

Empire Offshore Wind LLC

Empire Wind 2 Project

Exhibit 5

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ACRONYMS AND ABBREVIATIONS

BOEM	Bureau of Ocean Energy Management
EM&CP	Environmental Management & Construction Plan
Empire or the Applicant	Empire Offshore Wind LLC
EW 2	Empire Wind 2
ft	foot
HDD	horizontal directional drilling
HVAC	high-voltage alternating-current
km	kilometer
kV	kilovolt
Lease	Commercial Lease of Submerged Lands for Renewable Energy Development on the Outer Continental Shelf OCS-A 0512
Lease Area	Bureau of Ocean Energy Management-designated Renewable Energy Lease Area OCS-A 0512
LIPA	Long Island Power Authority
m	meter
mi	mile
nm	nautical mile
NYISO	New York Independent System Operator, Inc.
NY Project	EW 2 Project transmission facilities in New York
NYSPSC or Commission	New York State Public Service Commission
OCS	Outer Continental Shelf
POI	Point of interconnection at an expansion of the Barrett 138-kV Substation
PSEG-LI	PSEG Long Island
PSL	New York Public Service Law

EXHIBIT 5: DESIGN DRAWINGS

5.1 Introduction

Empire Offshore Wind LLC (Empire or the Applicant) proposes to construct and operate the Empire Wind 2 (EW 2) Project as one of two separate offshore wind projects to be located within the Bureau of Ocean Energy Management (BOEM) designated Renewable Energy Lease Area OCS-A 0512 (Lease Area). The EW 2 Project will require an electric transmission system to connect the offshore wind farm to the point of interconnection (POI) to the New York State Transmission System. An electric transmission line with a design capacity of 125 kilovolts (kV) or more, extending a distance of one mile or more, is subject to review and approval by the New York State Public Service Commission (Commission or NYSPSC) as a major electric transmission facility pursuant to Article VII of the New York Public Service Law (PSL). The EW 2 Project transmission system will extend a total of approximately 12.1 miles (mi) (19.5 kilometers [km]) within the State of New York and includes 230-kV export cable circuits and 345-kV interconnection cable circuits. As such, this application is being submitted to the Commission pursuant to Article VII of the PSL for the portions of the EW 2 Project transmission system that are located within the State of New York (collectively, the NY Project).

The NY Project will interconnect to the New York State Transmission System operated by the New York Independent System Operator, Inc. (NYISO) at the Oceanside POI, located at an expansion of the Barrett 138-kV Substation. The Barrett 138-kV Substation is owned by the Long Island Power Authority (LIPA) and operated by PSEG Long Island (PSEG-LI) and is located in Oceanside in the Town of Hempstead, New York. The NY Project will enter LIPA's substation at 345 kV, where the voltage will be converted to 138 kV within the POI. The onshore portion of the NY Project will be located entirely within Nassau County, New York.

The NY Project includes:

- Three three-core 230-kV high-voltage alternating-current (HVAC) submarine export cables located within an approximately 7.7-nautical mile (nm, 14.2-km)-long submarine export cable corridor from the boundary of New York State waters 3 nm (5.6 km) offshore to the cable landfall;
- A cable landfall in the City of Long Beach, New York;
- Three 230-kV onshore export cable circuits, each with three single-core HVAC onshore export cables within an approximately 1.5-mi (2.4-km)-long onshore export cable corridor from the cable landfall to the onshore substation;
- An onshore substation in the Village of Island Park, within the Town of Hempstead, New York, which will step up the voltage to 345 kV for the onshore interconnection cables; and
- Up to three 345-kV interconnection cable circuits, each with three single-core HVAC interconnection cables within an approximately 1.7-mi (2.8-km)-long interconnection cable corridor from the onshore substation to the POI.

This Exhibit addresses the requirements of 16 New York Codes, Rules and Regulations § 86.6 to provide design, profile, and architectural drawings for the proposed facilities, including the length, width, and height of any structure; the material of construction, color, and finish; and a profile of the centerline of the right-of-way at exaggerated vertical scale.

5.2 Description of Design Drawings

From the Lease Area, three 230-kV submarine export cables will be installed within a single cable corridor that runs northwest traversing the New York Bight towards Long Island. The NY Project cable corridor for this application begins where the submarine export cable route crosses the state boundary 3 nm (3.5 mi, 5.6 km) offshore, which occurs approximately 3 nm (3.5 mi, 6.2 km) directly south of Jones Beach in western Long Island. After crossing the New York State boundary, the submarine cable route continues northwest towards the barrier island of Long Beach and turns north towards the cable landfall, in the City of Long Beach, New York.

The submarine export cable corridor length is approximately 7.7 nm (8.8 mi, 14.2 km) long from the New York State waters boundary offshore to the cable landfall. The assessed submarine export cable siting corridor in New York State waters is variable in width to allow the Applicant flexibility to micro-site the cables based on environmental and seabed conditions identified prior to installation. Further route micro-siting within the cable corridor will be provided as part of the Applicant's Environmental Management and Construction Plan (EM&CP).

The NY Project's export cable route will make landfall in the City of Long Beach, New York, within the public right-of-way at Riverside Boulevard and an adjacent vacant parcel. The Applicant is proposing a trenchless (horizontal directional drill) installation method for the cable landfall. **Exhibit E-3: Underground Construction** provides additional information on cable landfall installation methodology and associated activities. Up to two separate fiber optic cables per circuit will be used for communication and monitoring and will be installed alongside the onshore export cables.

The onshore export cables between the cable landfall and the onshore substation will consist of three 230-kV circuits. Each circuit will comprise three single-core cross-linked polyethylene solid dielectric cables. The onshore export cables will be housed in either one common duct bank or two to three separate concrete duct banks. The configuration of the nine onshore export cables and three fiber optic cables within the duct banks may vary along the installation corridor (conceptual drawings are provided in this Exhibit). Joint pits/pull-in pits (manholes) will be located approximately every 1,500 to 5,000 ft (457 to 1,524 m) along the onshore export cable corridor to provide access to the cables. The actual length between joint pits will vary due to site-specific and cable installation constraints. Final jointing pit locations will be provided in the EM&CP. The onshore export cable route is approximately 1.5 mi (2.4 km) long.

The onshore substation facility will be designed to comply with applicable New York building codes, electrical standards, and environmental conditions to the extent practicable (see **Exhibit 7: Local Ordinances** for compliance information and requested waivers). The Applicant is planning to install gas-insulated switchgear (GIS). Additional detail on substation design is provided in **Exhibit E-2: Other Facilities**. Final layout and design details will be further developed during the design process through execution contracts as part of the NYISO interconnection process and will be provided in the Applicant's EM&CP.

The onshore substation site will be contained within an up to 10-ft (3-m)-high perimeter fence, constructed of chain link, welded wire, or similar material, with an up to 2-ft (0.6-m)-tall barbed wire extension, for a total height of 12 ft (3.6 m). The onshore substation site will have an operational footprint of approximately 5.2 acres (2.1-hectares) located at 15 Railroad Place in Island Park, New York. Building dimensions are provided on the onshore substation layout in this Exhibit. The height of the GIS and control building above the current elevation will be a maximum total height of 60 ft (18m), including proposed site elevation. The Applicant anticipates all other equipment on the site to be below the maximum height of the GIS and control building. The building will be a combination of clad steel frame and concrete, designed to match the style and visual

character of the surrounding area, and is proposed to be painted a light gray or white color. The Applicant will continue to work with local stakeholders throughout the permitting process and will submit final exterior design details in its EM&CP for the NY Project.

The interconnection cables between the onshore substation and the POI will consist of up to three 345-kV cable circuits. Each cable circuit will be comprised of three single-core cross-linked polyethylene solid dielectric cables. The interconnection cables will be housed in a duct bank, similar to the onshore export cables. The interconnection cable route is approximately 1.7-mi (2.8-km)-long.

Table 5.2-1 provides a list of the design drawings in this Exhibit associated with the proposed facilities, including submarine export cables, cable landfall, onshore substation, and onshore export and interconnection cables. Design drawings provided in this Exhibit are preliminary and conceptual; updated design drawings will be provided as part of the Applicant's EM&CP.

Table 5.2-1 Exhibit 5 Design Drawings

Facility	Drawing Number	Name
Submarine Export Cables		Submarine Cable Buried Under Sea Floor
		Off shore Plan and Profile Set
Cable Landfall	LANDFALL A - HDD PLAN & PROFILE	Landfall Plan & Profile (HDD)
	EXCAVATION PIT FOR HDD	Excavation Pit for HDD
	COFFERDAM DETAIL	HDD Cofferdam Detail
	HDD LANDFALL EXIT LOCATION EQUIPMENT SPREAD TYPICAL DETAIL	Equipment Spread Typical Detail
Onshore Substation	001	Onshore Substation Site Preparation Plan
	Figure 1	Substation Layout (1 of 2)
	Figure 2	Substation Layout (2 of 2)
	BULKHEAD REPLACEMENT SECTION A-A	Bulkhead Replacement Section A-A
Onshore Export and Interconnection Cables	REYNOLDS CHANNEL HDD CROSSING	Reynolds Channel HDD Crossing
	INDEX	Alignment Index
	C101-C112	230kV Alignment
	C113-C125	345kV Alignment
	C126-C133	Construction Details
	TYPICAL HDD WORKSPACE SKETCH	Typical HDD Workspace
	TYPICAL HDD LAYOUT (LARGE RIG SETUP)	Typical HDD Layout
	CABLE BRIDGE CROSSING	Cable Bridge Crossing – Barnums Channel
	BARNUMS CHANNEL BRIDGE CROSSING TYPICAL SECTION	Barnums Channel Bridge Crossing Typical Section

Facility	Drawing Number	Name
	OPEN CUT (BARNUMS CHANNEL)	Open Cut (Barnums Channel) Plan & Profile
New York Cable Route		Exaggerated Profile

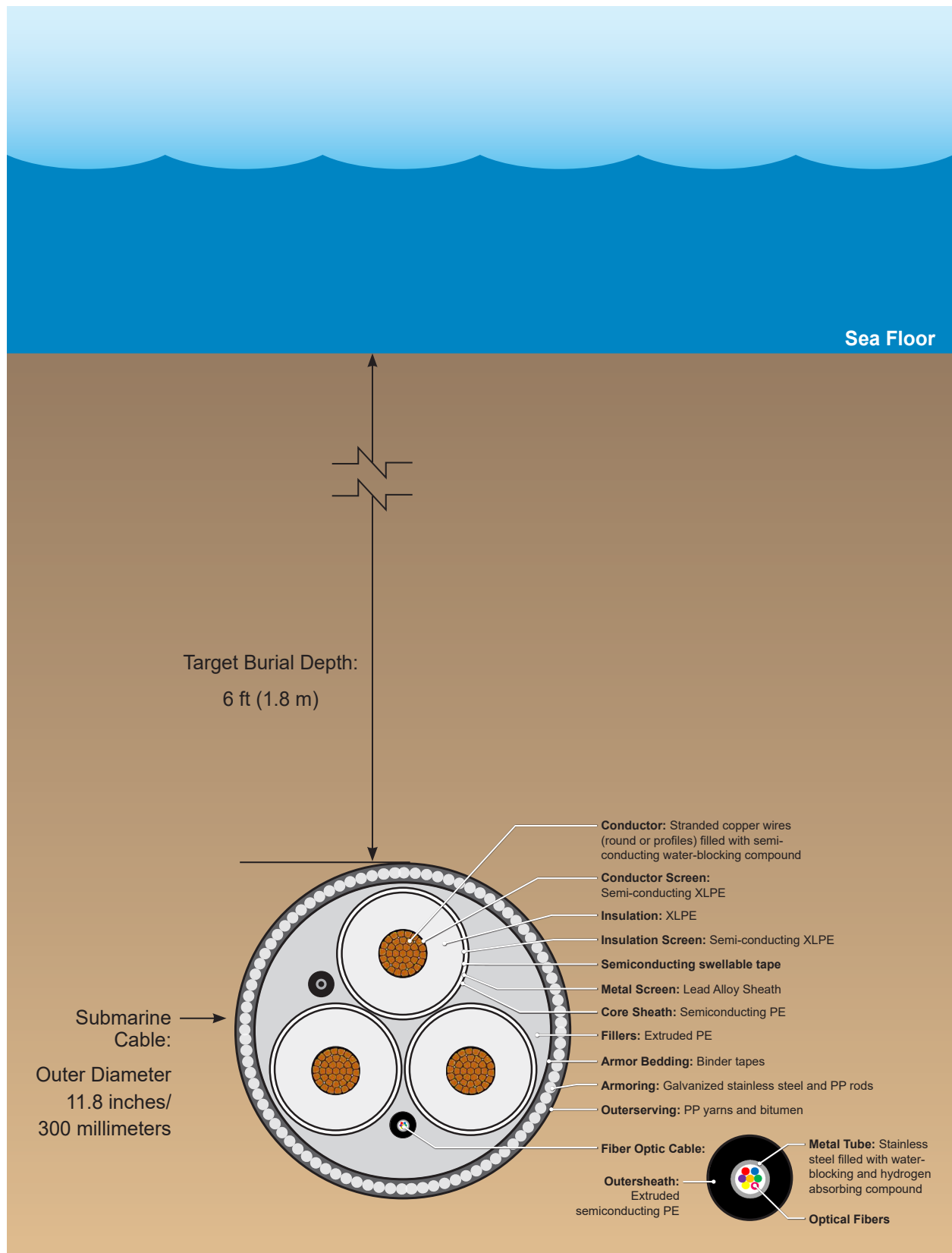
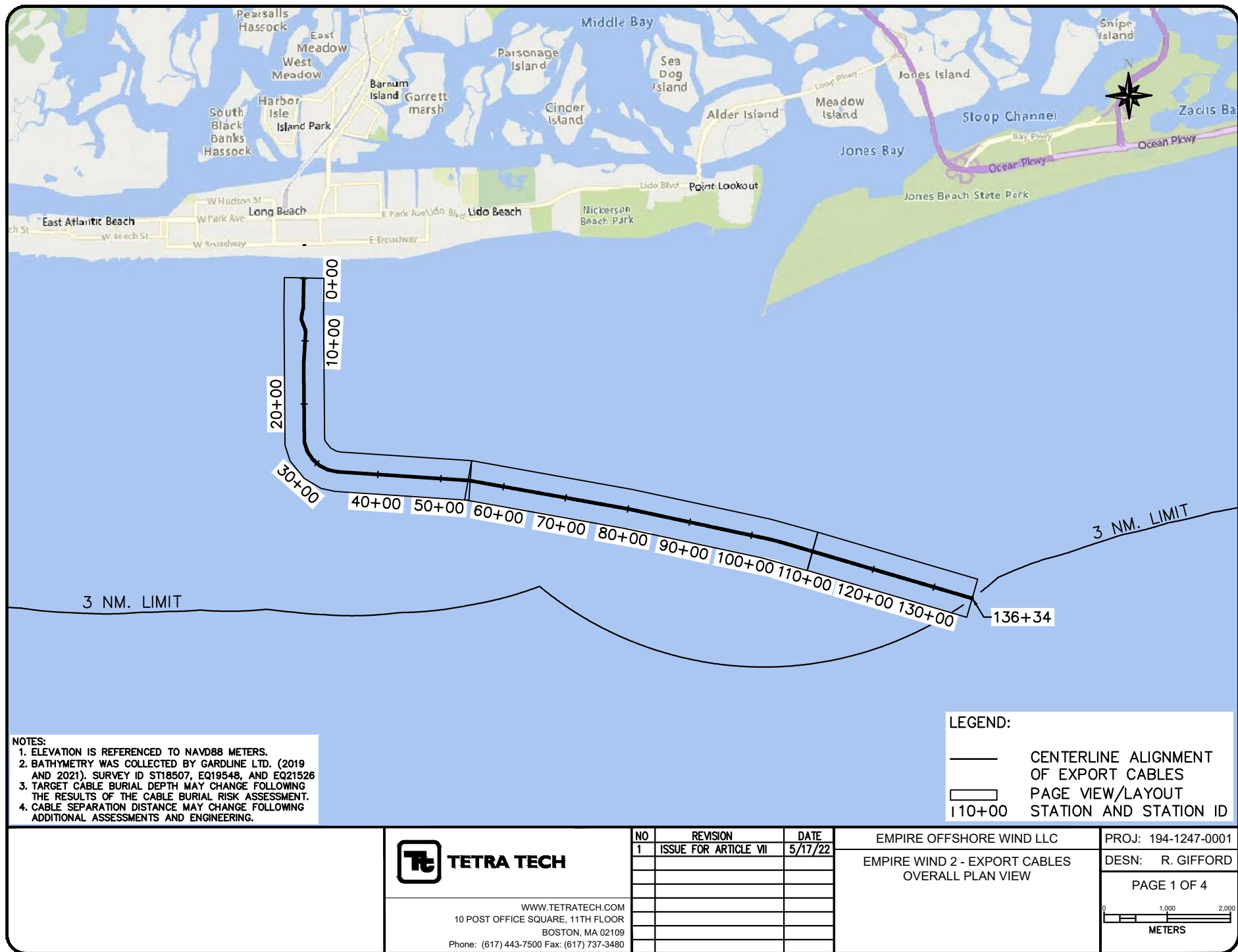
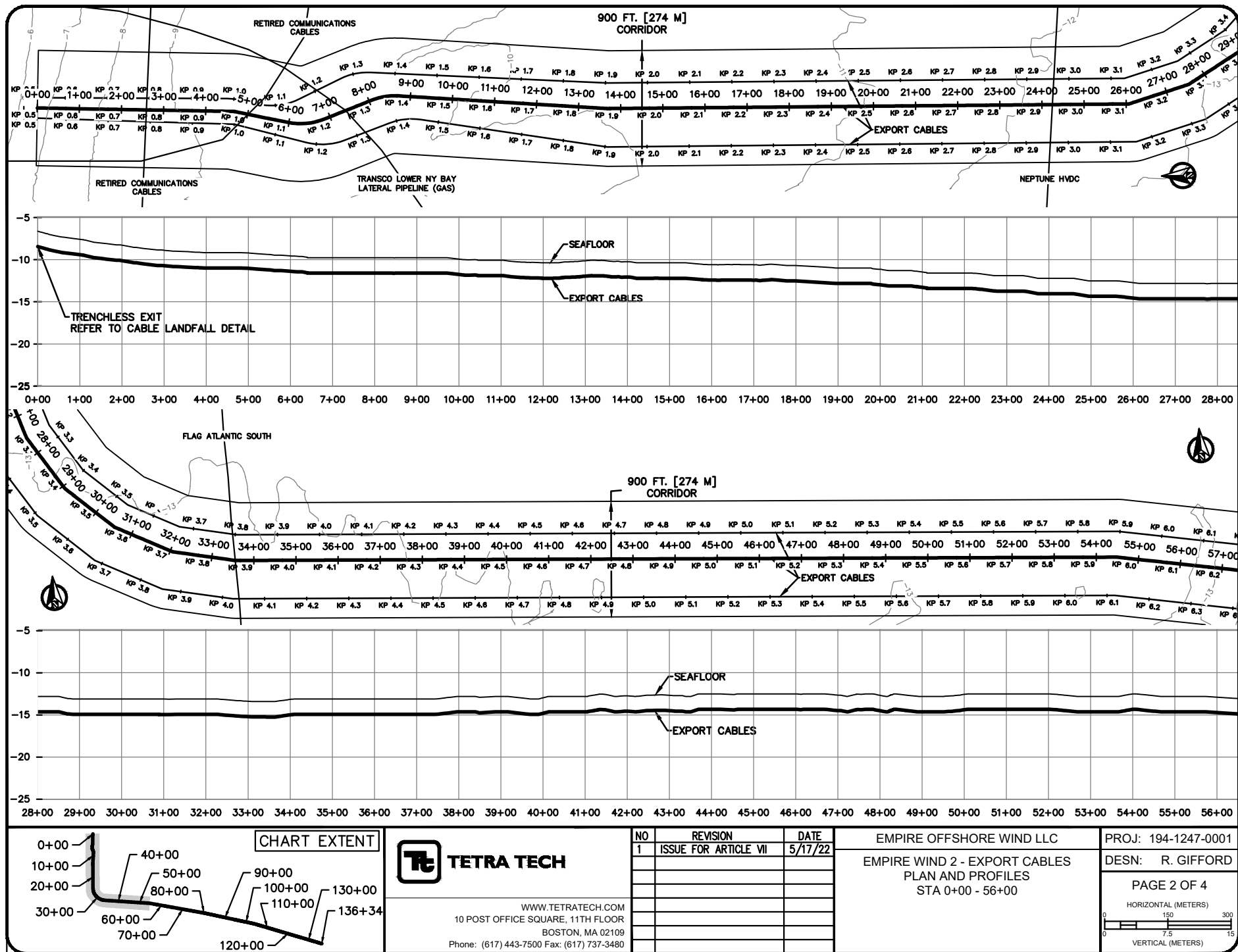


