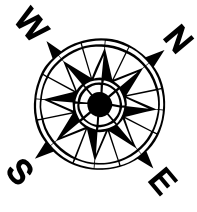
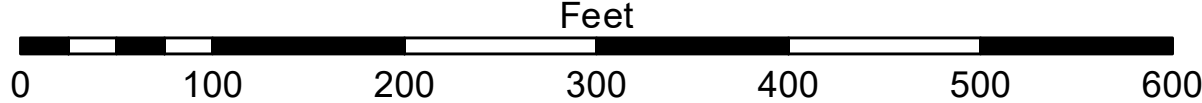


- LEGEND**
- ..... Cable Submarine
  - - Cable Overhead
  - Placement Area
  - ┆ Beacon, General
  - Contour Lines
  - ▭ Channel Limits

- 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



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MOTION COMPENSATION: APPLANIX POS-MV4  
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)  
SOFTWARE: HYPACK



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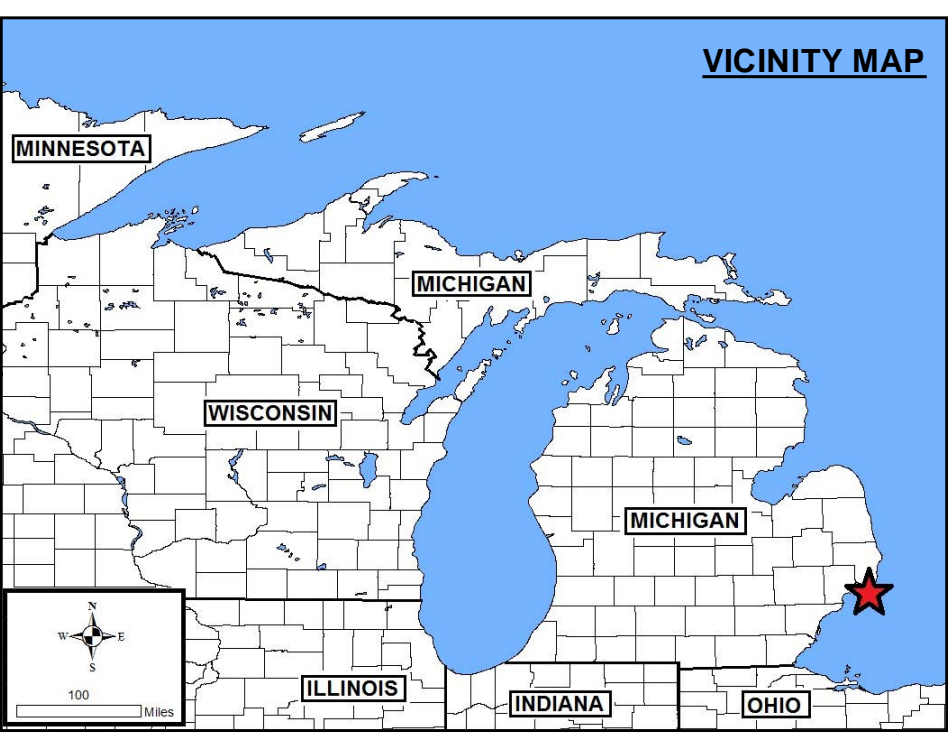
