

INDEX OF DRAWINGS

Sheet No.	Sheet Title	Rev. No.	Rev. Date
G-001	COVER SHEET		
G-002	GENERAL NOTES		
C-101	CONSTRUCTION ACCESS PLAN		
C-102	EXISTING CONDITIONS PLAN		
S-101	EXISTING & PROPOSED PIER PLAN		
S-201	PROPOSED PIER ELEVATION AND PILE PLAN		
S-501	PROPOSED PIER DETAILS		

STATE OF RHODE ISLAND

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

PIER 'G' REMOVAL AND REPLACEMENT
PORT OF GALILEE: PHASE IV

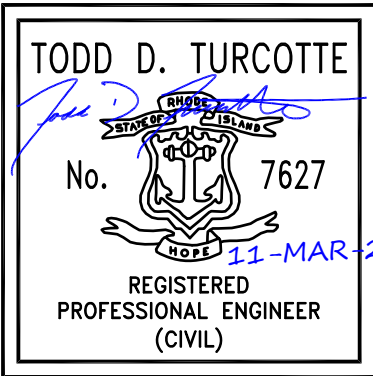
NARRAGANSETT, RHODE ISLAND
Pare Project No. 23153.01



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE 10 LINCOLN ROAD, SUITE 210 14 BOBALA ROAD, SUITE 2B
LINCOLN, RI 02865 FOXBORO, MA 02035 HOLYOKE, MA 01040
401-334-4100 508-543-1755 413.507.3448



REVISIONS		
NO.	DESCRIPTION	DATE
A	30% DESIGN IFCR	12-10-24
B	ISSUED FOR PERMIT	03-12-25



ISSUED FOR PERMIT
NOT FOR CONSTRUCTION



Locus Map
Scale: 1"=500'



MARCH 2025

1. FOR THE PURPOSE OF THIS PROJECT

- 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 |
2. 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.
3. 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.
4. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SAFETY OF WORK.
5. 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)
6. HORIZONTAL DATUM: RHODE ISLAND STATE PLANE - NAD83
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM - NAVD88
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. PLANS SHALL NOT BE SCALED FOR DIMENSIONS.
8. NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF SIMILAR NATURE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL PROJECT DEMOLITION AND EXCESS MATERIAL IN ACCORDANCE WITH RHODE ISLAND, LOCAL, AND FEDERAL LAWS.
10. THE CONTRACTOR SHALL PROTECT ALL ADJACENT STRUCTURES AND UTILITIES.
11. 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.
12. THE CONTRACTOR WILL SUBMIT A CONSTRUCTION SCHEDULE TO THE OWNER. THE CONTRACTOR WILL UPDATE SCHEDULE AS NEEDED THROUGHOUT THE COURSE OF WORK.
13. THE CONTRACTOR SHALL STAGE ALL EQUIPMENT IN THE DESIGNATED STAGING AREA(S). ALL GREASING AND REFUELING ACTIVITIES SHALL OCCUR IN THE STAGING AREA(S). 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.
14. 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.
15. 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.
16. 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.
17. THE PROJECT LIMITS IS LOCATED WITHIN THE FEMA FLOOD ZONE VE EL. 15 AND WILL BE INUNDATED DURING THE 100-YR STORM AS SHOWN ON THE WASHINGTON COUNTY FLOOD INSURANCE (FIS) MAP, PANEL 194/386, MAP NUMVER 44009(0194), REVISED DATE OCT. 16, 2013

1. PRIOR TO PROJECT COMMENCEMENT, DESIGN BUILDER AND OWNER WILL NOTIFY AND COORDINATE WITH ALL STATE, LOCAL AND FEDERAL AUTHORITIES AS REQUIRED.
2. 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.
3. PREVIOUS PIER TO BE DEMOLISHED AND REMOVED. IN PLACE PILES TO BE CUT AT MUDLINE WHEN NECESSARY.
4. LAYOUT THE PRELIMINARY ALIGNMENT OF PILES SUCH THAT THE PROPOSED NORTHERN EDGE OF PIER IS ALIGNED WITH THE EXISTING NORTHERN EDGE.
5. DRIVE NEW TIMBER SUPPORT PILES TO THE SPECIFIED DEPTH AS SEEN ON SHEET S-201 - PROPOSED PIER ELEVATION AND PILE PLAN.
6. INSTALL L ANGLE ON EXISTING CONCRETE BULKHEAD.
7. INSTALL NEW TIMBER PIER FRAMING AS INDICATED ON THE DRAWINGS.
8. INSTALL 4 X 10 INCH DECKING ON TOP OF INSTALLED STRINGERS.
9. INSTALL FENDER SYSTEM AND END PILE CLUSTERS.
10. DEMOBILIZE AND RETURN DISTURBED AREAS OF THE SITE TO PRE-CONSTRUCTION CONDITIONS.

1. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT.
2. CONTRACTOR SHALL PREVENT SEDIMENT FROM ENTERING THE WATERWAY VIA DISCHARGES THROUGH ANY DRAINAGE STRUCTURES OR RUNOFF FROM WITHIN THE LIMITS OF WORK.
3. 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.
4. SOIL STOCKPILES SHALL BE A MINIMUM OF 2-FEET FROM THE EDGE OF THE BULKHEAD TO LIMIT RUNOFF INTO THE HARBOR.
5. DISCHARGE OF TURBID WATER TO THE WATERWAY IS PROHIBITED.

1. TIMBER DESIGNATED AS TREATED SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C2, SERVICE CONDITION UC5A-B AS SPECIFIED IN THE TABLE BELOW:
2. STRUCTURAL DESIGN IS BASED ON SOUTHERN YELLOW PINE NO. 2 KD-19 WITH MINIMUM REFERENCE DESIGN VALUES AS SPECIFIED IN THE TABLE BELOW:
3. ALL TIMBER FRAMING MEMBERS SHALL BE ROUGH GRADED UNLESS OTHERWISE NOTED.
4. 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.
5. 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.
6. BRUSH OR ROLLER APPLY TWO COATS OF WOOD PRESERVATIVE TO ANY SURFACE WHICH HAS BEEN FIELD CUT, DRESSED, OR DRILLED.

COMPONENT	BENDING F _b (PSI)	SHEAR F _v (PSI)	COMPRESSION PERP. TO GRAIN F _c (PSI)	COMPRESSION PAR. TO GRAIN F _c (PSI)	TREATMENT
6x12 RGH	1100	175	565	1450	0.80 CCA
10x12 RGH	800	175	565	1300	0.80 CCA
12x12 RGH	750	175	565	1250	0.80 CCA
4x10 DECKING	1150	175	375	N/A	0.23 MCA

1. ALL TIMBER PILES ARE TO BE GREENHEART TIMBER PILES WITH A MINIMUM DIAMETER RANGING BETWEEN 12 AND 14-INCHES, 3 FEET FROM BUTT
 - 1.1. BENDING STRESS = 20,000 PSI
 - 1.2. MODULUS OF ELASTICITY = 3,000 KSI
 - 1.3. MAXIMUM CRUSHING STRENGTH = 10,500 PSI
2. GREENHEART PILES TO HAVE TWO STAINLESS STEEL BANDS MINIMUM 1 FOOT FROM TOP OF PILE
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A PILE DRIVING LOG OF DRIVEN DEPTHS AND WILL BE RESPONSIBLE FOR REPORTING ANY PILE OR SET OF PILES NOT MEETING DESIGN REQUIREMENTS AS STATED ON THE SET OF PLANS

1. SPILLS AND LEAKS SHALL BE AVOIDED THROUGH FREQUENT INSPECTION OF EQUIPMENT AND MATERIAL STORAGE AREAS, AND SHALL BE REMEDIATED AND REPAIRED AS NECESSARY.
2. 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.
3. 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.
4. SPILL REMEDIATION SHALL BE PERFORMED IMMEDIATELY. CONTRACTOR SHALL FOLLOW PROPER RESPONSE PROCEDURES IN ACCORDANCE WITH ANY APPLICABLE REGULATORY REQUIREMENTS.
5. AT NO TIME SHALL SPILLS BE DIVERTED TOWARD STORM DRAINS OR TO THE WATERWAY.
6. EQUIPMENT/VEHICLE FUELING AND REPAIR/MAINTENANCE OPERATIONS SHALL TAKE PLACE ONLY WITHIN DESIGNATED STAGING AREAS.
7. THE EQUIPMENT OPERATOR SHALL FULLY MONITOR FUELING OPERATIONS TO EQUIPMENT AND VEHICLES AT ALL TIMES.
8. ANY SPILLAGE SHALL BE IMMEDIATELY CLEANED WITH SPILL KITS KEPT ON SITE.
9. 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.
10. 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.

