



PUBLIC NOTICE

Comment Period Begins: August 20, 2024

Comment Period Ends: September 20, 2024

File Number: NAE-2022-01537

In Reply Refer to: Charles Farris, Regulatory Division

Phone: (978) 318-8336

Email: Charles.n.farris@usace.army.mil

The District Engineer, U.S. Army Corps of Engineers, New England District (USACE, NAE), has received a permit application, file number NAE-2022-01537, to conduct work in waters of the United States from: Prysmian Cables and Systems USA, LLC, One Brayton Point Road, Somerset, MA 02775. This work is proposed in Mount Hope Bay at One Brayton Point Road Somerset, MA 02775. The site coordinates are: Latitude 41.712316° N., Longitude -71.190055° W.

The proposed work would involve mechanically dredging approximately 160,000 cubic yards (cy) of material from shoaled areas totaling 337,000 SF. These areas would be dredged to the proposed depth of -33 feet (ft) at mean lower low water (MLLW) plus two feet of allowable overdredge. The applicant proposes to dispose of the dredged material at one of two open water disposal sites: the Rhode Island Sound Disposal Site (RISDS) or the Cape Cod Bay Disposal Site (CCBDS), as well as beneficial reuse (daily cover at a permitted and licensed landfill) for material not suitable for open ocean disposal. The area of new dredging would support construction of a new berth at the southeast side of the exiting turning basin. Additional materials will be dredged from both the existing turning basin and a portion of the existing private navigational channel in an effort to reach the target depth required of -33 feet MLLW. The applicant would mechanically dredge the sediments using a clamshell bucket from a work barge to transfer the dredged material to scows. This dredged material would be mostly fine grained sediments, like clays and silts.

The applicant also proposes to construct a docking facility which would consist of a 1,500-foot-long by 13-foot-wide pier. The pier would include a conveyor-type system of pulleys to transport manufactured cable along the pier from landside spools onto an offshore cable-laying vessel moored offshore from the pier. Pile couples supporting the pier would be spaced about 60 feet on center, and the bottom of the deck would be set approximately 16 feet above the mean higher high water (MHHW) level, allowing recreational vessels like kayaks or other small crafts to pass underneath. The pier would have affixed lighting for safety. Outward of the pier, seven fixed dolphin structures would be constructed to provide access for mooring and berthing operations. Access to the mooring and berthing system would be provided by aluminum gangways. These aluminum gangways between the dolphins will be supported by a total of five intermediate in-water monopiles. Each fixed dolphin structure would be supported by a ten foot diameter steel pipe monopile. Both the inshore and offshore platforms would contain an approximate 640-square foot relay building and transformer.

The total number of permanent piles for the project is as follows:

- Seventy-six 30-inch diameter piles (including 12 at the inshore platform, 12 at the outshore platform, and 52 for the cable pier);
- Seven 120-inch diameter mooring & berthing monopiles;
- Five 54-inch diameter intermediate walkway monopiles;
- All piles will be driven to a pre determined design depth.

The applicant is also proposing the installation of a navigational aid light within the waters of the Taunton River in Fall River, Massachusetts. The navigation light would be a proposed private aid to navigation (PATON) that has been requested by the local Pilots Association and would provide illumination, wayfinding, and additional safety measures for the marine pilots of vessels utilizing the private Brayton Point navigation channel. This channel traverses the Taunton River east-west to Brayton Point in Somerset, Massachusetts. The private Brayton Point navigation channel intersects the Federal Navigation Project (FNP) channel running north south along the shores of Fall River. The PATON would be installed approximately 300 feet offshore from Fall River near the intersection of the private navigation channel and the federal navigation channel to assist with pilot navigation to the private channel. The PATON would be installed through the mudline on a single 30-inch diameter x 5/8-inch steel pipe monopile and anchored into bedrock.

The purpose of the project is to construct a new submarine cable manufacturing facility and associated required marine infrastructure. The new facility will allow the Applicant to design, manufacture, and deliver submarine cable to support offshore wind projects throughout North and South America. The finished cable will be transported via a newly installed pier and new vessel berth to specially designed cable transport/cable laying vessels to offshore wind project sites.

The proposed work is shown on the enclosed plans titled "Prysmian-Brayton Point, Pier and Dredged Design" on 41 sheets, and dated "14 August 2023."

AUTHORITY

Permits are required pursuant to:

- | | |
|--------------|---|
| <u> x </u> | Section 10 of the Rivers and Harbors Act of 1899 |
| <u> x </u> | Section 404 of the Clean Water Act |
| <u> x </u> | Section 103 of the Marine Protection, Research and Sanctuaries Act. |
| <u> x </u> | Section 14 of the Rivers and Harbors Act of 1899 (33 USC 408) |

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its

reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The USACE is soliciting comments from the public; as well as federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. The USACE will consider all comments received to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an environmental assessment and/or an environmental impact statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

Adjacency and Impact to Federal Navigation Projects

The activities proposed herein may also require permission from the USACE pursuant to 33 U.S.C. 408 if it would alter or temporarily or permanently occupy or use the USACE federally authorized Civil Works project known as Fall River Harbor FNP. The proposed alteration involves dredging in or near the FNP to increase access. The proposed alteration is located adjacent to the FNP near the project shipping channel. A permit pursuant to Sections 10/404/103 shall not be granted until the Section 408 permission is issued. Through this public notice, we are soliciting information necessary to inform the USACE evaluation and review.

ESSENTIAL FISH HABITAT

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). Essential Fish Habitat describes waters and substrate necessary for fish for spawning, breeding, feeding or growth to maturity.

The dredging portion of this project would impact approximately 337,000 SF of EFH. Habitat at this site can be described as subtidal fine-grained habitat. Loss of this habitat may adversely affect species that use these waters and substrate. However, the District Engineer has made a preliminary determination that the site-specific adverse effect will not be substantial. Further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

The dredged material disposal is proposed for disposal at either, Rhode Island Sound Disposal Site or Cape Cod Bay Disposal Site. This is an open water site, which provides EFH. Habitat at this site can be described as fine-grained subtidal habitat. Loss of this habitat may adversely affect species that use these waters and substrate. However, the District Engineer has made a preliminary determination that the site-specific adverse effect will not be substantial. Further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

Dredged Material Disposal Mitigation Discussion

The alternatives considered in the dredged material disposal analysis fall into four general categories: beneficial use, upland disposal, confined disposal, and open-water disposal. The feasibility of disposal alternatives was analyzed relative to the physical and chemical quality of the dredged material, the volume of material to be dredged, the availability of suitable disposal and beneficial use sites, and the cost of disposal. When applicable, the biological quality of the disposal of the material at the disposal site was also used to evaluate the feasibility of the open-water disposal alternative.

Based on the characteristics of the dredged material, the lack of suitable alternate disposal or beneficial use sites and costs, the most feasible, practical, cost-effective and environmentally acceptable alternative for the disposal of dredged materials from the proposed dredging is disposal at one of the two requested disposal sites.

Evaluation of Sediments for Dredging

The Dredged Material Managing Team (DMMT) of the USACE Planning Department provided the applicants with a sampling plan on October 23, 2022. Physical and chemical data were provided to the DMMT on February 10, 2023. Biological data was

provided to the DMMT by the applicant on November 28, 2023. The DMMT provided the final suitability determination to NAE Regulatory on April 23, 2024.

Conclusions of the Evaluation

This determination addressed the suitability of dredged material from the proposed maintenance and new dredging of the Brayton Point project in Somerset, MA for unconfined open water disposal at the (RISDS) or the (CCBDS). The USACE NAE finds that sufficient data has been provided to satisfy the evaluation and testing requirements of Section 103 of the Marine Protection Research and Sanctuaries Act (MPRSA) and Section 404 of the Clean Water Act (CWA). Based on an evaluation of the project site and the material proposed to be dredged, USACE NAE finds the sediment material represented by composite samples 4 and 5, approximately 133,500 cy, is considered suitable for unconfined open water disposal at Rhode Island Sound Disposal Site (RISDS) and/or Cape Cod Bay Disposal Site (CCBDS). However, some material, that which is associated with composite sample locations 1,2, and 3 or approximately 26,500 cy, is considered unsuitable for unconfined open water disposal at RISDS and/or CCBDS. The applicant considered several options for the disposal of the material demonstrated to be unsuitable for open water disposal. They decided on Beneficial Reuse Offsite. This would consist of beneficial reuse as daily cover at a permitted and licensed landfill in the State of Massachusetts.

For Section 103 Permits:

The dredged material has undergone physical, chemical, and biological testing and has satisfied the criteria for unconfined open water disposal of dredged material as specified in Part 227 of the Ocean Dumping Act regulations. It is our preliminary determination that the sediment material represented by composite samples 4 and 5, is considered suitable for unconfined open water disposal at RISDS and/or CCBDS.

For Section 404 Permits: (LIS disposing \leq 25,000 CY, Cape Cod Bay, Rockland)

The dredged material has undergone physical, chemical, and biological analysis. It is our preliminary determination that the material is acceptable for disposal at RISDS and/or CCBDS.

Any permit issued for this project would include special conditions requiring scows to come to a complete stop when disposing of the material at the selected offshore disposal site. There would also be a time of year restriction included as a special condition prohibiting dredging during ecologically sensitive times of year (specifically January 15 through July 15 of any calendar year).

Cape Cod Bay Disposal Site

The Cape Cod Bay Disposal Site was first used in 1971 for the disposal of sediments dredged from Wellfleet Harbor. It has been infrequently used since then for disposal of

dredged material from the coasts of Cape Cod Bay. This disposal site is monitored and managed by the Massachusetts Department of Environmental Management. Studies show that the site is a low energy environment such that sediment deposited at this location will remain within the site's boundaries. Levels of metals in the sediments within the disposal site are slightly above background levels, indicative of the influence of the earlier dredge disposal at the site.

Previous research has shown that areas outside the disposal site have not been found to be affected by sediment deposited within the site. The disposal site is located within the identified limits of the Right Whale Critical Habitat Area.

Rhode Island Sound Disposal Site

The Rhode Island Sound Disposal Site was designated by the Environmental Protection Agency to be usable for disposal of dredged sediments in December 2004. Prior to its site designation, it was selected for temporary use and was employed during 2003-2004 for placement of over 5 million cubic yards of sediment from the Providence River (primarily from the Federal Navigation Project). All sediments disposed at this site have been determined suitable with a project-specific evaluation with an established interagency review process. The site is monitored through the USACE Disposal Area Monitoring System (DAMOS) program. The DAMOS studies show that the site is a low energy environment such that sediments deposited at this location will remain within the site's boundaries. The DAMOS monitoring has also shown that distinct dredged material mounds have been formed at the site. Sediment deposited at the disposal site has not been found to affect areas outside the disposal site.

NATIONAL HISTORIC PRESERVATION ACT

Based on our initial review of the proposed project and coordination with the State Historic Preservation Officer and/or Tribal Historic Preservation Officer(s), no historic properties were identified within the permit area and the area of potential effects. Additional review and consultation to fulfill requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

ENDANGERED SPECIES CONSULTATION

The USACE has reviewed the application for the potential impact on federally listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act (ESA) as amended. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated, or will be operated/used in such a manner that it is not likely to

adversely affect a listed species or their critical habitat. We are coordinating with the National Marine Fisheries Service and/or U.S. Fish and Wildlife Service on listed species under their jurisdiction and the ESA consultation will be concluded prior to the final decision.

OTHER GOVERNMENT AUTHORIZATIONS

The states of Connecticut, Maine, Massachusetts, New Hampshire, and Rhode Island have approved Coastal Zone Management Programs. Where applicable, the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this public notice, we are requesting the state concurrence or objection to the applicant's consistency statement.

The following authorizations have been applied for, or have been, or will be obtained:

- (x) Permit, license or assent from State.
- (x) Permit from local wetland agency or conservation commission.
- (x) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

COMMENTS

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. Individuals submitting comments are advised that all comments received will be available for public review in their entirety and will be considered a matter of public record.

Comments should be submitted in writing by the above date. If you have any questions, please contact Charles Farris, Regulatory Division, at charles.n.farris@usace.army.mil, (978) 318-8336, (800) 343-4789 or (800) 362-4367.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The USACE holds

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File No.NAE-2022-02537

public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly to reach an understanding.

