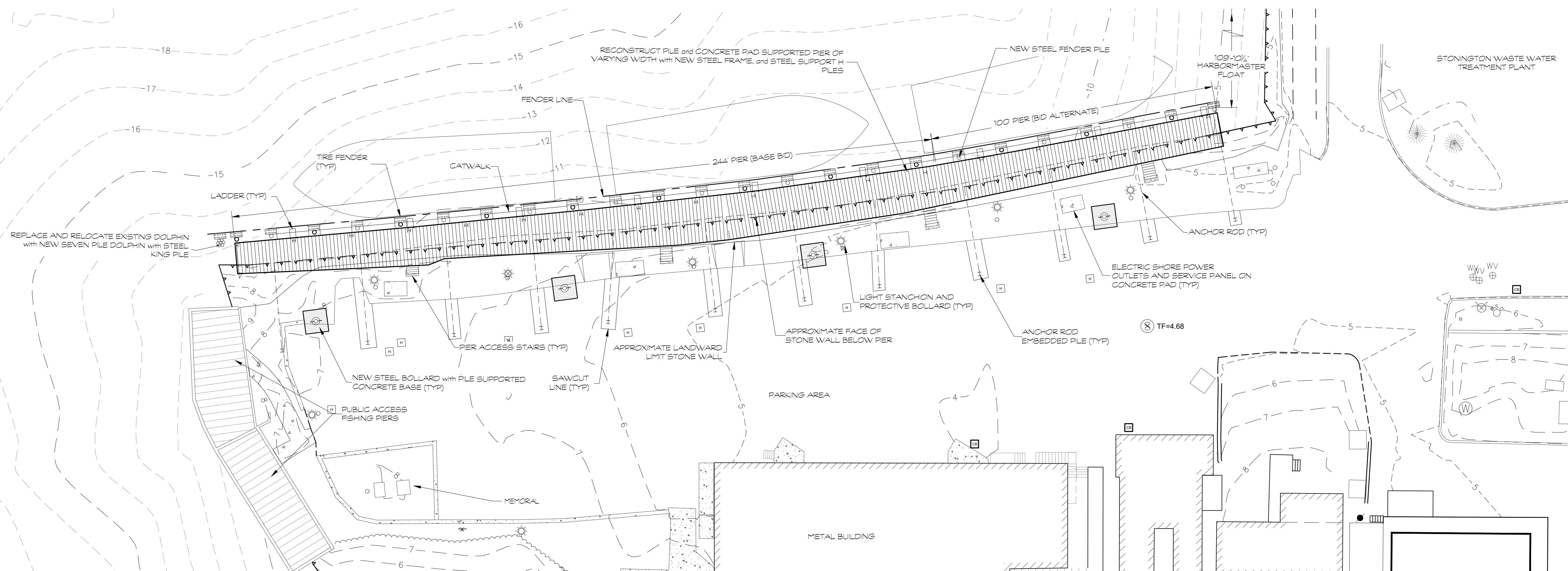
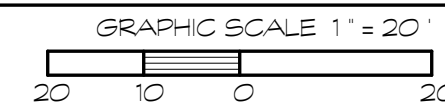
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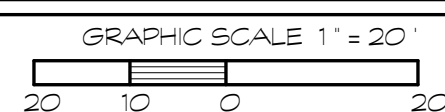
DWG 24-02-3325



DEVELOPED ELEVATION



PLAN VIEW



NOTE:
CONTRACTOR SHALL TEMPORARILY REMOVE
FIRE EXTINGUISHER(S), UTILITIES, SIGNS AND
OTHER INCIDENTAL FIXED EQUIPMENT AND
REINSTALL ON NEW DOCK.

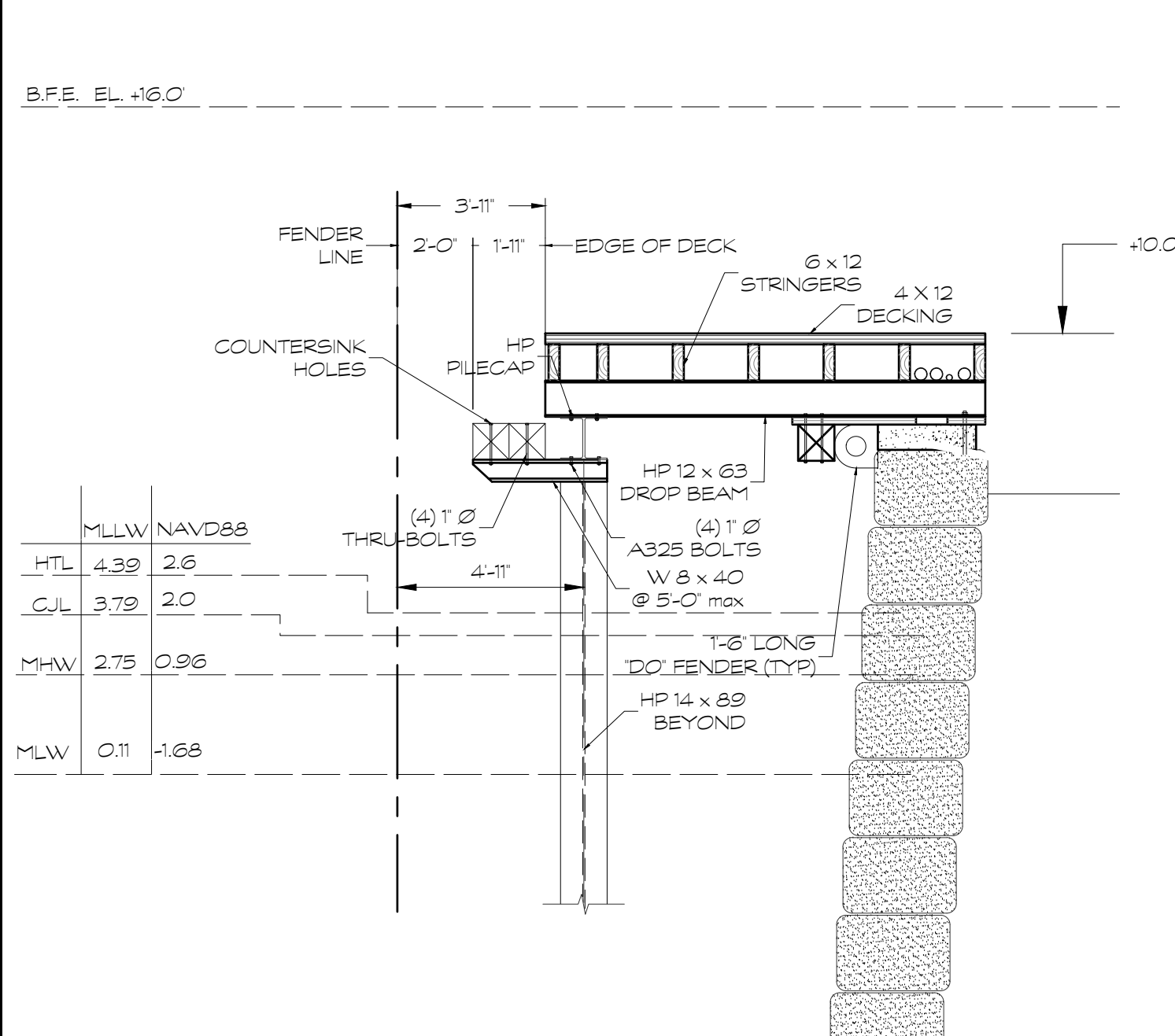
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ARE IN NAVD-88

3/31/25 ISSUE FOR BID

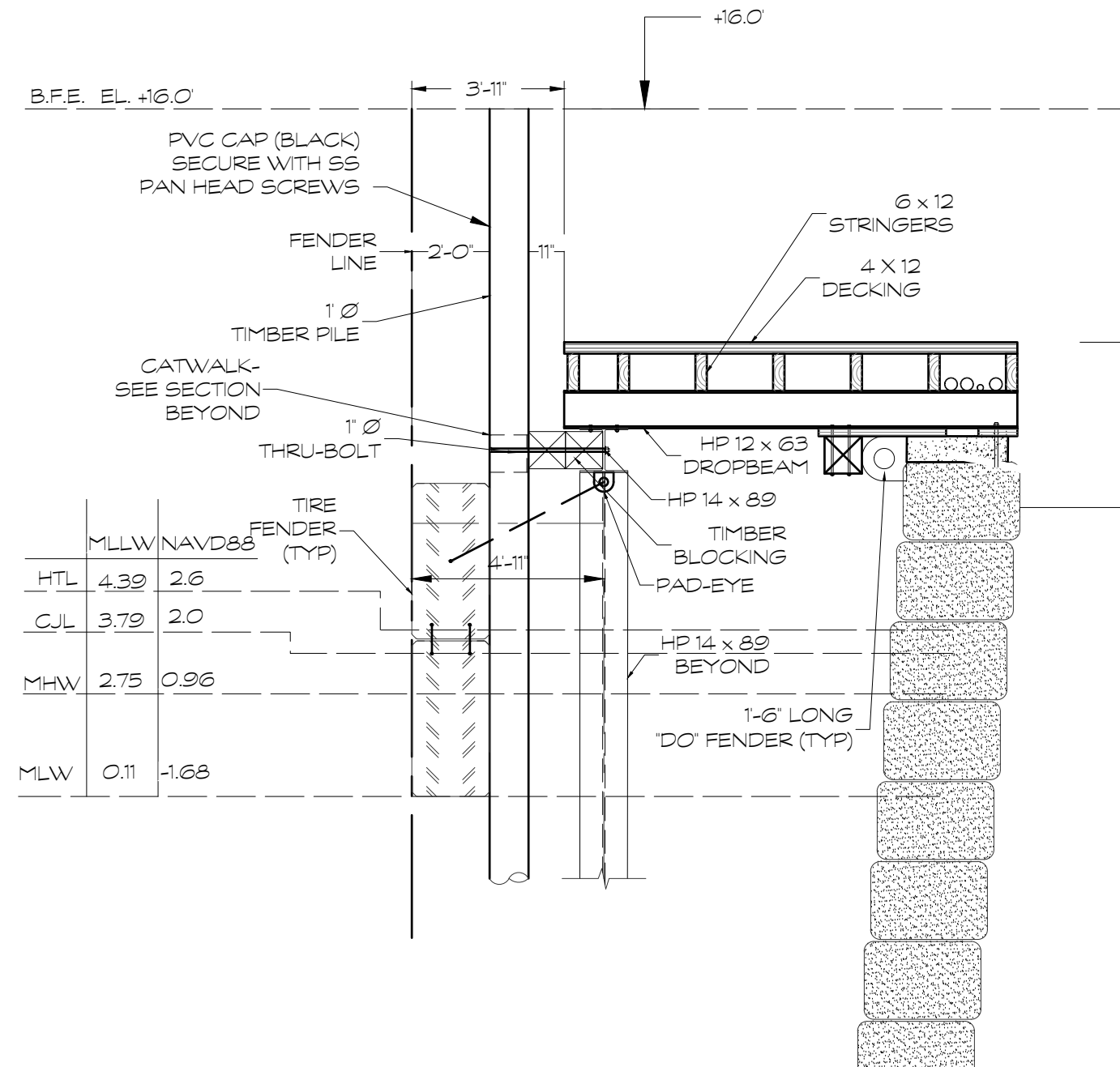
**DOCK PLAN & ELEVATION
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025**

PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

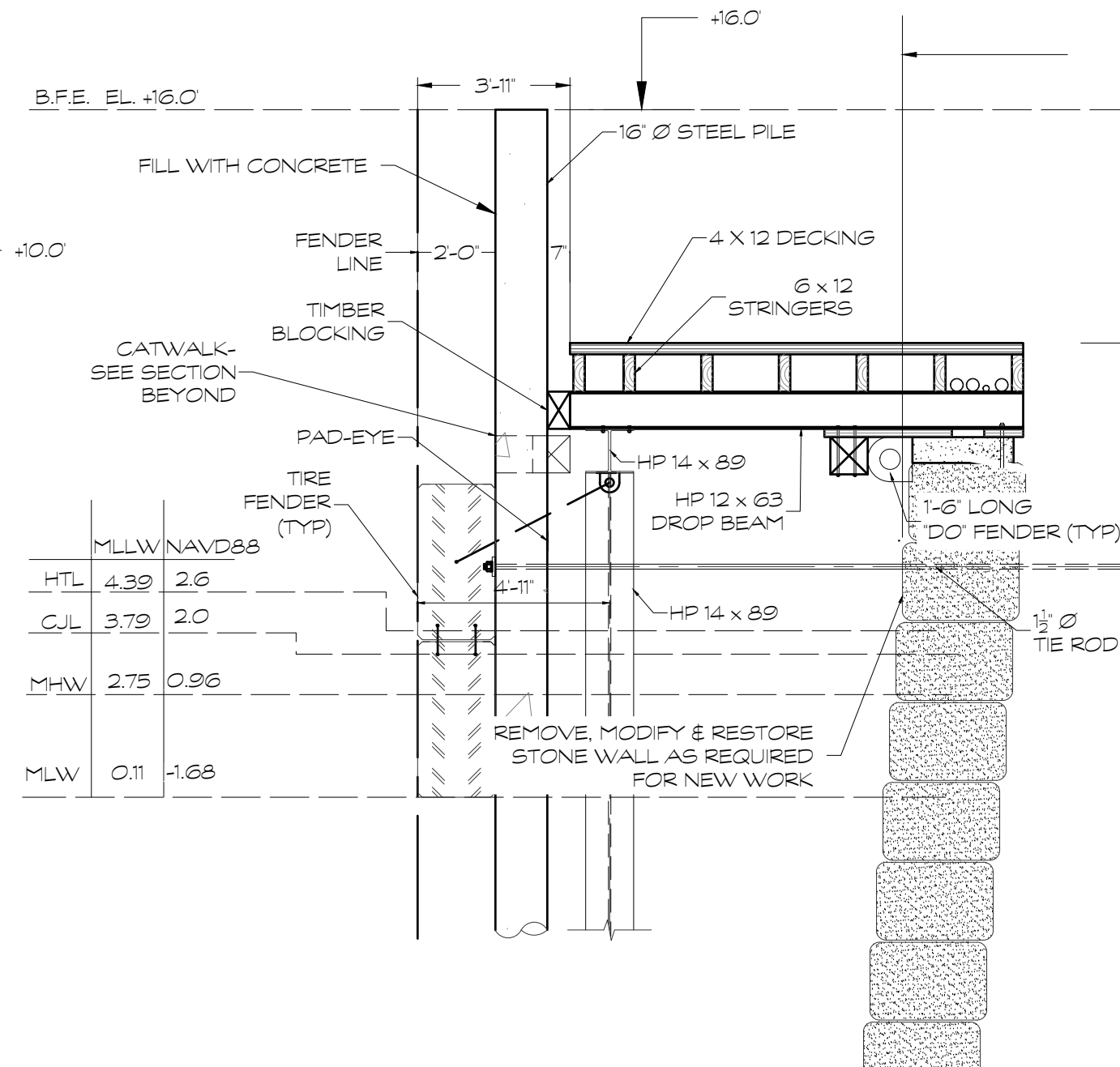
APPROVED	DATE
SHEET 7	
PREPARED BY: DOCKO SOUND ENGINEERING ASSOCIATES MYSTIC, CT 06355 860 572-8939 EMAIL: office@docko.com	