EXISTING

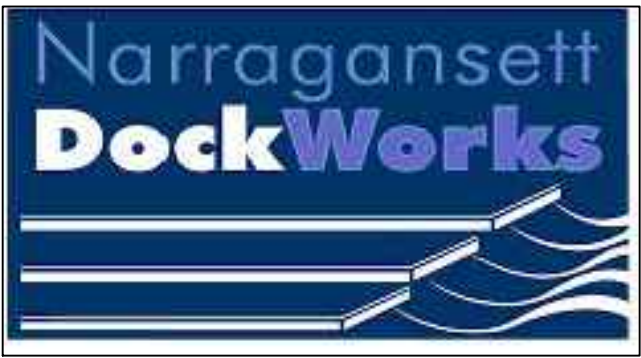
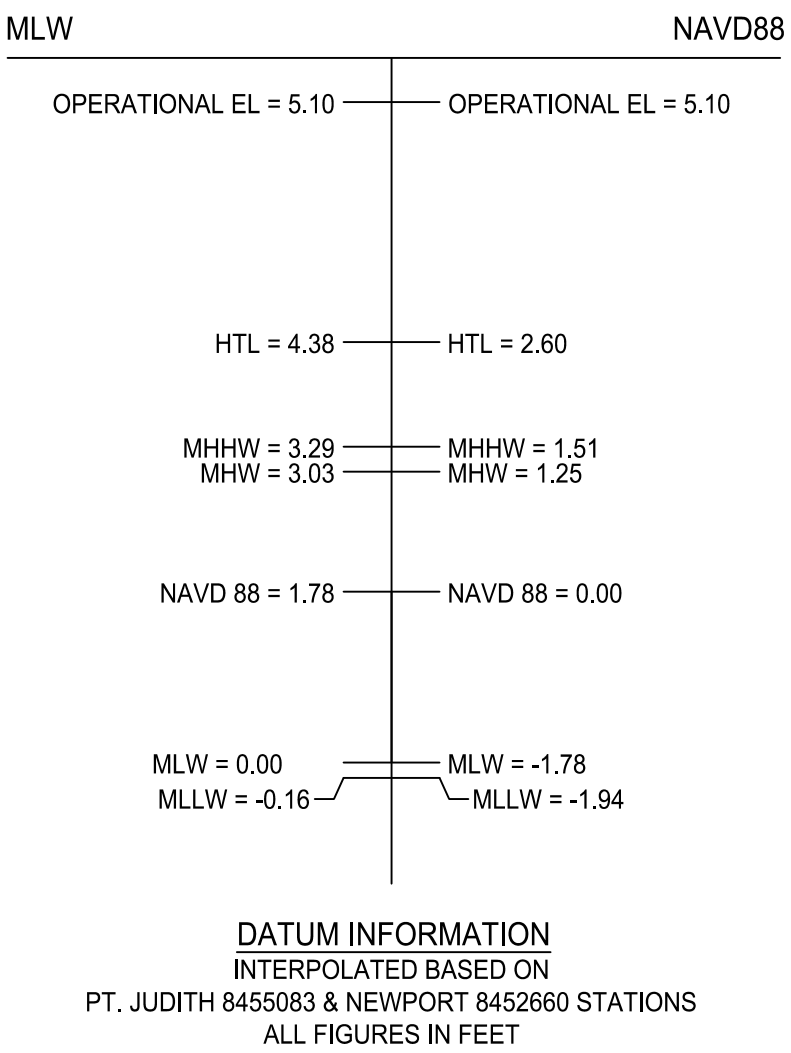
EXISTING

NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY

BUILDING			NAIL FOUND/SET
ASPHALT			DRILL HOLE FOUND/SET
			IRON ROD/PIPE FOUND/SET
AP	ASSESSOR'S PLAT		BOUND FOUND/SET
N/F	NOW OR FORMERLY		SIGN
(D)	DEED		BOLLARD
(M)	MEASURED		SOIL EVALUATION
(C)	CALCULATED		CATCH BASIN
(CA)	CHORD ANGLE		DOUBLE CATCH BASIN
HC	HANDICAPPED		DRAINAGE MANHOLE
T.O.C.	TOP OF CAP		FLARED END SECTION
			GUY POLE
	PROPERTY LINE		ELECTRIC MANHOLE/HANDHOLE
	ASSESSORS LINE		UTILITY/POWER POLE
	TREELINE		LIGHTPOST
	GUARDRAIL		SEWER/SEPTIC MANHOLE
	FENCE		SEWER VALVE
	STEEL SHEET PILE		CLEANOUT
	STONE WALL		HYDRANT
	MINOR CONTOUR LINE		IRRIGATION VALVE
	MAJOR CONTOUR LINE		WATER VALVE
	WATER LINE		WELL
	SEWER LINE		MONITORING WELL
	SEWER FORCE MAIN		UNKNOWN MANHOLE
	GAS LINE		GAS VALVE
	ELECTRIC LINE		WETLAND FLAG
	OVERHEAD WIRES		BORING
	DRAINAGE LINE		BUSH
			TREE
			BENCH MARK
			TIMBER PILE

PIER LOADINGS

PIER LOADINGS		
1. BERTHING AND MOORING LOADS		
A.	L (FT)	81
B.	BM (FT)	26
C.	DRAFT (FT)	15
D.	GW (TONS, US)	193
E.	DT (ASSUMED)(TONS, US)	330
F.	SAIL AREA (SF)	41,979
G.	CLASS	
H.	NAME	
I.	TYPE	FISHING VESSEL
J.	DESIGN DREDGE DEPTH, MAX (FT)	15
K.	WATER DENSITY (PCF)	64
L.	WIND SPEED (MPH)	94
M.	DESIGN FETCH (NM)	64
N.	BERTHING CONDITION	GOOD
O.	BERTHING EXPOSURE	EXPOSED
P.	VELOCITY (FT/SEC)	0.5
Q.	BERTHING ENERGY (KIP-FT)	1.1
2. VERTICAL LOADS		
A.	PIER DESIGN LIVE LOAD (PSF)	250
B.	GROUND SNOW LOAD (PSF)	30
C.	DEAD LOAD (PSF)	SELF WEIGHT OF TIMBER MEMBERS



ISSUED FOR PERMIT
NOT FOR CONSTRUCTION



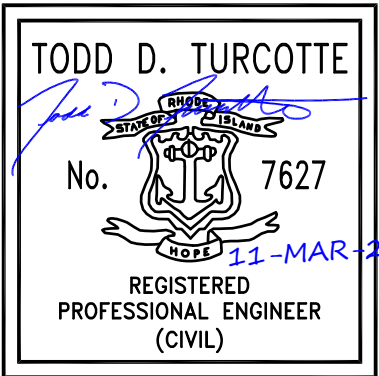
SCALE ADJUSTMENT GUIDE

0" 1"

BAR IS ONE INCH ON ORIGINAL DRAWING

PIER 'G' REMOVAL AND REPLACEMENT
PORT OF GALILEE: PHASE IV
NARRAGANSETT, RHODE ISLAND

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL
MANAGEMENT



PROJECT NO.:	23153.01	
DATE:	MARCH 2025	
SCALE:	AS NOTED	
DESIGNED BY:	JPN	
CHECKED BY:	TGD	
DRAWN BY:	TJD	
APPROVED BY:	TDT	
DRAWING TITLE:		