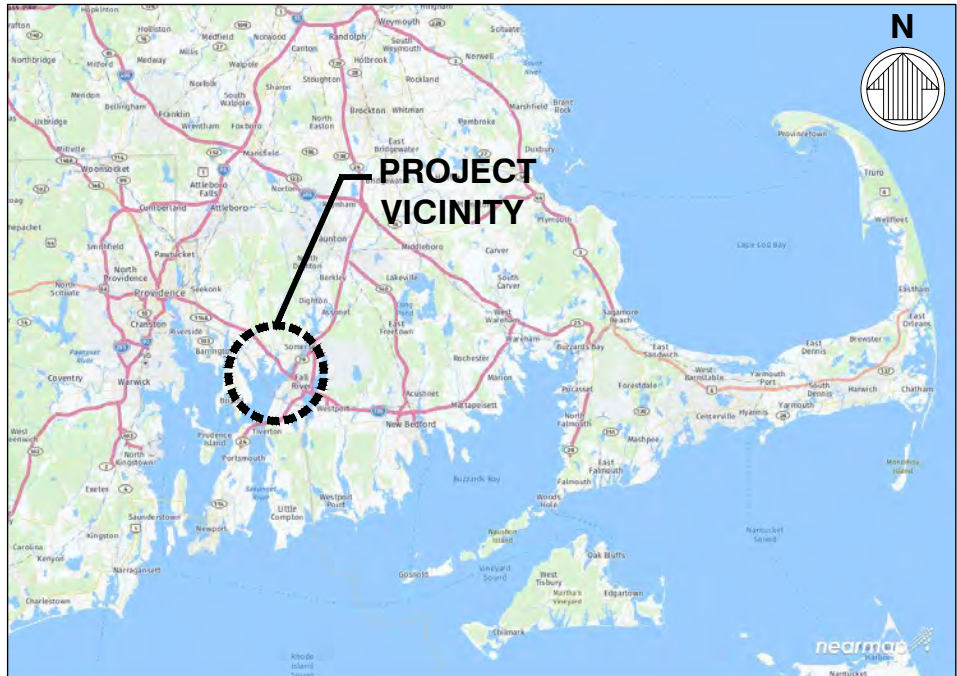
THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

Paul Maniccia

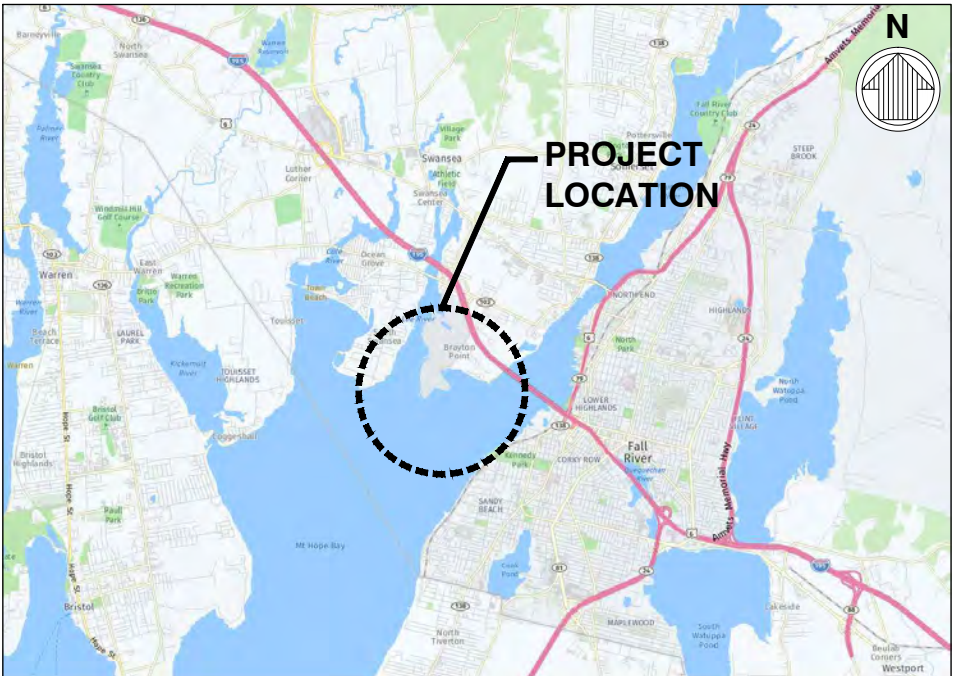
Paul Maniccia
Chief, Massachusetts
Section Regulatory Division

Please contact Ms. Tina Chaisson at bettina.m.chaisson@usace.army.mil or (978) 318-8058 if you would like to be removed from our public notice mailing list.

PRYSMIAN GROUP - BRAYTON POINT
PIER & DREDGE DESIGN
SOMERSET, MASSACHUSETTS
PERMIT SET - NOT FOR CONSTRUCTION



VICINITY MAP
NTS



LOCATION MAP
NTS

INDEX OF DRAWINGS		
INDEX NO.	SHEET NO.	SHEET TITLE
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22	S-111	INSHORE PLATFORM DECK AND PLANK PLAN
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26	S-115	MOORING DOLPHINS DECK PLAN AND CATWALK GENERAL NOTES
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8/14/2023

Signature

PERMIT SET
ISSUED: 2023-08-14
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Prysmian
Group

PRYSMIAN - BRAYTON POINT
PIER & DREDGE DESIGN

TITLE SHEET AND INDEX
OF DRAWINGS

MOFFATT & NICHOL
180 WELLS AVE, SUITE #502
NEWTON, MA 02459

PROFESSIONAL ENGINEERING ASSOC. INC.
P.O. BOX 8836
GREENVILLE, SC 29604

SEAL

Sheet
Reference No.
G-001

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A

E



C

B



1

OFFSET

STIRRUPS AND TIE HOOKS AND BENDS

- DRAWING SCALES SHOWN BASED ON 11"x17" DRAWING

Prysmian
Group



MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MPH	MILES PER HOUR
MSL	MEAN SEA LEVEL
N	NORTH
NA	NOT APPLICABLE
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OF CI	OWNER FURNISHED CONTRACTOR INSTALLED
P/C	PRECAST
PCF	POUNDS PER CUBIC FOOT
PSI	POUND PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PVC	POLYVINYL CHLORIDE
QDC	QUONSET DEVELOPMENT CORPORATION
QTY	QUANTITY
QVD	QUONSET VERTICAL DATUM
R/C	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
REINF	REINFORCEMENT
R/F	REINFORCEMENT
RIDOT	RHODE ISLAND DEPARTMENT OF TRANSPORTATION
RO/RO	ROLL ON/ ROLL OFF
RT	RIGHT
S	SOUTH
SCH	SCHEDULE
SEC	SECOND
SF	SQUARE FOOT
SHT	SHEET
SPA	SPACES
SP T N	STANDARD PENETRATION TEST NUMBER
SQ	SQUARE
SS	STAINLESS STEEL
SSP	STEEL SHEET PILE
STA	STATION STD
STL	STEEL
T	TON
T&B	TOP & BOTTOM
TOC	TOP OF CONCRETE
TEMP	TEMPORARY OR TEMPERATURE
UFC	UNIFIED FACILITIES CRITERIA
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
U.S.	UNITED STATES
VERT	VERTICAL
VLF	VERTICAL LINEAR FEET
W	WEST OR WATER
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WS	WATERSIDE
WT	WALL THICKNESS
YD	YARD
"	SECONDS OR INCH
'	MINUTES, FEET OR PRIME
*	ASTERISK
#	NUMBER OR POUNDS
&	AND
@	AT
ℓ	CENTERLINE
∅	DIAMETER OR PHASE
°	DEGREES
ℙ	PLATE
±	PLUS OR MINUS
%	PERCENT

MLW	MEAN LOW WATER
MLLW	MEAN LOWER LOW WATER
MPH	MILES PER HOUR
MSL	MEAN SEA LEVEL
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NAD	NORTH AMERICAN DATUM
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PSI	POUND PER SQUARE INCH
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*	ASTERISK
#	NUMBER OR POUNDS
&	AND
@	AT
ℓ	CENTERLINE
∅	DIAMETER OR PHASE
°	DEGREES
ℙ	PLATE
±	PLUS OR MINUS
%	PERCENT

[illegible]

**PRYSMIAN - BRAYTON POINT
PIER & DREDGE DESIGN**

GENERAL NOTES AND ABBREVIATION

 MOFFATT & NICHOL 180 WELLS AVE. SUITE #302 NEWTON, MA 02459	Designed by:	CC	Date:	2023-08-14	Rev:	-
	Dwn by:	CM	Dcd by:	FD	M&N Project No.	220757
 PROFESSIONAL ENGINEERING ASSOC., INC. P.O. BOX 8838 GREENVILLE, SC 29604	Reviewed by:	FD	Drawing code:			
	Submitted by:	Drawing Scale:				
MOFFATT & NICHOL			Plot scale: 1:1 (D SHEET)			



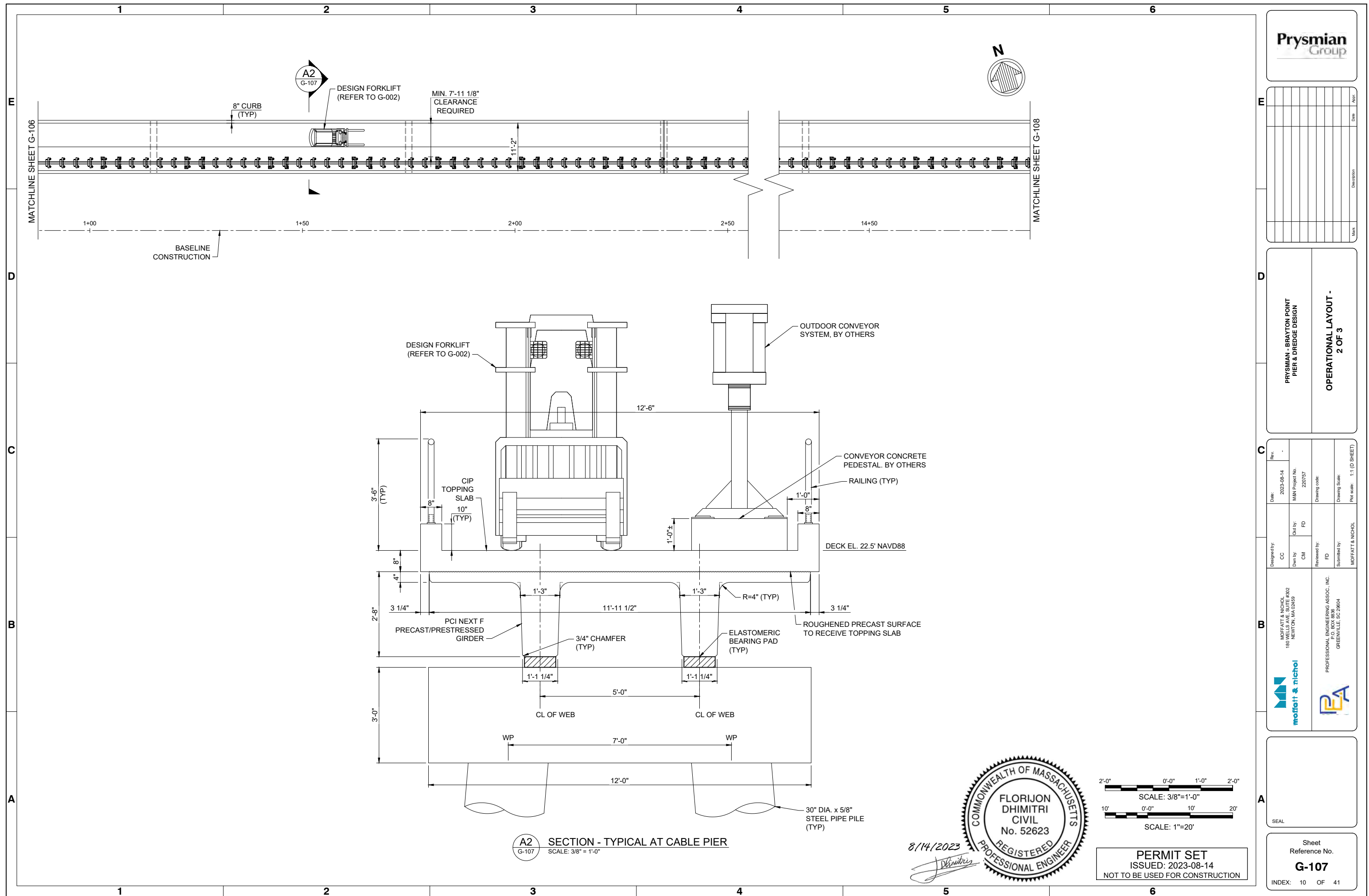
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Reference No.