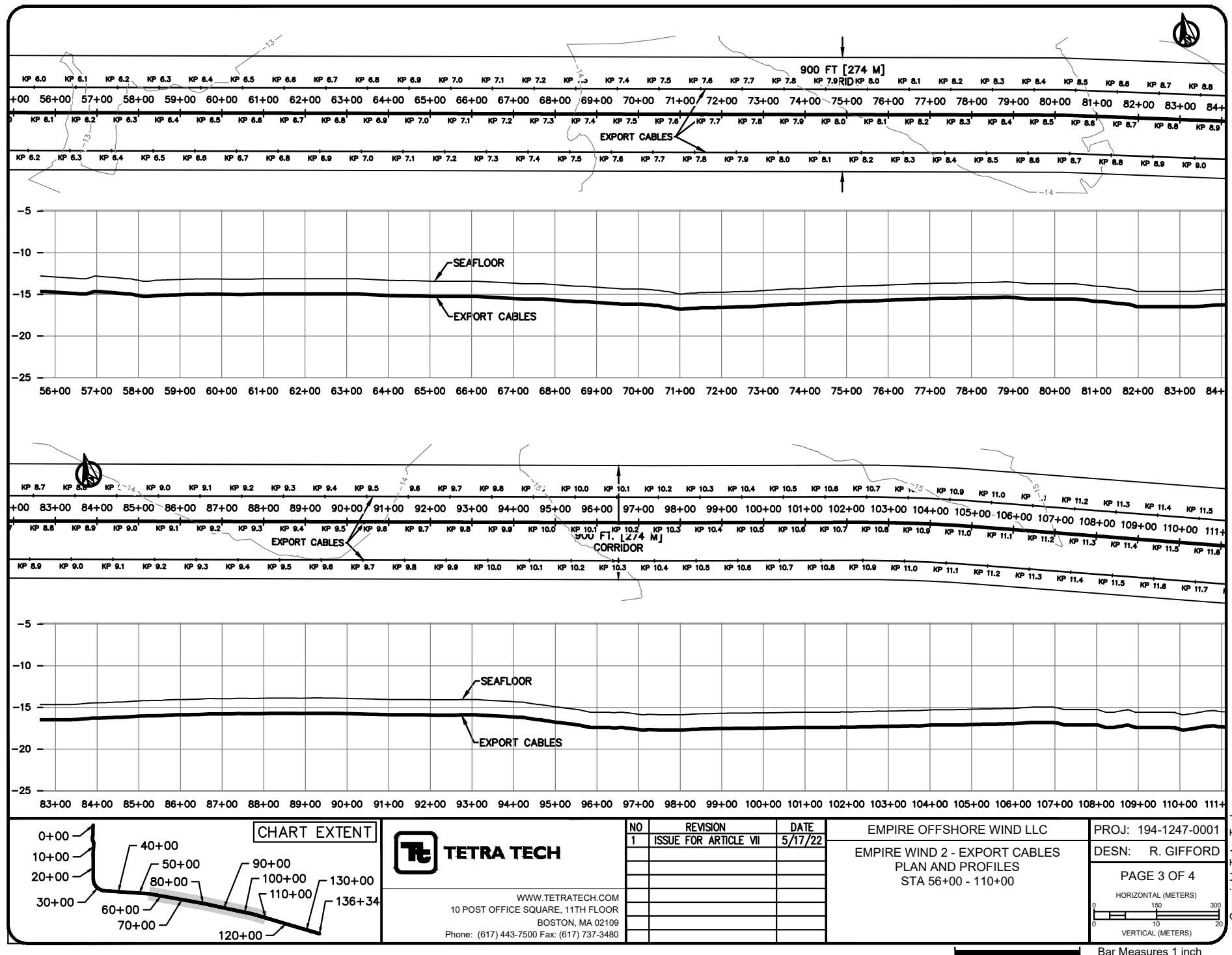
Illustration is not to scale

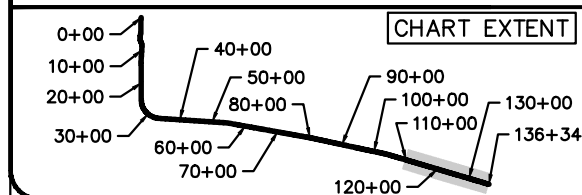
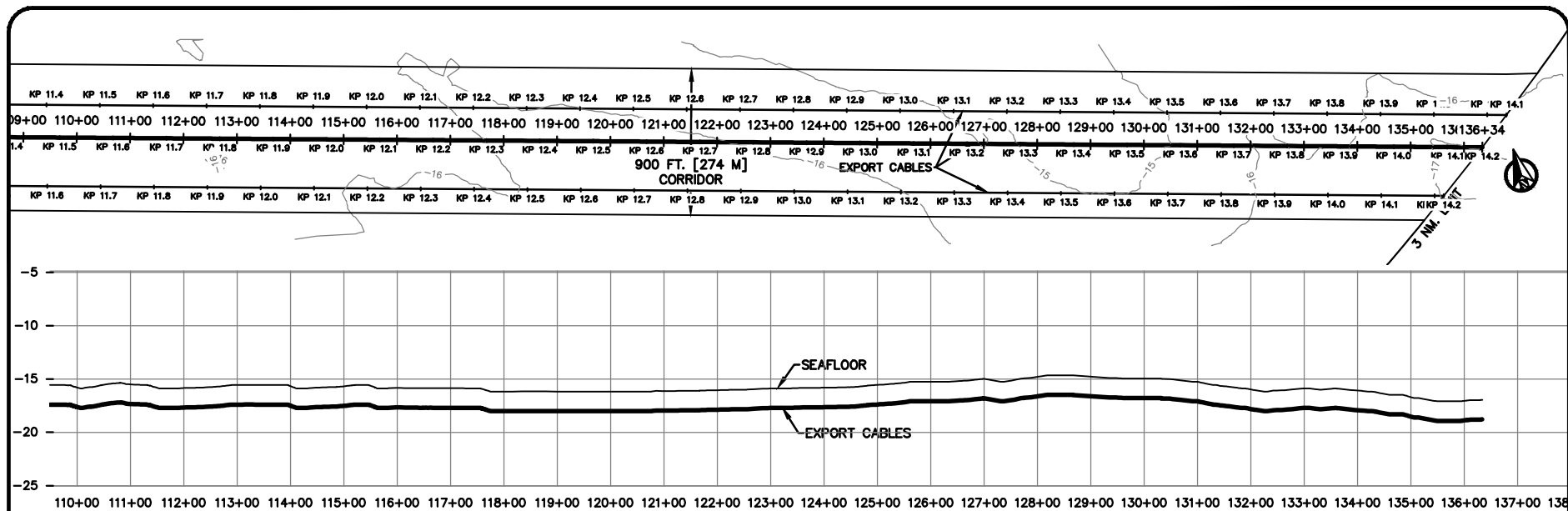
CONCEPTUAL/PRELIMINARY
NOT FOR CONSTRUCTION

Submarine Cable Buried Under Sea Floor









WWW.TETRATECH.COM
10 POST OFFICE SQUARE, 11TH FLOOR
BOSTON, MA 02109
Phone: (617) 443-7500 Fax: (617) 737-3480

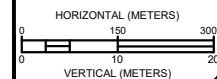
NO	REVISION	DATE
1	ISSUE FOR ARTICLE VII	5/17/22

EMPIRE OFFSHORE WIND LLC
EMPIRE WIND 2 - EXPORT CABLES
PLAN AND PROFILES
STA 110+00 - 136+34

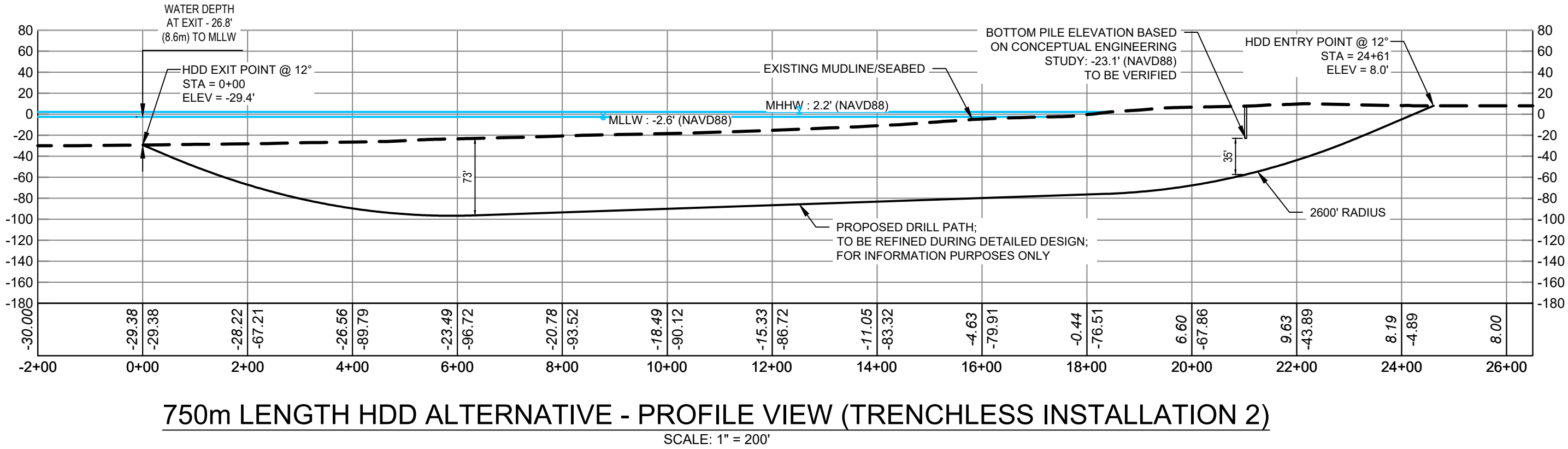
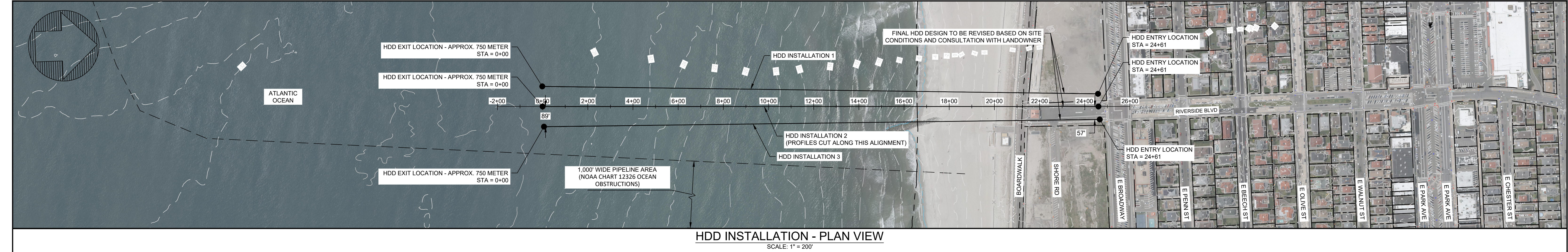
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DESIN: R. GIFFORD

PAGE 4 OF 4

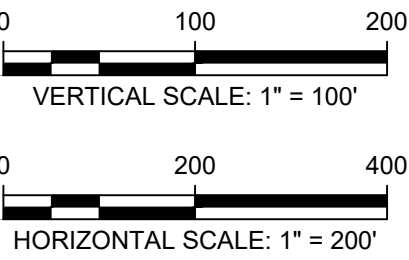


Bar Measures 1 inch



NOTES:
EQUINOR IS PROPOSING A TOTAL OF 3 TRENCHLESS
LANDFALL CONCEPTS. THE INTENT OF THIS DRAWING IS TO
SHOW THE GENERAL ALIGNMENT OF THE 3 TRENCHLESS
CONCEPTS IN PLAN VIEW AND A REPRESENTATIVE PROFILE
FOR HORIZONTAL DIRECTIONAL DRILL (HDD).

- NOTES:
1. LOCATION AND ALIGNMENT OF ALL UTILITIES ARE TO BE VERIFIED FOLLOWING SITE INVESTIGATION.
 2. PRELIMINARY CABLE ALIGNMENTS SHOWN MAY BE ADJUSTED AS THE DESIGN PROGRESSES.
 3. MOTT MACDONALD HAS NOT CONDUCTED CIVIL SURVEY WITHIN THE AREA SHOWN.
 4. AERIAL DATA PROVIDED BY PUBLICLY AVAILABLE SOURCES.
 5. EXISTING CONTOURS ARE FROM PUBLIC SOURCES (NY GIS CLEARINGHOUSE) AND ARE NOT THE RESULT OF A CIVIL SURVEY.
 6. BATHYMETRIC DATA IS FROM PUBLIC SOURCES (NOAA). ADDITIONAL SURVEY WILL BE REQUIRED TO VERIFY EXACT LOCATION OF MUDLINE.
 7. HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD1988.
 8. CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.
 9. ALL ELEVATION SHOWN IN PROFILE REPRESENT NAVD88.
 10. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.



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111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019

Client



A	05/13/2022	JSR	ISSUED FOR ARTICLE VII APPLICATION	MDN	ML
Rev	Date	Drawn	Description	Ch'k'd	App'd

_____ Date _____

Project Number
505100001

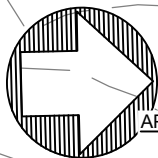
B/O

Total

Designed	MDN	Eng check	MDN
Drawn	JSR	Coordination	KEK
Dwg check	KEK	Approved	MDN
Scale at ARCH D	Status	Rev	Security
As Shown	PRE	A	STD
Drawing Number LANDFALL A - HDD PLAN AND PROFILE			

Title

EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2
LANDFALL A - HDD PLAN AND PROFILE
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION



APPROXIMATE CONDUIT END LOCATION

LAT: 40.5777°
LONG: -73.6615°

4H:1V SIDE SLOPE
(TYP.)

-0+75

-0+50

-0+25

-0+00

0+25

0+50

0+75

END OF
CONDUIT

DREDGE AREA
MAXIMUM DEPTH 11.5'
APPROXIMATE DREDGE
VOLUME OF 1,007 CY

PREINSTALLED
CONDUIT

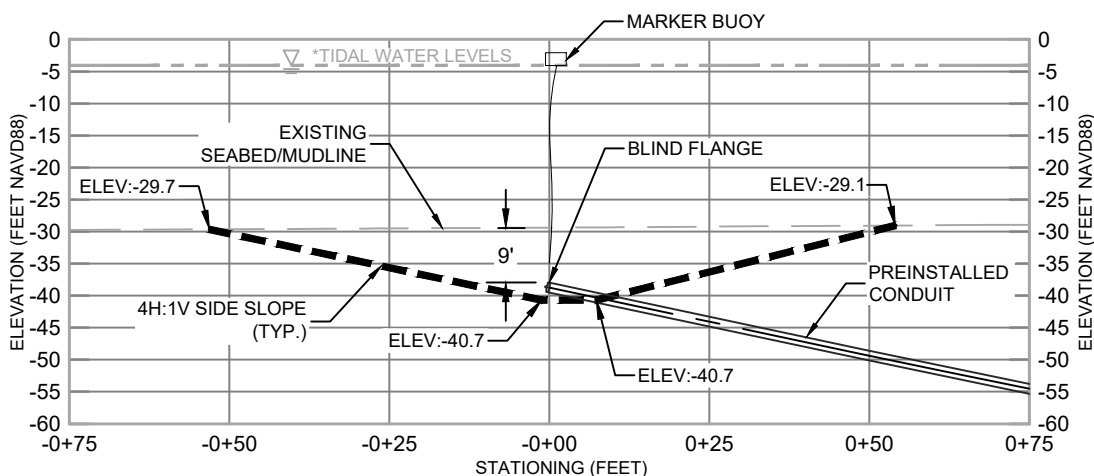
*TIDAL WATER LEVELS

ALL TIDAL WATER LEVELS ARE IN NAVD88

ASTRONOMICAL HIGH TIDE = 3.30 FT
MEAN HIGHER-HIGH WATER = 2.20 FT
MEAN HIGH WATER = 1.9 FT

PLAN VIEW

1" = 30'



PROFILE

HORZ. SCALE: 1" = 30'

VERT. SCALE: 1" = 30'

NOTES:

1. HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD1988.
2. CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.
3. ALL ELEVATION SHOWN IN PROFILE REPRESENT NAVD88.
4. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
5. HIGHEST ASTRONOMICAL TIDE PER NOAA TIDAL STATION 8516663 IN LONG BEACH, NY.

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0 15 30
HORIZONTAL SCALE: 1" = 30'

0 15 30
VERTICAL SCALE: 1" = 30'

Title

EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
EXCAVATION PIT FOR HDD
(FOR SUBMARINE CABLE PULLING OPERATIONS AT LANDFALL)
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION

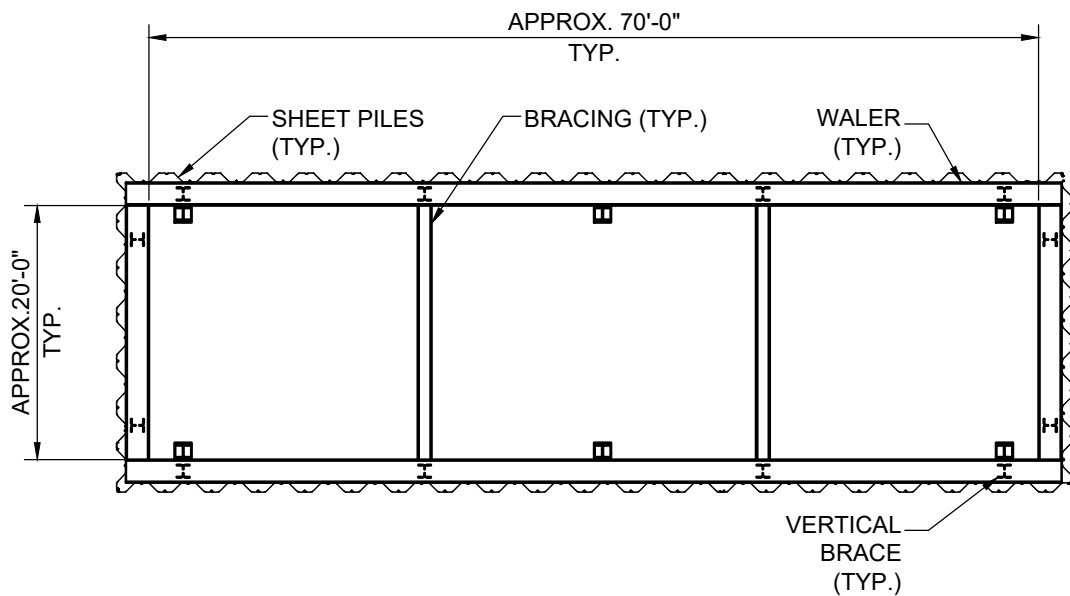
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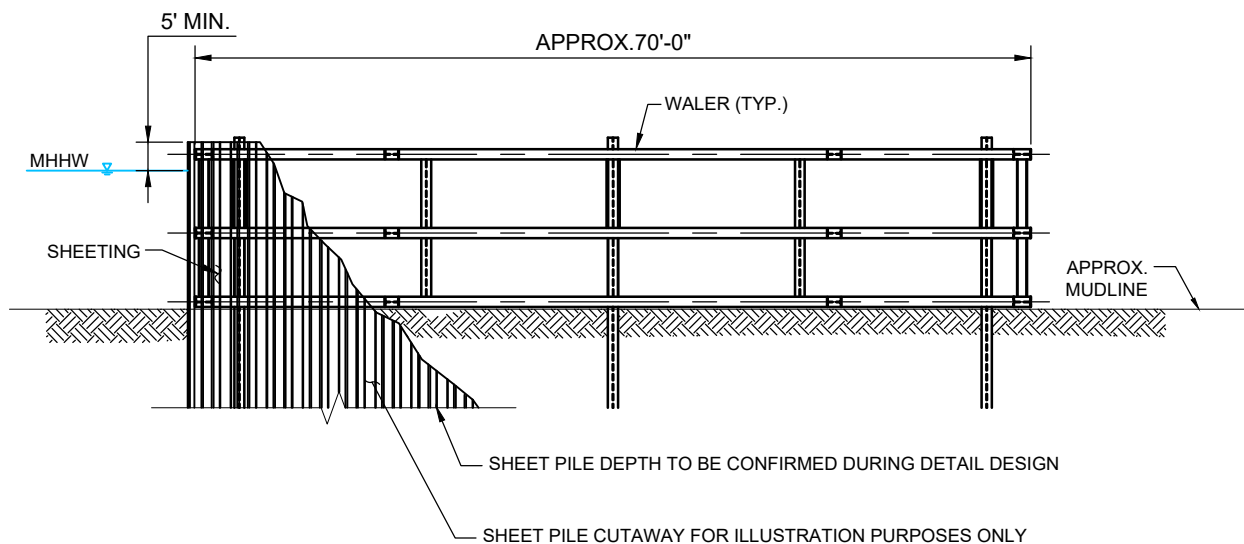
**MOTT
MACDONALD**

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Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	Status	Rev
5/13/2022	JSR	KEK	MDN	As Shown	EXCAVATION PIT FOR HDD	PRE	A



PLAN VIEW
N.T.S.



SECTION
N.T.S.

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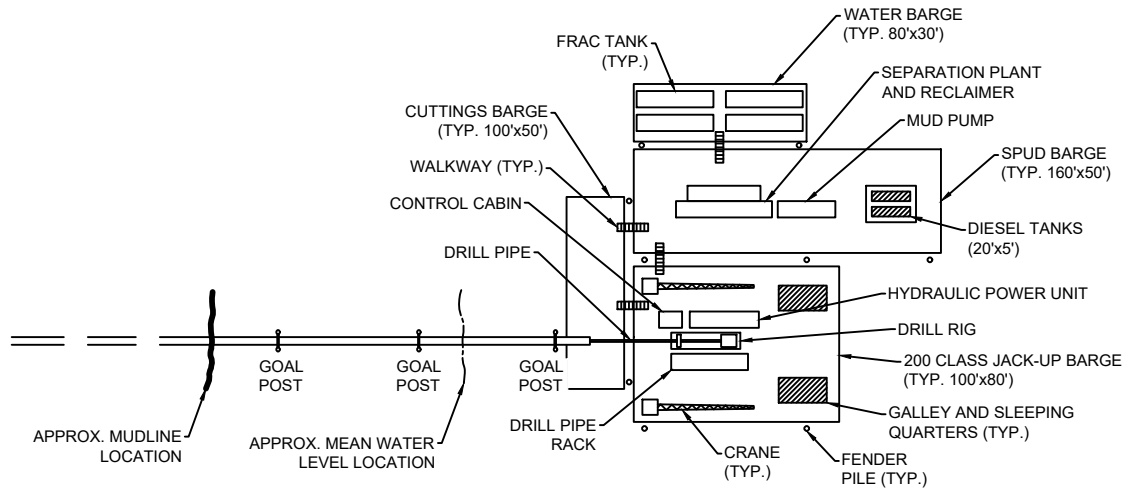
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EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
COFFERDAM DETAIL
PLAN & ELEVATION
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION

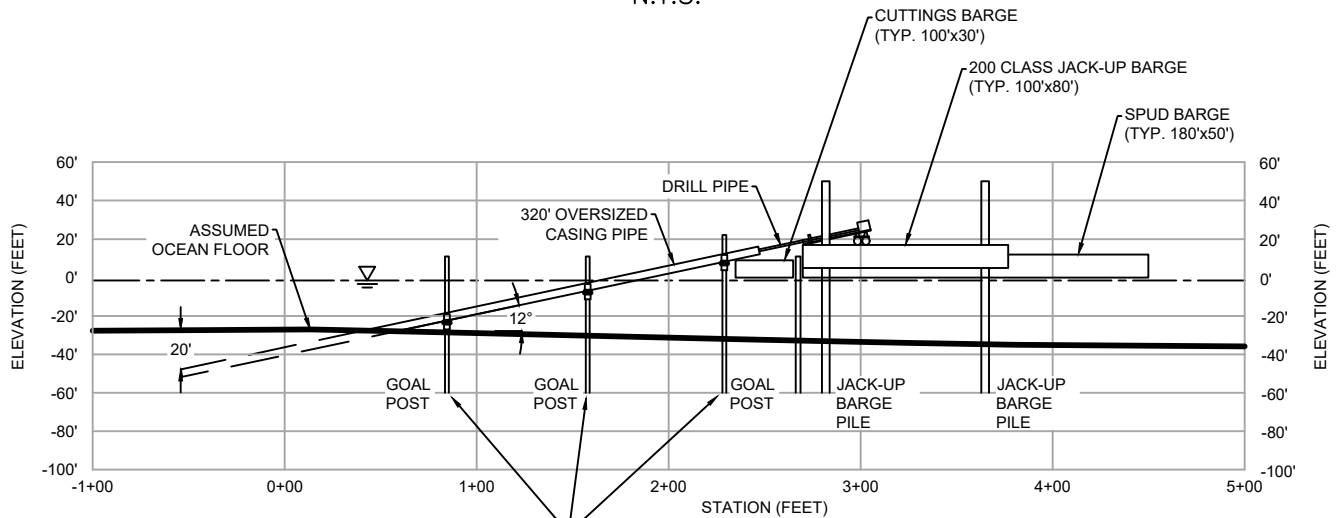


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Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	Status	Rev
01/24/2022	DOW	KEK	MDN	As Shown	COFFERDAM DETAIL	PRE	A



PLAN VIEW N.T.S.



PROFILE N.T.S.

