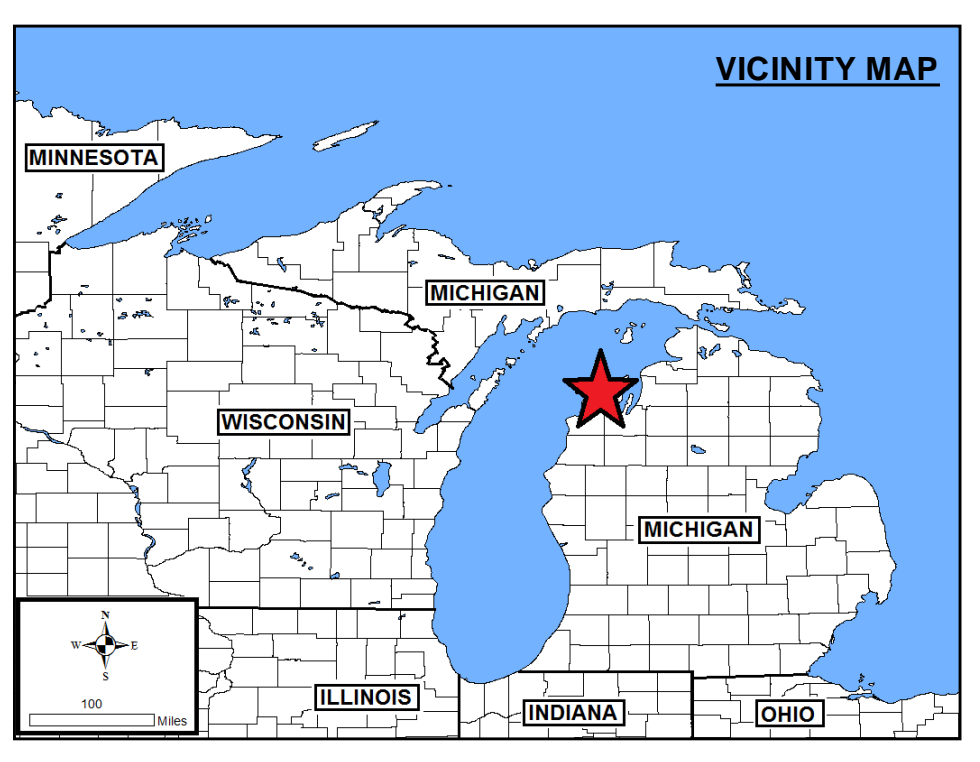
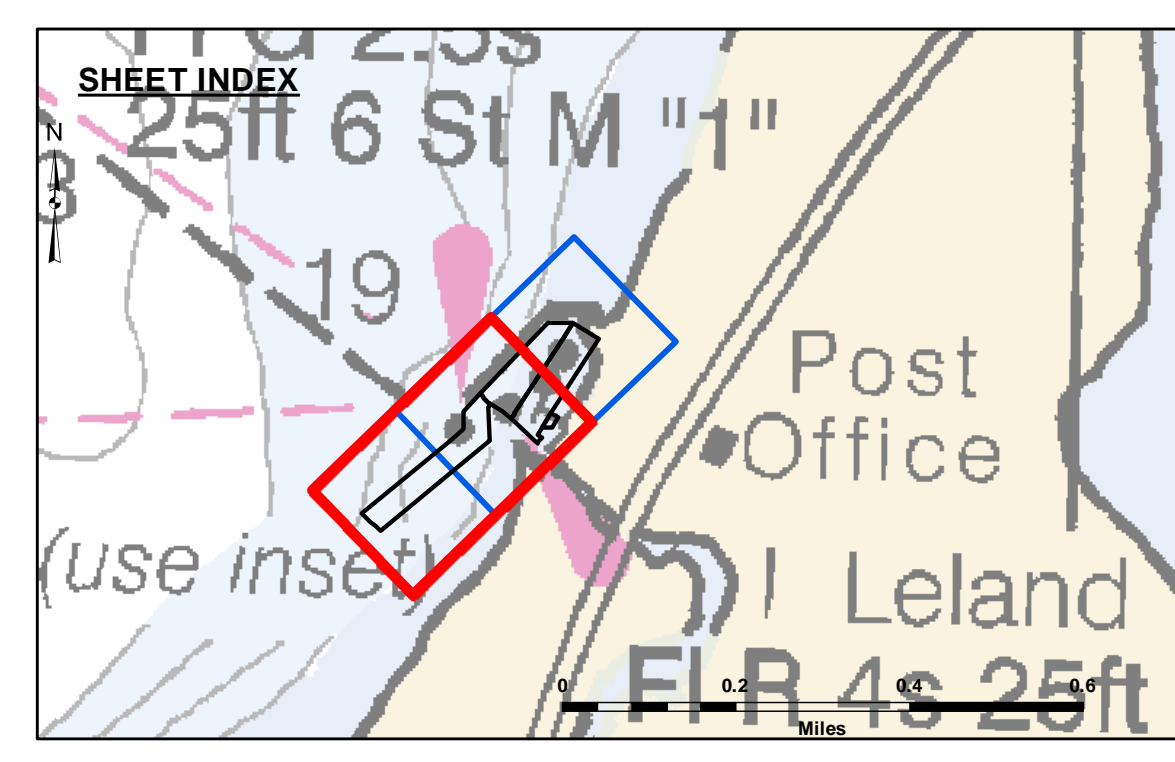




