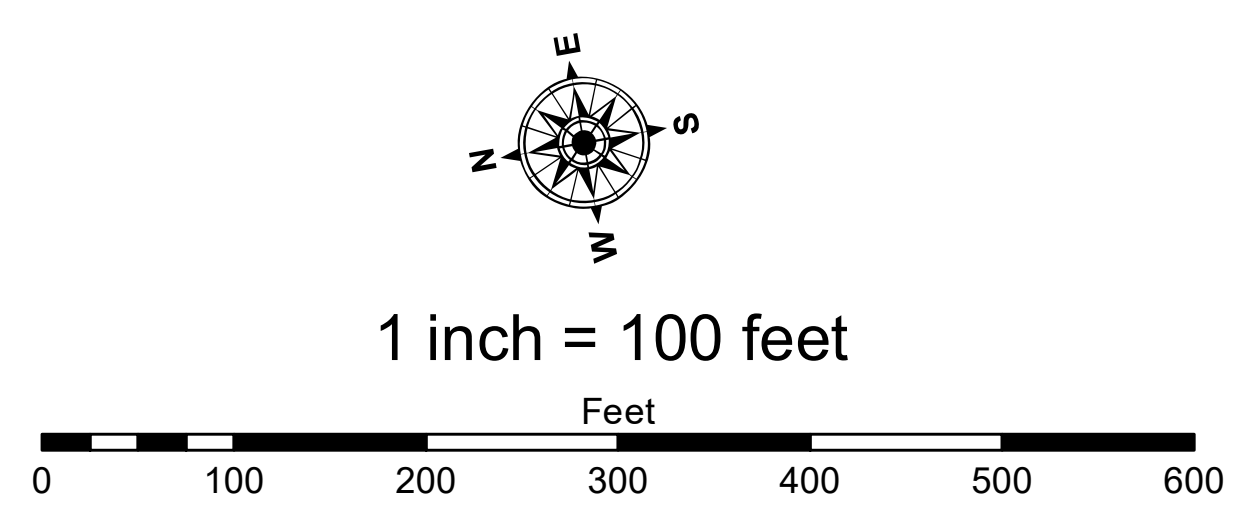


- LEGEND**
- Cable Submarine
 - - - Cable Overhead
 - Placement Area
 - ⊥ Beacon, General
 - Contour Lines
 - ▭ Channel Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
 - PROJECT DEPTH
 - PROJECT DEPTH +1'
 - PROJECT DEPTH +2'
 - PROJECT DEPTH +3'
 - PROJECT DEPTH +4'
 - PROJECT DEPTH +5'



- NOTES:**
- 1) THE CHARTED SOUNDINGS REPRESENT THE MINIMUM DEPTH MEASURED AT THE TIME OF THE SURVEY WITHIN THE 10' X 10' AREA CENTERED ON THE TEXT, DERIVED FROM A 1/2" X 1/2" AVERAGE DATUM. THIS CHART SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SOIL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.
 - 2) ALL SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM ELEVATION 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) VALUES. DEPTHS ARE MEASURED USING AN RSONIC 2024 MULTIBeam SONAR.
 - 3) HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) CORRECTIONS FROM A BASE STATION LOCATED AT US ARMY CORPS OF ENGINEERS (USACE) CONTROL POINT 300 "AGATE BAY ARGO" LOCATED APPROXIMATELY 250 FEET SOUTHEAST OF THE LIGHTHOUSE, TWO HARBORS, MN. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POSIMV VER. 4.0.
 - 4) THE GRID COORDINATE SYSTEM IS MINNESOTA STATE PLANE, NORTH ZONE (2201), NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.
 - 5) THE PROJECT DEPTHS FOR THIS AREA ARE 28.0' AND 30.0'.
 - 6) 2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS



DISCLAIMER: The United States Government (USACE) does not warrant the accuracy or completeness of the data collected or the results of the engineering activity and indicates the general engineering conditions of the data for other than its intended purpose. The user is responsible for the accuracy of the data for other than its intended purpose. The user is responsible for the accuracy of the data for other than its intended purpose.

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

Surveyed By: _____
Plotted By: _____
Checked By: _____

Submitted: _____
Recommended: _____
Approved: _____

Chief, Survey Section
Chief, Technical Services

Two Harbors, MN
Two Harbors
TH_01_TWO_20200824_CS
24 August 2020

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