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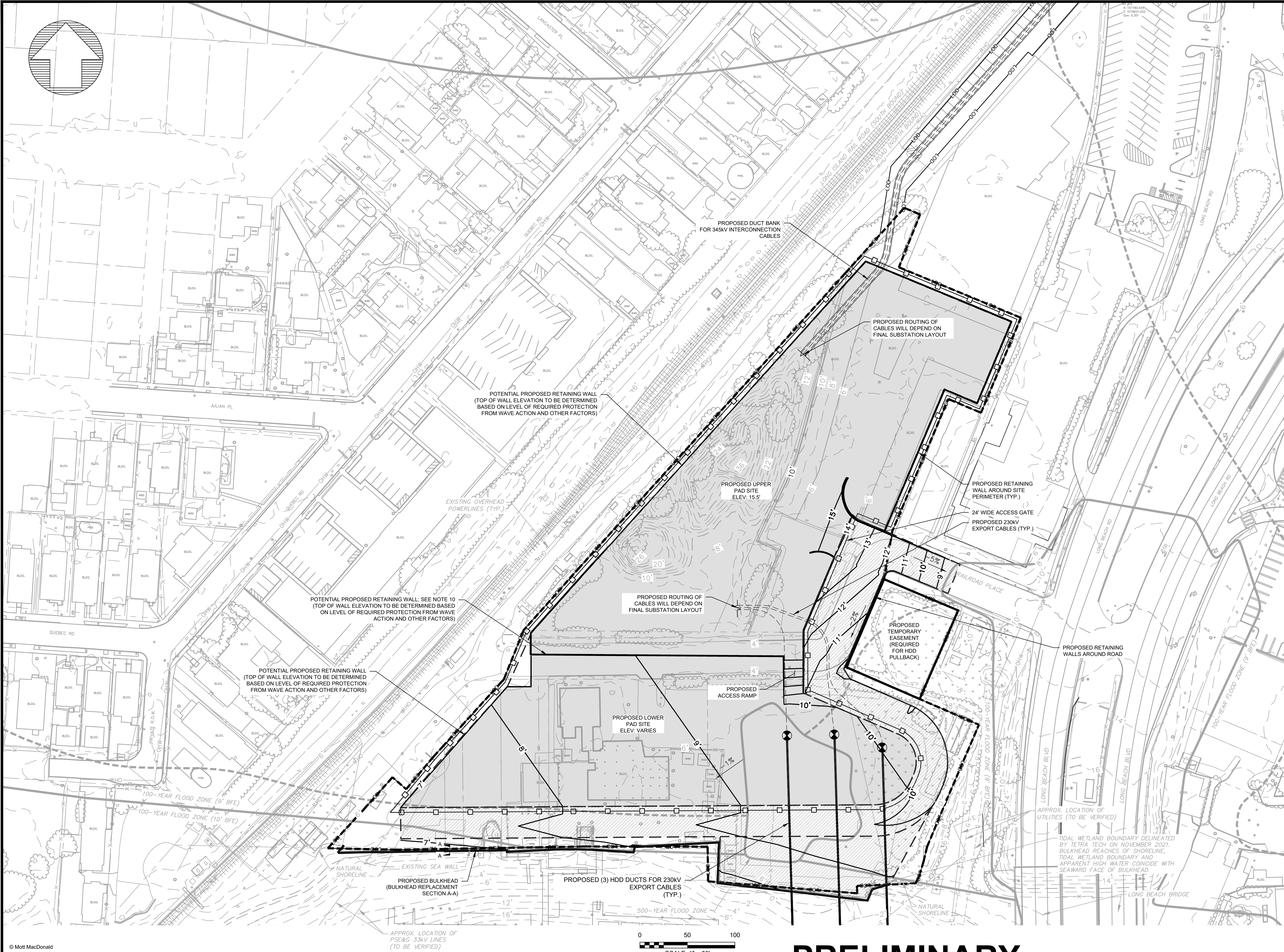
Title

EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
HDD LANDFALL EXIT LOCATION
EQUIPMENT SPREAD TYPICAL DETAIL
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION

M
M
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MACDONALD

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Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	Status	Rev
01/24/2022	DOW	KEK	MDN	As Shown	HDD LANDFALL EXIT LOCATION EQUIPMENT SPREAD TYPICAL DETAIL	PRE	A



LEGEND

EXISTING FEATURES

PROPERTY LINES

CENTERLINE ROAD

GAS MAIN

OVERHEAD ELECTRIC

RAILROAD TRACKS

100-YEAR / 500-YEAR FLOOD ZONE

TIDAL WETLAND ADJACENT AREA

NATURAL SHORELINE

LIMWA LINE (LIMIT OF MODERATE WAVE ACTION)

POWER POLE

MAJOR CONTOUR

MINOR CONTOUR

BUILDING

PROPOSED FEATURES

FACILITY LIMITS

SITE PAD

TRAVEL AREA/PARKING

HDD

HDD ENTRY/EXIT

PROPOSED DUCT BANK

FACILITY FENCE (MIN. HEIGHT 10')

TEMPORARY EASEMENT ON PRIVATE PROPERTY

PROPOSED BULKHEAD LINE

PROPOSED EXPORT CABLES

- NOTES
1. EXISTING 2' CONTOURS SHOWN ARE FROM NY GIS CLEARINGHOUSE AND IS NOT REFLECTIVE OF A TOPOGRAPHIC SURVEY.

2. EXISTING FEATURES SHOWN ON THIS PLAN PROVIDED BY ROBINSON AERIAL ON 09/22/2021.

3. PROPERTY LINES SHOWN ARE TAX MAP GRADE FROM DIGITAL MAP PRODUCTS.

4. HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD1988.

5. THE PRELIMINARY FIRMS SHOW THE SITE IS IN A AE ZONE WITH BFE AT 9'/10' (AS SHOWN) NAVD88. THE SITE IS ALSO PARTIALLY WITHIN THE LIMWA LINE (LIMIT OF MODERATE WAVE ACTION, WAVES HEIGHTS 1.5 FT OR HIGHER).

6. CONSTRUCTION SEQUENCING TO BE DETERMINED. CURRENT CONCEPTUAL SITE LAYOUT ASSUMES PROPOSED HDD INSTALLATION TO BE COMPLETED PRIOR TO BUILDING AND EQUIPMENT INSTALLATION.

7. CURRENT PROPOSED SITE GRADING IS CONCEPTUAL AND WILL BE REVISED FOLLOWING DETAILED DESIGN.

8. TIDAL WETLAND BOUNDARY SHOWN PROVIDED BY TETRA TECH NOVEMBER 2021.

9. THE PROPOSED UPPER PAD SITE IS CURRENTLY SHOWN AT AN ELEVATION OF 15.5'. THIS ELEVATION INCLUDES THE 500-YR WATER LEVEL OF 13.88' NAVD88 AND RELATIVE SEA LEVEL RISE (RSLR) OF 1.63'. THE 500-YR WATER LEVEL IS THE 50% CONFIDENCE LEVEL VALUE EXTRACTED FROM THE NORTH ATLANTIC COAST COMPREHENSIVE STUDY (NACCS) SAVE POINT 12078 (USAGE, 2015), AND THE RSLR VALUE IS THE 83RD PERCENTILE RCP 8.5 2050s PROJECTION FOR NYC FROM KOPP ET AL. (2014). THE FINAL ELEVATION WILL NEED TO BE REFINED DURING DESIGN PHASE BASED ON A NUMBER OF FACTORS.

10. FOR RETAINING WALL, THE TOP OF WALL ELEVATION TO BE DETERMINED BASED ON LEVEL OF REQUIRED PROTECTION FROM WAVE ACTION AND OTHER FACTORS.

Rev	Date	Drawn	Description	Ch'k'd	App'd
A	03/2022	DOW	ISSUED FOR ARTICLE VII APPLICATION	KEK	MDN

M

MOTT MACDONALD

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111 Wood Avenue South
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Certificate of Authorization #: 0017019

Client

equinor

Title

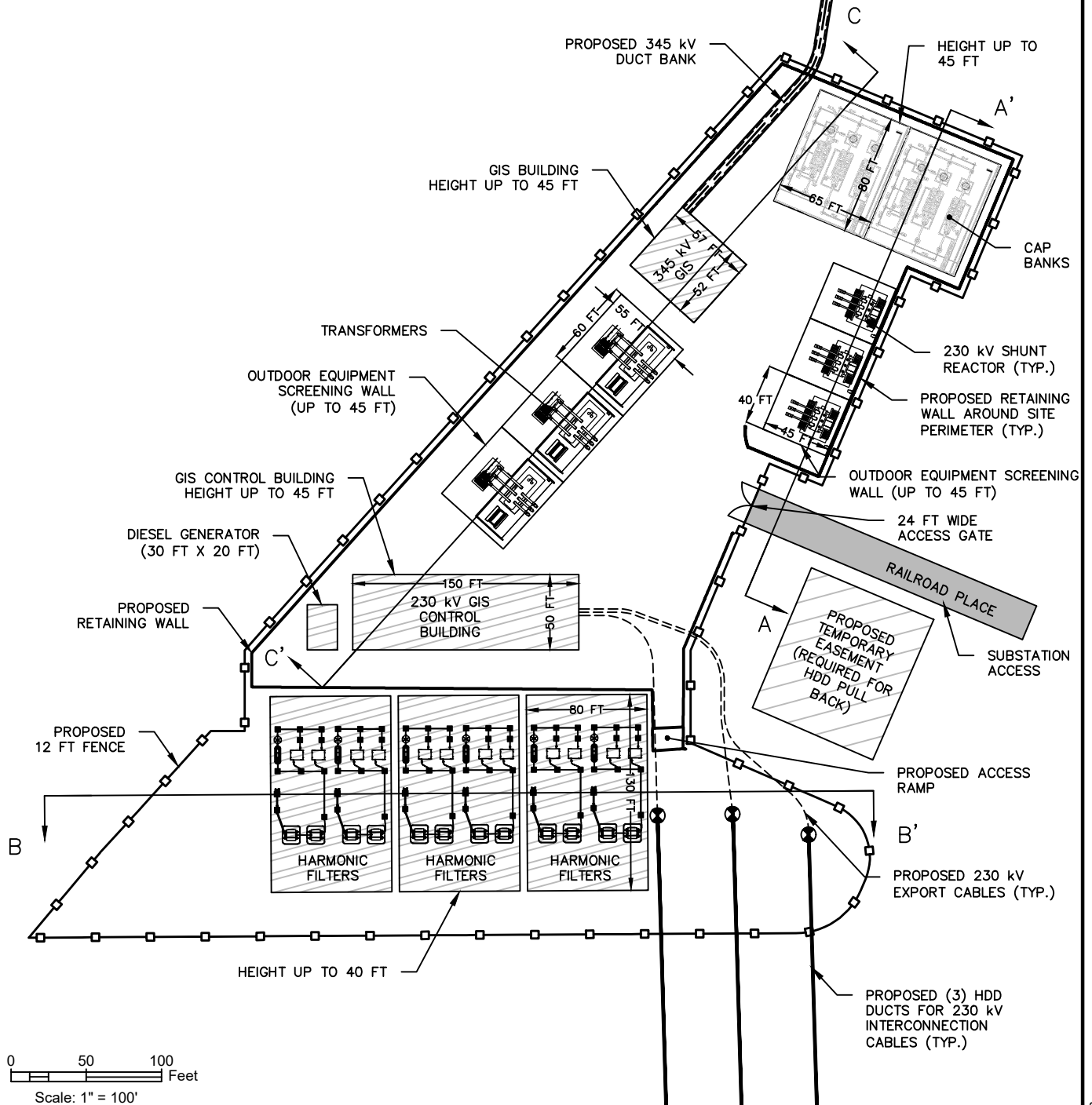
EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
NASSAU COUNTY, NEW YORK
ONSHORE SUBSTATION SITE PREPARATION PLAN
ISSUED FOR ARTICLE VII APPLICATION

Designed	DOW	Eng check	MDN
Drawn	DOW	Approved	MDN
Dwg check	MDN	Project Mngr	MDN
Scale at ANSI D	Date	Rev	
1" = 50'	03/22	A	
Drawing Number	001		

PRELIMINARY

DRAFT – NOT FOR CONSTRUCTION

1. DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE AS DESIGN IS FINALIZED.
2. SUBSTATION SITE TO BE ELEVATED. MAX HEIGHT WILL NOT EXCEED 60 FT ABOVE EXISTING GRADE (INCLUDES ELEVATION AND STRUCTURES).



0 50 100
Feet
Scale: 1" = 100'



www.tetrattech.com

10 Post Office Square, 11th Floor
Boston, MA 02109
Phone: (617) 443-7500 Fax: (617) 737-3480

Empire Offshore Wind LLC

Empire Wind 2 Project
Substation Layout

NOTE: DIMENSIONS ARE APPROXIMATE
AND SUBJECT TO CHANGE AS DESIGN IS
FINALIZED.

PROJ: 194-1247-0001

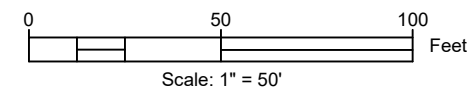
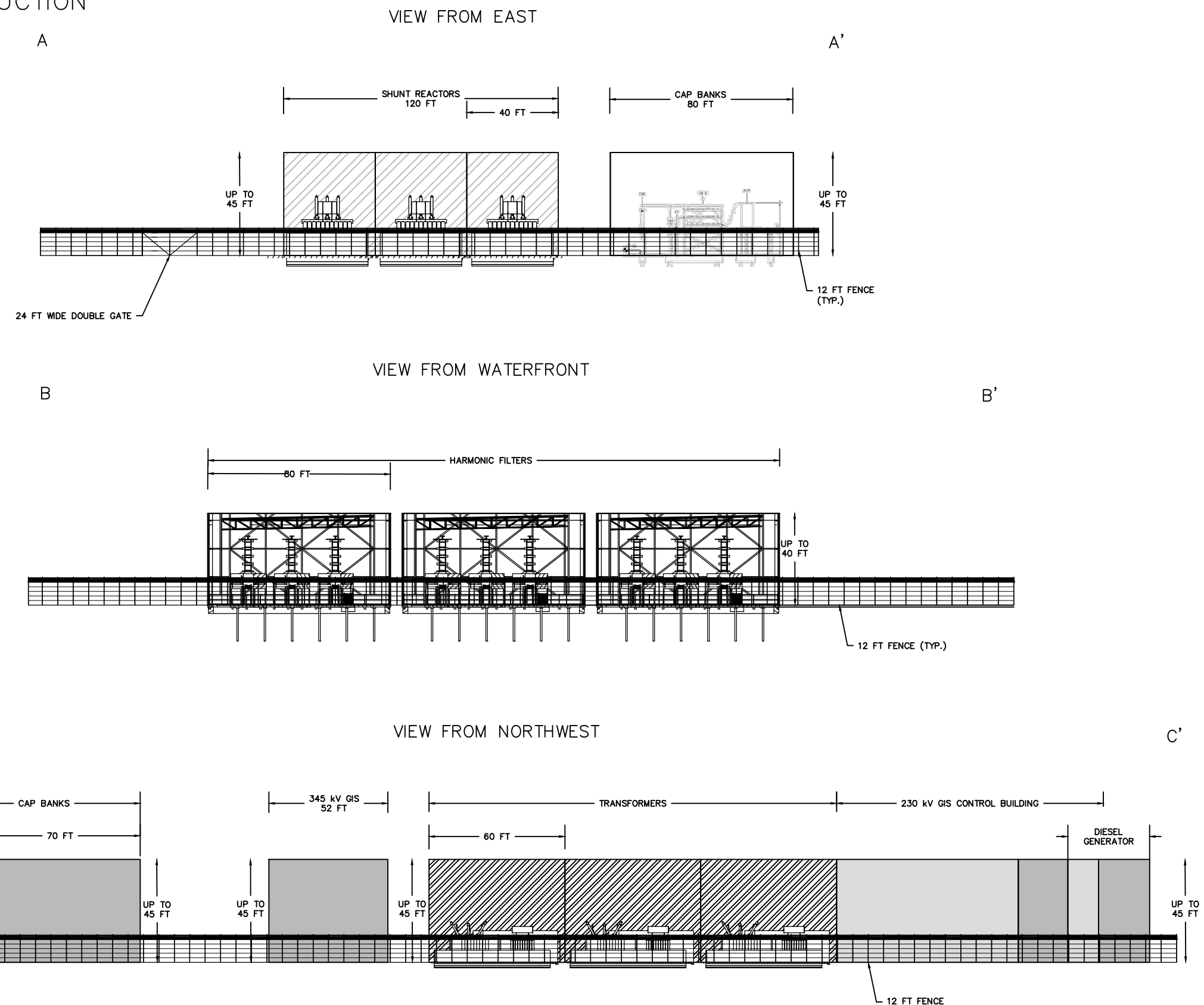
DATE: 02/14/2022

DESN: S. Goyette

Figure

1

DRAFT – NOT FOR CONSTRUCTION



1. DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE AS DESIGN IS FINALIZED.
2. SUBSTATION SITE TO BE ELEVATED. MAX HEIGHT WILL NOT EXCEED 60 FT ABOVE EXISTING GRADE (INCLUDES ELEVATION AND STRUCTURES).



TETRA TECH

www.tetratech.com

10 Post Office Square, 11th Floor
Boston, MA 02109

Phone: (617) 443-7500 Fax: (617) 737-3480

Empire Offshore Wind LLC

Empire Wind 2 Project
Substation Layout

PROJ: 194-1247-0001

DATE: 02/14/2022

DESN: S. Goyette

Figure

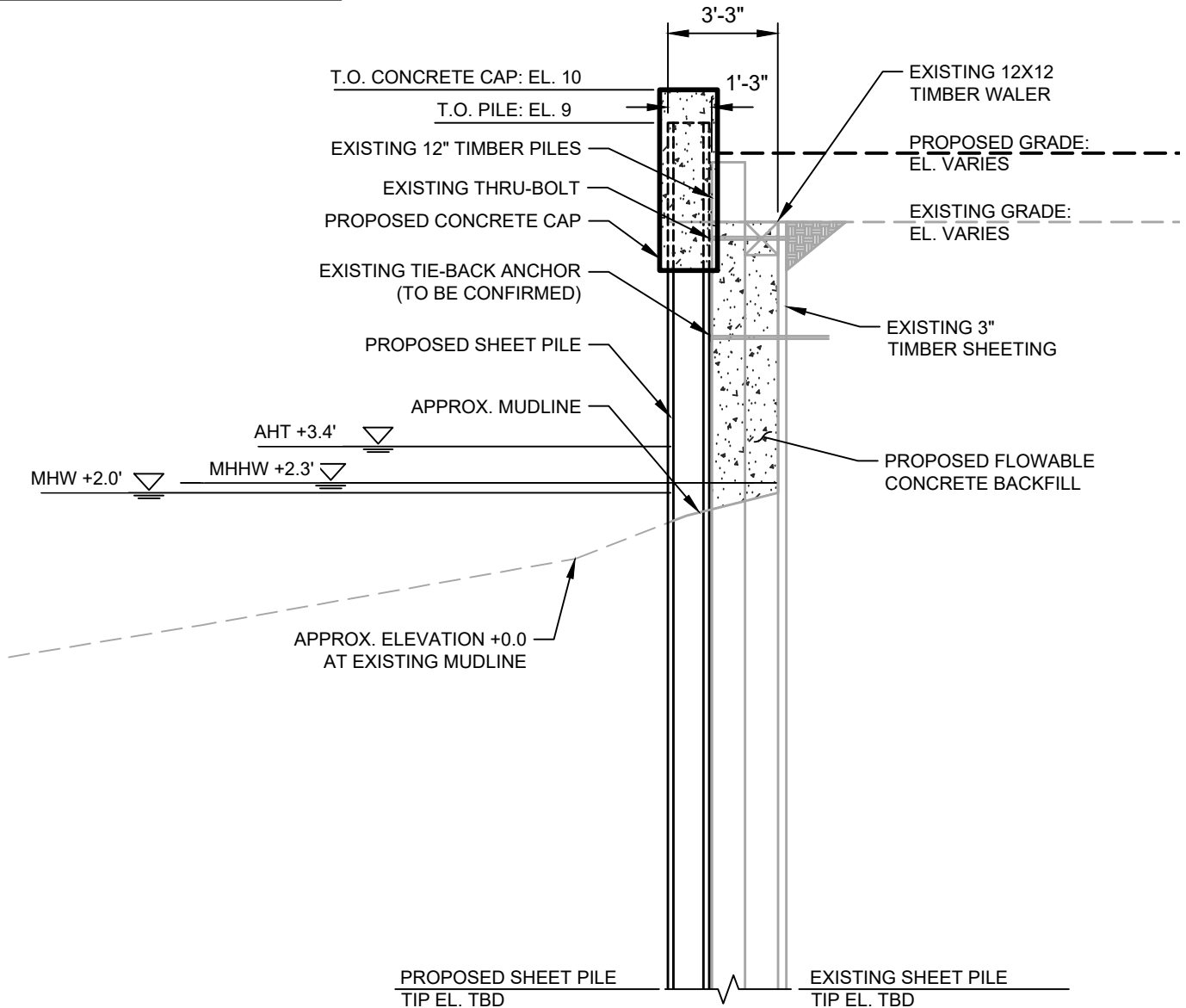
2

Bar Measures 1 inch

TIDAL WATER LEVELS

ALL TIDAL WATER LEVELS ARE IN NAVD88

ASTRONOMICAL HIGH TIDE = 3.40 FT
MEAN HIGHER-HIGH WATER = 2.30 FT
MEAN HIGH WATER = 2.0 FT



1. EXISTING SHEET PILE DEPTHS UNKNOWN AND TO BE FIELD VERIFIED.
2. CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.
3. ALL ELEVATION SHOWN IN SECTION REPRESENT NAVD88.
4. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
5. HIGHEST ASTRONOMICAL TIDE PER NOAA TIDAL STATION 8516663 IN LONG BEACH, NY.

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THIS DOCUMENT IS ISSUED FOR THE PARTY WHICH COMMISSIONED IT AND FOR SPECIFIC PURPOSES CONNECTED WITH THE CAPTIONED PROJECT ONLY. IT SHOULD NOT BE RELIED UPON BY ANY OTHER PARTY OR USED FOR ANY OTHER PURPOSE. WE ACCEPT NO RESPONSIBILITY FOR THE CONSEQUENCES OF THIS DOCUMENT BEING RELIED UPON BY ANY OTHER PARTY, OR BEING USED FOR ANY OTHER PURPOSE, OR CONTAINING ANY ERROR OR OMISSION WHICH IS DUE TO AN ERROR OR OMISSION IN DATA SUPPLIED TO US BY OTHER PARTIES.

