

- ▲ POI
 - EW 1 Turbine Array Layout*
 - ⊠ EW 1 Offshore Substation*
 - EW 1 Submarine Export Cable Route
 - ▨ EW 1
 - ▭ Lease Area
 - - - 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-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN

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

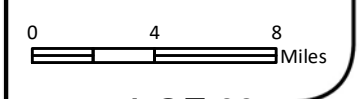
EMPIRE OFFSHORE WIND LLC

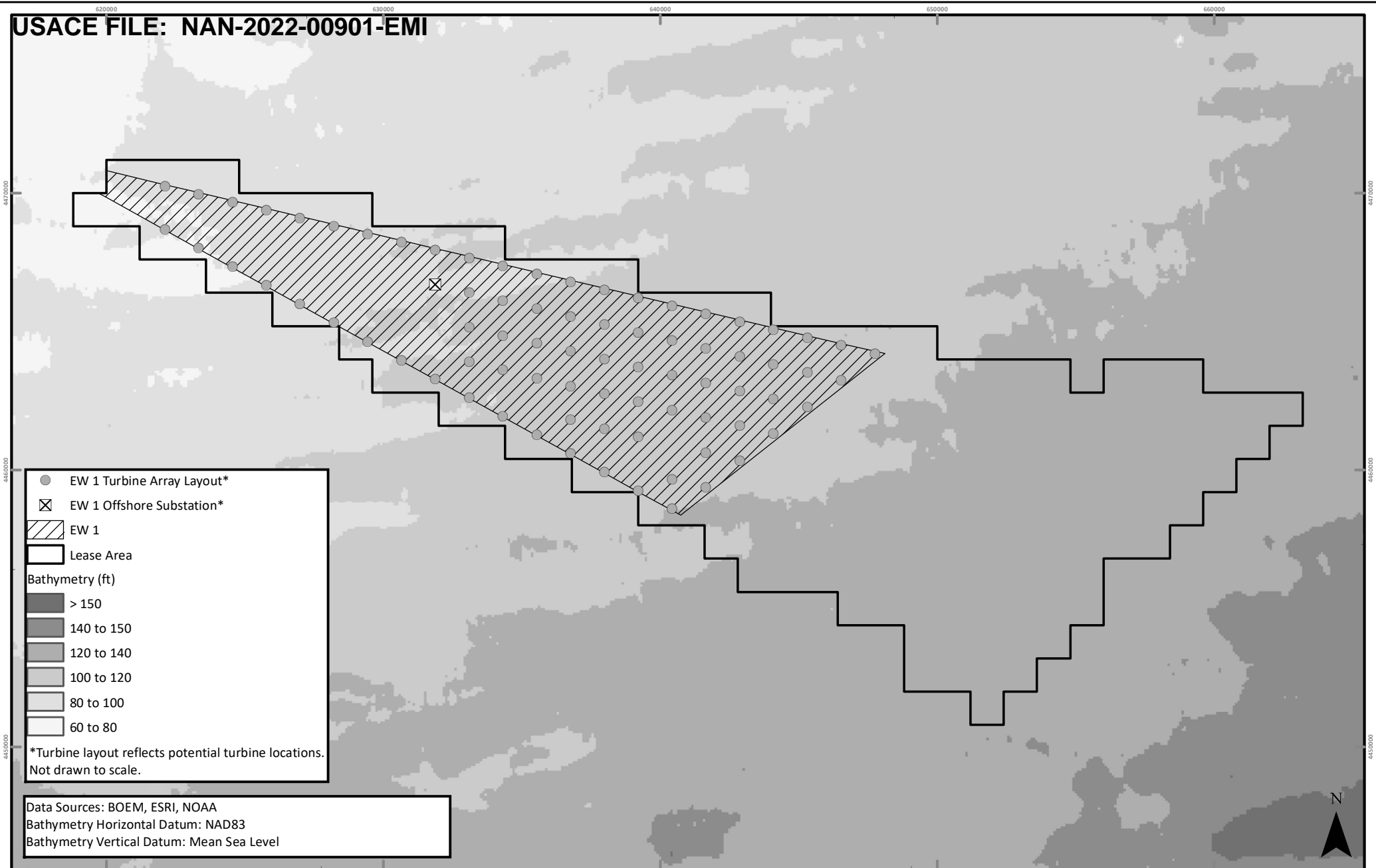
PROJECT VICINITY

REVISION 2

DATE: 11/3/2022

DESN: W. SCALES





- EW 1 Turbine Array Layout*
- ⊗ EW 1 Offshore Substation*
- ▨ EW 1
- ▭ Lease Area

Bathymetry (ft)

- > 150
- 140 to 150
- 120 to 140
- 100 to 120
- 80 to 100
- 60 to 80

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

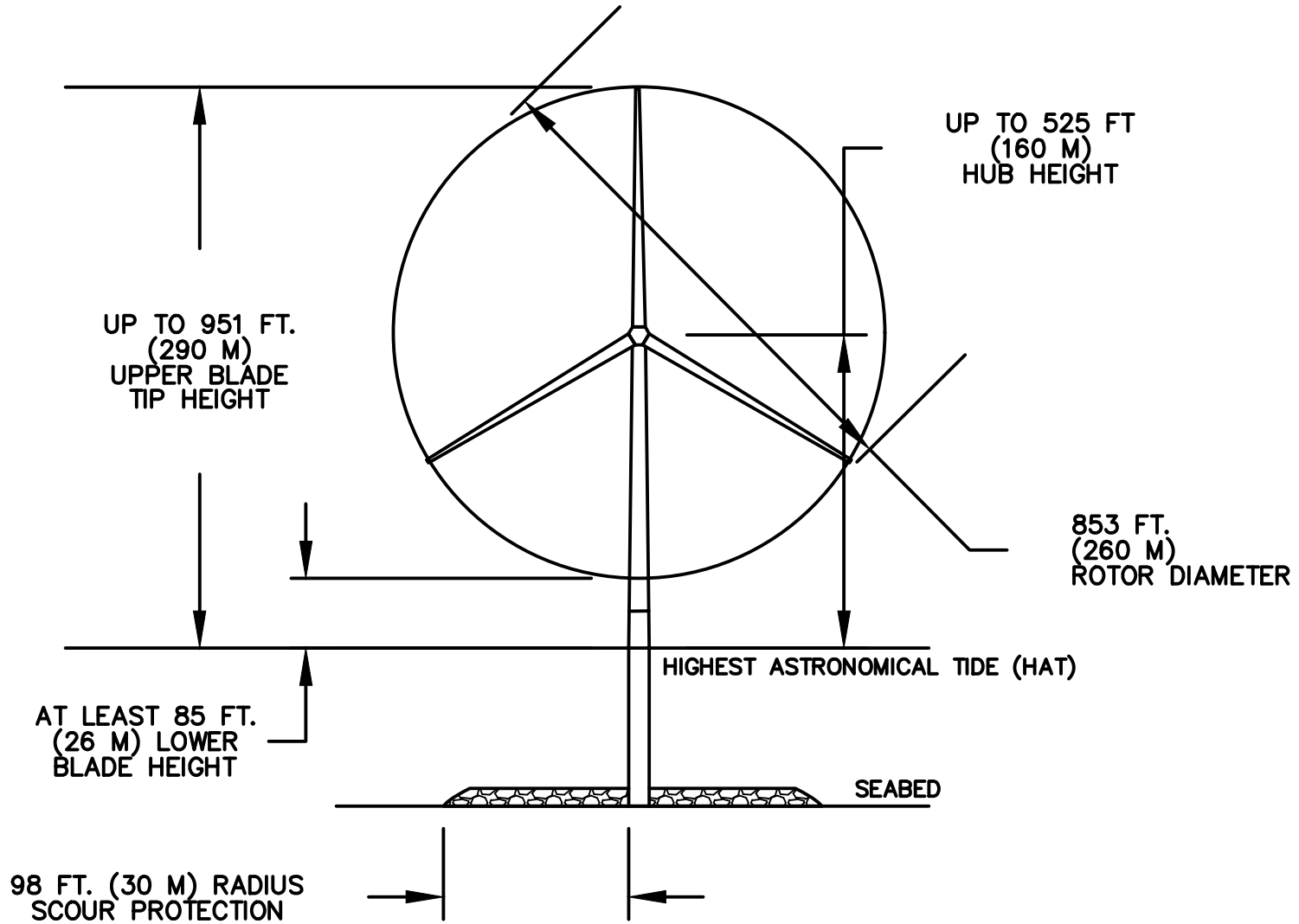
Data Sources: BOEM, ESRI, NOAA
 Bathymetry Horizontal Datum: NAD83
 Bathymetry Vertical Datum: Mean Sea Level

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN

TE 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
 CONCEPTUAL LAYOUT

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



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512

WATERBODY: ATLANTIC OCEAN

ISSUED FOR USACE PERMIT APPLICATION

SHEET 1 OF 1 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 1
WIND TURBINE
GENERATOR

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

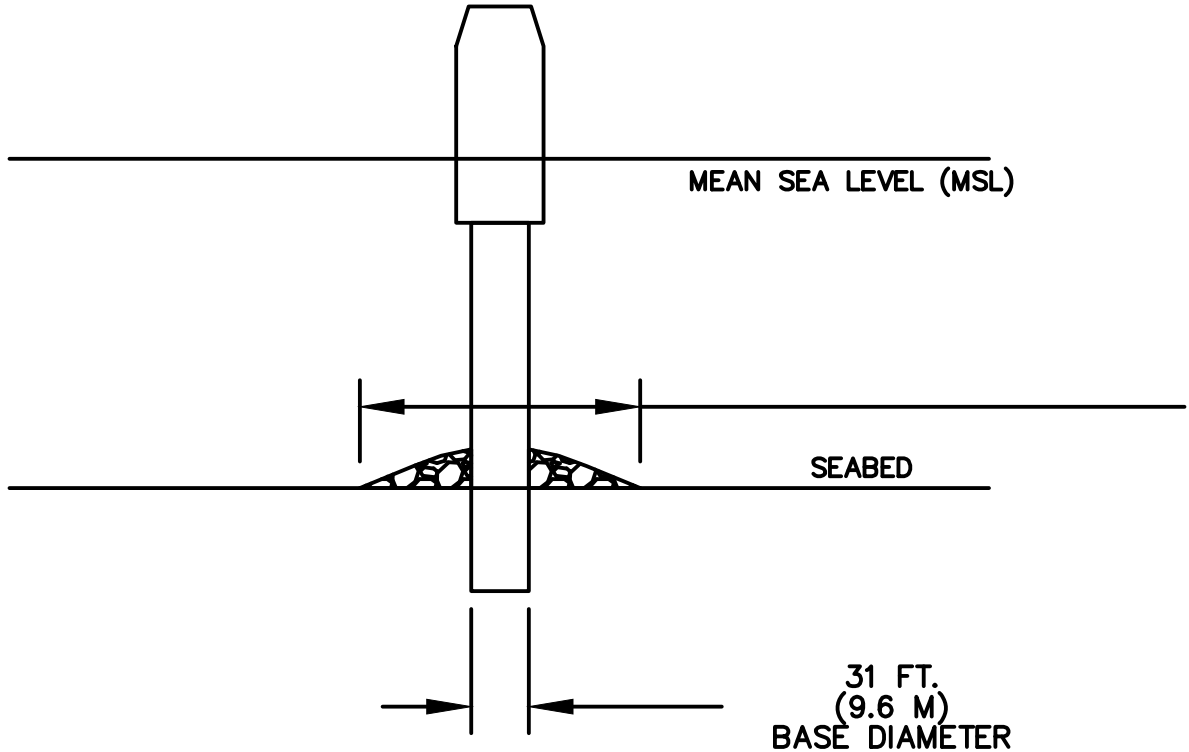


DESN: R. GIFFORD

Scale at ANSI A NTS

NTS

Copyright: Tetra Tech



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

31 FT.
 (9.6 M)
 BASE DIAMETER

USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512

WATERBODY: ATLANTIC OCEAN

 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 1 OF 1 DATE: 11/3/22

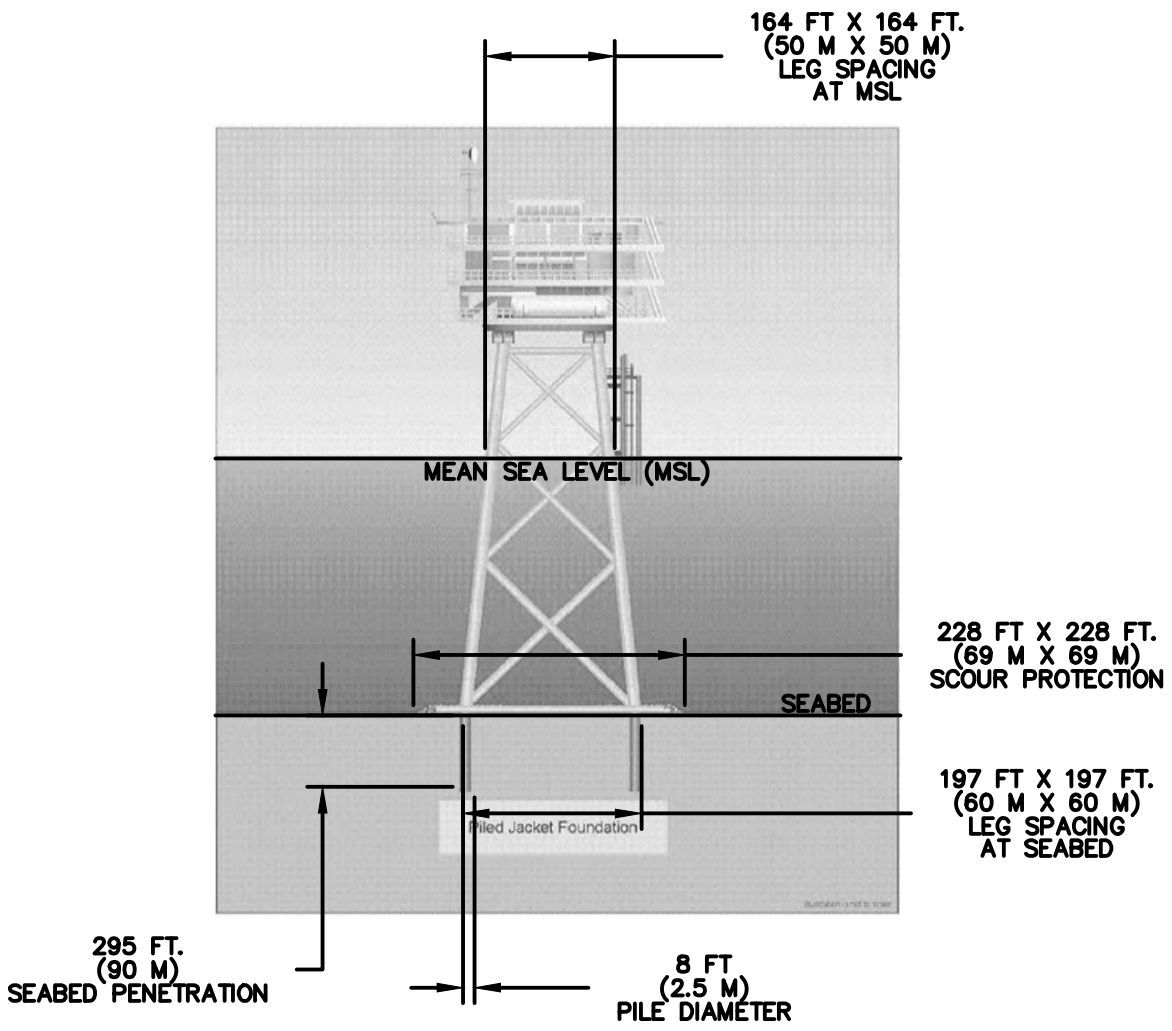
NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 1
 FOUNDATION CROSS
 SECTION

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

DESN: R. GIFFORD
 Scale at ANSI A NTS
 NTS

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512

WATERBODY: ATLANTIC OCEAN
 LAT/LONG: 40.34035485, -73.44726552
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 1 OF 1 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 1
 OFFSHORE SUBSTATION
 CROSS SECTION

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

DESIGN: R. GIFFORD
 Scale at ANSI A NTS
 NTS

Copyright: Tetra Tech

USACE FILE: NAN-2022-00901-EMI

LOC	Northing	Easting	Lat	Long	Depth (m)
1	75785.73	1106423.83	40.37386	-73.56153	-26.4
2	70675.11	1106366.30	40.35983	-73.56183	-26.0
3	74797.41	1110418.98	40.37109	-73.54721	-26.3
4	68417.14	1110347.17	40.35358	-73.54759	-24.7
5	73809.08	1114414.12	40.36832	-73.53289	-27.1
6	66159.19	1114328.04	40.34732	-73.53335	-25.7
7	72820.76	1118409.24	40.36554	-73.51858	-26.1
8	63901.26	1118308.91	40.34106	-73.51911	-27.3
9	71832.49	1122404.33	40.36277	-73.50426	-29.0
10	61643.37	1122289.75	40.33481	-73.50488	-29.4
11	70844.19	1126399.43	40.35999	-73.48994	-30.8
12	59385.49	1126270.61	40.32855	-73.49065	-30.1
13	69855.95	1130394.52	40.35722	-73.47563	-31.0
14	57127.62	1130251.47	40.32228	-73.47642	-31.7
15	68867.68	1134389.60	40.35444	-73.46132	-31.4
16	54869.78	1134232.33	40.31602	-73.46219	-32.4
17	67879.43	1138384.67	40.35166	-73.44701	-30.9
18	52611.96	1138213.18	40.30975	-73.44797	-32.6
19	66891.22	1142379.73	40.34888	-73.43270	-32.6
20	62776.01	1142333.50	40.33758	-73.43296	-30.7
21	58660.81	1142287.28	40.32629	-73.43322	-32.0
22	54545.58	1142241.07	40.31499	-73.43348	-33.0
23	50354.16	1142194.03	40.30349	-73.43375	-32.4
24	65903.00	1146374.78	40.34609	-73.41839	-30.6
25	61787.83	1146328.55	40.33480	-73.41865	-32.9
26	57672.62	1146282.35	40.32350	-73.41892	-32.6
27	53557.40	1146236.15	40.31221	-73.41918	-32.4
28	48096.39	1146174.88	40.29722	-73.41953	-32.6
29	64914.79	1150369.81	40.34330	-73.40408	-30.3
30	60799.63	1150323.60	40.33201	-73.40435	-33.3
31	56684.44	1150277.40	40.32072	-73.40461	-32.5
32	52569.26	1150231.22	40.30942	-73.40488	-32.9
33	45838.64	1150155.73	40.29095	-73.40531	-34.5
34	63926.63	1154364.83	40.34052	-73.38978	-31.8
35	59811.45	1154318.63	40.32922	-73.39004	-32.5
36	55696.30	1154272.45	40.31793	-73.39031	-34.0
37	51581.11	1154226.28	40.30663	-73.39058	-32.6
38	47581.01	1154181.42	40.29566	-73.39084	-35.7
39	43580.91	1154136.57	40.28468	-73.39110	-32.5
40	62938.45	1158359.84	40.33773	-73.37547	-32.4
41	58823.32	1158313.65	40.32643	-73.37574	-33.3
42	54708.15	1158267.48	40.31514	-73.37601	-33.4

43	50593.01	1158221.32	40.30384	-73.37628	-33.4
44	46477.83	1158175.18	40.29255	-73.37655	-33.6
45	41323.21	1158117.41	40.27840	-73.37689	-35.2
46	61950.31	1162354.84	40.33494	-73.36117	-32.8
47	57835.17	1162308.66	40.32364	-73.36144	-34.8
48	53720.05	1162262.50	40.31235	-73.36171	-33.1
49	49604.89	1162216.36	40.30105	-73.36199	-32.8
50	45489.75	1162170.23	40.28976	-73.36226	-33.6
51	39065.52	1162098.25	40.27213	-73.36268	-35.4
52	60962.15	1166349.83	40.33214	-73.34686	-32.8
53	56847.06	1166303.66	40.32085	-73.34714	-34.4
54	52731.92	1166257.51	40.30955	-73.34742	-32.9
55	48616.78	1166211.38	40.29826	-73.34769	-34.5
56	40386.50	1166119.16	40.27567	-73.34824	-35.4
57	59974.02	1170344.80	40.32935	-73.33256	-35.1
58	55858.94	1170298.65	40.31805	-73.33284	-33.1
59	51743.82	1170252.51	40.30676	-73.33312	-33.4
60	47628.72	1170206.38	40.29547	-73.33340	-36.0
61	43513.58	1170160.28	40.28417	-73.33367	-36.0
62	58985.93	1174339.76	40.32655	-73.31826	-34.8
63	54870.83	1174293.62	40.31526	-73.31854	-34.1
64	50755.76	1174247.49	40.30396	-73.31882	-34.5
65	46640.64	1174201.38	40.29267	-73.31910	-36.0
66	57997.82	1178334.71	40.32375	-73.30396	-35.9
67	53882.77	1178288.58	40.31246	-73.30425	-34.3
68	49767.68	1178242.46	40.30117	-73.30453	-35.0
69	57009.75	1182329.65	40.32095	-73.28967	-36.6
70	52894.69	1182283.52	40.30966	-73.28995	-35.0
71	56021.68	1186324.57	40.31815	-73.27537	-35.2
EW 1 OS1	63764.23	1138338.43	40.34036	-73.44727	-30.3
T1	36890.77	1166078.47	40.26608	-73.34848	-37.0
T2	39398.47	1170114.20	40.27288	-73.33395	-36.5
T3	42525.55	1174155.29	40.28138	-73.31938	-36.0
T4	45652.61	1178196.37	40.28987	-73.30481	-36.8
T5	48779.65	1182237.43	40.29837	-73.29024	-35.8
T6	51906.66	1186278.47	40.30686	-73.27566	-35.3
T7	55033.61	1190319.49	40.31535	-73.26108	-35.9

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.

USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512

WATERBODY: ATLANTIC OCEAN

ISSUED FOR USACE PERMIT APPLICATION
 SHEET 1 OF 1 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

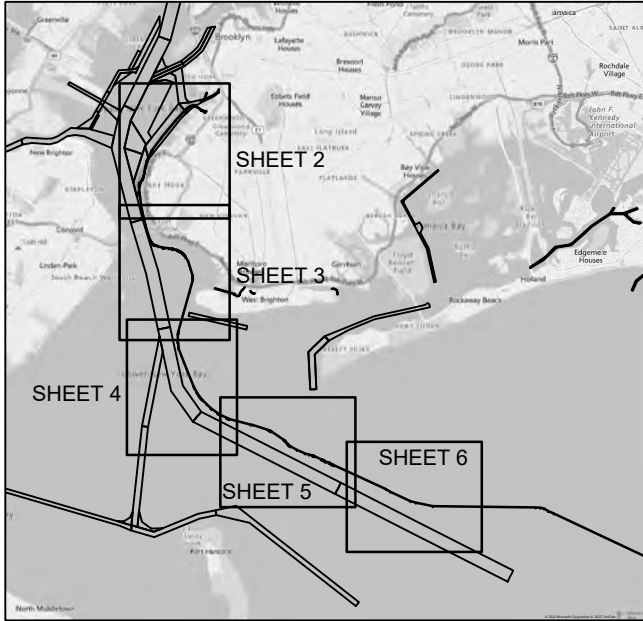
EMPIRE WIND 1
 FOUNDATION LOCATIONS
 AND WATER DEPTHS



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

DESIGN: R. GIFFORD
 Scale at ANSI A NTS
 NTS

Copyright: Tetra Tech



NOTES:

1. HORIZONTAL AND VERTICAL DATUM REFERENCED TO NEW YORK STATE PLANES, LONG ISLAND, US FOOT, NAD83.
2. BATHYMETRY WAS COLLECTED BY GARDLINE LTD. (2018 AND 2019). SURVEY ID EQ20540 AND EQ19548.
3. CABLE SEPARATION DISTANCE MAY CHANGE FOLLOWING ADDITIONAL ASSESSMENTS AND ENGINEERING.

USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL /
 EASE AREA OCS-A 0512

WATERBODY: GOWANUS BAY / ATLANTIC OCEAN

 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 1 OF 6 DATE: 11/3/22

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

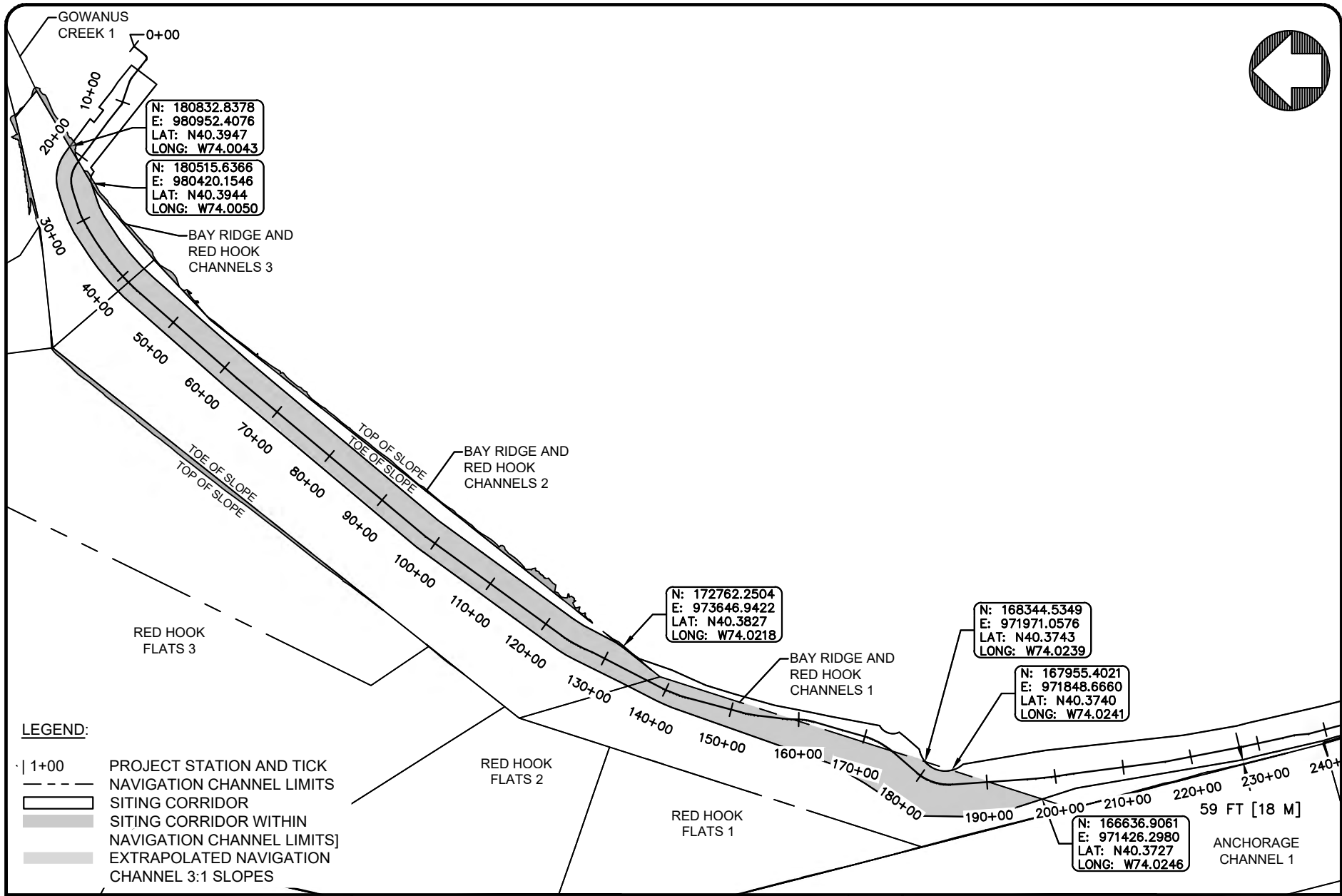
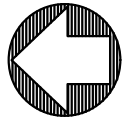
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 NAVIGATION CHANNEL
 LIMITS

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

DESN: R. GIFFORD

Copyright: Tetra Tech



LEGEND:

- | 1+00 PROJECT STATION AND TICK
- NAVIGATION CHANNEL LIMITS
- ▭ SITING CORRIDOR
- ▭ SITING CORRIDOR WITHIN NAVIGATION CHANNEL LIMITS
- ▭ EXTRAPOLATED NAVIGATION CHANNEL 3:1 SLOPES

USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / EASE AREA OCS-A 0512

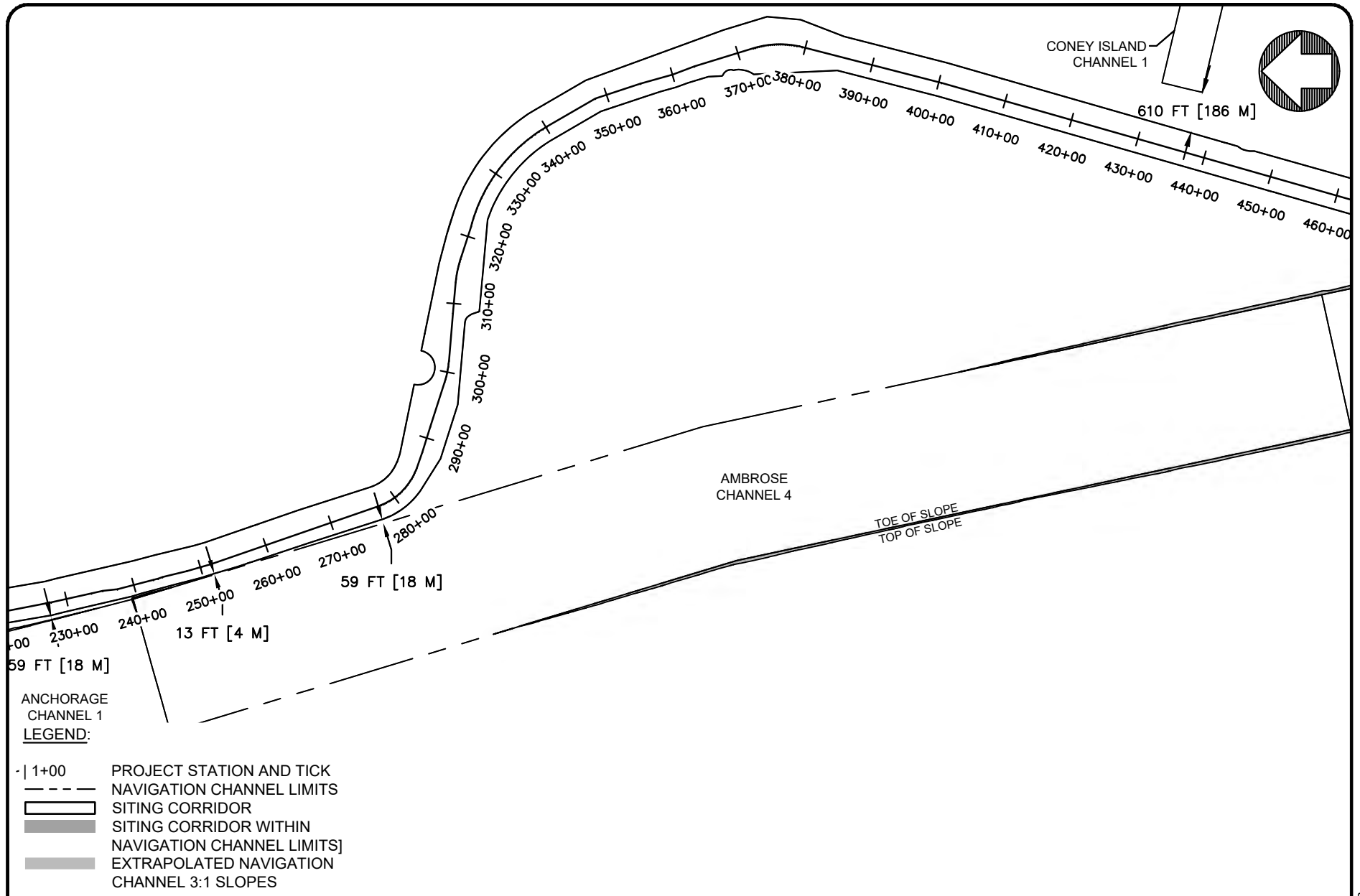
WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 2 OF 6 DATE: 11/3/22

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

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 1
 NAVIGATION CHANNEL LIMITS
 STA 0+00 - 230+00
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

DESN: R. GIFFORD
 Scale at ANSI A 1" = 400'
 Horizontal (feet)
 0 2,000 4,000

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / EASE AREA OCS-A 0512

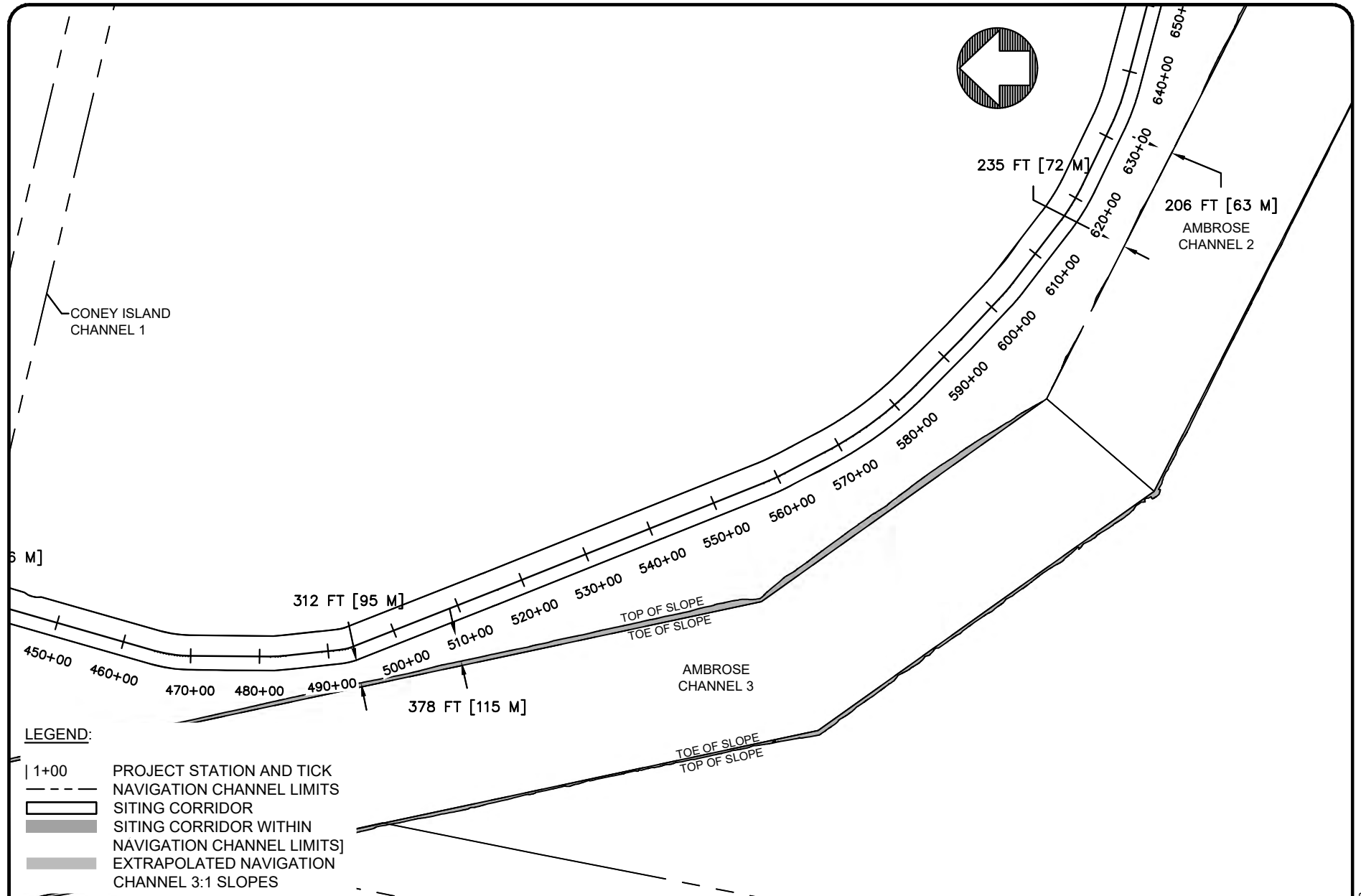
WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 3 OF 6 DATE: 11/3/22

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

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 1
 NAVIGATION CHANNEL LIMITS
 STA 230+00 - 450+00
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

DESIGN: R. GIFFORD
 Scale at ANSI A 1" = 4000'
 Horizontal (feet)
 0 2,000 4,000

Copyright: Tetra Tech



LEGEND:

- | 1+00 PROJECT STATION AND TICK
- - - - - NAVIGATION CHANNEL LIMITS
- ▭ SITING CORRIDOR
- ▭ SITING CORRIDOR WITHIN NAVIGATION CHANNEL LIMITS
- ▭ EXTRAPOLATED NAVIGATION CHANNEL 3:1 SLOPES

USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / EASE AREA OCS-A 0512

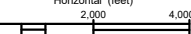
WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 4 OF 6 DATE: 11/3/22

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

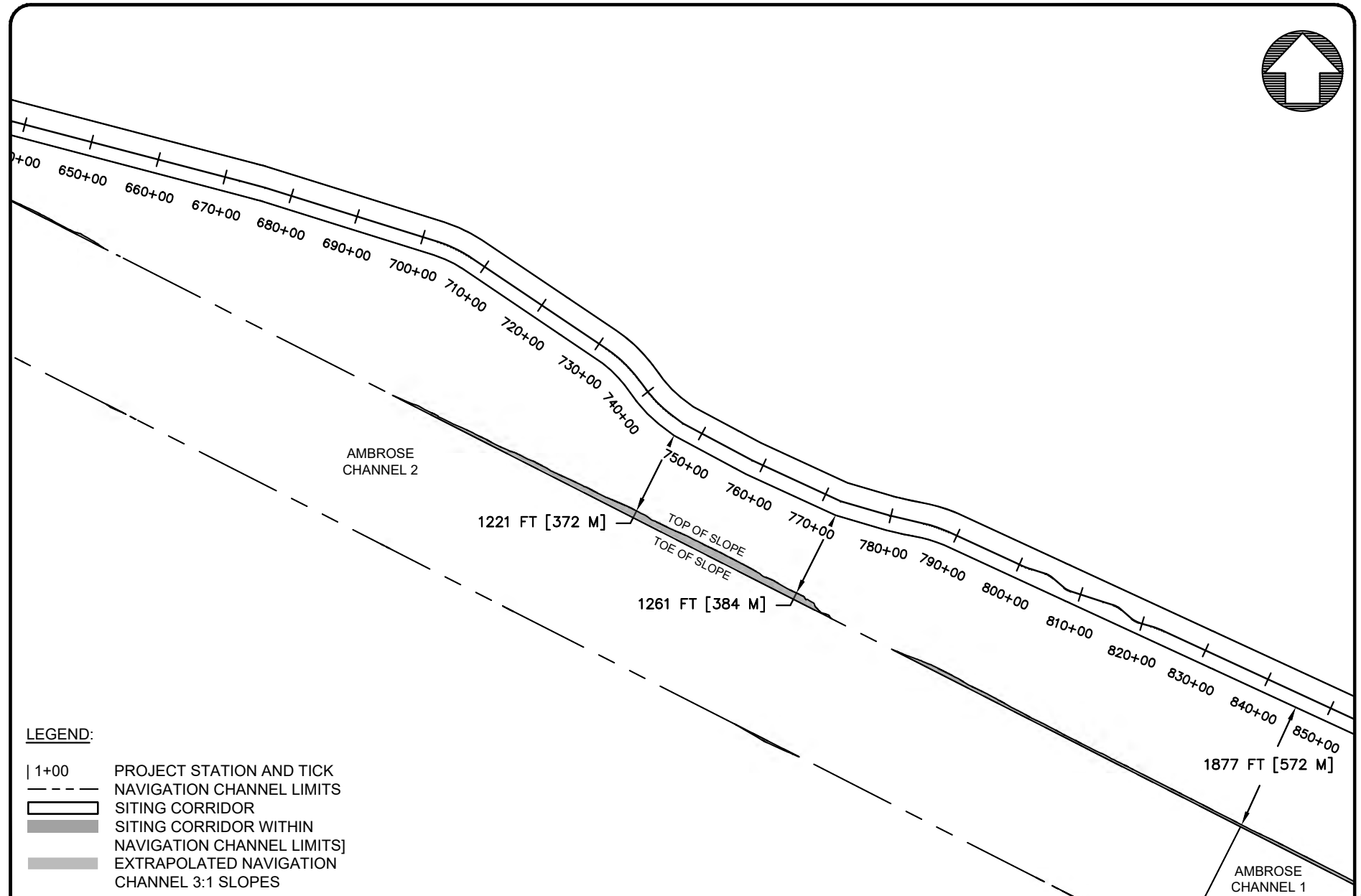
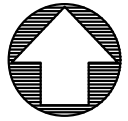
EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 1
 NAVIGATION CHANNEL LIMITS
 STA 450+00 - 640+00
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480



