



**US Army Corps  
of Engineers**

DETROIT DISTRICT  
ATTN: CELRE-DE  
477 MICHIGAN AVENUE  
DETROIT MI 48226-2575  
[HTTP://WWW.LRE.USACE.ARMY.MIL/](http://www.lre.usace.army.mil/)

**NOTICE TO NAVIGATION INTERESTS**

**DATE:** 05/03/2022  
**POC:** Elizabeth Wilkinson  
(616) 240-7989

**NOTICE NUMBER:** 19948  
**LOCAL NUMBER:** L22-07  
**WATERWAY:** HOLLAND HARBOR

**EFFECTIVE:** 05/02/2022 15:58 thru 08/31/2022 23:59 EDT

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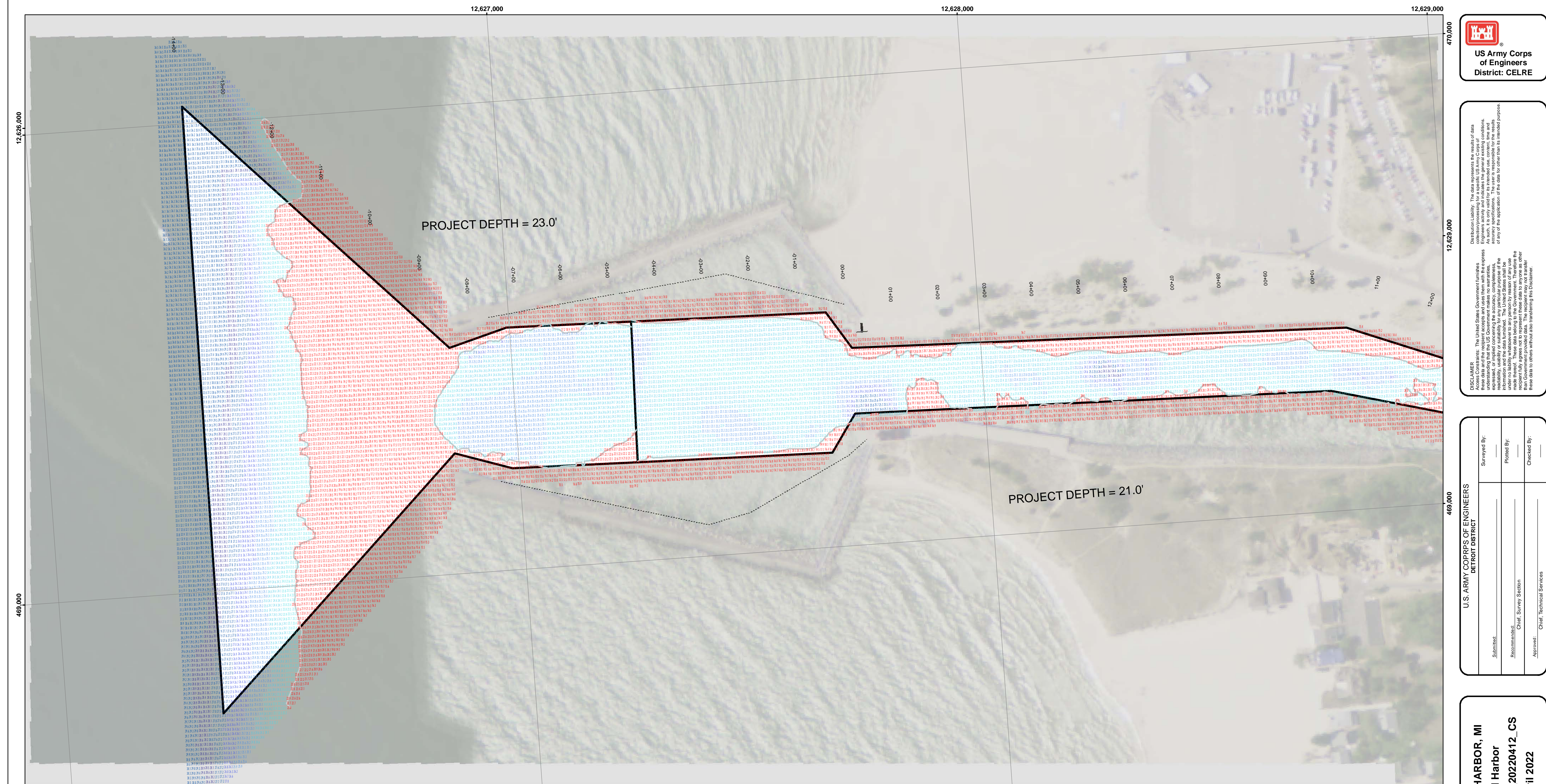
**REPORTED SHOALING**  
**HOLLAND HARBOR, MI**