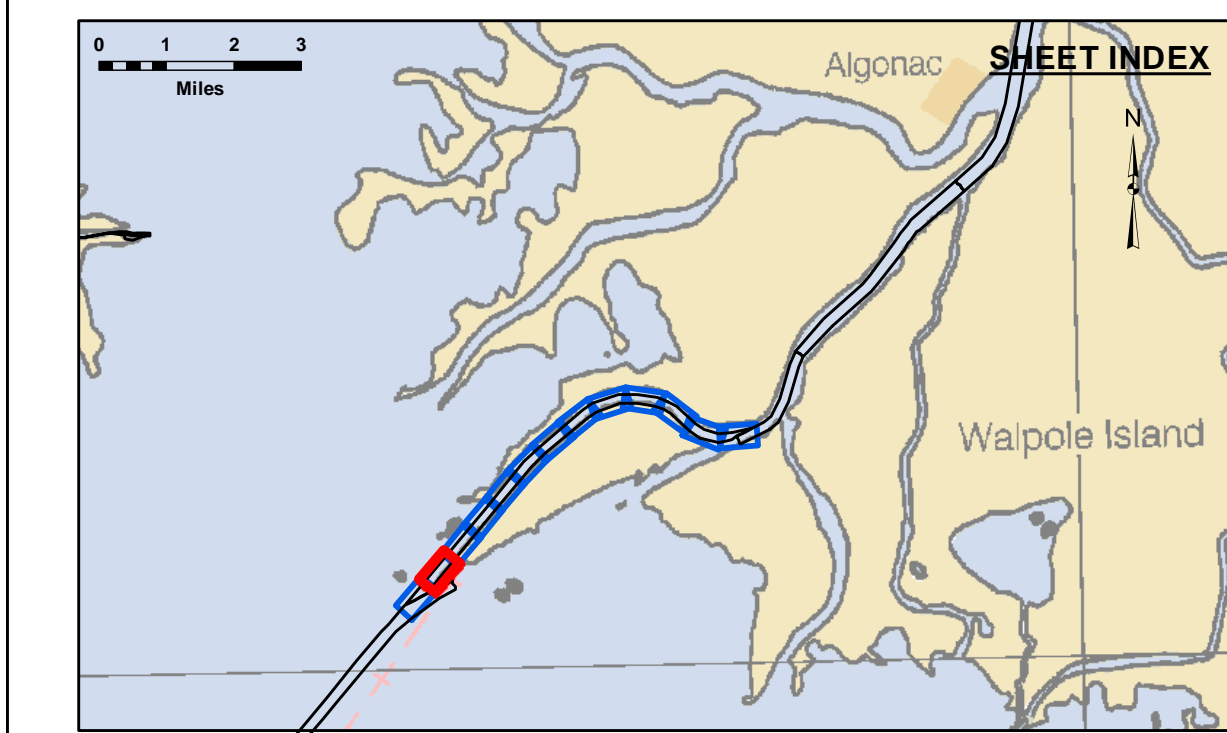
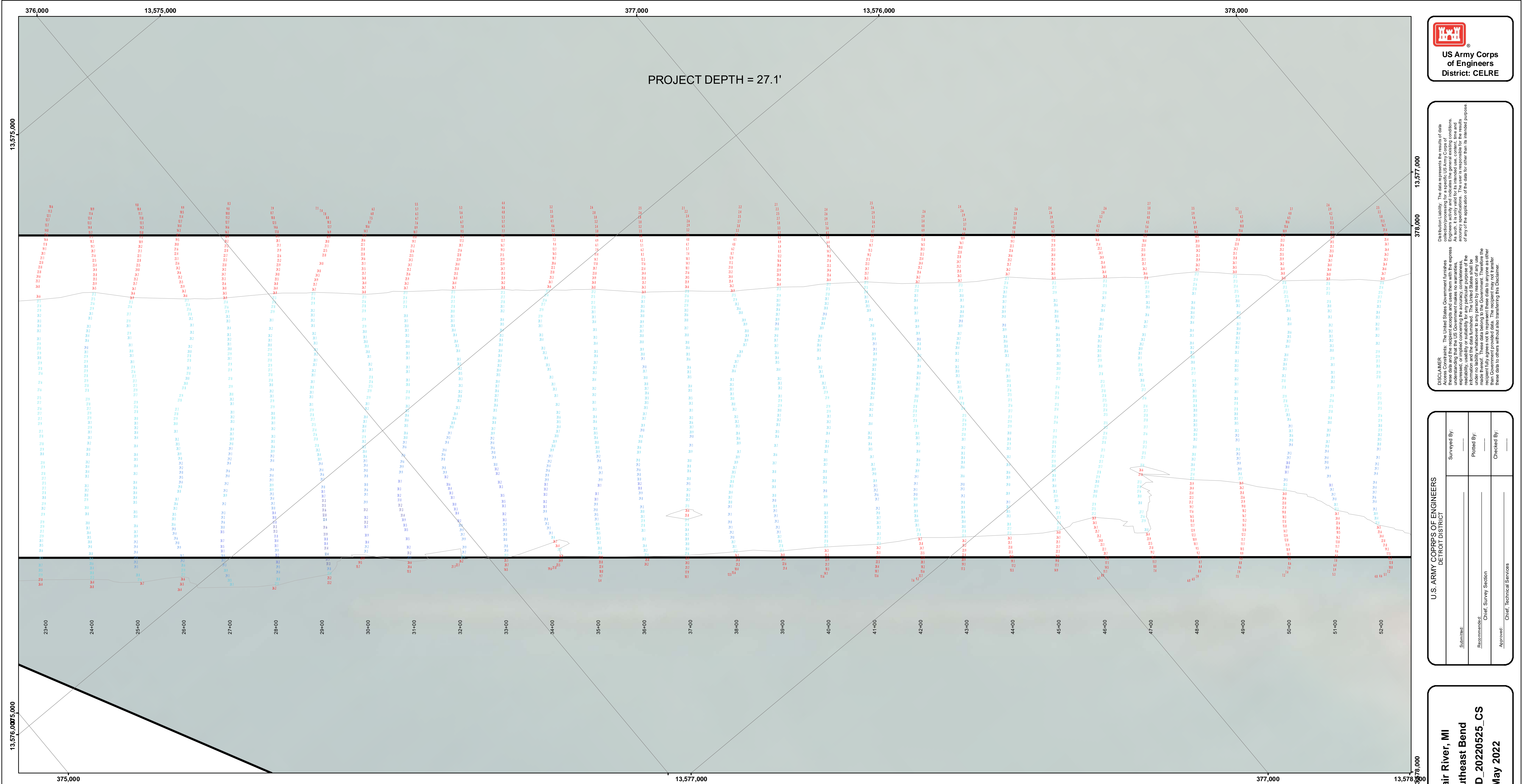
Submitted:	Surveyed By:
Recommended:	Plotted By:
Approved:	Checked By:

U.S. ARMY CORPS OF ENGINEERS  
DETROIT DISTRICT

St. Clair River, MI  
Old Southeast Bend  
SE\_01\_BND\_20220525\_CS  
25 May 2022

Sheet  
Reference  
Number  
1 of 13



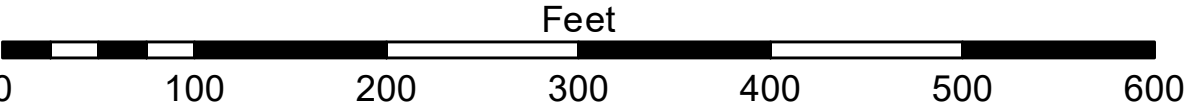


- LEGEND**
- ..... Cable Submarine
  - - Cable Overhead
  - Placement Area
  - Beacon, General
  - Contour Lines
  - Channel Limits