DESIGN: R. GIFFORD
 Scale at ANSI A 1" = 4000'
 Horizontal (feet)
 0 2,000 4,000



Copyright: Tetra Tech



LEGEND:

- | 1+00 PROJECT STATION AND TICK
- - - - - NAVIGATION CHANNEL LIMITS
- ▭ SITING CORRIDOR
- ▭ SITING CORRIDOR WITHIN NAVIGATION CHANNEL LIMITS
- ▭ EXTRAPOLATED NAVIGATION CHANNEL 3:1 SLOPES

USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL /
 EASE AREA OCS-A 0512

WATERBODY: GOWANUS BAY / ATLANTIC OCEAN

 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 5 OF 6 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 1
 NAVIGATION CHANNEL LIMITS
 STA 650+00 - 840+00

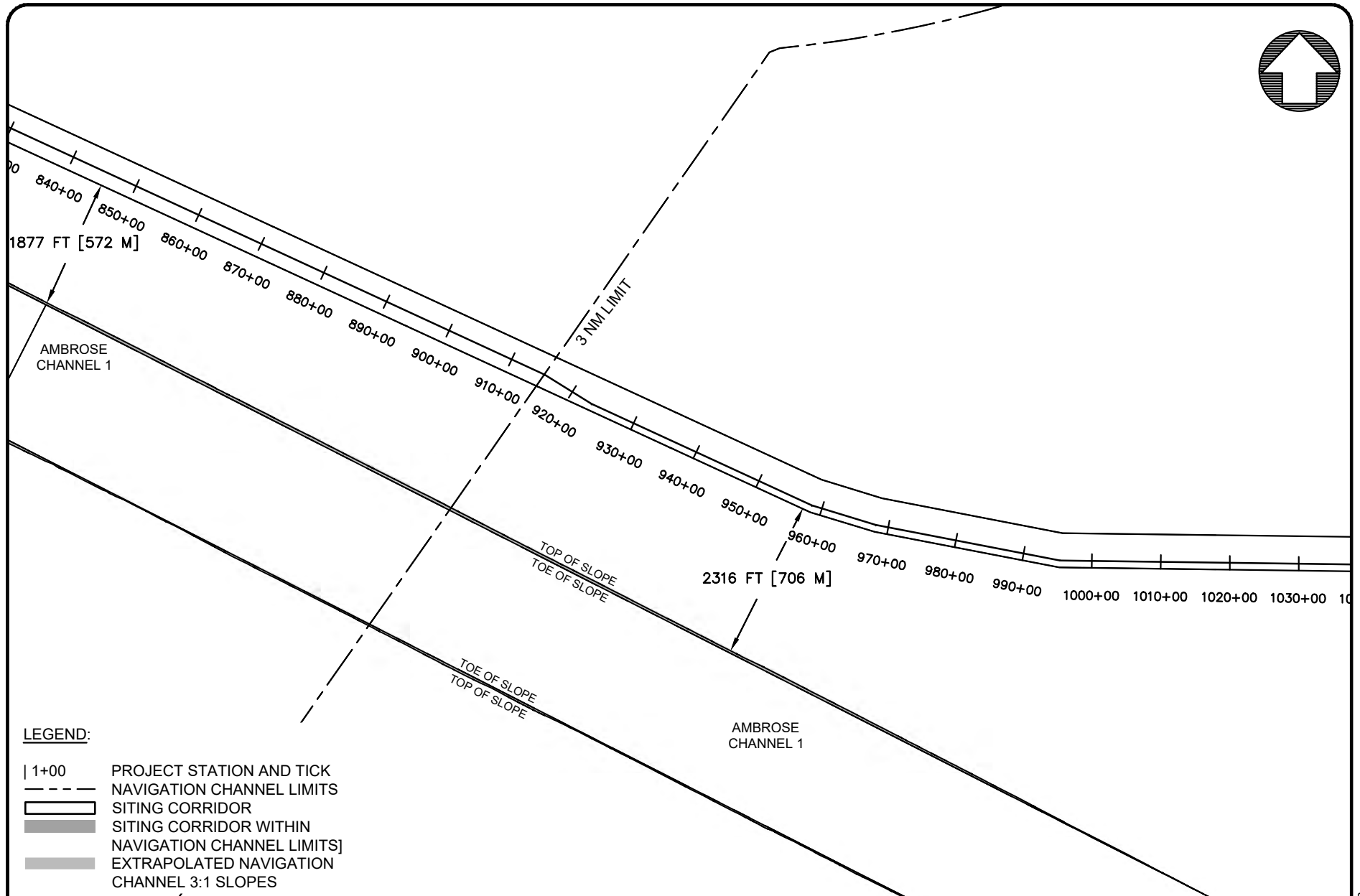
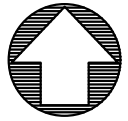
WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

DESIGN: R. GIFFORD

Scale at ANSI A 1" = 4000'

Horizontal (feet)
 0 2,000 4,000

Copyright: Tetra Tech



LEGEND:

- | 1+00 PROJECT STATION AND TICK
- - - - - NAVIGATION CHANNEL LIMITS
- ▭ SITING CORRIDOR
- ▭ SITING CORRIDOR WITHIN NAVIGATION CHANNEL LIMITS]
- ▭ EXTRAPOLATED NAVIGATION CHANNEL 3:1 SLOPES

USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL /
 EASE AREA OCS-A 0512

WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 6 OF 6 DATE: 11/3/22

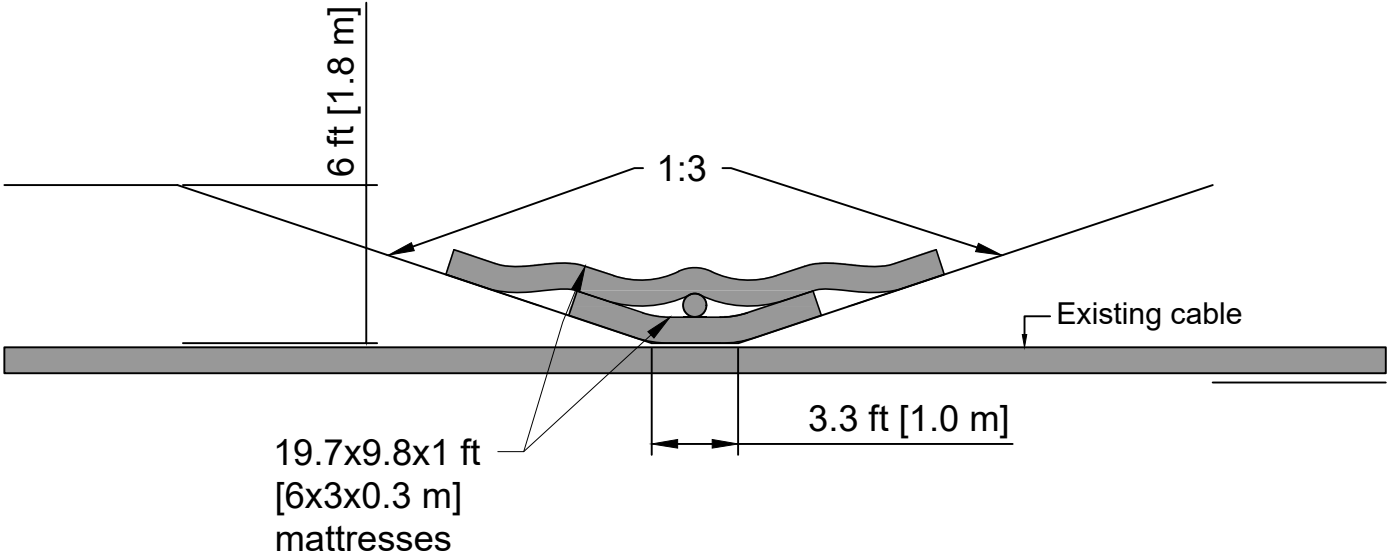
NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 1
 NAVIGATION CHANNEL LIMITS
 STA 840+00 - 1030+00

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

DESN: R. GIFFORD
 Scale at ANSI A 1" = 4000'
 Horizontal (feet)
 0 2,000 4,000

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512

WATERBODY: ATLANTIC OCEAN

 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 1 OF 1 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

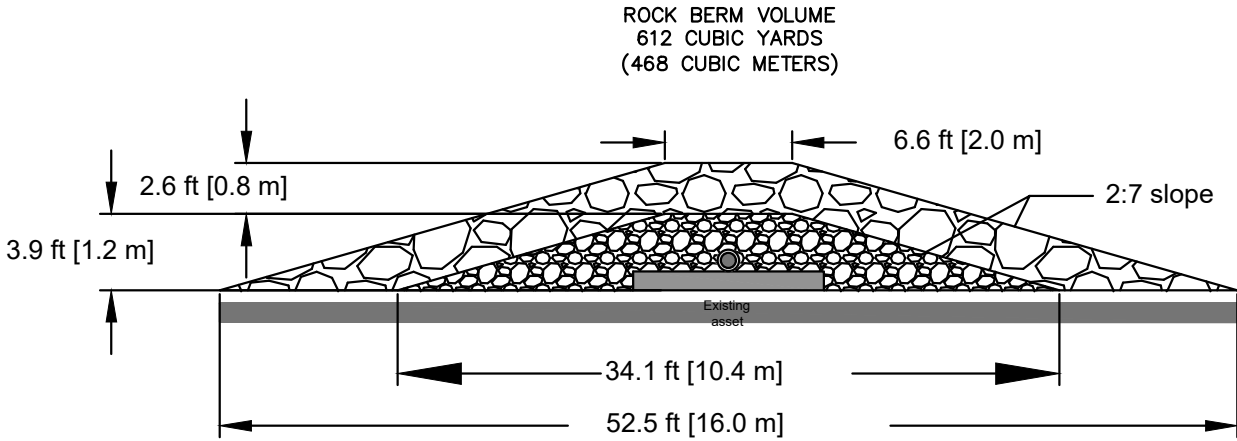
 EMPIRE WIND 1
 DOUBLE MATTRESS
 CROSSING DETAIL (TYP.)


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

DESN: R. GIFFORD
 Scale at ANSI A NTS

 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.

USACE # NAN-2022-00901-EMI EMPIRE WIND 1
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512

WATERBODY: ATLANTIC OCEAN

 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 1 OF 1 DATE: 11/3/22

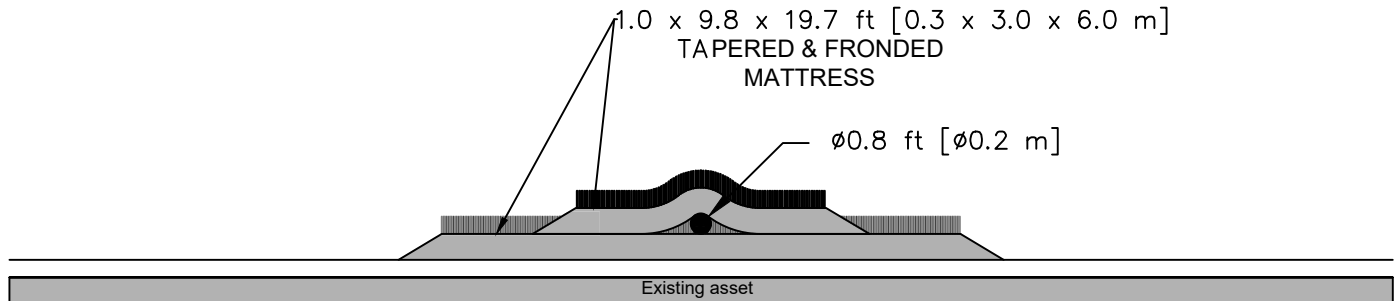
NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 1
 ROCK BERM CROSSING
 DETAIL (TYP.)

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

DESIGN: R. GIFFORD
 Scale at ANSI A NTS
 NTS

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512

WATERBODY: ATLANTIC OCEAN

ISSUED FOR USACE PERMIT APPLICATION
 SHEET 1 OF 1 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 1
 FRONDED MATTRESS
 CROSSING DETAIL (TYP.)

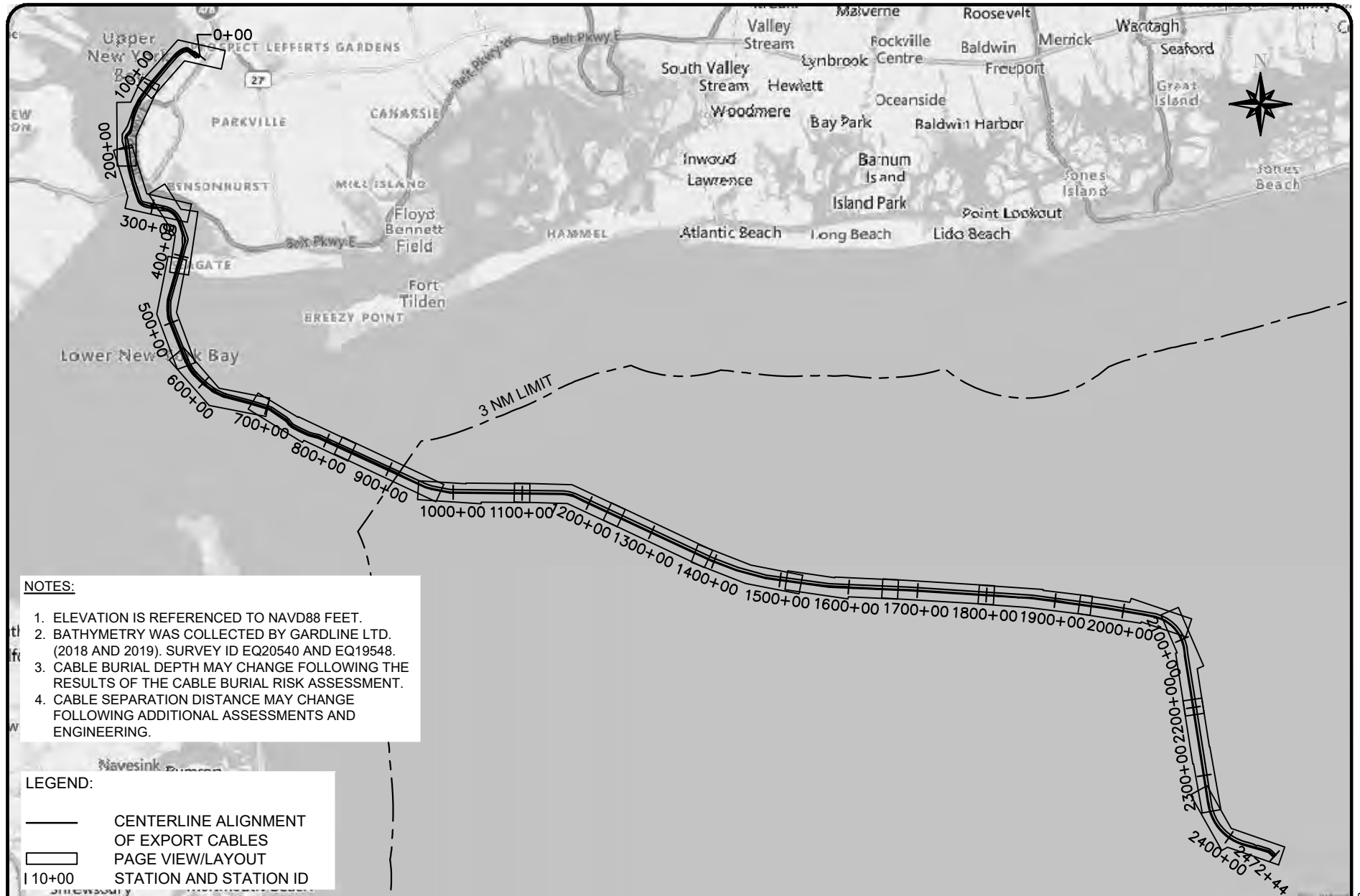
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

DESN: R. GIFFORD

Scale at ANSI A NTS

NTS

Copyright: Tetra Tech



- NOTES:**
1. ELEVATION IS REFERENCED TO NAVD88 FEET.
 2. BATHYMETRY WAS COLLECTED BY GARDLINE LTD. (2018 AND 2019). SURVEY ID EQ20540 AND EQ19548.
 3. 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

USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512

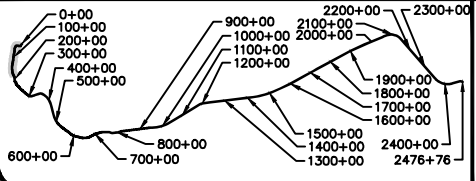
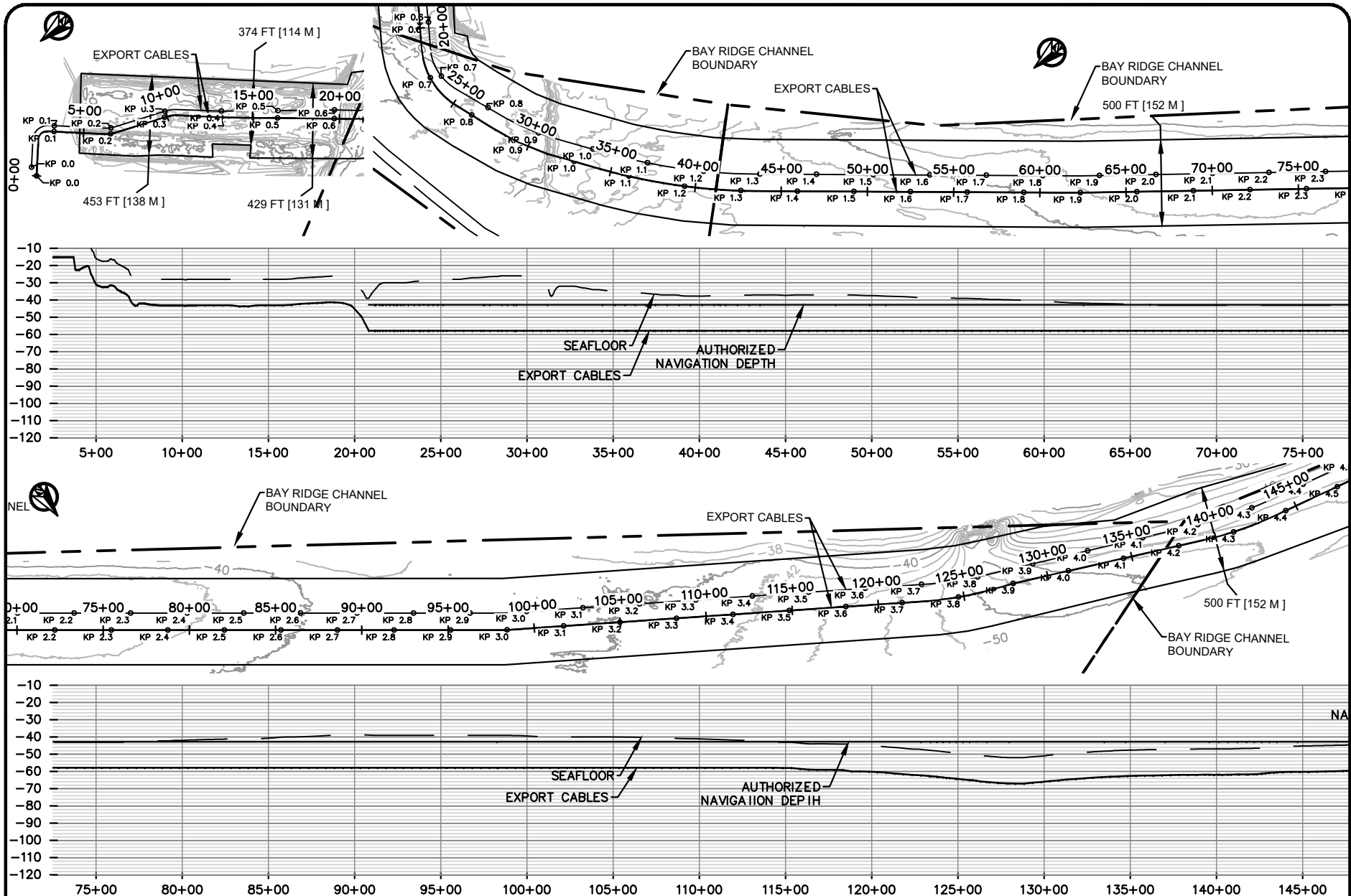
WATERBODY: GOWANUS BAY / ATLANTIC OCEAN

 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 1 OF 19 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	DESN: R. GIFFORD
EMPIRE WIND 1 OVERALL PLAN VIEW	
 WWW.TETRATECH.COM 10 POST OFFICE SQUARE, 11TH FLOOR BOSTON, MA 02109 Phone: (617) 443-7500 Fax: (617) 737-3480	

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 2 OF 19 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

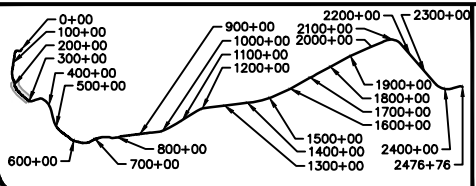
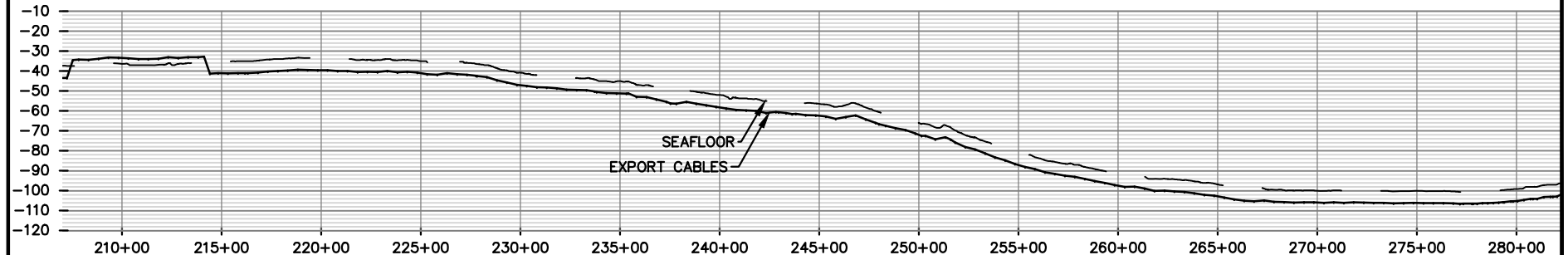
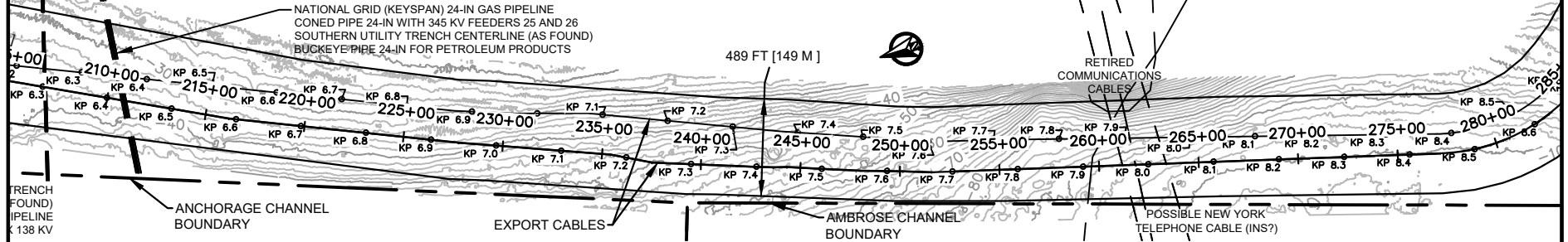
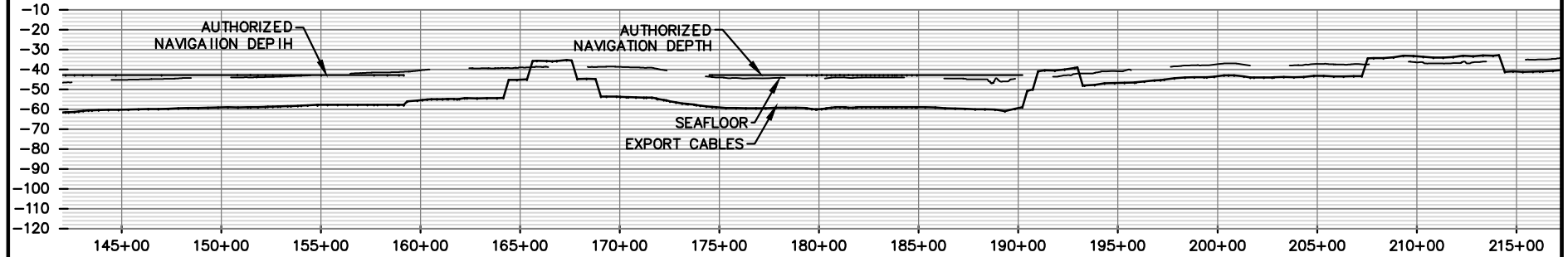
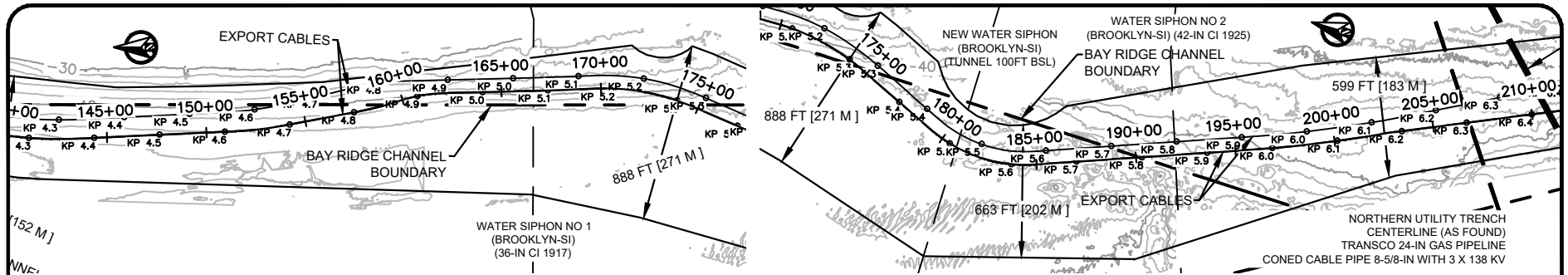
EMPIRE WIND 1
 PLAN AND PROFILES
 STA 0+00 - 145+00

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

DESIGN: R. GIFFORD

Horizontal (feet): 0, 400, 800
 Vertical (feet): 0, 40, 80

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 3 OF 19 DATE: 11/3/22

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

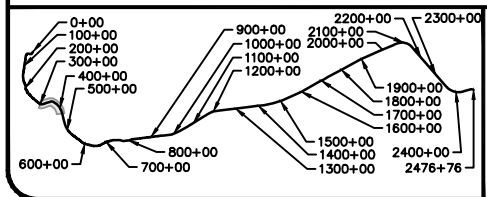
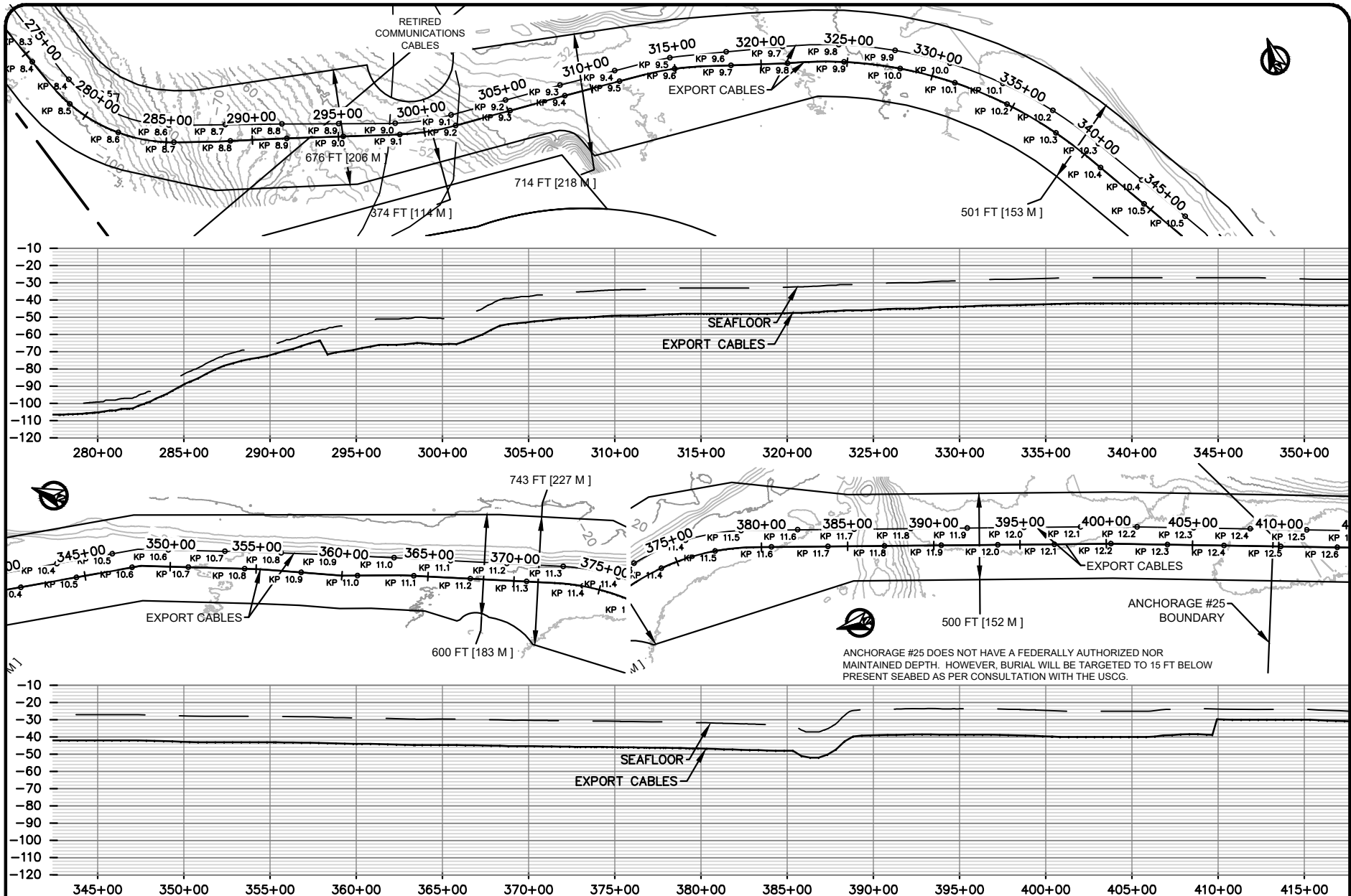
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 145+00 - 280+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 3 OF 19 DATE: 11/3/22

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

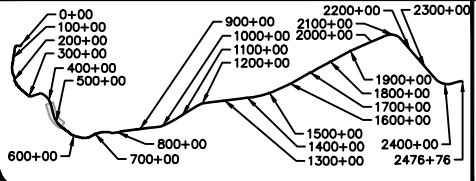
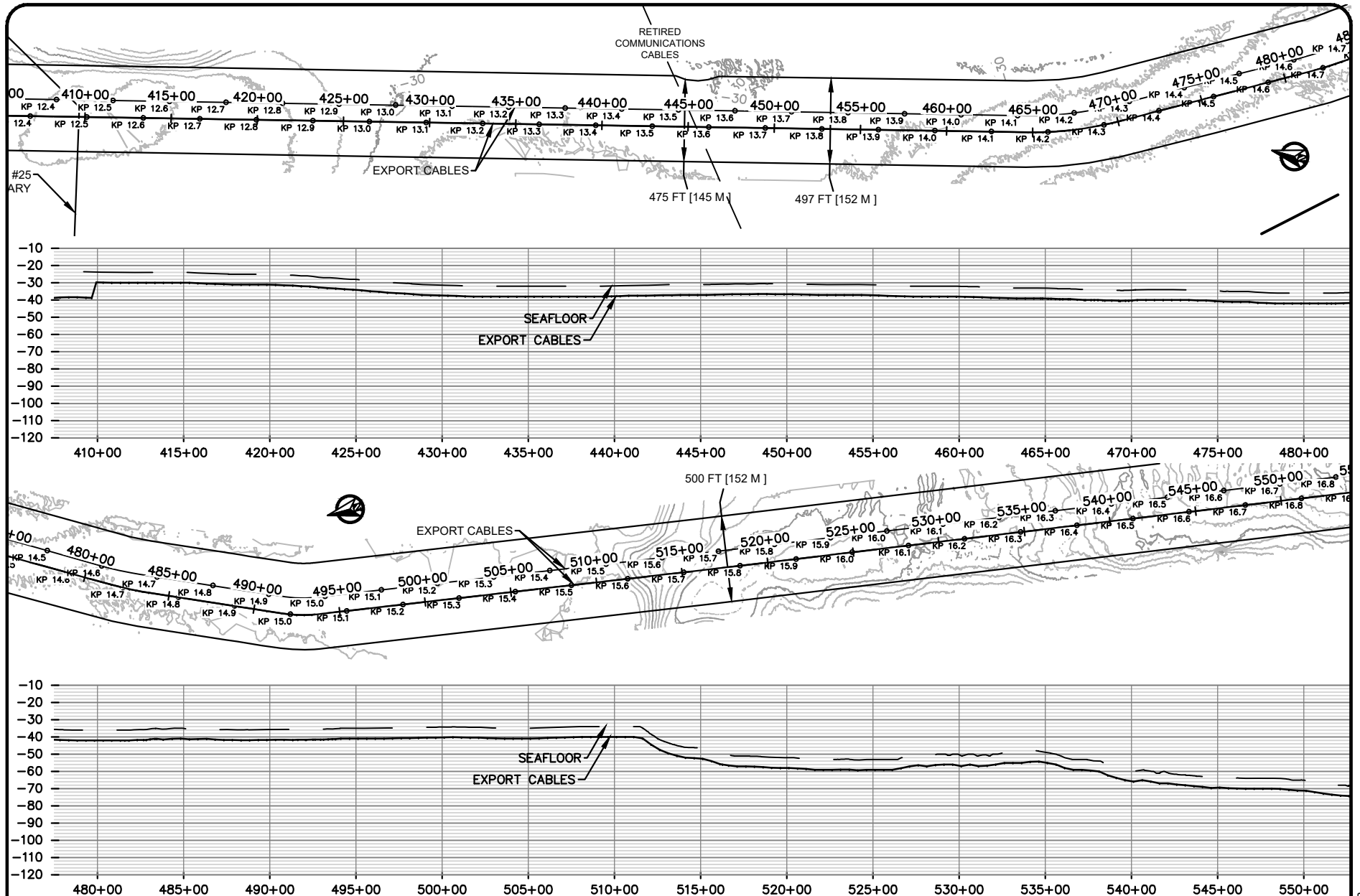
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 280+00 - 410+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 5 OF 19 DATE: 11/3/22

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

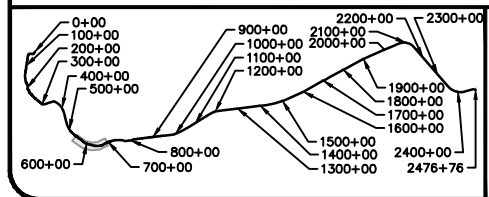
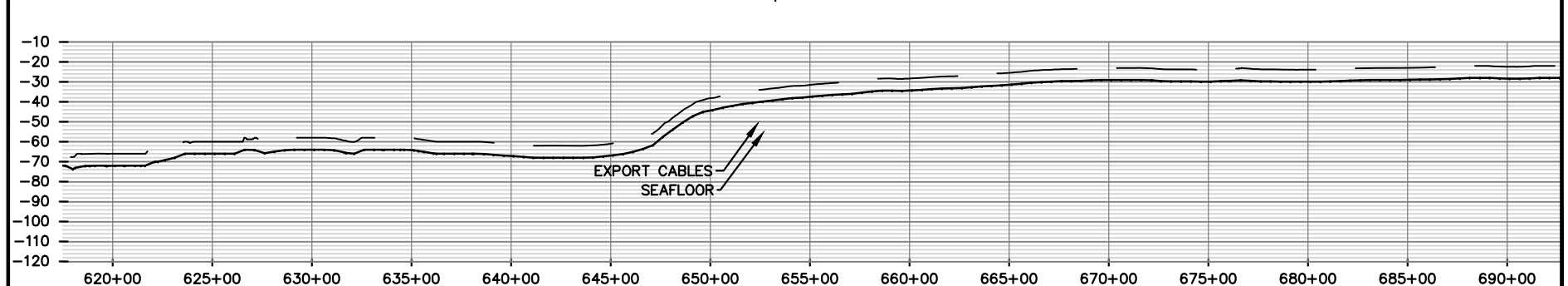
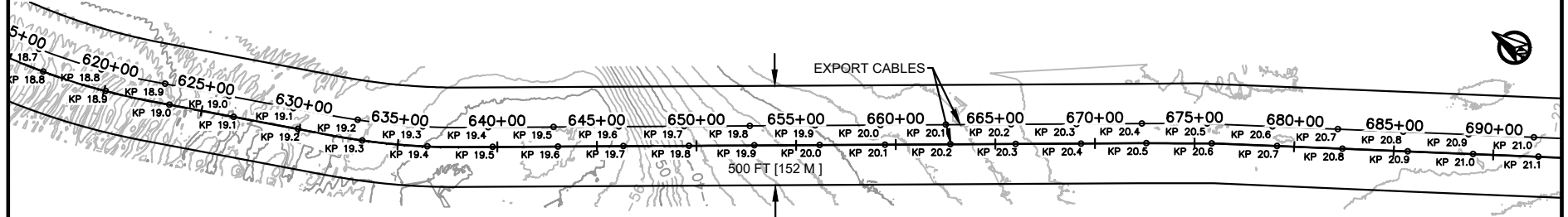
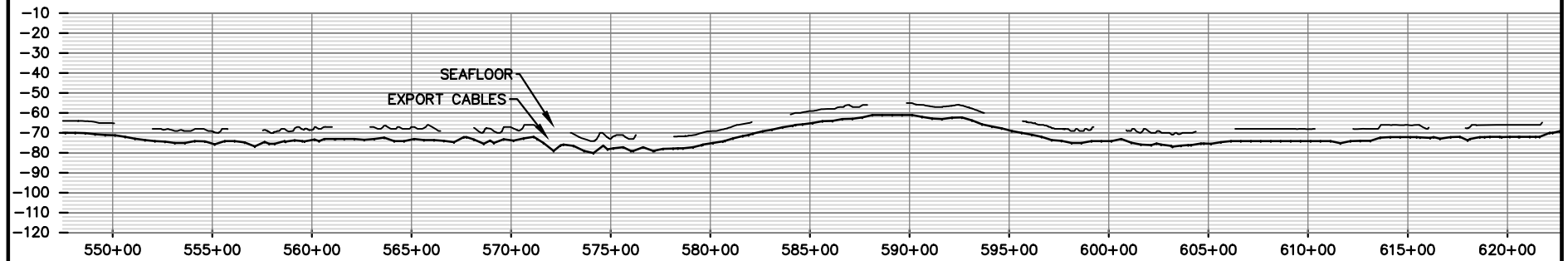
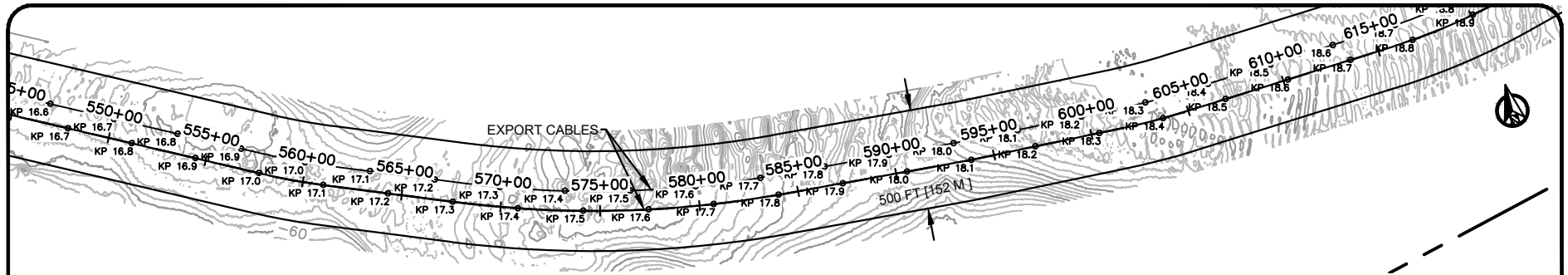
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 410+00 - 550+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 6 OF 19 DATE: 11/3/22

