

# US WIND MARYLAND OFFSHORE WIND PROJECT INDIAN RIVER BAY EXPORT CABLES DREDGING PLANS



**BLACK & VEATCH CORPORATION**  
OVERLAND PARK, KS  
PROJECT NO. 410735  
2024

**NOT TO BE USED  
FOR CONSTRUCTION**

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

 <b>BLACK &amp; VEATCH</b> Building a world of difference®		<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS	PROJECT	DRAWING NUMBER	REV
			410735	- 000	0
DESIGNER	DRAWN	COVER SHEET	CODE		
CHECKED	DATE		AREA		
DJ	SLH				
RW	10/13/23				

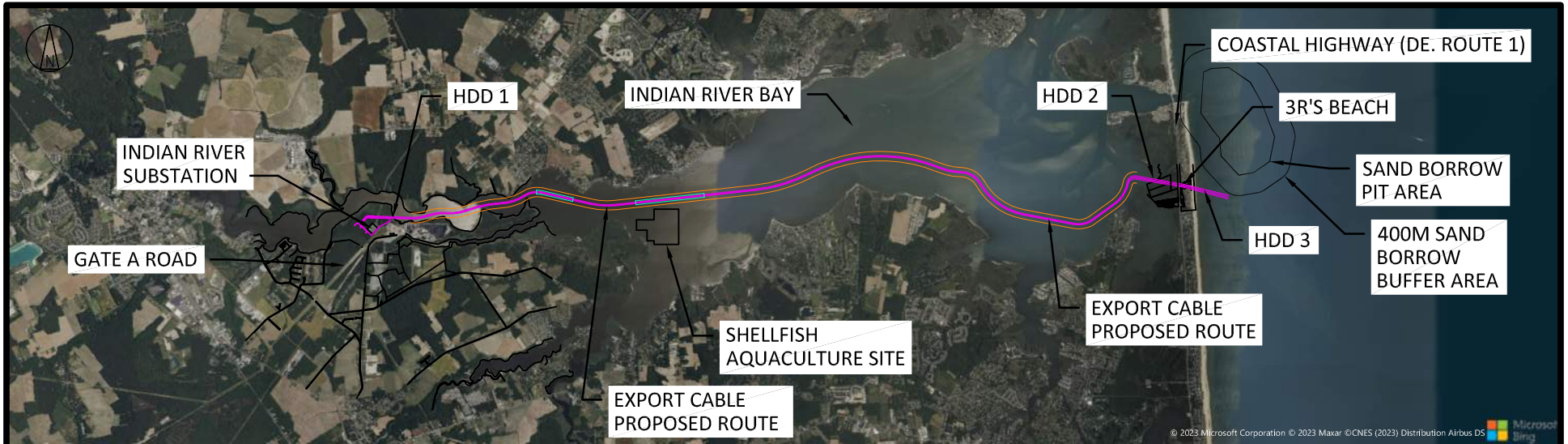
TITLE	DRAWING NO.	REV	TITLE	DRAWING NO.	REV
COVER SHEET	000	0	DUCT BANK SECTION	020	0
INDEX	001	2	TYPICAL CABLE CORRIDOR CROSS SECTION NEAR NAVIGATIONAL CHANNEL	021	0
VICINITY MAP & GENERAL NOTES	002	2			
KEY MAP	003	1	TYPICAL CABLE CORRIDOR CROSS SECTION AWAY FROM NAVIGATIONAL CHANNEL	022	0
PLAN & PROFILE 1 - INDIAN RIVER BAY ROUTE	004	0			
PLAN & PROFILE 2 - INDIAN RIVER BAY ROUTE	005	0	HDD SECTION	023	0
PLAN & PROFILE 3 - INDIAN RIVER BAY ROUTE	006	0	SPLICING VAULT ON LAND -PLAN VIEW	024	0
PLAN & PROFILE 4 - INDIAN RIVER BAY ROUTE	007	0	SPLICING VAULT ON LAND -SECTION VIEW	025	0
PLAN & PROFILE 5 - INDIAN RIVER BAY ROUTE	008	0	TRANSITION VAULT DETAILS -NOTES	026	0
PLAN & PROFILE 6 - INDIAN RIVER BAY ROUTE	009	0	TRANSITION VAULT DETAILS -PLAN VIEW	027	0
PLAN & PROFILE 7 - INDIAN RIVER BAY ROUTE	010	0	TRANSITION VAULT DETAILS -SECTION VIEW	028	0
PLAN & PROFILE 8 - INDIAN RIVER BAY ROUTE	011	0	TRANSITION VAULT DETAILS -SECTION 2 VIEW	029	0
PLAN & PROFILE 9 - INDIAN RIVER BAY ROUTE	012	0	TRANSITION VAULT DETAILS -SECTION 3 VIEW	030	0
PLAN & PROFILE 10 - INDIAN RIVER BAY ROUTE	013	0	HDD 1 PLAN & PROFILE WEST LANDING	031	0
PLAN & PROFILE 11 - INDIAN RIVER BAY ROUTE	014	1	HDD 2 PLAN & PROFILE EAST LANDING - IRB	032	2
PLAN & PROFILE 12 - INDIAN RIVER BAY ROUTE	015	1	HDD 3 PLAN & PROFILE EAST LANDING - ATLANTIC	033	1
PLAN & PROFILE 13 - INDIAN RIVER BAY ROUTE	016	1	3R'S PARKING LOT PERMANENT DISTURBANCE AREA	034	1
PLAN & PROFILE 14 - INDIAN RIVER BAY ROUTE	017	1	3R'S PARKING LOT TEMPORARY DISTURBANCE AREA	035	1
ONSHORE PLAN & PROFILE 3R'S PARKING LOT	018	1	WEST LANDING PERMANENT DISTURBANCE AREA	036	1
ONSHORE PLAN & PROFILE 3R'S PARKING LOT	019	0	WEST LANDING TEMPORARY DISTURBANCE AREA	037	1

**NOT TO BE USED  
FOR CONSTRUCTION**

2	03/25/24	ISSUED FOR PERMITTING	SLH	DJ	RW			0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		
1	03/07/24	ISSUED FOR PERMITTING	SLH	DJ	RW			NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

 <b>BLACK &amp; VEATCH</b> Building a world of difference®		<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS				PROJECT      DRAWING NUMBER 410735 - 001		REV 2
DESIGNER DJ	DRAWN SLH	<b>INDEX</b>				CODE		
CHECKED RW	DATE 10/13/23					AREA		

**Project Route Overview  
and  
General Notes**

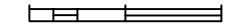


PLAN VIEW

**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'

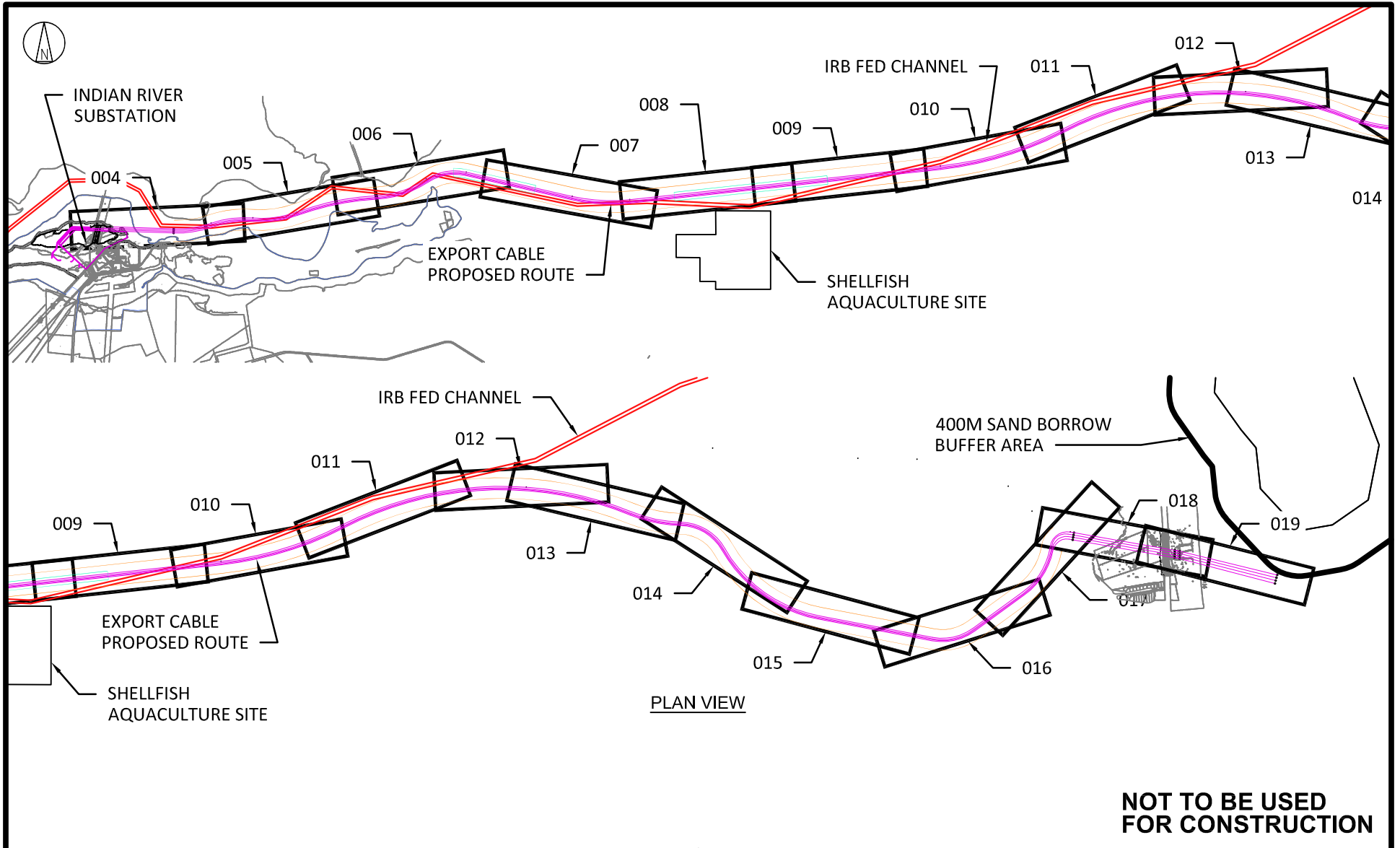
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1	03/07/24	ISSUED FOR PERMITTING	SLH	DJ	RW		NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

	<b>US WIND</b>				PROJECT	DRAWING NUMBER	REV	
	INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS				410735	- 002	2	
DESIGNER	DRAWN		VICINITY MAP & GENERAL NOTES				CODE	
DJ	SLH						AREA	
CHECKED	DATE							
RW	10/13/23							



# **Plan and Profile Drawing Sheet Key Map**



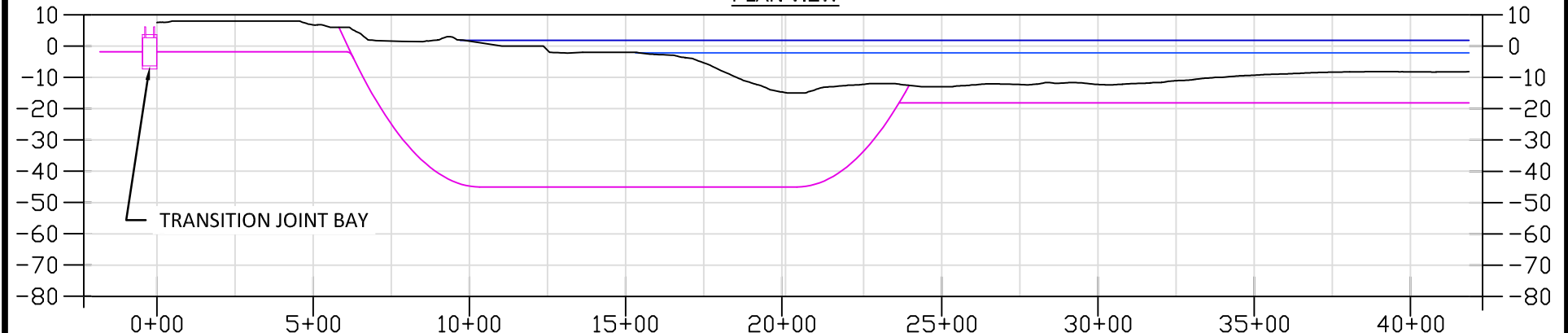
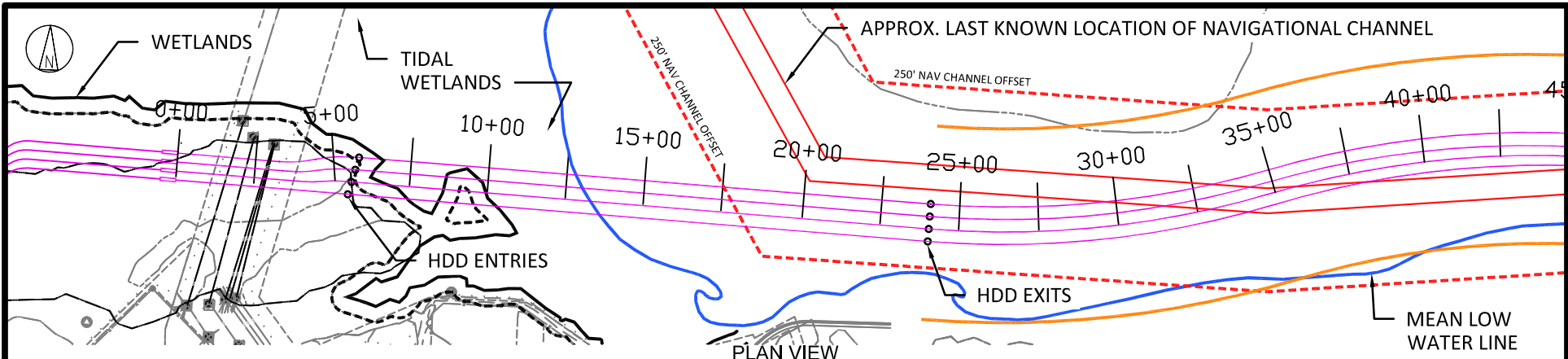
**NOT TO BE USED FOR CONSTRUCTION**

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								NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS		PROJECT 410735 - 003	DRAWING NUMBER 410735 - 003	REV 1
	DESIGNER DJ	DRAWN SLH	KEY MAP		CODE
CHECKED RW	DATE 10/13/23	AREA			

# **Plan and Profiles**

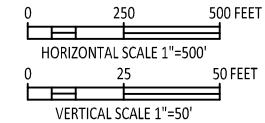
## **Indian River Bay**



**LEGEND:**

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

DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
0+00	40+00	CAMPAIGN 1	0 CU. YDS
		CAMPAIGN 2	0 CU. YDS



**NOT TO BE USED FOR CONSTRUCTION**

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



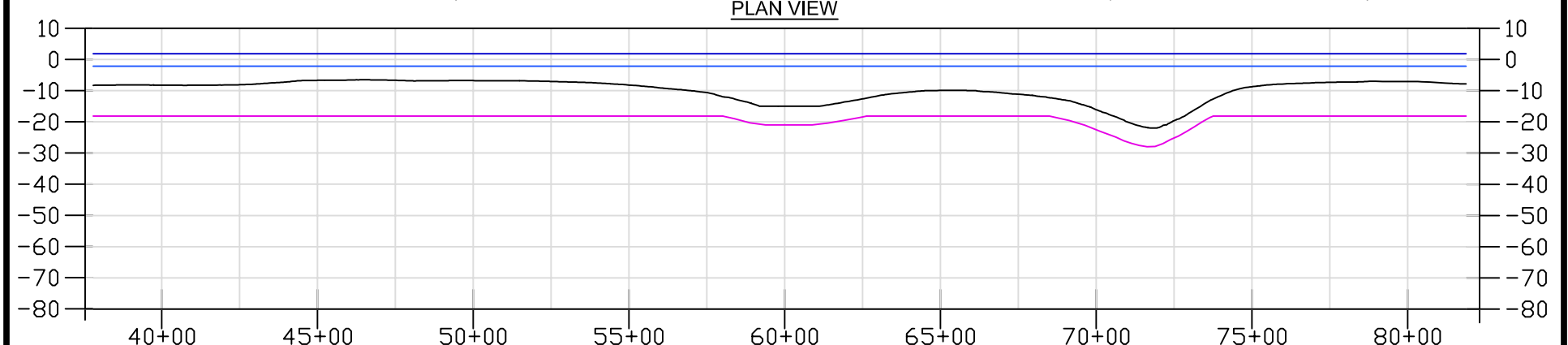
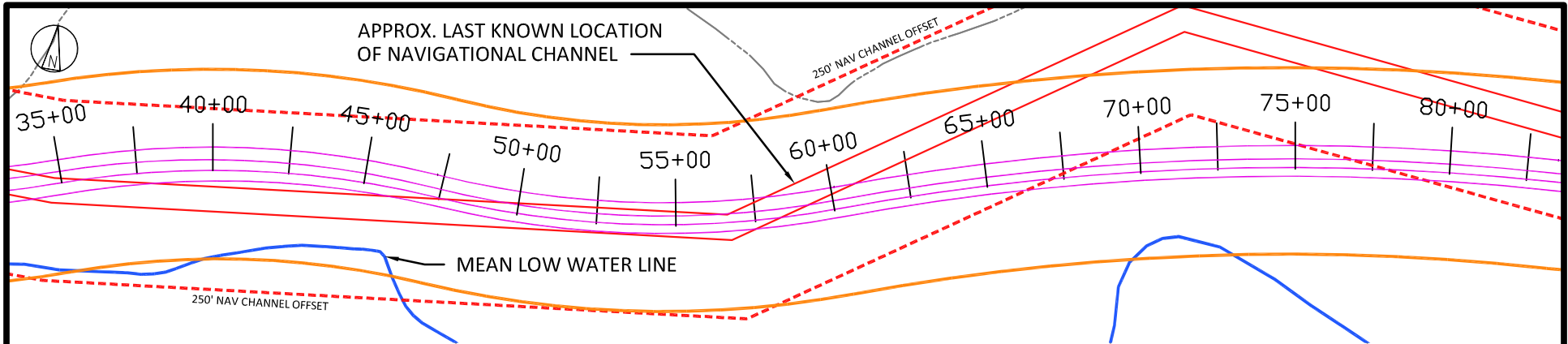
**US WIND**  
INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS

PROJECT	DRAWING NUMBER	REV
410735 - 004		0

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

**PLAN & PROFILE 1**  
INDIAN RIVER BAY ROUTE

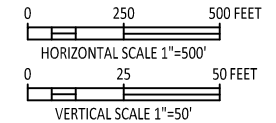
CODE	
AREA	



**LEGEND:**

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

DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
40+00	80+00	CAMPAIGN 1	0 CU. YDS
		CAMPAIGN 2	0 CU. YDS



**NOT TO BE USED FOR CONSTRUCTION**

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



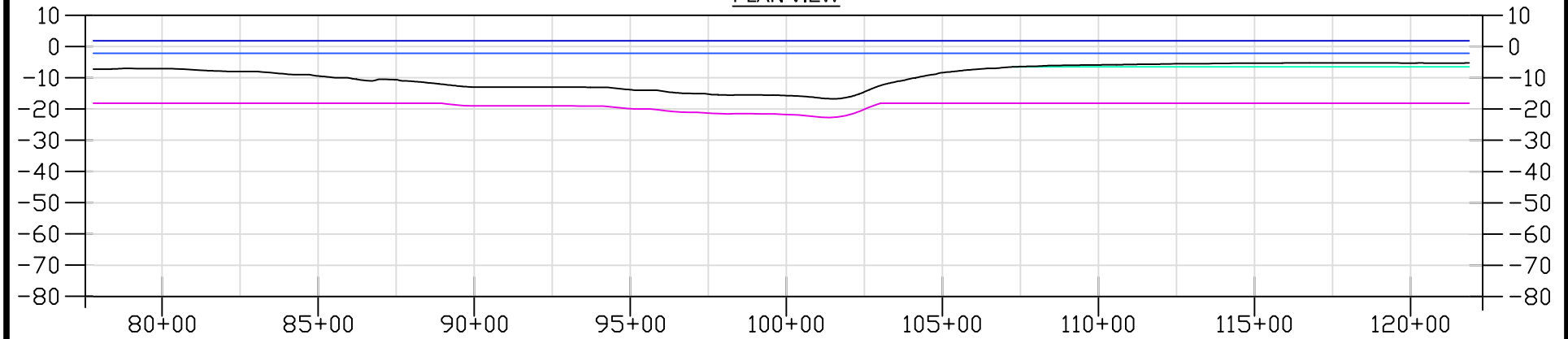
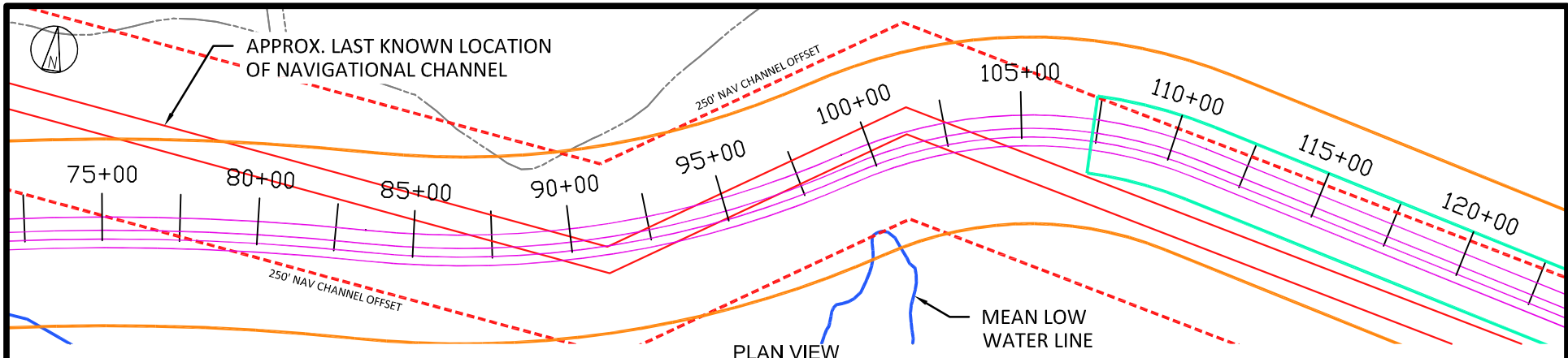
**US WIND**  
INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS

PROJECT	DRAWING NUMBER	REV
410735 - 005	410735 - 005	0

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

**PLAN & PROFILE 2**  
INDIAN RIVER BAY ROUTE

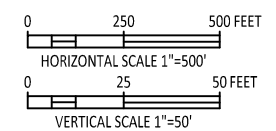
CODE	
AREA	



**LEGEND:**

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

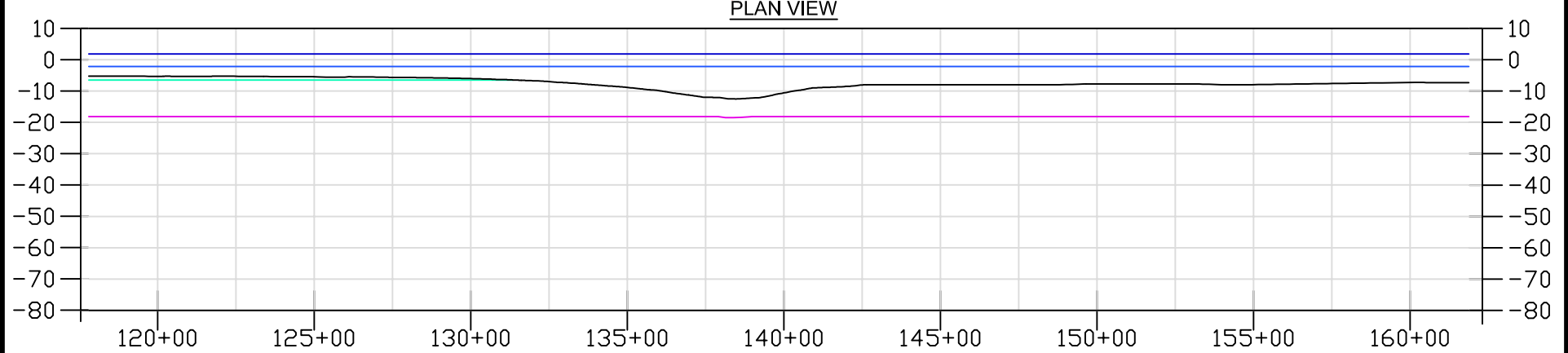
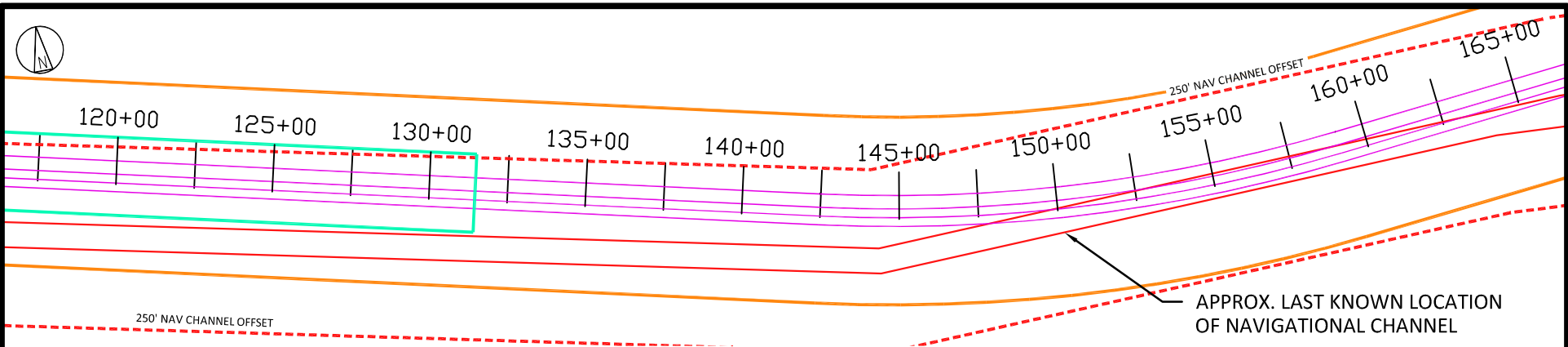
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STA. START	STA. END	VOLUMES BY ROUTE	
80+00	120+00	CAMPAIGN 1	10,417 CU. YDS
		CAMPAIGN 2	14,931 CU. YDS



**NOT TO BE USED FOR CONSTRUCTION**

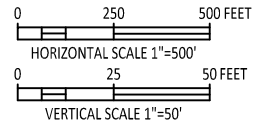
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	DESIGNER DJ	DRAWN SLH	<b>PLAN &amp; PROFILE 3</b> INDIAN RIVER BAY ROUTE		CODE
CHECKED RW	DATE 10/13/23			AREA	



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

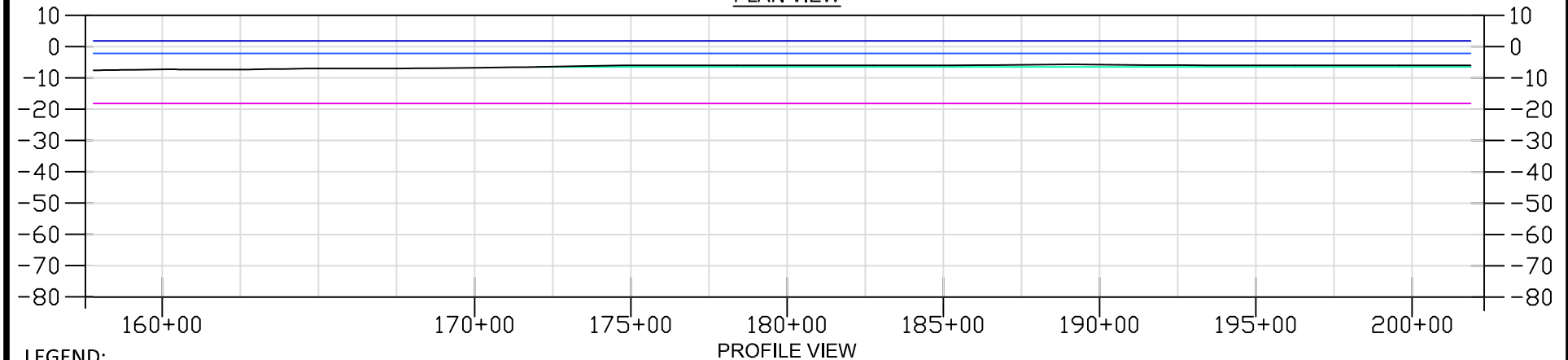
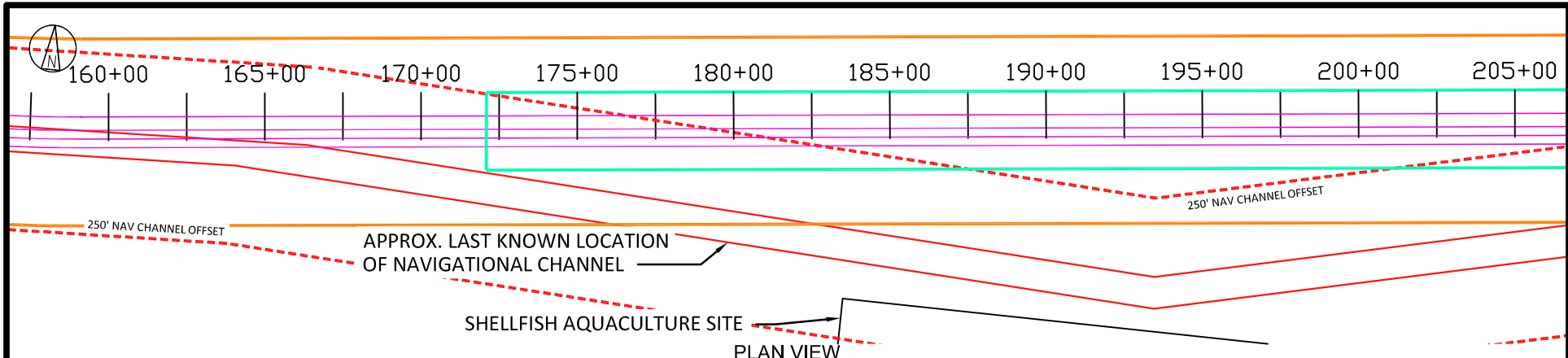
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STA. START	STA. END	VOLUMES BY ROUTE	
120+00	160+00	CAMPAIGN 1	7,778 CU. YDS
		CAMPAIGN 2	11,148 CU. YDS



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								NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

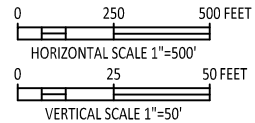
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	DESIGNER DJ	DRAWN SLH	PLAN & PROFILE 4 INDIAN RIVER BAY ROUTE		CODE
CHECKED RW	DATE 10/13/23			AREA	



**LEGEND:**

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

DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
160+00	200+00	CAMPAIGN 1	7,778 CU. YDS
		CAMPAIGN 2	11,148 CU. YDS

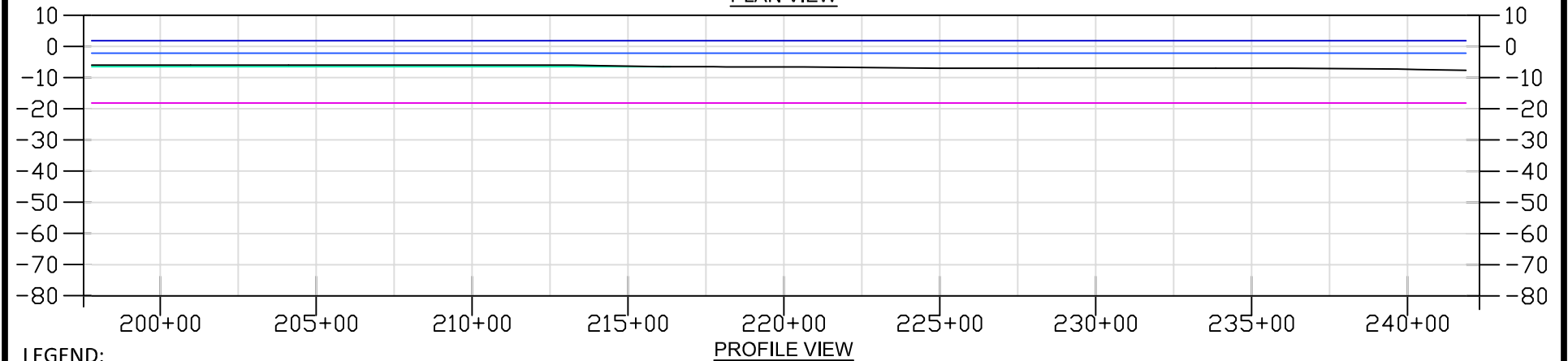
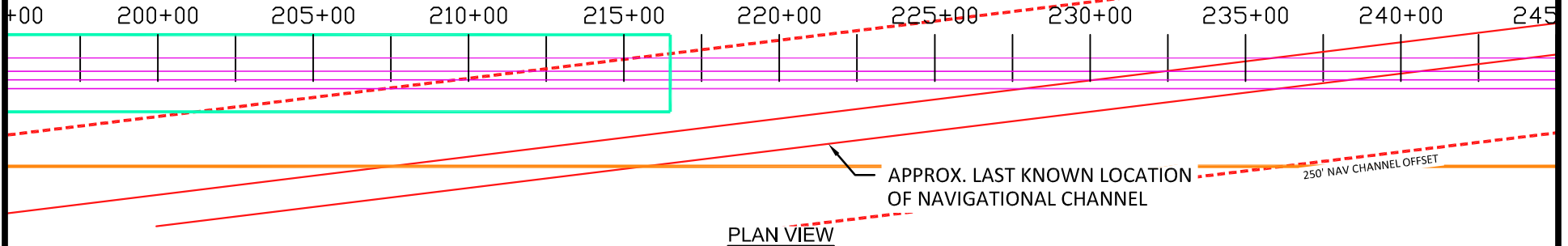


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							0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		
							NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

 <b>BLACK &amp; VEATCH</b> Building a world of difference®	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS		PROJECT <b>410735 - 008</b>	DRAWING NUMBER <b>008</b>	REV <b>0</b>
	DESIGNER DJ	DRAWN SLH	<b>PLAN &amp; PROFILE 5</b> INDIAN RIVER BAY ROUTE		CODE 
CHECKED RW	DATE 10/13/23			AREA 	