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- LESS THAN PROJECT DEPTH
  - PROJECT DEPTH
  - PROJECT DEPTH +1'
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SOFTWARE: HYPACK

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

St. Clair River, MI  
Old Southeast Bend  
SE\_01\_BND\_20220525\_CS  
25 May 2022

**Sheet Reference Number**  
**2 of 13**

Revision Number:  
4.2-202/004-20



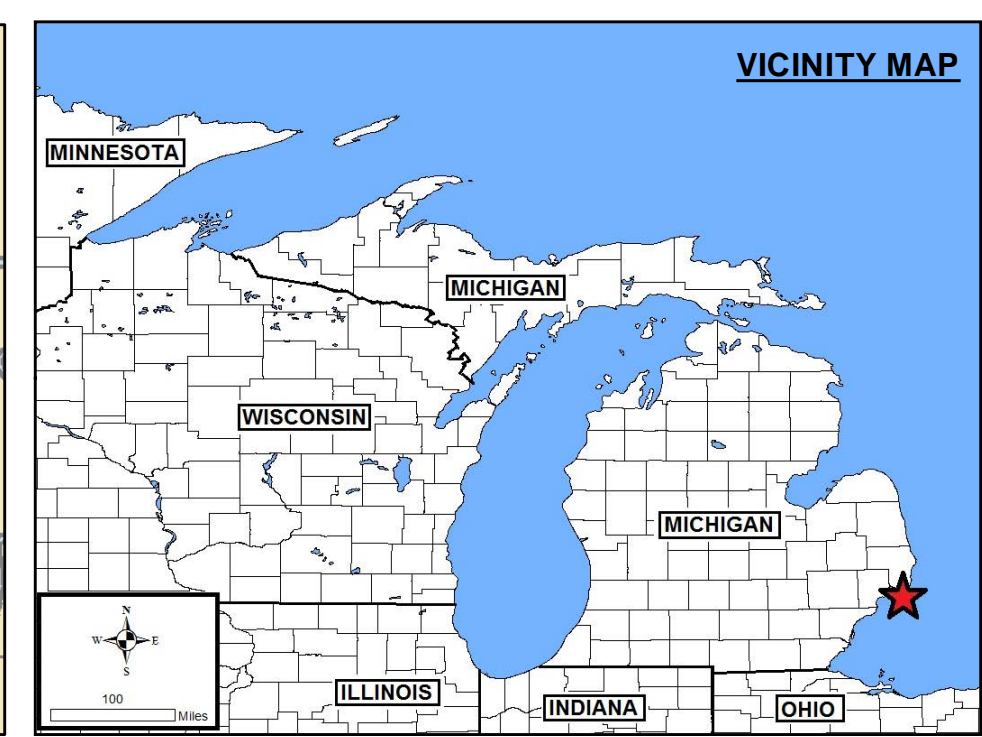