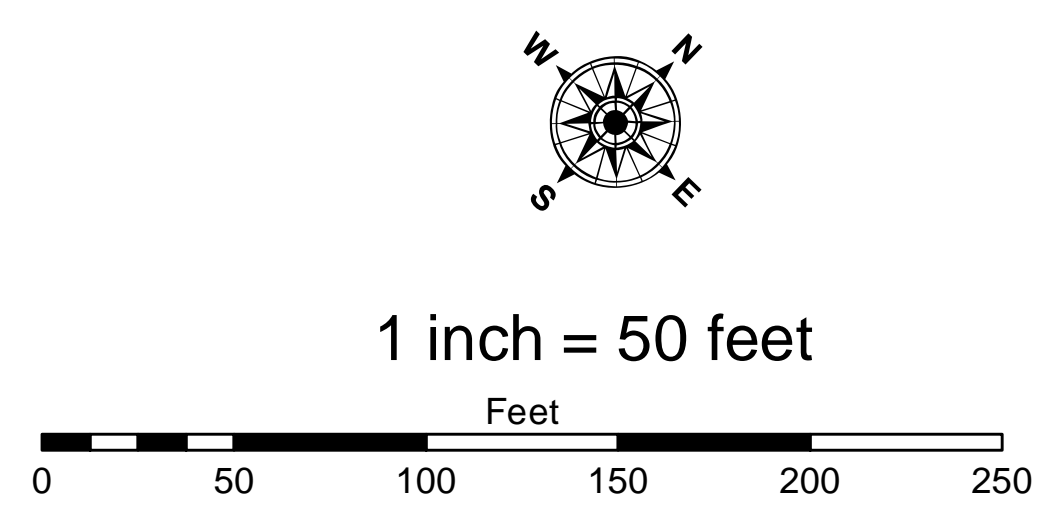
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LEGEND: Cable Submarine (dotted line), Cable Overhead (dashed line), Channel Limits (thick black line), Beacon, General (T-shaped symbol), Contour Lines (thin grey line), Channel Limits (thick black line).

SOUNDING LEGEND: LESS THAN PROJECT DEPTH (red), PROJECT DEPTH (cyan), PROJECT DEPTH +1' (light blue), PROJECT DEPTH +2' (medium blue), PROJECT DEPTH +3' (dark blue), PROJECT DEPTH +4' (navy blue), PROJECT DEPTH +5' (black).

