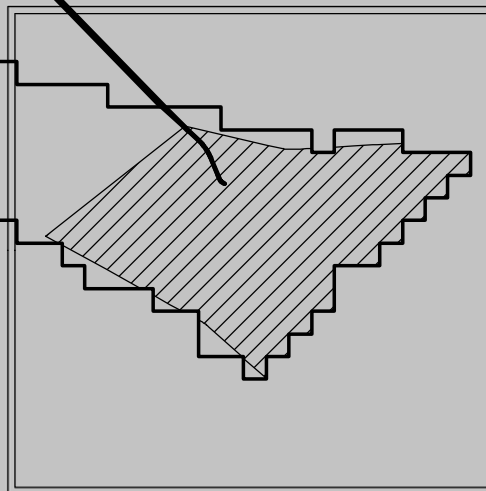
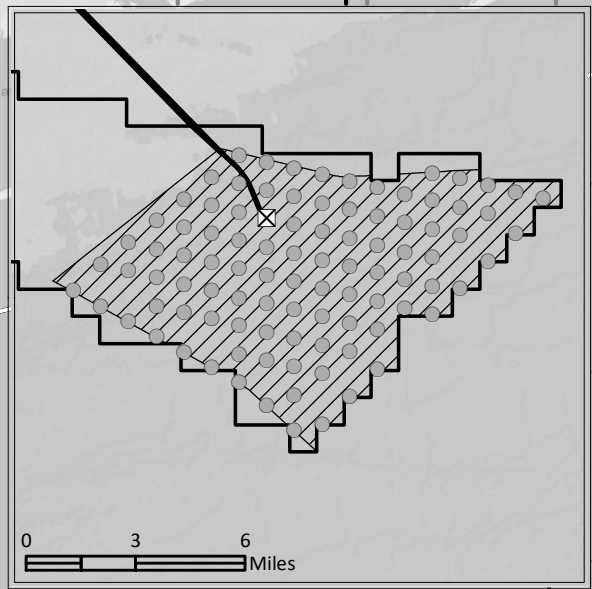


- ▲ POI
- EW 2 Turbine Array Layout*
- ⊠ EW 2 Offshore Substation*
- ▭ Lease Area
- EW 2 Submarine Export Cable Route
- ⋯ EW 2 Onshore Cable Route
- ▨ EW 2
- State Territorial Waters Boundary

*Turbine layout reflects potential turbine locations. Not drawn to scale.

Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
 Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



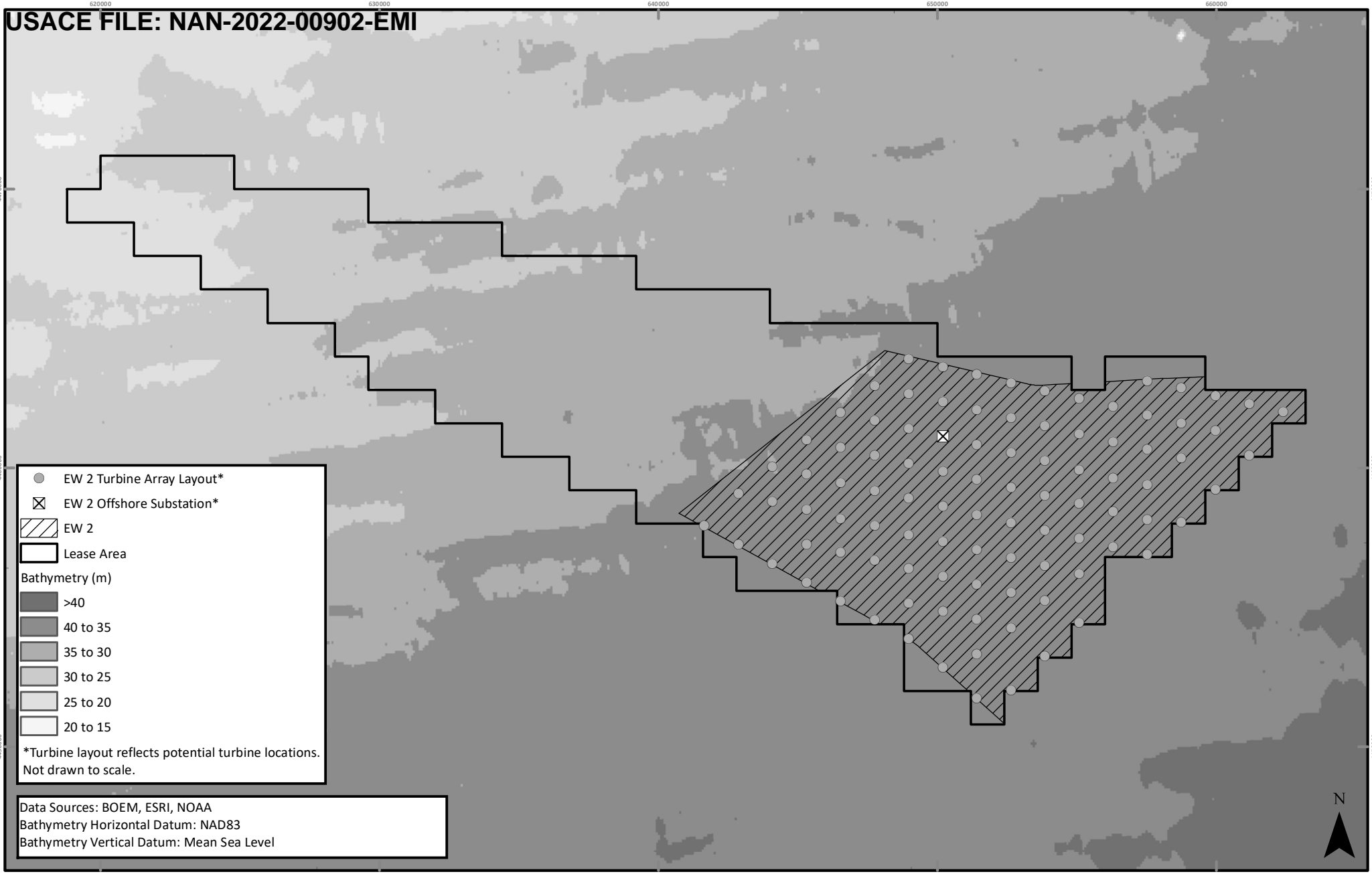
APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN

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 Phone: (617)-443-7500
 Fax: (617)737-34809

EMPIRE OFFSHORE WIND LLC

PROJECT VICINITY

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 4 8 Miles



- EW 2 Turbine Array Layout*
- ⊗ EW 2 Offshore Substation*
- ▨ EW 2
- ▭ Lease Area

Bathymetry (m)

- >40
- 40 to 35
- 35 to 30
- 30 to 25
- 25 to 20
- 20 to 15

*Turbine layout reflects potential turbine locations.
Not drawn to scale.

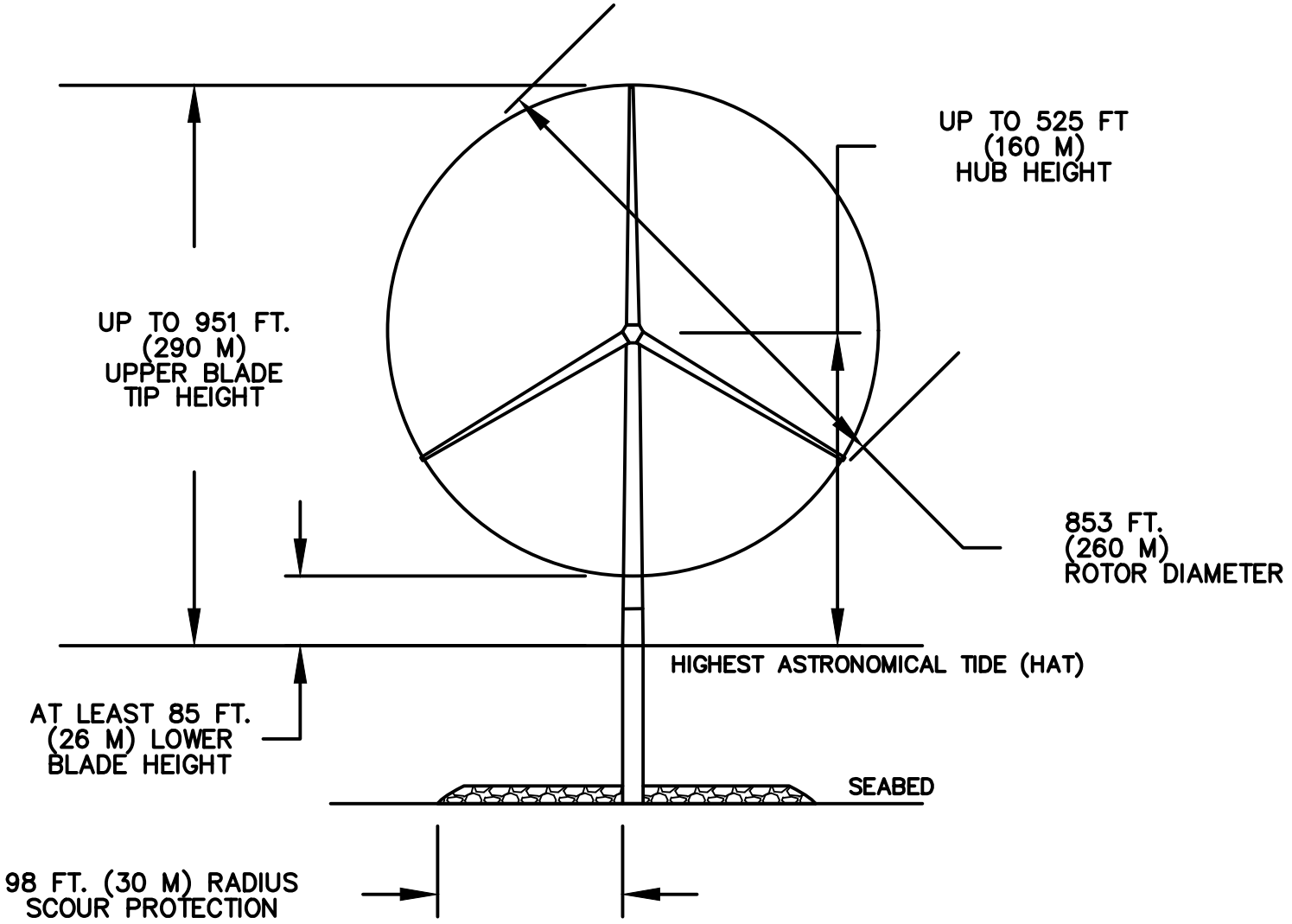
Data Sources: BOEM, ESRI, NOAA
 Bathymetry Horizontal Datum: NAD83
 Bathymetry Vertical Datum: Mean Sea Level

APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN

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EMPIRE OFFSHORE WIND LLC
 CONCEPTUAL LAYOUT

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 1.5 3 Miles



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USACE #: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 LEASE AREA OCS-A 0512 TERMINAL
 SHEET 1 OF 1 DATE: 11/3/22

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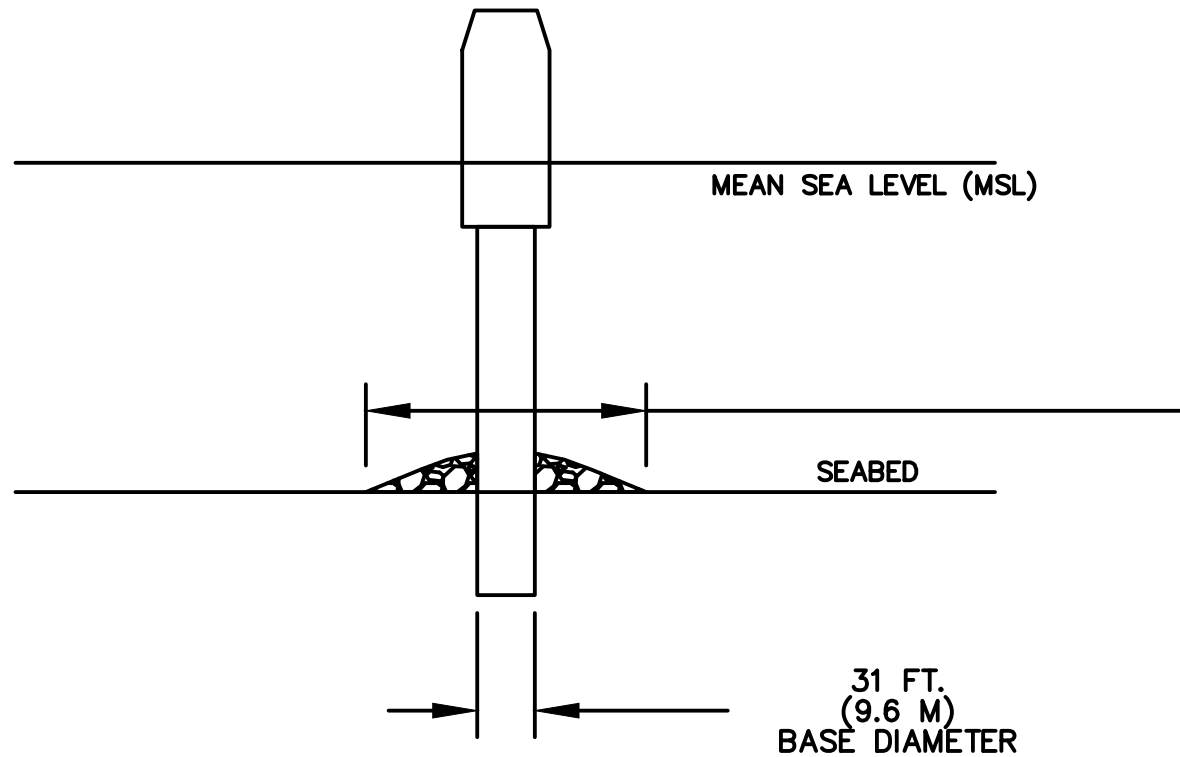
NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2
 WIND TURBINE GENERATOR

PROJ: 194-1247-0001
 DESN: R. GIFFORD
 NTS

Bar Measures 1 inch

Copyright: Tetra Tech



755 FT²
(70 M²)
SEABED FOOTPRINT
WITHOUT SCOUR PROTECTION
39,902 FT²
(3,707 M²)
SEABED FOOTPRINT
WITH SCOUR PROTECTION

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USACE #: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 LEASE AREA OCS-A 0512 TERMINAL



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2	ISSUE TO USACE	11/3/22

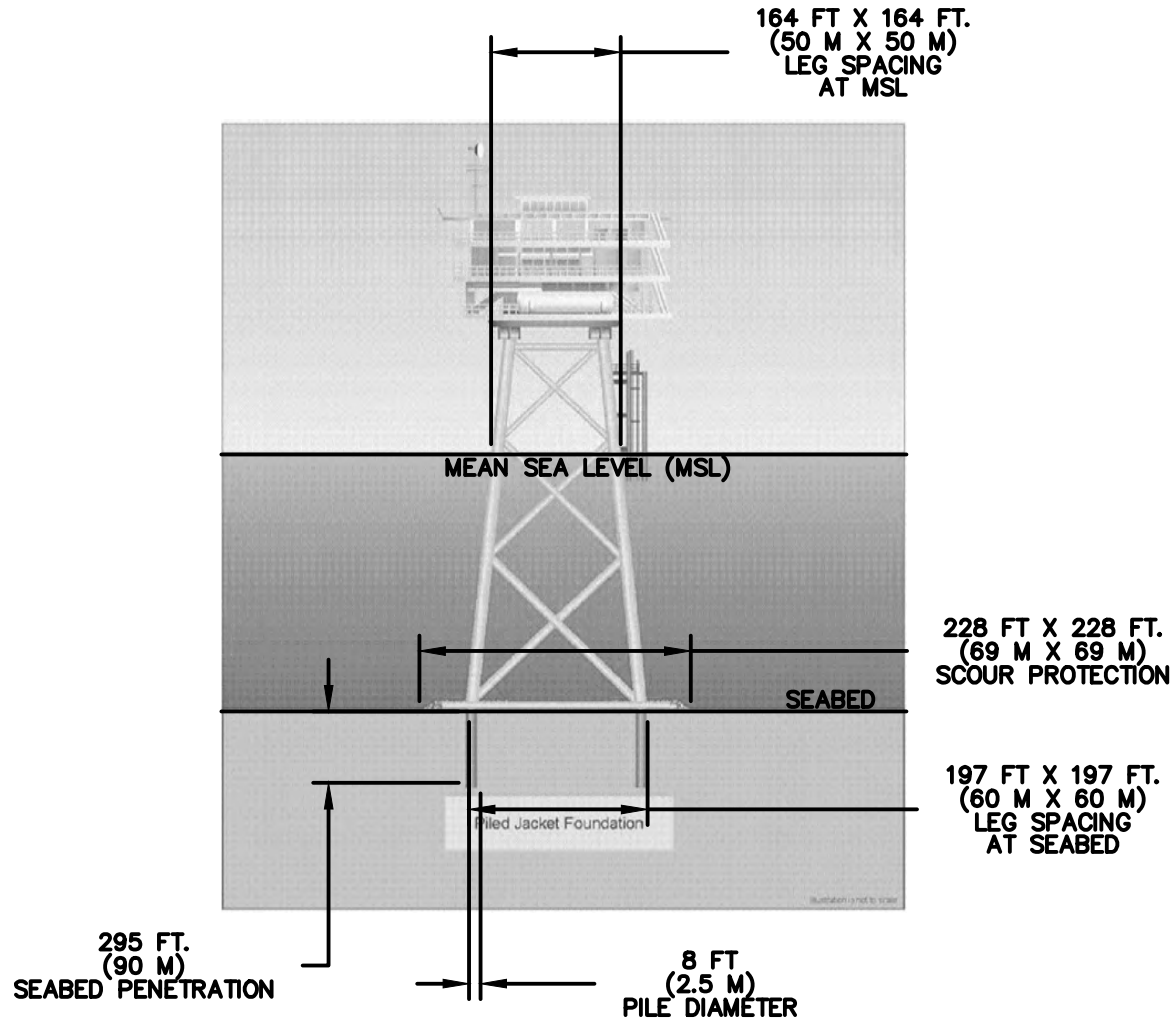
EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2
 FOUNDATION CROSS SECTION

PROJ: 194-1247-0001
 DESN: R. GIFFORD
 NTS

SHEET 1 OF 1

DATE: 11/3/22

Bar Measures 1 inch



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USACE #: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 LEASE AREA OCS-A 0512 TERMINAL
 SHEET 1 OF 1 DATE: 11/3/22



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EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2
 OFFSHORE SUBSTATION CROSS SECTION

PROJ: 194-1247-0001
 DESN: R. GIFFORD
 NTS

Bar Measures 1 inch

USACE FILE: NAN-2022-00902-EMI

LOC	Northing	Easting	Lat	Long	Depth (m)
1	34632.17	1170060.77	40.25980	-73.33427	-36.6
2	38410.34	1174109.34	40.27008	-73.31966	-37.4
3	32374.77	1174041.80	40.25352	-73.32007	-37.0
4	41537.49	1178150.28	40.27858	-73.30509	-36.2
5	37422.48	1178104.22	40.26728	-73.30538	-37.5
6	30117.08	1178022.50	40.24723	-73.30588	-39.8
7	44664.62	1182191.20	40.28707	-73.29052	-37.3
8	40549.63	1182145.14	40.27578	-73.29081	-36.7
9	36434.30	1182099.09	40.26448	-73.29109	-37.7
10	32319.29	1182053.06	40.25319	-73.29138	-38.0
11	27859.42	1182003.19	40.24095	-73.29168	-40.2
12	47791.72	1186232.44	40.29556	-73.27595	-36.9
13	43676.42	1186186.36	40.28427	-73.27623	-36.8
14	39561.45	1186140.30	40.27298	-73.27652	-37.4
15	35282.40	1186092.43	40.26123	-73.27682	-38.3
16	31331.47	1186048.25	40.25039	-73.27709	-39.0
17	25602.10	1185984.21	40.23466	-73.27749	-39.0
18	50918.47	1190273.32	40.30405	-73.26137	-36.3
19	46803.53	1190227.24	40.29276	-73.26166	-37.2
20	42688.57	1190181.18	40.28147	-73.26194	-37.0
21	38573.61	1190135.13	40.27017	-73.26223	-38.5
22	34458.32	1190089.11	40.25888	-73.26252	-38.7
23	30343.34	1190043.10	40.24759	-73.26281	-39.3
24	23344.48	1189964.90	40.22838	-73.26330	-40.4
25	54045.52	1194314.51	40.31254	-73.24678	-36.6
26	49930.60	1194268.42	40.30125	-73.24707	-37.3
27	45815.67	1194222.36	40.28996	-73.24737	-38.0
28	41700.41	1194176.30	40.27866	-73.24766	-37.2
29	37585.46	1194130.27	40.26737	-73.24795	-38.9
30	33306.45	1194082.43	40.25562	-73.24825	-38.4
31	29355.55	1194038.27	40.24478	-73.24853	-39.4
32	25240.25	1193992.29	40.23349	-73.24882	-40.1
33	21086.88	1193945.91	40.22209	-73.24912	-40.5
34	53057.65	1198309.26	40.30974	-73.23249	-37.4
35	48942.75	1198263.19	40.29844	-73.23278	-37.4
37	40712.59	1198171.09	40.27585	-73.23337	-38.2
38	36597.66	1198125.08	40.26456	-73.23367	-38.4
39	32482.73	1198079.08	40.25327	-73.23396	-38.7
40	28367.45	1198033.10	40.24197	-73.23425	-40.0
41	24252.50	1197987.13	40.23068	-73.23455	-39.9
42	17674.00	1197913.70	40.21263	-73.23502	-40.6
43	52069.47	1202304.00	40.30693	-73.21820	-38.7
44	47954.58	1202257.94	40.29563	-73.21850	-38.1
45	43839.69	1202211.90	40.28434	-73.21879	-38.2
46	39724.79	1202165.87	40.27305	-73.21909	-38.8
47	35609.55	1202119.86	40.26175	-73.21938	-38.8
48	31494.63	1202073.88	40.25046	-73.21968	-39.6
49	27379.70	1202027.91	40.23917	-73.21998	-40.6
50	23264.76	1201981.96	40.22787	-73.22027	-40.3

LOC	Northing	Easting	Lat	Long	Depth (m)
51	19149.49	1201936.03	40.21658	-73.22057	-40.7
52	14036.39	1201878.99	40.20255	-73.22094	-41.4
53	51081.63	1206299.06	40.30412	-73.20391	-38.4
54	46966.76	1206253.01	40.29282	-73.20421	-38.6
55	42851.55	1206206.97	40.28153	-73.20451	-38.8
56	38736.67	1206160.96	40.27024	-73.20481	-38.9
57	34621.77	1206114.97	40.25894	-73.20510	-39.5
58	30506.87	1206069.00	40.24765	-73.20540	-40.1
59	26391.63	1206023.04	40.23636	-73.20570	-40.7
60	22276.71	1205977.10	40.22506	-73.20600	-41.2
61	14894.05	1205894.74	40.20480	-73.20653	-41.5
62	50093.48	1210293.77	40.30130	-73.18962	-38.6
63	45978.63	1210247.73	40.29001	-73.18992	-38.8
64	41863.76	1210201.71	40.27872	-73.19022	-39.2
65	37748.90	1210155.71	40.26742	-73.19052	-39.4
66	33633.69	1210109.73	40.25613	-73.19082	-40.6
67	29518.80	1210063.77	40.24484	-73.19113	-41.2
68	25403.91	1210017.83	40.23354	-73.19143	-41.1
69	18819.60	1209944.36	40.21547	-73.19191	-41.6
70	49105.67	1214288.79	40.29849	-73.17533	-38.9
71	44990.83	1214242.77	40.28720	-73.17564	-39.2
72	40711.61	1214194.93	40.27545	-73.17595	-40.0
73	36760.81	1214150.77	40.26461	-73.17624	-40.0
74	32645.95	1214104.81	40.25332	-73.17655	-40.5
75	28531.08	1214058.86	40.24202	-73.17685	-41.1
76	22745.11	1213994.28	40.22615	-73.17727	-41.6
77	48117.55	1218283.48	40.29567	-73.16105	-39.6
78	44002.73	1218237.46	40.28438	-73.16135	-39.6
79	39723.85	1218189.64	40.27264	-73.16167	-40.3
80	35773.07	1218145.50	40.26180	-73.16196	-40.4
81	31658.04	1218099.55	40.25050	-73.16227	-41.1
82	51086.75	1222322.40	40.30372	-73.14646	-39.8
83	47129.78	1222278.15	40.29286	-73.14676	-40.2
84	43014.97	1222232.15	40.28156	-73.14707	-40.0
85	38900.17	1222186.17	40.27027	-73.14738	-40.4
86	34785.02	1222140.20	40.25898	-73.14769	-40.6
87	30670.19	1222094.26	40.24768	-73.14799	-41.9
88	50256.79	1226319.14	40.30133	-73.13217	-40.4
89	46142.01	1226273.14	40.29004	-73.13248	-40.3
90	42026.90	1226227.14	40.27874	-73.13279	-40.6
91	34423.01	1226142.21	40.25788	-73.13336	-41.2
92	49268.70	1230313.77	40.29851	-73.11788	-41.6
93	45153.94	1230267.78	40.28722	-73.11819	-40.5
94	38282.76	1230191.01	40.26836	-73.11872	-40.7
95	48280.96	1234308.72	40.29569	-73.10360	-41.0
96	42175.28	1234240.49	40.27893	-73.10407	-41.1
97	47292.90	1238303.32	40.29286	-73.08932	-41.2
EW 2 OS2 (36)	44827.51	1198217.13	40.28715	-73.23308	-37.3

NOTES

- HORIZONTAL DATUM REFERENCED TO NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT
- TURBINE LAYOUT REFLECTS POTENTIAL TURBINE LOCATIONS, NOT THE ACTUAL NUMBER OF TURBINES.

DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION

USACE #: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 LEASE AREA OCS-A 0512 TERMINAL



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EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2
 FOUNDATION LOCATIONS AND WATER DEPTHS

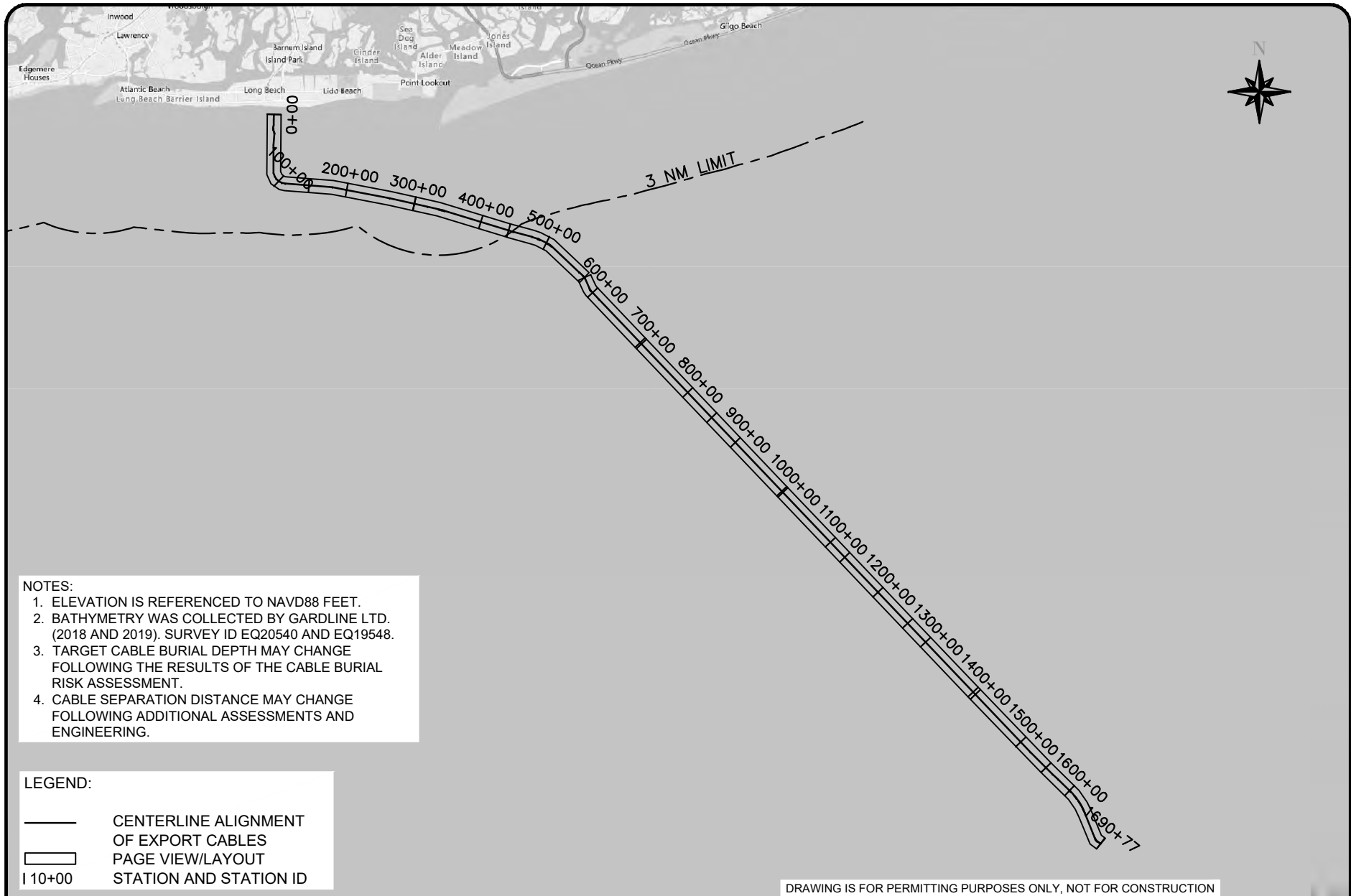
PROJ: 194-1247-0001
 DESN: R. GIFFORD

SHEET 1 OF 1

DATE: 11/3/22

Bar Measures 1 inch

USACE FILE: NAN-2022-00902-EMI



NOTES:

1. ELEVATION IS REFERENCED TO NAVD88 FEET.
2. BATHYMETRY WAS COLLECTED BY GARDLINE LTD. (2018 AND 2019). SURVEY ID EQ20540 AND EQ19548.
3. TARGET CABLE BURIAL DEPTH MAY CHANGE FOLLOWING THE RESULTS OF THE CABLE BURIAL RISK ASSESSMENT.
4. CABLE SEPARATION DISTANCE MAY CHANGE FOLLOWING ADDITIONAL ASSESSMENTS AND ENGINEERING.