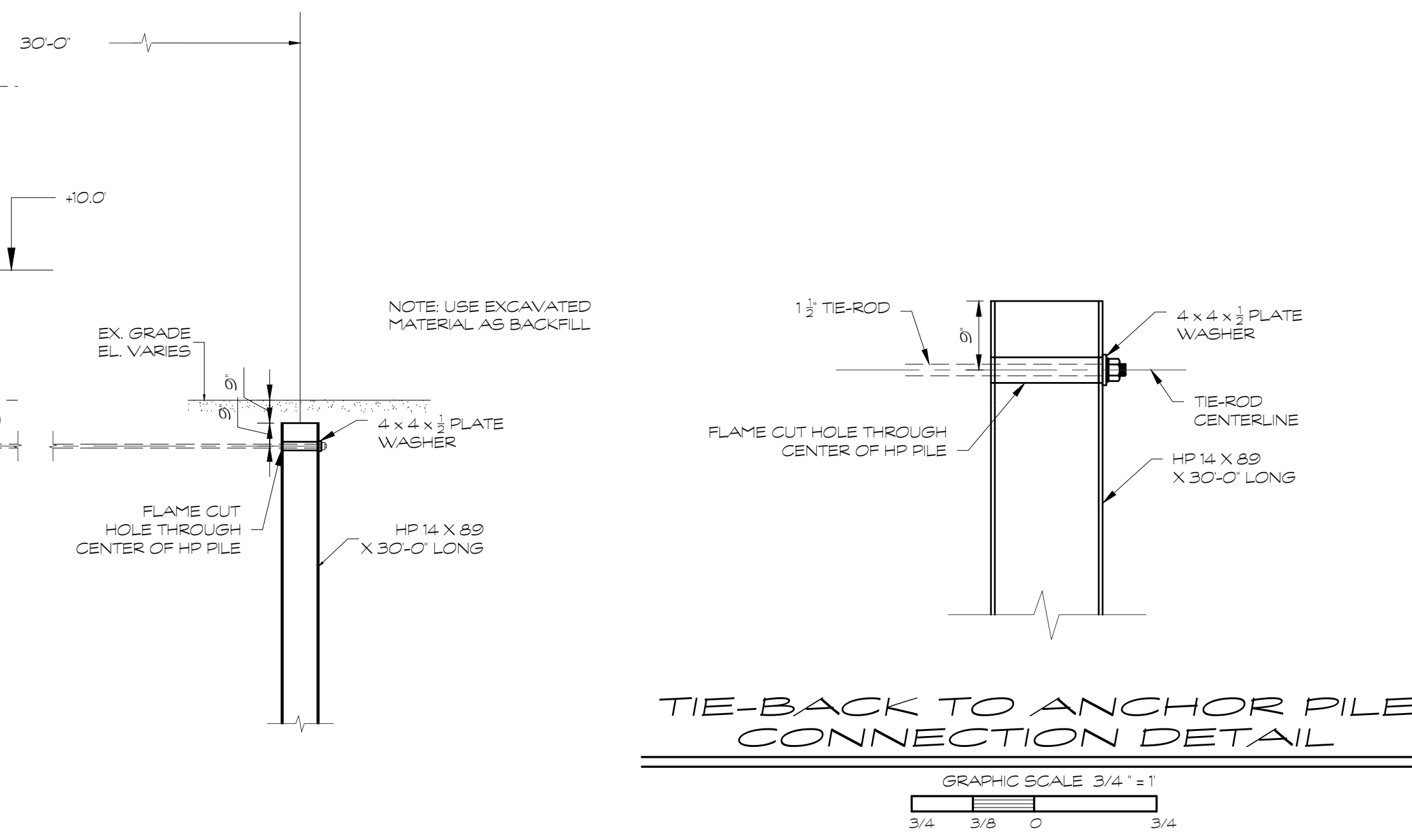
SECTION AT CATWALK



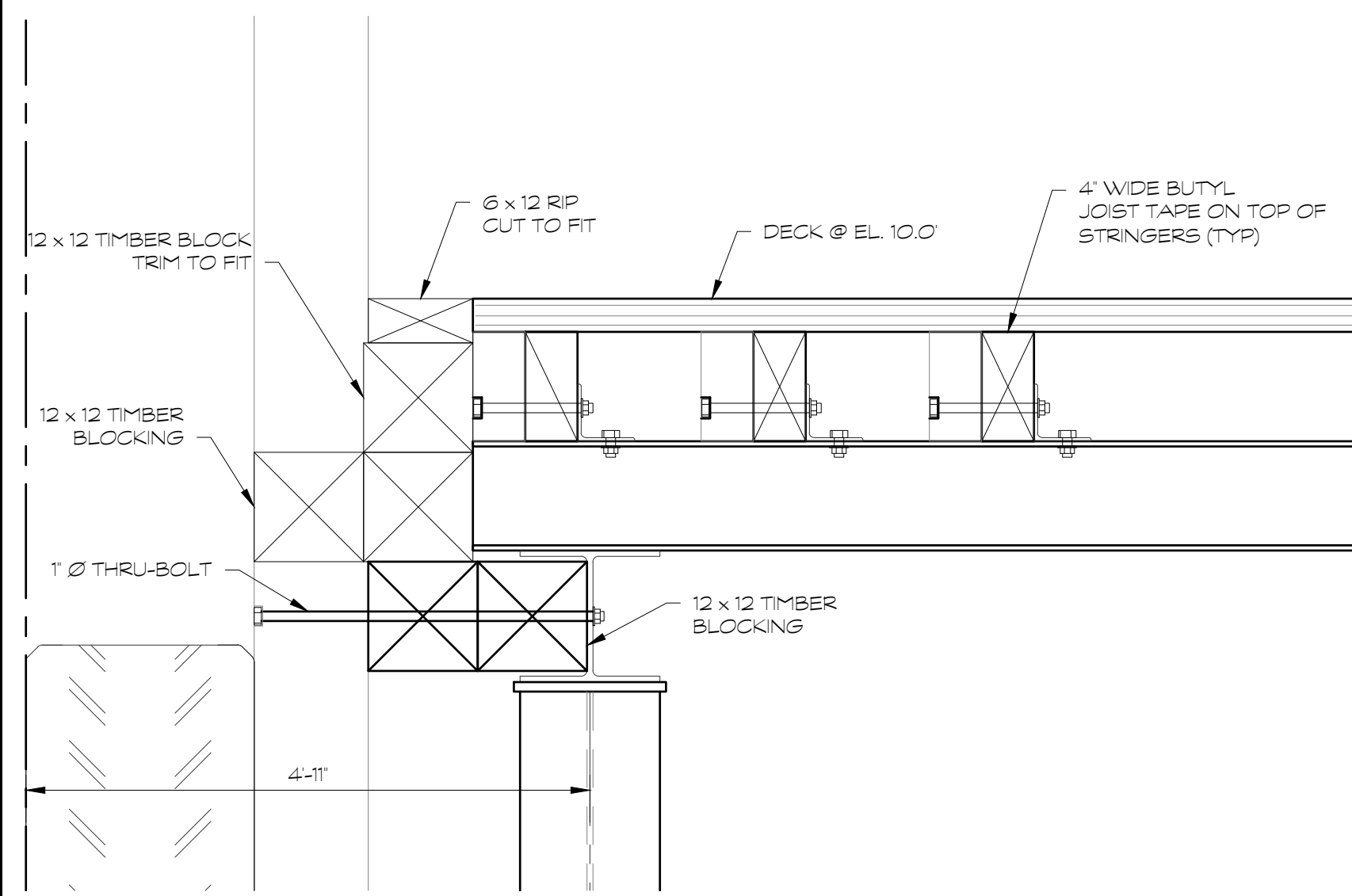
SECTION AT TIMBER PILE



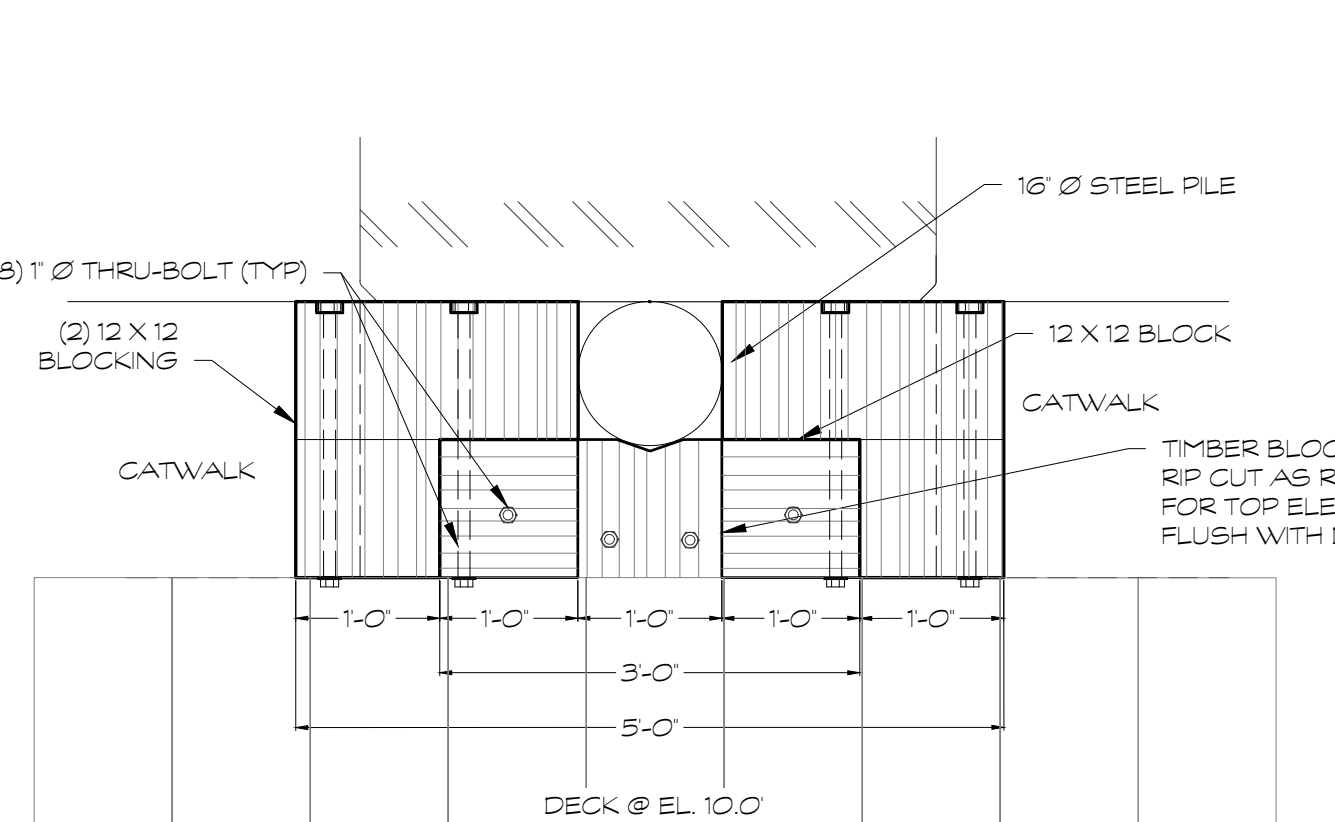
SECTION AT STEEL PILE



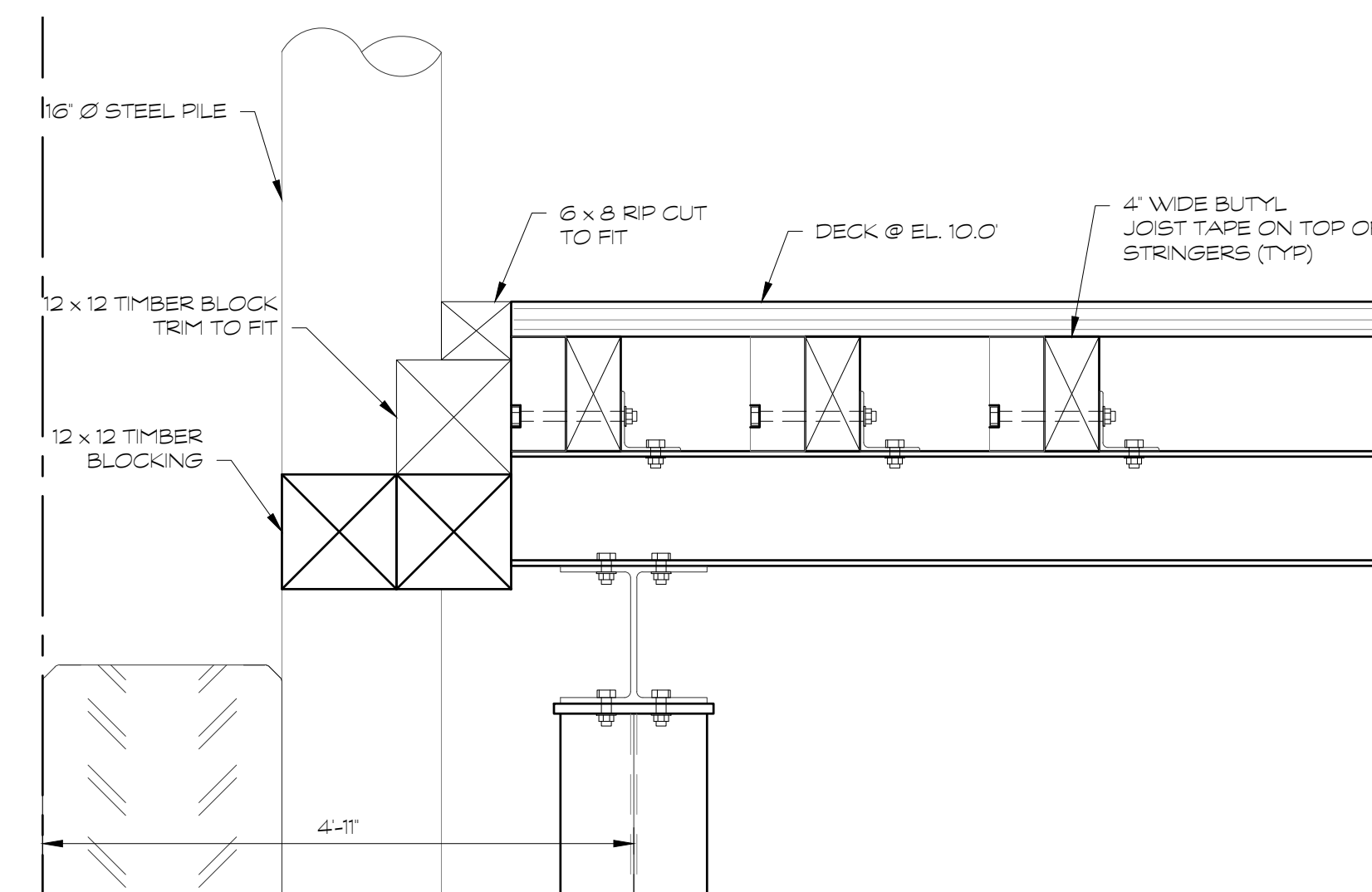
TIE-BACK TO ANCHOR PILE
CONNECTION DETAIL



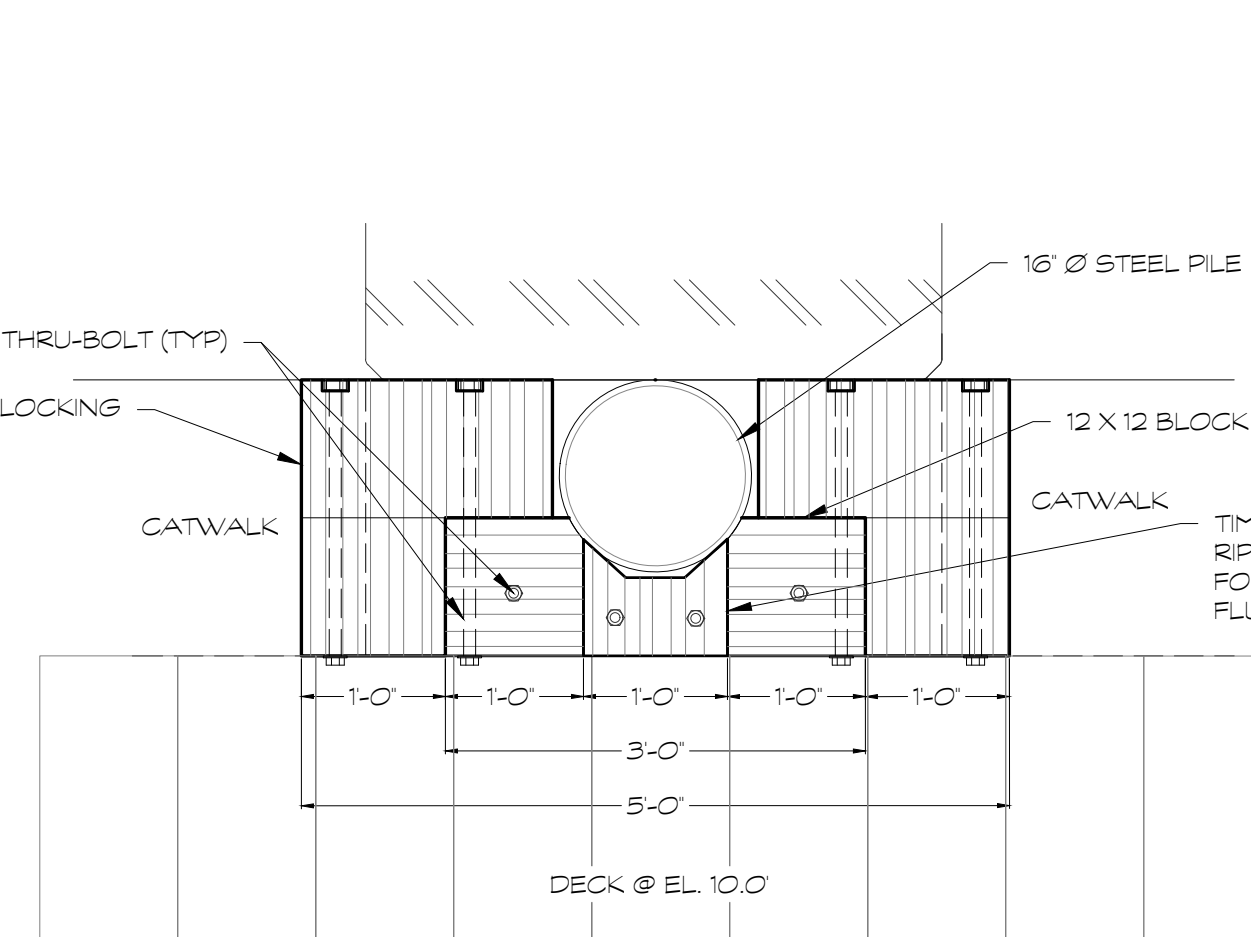
SECTION VIEW AT TIMBER PILE



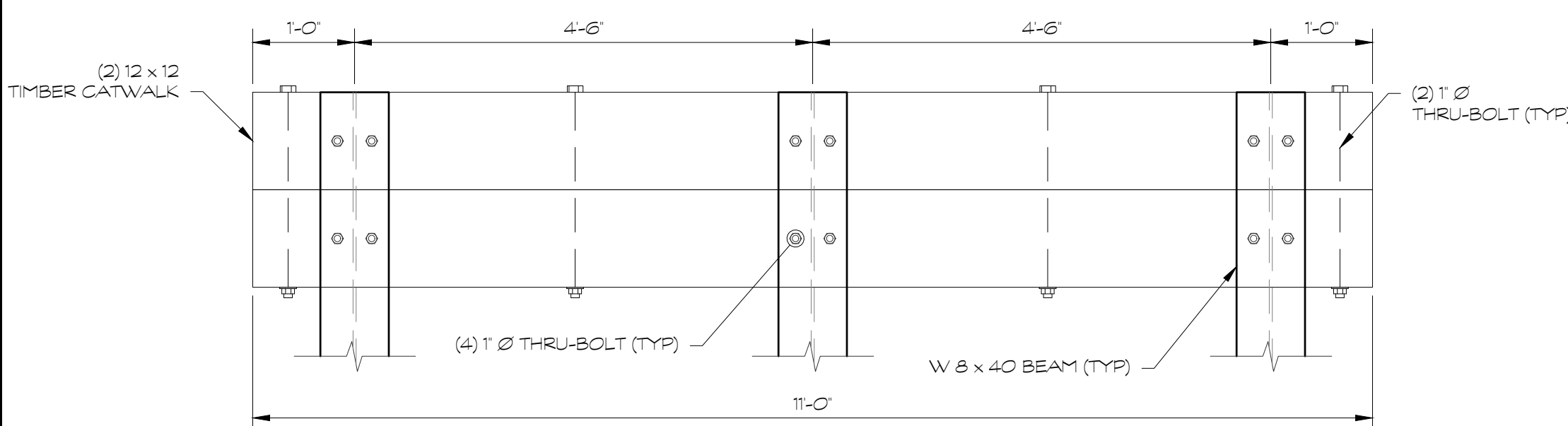
PLAN DETAIL AT TIMBER PILE



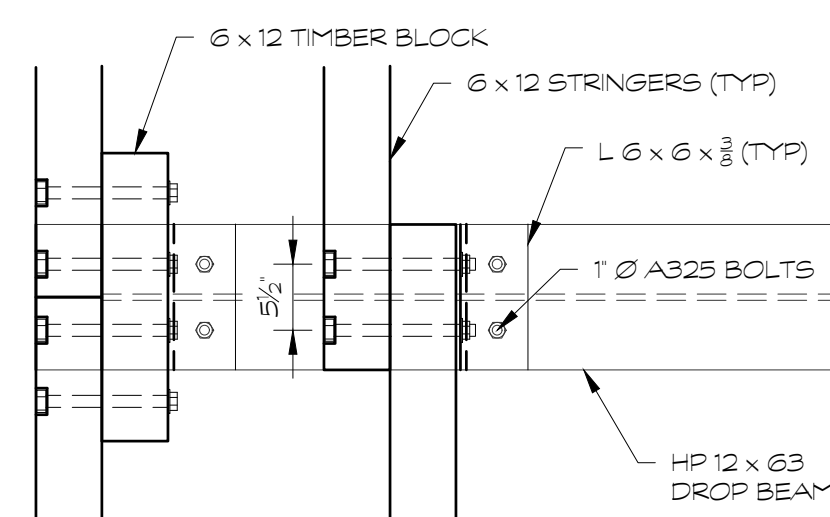
