

**RIGIS**

**SITE LOCATION MAP**

SCALE: 1"=2,000'



8 BLACKSTONE VALLEY PLACE  
LINCOLN, RI 02865  
(401) 334-4100

10 LINCOLN ROAD, SUITE 210  
FOXBORO, MA 02035  
(508) 543-1755

PARE PROJECT No. 23153.00

DECEMBER 2023

**FIGURE 1**

RIDEM GALILEE PIER F  
SITE LOCATION  
NARRAGANSETT, RI

**RECEIVED**

**1/18/2024**

**COASTAL RESOURCES  
MANAGEMENT COUNCIL**

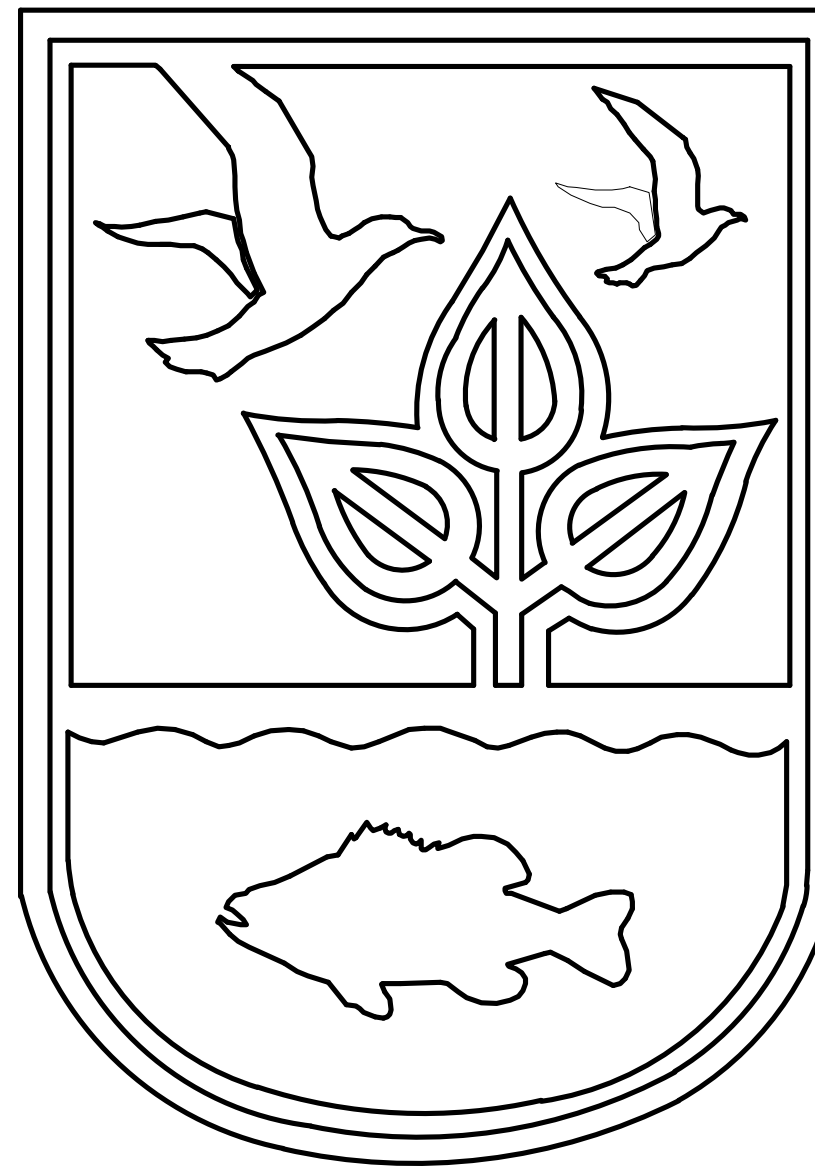


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# STATE OF RHODE ISLAND

D ■ E ■ M



Locus Map

Scale: 1"=500'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
DIVISION OF PLANNING AND DEVELOPMENT

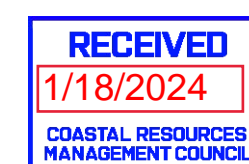
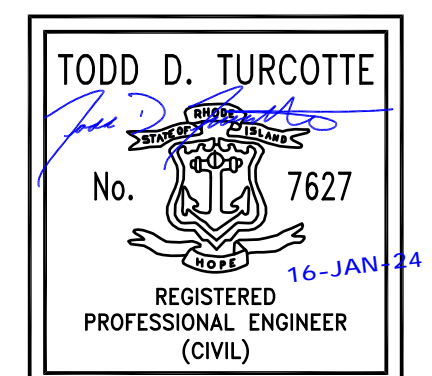
# PIER F REMOVAL AND REPLACEMENT PORT OF GALILEE: PHASE III

NARRAGANSETT, RHODE ISLAND  
Pare Project No. 23153.00



PARE CORPORATION  
ENGINEERS - SCIENTISTS - PLANNERS  
10 LINCOLN ROAD, SUITE 210  
FOXBORO, MA 02035  
508-543-1755

JANUARY, 2023





**GENERAL NOTES:**

- FOR THE PURPOSE OF THIS PROJECT  
OWNER - DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, STATE OF RHODE ISLAND  
235 PROMENADE STREET, FL. 3  
PROVIDENCE, RI 02908  
ENGINEER - PARE CORPORATION  
10 LINCOLN ROAD, SUITE 210  
FOXBORO, MA 02035  
CONTACT - TODD D TURCOTTE, PE
- ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE RHODE ISLAND STATE BUILDING CODE, ALL FEDERAL AND MUNICIPAL BUILDING CODES, AND THE SPECIFICATIONS INCLUDED IN THIS CONTRACT. THESE PLANS ARE INCOMPLETE UNLESS ACCOMPANIED BY THE SPECIFICATIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE PROJECT SITE IS A WORKING COMMERCIAL FISHING PORT WITH LIMITED SHORESIDE ACCESS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO REDUCE THE IMPACT TO FISHING OPERATIONS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SAFETY OF WORK.
- THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH THE LEASE TENANTS THAT WILL BE IMPACTED BY DEMOLITION AND CONSTRUCTION, INCLUDING TEMPORARY REMOVAL AND REPLACEMENT OF ANY EQUIPMENT OR MATERIALS OWNED BY THE TENANTS THAT WILL BE AFFECTED BY THE WORK. (OWNER WILL BE NOTIFIED OF ANY WORK REQUIRED BY LEASE HOLDER IN ORDER FOR CONTRACTOR TO PERFORM WORK)
- HORIZONTAL DATUM: RHODE ISLAND STATE PLANE - NAD83  
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM - NAVD88
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. PLANS SHALL NOT BE SCALED FOR DIMENSIONS.
- NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF SIMILAR NATURE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL PROJECT DEMOLITION AND EXCESS MATERIAL IN ACCORDANCE WITH RHODE ISLAND, LOCAL, AND FEDERAL LAWS.
- THE CONTRACTOR SHALL PROTECT ALL ADJACENT STRUCTURES AND UTILITIES.
- THE CONTRACTOR SHALL FOLLOW ALL OSHA, FEDERAL, STATE, AND LOCAL STANDARDS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SITE SAFETY PROCEDURES AND PRACTICES REGARDLESS OF THE PRESENCE OF THE OWNER OR ENGINEER.
- THE CONTRACTOR WILL SUBMIT A CONSTRUCTION SCHEDULE TO THE OWNER. THE CONTRACTOR WILL UPDATE SCHEDULE AS NEEDED THROUGHOUT THE COURSE OF WORK.
- THE CONTRACTOR SHALL STAGE ALL EQUIPMENT IN THE DESIGNATED STAGING AREA. ALL GREASING AND REFUELING ACTIVITIES SHALL OCCUR IN THE STAGING AREA. ALL NECESSARY MEASURES SHALL BE TAKEN TO PREVENT BY ANY METHOD, OIL, CONSTRUCTION DEBRIS, STOCKPILED MATERIALS, AND OTHER MATERIALS ON THE SITE, FROM ENTERING THE WATERWAY. STAGING/LAYDOWN AREAS SHALL BE RESTORED BY THE CONTRACTOR TO THE EXISTING CONDITION. IN ADDITION, THE CONTRACTOR SHALL REPLACE ALL DAMAGED MATERIALS AS A RESULT OF HIS OPERATIONS, TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ALL CONSTRUCTION DEBRIS OR WASTE FROM FALLING INTO THE WATER. ANY DEBRIS FALLING INTO THE WATER SHALL BE RECOVERED AND PROPERLY DISPOSED OF.
- THE CONTRACTOR SHALL MAINTAIN A SECURE SITE AND PROVIDE APPROPRIATE SAFETY MEASURES TO PREVENT ACCIDENTS. THE SAFETY MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO SIGNAGE, BARRICADES, FENCES, FLASHING WARNING LIGHTS, AND POLICING IF NECESSARY.
- UPON COMPLETION OF THE PROJECT, CONTRACTOR DESIGN BUILDER WILL PROVIDE TWO AS-BUILT PLAN SETS, ONE ELECTRONIC PDF, AND ONE HARD COPY, TO THE OWNER DEPICTING ANY FIELD CHANGES OF DIMENSION OR DETAIL, LOCATION OF UNDERGROUND STRUCTURES AND/OR UTILITIES, CONSTRUCTION DEVIATIONS, CHANGES DUE TO FIELD OR CHANGE ORDER, AND DETAILS NOT ON THE ORIGINAL DRAWINGS.
- ANY ITEMS REFERENCED AS BEING ON "HOLD" WILL BE PRICED AND BID AS SHOWN, HOWEVER, DETAILING, FABRICATION OR CONSTRUCTION WILL NOT BEGIN UNTIL THE HOLD NOTE IS REMOVED.