G-003

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PERMIT SET
ISSUED: 2023-08-14
NOT TO BE USED FOR CONSTRUCTION





NOTE:

1. CONTRACTOR SHALL REVIEW RAMBOLL'S GEOTECHNICAL REPORT DATED DECEMBER 2022, INCLUDING ALL BORING LOGS, PRIOR TO INSTALLATION OF THE PILES.

LEGEND:

- MGB-##
- APPROXIMATE LOCATION OF BORING DRILLED BY RAMBOLL BETWEEN AUGUST 6, 2022 AND AUGUST 30, 2022.

Prysmian Group

Mark	Description	Date	Appr.
	PRICING SET - 60% DESIGN		

PRYSMIAN - BRAYTON POINT
PIER & DREDGE DESIGN

BORING LOCATION PLAN

Rev.	Date:	MAN Project No.	Drawing code:	Drawing Scale:	Plot scale:
-	2023-08-14	220757	FD	1"=200'	1"=10' (D SHEET)

Designed by:	CC	Drawn by:	CM	Reviewed by:	FD	Submitted by:	MOFFATT & NICHOL
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MOFFATT & NICHOL
180 WELLS AVE, SUITE #32
NEWTON, MA 02459

motoffatt & nichol

PROFESSIONAL ENGINEERING ASSOC., INC.
P.O. BOX 8838
GREENVILLE, SC 29604

PEA

SEAL

Sheet
Reference No.

B-101

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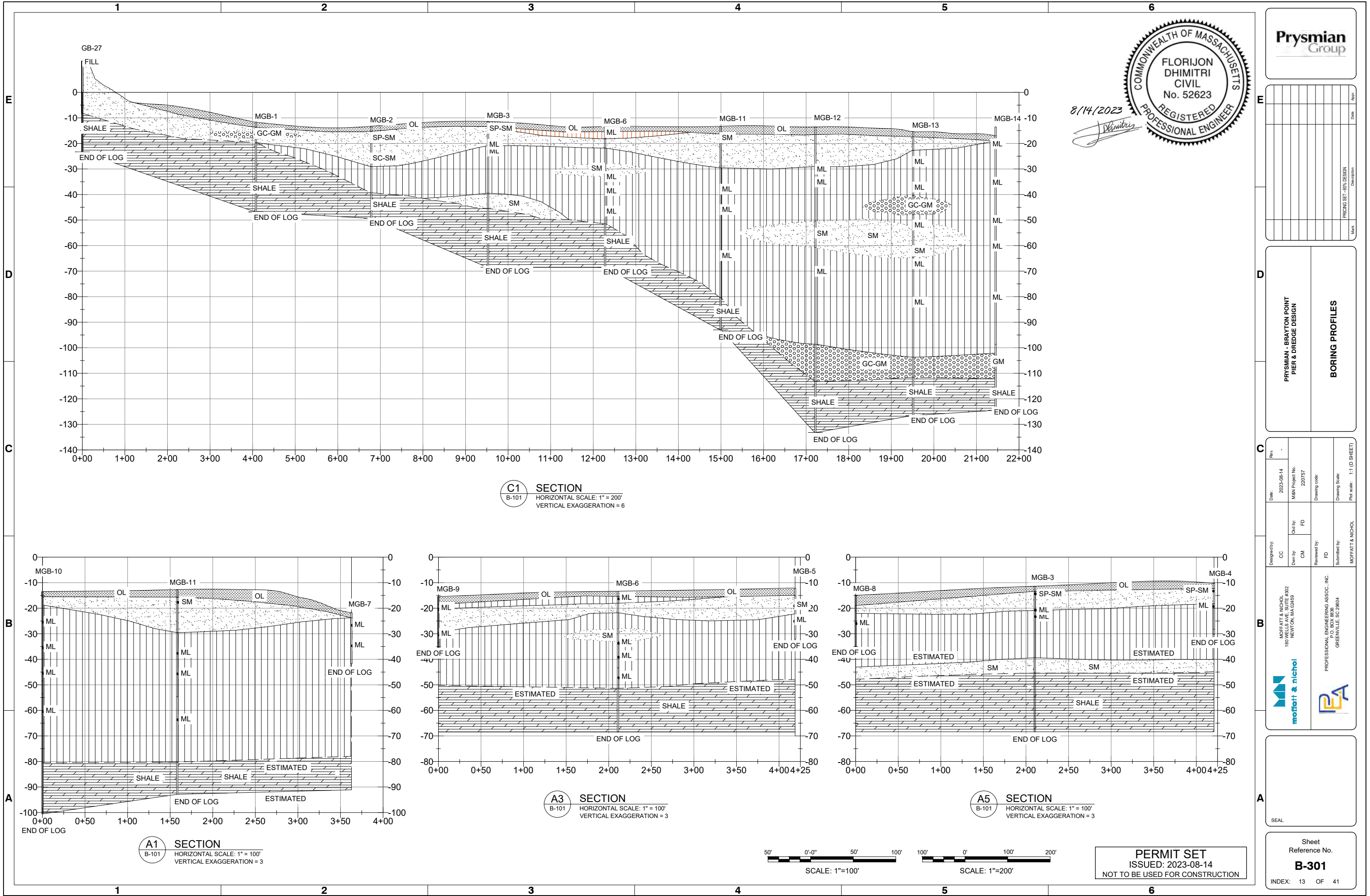


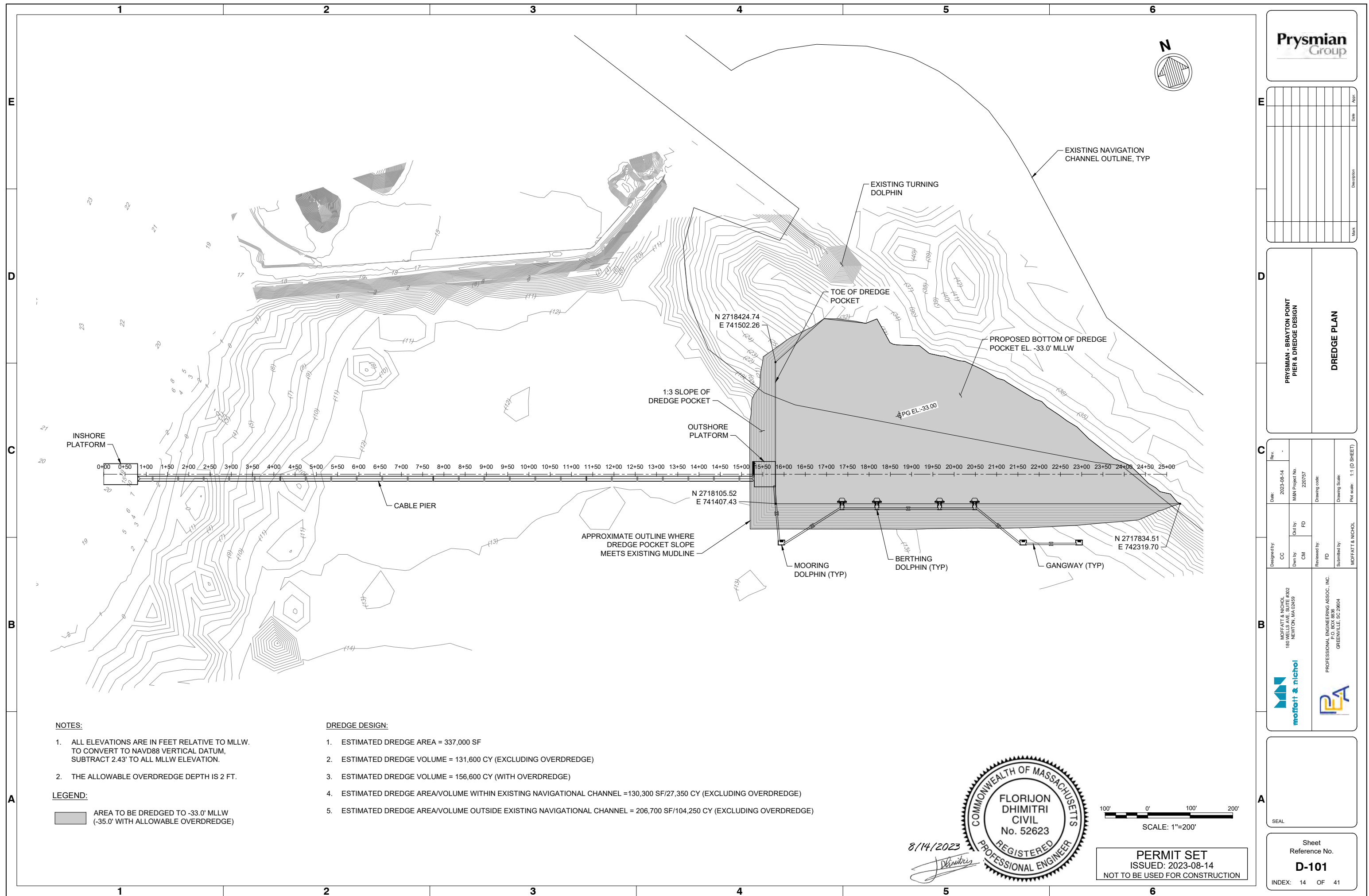
8/14/2023

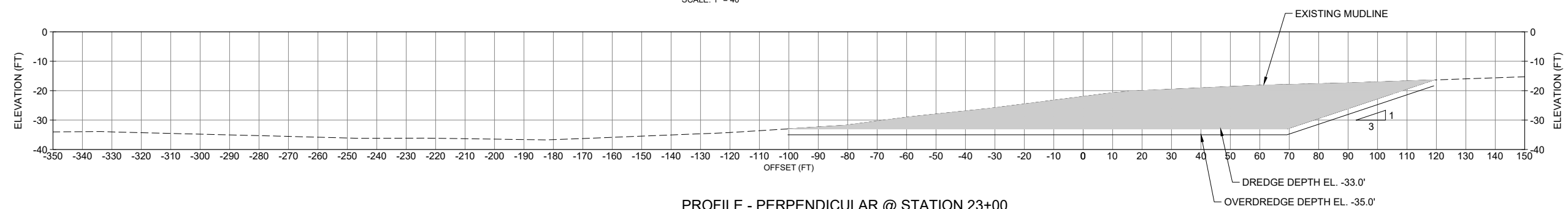
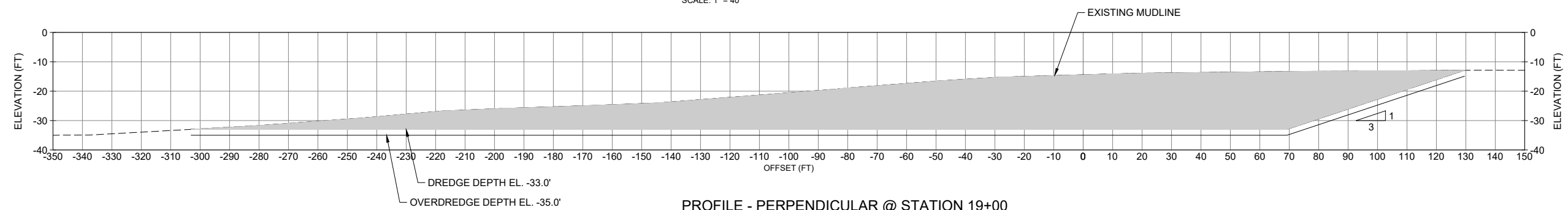
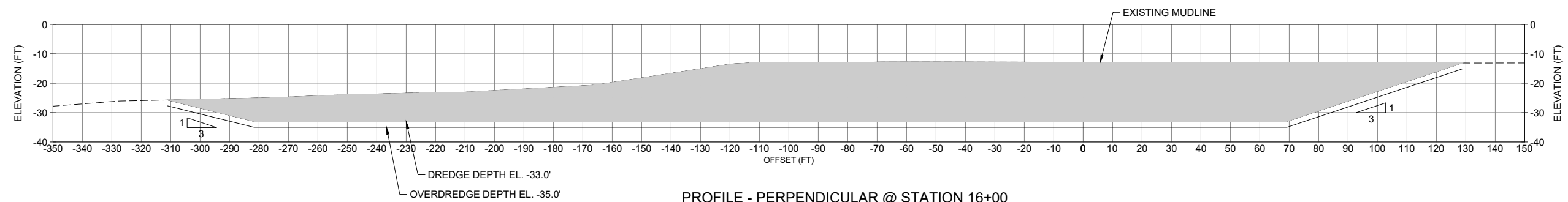
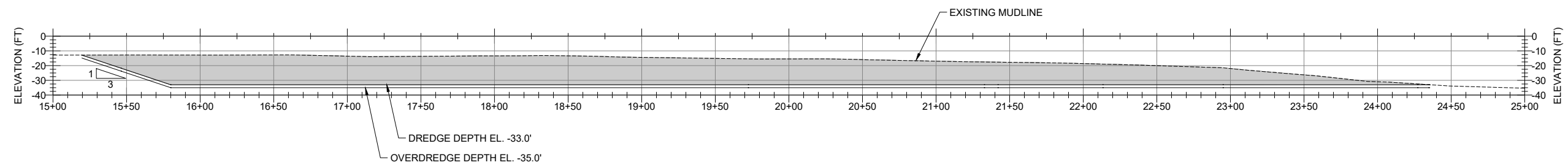
Florijon Dhimitri