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

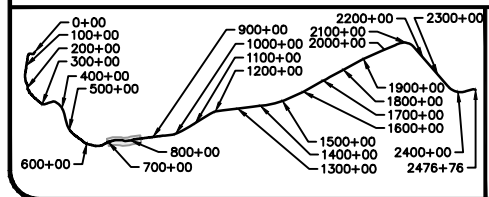
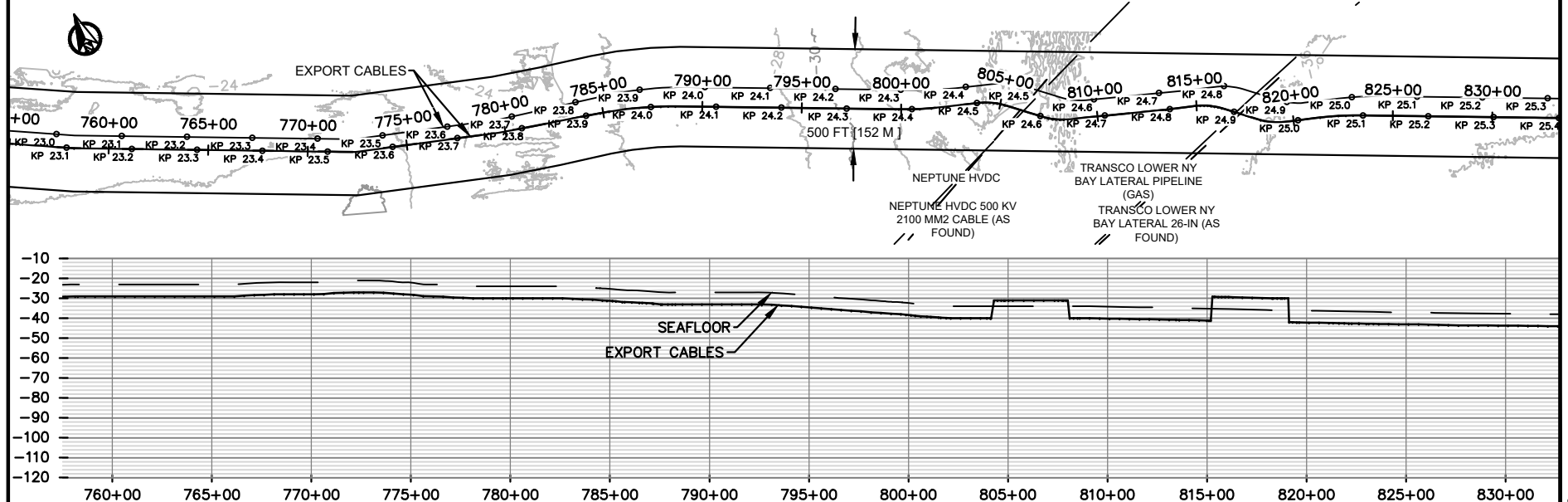
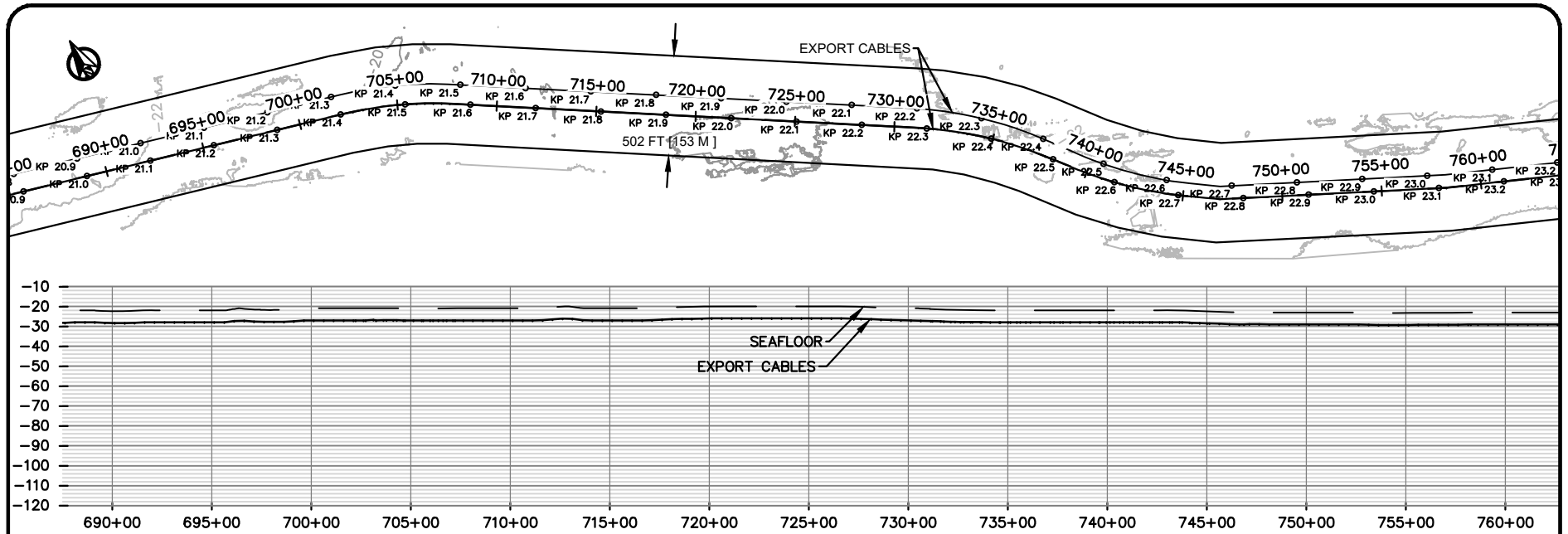
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 550+00 - 690+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 7 OF 19 DATE: 11/3/22

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

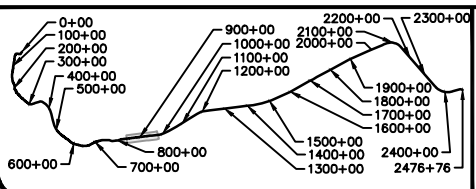
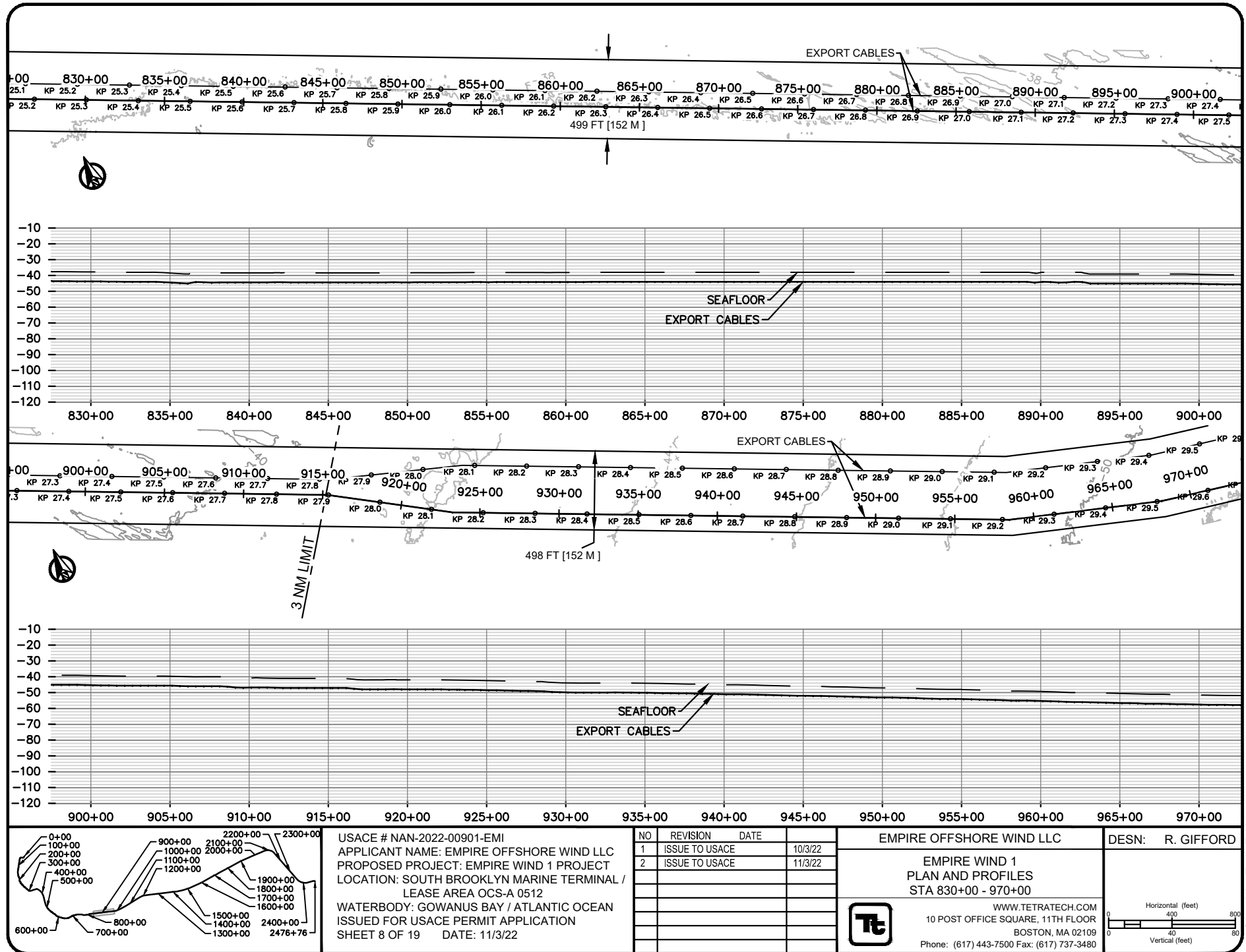
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 690+00 - 830+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 8 OF 19 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

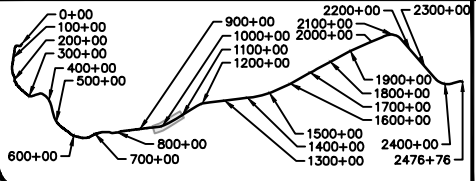
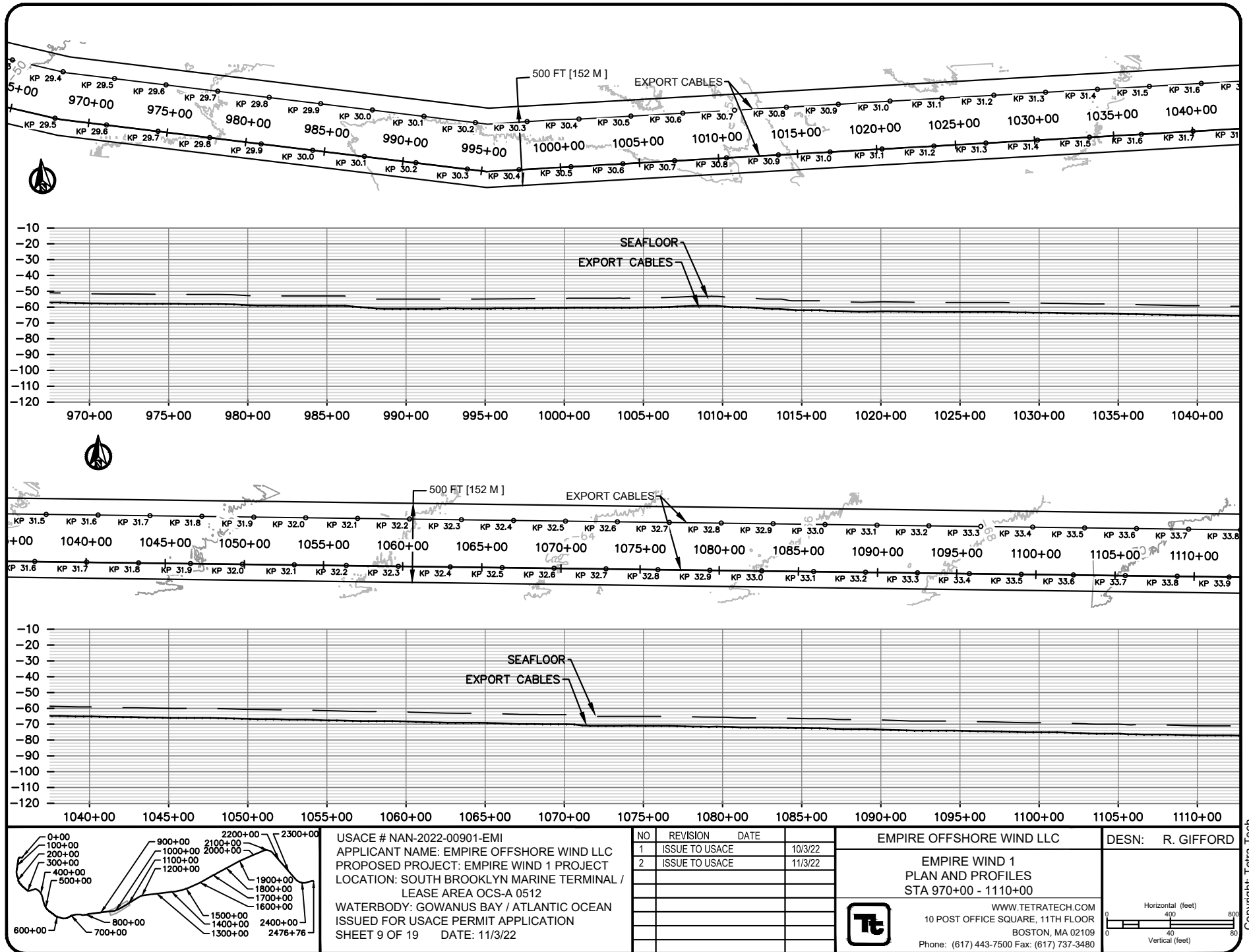
EMPIRE WIND 1
 PLAN AND PROFILES
 STA 830+00 - 970+00

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

DESIGN: R. GIFFORD

Horizontal (feet)
 0 40 80
 Vertical (feet)
 0 40 80

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 9 OF 19 DATE: 11/3/22

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

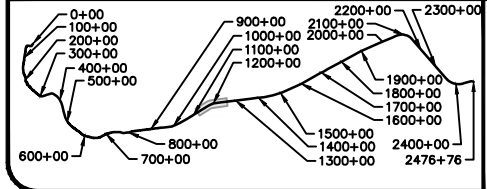
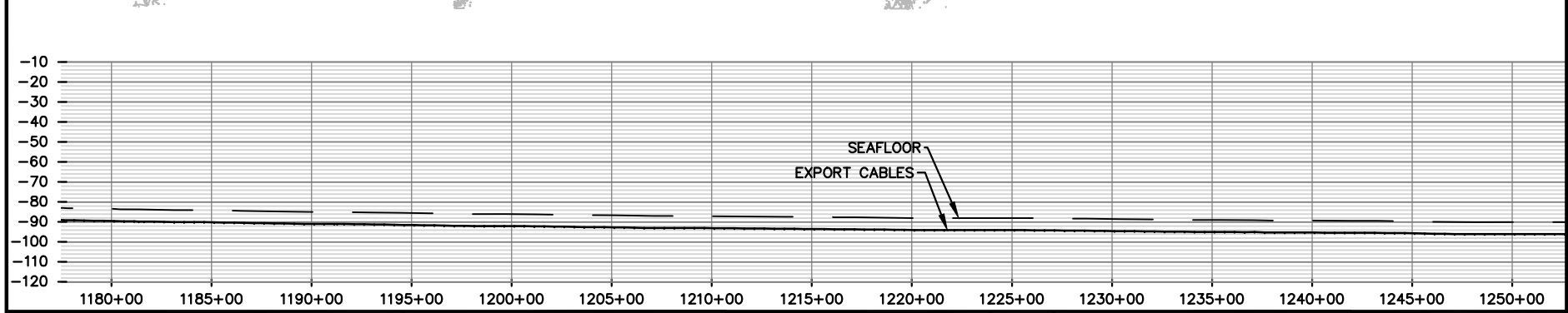
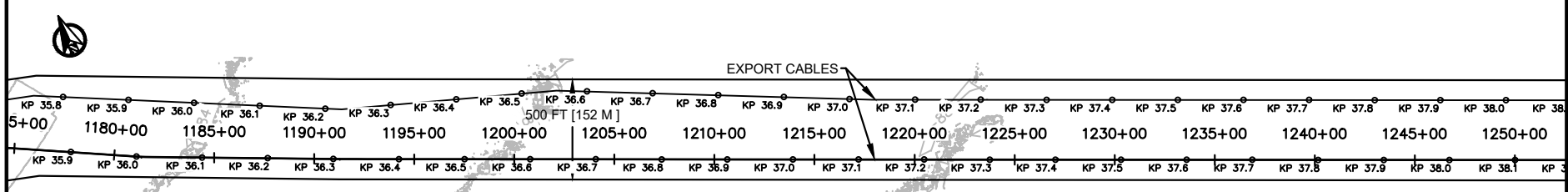
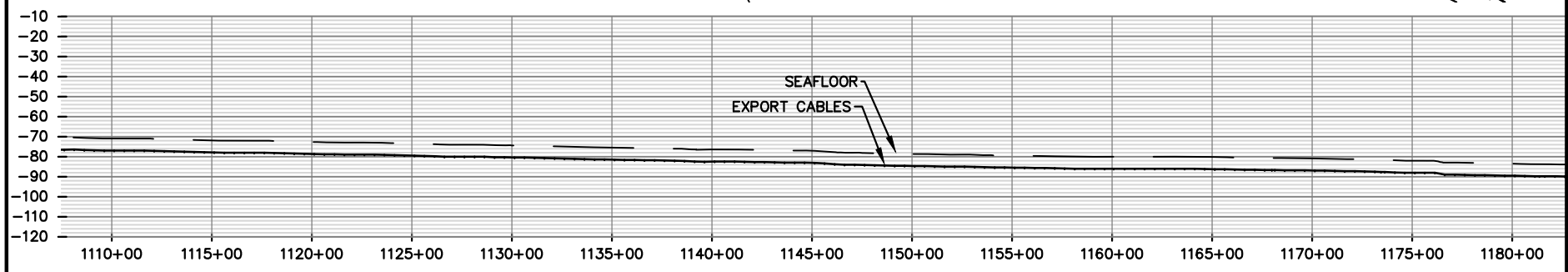
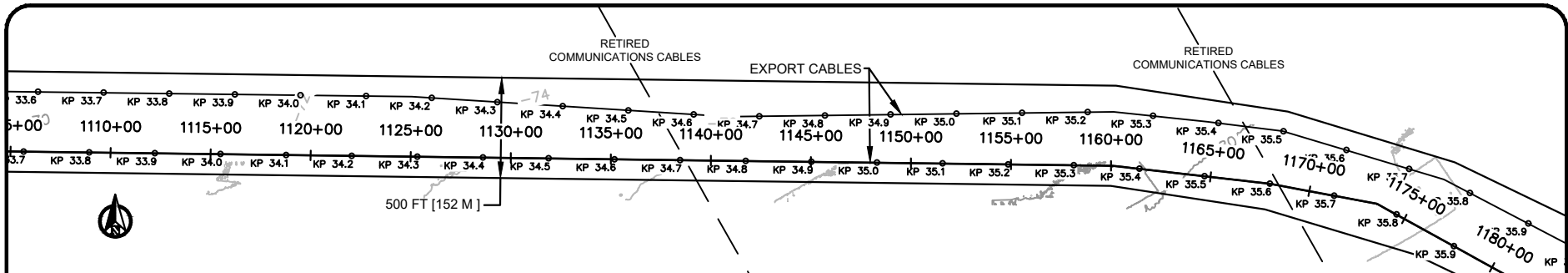
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 970+00 - 1110+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 10 OF 19 DATE: 11/3/22

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

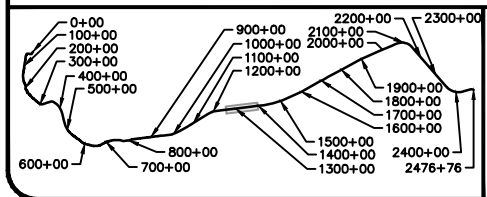
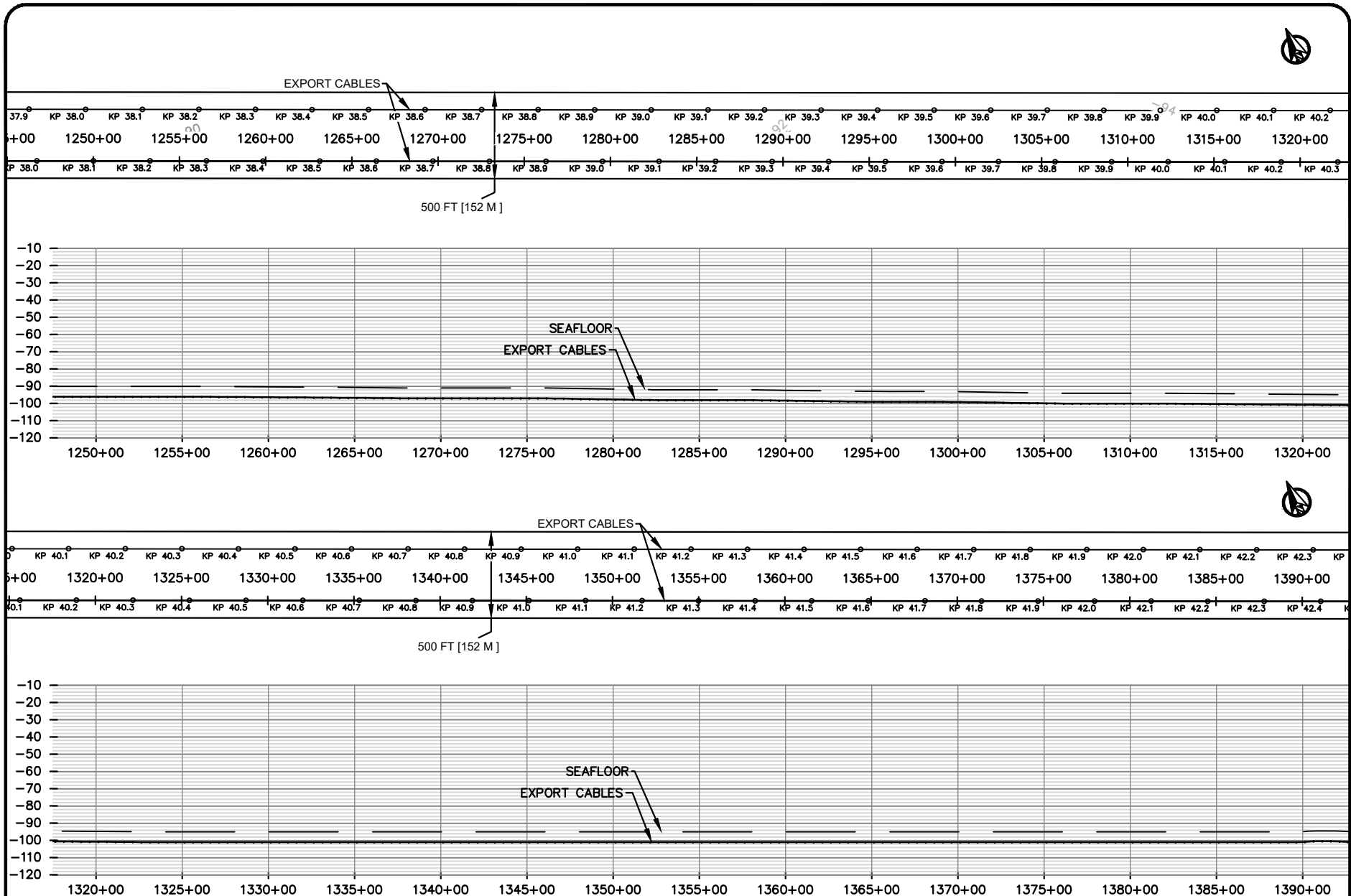
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 1110+00 - 1250+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL /
 LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 11 OF 19 DATE: 11/3/22

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

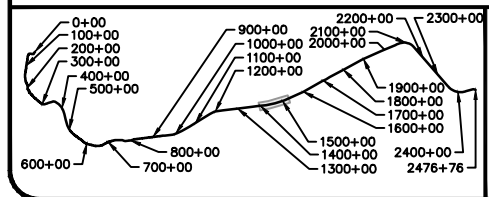
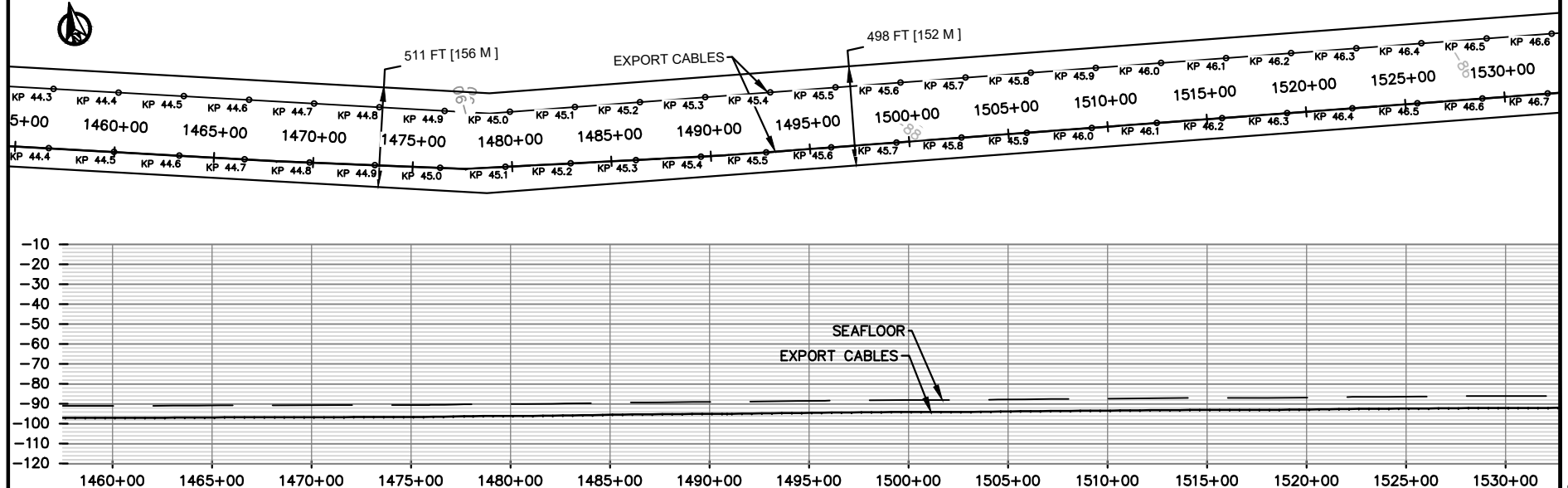
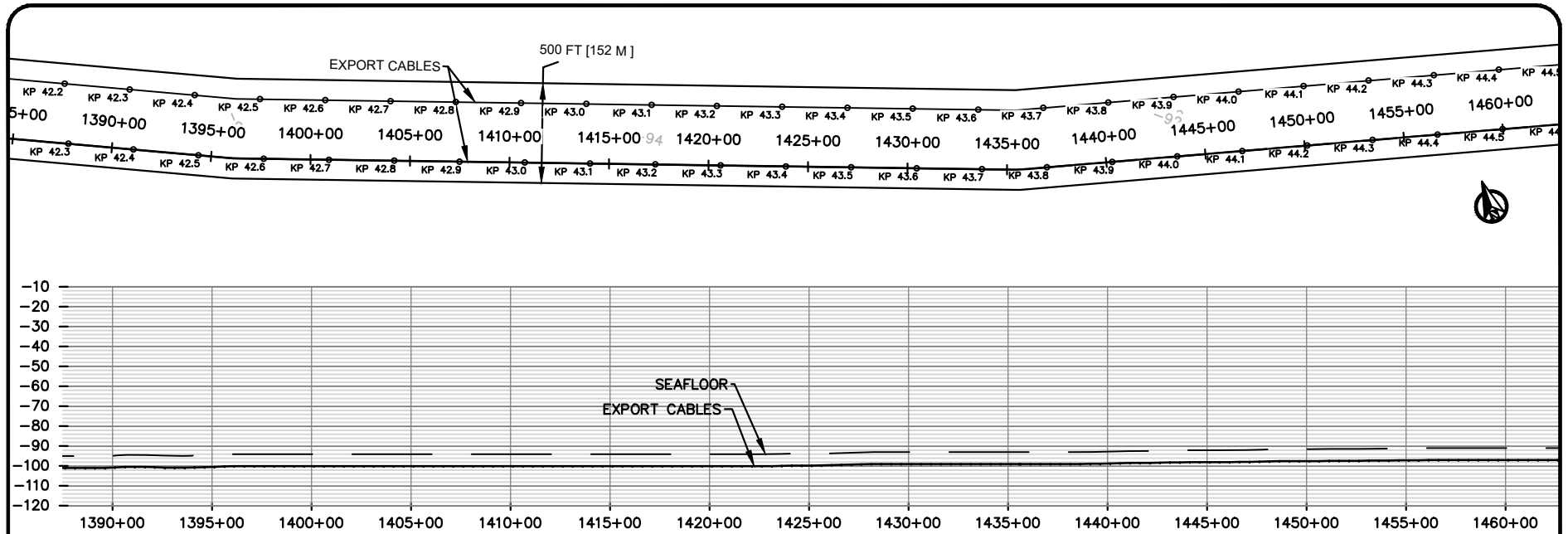
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 1250+00 - 1390+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 12 OF 19 DATE: 11/3/22

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

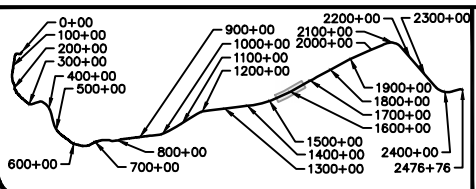
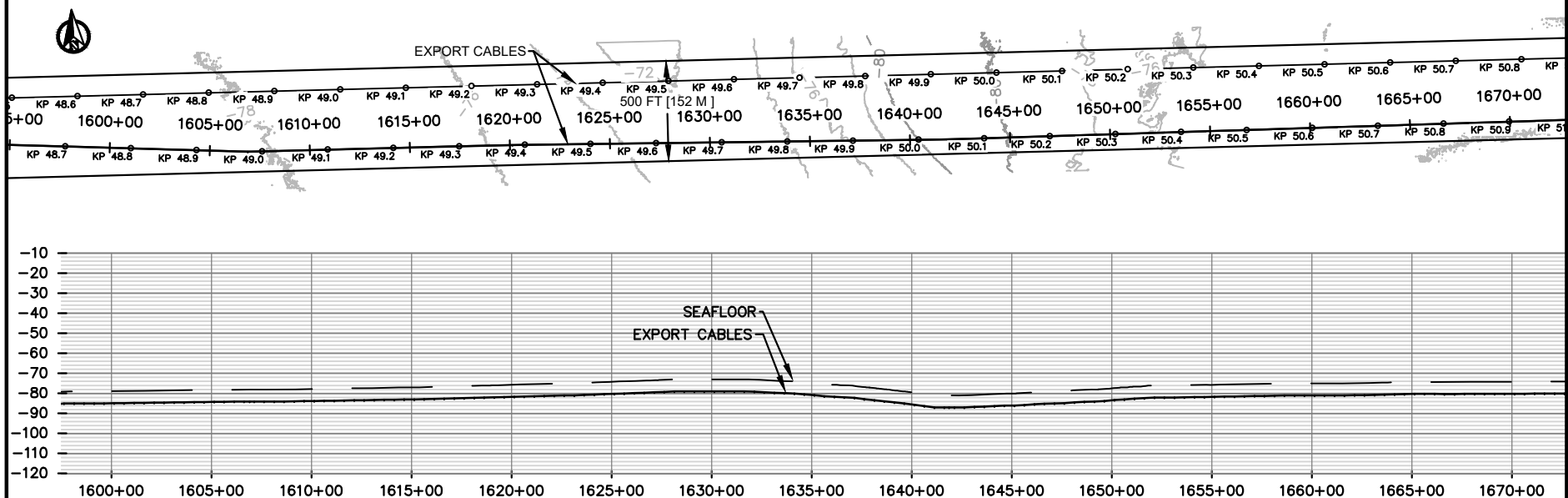
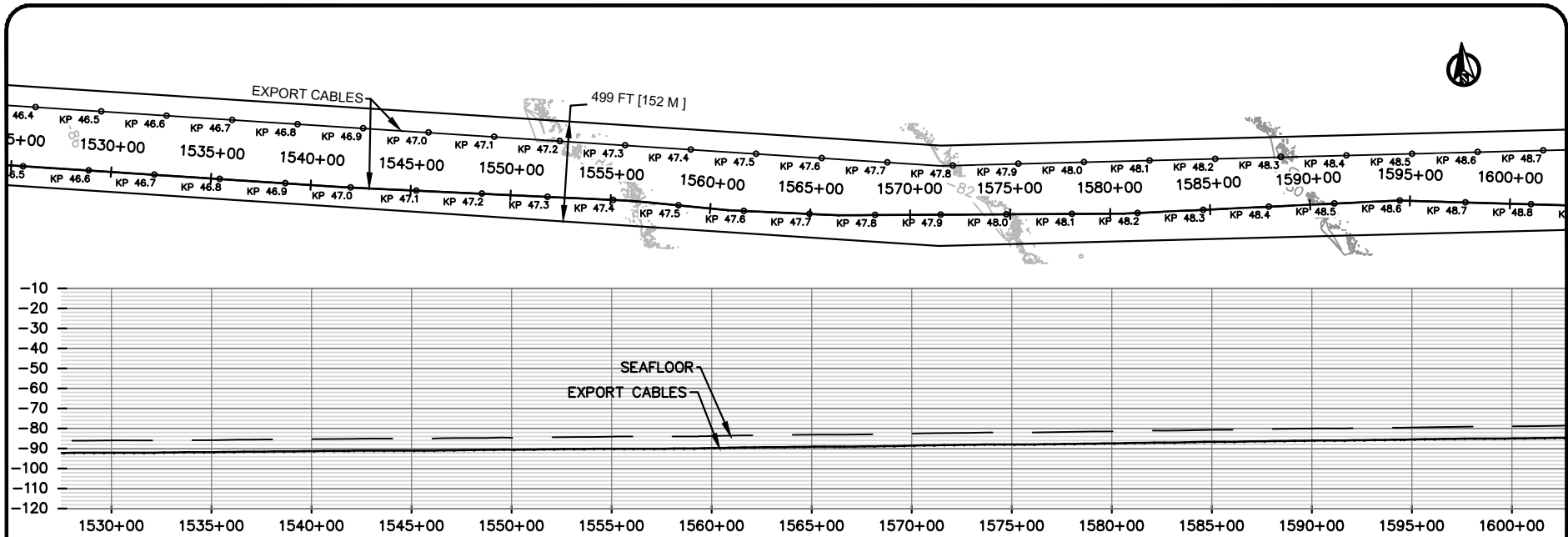
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 1390+00 - 1530+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL /
 LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 13 OF 19 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 1
 PLAN AND PROFILES
 STA 1530+00 - 1670+00

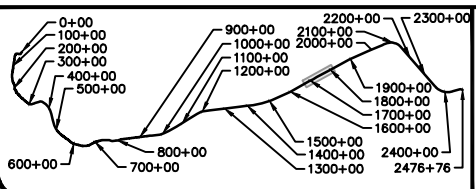
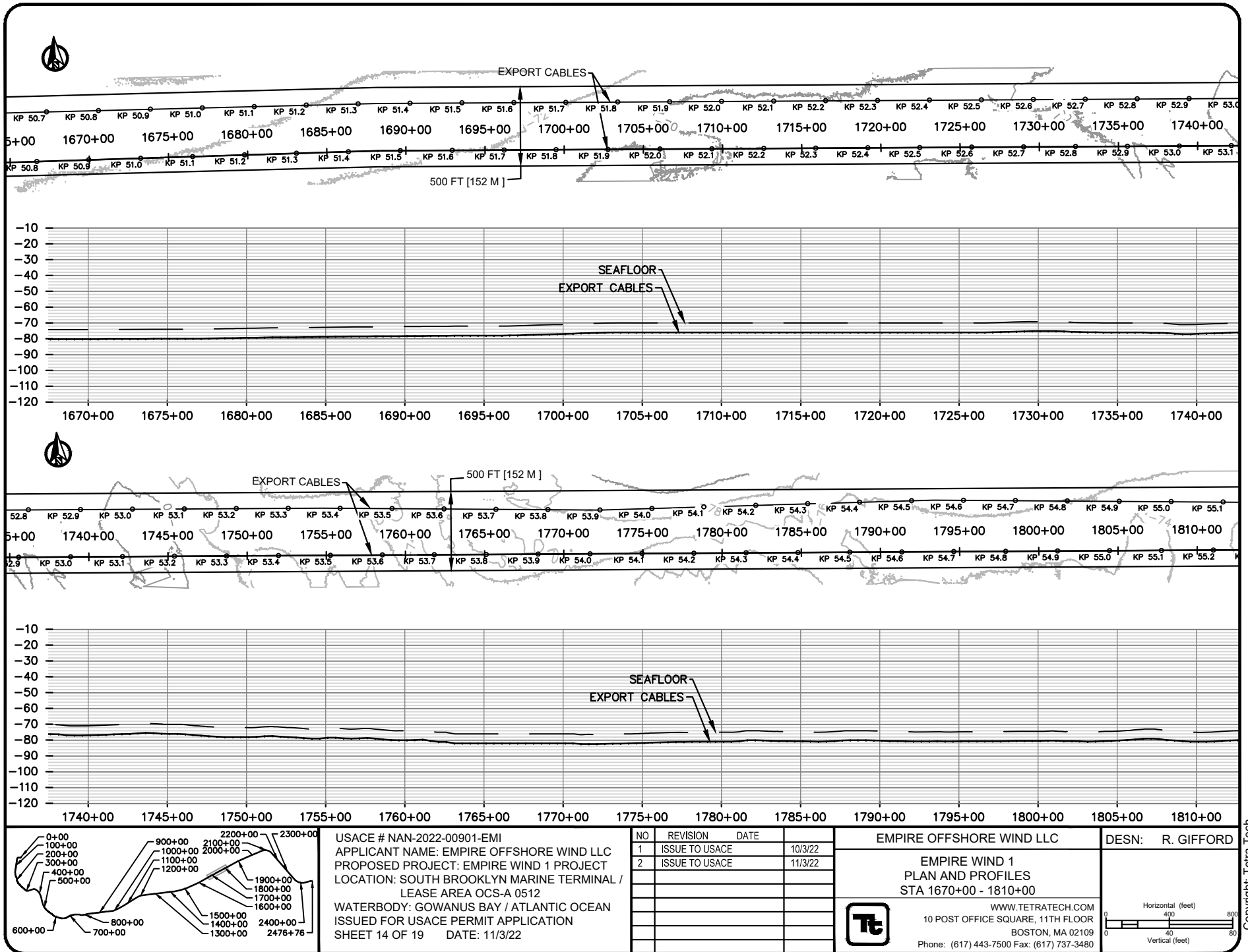
WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