1. Recent project condition surveys at Holland Harbor, MI, indicate shoaling in the navigation channel.
2. Shoaling is present at the entrance of the channel throughout project stationing -08+00 to -12+00 with depths as shallow as 15.0 feet below the International Great Lakes Datum of 1985 (IGLD85), Low Water Datum (LWD) in the center of the channel. Project depth for this reach of navigation channel is authorized to 23.0' below IGLD85, LWD.
3. The most recent project condition survey is attached to this notice and can be referenced at [https://lre-ops.usace.army.mil/OandM/mappdf/HO\\_01\\_LND\\_2022.pdf](https://lre-ops.usace.army.mil/OandM/mappdf/HO_01_LND_2022.pdf)
4. Questions regarding this notice may be directed to the Grand Haven Resident Engineer, Ms. Elizabeth Wilkinson at (616) 240-7989. Our internet address is: <http://www.lre.usace.army.mil/Missions/Operations/>

//signed//

CYNTHIA A. JAREMA  
Chief, Operations & Maintenance  
USACE-Detroit





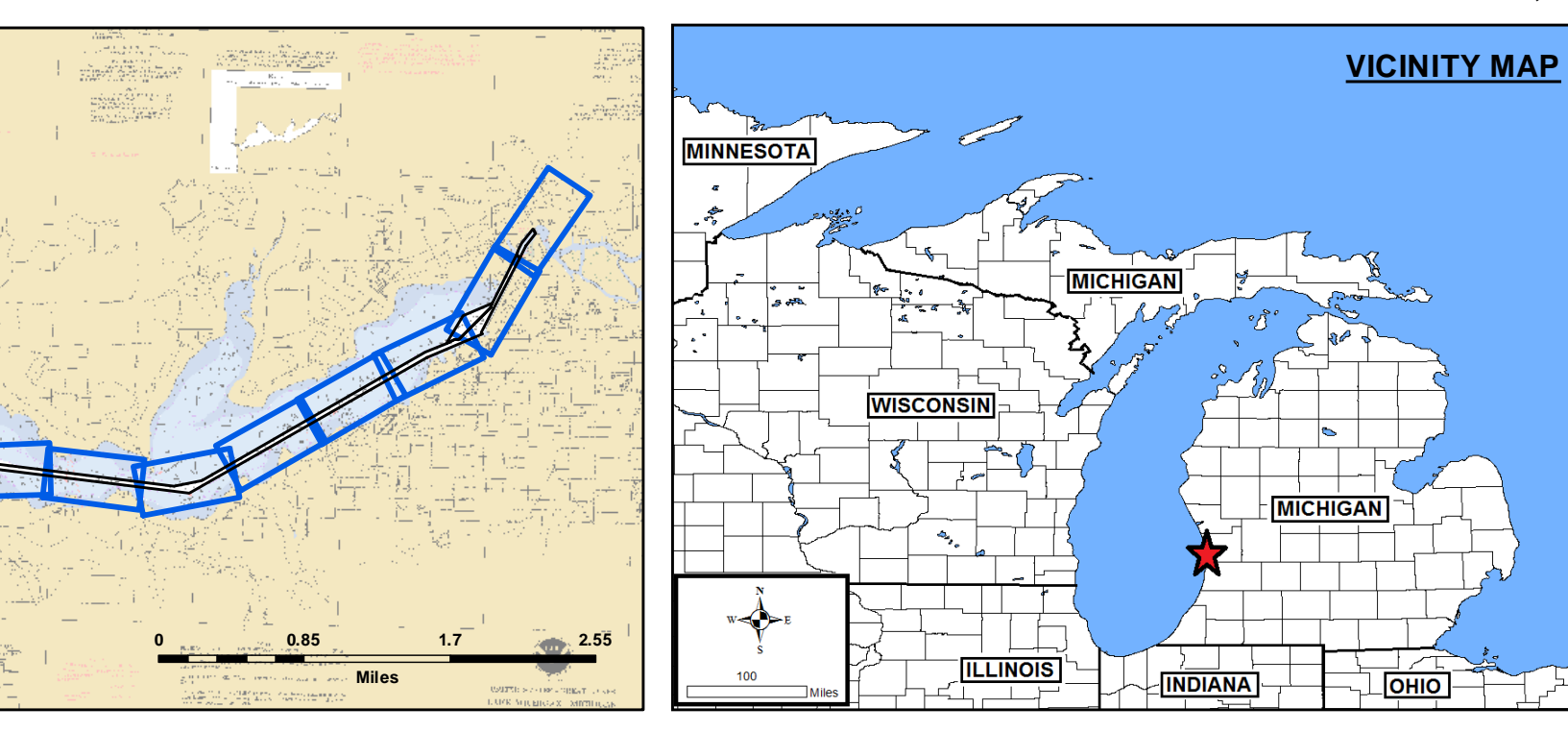
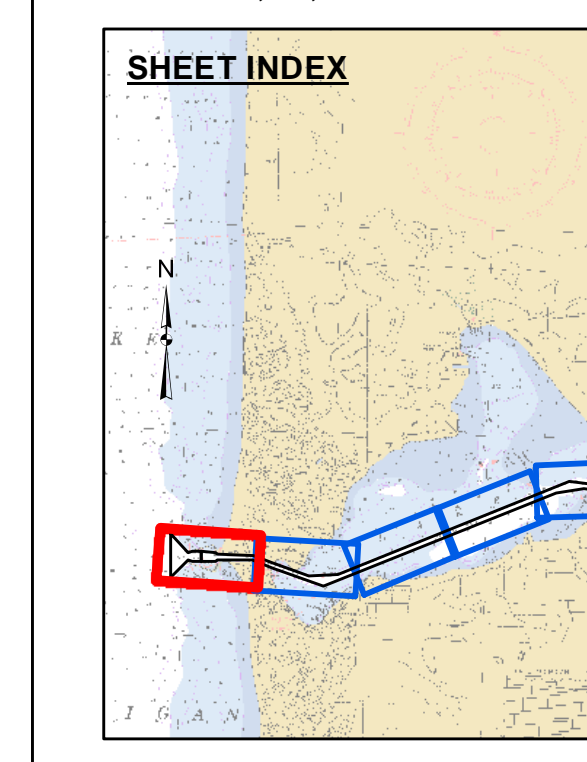
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**U.S. ARMY CORPS OF ENGINEERS  
DETROIT DISTRICT**