100' 0' 100' 200'
SCALE: 1"=200'

PERMIT SET
ISSUED: 2023-08-14
NOT TO BE USED FOR CONSTRUCTION






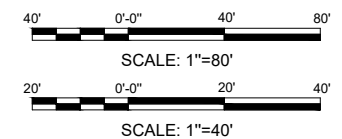


NOTES:

1. ALL ELEVATIONS ARE IN FEET RELATIVE TO MLLW.
2. THE ALLOWABLE OVERDREDGE DEPTH IS 2 FT.

LEGEND:



 AREA TO BE DREDGED TO -33.0' MLLW
(-35.0' WITH ALLOWABLE OVERDREDGE)



PERMIT SET
ISSUED: 2023-08-14
NOT TO BE USED FOR CONSTRUCTION

[illegible]

DREDGE PROFILE AND SECTIONS

 moffatt & nichol MOFFATT & NICHOL 180 WELLS AVE. SUITE #302 NEWTON, MA 02459	Designed by:	CC	Date:	2023-08-14	Rev.:	-
	Dwn by:	CM	Qtd by:	FD	M&N Project No.	220757
	Reviewed by:			Drawing code:		
	Submitted by:			Drawing Scale:		
 PROFESSIONAL ENGINEERING ASSOC., INC. P.O. BOX 8836 GREENVILLE, SC 29604			Moffatt & Nichol			Plot scale: 1:1 (D SHEET)

Sheet
Reference No.
D-301

CONCRETE AND REINFORCING STEEL

1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301, UNLESS OTHERWISE NOTED.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT, EXPOSURE CLASSES C2 AND F3.
3. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315.
4. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
 - A. CONCRETE STRENGTH

1	CAST-IN-PLACE CONCRETE: - AT TYPICAL LOCATIONS - AT CABLE PIER CIP SLAB	5000 PSI (MIN AT 28 DAYS) 6000 PSI (MIN AT 28 DAYS)
2	CAST-IN-PLACE NON-SHRINK GROUT (PILE PLUG, PILE BLOCK-OUT, & BENT CAP CLOSURES)	5,000 PSI (MIN AT 28 DAYS)
3	PRECAST CONCRETE AT CABLE PIER NEXT BEAM	6,000 PSI (MIN AT 28 DAYS)
4	NON-METALLIC AND NON-SHRINK GROUT	8,000 PSI (MIN AT 28 DAYS)

- B. REINFORCING STEEL - REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A 615, UNLESS OTHERWISE NOTED. REINFORCING SHALL HAVE THE FOLLOWING CHARACTERISTICS:

1	REINFORCING STEEL AND DOWELS	ASTM A 615, GRADE 60, EPOXY COATED
2	REINFORCING STEEL AND DOWELS (PILE PLUGS ONLY)	ASTM A 615, GRADE 80, EPOXY COATED
3	SPIRALS, TIES	ASTM A 1064, EPOXY COATED
4	PRESTRESSING STEEL (7-WIRE LOW RELAXATION STRANDS)	ASTM A416, GRADE 270

- C. AIR ENTRAINMENT SHALL BE PROVIDED IN ACCORDANCE WITH ACI 301, EXPOSURE CLASS F3.
 - D. ALL CONCRETE SHALL INCLUDE CALCIUM NITRITE CORROSION INHIBITOR PER THE SPECIFICATION.
 - E. TOPPING SLAB CONCRETE MIX SHALL INCLUDE A SHRINKAGE REDUCING ADMIXTURE PER THE SPECIFICATIONS.
5. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/4", 45° CHAMFERS UNLESS OTHERWISE NOTED.
6. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3" UNLESS OTHERWISE NOTED.
7. ALL REINFORCING BAR SPLICES SHALL BE IN ACCORDANCE WITH THE SPLICE SCHEDULE AND IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE NOTED. SPLICES SHALL BE STAGGERED AND LOCATED AWAY FROM POINTS OF MAXIMUM TENSILE STRESS.

SPLICE SCHEDULE

BAR SIZE	LAP SPLICE LENGTHS (EPOXY COATED)	
	VERTICAL BARS & BEAM BOTTOM BARS	ALL OTHER BARS
#3	17"	22"
#4	22"	29"
#5	28"	36"
#6	33"	43"
#7	49"	63"
#8	55"	72"
#9	63"	81"
#10	70"	91"
#11	78"	101"

8. ALL JOINTS BETWEEN CAST-IN-PLACE CONCRETE AND HARDENED CONCRETE SHALL BE CLEAN WITH A ROUGHENED SURFACE OF 1/4" AMPLITUDE AND COATED WITH AN APPROVED BONDING COMPOUND. PRECAST PANELS SHALL COME WITH THE ROUGHENED SURFACE AT THE PLANNED JOINTS.
9. EXPOSED FINISHED CONCRETE SURFACES (HORIZONTAL) SHALL BE ROUGH BROOM FINISH.
10. EPOXY COATED REINFORCING STEEL SHALL COMPLY WITH ASTM A775.
11. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE REVIEW, CONFIRMATION, AND FABRICATION, SHIPPING, SAFE HANDLING OF THE PRECAST MEMBERS DURING INSTALLATION. CONTRACTOR TO SUBMIT A WORK PLAN TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION OUTLINING SHIPPING AND HANDLING OPERATIONS, INCLUDING PICK POINTS OF THE PRECAST MEMBERS ENSURING THAT NO CRACKING OCCURS THROUGHOUT THE HANDLING AND INSTALLATION PHASE.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. THE DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
2. STEEL FABRICATOR SHALL FURNISH ALL NUTS, BOLTS, WASHERS, ETC. NECESSARY FOR ERECTION PLUS 5% OVERAGE. FABRICATOR SHALL BE RESPONSIBLE FOR PROVIDING LIFTING LUGS AND TEMPORARY BRACING FOR TRANSPORTATION, LIFTING AND STORAGE. FABRICATOR TO PROVIDE COMPLETE BILL OF MATERIALS.
3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

A	STRUCTURAL STEEL PIPE PILES	ASTM A252, GRADE 3 MODIFIED, COATED (FY= 50 KSI)
B	STRUCTURAL STEEL PIPE	ASTM A252, GRADE 3 MODIFIED, GALV (FY= 50 KSI)
C	STRUCTURAL CARBON STEEL	ASTM A572 & A992, GALV UON
D	STEEL PLATES	ASTM A572, GRADE 50, GALV
E	STAINLESS STEEL SHAPES	ASTM A276, TYPE 316L
F	STAINLESS STEEL PLATES	ASTM A240, TYPE 316L
G	STAINLESS STEEL PIPE SLEEVES	ASTM A269 TYPE 316L
H	ANCHOR RODS	F1554, GRADE 55, GALV UON
I	BOLLARD ANCHOR RODS	PER MANUFACTURER'S RECOMMENDATION
J	STRUCTURAL BOLTS	ASTM F3125, GRADE A325, GALV
K	STAINLESS STEEL BOLTS	ASTM F593, ALLOY GROUP 2 TYPE 316L
L	NUTS	ASTM A563, GALV
M	STAINLESS STEEL NUTS	ASTM F594 TYPE 316L
N	WASHER	ASTM F436, GALV
O	HEADED WELDED STUDS	ASTM A29, AWS D1.1 CLAUSE 7
P	FENDER SYSTEM BOLTS	ASTM F3125, GRADE A325, GALV
Q	FENDER SYSTEM NUTS	ASTM A563, GALV
R	MOORING HARDWARE	ASTM A27, GRADE 65-35
S	HSS MEMBERS	ASTM A500, GRADE B, COATED
T	PIPES (NON-STRUCTURAL)	ASTM A53, GRADE B, GALV
U	STAINLESS STEEL LEVELING BOLTS	ASTM F593, ALLOY GROUP 2 TYPE 316L

4. ALL EXPOSED CARBON STRUCTURAL STEEL (EXCEPT AS INDICATED) SHALL BE HOT-DIP GALVANIZING. SEE SPECIFICATIONS.
5. SPlicing OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
6. ALL BOLTS BE NEW, HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM F2329, UON. ALL BOLTS SHALL INCLUDE COMPATIBLE WASHERS.
5. ALL DAMAGED GALVANIZED FINISH SHALL BE FIELD TREATED WITH TWO COATS OF HIGH ZINC OXIDE PAINT, COLD GALVANIZING COMPOUNDS, OR APPROVED EQUAL CONFORMING TO ASTM A780. ALL EXPOSED THREADED SURFACES SHALL BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION.
6. WELDING SHALL CONFORM TO THE CURRENT AWS D1.1 "STRUCTURAL WELDING CODE-STEEL".
7. WELDS SHALL BE MADE BY CERTIFIED WELDERS AND WELDING OPERATORS WHO HAVE BEEN PREVIOUSLY QUALIFIED BY TESTS AS PRESCRIBED IN THE CURRENT AWS D1.1 "STRUCTURAL WELDING CODE-STEEL." PROOF OF CERTIFICATION SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL BEFORE ANY WELDING IS PERMITTED TO BEGIN.
8. ALL WELDING OF CARBON STEEL SHALL USED E70 SERIES LOW HYDROGEN ELECTRODES.
9. ALL WELDING OF STAINLESS STEEL TO STAINLESS STEEL SHALL USE E308 OR E316 ELECTRODES DEPENDING ON BASE MATERIAL.
10. ALL WELDING OF STAINLESS STEEL TO CARBON STEEL SHALL USE E309 ELECTRODES.
11. EACH PIECE TO BE CLEARLY MARKED WITH MARK NUMBER AS PER DETAIL DRAWING.

COMPONENTS TO HOT-DIP GALVANIZED:

- A. ALL BOLTS, NUTS, WASHERS, COUPLERS, AND MISCELLANEOUS HARDWARE.
- B. MISCELLANEOUS STEEL.

COMPONENTS TO BE COATED:

- A. STEEL PIPE PILES
- B. FIELD WELDS
- C. BOLLARDS

POST-INSTALLED ANCHOR NOTES:

1. INSTALL TEST PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) AND MOST RECENT EDITION OF ACI 355.4.
2. PRIOR TO INSTALLATION, CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR PRODUCT-SPECIFIC INSTALLATION TRAINING AND LETTER SHALL BE SUBMITTED TO THE ENGINEER INDICATING TRAINING HAS TAKEN PLACE.
3. DRILLED HOLES SHALL HAVE ROUGHENED INTERIOR SURFACE AS PER MANUFACTURER'S RECOMMENDATIONS.
4. CONTRACTOR SHALL LOCATE REINFORCEMENT PRIOR TO DRILLING ANCHOR HOLES, SO AS NOT TO DAMAGE THE REINFORCING STEEL, UNLESS OTHERWISE NOTED. TOLERANCE OF THE INSTALLED SYSTEM SHALL BE ACCOUNTED FOR IN ANY SHIFTING OF COMPONENTS.
5. SUBMIT MANUFACTURER'S DATA SHEET AND RECOMMENDATIONS FOR APPROVAL.
6. DESIGN BOND STRENGTH IS BASED ON CRACKED CONCRETE, ACI 355.4 TEMPERATURE CATEGORY B, AND INSTALLATIONS INTO DRY HOLES DRILLED INTO CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS USING A DRILL BIT QUALIFIED BY THE MANUFACTURER.
7. THE FIRST 10 INSTALLATIONS SHALL BE SPECIAL INSPECTED DURING INSTALLATION BY A CERTIFIED ADHESIVE ANCHOR INSTALLER.