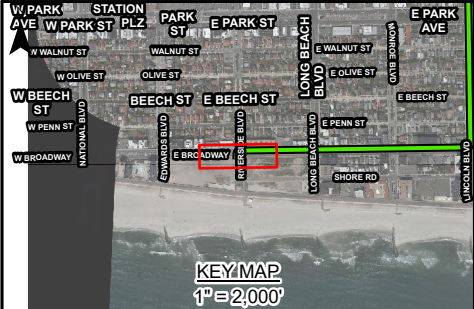
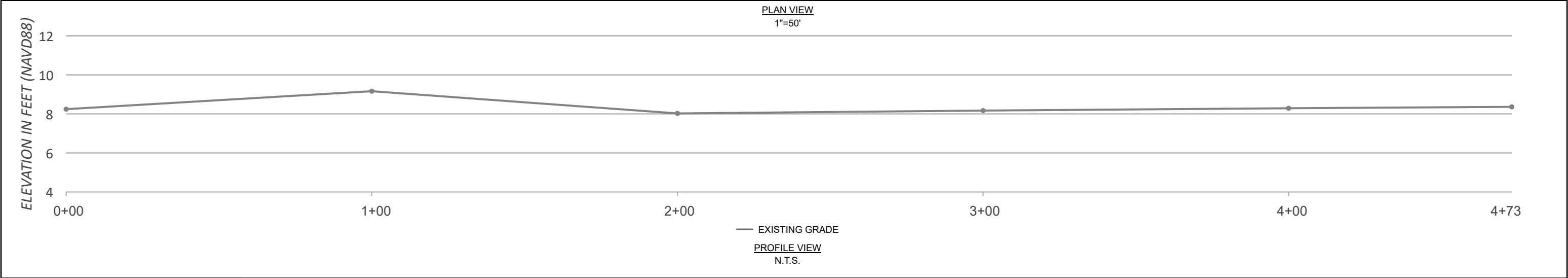
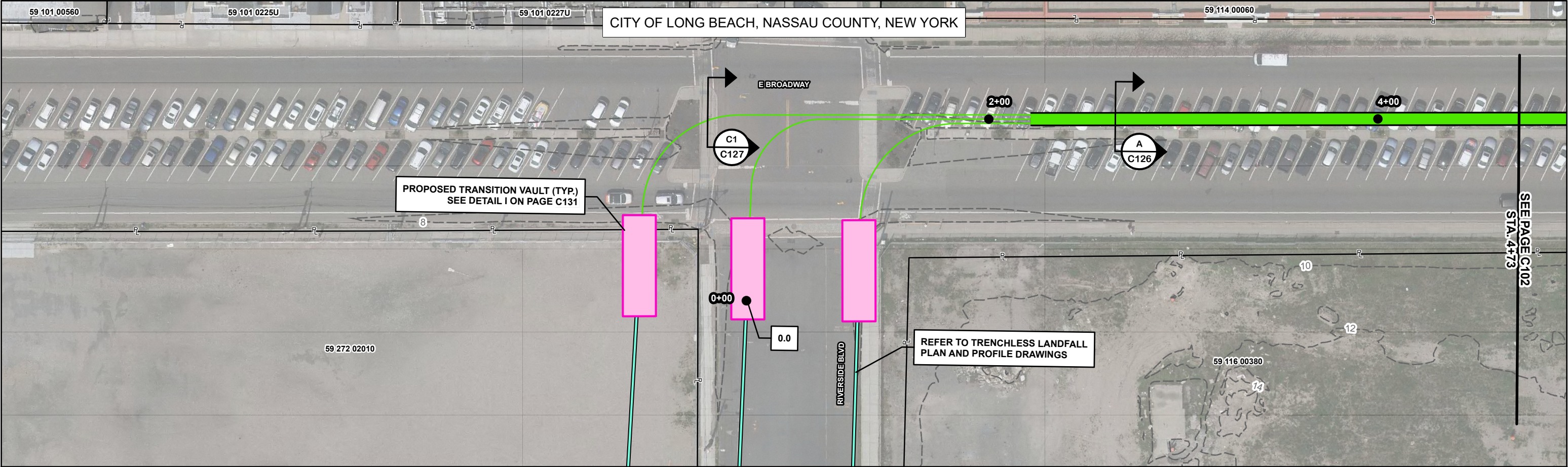
Title

EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
BULKHEAD REPLACEMENT
SECTION A-A
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION

M
M
MOTT
MACDONALD

Mott MacDonald NY Inc.
111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019

Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	Status	Rev
01/28/2022	DOW	KEK	MDN	1" = 5'	BULKHEAD REPLACEMENT SECTION A-A	PRE	A



LEGEND - PROPOSED

- 200' STATION
- MILE POST
- 230 kV DUCT BANK CENTERLINE (3 CIRCUITS)
- 345 kV DUCT BANK CENTERLINE (3 CIRCUITS)
- 230 kV EXPORT CABLE (SINGLE CIRCUIT)
- 345 kV EXPORT CABLE (SINGLE CIRCUIT)
- POI FENCE
- HORIZONTAL AUGER BORE (TRENCHLESS CROSSING)
- HORIZONTAL DIRECTIONAL DRILL (TRENCHLESS CROSSING)
- JOINT BAY
- TRANSITION VAULT
- TEMPORARY AUXILIARY PIT
- SUBSTATION

LEGEND - EXISTING

- 2' CONTOUR
- PUBLIC CONTOUR BOUNDARY
- PROPERTY LINE*
- JURISDICTIONAL BOUNDARY**

*ASSESSOR'S PARCEL NO. (APN) SHOWN WITHIN PROPERTY LINE

**SOURCE NY GIS CLEARINGHOUSE

NOTES

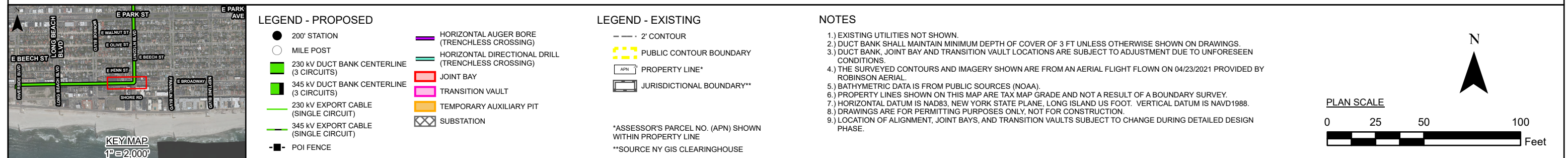
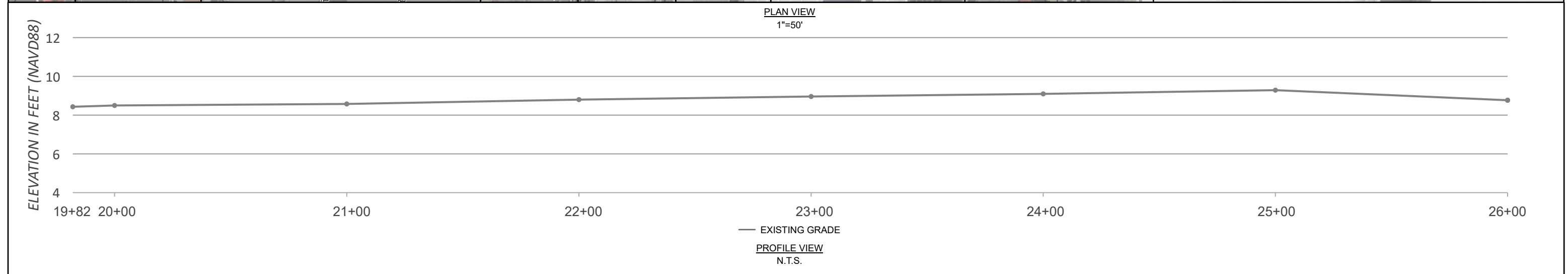
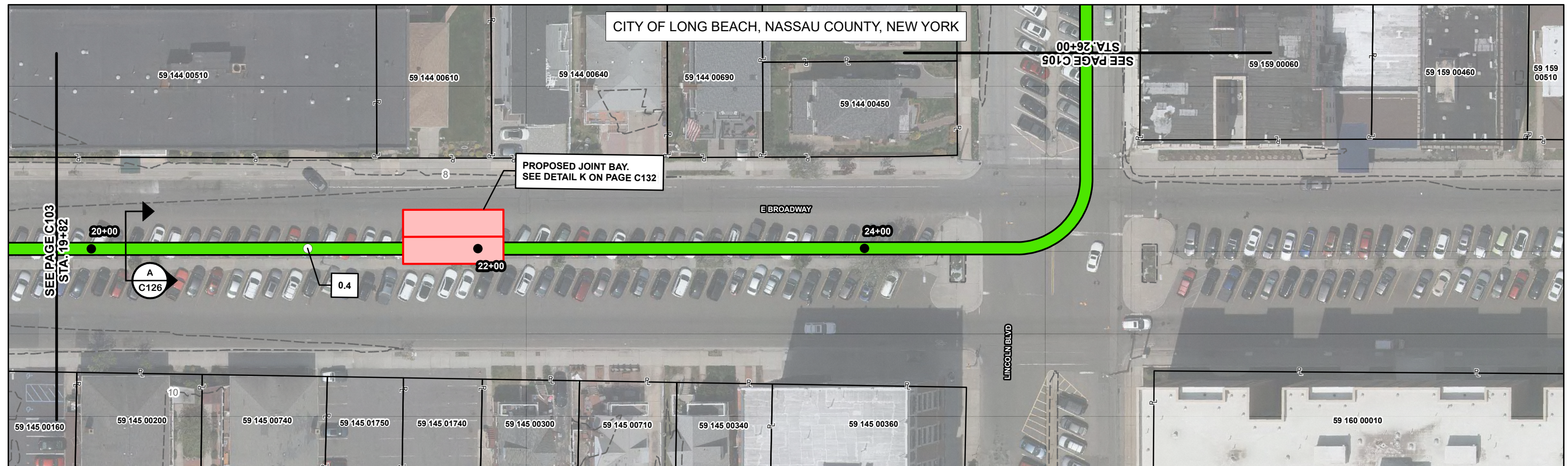
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PLAN SCALE

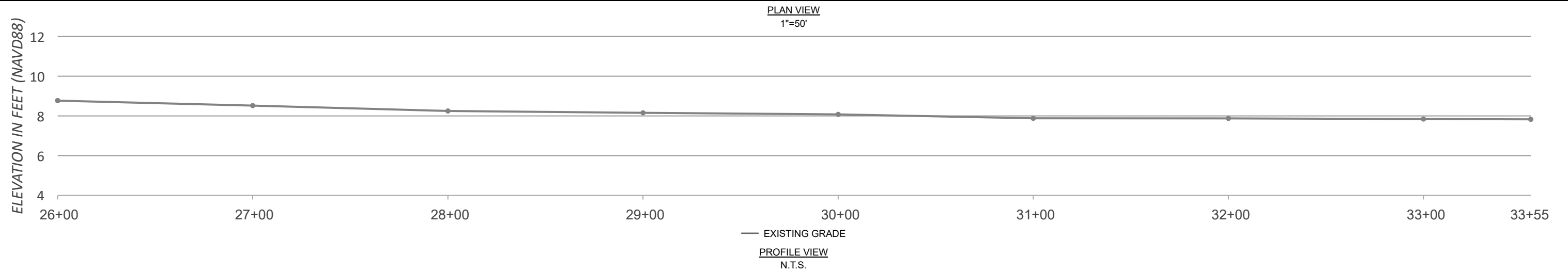
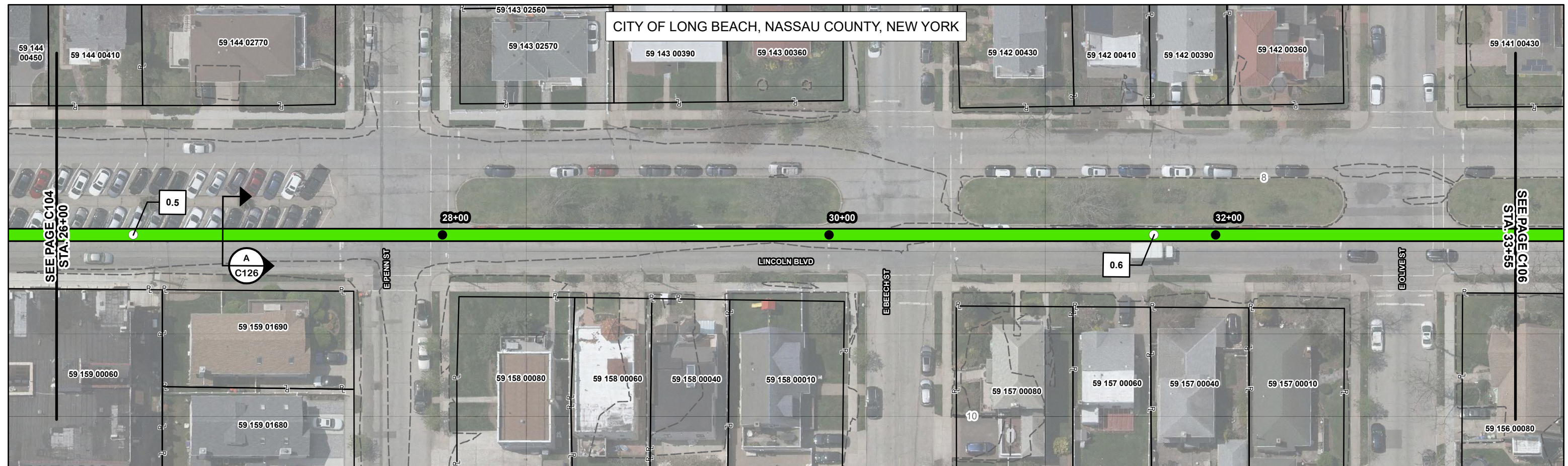
0 25 50 100 Feet

North Arrow














<div><div>M</div><div>M</div><div>MOTT MACDONALD</div></div> <div>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</div>	<div>Client:</div> <div><div><div></div><div>equinor</div></div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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 <p>MOTT MACDONALD</p> <p>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</p> <div style="text-align: center;">  equinor </div> <p><small>© Mott MacDonald This document is issued for the party which commissioned it and for specific purposes connected with the captioned project only. It should not be relied upon by any other party or used for any other purpose. We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties.</small></p>	Client:								D'gn'd			Eng Chk			Title EMPIRE OFFSHORE WIND LLC. EMPIRE WIND 2 PROJECT PLAN AND PROFILE NASSAU COUNTY, NEW YORK ISSUED FOR ARTICLE VII APPLICATION
									Drawn			Coord.			
									Dwg Chk			App'd			
									Plan Scale 1" = 50'	Status PRE	Rev A	Security STD			
		A	05/13/2022	SNP	ISSUED FOR ARTICLE VII APP.	KEK	MDN		Project Number 505100001			B/O	Total	Drawing Number C104	
		Rev	Date	Drawn	Description	Ch'k'd	App'd								



LEGEND - PROPOSED

- | | | | |
|---|---|---|---|
|  | 200' STATION |  | HORIZONTAL AUGER BORE
(TRENCHLESS CROSSING) |
|  | MILE POST |  | HORIZONTAL DIRECTIONAL DRILL
(TRENCHLESS CROSSING) |
|  | 230 kV DUCT BANK CENTERLINE
(3 CIRCUITS) |  | JOINT BAY |
|  | 345 kV DUCT BANK CENTERLINE
(3 CIRCUITS) |  | TRANSITION VAULT |
|  | 230 kV EXPORT CABLE
(SINGLE CIRCUIT) |  | TEMPORARY AUXILIARY PIT |
|  | 345 kV EXPORT CABLE
(SINGLE CIRCUIT) |  | SUBSTATION |
|  | POI FENCE | | |

LEGEND - EXISTING

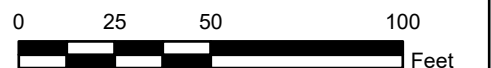
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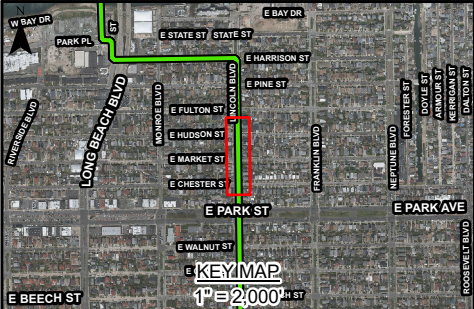
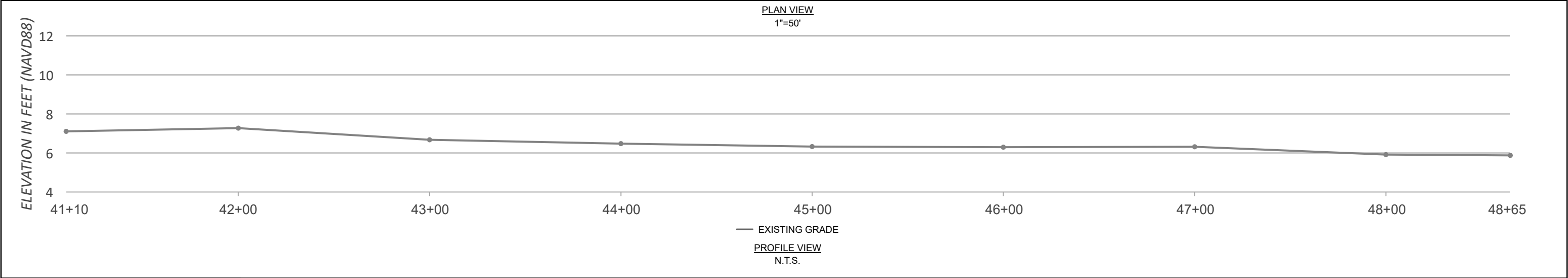
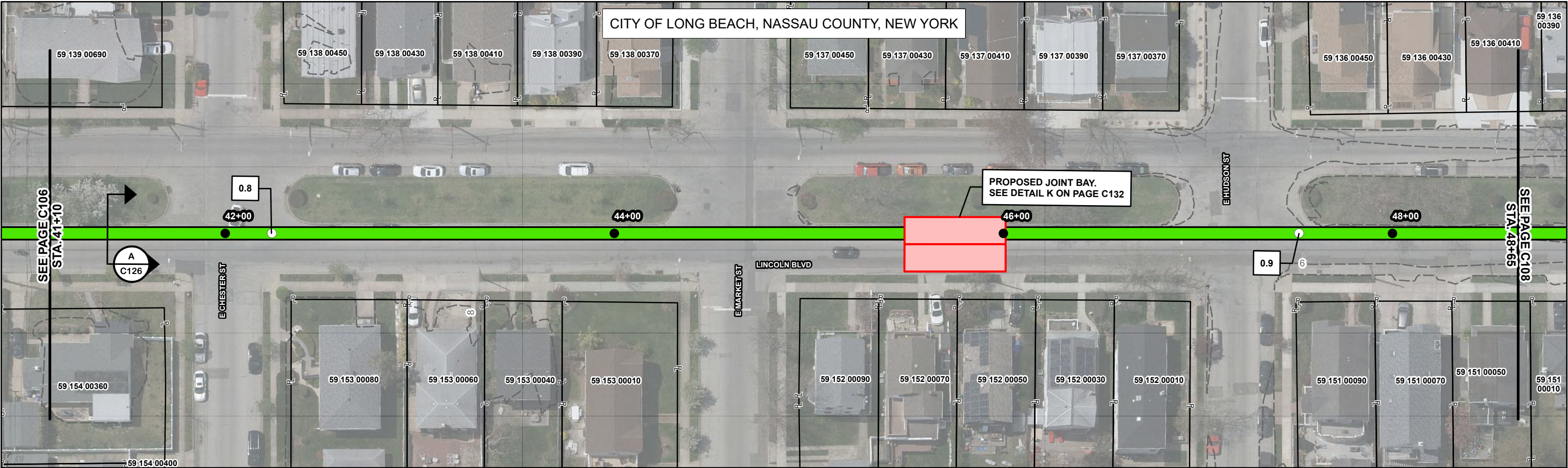
**SOURCE NY GIS CLEARINGHOUSE

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										Drawn			Coord.			
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			Rev	Date	Drawn	Description	Ch'k'd	App'd		Project Number 505100001	B/O	Total	Drawing Number C105			



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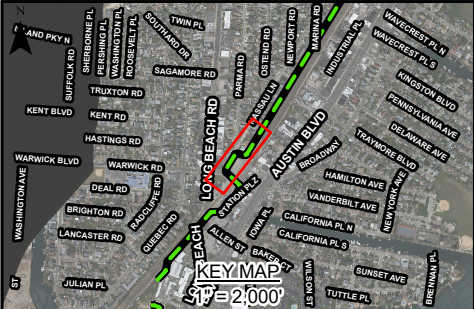
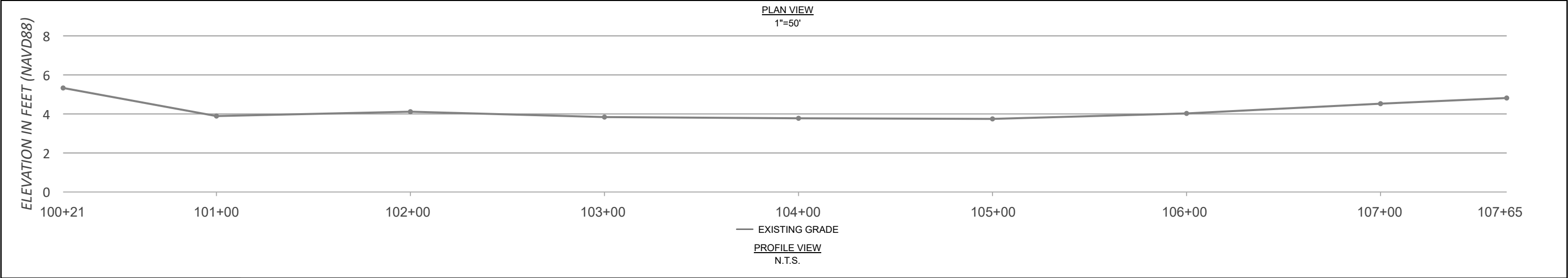
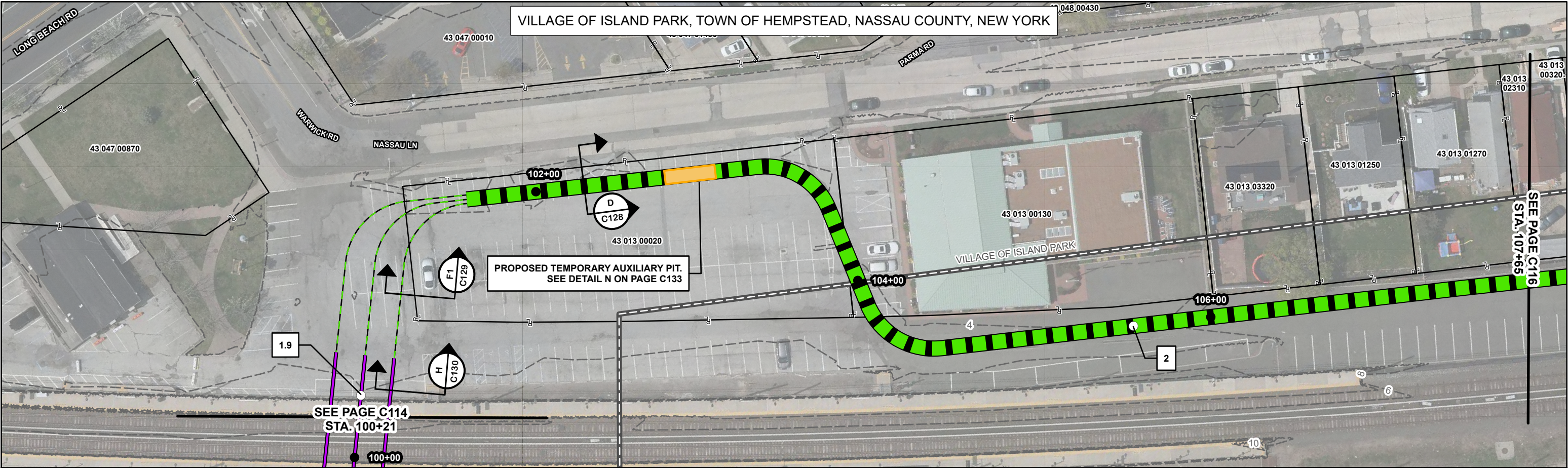
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PLAN SCALE

0 25 50 100 Feet

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LEGEND - PROPOSED

- 200' STATION
- MILE POST
- 230 kV DUCT BANK CENTERLINE (3 CIRCUITS)
- 345 kV DUCT BANK CENTERLINE (3 CIRCUITS)
- 230 kV EXPORT CABLE (SINGLE CIRCUIT)
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- POI FENCE
- HORIZONTAL AUGER BORE (TRENCHLESS CROSSING)
- HORIZONTAL DIRECTIONAL DRILL (TRENCHLESS CROSSING)
- JOINT BAY
- TRANSITION VAULT
- TEMPORARY AUXILIARY PIT
- SUBSTATION

