February 15, 2024

Ms. Jennifer Holmes
Department of Natural Resources and Environmental Control
Delaware Costal Programs
100 W. Water St. Suite 7B
Dover, DE 19904

Subject: Wetlands and Subaqueous Lands Application
Construction Seaward of the DNREC Building Line Permit Application
Water Quality Certification Request
Maryland Offshore Wind Project

Dear Ms. Holmes,

US Wind, Inc. (US Wind) submits this Delaware Department of Natural Resources and Environmental Control (DNREC) Wetlands and Subaqueous Land Section Permit Application, Construction Seaward of the DNREC Building Line Permit Application, and Water Quality Certification Request for the Maryland Offshore Wind Project (the Project).

In communication between US Wind and the DNREC, it was agreed upon that all applications would be submitted concurrently and the attached document serves as a narrative that responds to the information requested in both permit application forms and relevant appendices. In support of this application, we respectfully submit the following narratives and attachments pursuant to the DNREC Wetlands and Subaqueous Lands Application, Construction Seaward of the DNREC Building Line Permit Application, and Water Quality Certification Request provided herein.

The following Project components have been considered to be relevant to the above stated permits and are included in the application narrative:

- The Project includes offshore and onshore export cables. Portions of the proposed export cables are located under wetlands and within subaqueous lands in the Atlantic Ocean within Delaware state waters and Indian River Bay.
- The Project includes a landfall at 3 R's Beach, the installation of cable ducts, and the construction of a transition vault in the parking lot. Portions of the proposed cable ducts and transition vault on 3 R's Beach are located in subaqueous land, under wetlands, near the DNREC Building Line, and near potential dune environments.
- The Project includes construction of new US Wind substations and expansion of the existing Indian River Bay Substation. Portions of the proposed substation construction and expansion are located near or within buffer zones of wetlands.
- The following referenced appendices to the US Wind Construction and Operations Plan (COP) have been submitted to the Bureau of Ocean Energy Management (BOEM) but are confidential. These references are highlighted in the document and can be provided by request with the caveat that the reports contain confidential business information.
    - Appendix I-A: Oil Spill Response Plan, 2022

    - Appendix II-A1: Integrated Site Characterization Report – Federal Waters,
    - Appendix II-A2: Integrated Site Characterization Report – State Waters
- The following referenced appendices to the US Wind COP have been submitted to BOEM and are available on BOEM's website: https://www.boem.gov/renewable-energy/state-activities/maryland-offshore-wind-construction-and-operations-plan
    - Appendix I-G: Waste Discharges and Releases, 2021
    - Appendix II-A4: CB&I MEA G&G Report, May 2014
    - Appendix II-A5: Alpine G&G Report 1751, June-Jul 2015
    - Appendix II-A6: Alpine Export Cable Report 1783, Aug-Nov 2016
    - Appendix II-A7: Delaware Waters Field Evaluation Report, March 2019
    - Appendix II-B1: Indian River Bay Sediment Transport Memo, 2020
    - Appendix II-B2: Offshore Sediment Transport Modeling, 2022
    - Appendix II-B3: Indian River Bay Sediment Transport Modeling, 2023
    - Appendix II-D1: Indian River Bay Benthic Report, 2017
    - Appendix II-D2: Offshore Benthic Report, 2016
    - Appendix II-D4: Lease Area and Offshore Export Cable Corridors Benthic Report 2021
    - Appendix II-D5: Indian River Bay Benthic Report 2022
    - Appendix II-E1: Information to Support Essential Fish Habitat Assessment, 2023
    - Appendix II-G1: Wetlands Delineations, 2021
    - Appendix II-H1: Underwater Acoustic Assessment Report, 2023
    - Appendix II-K7: Cable Burial Risk Assessment - Export Cable Corridor, 2023
- Dredging for access for cable installation barges is anticipated and US Wind proposes beneficial reuse projects for the dredged materials. Updated sediment characterization is complete and included in the application.

Application Form Components

- Application narrative
- Appendix A: Wetlands and Subaqueous Lands Section Permit Application Form
    - Appendix E. Utility Crossing
    - Appendix H. Fill
    - Appendix J. Vegetative Stabilization
    - Appendix M. Activities in State Wetlands
    - Appendix S. New Dredging Projects
    - Vicinity Map
    - Property Deeds
    - Abutters List of Adjoining Properties
- Appendix B: Permit Application for Construction Seaward of the DNREC Building Line
    - Property Deeds (same as above)
    - Profile and Plan View, locating DNREC Established Beach Preservation Building Line
    - Dune Encroachment Reduction Worksheet
    - Abutters List of Adjoining Properties (same as above)
- Appendix C: Preliminary Project Design Plans
    - C1: Preliminary Maryland Offshore Wind Project Export Cable Plans
        - Scaled Plan View
        - Scaled Cross-Section Plans
    - C2: Preliminary Maryland Offshore Wind Project Substation Plans

        - Scaled Plan View
        - Scaled Cross-Section Plans
- Appendix D: Request for a Water Quality Certification Pre-Filing Meeting
- Appendix E: October 2017 Sediment Sample Results
- Appendix F: Indian River and Indian River Bay Surface Water and Sediment Assessment – January 2024

The appropriate appendices of the Wetlands and Subaqueous Lands Permit Application Form are included in this submittal. Table 1 provides an overview of appendix applicability.

Table 1. Summary of Appendices Applicability

Appendix Name	Applicability Determination	Applicability Explanation
Appendix A: Boat Docking Facilities	Not Applicable	No boat docking facilities are proposed.
Appendix B: Boat Ramps	Not Applicable	No boat ramps are proposed.
Appendix C: Road Crossings	Not Applicable	No road crossings are proposed.
Appendix D: Channel Modifications or Impoundment Structures (Dams)	Not Applicable	No channel modifications or impoundment structures are proposed.
Appendix E: Utility Crossings	**Applicable**	**The utility cables proposed will cross subaqueous lands.**
Appendix F: Intake or Outfall Structures	Not Applicable	No intake or outfall structures are proposed.
Appendix G: Bulkheads	Not Applicable	No bulkheads are proposed.
Appendix H: Fill	**Applicable**	**Fill will be placed on marsh restoration sites.**
Appendix I: Rip-Rap Sills and Revetments	Not Applicable	No rip-rap sills and revetments are proposed.
Appendix J: Vegetative Stabilization	**Applicable**	**Vegetation will be used as a retainment measure.**
Appendix K: Jetties, Groins, or Breakwaters	Not Applicable	No jetties, groins, or breakwaters are proposed.
Appendix M: Activities in State Wetlands	**Applicable**	**State wetlands will be positively impacted through restoration.**
Appendix N: Preliminary Marina Screening Checklist	Not Applicable	Marinas are not proposed.
Appendix O: Marinas	Not Applicable	Marinas are not proposed.
Appendix P: Stormwater Management	Not Applicable	No stormwater management for waterways is proposed.
Appendix Q: Ponds and Impoundments	Not Applicable	No impacts to pounds or impoundments are proposed.
Appendix R: Maintenance Dredging or Excavating	Not Applicable	No maintenance dredging or excavating is proposed.
Appendix S: New Dredging Projects	**Applicable**	**The proposed project will utilize dredging during construction.**

Narrative Contents

- Introduction
- Project Infrastructure, Fabrication, and Installation
- Alternatives Analysis
- Existing Conditions, Potential Impacts, Avoidance, and Minimization
  - Geology and Physical Conditions
  - Water Quality
  - Wetlands and Waterbodies
  - Benthic Resources
  - Finfish and Essential Fish Habitat
  - Marine Mammals
  - Sea Turtles
  - Upland Habitats
  - Bats
  - Terrestrial Species
  - Avifauna
  - Threatened and Endangered Species
  - Navigation and Military Activities
  - Socioeconomics
  - Commercial and Recreational Fisheries
  - Other Uses
- Conclusion
- References

Pursuant to 40 CFR 121.5, the project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Should you have any questions related to this application, please contact me by telephone at 410-340-9428 or via email at l.jodziewicz@uswindinc.com.