FOUNDATION

1. PILES SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATION SPECIFIED ON SHEET ##### AND MINIMUM COMPRESSION CAPACITY SPECIFIED ON SHEET S-501 WITHOUT OVERSTRESSING THE PILE. PILES SHALL BE DRIVEN WITH A PILE DRIVING SYSTEM OF SUFFICIENT CAPACITY AS DETERMINED BY A WAVE EQUATION ANALYSIS AND DRIVABILITY STUDY THAT SHALL DEMONSTRATE THE ADEQUACY OF THE HAMMER. CONTRACTOR TO SUBMIT DRIVABILITY STUDY FOR APPROVAL PRIOR TO PROCUREMENT OF PILES.
2. NO TEST PILES (PDA PILES) SHALL BE DRIVEN PRIOR TO PLACING ORDER FOR PRODUCTION PILES WITHOUT ENGINEERS WRITTEN APPROVAL AND ACCEPTANCE OF CONTRACTOR'S WORK PLAN.
3. JETTING OF PILES SHALL NOT BE ALLOWED.
4. THE CONTRACTOR SHALL COORDINATE THE PILE DRIVING SCHEDULE SO AS NOT TO INTERFERE WITH OR BE DETRIMENTAL TO THE CONCRETE PLACEMENT AND CURING OPERATIONS.
5. COAT PILE PER SPECIFICATION SECTION 09 96 7 AND AS INDICATED ON SHEET #####.

[illegible]

**PRYSMIAN - BRAYTON POINT
PIER & DREDGE DESIGN**

STRUCTURAL NOTES

Designed by:	CC	Date:	2023-08-14	Rev.	-
Dwn by:	CM	Ord by:	M&N Project No.		
		FD	220757		
Reviewed by:	FD	Drawing code:			
Submitted by:		Drawing Scale:			
MOFFATT & NICHOL			Plot scale: 1:1 (D SHEET)		

MOFFATT & NICHOL
WELLS AVE, SUITE #302



moffatt & nichol

PROFESSIONAL ENGINEERING ASSOC., INC.
P.O. BOX 8836



SEARCH

Sheet
Reference No.

S-001

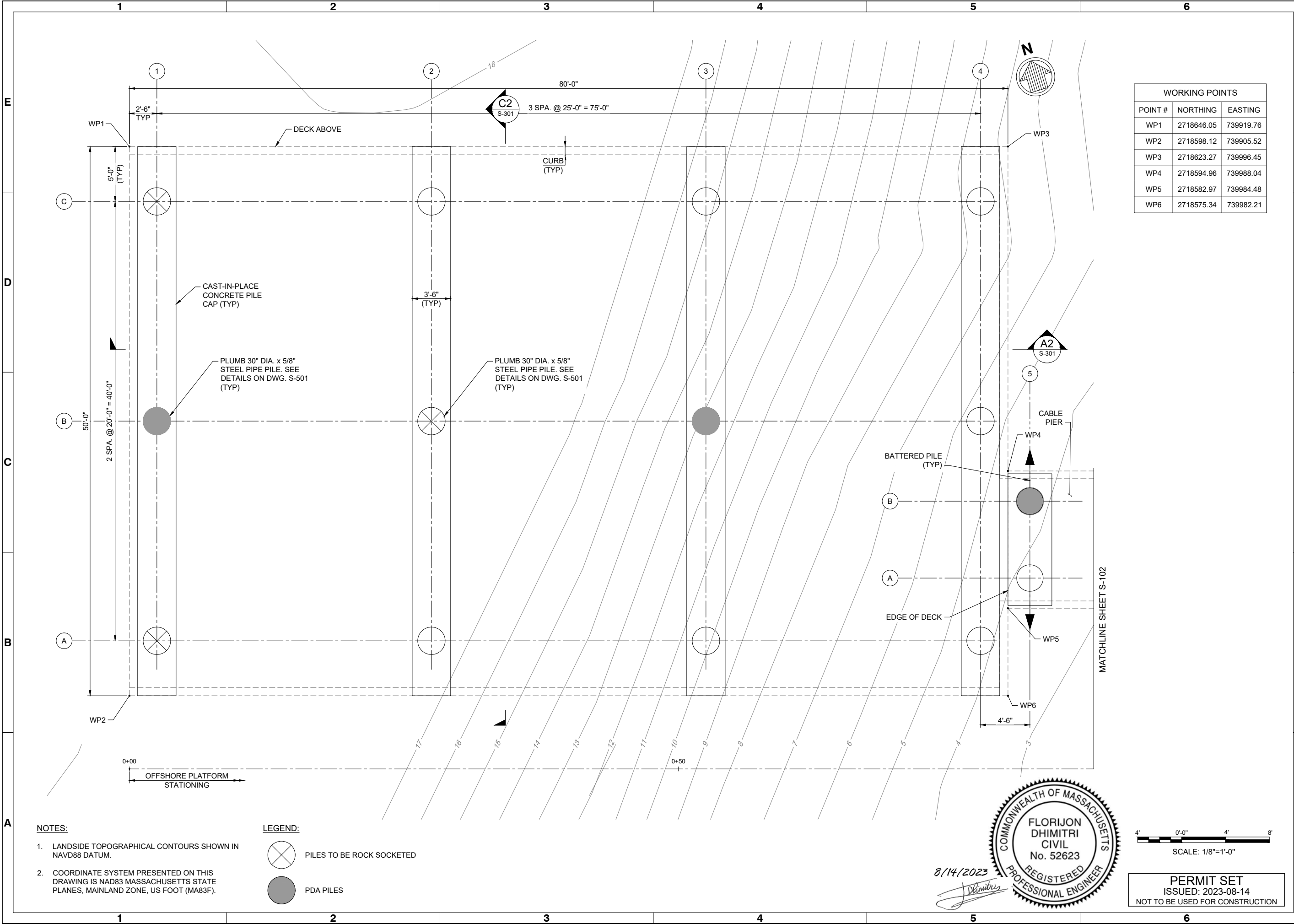
INDEX: 16 OF 41



8/14/2023

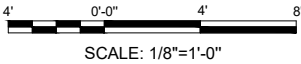
Dimitris

PERMIT SET
ISSUED: 2023-08-14
NOT TO BE USED FOR CONSTRUCTION



- NOTES:
- LANDSIDE TOPOGRAPHICAL CONTOURS SHOWN IN NAVD88 DATUM.
 - COORDINATE SYSTEM PRESENTED ON THIS DRAWING IS NAD83 MASSACHUSETTS STATE PLANES, MAINLAND ZONE, US FOOT (MA83F).

- LEGEND:
- PILES TO BE ROCK SOCKETED
 - PDA PILES



PERMIT SET
ISSUED: 2023-08-14
NOT TO BE USED FOR CONSTRUCTION

WORKING POINTS		
POINT #	NORTHING	EASTING
WP1	2718646.05	739919.76
WP2	2718598.12	739905.52
WP3	2718623.27	739996.45
WP4	2718594.96	739988.04
WP5	2718582.97	739984.48
WP6	2718575.34	739982.21

Rev.	Date	By	Description

PRYSMIAN - BRAYTON POINT
PIER & DREDGE DESIGN

INSHORE PLATFORM
PILE PLAN

Designed by: CC	Drawn by: CM	Reviewed by: FD	Submitted by: MOFFATT & NICHOL
Date: 2023-08-14	MAN Project No. 220757	Drawing code: 	Drawing Scale:

Per scale: 1"=10' (SHEET)

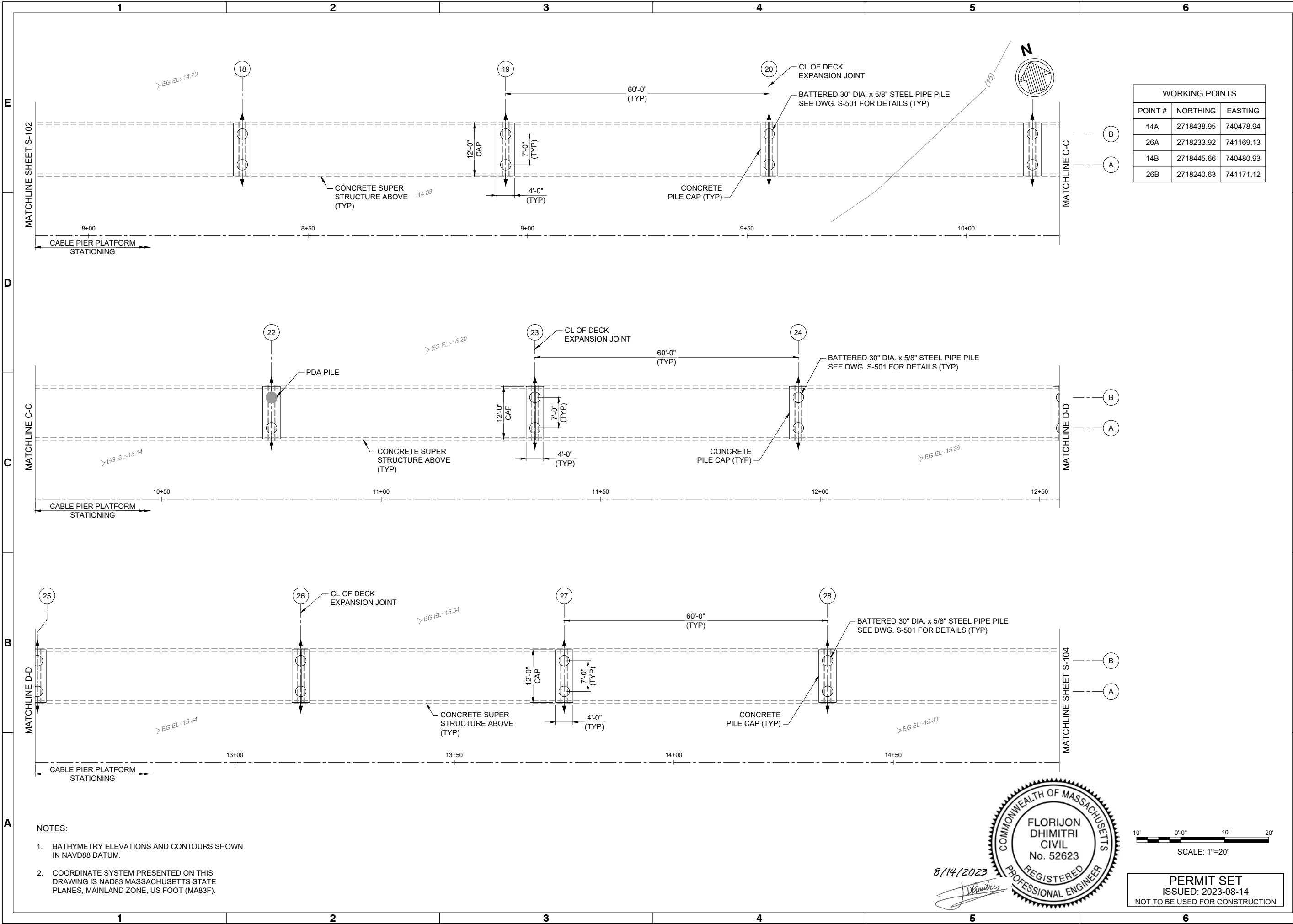
MOFFATT & NICHOL
180 WELLS AVE, SUITE #32
NEWTON, MA 02459

PROFESSIONAL ENGINEERING ASSOC., INC.
P.O. BOX 8836
GREENVILLE, SC 29604

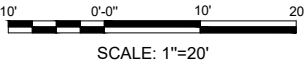
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Sheet
Reference No.
S-101

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- NOTES:
- BATHYMETRY ELEVATIONS AND CONTOURS SHOWN IN NAVD88 DATUM.
 - COORDINATE SYSTEM PRESENTED ON THIS DRAWING IS NAD83 MASSACHUSETTS STATE PLANES, MAINLAND ZONE, US FOOT (MA83F).