LEGEND - EXISTING

- 2' CONTOUR
- PUBLIC CONTOUR BOUNDARY
- PROPERTY LINE*
- JURISDICTIONAL BOUNDARY**

*ASSESSOR'S PARCEL NO. (APN) SHOWN WITHIN PROPERTY LINE
**SOURCE NY GIS CLEARINGHOUSE

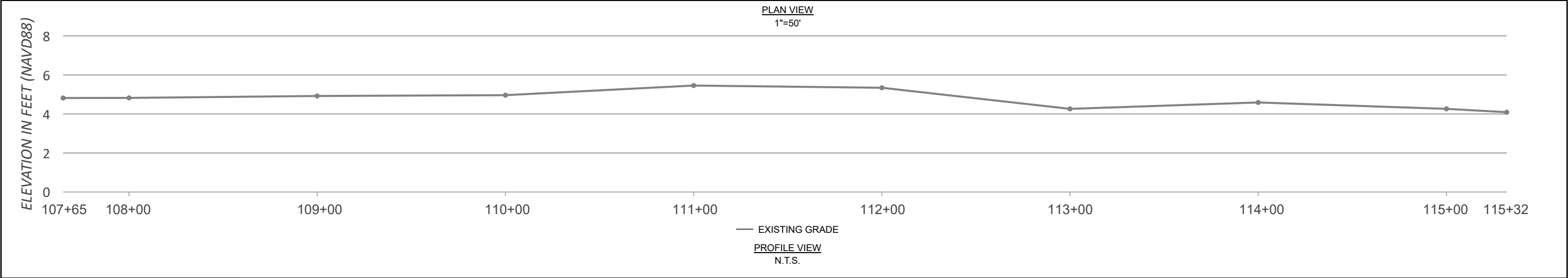
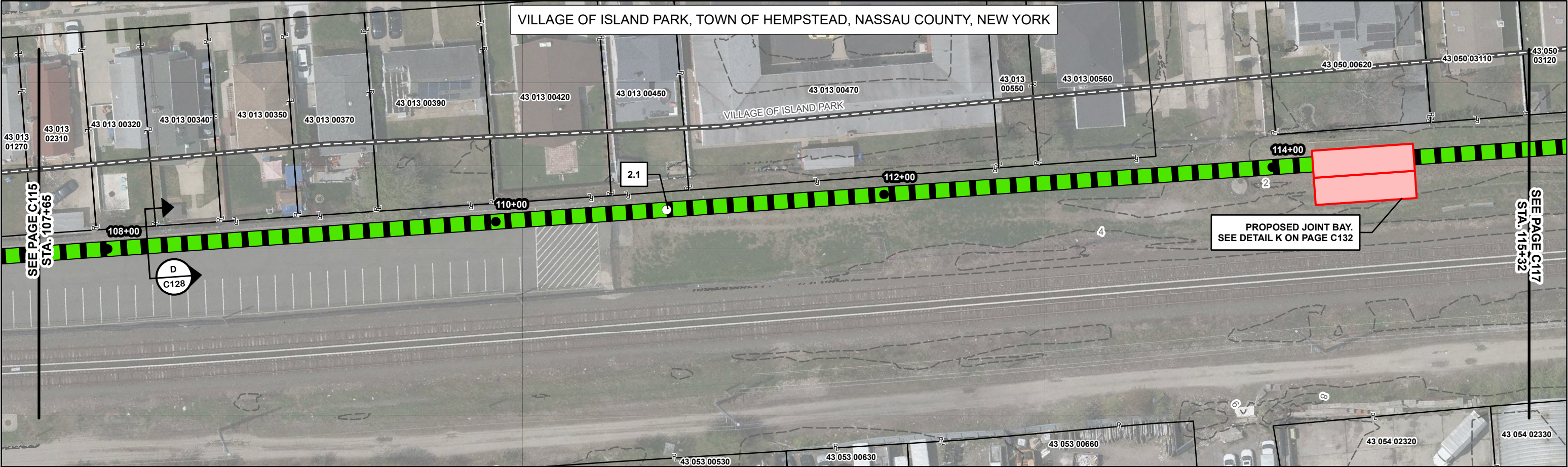
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- PROPERTY LINES SHOWN ON THIS MAP ARE TAX MAP GRADE AND NOT A RESULT OF A BOUNDARY SURVEY.
- HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD1988.
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PLAN SCALE

0 25 50 100 Feet

<div><div>M</div><div>M</div><div>MOTT MACDONALD</div></div> <div>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</div>	<div><div>equinor</div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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LEGEND - PROPOSED

- 200' STATION
- MILE POST
- 230 kV DUCT BANK CENTERLINE (3 CIRCUITS)
- 345 kV DUCT BANK CENTERLINE (3 CIRCUITS)
- 230 kV EXPORT CABLE (SINGLE CIRCUIT)
- 345 kV EXPORT CABLE (SINGLE CIRCUIT)
- POI FENCE
- HORIZONTAL AUGER BORE (TRENCHLESS CROSSING)
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LEGEND - EXISTING

- 2' CONTOUR
- PUBLIC CONTOUR BOUNDARY
- PROPERTY LINE*
- JURISDICTIONAL BOUNDARY**

*ASSESSOR'S PARCEL NO. (APN) SHOWN WITHIN PROPERTY LINE


**SOURCE NY GIS CLEARINGHOUSE

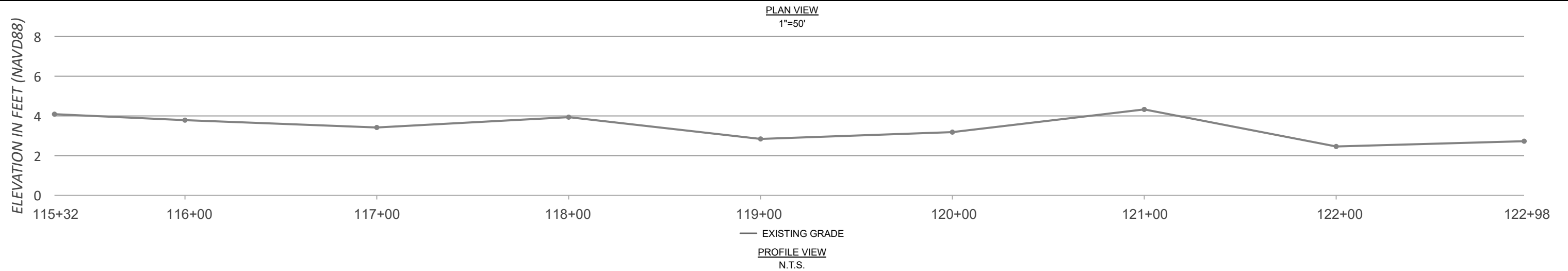
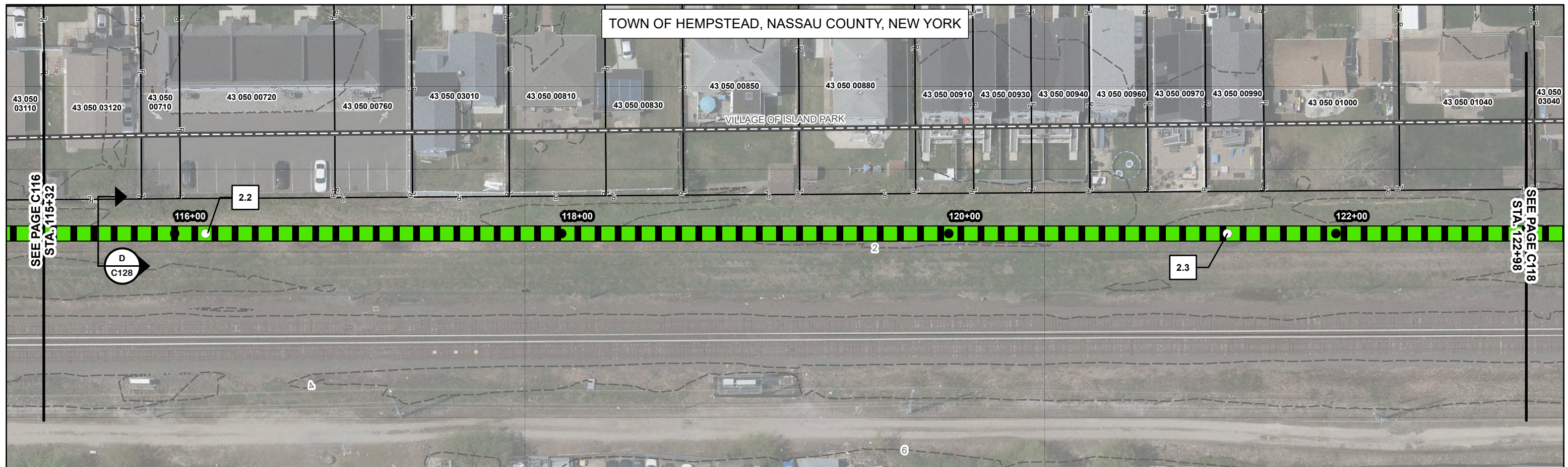
NOTES

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PLAN SCALE

0 25 50 100 Feet





<div>M</div> <div>M</div> <div>MOTT MACDONALD</div>	<div>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</div>	<div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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LEGEND - PROPOSED

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|  | 200' STATION |  | HORIZONTAL AUGER BORE
(TRENCHLESS CROSSING) |
|  | MILE POST |  | HORIZONTAL DIRECTIONAL DRILL
(TRENCHLESS CROSSING) |
|  | 230 kV DUCT BANK CENTERLINE
(3 CIRCUITS) |  | JOINT BAY |
|  | 345 kV DUCT BANK CENTERLINE
(3 CIRCUITS) |  | TRANSITION VAULT |
|  | 230 kV EXPORT CABLE
(SINGLE CIRCUIT) |  | TEMPORARY AUXILIARY PIT |
|  | 345 kV EXPORT CABLE
(SINGLE CIRCUIT) |  | SUBSTATION |
|  | POI FENCE | | |

LEGEND - EXISTING

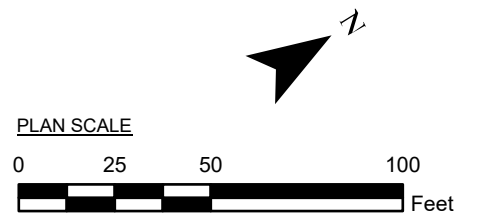
-  2' CONTOUR
 PUBLIC CONTOUR BOUNDARY
 PROPERTY LINE*
 JURISDICTIONAL BOUNDARY**

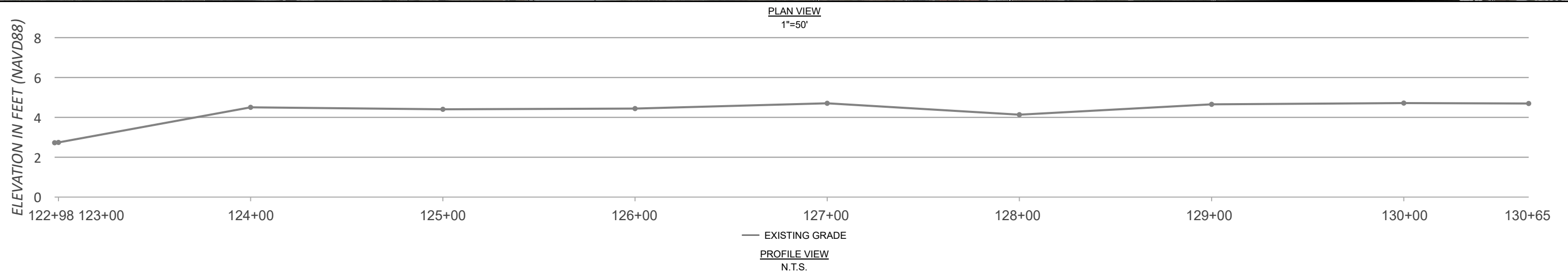
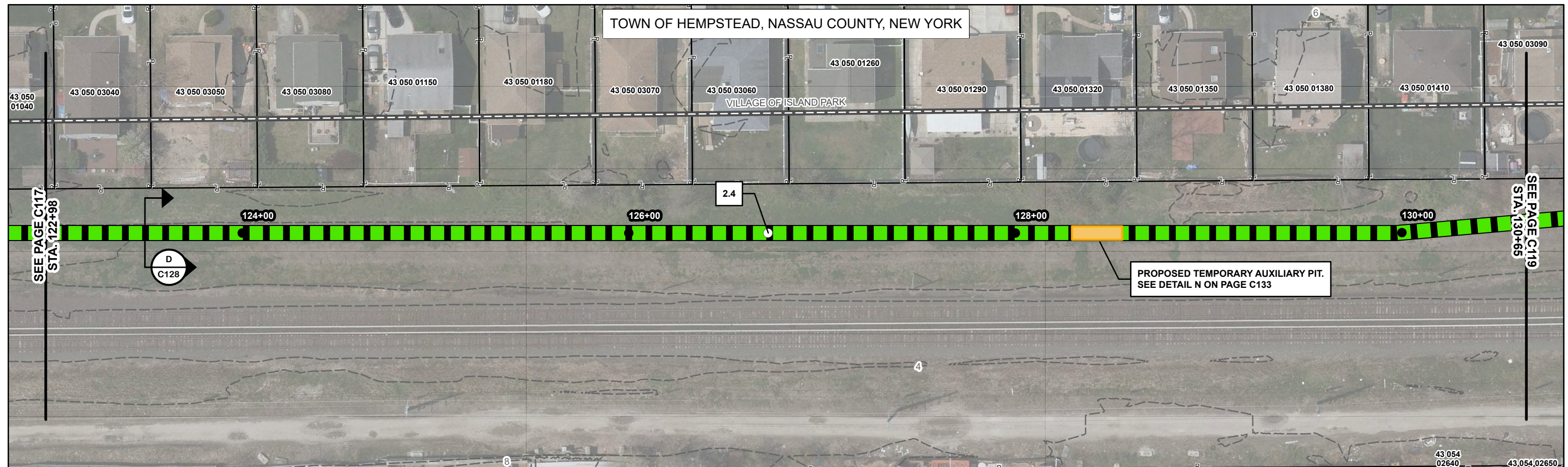
*ASSESSOR'S PARCEL NO. (APN) SHOWN
WITHIN PROPERTY LINE

**SOURCE NY GIS CLEARINGHOUSE














NOTES

- 1.) EXISTING UTILITIES NOT SHOWN.
- 2.) DUCT BANK SHALL MAINTAIN MINIMUM DEPTH OF COVER OF 3 FT UNLESS OTHERWISE SHOWN ON DRAWINGS.
- 3.) DUCT BANK, JOINT BAY AND TRANSITION VAULT LOCATIONS ARE SUBJECT TO ADJUSTMENT DUE TO UNFORESEEN CONDITIONS.
- 4.) THE SURVEYED CONTOURS AND IMAGERY SHOWN ARE FROM AN AERIAL FLIGHT FLOWN ON 04/23/2021 PROVIDED BY ROBINSON AERIAL.
- 5.) BATHYMETRIC DATA IS FROM PUBLIC SOURCES (NOAA).
- 6.) PROPERTY LINES SHOWN ON THIS MAP ARE TAX MAP GRADE AND NOT A RESULT OF A BOUNDARY SURVEY.
- 7.) HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD98.
- 8.) DRAWINGS ARE FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
- 9.) LOCATION OF ALIGNMENT, JOINT BAYS, AND TRANSITION VAULTS SUBJECT TO CHANGE DURING DETAILED DESIGN PHASE.





[illegible]



LEGEND - PROPOSED

- | | | | |
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LEGEND - EXISTING

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PLAN SCALE



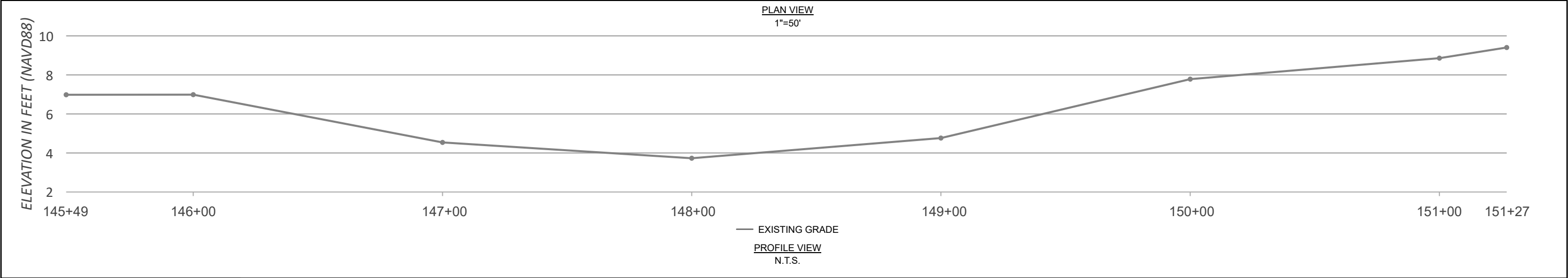
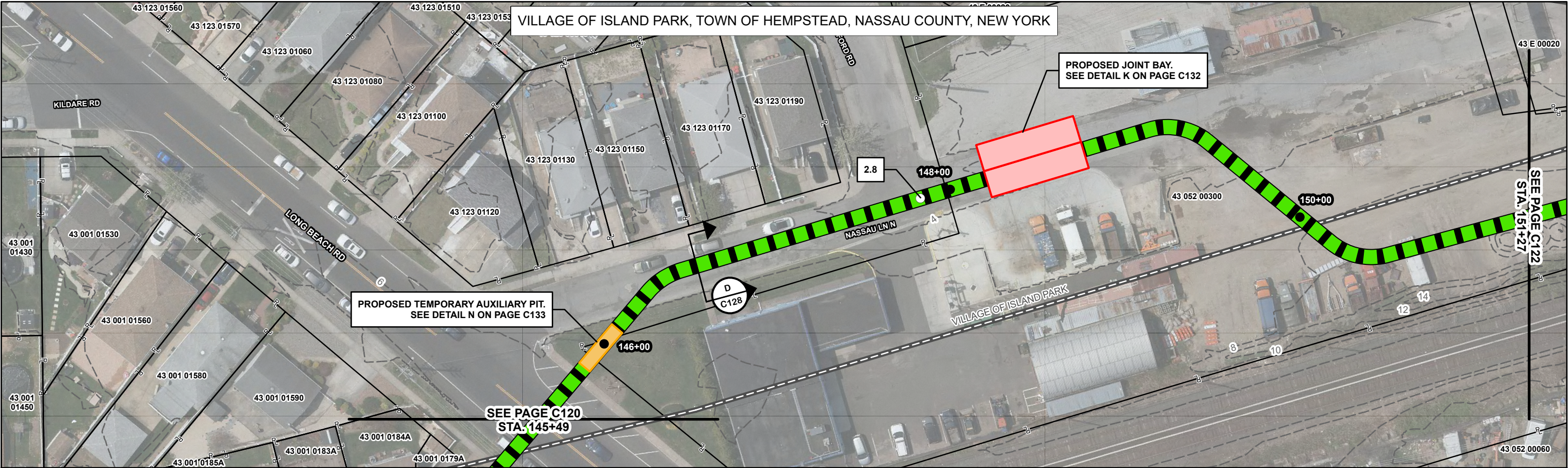
M
M
MOTT
MACDONALD

Mott MacDonald NY Inc.
111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019



Client: <div>  equinor </div>							D'gn'd			Eng Chk		
							Drawn			Coord.		
							Dwg Chk			App'd		
							_____ Date _____		Plan Scale 1" = 50'	Status PRE	Rev A	Security STD
	A	05/13/2022	SNP	ISSUED FOR ARTICLE VII APP.	KEK	MDN	Project Number 505100001		B/O	Total	Drawing Number C118	
	Rev	Date	Drawn	Description	Ch'k'd	App'd						

Title	EMPIRE OFFSHORE WIND LLC. EMPIRE WIND 2 PROJECT PLAN AND PROFILE NASSAU COUNTY, NEW YORK ISSUED FOR ARTICLE VII APPLICATION
-------	---



LEGEND - PROPOSED

- 200' STATION
- MILE POST
- 230 kV DUCT BANK CENTERLINE (3 CIRCUITS)
- 345 kV DUCT BANK CENTERLINE (3 CIRCUITS)
- 230 kV EXPORT CABLE (SINGLE CIRCUIT)
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- TEMPORARY AUXILIARY PIT
- SUBSTATION

LEGEND - EXISTING

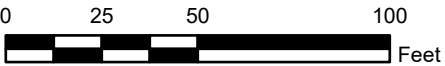
- 2' CONTOUR
- PUBLIC CONTOUR BOUNDARY
- PROPERTY LINE*
- JURISDICTIONAL BOUNDARY**

*ASSESSOR'S PARCEL NO. (APN) SHOWN WITHIN PROPERTY LINE
**SOURCE NY GIS CLEARINGHOUSE

NOTES

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PLAN SCALE



MOTT
MACDONALD

Mott MacDonald NY Inc.
111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019



Client:

A	05/13/2022	SNP	ISSUED FOR ARTICLE VII APP.	KEK	MDN	
Rev	Date	Drawn	Description	Ch'k'd	App'd	

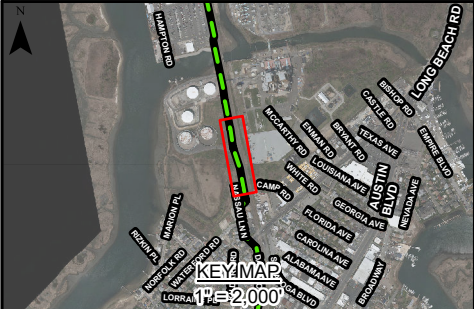
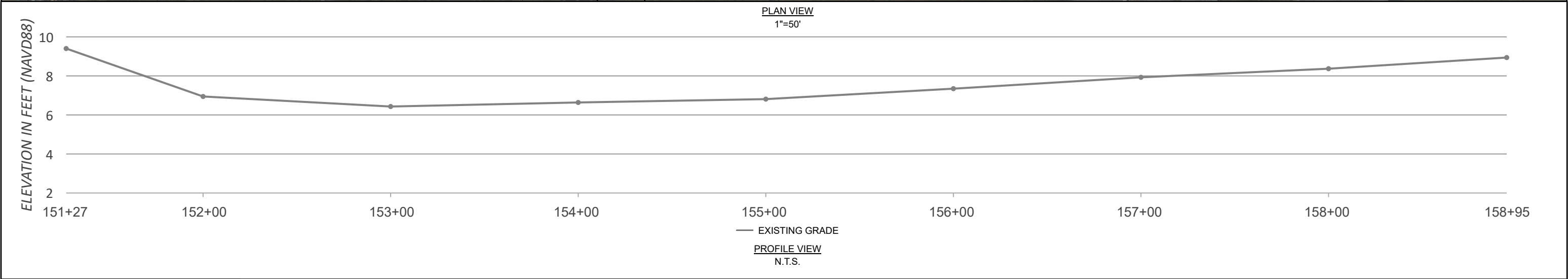
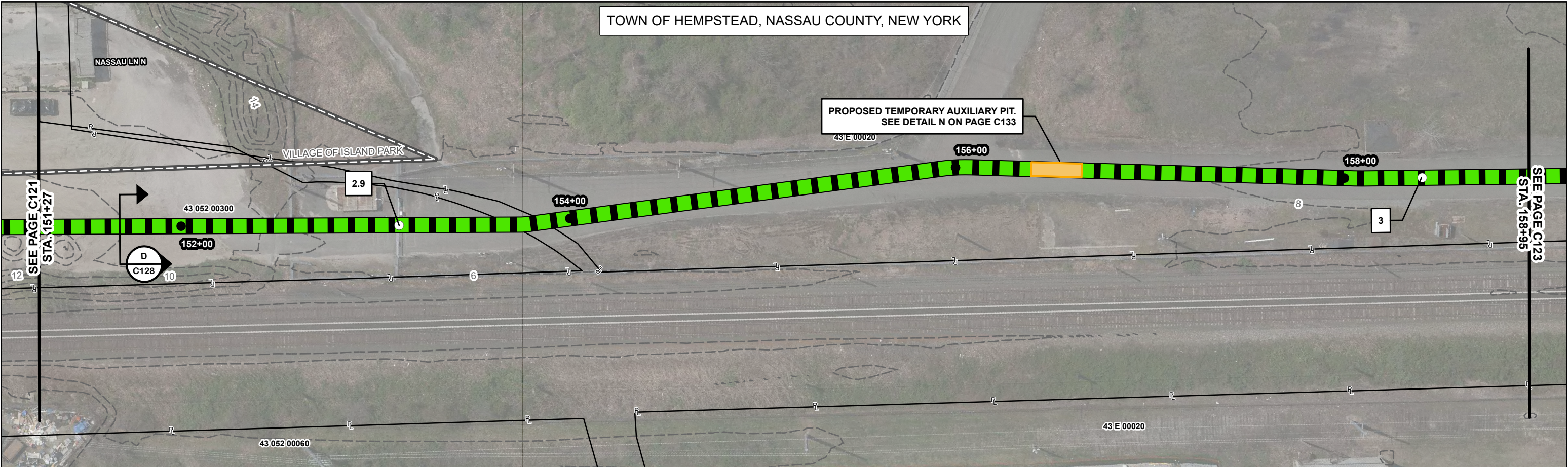
Project Number
505100001