Sincerely,

Laurie Jodziewicz
Senior Director of Environmental Affairs
US Wind, Inc.

cc: Michael Feinblatt, TRC Environmental, Inc.
Todd Sumner, US Wind

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DIVISION OF PARKS & RECREATION
RICHARDSON & ROBBINS BUILDING
89 KINGS HIGHWAY
DOVER, DELAWARE 19901

DIRECTOR'S OFFICE

PHONE
(302) 739-9200

January 31, 2024

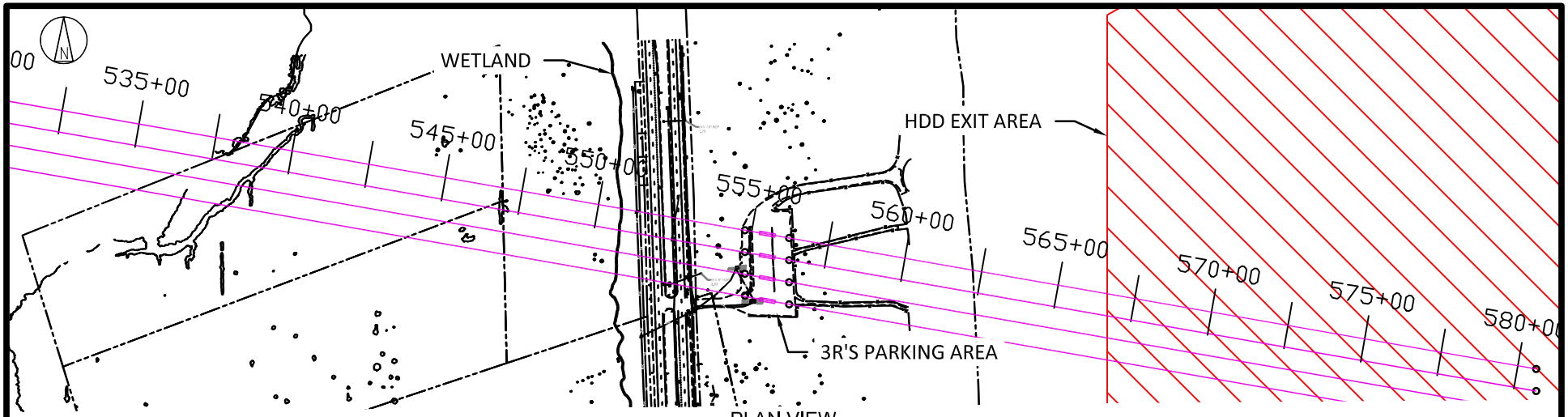
Gener G. Gotiangco
US Wind
401 East Pratt Street
Suite 1810
Baltimore, MD 21202

Dear Gener,

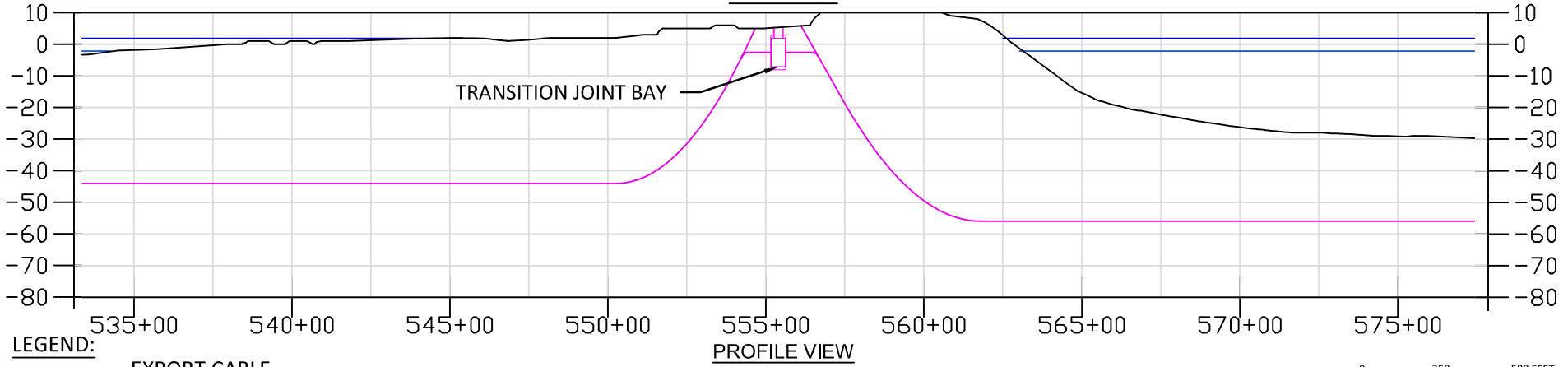
The Department of Natural Resources and Environmental Control Division of Parks and Recreation ("Parks"), as landowner of 3R's Beach located in Delaware Seashore State Park, consents to and authorizes US Wind's submission of a permit application for activities to be conducted on the property.

Sincerely,

Raymond E. Bivens
Director



PLAN VIEW



PROFILE VIEW

LEGEND:

- EXPORT CABLE
- BARGE ACCESS DREDGE LINE (DOES NOT INCLUDE SIDE SLOPES)
- TEMPORARY WORK AREA
- MHHW
- MLLW
- 250' NAV CHANNEL OFFSET

0 250 500 FEET
HORIZONTAL SCALE 1"=500'

0 25 50 FEET
VERTICAL SCALE 1"=50'

NOT TO BE USED FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		

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INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS

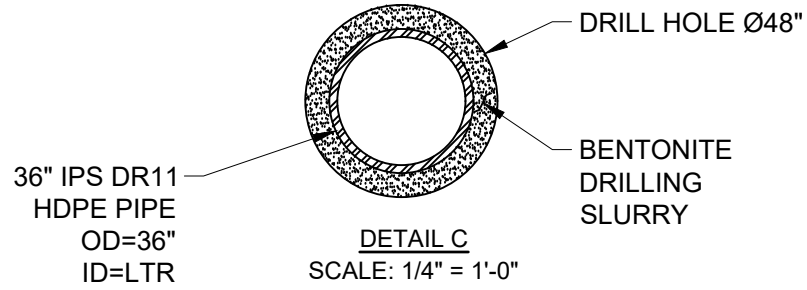
PROJECT	DRAWING NUMBER	REV
410735	- 018	0

DESIGNER	DRAWN	CODE
DJ	SLH	
CHECKED	DATE	AREA
RW	10/13/23	

ONSHORE PLAN & PROFILE 3R'S PARKING LOT

Horizontal Directional Drill

Cross Section



DETAIL C
SCALE: 1/4" = 1'-0"

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0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		

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US WIND
INDIAN RIVER BAY - EXPORT CABLES

PROJECT DRAWING NUMBER: 410735 - 022
REV: 0

DESIGNER	DRAWN
DJ	SLH
CHECKED	DATE
RW	10/13/23

HDD SECTION

CODE
AREA

Transition Vault Details

-3 R's Parking Lot Submarine Cable to Submarine Cable Splices

-West Landing Submarine Cable to Land Cable Splices

1. THE TRANSITION JOINT BAY SUPPLIER SHALL PROVIDE A SUFFICIENT NUMBER OF GRADE RINGS TO FACILITATE INSTALLATION OF THE TRANSITION JOINT BAY TO A DEPTH OF 4'-0" (TOP OF TRANSITION JOINT BAY TO GRADE) IF REQUIRED. TRANSITION JOINT BAY SHALL BE INSTALLED WITH A MINIMUM OF 1'-6" COVER.

2. EXTERIOR TRANSITION JOINT BAY SURFACES SHALL BE COATED WITH DAMP PROOFING, AND INTERIOR TRANSITION JOINT BAY SURFACES SHALL BE SEALED IN ACCORDANCE WITH THE SPECIFICATIONS.

3. THE TRANSITION JOINT BAY SHALL BE SUPPLIED WITH AN ADEQUATE QUANTITY OF JOINT SEALANT TO COMPLETELY SEAL ALL TRANSITION JOINT BAY JOINT INTERFACES, INCLUDING THE TRANSITION JOINT BAY COVER FRAME. JOINT SEALER TO BE K.T. SNYDER CO. "RAM-NEK" OR ACCEPTABLE EQUAL. SUPPLIER TO ENSURE SUFFICIENT JOINT SEALANT IS AVAILABLE AND APPLIED TO JOINT SURFACES WHEN SETTING TRANSITION JOINT BAYS.