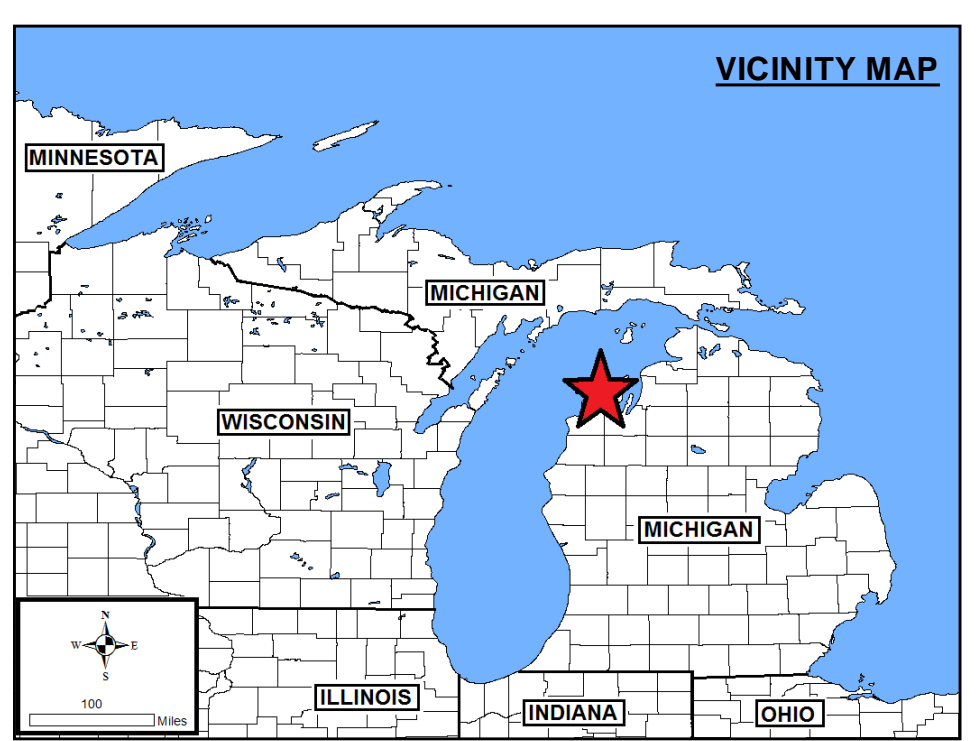
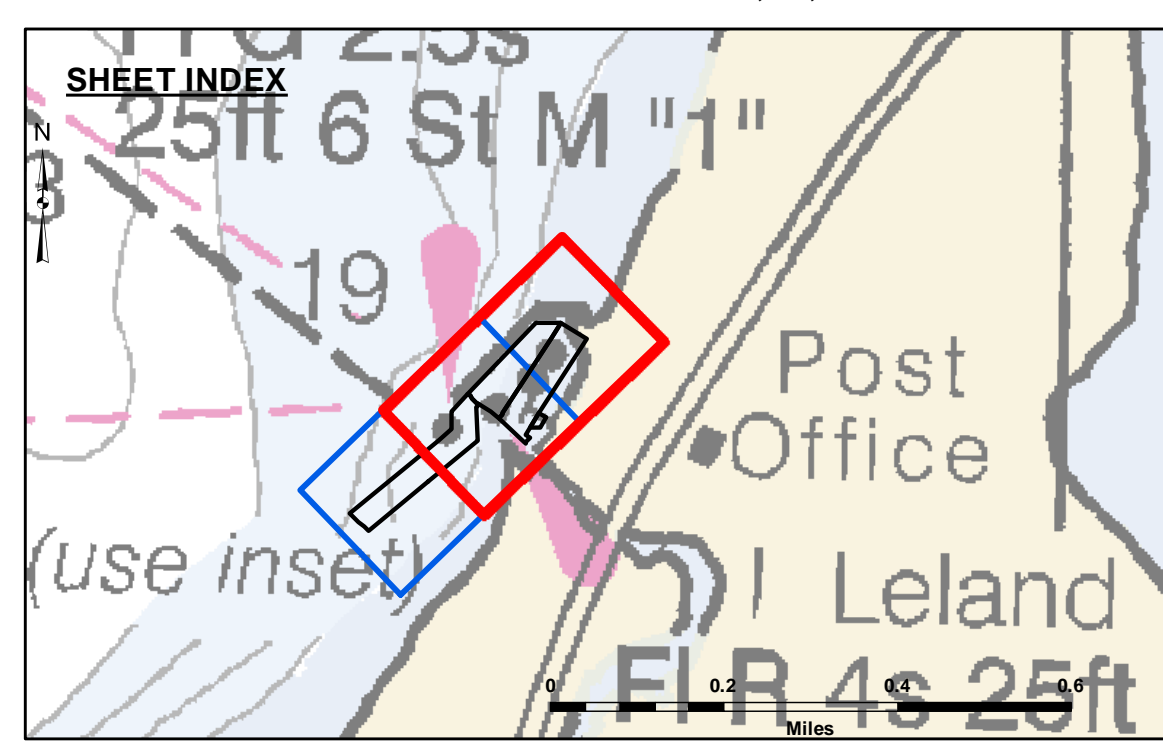