GENERAL NOTES

DRAWING NO.:

G-002

SHEET NO. 2 OF 7

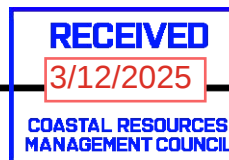


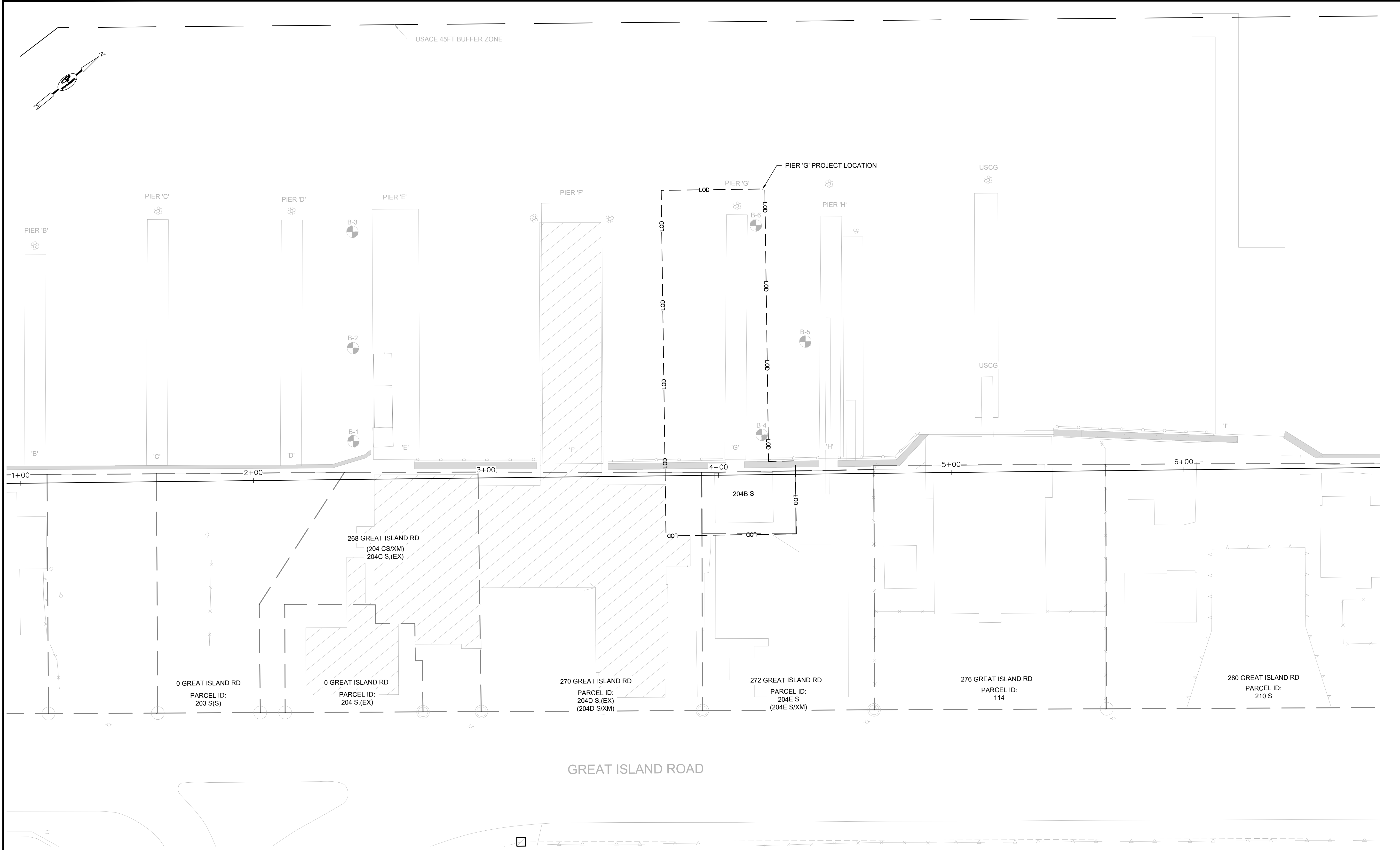
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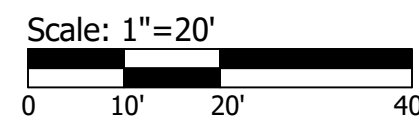
LAND SIDE STAGING AREA

\\JOBS\23 Jobs\23153.01 RIDEM Galilee Phase 4_NDW-Reagan DB-R\DWGS\ - Pier G\C-101 CONSTRUCTION ACCESS PLAN.dwg





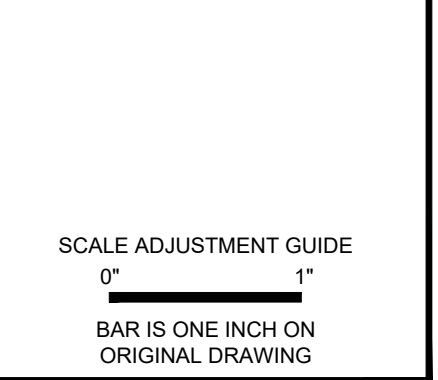
- NOTES:**
- BORINGS REFERENCE BORING LOCATION PLAN AND LOGS COMPLETED IN MAY, 1999 BY GUILD DRILLING CO., INC.
 - STATIONS REFERENCES A BASELINE BEGINNING AT THE CORNER OF THE SOUTH BULKHEAD TIE IN, SOUTH OF PIER 'A', TO THE SOUTH OF PIER 'A' AND TERMINATING AT THE RIGHT BULKHEAD TIE IN TO THE EAST OF PIER 'UU'.



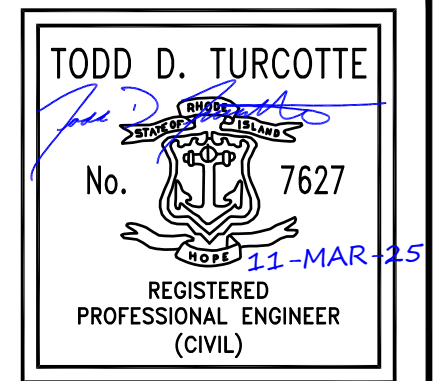
EXISTING CONDITIONS PLAN
SCALE: 1"=20'



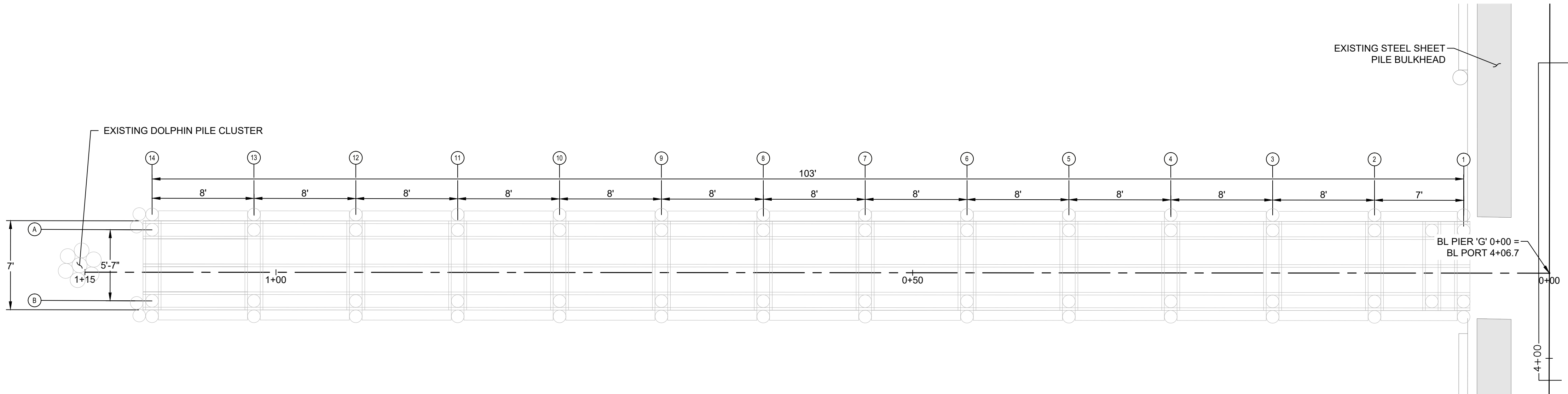
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NOT FOR CONSTRUCTION



