

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

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

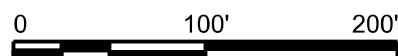
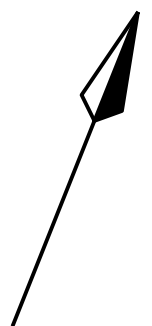
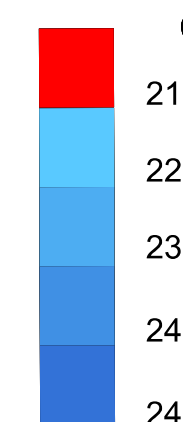
THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS
AND ARE NOT REPRESENTATIVE OF THE FULL DATA SET.

THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN
THE 10X10 AREA CENTERED ON THE TEXT, DERIVED FROM A 1X1
AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE
USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS.

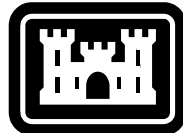
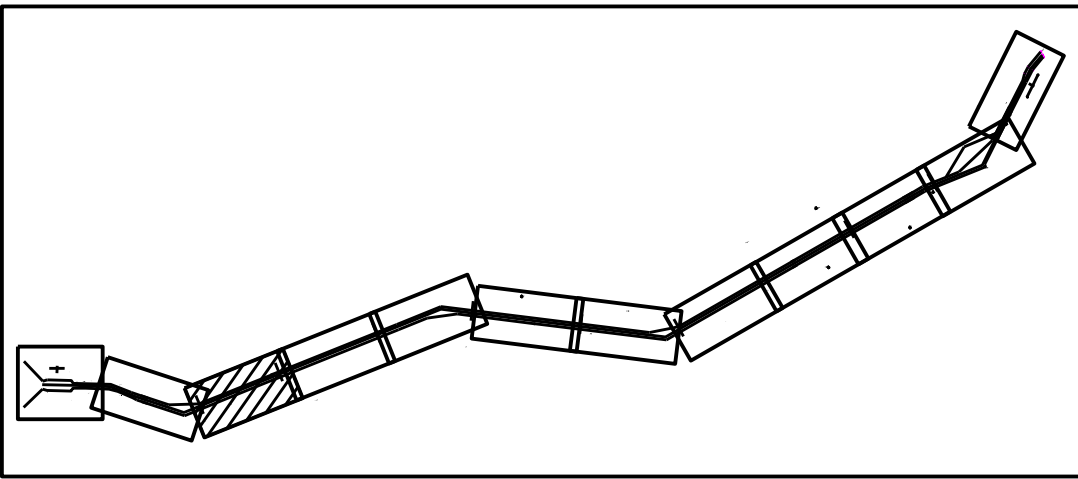
MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SOAL REMOVAL
OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.

VERTICAL WATER LEVEL READINGS WERE TAKEN IN A
FIXED GAUGE MARK ALONG THE SHEET STEEL WALL
CROSS SECTION 17+50E IN HOLLAND HARBOR, MI.

SURVEYED ON: 11 APRIL 2019
POSITIONING METHOD: APPLANIX POS M/V W/DGPS CORRECTIONS
MOTION COMPENSATION: APPLANIX OCEAN MASTER POS M/V
EQUIPMENT: R2 SONIC 2024 MULTIBEAM ECHOSOUNDER
SOFTWARE: HYPACK
VESSEL: LAUNCH 3058



CHANNEL LINE T.P.		
T.P.	EAST X	NORTH Y
J	12,631,280.00	468,835.50



**US Army Corps
of Engineers®**

[illegible]

U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT 477 MICHIGAN AVE DETROIT, MI 48226	SURVEYED BY:	ISSUE DATE:
	DRAWN BY:	E.D.S.
	REVIEWED BY:	11-APRIL-2019
	CONTRACT NO.:	SOLICITATION NO.:
LAKE MICHIGAN AREA OFFICE 307 SOUTH HARBOR DR GRAND HAVEN, MI 48534	APPROVED BY:	DRAWING NUMBER:
	SIZE:	FILE NAME:
	ANSI D	holland 2019.dgn

HOLLAND HARBOR
MICHIGAN

CONDITION OF CHANNEL

SHEET ID

VH103