4. PULLING IRONS SHALL BE RATED FOR A MINIMUM OF 32,000 LBS TENSION AT A LOADING ANGLE PERPENDICULAR TO THE WALL AND A SAFETY FACTOR OF 2.

5. TRANSITION JOINT BAY SUPPLIER SHALL PRECAST A MINIMUM 2" DEEP BY 2'-6" WIDE BY 4'-6" HIGH RECESS IN THE TRANSITION JOINT BAY OUTSIDE END WALL CENTERED AROUND EACH OF THE TWO DUCT ENTRANCES. TRANSITION JOINT BAY SUPPLIER SHALL FURNISH AND INSTALL 10 THREADED CONCRETE ANCHORS AND THREADED #4 BY 14 INCH LONG CONCRETE REINFORCING STEEL BARS AT EACH OF THE TWO DUCT ENTRANCES. CIVIL CONSTRUCTION SUBCONTRACTOR SHALL ENSURE A SUFFICIENT AMOUNT OF DUCT CONCRETE IS PLACED TO COMPLETELY FILL EACH RECESS.

6. TRANSITION JOINT BAY SUMP COVER SHALL BE FABRICATED USING MINIMUM 1/8"X3/4" STEEL BAR STOCK AND WELDED IN A CONFIGURATION FOR SUPPORT OF 300 PSF MINIMUM. COVER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. SUBCONTRACTOR SHALL SUBMIT COVER DESIGN FABRICATION DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION. TRANSITION JOINT BAY FLOOR SHALL BE SLOPED 1/16"/FT TOWARDS THE SUMP OPENING.

7. TRANSITION JOINT BAY FABRICATOR SHALL CAST WITHIN THE TRANSITION JOINT BAY END WALL PVC/HDPE MOLDED END BELL AND LONG BELL COUPLING FITTINGS TO FACILITATE INSTALLATION OF CONDUIT BY OTHERS. END BELLS SHALL BE SIZED AND LOCATED ON THE INTERIOR WALL AS SHOWN ON THE DRAWINGS.

8. TRANSITION JOINT BAY SHALL BE DESIGNED TO WITHSTAND AASHTO HS-25 HEAVY LOADINGS, USING WHICHEVER COMBINATION OF FORCES PRODUCES THE MAXIMUM STRESS.

9. FOR ADDITIONAL DESIGN PARAMETERS, SEE SPECIFICATIONS.

10. THE TRANSITION JOINT BAY SUPPLIER SHALL DESIGN AND INSTALL LIFTING LUGS SO AS TO SUPPORT THE WEIGHT OF EACH SECTION DURING PLACEMENT. LIFTING LUGS SHALL BE DESIGNED AND INSTALLED RECESSED INTO CONCRETE SLAB AND SHALL NOT PROTRUDE ABOVE FLOOR SURFACE.

11. REBAR WITHIN TRANSITION JOINT BAY WALLS SHALL NOT FORM A CLOSED LOOP AROUND ANY INDIVIDUAL 8 INCH CONDUIT OPENINGS. REBAR LOOPS ARE ACCEPTABLE WHEN ENCIRCLING ALL OF THE 8 INCH CONDUIT OPENINGS.

12. TRANSITION JOINT BAY SUPPLIER SHALL PROVIDE TWO (2) GROUNDING CONNECTIONS, EACH CONSISTING OF ONE (1) NEMA 2-HOLE PAD CONNECTED TO A BARE CONDUCTOR PIGTAIL CAST INTO THE TRANSITION JOINT BAY END WALL. CONNECTIONS SHALL BE EXOTHERMALLY WELDED AND CONTINUITY TESTED BEFORE AND AFTER INSTALLATION. PIGTAIL SHALL EXTEND A MINIMUM OF 8'-0" OUTSIDE OF THE WALL. SEE DETAIL A.

13. ALL FABRICATION DETAIL DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.

14. AT NO POINT SHOULD A CLOSED METAL LOOP BE CREATED AROUND ANY ONE SINGLE CABLE.

15. VAULT WILL BE EXPOSED TO SEA WATER, WHICH CLASSIFIES AS EXPOSURE CLASS C2 PER ACI 318 WHICH REQUIRES ADDITIONAL MEASURE TO BE TAKEN TO PROTECT THE REINFORCEMENT FROM CORROSION. VAULT CONCRETE MIX DESIGN WILL REQUIRE A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 5,000 psi AND A MAXIMUM WATER CEMENT RATIO OF 0.40.

NOT TO BE USED FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		

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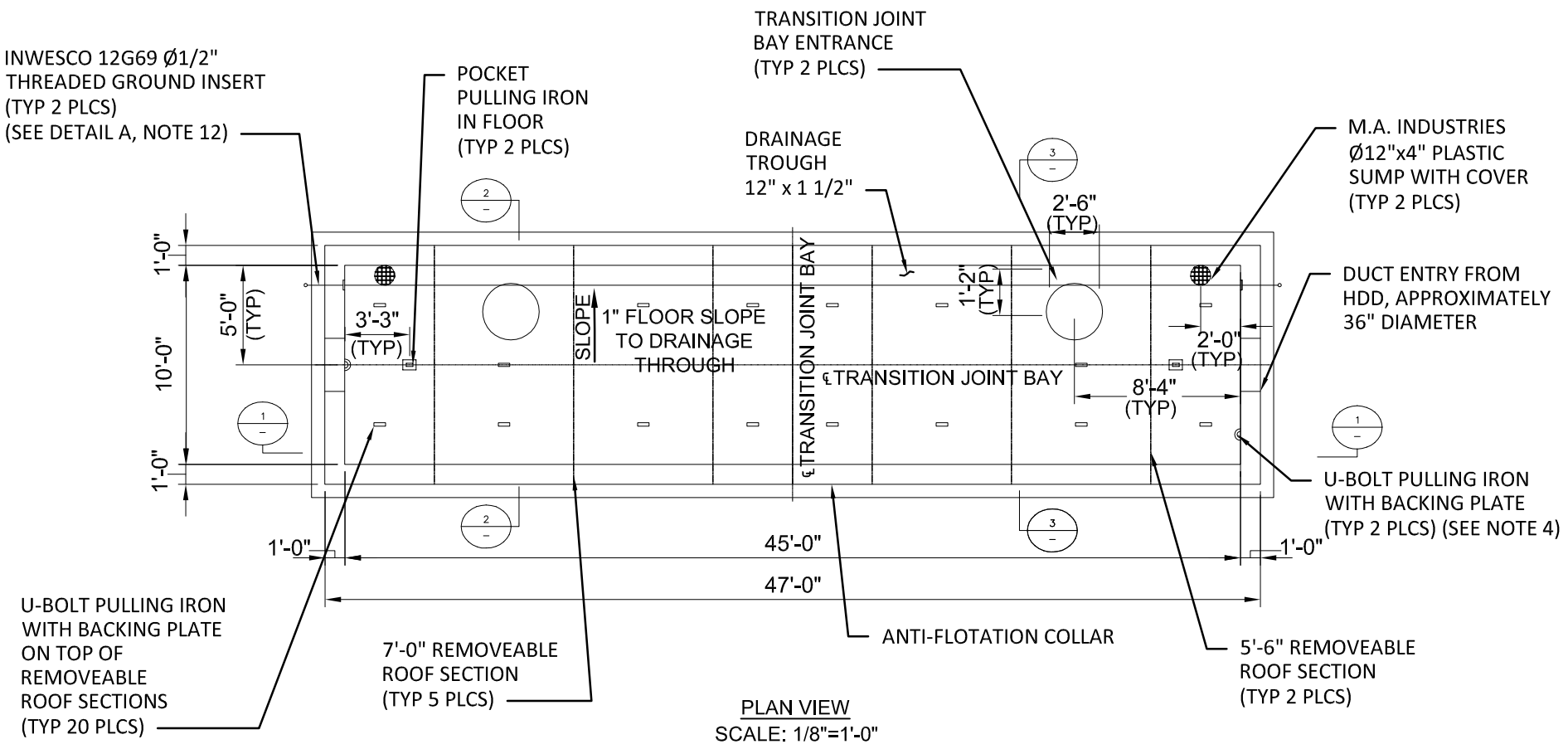
US WIND
INDIAN RIVER BAY - EXPORT CABLES

