

NOTES:

1. THE SOUNDINGS INDICATED HEREON ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10 FOOT BY 10 FOOT AREA CENTERED ON EACH TEXT. T. DERIVED FROM A 1 FOOT BY 1 FOOT 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 NOTICES TO NAVIGATION INTERESTS.
2. GRIDS SHOWN ARE BASED ON THE NATIONAL GEODESY SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE (213), LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM, US SURVEY FOOT.
3. ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC.
4. VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAGE MARK ALONG THE SHEET STEEL WALL NEAR CROSS SECTION 9+00E IN SOUTH HAVEN HARBOR, MI.
5. HYDRAULIC CORRECTOR OF 0.3 FEET APPLIED.
6. PROJECT DEPTH = 14.0 FEET
7. POSITIONING: APPLANIX POS/MV
CORRECTIONS: MARINESTAR GNSS G2
SONAR: R2SONIC 2024 MULTIBEAM
SOFTWARE: HYPACK 2018
VESSEL: LAUNCH 3058

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS



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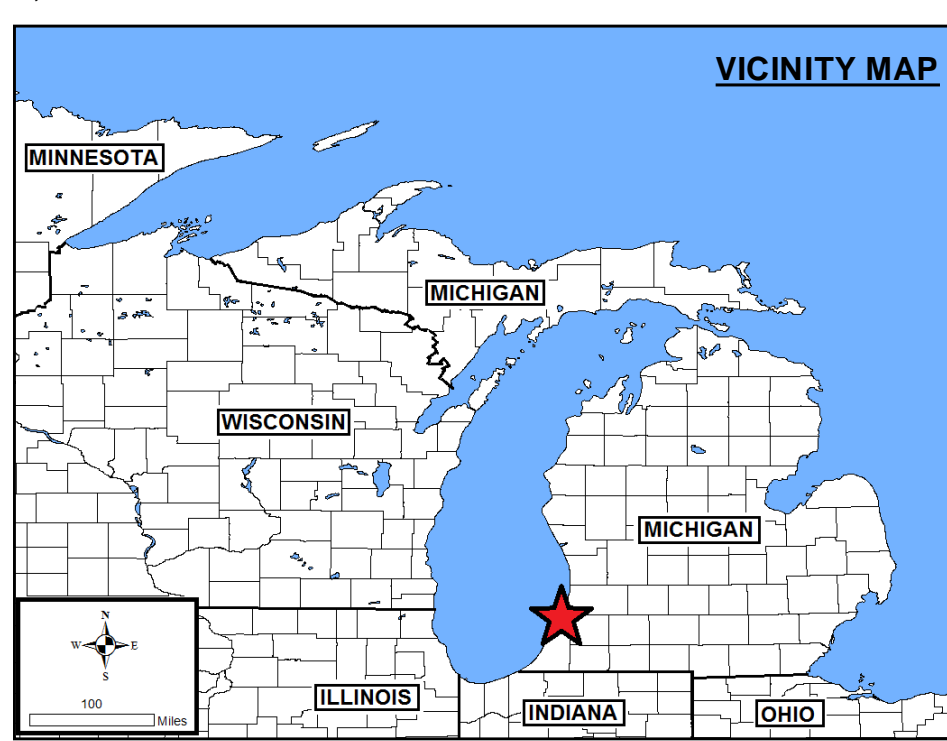
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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT	
Submitted: _____	Surveyed By: _____
Recommended: Chief, Survey Section	Plotted By: _____
Approved: Chief, Technical Services	Checked By: _____




South Haven, MI
South Haven Harbor
SH_01_HVN_20210513_CS
13 May 2021

Sheet
Reference
Number
2 of 2








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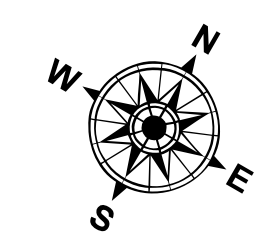


LEGEND

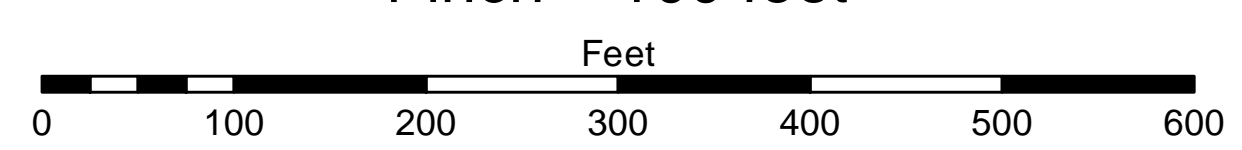
- Cable Submarine
- - Cable Overhead
-  Placement Area
-  Beacon, General
- Contour Lines
-  Channel Limits

SOUNDING LEGEND

	LESS THAN PROJECT DEPTH
	PROJECT DEPTH
	PROJECT DEPTH +1'
	PROJECT DEPTH +2'
	PROJECT DEPTH +3'
	PROJECT DEPTH +4'
	PROJECT DEPTH +5'



1 inch = 100 feet



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SONAR: R2 SONIC 2024 MI, MIBEM
SOFTWARE: HYPACK 2018
VESSEL: LAUNCH 3058

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