SECTION VIEW AT STEEL PILE



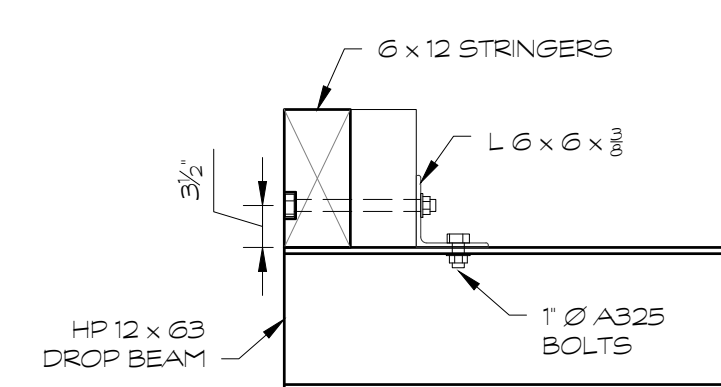
PLAN DETAIL AT STEEL PILE



TYPICAL CATWALK PLAN



PLAN VIEW AT STRINGERS



SECTION VIEW AT STRINGERS



ALL BATHYMETRY IS IN MLLWD
ALL LAND CONTOURS SPOT AND OTHER SPECIFIED ELEVATIONS
ARE IN NAVD-88

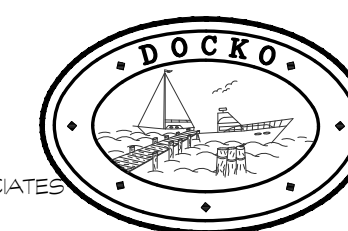
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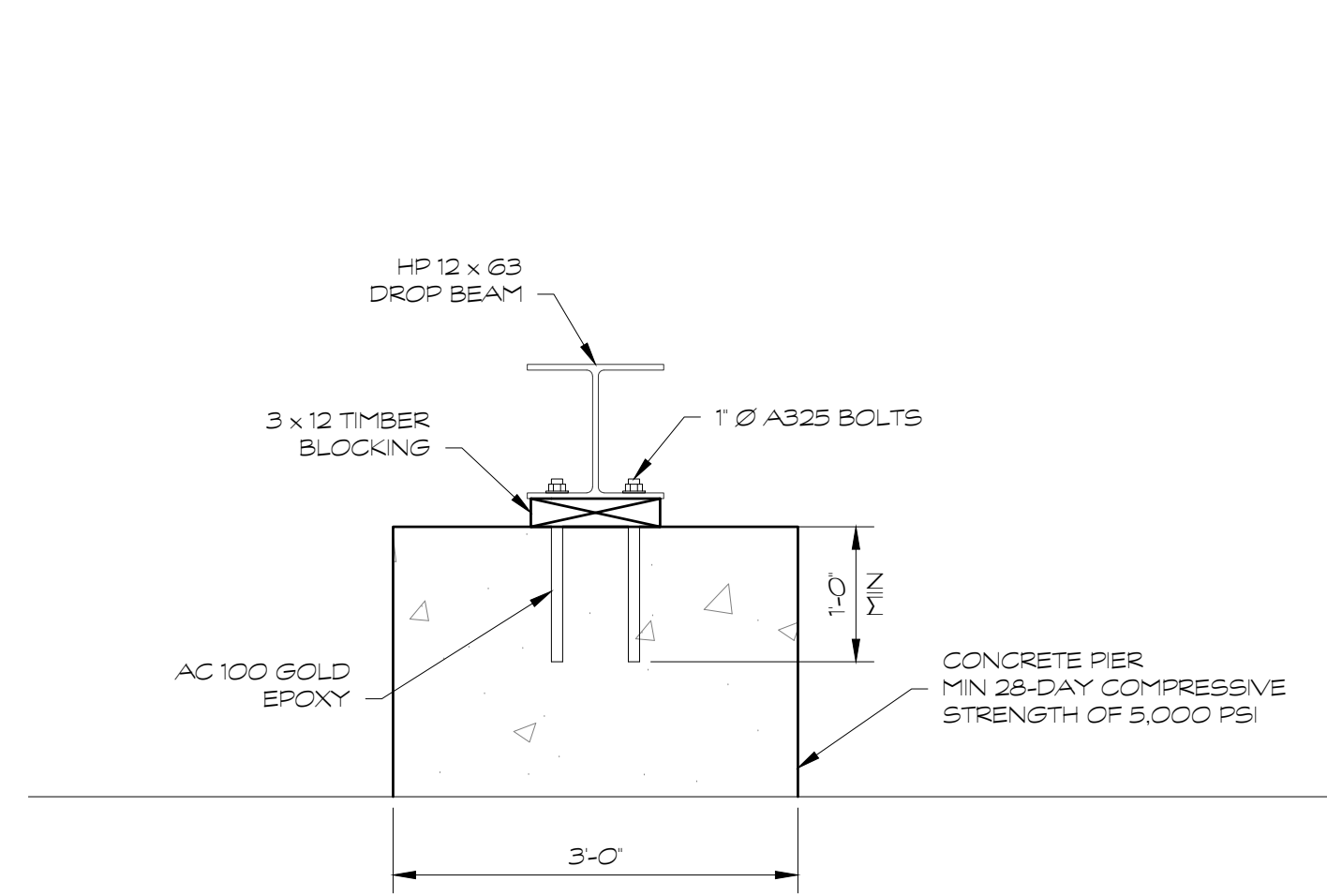
TYPICAL DETAILS
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025

PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

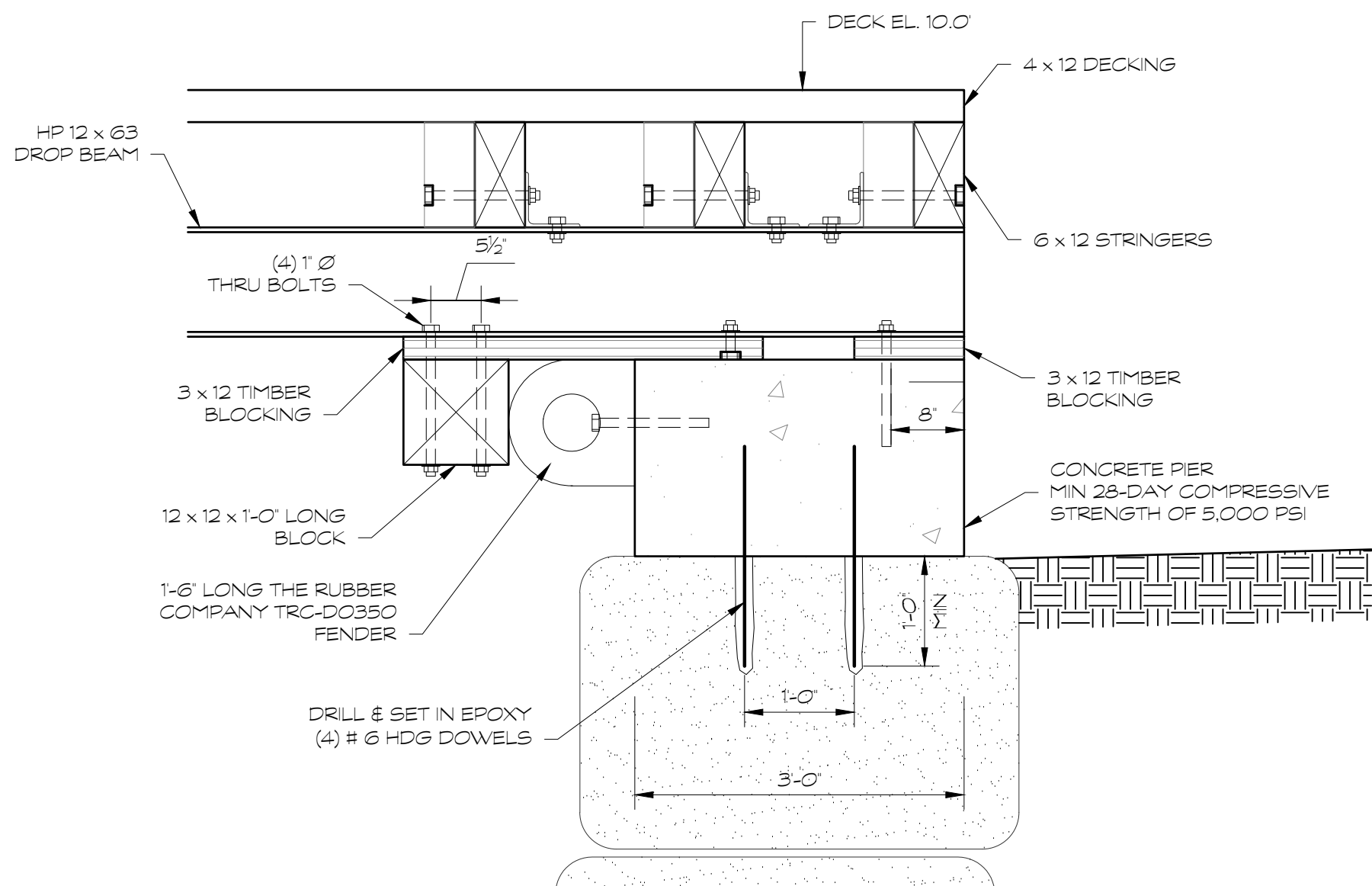
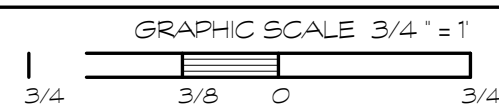
APPROVED
DATE

SHEET 8
PREPARED BY:
DOCKO
SOUND ENGINEERING ASSOCIATES
WYTHICUT 06355
860 572-8939
EMAIL: office@docko.com

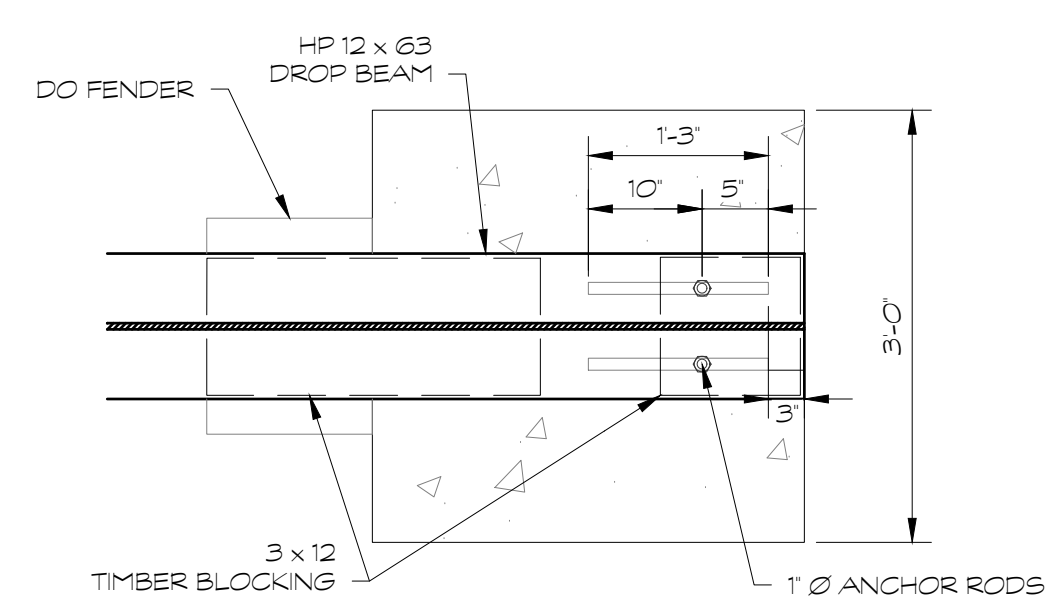
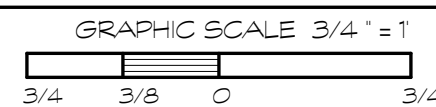




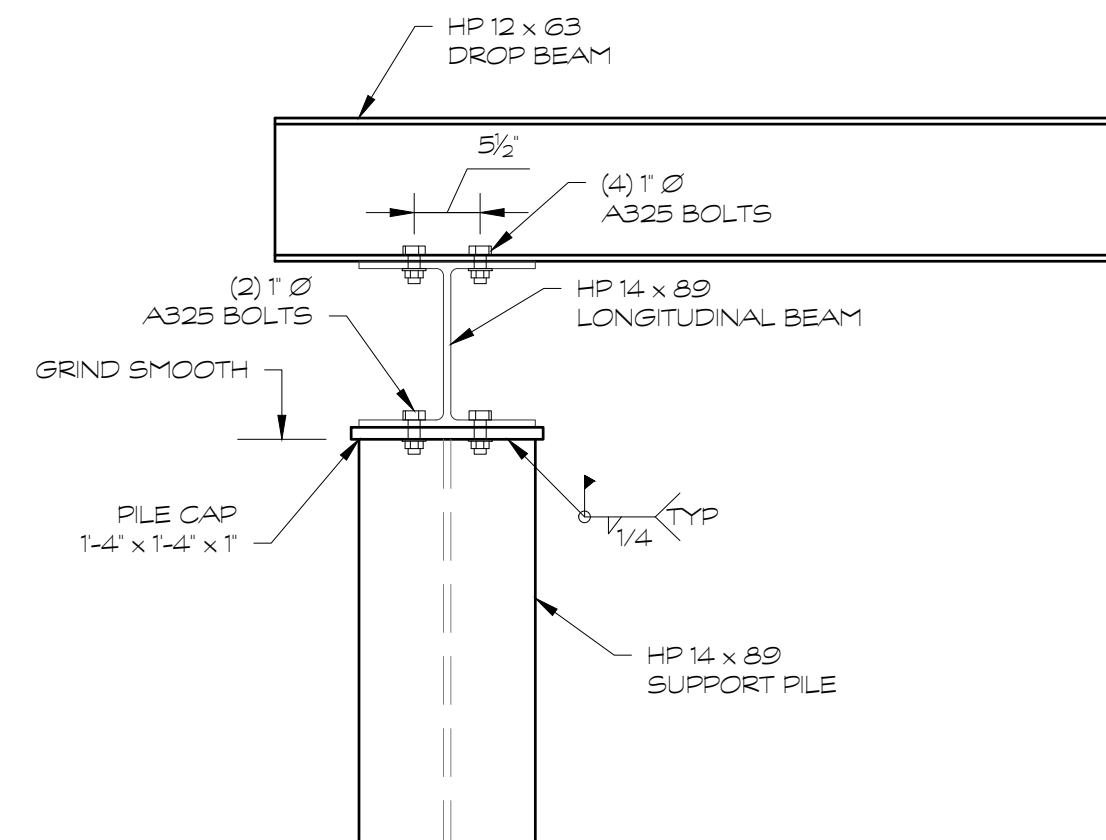
PROFILE VIEW AT CONCRETE PIER



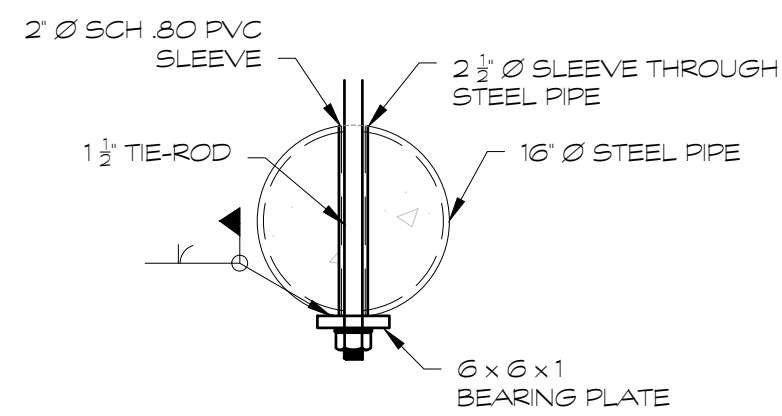
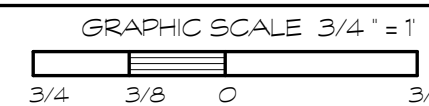
PROFILE VIEW AT CONCRETE PIER



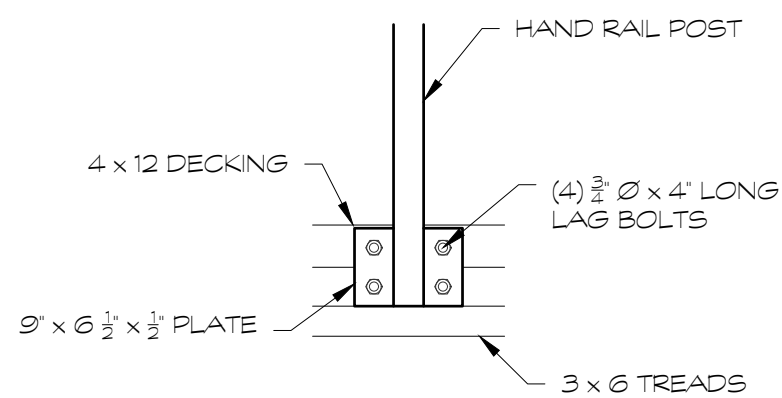
PLAN VIEW AT CONCRETE PIER



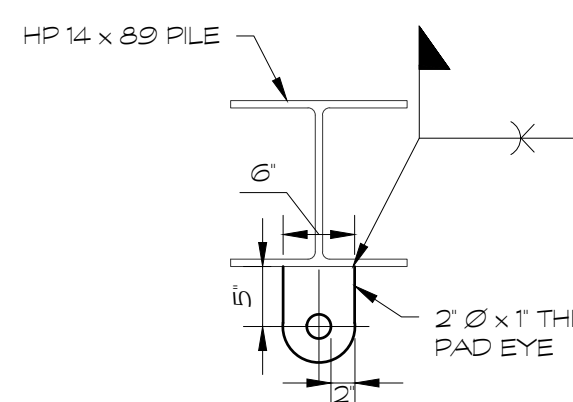
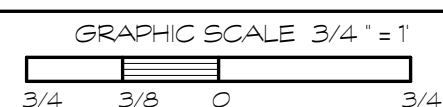
TYPICAL BEAM CONNECTIONS



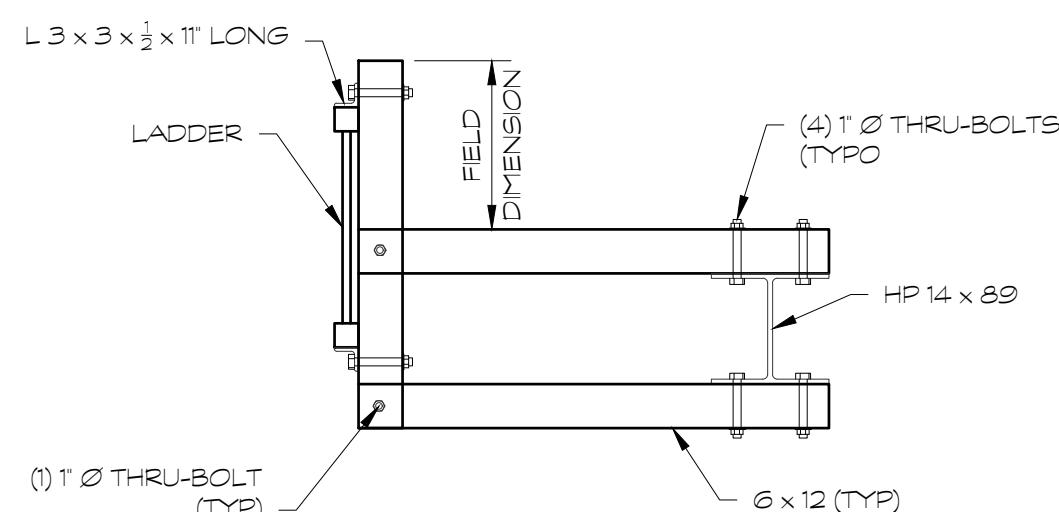
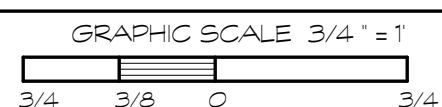
TYPICAL TIE-ROD CONNECTION DETAIL



