

ISSUE DATE:	2-MAY-2019	DATE
SOLICITATION NO.:		MARK
CONTRACT NO.:		DESCRIPTION

SURVEYED BY:	U.S. ARMY CORPS OF ENGINEERS
ED.S.:	DETROIT DISTRICT
DRAWN BY:	477 MICHIGAN AVE
REVIEWED BY:	DETROIT, MI 48226
APPROVED BY:	LAKE MICHIGAN AREA OFFICE
FILE NAME:	307 SOUTH HARBOR DR
ANSID:	new_buffalo_after_2019.dgn
SIZE:	Grand Haven, MI 49417

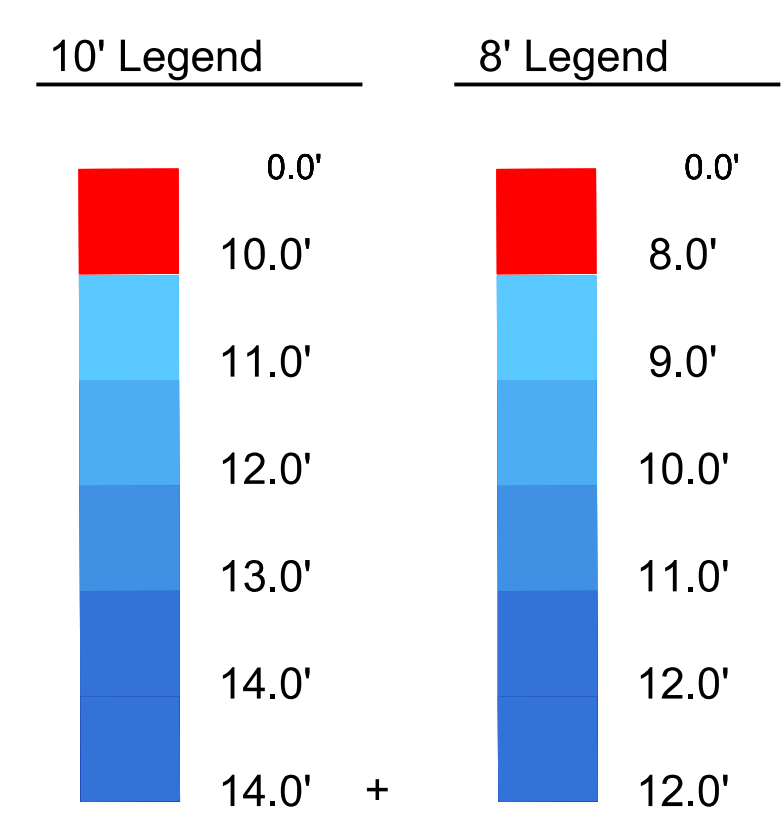
ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. 1985 FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC. HYDRAULIC CORRECTOR OF 0.3 APPLIED

GRID SYSTEM BASED ON LAMBERT PROJECTION, MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (2113) 1983 NORTH AMERICAN DATUM, U.S. FOOT.

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

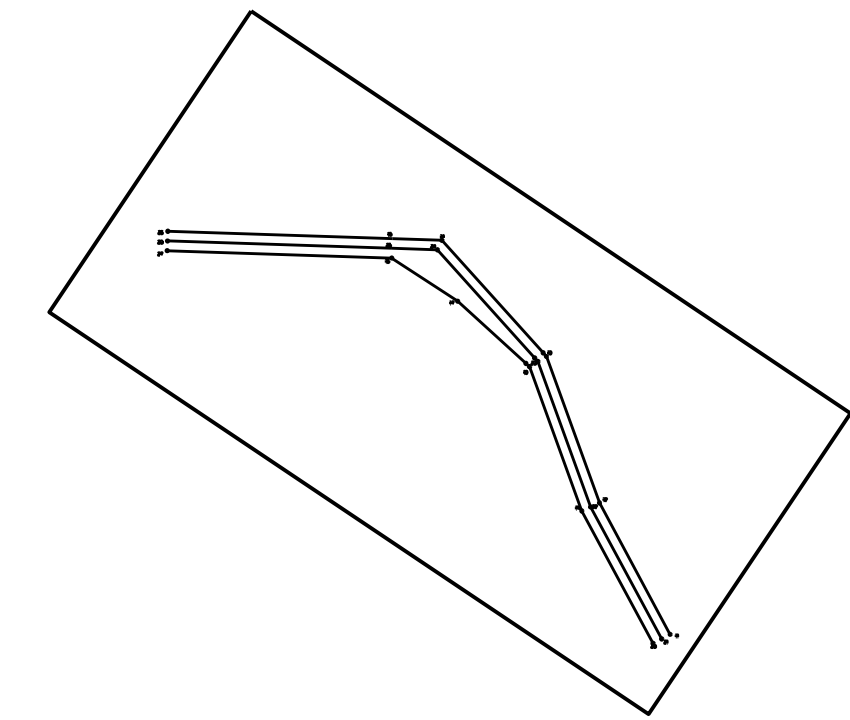
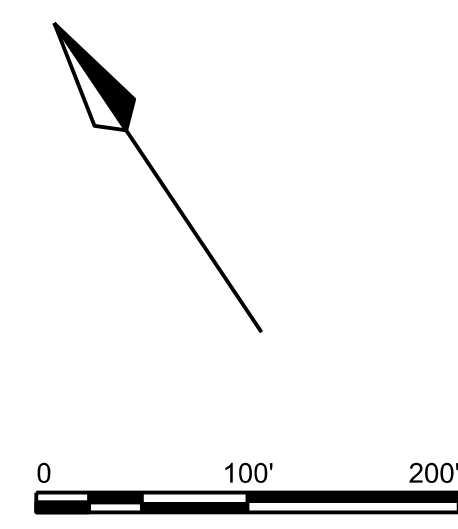
VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL NEAR CROSS SECTION -4+50W IN NEW BUFFALO HARBOR, MI.

SURVEYED ON: 21 MAY 2019
 POSITIONING METHOD: DGPS USING C. G. BEACON CORRECTION
 EQUIPMENT: GPS, TRIMBLE SPS 351 SOUNDER: INNERSPACE 448
 VESSEL: SKIFF



CHANNEL LINE CONTROL POINTS

STATION	NORTH (Y)	EAST (X)
11	117709.43	12474306.29
12	118253.03	12474013.98
13	118859.44	12473794.07
14	119340.36	12473361.61
15	119347.09	12473156.68
16	119267.13	12473154.06
17	119088.50	12473426.69
18	118817.53	12473724.17
19	118220.28	12473940.76
20	117671.55	12474235.83
21	117690.49	12474271.06
22	118236.65	12473977.37
23	118838.49	12473759.12
24	119300.94	12473343.27
25	119307.11	12473155.37
26	119377.62	12472226.99
27	119297.66	12472224.37
28	119337.64	12472225.68



NEW BUFFALO HARBOR, MICHIGAN
 AFTER DREDGING

CONDITION OF CHANNEL
 MAY 2019

SHEET ID
VH101