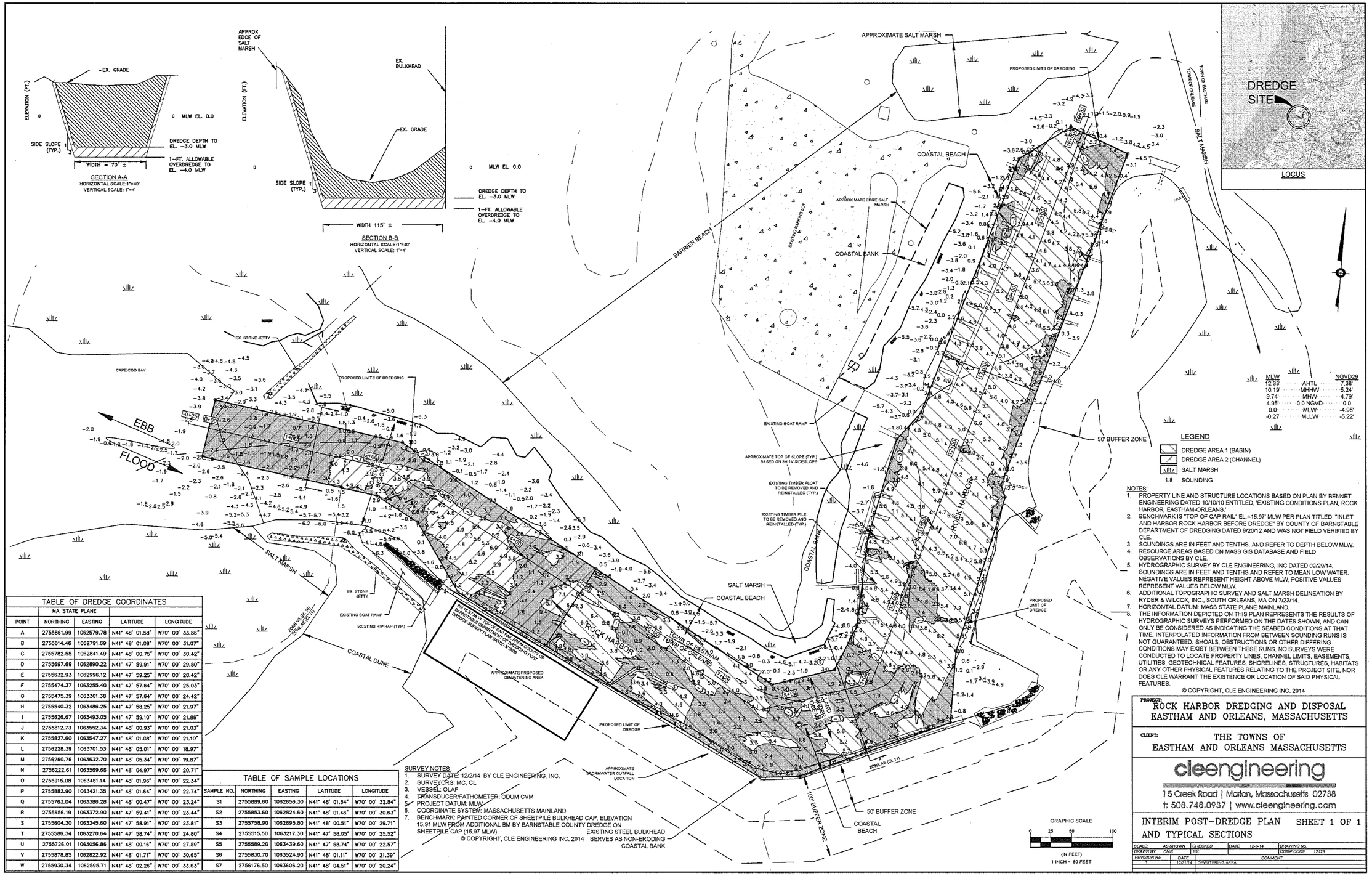

TABLE OF DREDGE COORDINATES				
	MA STATE PLANE			
POINT	NORTHING	EASTING	LATITUDE	LONGITUDE
A	2755861.99	1062579.78	N41° 48' 01.58"	W70° 00' 33.86"
B	2755814.46	1062791.69	N41° 48' 01.08"	W70° 00' 31.07"
C	2755782.55	1062841.49	N41° 48' 00.75"	W70° 00' 30.42"
D	2755697.69	1062890.22	N41° 47' 59.91"	W70° 00' 29.80"
E	2755632.93	1062996.12	N41° 47' 59.25"	W70° 00' 28.42"
F	2755474.37	1063255.40	N41° 47' 57.64"	W70° 00' 25.03"
G	2755475.39	1063301.38	N41° 47' 57.64"	W70° 00' 24.42"
H	2755540.32	1063486.25	N41° 47' 58.25"	W70° 00' 21.97"
I	2755626.67	1063493.05	N41° 47' 59.10"	W70° 00' 21.86"
J	2755812.73	1063552.34	N41° 48' 00.93"	W70° 00' 21.03"
K	2755827.60	1063547.27	N41° 48' 01.08"	W70° 00' 21.10"
L	2756228.39	1063701.53	N41° 48' 05.01"	W70° 00' 18.97"
M	2756260.76	1063632.70	N41° 48' 05.34"	W70° 00' 19.87"
N	2756222.61	1063569.66	N41° 48' 04.97"	W70° 00' 20.71"
O	2755915.08	1063451.14	N41° 48' 01.96"	W70° 00' 22.34"
P	2755882.90	1063421.35	N41° 48' 01.64"	W70° 00' 22.74"
Q	2755763.04	1063386.28	N41° 48' 00.47"	W70° 00' 23.24"
R	2755656.19	1063372.90	N41° 47' 59.41"	W70° 00' 23.44"
S	2755604.30	1063345.60	N41° 47' 58.91"	W70° 00' 23.81"
T	2755586.34	1063270.64	N41° 47' 58.74"	W70° 00' 24.80"
U	2755726.01	1063056.86	N41° 48' 00.16"	W70° 00' 27.59"
V	2755878.85	1062822.92	N41° 48' 01.71"	W70° 00' 30.65"
W	2755930.34	1062595.71	N41° 48' 02.26"	W70° 00' 33.63"