DESIGN: R. GIFFORD

Horizontal (feet)

Vertical (feet)

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL /
 LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 14 OF 19 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 1
 PLAN AND PROFILES
 STA 1670+00 - 1810+00

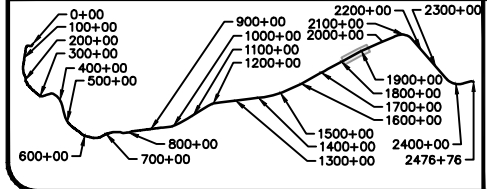
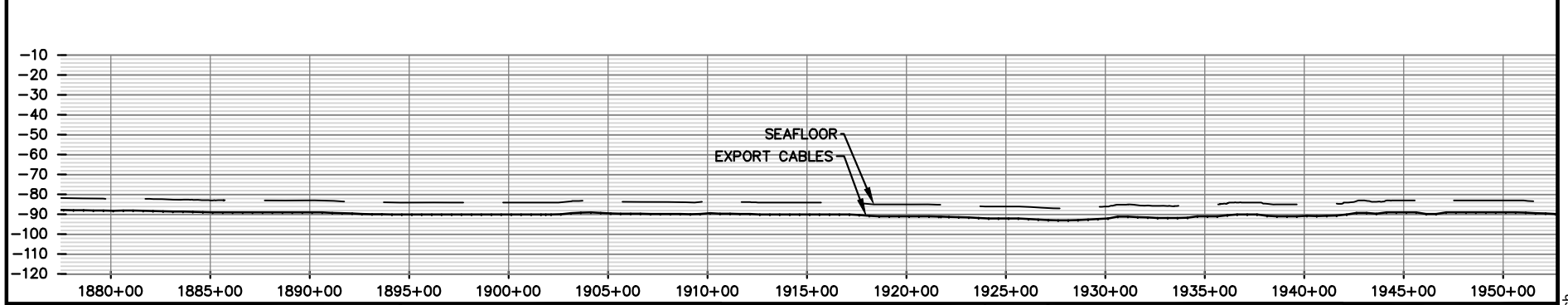
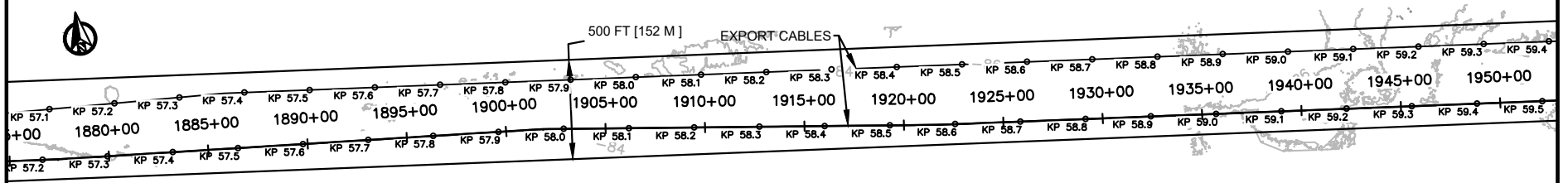
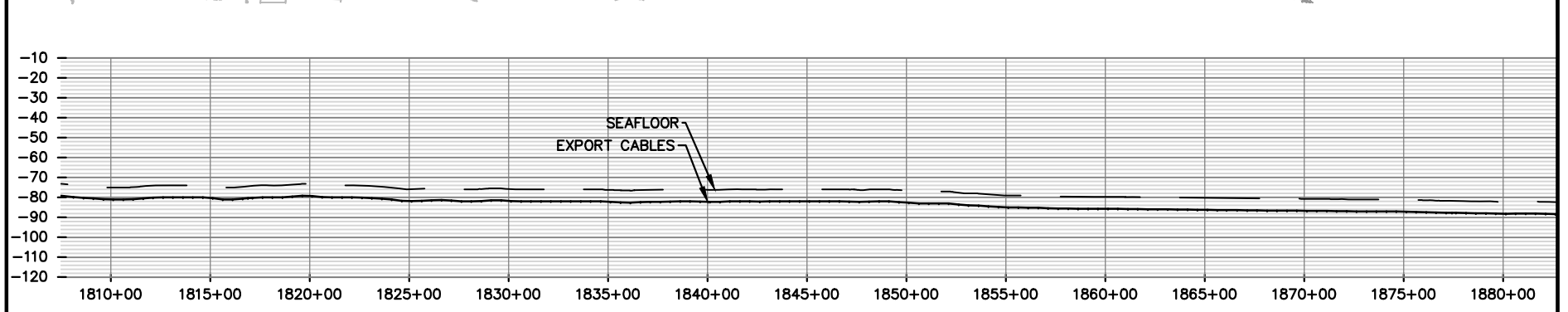
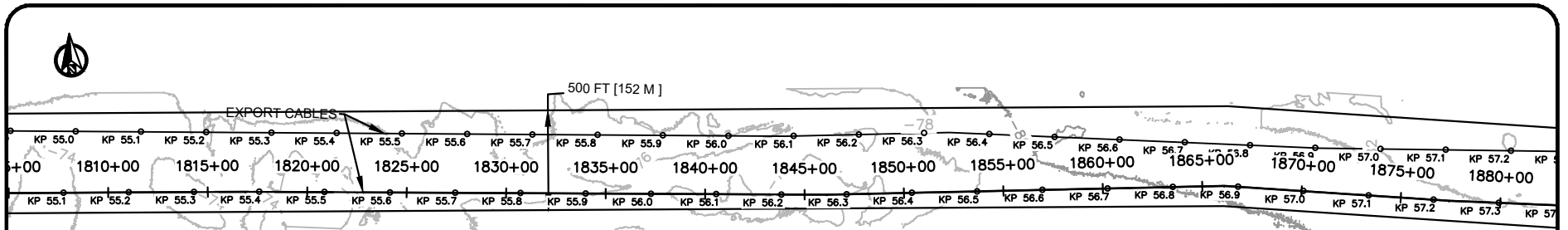
WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

DESIGN: R. GIFFORD

Horizontal (feet)
 0 400 800

Vertical (feet)
 0 40 80

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL /
 LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 15 OF 19 DATE: 11/3/22

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

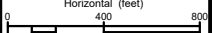
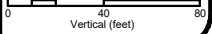
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 1810+00 - 1950+00

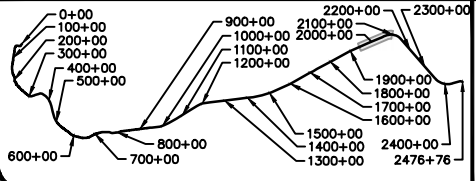
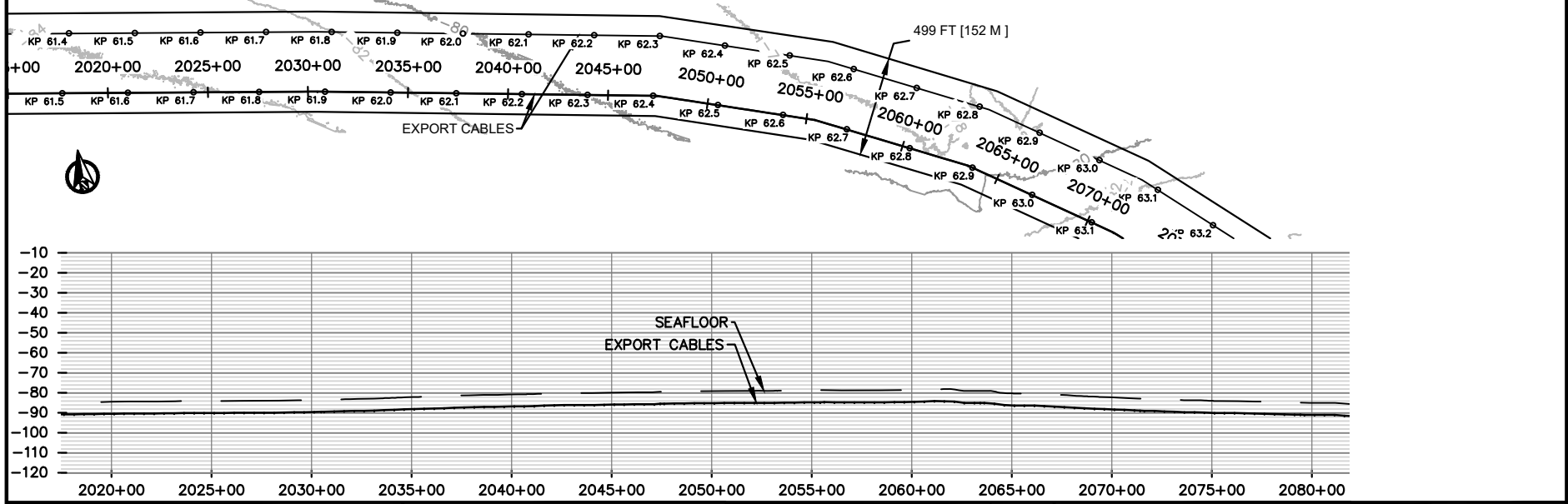
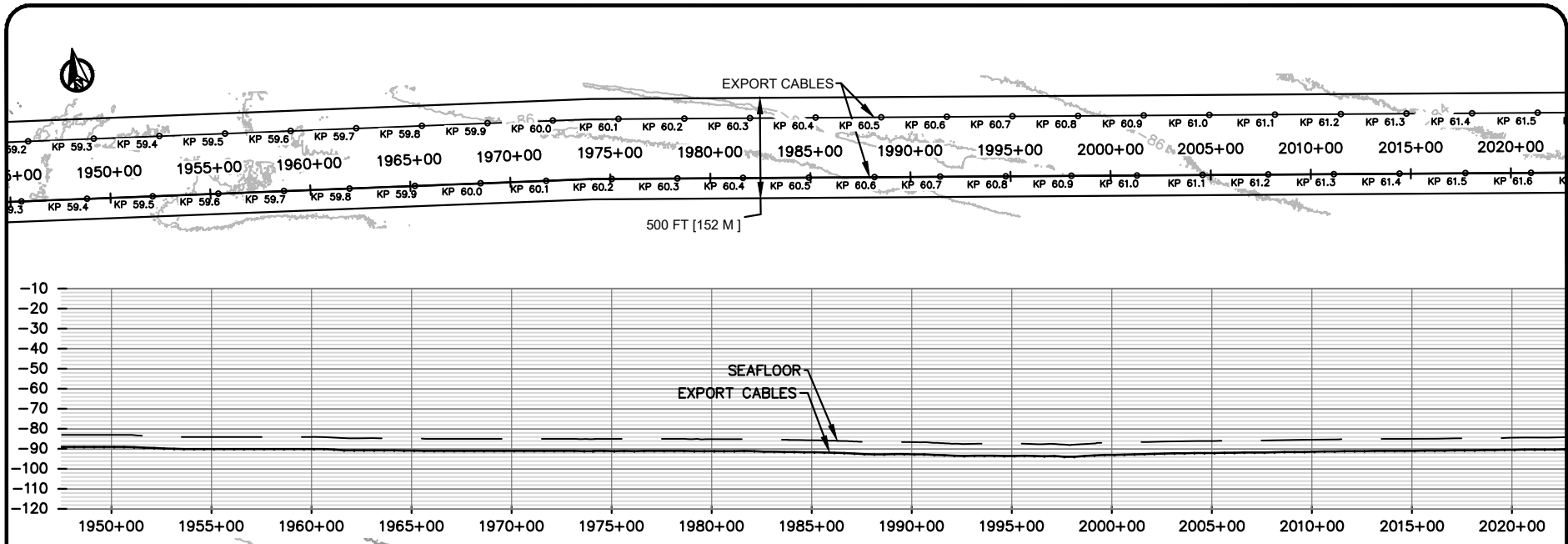
WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480



DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL /
 LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 16 OF 19 DATE: 11/3/22

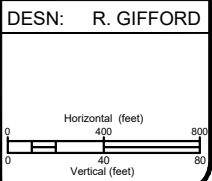
NO	REVISION	DATE
1	ISSUE TO USACE	10/3/22
2	ISSUE TO USACE	11/3/22

EMPIRE OFFSHORE WIND LLC

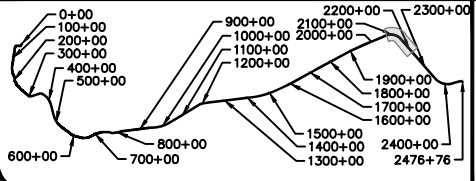
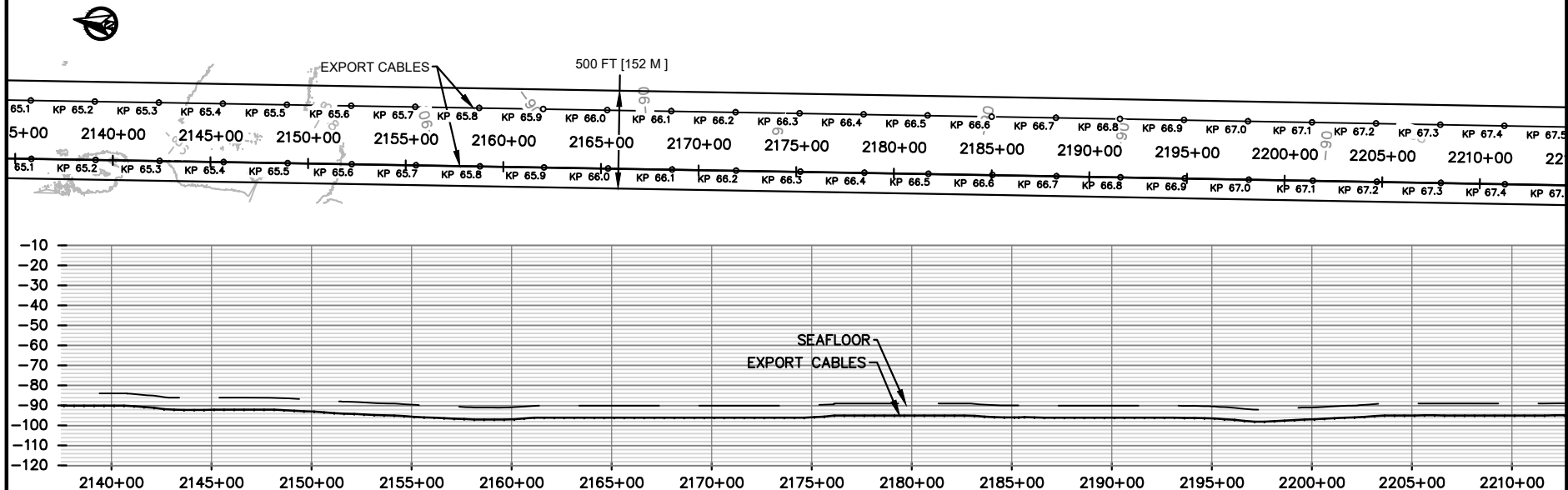
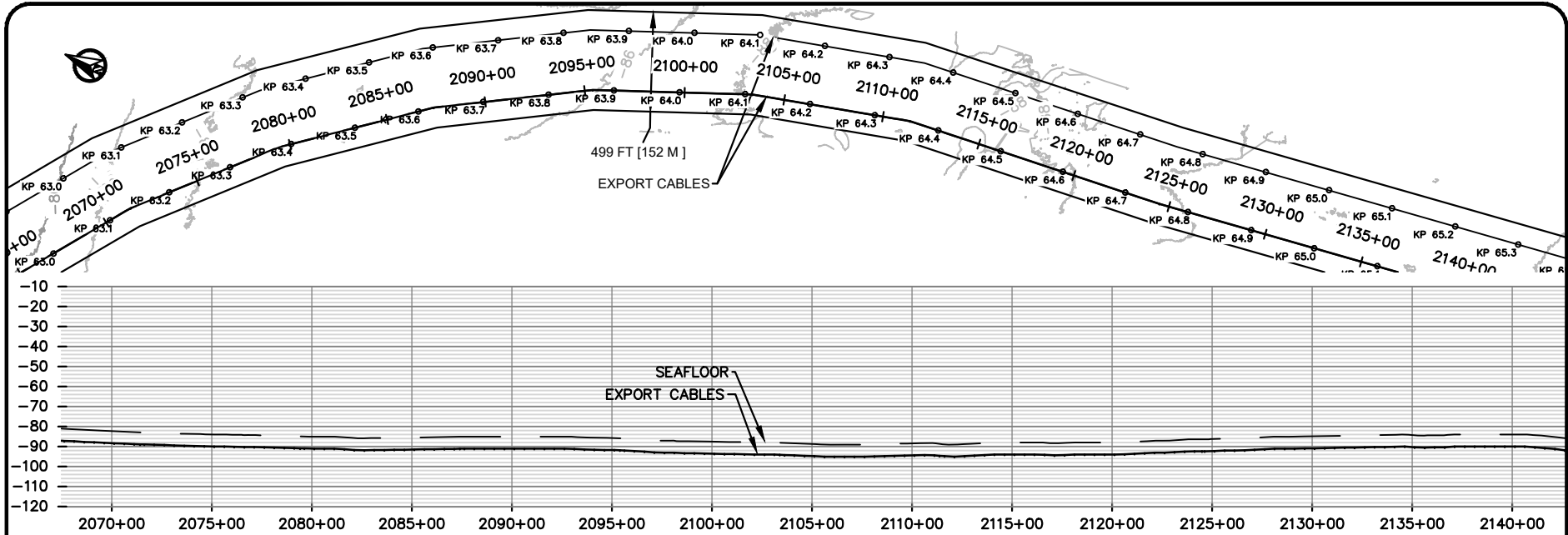
DESIGN: R. GIFFORD

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 1950+00 - 2070+00

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



Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 17 OF 19 DATE: 11/3/22

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

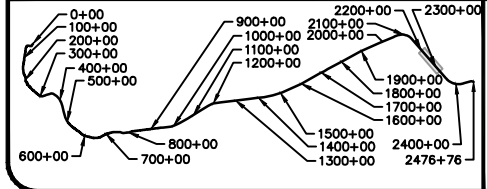
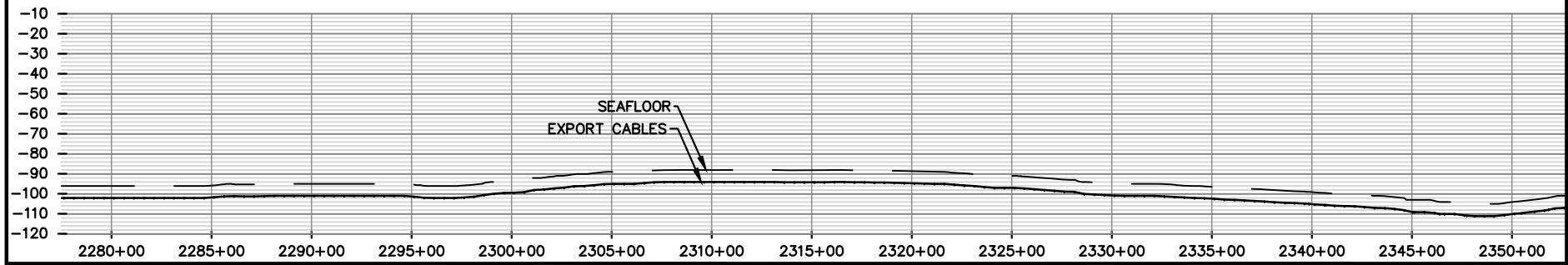
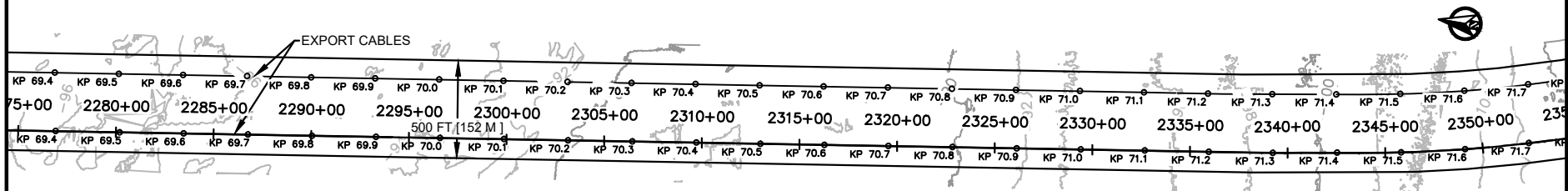
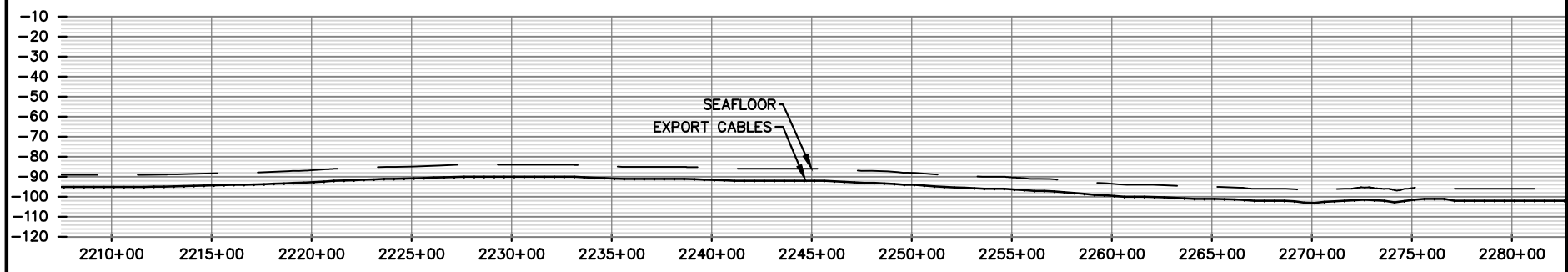
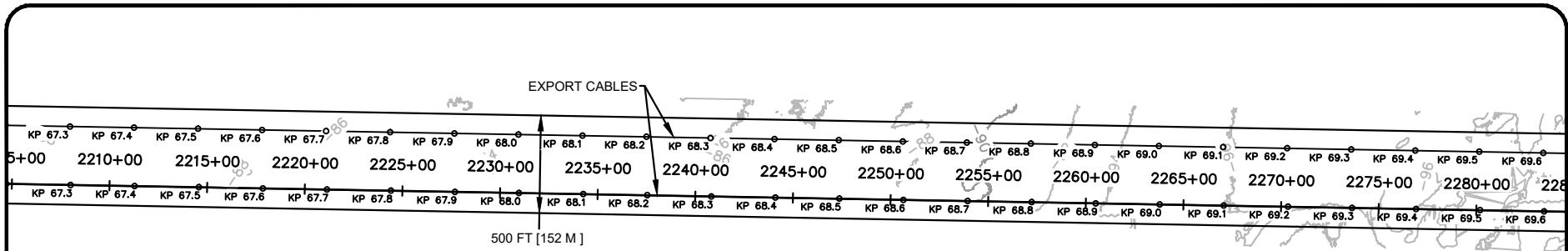
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 2070+00 - 2210+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 18 OF 19 DATE: 11/3/22

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

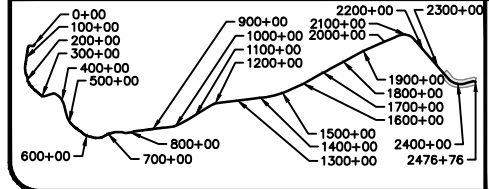
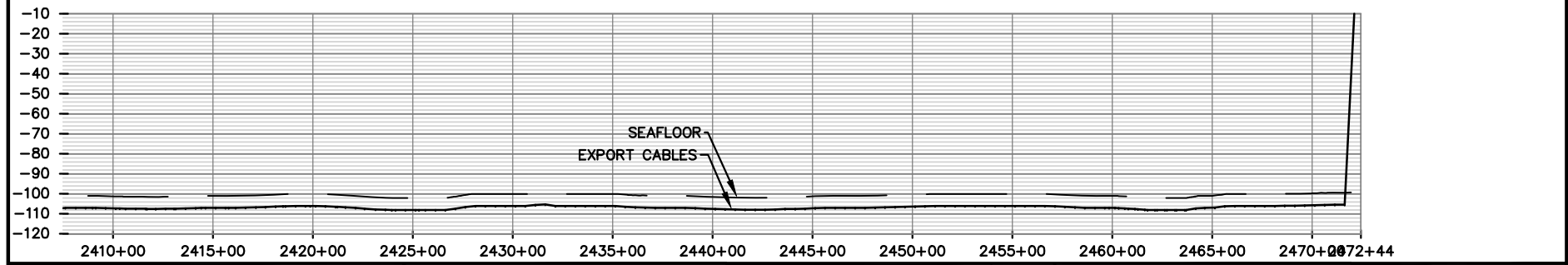
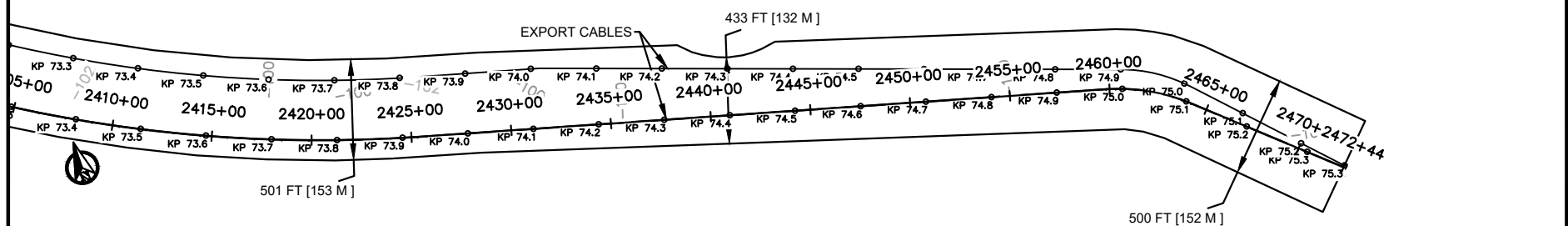
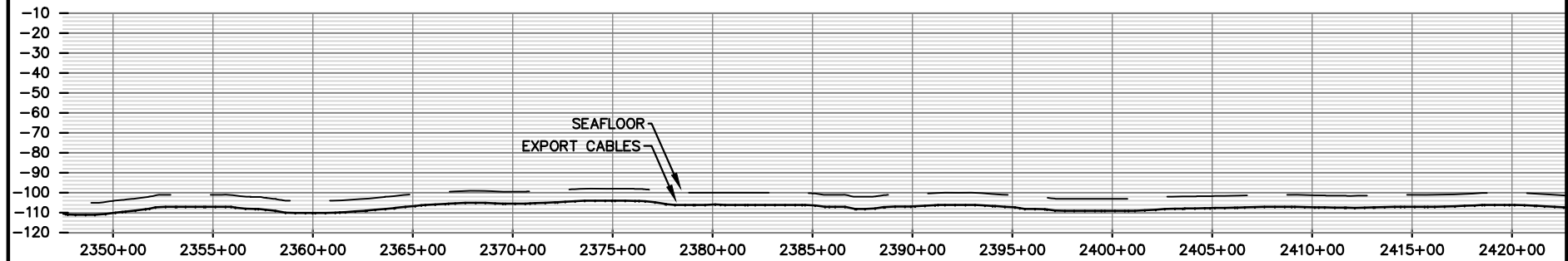
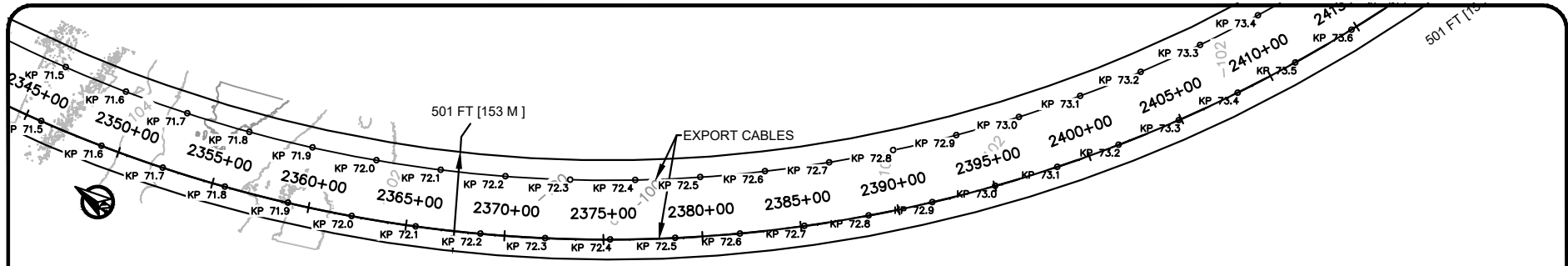
EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PLAN AND PROFILES
 STA 2210+00 - 2350+00

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

DESIGN: R. GIFFORD

Copyright: Tetra Tech



USACE # NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: SOUTH BROOKLYN MARINE TERMINAL / LEASE AREA OCS-A 0512
 WATERBODY: GOWANUS BAY / ATLANTIC OCEAN
 ISSUED FOR USACE PERMIT APPLICATION
 SHEET 19 OF 19 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 1
 PLAN AND PROFILES
 STA 2350+00 -2476+96

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

DESIGN: R. GIFFORD

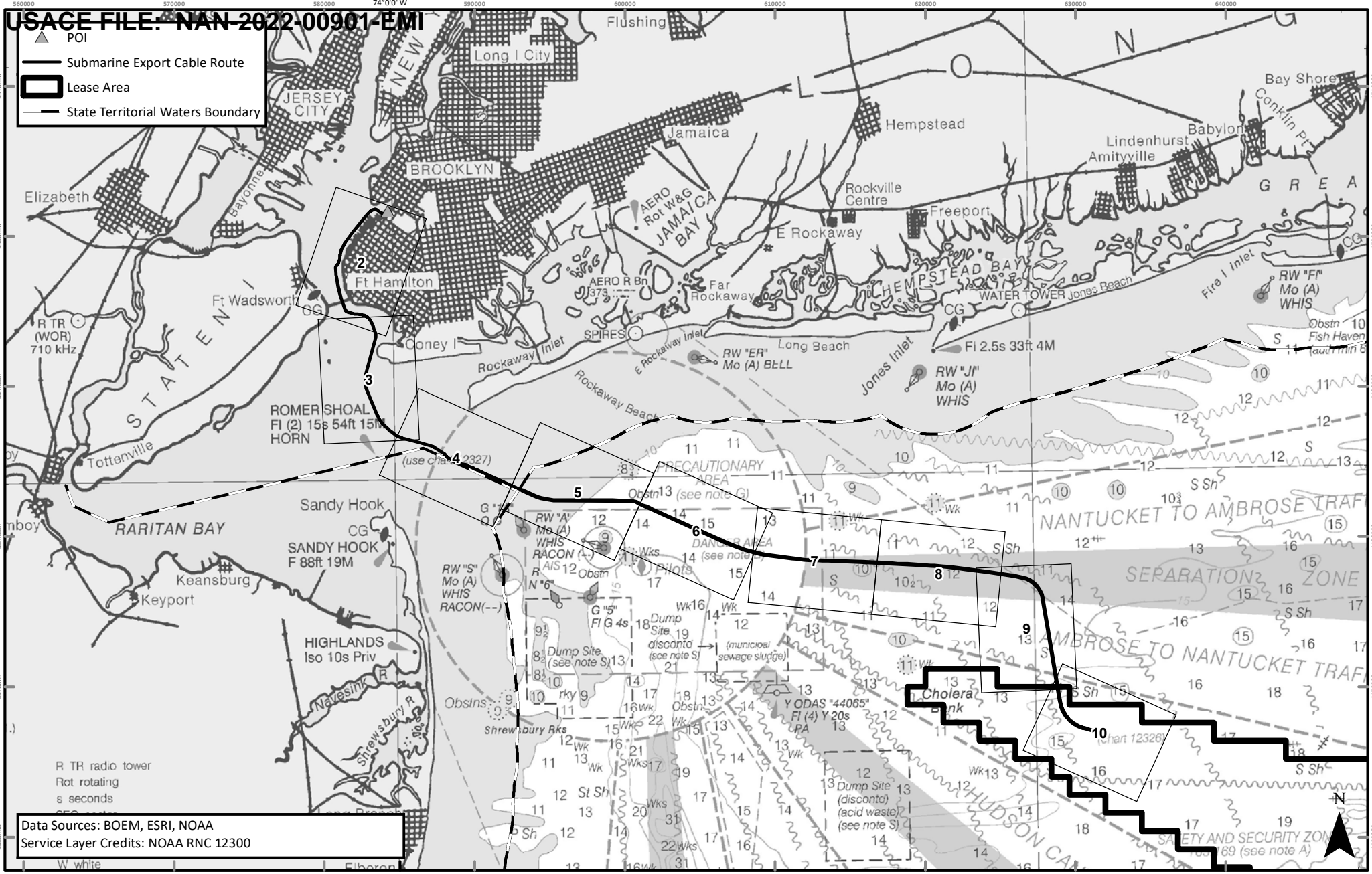
Copyright: Tetra Tech

▲ POI

— Submarine Export Cable Route

▭ Lease Area

— State Territorial Waters Boundary



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

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN
 SHEET OF 1 OF 10

TETRA TECH
 WWW.TETRATECH.COM

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

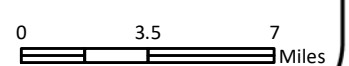
EMPIRE OFFSHORE WIND LLC

CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

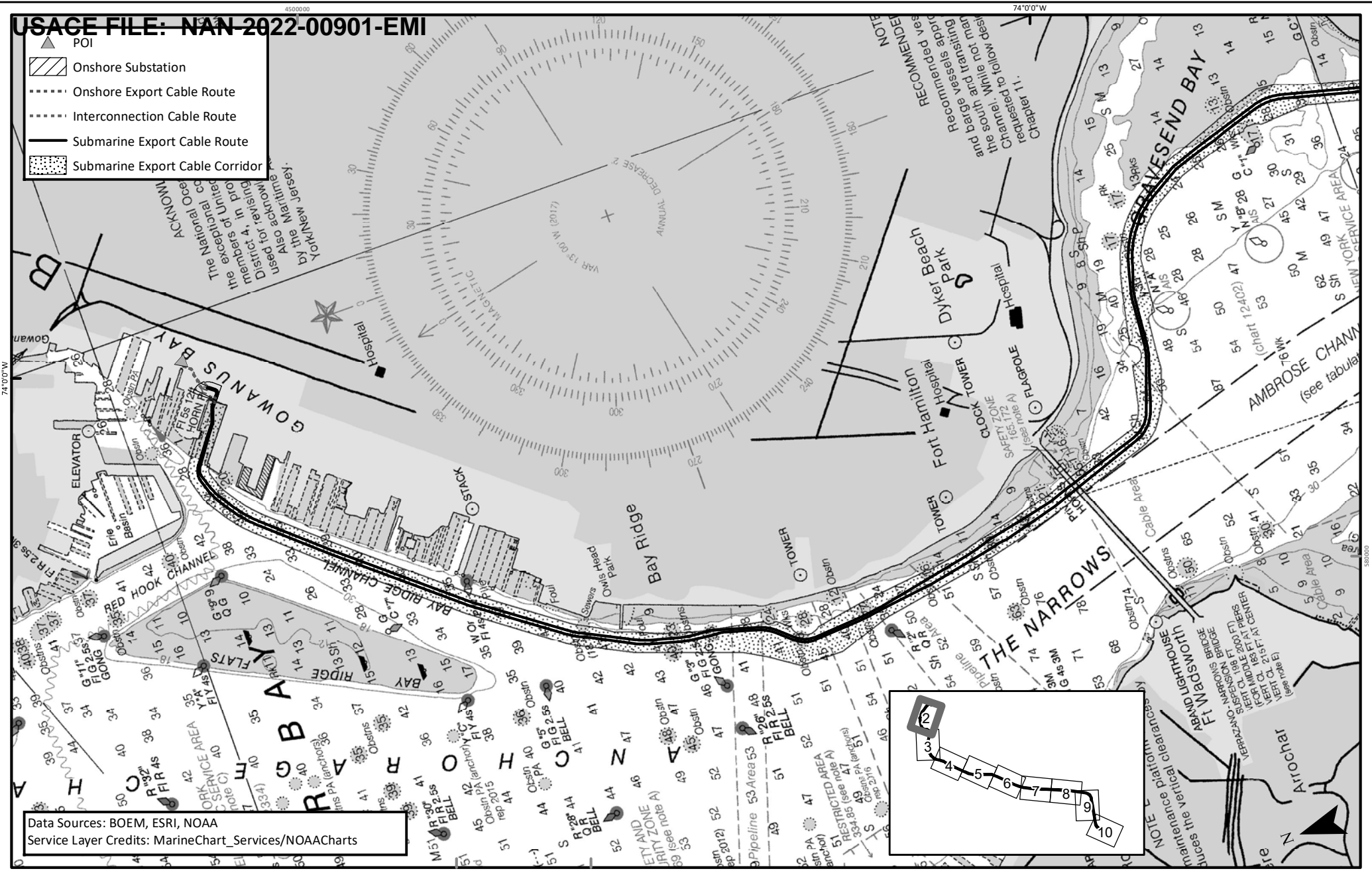
REVISION 2

DATE: 11/3/2022

DESN: W. SCALES



- ▲ POI
- ▨ Onshore Substation
- ⋯ Onshore Export Cable Route
- ⋯ Interconnection Cable Route
- Submarine Export Cable Route
- ▨ Submarine Export Cable Corridor



Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: MarineChart_Services/NOAACharts

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: KINGS COUNTY, GOWANUS BAY
 SHEET 2 OF 10

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

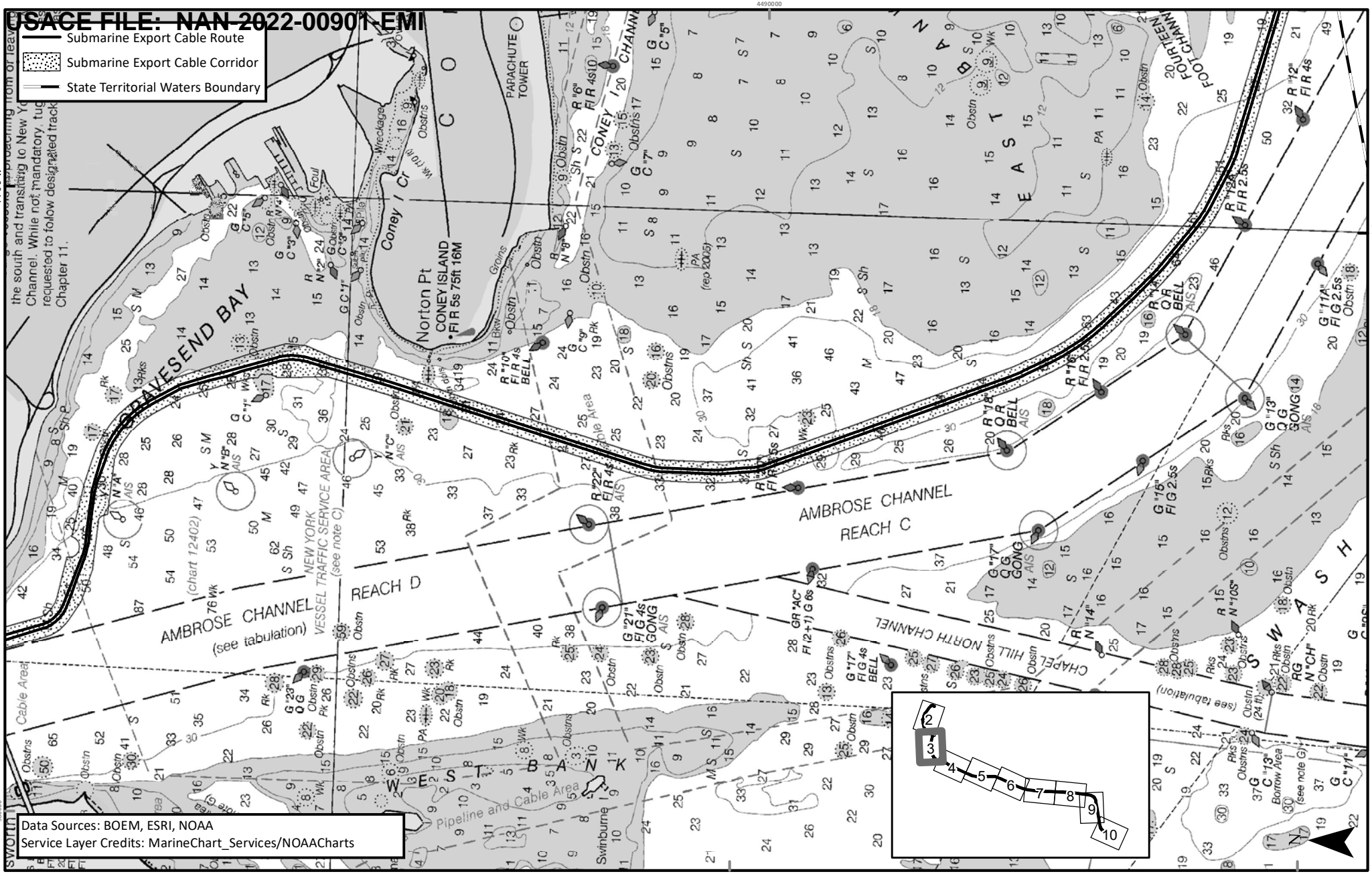
REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES

 0 0.35 0.7 Miles

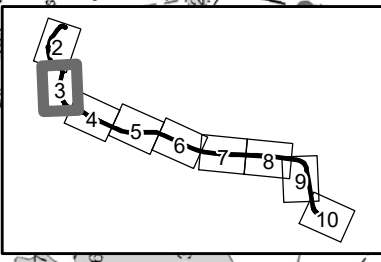
CSACE FILE: NAN-2022-00901-EMI

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

the south and transiting to New York Channel. While not mandatory, tug requested to follow designated track Chapter 11.



Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: MarineChart_Services/NOAACharts

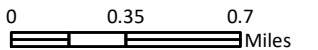


APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: GOWANUS BAY
 SHEET 3 OF 10

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

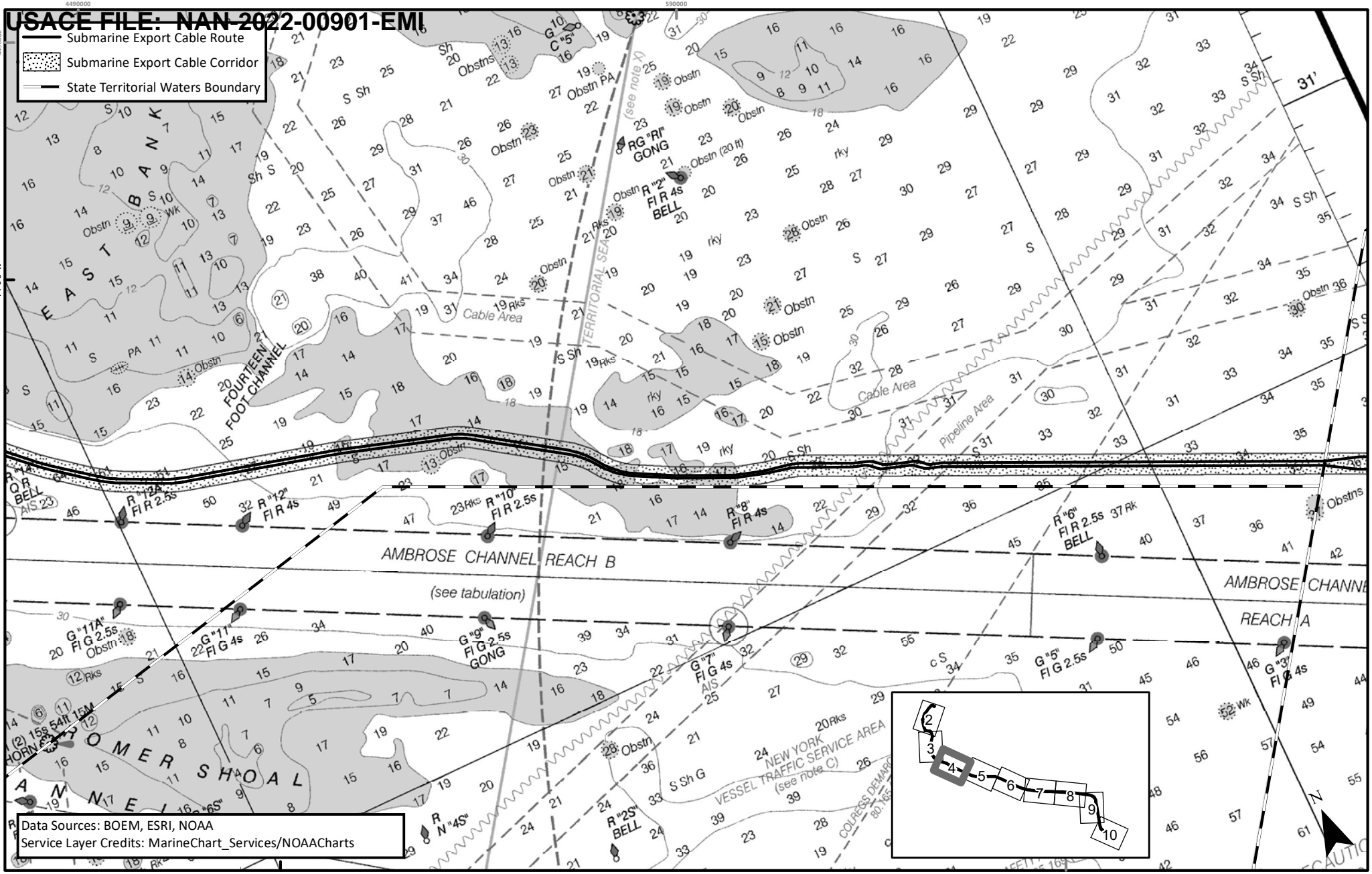
EMPIRE OFFSHORE WIND LLC

CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

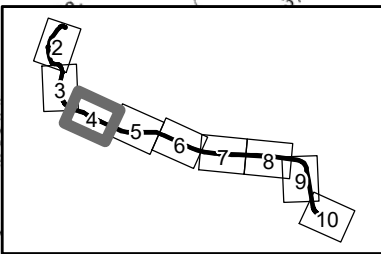
REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES

 0 0.35 0.7 Miles

USACE FILE: NAN-2022-00901-EMI

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



Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: MarineChart_Services/NOAACharts



APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 4 OF 10




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

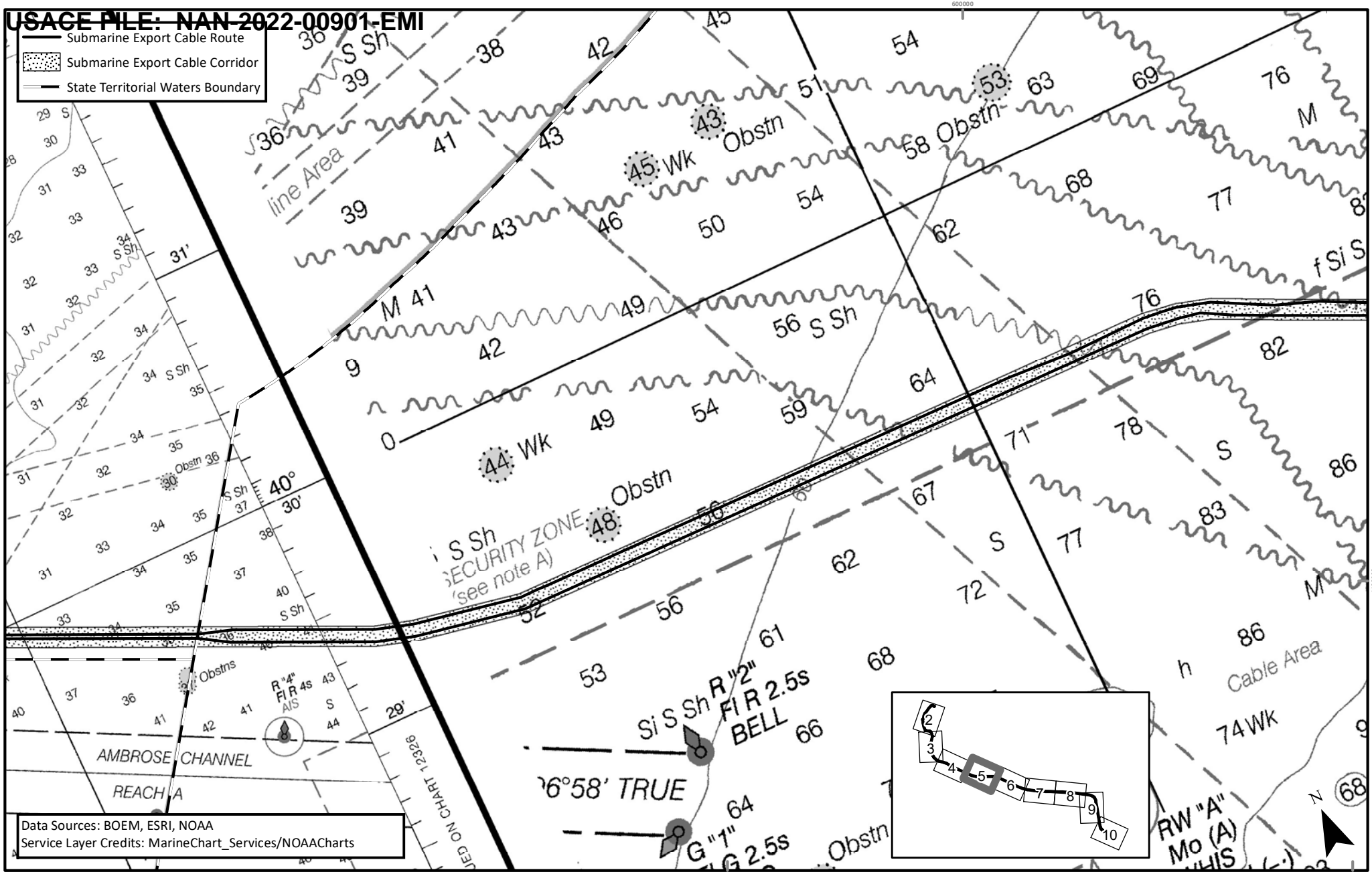
EMPIRE OFFSHORE WIND LLC

CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

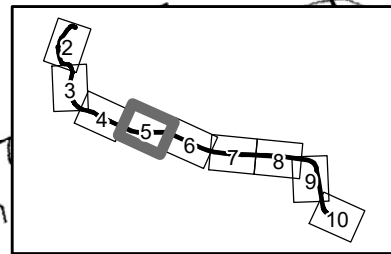
REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 0.35 0.7 Miles
38 OF 69

USAGE FILE: NAN-2022-00901-EMI

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



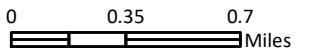
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: MarineChart_Services/NOAACharts



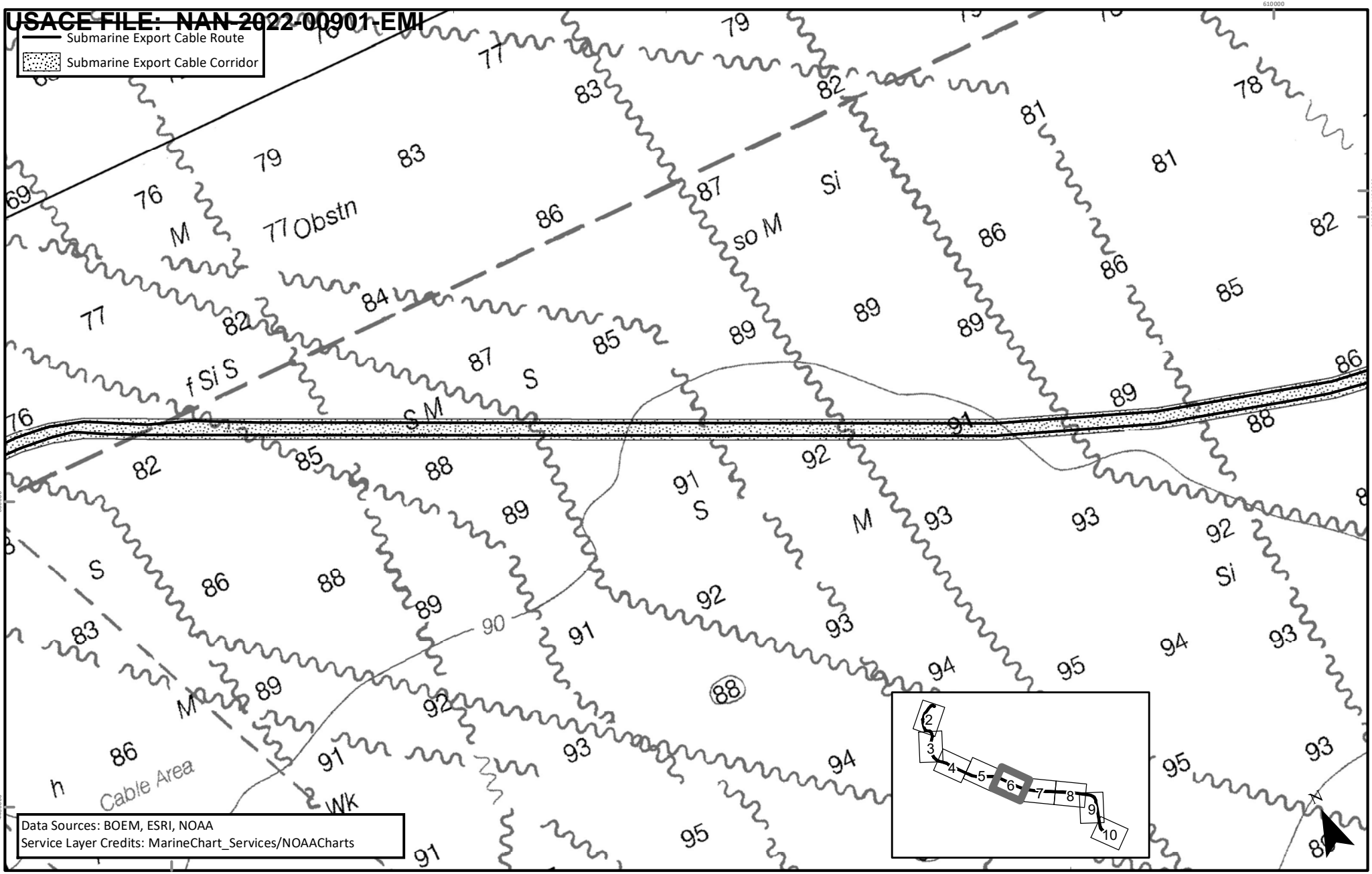
APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 5 OF 10

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

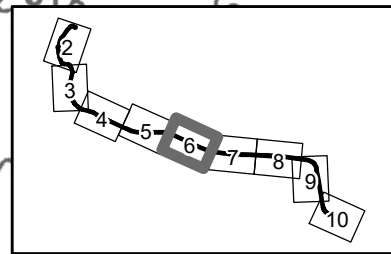
EMPIRE OFFSHORE WIND LLC
 CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

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


Submarine Export Cable Route
 Submarine Export Cable Corridor



Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: MarineChart_Services/NOAACharts



APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 6 OF 10

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

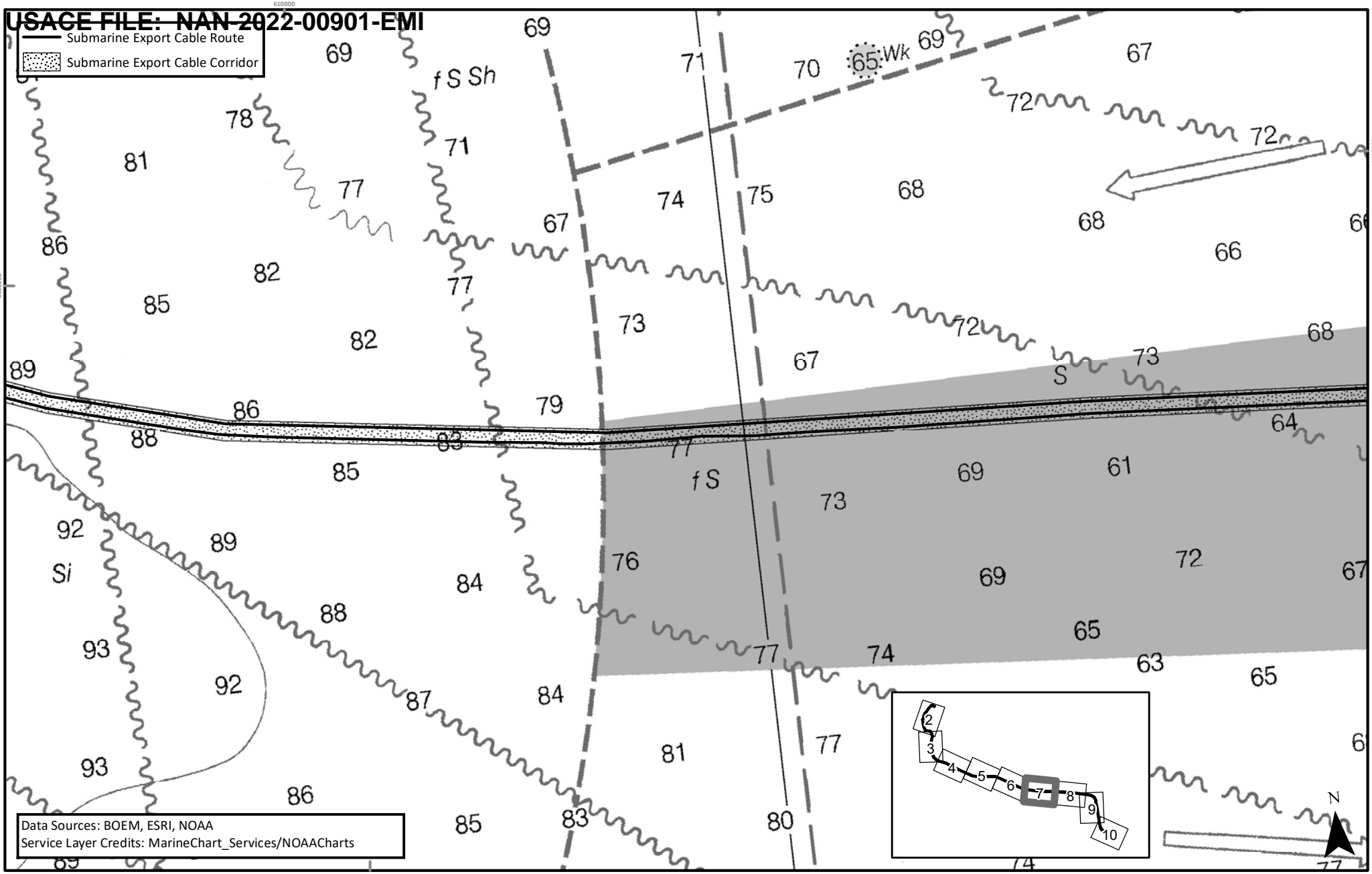
EMPIRE OFFSHORE WIND LLC

CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

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

USACE FILE: NAN-2022-00901-EMI

Submarine Export Cable Route
 Submarine Export Cable Corridor



Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: MarineChart_Services/NOAACharts

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 7 OF 10

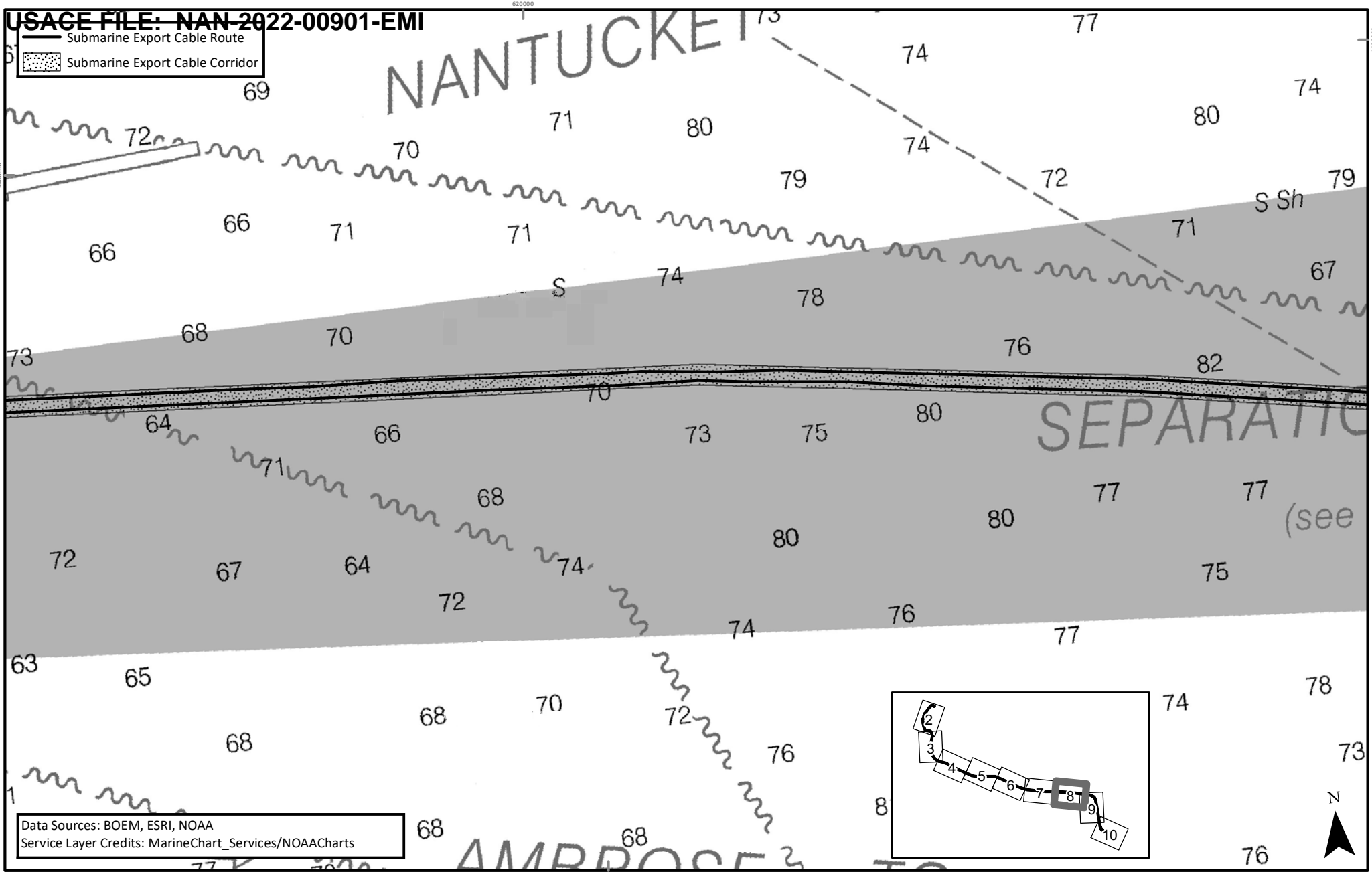
TE TETRA TECH
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617)-443-7500
 Fax: (617)737-34809

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



Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: MarineChart_Services/NOAACharts

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 8 OF 10

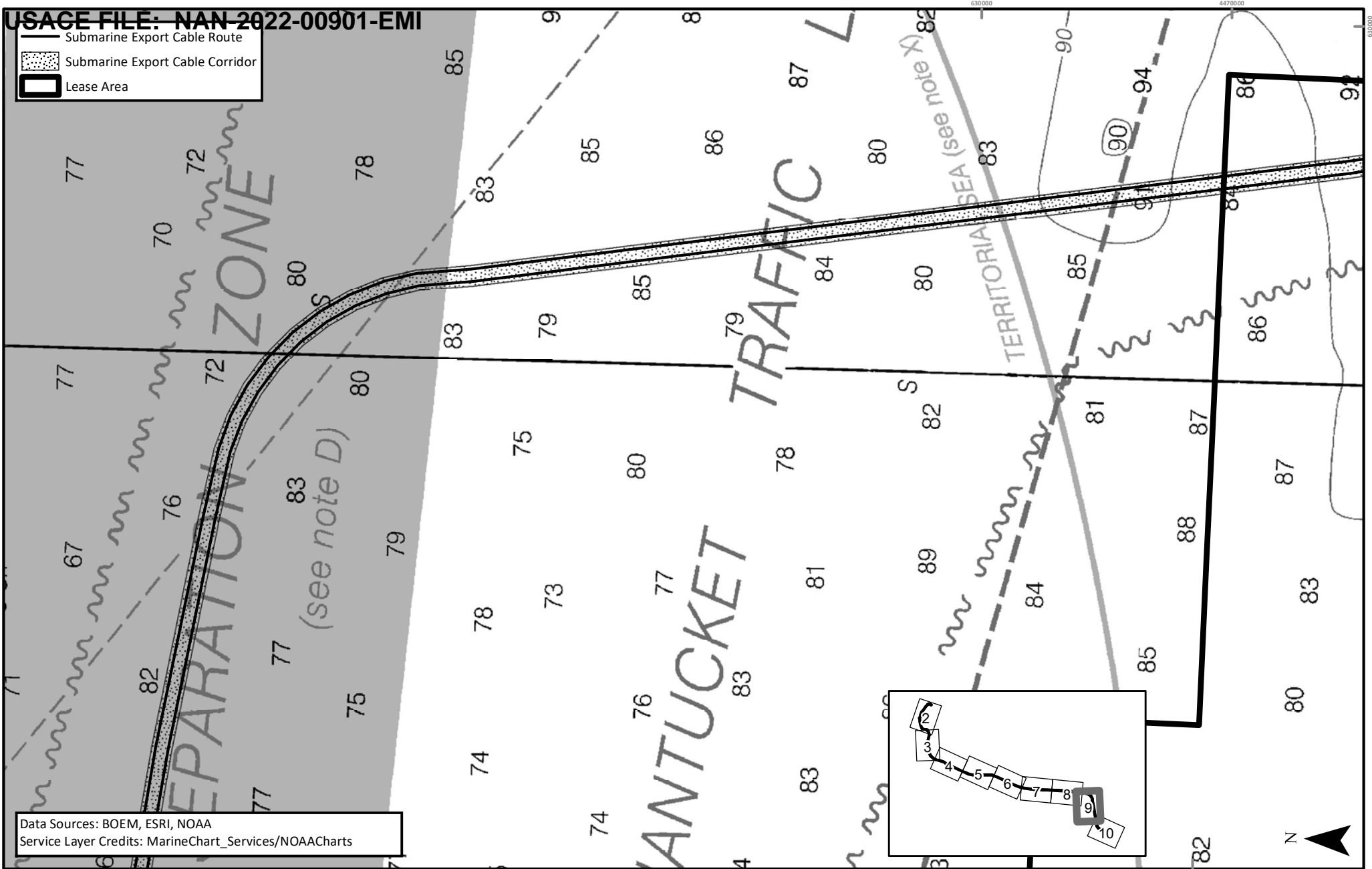
TETRA TECH
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617)-443-7500
 Fax: (617)737-34809

EMPIRE OFFSHORE WIND LLC

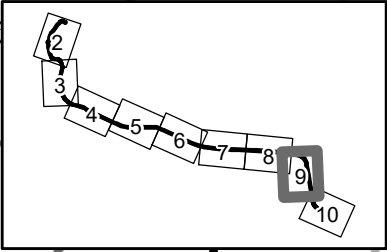
CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

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

 Submarine Export Cable Route
 Submarine Export Cable Corridor
 Lease Area



Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: MarineChart_Services/NOAACharts



APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 9 OF 10



WWW.TETRATECH.COM

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

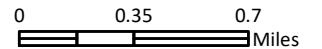
EMPIRE OFFSHORE WIND LLC

CABLE ROUTE MAP: NOAA RASTER NAVIGATIONAL CHART

REVISION 2

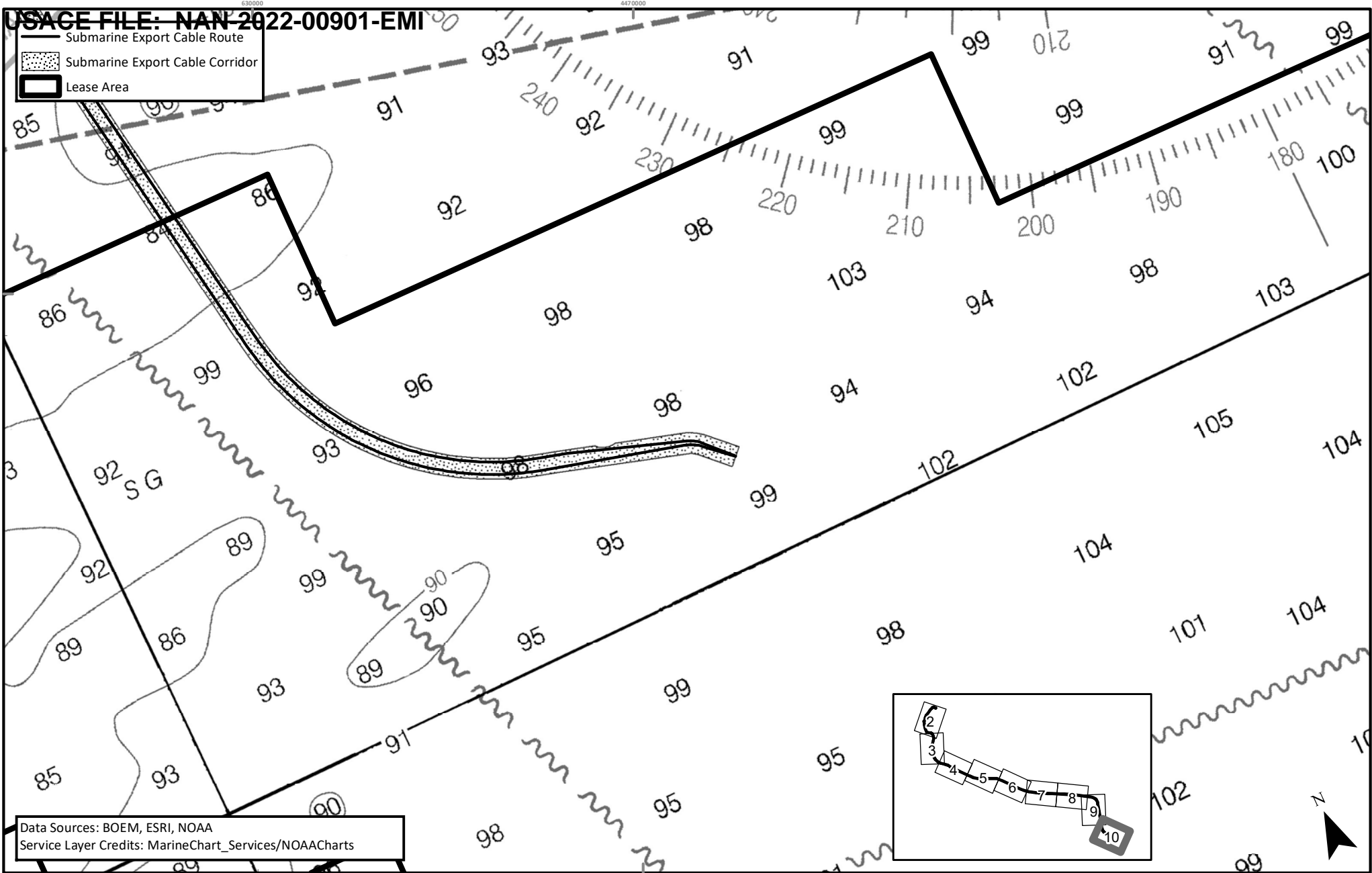
DATE: 11/3/2022

DESN: W. SCALES




USAGE FILE: NAN-2022-00901-EMI

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



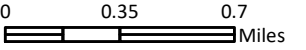
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: MarineChart_Services/NOAACharts

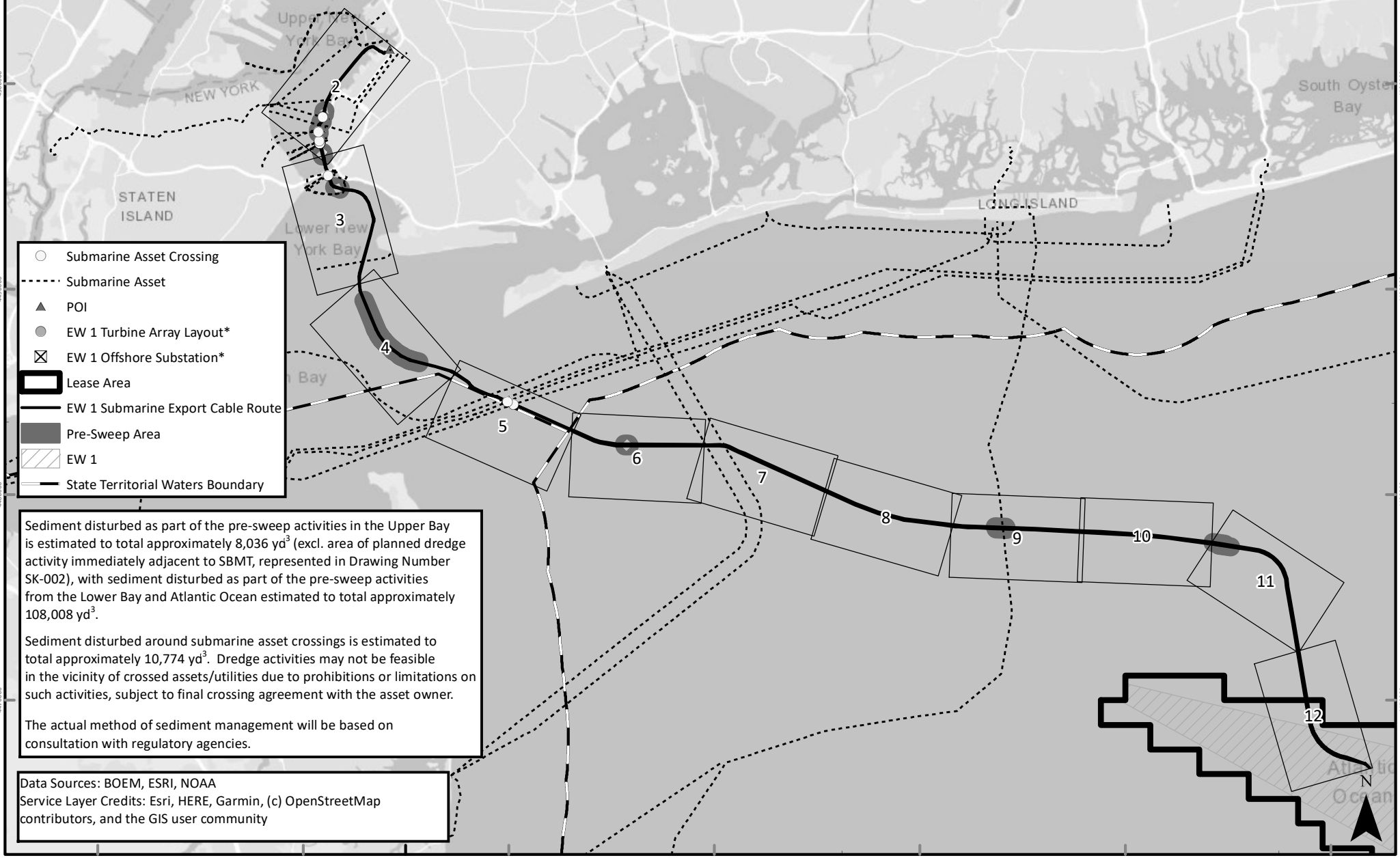
APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 10 OF 10



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

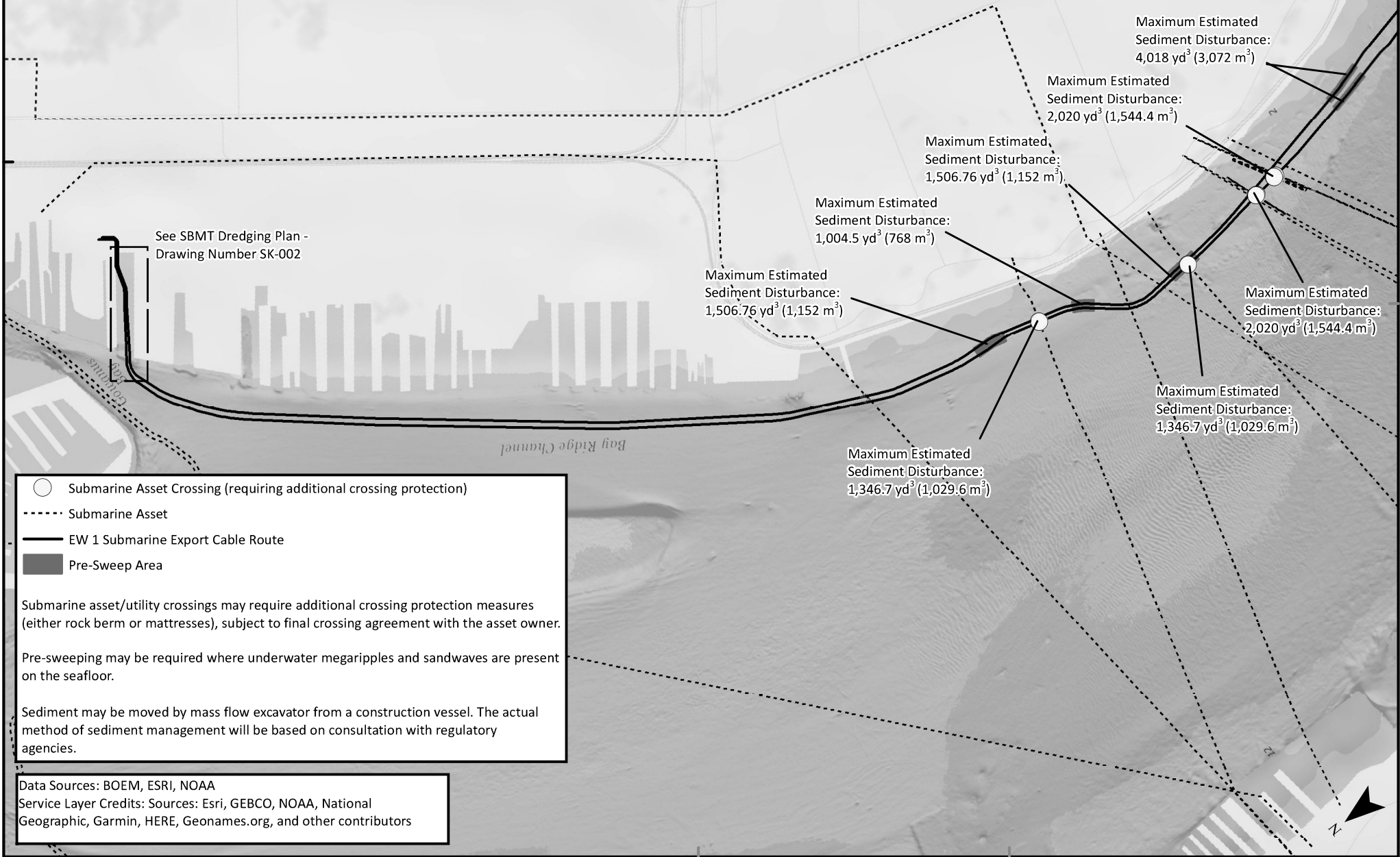


APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: LEASE AREA OCS-A 0512,
 ATLANTIC OCEAN
 SHEET 1 OF 12

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
 PROJECT VICINITY

REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 2.5 5 Miles
45 OF 69



○ Submarine Asset Crossing (requiring additional crossing protection)

----- Submarine Asset

— EW 1 Submarine Export Cable Route

■ 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.