PERMIT SET
ISSUED: 2023-08-14
NOT TO BE USED FOR CONSTRUCTION

WORKING POINTS		
POINT #	NORTHING	EASTING
14A	2718438.95	740478.94
26A	2718233.92	741169.13
14B	2718445.66	740480.93
26B	2718240.63	741171.12

Rev.	Date	Appr.	Date	Description	Mark

PRYSMIAN - BRAYTON POINT
PIER & DREDGE DESIGN

CABLE PIER PILE PLAN
- 2 OF 2

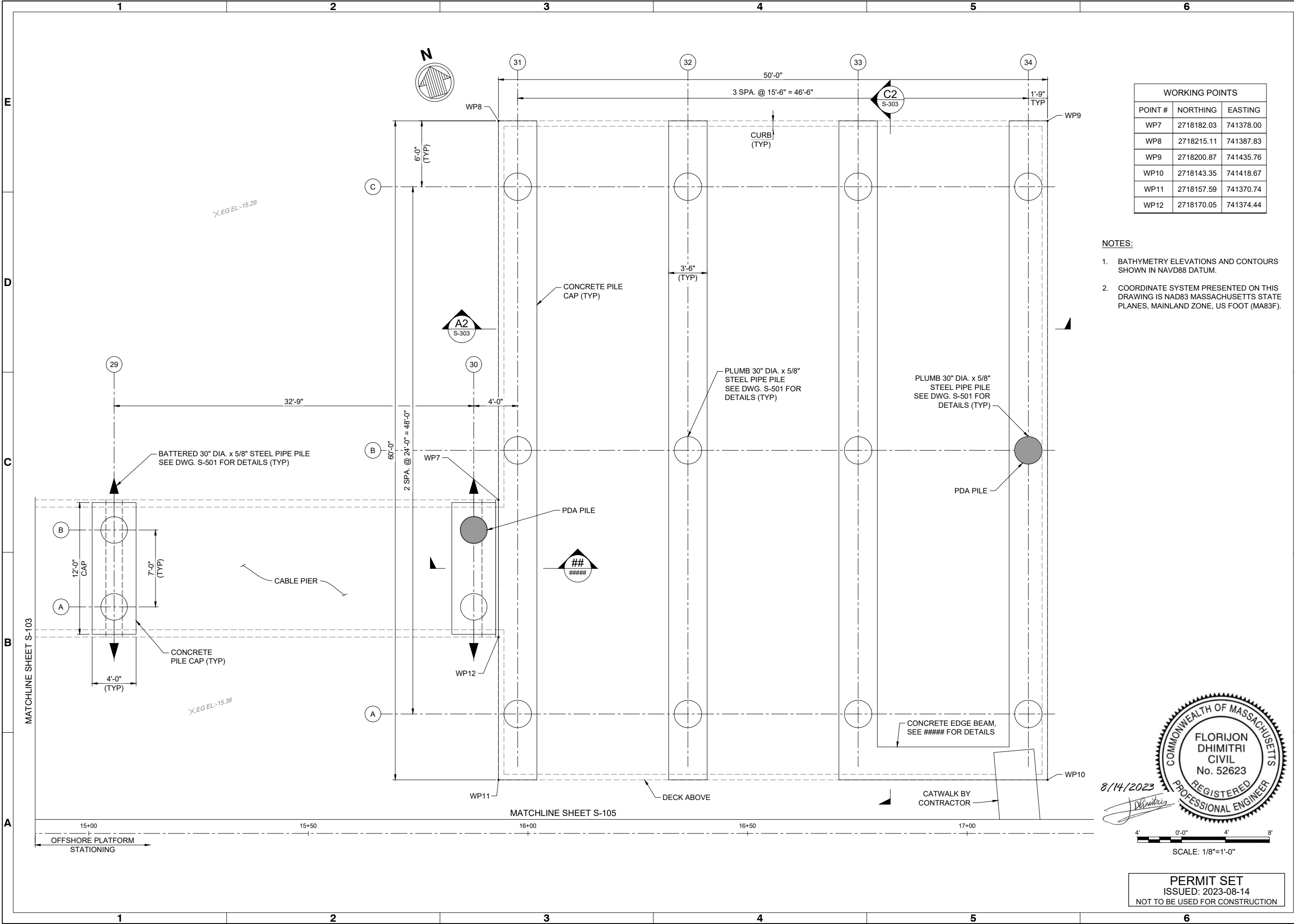
Designed by:	CC	Drawn by:	CM	Reviewed by:	FD	Submitted by:	MOFFATT & NICHOL
Date:	2023-08-14	M&N Project No.:	220757	Drawing code:		Drawing Scale:	1"=10' (D SHEET)

MOFFATT & NICHOL
180 WELLS AVE, SUITE #32
NEWTON, MA 02459

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P.O. BOX 8836
GREENVILLE, SC 29604

SEAL

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Reference No.
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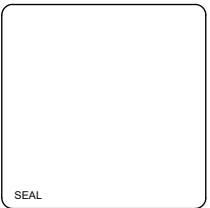
POINT #	NORTHING	EASTING
WP7	2718182.03	741378.00
WP8	2718215.11	741387.83
WP9	2718200.87	741435.76
WP10	2718143.35	741418.67
WP11	2718157.59	741370.74
WP12	2718170.05	741374.44

- NOTES:
- BATHYMETRY ELEVATIONS AND CONTOURS SHOWN IN NAVD88 DATUM.
 - COORDINATE SYSTEM PRESENTED ON THIS DRAWING IS NAD83 MASSACHUSETTS STATE PLANES, MAINLAND ZONE, US FOOT (MA83F).

PRYSMIAN - BRAYTON POINT
PIER & DREDGE DESIGN

OUTSHORE PLATFORM
PILE PLAN

Rev.	Date	Designed by	Drawn by	Reviewed by	Submitted by	Per scale
-	2023-08-14	CC	CM	FD	MOFFATT & NICHOL	1:1 (D SHEET)
Date: 2023-08-14		M&N Project No. 220757		Drawing code:		Drawing Scale:
M&N Project No. 220757		Drawn by: CM		Reviewed by: FD		Per scale: 1:1 (D SHEET)
M&N Project No. 220757		Submitted by: MOFFATT & NICHOL		Drawing Scale:		

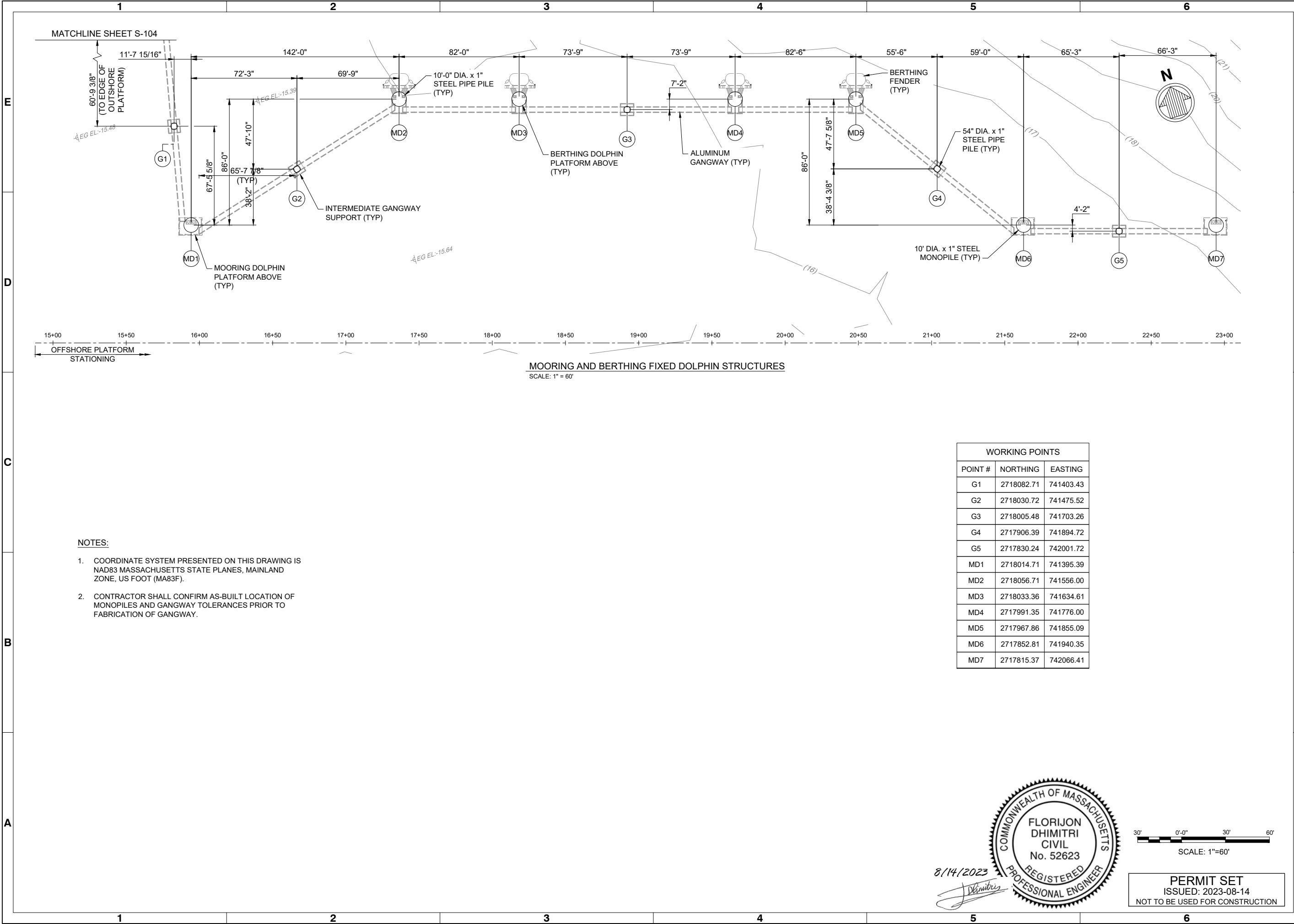


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Reference No.
S-104

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PERMIT SET
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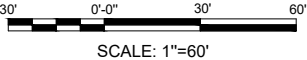
DRAWING SCALES SHOWN BASED ON 11"x17" DRAWING



NOTES:

- COORDINATE SYSTEM PRESENTED ON THIS DRAWING IS NAD83 MASSACHUSETTS STATE PLANES, MAINLAND ZONE, US FOOT (MA83F).
- CONTRACTOR SHALL CONFIRM AS-BUILT LOCATION OF MONOPILES AND GANGWAY TOLERANCES PRIOR TO FABRICATION OF GANGWAY.

WORKING POINTS		
POINT #	NORTHING	EASTING
G1	2718082.71	741403.43
G2	2718030.72	741475.52
G3	2718005.48	741703.26
G4	2717906.39	741894.72
G5	2717830.24	742001.72
MD1	2718014.71	741395.39
MD2	2718056.71	741556.00
MD3	2718033.36	741634.61
MD4	2717991.35	741776.00
MD5	2717967.86	741855.09
MD6	2717852.81	741940.35
MD7	2717815.37	742066.41



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PRYSMIAN - BRAYTON POINT
PIER & DREDGE DESIGN

MOORING AND
BERTHING DOLPHIN
PILE PLAN

Rev. -
Date: 2023-08-14
MAN Project No. 220757
Drawing code:
Drawing Scale:
Plot scale: 1"=60' (D SHEET)