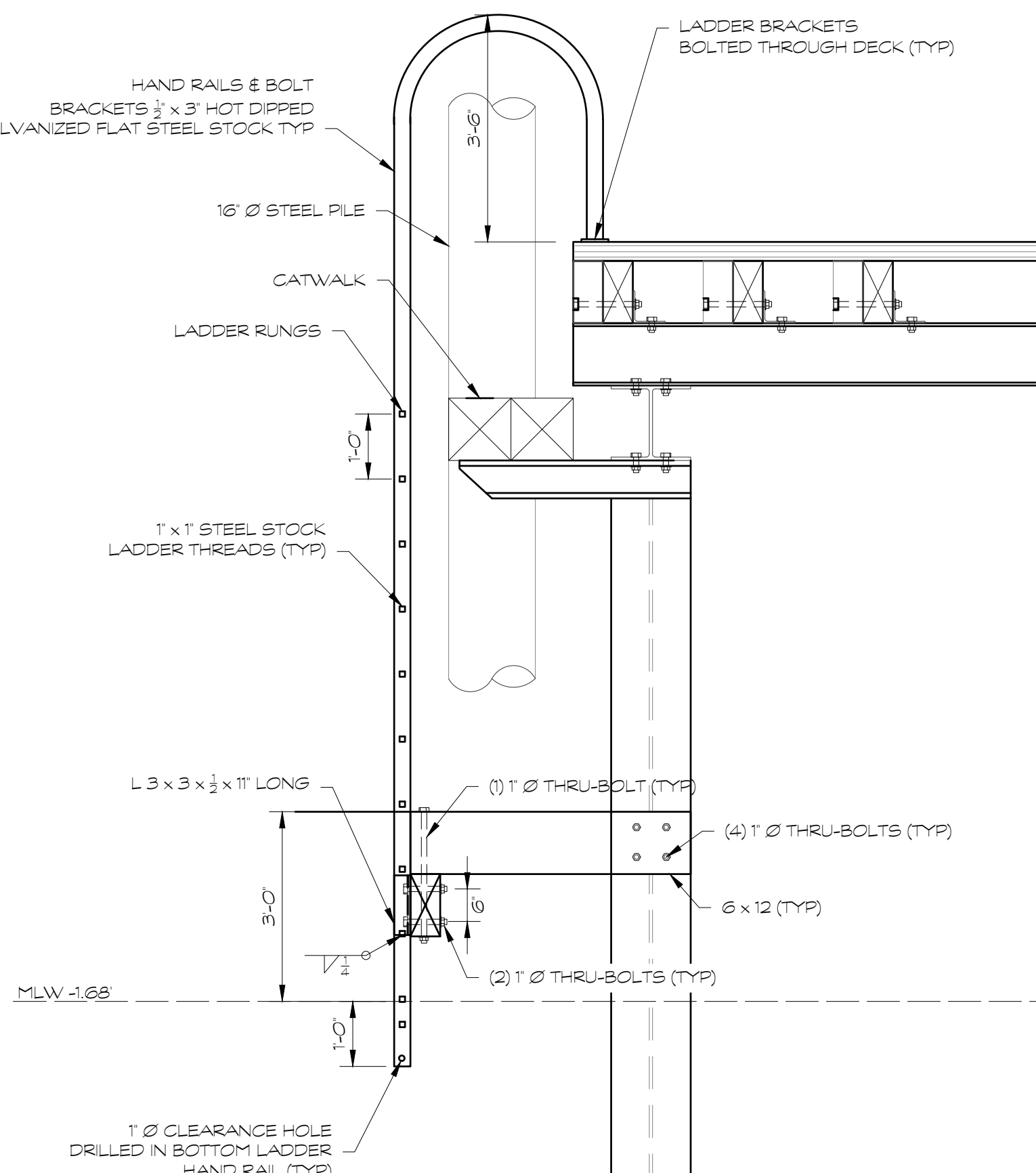
TYPICAL HAND RAIL POST CONNECTION



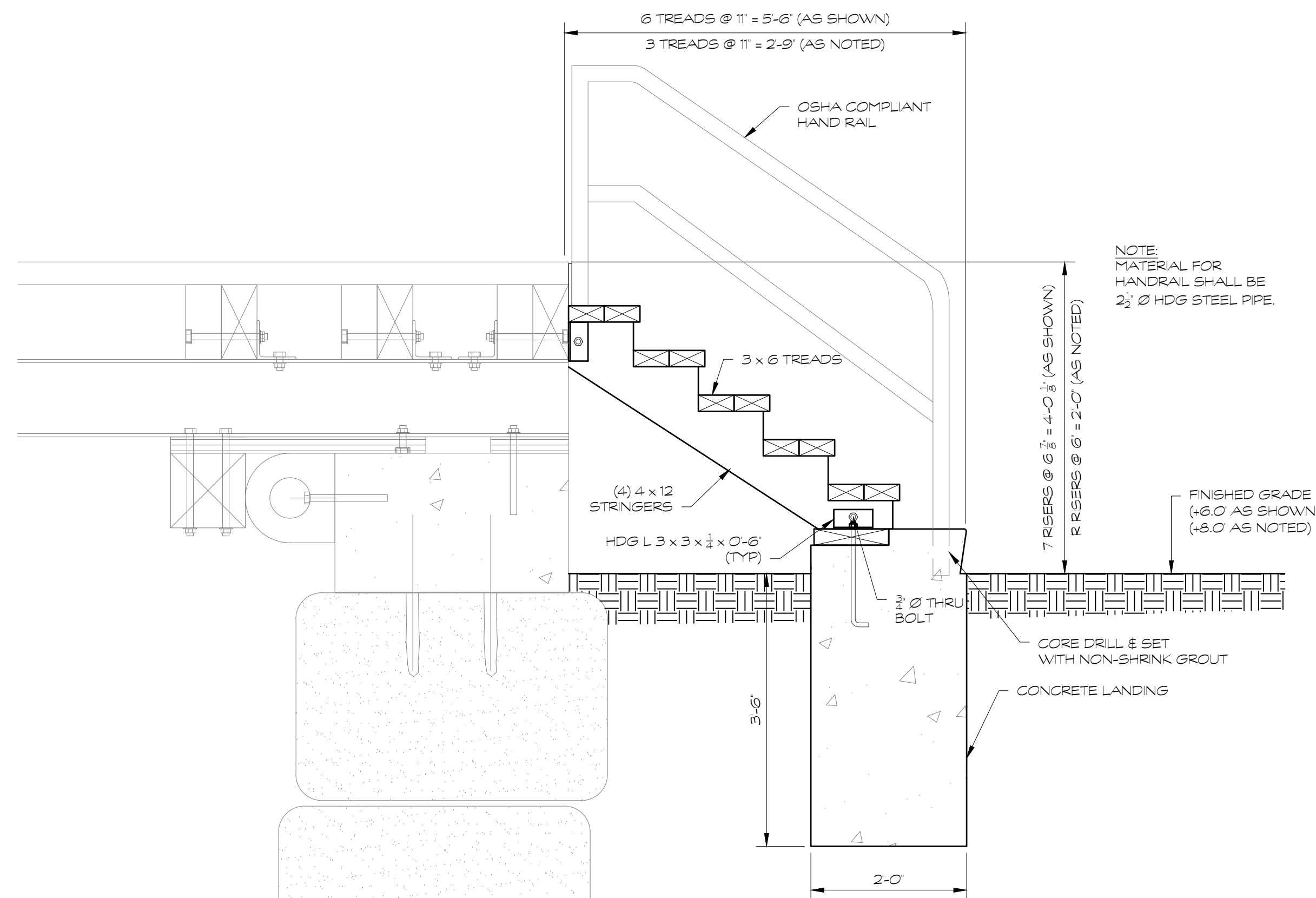
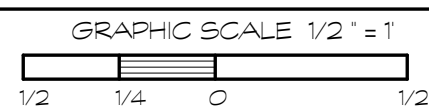
TIRE FENDER PAD EYE CONNECTION DETAIL



PLAN VIEW AT LADDER



TYPICAL LADDER DETAIL



TYPICAL STAIR DETAIL



ALL BATHYMETRY IS IN MLLWD
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TYPICAL DETAILS
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025

PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

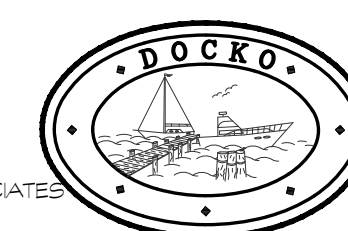
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DATE

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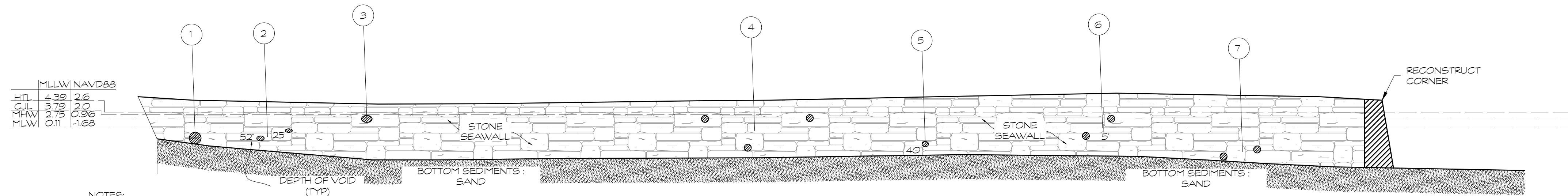
PREPARED BY:
DOCKO

SOUND ENGINEERING ASSOCIATES
PHYSICIST 06355
860 572-8939
EMAIL: office@docko.com



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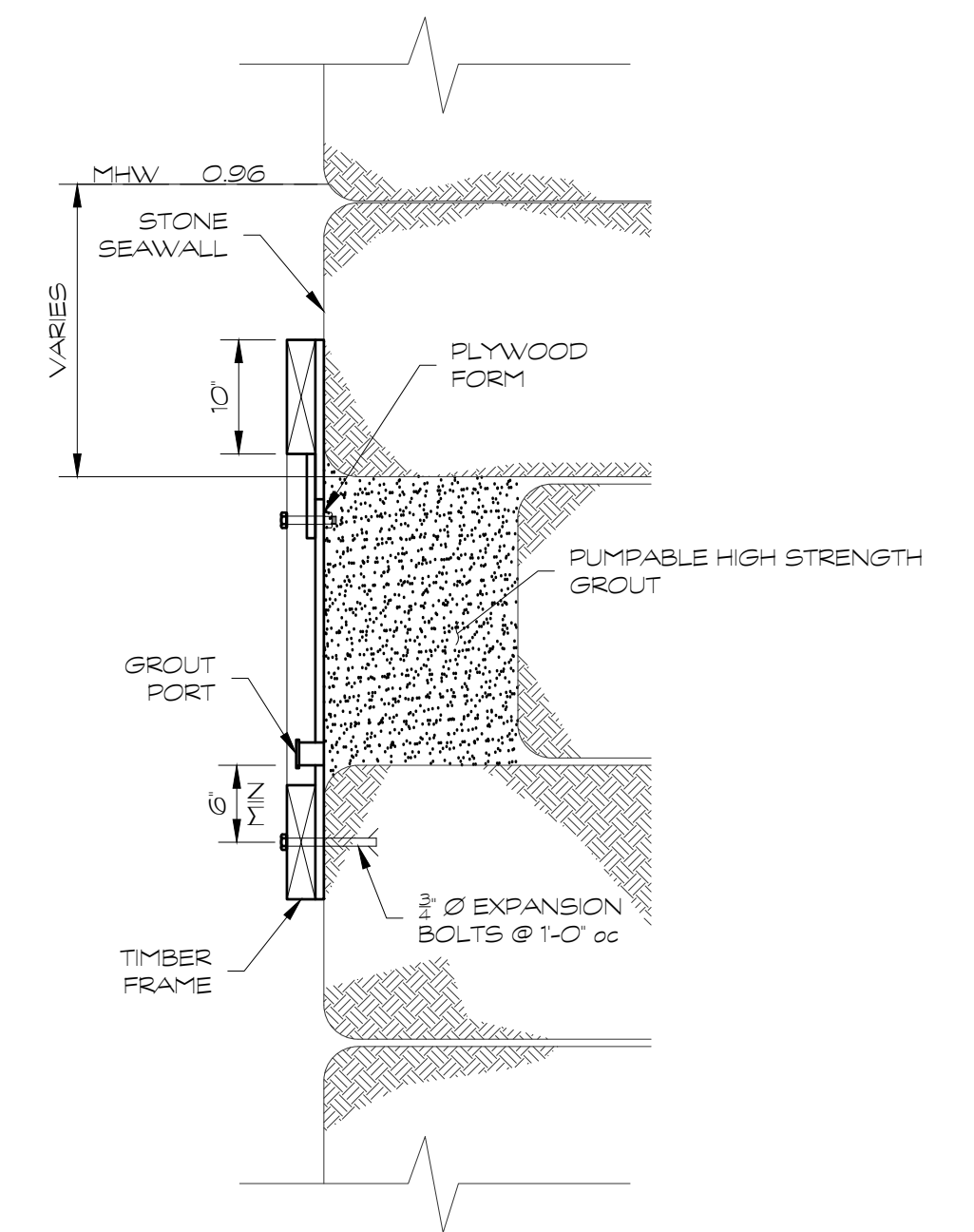




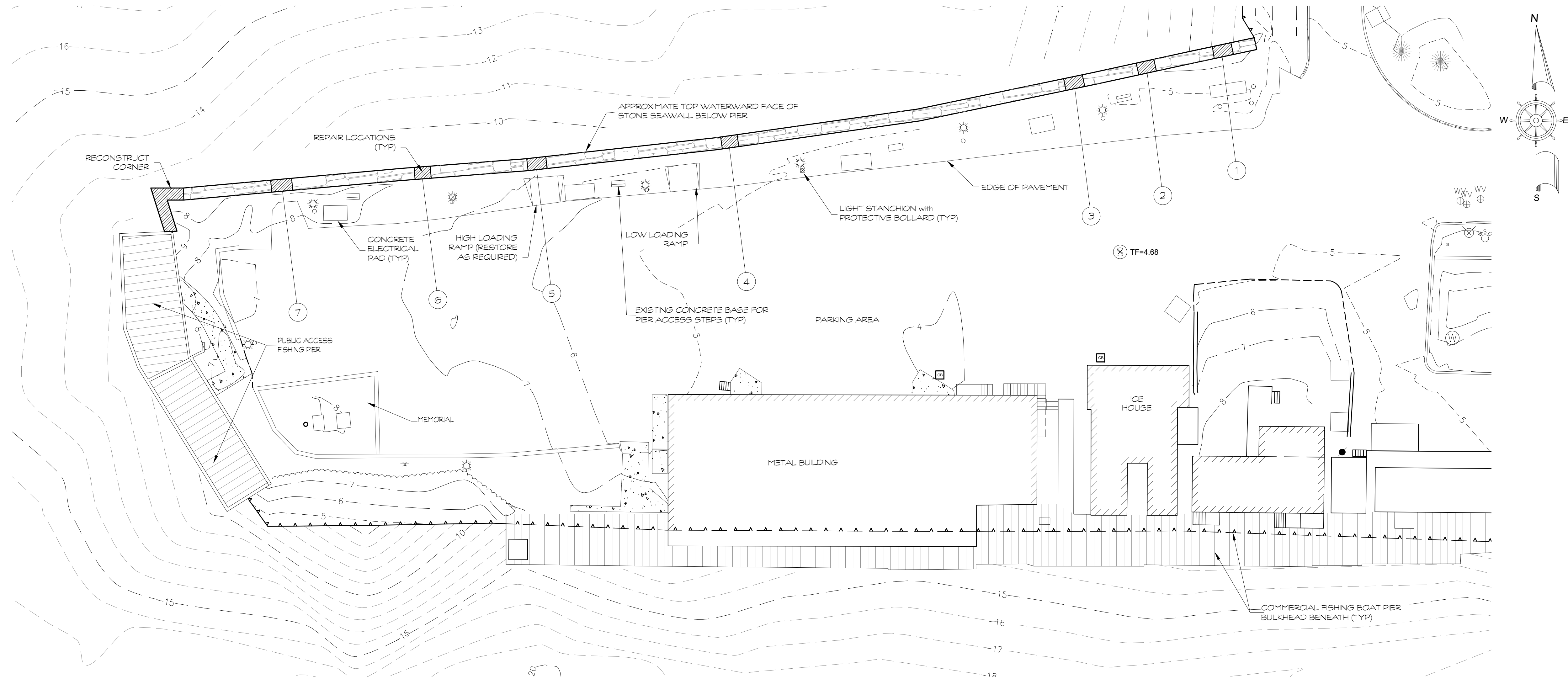
NOTES:
1. VOID SIZES ARE APPROXIMATES & IRREGULAR IN SHAPE
2. OPENINGS LESS THAN 6' ARE NOT SHOWN