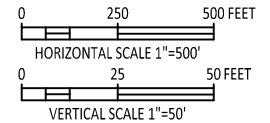




**LEGEND:**

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

DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
200+00	240+00	CAMPAIGN 1	4,306 CU. YDS
		CAMPAIGN 2	6,171 CU. YDS



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



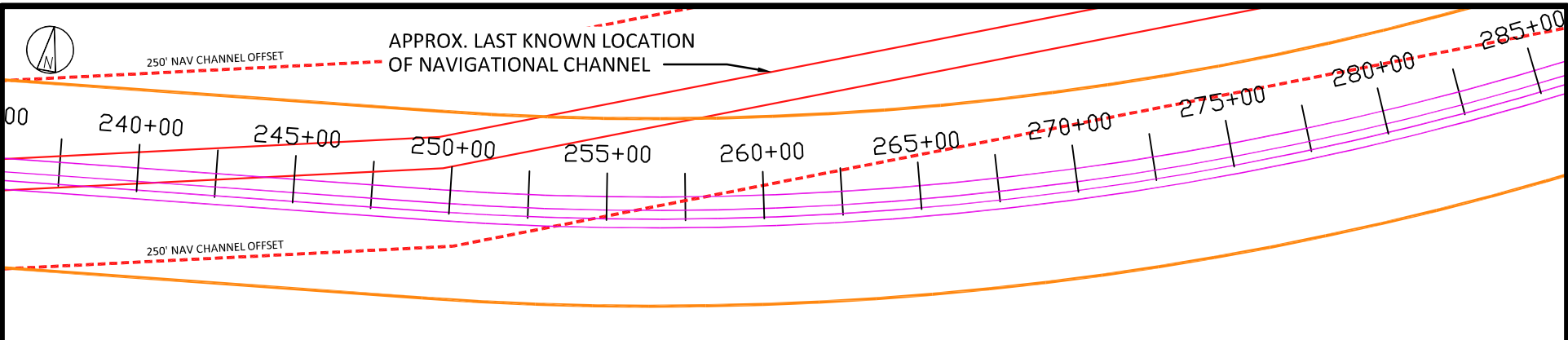
**US WIND**  
INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS

PROJECT	DRAWING NUMBER	REV
410735 - 009		0

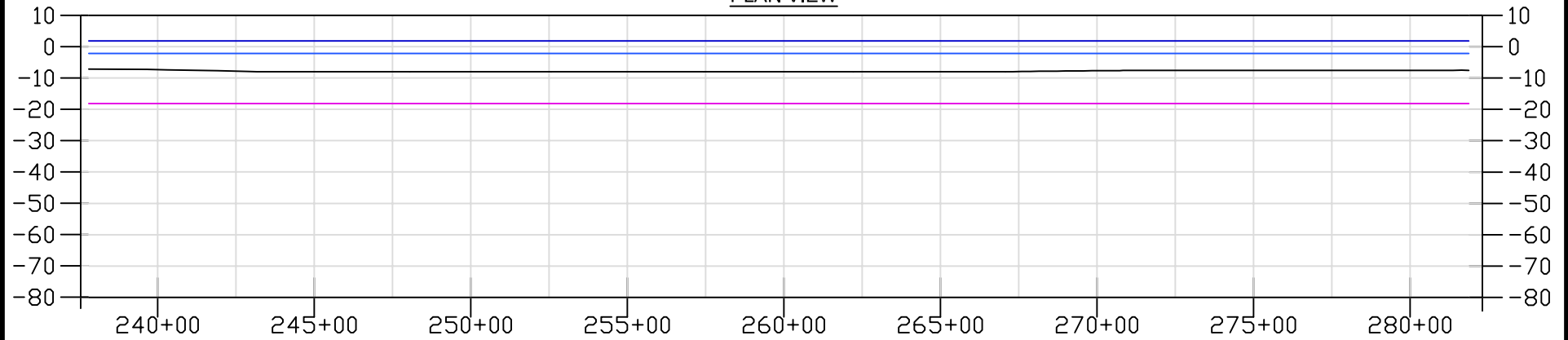
DESIGNER	DRAWN
DJ	SLH
CHECKED	DATE
RW	10/13/23

**PLAN & PROFILE 6**  
INDIAN RIVER BAY ROUTE

CODE	
AREA	



PLAN VIEW

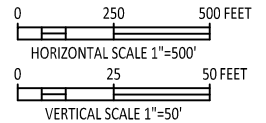


PROFILE VIEW

LEGEND:

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

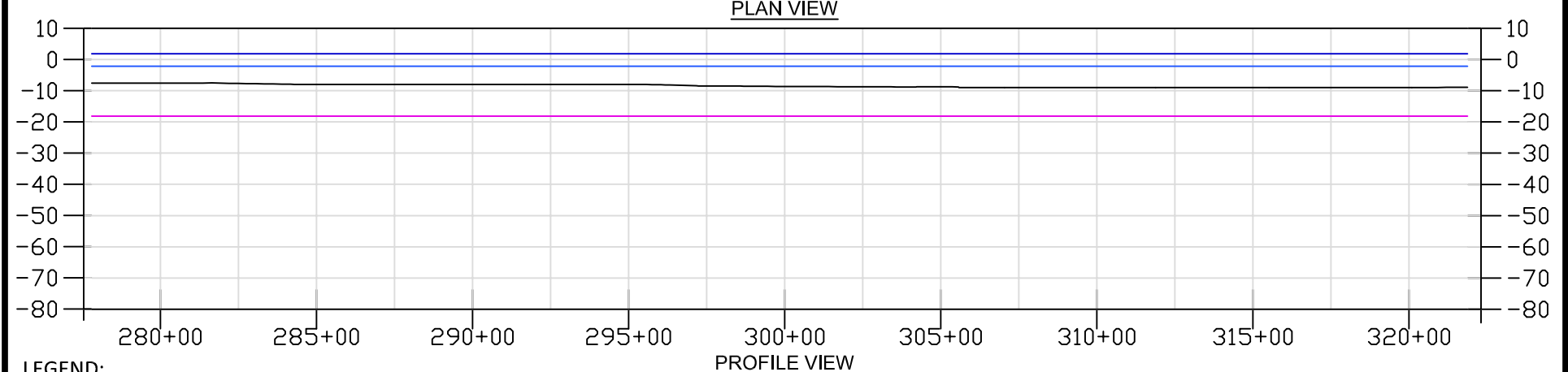
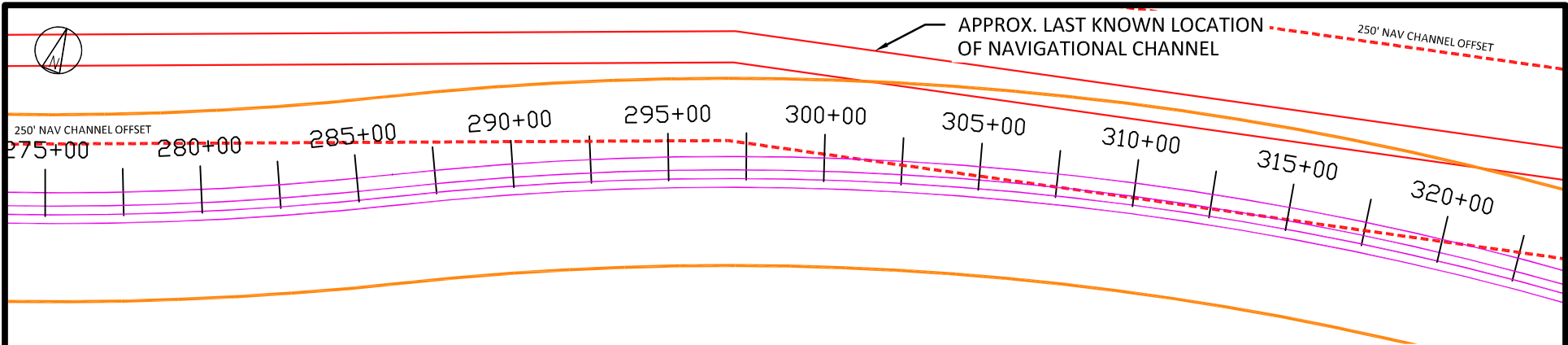
DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
240+00	280+00	CAMPAIGN 1	0 CU. YDS
		CAMPAIGN 2	0 CU. YDS



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									NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE APP

	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS		PROJECT	DRAWING NUMBER	REV
			410735	- 010	0
DESIGNER	DRAWN	PLAN & PROFILE 7 INDIAN RIVER BAY ROUTE		CODE	
DJ	SLH			AREA	
CHECKED	DATE				
RW	10/13/23				

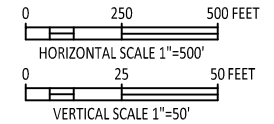


**LEGEND:**

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

PROFILE VIEW

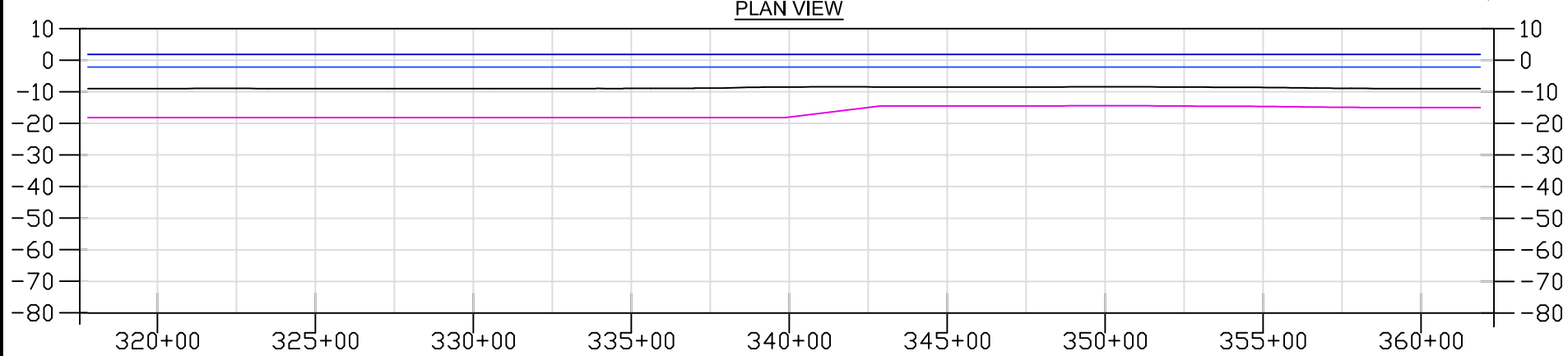
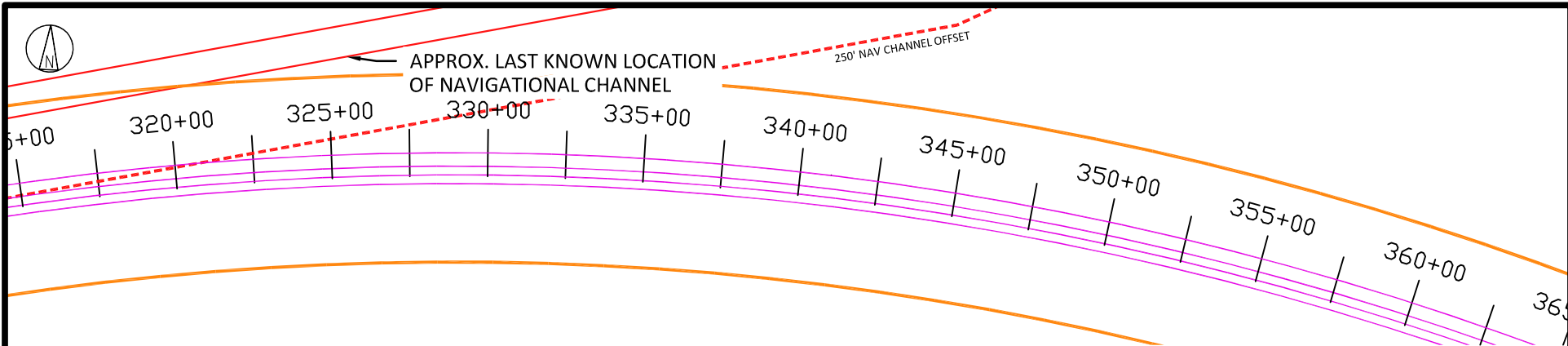
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STA. START	STA. END	VOLUMES BY ROUTE	
280+00	320+00	CAMPAIGN 1	0 CU. YDS
		CAMPAIGN 2	0 CU. YDS



**NOT TO BE USED FOR CONSTRUCTION**

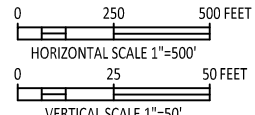
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	<b>US WIND</b>		PROJECT	DRAWING NUMBER	REV
	INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS		410735 - 011	0	
DESIGNER	DRAWN	PLAN & PROFILE 8 INDIAN RIVER BAY ROUTE		CODE	
CHECKED	DATE			AREA	
DJ	SLH	RW	10/13/23		



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

DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
320+00	360+00	CAMPAIGN 1	0 CU. YDS
		CAMPAIGN 2	0 CU. YDS



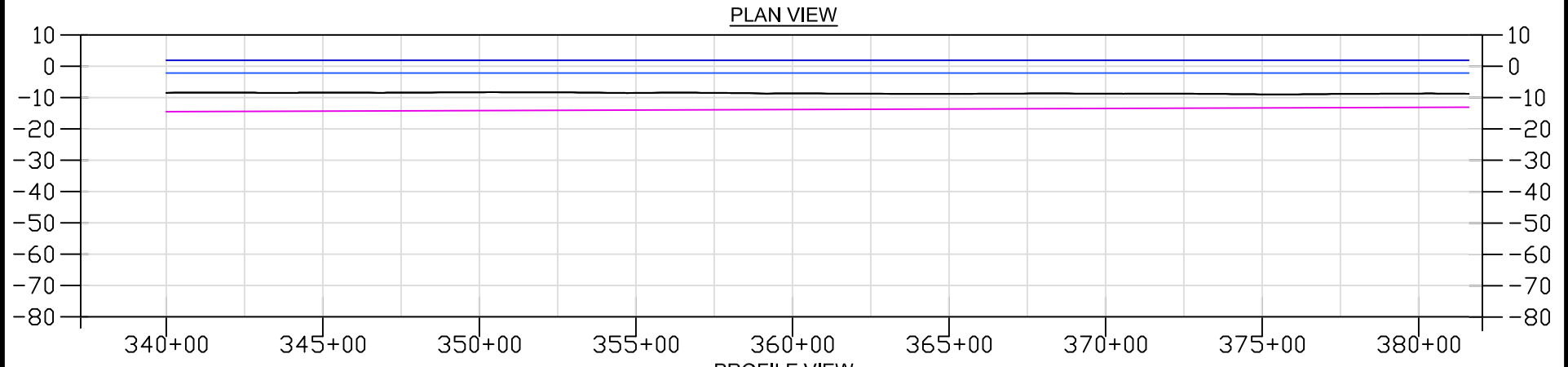
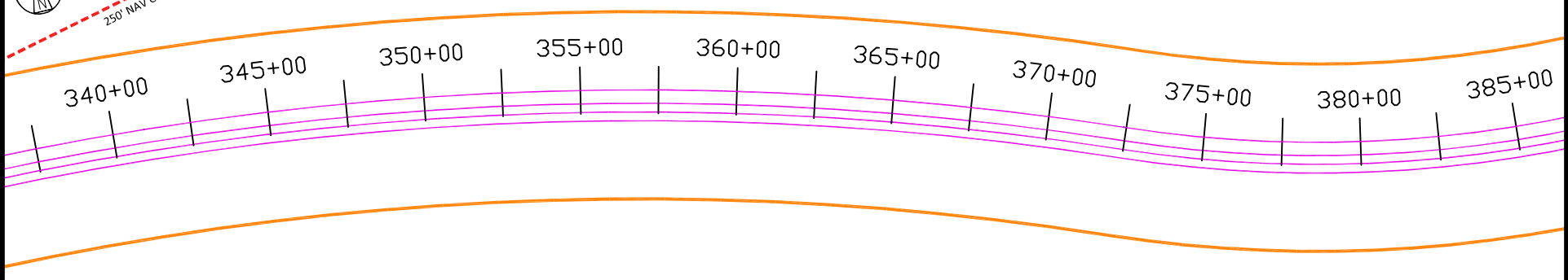
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	NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP	

<b>BLACK &amp; VEATCH</b> Building a world of difference®	<h3 style="margin: 0;">US WIND</h3> <p style="margin: 0;">INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS</p>	PROJECT <b>410735 - 012</b>	DRAWING NUMBER <b>012</b>	REV <b>0</b>
	<h4 style="margin: 0;">PLAN &amp; PROFILE 9</h4> <p style="margin: 0;">INDIAN RIVER BAY ROUTE</p>	CODE AREA		
DESIGNER DJ	DRAWN SLH			
CHECKED RW	DATE 10/13/23			



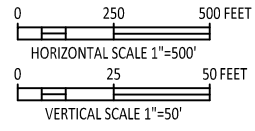
250' NAV CHANNEL OFFSET



**LEGEND:**

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

DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
340+00	380+00	CAMPAIGN 1	0 CU. YDS
		CAMPAIGN 2	0 CU. YDS