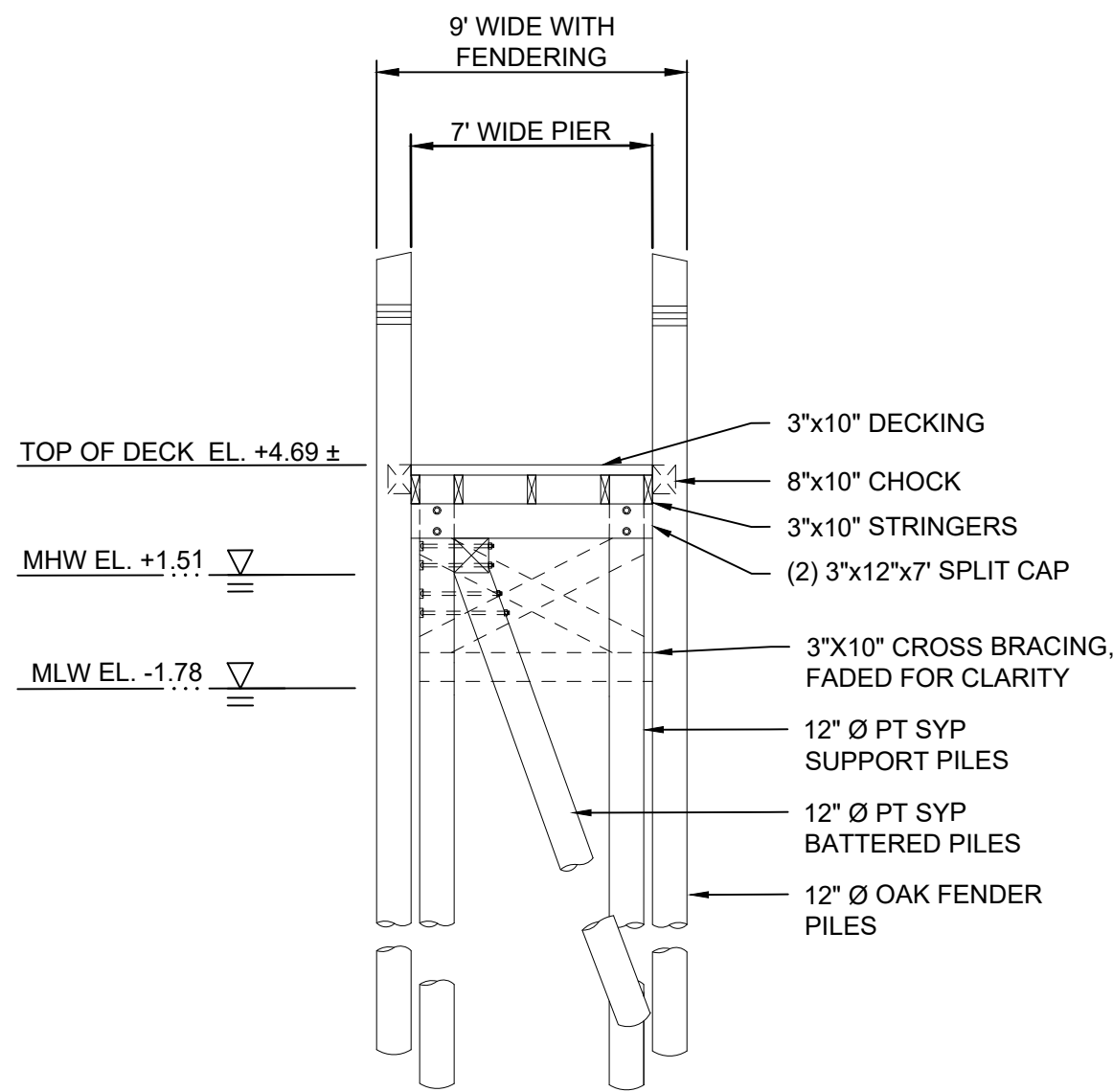
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PORT OF GALILEE: PHASE IV
NARRAGANSETT, RHODE ISLAND
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MANAGEMENT



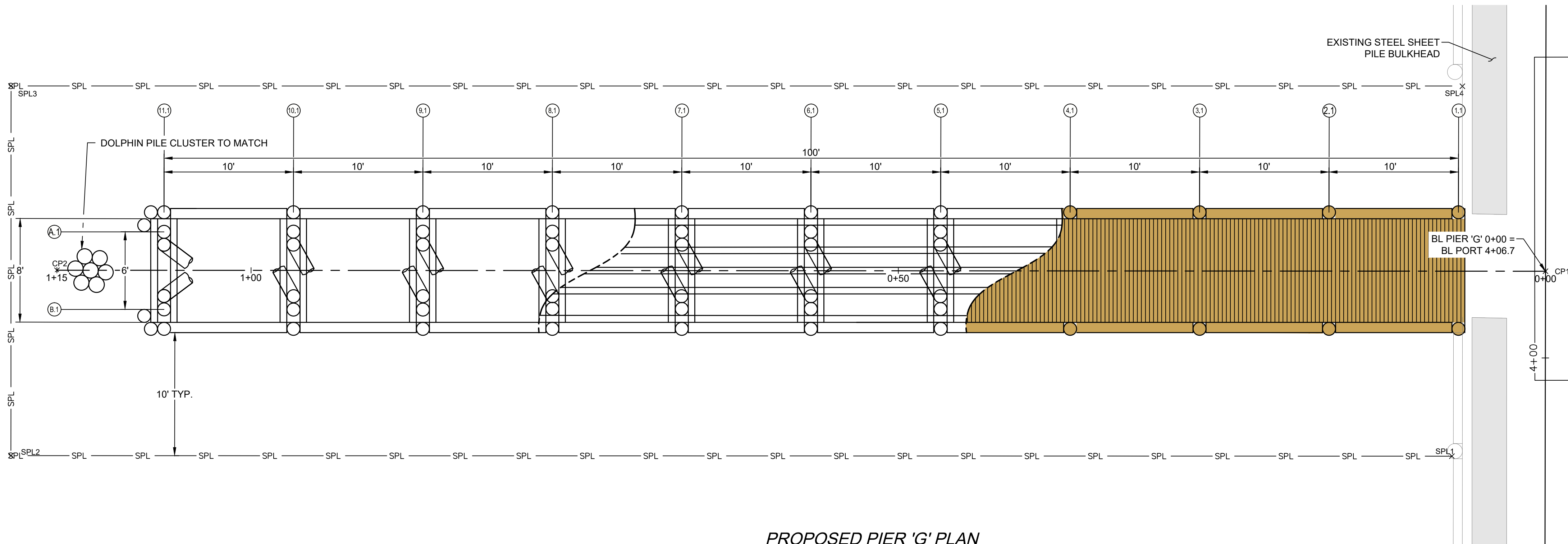
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DESIGNED BY:	JPN
CHECKED BY:	TGD
DRAWN BY:	TJD
APPROVED BY:	TDT
DRAWING TITLE:	EXISTING CONDITIONS PLAN
DRAWING NO.:	C-102
SHEET NO.	4 OF 7