SEAWALL ELEVATION LOOKING SOUTH

GRAPHIC SCALE 1" = 20'
20 10 0 20

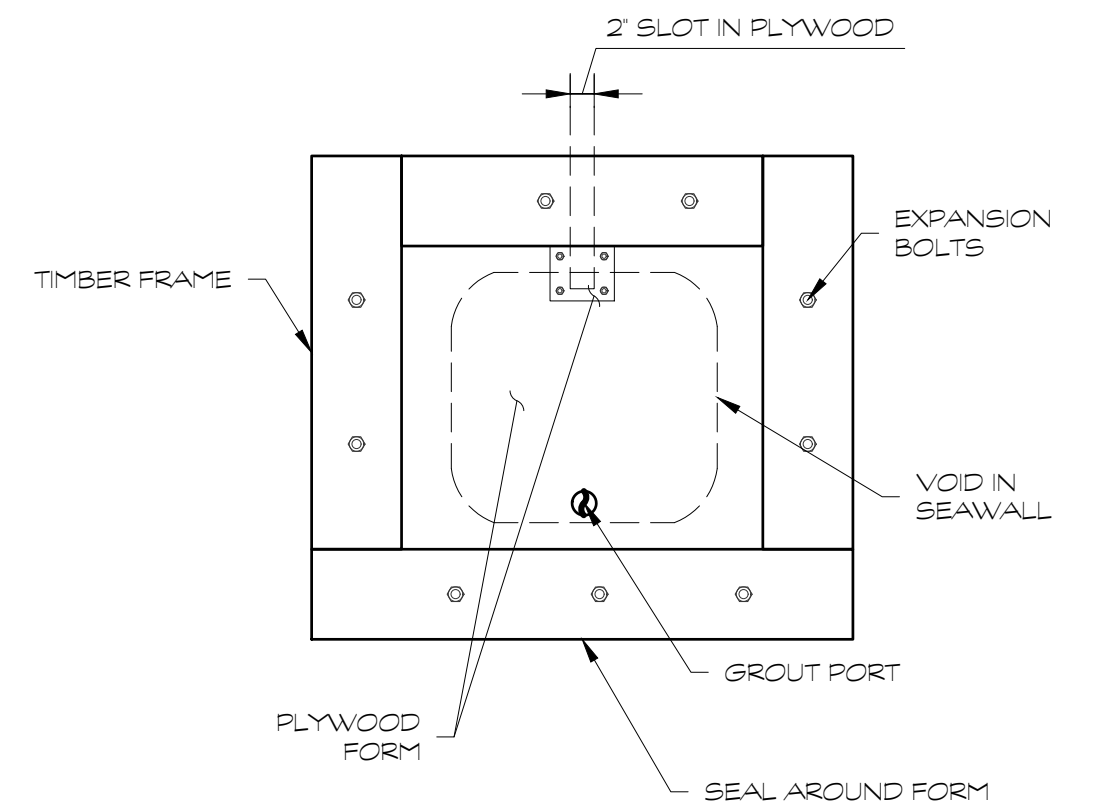


SECTION



EXCAVATION PLAN

GRAPHIC SCALE 1" = 20'
20 10 0 20



FRONT VIEW

SEAWALL REPAIR DETAIL

GRAPHIC SCALE 3/4" = 1'
3/4 3/8 0 3/4

NOTES:
1. DETAIL IS CONCEPT ONLY. VOIDS VARY IN SIZE. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF FORMWORK.
2. UPON COMPLETION OF REPAIR, ALL FORMWORK AND HARDWARE SHALL BE REMOVED.
3. CONTRACTOR SHALL INCLUDE IN HIS SCOPE AN UNDERWATER INSPECTION WITH THE ENGINEER TO REVIEW THE AS-BUILT CONDITION OF THE REPAIR WORK.

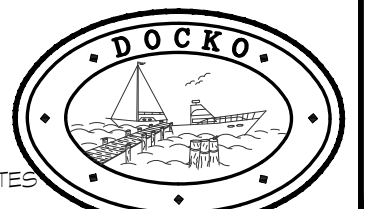
ALL BATHYMETRY IS IN MLLWD
ALL LAND CONTOURS SPOT AND OTHER SPECIFIED ELEVATIONS ARE IN NAVD-88

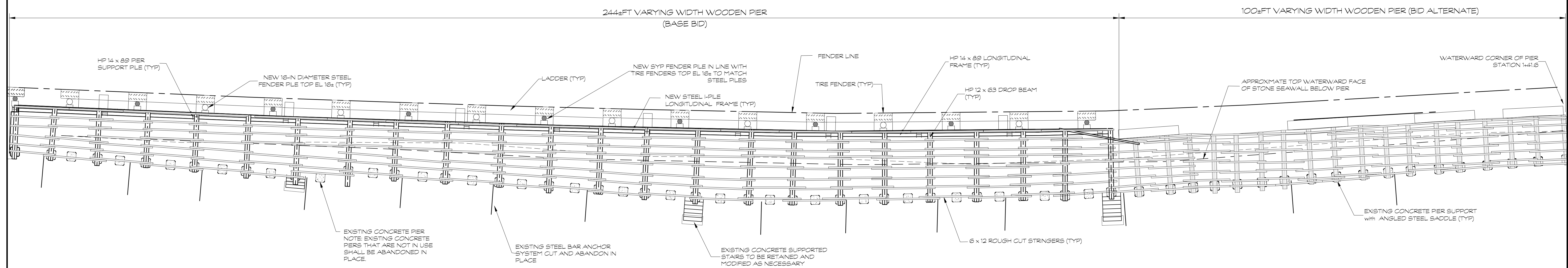
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SEAWALL REPAIR PLAN
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025

PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

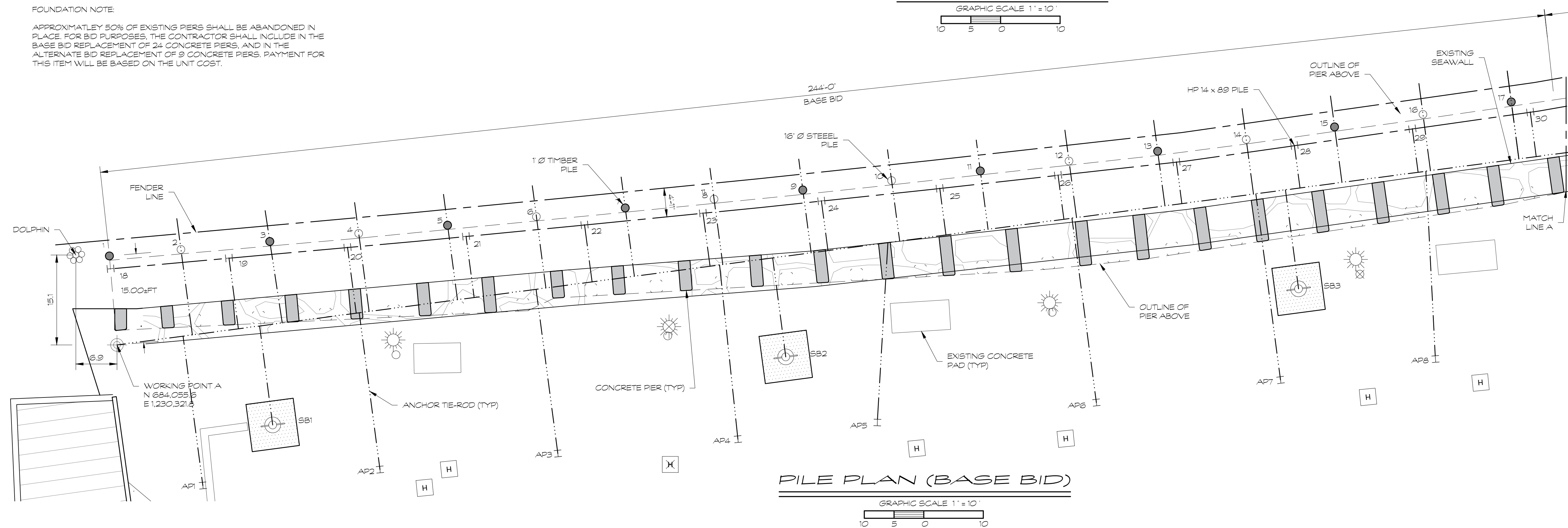
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DATE
SHEET 10
PREPARED BY:
DOCKO
SOUND ENGINEERING ASSOCIATES
STONINGTON, CT 06355
860 572-8939
EMAIL: office@docko.com
DWS 24-02-3325



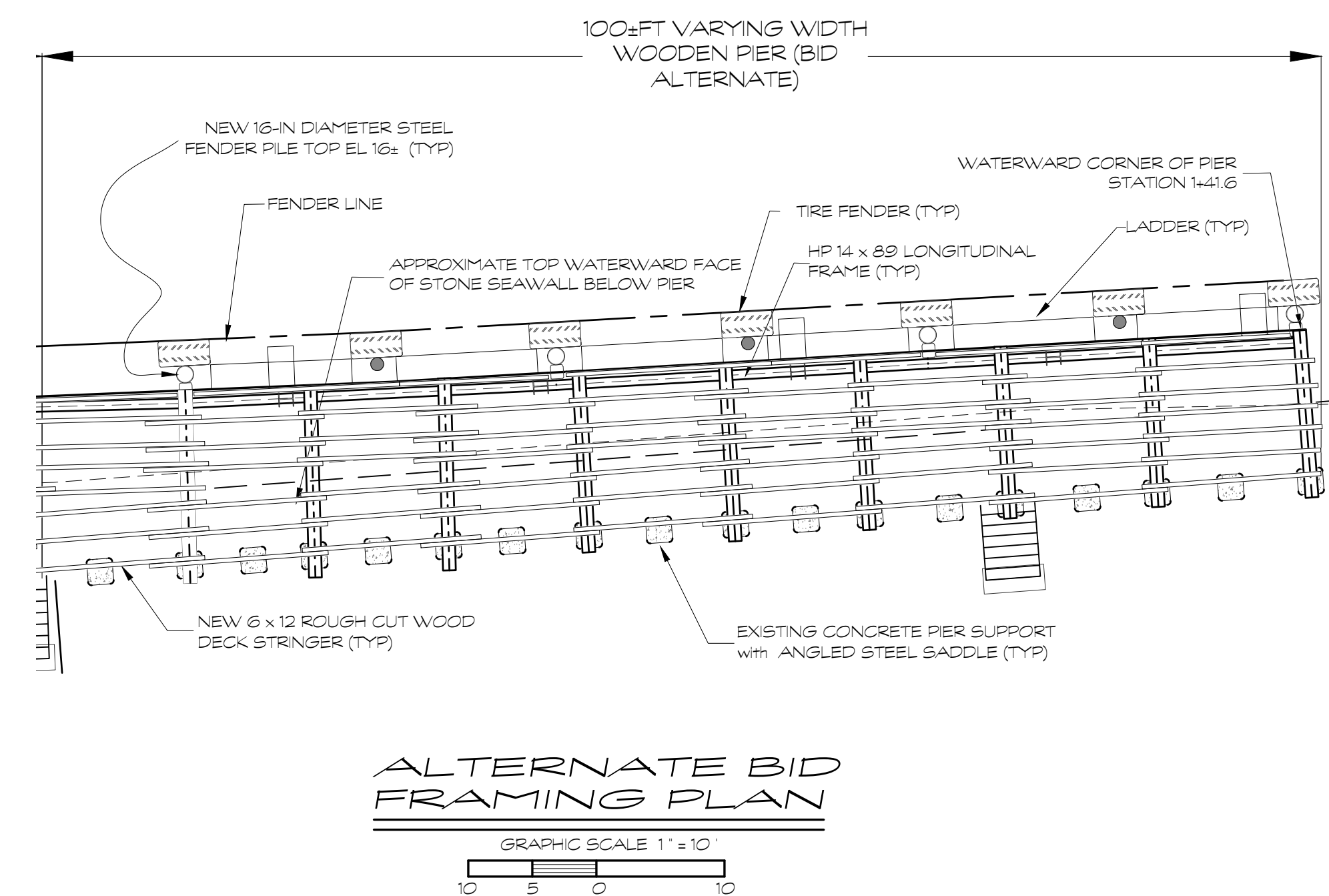
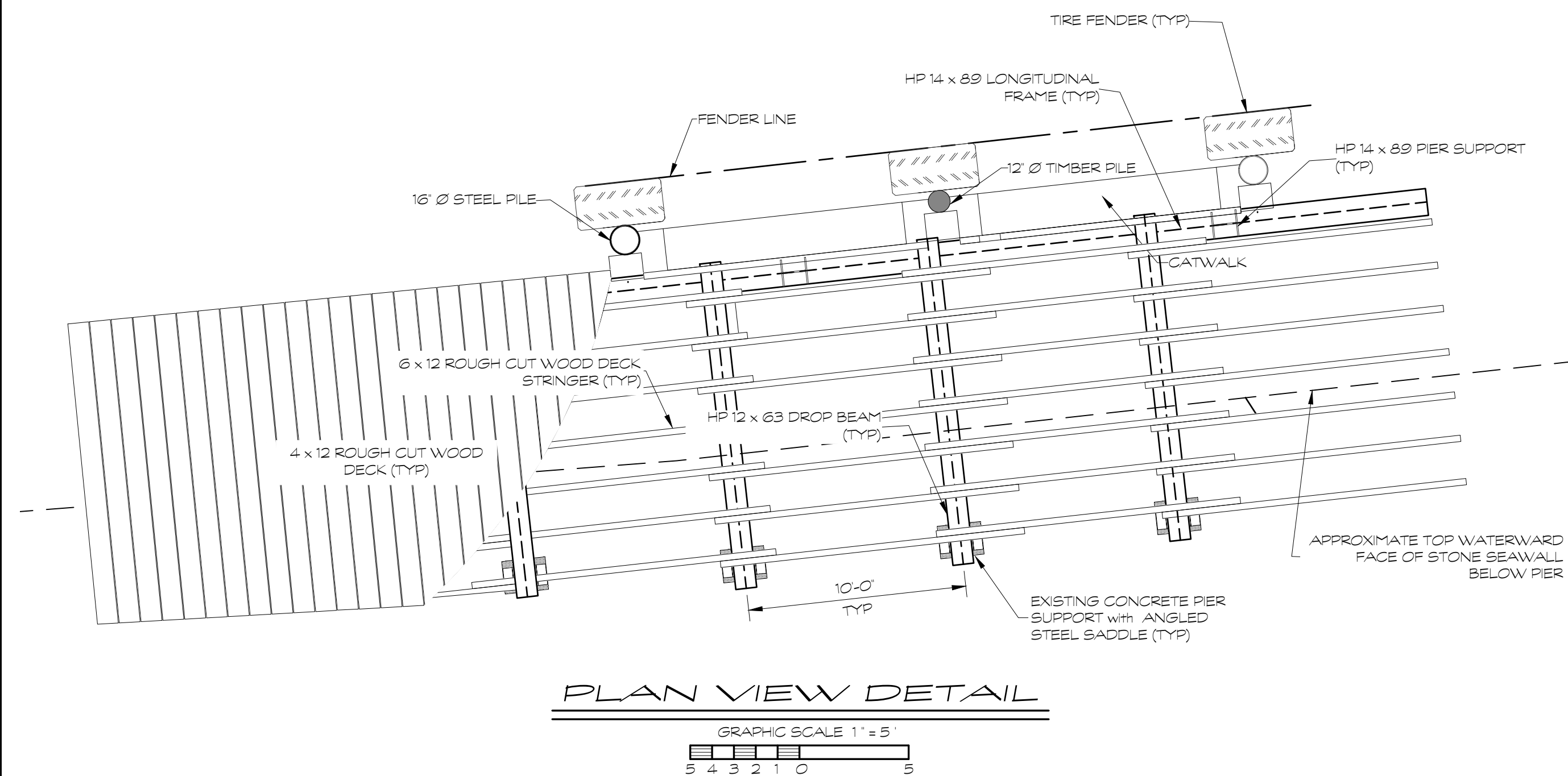