LEGEND:

- CENTERLINE ALIGNMENT OF EXPORT CABLES
- ▭ PAGE VIEW/LAYOUT
- | 10+00 STATION AND STATION ID

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USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 LOCATION:
 LEASE AREA OCS-A 0512 TERMINAL
 LAT/LONG:
 40.579705, -73.661376
 40.287287, -73.233098

PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 IN: ATLANTIC OCEAN, UPPER AND LOWER
 NEW YORK BAY
 NEAR/AT: BROOKLYN
 COUNTY: KINGS COUNTY
 STATE: NEW YORK
 SHEET 1 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2
 OVER PLAN VIEW

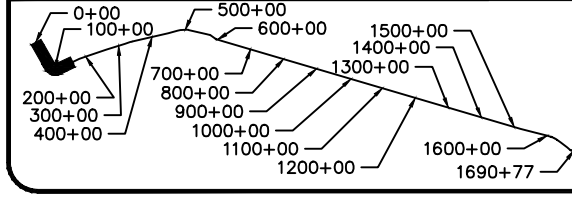
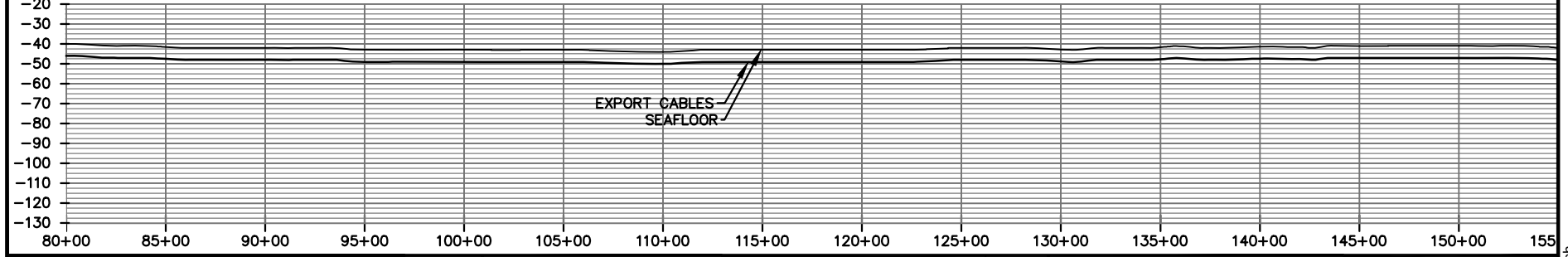
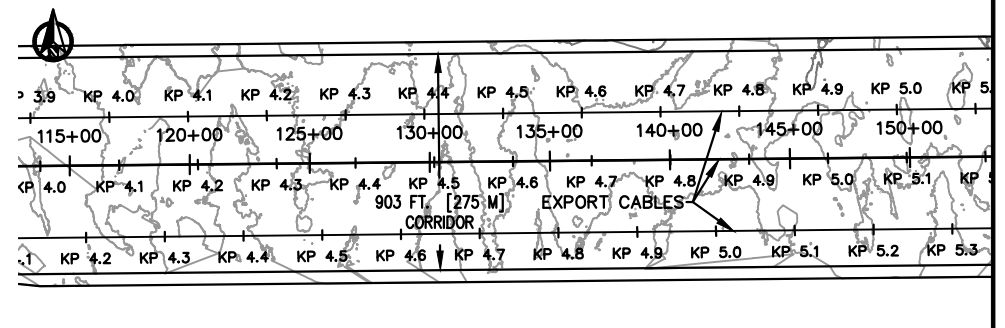
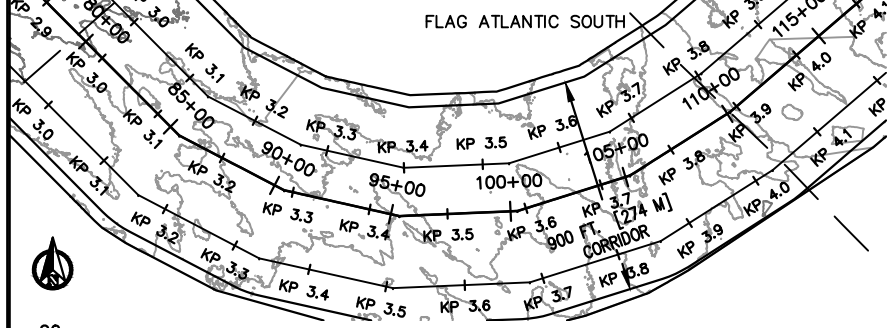
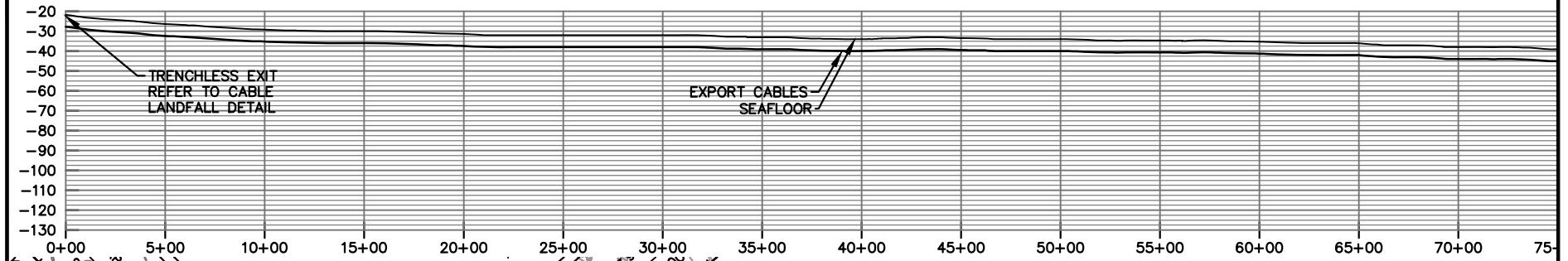
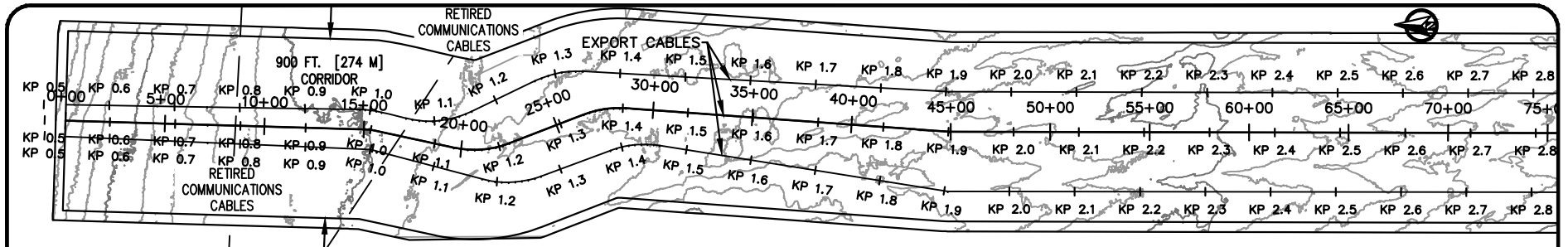
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PROJ: 194-1247-0001
 DESN: R. GIFFORD

Bar Measures 1 inch

Copyright: Tetra Tech



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 2 OF 13 DATE: 11/3/22

NO	REVISION	DATE
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2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 0+00 - 150+00

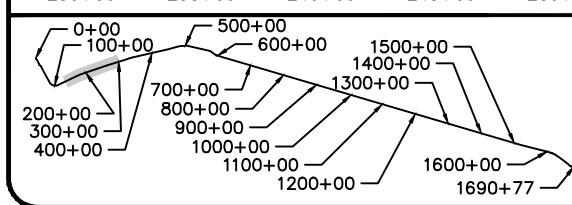
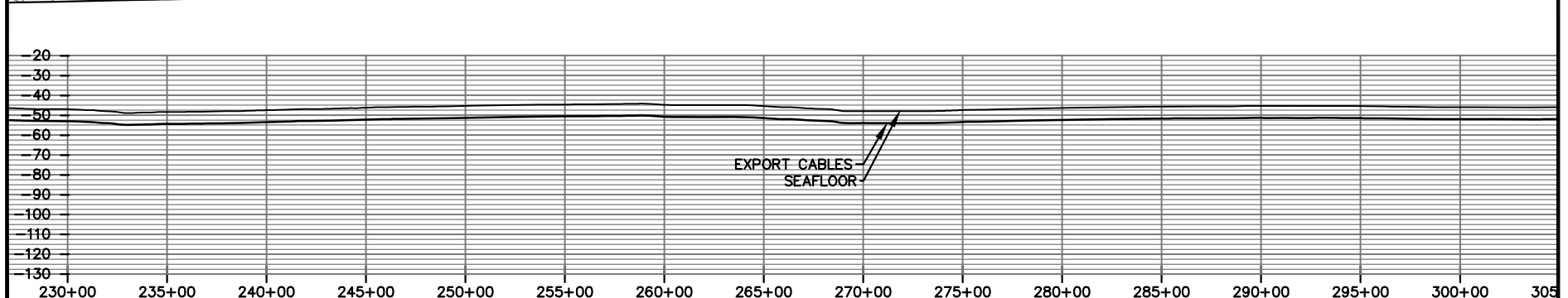
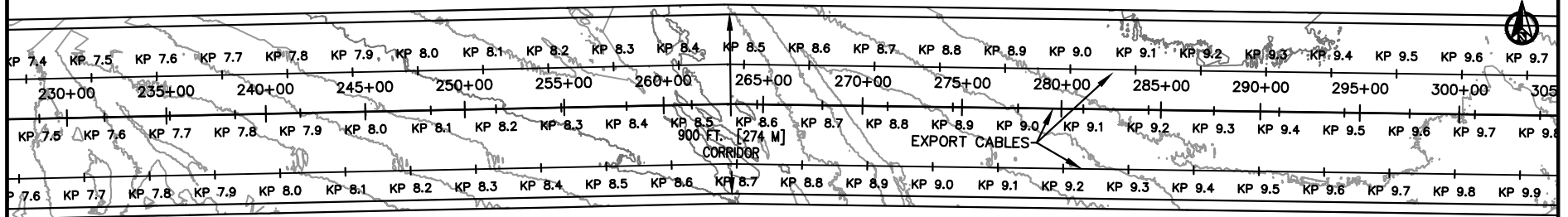
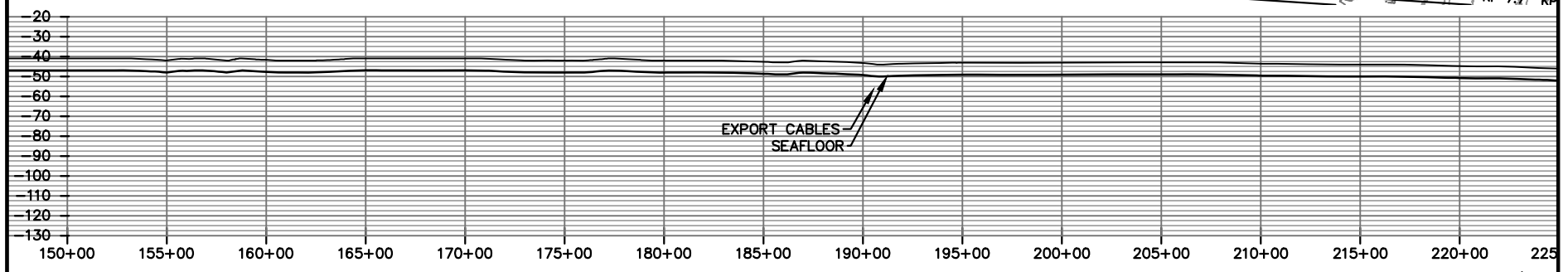
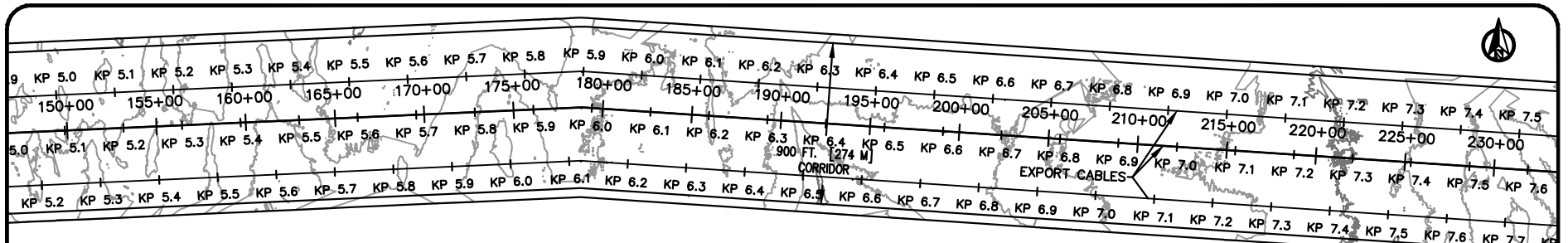
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PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 Vertical (feet)

Copyright: Tetra Tech

Bar Measures 1 inch



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 3 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 150+00 - 300+00

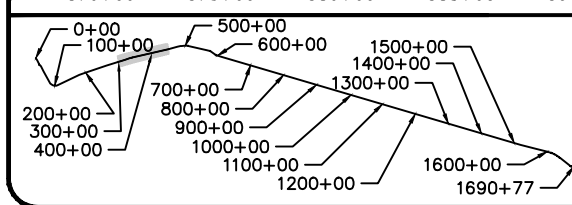
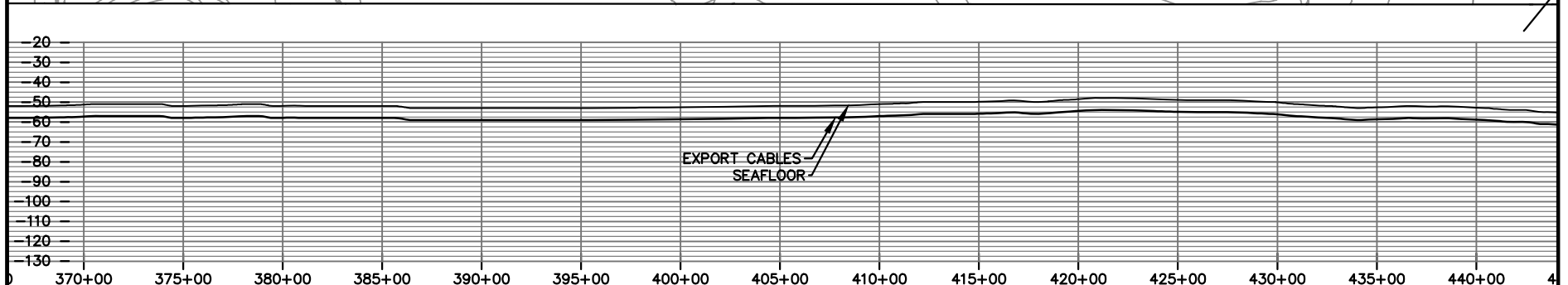
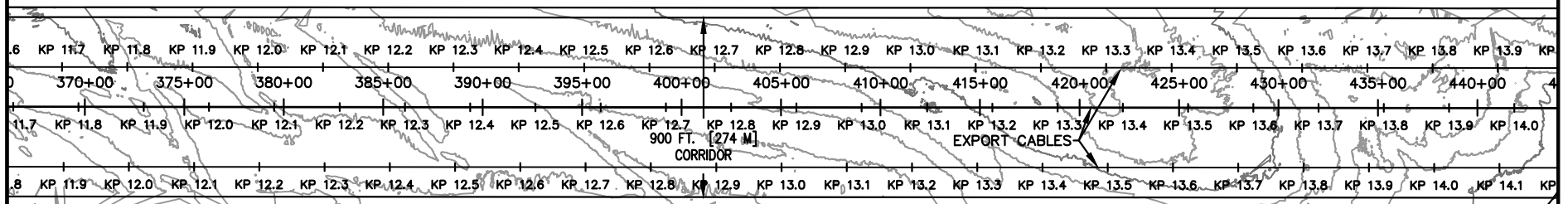
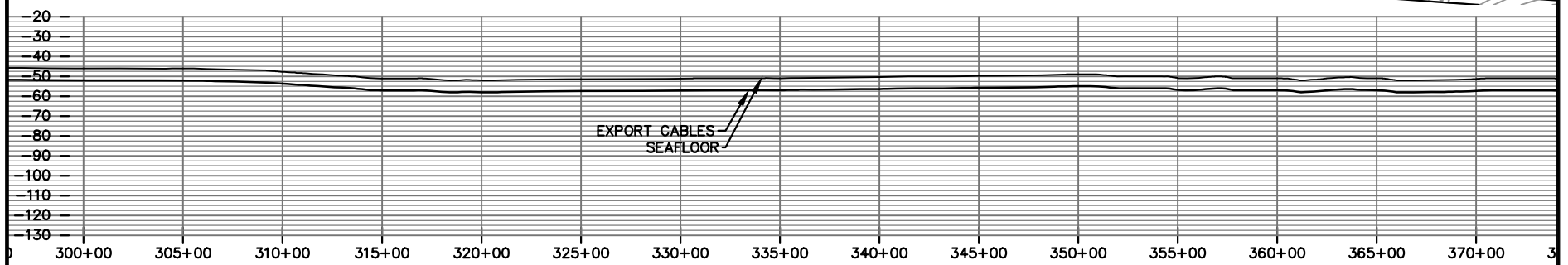
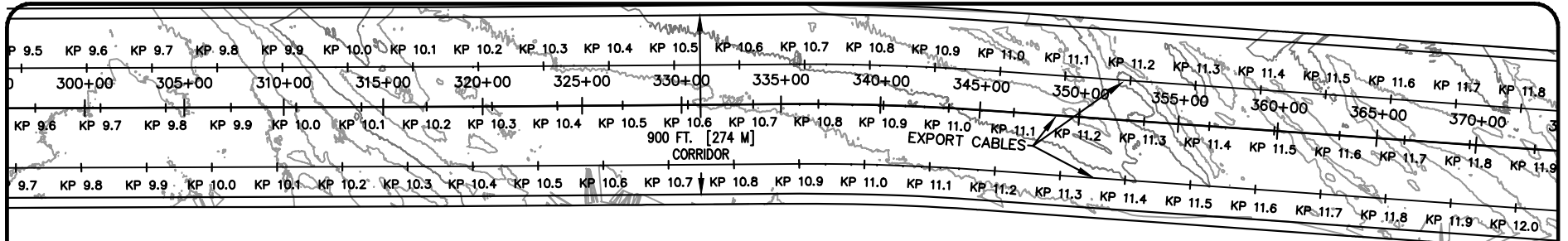
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 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 Vertical (feet)

Bar Measures 1 inch

Copyright: Tetra Tech



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 4 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
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EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 300+00 - 440+00

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

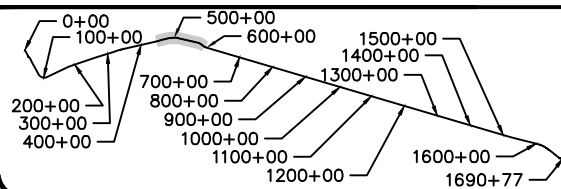
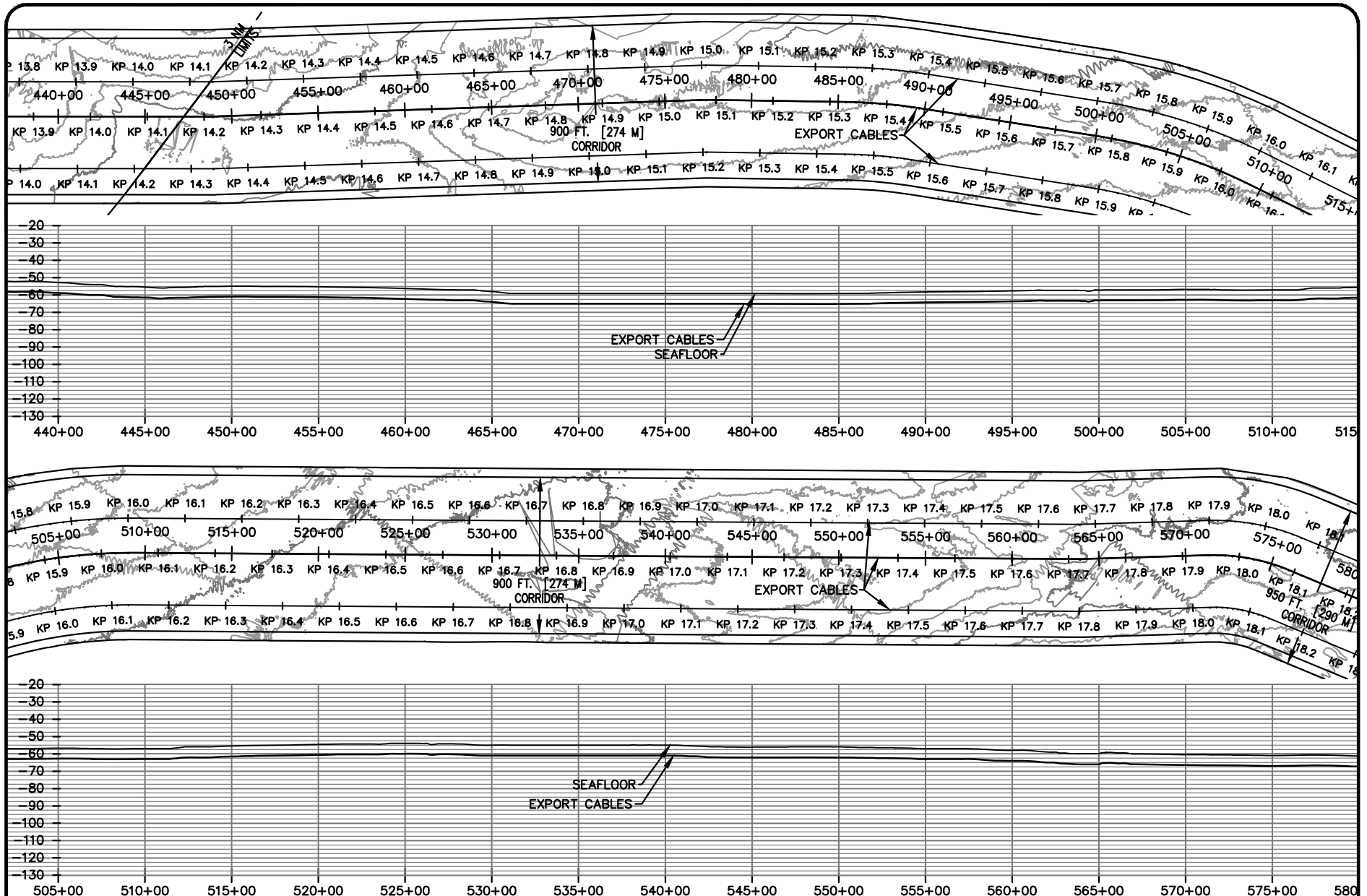
PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 0 400 800

Vertical (feet)
 0 40 80

Bar Measures 1 inch

Copyright: Tetra Tech



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 5 OF 13 DATE: 11/3/22

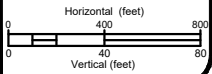
NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 440+00 - 575+00

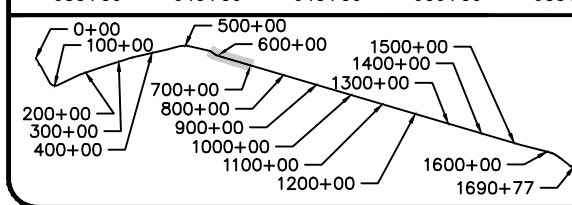
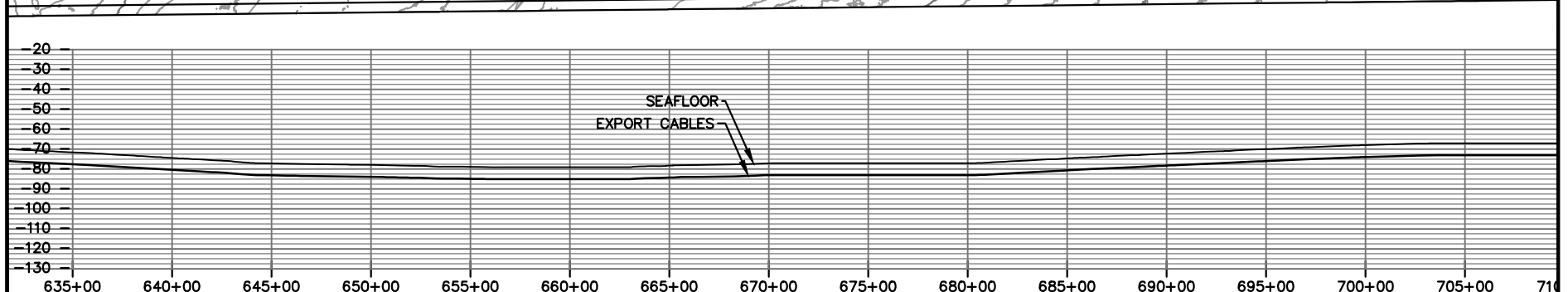
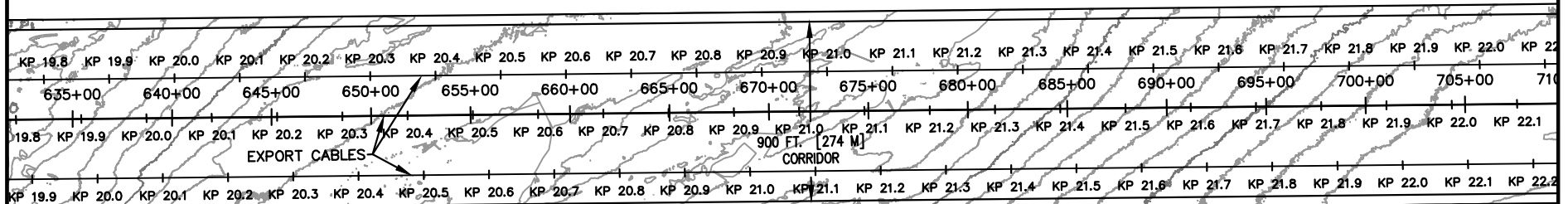
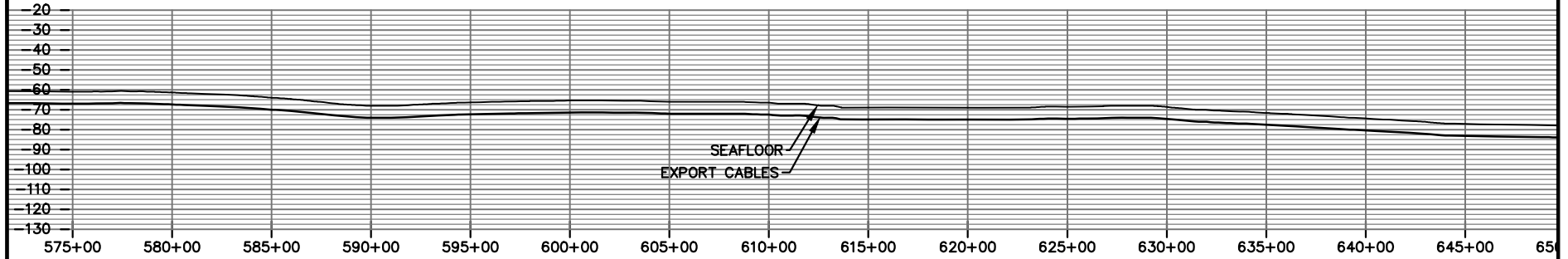
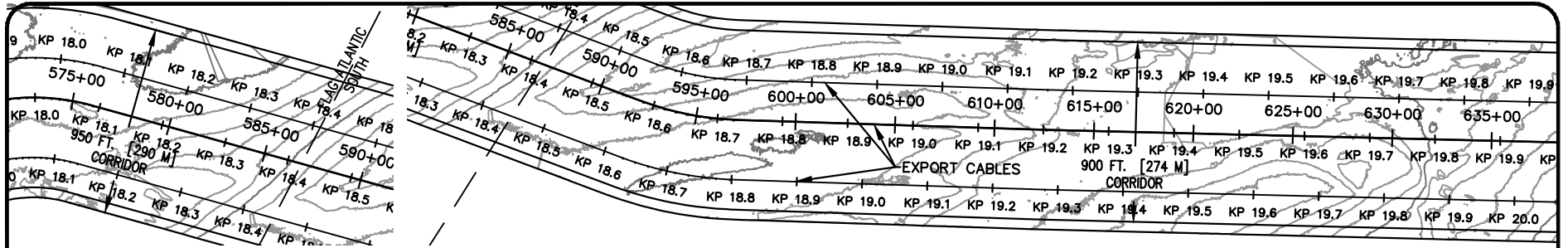
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

PROJ: 194-1247-0001
 DESN: R. GIFFORD



Bar Measures 1 inch

Copyright: Tetra Tech



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 6 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 575+00 - 705+00

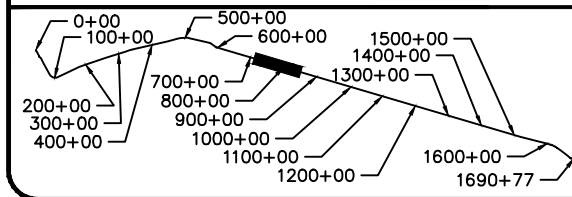
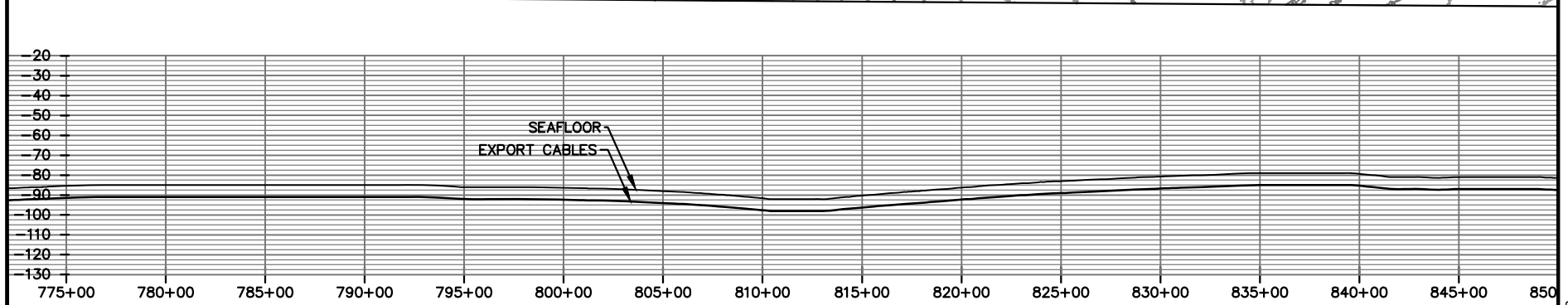
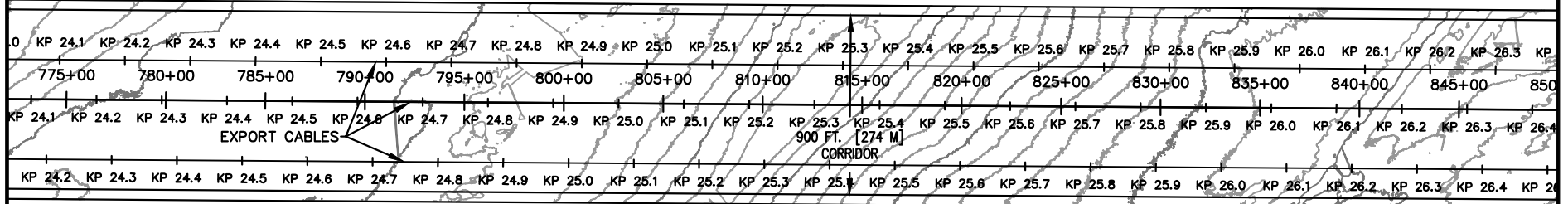
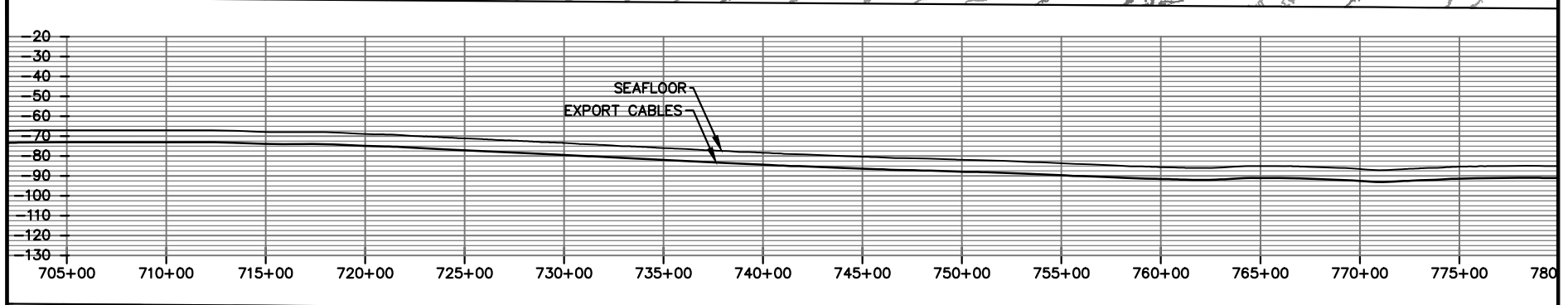
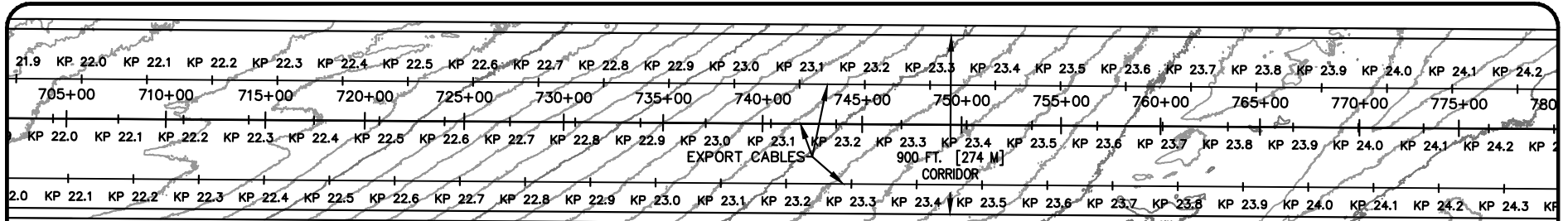
WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 Vertical (feet)