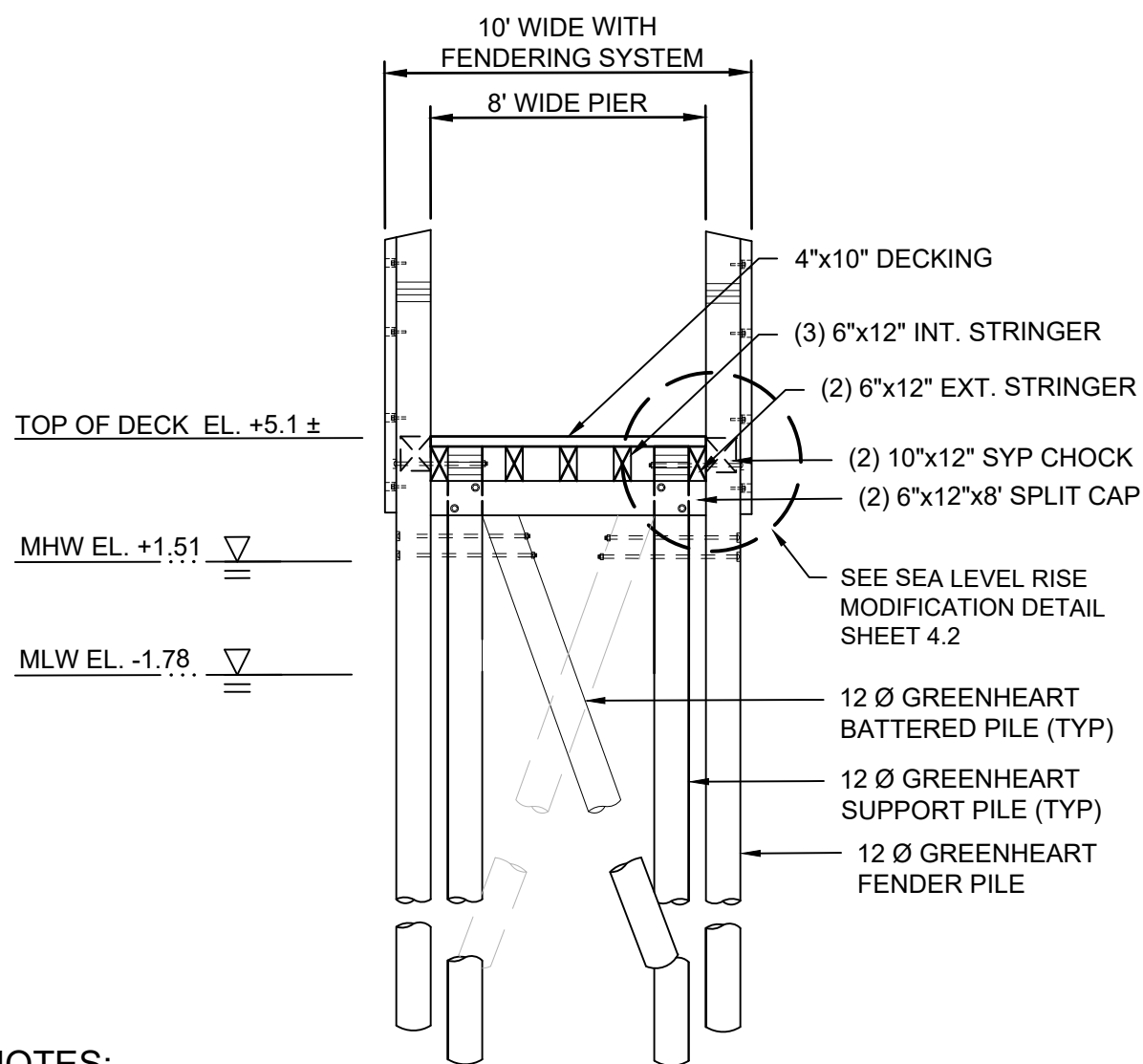
EXISTING PIER 'G' PLAN
SCALE: 3/16"=1'



PIER 'G' EXISTING SECTION
SCALE: 1"=4'



PROPOSED PIER 'G' PLAN
SCALE: 3/16"=1'



PIER 'G' PROPOSED SECTION
SCALE: 1"=4'

NOTES:

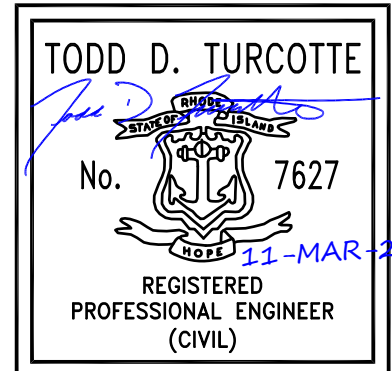
- SUPPORT PILES TO BE LEFT HIGH, ± BOTTOM OF DECKING ELEVATION, FOR FUTURE SEA LEVEL RISE MODIFICATION

Name	Northing	Easting
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CP2	107429.2815	324670.2047
CP1	107358.0647	324760.4995
SP1	107351.3219	324745.9833
SP2	107420.2352	324658.5550
SP3	107442.6562	324676.2141



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

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DRAWN BY: TJD
APPROVED BY: TDT
DRAWING TITLE:

EXISTING &
PROPOSED PIER PLAN

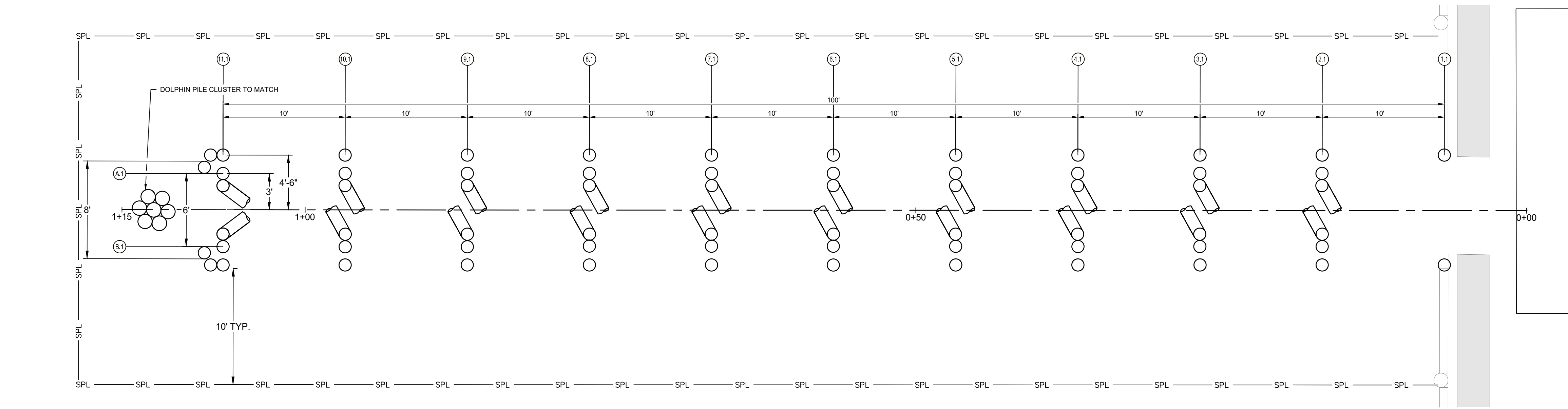
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S-101