B/O

Total

D'gn'd		Eng Chk	
Drawn		Coord.	
Dwg Chk		App'd	
Plan Scale 1" = 50'	Status PRE	Rev A	Security STD
Drawing Number C121			

EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
PLAN AND PROFILE
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION



LEGEND - PROPOSED

- 200' STATION
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- JOINT BAY
- TRANSITION VAULT
- TEMPORARY AUXILIARY PIT
- SUBSTATION

LEGEND - EXISTING

- 2' CONTOUR
- PUBLIC CONTOUR BOUNDARY
- PROPERTY LINE*
- JURISDICTIONAL BOUNDARY**

*ASSESSOR'S PARCEL NO. (APN) SHOWN WITHIN PROPERTY LINE

**SOURCE NY GIS CLEARINGHOUSE

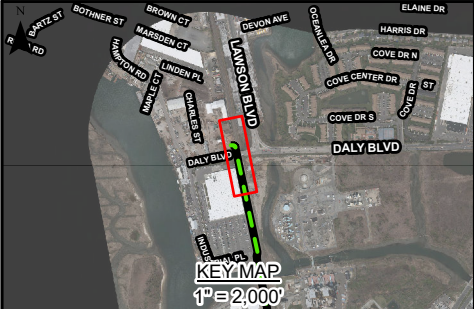
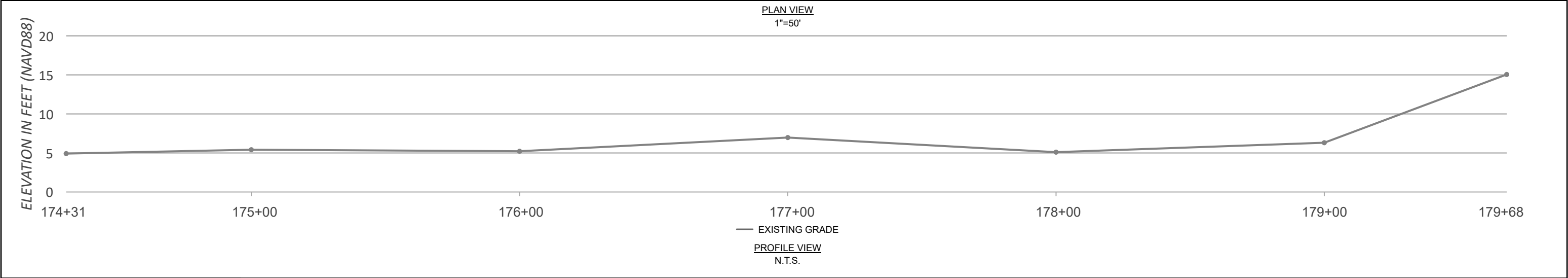
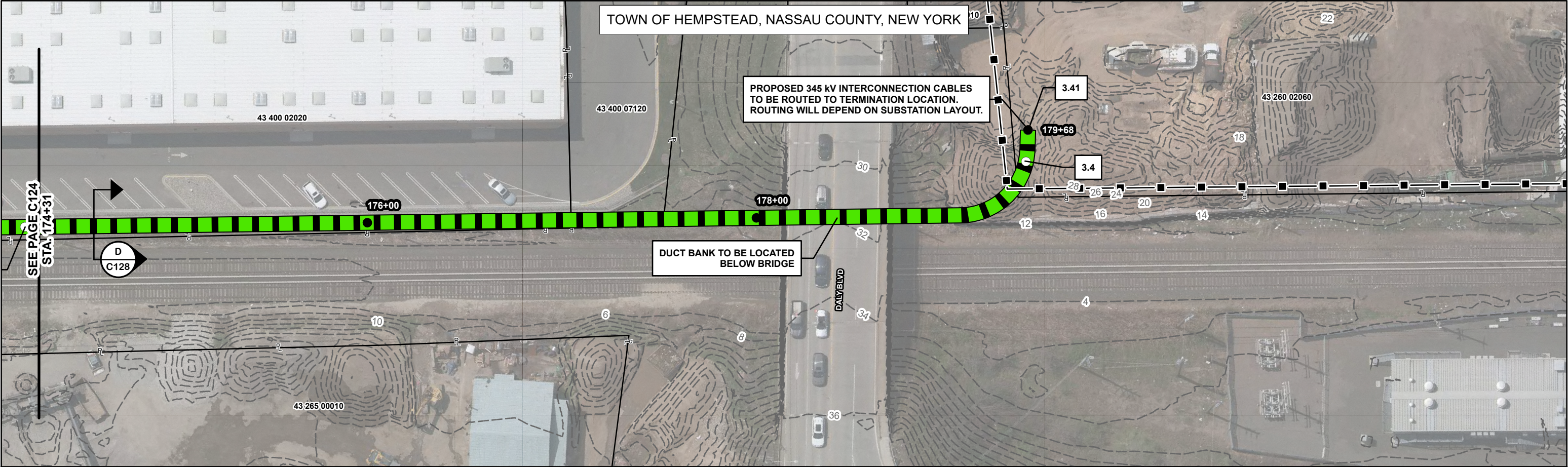
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PLAN SCALE

0 25 50 100 Feet

<div>MOTT MACDONALD</div> <div>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</div> <div><div>© Mott MacDonald This document is issued for the party which commissioned it and for specific purposes connected with the captioned project only. It should not be relied upon by any other party or used for any other purpose. We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties</div></div>	<div>Client:</div> <div><div><div></div><div></div><div></div><div></div><div></div></div><div><div>equinor</div></div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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LEGEND - PROPOSED

- 200' STATION
- MILE POST
- 230 kV DUCT BANK CENTERLINE (3 CIRCUITS)
- 345 kV DUCT BANK CENTERLINE (3 CIRCUITS)
- 230 kV EXPORT CABLE (SINGLE CIRCUIT)
- 345 kV EXPORT CABLE (SINGLE CIRCUIT)
- POI FENCE
- HORIZONTAL AUGER BORE (TRENCHLESS CROSSING)
- HORIZONTAL DIRECTIONAL DRILL (TRENCHLESS CROSSING)
- JOINT BAY
- TRANSITION VAULT
- TEMPORARY AUXILIARY PIT
- SUBSTATION

LEGEND - EXISTING

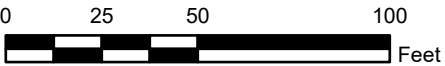
- 2' CONTOUR
- PUBLIC CONTOUR BOUNDARY
- PROPERTY LINE*
- JURISDICTIONAL BOUNDARY**

*ASSESSOR'S PARCEL NO. (APN) SHOWN WITHIN PROPERTY LINE
**SOURCE NY GIS CLEARINGHOUSE

NOTES

- EXISTING UTILITIES NOT SHOWN.
- DUCT BANK SHALL MAINTAIN MINIMUM DEPTH OF COVER OF 3 FT UNLESS OTHERWISE SHOWN ON DRAWINGS.
- DUCT BANK, JOINT BAY AND TRANSITION VAULT LOCATIONS ARE SUBJECT TO ADJUSTMENT DUE TO UNFORESEEN CONDITIONS.
- THE SURVEYED CONTOURS AND IMAGERY SHOWN ARE FROM AN AERIAL FLIGHT FLOWN ON 04/23/2021 PROVIDED BY ROBINSON AERIAL.
- BATHYMETRIC DATA IS FROM PUBLIC SOURCES (NOAA).
- PROPERTY LINES SHOWN ON THIS MAP ARE TAX MAP GRADE AND NOT A RESULT OF A BOUNDARY SURVEY.
- HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD1988.
- DRAWINGS ARE FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
- LOCATION OF ALIGNMENT, JOINT BAYS, AND TRANSITION VAULTS SUBJECT TO CHANGE DURING DETAILED DESIGN PHASE.

PLAN SCALE



Mott MacDonald NY Inc.
111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019



Client:

A	05/13/2022	SNP	ISSUED FOR ARTICLE VII APP.	KEK	MDN
Rev	Date	Drawn	Description	Ch'k'd	App'd

Project Number
505100001

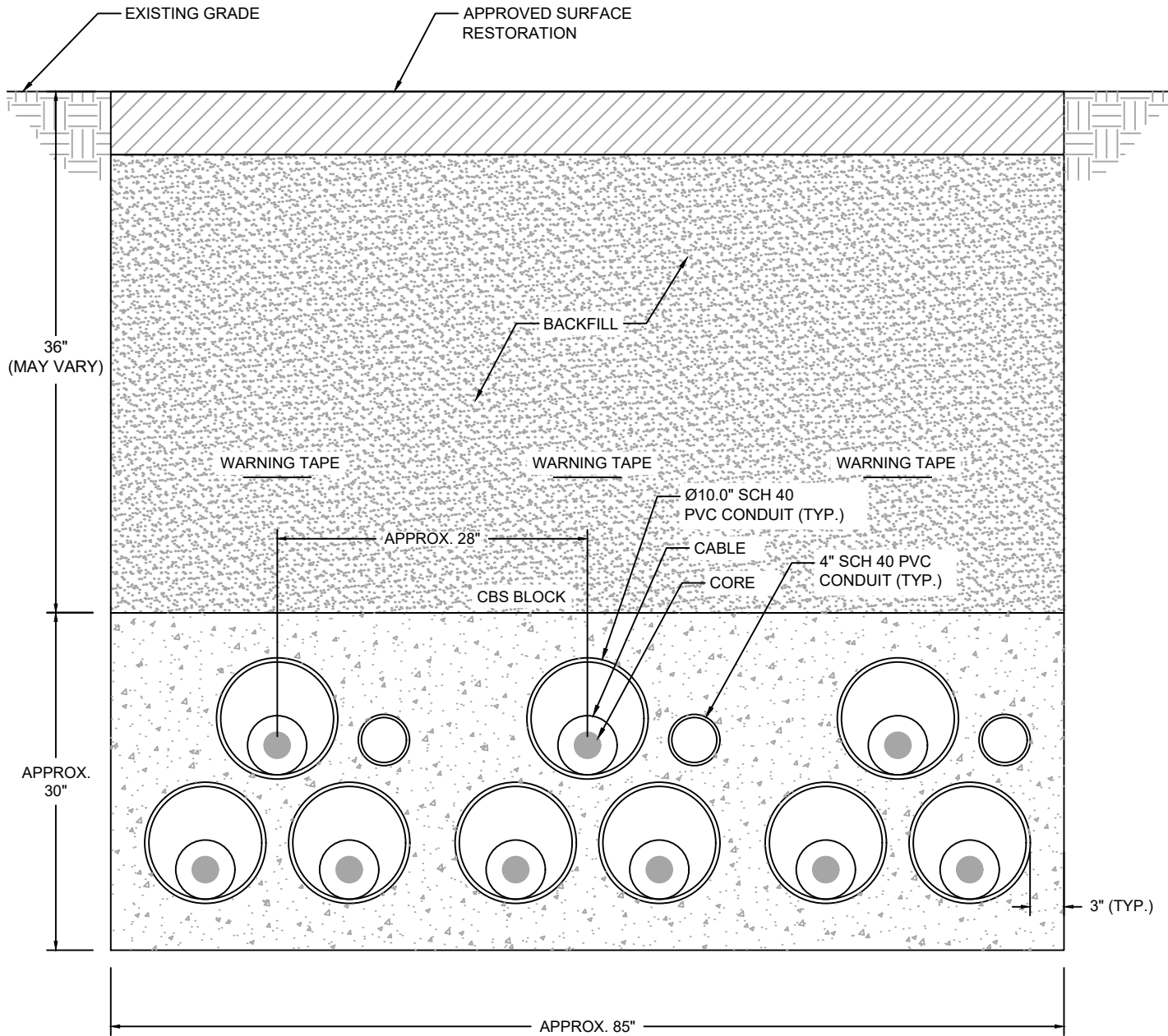
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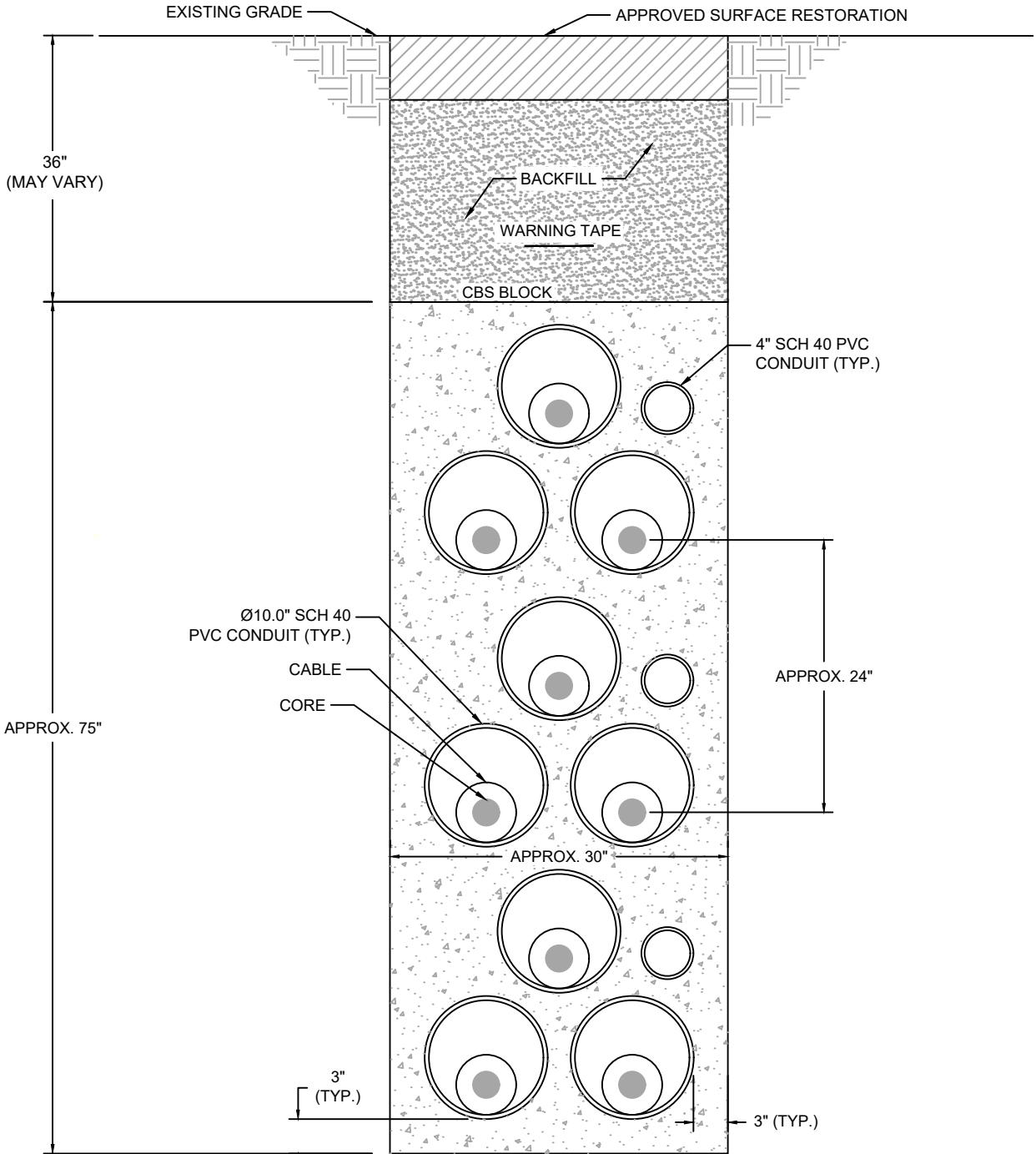
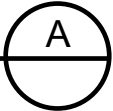
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Drawn		Coord.	
Dwg Chk		App'd	
Plan Scale 1" = 50'	Status PRE	Rev A	Security STD
Drawing Number C125			

Title

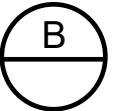
EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
PLAN AND PROFILE
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION



DUCT BANK SECTION - 3 CIRCUITS (230kV)
TREFOIL CONFIGURATION - HORIZONTAL



DUCT BANK SECTION - 3 CIRCUITS (230kV)
TREFOIL CONFIGURATION - VERTICAL



- NOTES (DETAILS A AND B)**
1. DUCT BANK DETAILED ABOVE IS FOR THE FULL INSTALLATION OF PROPOSED CABLES (3 CIRCUITS). DUCT BANK MAY BE CONFIGURED IN SMALLER SECTIONS AS SHOWN IN DETAILS C1 AND C2 DEPENDING ON SITE-SPECIFIC SPACE CONSTRAINTS.
 2. QUANTITY AND ARRANGEMENT OF 4" SCH 40 PVC CONDUITS MAY VARY DURING FINAL DESIGN.
 3. DUCT BANK WILL BE INSTALLED IN ACCORDANCE WITH OSHA TRENCHING AND EXCAVATION SAFETY REQUIREMENTS.
 4. DUCT BANK DEPTH OF COVER MAY VARY BASED ON SITE-SPECIFIC REQUIREMENTS.

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Mott MacDonald NY Inc.
111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019

Client:



A	05/13/2022	SNP	ISSUED FOR ARTICLE VII APP.	KEK	MDN
Rev	Date	Drawn	Description	Ch'k'd	App'd

Project Number
505100001


B/O

Total



D'gn'd		Eng Chk	
Drawn		Coord.	
Dwg Chk		App'd	
Plan Scale 1" = 50'	Status PRE	Rev A	Security STD
Drawing Number C126			

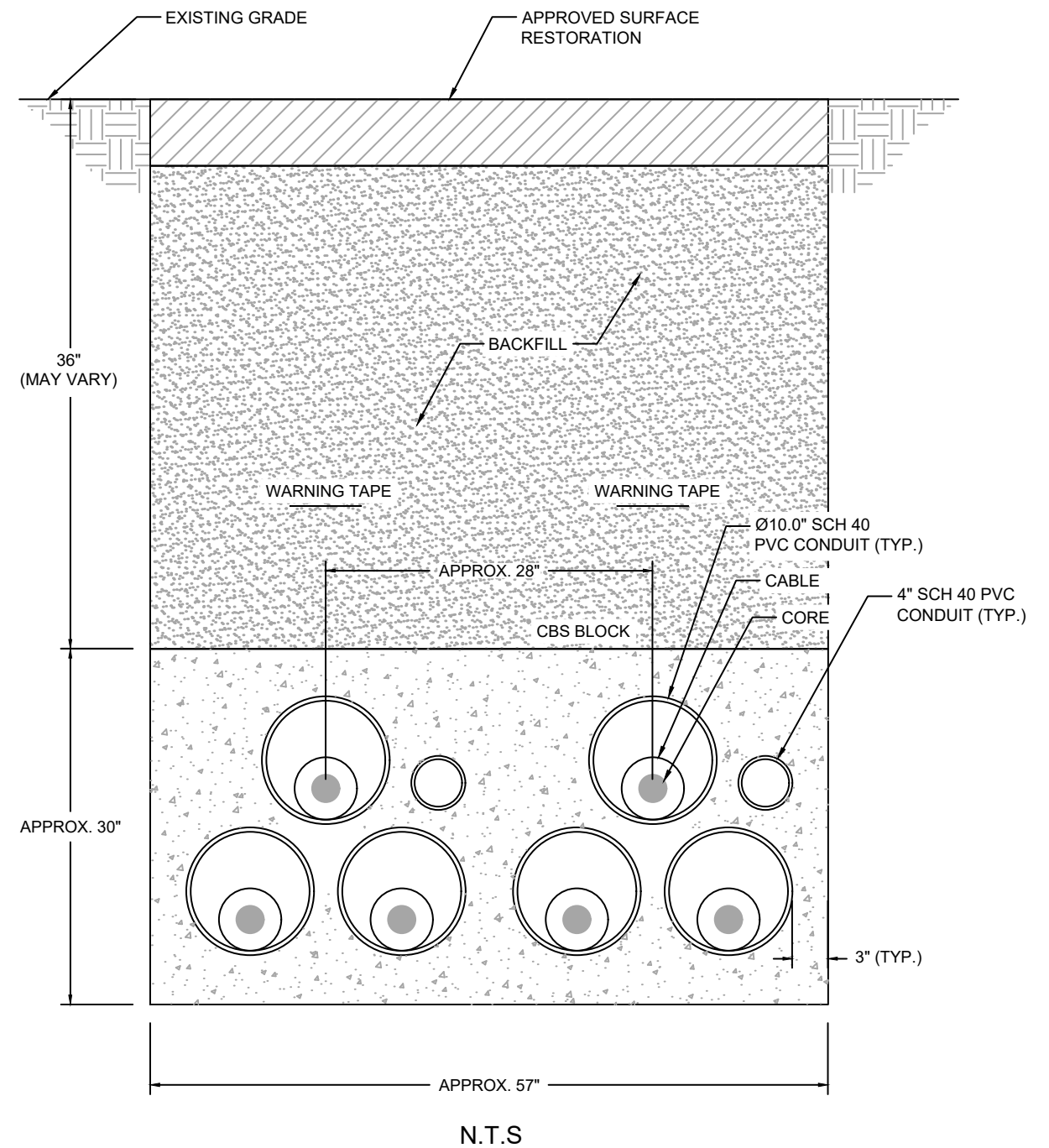
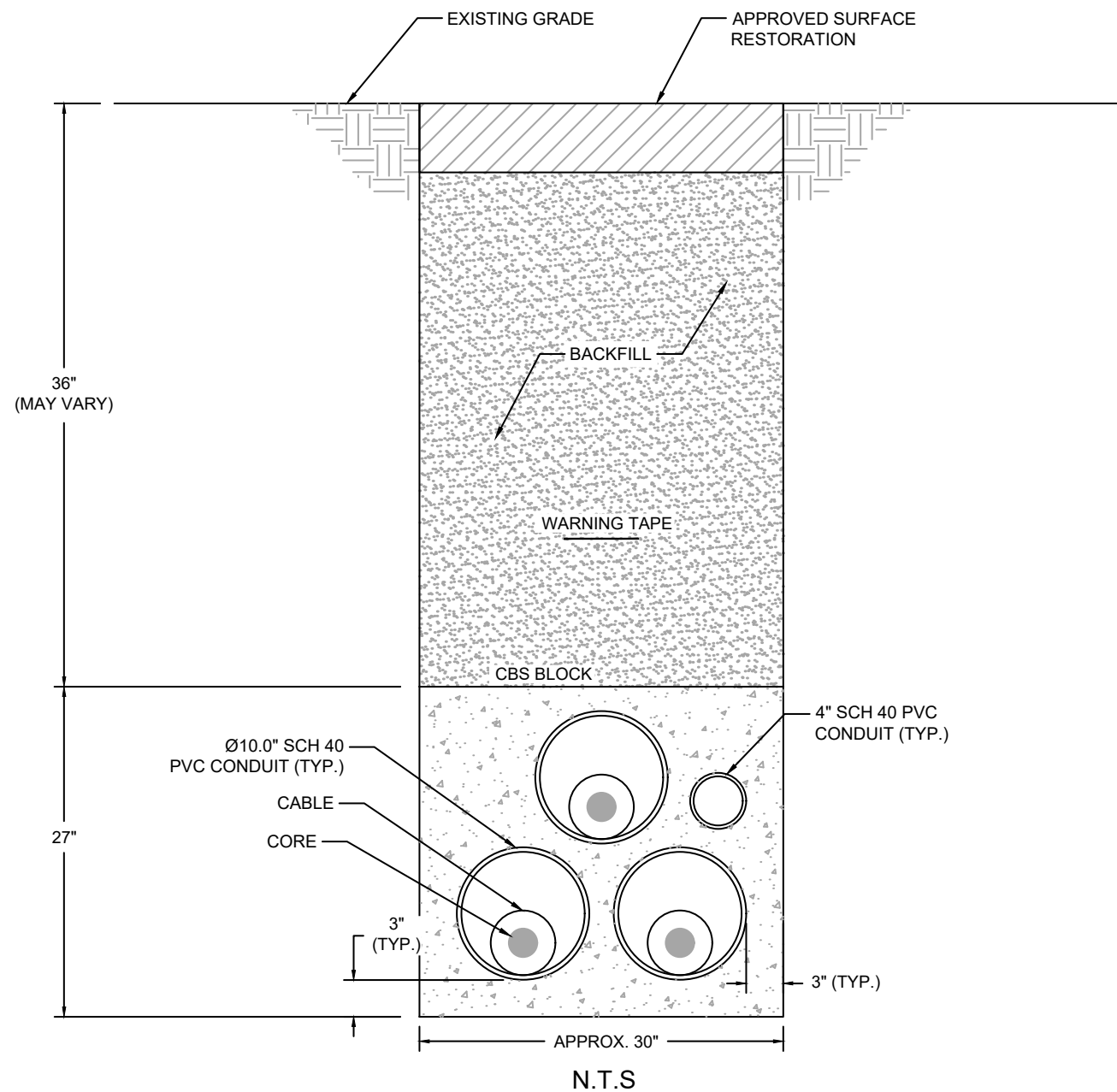
Title

EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
CONSTRUCTION DETAILS
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION


$$\frac{C}{2}$$

1. QUANTITY AND ARRANGEMENT OF 4" SCH 40 PVC CONDUITS MAY VARY DURING FINAL DESIGN.
2. DUCT BANK WILL BE INSTALLED IN ACCORDANCE WITH OSHA TRENCHING AND EXCAVATION SAFETY REQUIREMENTS.
3. DUCT BANK DEPTH OF COVER MAY VARY BASED ON SITE-SPECIFIC REQUIREMENTS.