Bar Measures 1 inch

Copyright: Tetra Tech



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 7 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 705+00 - 845+00

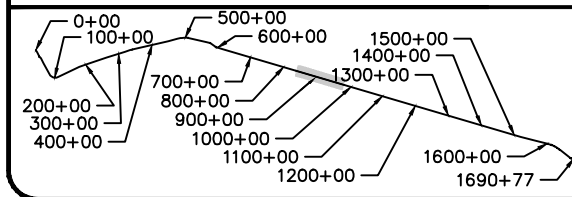
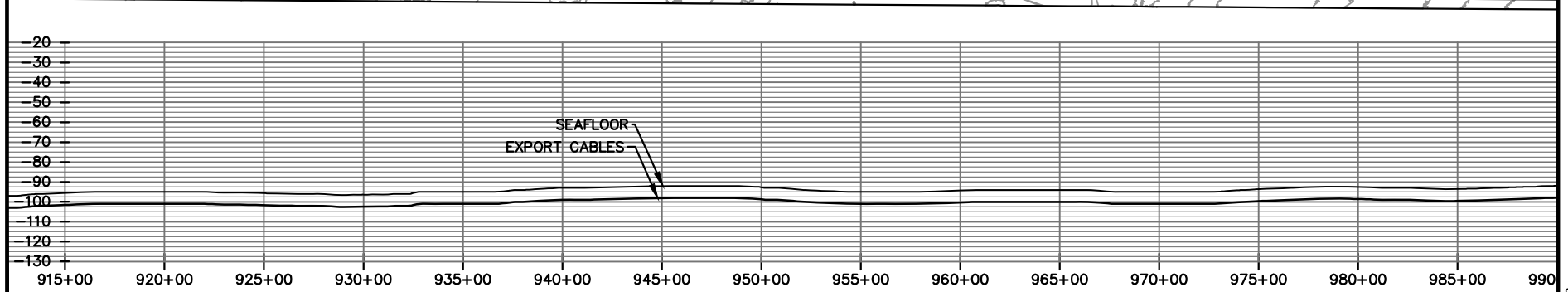
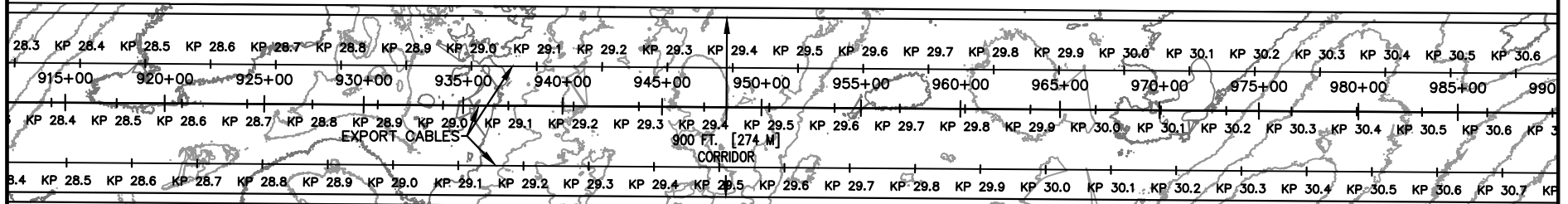
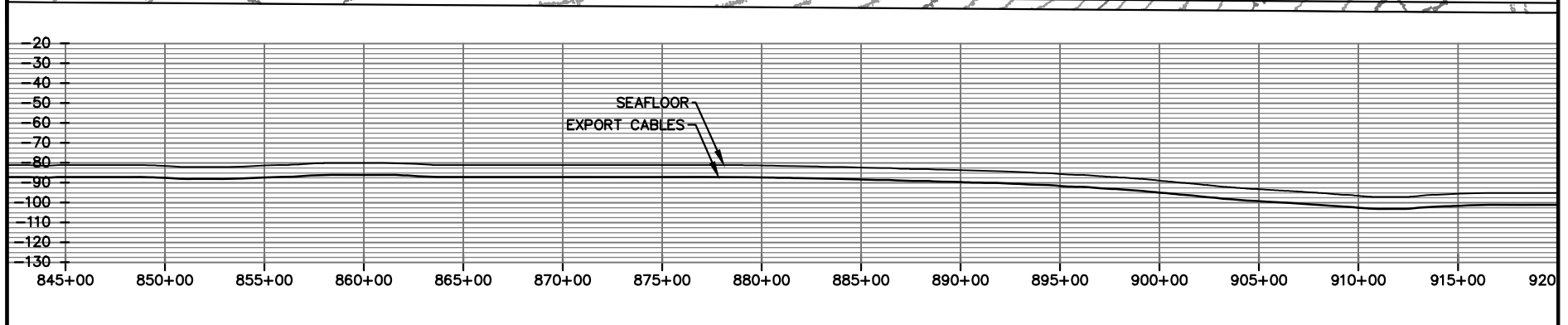
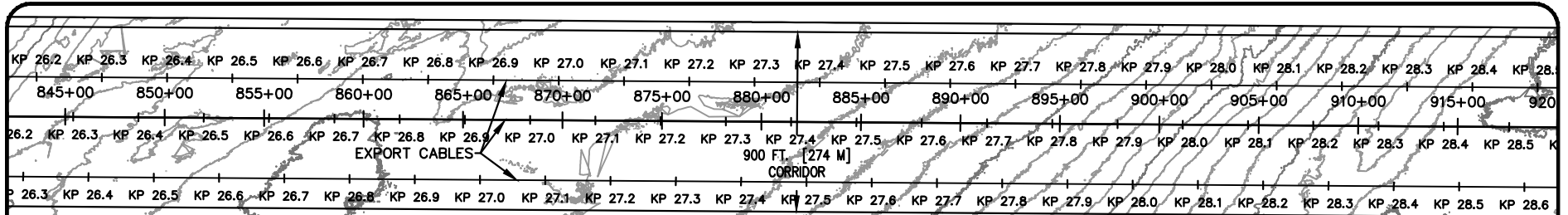
WWW.TETRATECH.COM
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 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 Vertical (feet)

Bar Measures 1 inch

Copyright: Tetra Tech



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 8 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 845+00 - 985+00

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

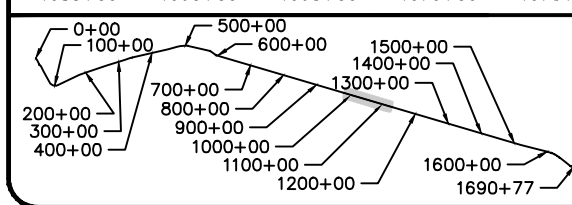
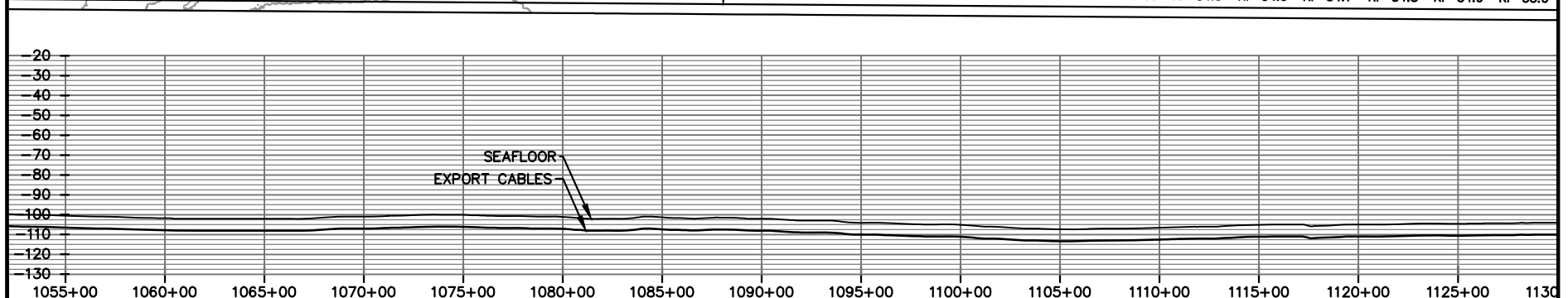
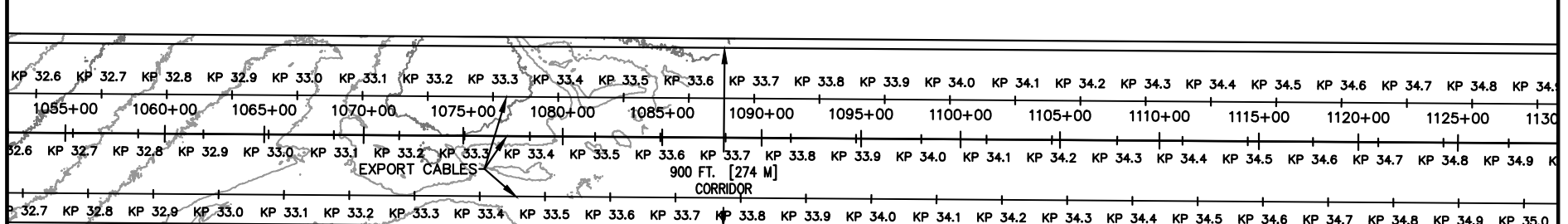
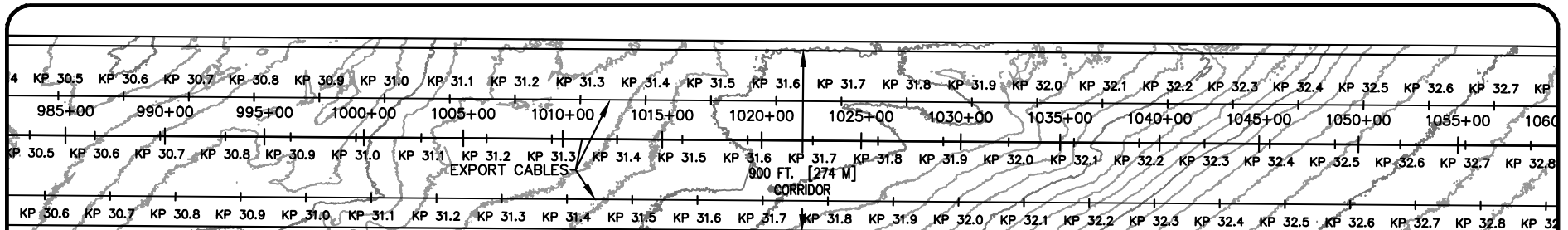
PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 0 400 800

Vertical (feet)
 0 40 80

Bar Measures 1 inch

Copyright: Tetra Tech



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 9 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 985+00 - 1125+00

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

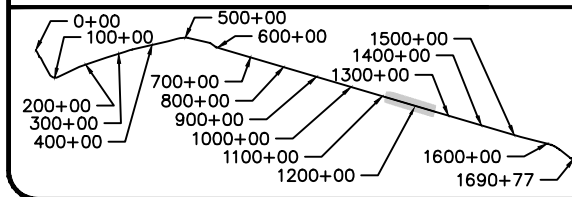
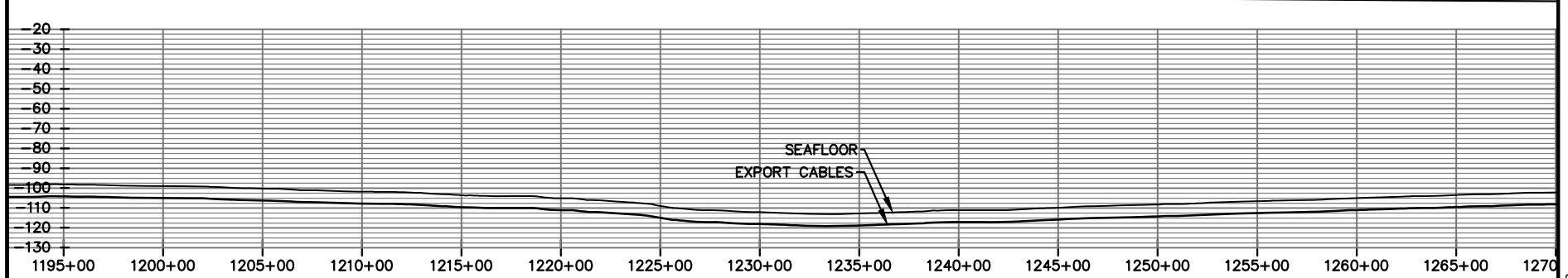
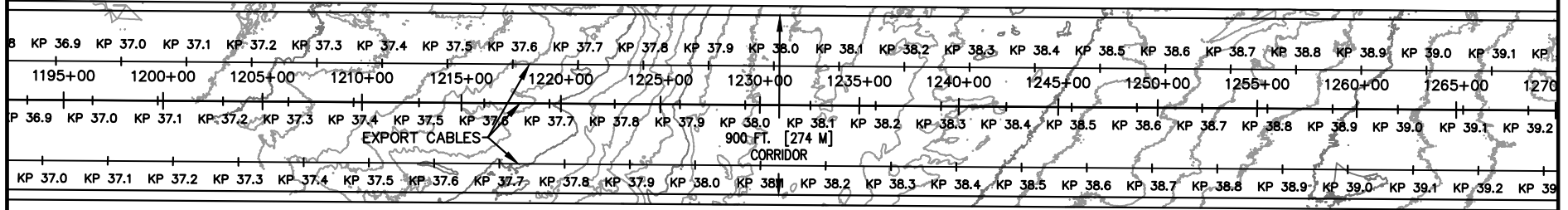
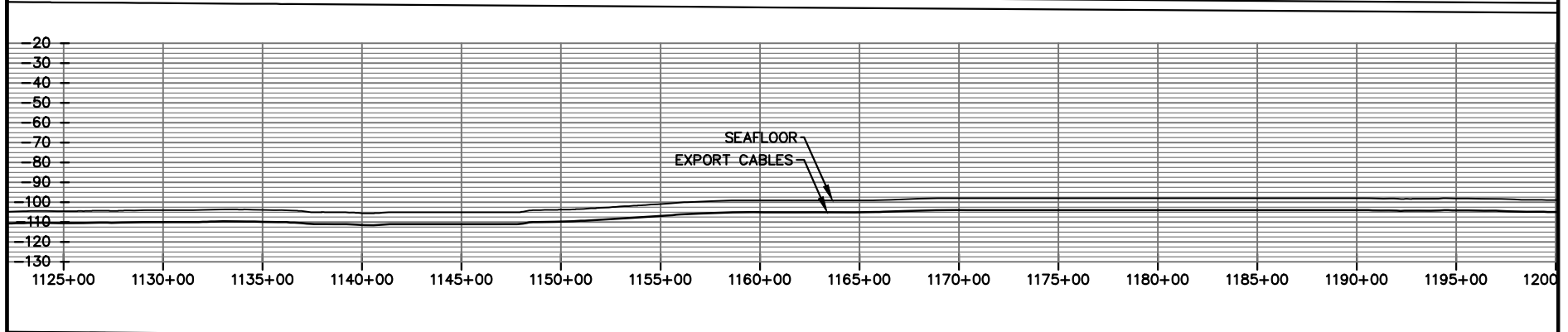
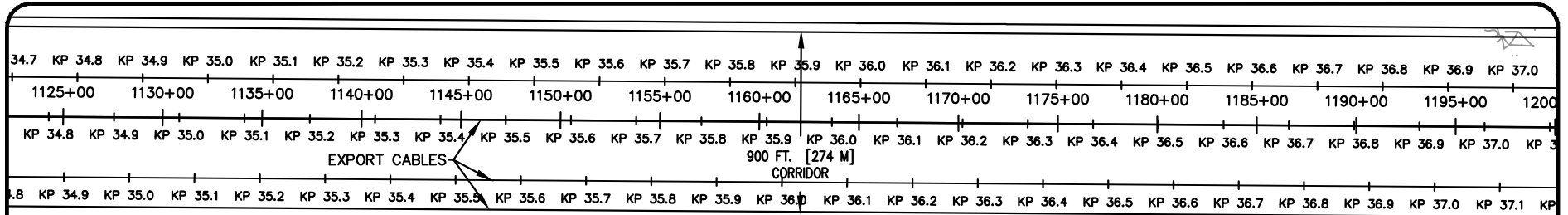
PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 Vertical (feet)



Copyright: Tetra Tech

Bar Measures 1 inch



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 10 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 1125+00 - 1265+00

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 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

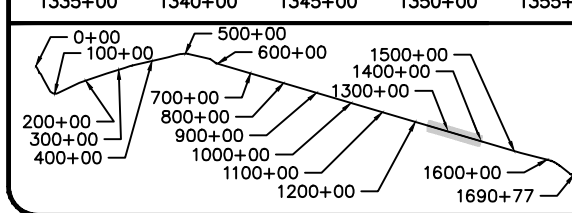
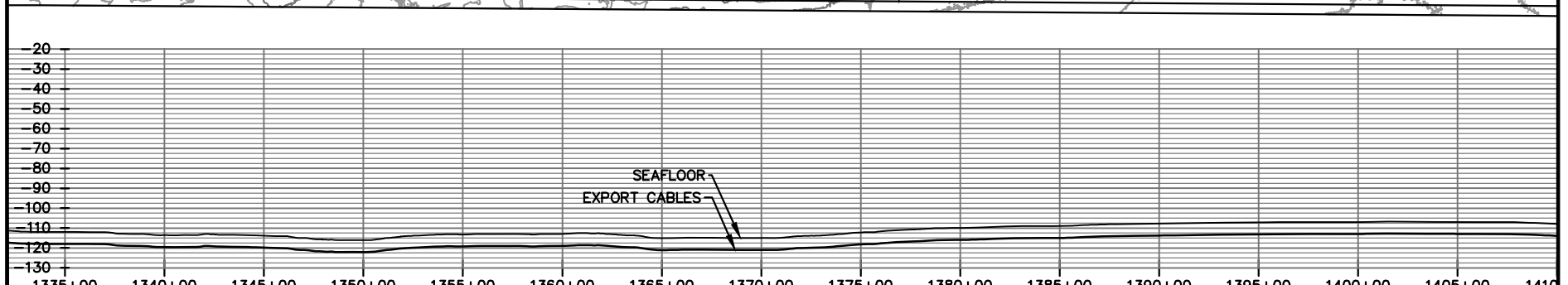
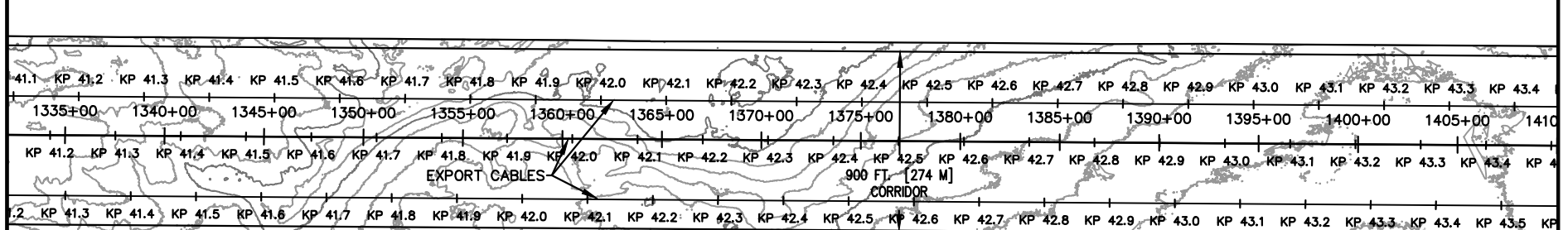
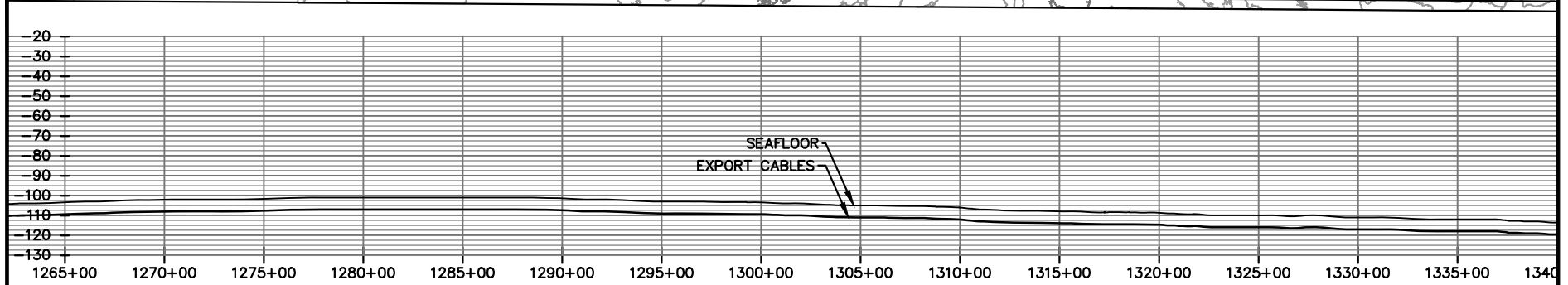
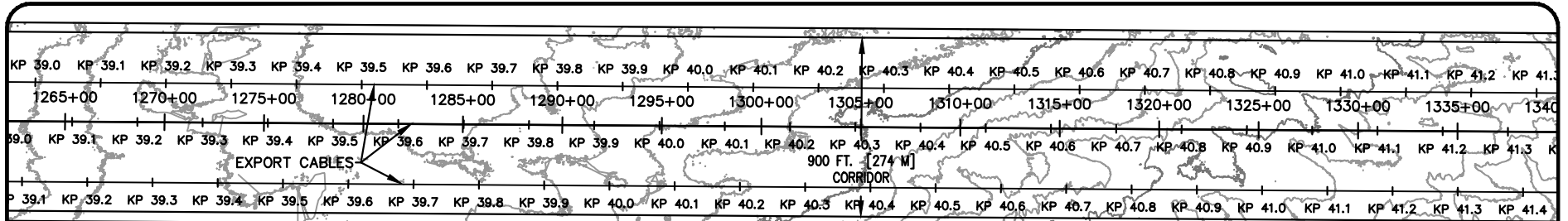
PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 Vertical (feet)



Copyright: Tetra Tech

Bar Measures 1 inch



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 11 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 1265+00 - 1405+00

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 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

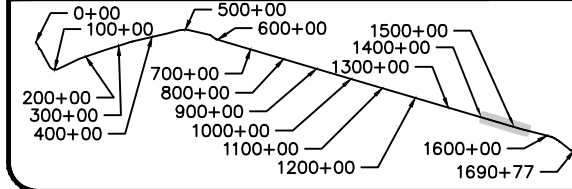
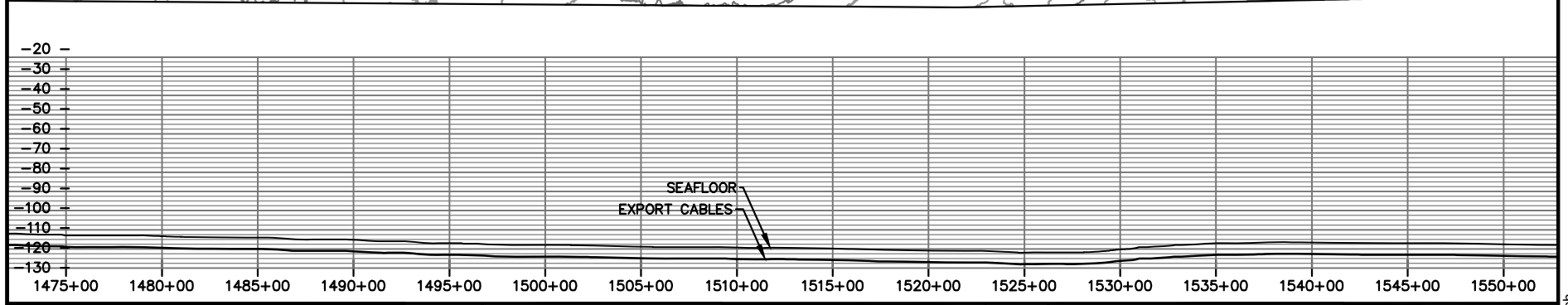
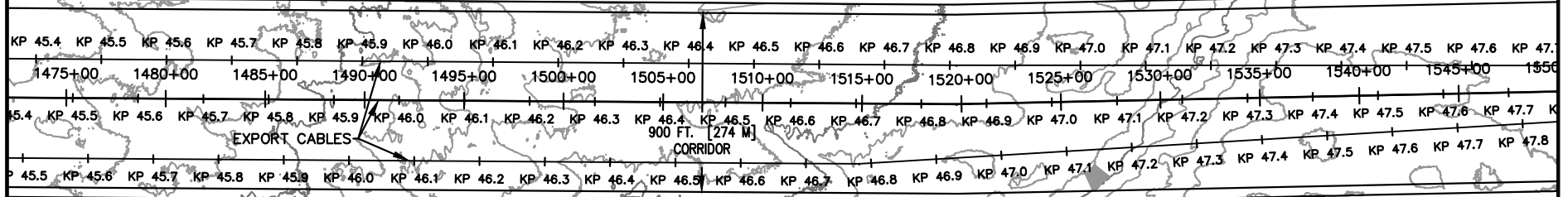
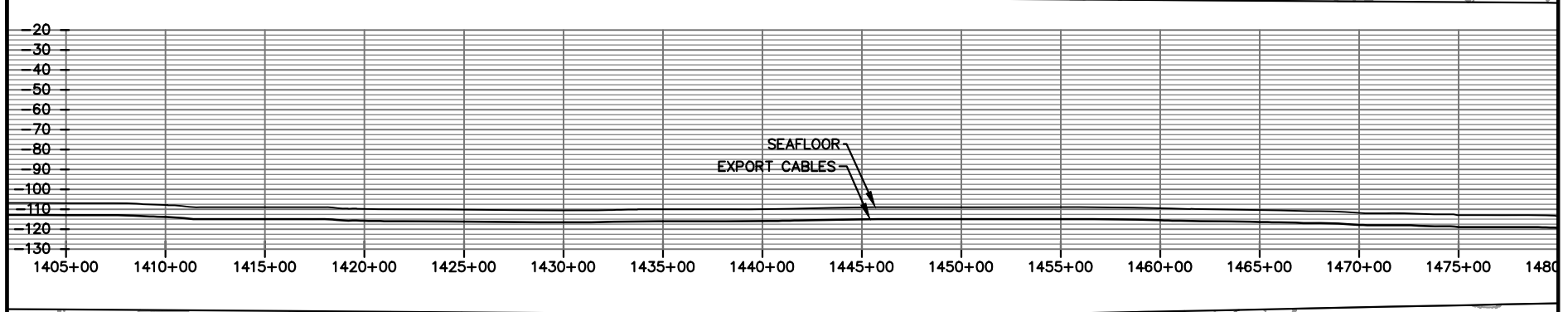
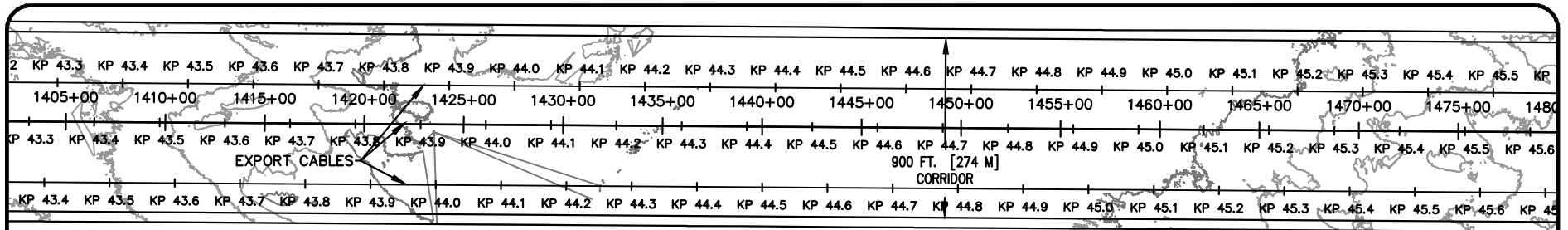
PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 0 400 800

Vertical (feet)
 0 40 80

Bar Measures 1 inch

Copyright: Tetra Tech



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 12 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 1405+00 - 1550+00

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 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