**STRUCTURAL TIMBER NOTES**

- STRUCTURAL DESIGN IS BASED UPON THE USE OF #2 SOUTHERN YELLOW PINE, WITH A MINIMUM BENDING CAPACITY OF:  
F<sub>b</sub>=1200 PSI FOR 2-4 INCH MEMBERS  
F<sub>b</sub>=1000 PSI FOR 5-6 INCH MEMBERS  
F<sub>b</sub>=800 PSI FOR 12 INCH MEMBERS
- ALL RESIDENTIAL CONSTRUCTION (OCCUPANCIES R2 AND R3) IS TO CONFORM TO SBCCI SSTD 10-97, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR ARCHITECT.
- ALL NAILING REQUIREMENTS SHALL BE AS PER THE STANDARD BUILDING CODE TABLE 2306.1, OR SBCCI SSTD 10-97, APPENDIX E., UNLESS NOTED DIFFERENTLY ON THE DRAWINGS. NAILING REQUIREMENTS ARE IN ADDITION TO THE REQUIREMENTS OF SPECIFIED TIMBER CONNECTORS
- ALL NAILING REQUIREMENTS LISTED ARE BASED UPON THE USE OF COMMON WIRE NAILS (NOT SINKERS, BOX, ETC.). ALTERNATIVE NAIL TYPES OF EQUIVALENT DIAMETERS MAY BE SUBSTITUTED, WITH PRIOR APPROVAL OF THE ENGINEER OF RECORD.
- ALL BOLTS, NUTS, WASHERS, LAGS, SCREWS, AND DRIFT PINS SHALL BE MEDIUM CARBON STEEL WITH GALVANIZED COATING. SIZE AND TYPE TO SUIT APPLICATION IN CONFORMANCE WITH ASTM A153.
- ALL TIMBER SHALL BE ROUGH GRADED UNLESS OTHERWISE NOTED.
- BRUSH OR ROLLER APPLY TWO COATS OF WOOD PRESERVATIVE TO ANY SURFACE WHICH HAS BEEN FIELD CUT, DRESSED, OR DRILLED
- TIMBER DESIGNATED AS TREATED SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWWA STANDARD C2, SERVICE CONDITION UC5A-B. THE PRESSURE TREATMENT PER COMPONENT IS AS FOLLOWS:  
A. SYP TIMBER PILES ..... 2.50 CCA  
B. 3 X 10 CROSS BRACING ..... 2.50 CCA  
C. 4 X 10 SPLIT CAPS ..... 0.80 CCA  
D. 6 X 10 STRINGERS ..... 0.80 CCA  
E. 4 X 10 STRINGERS ..... 0.80 CCA  
F. 10 X 12 FENDER CHOCKS ..... 0.80 CCA  
G. 3 X 10 TIMBER DECKING (S4S) .. 0.23 MCA

**SPILL PREVENTION AND CONTROL NOTES:**

- SPILLS AND LEAKS SHALL BE AVOIDED THROUGH FREQUENT INSPECTION OF EQUIPMENT AND MATERIAL STORAGE AREAS, AND SHALL BE REMEDIATED AND REPAIRED AS NECESSARY.
- HAZARDOUS MATERIAL STORAGE TO BE PLACED ONLY IN DESIGNATED AREAS. MATERIAL STORAGE AREAS SHALL BE ROUTINELY INSPECTED FOR LEAKY CONTAINERS, OPEN CONTAINERS, OR IMPROPER STORAGE TECHNIQUES THAT MAY LEAD TO SPILLS OR LEAKS.
- APPROPRIATE SPILL REMEDIATION PROCEDURES AND SUPPLIES SHALL BE READILY AVAILABLE ON-SITE. TOOLS AND SUPPLIES SHALL BE CLEARLY MARKED SO THAT ALL PERSONNEL CAN LOCATE AND ACCESS THESE SUPPLIES.
- SPILL REMEDIATION SHALL BE PERFORMED IMMEDIATELY. CONTRACTOR SHALL FOLLOW PROPER RESPONSE PROCEDURES IN ACCORDANCE WITH ANY APPLICABLE REGULATORY REQUIREMENTS.
- AT NO TIME SHALL SPILLS BE DIVERTED TOWARD STORM DRAINS OR TO THE WATERWAY.
- EQUIPMENT/VEHICLE FUELING AND REPAIR/MAINTENANCE OPERATIONS SHALL TAKE PLACE ONLY WITHIN DESIGNATED STAGING AREAS.
- THE EQUIPMENT OPERATOR SHALL FULLY MONITOR FUELING OPERATIONS TO EQUIPMENT AND VEHICLES AT ALL TIMES.
- ANY SPILLAGE SHALL BE IMMEDIATELY CLEANED WITH SPILL KITS KEPT ON SITE.
- IN THE CASE OF SMALL AMOUNTS OF SOIL CONTAMINATION, SUCH SOIL SHALL BE PLACED IN 55 GALLON DRUMS FOR DISPOSAL BY A LICENSED HAZARDOUS WASTE HAULER.
- IN THE CASE OF A LARGE AMOUNT OF SOIL CONTAMINATION OR DISCHARGE TO THE WATERWAY, RHODE ISLAND DEM AND APPLICABLE AGENCIES SHALL BE NOTIFIED AS REQUIRED. A HAZARDOUS WASTE REMEDIATION FIRM SHALL BE CONTRACTED TO REMOVE AND DISPOSE OF THE CONTAMINATED MATERIAL OR CONTAIN THE SPILL AT NO ADDITIONAL COST.

**CONCRETE NOTES (ALTERNATIVE B):**

- CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE RHODE ISLAND STATE BUILDING CODE.
- CONCRETE SHALL BE NORMAL WEIGHT, WITH TYPE II CEMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 5,000 PSI ALL CONCRETE DESIGN MIXES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- CONCRETE SHALL CROW AT THE CENTER OF THE PIER AND CARRY AN APPROXIMATE 1.5% GRADE TO THE EDGES.
- ALL CONCRETE SHALL BE AIR-ENTRAINED WITH AN AIR CONTENT OF 6% +/- 1%.
- ALL EXPOSED EDGES SHALL BE CHAMFERED 1" UNLESS NOTED OTHERWISE.
- WHEN CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE INTERFACE SHALL BE CLEAN, FREE OF LAITANCE AND INTENTIONALLY ROUGHENED TO FULL AMPLITUDE OF APPROXIMATELY 1/4 INCH.
- CONCRETE WASHOUT OPERATIONS TO OR WITHIN THE WATERWAY MUST NOT TAKE PLACE AT ANY TIME.
- CONCRETE TO BE REINFORCED WITH DL STEEL MESH.

**GENERAL SCOPE OF WORK**

- PRIOR TO PROJECT COMMENCEMENT, DESIGN BUILDER AND OWNER WILL NOTIFY AND COORDINATE WITH ALL STATE, LOCAL AND FEDERAL AUTHORITIES AS REQUIRED.
- MOBILIZE CONSTRUCTION EQUIPMENT AND PERSONNEL TO THE SITE. UTILIZATION OF OFFSITE STAGING AREA WILL BE COORDINATED WITH THE OWNER AS APPROPRIATE AND AS NECESSARY. INSTALL EROSION CONTROLS.
- PREVIOUS PIER HAS BEEN REMOVE. IN PLACE PILED TO BE CUT AT MUDLINE WHEN NECESSARY.
- LAYOUT THE PRELIMINARY ALIGNMENT OF PILES SUCH THAT THE CENTER OF PIER IS ALIGNED WITH THE CENTER OF THE GARAGE DOOR FOR THE EXISTING NARRAGANSETT CRAB COMPANY BUILDING.
- DRIVE NEW TIMBER SUPPORT PILES TO THE SPECIFIED DEPTH AS SEEN ON SHEET 4.1.
- INSTALL L ANGLE ON EXISTING CONCRETE BULKHEAD AND EXTEND THE PIER TO THE EXISTING FFE OF THE NARRAGANSETT CRAB COMPANY BUILDING.
- INSTALL NEW TIMBER PIER FRAMING AS INDICATED ON THE DRAWINGS.
- ALTERNATIVE A: INSTALL PLYWOOD ON TOP OF EXISTING STRINGERS AND PLACE FORMWORK FOR THE 5 INCH CONCRETE SLAB.
- ALTERNATIVE B: INSTALL 3 X 12 INCH DECKING ON TOP OF INSTALLED STRINGERS.
- INSTALL FENDER SYSTEM AND END PILE CLUSTERS.
- DEMobilize AND RETURN DISTURBED AREAS OF THE SITE TO PRE-CONSTRUCTION CONDITIONS.

**EROSION CONTROL NOTES:**

- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL PREVENT SEDIMENT FROM ENTERING THE WATERWAY VIA DISCHARGES THROUGH ANY DRAINAGE STRUCTURES OR RUNOFF FROM WITHIN THE LIMITS OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RESTORING AND REPAIRING ALL DAMAGE AS A RESULT OF UNAUTHORIZED WORK OR DISCHARGES AT NO ADDITIONAL COST TO THE OWNER.
- SOIL STOCKPILES SHALL BE A MINIMUM OF 2- FEET FROM THE EDGE OF THE BULKHEAD TO LIMIT RUNOFF INTO THE HARBOR.
- DISCHARGE OF TURBID WATER TO THE WATERWAY IS PROHIBITED.

**LEGEND**

EXISTING		NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY	
BUILDING		▲/▲	NAIL FOUND/SET
ASPHALT		●/●	DRILL HOLE FOUND/SET
AP	ASSESSOR'S PLAT	●/●	IRON ROD/PIPE FOUND/SET
N/F	NOW OR FORMERLY	■/■	BOUND FOUND/SET
(D)	DEED	▲	SIGN
(M)	MEASURED	●	BOLLARD
(C)	CALCULATED	⊙ CB	SOIL EVALUATION
(CA)	CHORD ANGLE	⊙ DCB	CATCH BASIN
HC	HANDICAPPED	⊙ DMH	DOUBLE CATCH BASIN
---	PROPERTY LINE	⊙ FES	DRAINAGE MANHOLE
---	ASSESSORS LINE	⊙ EMH	FLARED END SECTION
---	TREELINE	⊙ UP	GUY POLE
---	GUARDRAIL	⊙ SMH	ELECTRIC MANHOLE/HANDHOLE
---	FENCE	⊙	UTILITY/POWER POLE
---	STEEL SHEET PILE	⊙	LIGHTPOST
---	STONE WALL	⊙	SEWER/SEPTIC MANHOLE
---	MINOR CONTOUR LINE	⊙	SEWER VALVE
---	MAJOR CONTOUR LINE	⊙	CLEANOUT
---	WATER LINE	⊙	HYDRANT
---	SEWER LINE	⊙	IRRIGATION VALVE
---	SEWER FORCE MAIN	⊙	WATER VALVE
---	ELECTRIC LINE	⊙	WELL
---	OVERHEAD WIRES	⊙	MONITORING WELL
---	DRAINAGE LINE	⊙	UNKNOWN MANHOLE
---	EROSION CONTROL	⊙	GAS VALVE
---	BITUMINOUS PAVEMENT	⊙	WETLAND FLAG
---	MILLED AND RESURFACED PAVEMENT	⊙	BORING
---	TEMPORARY CONSTRUCTION FENCE	⊙	BUSH
---	STEEL SHEET PILE WALL	⊙	TREE
---	TIMBER PILE	⊙	BENCH MARK
		⊙	TIMBER PILE