PROJECT 410735 - DRAWING NUMBER 025
REV 0

DESIGNER DJ
DRAWN SLH
CHECKED RW
DATE 10/13/23

TRANSITION VAULT DETAILS -NOTES

CODE
AREA



PLAN VIEW
SCALE: 1/8"=1'-0"

NOT TO BE USED FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		

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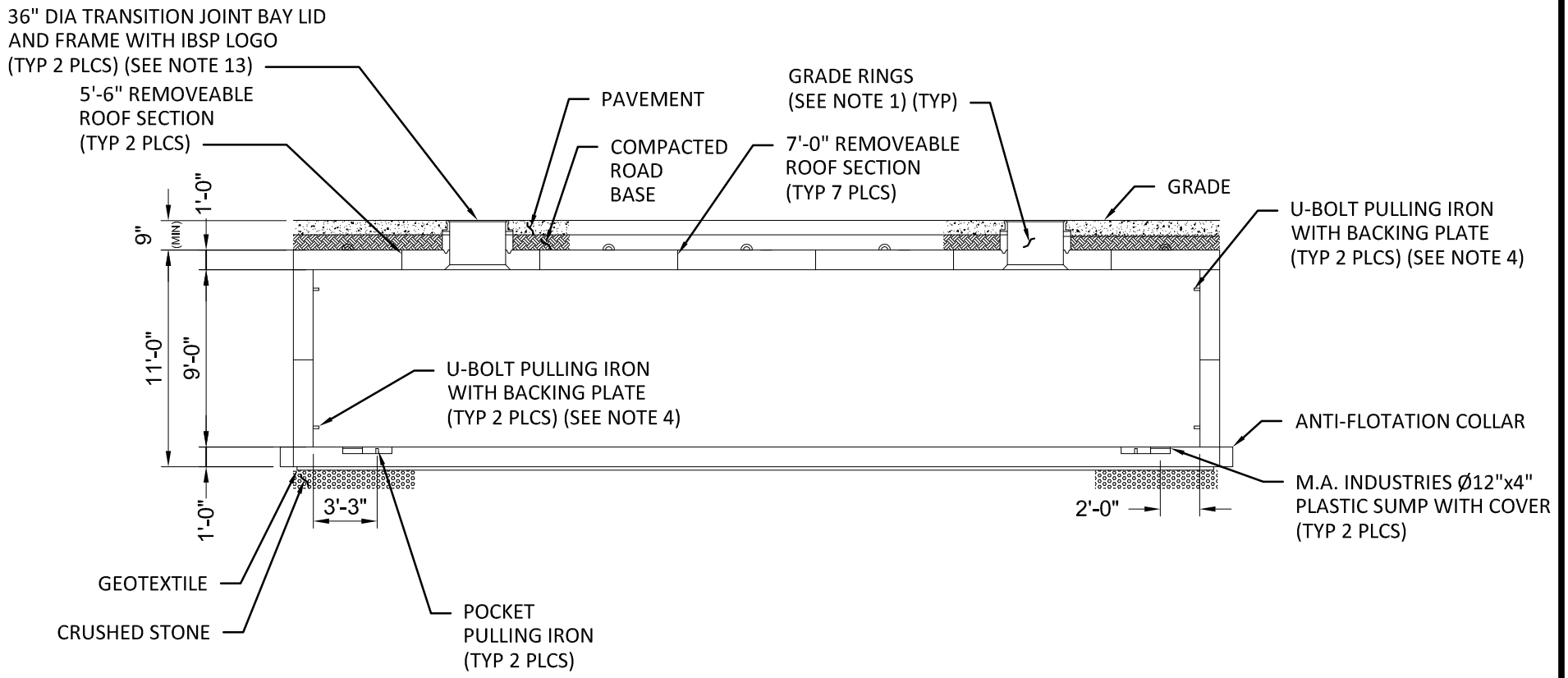
US WIND
INDIAN RIVER BAY - EXPORT CABLES

PROJECT	DRAWING NUMBER	REV
410735	- 026	0

DESIGNER	DRAWN	CODE
DJ	SLH	
CHECKED	DATE	AREA
RW	10/13/23	

TRANSITION VAULT DETAILS -PLAN VIEW



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

NOT TO BE USED FOR CONSTRUCTION

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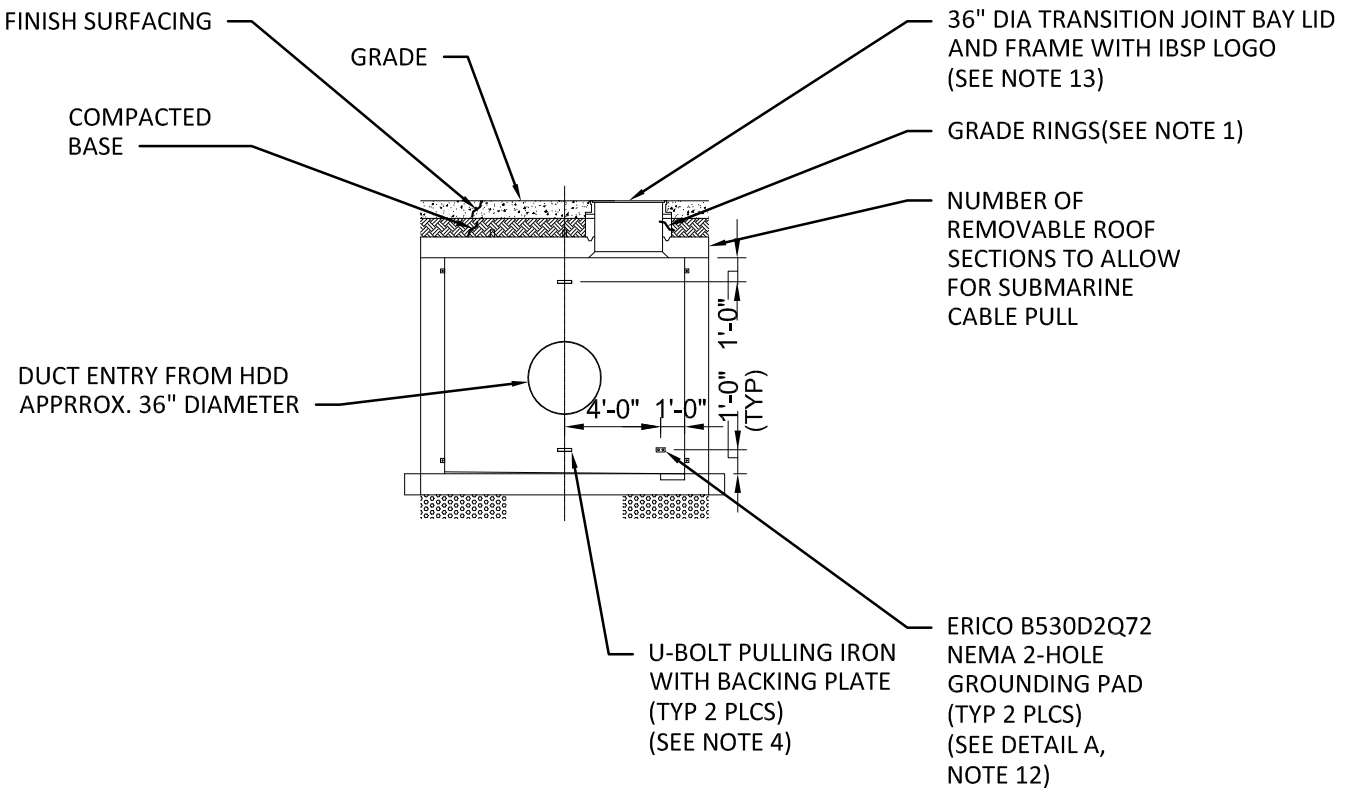
US WIND
INDIAN RIVER BAY - EXPORT CABLES

PROJECT 410735 - DRAWING NUMBER 027 | REV 0

DESIGNER	DRAWN	CODE
DJ	SLH	
CHECKED	DATE	AREA
RW	10/13/23	

TRANSITION VAULT DETAILS -SECTION VIEW



SECTION 2
SCALE: 1/8"=1'-0"