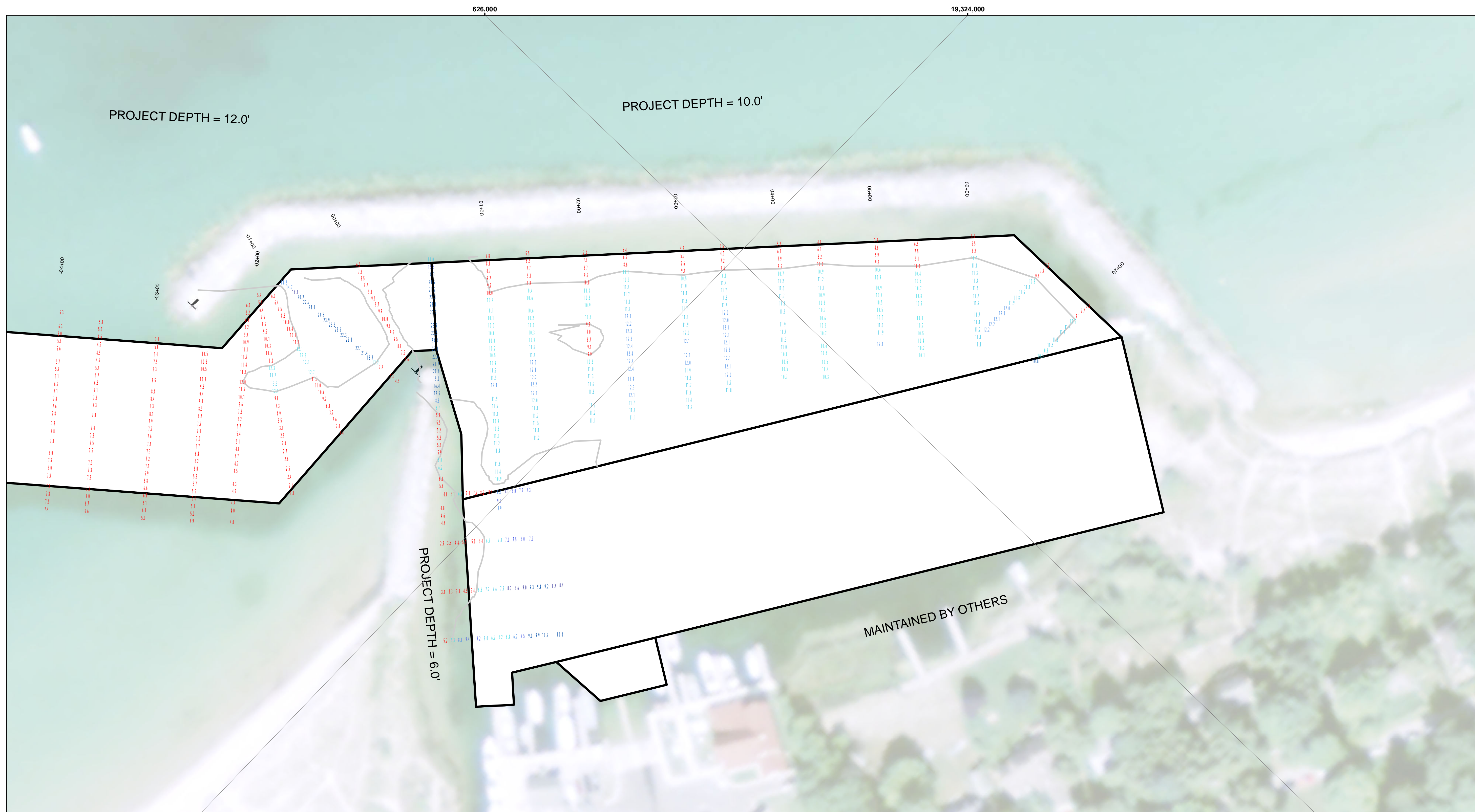