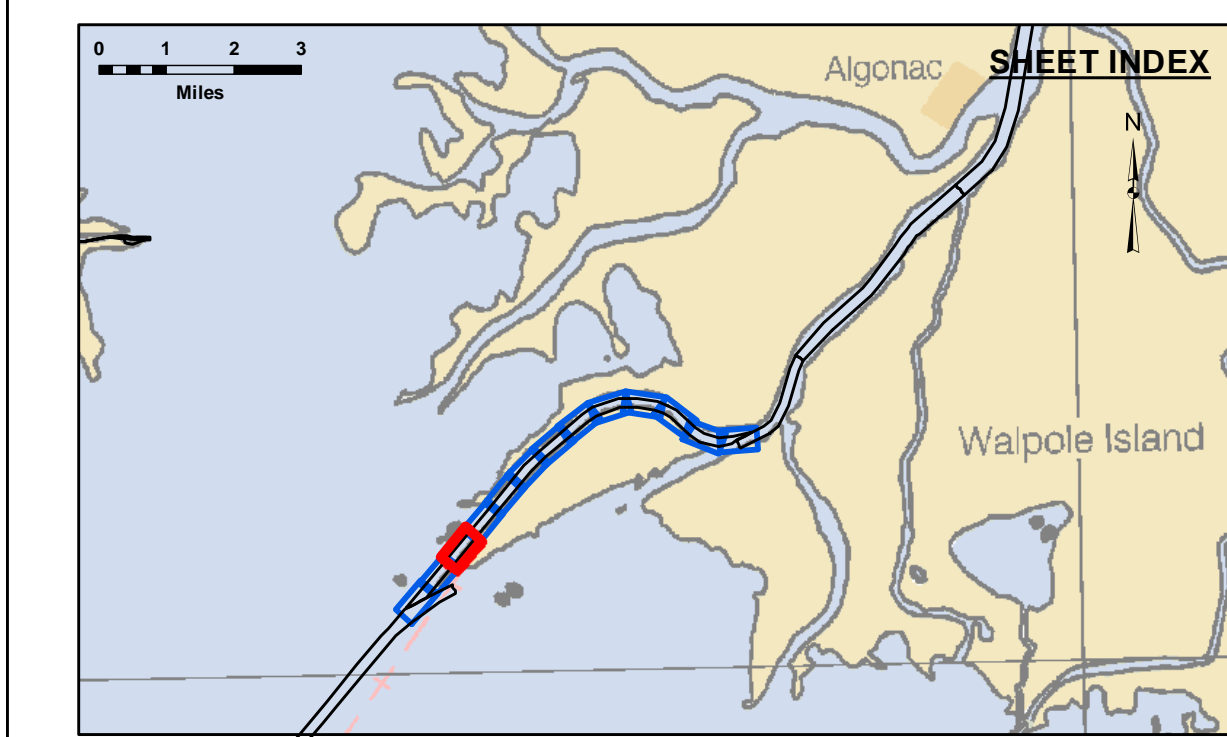
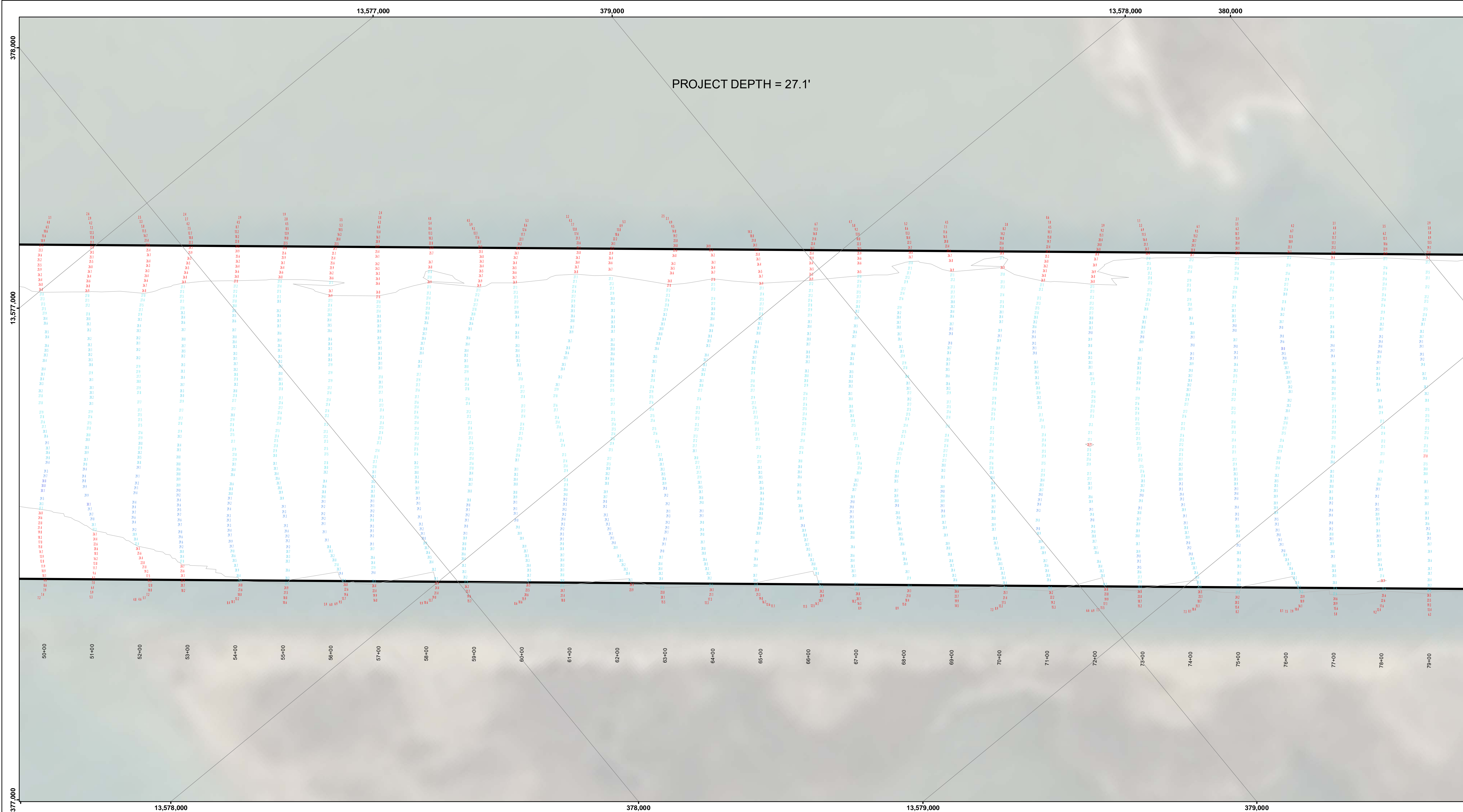
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Submitted:	Surveyed By:
Recommended:	Plotted By:
Approved:	Checked By:

Chief, Survey Section  
Chief, Technical Services



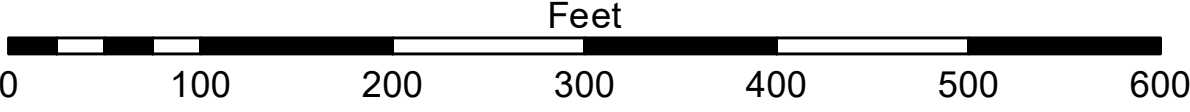


- LEGEND**
- ..... Cable Submarine
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  - Placement Area
  - ⊥ Beacon, General
  - Contour Lines
  - ▭ Channel Limits