**DESIGN LOADS**

DOCKING AND MOORING DESIGN CRITERIA

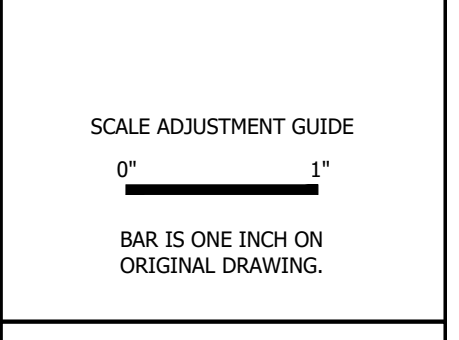
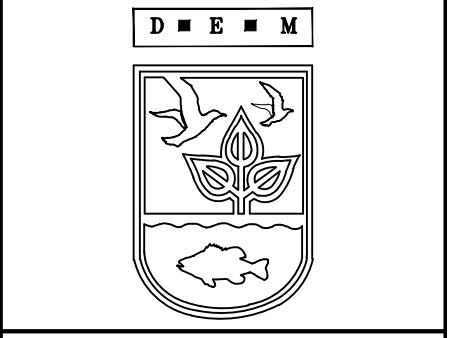
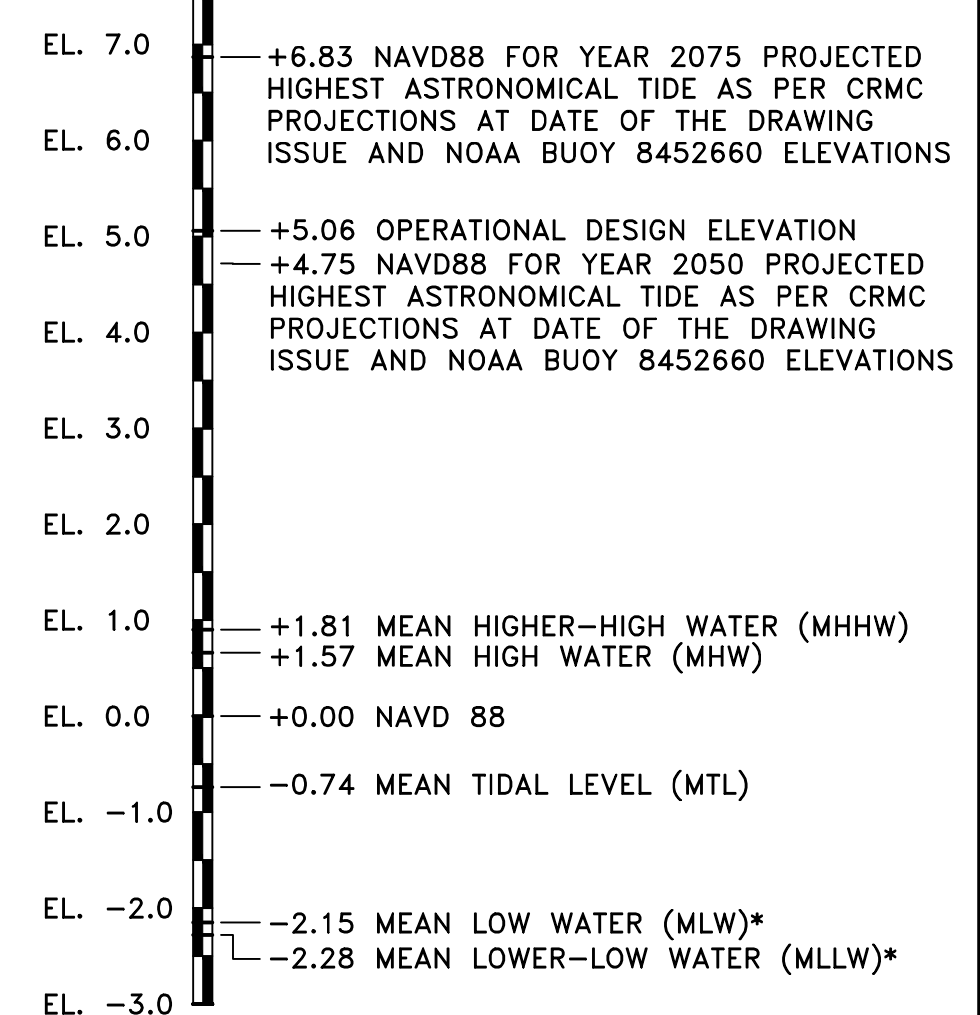
- DESIGN VESSEL
 

A. L (FT) .....	81.0
B. BM (FT) .....	25.8
C. DRAFT (FT) .....	14.6
D. GW (TONS, US) .....	193
E. SAIL AREA (SF) .....	41,979.3
F. CLASS .....	
G. NAME .....	
H. TYPE .....	FISHING VESSEL
- DOCKING STATION HYDRODYNAMIC DATA
 

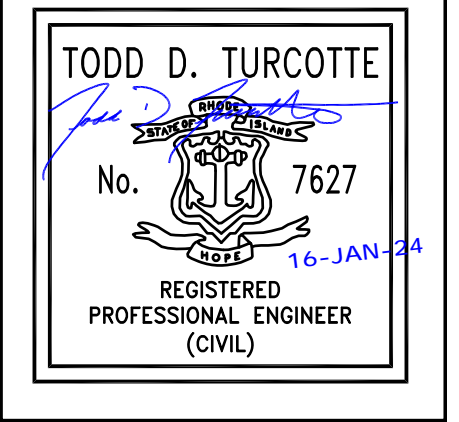
A. DESIGN DREDGE DEPTH, MIN (FT) .	15
B. WATER DENSITY (Pcf) .....	64
C. WIND SPEED (MPH) .....	94
D. DESIGN FETCH (NM) .....	
E. BERTHING CONDITION .....	GOOD
F. BERTHING EXPOSURE .....	EXPOSED
- BERTHING DESIGN DATA
 

A. CM .....	1.80
B. CB .....	0.20
C. CE .....	0.60
D. CS .....	1.00
E. CC .....	1.00
F. VELOCITY (FPS) .....	0.5
G. BERTHING ENERGY (T-F) .....	4.0
- BERTHING SYSTEM PRODUCTS ARE BASED UPON THE FOLLOWING MANUFACTURERS, LATEST PUBLISHED DATA AT THE DATE OF ISSUE;
  - TRELLEBORG MARINE SYSTEMS NORTH AMERICA
- EXISTING DOCKING AND MOORING CONSTRUCTION BASED UPON DRAWINGS BY \*\*\*\* DATED \*\*\*\*, PROVIDED BY THE OWNER.
 

DATUM INFORMATION  
NEWPORT 8452660  
\*PT. JUDITH 8455083 (5083 D 1987 DISC)  
\*WEEKAPAUG 8458022



**PIER F REMOVAL AND REPLACEMENT**  
**PORT OF GALILEE PHASE III**  
 NARRAGANSETT, RHODE ISLAND  
 RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



REVISIONS:

A	08/16/2023	ISSUED FOR 60% REVIEW
B	12/12/2023	ISSUED FOR PERMIT

PROJECT NO.:	23153.00
DATE:	JANUARY 2023
SCALE:	AS NOTED
DESIGNED BY:	JPN
CHECKED BY:	TD
DRAWN BY:	JPN
APPROVED BY:	TD

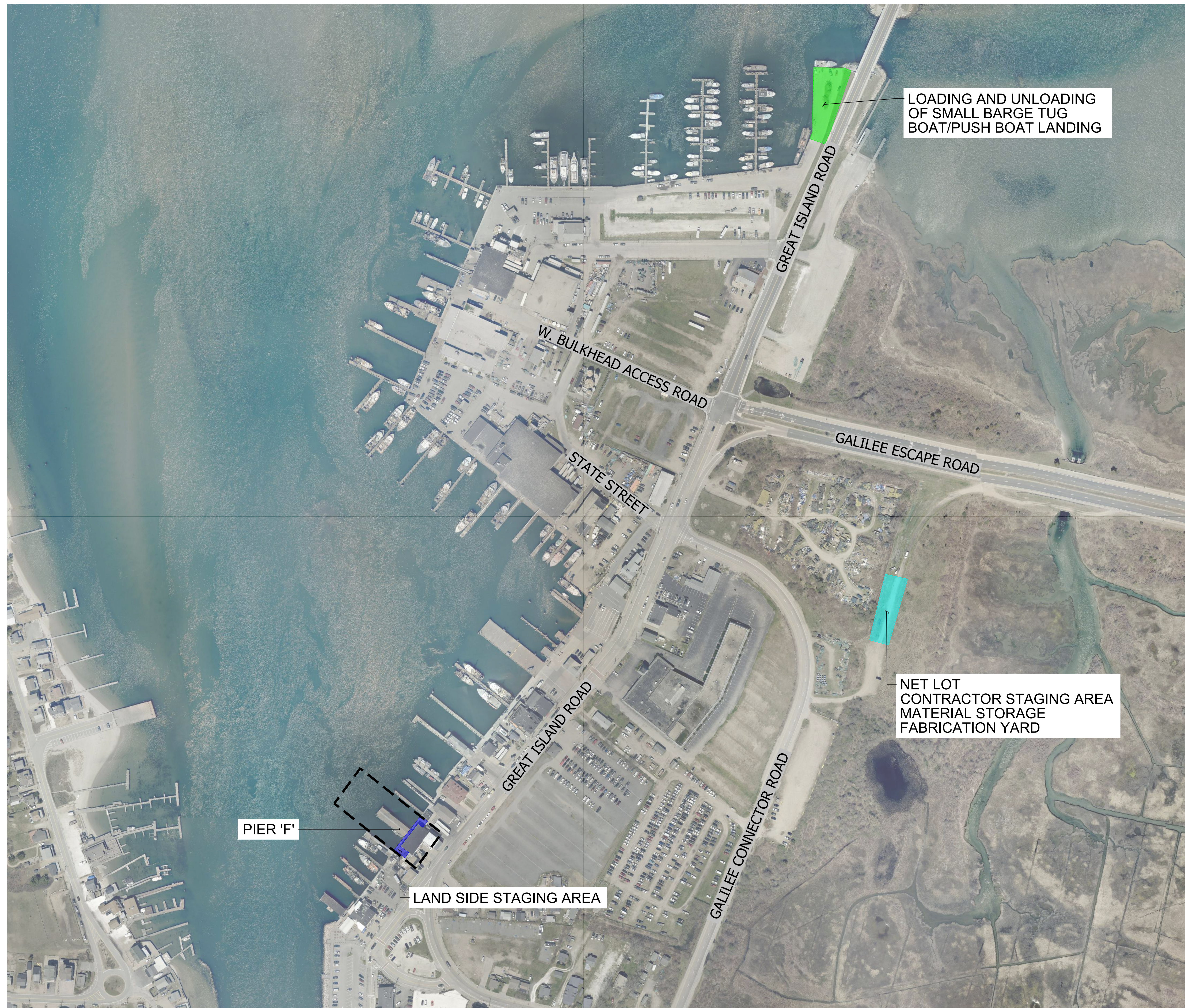
GENERAL NOTES

SHEET NO.: 1.0



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 PLOT BY: JPN





PIER 'F'

LAND SIDE STAGING AREA

LOADING AND UNLOADING OF SMALL BARGE TUG BOAT/PUSH BOAT LANDING

NET LOT CONTRACTOR STAGING AREA MATERIAL STORAGE FABRICATION YARD

RECEIVED  
1/18/2024  
COASTAL RESOURCES  
MANAGEMENT COUNCIL

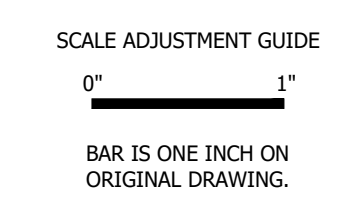
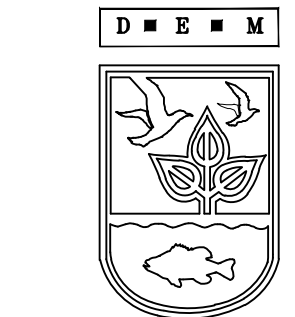
STAGING AND ACCESS PLAN  
SCALE: 1"=150'

**SHEET NOTES:**

- REFER TO STRUCTURAL NOTES ON SHEET S1.0 FOR MATERIAL SPECIFICATIONS AND DESIGN CRITERIA.