SHEET NO. 5 OF 7



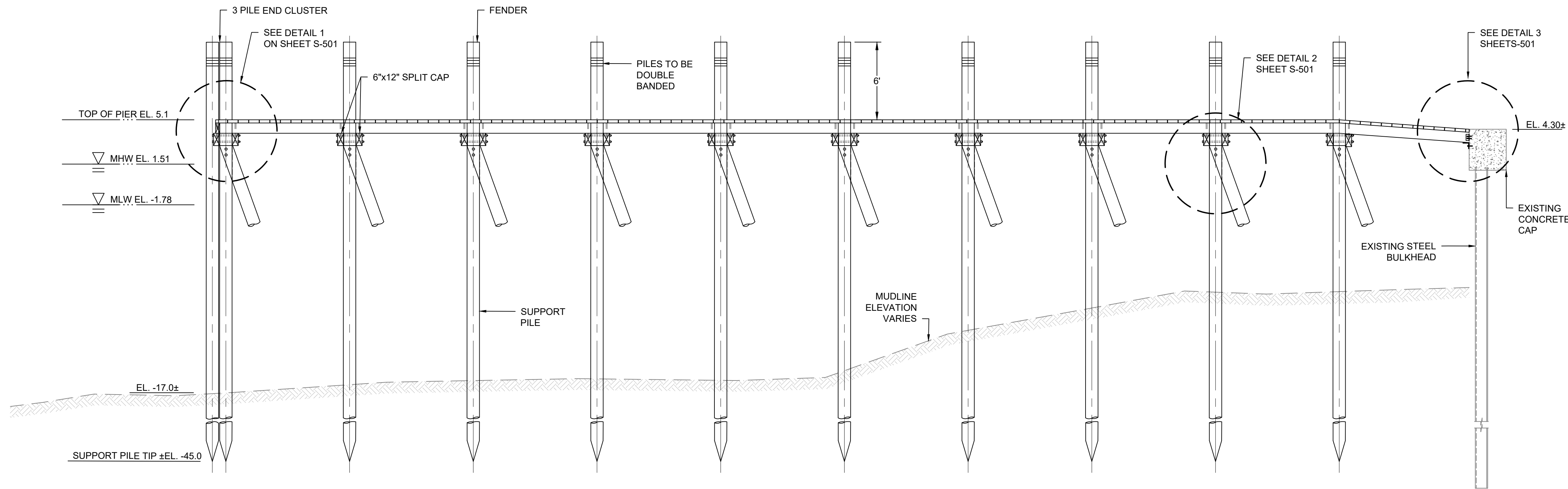
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Y:\0650_23_000\1215101_RUEM_Galilee_Phase 4_100%_Design_02-10-2021_PROPOSED PIER ELEVATION AND PILE PLAN.dwg



PROPOSED PILE PLAN

SCALE: 3/16"=1'

