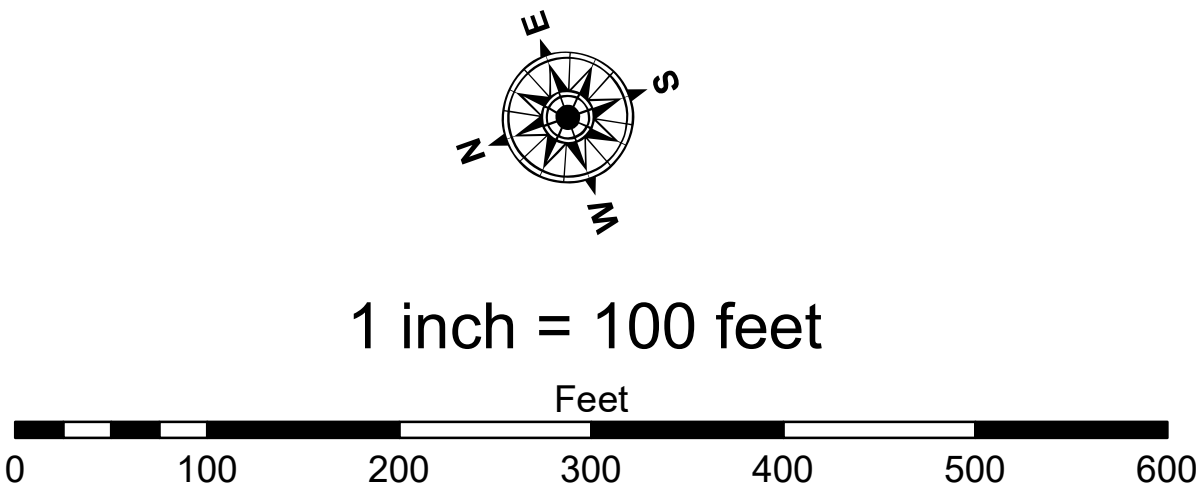


**LEGEND**

- ..... 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:** THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

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. 1985 FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC.

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAGE MARK ALONG THE SHEET STEEL WALL IN BY CROSS SECTION 8+00E IN ST. JOSEPH HARBOR, MI.

PROJECT DEPTHS FOR THIS HARBOR RANGE FROM 23.0' TO 18.0'

POSITIONING METHOD: MARINESTAR GNSS G2  
MOTION COMPENSATION: APPLANIX OCEAN MASTER POS M/V  
EQUIPMENT: ODOM CV SINGLE BEAM ECHOSOUNDER  
SOFTWARE: HYPACK 2021  
VESSEL: LAUNCH 3058

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS

U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT			
Submitted:	_____	Surveyed By:	_____
Recommended:	_____	Plotted By:	_____
Approved:	_____	Checked By:	_____