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SOFTWARE: HYPACK



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

Submitted: \_\_\_\_\_

Recommended: \_\_\_\_\_

Approved: \_\_\_\_\_

Surveyed By: \_\_\_\_\_

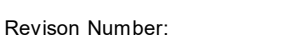
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Checked By: \_\_\_\_\_

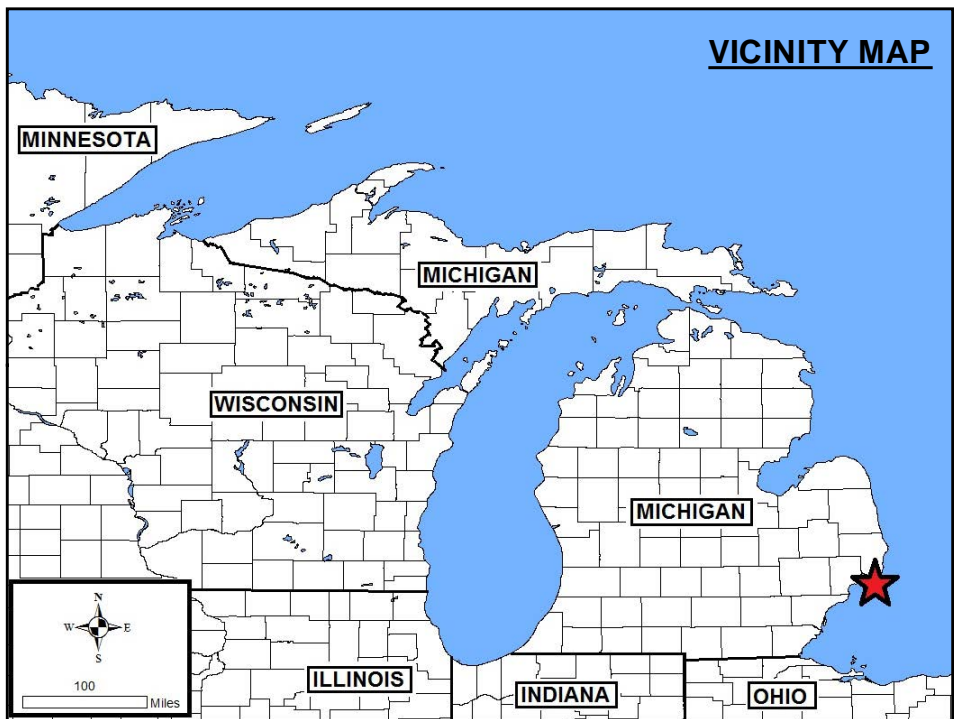
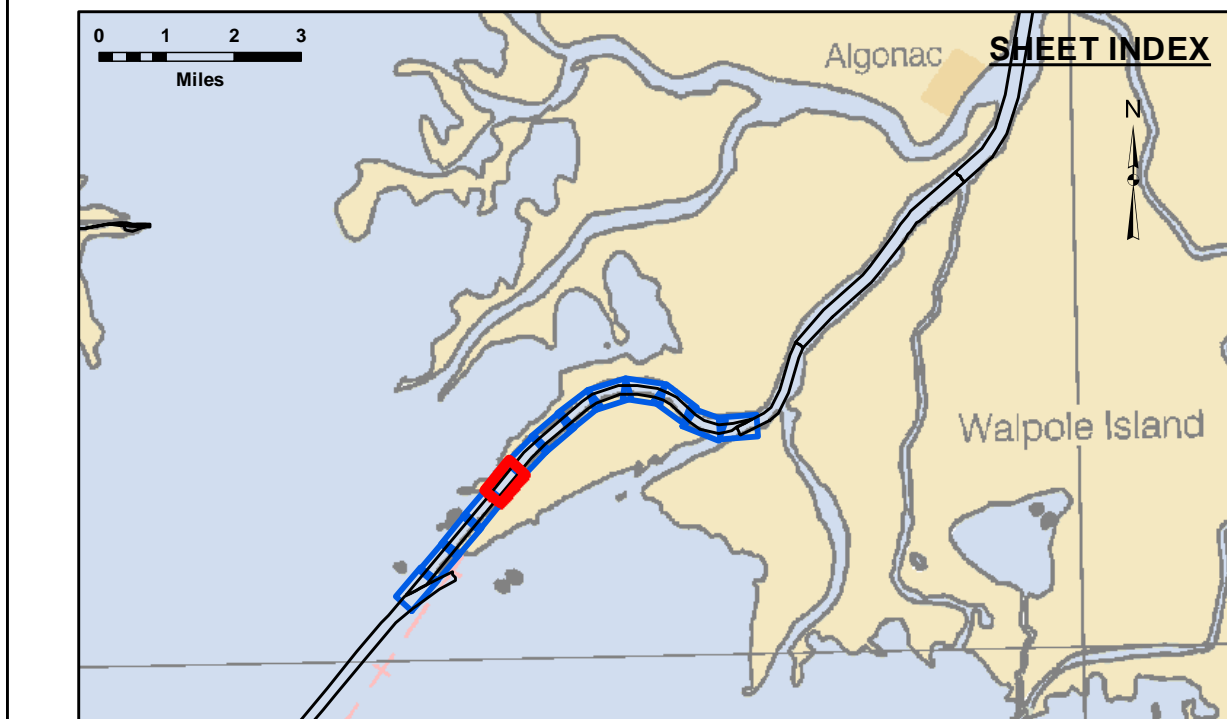
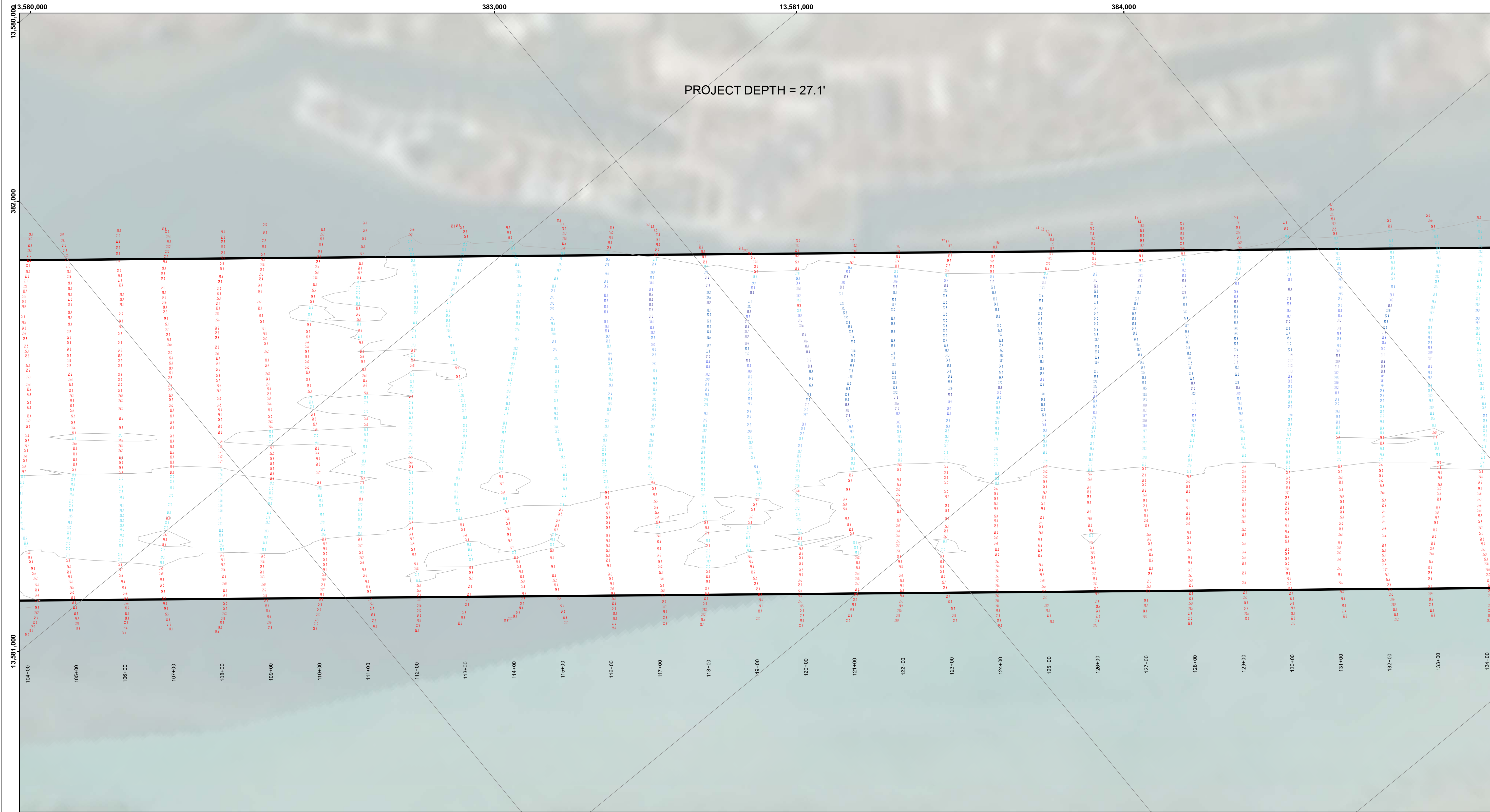
**St. Clair River, MI**  
**Old Southeast Bend**  
**SE\_01\_BND\_20220525\_CS**  
**25 May 2022**