NOT TO BE USED  
FOR CONSTRUCTION

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

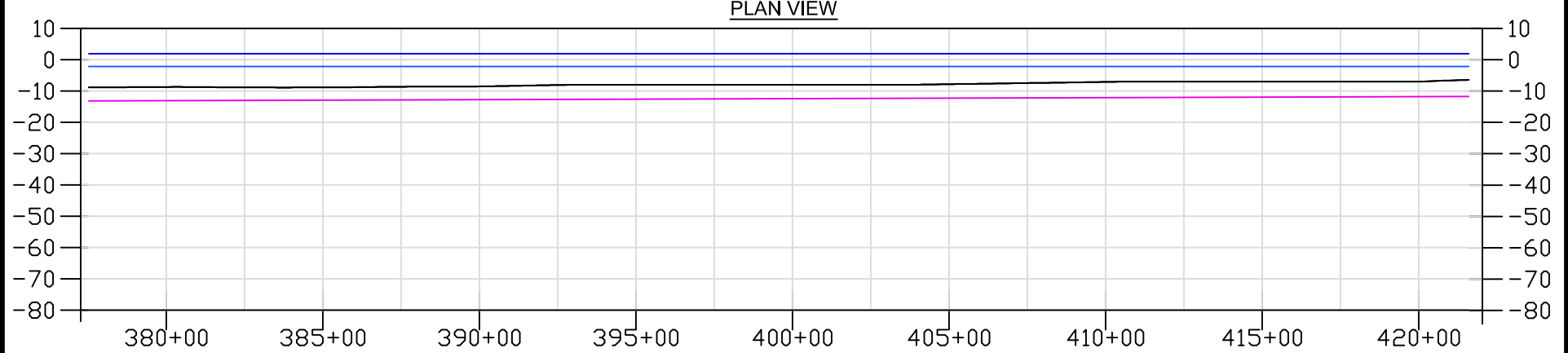
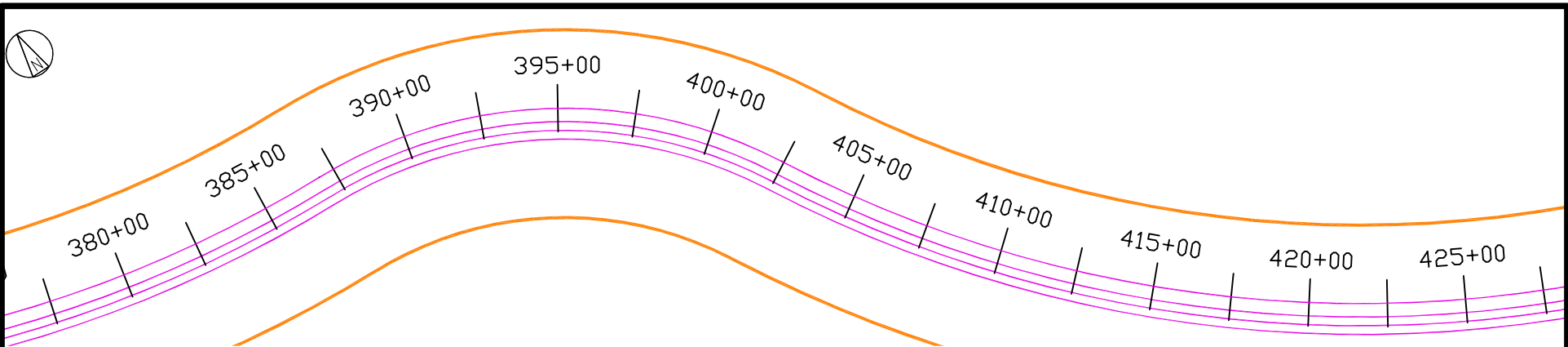
**BLACK & VEATCH**  
Building a world of difference®

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

US WIND  
INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS

PLAN & PROFILE 10  
INDIAN RIVER BAY ROUTE

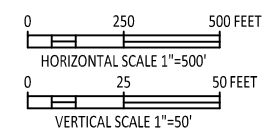
PROJECT	DRAWING NUMBER	REV
410735 - 013	410735 - 013	0
CODE		
AREA		



**LEGEND:**

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

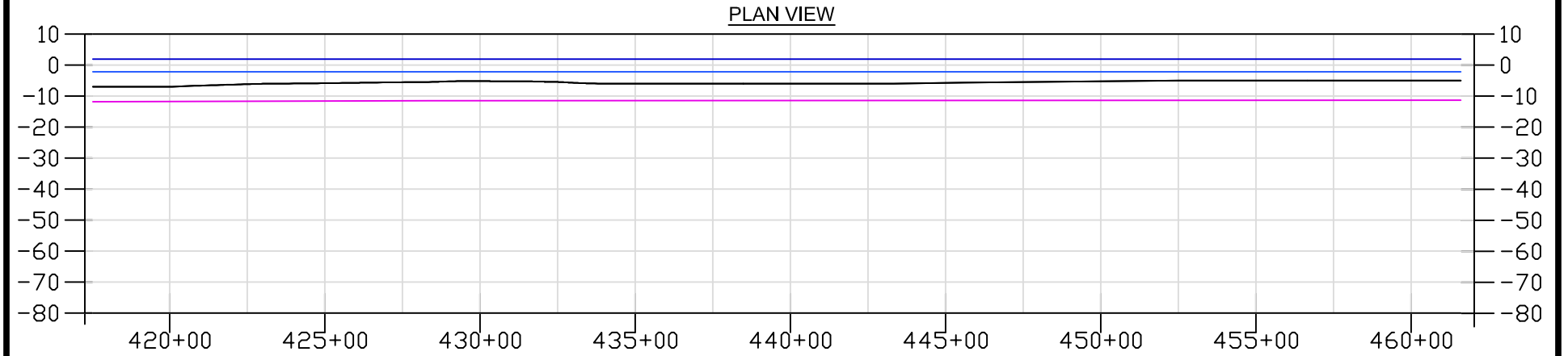
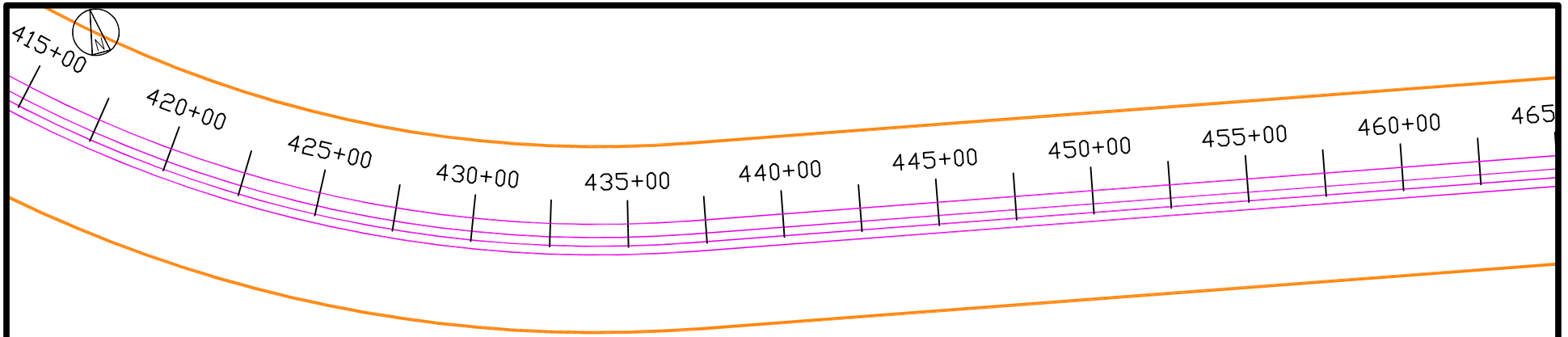
DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
380+00	420+00	CAMPAIGN 1	0 CU. YDS
		CAMPAIGN 2	0 CU. YDS



**NOT TO BE USED FOR CONSTRUCTION**

1	03/07/24	ISSUED FOR PERMITTING	SLH	DJ	RW			0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		
								NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

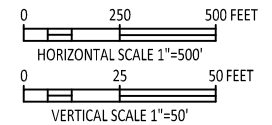
	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS		PROJECT 410735 - 014	DRAWING NUMBER 014	REV 1
	DESIGNER DJ	DRAWN SLH	<b>PLAN &amp; PROFILE 11</b> INDIAN RIVER BAY ROUTE		CODE
CHECKED RW	DATE 10/13/23			AREA	



**LEGEND:**

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

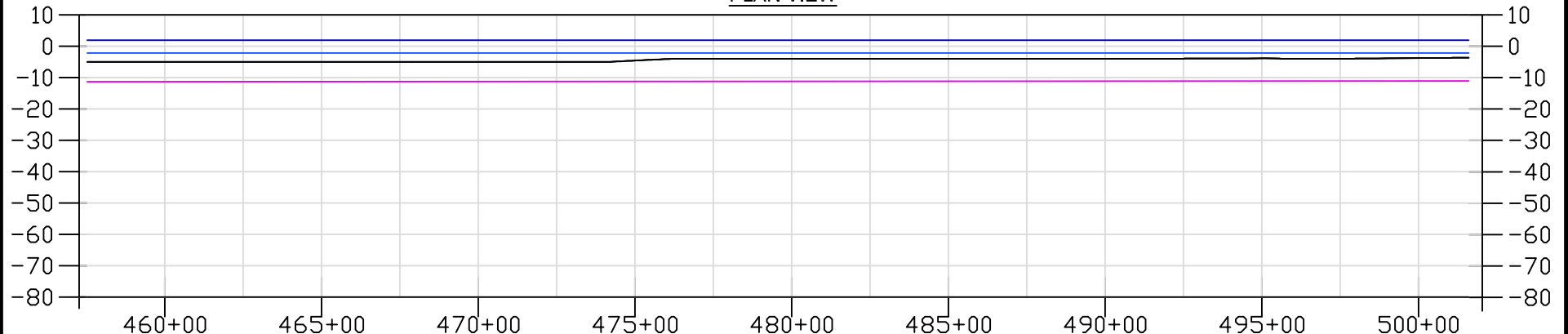
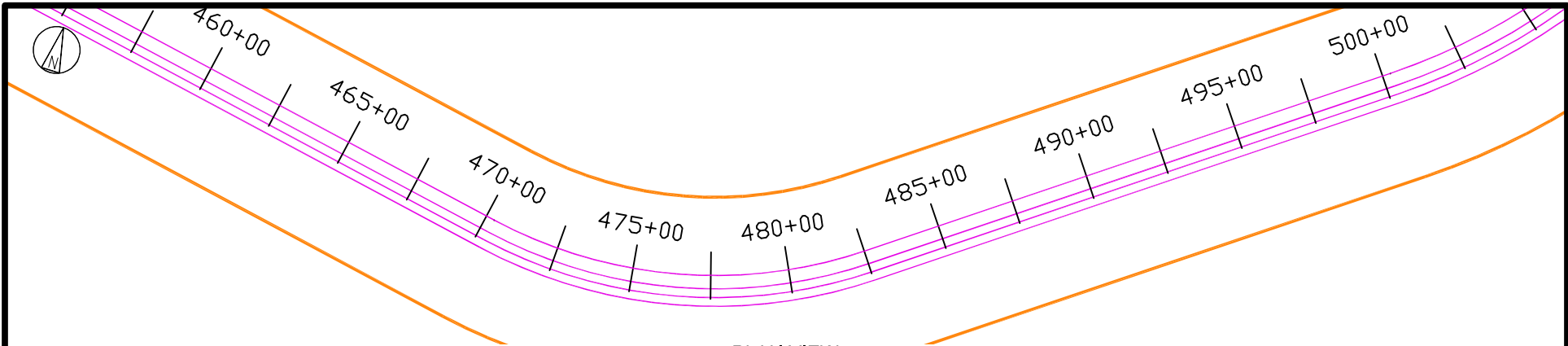
DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
420+00	460+00	CAMPAIGN 1	0 CU. YDS
		CAMPAIGN 2	0 CU. YDS



**NOT TO BE USED FOR CONSTRUCTION**

1	03/07/24	ISSUED FOR PERMITTING	SLH	DJ	RW	NO	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		
							DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

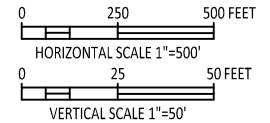
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	PLAN & PROFILE 12 INDIAN RIVER BAY ROUTE	410735 - 015	1		
DESIGNER	DRAWN	CODE			
CHECKED	DATE	AREA			
DJ	SLH				
RW	10/13/23				



**LEGEND:**

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

DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
460+00	500+00	CAMPAIGN 1	0 CU. YDS
		CAMPAIGN 2	0 CU. YDS

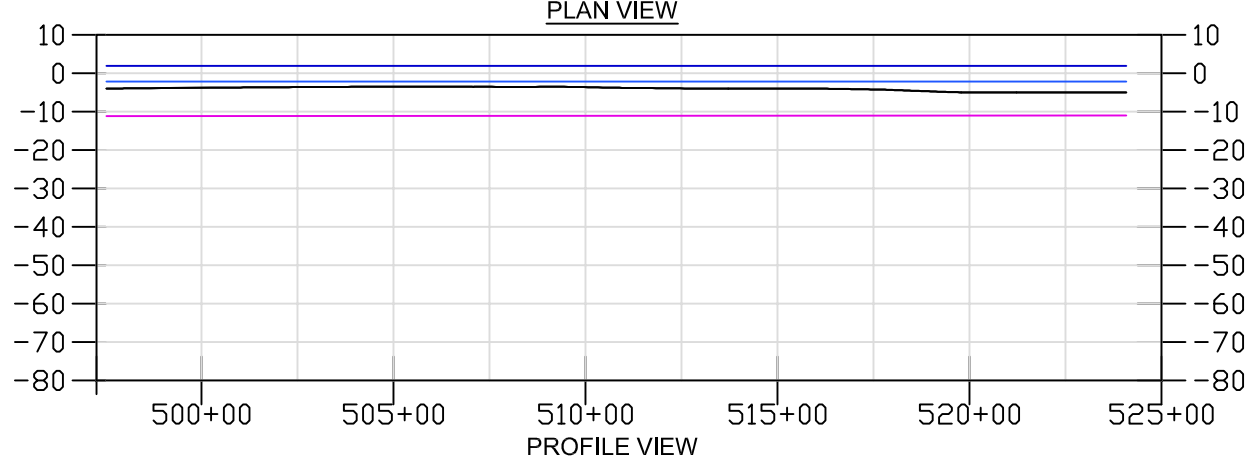
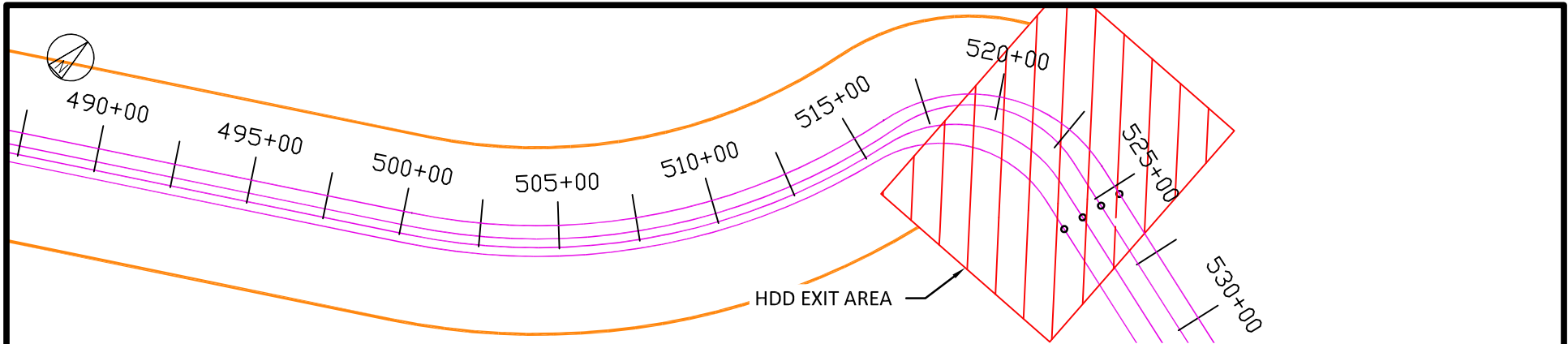


**NOT TO BE USED FOR CONSTRUCTION**

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						NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS	PROJECT	DRAWING NUMBER	REV
	<b>PLAN &amp; PROFILE 13</b> INDIAN RIVER BAY ROUTE	410735 - 016	1	
DESIGNER	DRAWN	CODE		
DJ	SLH	AREA		
CHECKED	DATE			
RW	10/13/23			