PERMIT DESIGN SUBMISSION NOT FOR CONSTRUCTION



PIER F REMOVAL AND REPLACEMENT  
PORT OF GALILEE PHASE III  
NARRAGANSETT, RHODE ISLAND  
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

TODD D. TURCOTTE  
No. 7627  
16-JAN-24  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:	
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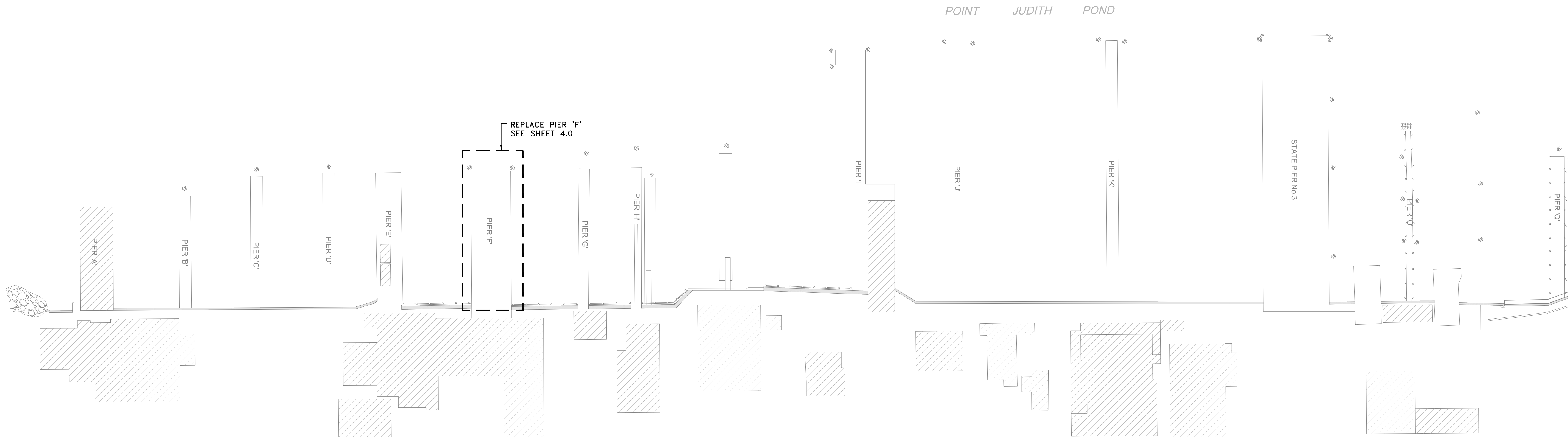
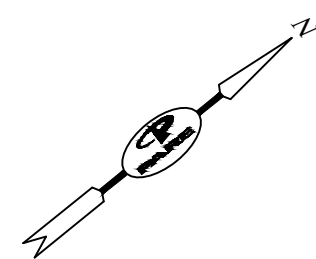
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DRAWN BY:	JPN
APPROVED BY:	TDT

STAGING AND ACCESS PLAN

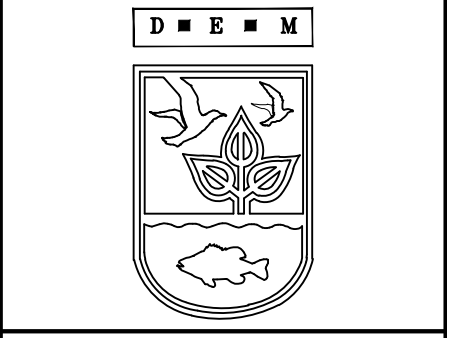
SHEET NO.: 2.0

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**EXISTING SITE PLAN**  
SCALE: 1"=40'



SCALE ADJUSTMENT GUIDE  
0" 1"  
BAR IS ONE INCH ON ORIGINAL DRAWING.

**PIER F REMOVAL AND REPLACEMENT  
PORT OF GALILEE PHASE III**  
NARRAGANSETT, RHODE ISLAND  
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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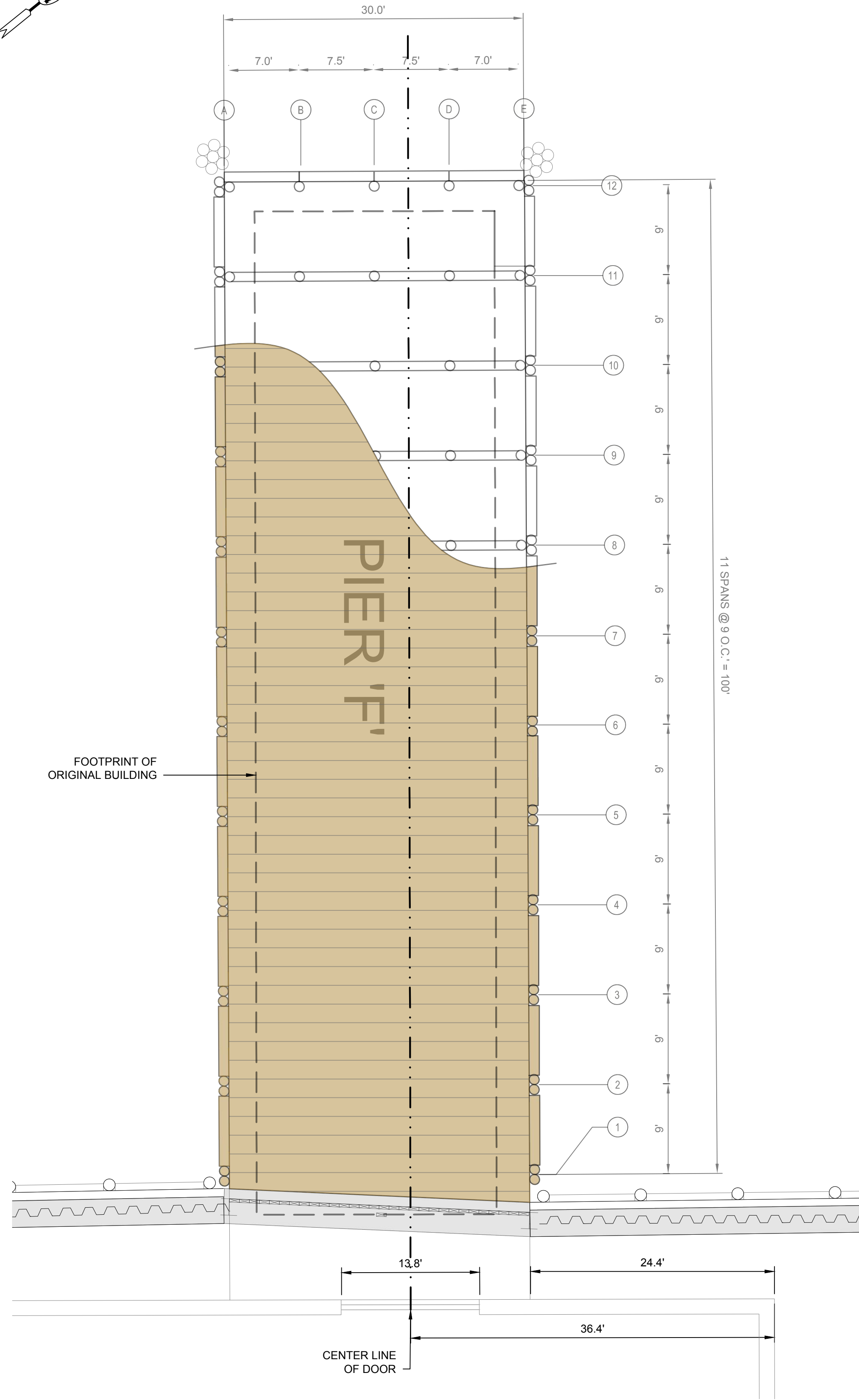
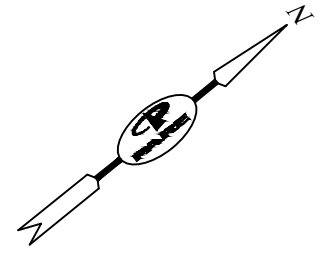


EXISTING SITE PLAN

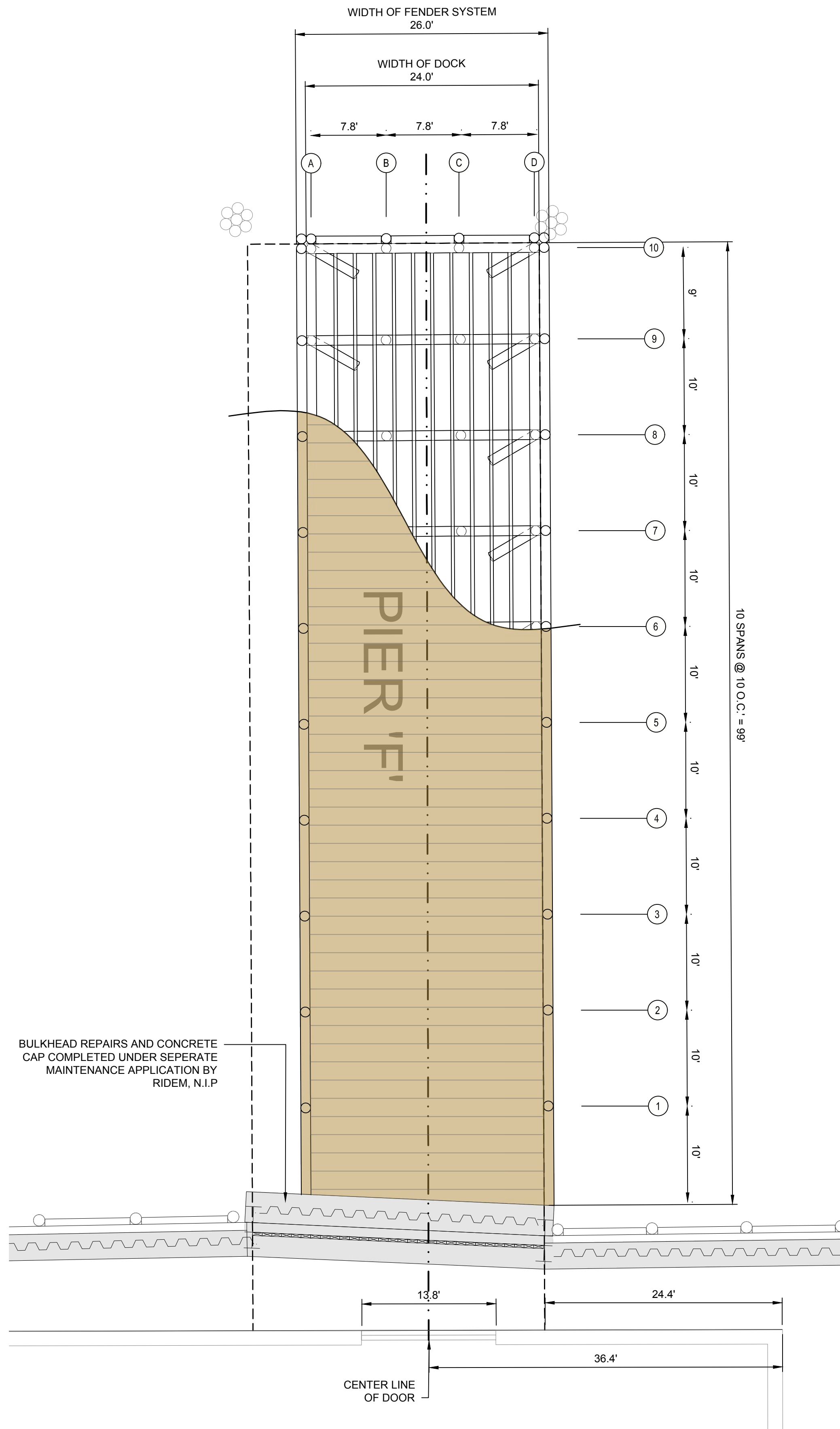
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COASTAL RESOURCES  
MANAGEMENT COUNCIL