Designed by: CC
Dwn by: CM
Reviewed by: FD
Submitted by: MOFFATT & NICHOL

MOFFATT & NICHOL
180 WELLS AVE, SUITE #502
NEWTON, MA 02459

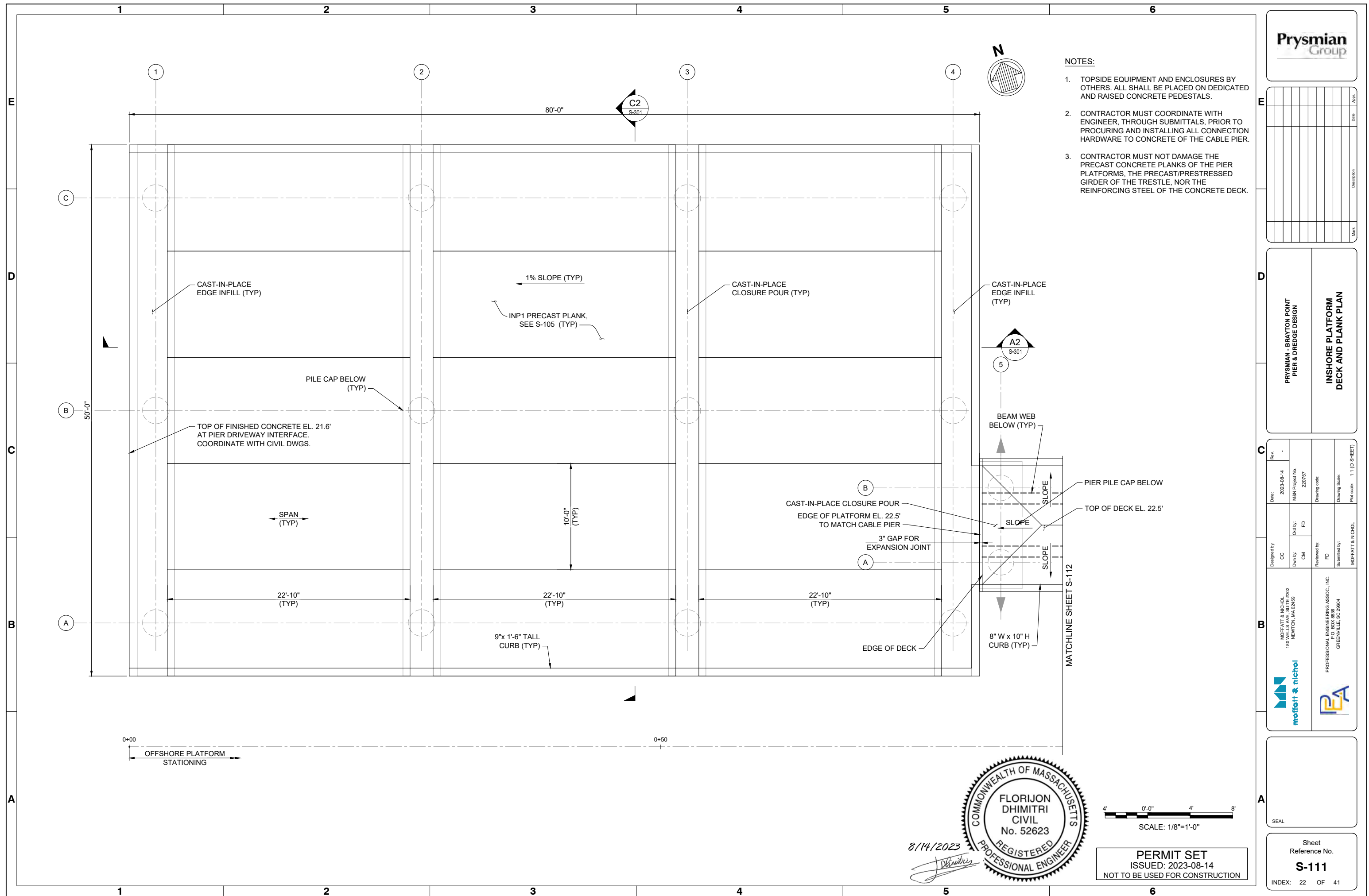
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P.O. BOX 8836
GREENVILLE, SC 29604

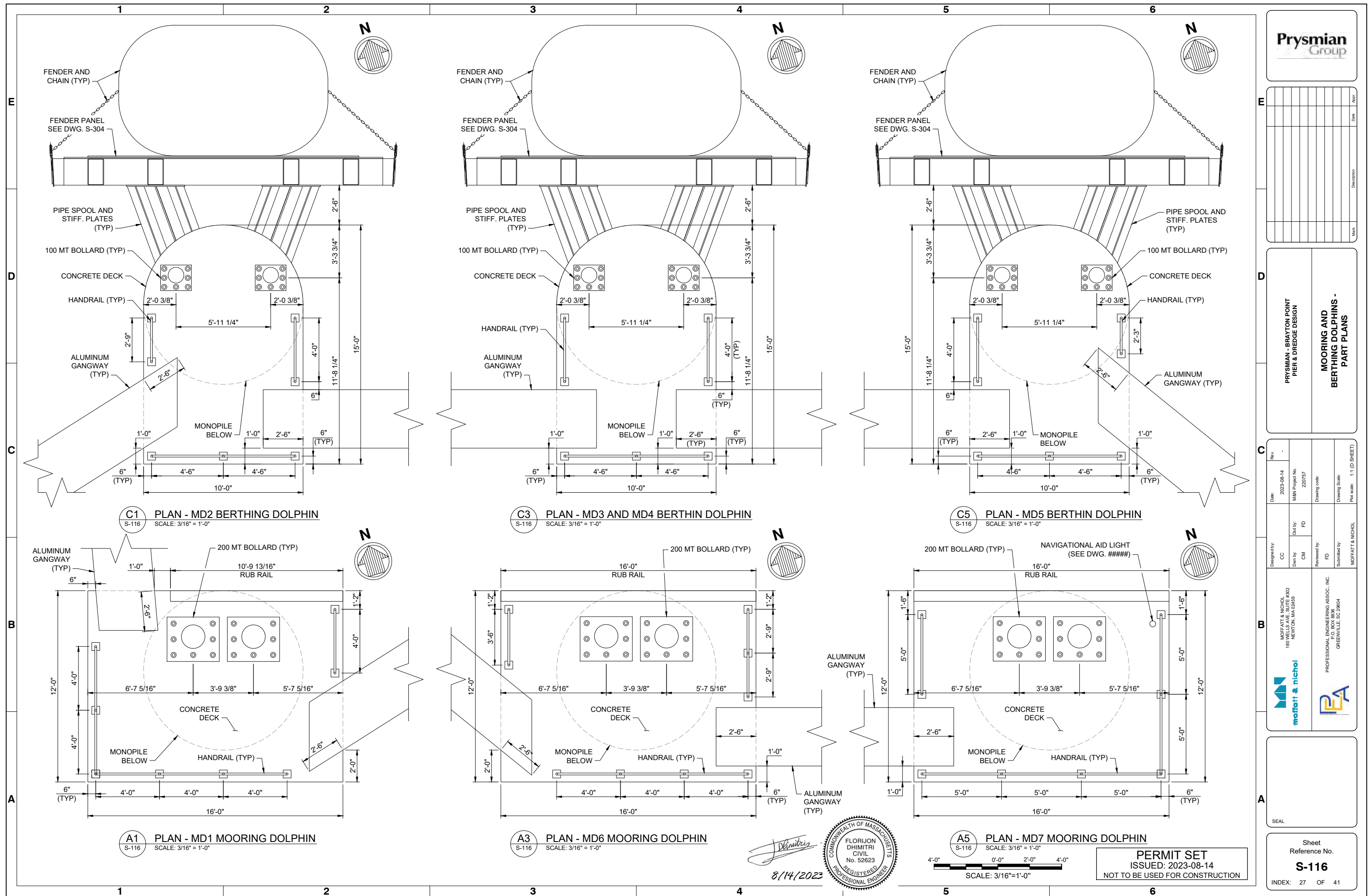
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Reference No.

S-105

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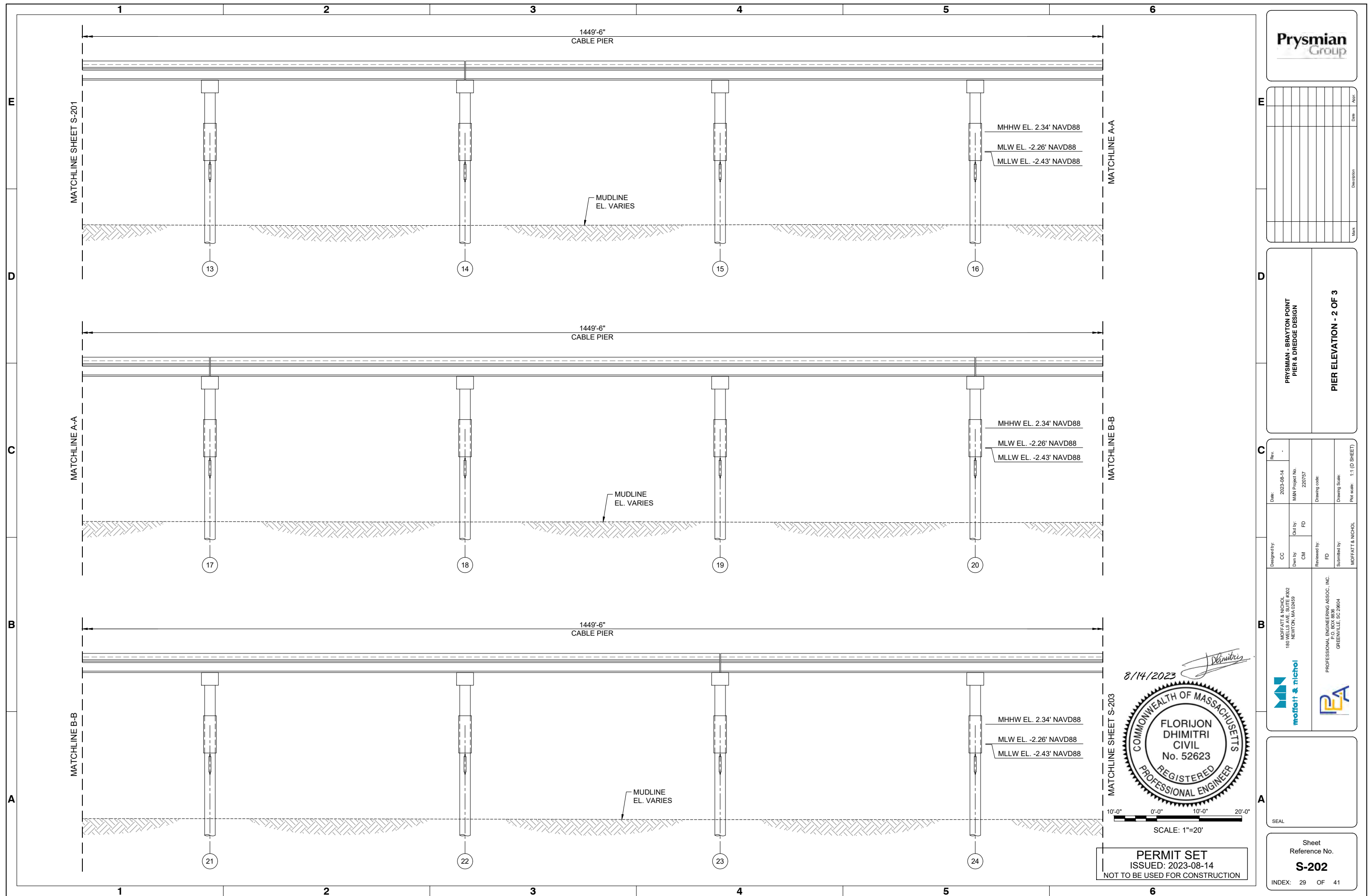
**MOORING AND
BERTHING DOLPHINS -
PART PLANS**

Designed by:	CC	Date:	2023-08-14	Rev.	-
		Out by:	M&N Project No. 220757		
	CM				
		Reviewed by:	Drawing code:		
	FD				
		Submitted by:	Drawing Scale:		
			MOFFATT & NICHOL		
			Plot scale: 1:1 (D SHEET)		

MOFFATT & NICHOL
180 WELLS AVE. SUITE #302
NEWTON, MA 02459

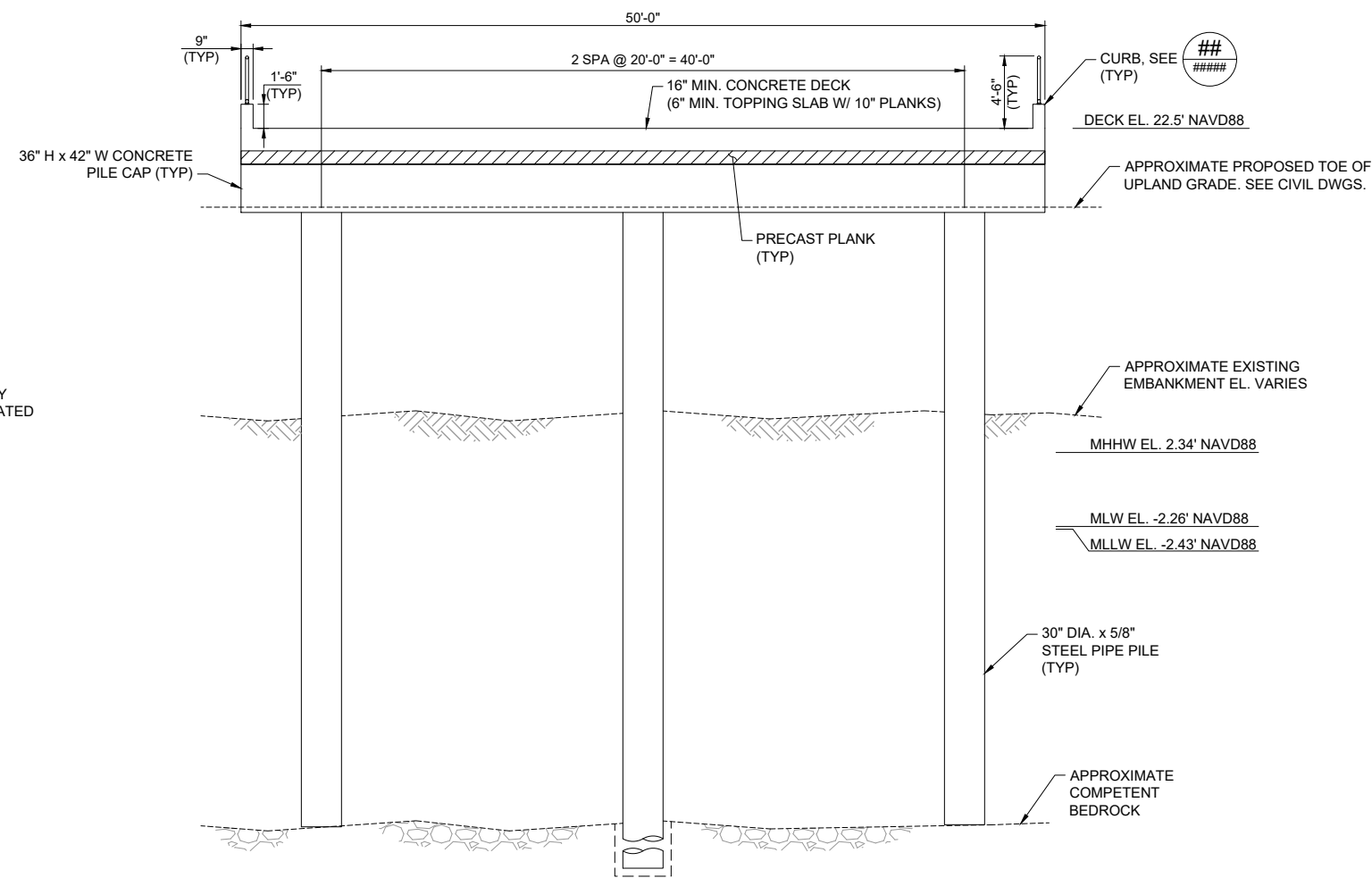
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GREENVILLE, SC 29604