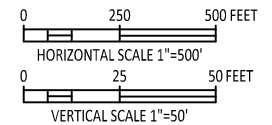




**LEGEND:**

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

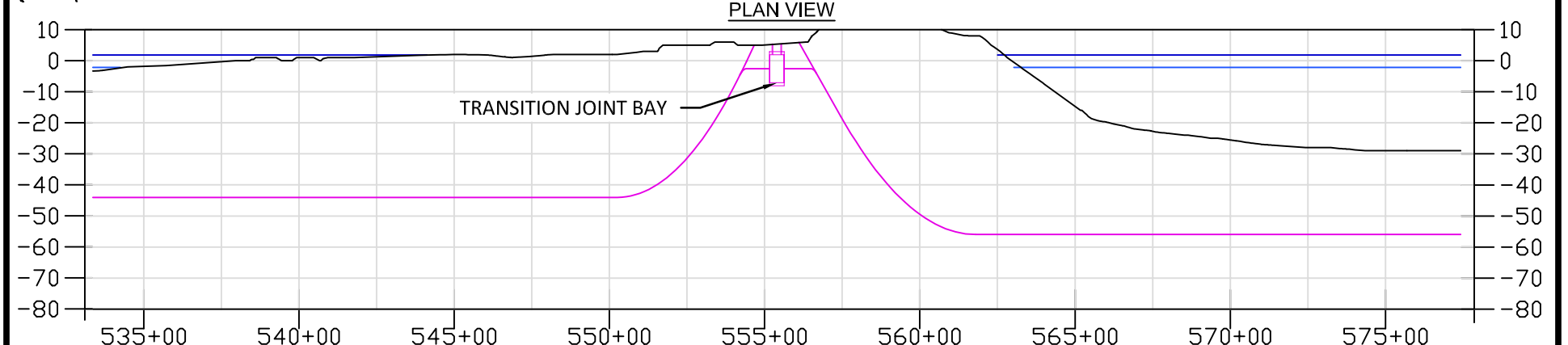
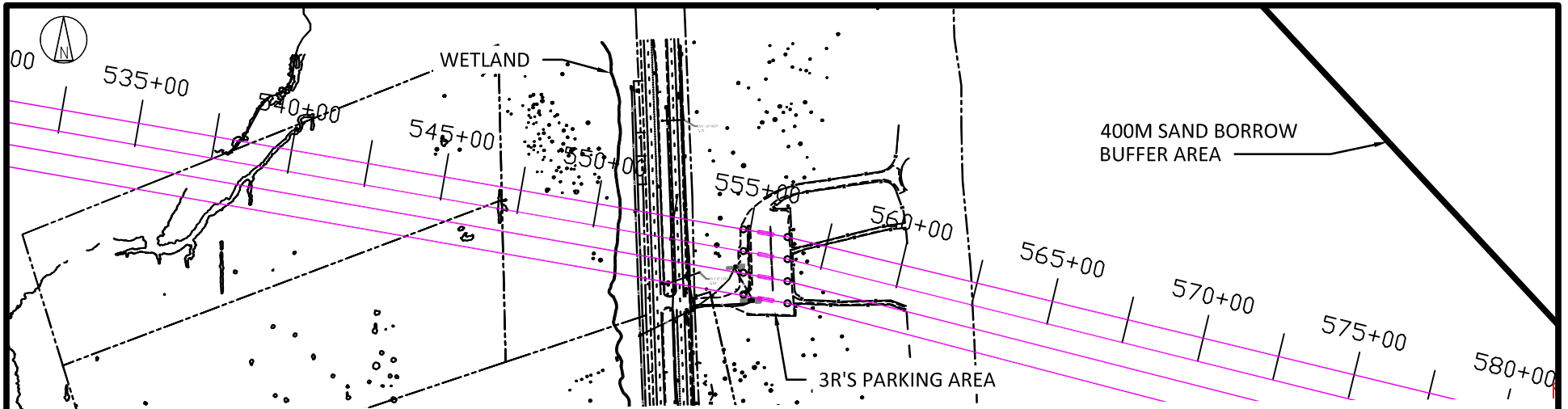
DREDGING VOLUMES			
STA. START	STA. END	VOLUMES BY ROUTE	
500+00	525+00	CAMPAIGN 1	0 CU. YDS
		CAMPAIGN 2	0 CU. YDS



**NOT TO BE USED FOR CONSTRUCTION**

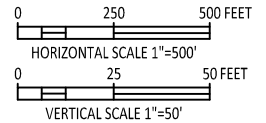
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						NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

	<b>US WIND</b>	PROJECT	DRAWING NUMBER	REV
	INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS	410735 - 017	017	1
DESIGNER DJ	DRAWN SLH	CODE		
CHECKED RW	DATE 10/13/23	AREA		



**LEGEND:**

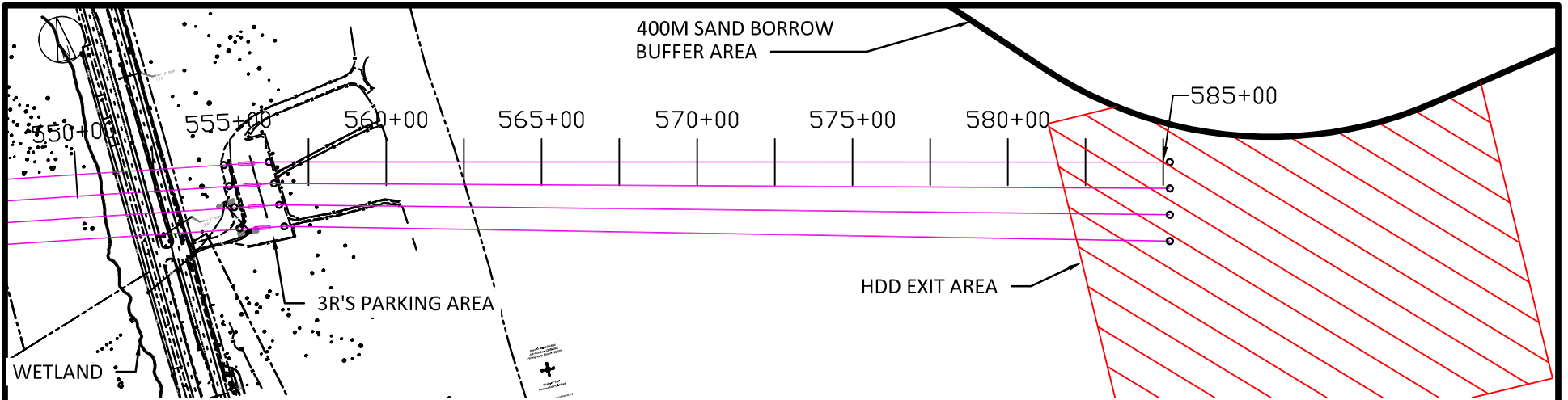
- EXPORT CABLE
- BARGE ACCESS DREDGE LINE (DOES NOT INCLUDE SIDE SLOPES)
- TEMPORARY WORK AREA
- MHHW
- MLLW
- - - 250' NAV CHANNEL OFFSET



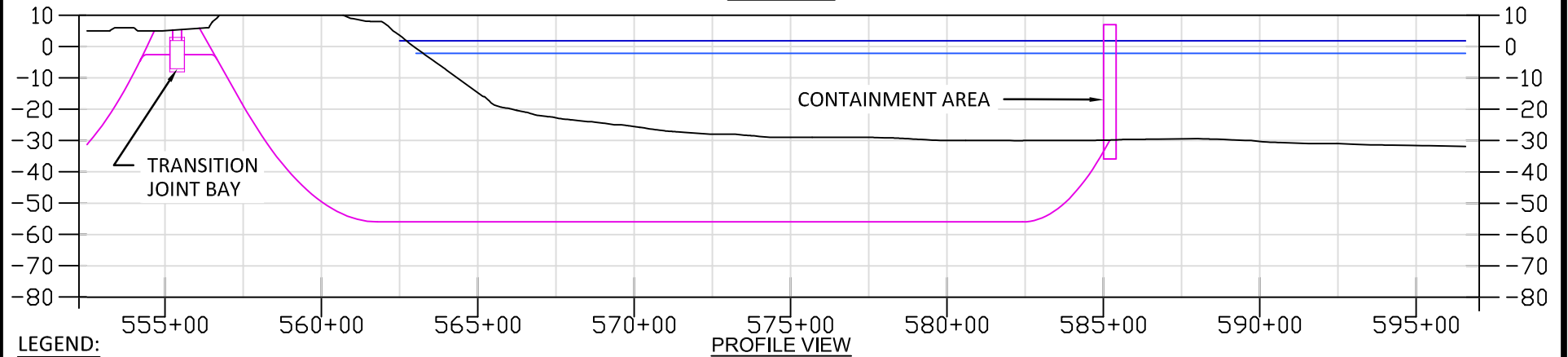
**NOT TO BE USED FOR CONSTRUCTION**

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						NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS		PROJECT	DRAWING NUMBER	REV
			410735 - 018	018	1
DESIGNER	DRAWN		CODE		
CHECKED	DATE	ONSHORE PLAN & PROFILE 3R'S PARKING LOT		AREA	
DJ	SLH				
RW	10/13/23				



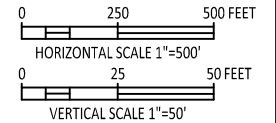
PLAN VIEW



PROFILE VIEW

LEGEND:

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



**NOT TO BE USED FOR CONSTRUCTION**

								0	03/25/24	ISSUED FOR PERMITTING	SLH	DJ	RW		
								NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP



**US WIND**  
INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS

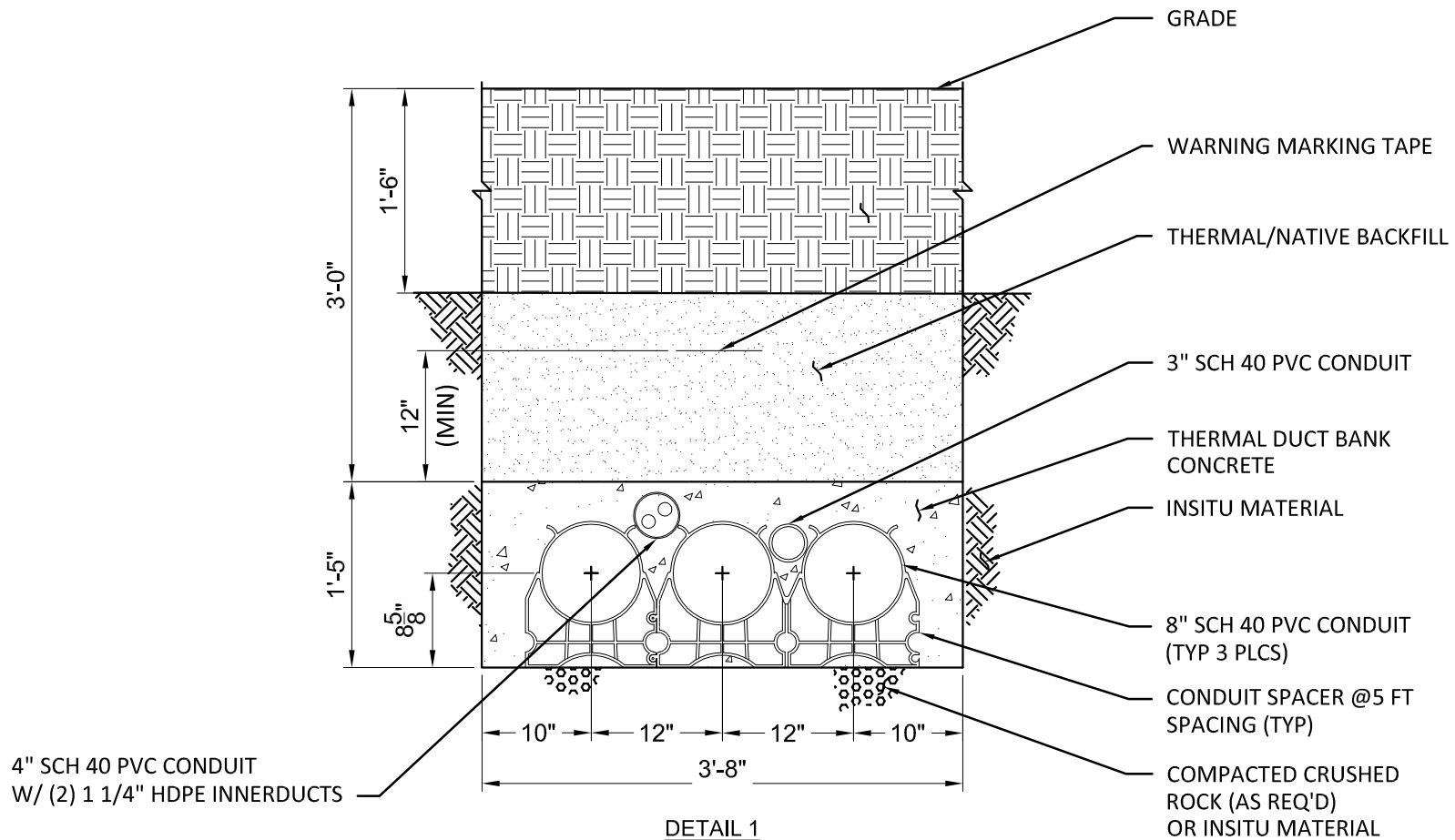
PROJECT	DRAWING NUMBER	REV
410735 - 019		0

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

ONSHORE PLAN & PROFILE 3R'S PARKING LOT

CODE	
AREA	

**Ductbank Cross Section**  
**(Westside Land-based From Transition**  
**Vault To Substation)**



DETAIL 1  
8" PVC CONDUIT  
1 X 3 DUCT BANK  
SCALE: 3/4" = 1'-0"

**NOT TO BE USED  
FOR CONSTRUCTION**

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



**US WIND**  
INDIAN RIVER BAY - EXPORT CABLES

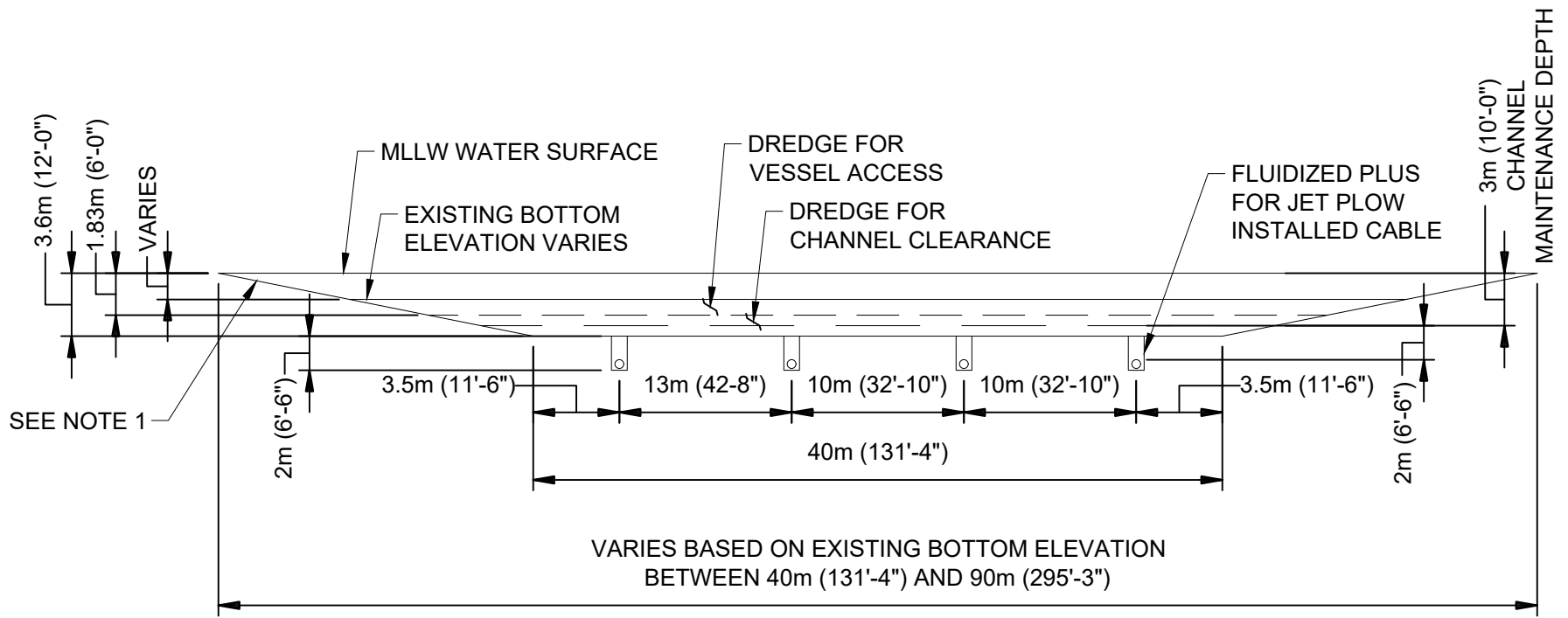
PROJECT	DRAWING NUMBER	REV
410735 - 020		0

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

DUCT BANK SECTION

CODE	
AREA	

# **Typical Submarine Cable Trench Details During Installation**



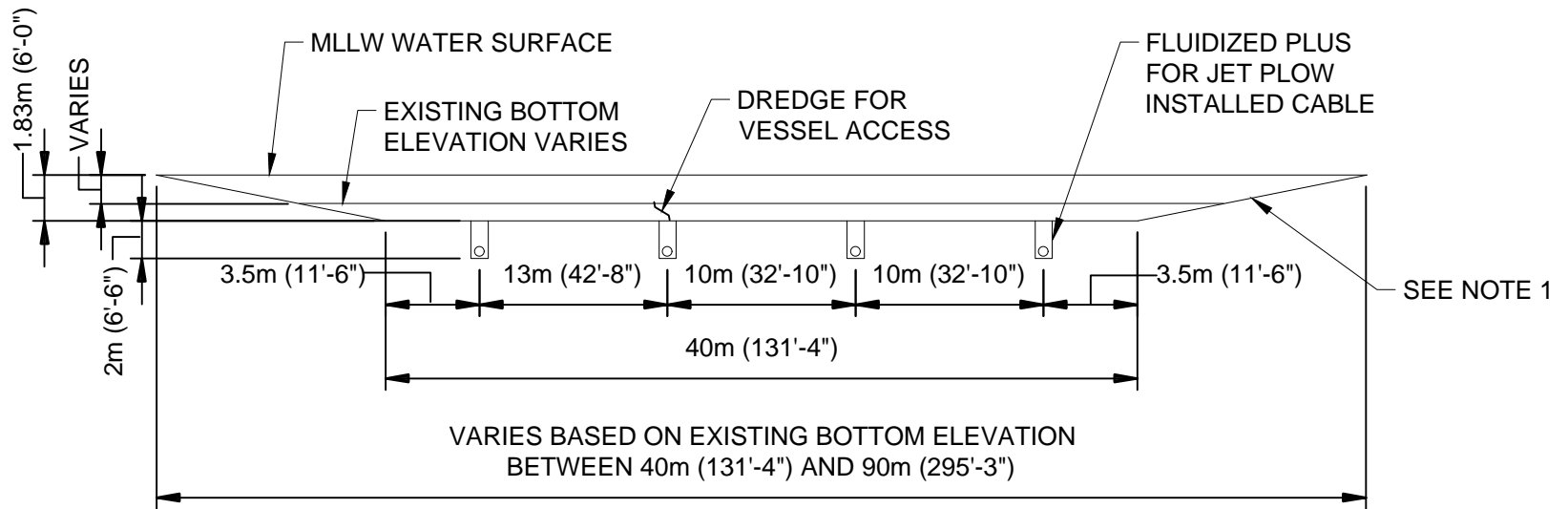
DETAIL A  
IN WATER CABLE INSTALLATION CROSS-SECTION  
NEAR EXISTING CHANNEL  
 SCALE: 1/32" = 1'-0"

**NOTES:**

- SLOPED SIDE, ANGLE TO BE DETERMINED, EXPECT TO BE BETWEEN 1:5 AND 1:10.