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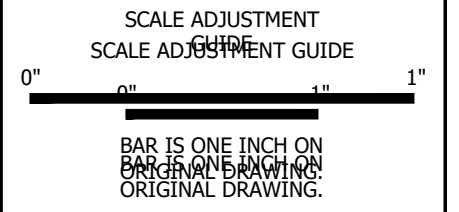
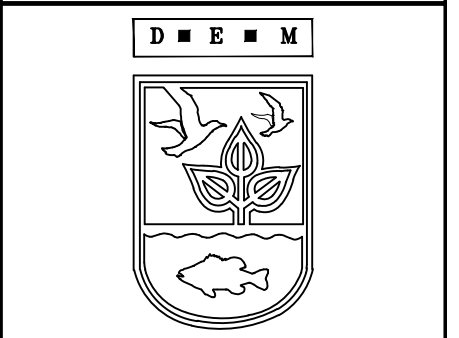
**PIER 'F' EXISTING PLAN**  
SCALE: 1/8"=1'



**PIER 'F' PROPOSED PLAN**  
SCALE: 1/8"=1'

**NOTES:**

1. THE CONSTRUCTION OF A NEW BUILDING IS NOT WITHIN THE SCOPE OF THIS WORK.



**PIER F REMOVAL AND REPLACEMENT  
PORT OF GALILEE PHASE III**  
NARRAGANSETT, RHODE ISLAND  
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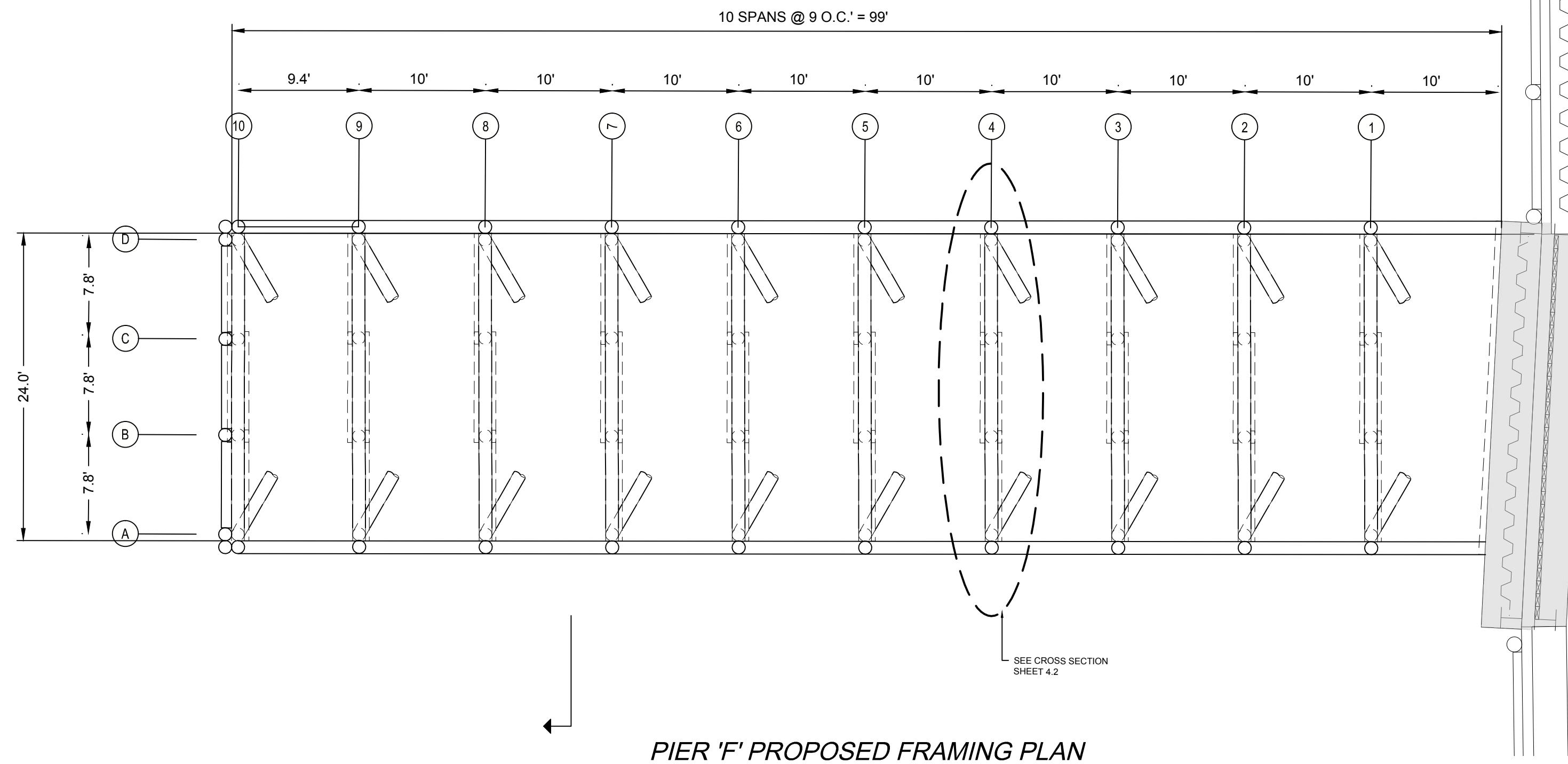
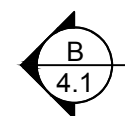
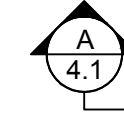
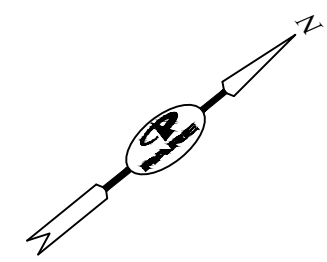
PIER 'F' PLAN

SHEET NO.: 4.0

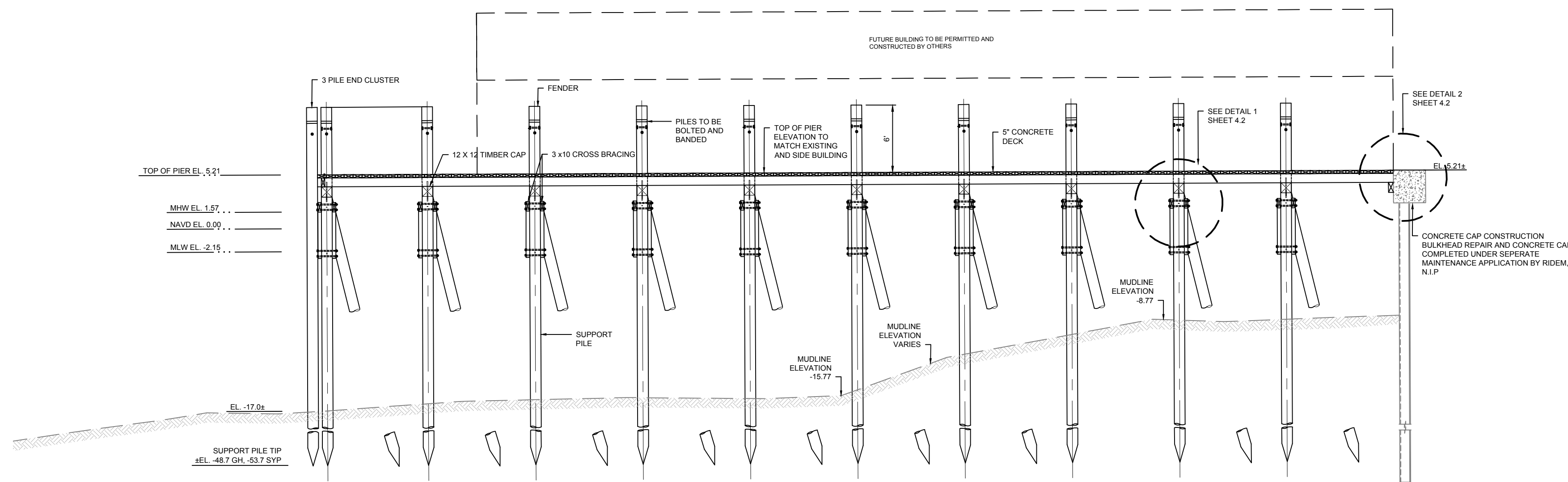


X:\WORK\23\_0081\23153.00\_00R\_Constr\_Dock\_Replacement\_Pier\_F\1.0\_Pier\_F.dwg





**PIER 'F' PROPOSED FRAMING PLAN**  
SCALE: 1/8"=1'



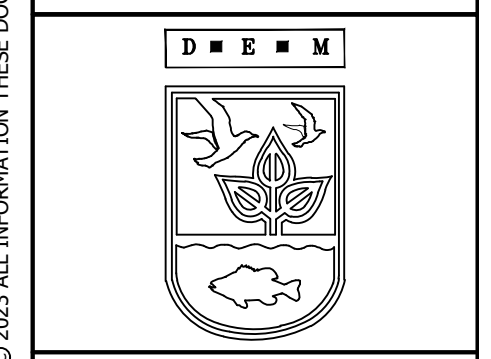
**PIER 'F' PROPOSED SECTION VIEW**  
SCALE: 1/8"=1'

**NOTES:**

1. FINAL FENDER/BEARING PILE STICK UP ELEVATION TO BE DETERMINED BY OWNER.
2. TOP OF PIER TO MATCH F.F.E. OF BUILDING.
3. FUTURE BUILDING NOT SHOWN ON PLAN VIEW FOR CLARITY.

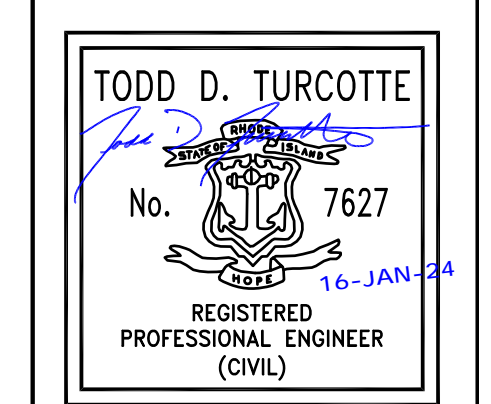


PERMIT DESIGN SUBMISSION NOT FOR CONSTRUCTION



SCALE ADJUSTMENT GUIDE  
0" 1"  
BAR IS ONE INCH ON ORIGINAL DRAWING.