NOTES: 1. THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. 2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). 3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME. 4. POSITIONING METHOD: TRIMBLE DGPS. EQUIPMENT: ODOM CV 100 SINGLEBEAM ECHOSOUNDER. SOFTWARE: HYPACK. VESSEL: LAUNCH 3064. 5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN CENTRAL ZONE (2112). 6. UNLESS OTHERWISE NOTED PROJECT DEPTHS ARE 12.0, 10. 0 & 6.0 FEET BELOW LWD.

Leland Harbor, MI. Leland Harbor. LE\_01\_LND\_20221003\_CS. 03 October 2022.

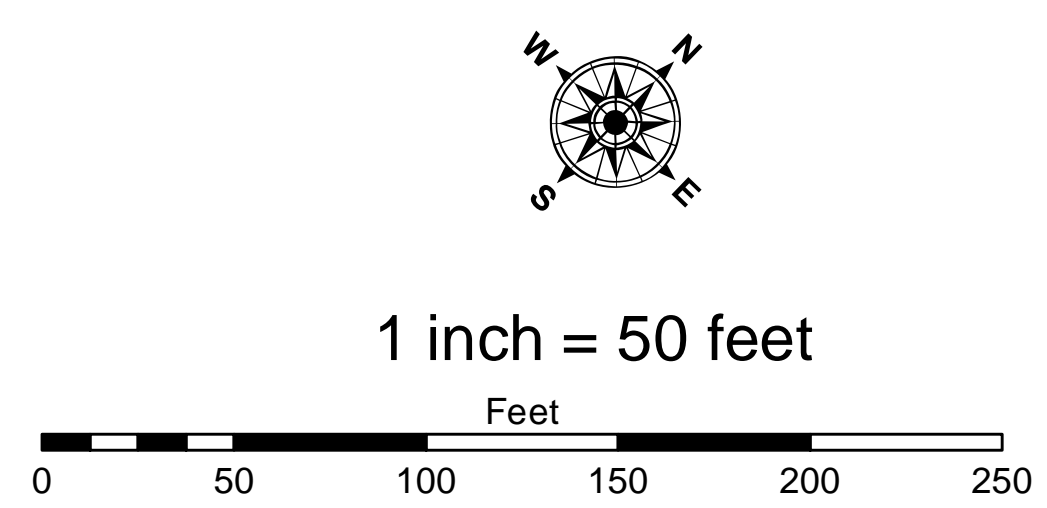
Sheet Reference Number 1 of 2.





- LEGEND**
- ..... Cable Submarine
  - - - Cable Overhead
  - ▭ Channel Limits
  - ⊥ 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'



**NOTES:**

1. THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET.
2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM (LWD) ZERO IS 577.5 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM A GAGE MARK ALONG THE SHEET STEEL WALL AT THE HARBOR BOAT RAMP IN LELAND, HARBOR, MI.
3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.
4. POSITIONING METHOD: TRIMBLE DGPS  
EQUIPMENT: ODOM CV 100 SINGLEBEAM ECHOSOUNDER  
SOFTWARE: HYPACK  
VESSEL: LAUNCH 3064
5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN CENTRAL ZONE (2112). NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET. THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET.
6. UNLESS OTHERWISE NOTED PROJECT DEPTHS ARE 12.0, 10. 0 & 6.0 FEET BELOW LWD

2012 AERIAL PHOTOGRAPHY DATA SOURCE: NAIP  
\*\* SHOALEST SOUNDING PER QUARTER PER REACH.



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

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03 October 2022

Sheet Reference Number  
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