CHANNEL COORDINATES (NAD 83)

U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)	U.S.A.C.O.E. STATION NAME	NORTHING (Y)	EASTING (X)
0Z	204092.85	1256555.29	19S	233988.58	1364144.70
2N	208187.62	1267428.99	20N	234847.49	1365043.15
2S	208087.01	1267445.55	20S	234763.19	1365097.97
3AN	207869.46	1276818.72	21N	236355.39	1368026.01
3AS	207768.48	1276845.70	21S	236251.37	1367984.89
3BN	210154.40	1280495.51	21S1	236116.19	1367784.61
3BS	210070.36	1280549.73	21S2	236201.04	1368317.65
4N	214297.98	1286683.37	22N	236085.13	1365597.40
4S	214181.60	1286689.28	22S	235983.19	1369600.42
5N	212101.19	1290816.88	23N	236132.09	1369795.96
5S	212012.88	1290769.95	23S	236036.61	1369831.07
6N	209353.44	1295987.01	24N	237023.41	1371893.00
6S	209240.53	1295986.38	24S	236926.83	1371921.42
7N	211004.53	1299179.78	25N	237152.92	1372648.85
7S	210911.36	1299217.70	25S	237059.88	1372698.01
8AN	215073.09	1306648.70	26N	237686.42	1373164.24
8AS	214996.54	1306713.04	26S	237612.60	1373231.96
8N	212271.29	1303314.89	27N	237949.13	1373487.86
8S	212181.64	1303363.65	27S	237863.89	1373541.52
9N	215150.02	1306740.24	28N	239094.41	1375909.84
9S	215061.36	1306790.17	28N1	239008.91	1375729.03
10N	217045.15	1312328.60	28N2	239277.84	1375989.54
10S	216959.88	1312388.53	28S	239020.07	1375986.58
11N	223699.98	1317627.94	29N	240656.33	1376588.44
11S	223607.15	1317681.84	29S	240602.99	1376674.30
11S1	223294.23	1317432.67	30N	244775.86	1380070.92
11S2	223667.56	1318077.12	30S	244693.84	1380132.53
12-5B	203972.82	1256520.29	31N	250385.92	1392648.94
12N	224702.86	1324093.17	31S	250285.04	1392668.28
12S	224605.15	1324115.61	32N	250151.82	1398379.13
13N	228531.30	1336576.16	32S	250051.16	1398393.15
13S	228435.70	1336605.48	33N	250568.38	1399646.44
14N	233419.79	1352514.67	33N1	250490.31	1399408.94
14S	233317.27	1352520.23	33N2	250804.79	1399727.87
14S1	233199.98	1352139.80	33S	250488.87	1399724.82
14S2	233251.22	1352916.74	34N	260304.93	1403009.28
15N	232399.43	1358609.70	34S	260302.56	1403105.23
15S	232297.52	1358612.79	35N	262475.29	1402360.70
16N	233186.50	1362024.55	35S	262563.39	1402438.99
16S	233091.50	1362057.63	36N	263024.95	1399136.10
17N	233651.20	1363001.74	36S	263117.06	1399190.89
17S	233546.63	1363040.32	37N	263451.56	1398800.61
18N	234020.44	1364021.91	37S	263489.45	1398898.04
18S	233933.69	1364070.49	38N	264780.90	1398700.17
19N	234067.08	1364082.74	38S	264788.43	1398799.89

NSRS BENCHMARK
BENCHMARK: MORICHES (PID:AA9073)
ELEVATION: 4.86' (NAVD 1988)

LOCAL CONTROL DATA
BENCHMARK: TBM-2-03-L11W
ELEVATION: 2.52' (NAVD 1988)

PROJECT SPECIFIC NOTES:

-THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS THE GENERAL CONDITIONS EXISTING AT THAT TIME.
-THE SOUNDINGS ON THIS MAP MEET EM 1110-2-1003 ACCURACY STANDARDS.
-COORDINATES REFER TO US STATE PLANE COORDINATE SYSTEM NAD 1983, LONG ISLAND LAMBERT - ZONE 3104, US SURVEY FEET.
-SOUNDINGS ON THIS MAP REFER TO THE PLANE OF MEAN LOWER LOW WATER (MLLW) [EPOCH 1983-2001].
-MEAN LOWER LOW WATER IS 0.68-1.89 FEET BELOW NAVD88 AS DETERMINED USING VDATUM (VER. 3.4).
-SOUNDINGS DEPICTED ON THIS MAP HAVE BEEN SORTED TO A 15' INTERVAL USING THE FULL DATA SET.
-CONTOURS ON THIS MAP WERE GENERATED USING THE MAP DATA SET.
-THE DATA DEPICTED ON THIS MAP SHOULD NOT BE USED FOR VOLUME CALCULATION PURPOSES.
-AERIAL IMAGERY PROVIDED BY NY STATE GIS CLEARINGHOUSE 2013
-THE PLANIMETRICS DEPICTED ON THIS MAP ARE FOR ORIENTATION PURPOSES ONLY.
-THIS SURVEY WAS PERFORMED USING REAL TIME KINEMATIC GPS FROM STATION "RTK PATCHOGUE".
-THIS MAP IS CEPD COMPLIANT IN ACCORDANCE WITH ER 1110-2-8160 AND EM 1110-2-6056.

US ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT

GBA
ENGINEERING ★ SURVEYING
GANGAN & BRYANT ASSOCIATES, INC.
LONG ISLAND'S PREMIER SURVEYING FIRM
GREENVILLE CENTER - BUILDING C
445 BROADHOLLOW ROAD, SUITE 120
MELVILLE, NEW YORK 11747
TEL.: (631)423-4948 FAX: (631)595-9218
GBA-LI.COM

DATES OF SURVEY: 24-30 JUNE & 12 JULY 2016

FILE NO.: 233
REQUEST NO.: 4485

SCALE: ONE INCH = 100 FEET

FIELD BOOKS:

APPROVED: DOUGLAS MOORE, FIELD SUPERVISOR
APPROVED: REGINALD SMITH, PROJECT MANAGER
APPROVED: D. CLARKE, CHIEF SURVEYING
APPROVED: J. MRAZ, CHIEF OF BRANCH
DATE: 25 JULY 2016

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK 10278

OPERATIONS DIVISION
SURVEY SECTION
CENAN-OP-S

LONG ISLAND INTRACOASTAL WATERWAY, N.Y.

SHEET LAYOUT

CONDITION SURVEY

VH-101

SHEET 1 OF 55

FILE NO: 233
REQ NO: 4485