**PIER F REMOVAL AND REPLACEMENT  
PORT OF GALILEE PHASE III**  
NARRAGANSETT, RHODE ISLAND  
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



REVISIONS:

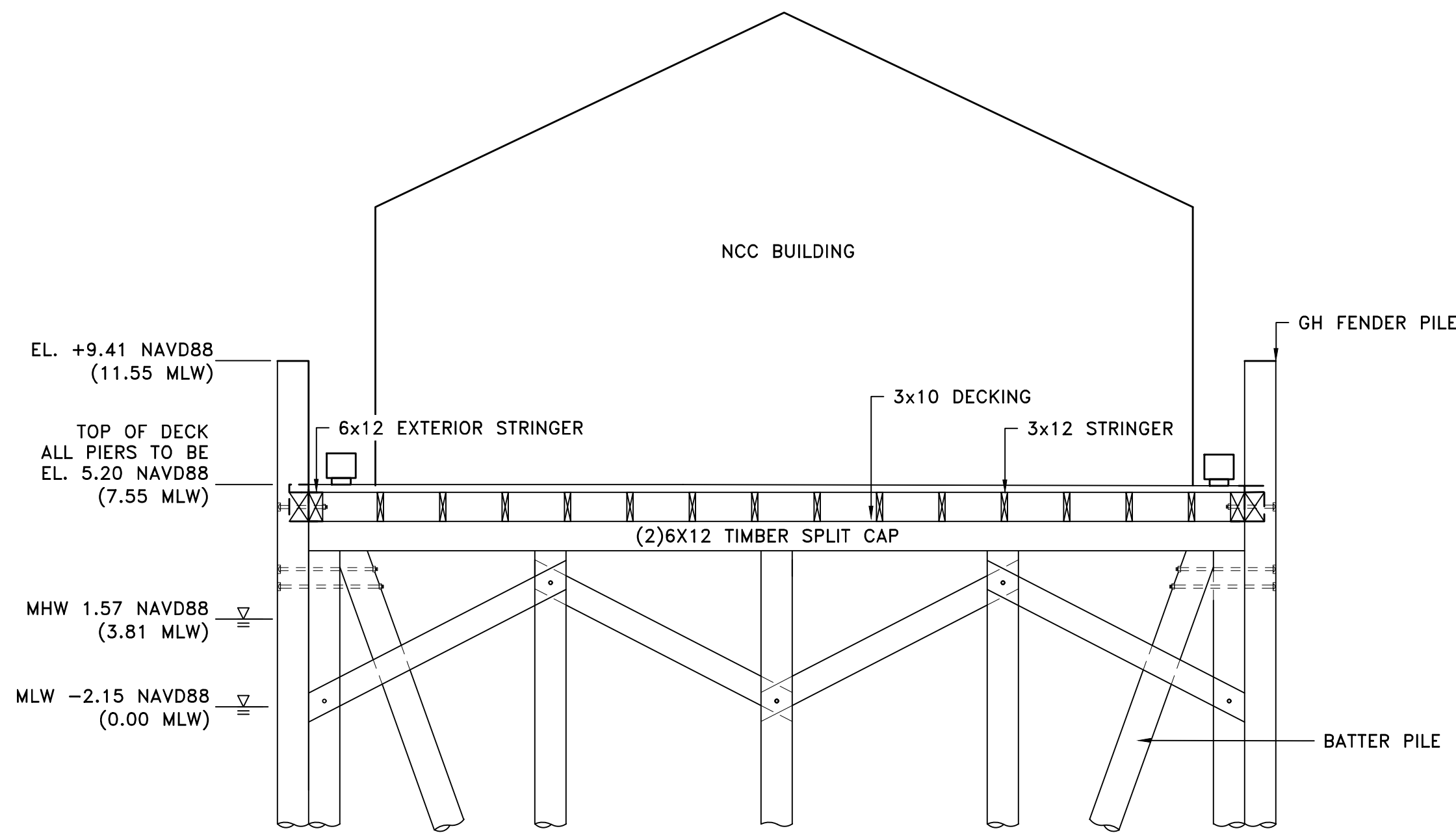
A	08/16/2023	ISSUED FOR 60% REVIEW
B	12/12/2023	ISSUED FOR PERMIT

PROJECT NO.: 23153.00  
DATE: JANUARY 2023  
SCALE: AS NOTED  
DESIGNED BY: JPN  
CHECKED BY: TDT  
DRAWN BY: JPN  
APPROVED BY: TDT

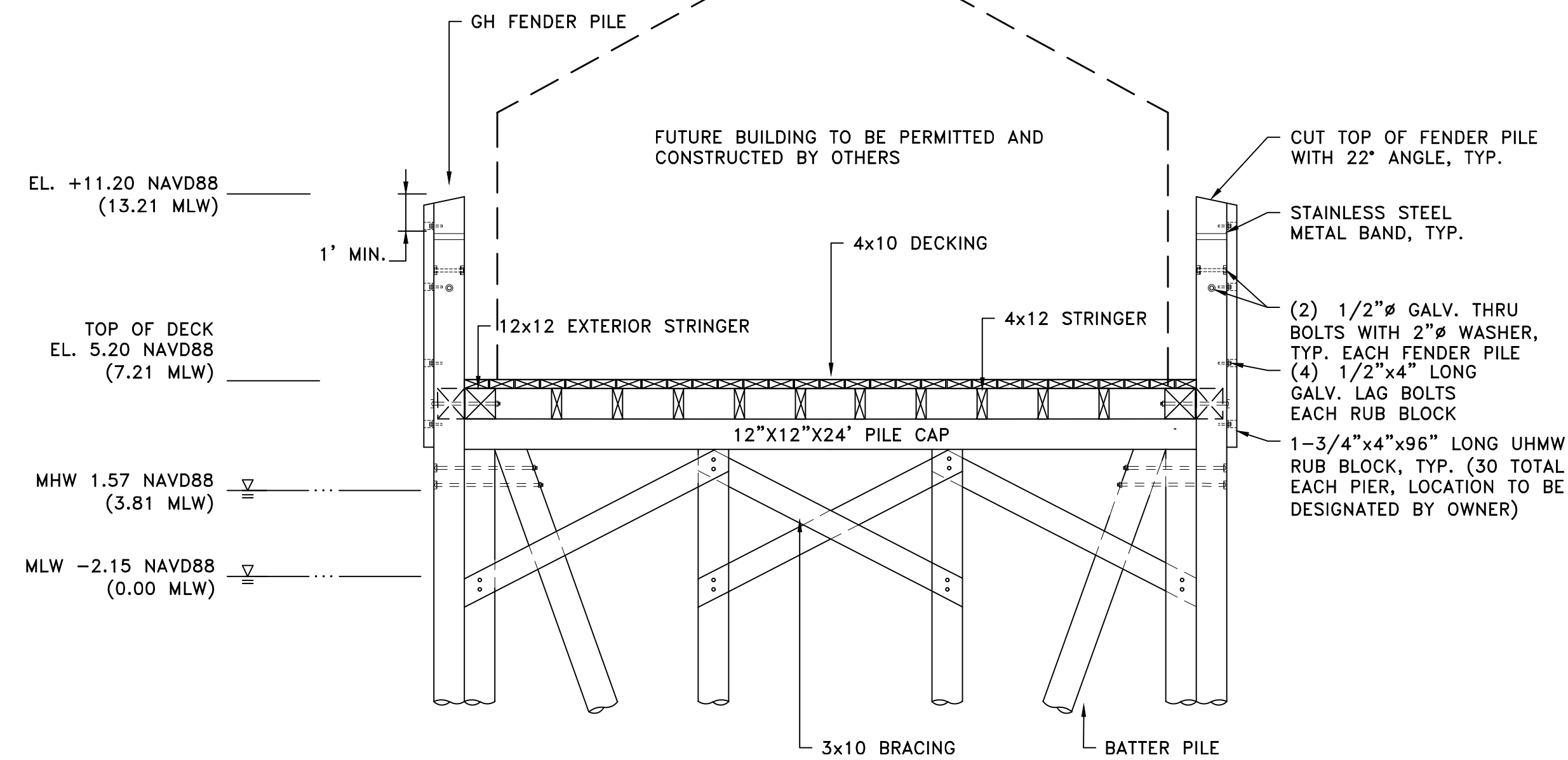
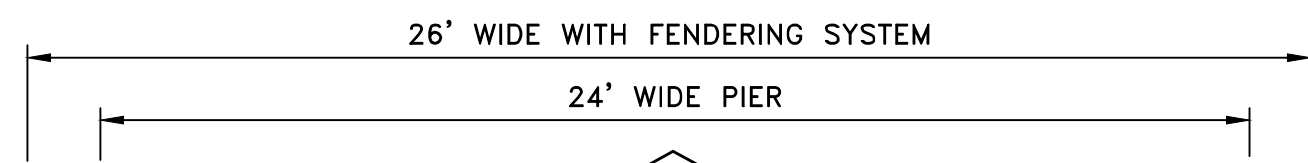
PIER 'F'  
CROSS SECTION VIEW