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

 <b>BLACK &amp; VEATCH</b> Building a world of difference®	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES				PROJECT 410735 - 021	DRAWING NUMBER 021	REV 0
	DESIGNER DJ	DRAWN SLH	TYPICAL CABLE CORRIDOR CROSS SECTION NEAR NAVIGATIONAL CHANNEL				CODE
CHECKED RW	DATE 10/13/23					AREA	



**DETAIL B**  
**IN WATER CABLE INSTALLATION CROSS-SECTION**  
**(AWAY FROM NAVIGATIONAL CHANNEL)**

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

**NOTES:**

- SLOPED SIDE, ANGLE TO BE DETERMINED, EXPECT TO BE BETWEEN 1:5 AND 1:10.

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



**US WIND**  
**INDIAN RIVER BAY - EXPORT CABLES**

PROJECT	DRAWING NUMBER	REV
410735	- 022	0

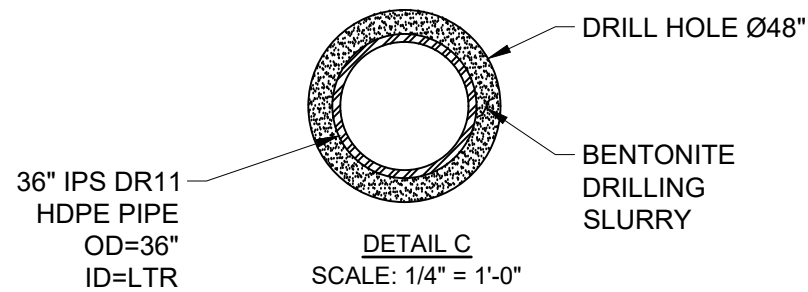
DESIGNER	DJ	DRAWN	SLH
CHECKED	RW	DATE	10/13/23

TYPICAL CABLE CORRIDOR CROSS SECTION  
 AWAY FROM NAVIGATIONAL CHANNEL

CODE	
AREA	



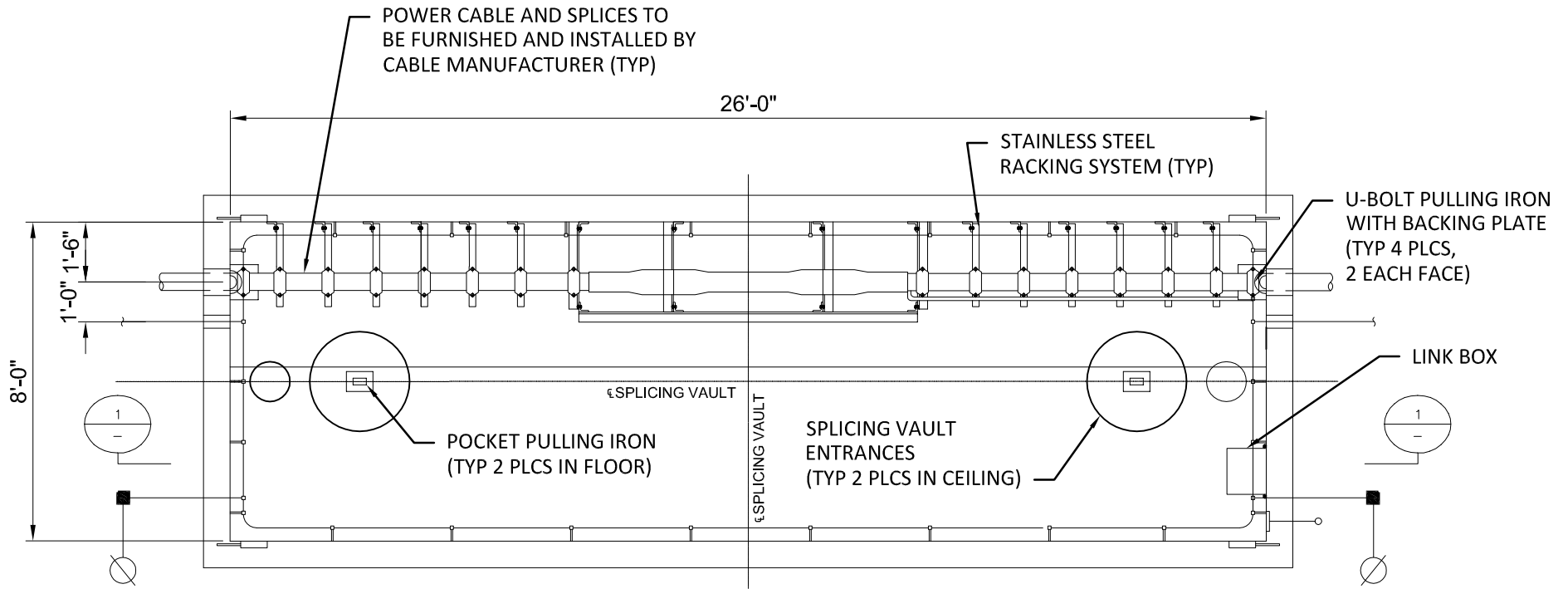
# **Horizontal Directional Drill Cross Section**



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

 <b>BLACK &amp; VEATCH</b> Building a world of difference®	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES				PROJECT 410735 - 023	DRAWING NUMBER 023	REV 0
	DESIGNER DJ	DRAWN SLH	HDD SECTION			CODE	
CHECKED RW	DATE 10/13/23				AREA		

# **West Side Splicing Vault Details**



PLAN VIEW  
SCALE: 1/4"=1'-0"

**NOT TO BE USED  
FOR CONSTRUCTION**

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



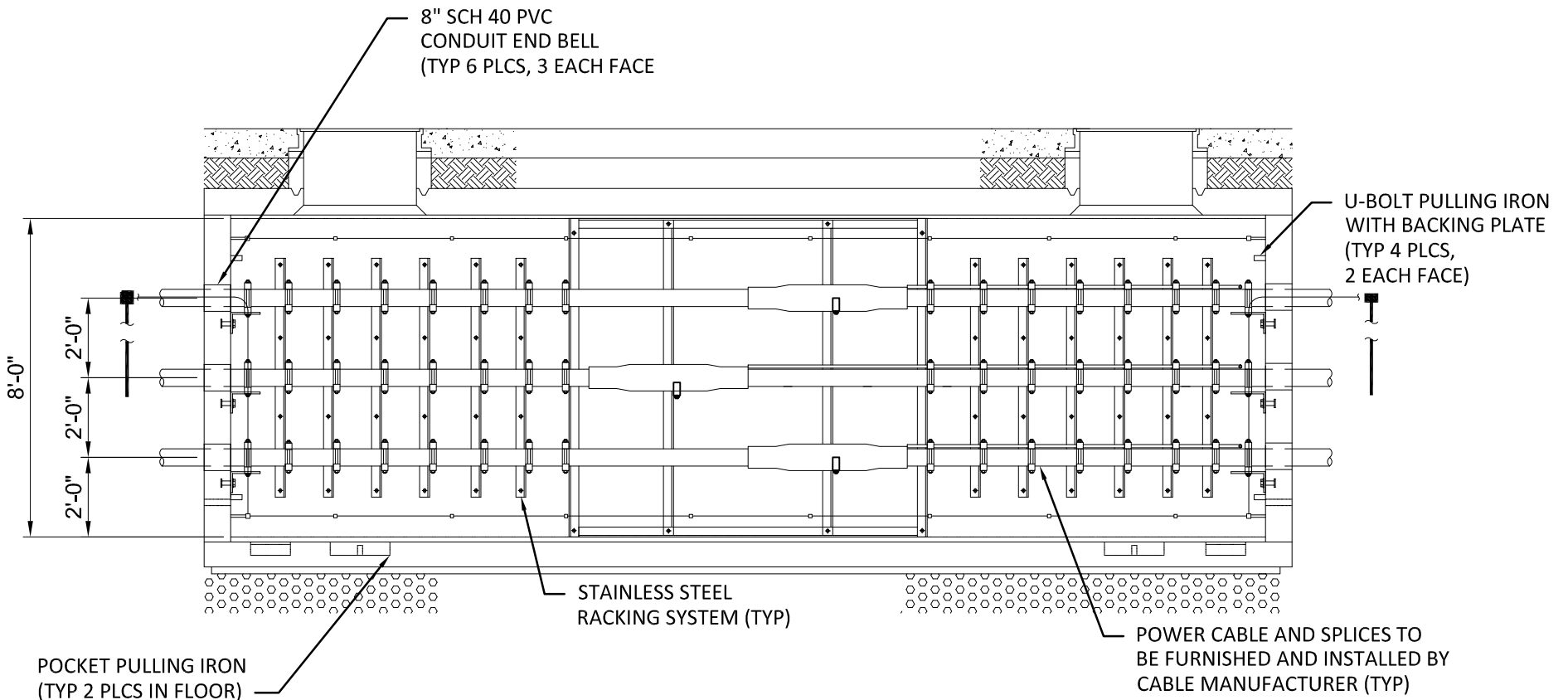
**US WIND**  
INDIAN RIVER BAY - SINGLE CIRCUIT VAULT

PROJECT	DRAWING NUMBER	REV
410735 - 024		0

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

SPlicing VAULT ON LAND - PLAN VIEW

CODE	
AREA	



SECTION 1  
SCALE: 1/4"=1'-0"

**NOT TO BE USED  
FOR CONSTRUCTION**

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

	<b>BLACK &amp; VEATCH</b> Building a world of difference®		<b>US WIND</b> INDIAN RIVER BAY - SINGLE CIRCUIT VAULT				PROJECT	DRAWING NUMBER		REV	
							410735	-	025	0	
DESIGNER	DRAWN		SPlicing VAULT ON LAND - SECTION VIEW				CODE				
DJ	SLH						AREA				
CHECKED	DATE										
RW	10/13/23										

## **Transition Vault Details**

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

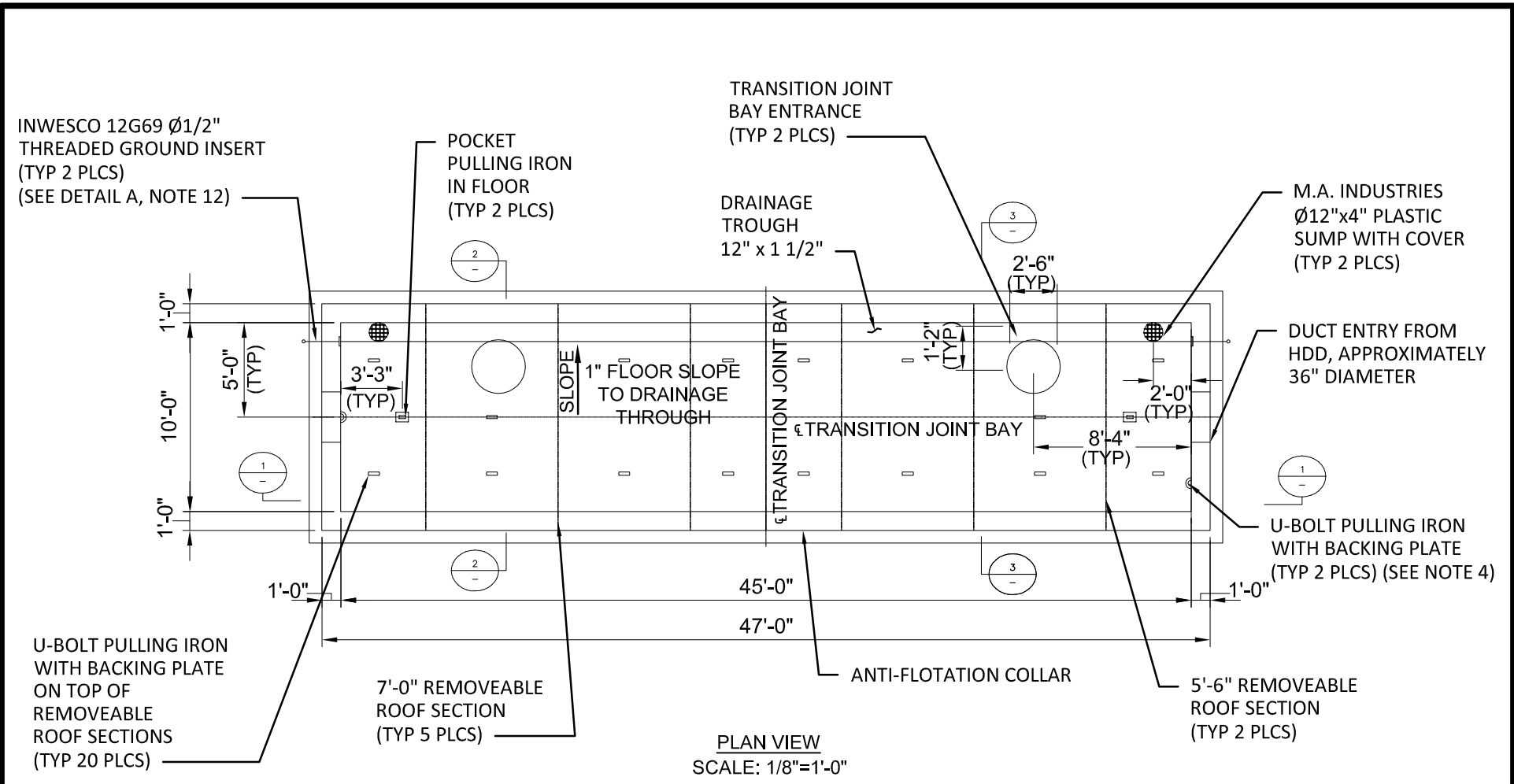
**-West Landing Submarine Cable to Land  
Cable Splices**

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**

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

 <b>BLACK &amp; VEATCH</b> Building a world of difference®	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES		PROJECT 410735 - 026	DRAWING NUMBER 026	REV 0
	DESIGNER DJ	DRAWN SLH	TRANSITION VAULT DETAILS -NOTES		CODE
CHECKED RW	DATE 10/13/23	AREA			



**NOT TO BE USED  
 FOR CONSTRUCTION**

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

<b>BLACK &amp; VEATCH</b> Building a world of difference®	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES		PROJECT	DRAWING NUMBER	REV
			410735	- 027	0
DESIGNER	DRAWN	TRANSITION VAULT DETAILS -PLAN VIEW		CODE	
DJ	SLH			AREA	
CHECKED	DATE				
RW	10/13/23				



36" DIA TRANSITION JOINT BAY LID  
AND FRAME WITH IBSP LOGO  
(TYP 2 PLCS) (SEE NOTE 13)

5'-6" REMOVEABLE  
ROOF SECTION  
(TYP 2 PLCS)

PAVEMENT

GRADE RINGS  
(SEE NOTE 1) (TYP)

COMPACTED  
ROAD  
BASE

7'-0" REMOVEABLE  
ROOF SECTION  
(TYP 7 PLCS)

GRADE

U-BOLT PULLING IRON  
WITH BACKING PLATE  
(TYP 2 PLCS) (SEE NOTE 4)

9"  
(MIN)

11'-0"  
9'-0"

U-BOLT PULLING IRON  
WITH BACKING PLATE  
(TYP 2 PLCS) (SEE NOTE 4)

ANTI-FLOTATION COLLAR

M.A. INDUSTRIES Ø12"x4"  
PLASTIC SUMP WITH COVER  
(TYP 2 PLCS)

1'-0"

3'-3"

2'-0"

GEOTEXTILE

CRUSHED STONE

POCKET  
PULLING IRON  
(TYP 2 PLCS)