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.

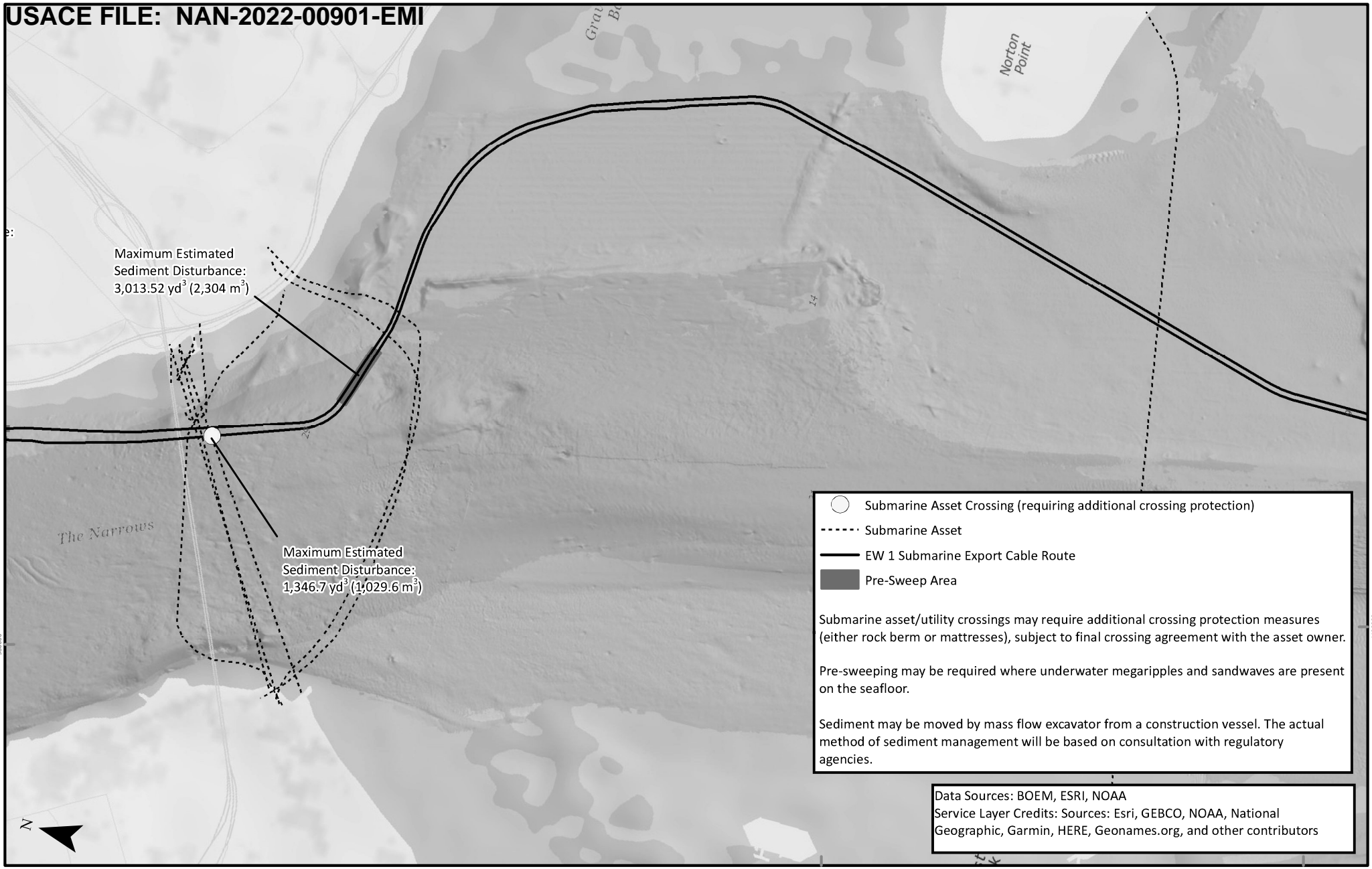
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: KINGS COUNTY, GOWANUS BAY
 SHEET 2 OF 12

TE 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
 PROJECT VICINITY

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



Submarine Asset Crossing (requiring additional crossing protection)
 Submarine Asset
 EW 1 Submarine Export Cable Route
 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.

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

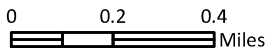
Sediment may be moved by mass flow excavator from a construction vessel. The actual method of sediment management will be based on consultation with regulatory agencies.

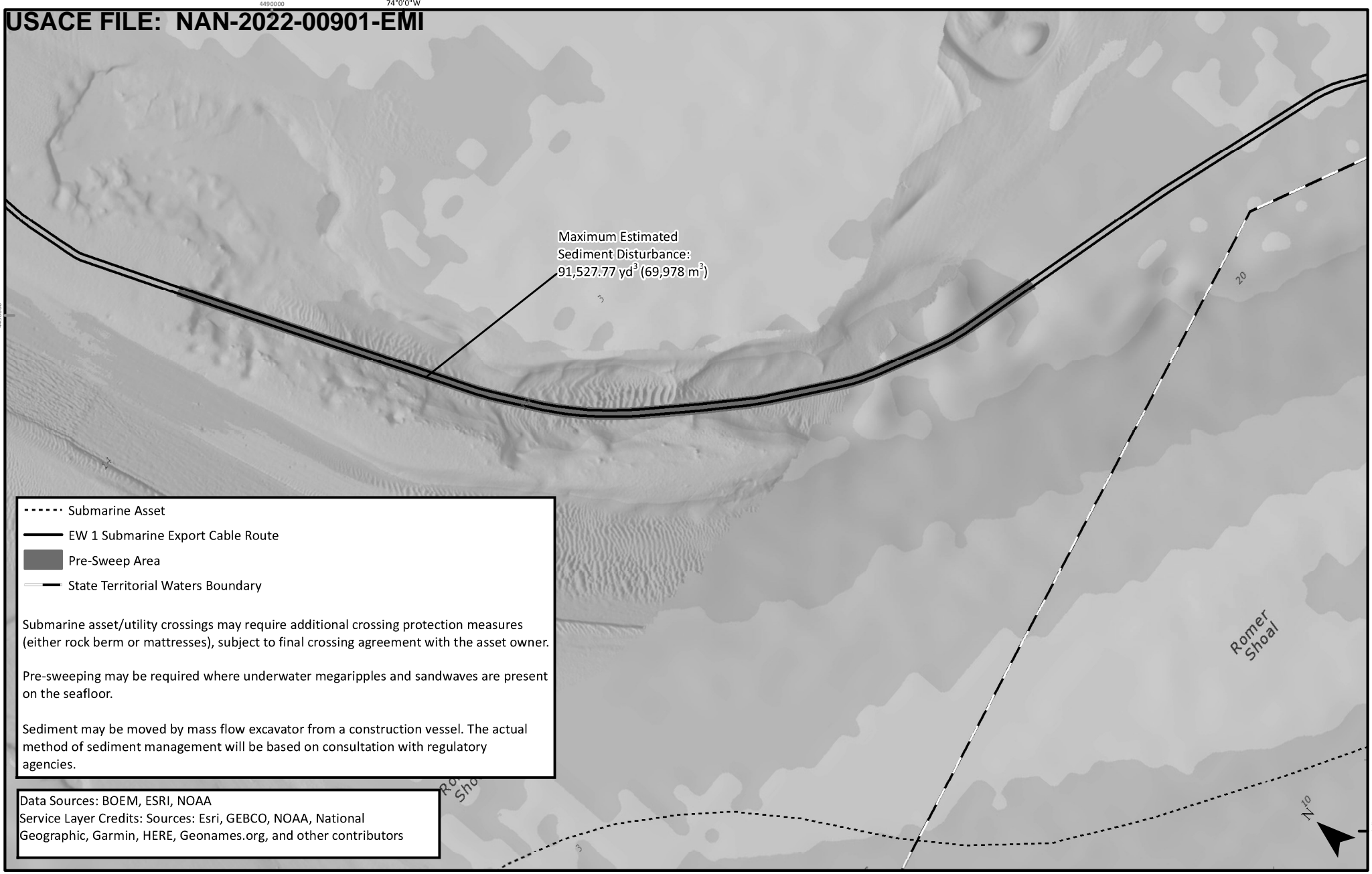
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: GOWANUS BAY
 SHEET 3 OF 12

 **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
 PROJECT VICINITY

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

 0 0.2 0.4 Miles



----- Submarine Asset
 ——— EW 1 Submarine Export Cable Route
 ■ Pre-Sweep Area
 ——— 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.

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.

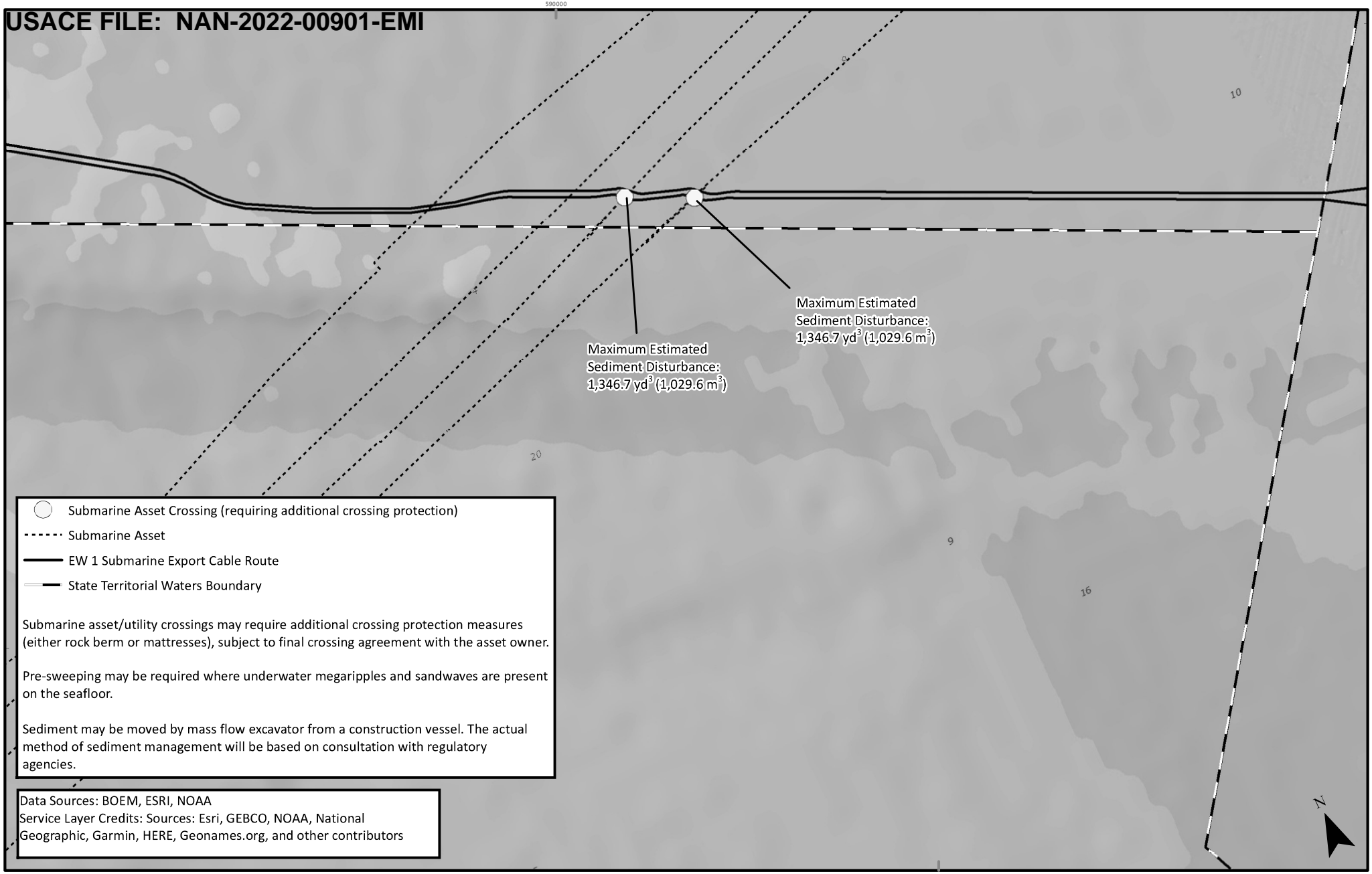
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 4 OF 12

TE 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
 PROJECT VICINITY

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



○ Submarine Asset Crossing (requiring additional crossing protection)

----- Submarine Asset

—— EW 1 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.

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.

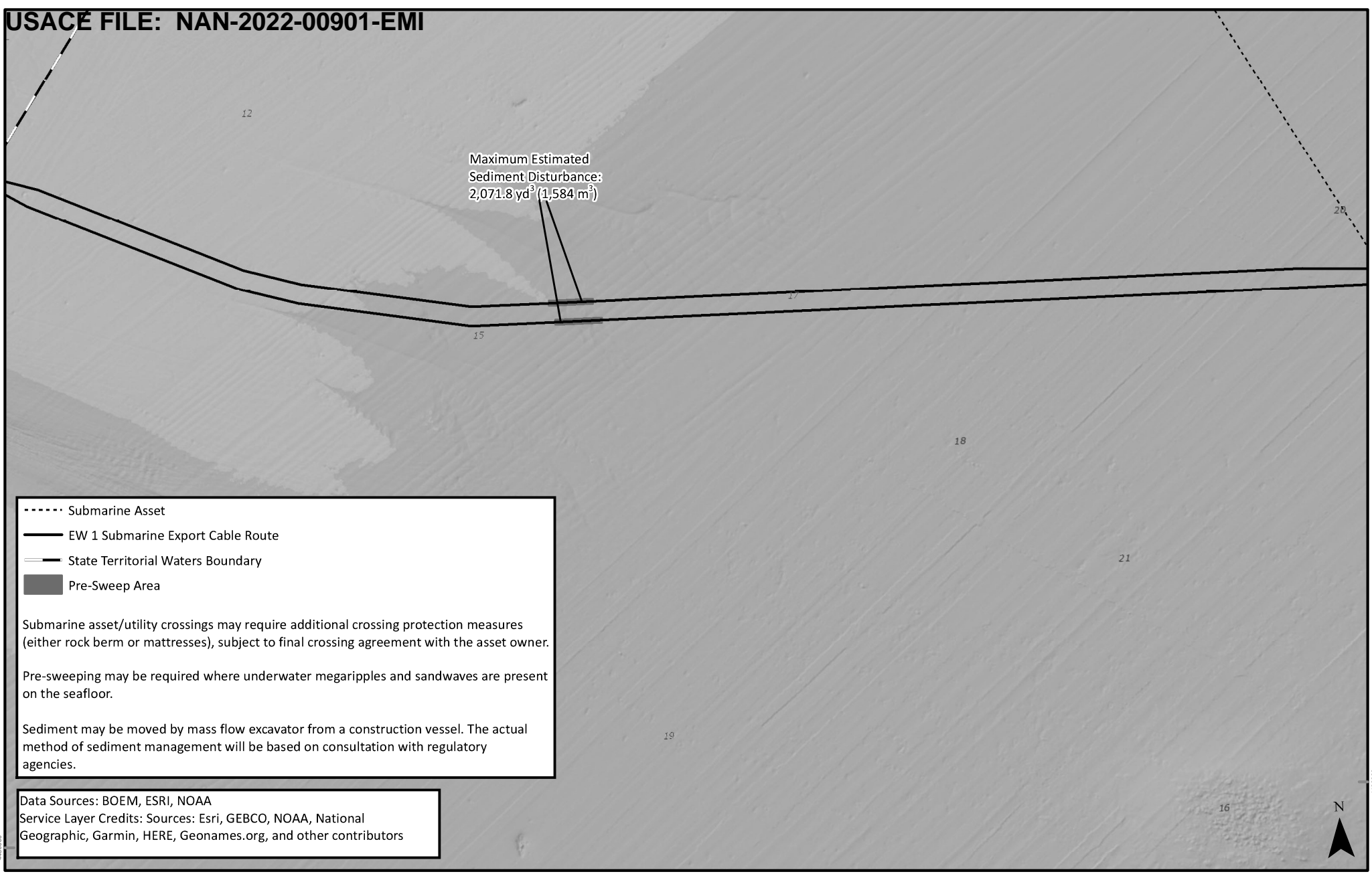
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 5 OF 12

TE 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
 PROJECT VICINITY

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



----- Submarine Asset
 ——— EW 1 Submarine Export Cable Route
 ——— State Territorial Waters Boundary
 ■ 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.

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.

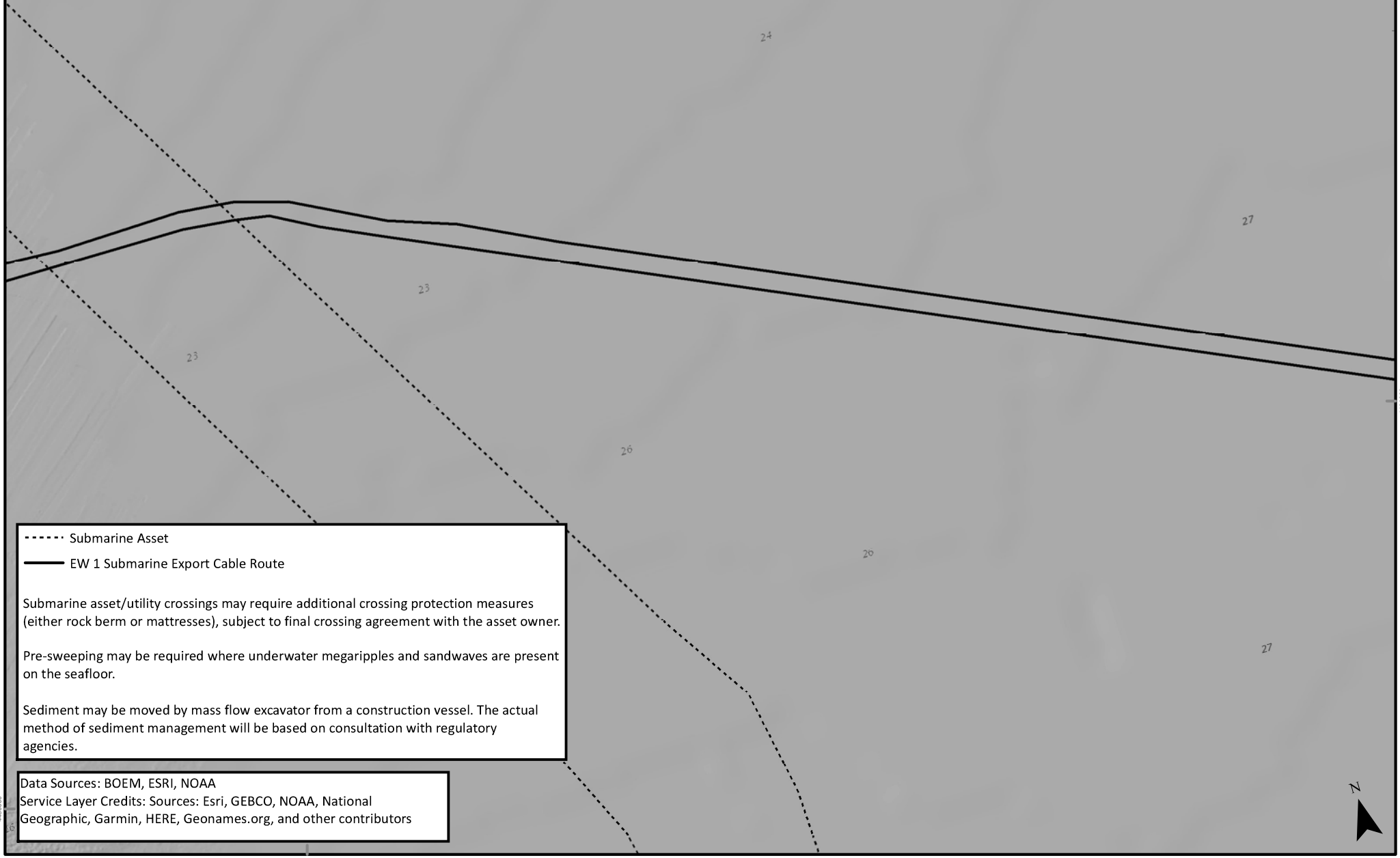
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 6 OF 12

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
 PROJECT VICINITY

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

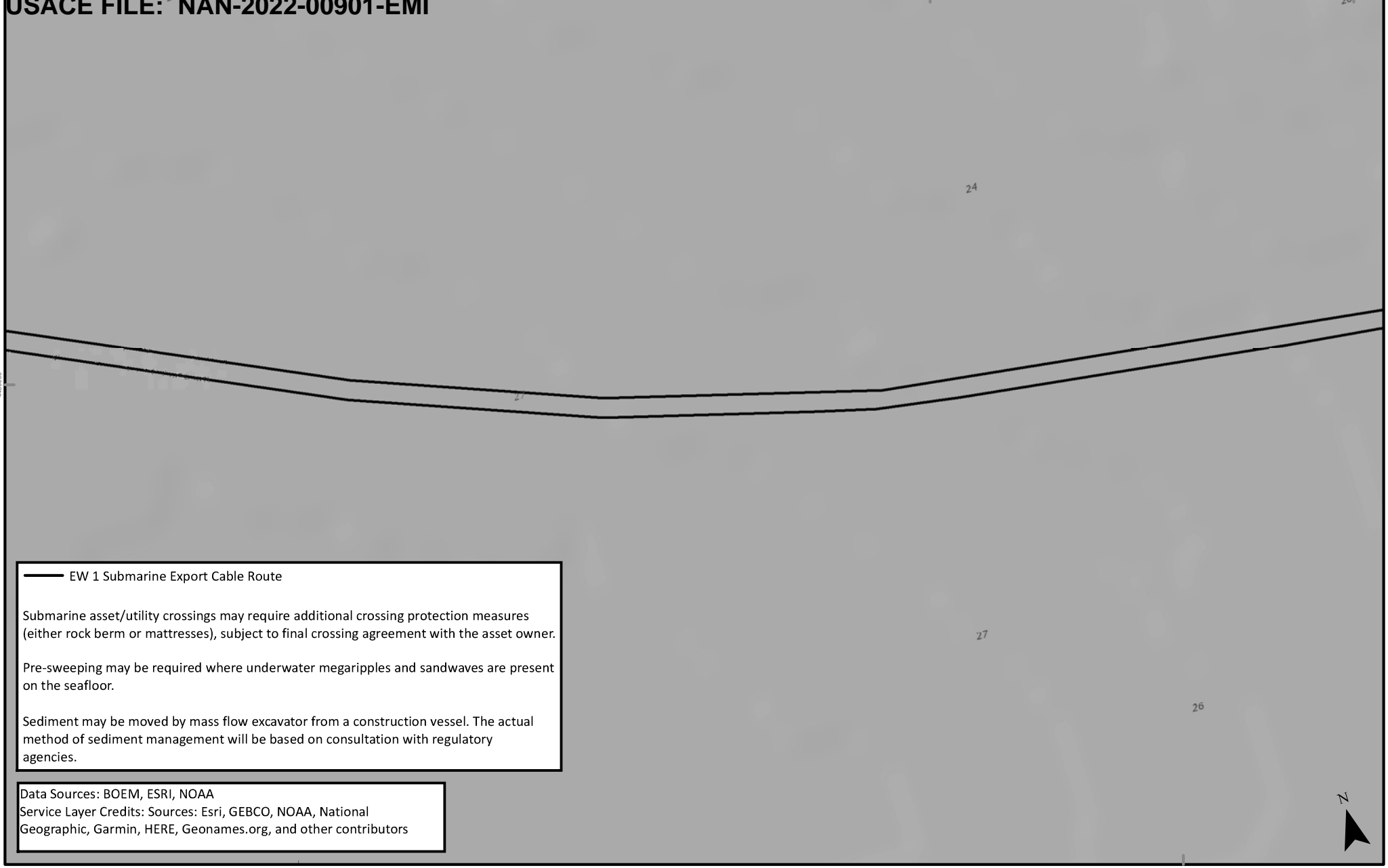


APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 7 OF 12

TE 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
 PROJECT VICINITY

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



EW 1 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.

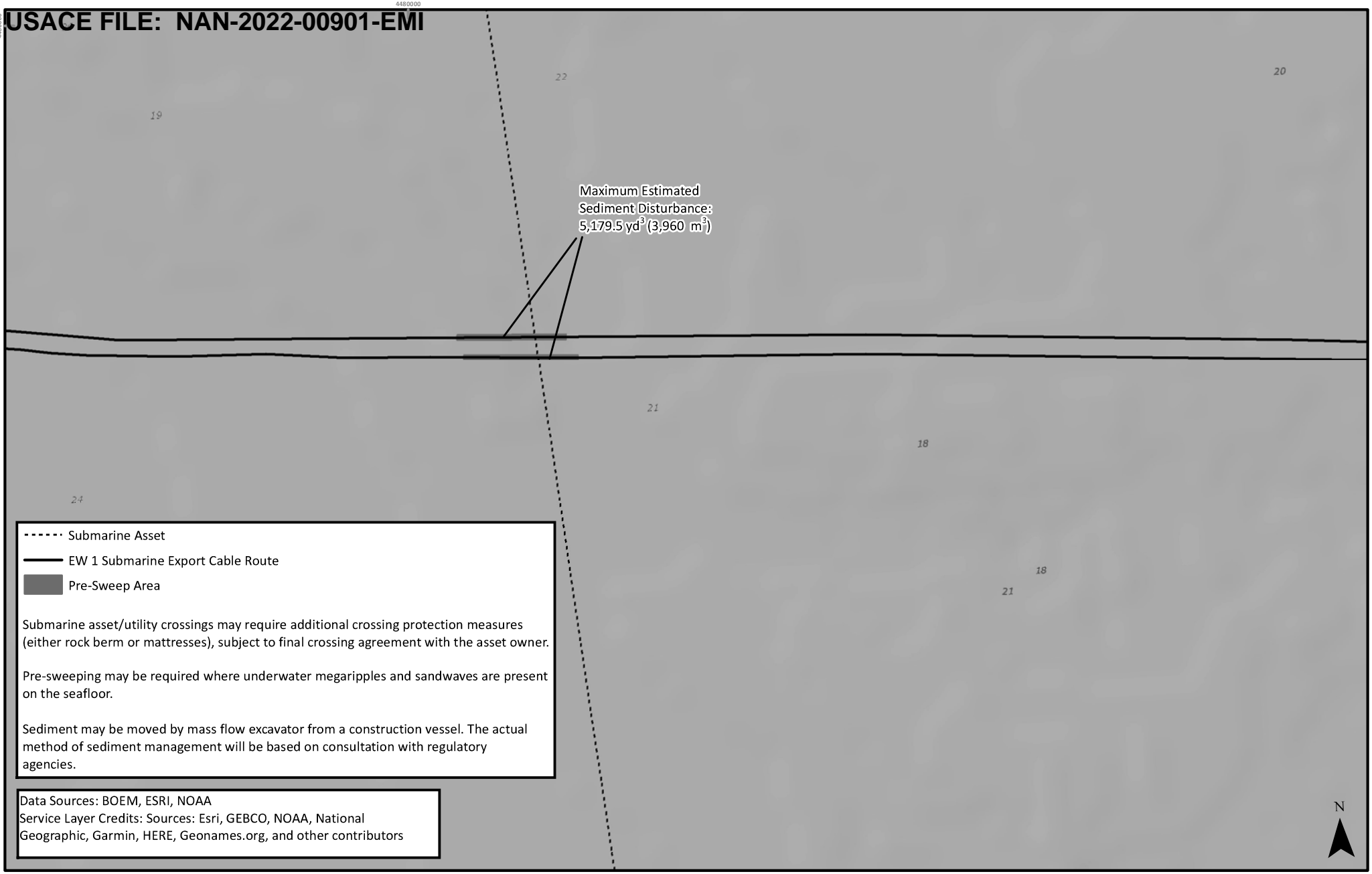
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 8 OF 12

TE 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
 PROJECT VICINITY

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



----- Submarine Asset
 ——— EW 1 Submarine Export Cable Route
 ■ 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.

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

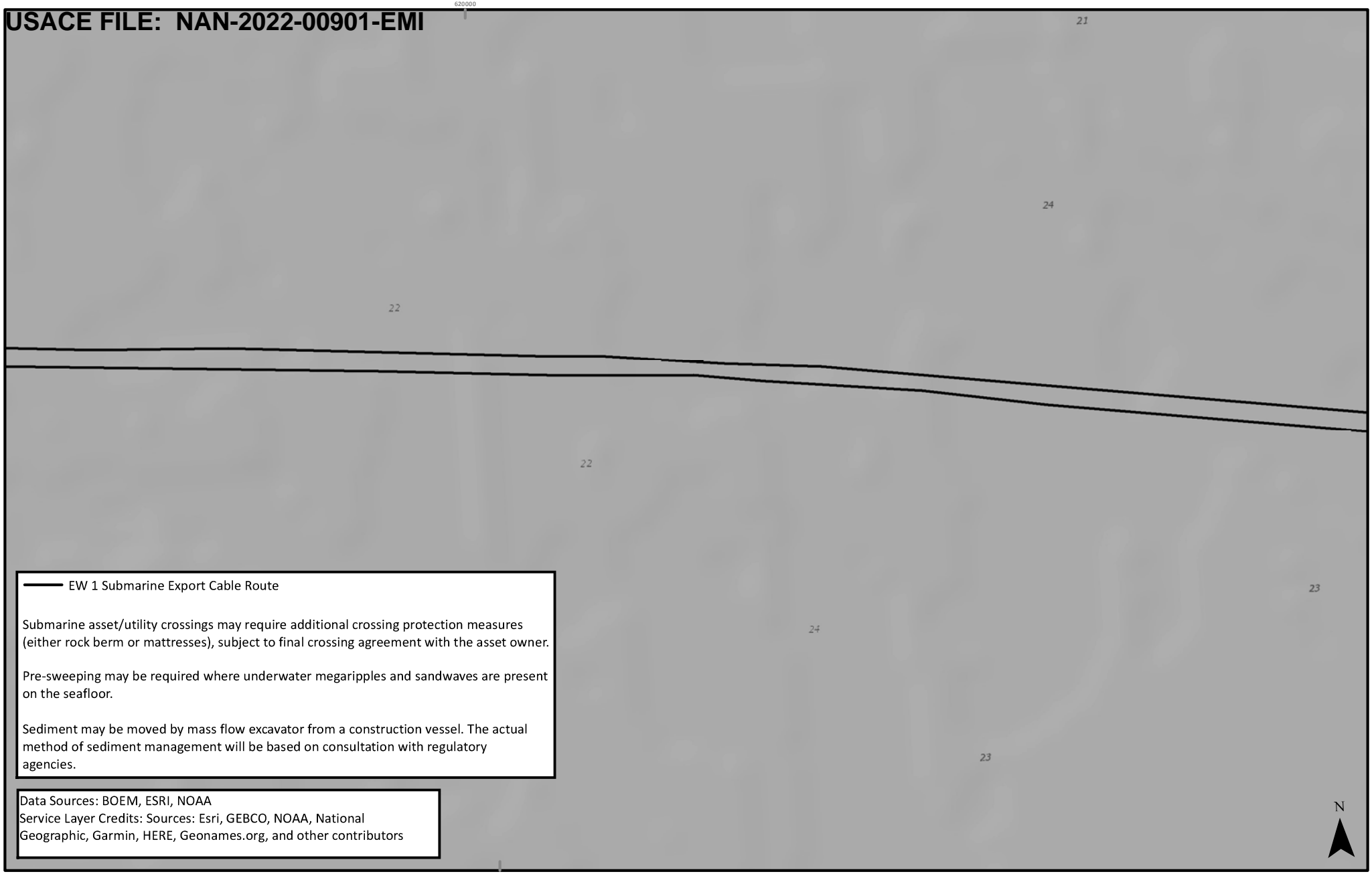


APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 9 OF 12

TE 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
 PROJECT VICINITY

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



EW 1 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.

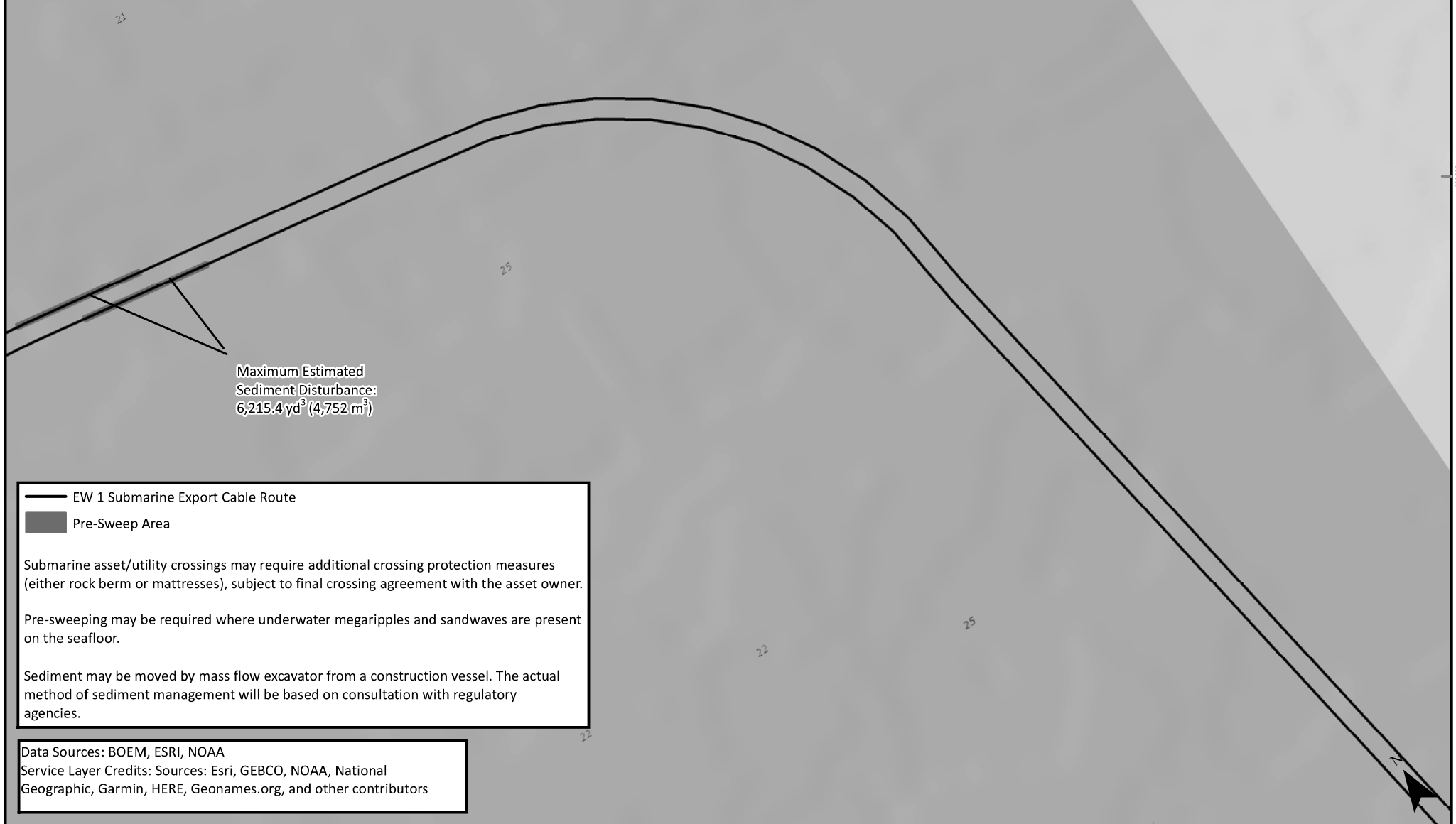
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 10 OF 12

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
 PROJECT VICINITY

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



Maximum Estimated Sediment Disturbance: 6,215.4 yd³ (4,752 m³)

— EW 1 Submarine Export Cable Route
 ■ 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.

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.