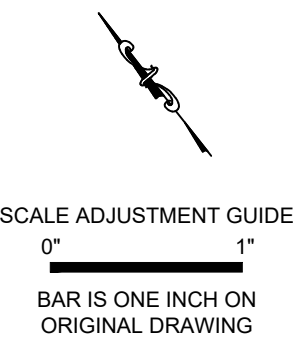


PROPOSED PILE ELEVATION

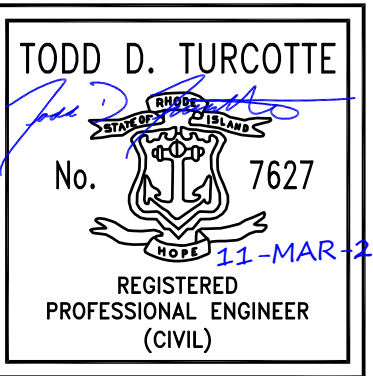
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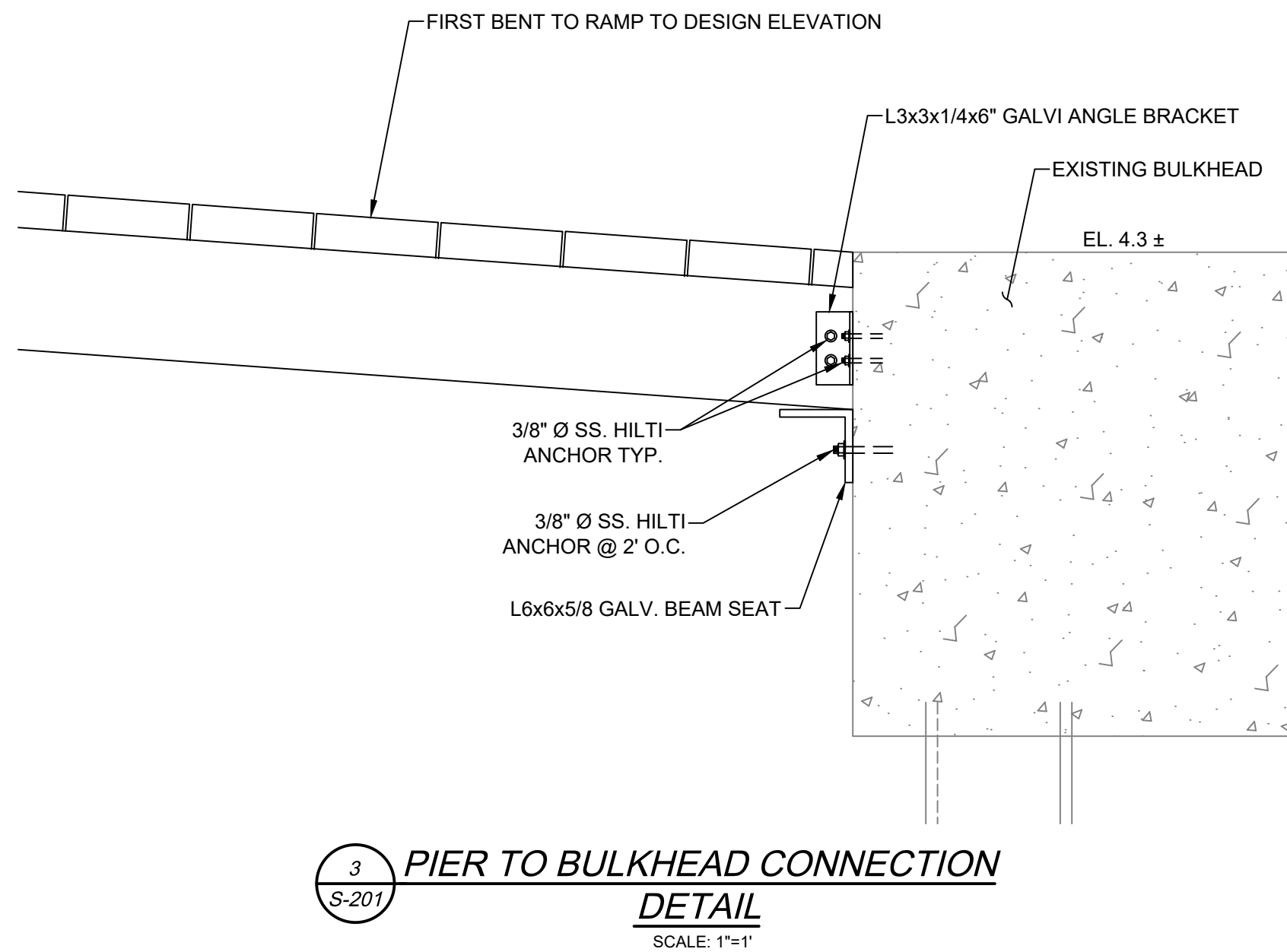
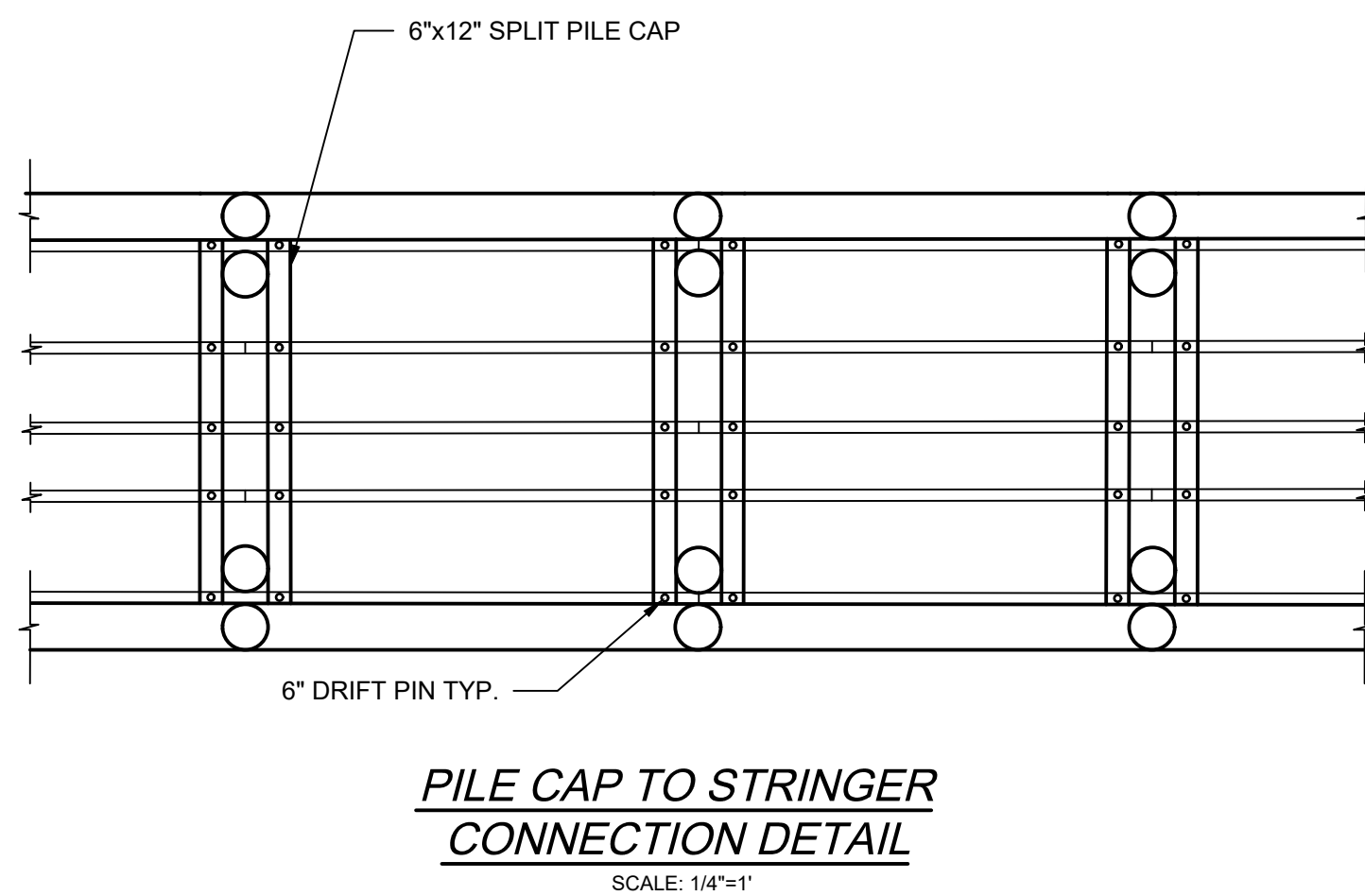
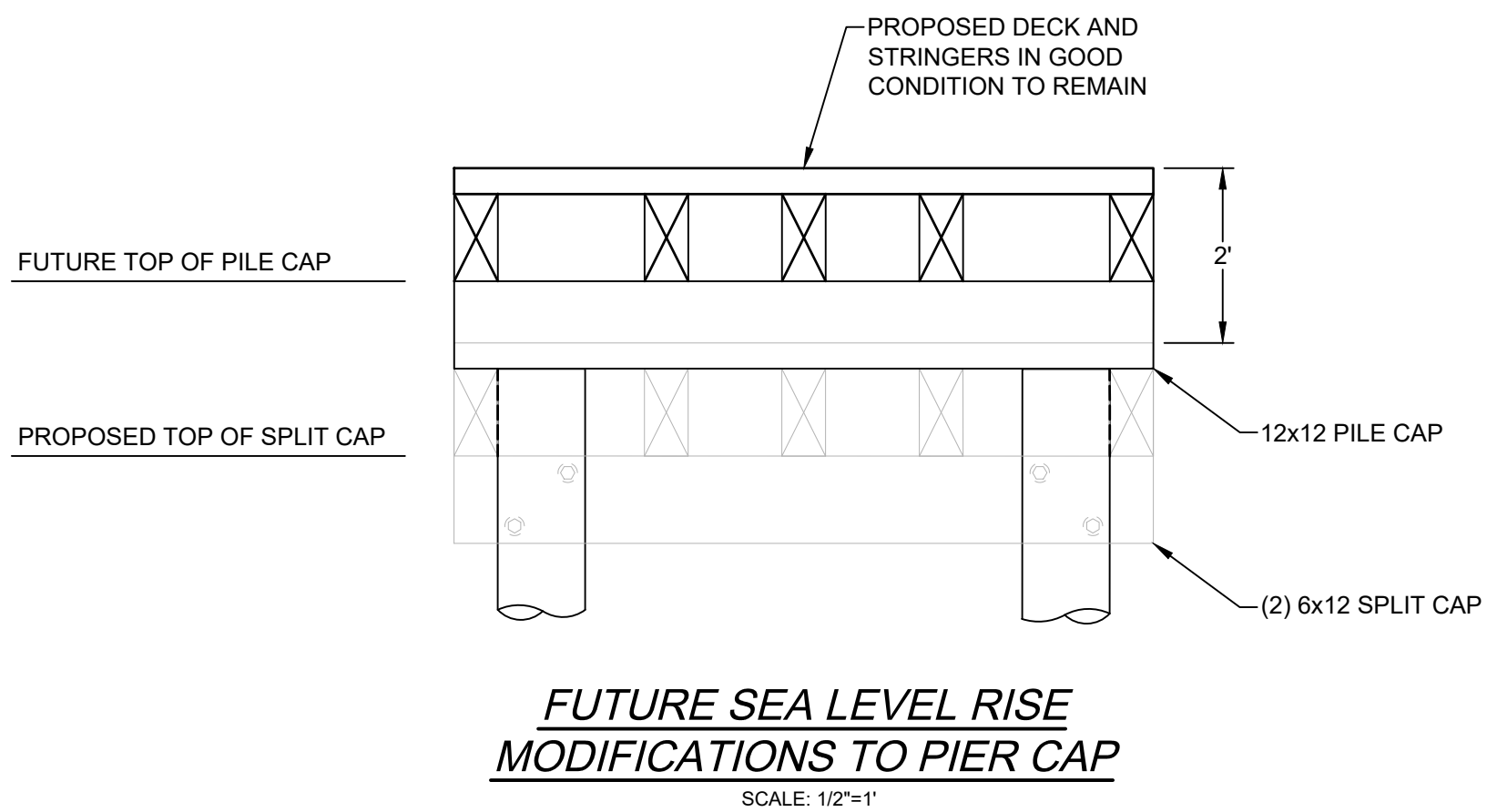
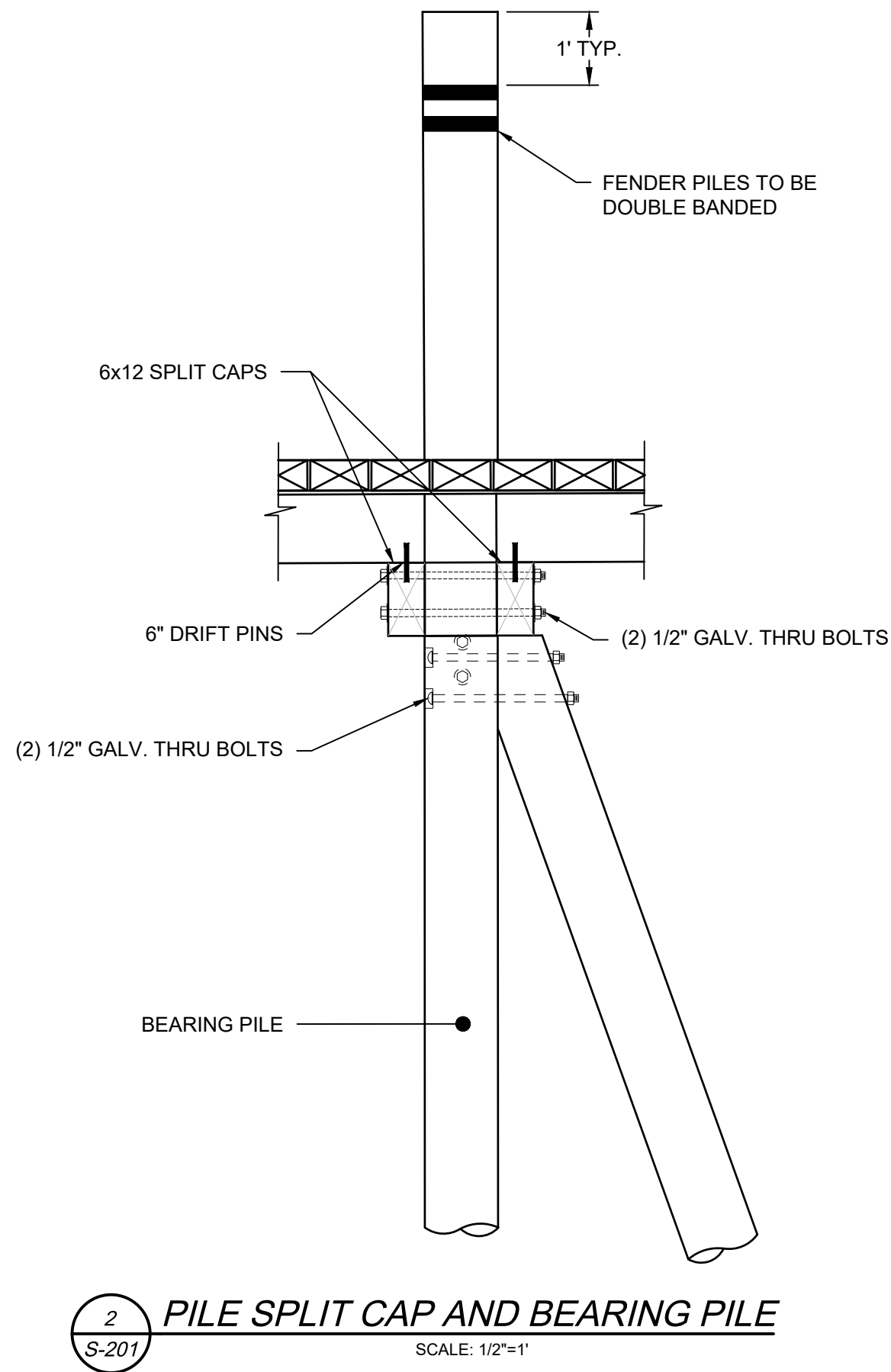
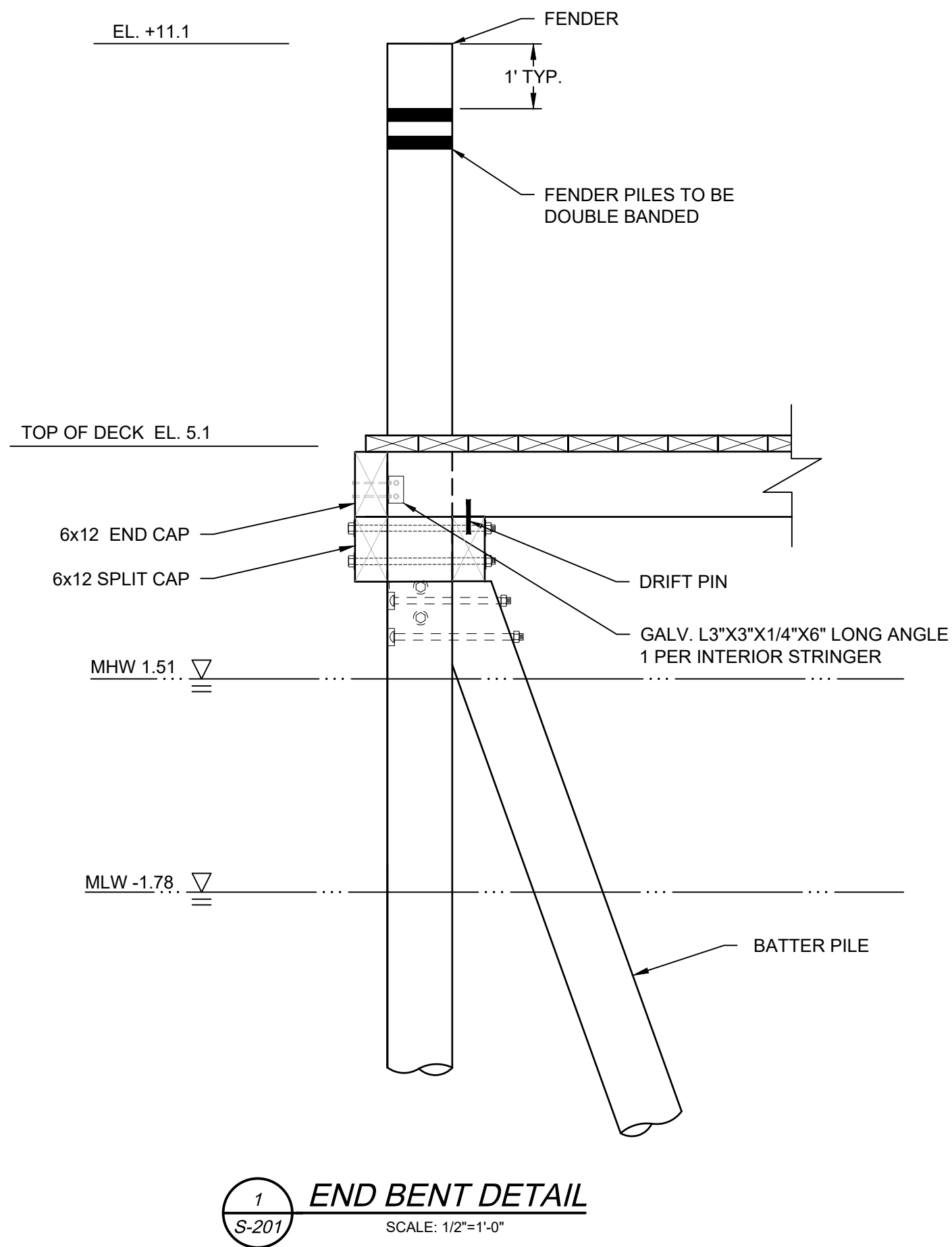
PROPOSED PIER
ELEVATION AND PILE
PLAN