FOUNDATION NOTE:

APPROXIMATELY 50% OF EXISTING PIERS SHALL BE ABANDONED IN PLACE. FOR BID PURPOSES, THE CONTRACTOR SHALL INCLUDE IN THE BASE BID REPLACEMENT OF 24 CONCRETE PIERS, AND IN THE ALTERNATE BID REPLACEMENT OF 9 CONCRETE PIERS. PAYMENT FOR THIS ITEM WILL BE BASED ON THE UNIT COST.



Pile Schedule (B&B BC)			
PILE NUMBER	PILE TYPE	DISTANCE FROM MAINER LINE N SOUTH TO NORTH (FT)	DISTANCE FROM MAINER LINE N WEST TO EAST (FT)
1	12 IN Ø TIMBER PILE	3.0	0
2	16 IN Ø STEEL PILE	4.5	5.8
3	12 IN Ø TIMBER PILE	13.8	28.0
4	16 IN Ø STEEL PILE	13.2	43.7
5	12 IN Ø TIMBER PILE	12.0	51.7
6	16 IN Ø STEEL PILE	12.1	72.7
7	12 IN Ø TIMBER PILE	11.0	81.7
8	16 IN Ø STEEL PILE	1.1	102.7
9	12 IN Ø TIMBER PILE	10.6	111.7
10	16 IN Ø STEEL PILE	10.2	132.7
11	12 IN Ø TIMBER PILE	8.9	141.7
12	16 IN Ø STEEL PILE	8.6	162.7
13	12 IN Ø TIMBER PILE	8.3	171.7
14	16 IN Ø STEEL PILE	8.3	192.7
15	12 IN Ø TIMBER PILE	8.4	201.7
16	16 IN Ø STEEL PILE	8.9	222.7
17	12 IN Ø TIMBER PILE	8.7	231.7
18	HP 14 x .60	12.8	0
19	HP 14 x .60	0.0	20.8
20	HP 14 x .60	1.2	40.8
21	HP 14 x .60	10.6	60.8
22	HP 14 x .60	8.7	80.8
23	HP 14 x .60	8.0	100.8
24	HP 14 x .60	8.4	120.8
25	HP 14 x .60	1.9	140.8
26	HP 14 x .60	1.5	160.8
27	HP 14 x .60	1.1	180.8
28	HP 14 x .60	1.2	200.8
29	HP 14 x .60	1.4	220.8
30	HP 14 x .60	1.6	240.8
589	SCAFFOLD PILE	16.8	24.2
590	SCAFFOLD PILE	16.8	71.2
591	SCAFFOLD PILE	16.8	138.1
A01	HP 14 x .60	25.3	1.2
A02	HP 14 x .60	26.8	41.1
A03	HP 14 x .60	21.8	71.1
A04	HP 14 x .60	28.1	101.4
A05	HP 14 x .60	23.7	121.8
A06	HP 14 x .60	31.2	151.9
A07	HP 14 x .60	31.3	183.1
A08	HP 14 x .60	31.0	221.6



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PILE AND FRAMING PLANS
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025

PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

APPROVED

DATE _____

SHEET 11

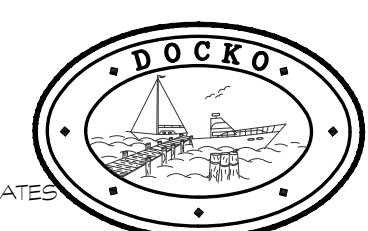
UNIT 1

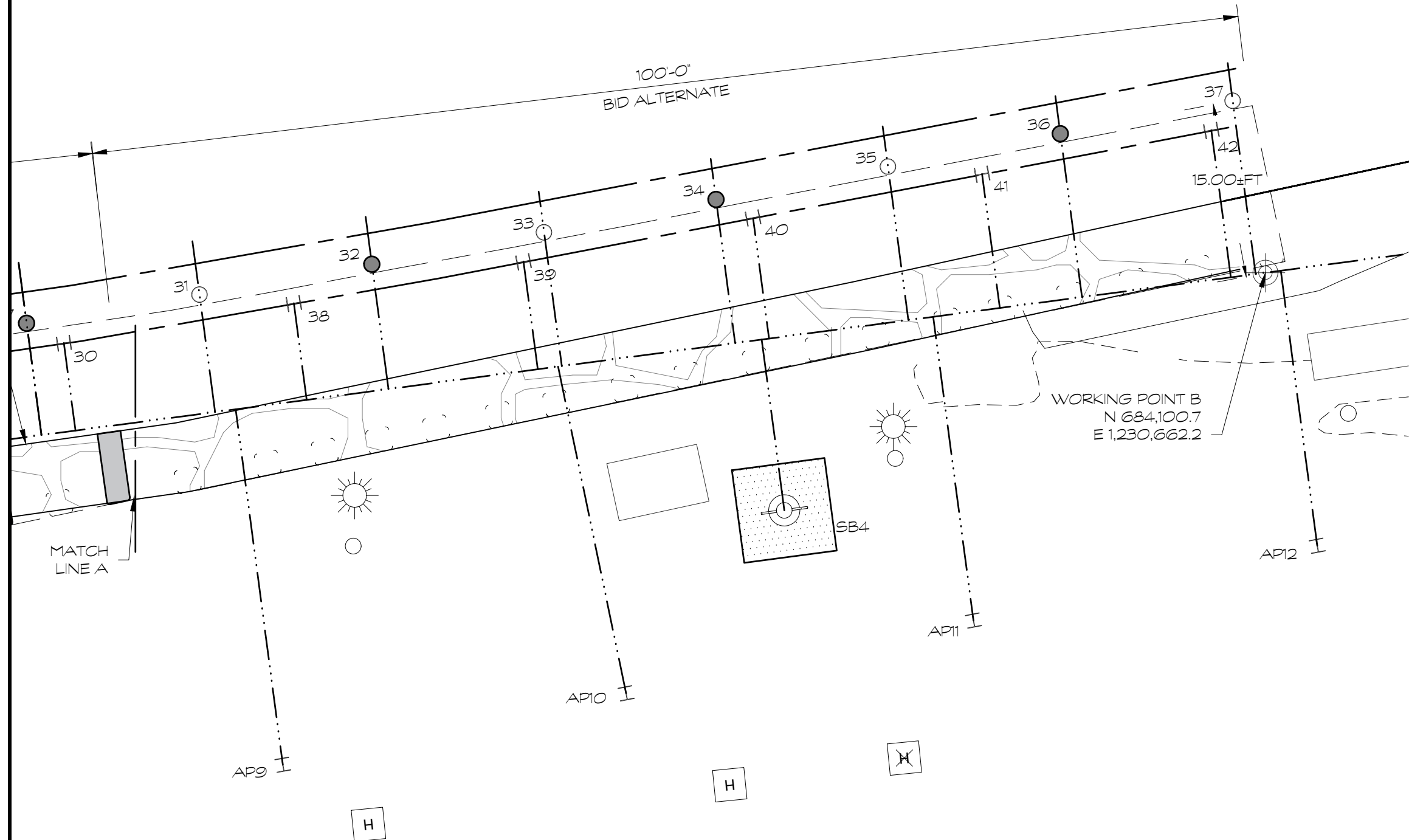
PREPARED BY:

DOCKO

SOUND ENGINEERING ASSOCIATES
MYSTIC, CT 06355

DWG 24-02-3325

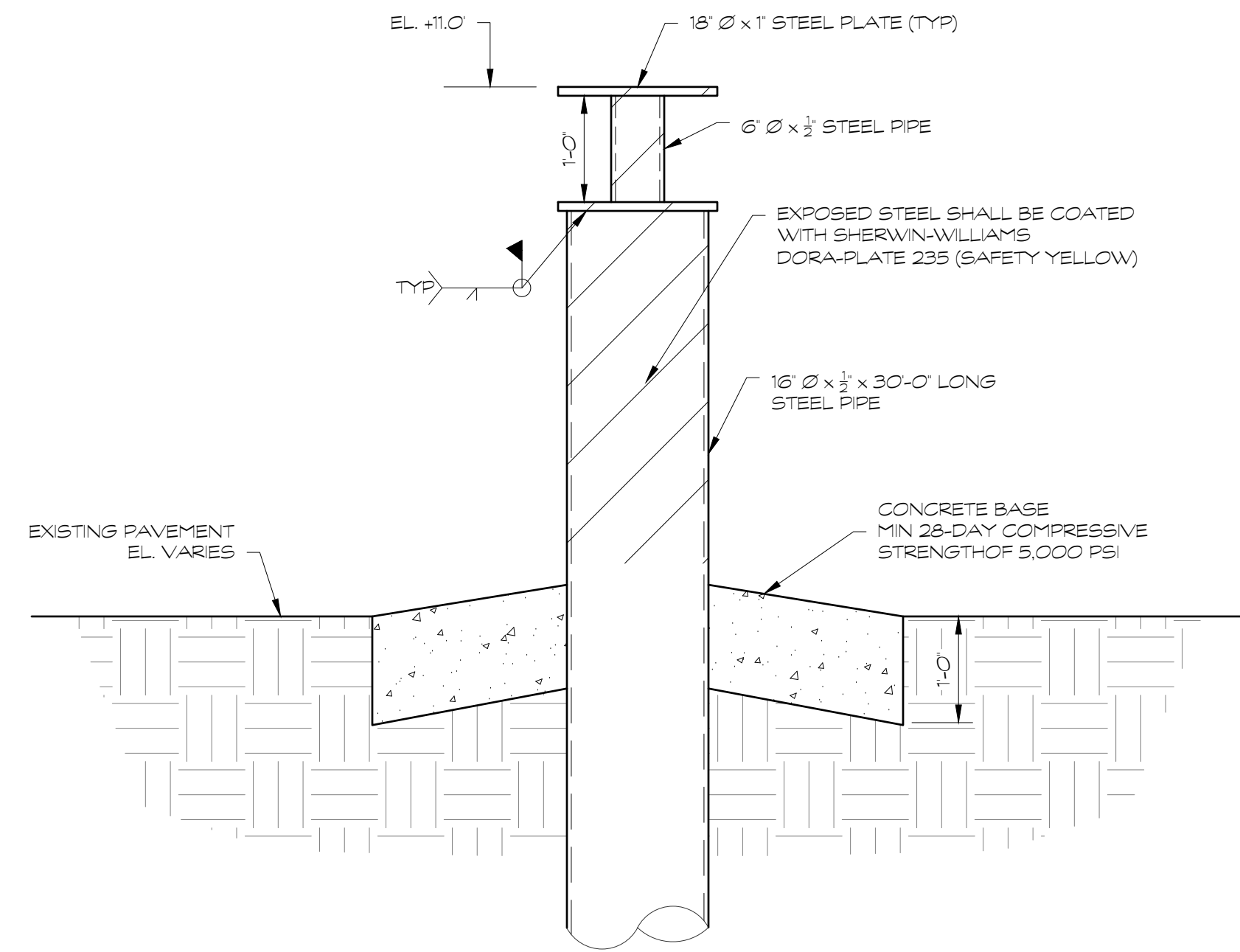




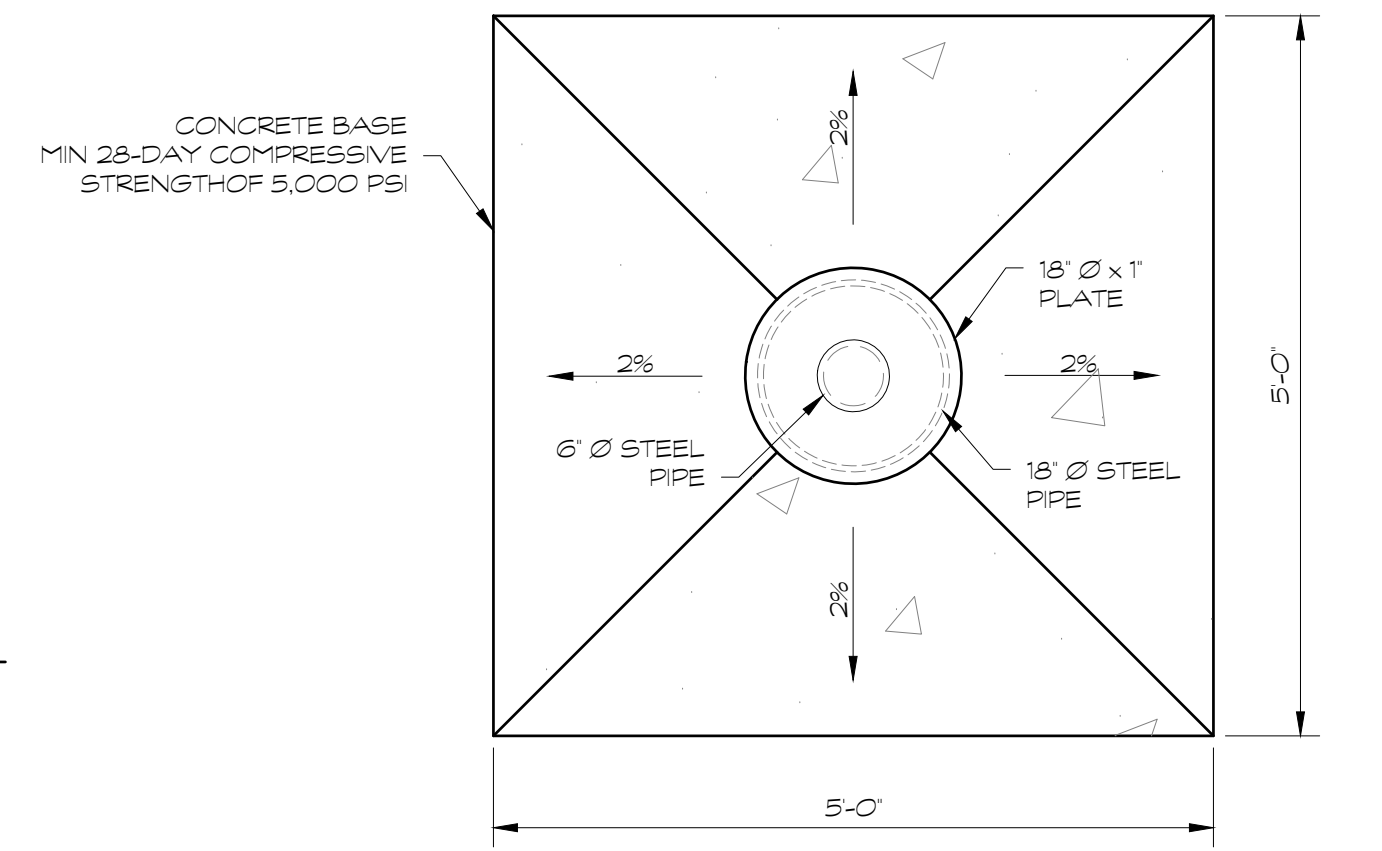
PILE PLAN (BID ALTERNATE)



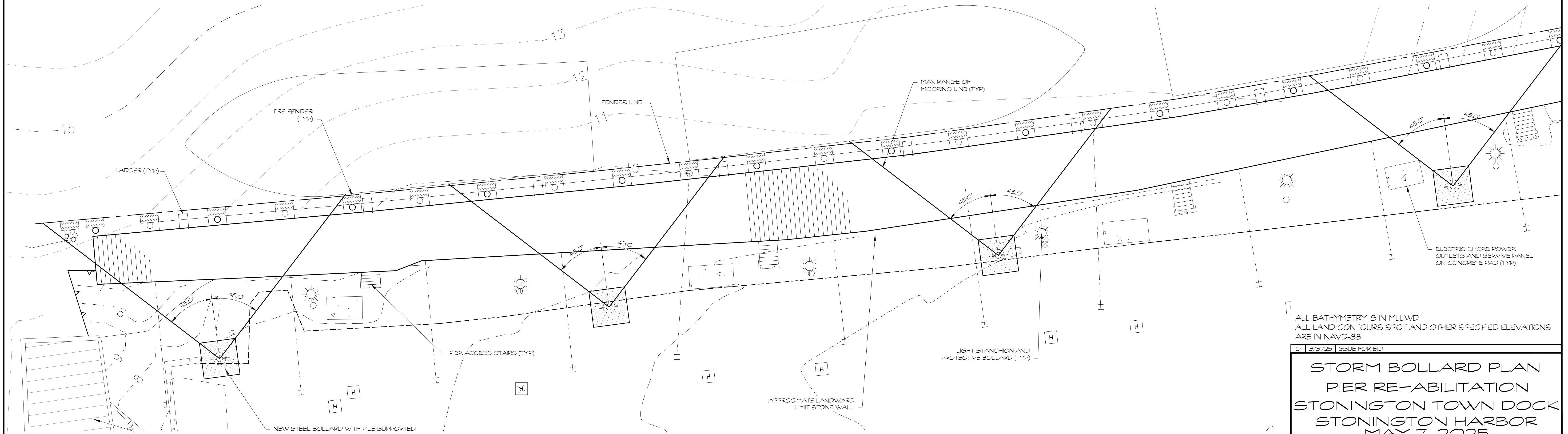
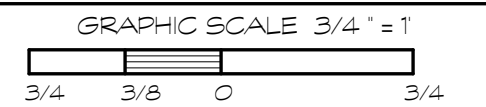
PILE SCHEDULE (BID ALTERNATE)			
PILE NUMBER	PILE TYPE	DISTANCE FROM MARKER LINE IN SOUTH TO NORTH (FT)	DISTANCE FROM MARKER LINE IN WEST TO EAST (FT)
31	16 N 8 STEEL PILE	10.4	267.2
32	12 N 8 STEEL PILE	10.8	267.2
33	16 N 8 STEEL PILE	11.8	267.2
34	12 N 8 STEEL PILE	12.4	267.6
35	16 N 8 STEEL PILE	13.3	322.6
36	12 N 8 STEEL PILE	14.1	327.6
37	16 N 8 STEEL PILE	15.0	342.6
38	HP 14 x 84	8.4	280.6
39	HP 14 x 84	9.3	280.6
40	HP 14 x 84	10.4	300.6
41	HP 14 x 84	11.6	322.6
42	HP 14 x 84	12.7	340.6
384	BOLLARD PILE	14.8	350
AP9	HP 14 x 80	30.7	354.5
AP10	HP 14 x 80	28.6	282.3
AP11	HP 14 x 80	26.3	314.8
AP12	HP 14 x 80	23.8	344.8



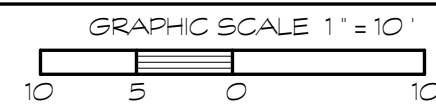
TYPICAL PROPOSED SECTION



REMOTE BOLLARD DETAIL



STORM BOLLARD MOORING PLAN



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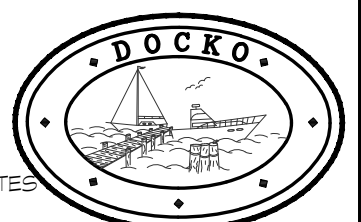
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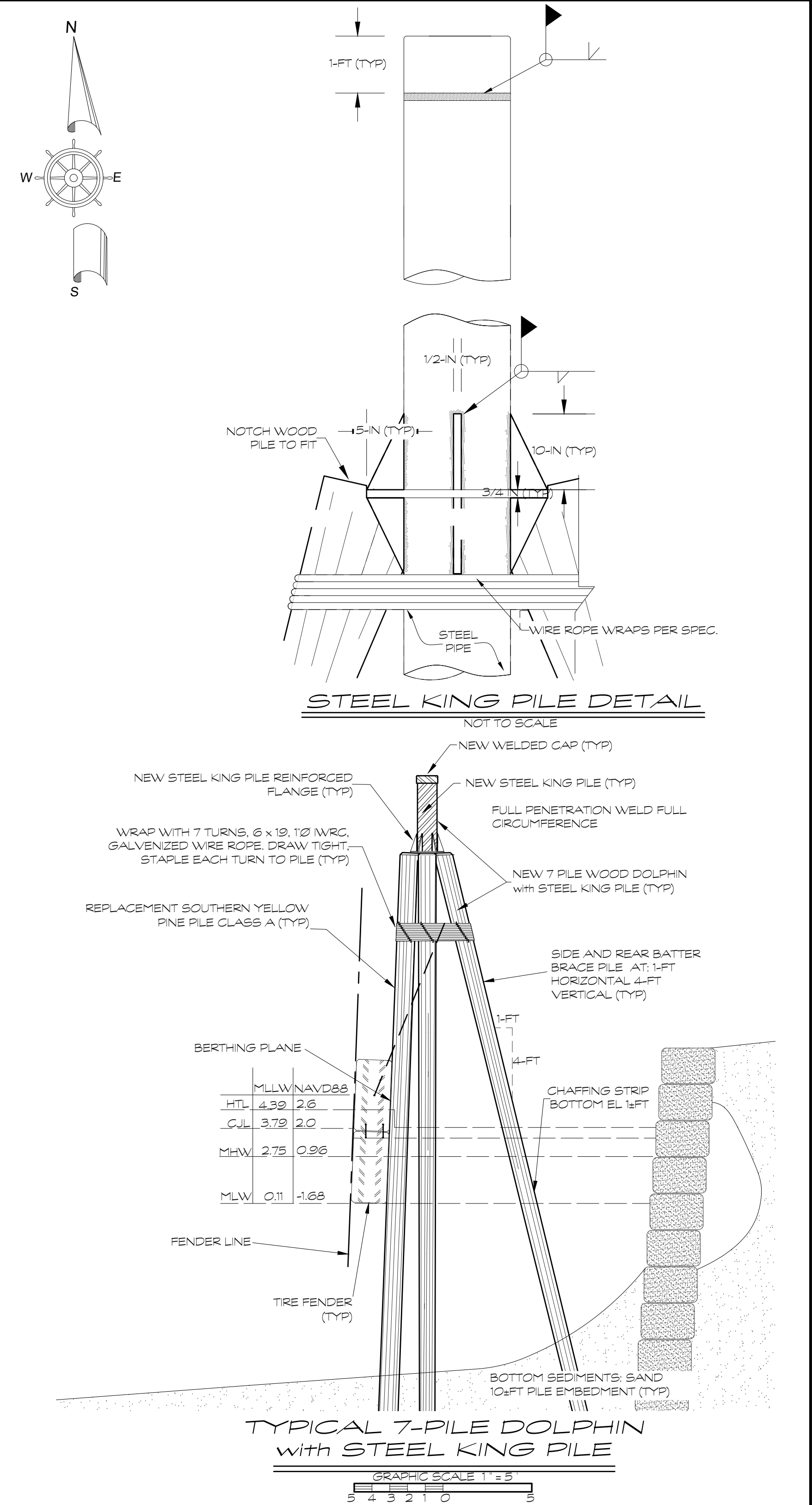
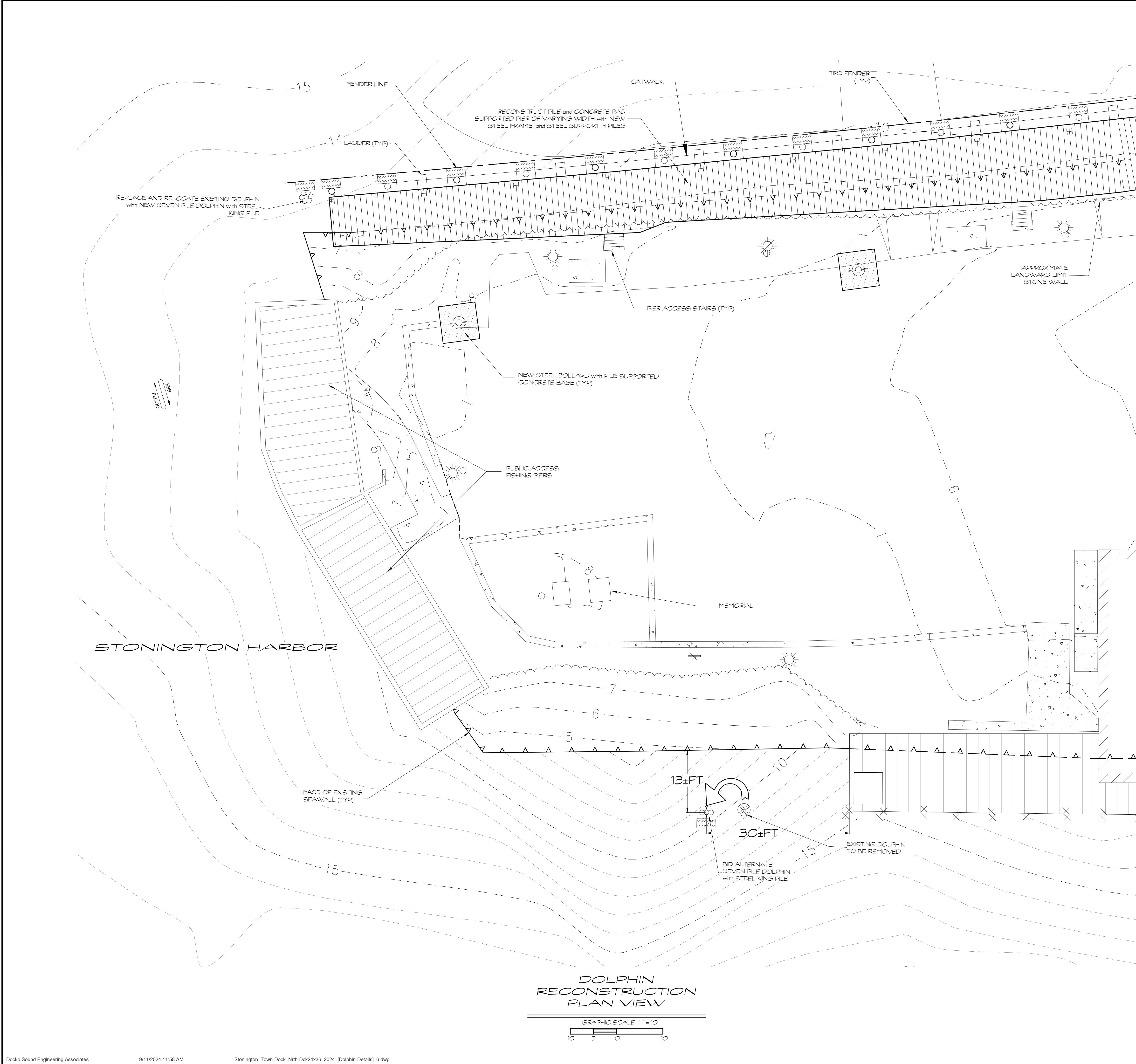
STORM BOLLARD PLAN
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025

PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

APPROVED
DATE

SHEET 12
PREPARED BY:
DOCKO
SOUND ENGINEERING ASSOCIATES
WYTHIC, CT 06355
860 572-5939
EMAIL: office@docko.com





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**BID ALTERNATE PLAN
PIER REHABILITATION
STONINGTON TOWN DOCK
STONINGTON HARBOR
MAY 7, 2025**

PROPERTY OF
TOWN OF STONINGTON
CONNECTICUT

APPROVED	DATE
SHEET 13	
PREPARED BY: DOCKO SOUND ENGINEERING ASSOCIATES 475 TIGOT 06355 860 972-4939 EMAIL: office@docko.com	