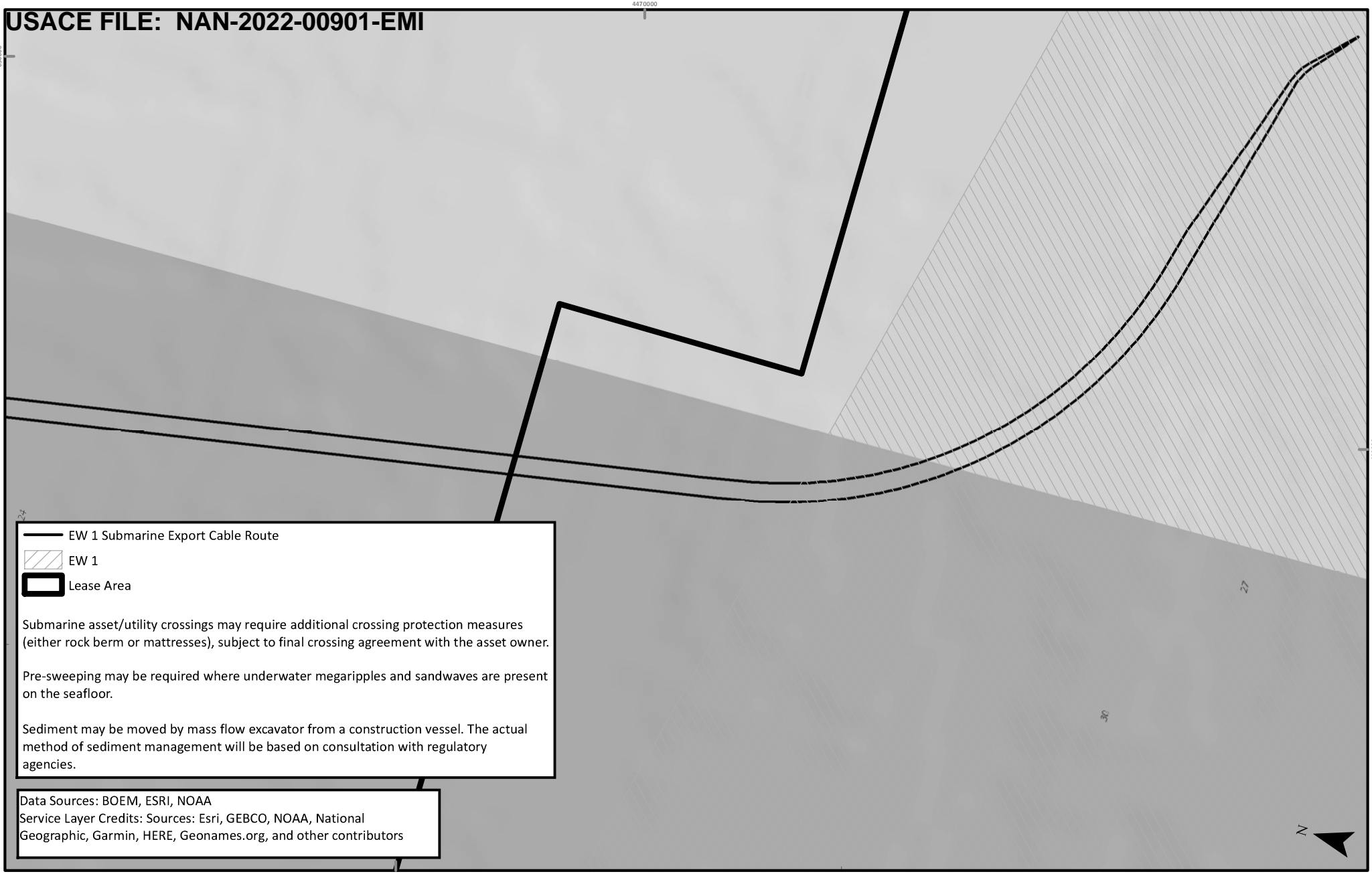
Data Sources: BOEM, ESRI, NOAA
 Service Layer Credits: Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 11 OF 12

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
 PROJECT VICINITY

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



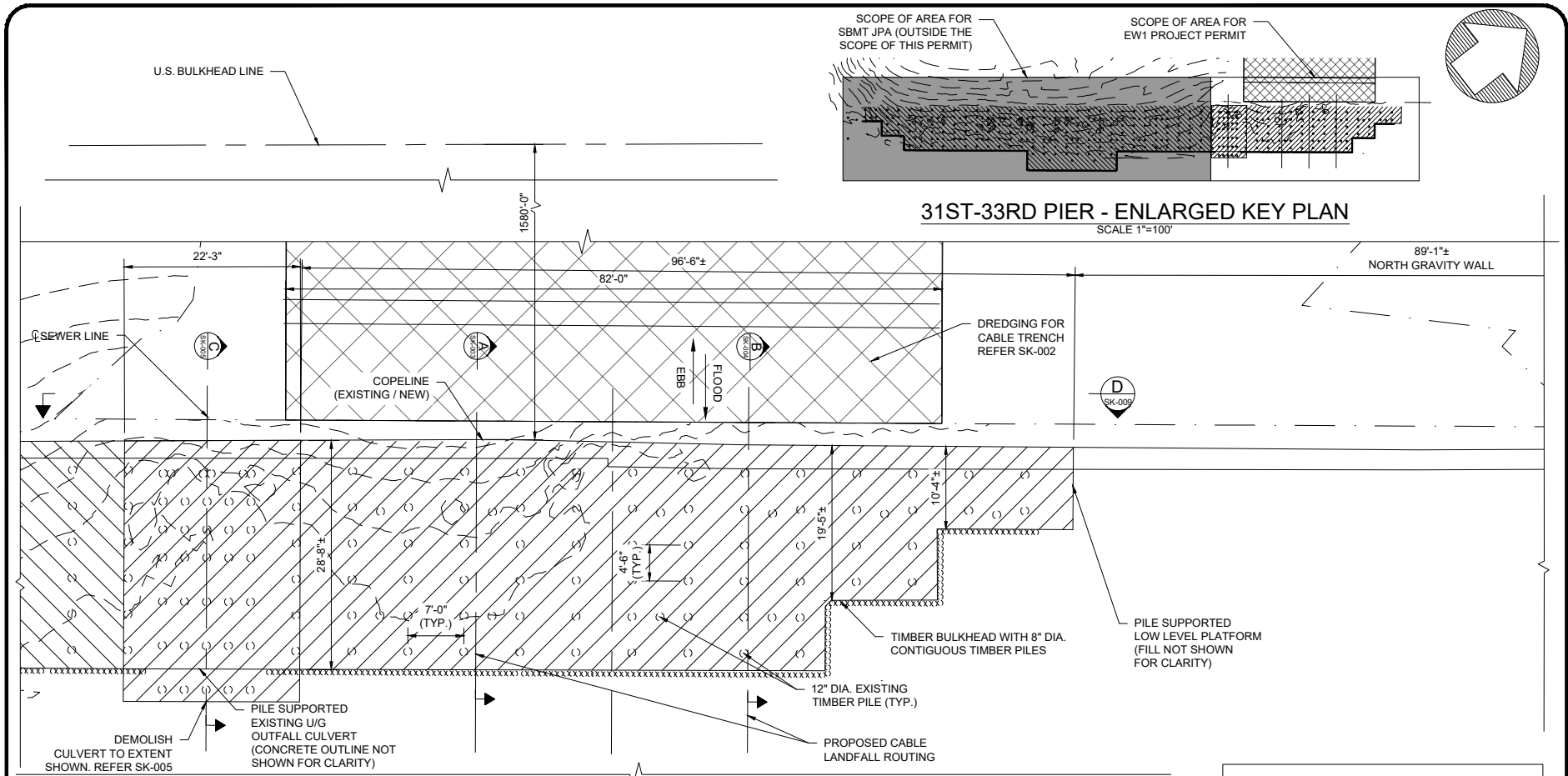
APPLICATION NUMBER: NAN-2022-00901-EMI
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 LOCATION: ATLANTIC OCEAN
 SHEET 12 OF 12

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

PROJECT VICINITY

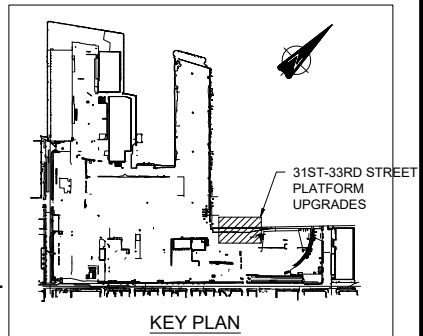
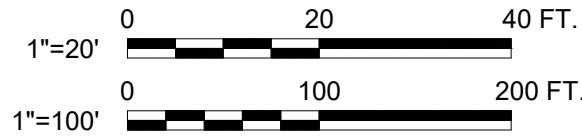
REVISION 2
 DATE: 11/3/2022
 DESN: W. SCALES
 0 0.25 0.5 Miles



31ST-33RD PIER - DEMOLITION PLAN
SCALE 1"=20'

- NOTES:**
- EXISTING FEATURES SHOWN ON THIS SECTION ARE BASED ON AS-BUILTS.
 - DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.

- LEGEND:**
- EXISTING PLATFORM PILES
 - DEMOLITION OF LOW LEVEL PLATFORM AND PILES TO SEA BED LEVEL (PERMIT AREA FOR EW1 ONLY).
- TOTAL AREA = 3330 SQ.FT
- TOTAL EXISTING PILES = 76 NO.S
 - CABLE TRENCH DREDGING (HATCH ONLY SHOWN FOR BOTTOM OF TRENCH FOR CLARITY, REFER SK-002 FOR COMPLETE LAYOUT).



TITLE: LANDFALL SITE PLAN CONCEPT
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 ISSUED FOR USACE PERMIT APPLICATION

LOCATION: 2ND AVE
 BROOKLYN, NY 11232
 LEASE AREA: OCS-A 0512
 LAT/LONG: 40.660, -74.008
 WATERBODY: GOWANUS BAY
 SHEET 1 OF 13 DATE: 11/03/22

Jacobs
 ONE PENN PLAZA
 54TH FLOOR, SUITE 5420
 NEW YORK, NY 10119
 Certificate of Authorization #: 00115863

NO	REVISION	DATE
1	ISSUE TO USACE	10/03/22
2	ISSUE TO USACE	11/03/22

EMPIRE OFFSHORE WIND LLC
 DESN: CK
 Scale at ANSI A AS SHOWN
 EMPIRE WIND 1
 DEMOLITION PLAN -
 EXISTING STRUCTURES
 WWW.TETRATECH.COM
 10 POST OFFICE SQUARE, 11TH FLOOR
 BOSTON, MA 02109
 Phone: (617) 443-7500 Fax: (617) 737-3480

Vertical (feet)

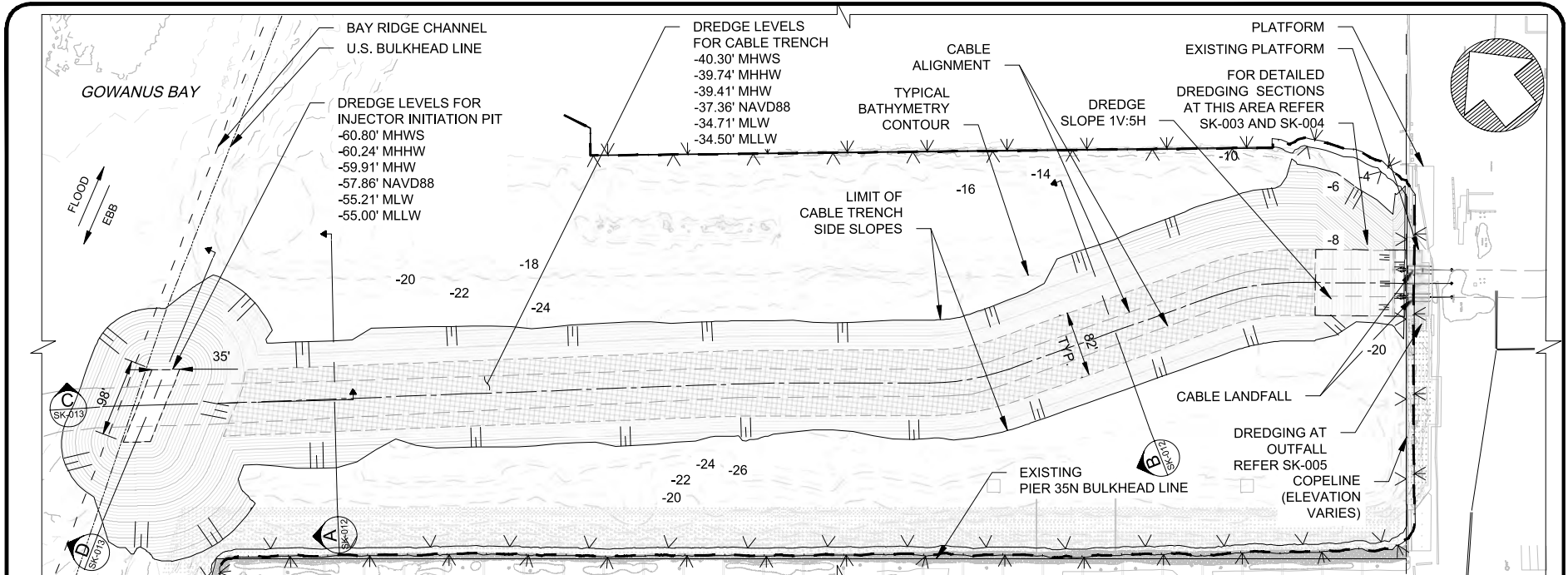
Date	Drawn	Checked	Approved
09/23/2022	MA	CK	TK

Drawing Number: SK-001

File Number	Status	Rev
NAN-2022-00901-EMI	PRE	2



BAR MEASURES 1 INCH



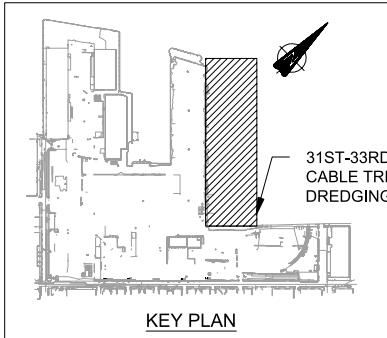
DREDGING PLAN
SCALE 1"=200'

LEGEND:

- 10- EXISTING WATER DEPTH RELATIVE TO MLLW (10 FT INTERVAL)
- 2- EXISTING WATER DEPTH RELATIVE TO MLLW (2 FT INTERVAL)
- ||| DREDGING SLOPE ((TYPICAL SLOPE 1V:4H UNO)
- ▨ BASE OF DREDGED TRENCH AT EL -34.5' MLLW
- ▤ DREDGING OF OUTFALL AREA (DREDGING FOR SCOUR PROTECTION) AND CABLE LANDFALL AREA - REFER SK-003, SK-004 AND SK-005
- ▥ LIMITS OF DREDGING AT PLATFORM WATERSIDE INCLUDING DREDGING PIT. REFER SK-003, 004 AND 007
- - - BAY RIDGE CHANNEL
- - - U.S. BULKHEAD LINE

LEGEND (CONT'D):

- ∇ ∇ MEAN HIGH WATER SPRING (MHWS) +0.89 FT LIMITS
- . - . MEAN HIGH WATER (MHW) +0.00 FT LIMITS
- ∧ ∧ MEAN LOW WATER (MLW) -4.70 FT LIMITS



DREDGING QUANTITIES (BELOW SHW)		
CABLE TRENCH AND PITS		
DREDGE TO DESIGN DEPTH (VARIES)	OVER DREDGE ALLOWANCE (2.0 FT)	TOTAL DREDGE VOLUME
77,000 CY	9,000 CY	86,000 CY

DREDGING AREAS (BELOW SHW)		
CABLE TRENCH AND PITS		
DREDGE TO DESIGN DEPTH (VARIES)	AREA FOR BOTTOM OUTLINE OF TRENCH	AREA FOR TOP OUTLINE OF TRENCH
	121,500 SQ.FT	313,550 SQ.FT
	2.79 ACRES	7.20 ACRES

NOTES:

- EXISTING FEATURES ARE BASED ON AS-BUILTS.
- DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
- AN ESTIMATED TOTAL VOLUME OF 86,000 CU.YDS OF SEDIMENT WILL BE REMOVED VIA MECHANICAL DREDGING. ALL DREDGED MATERIAL WILL BE MOVED OFFSITE VIA BARGE AND DISPOSED OFFSITE, IN AN UPLAND LOCATION IN ACCORDANCE WITH ALL REGULATIONS AND PERMIT REQUIREMENTS. BARGE POSITIONING METHOD TO BE DETERMINED.



TITLE: LANDFALL SITE PLAN CONCEPT
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 ISSUED FOR USACE PERMIT APPLICATION

LOCATION: 2ND AVE
 BROOKLYN, NY 11232
 LEASE AREA: OCS-A 0512
 LAT/LONG: 40.660, -74.008
 WATERBODY: GOWANUS BAY
 SHEET 2 OF 13 DATE: 11/03/22

Jacobs
 ONE PENN PLAZA
 54TH FLOOR, SUITE 5420
 NEW YORK, NY 10119
 Certificate of Authorization #: 00115863

NO	REVISION	DATE
1	ISSUE TO USACE	10/03/22
2	ISSUE TO USACE	11/03/22

EMPIRE OFFSHORE WIND LLC
 EMPIRE WIND 1
 DREDGING PLAN AT CABLE LANDFALL

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

DESIGN: CK
 Scale at ANSI A 1" = 200'
 Vertical (feet)

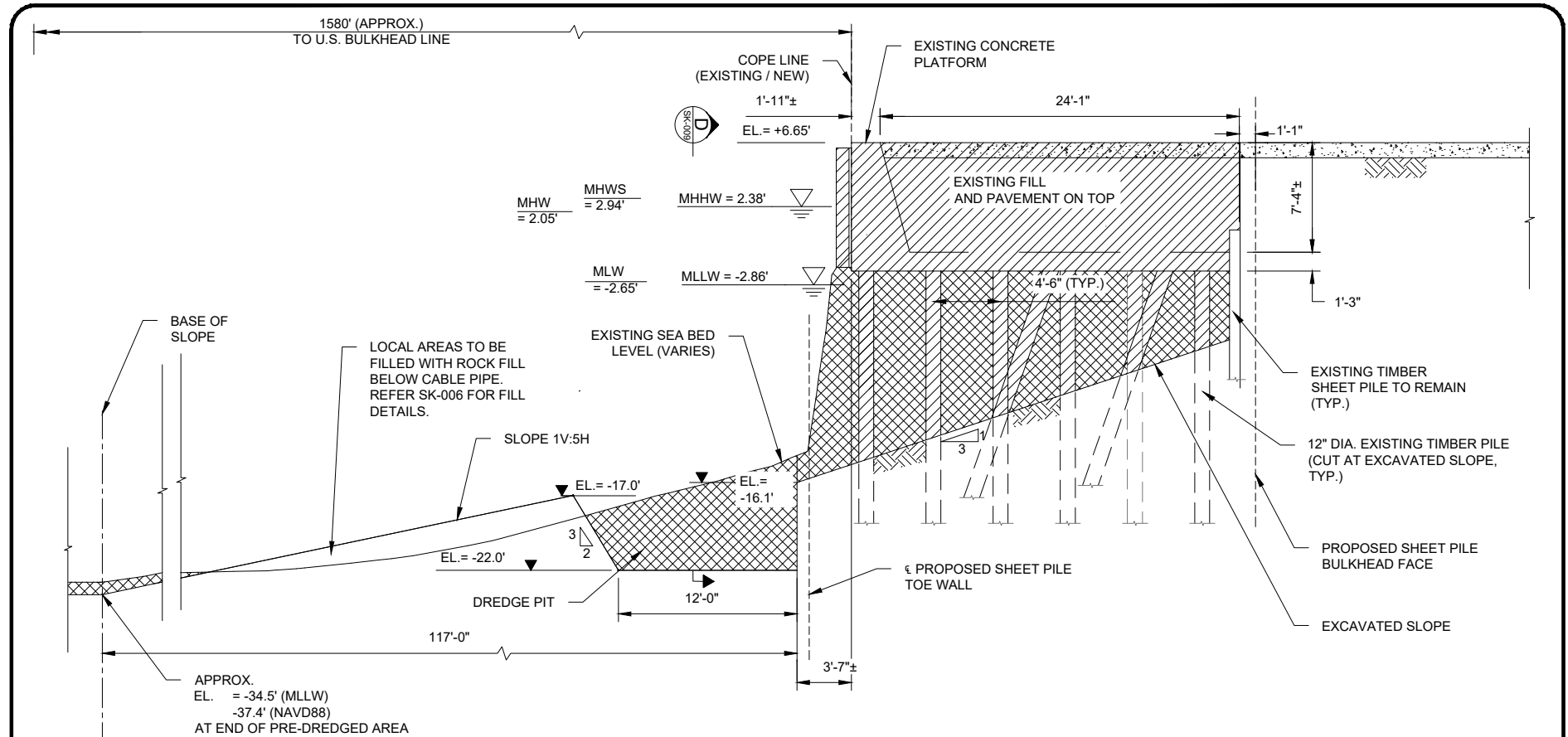
Date	Drawn	Checked	Approved
09/23/2022	MA	CK	TK

Drawing Number
SK-002

File Number	Status	Rev
NAN-2022-00901-EMI	PRE	2



BAR MEASURES 1 INCH



A CABLE LANDFALL
SK-001 SCALE 3/32"=1'-0"

- LEGEND:**
- DEMOLITION SCOPE - EXISTING LOW LEVEL PLATFORM, PILES (PARTIALLY) AND FILL ABOVE
 - DREDGE/ EXCAVATION SCOPE

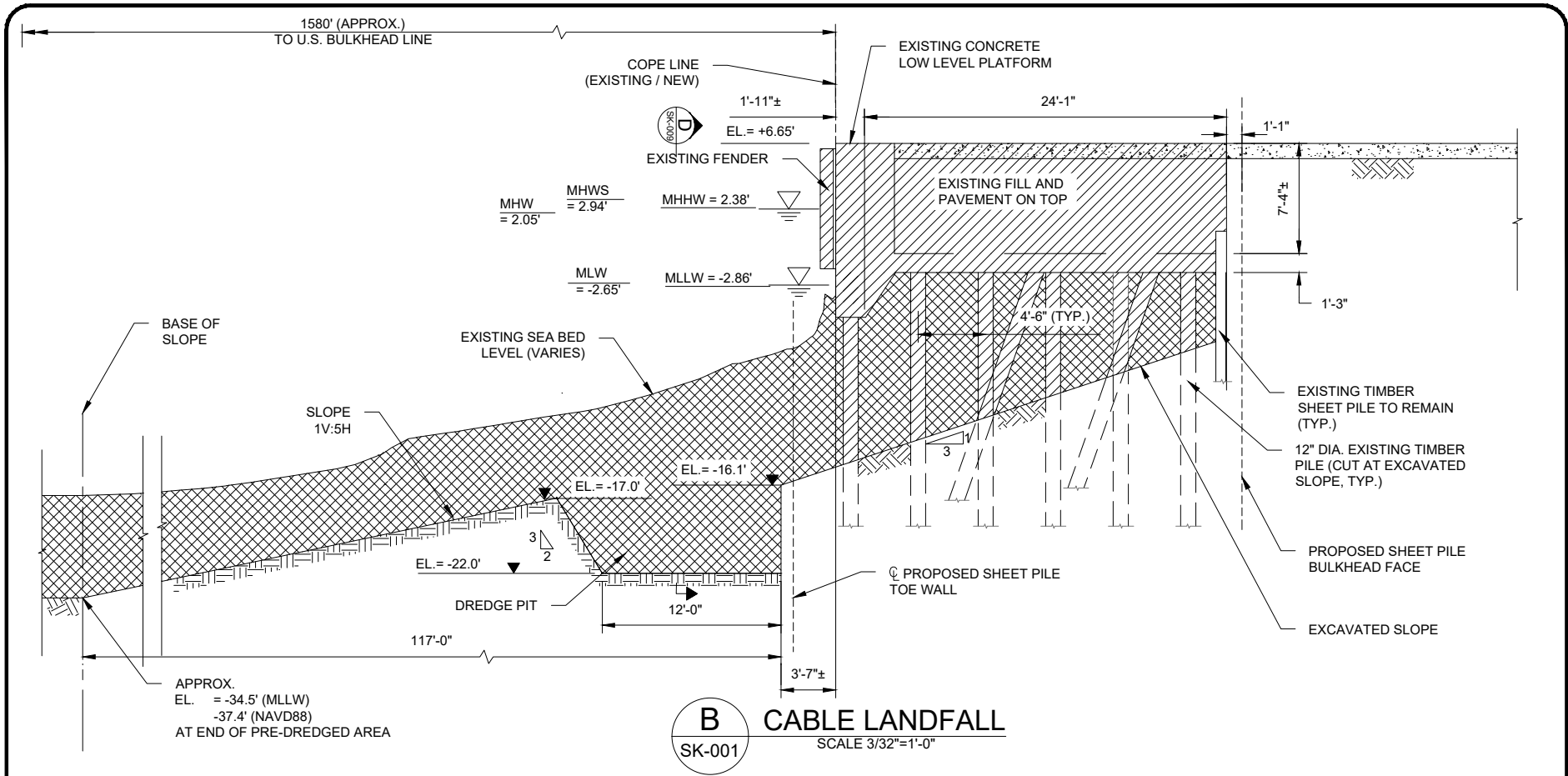


- NOTES:**
- EXISTING FEATURES SHOWN ON THIS SECTION ARE BASED ON AS-BUILTS.
 - DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
 - ALL ELEVATIONS ARE IN REFERENCE TO NAVD88 DATUM.

- USACE IMPACTS:**
DREDGING VOLUME IMPACTS FOR THESE PROPOSED UPGRADES:
- DREDGING VOLUME: REFER SK-002
 - FILL VOLUME FOR TRENCH: REFER SK-011

TITLE: LANDFALL SITE PLAN CONCEPT APPLICANT NAME: EMPIRE OFFSHORE WIND LLC PROPOSED PROJECT: EMPIRE WIND 1 PROJECT ISSUED FOR USACE PERMIT APPLICATION		LOCATION: 2ND AVE BROOKLYN, NY 11232 LEASE AREA: OCS-A 0512 LAT/LONG: 40.660, -74.008 WATERBODY: GOWANUS BAY SHEET 3 OF 13 DATE: 11/03/22		ONE PENN PLAZA 54TH FLOOR, SUITE 5420 NEW YORK, NY 10119 Certificate of Authorization #: 00115863		NO. REVISION DATE 1 ISSUE TO USACE 10/03/22 2 ISSUE TO USACE 11/03/22		EMPIRE OFFSHORE WIND LLC DESN: CK Scale at ANSI A 3/32" = 1'-0" Vertical (feet)	
Date	Drawn	Checked	Approved	Drawing Number	File Number	Status	Rev	WWW.TETRATECH.COM 10 POST OFFICE SQUARE, 11TH FLOOR BOSTON, MA 02109 Phone: (617) 443-7500 Fax: (617) 737-3480	
09/23/2022	MA	CK	TK	SK-003	NAN-2022-00901-EMI	PRE	2		

BAR MEASURES 1 INCH



B CABLE LANDFALL
 SK-001
 SCALE 3/32"=1'-0"

LEGEND:

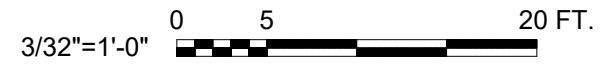
- DEMOLITION SCOPE - EXISTING LOW LEVEL PLATFORM, PILES (PARTIALLY) AND FILL ABOVE
- DREDGE/ EXCAVATION SCOPE

NOTES:

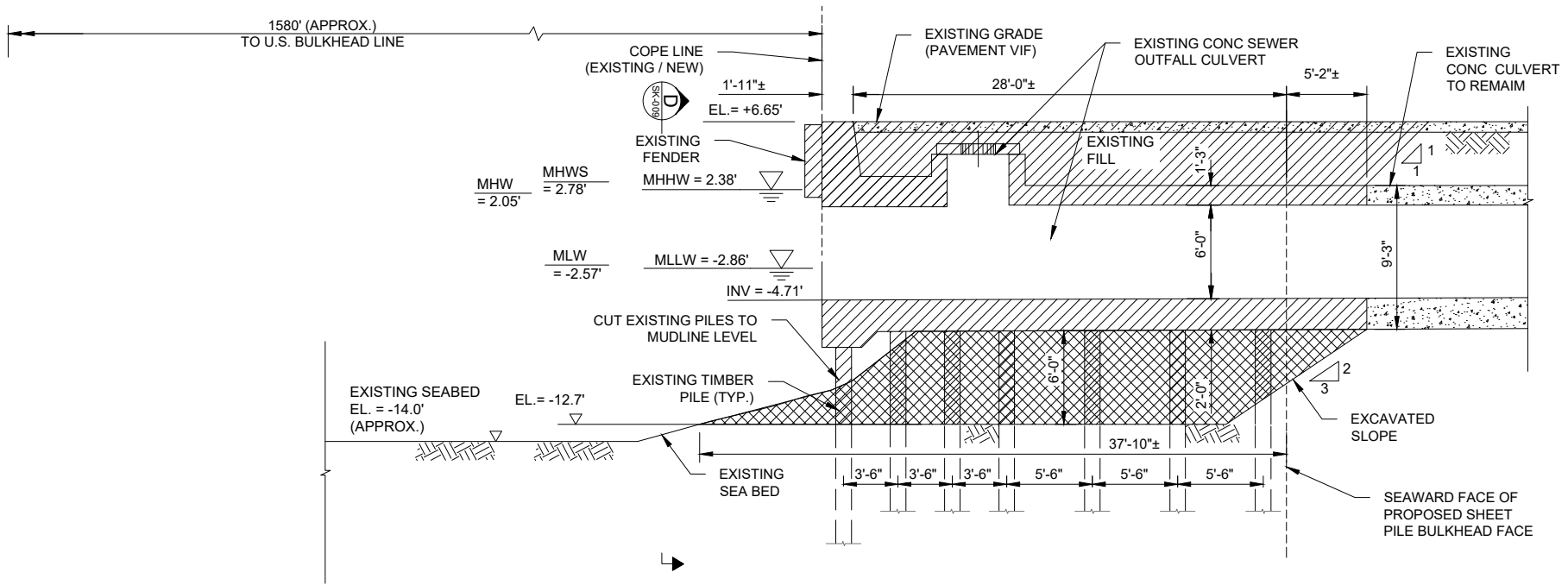
1. EXISTING FEATURES SHOWN ON THIS SECTION ARE BASED ON AS-BUILTS.
2. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
3. ALL ELEVATIONS ARE IN REFERENCE TO NAVD88 DATUM.

USACE IMPACTS:

- DREDGING VOLUME IMPACTS FOR THESE PROPOSED UPGRADES:
- DREDGING VOLUME: REFER SK-002
 - FILL VOLUME FOR TRENCH: REFER SK-011



TITLE: LANDFALL SITE PLAN CONCEPT APPLICANT NAME: EMPIRE OFFSHORE WIND LLC PROPOSED PROJECT: EMPIRE WIND 1 PROJECT ISSUED FOR USACE PERMIT APPLICATION		LOCATION: 2ND AVE BROOKLYN, NY 11232 LEASE AREA: OCS-A 0512 LAT/LONG: 40.660, -74.008 WATERBODY: GOWANUS BAY SHEET 4 OF 13 DATE: 11/03/22		ONE PENN PLAZA 54TH FLOOR, SUITE 5420 NEW YORK, NY 10119 Certificate of Authorization #: 00115863		NO. REVISION DATE 1. ISSUE TO USACE 10/03/22 2. ISSUE TO USACE 11/03/22		EMPIRE OFFSHORE WIND LLC DESN: CK	
						EMPIRE WIND 1 DEMOLITION AND DREDGING SECTION B-B WWW.TETRATECH.COM 10 POST OFFICE SQUARE, 11TH FLOOR BOSTON, MA 02109 Phone: (617) 443-7500 Fax: (617) 737-3480		Scale at ANSI A 3/32" = 1'-0" Vertical (feet)	
Date	Drawn	Checked	Approved	Drawing Number	File Number	Status	Rev	BAR MEASURES 1 INCH	
09/23/2022	MA	CK	TK	SK-004	NAN-2022-00901-EMI	PRE	2		



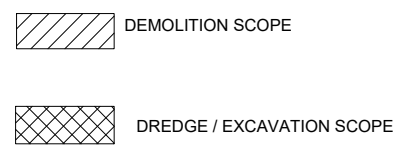
C EXISTING SECTION AT SEWER OUTFALL CULVERT
 SK-001 SCALE 3/32"=1'-0"

USACE IMPACTS:
 DREDGING VOLUME IMPACTS FOR
 THESE PROPOSED UPGRADES:
 - DREDGING VOLUME: 5,000 CU.FT
 (186 CU. YARD)

NOTES:

- EXISTING FEATURES SHOWN ON THIS SECTION ARE BASED ON AS-BUILTS.
- DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
- DEMOLITION SHALL BE CARRIED OUT FOR EXISTING PLATFORM AND OUTFALL CULVERT PILES.
- ALL ELEVATIONS ARE IN REFERENCE TO NAVD88 DATUM.

LEGEND:



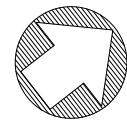
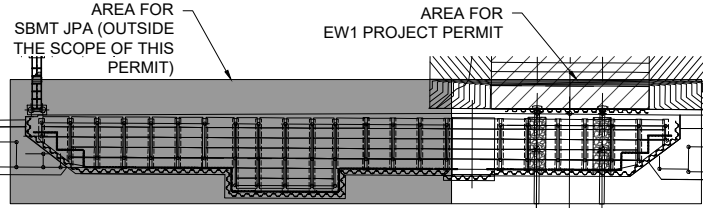
TITLE: LANDFALL SITE PLAN CONCEPT APPLICANT NAME: EMPIRE OFFSHORE WIND LLC PROPOSED PROJECT: EMPIRE WIND 1 PROJECT ISSUED FOR USACE PERMIT APPLICATION		LOCATION: 2ND AVE BROOKLYN, NY 11232 LEASE AREA: OCS-A 0512 LAT/LONG: 40.660, -74.008 WATERBODY: GOWANUS BAY SHEET 5 OF 13 DATE: 11/03/22		Jacobs ONE PENN PLAZA 54TH FLOOR, SUITE 5420 NEW YORK, NY 10119 Certificate of Authorization #: 00115863		NO. 1 REVISION: ISSUE TO USACE DATE: 10/03/22 NO. 2 REVISION: ISSUE TO USACE DATE: 11/03/22		EMPIRE OFFSHORE WIND LLC DESN: CK Scale at ANSI A 3/32" = 1'-0" Vertical (feet)	
Date	Drawn	Checked	Approved	Drawing Number	File Number	Status	Rev	WWW.TETRATECH.COM 10 POST OFFICE SQUARE, 11TH FLOOR BOSTON, MA 02109 Phone: (617) 443-7500 Fax: (617) 737-3480	
09/23/2022	MA	CK	TK	SK-005	NAN-2022-00901-EMI	PRE	2		

BAR MEASURES 1 INCH

NOTES:

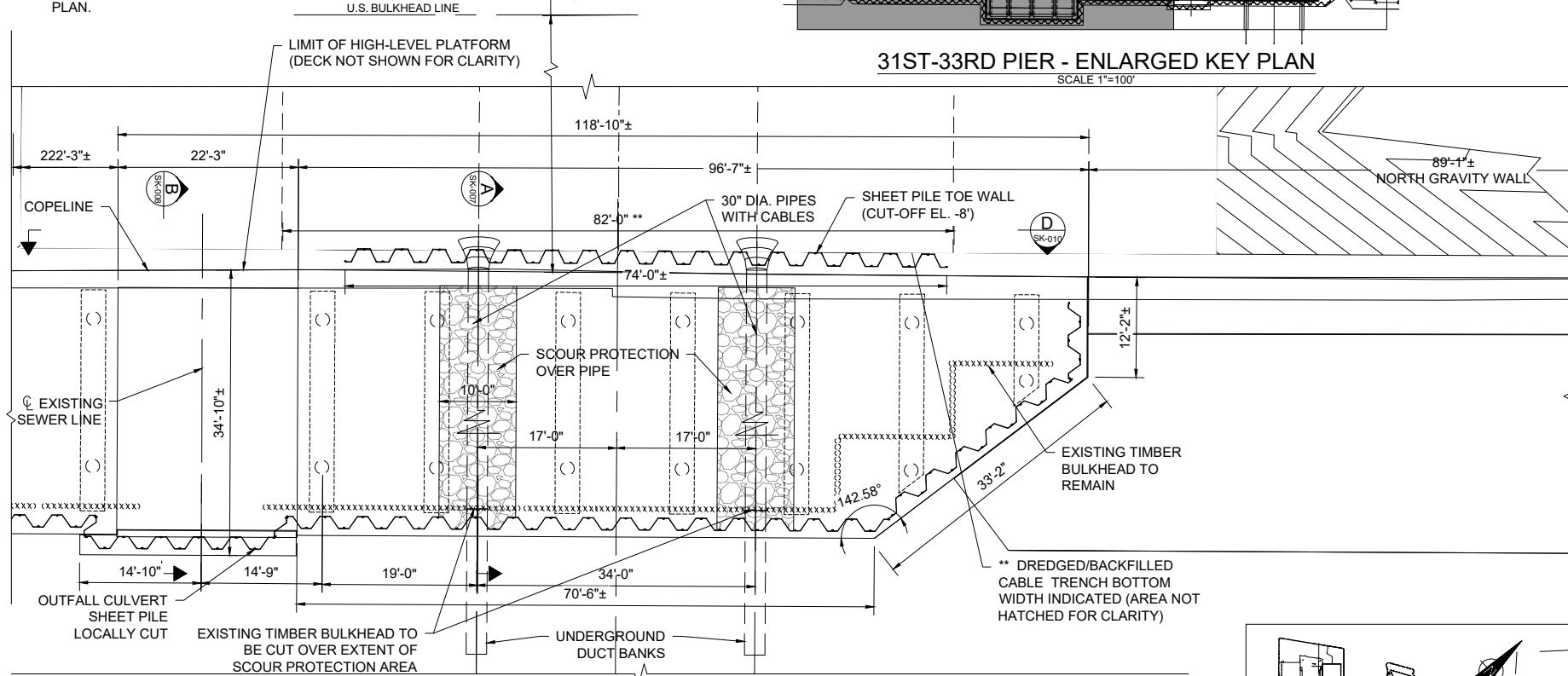
1. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
2. REFER SK-007 FOR DETAILS OF SCOUR PROTECTION LAYER OVER CABLE LANDFALL
3. FILL OVER CABLE IN FRONT OF BULKHEAD IS NOT SHOWN FOR CLARITY. REFER SK-011 FOR DETAILED PLAN.