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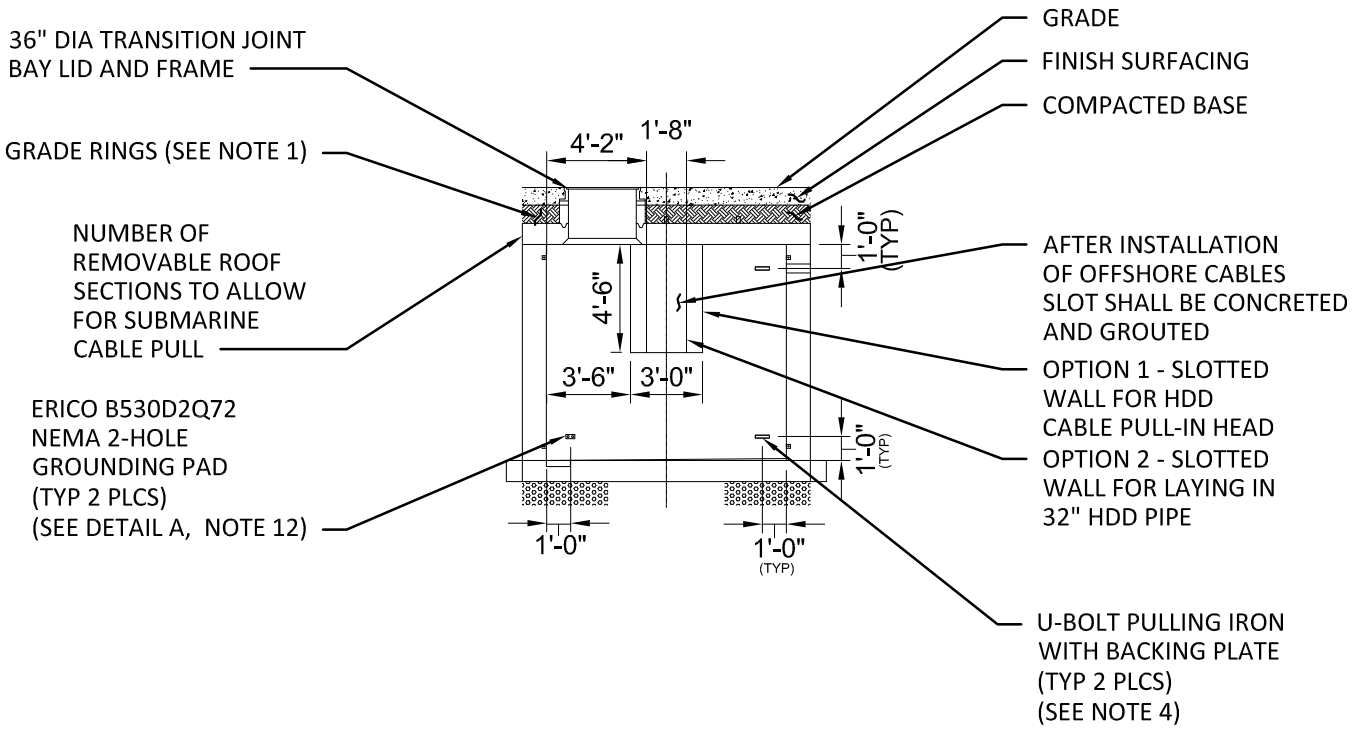
INDIAN RIVER BAY - EXPORT CABLES

PROJECT 410735 - DRAWING NUMBER 028
REV 0

DESIGNER DJ
DRAWN SLH
CHECKED RW
DATE 10/13/23

TRANSITION VAULT DETAILS -SECTION 2 VIEW

CODE
AREA



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

NOT TO BE USED FOR CONSTRUCTION

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0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		

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INDIAN RIVER BAY - EXPORT CABLES

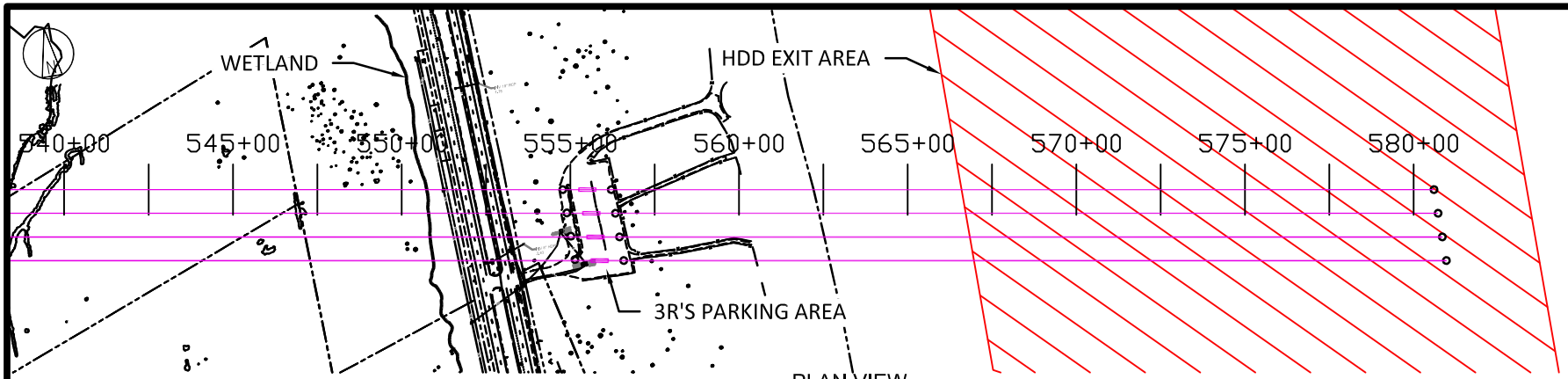
PROJECT 410735 - 029
DRAWING NUMBER
REV 0

DESIGNER	DRAWN	CODE
DJ	SLH	
CHECKED	DATE	AREA
RW	10/13/23	

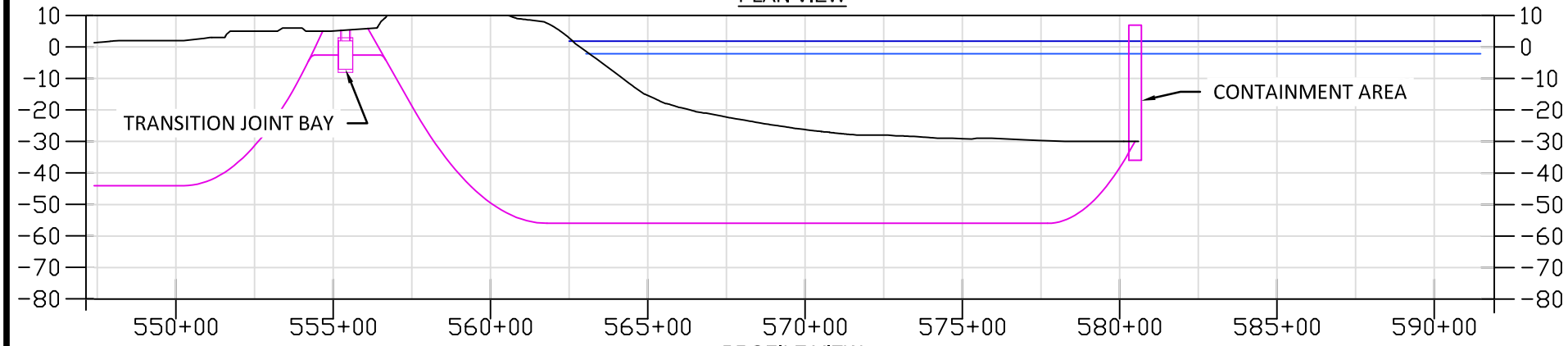
TRANSITION VAULT DETAILS -SECTION 3 VIEW

Horizontal Directional Drill

Plan and Profiles



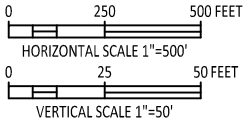
PLAN VIEW



PROFILE VIEW

LEGEND:

- EXPORT CABLE
- BARGE ACCESS DREDGE LINE (DOES NOT INCLUDE SIDE SLOPES)
- TEMPORARY WORK AREA
- MHHW
- MLLW
- 250' NAV CHANNEL OFFSET