Sheet
Reference No.
S-116



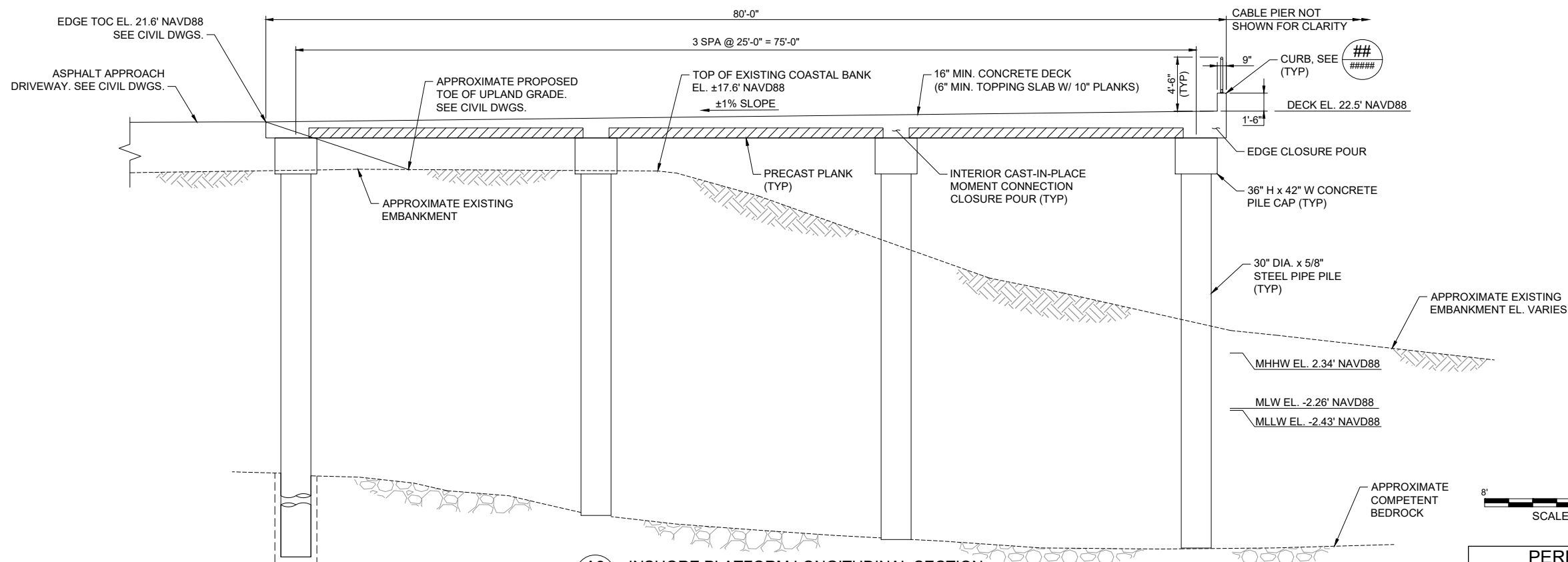


1. TOPSIDE EQUIPMENT AND ENCLOSURES BY OTHERS. ALL SHALL BE PLACED ON DEDICATED AND RAISED CONCRETE PEDESTALS



C2 INSHORE PLATFORM CROSS SECTION

SCALE: 3/32" = 1'-0"



A2 INSHORE PLATFORM LONGITUDINAL SECTION

SCALE: 3/32" = 1'-0"

8' 0'-0" 4'

SCALE: 3/32"=1'-0"

PERMIT SET
ISSUED: 2023-08-14



8/14/202

Prysmian Group

[illegible]

**PRYSMIAN - BRAYTON POINT
PIER & DREDGE DESIGN**

INSHORE PLATFORM SECTIONS

C	Designed by:	CC		Date:	2023-08-14	Rev:	-
	Drawn by:	CM	FD	Obj by:	M&M Project No. 220757		
	Reviewed by:	FD		Drawing code:			
	Limitations by:			Drawing Scale:			

MOFFATT & NICHOL
WELLS AVE., SUITE #302



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P.O. BOX 8836
GREENVILLE, SC 29604



SEAR

Sheet
Reference No.

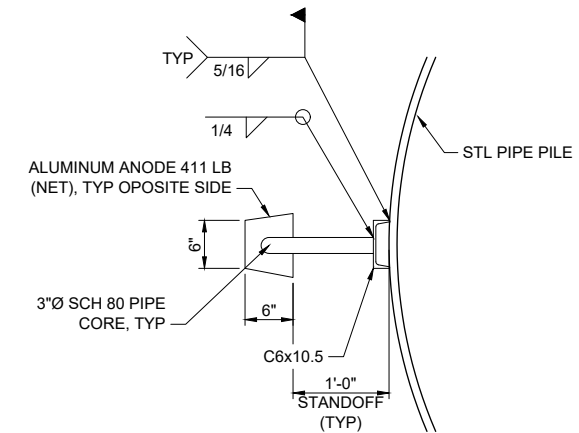
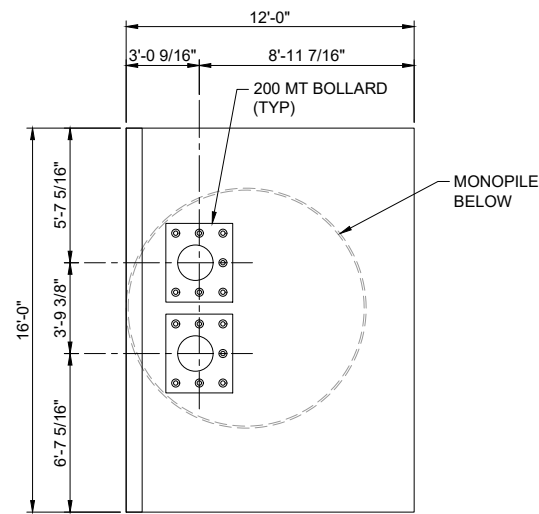
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DRAWING SCALES SHOWN BASED ON 11"x17" DRAWING

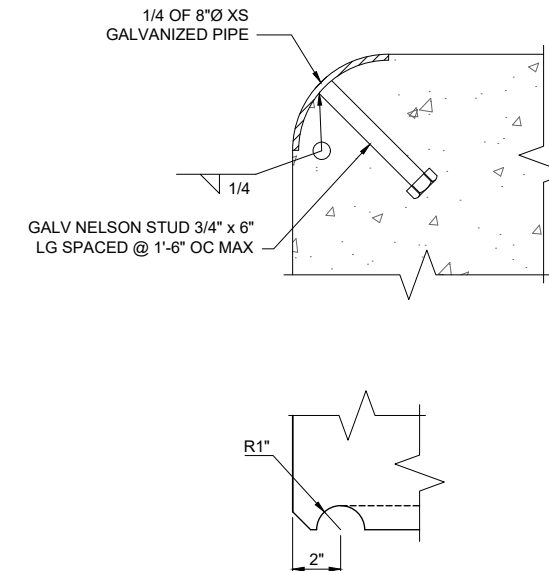
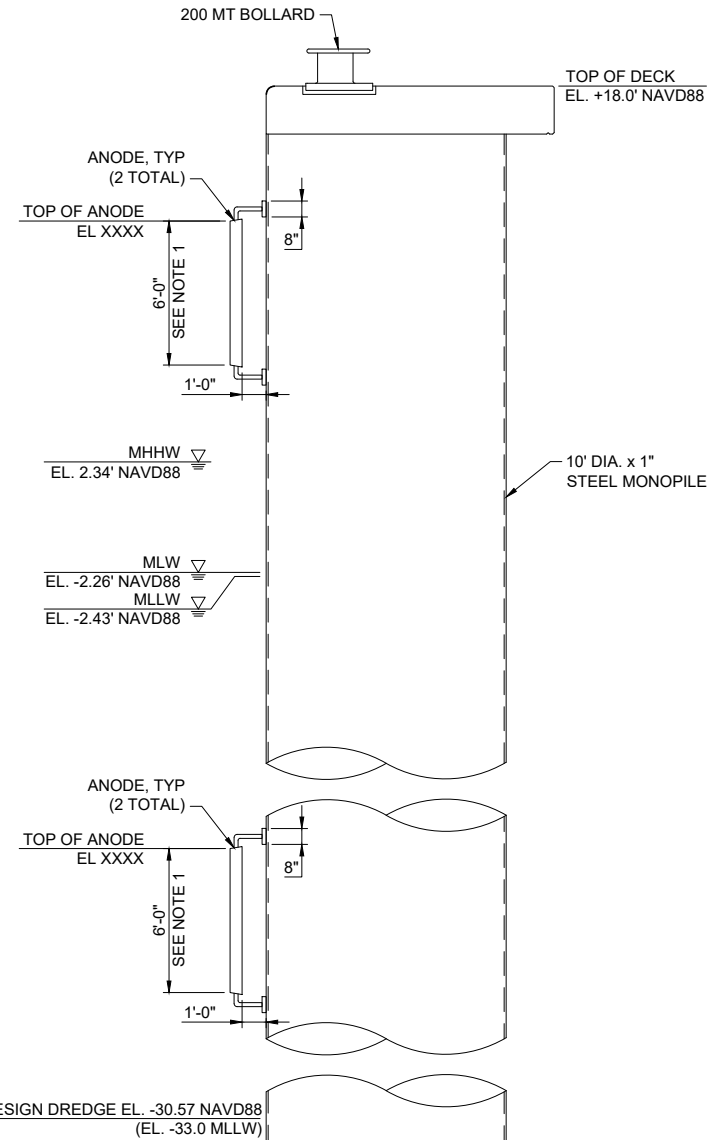


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NOTE:
ANODE DIMENSIONS SHOWN ARE NOMINAL, MANUFACTURERS DIMENSIONS MAY VARY. UNDERWATER WELDING IN ACCORDANCE TO AWS D3.6M. ANODES SHALL BE ALUMINUM-GALVANIC TYPE III, INDIUM ACTIVATED IN ACCORDANCE WITH MIL-DTL-24779-D.



2'-0" 0'-0" 1'-0" 2'-0"

SCALE: 3/8"=1'-0"

PERMIT SET
ISSUED: 2023-08-14
NOT TO BE USED FOR CONSTRUCTION

Prysmian
Group

[illegible]

**PRYSMIAN - BRAYTON POINT
PIER & DREDGE DESIGN**

MOORING AND BERTHING DOLPHIN DETAILS

Designed by: CC	Date: 2023-08-14	Rev. -
Drawn by: CM	Qcd by: FD	M&N Project No. 220757
Reviewed by: FD	Drawing code	
Submitted by:	Drawing Scale:	
MOFFATT & NICHOL		Plot scale: 1:1 (D SHEET)



moffatt & nichol
 MOFFATT & NICHOL
 180 WELLS AVE., SUITE #302
 NEWTON, MA 02459

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GREENVILLE, SC 29604

EAL

Sheet
Reference No.
S-503

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