**Sheet Reference Number**  
**3 of 13**







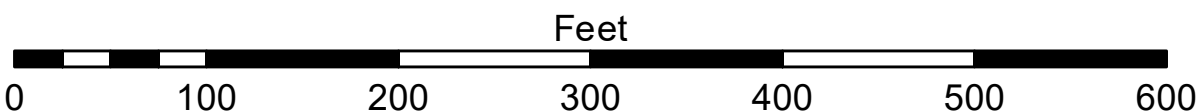


- LEGEND**
- ..... Cable Submarine
  - - Cable Overhead
  - Placement Area
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  - ▭ Channel Limits

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Recommended:	Plotted By:
Approved:	Checked By:

U.S. ARMY CORPS OF ENGINEERS  
DETROIT DISTRICT

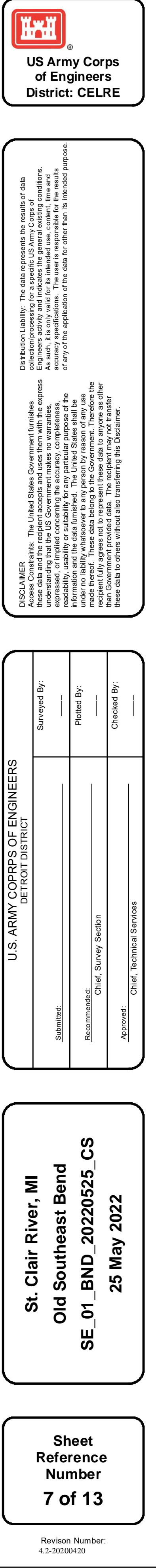
St. Clair River, MI  
Old Southeast Bend  
SE\_01\_BND\_20220525\_CS  
25 May 2022

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Reference  
Number  
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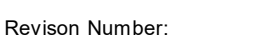




