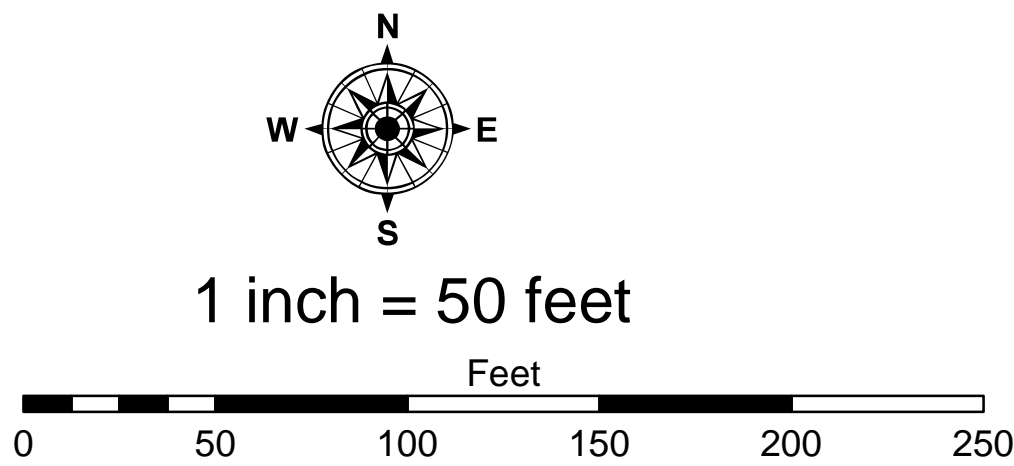


**LEGEND**

- ..... Cable Submarine
- - - Cable Overhead
- ⊥ Beacon, General
- Placement Areas
- 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.
  - 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.HORIZONTAL POSITIONING IS DETERMINED BY APPLANIX POS MV4 W/RS-RTK OR MARINESTAR G2+.
  - 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.
  - 6.UNLESS OTHERWISE NOTED PROJECT DEPTHS ARE 10.0 & 12.0 FEET BELOW LWD
  7. VERTICAL WATER LEVEL READINGS WERE TAKEN FROM AN AVERAGE TIDE INFORMATION FOR NOAA GAGES ESSEXVILLE (#9075035) AND ALPENA (#9075065)
  - 2012 AERIAL PHOTOGRAPHY DATA SOURCE: NAIP



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

Tawas Bay Harbor, MI  
Tawas Bay Harbor  
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