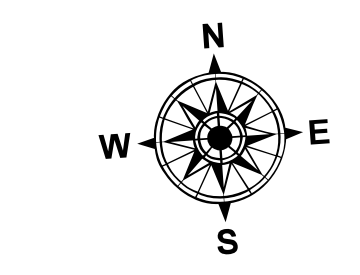
Submitted: \_\_\_\_\_  
 Reviewed/Checked: Chief, Survey Station  
 Approved: Chief, Technical Services

Surveyed By: \_\_\_\_\_  
 Plotted By: \_\_\_\_\_  
 Checked By: \_\_\_\_\_

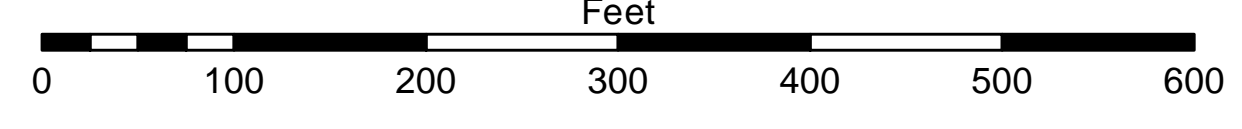


- LEGEND**
- Cable Submarine
  - - - Cable Overhead
  - ▭ Placement Area
  - T Beacon, General
  - Contour Lines
  - ▭ Channel Limits

- 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



**NOTES:**

- THE SOUNDINGS INDICATED HEREON ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE FOOT BY 10 FOOT AREA CENTERED ON THE TEXT. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUMING COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE-SLIP REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.
- GRIDS SHOWN ARE BASED ON THE NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE (2113), LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM, US SURVEY FOOT.
- ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC.
- VERTICAL WATER LEVEL READINGS WERE TAKEN FROM THE NOAA GAGE HOUSE LOCATED ON THE NORTH SIDE OF THE CHANNEL NEAR CROSS SECTION +04E IN HOLLAND, MI.
- PROJECT DEPTH = 23.0-21.0 FEET
- POSITIONING: APPLANIX POS MV  
 CORRECTIONS: OMNISTAR GNSS G2  
 SONAR: RESONIC 2024 MULTIBEAM  
 SOFTWARE: HYDRACK 2020  
 VESSEL: LAUNCH 3058

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS

**HOLLAND HARBOR, MI**  
 Holland Harbor  
 HO\_01\_LND\_20220412\_CS  
 12 April 2022

**Sheet Reference Number**  
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