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

**NOT TO BE USED  
FOR CONSTRUCTION**

0

02/09/24

ISSUED FOR PERMITTING

SLH

DJ

RW

NO

DATE

REVISIONS AND RECORD OF ISSUE

DRN

DES

CHK

PDE

APP



**BLACK & VEATCH**  
Building a world of difference®

**US WIND**

INDIAN RIVER BAY - EXPORT CABLES

PROJECT

DRAWING NUMBER

REV

410735 - 028

0

DESIGNER  
DJ

DRAWN  
SLH

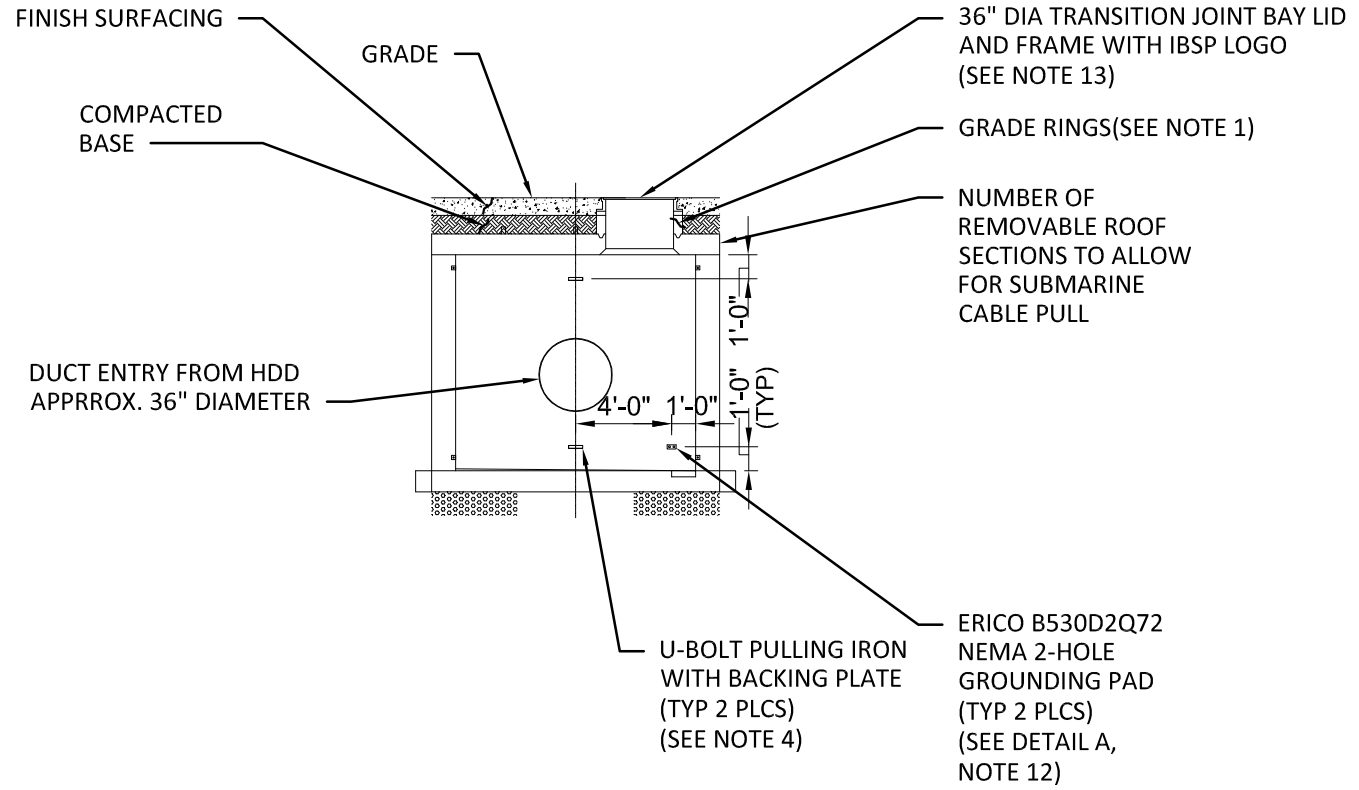
CHECKED  
RW

DATE  
10/13/23

TRANSITION VAULT DETAILS -SECTION VIEW

CODE

AREA



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

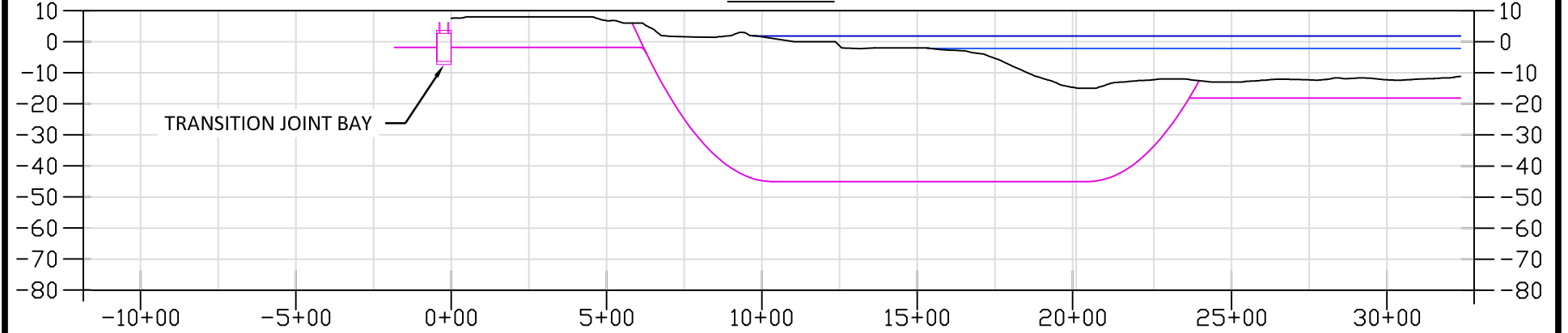
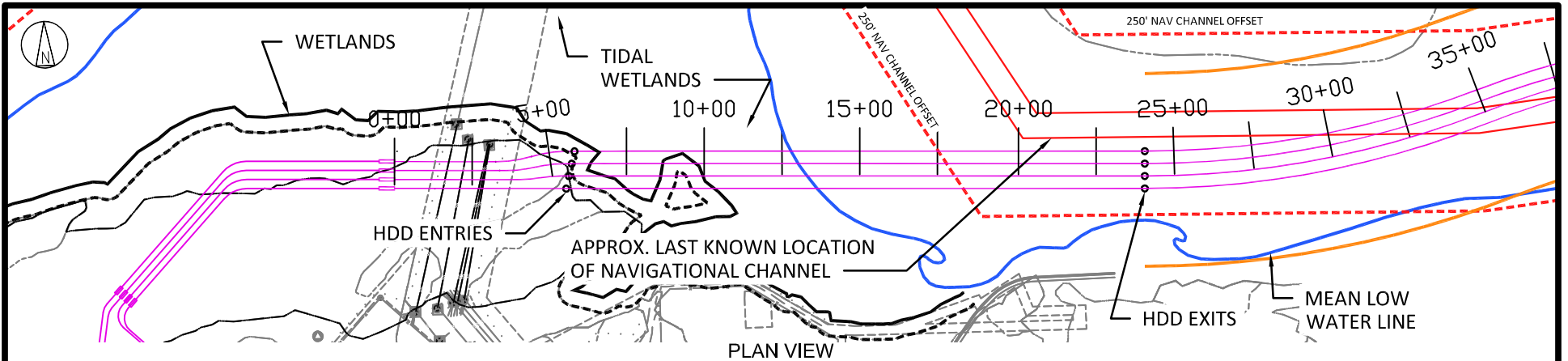
**NOT TO BE USED  
FOR CONSTRUCTION**

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

 <b>BLACK &amp; VEATCH</b> Building a world of difference®	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES		PROJECT 410735 - 029	DRAWING NUMBER 410735 - 029	REV 0
	DESIGNER DJ	DRAWN SLH	TRANSITION VAULT DETAILS -SECTION 2 VIEW	CODE	
CHECKED RW	DATE 10/13/23	AREA			

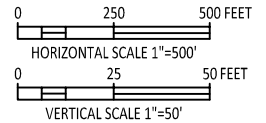


# **Horizontal Directional Drill Plan and Profiles**



**LEGEND:**

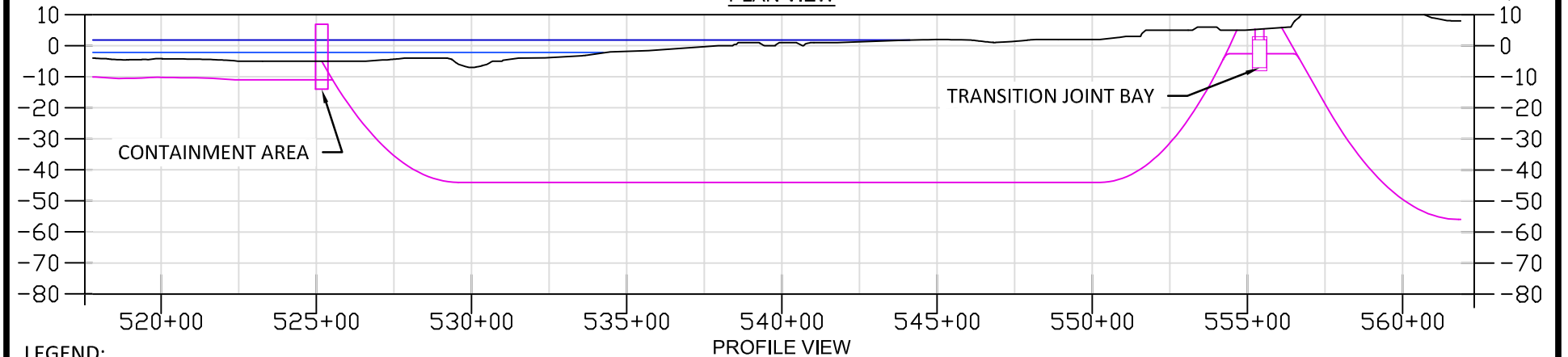
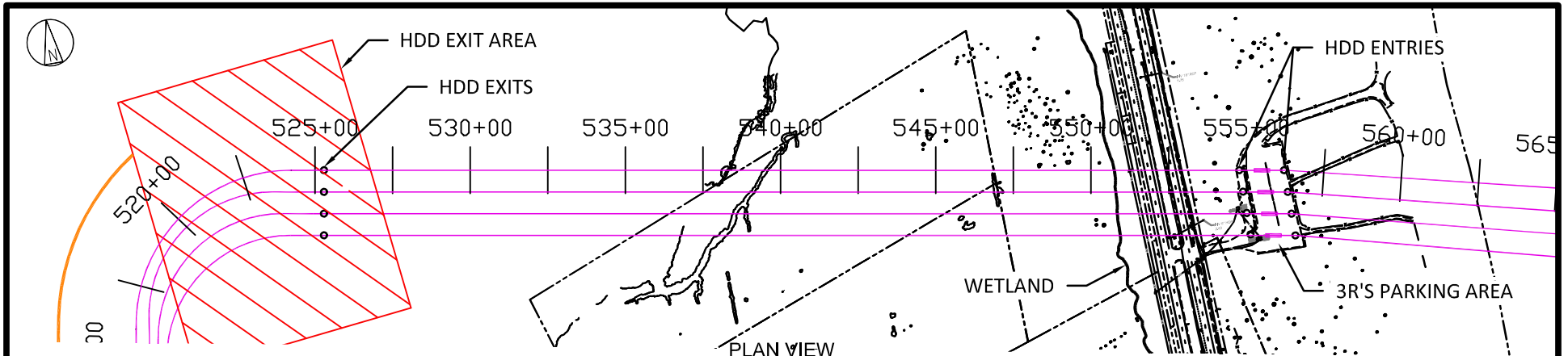
- EXPORT CABLE
- BARGE ACCESS DREDGE LINE  
(DOES NOT INCLUDE SIDE SLOPES)
- TEMPORARY WORK AREA
- MHHW
- MLLW
- 250' NAV CHANNEL OFFSET



**NOT TO BE USED FOR CONSTRUCTION**

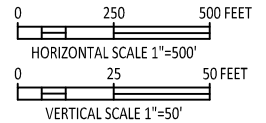
								0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		
								NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

		<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS		PROJECT		DRAWING NUMBER		REV
				410735 - 031				0
DESIGNER	DRAWN	HDD 1 PLAN & PROFILE WEST LANDING				CODE		
DJ	SLH					AREA		
CHECKED	DATE							
RW	10/13/23							



**LEGEND:**

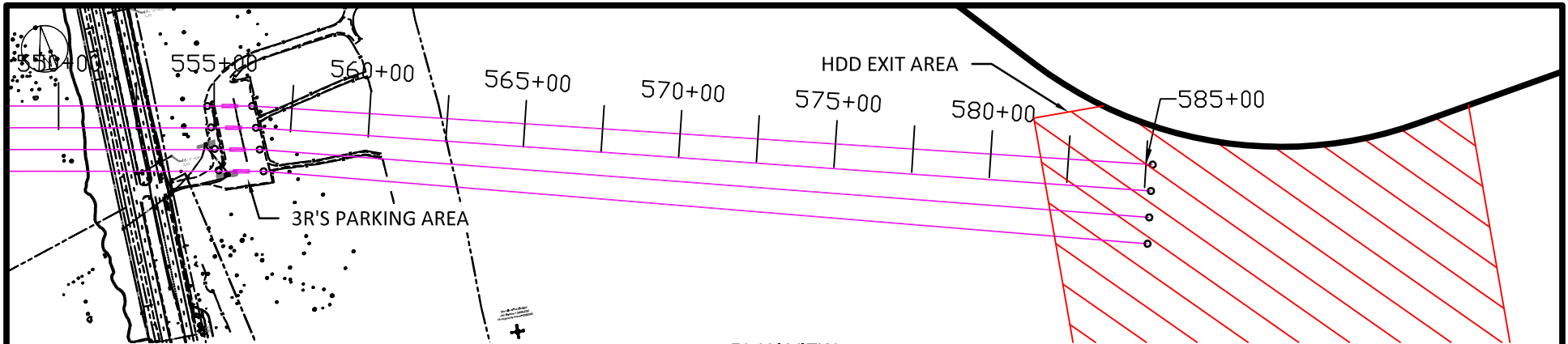
- EXPORT CABLE
- BARGE ACCESS DREDGE LINE  
(DOES NOT INCLUDE SIDE SLOPES)
- TEMPORARY WORK AREA
- MHHW
- MLLW
- - - 250' NAV CHANNEL OFFSET



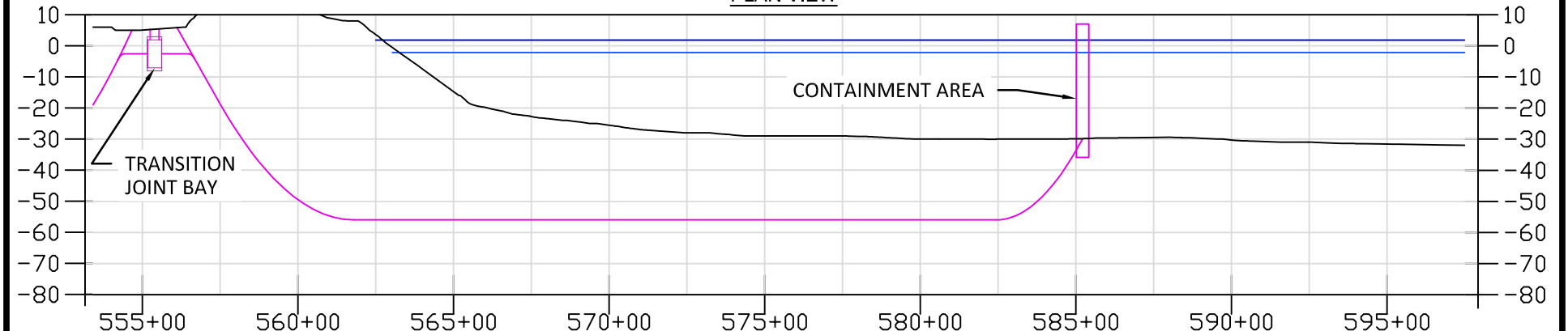
**NOT TO BE USED FOR CONSTRUCTION**

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1	03/07/24	ISSUED FOR PERMITTING	SLH	DJ	RW		NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS		PROJECT	DRAWING NUMBER	REV
			410735	- 032	2
DESIGNER	DRAWN	HDD PLAN & PROFILE 2 EAST LANDING - IRB		CODE	
CHECKED	DATE			AREA	
DJ	SLH				
RW	10/13/23				



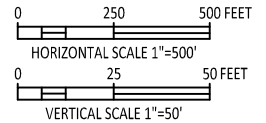
PLAN VIEW



PROFILE VIEW

LEGEND:

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



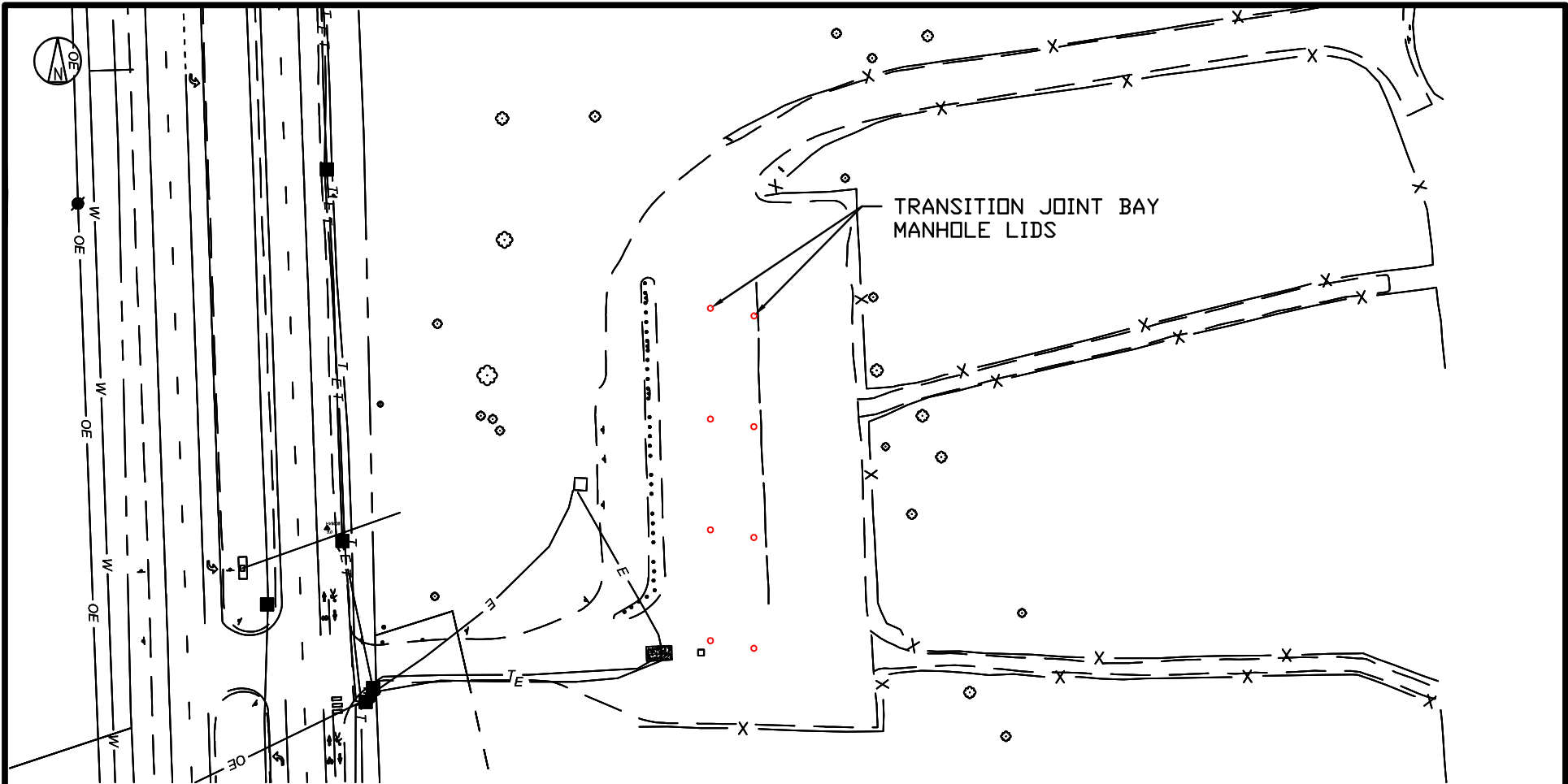
**NOT TO BE USED FOR CONSTRUCTION**

1	03/25/24	ISSUED FOR PERMITTING	SLH	DJ	RW			0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		
								NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES DREDGING PLANS		PROJECT 410735 - 033	DRAWING NUMBER 033	REV 1
	DESIGNER DJ	DRAWN SLH	HDD 3 PLAN & PROFILE EAST LANDING - ATLANTIC		CODE
CHECKED RW	DATE 10/13/23			AREA	

**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**

1	03/25/24	ISSUED FOR PERMITTING	SLH	DJ	RW			0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		
								NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP



**US WIND**  
INDIAN RIVER BAY - EXPORT CABLES

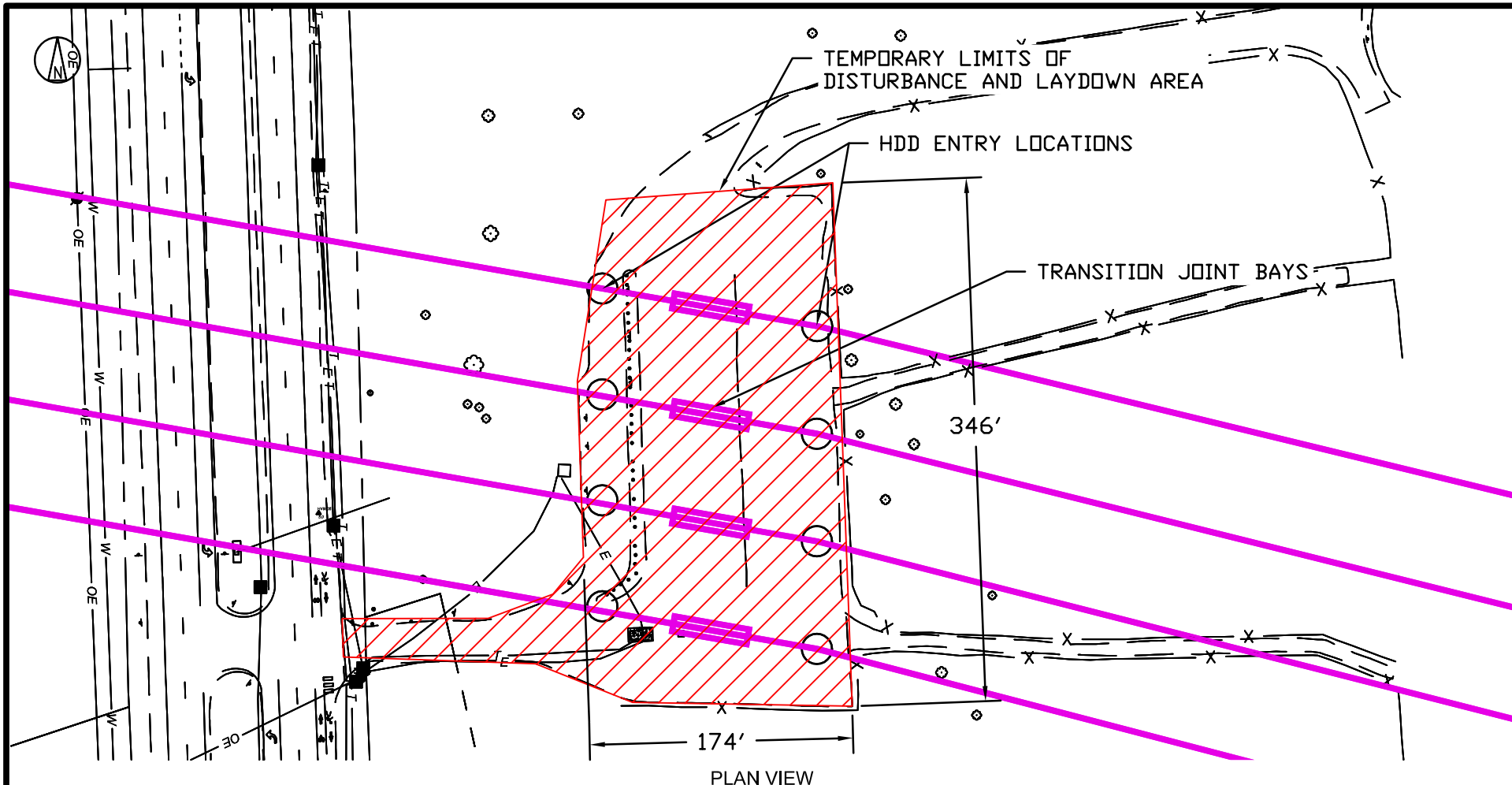
PROJECT	DRAWING NUMBER	REV
410735 - 034		1

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

3R'S PARKING LOT  
PERMANENT DISTURBANCE AREA

CODE	
AREA	

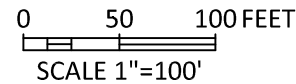
**East Landing – 3 R's Parking Lot**  
**Temporary Disturbance During Installation**



PLAN VIEW

**NOTE:**

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



**NOT TO BE USED FOR CONSTRUCTION**

1	03/25/24	ISSUED FOR PERMITTING	SLH	DJ	RW			0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		
								NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP



**US WIND**  
INDIAN RIVER BAY - EXPORT CABLES

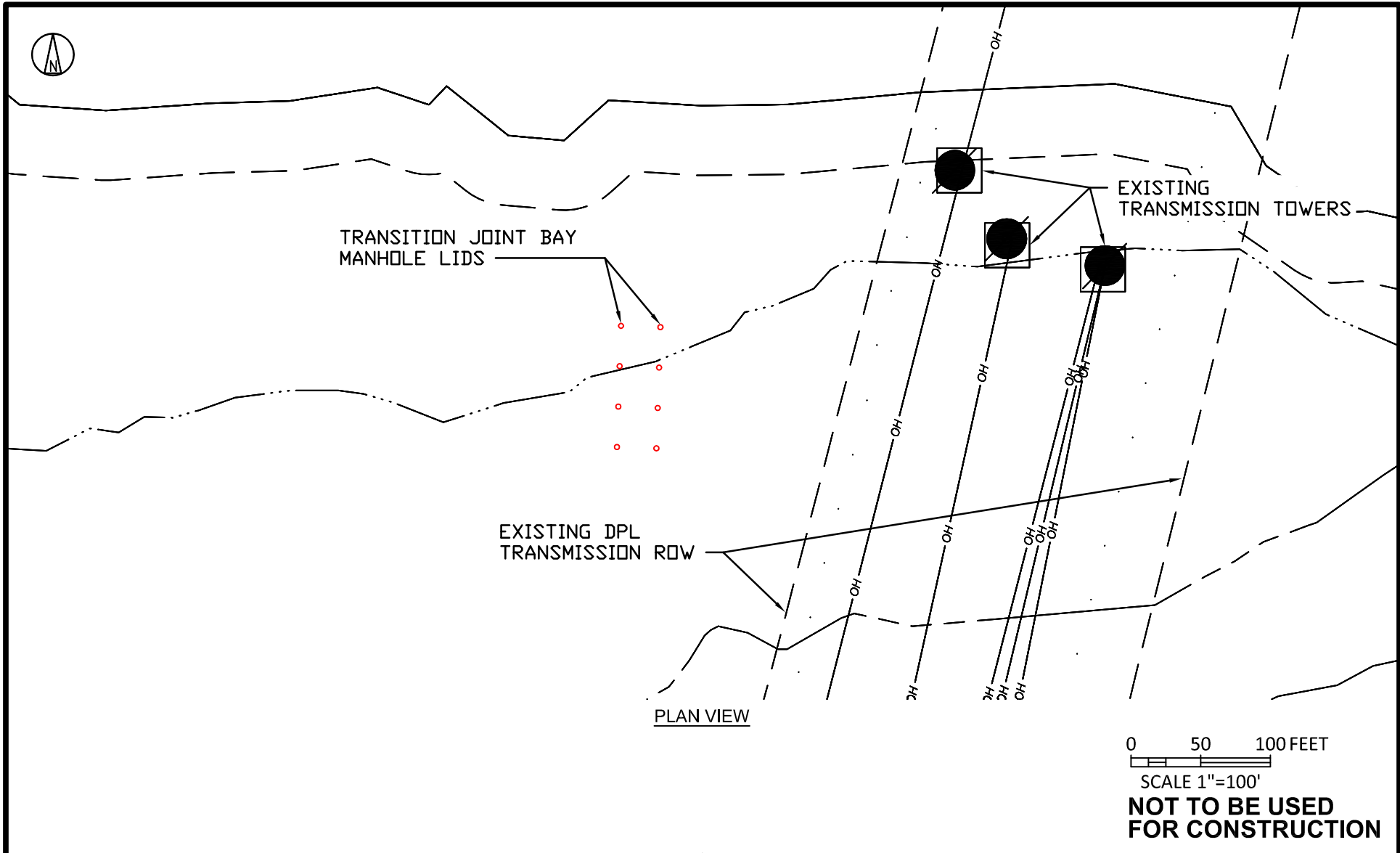
PROJECT	DRAWING NUMBER	REV
410735 - 035		1

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

**3R'S PARKING LOT  
TEMPORARY DISTURBANCE AREA**

CODE	
AREA	

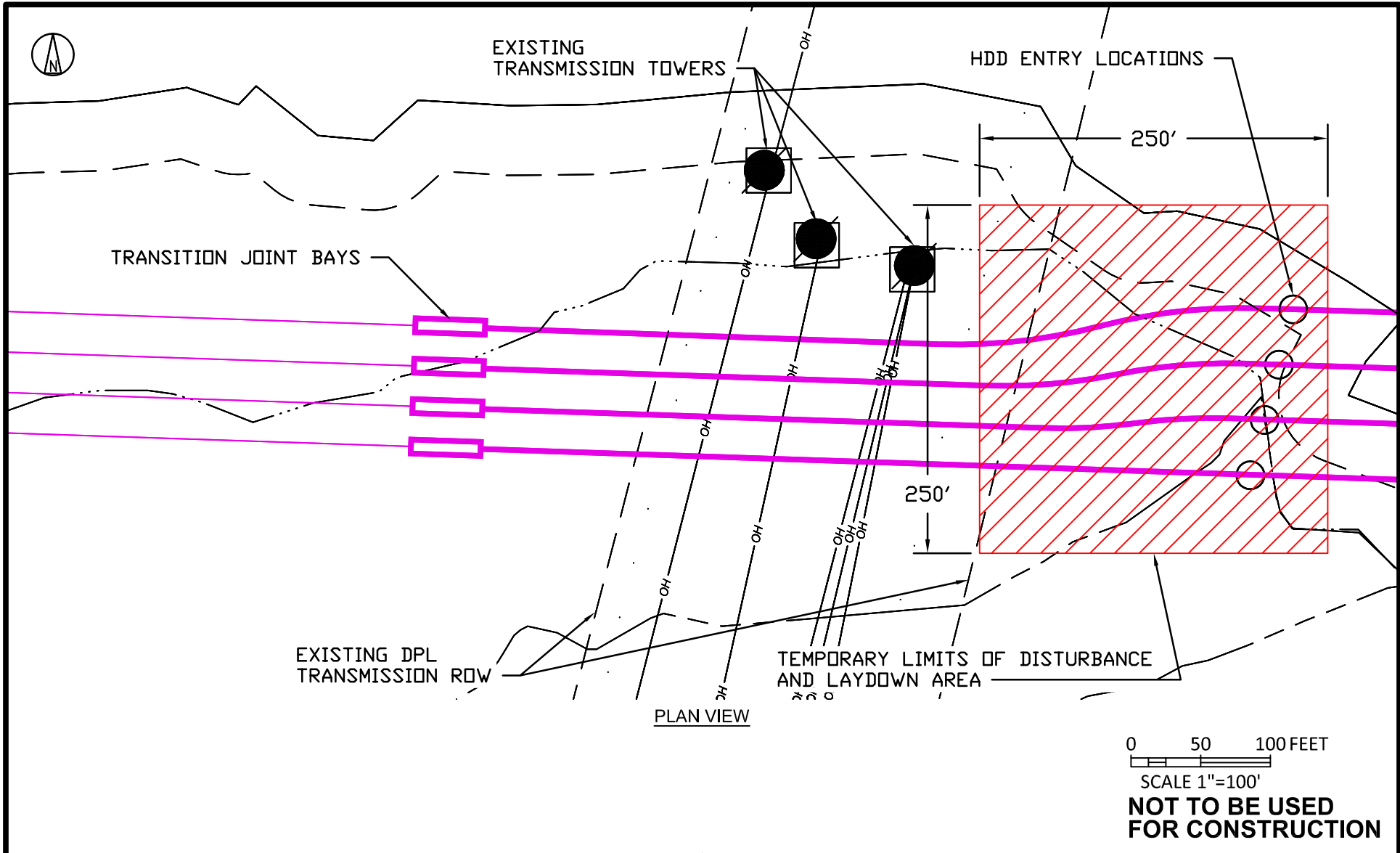
**West Landing – Vicinity Of Substations  
Permanent Disturbance (Manhole Lids  
Only)**



1	03/25/24	ISSUED FOR PERMITTING	SLH	DJ	RW			0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW		
								NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

	<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES				PROJECT	DRAWING NUMBER	REV
					410735	- 036	1
DESIGNER	DJ	DRAWN	SLH	WEST LANDING PERMANENT DISTURBANCE AREA			CODE
CHECKED	RW	DATE	10/13/23				AREA

**West Landing – Vicinity of Substations**  
**Temporary Disturbance During Installation**



1	03/25/24	ISSUED FOR PERMITTING	SLH	DJ	RW			0	02/09/24	ISSUED FOR PERMITTING	SLH	DJ	RW			
								NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP	
<b>BLACK &amp; VEATCH</b> Building a world of difference®			<b>US WIND</b> INDIAN RIVER BAY - EXPORT CABLES							PROJECT 410735 - 037			DRAWING NUMBER 037			REV 1
DESIGNER DJ		DRAWN SLH		<b>WEST LANDING</b> TEMPORARY DISTURBANCE AREA							CODE					
CHECKED RW		DATE 10/13/23									AREA					