DRAWING NO.:

S-201

SHEET NO. 6 OF 7

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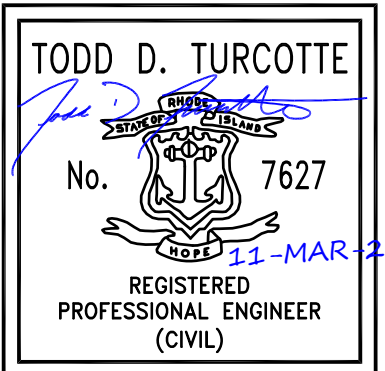


- NOTES:
- ADJACENT STRINGERS TO BE STAGGERED SO THE TERMINAL POINT OF THE STRINGER IS NOT LOCATED AT THE SAME BENT AS AN ADJACENT BENT.
 - BATTER PILES NOT SHOWN FOR CLARITY.



SCALE ADJUSTMENT GUIDE
0" 1"
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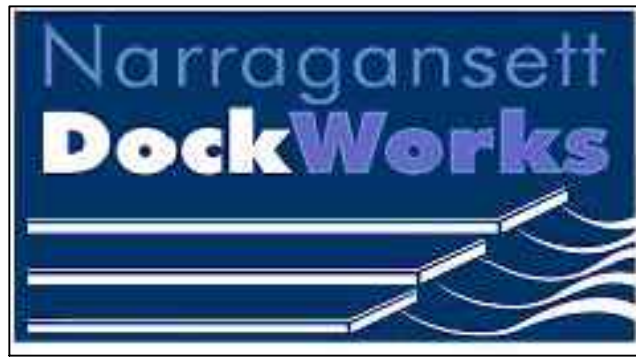
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DRAWING TITLE:

PROPOSED PIER
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DRAWING NO.:
S-501

SHEET NO. 6 OF 7



ISSUED FOR PERMIT
NOT FOR CONSTRUCTION