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US WIND

INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS

PROJECT	DRAWING NUMBER	REV
410735	- 032	0

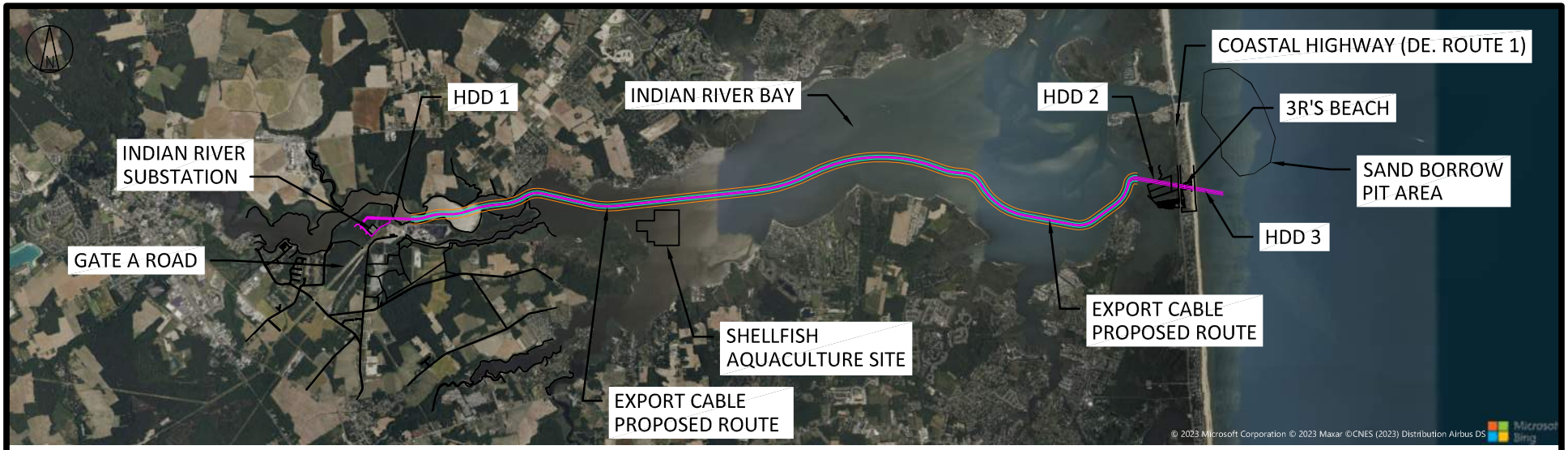
DESIGNER	DRAWN	CHECKED	DATE
DJ	SLH	RW	10/13/23

HDD 3 PLAN & PROFILE
EAST LANDING - ATLANTIC

CODE

AREA

Project Route Overview
and
General Notes



PLAN VIEW

GENERAL NOTES:

1. Coordinates are in US Survey Feet, NAD 83, Delaware State Plane (SPCS 700)
2. Elevations are in US Survey Feet NAVD 88.
3. Route is not final. Minor adjustments in routing may be required as additional information is collected.
4. Disturbance area in water is based on the proposed installation methods.
5. Barge access dredge line is bottom of trench. Extents shown do not include side slopes. Side slope widths may vary.

0 5000 10000 FEET

SCALE 1"=10000'

NOT TO BE USED FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
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US WIND
INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS

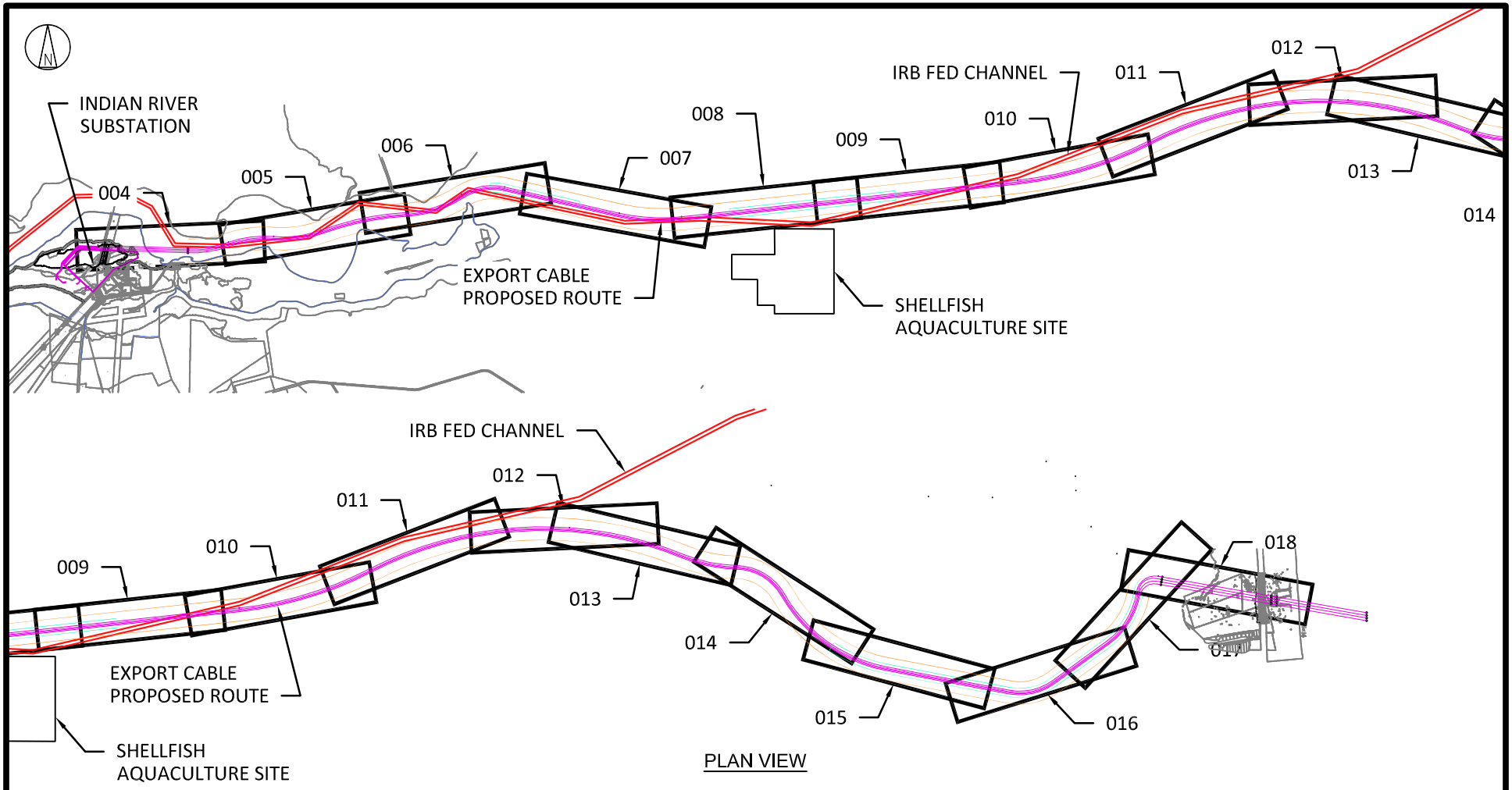
PROJECT	DRAWING NUMBER	REV
410735	- 002	0