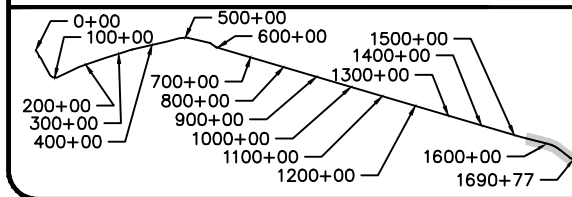
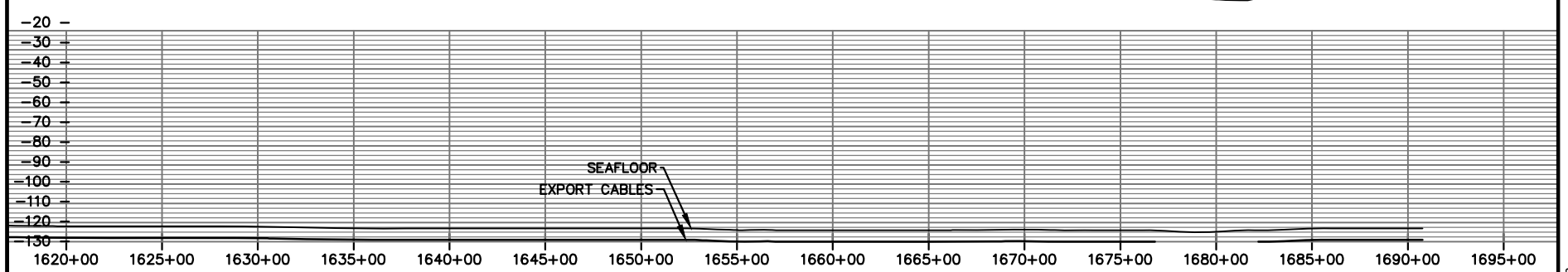
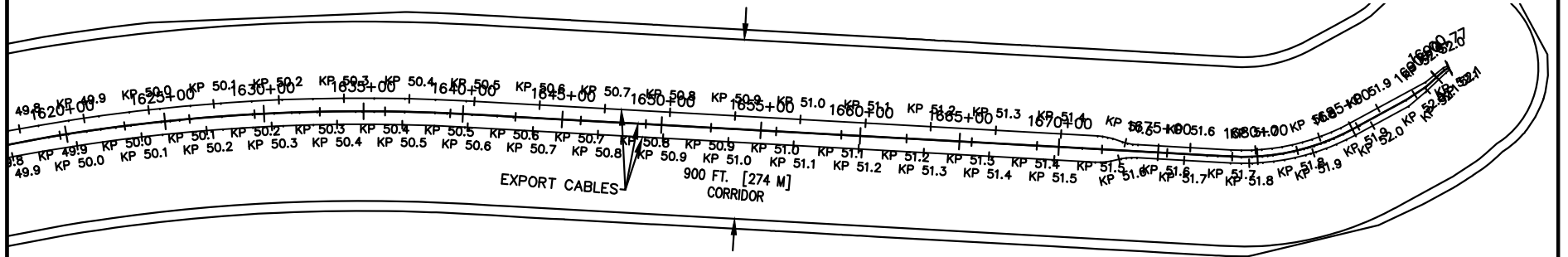
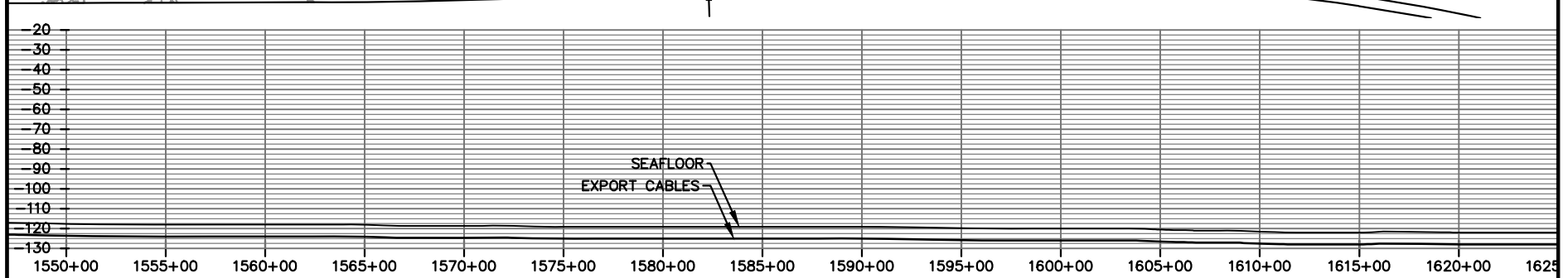
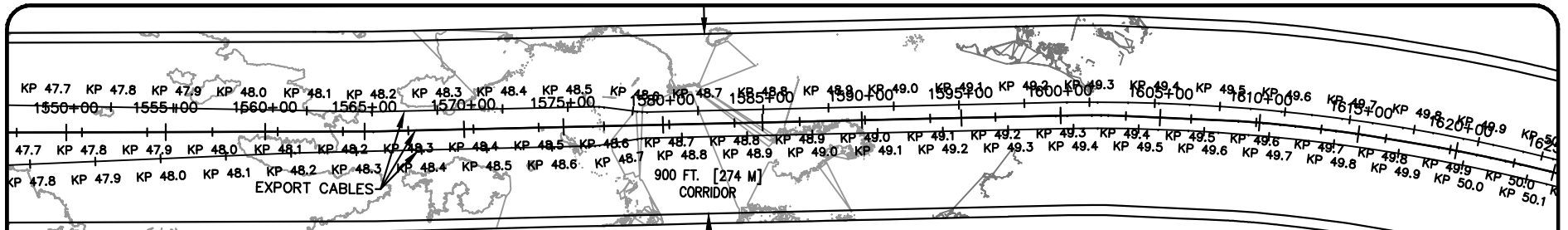
PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 Vertical (feet)



Copyright: Tetra Tech

Bar Measures 1 inch



USACE #: NAN-2022-00902-EMI
 APPLICANT NAME:
 EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 SOUTH BROOKLYN MARINE TERMINAL

SHEET 13 OF 13 DATE: 11/3/22

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2 - EXPORT CABLES
 PLAN AND PROFILES
 STA 1550+00 - 1690+77

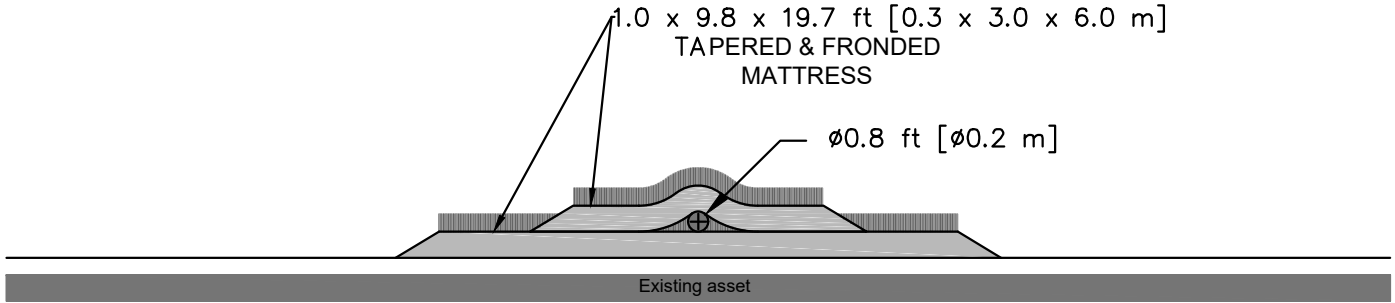
WWW.TETRATECH.COM
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 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

PROJ: 194-1247-0001
 DESN: R. GIFFORD

Horizontal (feet)
 Vertical (feet)

Bar Measures 1 inch

Copyright: Tetra Tech



DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION

USACE #: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 LEASE AREA OCS-A 0512 TERMINAL

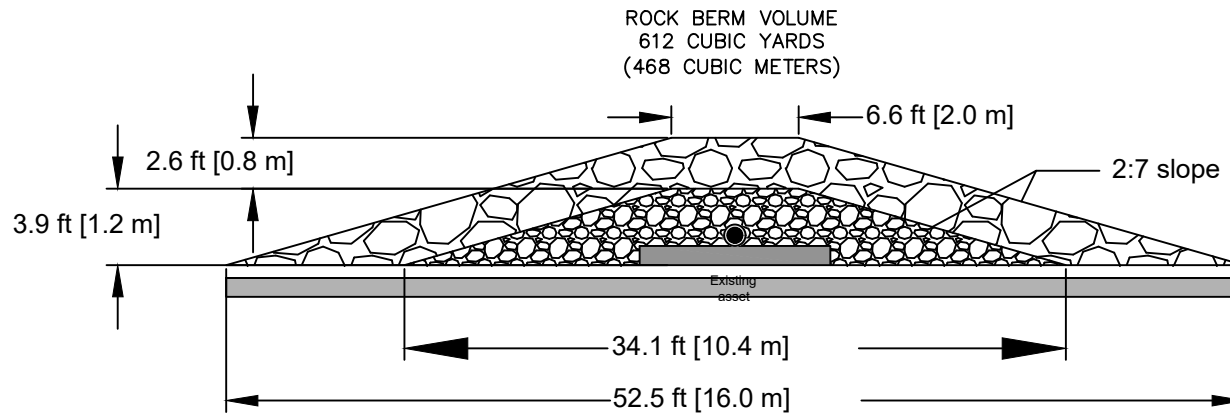
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 WWW.TETRATECH.COM
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 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2
 FRONDED MATTRESS CROSSING DETAIL (TYP.)

PROJ: 194-1247-0001
 DESN: R. GIFFORD
 NTS

Copyright: Tetra Tech



CONCEPTUAL, NOT FOR CONSTRUCTION. FINAL ROCK BERM DESIGN TO BE ENGINEERED BASED ON SITE-SPECIFIC STABILITY CALCULATIONS AND CABLE BURIAL RISK ASSESSMENT.

DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION

USACE #: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 LEASE AREA OCS-A 0512 TERMINAL



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

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

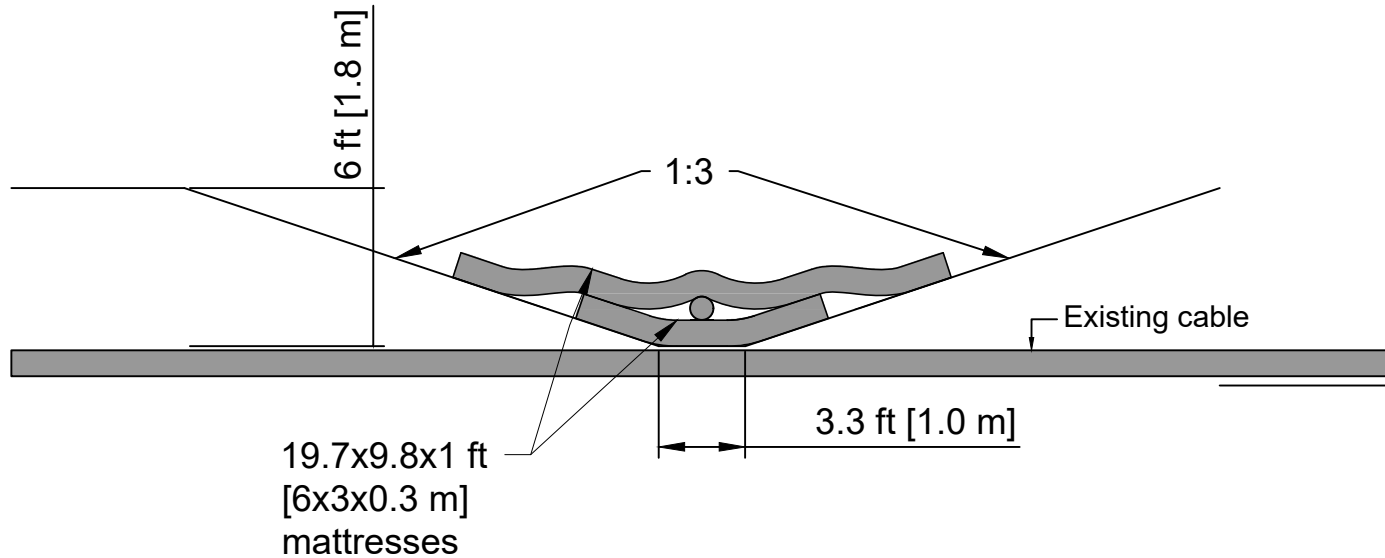
EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2
 ROCK BERM CROSSING DETAIL (TYP.)

PROJ: 194-1247-0001
 DESN: R. GIFFORD
 NTS

SHEET 1 OF 1

DATE: 11/3/22

Bar Measures 1 inch



DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION

USACE #: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 LEASE AREA OCS-A 0512 TERMINAL



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NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2
 DOUBLE MATTRESS CROSSING DETAIL (TYP.)

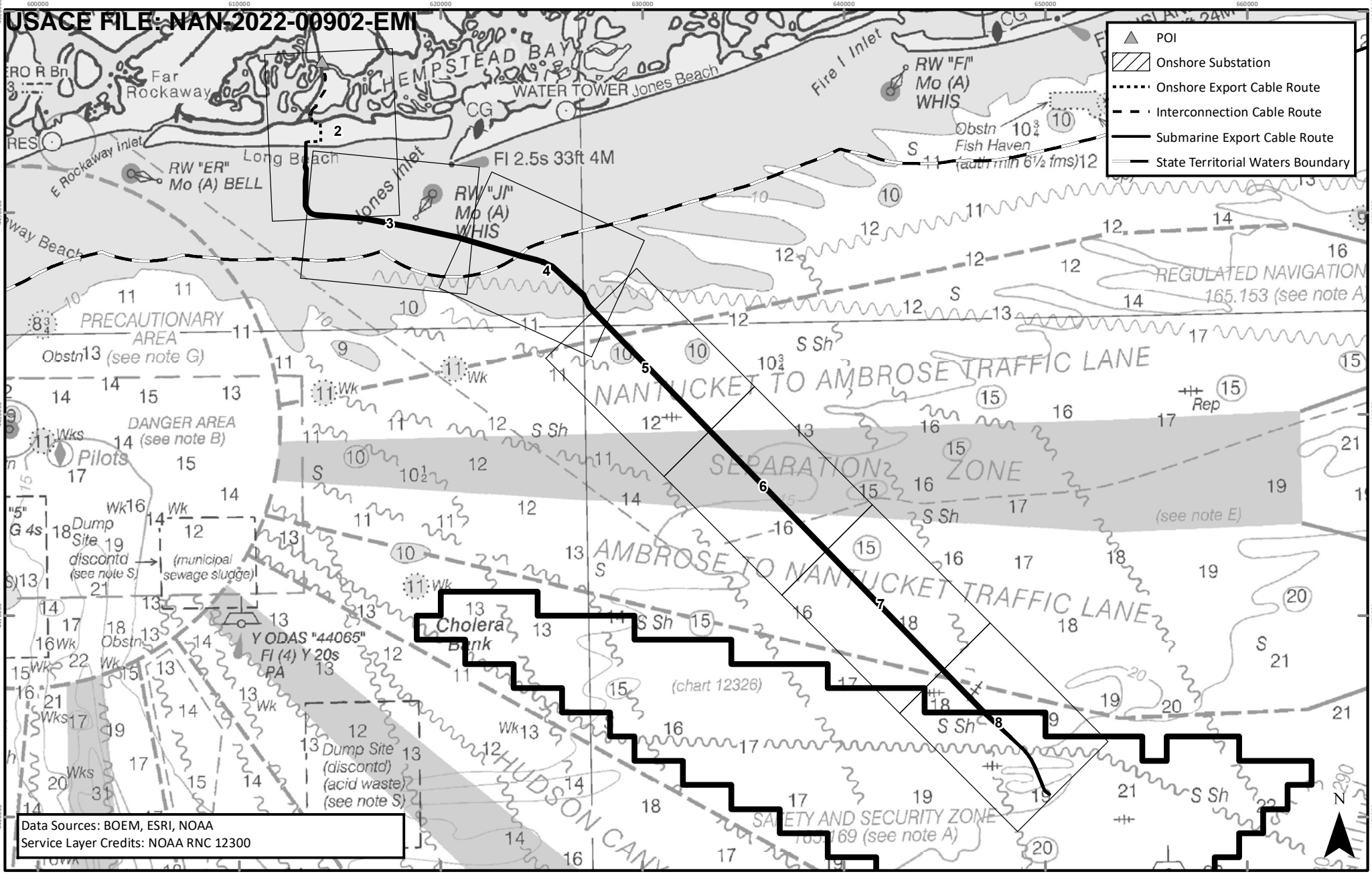
PROJ: 194-1247-0001
 DESN: R. GIFFORD

NTS

SHEET 1 OF 1

DATE: 11/3/22

Bar Measures 1 inch



Legend:

- ▲ POI
- ▨ Onshore Substation
- ⋯ Onshore Export Cable Route
- - - Interconnection Cable Route
- Submarine Export Cable Route
- State Territorial Waters Boundary

Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: NOAA RNC 12300

APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN
 SHEET OF 1 OF 8

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 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617)-443-7500
 Fax: (617)737-34809

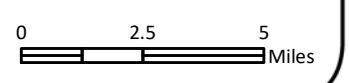
EMPIRE OFFSHORE WIND LLC

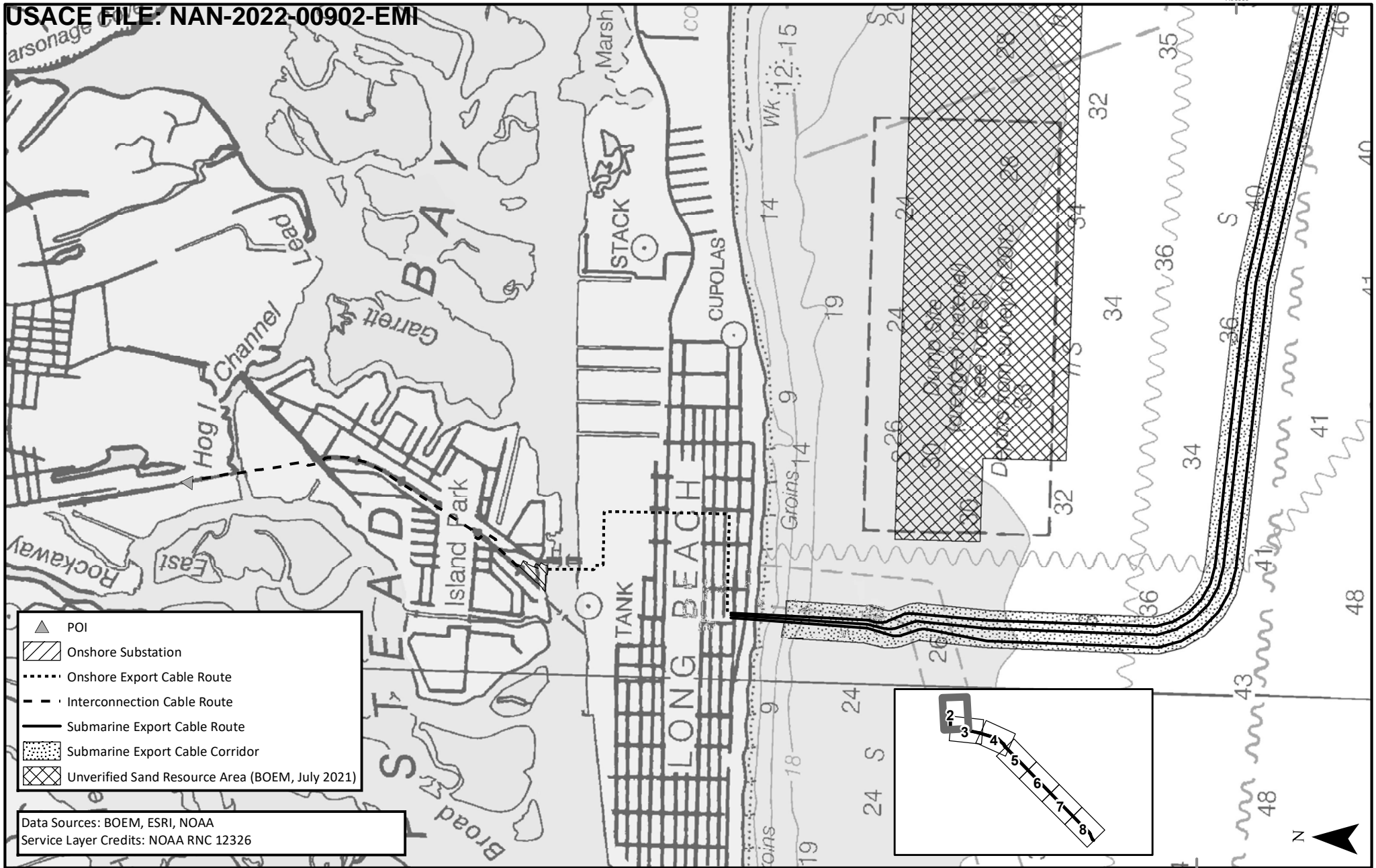
CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

REVISION 2

DATE: 11/3/2022

DESN: W. SCALES





- POI
- Onshore Substation
- Onshore Export Cable Route
- Interconnection Cable Route
- Submarine Export Cable Route
- Submarine Export Cable Corridor
- Unverified Sand Resource Area (BOEM, July 2021)

Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: NOAA RNC 12326

APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN, NASSAU COUNTY, NY
 SHEET OF 2 OF 8

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 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617)-443-7500
 Fax: (617)737-34809

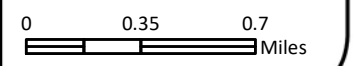
EMPIRE OFFSHORE WIND LLC

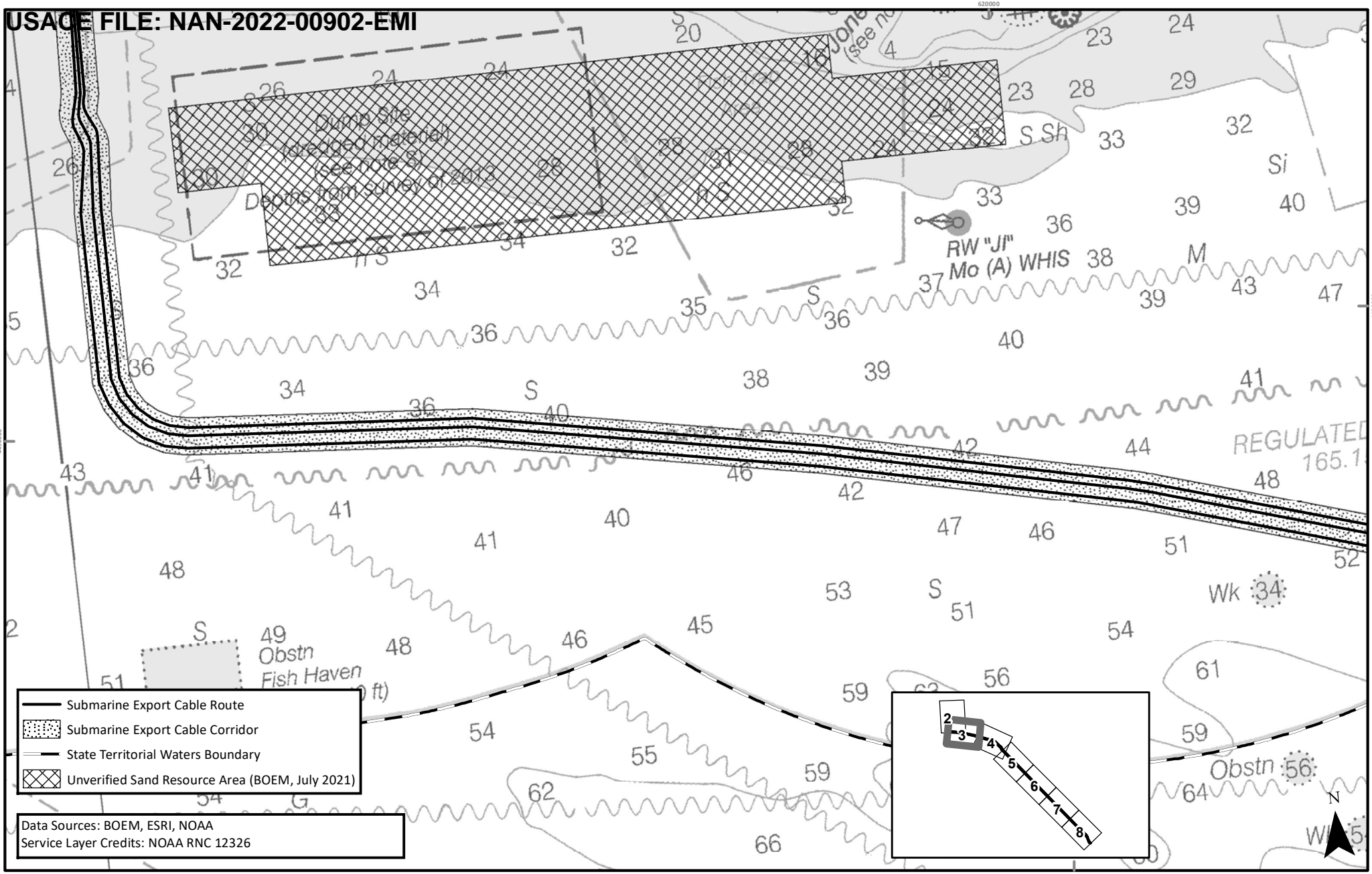
CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

REVISION 2

DATE: 11/3/2022

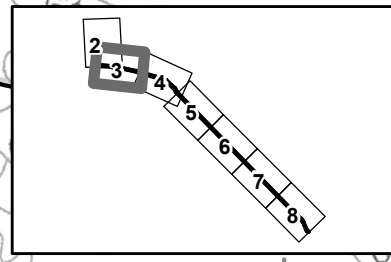
DESN: W. SCALES





- Submarine Export Cable Route
- Submarine Export Cable Corridor
- State Territorial Waters Boundary
- Unverified Sand Resource Area (BOEM, July 2021)

Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: NOAA RNC 12326



APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN
 SHEET OF 3 OF 8

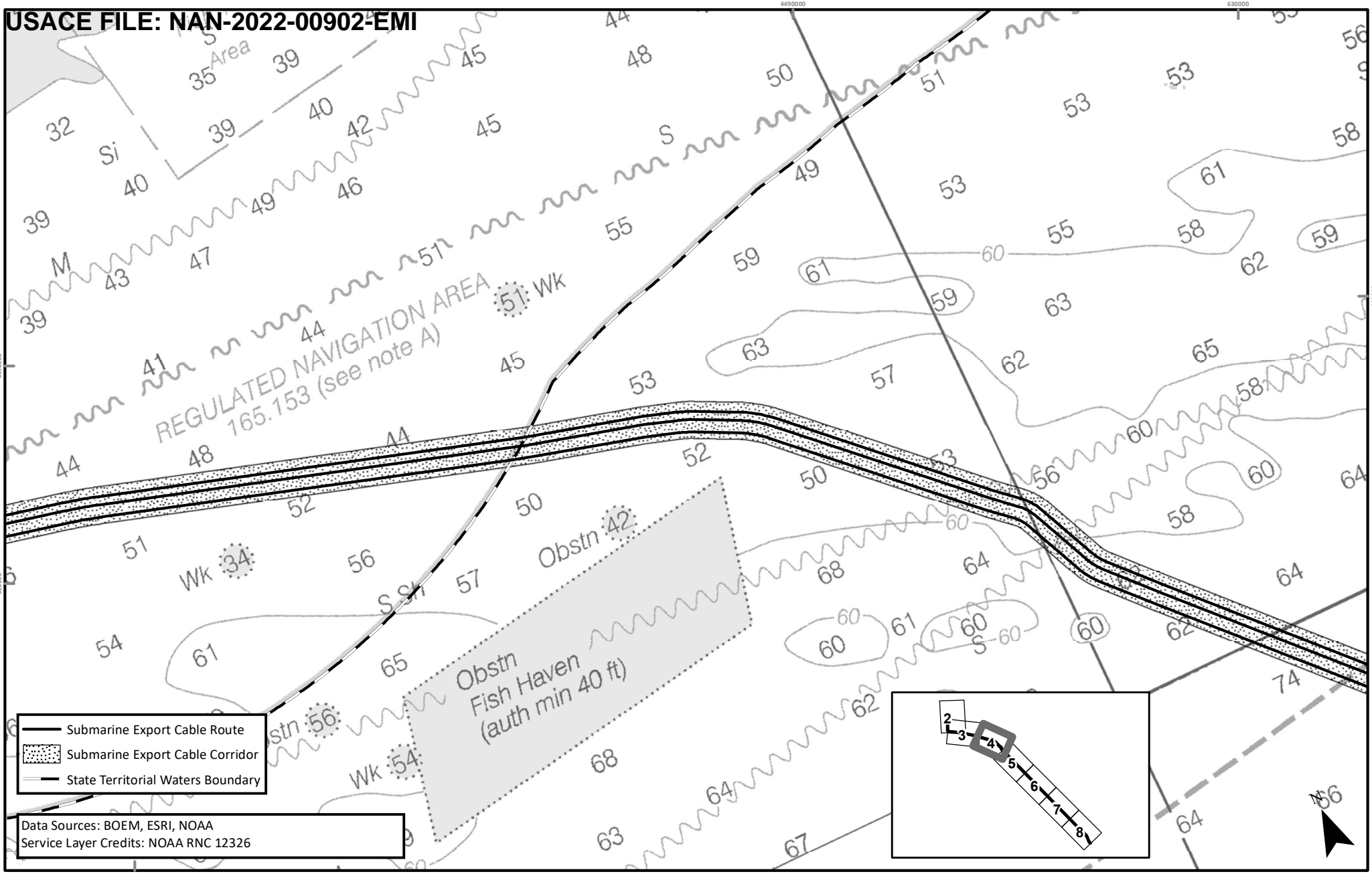
TETRA TECH
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617)-443-7500
 Fax: (617)737-34809

EMPIRE OFFSHORE WIND LLC

CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

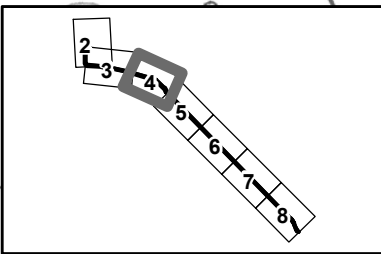
REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES

 0 0.35 0.7 Miles



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- State Territorial Waters Boundary

Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: NOAA RNC 12326



APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN
 SHEET OF 4 OF 8

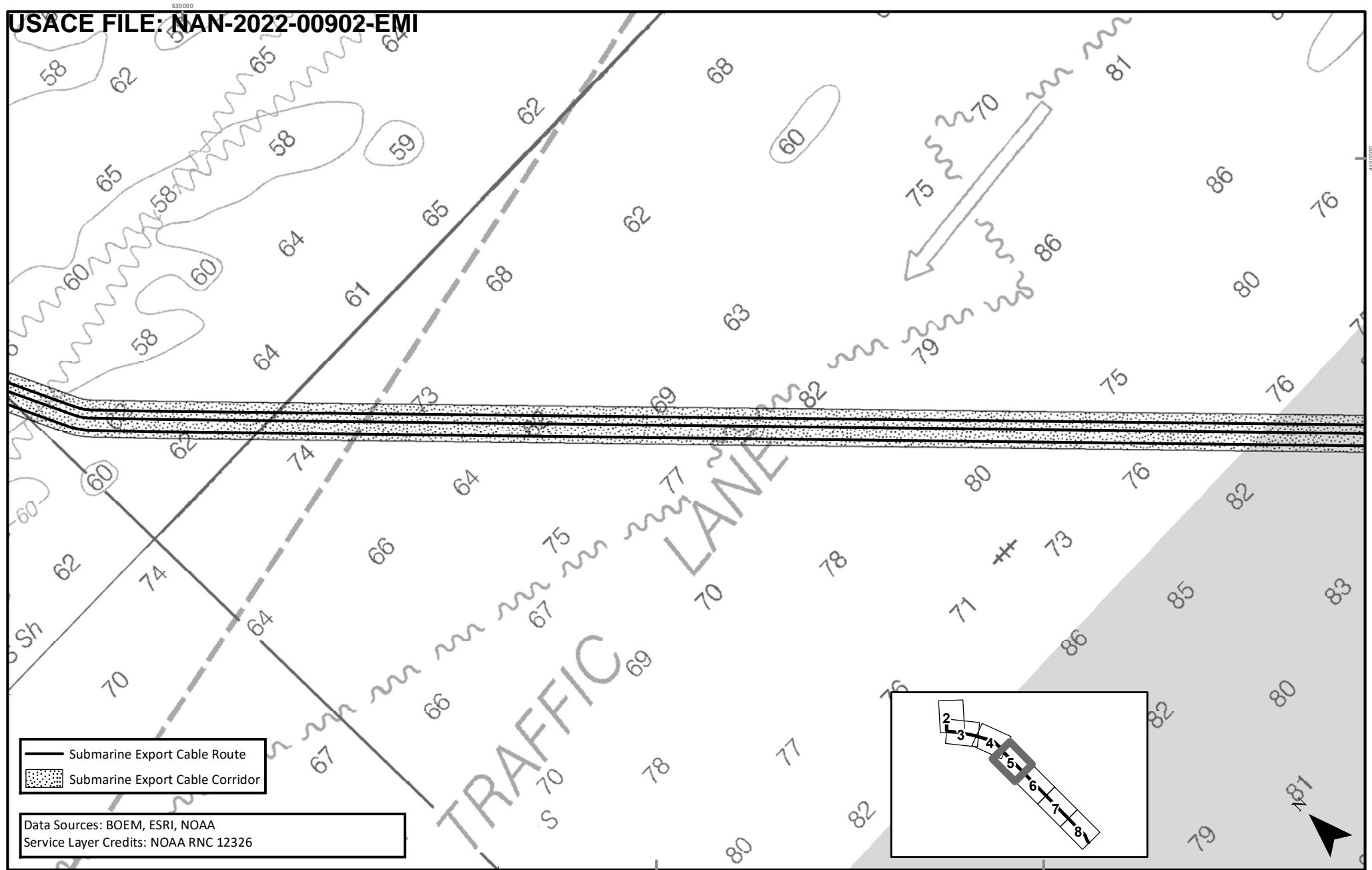
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EMPIRE OFFSHORE WIND LLC

CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES

 0 0.35 0.7 Miles



— Submarine Export Cable Route
 [Shaded Area] Submarine Export Cable Corridor

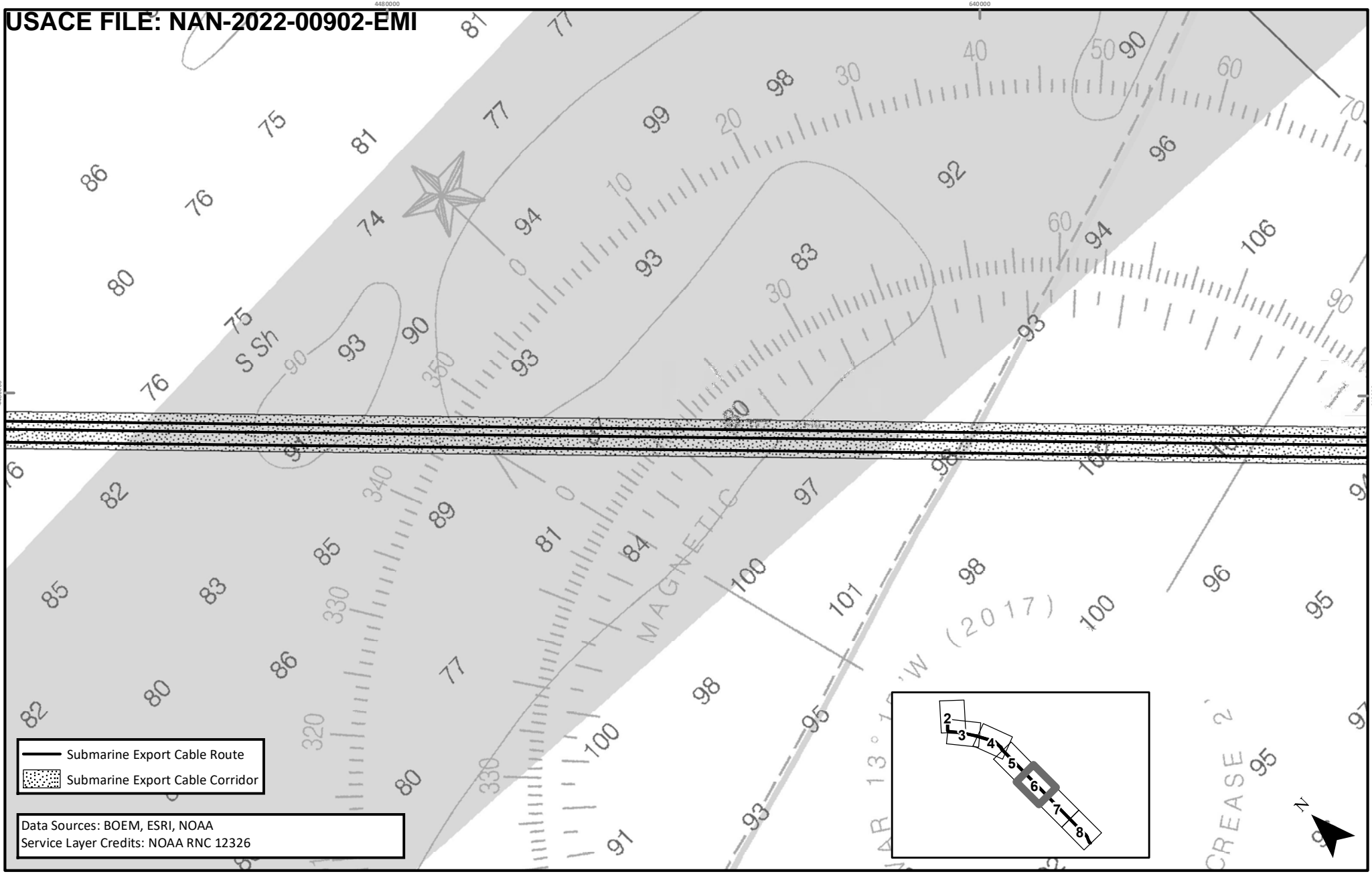
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 Service Layer Credits: NOAA RNC 12326

APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN
 SHEET OF 5 OF 8

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 WWW.TETRATECH.COM
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EMPIRE OFFSHORE WIND LLC
 CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 0.35 0.7
 [Scale Bar] Miles



— Submarine Export Cable Route
 [Dotted Pattern] Submarine Export Cable Corridor

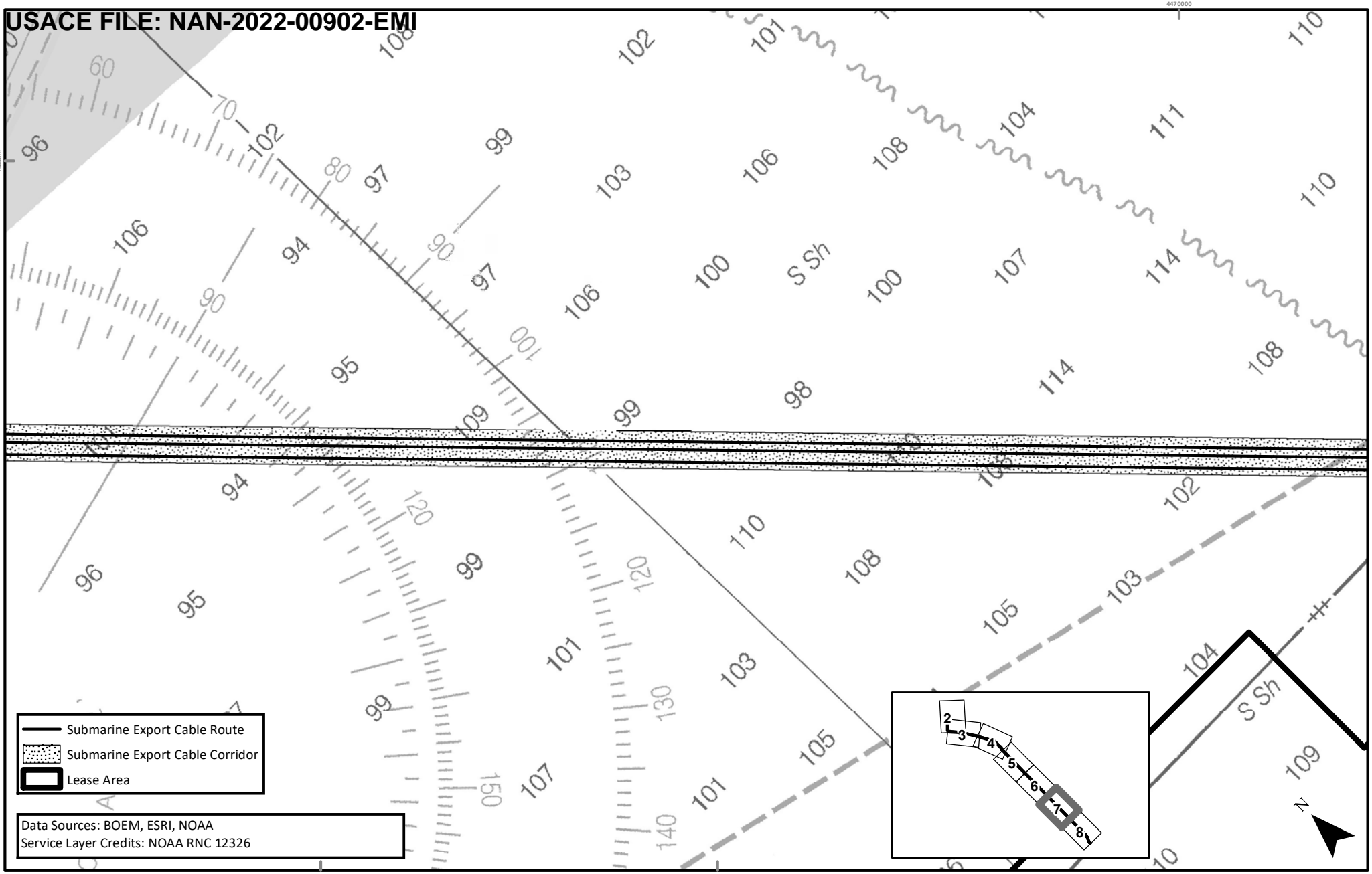
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APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN
 SHEET OF 6 OF 8

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EMPIRE OFFSHORE WIND LLC
 CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 0.35 0.7 Miles



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- Lease Area

Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: NOAA RNC 12326

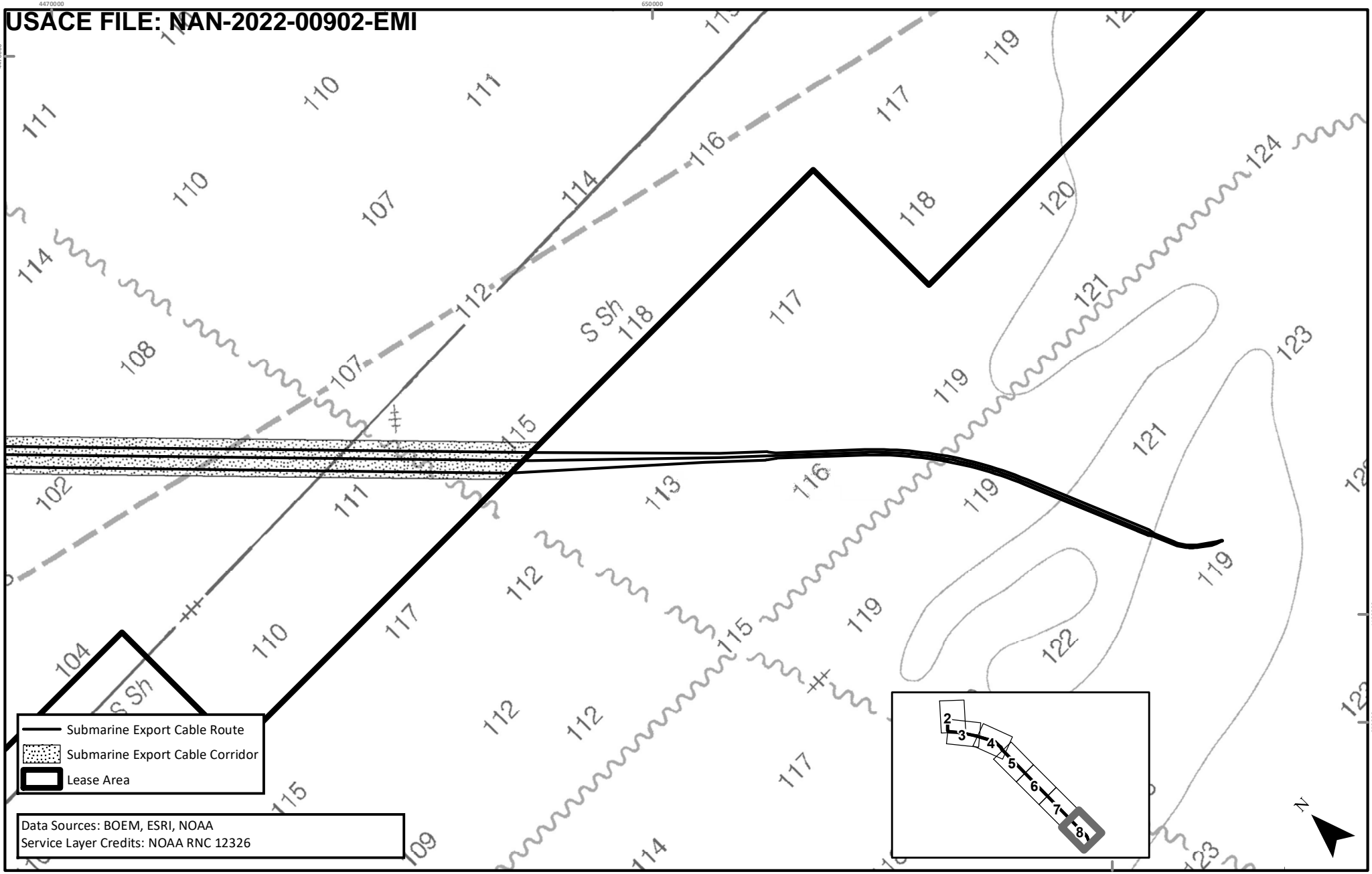
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 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN
 SHEET OF 7 OF 8

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EMPIRE OFFSHORE WIND LLC
 CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

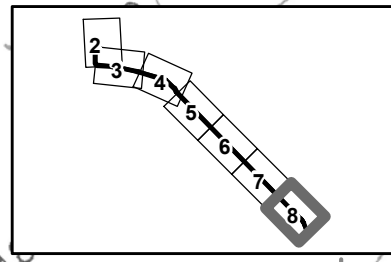
REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES

 0 0.35 0.7 Miles



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- Lease Area

Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: NOAA RNC 12326



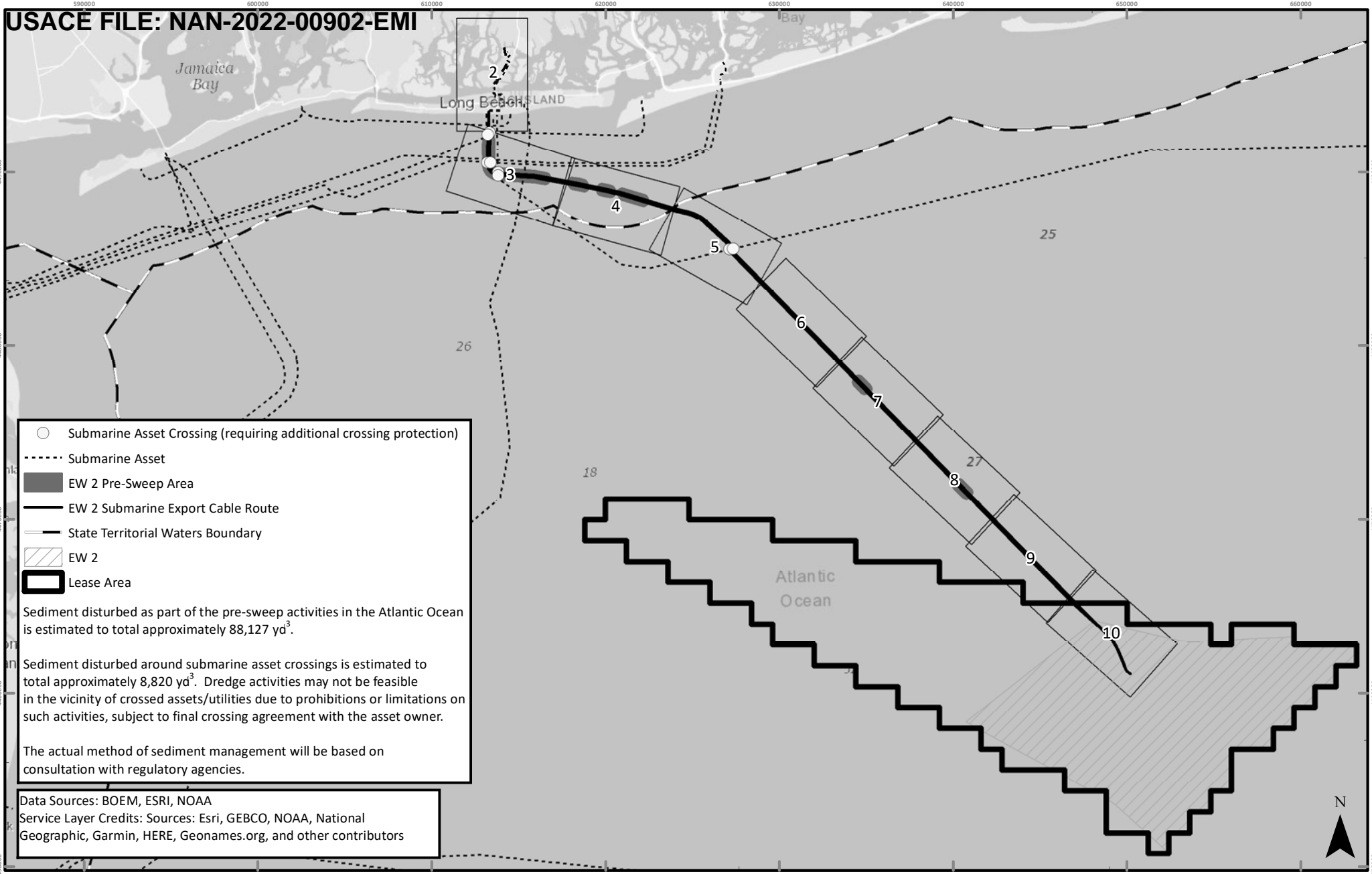
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 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN
 SHEET OF 8 OF 8

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EMPIRE OFFSHORE WIND LLC
 CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES

 0 0.35 0.7 Miles



APPLICATION NUMBER: NAN-2022-00902-EMI

APPLICANT NAME: EMPIRE OFFSHORE WIND LLC

PROPOSED PROJECT: EMPIRE WIND 2 PROJECT

LOCATION:

SHEET 1 OF 10



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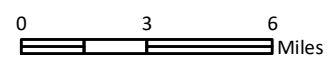
EMPIRE OFFSHORE WIND LLC

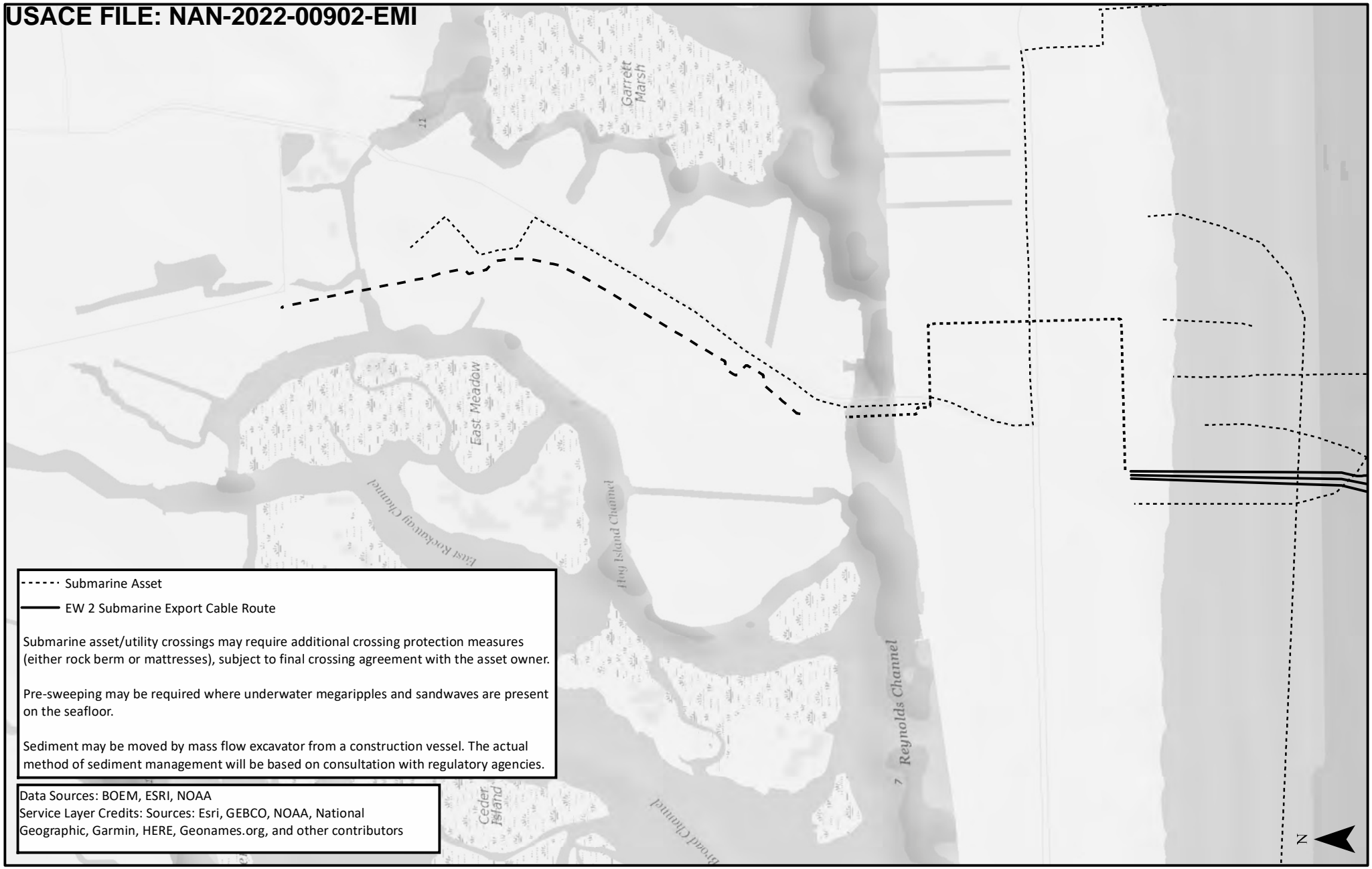
PROJECT VICINITY

REVISION 2

DATE: 11/3/2022

DESN: W. SCALES





----- Submarine Asset
 ——— EW 2 Submarine Export Cable Route

Submarine asset/utility crossings may require additional crossing protection measures (either rock berm or mattresses), subject to final crossing agreement with the asset owner.

Pre-sweeping may be required where underwater megaripples and sandwaves are present on the seafloor.

Sediment may be moved by mass flow excavator from a construction vessel. The actual method of sediment management will be based on consultation with regulatory agencies.

Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: NASSAU COUNTY
 SHEET 2 OF 10

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 BOSTON, MA 02109
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 Fax: (617)737-34809

EMPIRE OFFSHORE WIND LLC

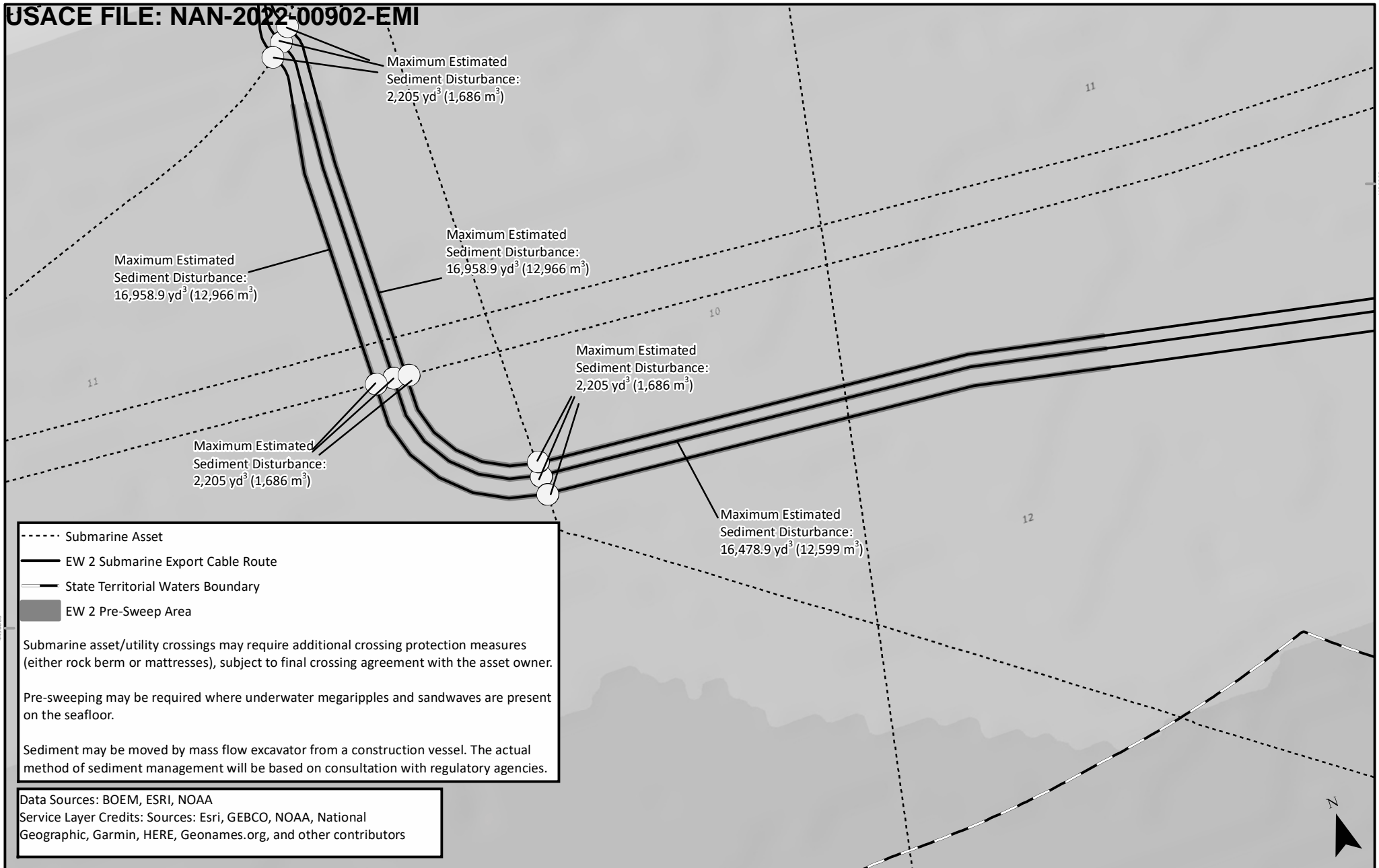
PROJECT VICINITY

REVISION 2

DATE: 11/3/2022

DESN: W. SCALES

0 0.25 0.5 Miles



- - - - Submarine Asset
 ——— EW 2 Submarine Export Cable Route
 ——— State Territorial Waters Boundary
 ■ EW 2 Pre-Sweep Area

Submarine asset/utility crossings may require additional crossing protection measures (either rock berm or mattresses), subject to final crossing agreement with the asset owner.

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APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 3 OF 10


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 BOSTON, MA 02109
 Phone: (617)-443-7500
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EMPIRE OFFSHORE WIND LLC

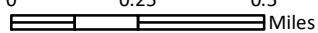
PROJECT VICINITY

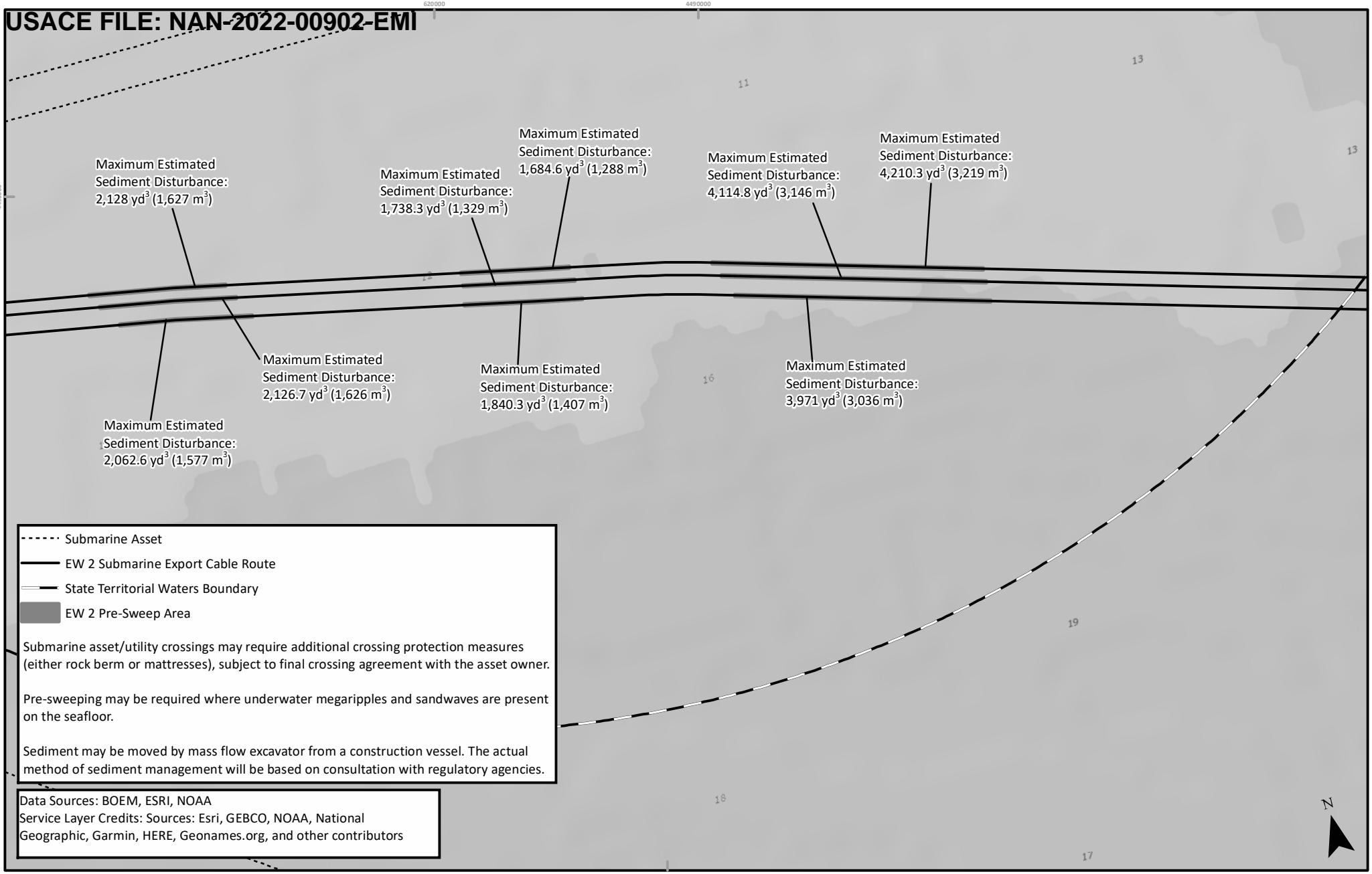
REVISION 2

DATE: 11/3/2022

DESN: W. SCALES

0 0.25 0.5 Miles





- - - - Submarine Asset
 ——— EW 2 Submarine Export Cable Route
 ——— State Territorial Waters Boundary
 ■ EW 2 Pre-Sweep Area

Submarine asset/utility crossings may require additional crossing protection measures (either rock berm or mattresses), subject to final crossing agreement with the asset owner.