**ST JOSEPH HARBOR, MI**

**St Joseph Harbor**

**ST\_01\_JOE\_20221215\_AD**

**15 December 2022**

**Sheet**

**Reference**

**Number**

**1 of 4**



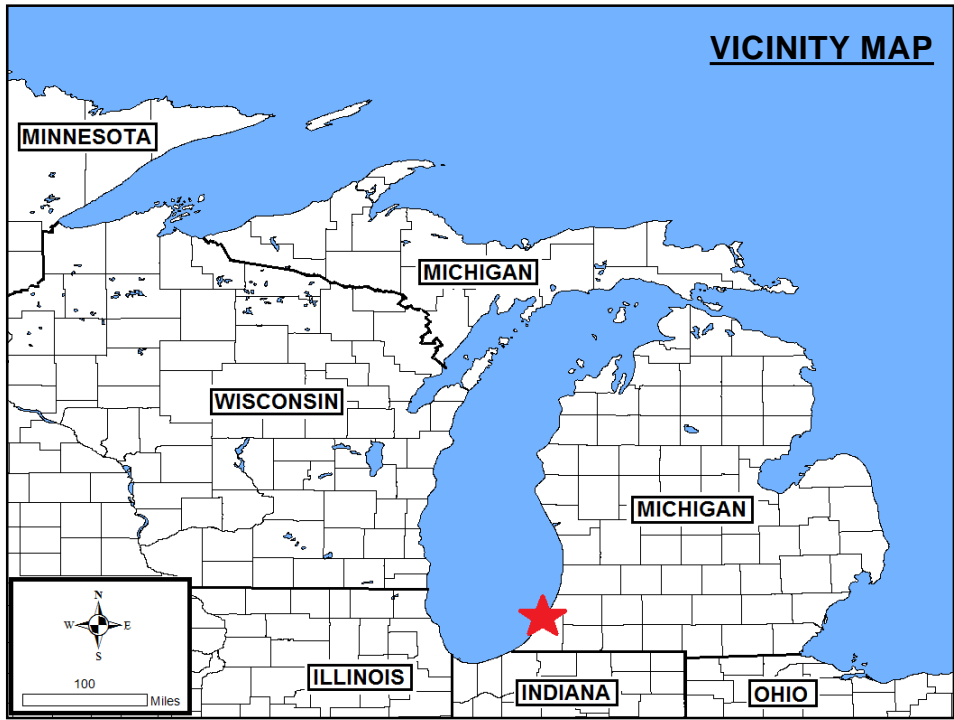
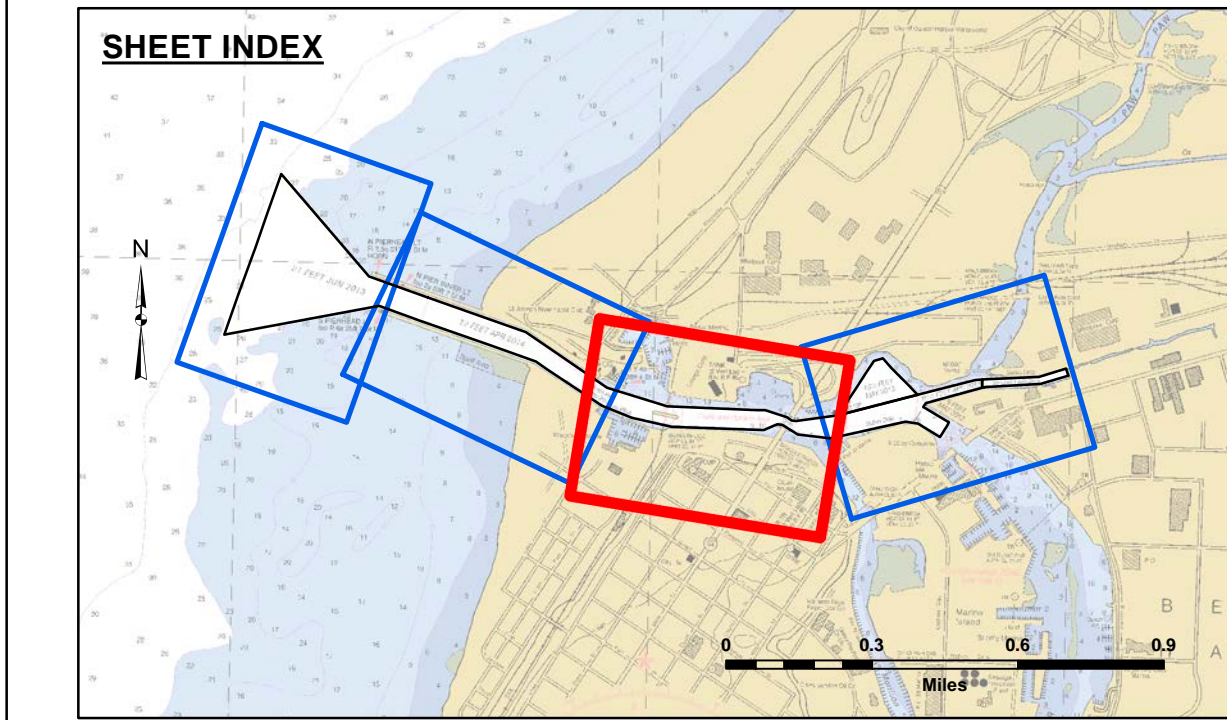
**US Army Corps  
of Engineers**

**District: CELRE**

DISCLAIMER: The data represented on this map represents the results of data collection and processing for a specific project. The data is not intended for use in any other project. The user is responsible for the results of any application of the data for other than its intended purpose. The data is not intended for use in any other project. The user is responsible for the results of any application of the data for other than its intended purpose.

DISCLAIMER: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not intended for use in any other project. The data are not intended for use in any other project. The user is responsible for the results of any application of the data for other than its intended purpose. The data is not intended for use in any other project. The user is responsible for the results of any application of the data for other than its intended purpose.





**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

Feet

0 100 200 300 400 500 600

**NOTES:** THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

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2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS

**US Army Corps of Engineers**  
District: CELRE

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

**ST JOSEPH HARBOR, MI**

**St Joseph Harbor**

**ST\_01\_JOE\_20221215\_AD**

**15 December 2022**

**Sheet Reference Number**

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