1580'-0" (APPROX.) REFER SK-002 FOR EXACT LOCATION



31ST-33RD PIER - ENLARGED KEY PLAN

SCALE 1"=100'

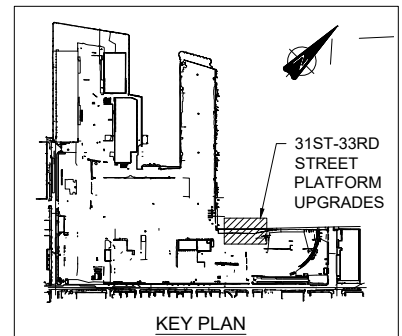
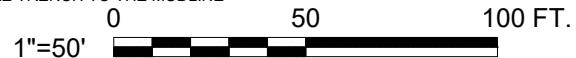


31ST-33RD PIER - HIGH LEVEL PLATFORM AND CABLE LANDFALL - LAYOUT

SCALE 1"=20'

CONSTRUCTION SEQUENCE:

1. INSTALL A SHEET PILE WALL BEHIND THE EXISTING TIMBER SHEET PILE (REFER SK-006,SK-007)
2. REMOVE EXISTING LOW-LEVEL PLATFORM.(REFER SK-001,SK-003,SK-004)
3. INSTALL NEW PILE SUPPORTED HIGH LEVEL PLATFORM
4. INSTALL SHEET PILES IN FRONT OF THE EXISTING LOW LEVEL PLATFORM TO THE MUDLINE (REFER SK-006, SK-007).
5. EXCAVATE LOCAL DREDGE PITS FOR CONDUIT INSTALLATION (REFER SK-002 TO SK-004).
6. INSTALL CONDUITS THROUGH BULKHEAD WALL (REFER SK-006, SK-007).
7. INSTALL SUBMARINE EXPORT CABLE, ANCHOR TO SHORE AND BACKFILL THE CABLE TRENCH TO THE MUDLINE (REFER SK-006, SK-007)



TITLE: LANDFALL SITE PLAN CONCEPT
 APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
 PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
 ISSUED FOR USACE PERMIT APPLICATION

LOCATION: 2ND AVE
 BROOKLYN, NY 11232
 LEASE AREA: OCS-A 0512
 LAT/LONG: 40.660, -74.008
 WATERBODY: GOWANUS BAY
 SHEET 6 OF 13 DATE: 11/03/22

Jacobs
 ONE PENN PLAZA
 54TH FLOOR, SUITE 5420
 NEW YORK, NY 10119
 Certificate of Authorization #: 00115863

NO	REVISION	DATE
1	ISSUE TO USACE	10/03/22
2	ISSUE TO USACE	11/03/22

EMPIRE OFFSHORE WIND LLC

EMPIRE WIND 1
 PROPOSED LAYOUT

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

DESIGN: CK
 Scale at ANSI A 1" = 50'
 Vertical (feet)

Date	Drawn	Checked	Approved
09/23/2022	MA	CK	TK

Drawing Number
SK-006

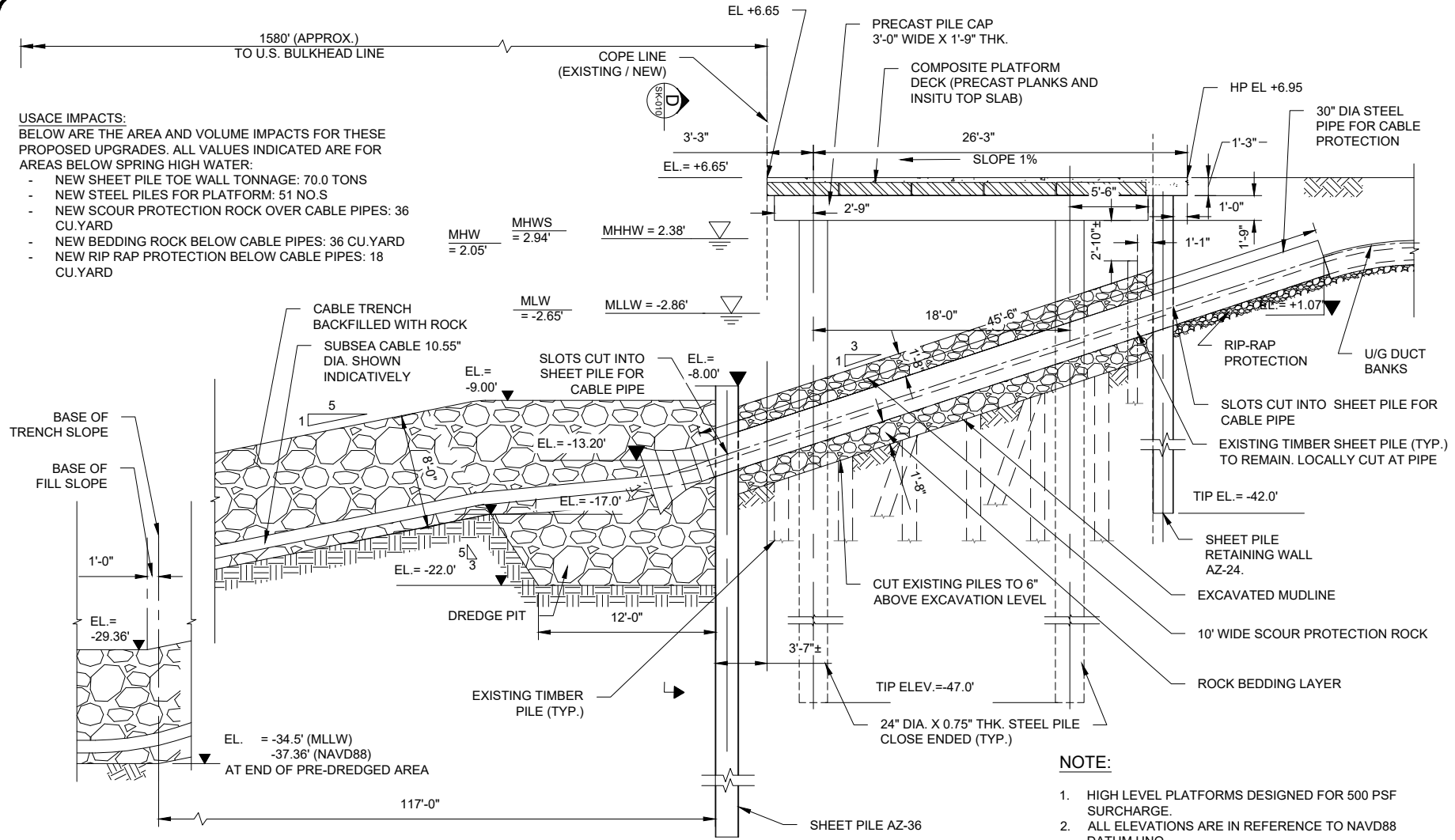
File Number	Status	Rev
NAN-2022-00901-EMI	PRE	2

BAR MEASURES 1 INCH

USACE IMPACTS:

BELOW ARE THE AREA AND VOLUME IMPACTS FOR THESE PROPOSED UPGRADES. ALL VALUES INDICATED ARE FOR AREAS BELOW SPRING HIGH WATER:

- NEW SHEET PILE TOE WALL TONNAGE: 70.0 TONS
- NEW STEEL PILES FOR PLATFORM: 51 NO.S
- NEW SCOUR PROTECTION ROCK OVER CABLE PIPES: 36 CU.YARD
- NEW BEDDING ROCK BELOW CABLE PIPES: 36 CU.YARD
- NEW RIP RAP PROTECTION BELOW CABLE PIPES: 18 CU.YARD



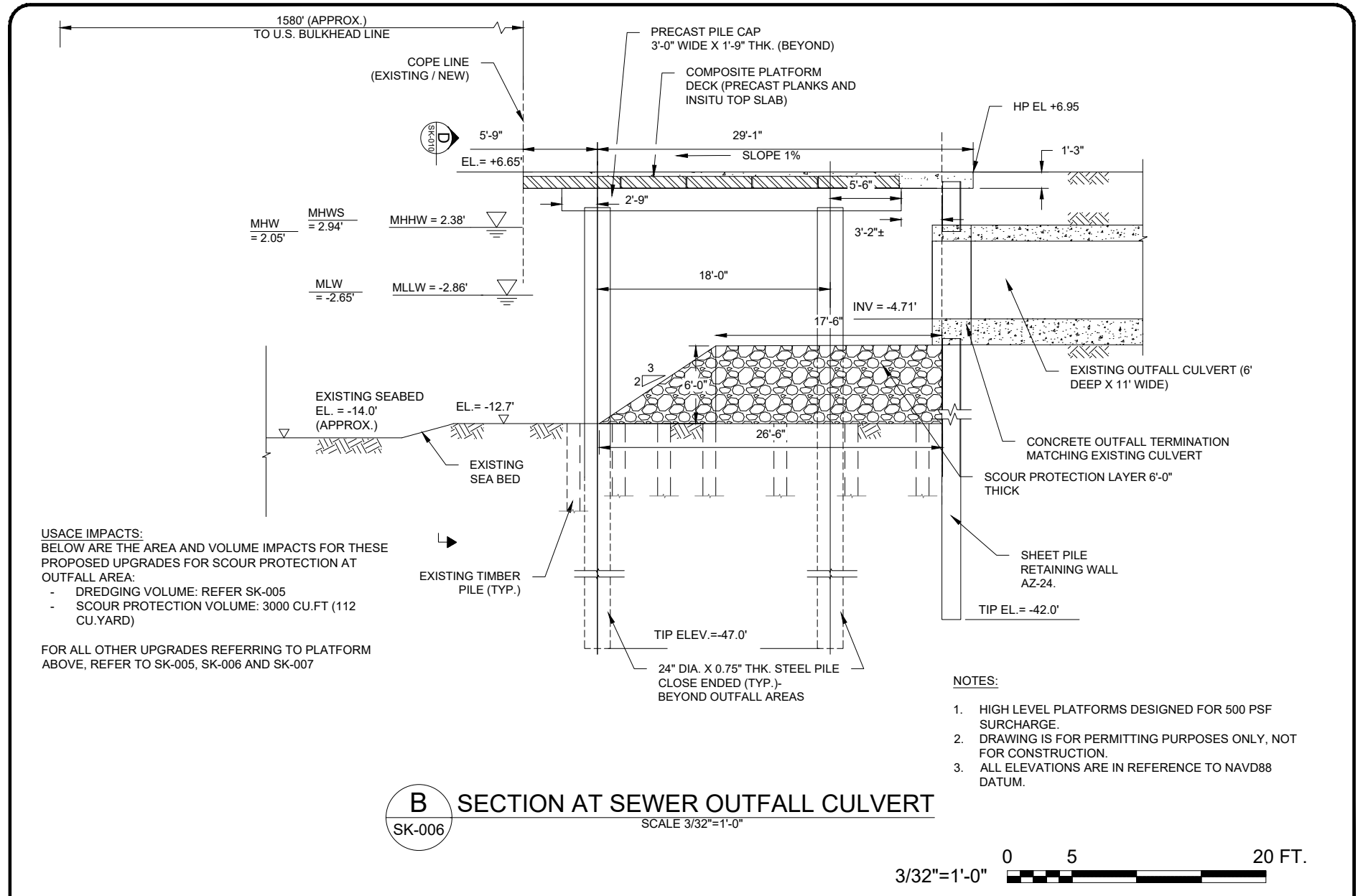
A HIGH LEVEL PLATFORM AND SUBSEA CABLE - SECTION
 SK-006 SCALE 3/32"=1'-0"

(NOTE: REFER SK-006 FOR LAYOUT) 3/32"=1'-0" 0 5 20 FT.

- NOTE:**
1. HIGH LEVEL PLATFORMS DESIGNED FOR 500 PSF SURCHARGE.
 2. ALL ELEVATIONS ARE IN REFERENCE TO NAVD88 DATUM UNO.

TITLE: LANDFALL SITE PLAN CONCEPT APPLICANT NAME: EMPIRE OFFSHORE WIND LLC PROPOSED PROJECT: EMPIRE WIND 1 PROJECT ISSUED FOR USACE PERMIT APPLICATION				LOCATION: 2ND AVE BROOKLYN, NY 11232 LEASE AREA: OCS-A 0512 LAT/LONG: 40.660, -74.008 WATERBODY: GOWANUS BAY SHEET 7 OF 13 DATE: 11/03/22		Jacobs ONE PENN PLAZA 54TH FLOOR, SUITE 5420 NEW YORK, NY 10119 Certificate of Authorization #: 00115863		NO. 1 REVISION: ISSUE TO USACE DATE: 10/03/22		EMPIRE OFFSHORE WIND LLC DESN: CK	
Date: 09/23/2022 Drawn: MA Checked: CK Approved: TK				Drawing Number: SK-007		File Number: NAN-2022-00901-EMI Status: PRE Rev: 2		NO. 2 REVISION: ISSUE TO USACE DATE: 11/03/22		EMPIRE WIND 1 PLATFORM SECTION AT CABLE LANDFALL Scale at ANSI A 3/32" = 1'-0" Vertical (feet)	
www.tetrattech.com 10 POST OFFICE SQUARE, 11TH FLOOR BOSTON, MA 02109 Phone: (617) 443-7500 Fax: (617) 737-3480											

BAR MEASURES 1 INCH

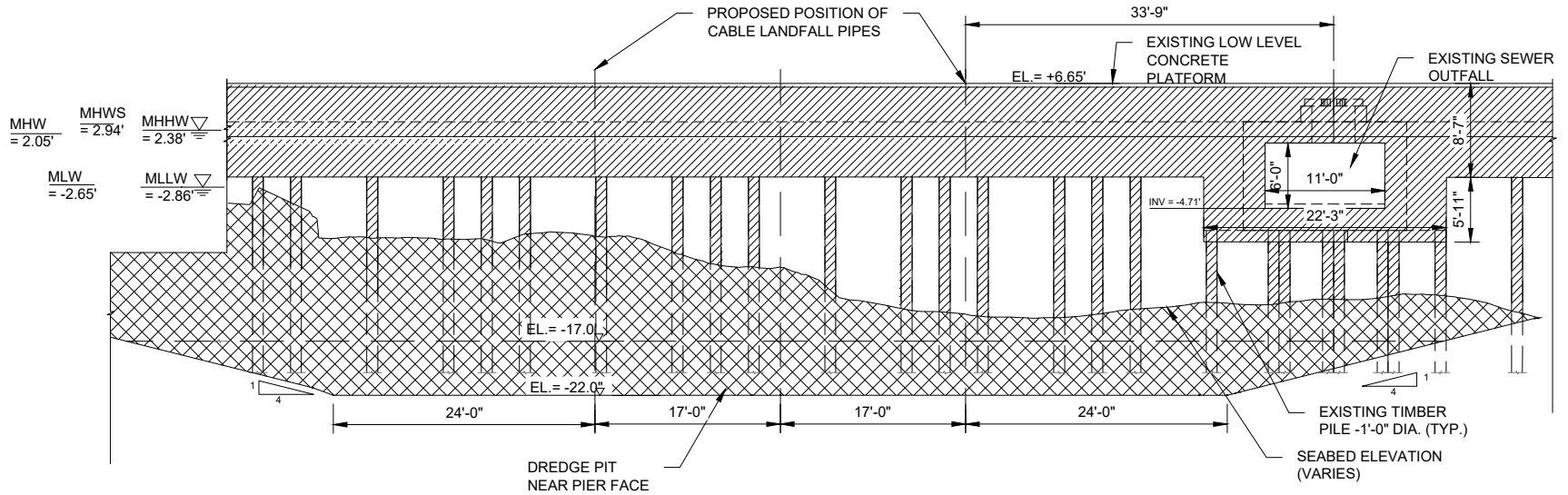


B SECTION AT SEWER OUTFALL CULVERT
SK-006 SCALE 3/32"=1'-0"



TITLE: LANDFALL SITE PLAN CONCEPT APPLICANT NAME: EMPIRE OFFSHORE WIND LLC PROPOSED PROJECT: EMPIRE WIND 1 PROJECT ISSUED FOR USACE PERMIT APPLICATION		LOCATION: 2ND AVE BROOKLYN, NY 11232 LEASE AREA: OCS-A 0512 LAT/LONG: 40.660, -74.008 WATERBODY: GOWANUS BAY SHEET 8 OF 13 DATE: 11/03/22		Jacobs ONE PENN PLAZA 54TH FLOOR, SUITE 5420 NEW YORK, NY 10119 Certificate of Authorization #: 00115863		<table border="1"> <thead> <tr> <th>NO</th> <th>REVISION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ISSUE TO USACE</td> <td>10/03/22</td> </tr> <tr> <td>2</td> <td>ISSUE TO USACE</td> <td>11/03/22</td> </tr> </tbody> </table>		NO	REVISION	DATE	1	ISSUE TO USACE	10/03/22	2	ISSUE TO USACE	11/03/22	EMPIRE OFFSHORE WIND LLC DESN: CK Scale at ANSI A 3/32" = 1'-0" Vertical (feet)	
NO	REVISION	DATE																
1	ISSUE TO USACE	10/03/22																
2	ISSUE TO USACE	11/03/22																
Date: 09/23/2022 Drawn: MA Checked: CK Approved: TK		Drawing Number: SK-008 File Number: NAN-2022-00901-EMI Status: PRE Rev: 2		WWW.TETRATECH.COM 10 POST OFFICE SQUARE, 11TH FLOOR BOSTON, MA 02109 Phone: (617) 443-7500 Fax: (617) 737-3480		EMPIRE WIND 1 PLATFORM SECTION AT OUTFALL CULVERT												

BAR MEASURES 1 INCH



D EXISTING LONGITUDINAL SECTION AT CABLE LANDFALL AND OUTFALL
SCALE 1/16"=1'-0"

SK-001
SK-003
SK-004
SK-005

LEGEND:

- DEMOLITION SCOPE - EXISTING LOW LEVEL PLATFORM, PILES (PARTIALLY) AND FILL BEHIND THE PLATFORM
- DREDGE/ EXCAVATION SCOPE

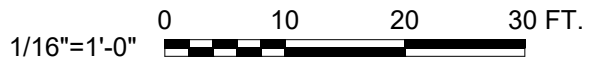
NOTES:

1. EXISTING FEATURES SHOWN ON THIS SECTION ARE BASED ON AS-BUILTS.
2. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
3. ALL ELEVATIONS ARE IN REFERENCE TO NAVD88 DATUM.

USACE IMPACTS:
DREDGING VOLUME IMPACTS FOR THESE PROPOSED UPGRADES:
- DREDGING VOLUME: REFER SK-002

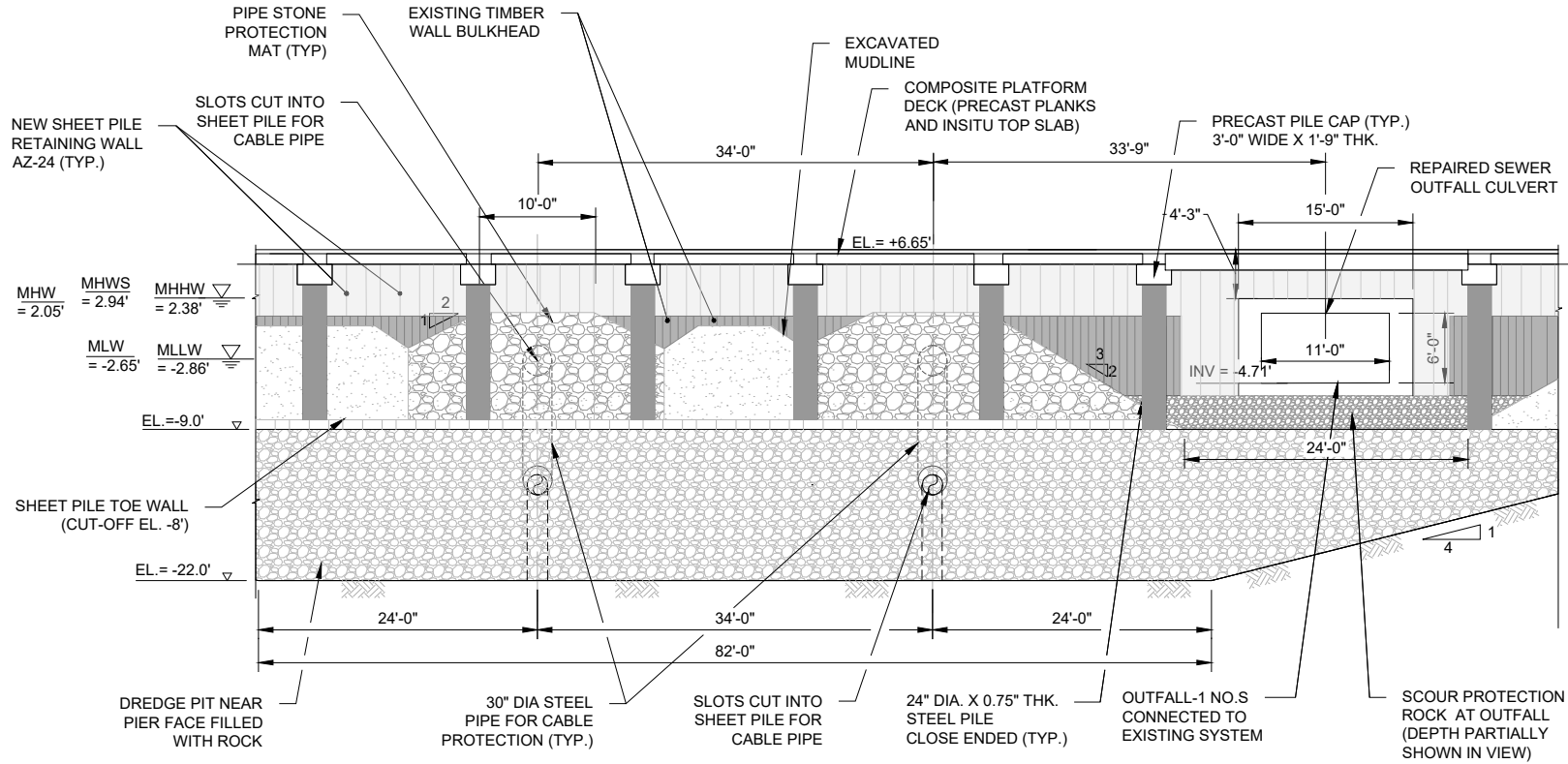
DREDGING VOLUME AT OUTFALL AREA FOR SCOUR PROTECTION: REFER SK-005

FOR ALL OTHER UPGRADES REFERRING TO PLATFORM ABOVE, REFER TO REFER SK-006, SK-007 AND SK-008



TITLE: LANDFALL SITE PLAN CONCEPT APPLICANT NAME: EMPIRE OFFSHORE WIND LLC PROPOSED PROJECT: EMPIRE WIND 1 PROJECT ISSUED FOR USACE PERMIT APPLICATION		LOCATION: 2ND AVE BROOKLYN, NY 11232 LEASE AREA: OCS-A 0512 LAT/LONG: 40.660, -74.008 WATERBODY: GOWANUS BAY SHEET 9 OF 13 DATE: 11/03/22		ONE PENN PLAZA 54TH FLOOR, SUITE 5420 NEW YORK, NY 10119 Certificate of Authorization #: 00115863		NO REVISION DATE		EMPIRE OFFSHORE WIND LLC DESN: CK	
						1 ISSUE TO USACE 10/03/22		2 ISSUE TO USACE 11/03/22	
Date	Drawn	Checked	Approved	Drawing Number	File Number	Status	Rev		
09/23/2022	MA	CK	TK	SK-009	NAN-2022-00901-EMI	PRE	2		

BAR MEASURES 1 INCH



D LONGITUDINAL SECTION AT CABLE LANDFALL AND OUTFALL

SCALE 1/16"=1'-0"

SK-006
SK-007
SK-008

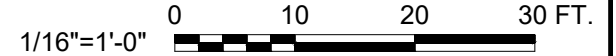
(NOTE: SCOUR PROTECTION OVER PIPE AND AREA IN FRONT OF OUTFALL NOT SHOWN FOR CLARITY)

USACE IMPACTS:

- REFER SK-005, SK-007 AND SK-008

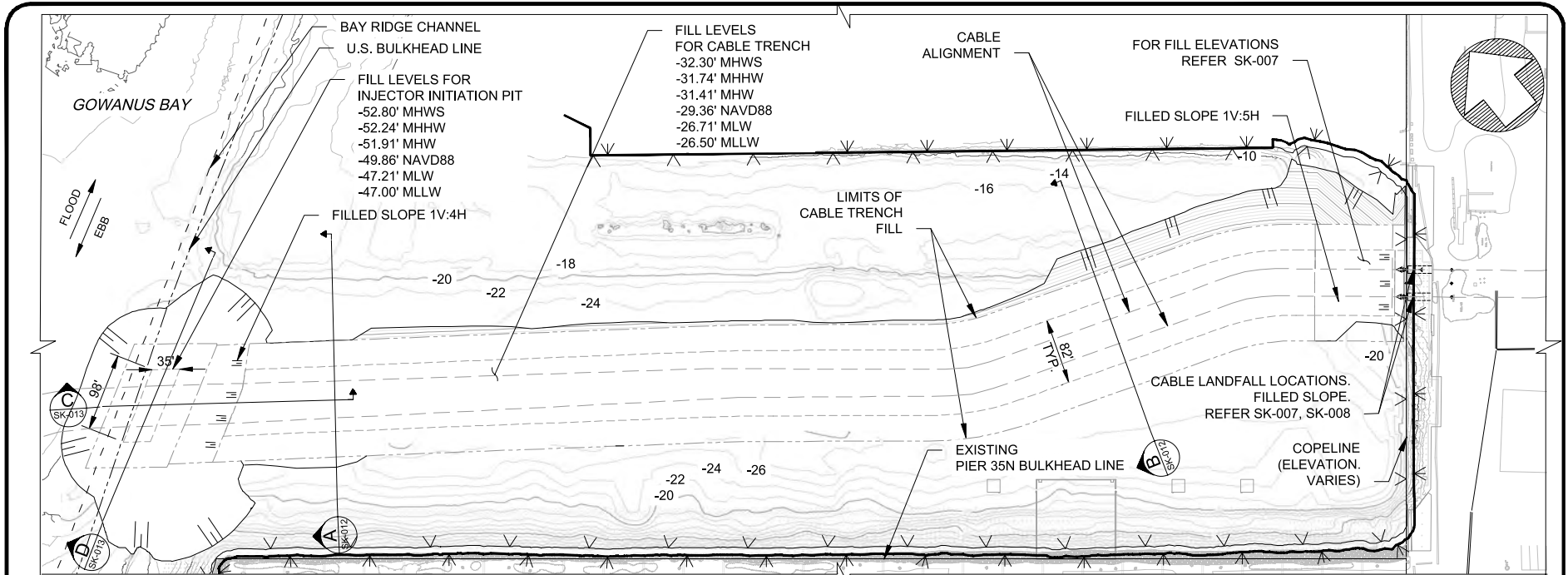
NOTES:

1. CONCRETE PAD PLATFORMS DESIGNED FOR 500 PSF SURCHARGE.
2. ALL ELEVATIONS ARE IN REFERENCE TO NAVD88 DATUM.



TITLE: LANDFALL SITE PLAN CONCEPT APPLICANT NAME: EMPIRE OFFSHORE WIND LLC PROPOSED PROJECT: EMPIRE WIND 1 PROJECT ISSUED FOR USACE PERMIT APPLICATION				LOCATION: 2ND AVE BROOKLYN, NY 11232 LEASE AREA: OCS-A 0512 LAT/LONG: 40.660, -74.008 WATERBODY: GOWANUS BAY SHEET 10 OF 13 DATE: 11/03/22		Jacobs ONE PENN PLAZA 54TH FLOOR, SUITE 5420 NEW YORK, NY 10119 Certificate of Authorization #: 00115863		NO. REVISION DATE 1 ISSUE TO USACE 10/03/22 2 ISSUE TO USACE 11/03/22		EMPIRE OFFSHORE WIND LLC DESN: CK Scale at ANSI A 3/32" = 1'-0" Vertical (feet)	
Date	Drawn	Checked	Approved	Drawing Number	File Number	Status	Rev	WWW.TETRATTECH.COM 10 POST OFFICE SQUARE, 11TH FLOOR BOSTON, MA 02109 Phone: (617) 443-7500 Fax: (617) 737-3480			
09/23/2022	MA	CK	TK	SK-010	NAN-2022-00901-EMI	PRE	2				

BAR MEASURES 1 INCH



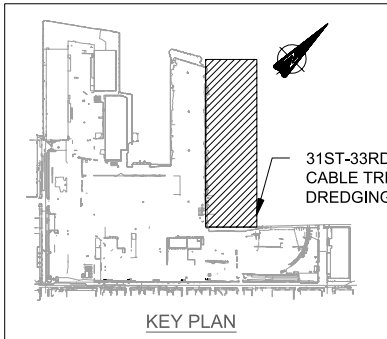
FILLING PLAN
SCALE 1"=200'

LEGEND:

- EXISTING WATER DEPTH RELATIVE TO MLLW (10 FT INTERVAL)
- EXISTING WATER DEPTH RELATIVE TO MLLW (2 FT INTERVAL)
- DREDGING SLOPE (TYPICAL SLOPE 1V:4H UNO)
- FILL OUTLINE FOR CABLE TRENCH
- BAY RIDGE CHANNEL
- U.S. BULKHEAD LINE
- MEAN HIGH WATER SPRING (MHWS) +0.89 FT LIMITS
- MEAN HIGH WATER (MHW) +0.00 FT LIMITS
- MEAN LOW WATER (MLW) -4.70 FT LIMITS

NOTES:

1. EXISTING FEATURES ARE BASED ON AS-BUILTS.
2. DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
3. FILL MATERIAL SHALL BE CLEAN QUARRIED GRAVEL OR SAND AND SHALL BE SOURCED OFF-SITE.



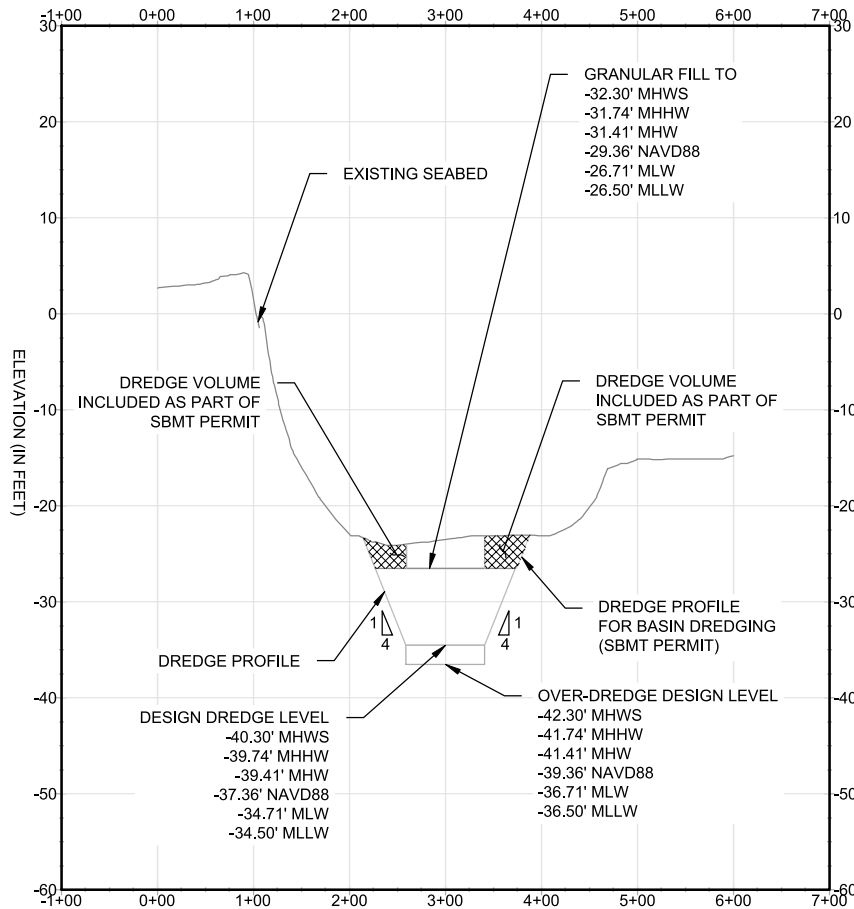
FILL QUANTITIES		
CABLE TRENCH AND PITS		
FILL FROM BOTTOM OF DESIGN DREDGE TO 8FT ABOVE:	FILL FOR OVER DREDGE ALLOWANCE (2.0 FT)	TOTAL FILL VOLUME
53,650 CY	9,000 CY	62,650 CY

FILL AREAS		
CABLE TRENCH AND PITS		
FILL AREAS	AREA FOR BOTTOM TRENCH OUTLINE	AREA FOR TOP FILL OUTLINE
	121,500 SQ.FT	240,450 SQ.FT
	2.79 ACRES	5.52 ACRES

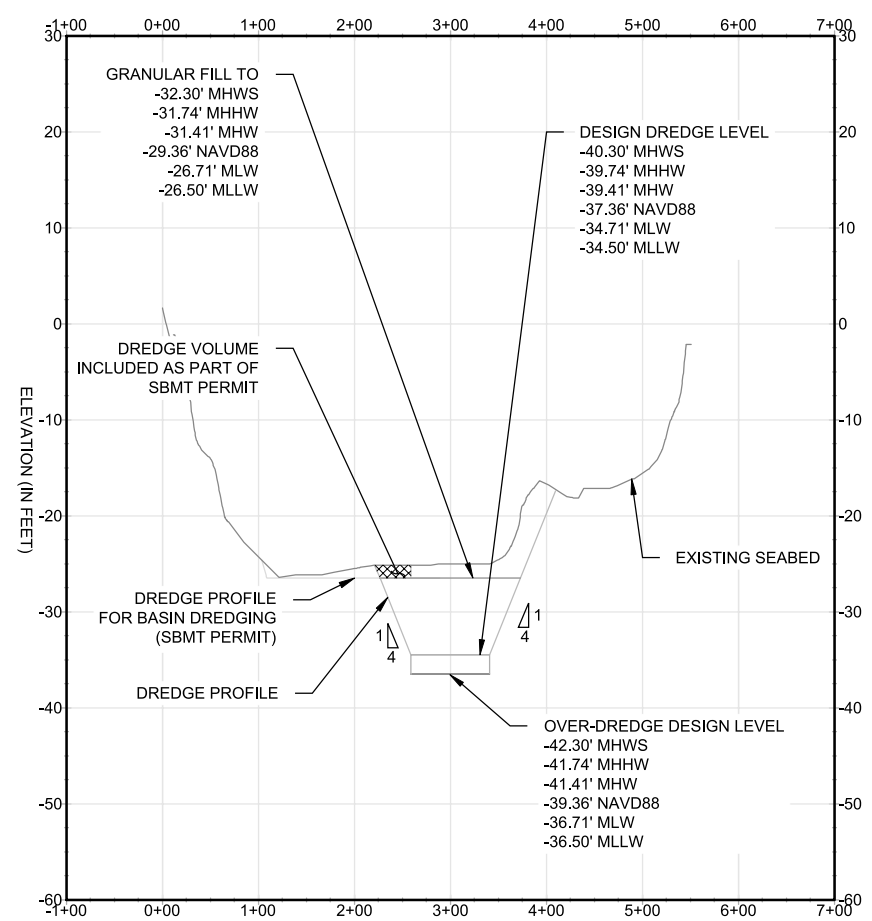


TITLE: LANDFALL SITE PLAN CONCEPT APPLICANT NAME: EMPIRE OFFSHORE WIND LLC PROPOSED PROJECT: EMPIRE WIND 1 PROJECT ISSUED FOR USACE PERMIT APPLICATION		LOCATION: 2ND AVE BROOKLYN, NY 11232 LEASE AREA: OCS-A 0512 LAT/LONG: 40.660, -74.008 WATERBODY: GOWANUS BAY SHEET 11 OF 13 DATE: 11/03/22		Jacobs ONE PENN PLAZA 54TH FLOOR, SUITE 5420 NEW YORK, NY 10119 Certificate of Authorization #: 00115863		NO. REVISION DATE 1 ISSUE TO USACE 10/03/22 2 ISSUE TO USACE 11/03/22		EMPIRE OFFSHORE WIND LLC DESN: CK	
Date	Drawn	Checked	Approved	Drawing Number	File Number	Status	Rev	EMPIRE WIND 1 FILL PLAN AT CABLE LANDFALL WWW.TETRATECH.COM 10 POST OFFICE SQUARE, 11TH FLOOR BOSTON, MA 02109 Phone: (617) 443-7500 Fax: (617) 737-3480	
09/23/2022	MA	CK	TK	SK-011	NAN-2022-00901-EMI	PRE	2	Scale at ANSI A 1" = 40' Vertical (feet)	

BAR MEASURES 1 INCH



A SECTION
SK-002 SCALE 1/16"=1'-0"
SK-011

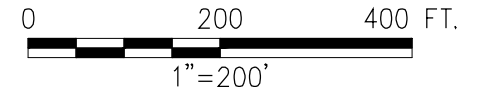


B
SK-002
SK-011

NOTES:

- DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
- SEA BED ELEVATIONS ARE IN FEET AND REFERENCE TO MLLW.

DREDGE AND FILL PROFILE AT CABLE TRENCH



TITLE: LANDFALL SITE PLAN CONCEPT
APPLICANT NAME: EMPIRE OFFSHORE WIND LLC
PROPOSED PROJECT: EMPIRE WIND 1 PROJECT
ISSUED FOR USACE PERMIT APPLICATION

LOCATION: 2ND AVE
BROOKLYN, NY 11232
LEASE AREA: OCS-A 0512
LAT/LONG: 40.660, -74.008
WATERBODY: GOWANUS BAY
SHEET 12 OF 13 DATE: 11/03/22

Jacobs
ONE PENN PLAZA
54TH FLOOR, SUITE 5420
NEW YORK, NY 10119
Certificate of Authorization #: 00115863

NO	REVISION	DATE
1	ISSUE TO USACE	10/03/22
2	ISSUE TO USACE	10/03/22

EMPIRE OFFSHORE WIND LLC
DESIGN: CK
EMPIRE WIND 1 - LANDFALL
CABLE TRENCH PROFILE
SHEET 1 OF 2
WWW.TETRATECH.COM
10 POST OFFICE SQUARE, 11TH FLOOR
BOSTON, MA 02109
Phone: (617) 443-7500 Fax: (617) 737-3480

Scale at ANSIA 1" = 200'-0"
Vertical (feet)

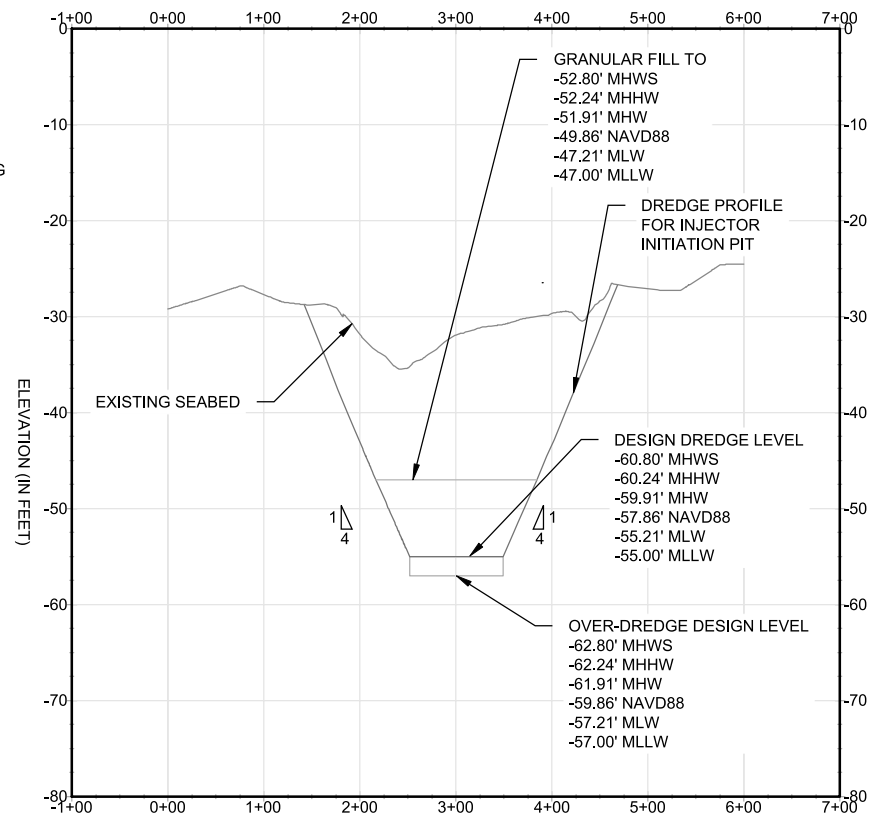
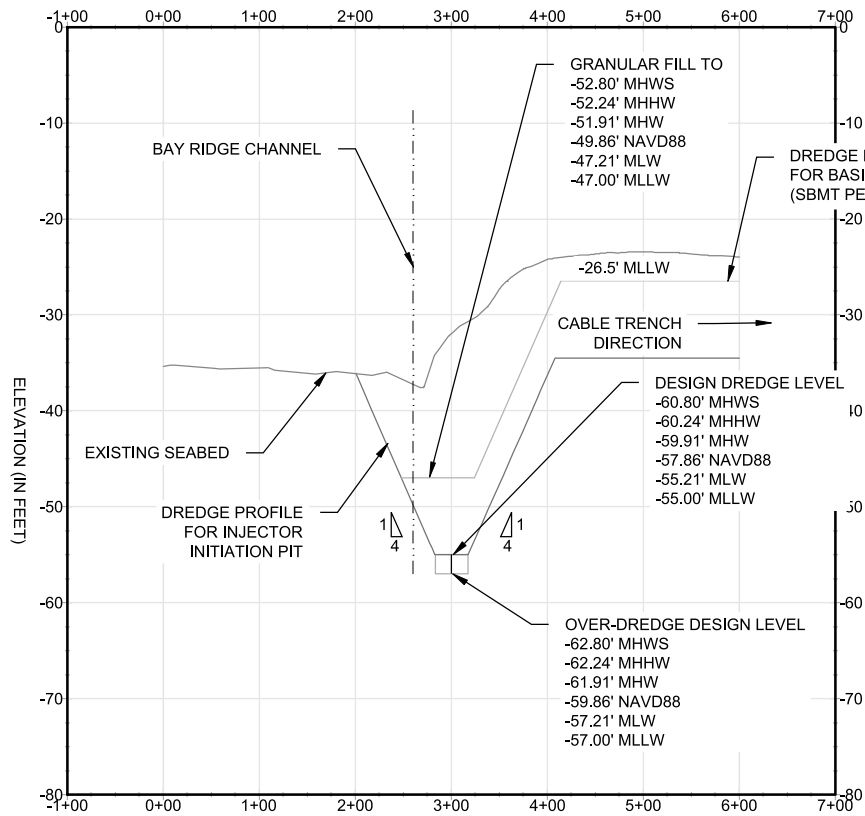
Date	Drawn	Checked	Approved
07/25/2022	MA	CK	TK

Drawing Number
SK-012

File Number	Status	Rev
NAN-2022-00901-EMI	PRE	2



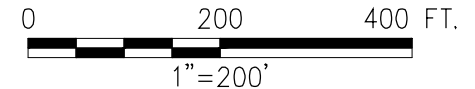
BAR MEASURES 1 INCH



NOTES:

- DRAWING IS FOR PERMITTING PURPOSES ONLY, NOT FOR CONSTRUCTION.
- SEA BED ELEVATIONS ARE IN FEET AND REFERENCE TO MLLW.

DREDGE AND FILL PROFILE AT INJECTOR INITIATION PIT



TITLE: LANDFALL SITE PLAN CONCEPT APPLICANT NAME: EMPIRE OFFSHORE WIND LLC PROPOSED PROJECT: EMPIRE WIND 1 PROJECT ISSUED FOR USACE PERMIT APPLICATION		LOCATION: 2ND AVE BROOKLYN, NY 11232 LEASE AREA: OCS-A 0512 LAT/LONG: 40.660, -74.008 WATERBODY: GOWANUS BAY SHEET 13 OF 13 DATE: 11/03/22		Jacobs ONE PENN PLAZA 54TH FLOOR, SUITE 5420 NEW YORK, NY 10119 Certificate of Authorization #: 00115863		<table border="1"> <thead> <tr> <th>NO</th> <th>REVISION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ISSUE TO USACE</td> <td>10/03/22</td> </tr> <tr> <td>2</td> <td>ISSUE TO USACE</td> <td>11/03/22</td> </tr> </tbody> </table>		NO	REVISION	DATE	1	ISSUE TO USACE	10/03/22	2	ISSUE TO USACE	11/03/22	EMPIRE OFFSHORE WIND LLC DESN: CK Scale at ANSIA 1" = 200'-0" EMPIRE WIND 1 - LANDFALL CABLE TRENCH PROFILE SHEET 2 OF 2 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 TO USACE	10/03/22																
2	ISSUE TO USACE	11/03/22																
Date 07/25/2022	Drawn MA	Checked CK	Approved TK	Drawing Number SK-013	File Number NAN-2022-00901-EMI	Status PRE	Rev 2	Vertical (feet) BAR MEASURES 1 INCH										