 <p>MOTT MACDONALD</p> <p>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</p> <div style="text-align: center;">  equinor </div> <p><small>© Mott MacDonald This document is issued for the party which commissioned it and for specific purposes connected with the captioned project only. It should not be relied upon by any other party or used for any other purpose. We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties.</small></p>	Client:											D'gn'd					Eng Chk			Title
												Drawn					Coord.			EMPIRE OFFSHORE WIND LLC. EMPIRE WIND 2 PROJECT CONSTRUCTION DETAILS NASSAU COUNTY, NEW YORK ISSUED FOR ARTICLE VII APPLICATION
												Dwg Chk					App'd			
												Plan Scale		Status	Rev		Security			
	A	05/13/2022	SNP	ISSUED FOR ARTICLE VII APP.	KEK	MDN				1" = 50'		PRE	A		STD					
	Rev	Date	Drawn	Description	Ch'k'd	App'd	Project Number			B/O	Total	Drawing Number								
						505100001					C127									



NOTES (DETAIL F)

1. QUANTITY AND ARRANGEMENT OF 4" SCH 40 PVC CONDUITS MAY VARY DURING FINAL DESIGN.
2. DUCT BANK WILL BE INSTALLED IN ACCORDANCE WITH OSHA TRENCHING AND EXCAVATION SAFETY REQUIREMENTS.
3. DUCT BANK DEPTH OF COVER MAY VARY BASED ON SITE-SPECIFIC REQUIREMENTS.



Mott MacDonald NY Inc.
111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019



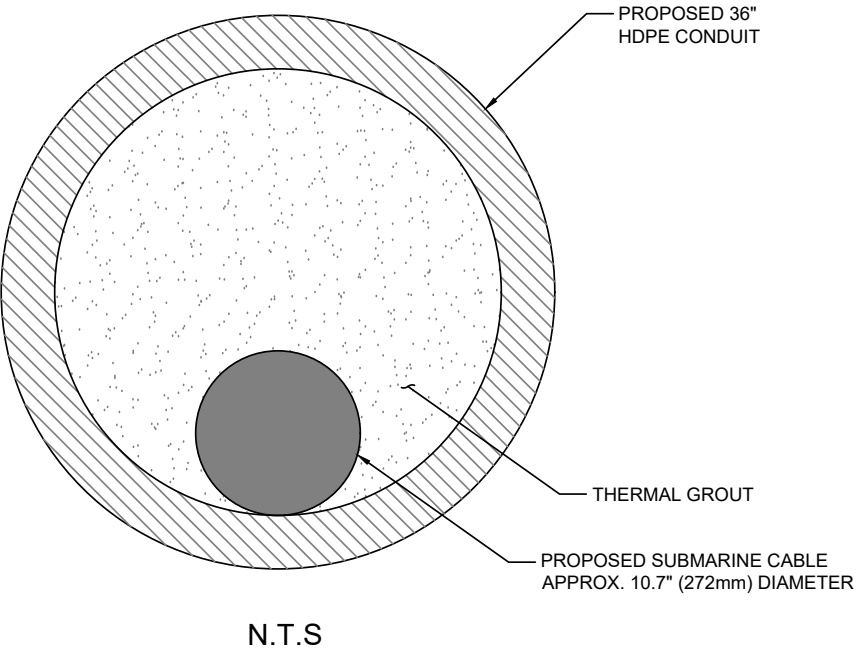
A	05/13/2022	SNP	ISSUED FOR ARTICLE VII APP.	KEK	MDN
Rev	Date	Drawn	Description	Ch'kd	App'd

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Project Number	B/O	Total
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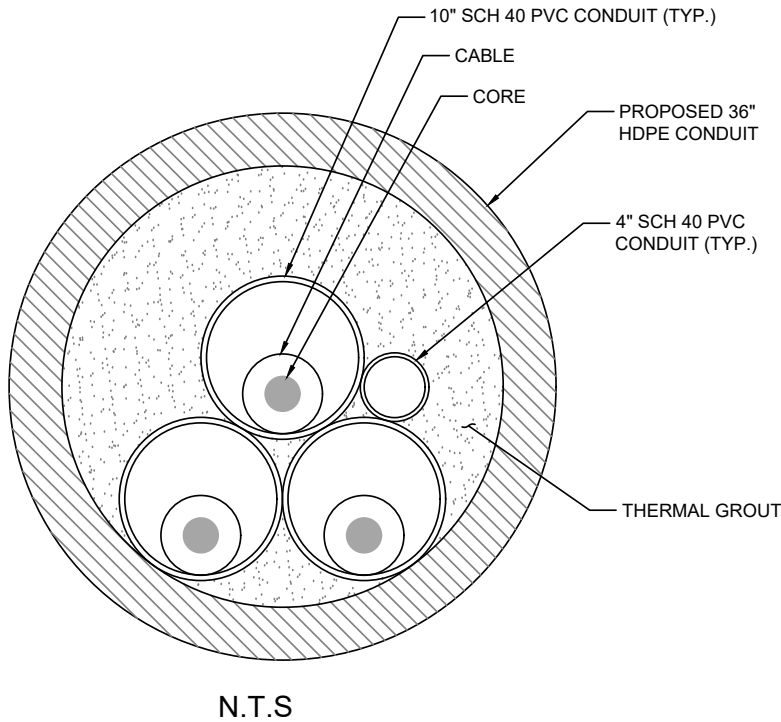
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Drawn			Coord.		
Dwg Chk			App'd		
Plan Scale 1" = 50'	Status PRE		Rev A		Security STD
Drawing Number C129					

Title
EMPIRE OFFSHORE WIND LLC. EMPIRE WIND 2 PROJECT CONSTRUCTION DETAILS NASSAU COUNTY, NEW YORK ISSUED FOR ARTICLE VII APPLICATION

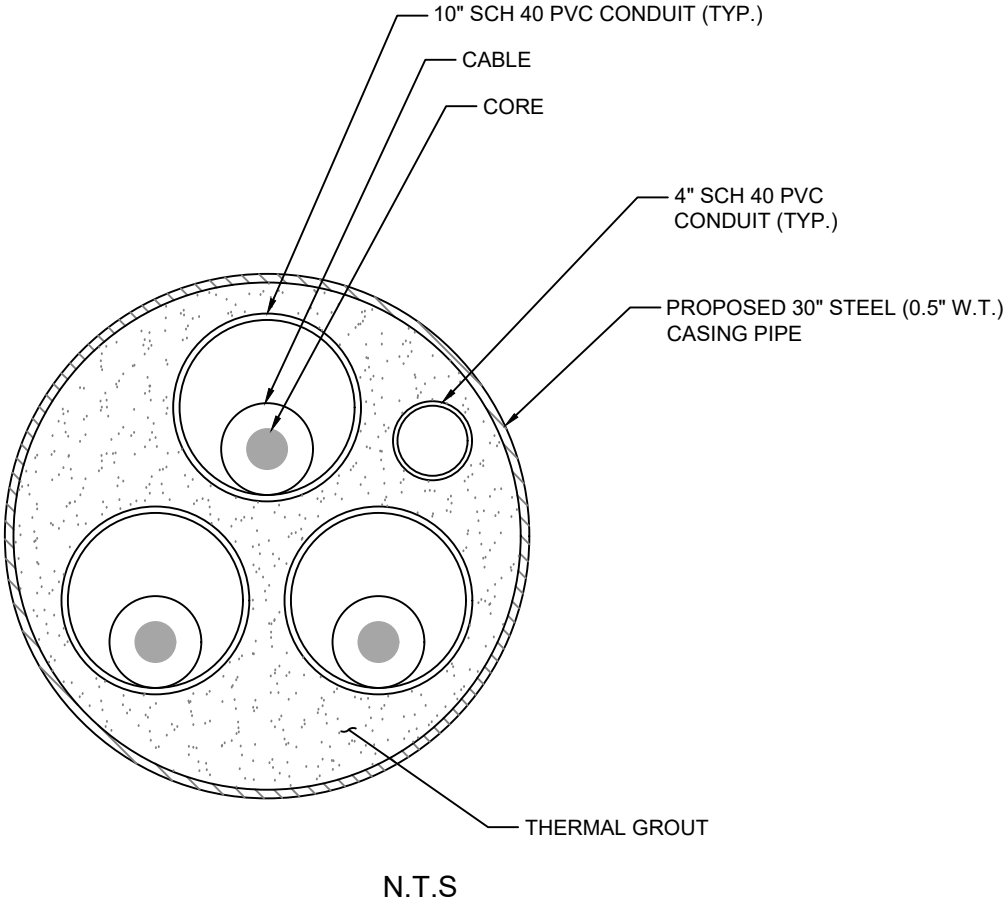
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HDD SECTION FOR SUBMARINE CABLE
1 CIRCUIT



HDD SECTION FOR ONSHORE EXPORT CABLES
1 CIRCUIT



AUGER BORE SECTION FOR
INTERCONNECTION CABLES - 1 CIRCUIT

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111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019

Client:



A	05/13/2022	SNP	ISSUED FOR ARTICLE VII APP.	KEK	MDN
Rev	Date	Drawn	Description	Ch'k'd	App'd

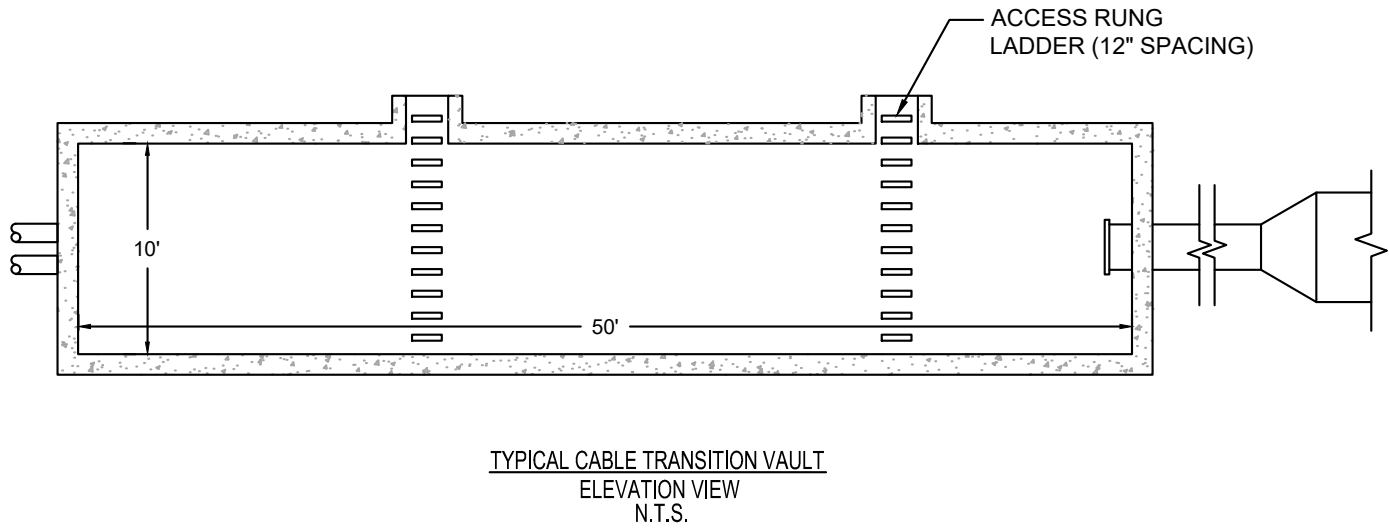
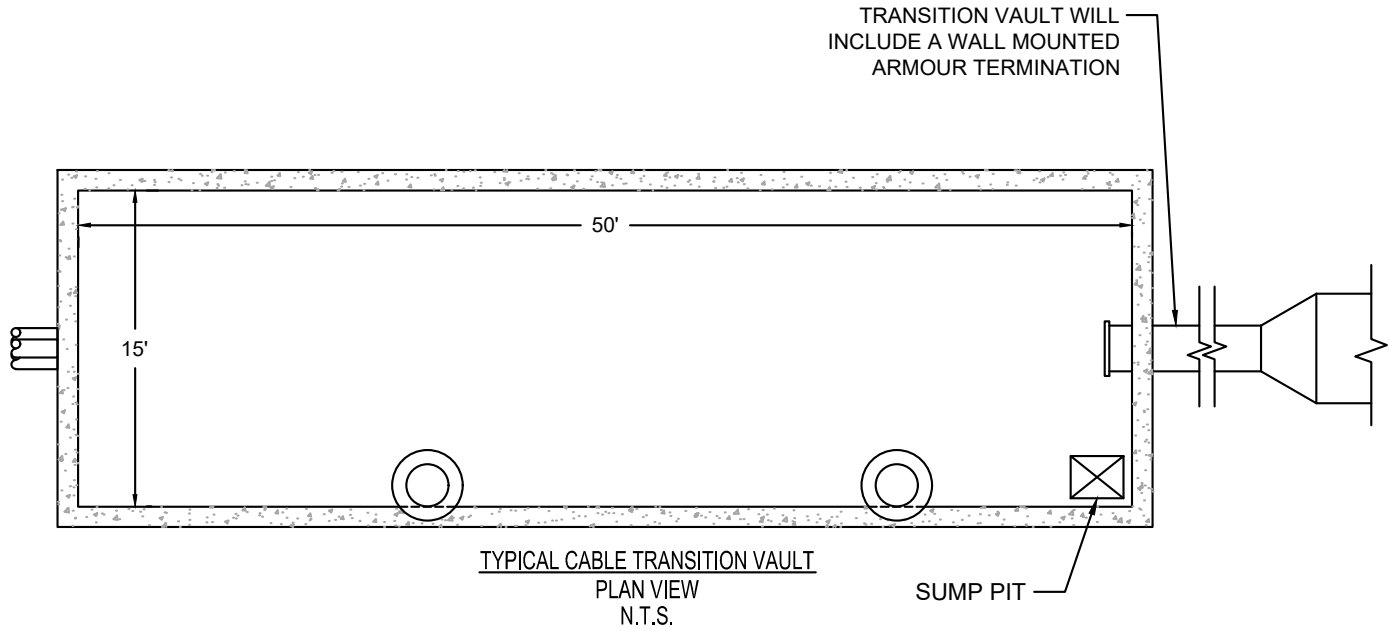
Project Number
505100001

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Total

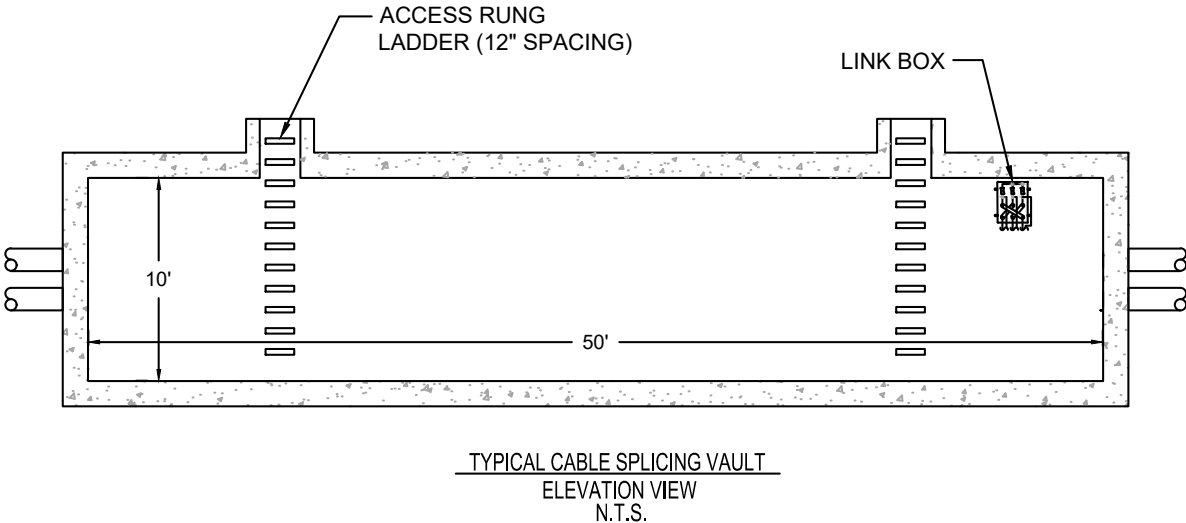
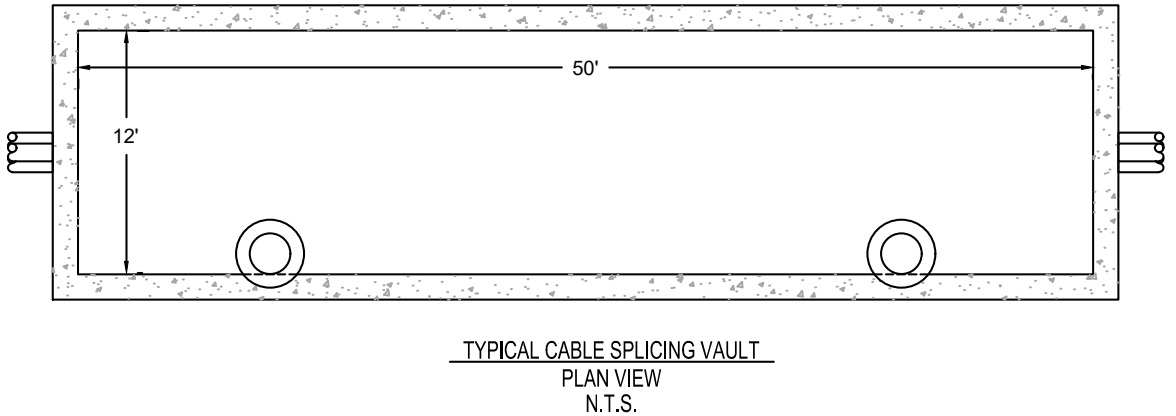
D'gn'd		Eng Chk	
Drawn		Coord.	
Dwg Chk		App'd	
Plan Scale 1" = 50'	Status PRE	Rev A	Security STD
Drawing Number C130			

Title
EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
CONSTRUCTION DETAILS
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION



CABLE TRANSITION VAULT - 1 CIRCUIT

I




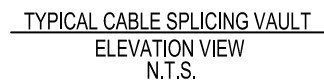
JOINT BAY / SPLICE VAULT - 1 CIRCUIT

J

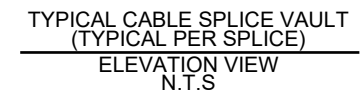
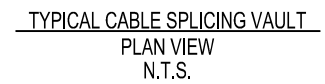
NOTES (DETAIL I)
1. TRANSITION VAULT DIMENSIONS ARE PRELIMINARY AND MAY BE REDUCED DURING FINAL DESIGN.
2. CABLE ARRANGEMENT INSIDE OF TRANSITION VAULTS IS NOT SHOWN AND WILL BE DETAILED DURING FINAL DESIGN.
3. TRANSITION VAULTS WILL BE DESIGNED WITH A REMOVABLE TOP SLAB IN ORDER TO SUPPORT CABLE PULL-IN AND JOINTING OPERATIONS.

NOTES (DETAIL J)
1. ARRANGEMENT OF JOINT BAYS DETAILED ABOVE SHOWS A PARALLEL INSTALLATION. ACTUAL ARRANGEMENT MAY VARY DURING FINAL DESIGN AND JOINT BAYS MAY ALTERNATIVELY BE SITED IN SERIES.
2. JOINT BAY DIMENSIONS ARE PRELIMINARY AND MAY BE REDUCED DURING FINAL DESIGN.
3. CABLE ARRANGEMENT INSIDE OF JOINT BAYS IS NOT SHOWN AND WILL BE DETAILED DURING FINAL DESIGN.
4. JOINT BAYS WILL BE DESIGNED WITH A REMOVABLE TOP SLAB IN ORDER TO SUPPORT CABLE PULL-IN AND JOINTING OPERATIONS.

<div><div>M</div><div>M</div><div>MOTT MACDONALD</div></div> <div>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</div> <div></div> <div><small>© Mott MacDonald This document is issued for the party which commissioned it and for specific purposes connected with the captioned project only. It should not be relied upon by any other party or used for any other purpose. We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties</small></div>	<div>Client:</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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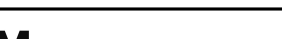

JOINT BAY / SPLICE VAULT - 3 CIRCUITS


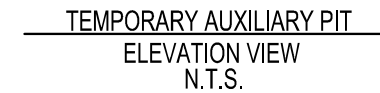
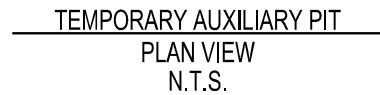
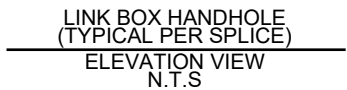


SPLICE VAULT - 1 CIRCUIT BURIED ALTERNATIVE

NOTES (SEE DETAIL 917-01)

1. ARRANGEMENT OF JOINT BAYS DETAILED ABOVE SHOWS A PARALLEL INSTALLATION. ACTUAL ARRANGEMENT MAY VARY DURING FINAL DESIGN AND JOINT BAYS MAY ALTERNATIVELY BE SITED IN SERIES.
2. JOINT BAY DIMENSIONS ARE PRELIMINARY AND MAY BE REDUCED DURING FINAL DESIGN.
3. CABLE ARRANGEMENT INSIDE OF JOINT BAYS IS NOT SHOWN AND WILL BE DETAILED DURING FINAL DESIGN.
4. JOINT BAYS WILL BE DESIGNED WITH A REMOVABLE TOP SLAB IN ORDER TO SUPPORT CABLE PULL-IN AND JOINTING OPERATIONS.