TABLE OF SAMPLE LOCATIONS				
SAMPLE NO.	NORTHING	EASTING	LATITUDE	LONGITUDE
S1	2755889.60	1062856.30	N41° 48' 01.84"	W70° 00' 32.84"
S2	2755853.60	1062824.60	N41° 48' 01.46"	W70° 00' 30.63"
S3	2755758.90	1062895.80	N41° 48' 00.51"	W70° 00' 29.71"
S4	2755515.50	1063217.30	N41° 47' 58.05"	W70° 00' 25.52"
S5	2755589.20	1063439.60	N41° 47' 58.74"	W70° 00' 22.57"
S6	2755830.70	1063524.90	N41° 48' 01.11"	W70° 00' 21.39"
S7	2756176.50	1063606.20	N41° 48' 04.51"	W70° 00' 20.24"

SURVEY NOTES:
1. SURVEY DATE: 12/2/14 BY CLE ENGINEERING, INC.
2. SURVEYORS: MC, CL
3. VESSEL: OLAF
4. TRANSDUCER/FATHOMETER: ODUM CVM
5. PROJECT DATUM: MLW
6. COORDINATE SYSTEM: MASSACHUSETTS MAINLAND
7. BENCHMARK: PAINTED CORNER OF SHEETPILE BULKHEAD CAP, ELEVATION 15.91 MLW FROM ADDITIONAL BM BY BARNSTABLE COUNTY DREDGE ON SHEETPILE CAP (15.97 MLW)

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NOTES:
1. PROPERTY LINE AND STRUCTURE LOCATIONS BASED ON PLAN BY BENNET ENGINEERING DATED 10/10/10 ENTITLED, 'EXISTING CONDITIONS PLAN, ROCK HARBOR, EASTHAM-ORLEANS.'
2. BENCHMARK IS "TOP OF CAP RAIL" EL.=15.97' MLW PER PLAN TITLED "INLET AND HARBOR ROCK HARBOR BEFORE DREDGE" BY COUNTY OF BARNSTABLE DEPARTMENT OF DREDGING DATED 9/20/12 AND WAS NOT FIELD VERIFIED BY CLE.
3. SOUNDINGS ARE IN FEET AND TENTHS, AND REFER TO DEPTH BELOW MLW.
4. RESOURCE AREAS BASED ON MASS GIS DATABASE AND FIELD OBSERVATIONS BY CLE.
5. HYDROGRAPHIC SURVEY BY CLE ENGINEERING, INC DATED 09/29/14. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOW WATER. NEGATIVE VALUES REPRESENT HEIGHT ABOVE MLW, POSITIVE VALUES REPRESENT VALUES BELOW MLW.
6. ADDITIONAL TOPOGRAPHIC SURVEY AND SALT MARSH DELINEATION BY RYDER & WILCOX, INC., SOUTH ORLEANS, MA ON 7/23/14.
7. HORIZONTAL DATUM: MASS STATE PLANE MAINLAND.
8. THE INFORMATION DEPICTED ON THIS PLAN REPRESENTS THE RESULTS OF HYDROGRAPHIC SURVEYS PERFORMED ON THE DATES SHOWN, AND CAN ONLY BE CONSIDERED AS INDICATING THE SEABED CONDITIONS AT THAT TIME. INTERPOLATED INFORMATION FROM BETWEEN SOUNDING RUNS IS NOT GUARANTEED. SHOALS, OBSTRUCTIONS OR OTHER DIFFERING CONDITIONS MAY EXIST BETWEEN THESE RUNS. NO SURVEYS WERE CONDUCTED TO LOCATE PROPERTY LINES, CHANNEL LIMITS, EASEMENTS, UTILITIES, GEOTECHNICAL FEATURES, SHORELINES, STRUCTURES, HABITATS OR ANY OTHER PHYSICAL FEATURES RELATING TO THE PROJECT SITE, NOR DOES CLE WARRANT THE EXISTENCE OR LOCATION OF SAID PHYSICAL FEATURES.

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PROJECT:
ROCK HARBOR DREDGING AND DISPOSAL
EASTHAM AND ORLEANS, MASSACHUSETTS

CLIENT:
THE TOWNS OF
EASTHAM AND ORLEANS MASSACHUSETTS

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15 Creek Road | Marion, Massachusetts 02738
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INTERIM POST-DREDGE PLAN AND TYPICAL SECTIONS

SHEET 1 OF 1

SCALE: AS SHOWN	CHECKED	DATE 12-8-14	DRAWING No.
DRAWN BY: DMG	BY:		COMP. CODE 12123

REVISION No.	DATE	COMMENT
1	12/23/14	DEWATERING AREA