DESIGNER	DRAWN	CODE
DJ	SLH	
CHECKED	DATE	AREA
RW	10/13/23	

VICINITY MAP & GENERAL NOTES

Plan and Profile Drawing

Sheet Key Map



PLAN VIEW

NOT TO BE USED FOR CONSTRUCTION

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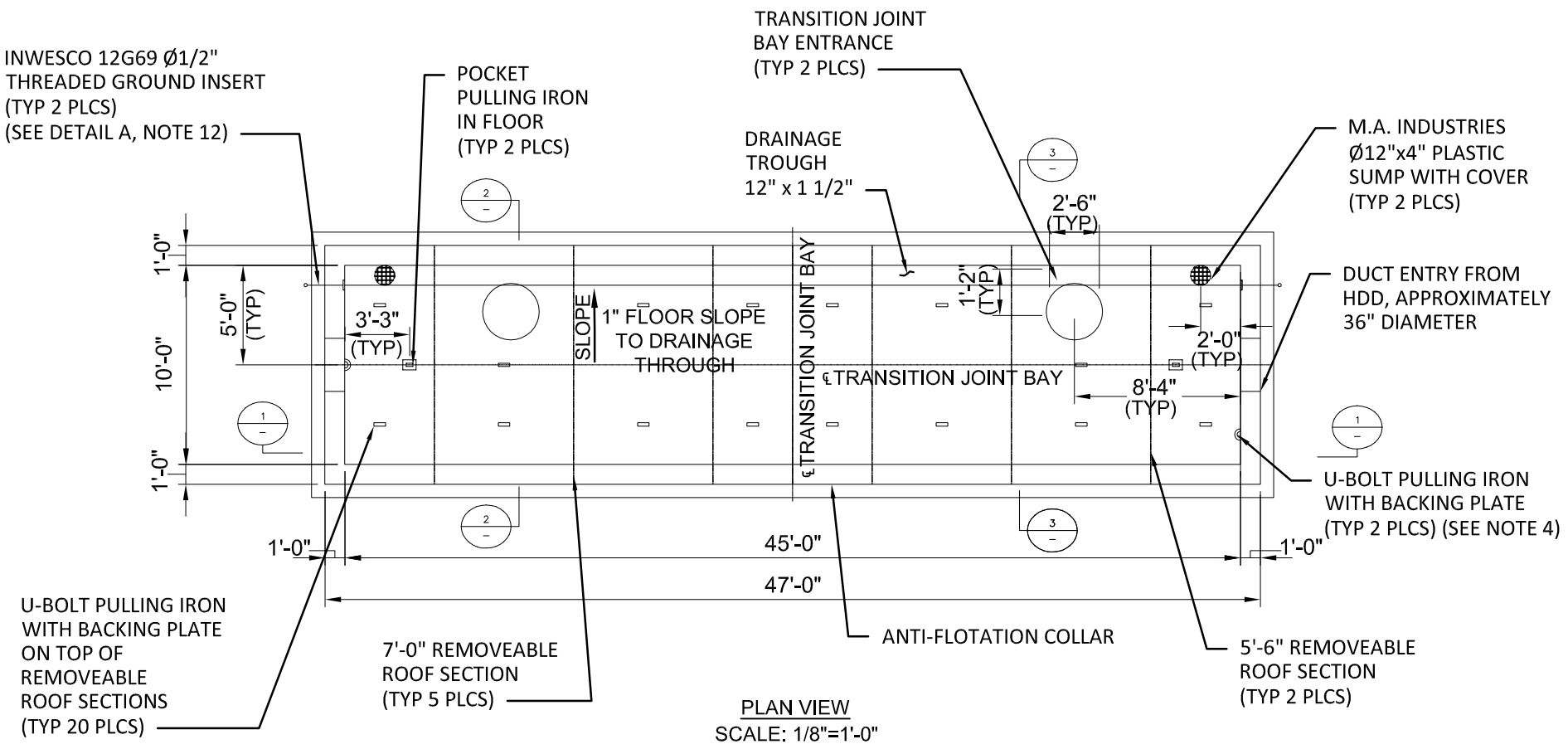
US WIND
INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS

PROJECT	DRAWING NUMBER	REV
410735	- 003	0

DESIGNER	DRAWN	CODE
DJ	SLH	
CHECKED	DATE	AREA
RW	10/13/23	

KEY MAP



PLAN VIEW
SCALE: 1/8"=1'-0"

NOT TO BE USED FOR CONSTRUCTION

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INDIAN RIVER BAY - EXPORT CABLES

PROJECT	DRAWING NUMBER	REV
410735	- 026	0

DESIGNER	DRAWN	CODE
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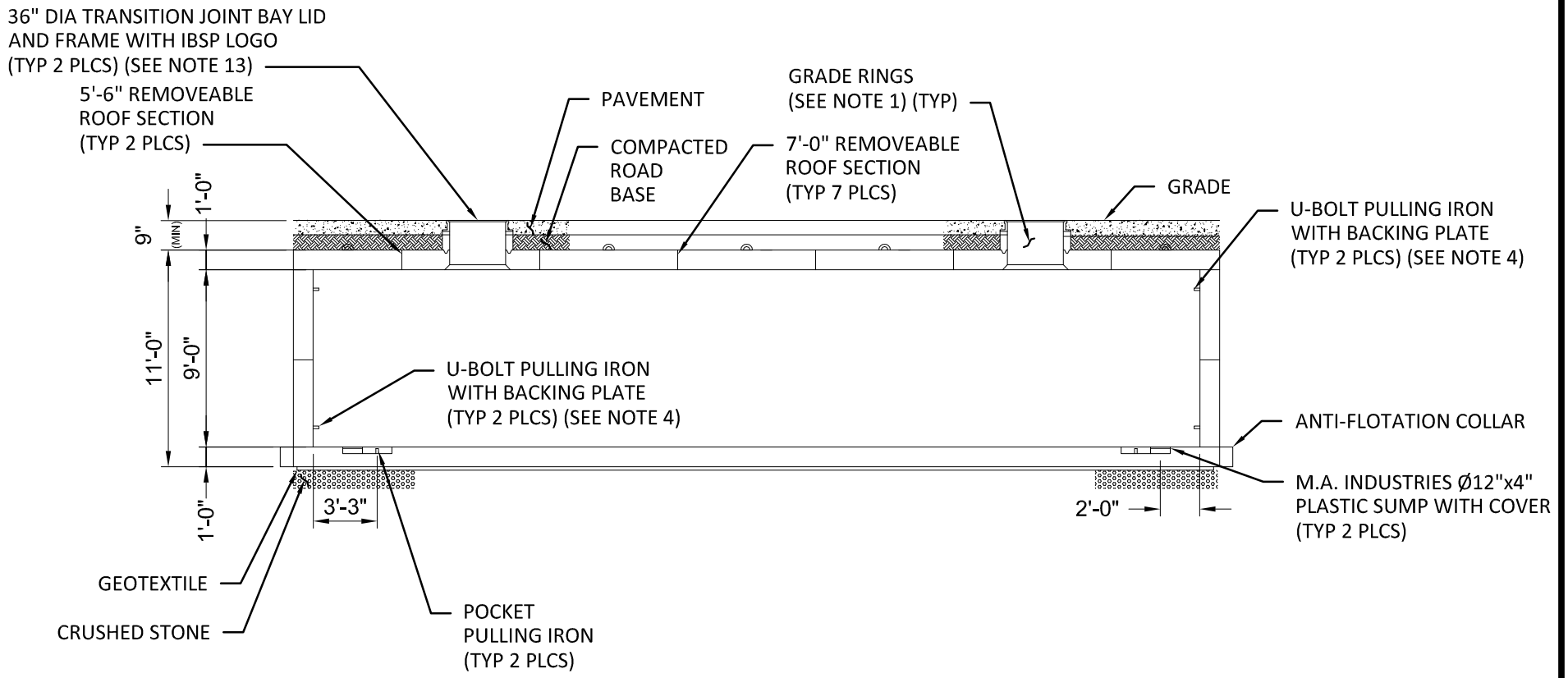
TRANSITION VAULT DETAILS -PLAN VIEW



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

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US WIND
INDIAN RIVER BAY - EXPORT CABLES