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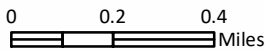
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

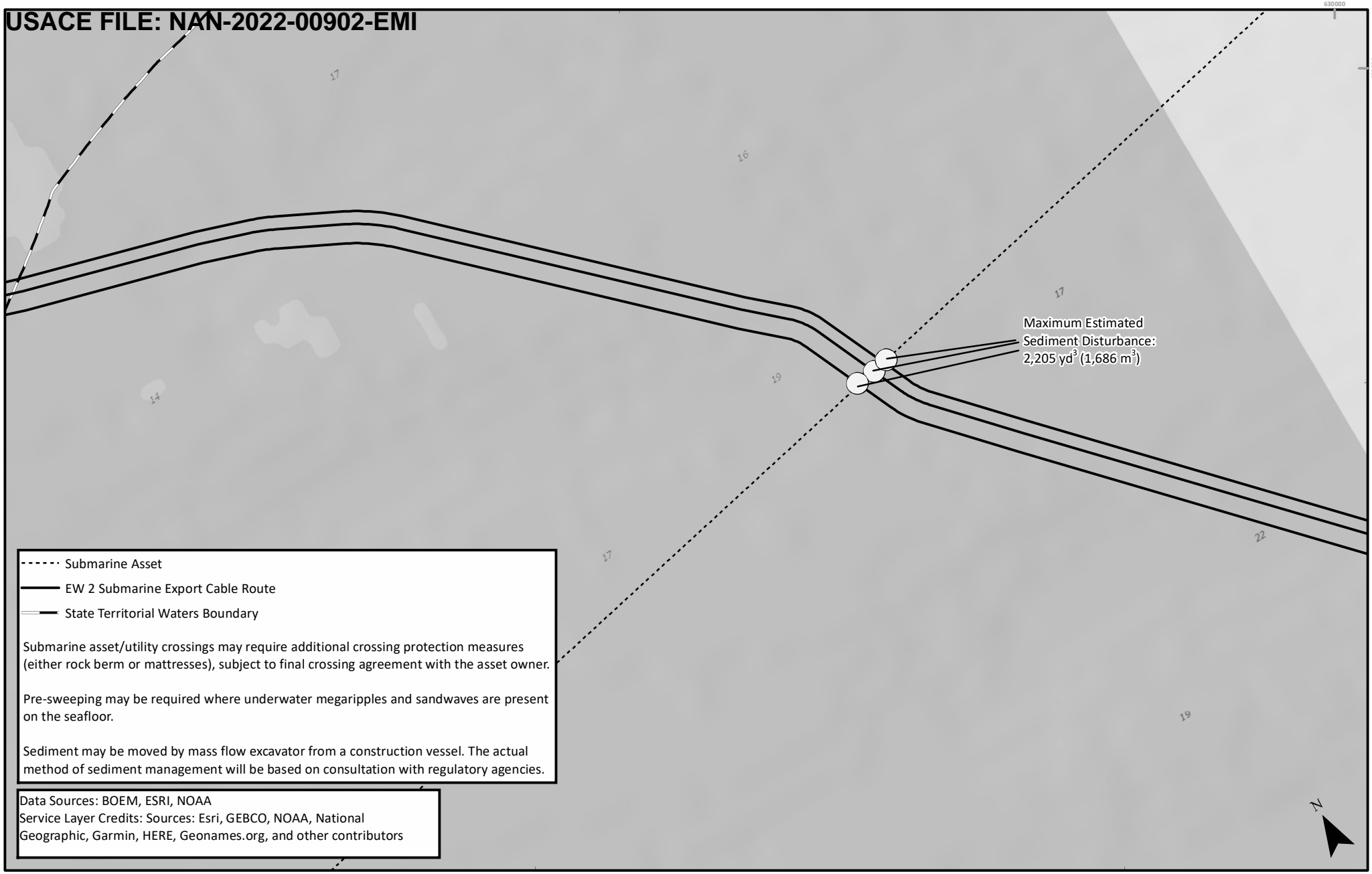


APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 4 OF 10

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 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617)-443-7500
 Fax: (617)737-34809

EMPIRE OFFSHORE WIND LLC
 PROJECT VICINITY

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES




----- Submarine Asset
 ——— EW 2 Submarine Export Cable Route
 ——— State Territorial Waters Boundary

Submarine asset/utility crossings may require additional crossing protection measures (either rock berm or mattresses), subject to final crossing agreement with the asset owner.

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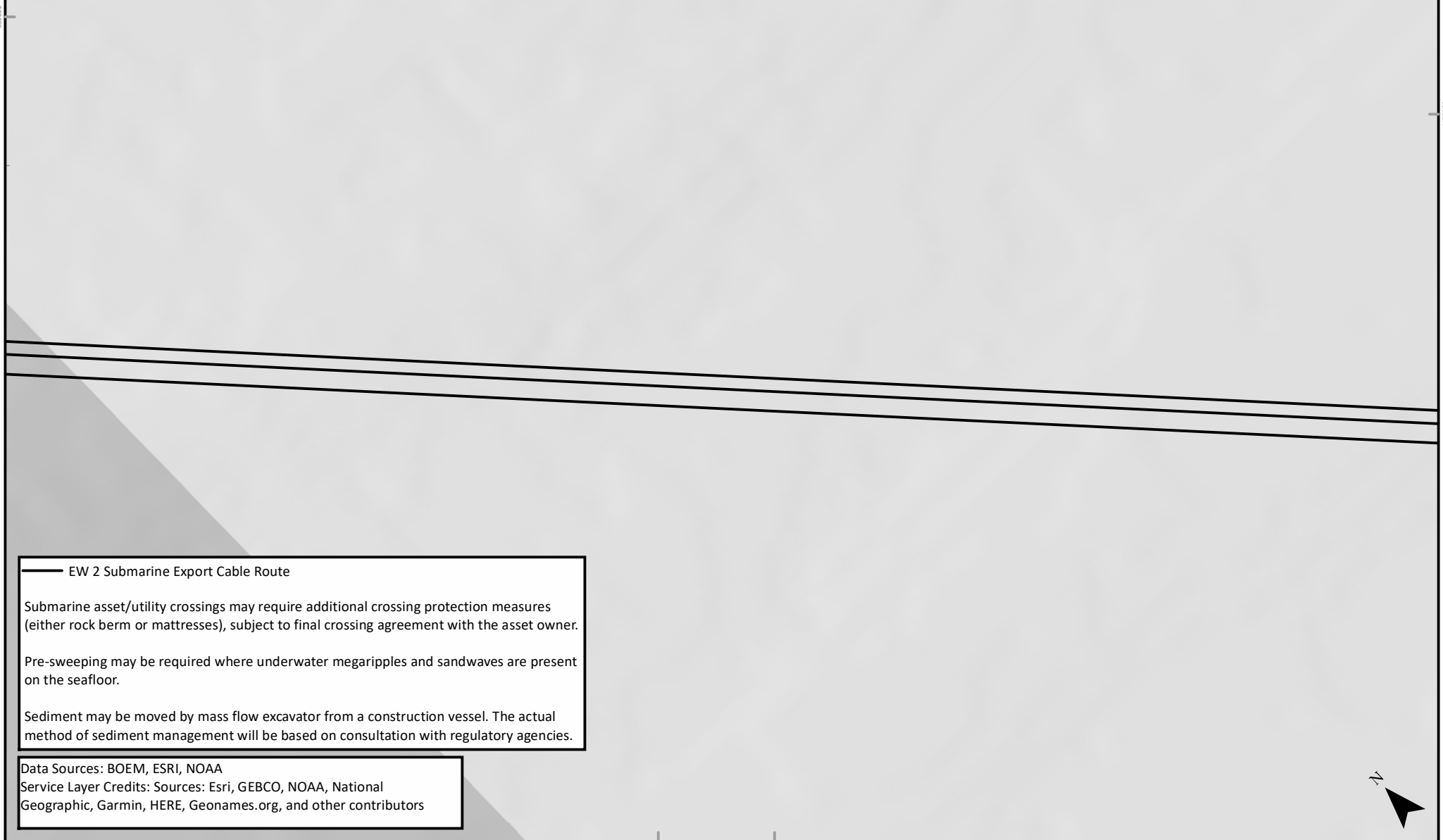
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 5 OF 10

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 Fax: (617)737-34809

EMPIRE OFFSHORE WIND LLC
 PROJECT VICINITY

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 0.2 0.4 Miles



— EW 2 Submarine Export Cable Route

Submarine asset/utility crossings may require additional crossing protection measures (either rock berm or mattresses), subject to final crossing agreement with the asset owner.

Pre-sweeping may be required where underwater megaripples and sandwaves are present on the seafloor.

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APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 6 OF 10

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EMPIRE OFFSHORE WIND LLC
 PROJECT VICINITY



REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 0.25 0.5 Miles

4430000

Maximum Estimated
Sediment Disturbance:
2,206.5 yd³ (1,687 m³)

Maximum Estimated
Sediment Disturbance:
2,332 yd³ (1,783 m³)

Maximum Estimated
Sediment Disturbance:
2,016.9 yd³ (1,542 m³)

-  EW 2 Submarine Export Cable Route
-  EW 2 Pre-Sweep Area

Submarine asset/utility crossings may require additional crossing protection measures (either rock berm or mattresses), subject to final crossing agreement with the asset owner.

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APPLICATION NUMBER: NAN-2022-00902-EMI

APPLICANT NAME: EMPIRE OFFSHORE WIND LLC

PROPOSED PROJECT: EMPIRE WIND 2 PROJECT

LOCATION: ATLANTIC OCEAN

SHEET 7 OF 10



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Phone: (617)-443-7500
Fax: (617)737-34809

EMPIRE OFFSHORE WIND LLC

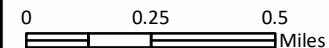
PROJECT VICINITY

REVISION 2

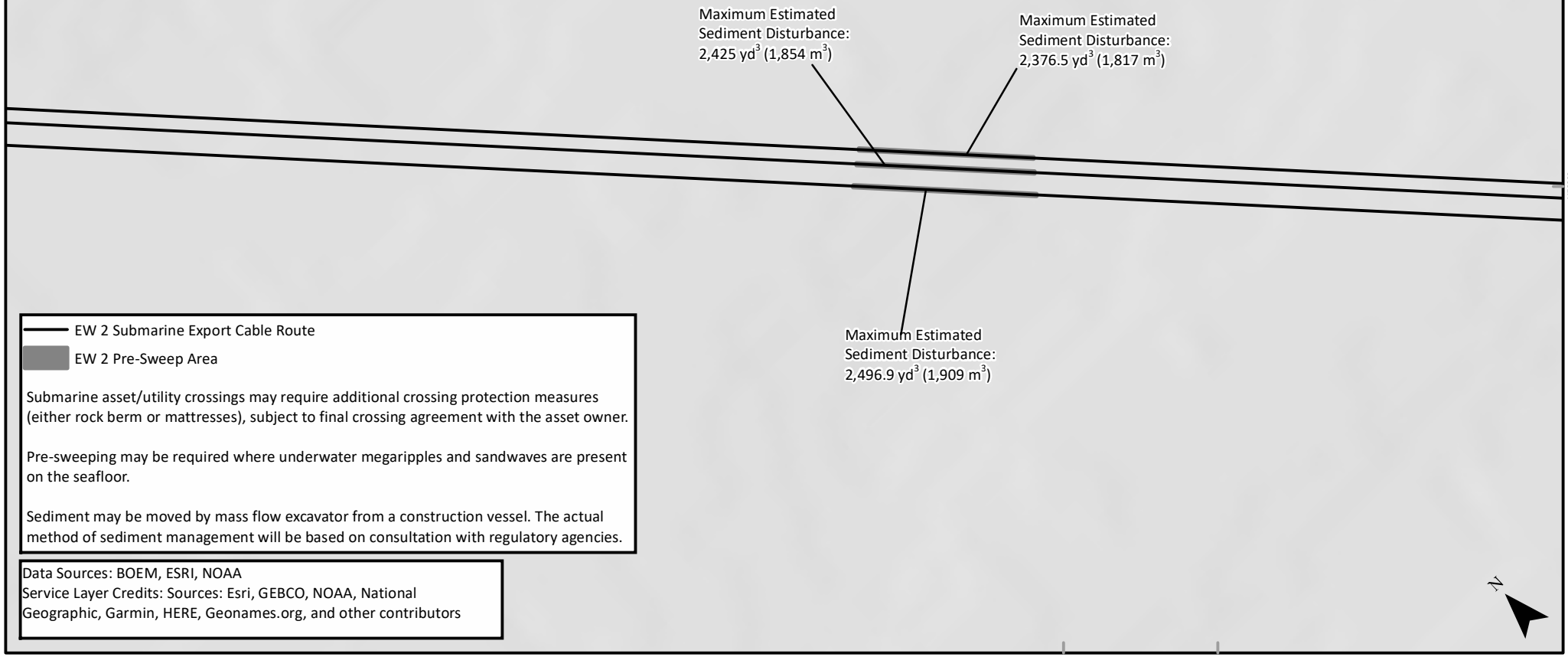
DATE: 11/3/2022

DESN:

W. SCALES



USACE FILE: NAN-2022-00902-EMI



EW 2 Submarine Export Cable Route
EW 2 Pre-Sweep Area

Submarine asset/utility crossings may require additional crossing protection measures (either rock berm or mattresses), subject to final crossing agreement with the asset owner.

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APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 8 OF 10

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EMPIRE OFFSHORE WIND LLC
 PROJECT VICINITY

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 0.2 0.4 Miles

5477000

29

— EW 2 Submarine Export Cable Route
 □ Lease Area

Submarine asset/utility crossings may require additional crossing protection measures (either rock berm or mattresses), subject to final crossing agreement with the asset owner.

Pre-sweeping may be required where underwater megaripples and sandwaves are present on the seafloor.

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Data Sources: BOEM, ESRI, NOAA
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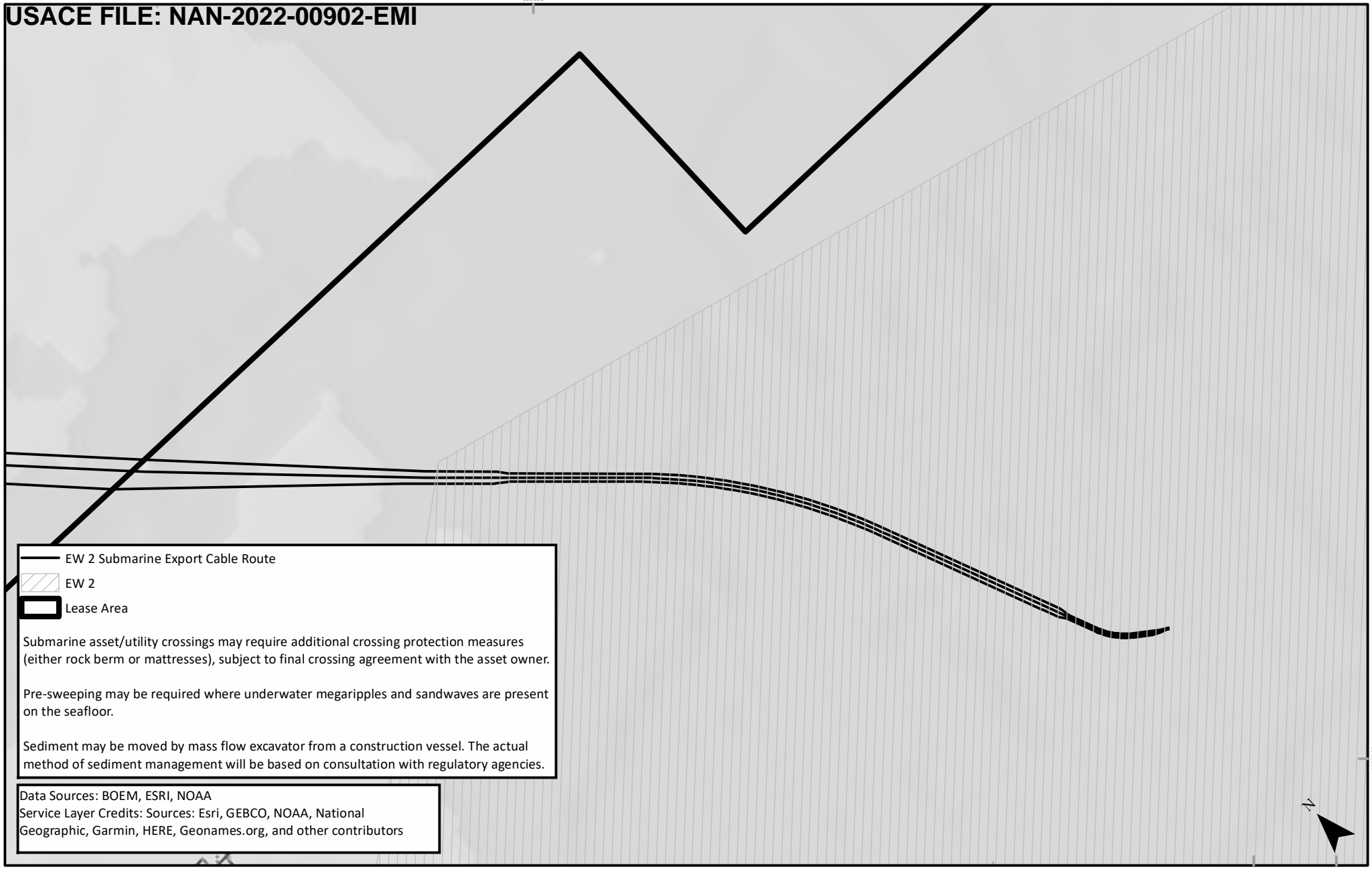





APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 9 OF 10

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EMPIRE OFFSHORE WIND LLC
 PROJECT VICINITY

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 0.2 0.4 Miles



 EW 2 Submarine Export Cable Route
 EW 2
 Lease Area

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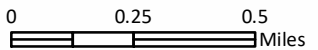
Sediment may be moved by mass flow excavator from a construction vessel. The actual method of sediment management will be based on consultation with regulatory agencies.

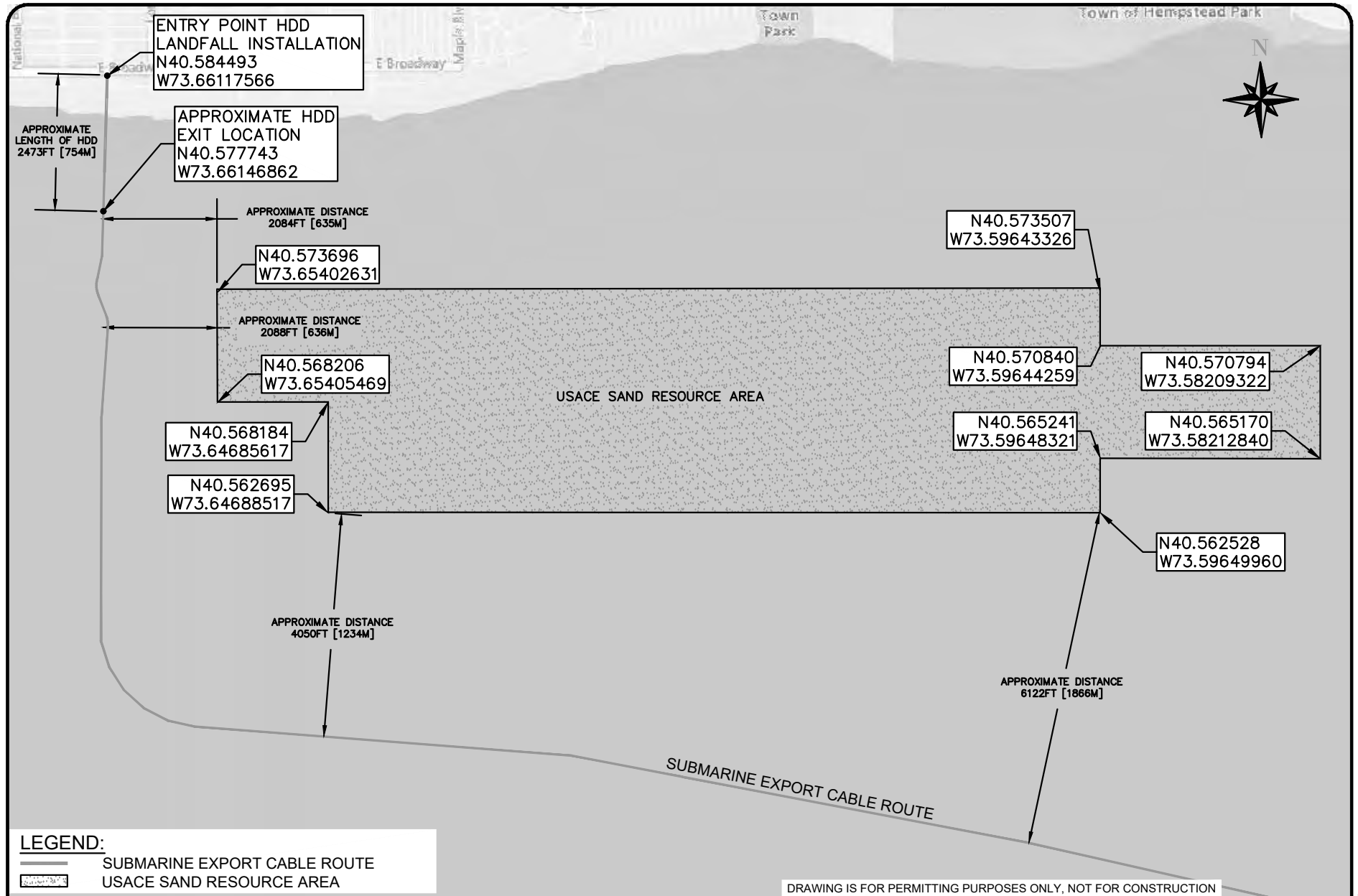
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APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 10 OF 10

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 WWW.TETRATECH.COM
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EMPIRE OFFSHORE WIND LLC
 PROJECT VICINITY

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES

 0 0.25 0.5 Miles



LEGEND:

- SUBMARINE EXPORT CABLE ROUTE
- USACE SAND RESOURCE AREA

DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION

USACE #: NAN-2022-00902-EMI
 APPLICANT NMAE: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT:
 EMPIRE WIND 2 PROJECT
 LOCATION:
 LEASE AREA OCS-A 0512 TERMINAL



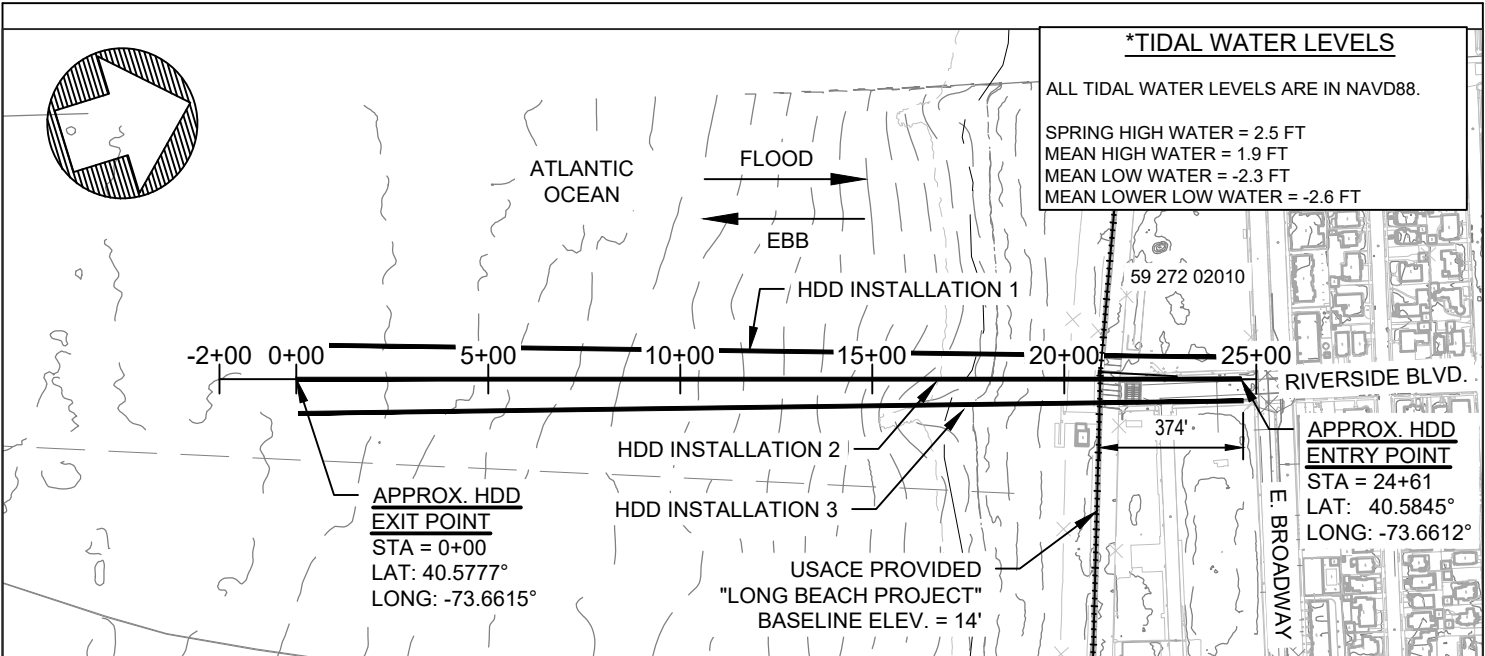
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 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

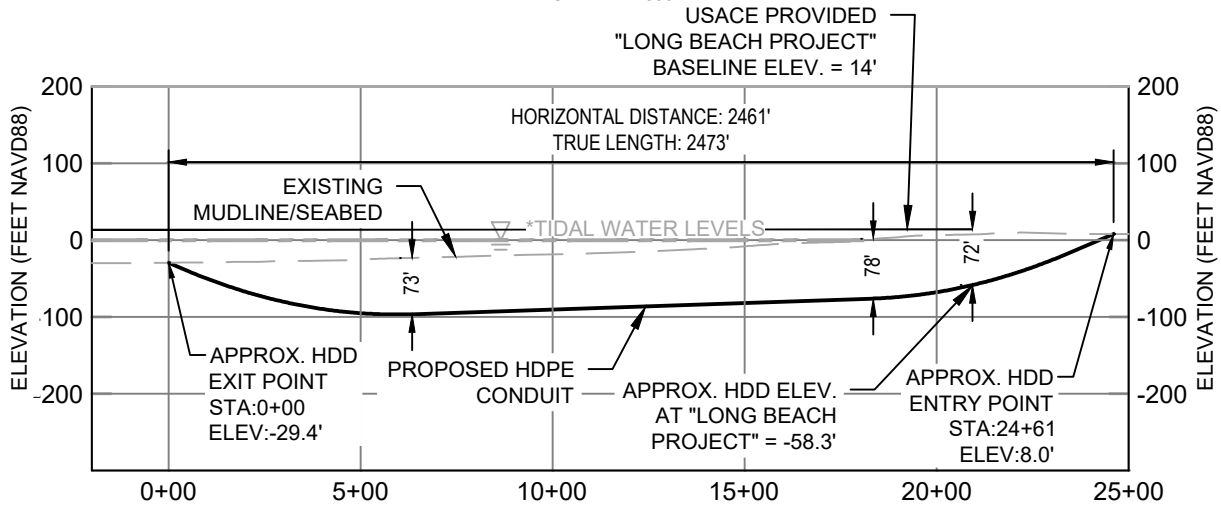
EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 2
 USACE SAND RESOURCE AREA

PROJ: 194-1247-0001
 DESN: R. GIFFORD



PLAN VIEW

SCALE: 1" = 500'



PROFILE (HDD INSTALLATION 2)

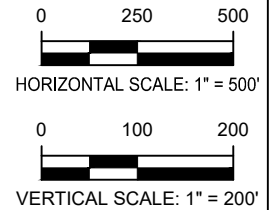
HORZ. SCALE: 1" = 500'
VERT. SCALE: 1" = 200'

NOTES:

1. PRELIMINARY HDD ALIGNMENTS SHOWN MAY BE ADJUSTED AS THE DESIGN PROGRESSES.
2. EXISTING CONTOURS ARE FROM PUBLIC SOURCES (NY GIS CLEARINGHOUSE) AND ARE NOT THE RESULT OF A CIVIL SURVEY.
3. BATHYMETRIC DATA IS FROM PUBLIC SOURCES (NOAA). ADDITIONAL SURVEY WILL BE REQUIRED TO VERIFY EXACT LOCATION OF MUDLINE.
4. HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD88.
5. CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.
6. ALL ELEVATION SHOWN IN PROFILE REPRESENT NAVD88.
7. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
8. SPRING HIGH WATER (SHW) VALUE WAS ESTIMATED BASED ON THE 2022 TIDE PREDICTIONS DATA FROM NOAA STATION 8516881, ATLANTIC BEACH, NY.
9. FLOOD/EBB FLOW DIRECTIONS ARE APPROXIMATED FROM PUBLIC DATA.