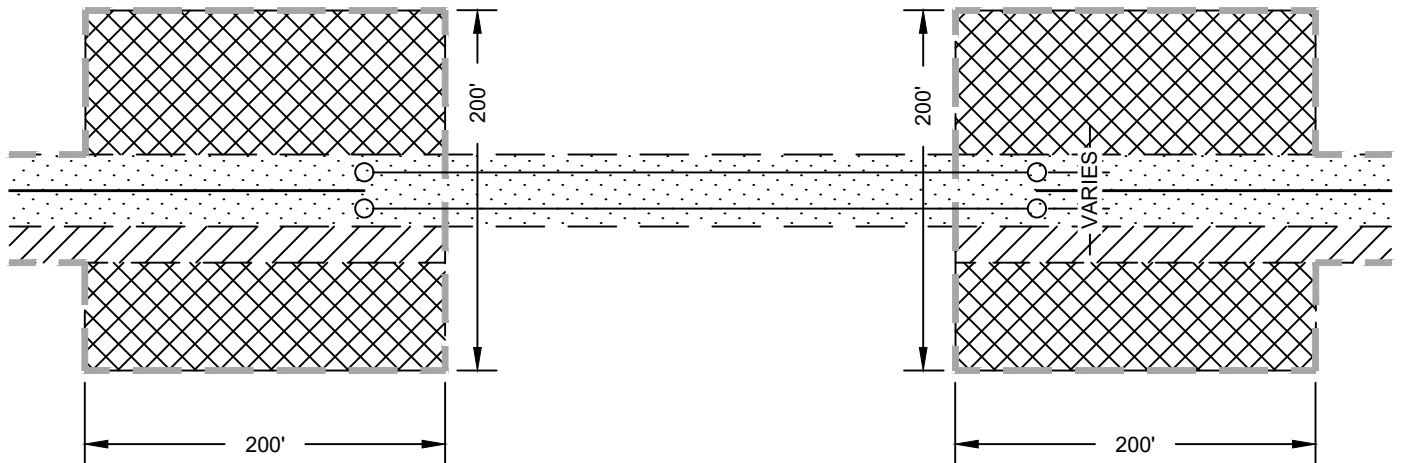
 <p>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</p>											D'gn'd			Eng Chk			Title EMPIRE OFFSHORE WIND LLC. EMPIRE WIND 2 PROJECT CONSTRUCTION DETAILS NASSAU COUNTY, NEW YORK ISSUED FOR ARTICLE VII APPLICATION	
												Drawn			Coord.			
												Dwg Chk			App'd			
												Plan Scale 1" = 50'	Status PRE	Rev A	Security STD			
		A	05/13/2022	SNP	ISSUED FOR ARTICLE VII APP.	KEK	MDN	_____ Date _____			Project Number 505100001		B/O	Total	Drawing Number C132			
		Rev	Date	Drawn	Description	Ch'k'd	App'd											



1. TEMPORARY AUXILIARY PIT WILL BE USED FOR CABLE PULL-IN AND WILL REQUIRE AN EXCAVATION APPROXIMATELY 12' BY 26' TO A DEPTH APPROXIMATELY 2' BELOW THE CABLE. THE FOLLOWING AREA WILL BE BACKFILLED WITH SUITABLE FILL AND RESTORED TO EXISTING CONDITIONS.
2. CABLE ARRANGEMENT INSIDE OF AUXILIARY PITS IS NOT SHOWN AND WILL BE DETAILED DURING FINAL DESIGN.
3. ACTUAL LOCATION OF AUXILIARY PITS MAY VARY DURING FINAL DESIGN AND IS A PROVISION THAT MAY OR MAY NOT BE REQUIRED DEPENDING ON FINAL JOINT BAY SITING AND SPACING.

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C:\USERS\WAT73657\APPDATA\LOCAL\PROJECT\WIS\WORKDIR\MOTT-USE-PW-07D0557654



PLAN VIEW
N.T.S.

LEGEND

	PROPOSED ELECTRICAL LINE
	LIMIT OF DISTUBANCE
	TEMPORARY WORKSPACE
	ADDITIONAL TEMPORARY WORKSPACE
	PROPOSED PERMANENT EASEMENT

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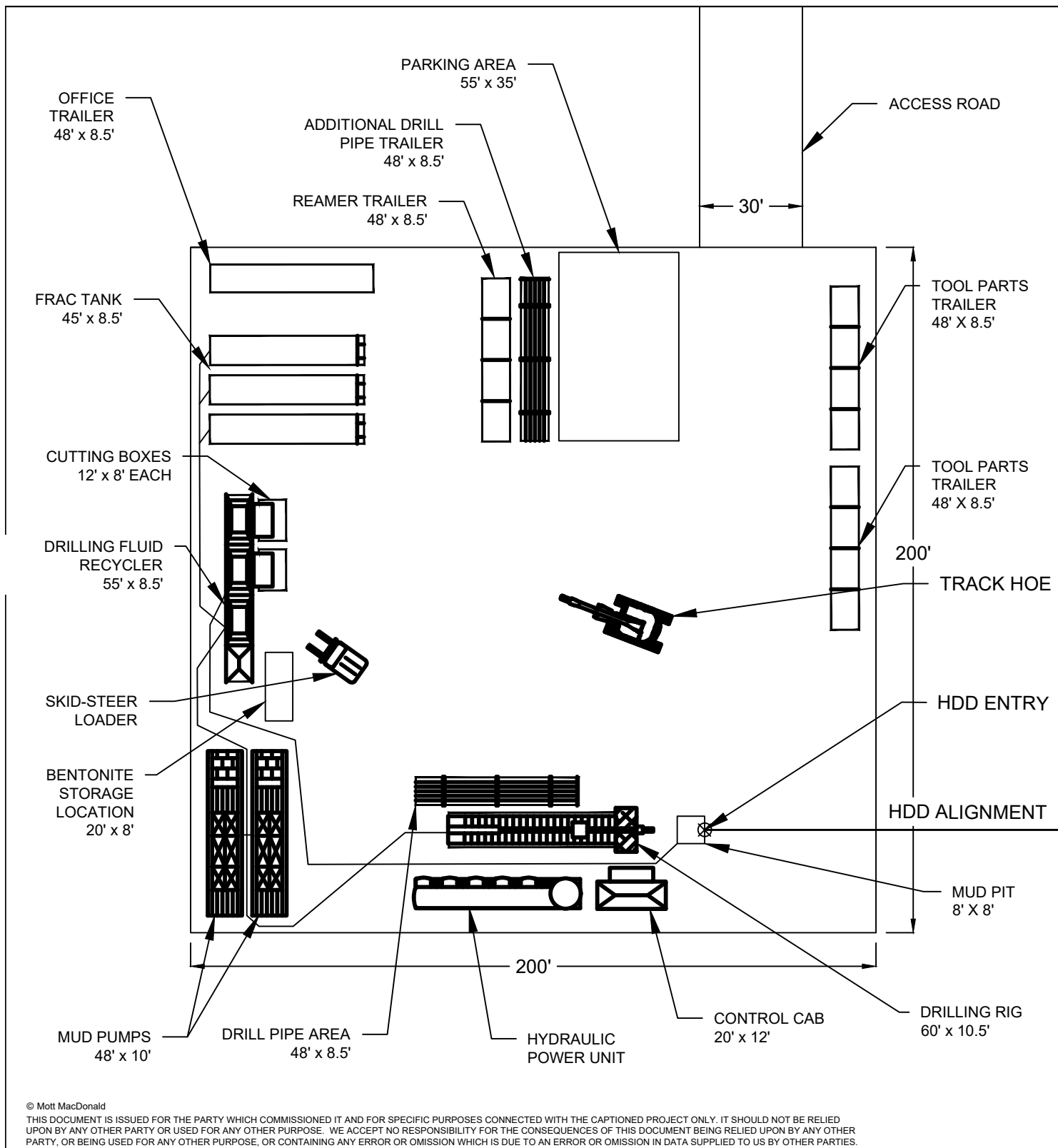
Title

EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
TYPICAL HDD WORKSPACE SKETCH
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION



Mott MacDonald NY Inc.
111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019

Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	Status	Rev
01/28/2022	DOW	KEK	MDN	NTS	TYPICAL HDD WORKSPACE SKETCH	PRE	A



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Title

EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
TYPICAL HDD LAYOUT (LARGE RIG
SETUP 200'x200' WORKSPACE
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION

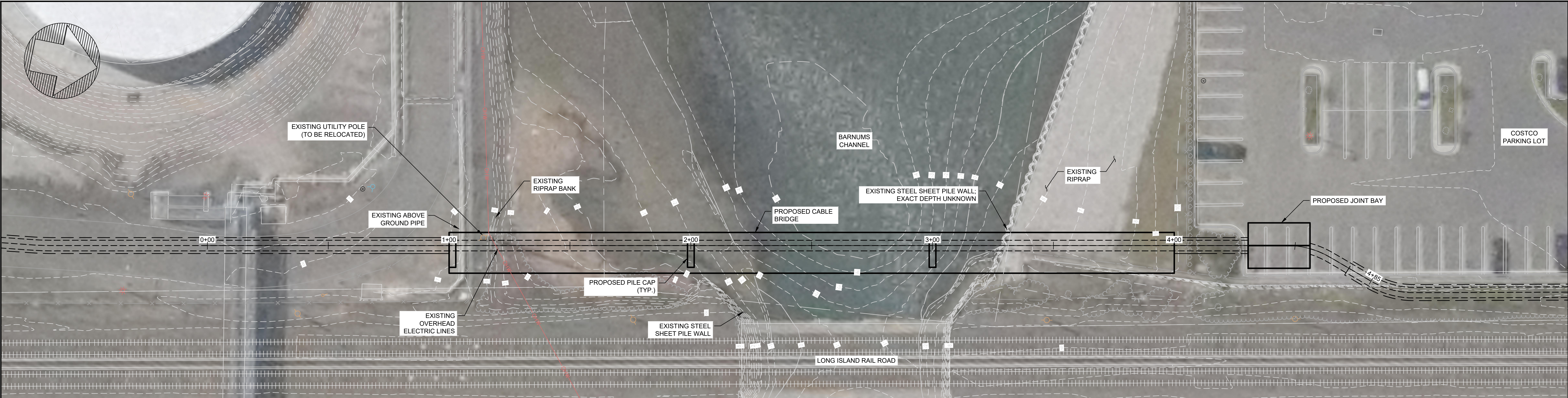
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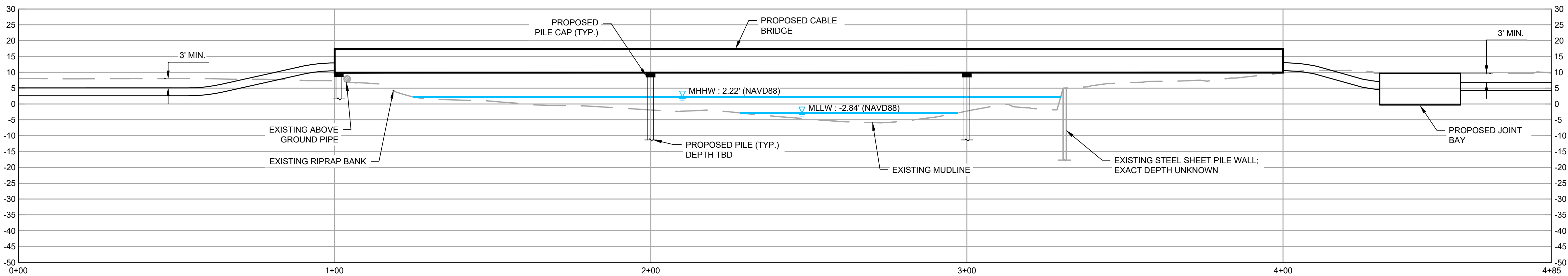
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111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019

Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	Status	Rev
01/28/2022	DOW	KEK	MDN	1"=40'	TYPICAL HDD LAYOUT (LARGE RIG SETUP)	PRE	A



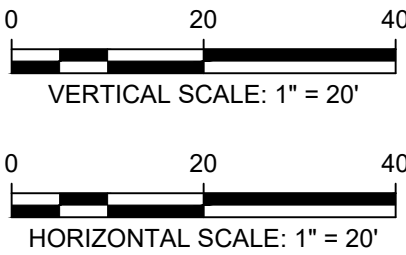
CABLE BRIDGE CROSSING - BARNUMS CHANNEL
PLAN VIEW
SCALE: 1" = 20'



CABLE BRIDGE CROSSING - BARNUMS CHANNEL
PROFILE VIEW
SCALE: 1" = 20'

- NOTES:
1. LOCATION AND ALIGNMENT OF ALL UTILITIES ARE TO BE VERIFIED FOLLOWING SITE INVESTIGATION.
 2. PRELIMINARY CABLE ALIGNMENTS SHOWN MAY BE ADJUSTED AS THE DESIGN PROGRESSES.
 3. EXISTING FEATURES AND AERIAL SHOWN ON PLANS PROVIDED BY ROBINSON AERIAL ON 09/22/2021.
 4. EXISTING CONTOURS (ONSHORE) PROVIDED BY ROBINSON AERIAL ON 09/22/2021.
 5. ENVIRONMENTAL SURVEY HAS NOT BEEN CONDUCTED ON AREA SHOWN ON THESE PLANS.
 6. BATHYMETRIC DATA WITHIN BARNUMS CHANNEL IS FROM PUBLIC SOURCES (NOAA). ADDITIONAL SURVEY WILL BE REQUIRED TO VERIFY EXACT LOCATION OF MUDLINE.
 7. HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD1988.
 8. CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.84' = MLLW.
 9. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.

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Mott MacDonald NY Inc.
111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019

www.mottmacamericas.com

Client

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A	02/07/2022	DOW	ISSUED FOR ARTICLE IIV APPLICATION	KEK	MDN		
Rev	Date	Drawn	Description	Ch'k'd	App'd		

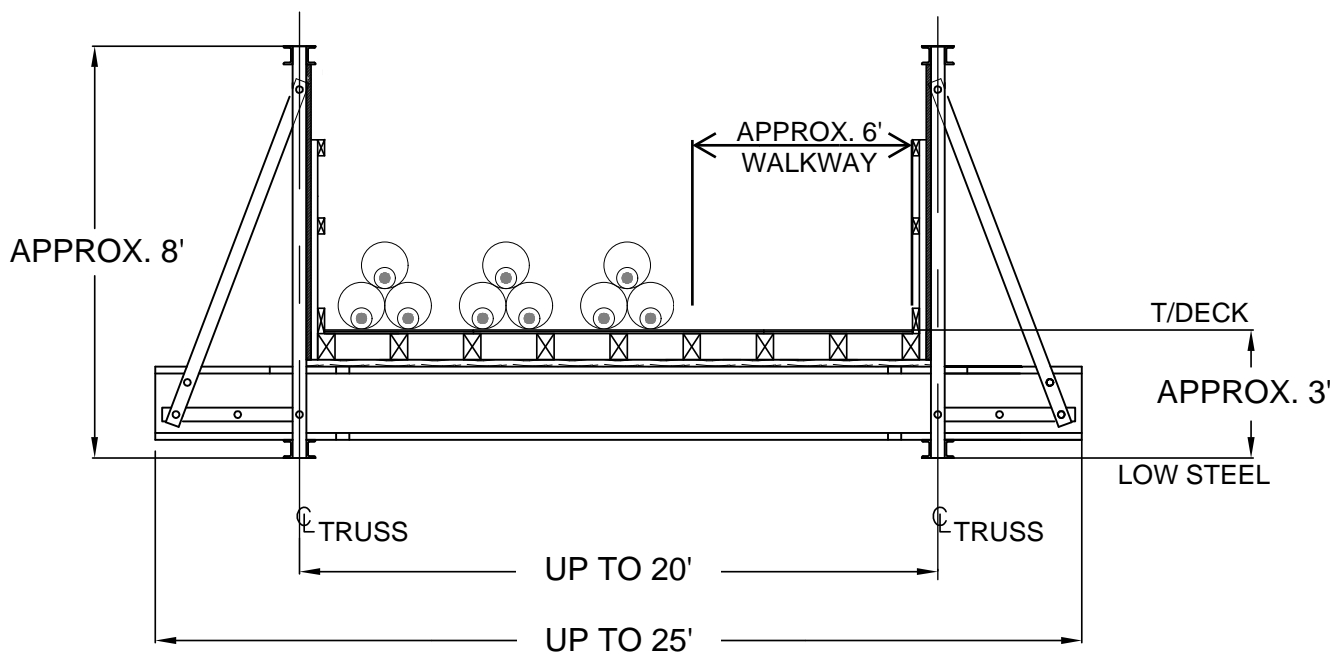
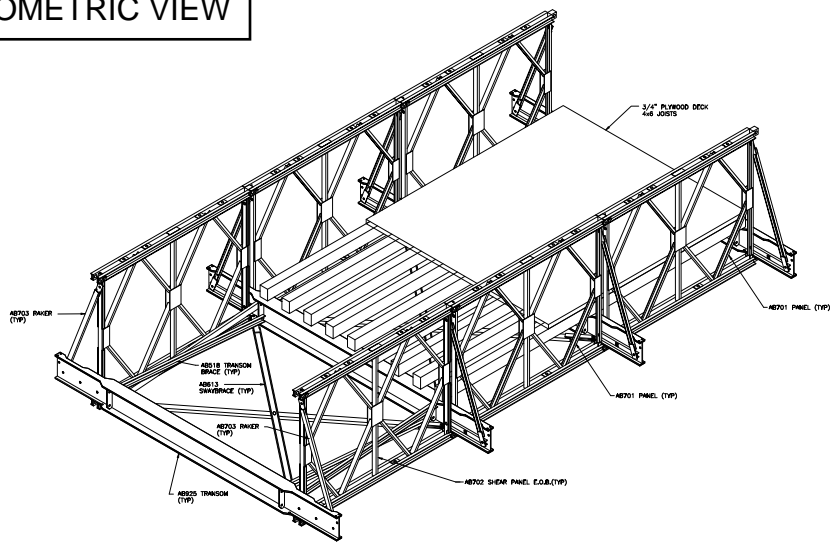
Date _____		
Project Number	B/O	Total
505100001		

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Drawn	DOW		Coordination	KEK	
Dwg check	KEK		Approved	MDN	
Scale at ANSI D	Status	Rev	Security		
As Shown	PRE	A	STD		
Drawing Number CABLE BRIDGE CROSSING					

EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2
CABLE BRIDGE CROSSING (BARNUMS CHANNEL)
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION

C:\USERS\WAT73657\APPDATA\LOCAL\PROJECTWISE\WORKDIR\MOTT-USE-PW-07\00557654\IEW2_CROSSING_AERIAL_BARNUMCHANNEL.DWG
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ISOMETRIC VIEW



ACROW BRIDGE SUPERSTRUCTURE
TYPICAL SECTION
N.T.S.

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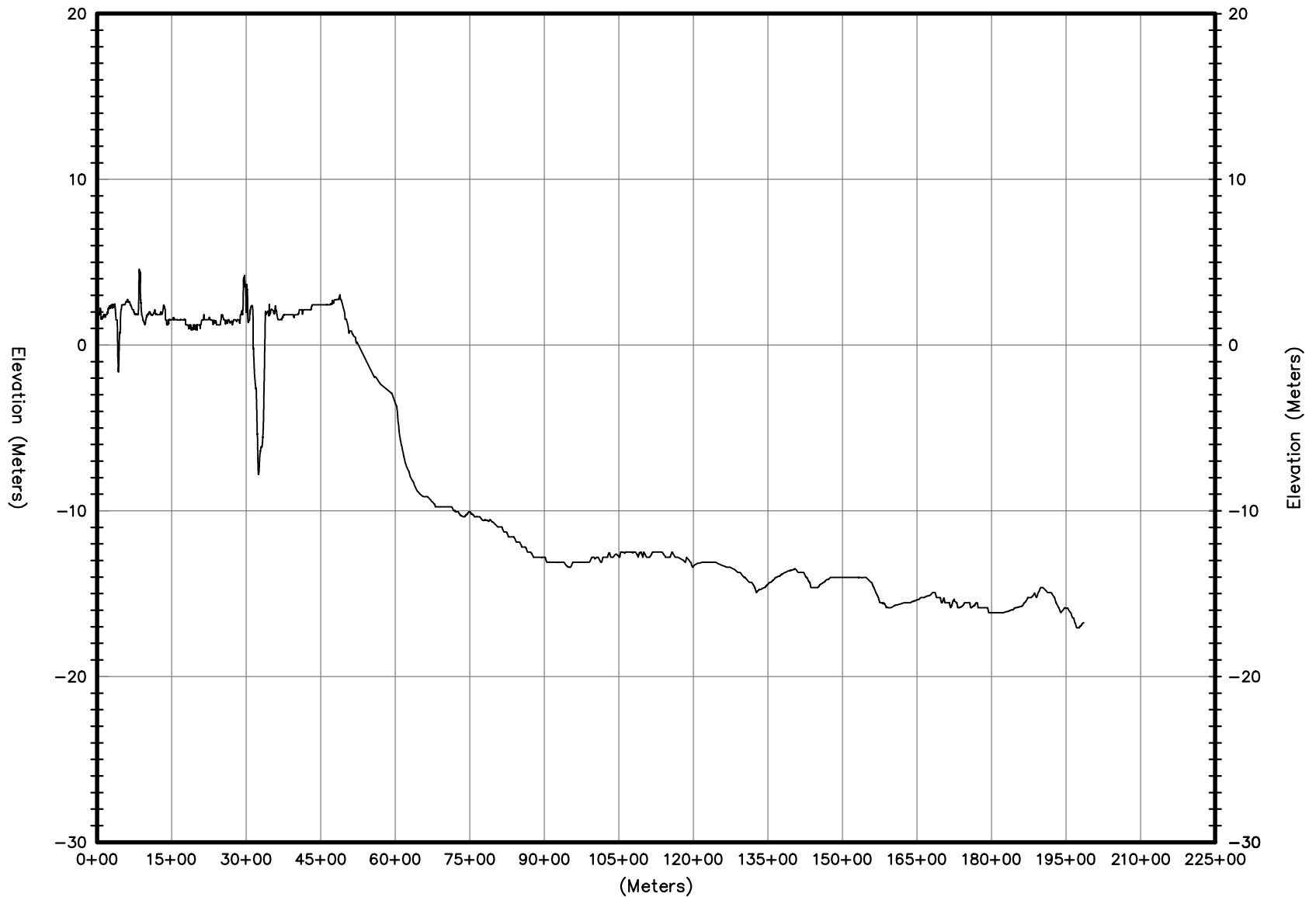
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Title
EMPIRE OFFSHORE WIND LLC.
EMPIRE WIND 2 PROJECT
BARNUM CHANNEL BRIDGE CROSSING
TYPICAL SECTION
NASSAU COUNTY, NEW YORK
ISSUED FOR ARTICLE VII APPLICATION



Mott MacDonald NY Inc.
111 Wood Avenue South
Iselin, NJ 08830-4112
Certificate of Authorization #: 0017019

Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	Status	Rev
02/02/2022	MMT	MWC	MDN	As Shown	BARNUM CHANNEL BRIDGE CROSSING TYPICAL SECTION	PRE	A



WWW.TETRATECH.COM
10 POST OFFICE SQUARE, 11TH FLOOR
BOSTON, MA 02109
Phone: (617) 443-7500 Fax: (617) 737-3480

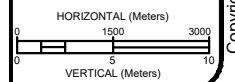
NO	REVISION	DATE
1	ISSUE FOR ARTICLE VII	5/19/22

EMPIRE OFFSHORE WIND LLC
EMPIRE WIND 2 - EXPORT CABLES
EXAGGERATED PROFILE

PROJ: 194-1247-0001

DESIGN: R. GIFFORD

PAGE 1 OF 1



Bar Measures 1 inch