PROJECT 410735 - DRAWING NUMBER 027 | REV 0

DESIGNER	DRAWN	CODE
DJ	SLH	
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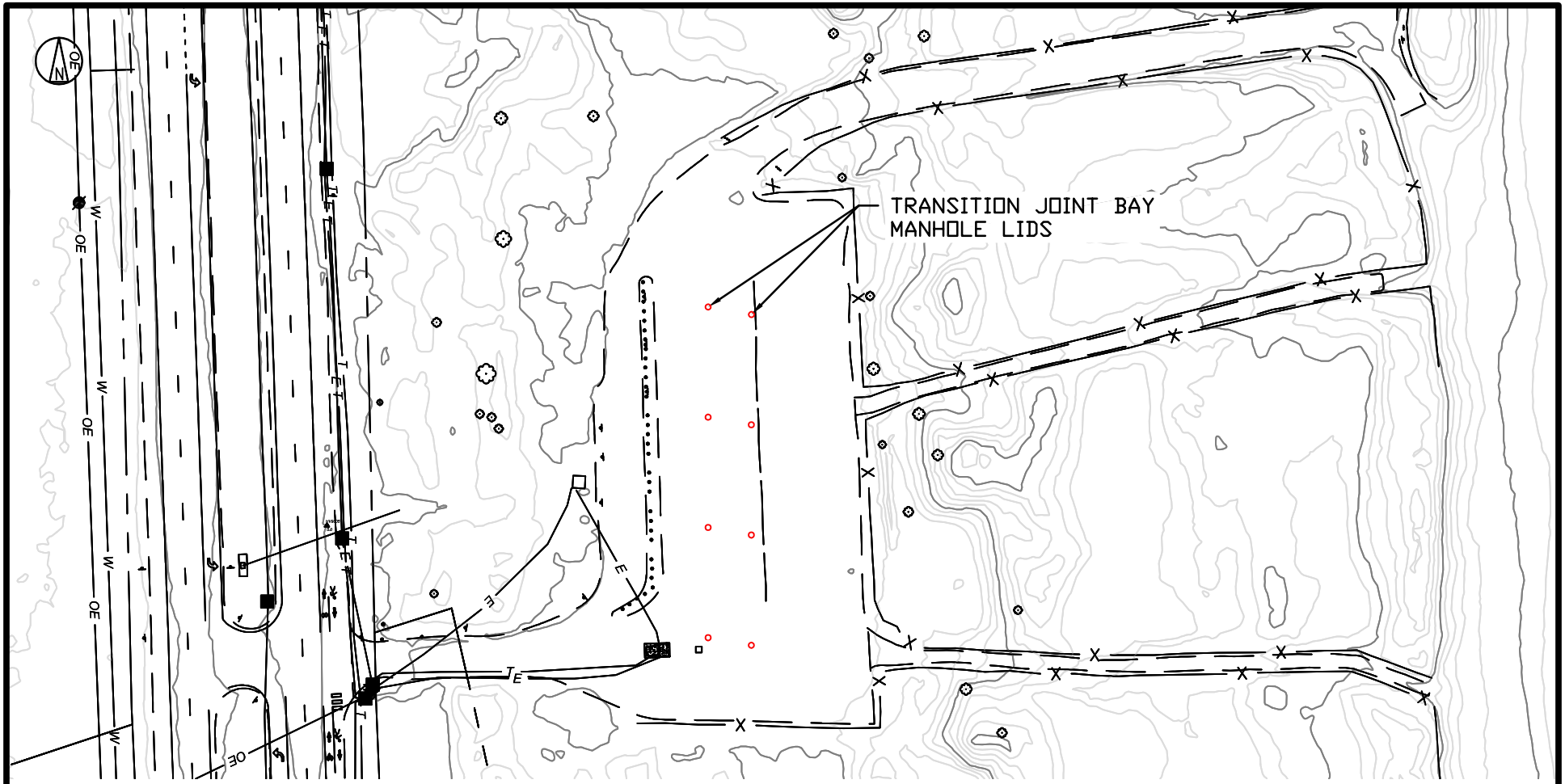
RW	10/13/23	

TRANSITION VAULT DETAILS -SECTION VIEW

East Landing – 3 R's Parking Lot

Permanent Disturbance

(Manhole Lids Only)



PLAN VIEW

0 50 100 FEET

SCALE 1"=100'

NOT TO BE USED FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		

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US WIND
INDIAN RIVER BAY - EXPORT CABLES

PROJECT 410735 - DRAWING NUMBER 033 | REV 0

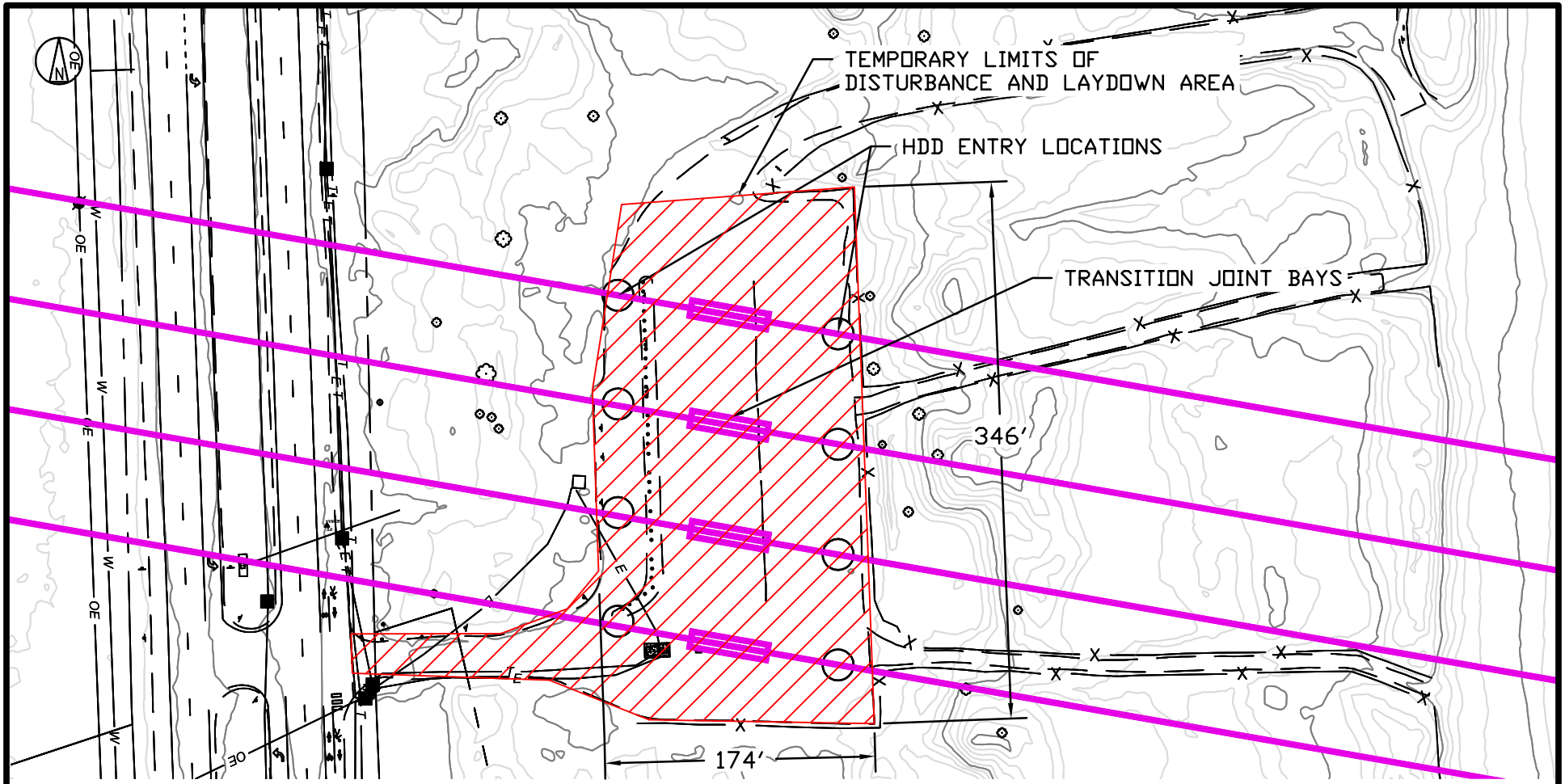
DESIGNER DJ | DRAWN SLH | CHECKED RW | DATE 10/13/23

3R'S PARKING LOT
PERMANENT DISTURBANCE AREA

CODE | AREA

East Landing – 3 R's Parking Lot

Temporary Disturbance During Installation



PLAN VIEW

NOTE:
1. Temporary disturbance within limits of parking area (no additional surface disturbance).

0 50 100 FEET
SCALE 1"=100'

NOT TO BE USED FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		

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US WIND
INDIAN RIVER BAY - EXPORT CABLES

PROJECT DRAWING NUMBER: 410735 - 034
REV: 0

DESIGNER: DJ
DRAWN: SLH
CHECKED: RW
DATE: 10/13/23

3R'S PARKING LOT
TEMPORARY DISTURBANCE AREA

CODE
AREA