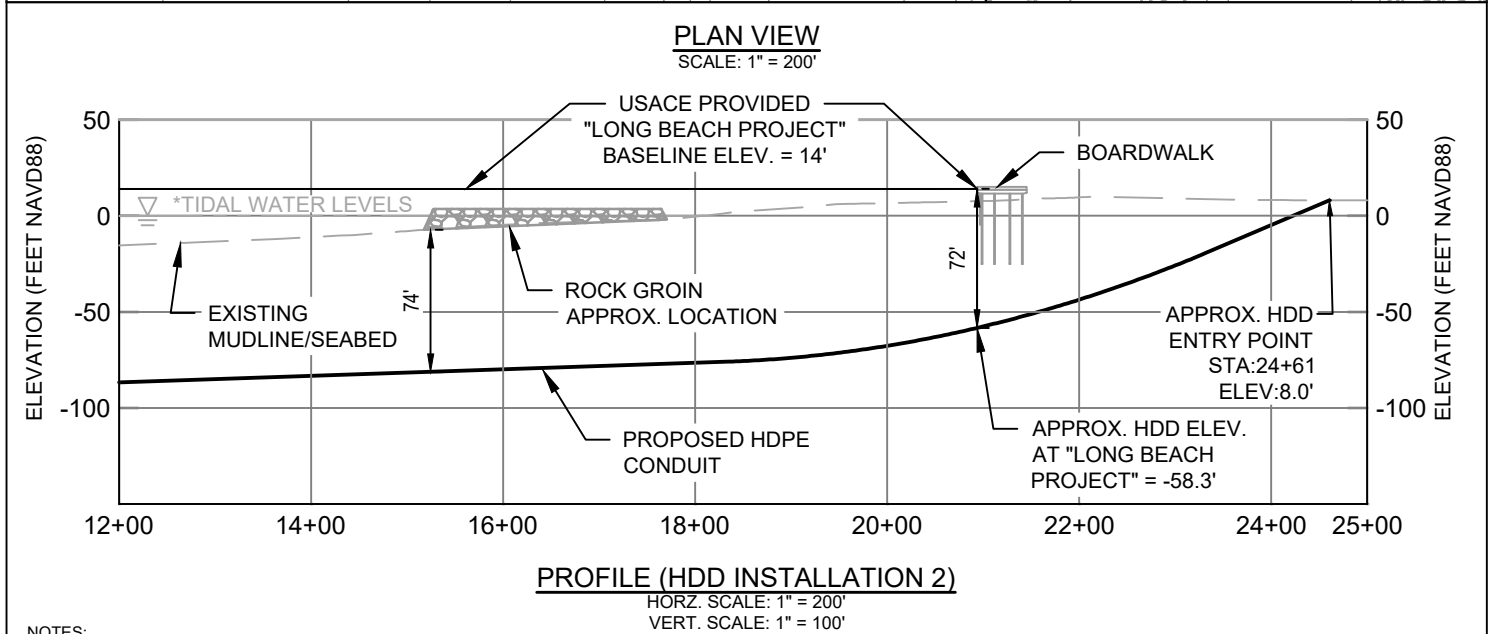
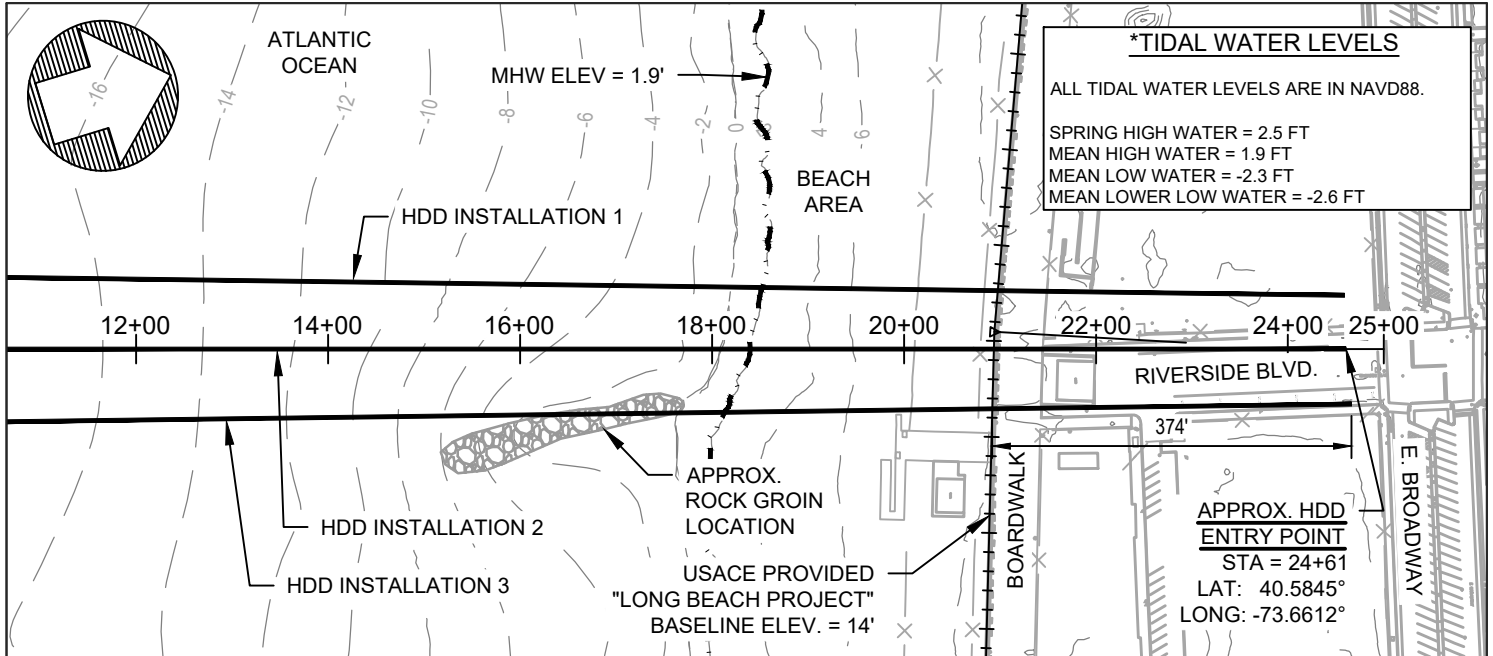
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Title: CABLE LANDFALL HDD PLAN & PROFILE		Location: 99 RIVERSIDE BLVD LONG BEACH, NY		<p>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</p>				
Applicant Name: EMPIRE OFFSHORE WIND LLC.		Lat/Long: 40.577, -73.661						
Proposed Project: EMPIRE WIND 2 PROJECT		Waterbody: ATLANTIC OCEAN						
ISSUED FOR USACE APPLICATION								
Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	AS SHOWN	007	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B

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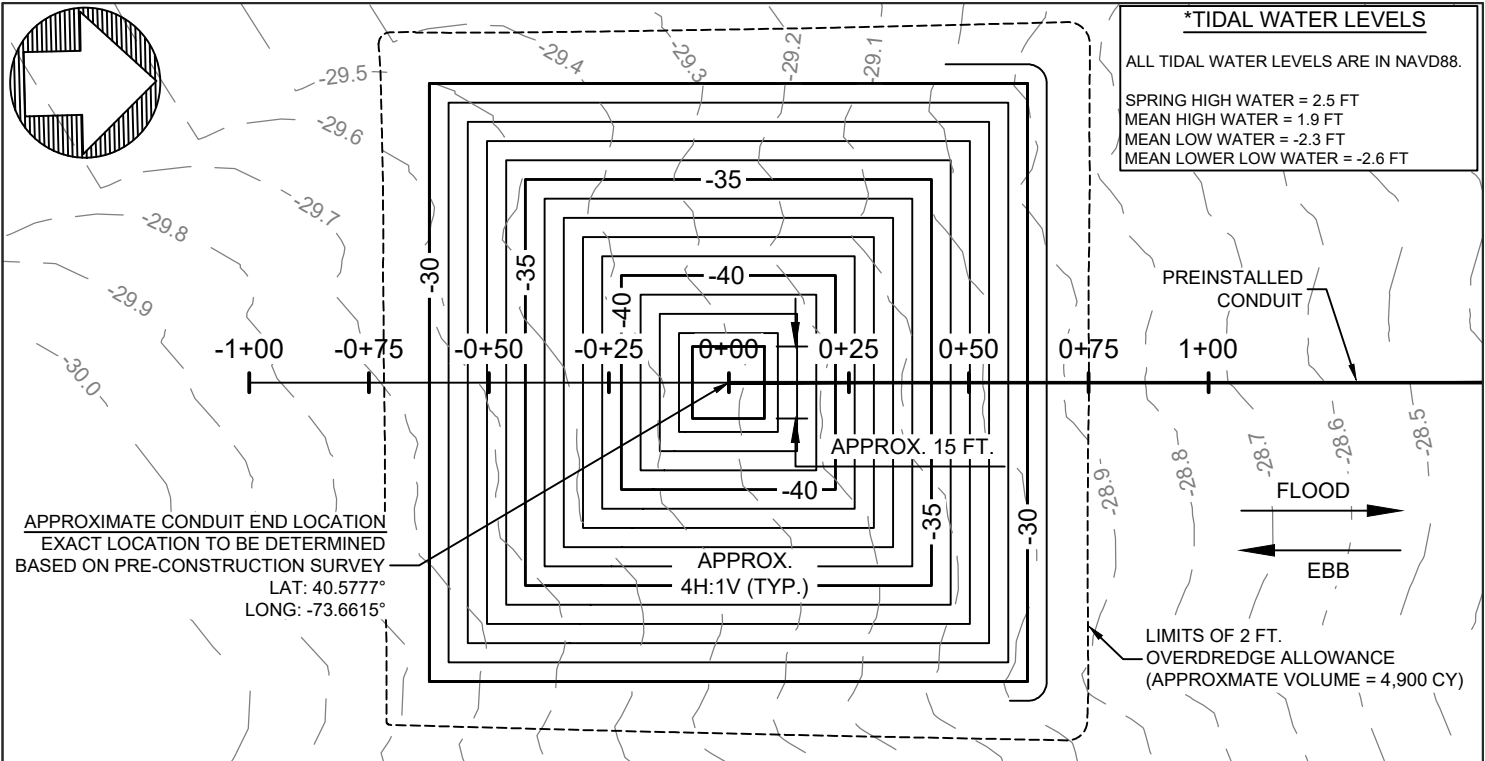
NOTES:

1. PRELIMINARY HDD ALIGNMENTS SHOWN MAY BE ADJUSTED AS THE DESIGN PROGRESSES.
2. EXISTING CONTOURS ARE FROM PUBLIC SOURCES (NY GIS CLEARINGHOUSE) AND ARE NOT THE RESULT OF A CIVIL SURVEY.
3. BATHYMETRIC DATA IS FROM PUBLIC SOURCES (NOAA). ADDITIONAL SURVEY WILL BE REQUIRED TO VERIFY EXACT LOCATION OF MUDLINE.
4. HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD88.
5. CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.
6. ALL ELEVATION SHOWN IN PROFILE REPRESENT NAVD88.
7. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
8. SPRING HIGH WATER (SHW) VALUE WAS ESTIMATED BASED ON THE 2022 TIDE PREDICTIONS DATA FROM NOAA STATION 8516881, ATLANTIC BEACH, NY.
9. FLOOD/EBB FLOW DIRECTIONS ARE APPROXIMATED FROM PUBLIC DATA.

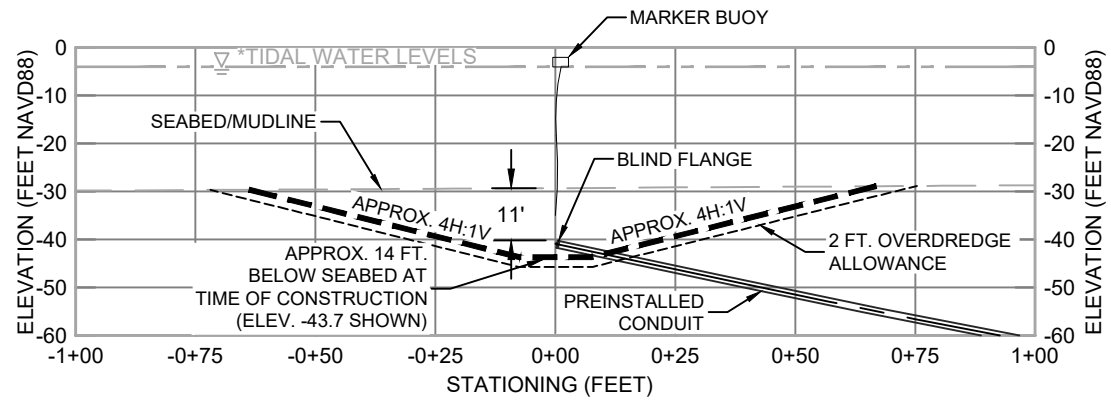
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Title: CABLE LANDFALL HDD PLAN & PROFILE		Location: 99 RIVERSIDE BLVD LONG BEACH, NY		<p>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</p>				
Applicant Name: EMPIRE OFFSHORE WIND LLC.		Lat/Long: 40.577, -73.661						
Proposed Project: EMPIRE WIND 2 PROJECT		Waterbody: ATLANTIC OCEAN						
ISSUED FOR USACE APPLICATION								
Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	AS SHOWN	007A	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B

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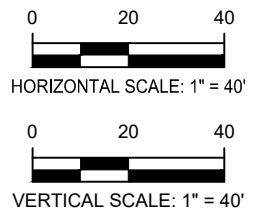
PLAN VIEW
1" = 40'



PROFILE
HORZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 40'

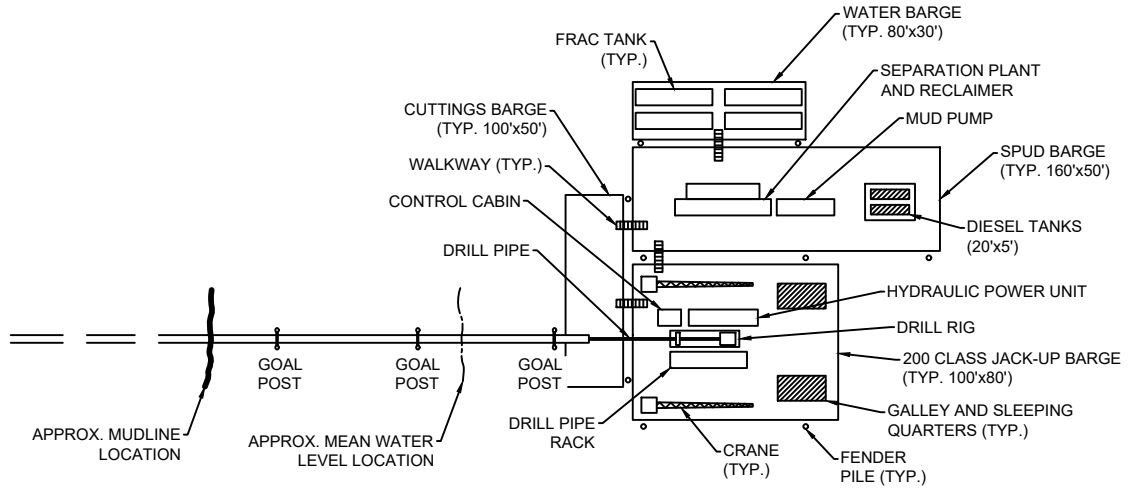
NOTES:

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. SPRING HIGH WATER (SHW) VALUE WAS ESTIMATED BASED ON THE 2022 TIDE PREDICTIONS DATA FROM NOAA STATION 8516881, ATLANTIC BEACH, NY.
 6. FLOOD/EBB FLOW DIRECTIONS ARE APPROXIMATED FROM PUBLIC DATA.
 7. SEABED ELEVATION MAY VARY AT TIME OF CONSTRUCTION.
 8. HDD PIT GEOMETRY AND LOCATION MAY NEED TO BE ADJUSTED FOLLOWING PRE-CONSTRUCTION SURVEY.
 9. HDD PIT GEOMETRY IS REPRESENTATIVE OF A SINGLE HDD INSTALLATION.
- © Mott MacDonald
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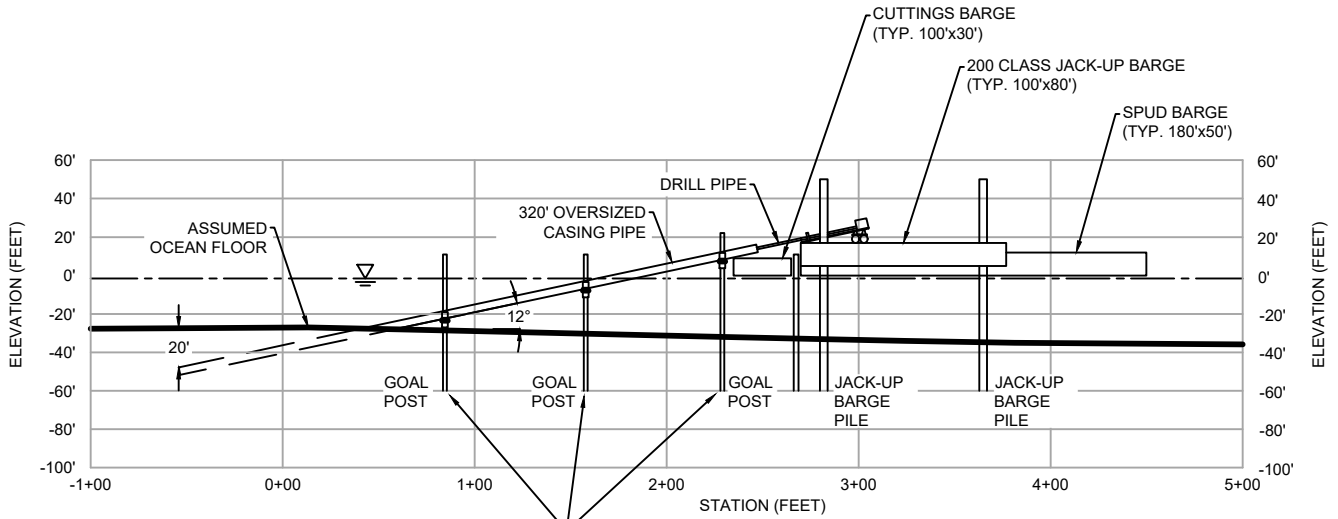


Title: EXCAVATION PIT FOR HDD (FOR SUBMARINE CABLE PULL-IN OPERATIONS AT LANDFALL)		Location: 99 RIVERSIDE BLVD LONG BEACH, NY		<p>Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019</p>				
Applicant Name: EMPIRE OFFSHORE WIND LLC.		Lat/Long: 40.577, -73.661						
Proposed Project: EMPIRE WIND 2 PROJECT		Waterbody: ATLANTIC OCEAN						
ISSUED FOR USACE APPLICATION								
Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	1" = 40'	005	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B

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PLAN VIEW
N.T.S.



POST EMBEDMENT DEPTH AND
GOAL POST SPACING TO BE
DETERMINED BY THE CONTRACTOR

PROFILE
N.T.S.

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Title: TYPICAL HDD LANDFALL EXIT LOCATION
EQUIPMENT SPREAD DETAIL

Applicant Name: EMPIRE OFFSHORE WIND LLC.

Proposed Project: EMPIRE WIND 2 PROJECT




ISSUED FOR USACE 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	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	N.T.S.	006	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B


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 Onshore Substation
 Onshore Export Cable Route
 Interconnection Cable Route

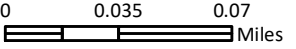


Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: NYS ITS GIS Program Office, Westchester

APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: REYNOLDS CHANNEL

 **TETRA TECH**
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617)-443-7500
 Fax: (617)737-34809

EMPIRE OFFSHORE WIND LLC
 REYNOLDS CHANNEL (WRECK LEAD CHANNEL) HDD CROSSING

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 Miles

USACE FILE: NAN-2022-00902-EMI

NOTES:

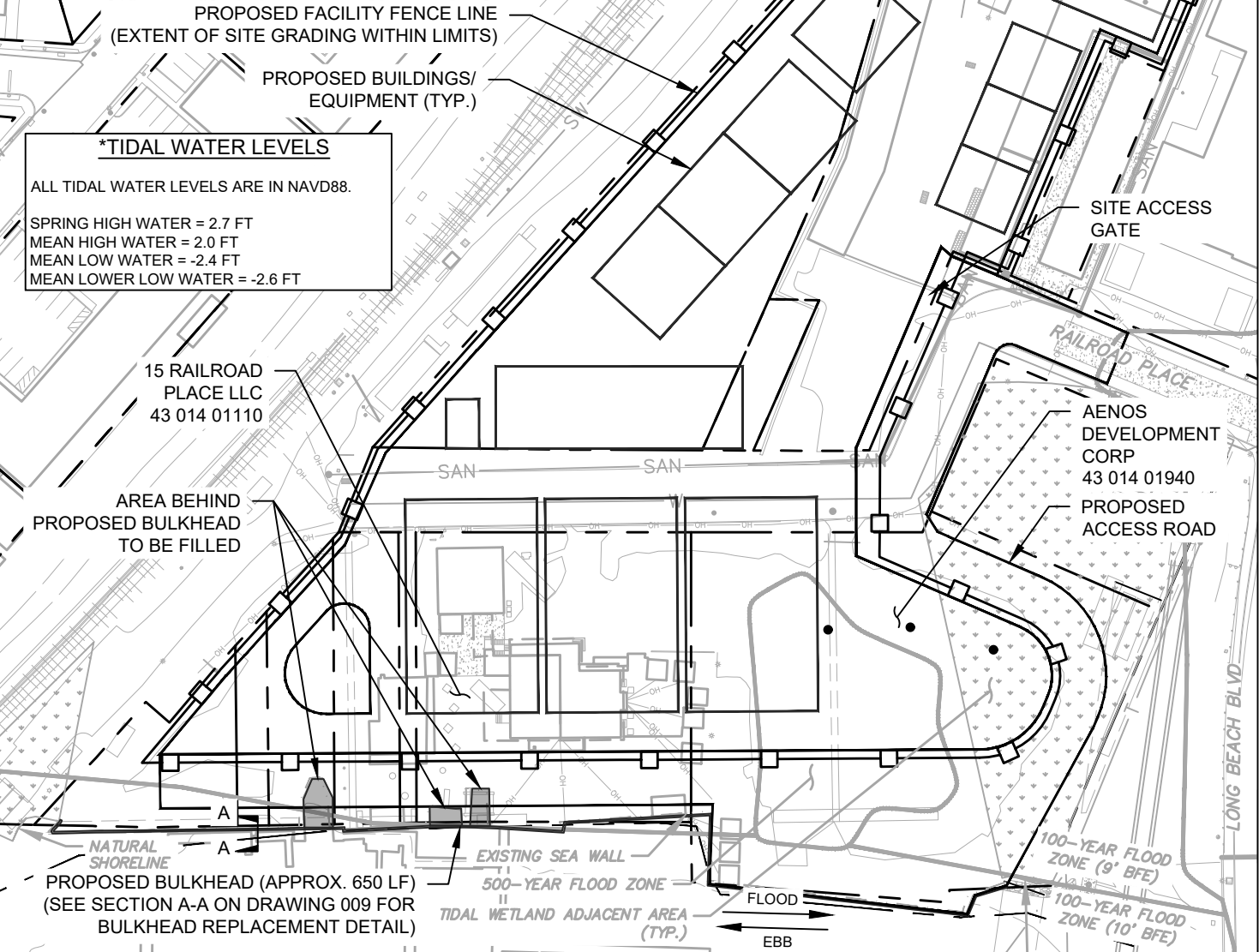
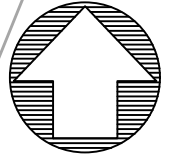
1. EXISTING FEATURES SHOWN ON THIS PLAN PROVIDED BY ROBINSON AERIAL ON 09/22/2021.
2. HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD1988.
3. CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.
4. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
5. SPRING HIGH WATER (SHW) VALUE WAS ESTIMATED BASED ON THE 2022 TIDE PREDICTIONS DATA FROM NOAA STATION 8516663, LONG BEACH, NY.
6. FLOOD/EBB FLOW DIRECTIONS ARE APPROXIMATED FROM PUBLIC DATA.

USACE IMPACTS:

AS SHOWN BELOW THE EXISTING BOAT SLIP AREAS WILL BE FILLED WITH CLEAN FILL AND A NEW PROPOSED BULKHEAD WILL BE INSTALLED SEAWARD OF THE EXISTING BULKHEAD. BELOW ARE THE AREA AND VOLUME IMPACTS FOR THESE PROPOSED UPGRADES.

BOAT SLIP FILL AREA: 925 SF
 *BOAT SLIP/BULKHEAD FILL VOLUME: 201 CY
 *FLOWABLE CONCRETE BACKFILL VOLUME: 194 CY

*NOTE: THE FILL VOLUME IS QUANTIFIED BASED ON EXISTING MUDLINE TO THE SPRING HIGH WATER LINE (ELEV: 2.7' NAVD88).



***TIDAL WATER LEVELS**
 ALL TIDAL WATER LEVELS ARE IN NAVD88.
 SPRING HIGH WATER = 2.7 FT
 MEAN HIGH WATER = 2.0 FT
 MEAN LOW WATER = -2.4 FT
 MEAN LOWER LOW WATER = -2.6 FT

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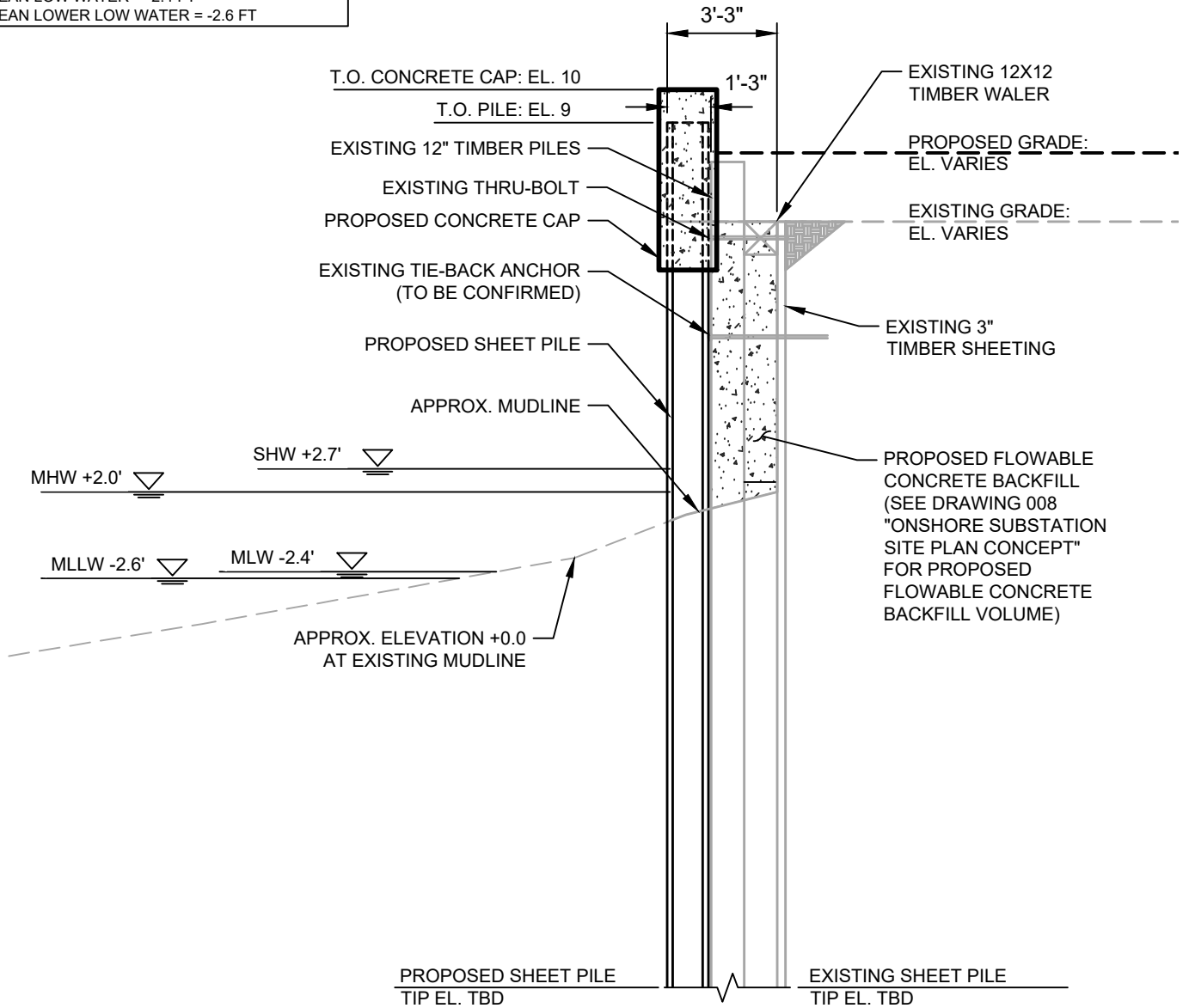
Title: ONSHORE SUBSTATION SITE PLAN CONCEPT			Location: 15 RAILROAD PLACE ISLAND PARK, NY			Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019		
Applicant Name: EMPIRE OFFSHORE WIND LLC.			Lat/Long: 40.597, -73.658					
Proposed Project: EMPIRE WIND 2 PROJECT			Waterbody: REYNOLDS CHANNEL					
ISSUED FOR USACE APPLICATION								
Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	1" = 100'	008	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B

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***TIDAL WATER LEVELS**

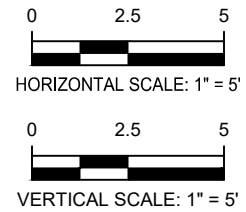
ALL TIDAL WATER LEVELS ARE IN NAVD88.

SPRING HIGH WATER = 2.7 FT
 MEAN HIGH WATER = 2.0 FT
 MEAN LOW WATER = -2.4 FT
 MEAN LOWER LOW WATER = -2.6 FT



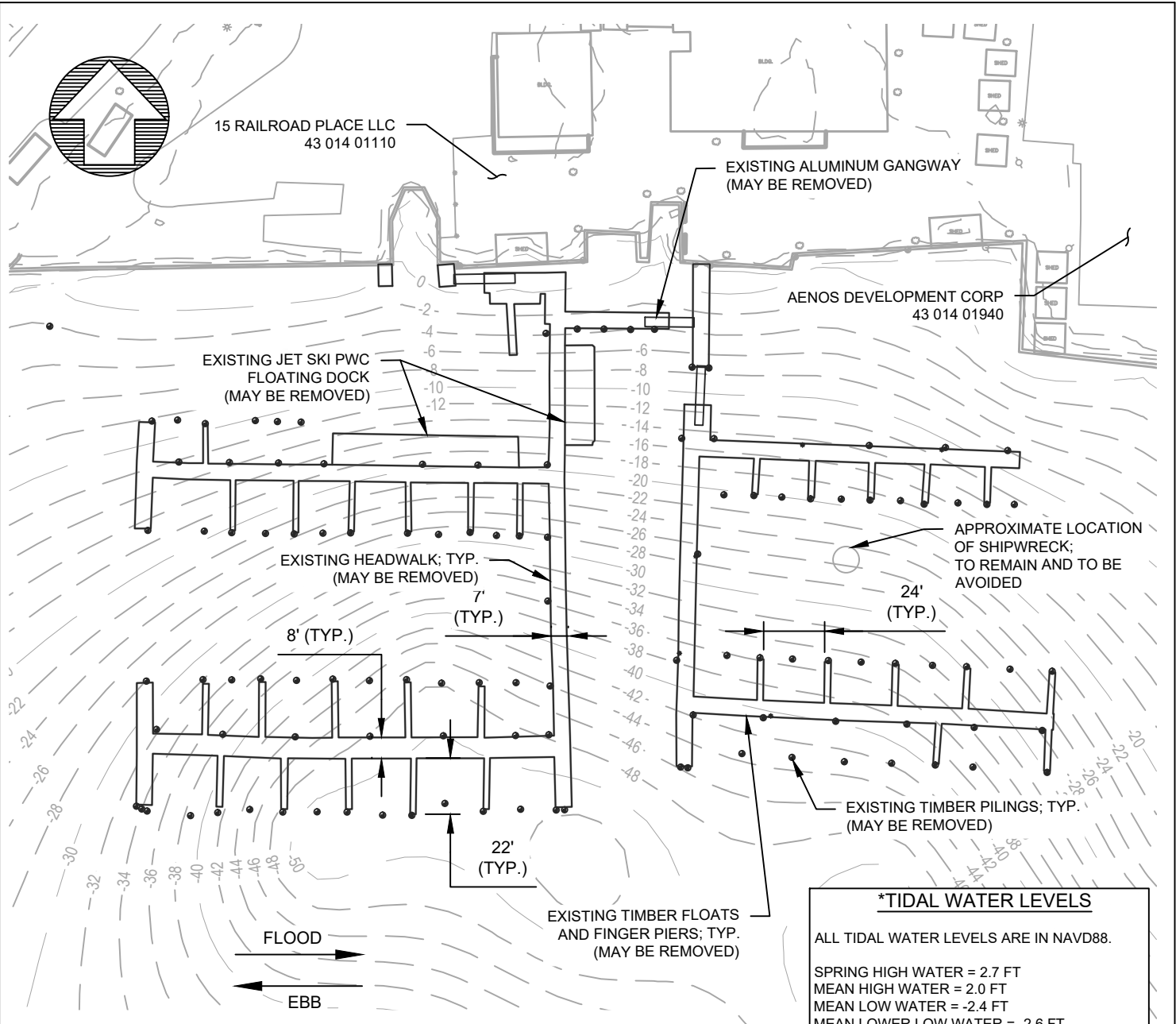
- EXISTING SHEET PILE DEPTHS UNKNOWN AND TO BE FIELD VERIFIED.
- CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.
- ALL ELEVATION SHOWN IN SECTION REPRESENT NAVD88.
- DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
- SPRING HIGH WATER (SHW) VALUE WAS ESTIMATED BASED ON THE 2022 TIDE PREDICTIONS DATA FROM NOAA STATION 8516663, LONG BEACH, NY.