SHEET NO.: 4.1

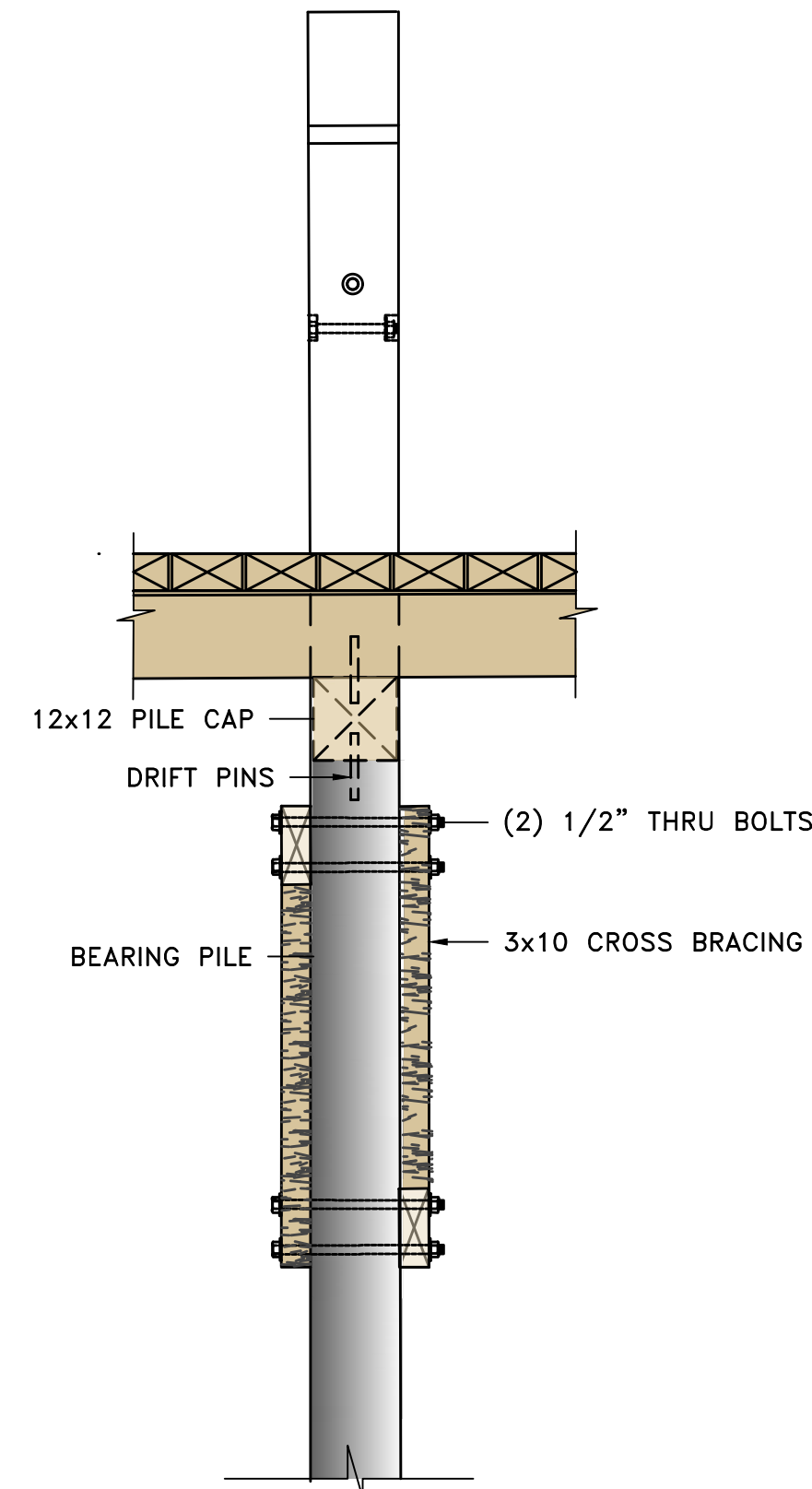
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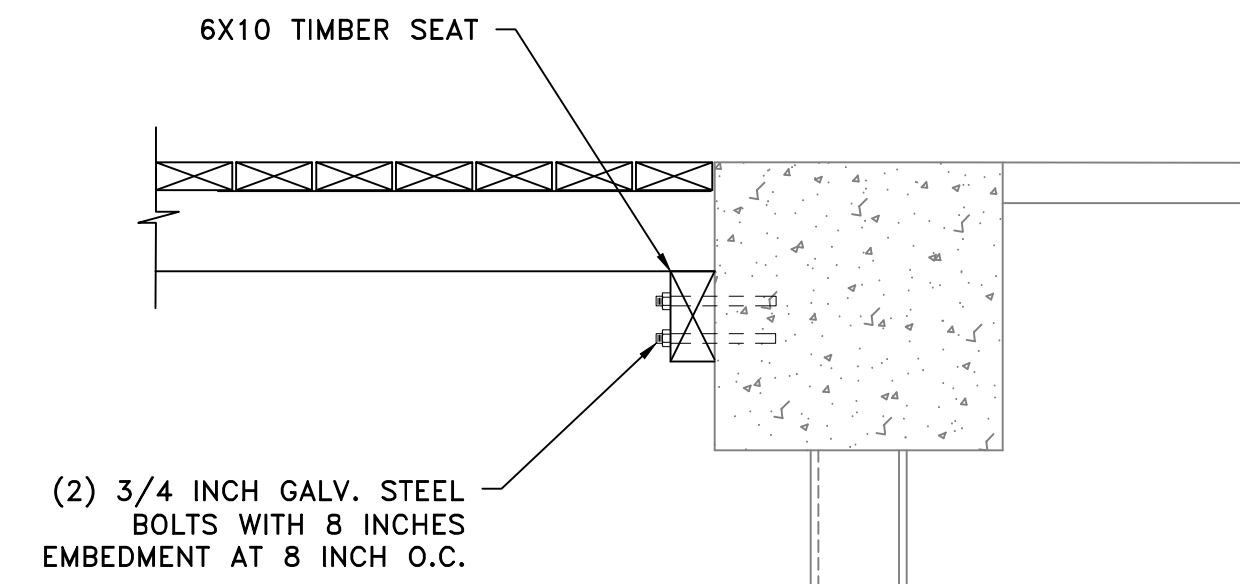
**PIER 'F' EXISTING SECTION**  
SCALE: 1"=4'



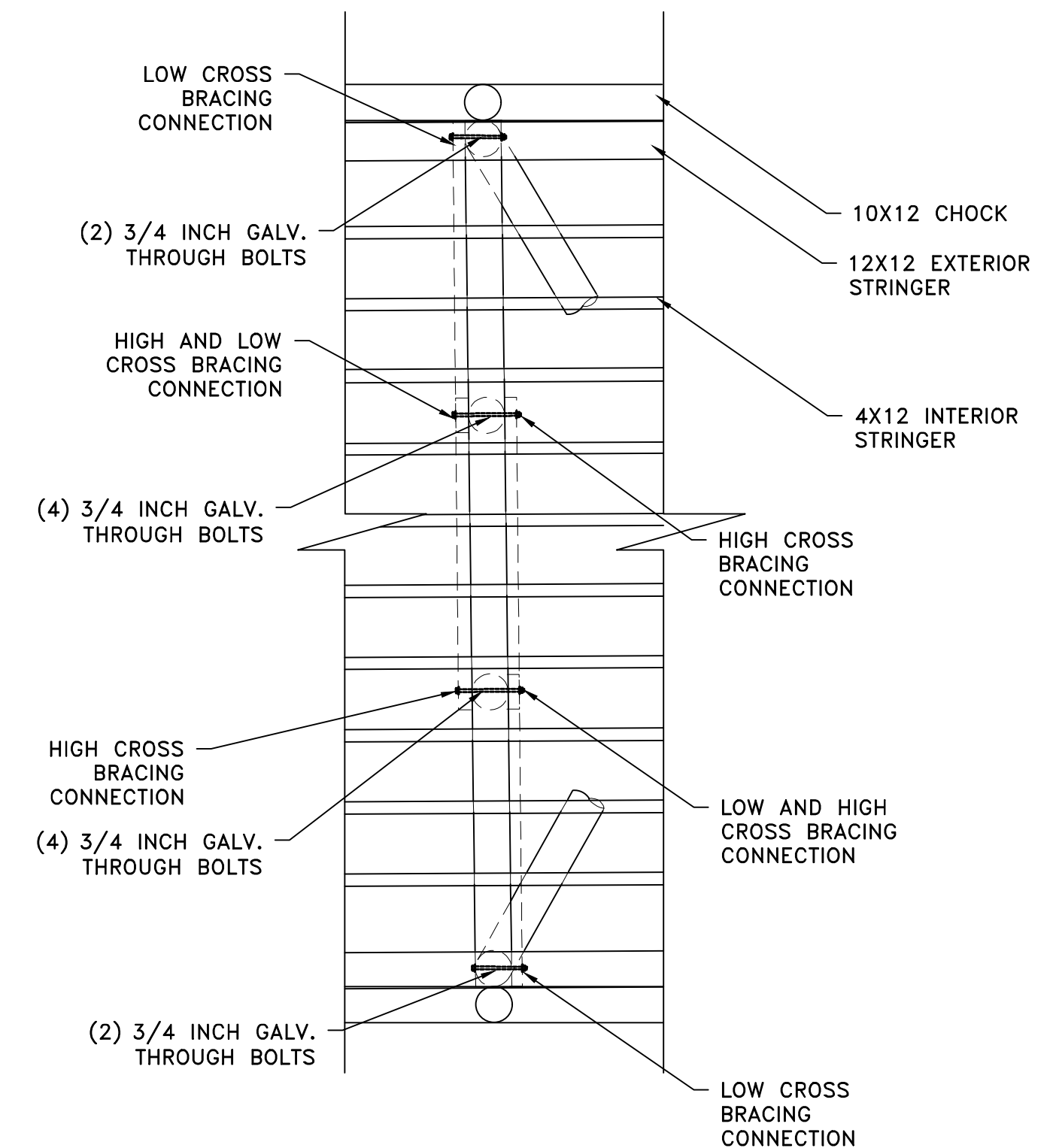
**ALTERNATIVE A PIER 'F' TIMBER PROPOSED SECTION**  
SCALE: 1"=4'



**DETAIL 1 PILE CAP AND BRACING**  
SCALE: 1"=2'



**DETAIL 2 BULKHEAD CONNECTION**  
SCALE: 1"=1'



**DETAIL 1 PILE CAP AND BRACING**  
SCALE: 1"=4'

**NOTES:**

1. LOW CROSS BRACING CONNECTION TO OCCUR UNDER BATTER PILE ELEVATION.
2. BOLTS NOT RELATING TO CROSS BRACING NOT SHOWN FOR CLARITY