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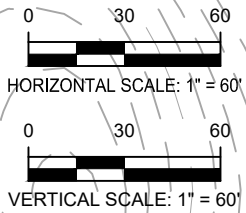


Title: BULKHEAD REPLACEMENT SECTION A-A Applicant Name: EMPIRE OFFSHORE WIND LLC. Proposed Project: EMPIRE WIND 2 PROJECT ISSUED FOR USACE APPLICATION					Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019				
Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	File Number	Status	Rev	
11/03/2022	JSR	KEK	MDN	1" = 5'	009	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B	

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*TIDAL WATER LEVELS	
ALL TIDAL WATER LEVELS ARE IN NAVD88.	
SPRING HIGH WATER	= 2.7 FT
MEAN HIGH WATER	= 2.0 FT
MEAN LOW WATER	= -2.4 FT
MEAN LOWER LOW WATER	= -2.6 FT



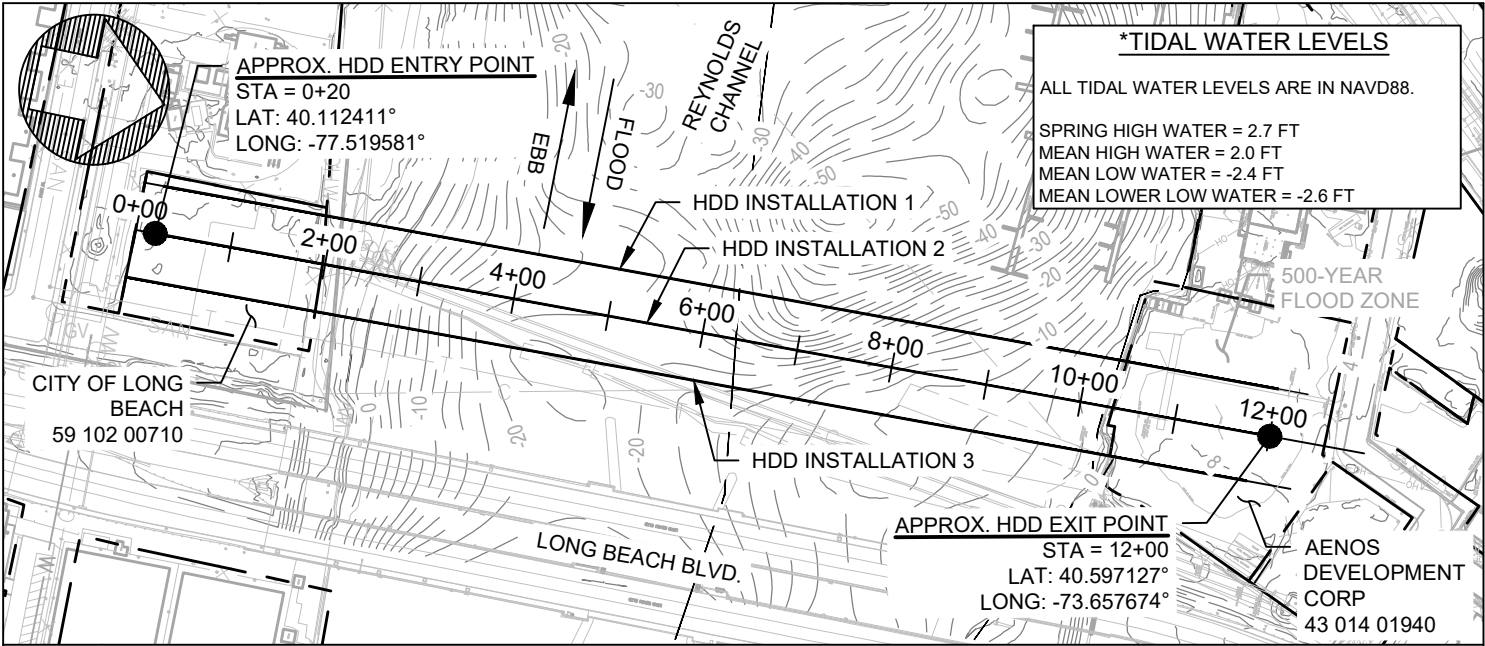
- EXISTING 2' CONTOURS SHOWN WITHIN REYNOLDS CHANNEL ARE FROM NOAA AND MAY NOT REFLECT CURRENT BATHYMETRIC CONDITIONS.
- EXISTING FEATURES SHOWN PROVIDED BY ROBINSON AERIAL ON 09/22/2021.
- HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD88.
- CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.
- DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
- SPRING HIGH WATER (SHW) VALUE WAS ESTIMATED BASED ON THE 2022 TIDE PREDICTIONS DATA FROM NOAA STATION 8516663, LONG BEACH, NY.
- FLOOD/EBB FLOW DIRECTIONS ARE APPROXIMATED FROM PUBLIC DATA.

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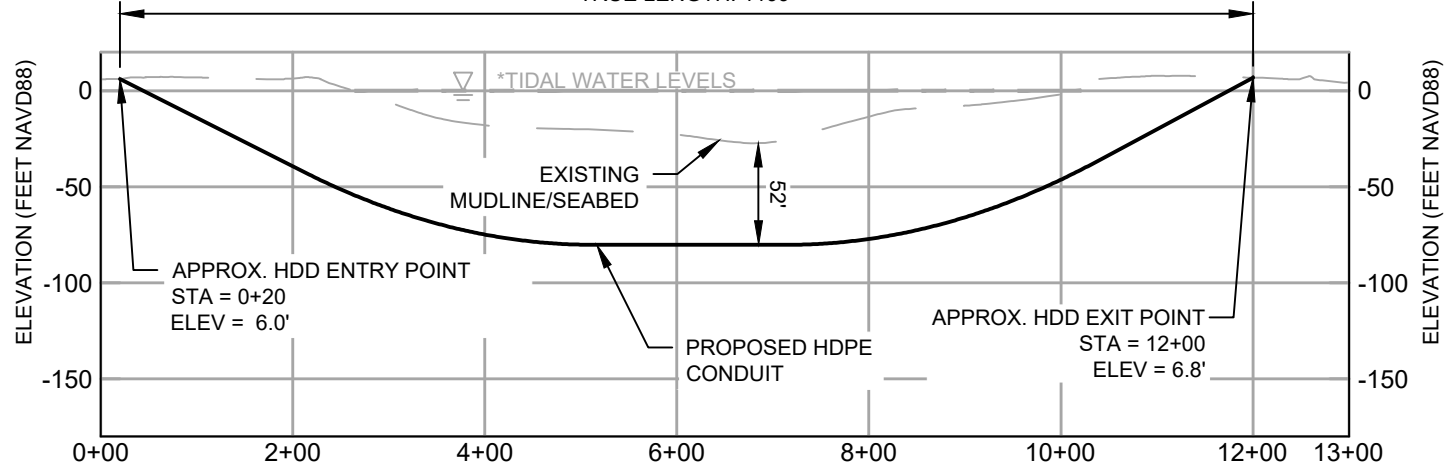
Title: REYNOLDS CHANNEL MARINA				Location: 15 RAILROAD PLACE ISLAND PARK, NY		 Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019		
Applicant Name: EMPIRE OFFSHORE WIND LLC.				Lat/Long: 40.596, -73.659				
Proposed Project: EMPIRE WIND 2 PROJECT				Waterbody: REYNOLDS CHANNEL				
ISSUED FOR USACE APPLICATION								
Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	1" = 60'	010	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B

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PLAN VIEW
SCALE: 1" = 200'

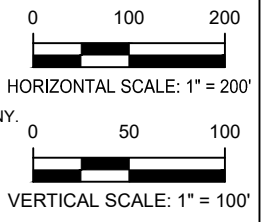
HORIZONTAL DISTANCE: 1180'
TRUE LENGTH: 1199'



PROFILE VIEW (HDD INSTALLATION 2)


HORIZ. SCALE: 1" = 200'
VERT. SCALE: 1" = 100'

1. PRELIMINARY HDD ALIGNMENTS SHOWN MAY BE ADJUSTED AS THE DESIGN PROGRESSES.
3. BATHYMETRIC DATA IS FROM PUBLIC SOURCES (NOAA). ADDITIONAL SURVEY WILL BE REQUIRED TO VERIFY EXACT LOCATION OF MUDLINE.
4. HORIZONTAL DATUM IS NAD83, NEW YORK STATE PLANE, LONG ISLAND US FOOT. VERTICAL DATUM IS NAVD88.
5. CONVERSION FOR VERTICAL DATUM IS NAVD88 + 2.6' = MLLW.
6. ALL ELEVATION SHOWN IN PROFILE REPRESENT NAVD88.
7. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
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9. FLOOD/EBB FLOW DIRECTIONS ARE APPROXIMATED FROM PUBLIC DATA.

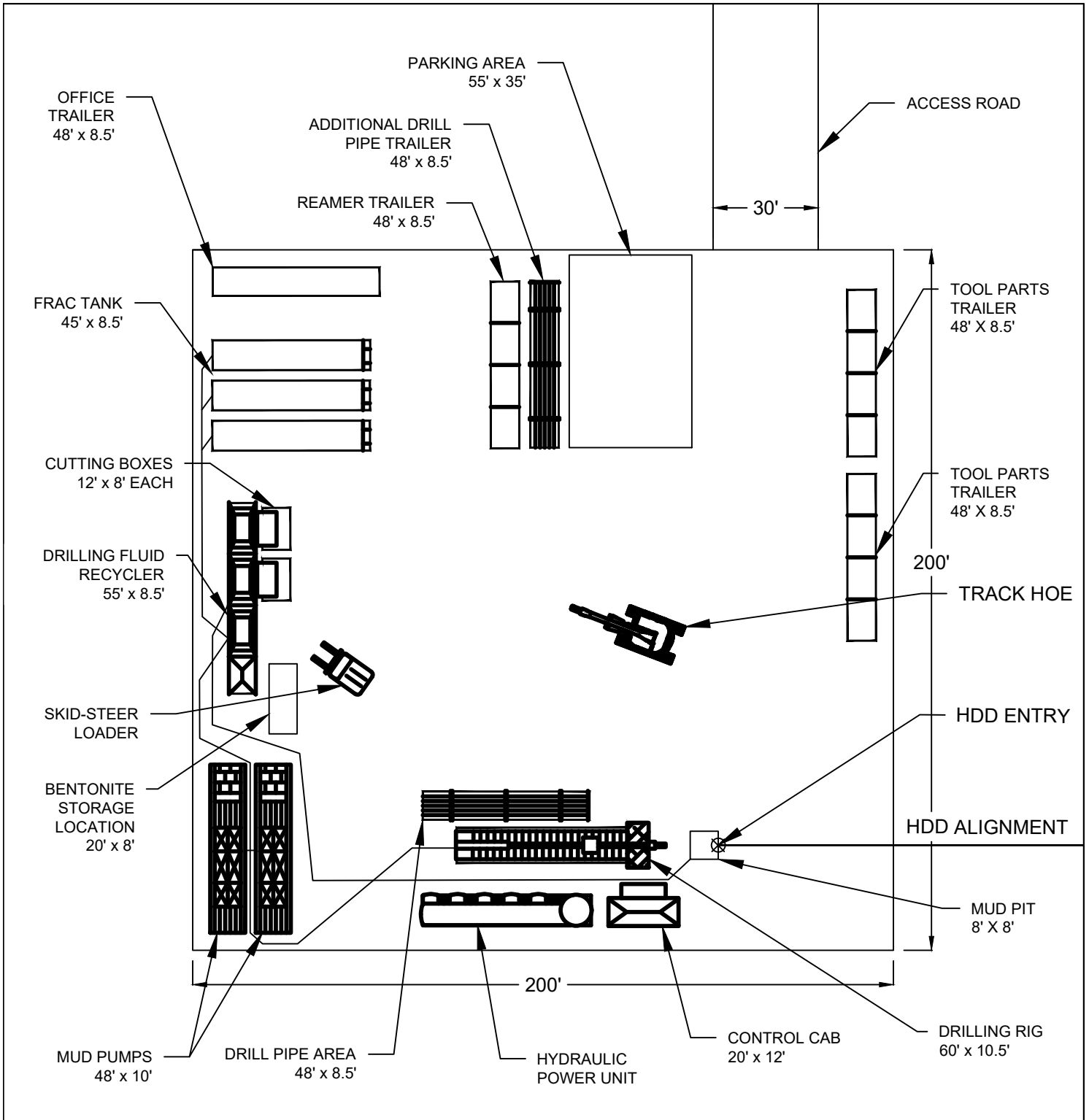


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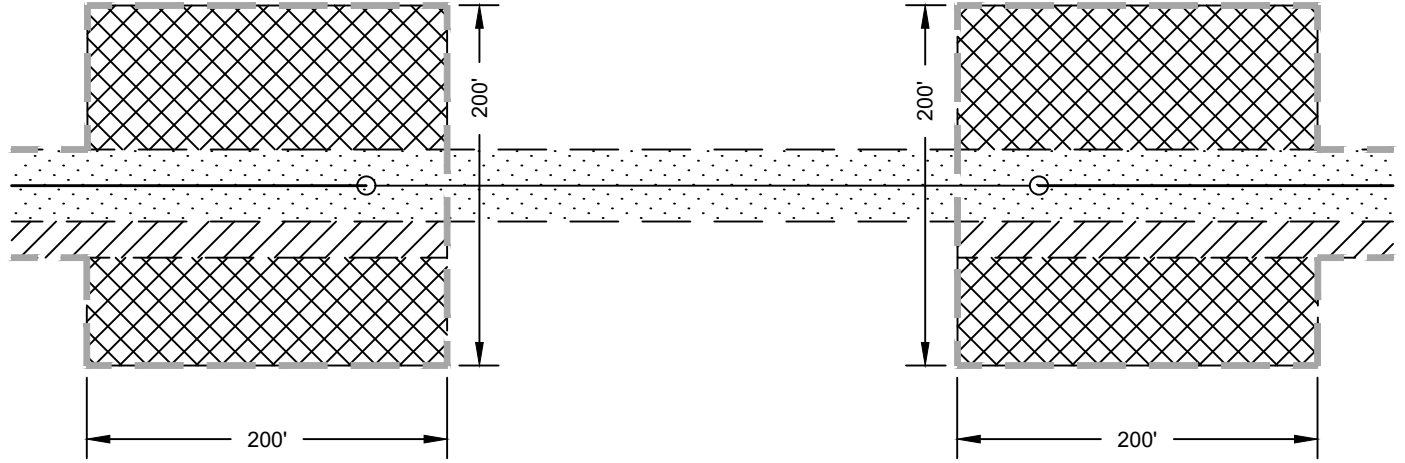
Title: REYNOLDS CHANNEL HDD CROSSING PLAN & PROFILE			Location: 15 RAILROAD PLACE ISLAND PARK, NY			 Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019		
Applicant Name: EMPIRE OFFSHORE WIND LLC.			Lat/Long: 40.596, -73.658					
Proposed Project: EMPIRE WIND 2 PROJECT			Waterbody: REYNOLDS CHANNEL					
ISSUED FOR USACE APPLICATION								
Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	AS SHOWN	011	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B

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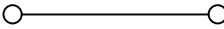

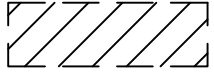




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Title: TYPICAL HDD LAYOUT (LARGE RIG SETUP) 200' X 200' WORKSPACE						 Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019		
Applicant Name: EMPIRE OFFSHORE WIND LLC.								
Proposed Project: EMPIRE WIND 2 PROJECT								
ISSUED FOR USACE APPLICATION								
Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	N.T.S.	012	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B



PLAN VIEW
N.T.S.

-  PROPOSED ELECTRICAL CIRCUIT
-  PROPOSED HORIZONTAL DIRECTIONAL DRILL
-  LIMIT OF DISTUBANCE
-  TEMPORARY WORKSPACE
-  ADDITIONAL TEMPORARY WORKSPACE
-  PROPOSED PERMANENT EASEMENT

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Title: TYPICAL HDD
WORKSPACE SKETCH

Applicant Name: EMPIRE OFFSHORE WIND LLC.

Proposed Project: EMPIRE WIND 2 PROJECT

ISSUED FOR USACE 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	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	N.T.S.	013	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B

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 POI
 Interconnection Cable Route



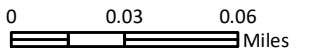
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: NYS ITS GIS Program Office, Westchester

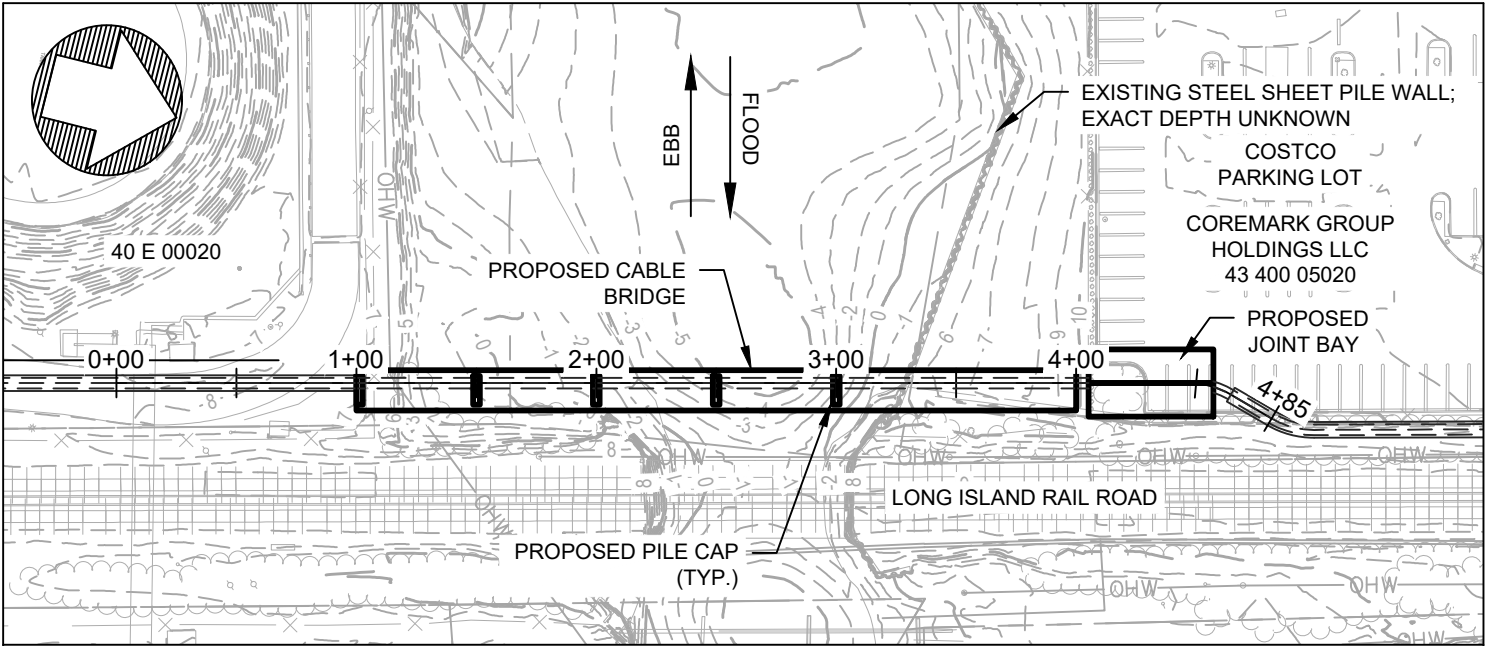


APPLICATION NUMBER: NAN-2022-00902-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 2 PROJECT
 LOCATION: BARNUMS CHANNEL

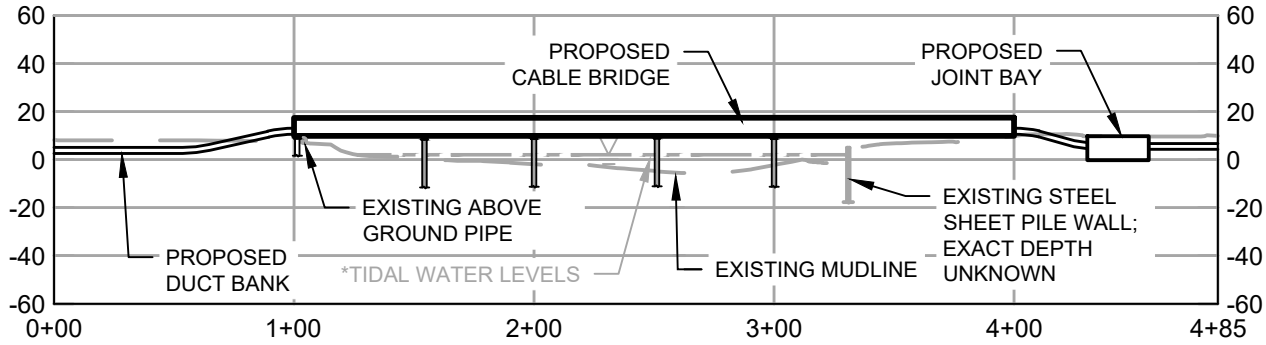
 **TETRA TECH**
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617)-443-7500
 Fax: (617)737-34809

EMPIRE OFFSHORE WIND LLC
 BARNUMS CHANNEL CABLE BRIDGE CROSSING

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES

 0 0.03 0.06 Miles



PLAN VIEW
SCALE: 1" = 80'

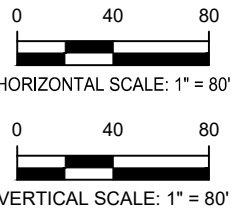


PROFILE VIEW
HORIZ. SCALE: 1" = 80'
VERT. SCALE: 1" = 80'

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 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 + 2.8' = MLLW.
9. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
10. SPRING HIGH WATER (SHW) VALUE WAS ESTIMATED BASED ON THE 2022 TIDE PREDICTIONS FROM NOAA STATION 8516663, LONG BEACH, NY.
11. FLOOD/EBB FLOW DIRECTIONS ARE APPROXIMATED FROM PUBLIC DATA.

*TIDAL WATER LEVELS	
ALL TIDAL WATER LEVELS ARE IN NAVD88.	
SPRING HIGH WATER	= 2.7 FT
MEAN HIGH WATER	= 1.9 FT
MEAN LOW WATER	= -2.6 FT
MEAN LOWER LOW WATER	= -2.8 FT

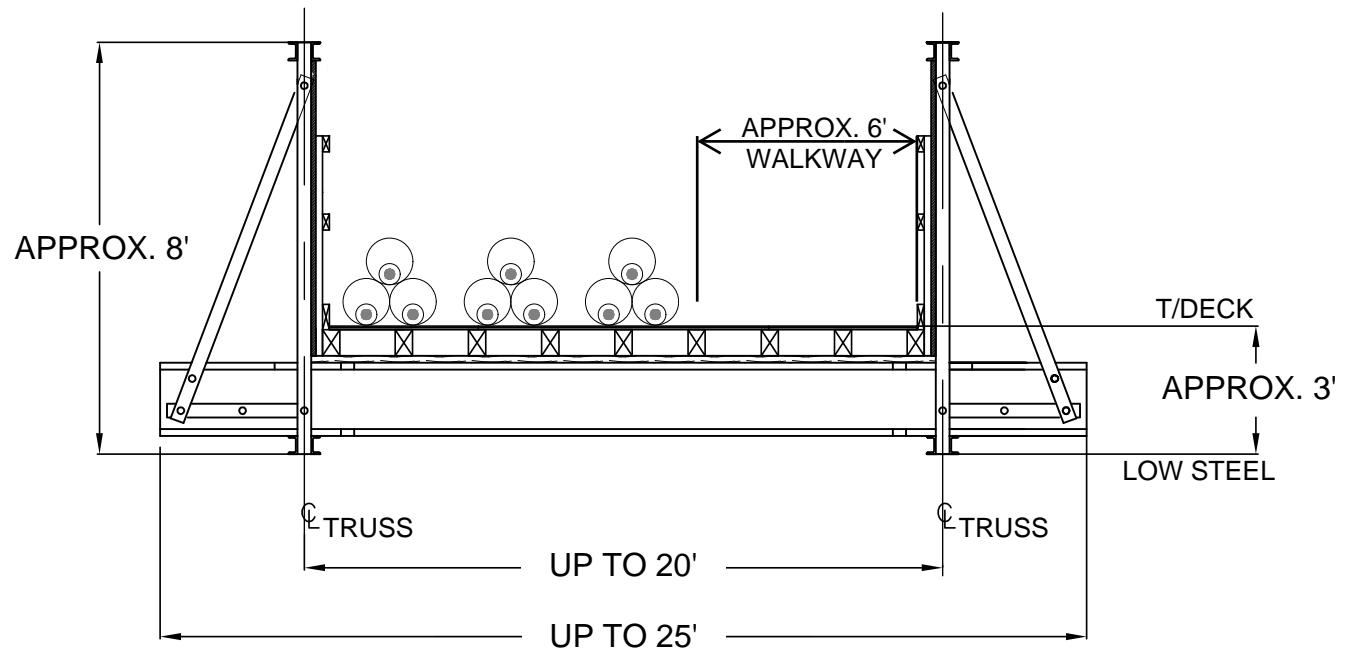
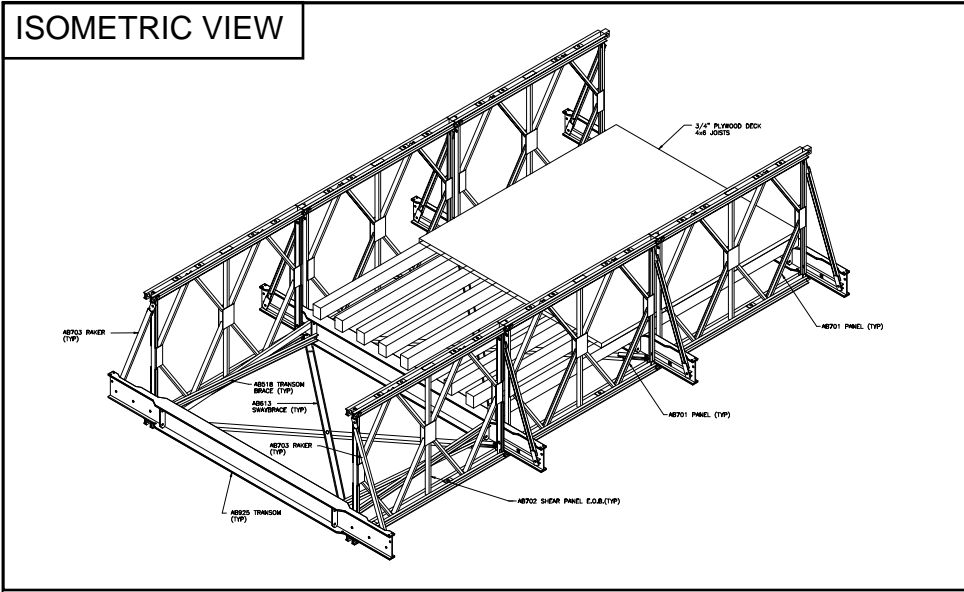


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Title: BARNUMS CHANNEL CABLE BRIDGE CROSSING		Location: 3705 HAMPTON ROAD OCEANSIDE, NY		 MOTT MACDONALD Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019				
Applicant Name: EMPIRE OFFSHORE WIND LLC.		Lat/Long: 40.617, -73.650						
Proposed Project: EMPIRE WIND 2 PROJECT		Waterbody: BARNUMS CHANNEL						
ISSUED FOR USACE APPLICATION								
Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	AS SHOWN	014	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B

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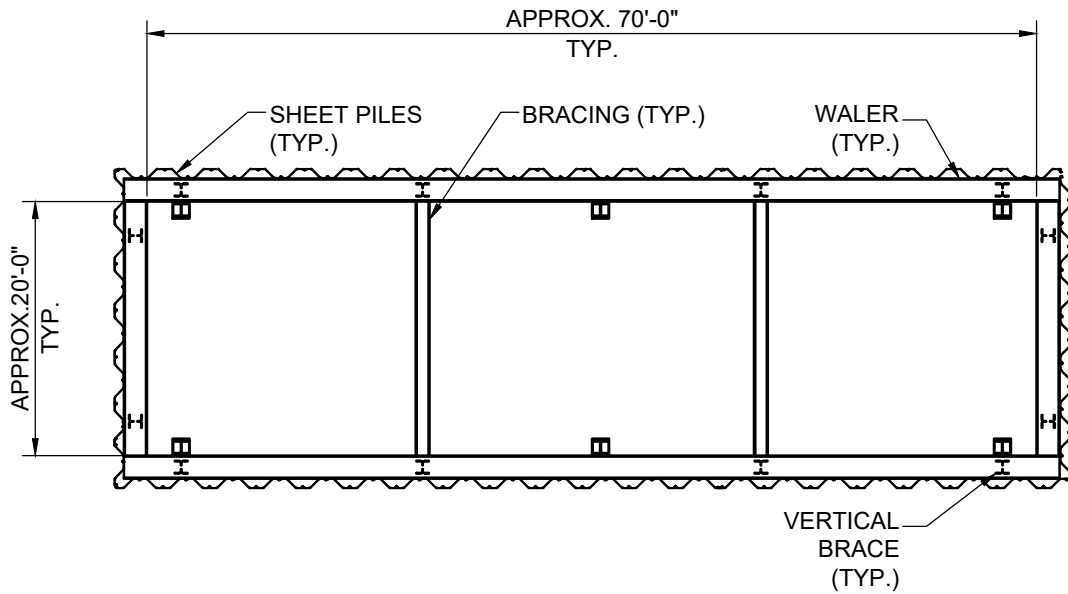
ACROW BRIDGE SUPERSTRUCTURE
TYPICAL SECTION
N.T.S.

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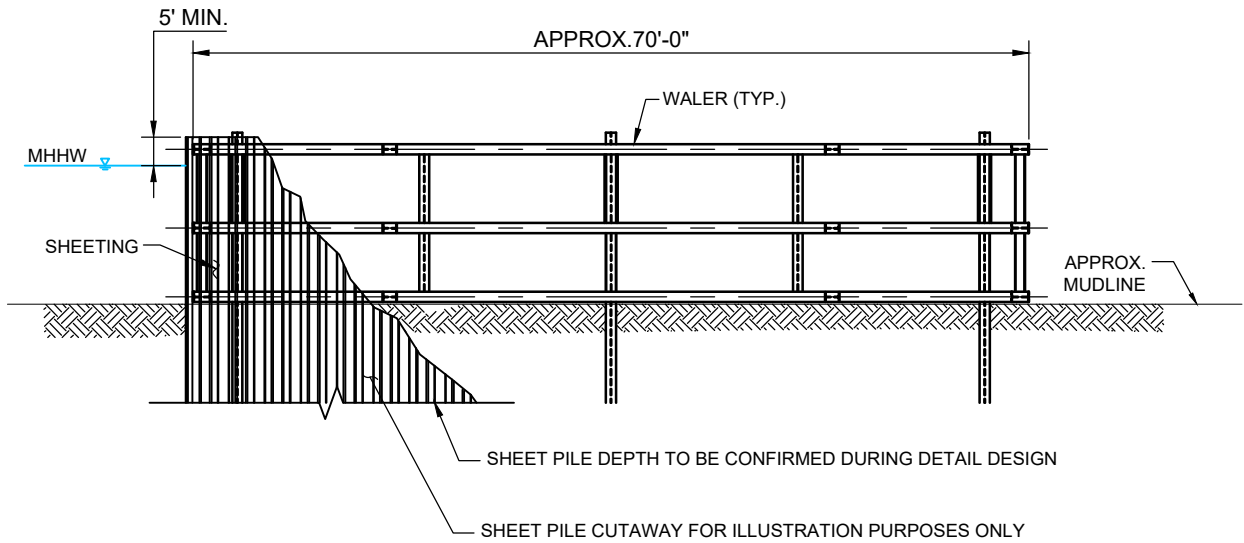
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Title: TYPICAL SECTION BARNUMS CHANNEL BRIDGE CROSSING			Location: 3705 HAMPTON ROAD OCEANSIDE, NY			Mott MacDonald NY Inc. 111 Wood Avenue South Iselin, NJ 08830-4112 Certificate of Authorization #: 0017019		
Applicant Name: EMPIRE OFFSHORE WIND LLC.			Lat/Long: 40.617, -73.650					
Proposed Project: EMPIRE WIND 2 PROJECT			Waterbody: BARNUMS CHANNEL					
ISSUED FOR USACE APPLICATION								
Date	Drawn	Checked	Approved	Scale at ANSI A	Drawing Number	File Number	Status	Rev
11/03/2022	MMT	MWC	MDN	N.T.S.	016	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B

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PLAN VIEW
N.T.S.



SECTION
N.T.S.

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Title: TYPICAL COFFERDAM DETAIL
PLAN & ELEVATION

Applicant Name: EMPIRE OFFSHORE WIND LLC.

Proposed Project: EMPIRE WIND 2 PROJECT

ISSUED FOR USACE 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	File Number	Status	Rev
11/03/2022	JSR	KEK	MDN	N.T.S.	004	NAN-2022-00902-EMI EMPIRE WIND 2	PRE	B

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