REVISIONS:	
A	08/16/2023 ISSUED FOR 60% REVIEW
B	12/12/2023 ISSUED FOR PERMIT

PROJECT NO.:	23153.00
DATE:	JANUARY 2023
SCALE:	AS NOTED
DESIGNED BY:	JPN
CHECKED BY:	TDT
DRAWN BY:	JPN
APPROVED BY:	TDT

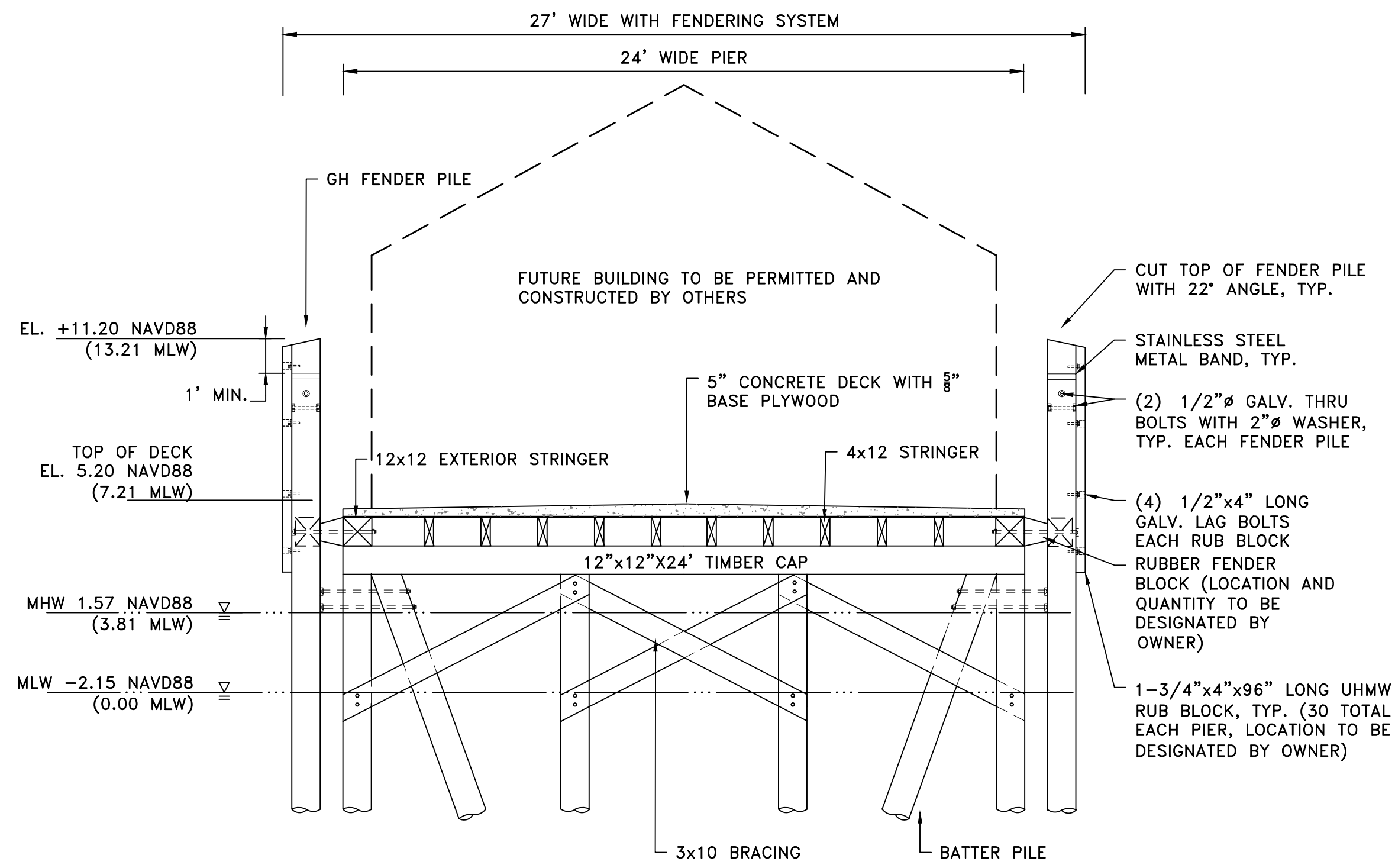
PIER 'F'  
DETAILS

SHEET NO.: 4.2

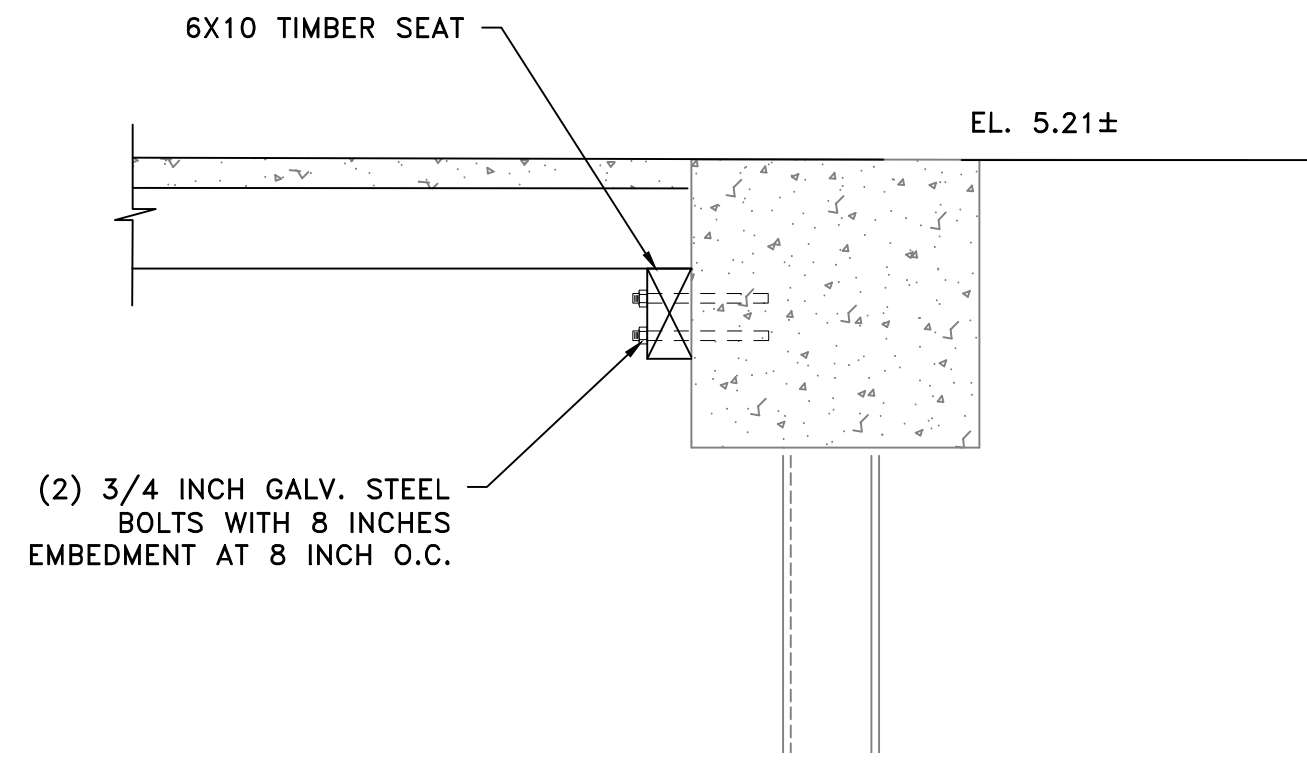


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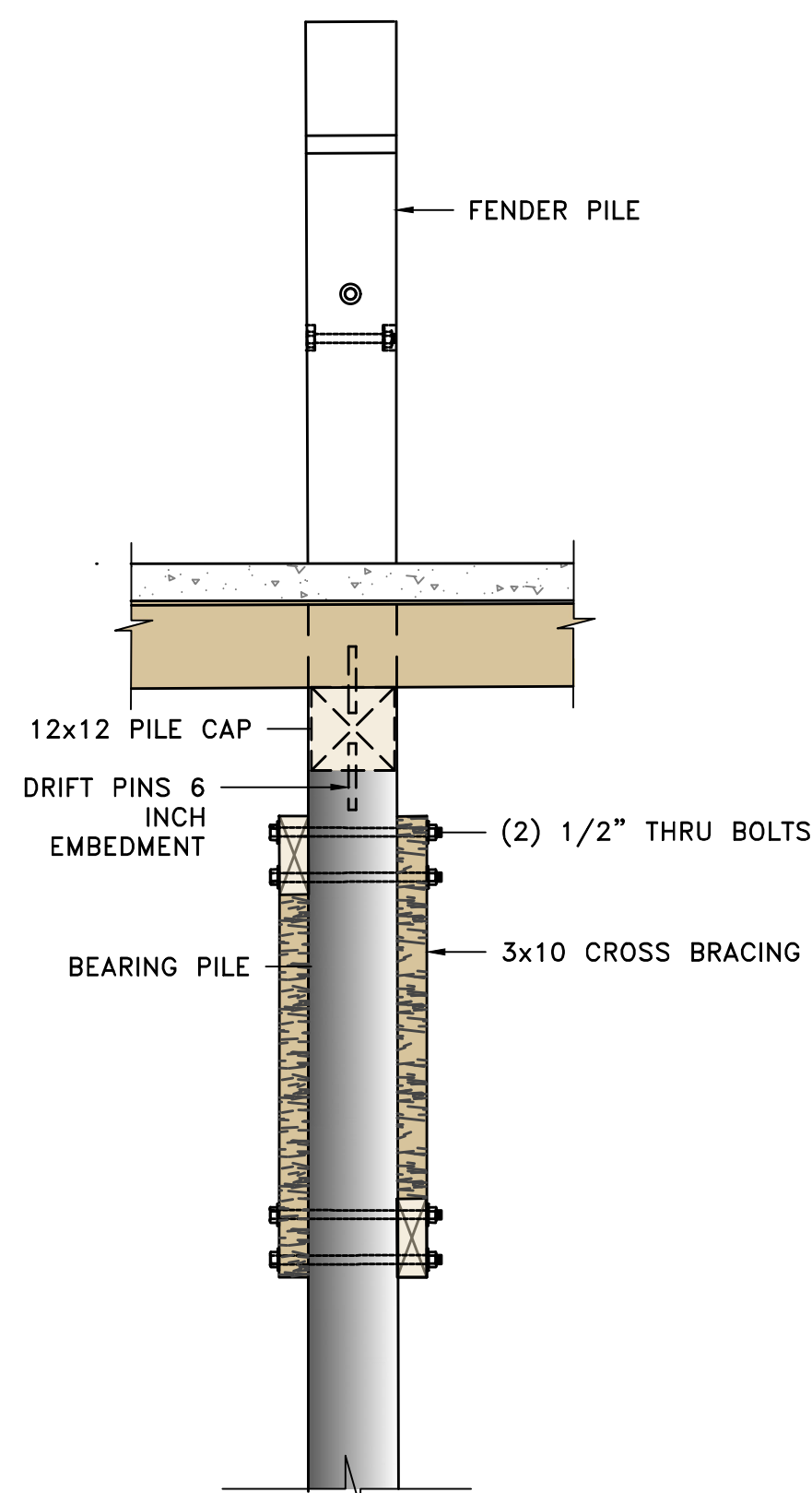




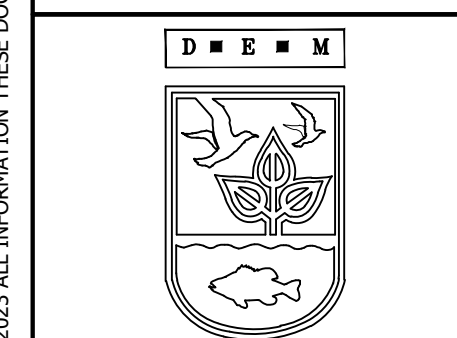
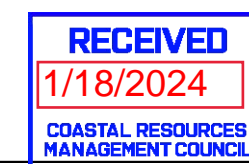
**ALTERNATIVE B**  
**PIER 'F' CONCRETE PROPOSED SECTION**  
 SCALE: 1"=4'



**DETAIL 2**  
**BULKHEAD CONNECTION**  
 SCALE: 1"=1'

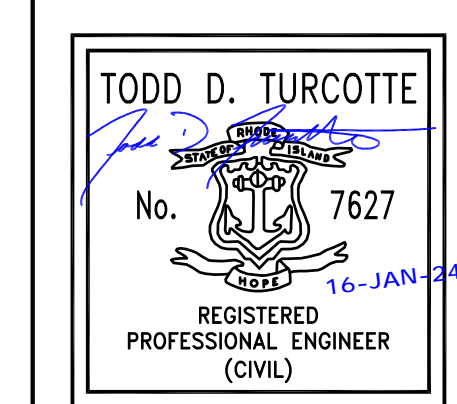


**DETAIL 1**  
**PILE CAP AND BRACING**  
 SCALE: 1"=2'



SCALE ADJUSTMENT  
 SCALE ADJUSTMENT GUIDE  
 0" 1"  
 BAR IS ONE INCH ON EACH END OF ORIGINAL DRAWING.

**PIER F REMOVAL AND REPLACEMENT**  
**PORT OF GALILEE PHASE III**  
 NARRAGANSETT, RHODE ISLAND  
 RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



REVISIONS:		
A	08/16/2023	ISSUED FOR 60% REVIEW
B	12/12/2023	ISSUED FOR PERMIT

PROJECT NO.: 23153.00  
 DATE: JANUARY 2023  
 SCALE: AS NOTED  
 DESIGNED BY: JPN  
 CHECKED BY: TDT  
 DRAWN BY: JPN  
 APPROVED BY: TDT

PIER 'F'  
 ALTERNATIVE DETAILS

SHEET NO.: 4.3