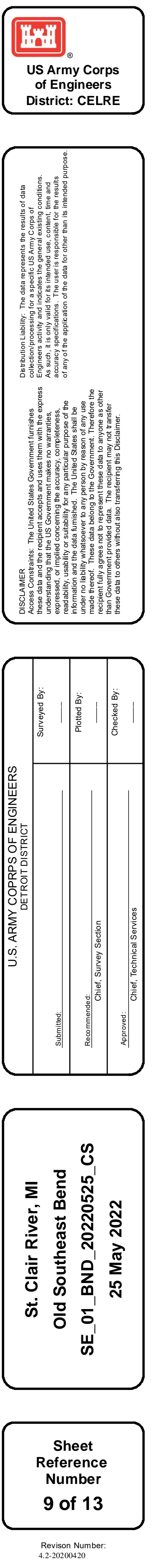




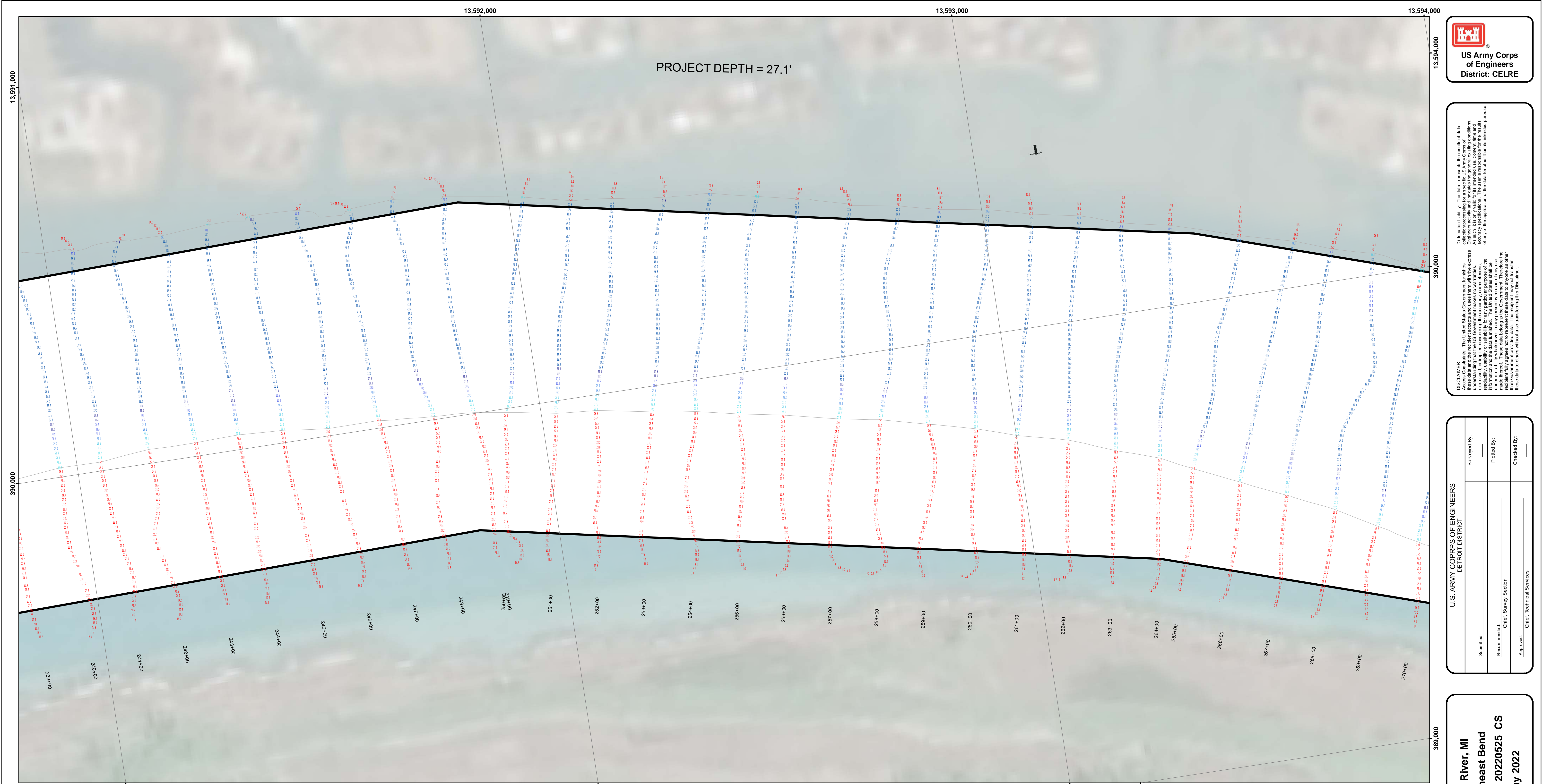












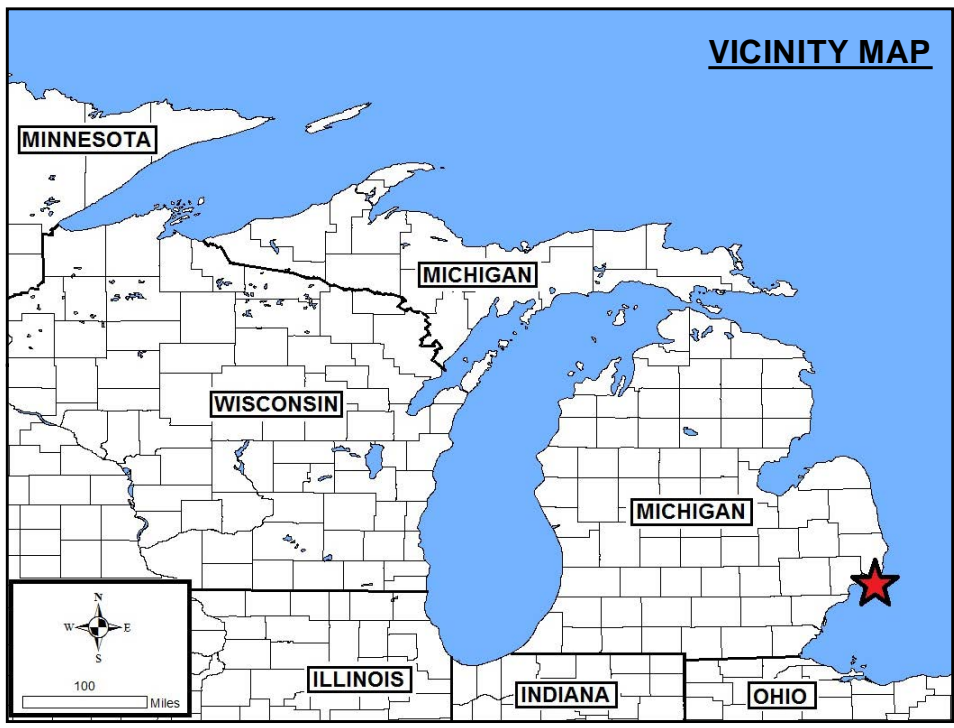
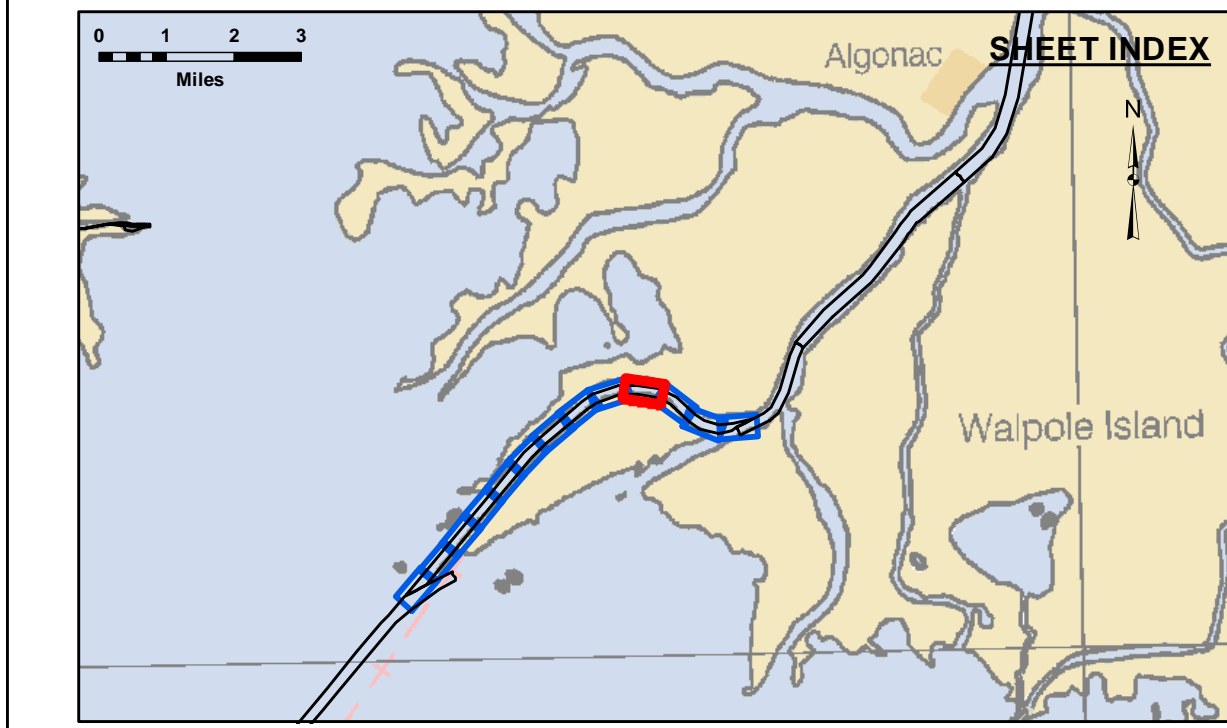
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St. Clair River, MI  
Old Southeast Bend  
SE\_01\_BND\_20220525\_CS  
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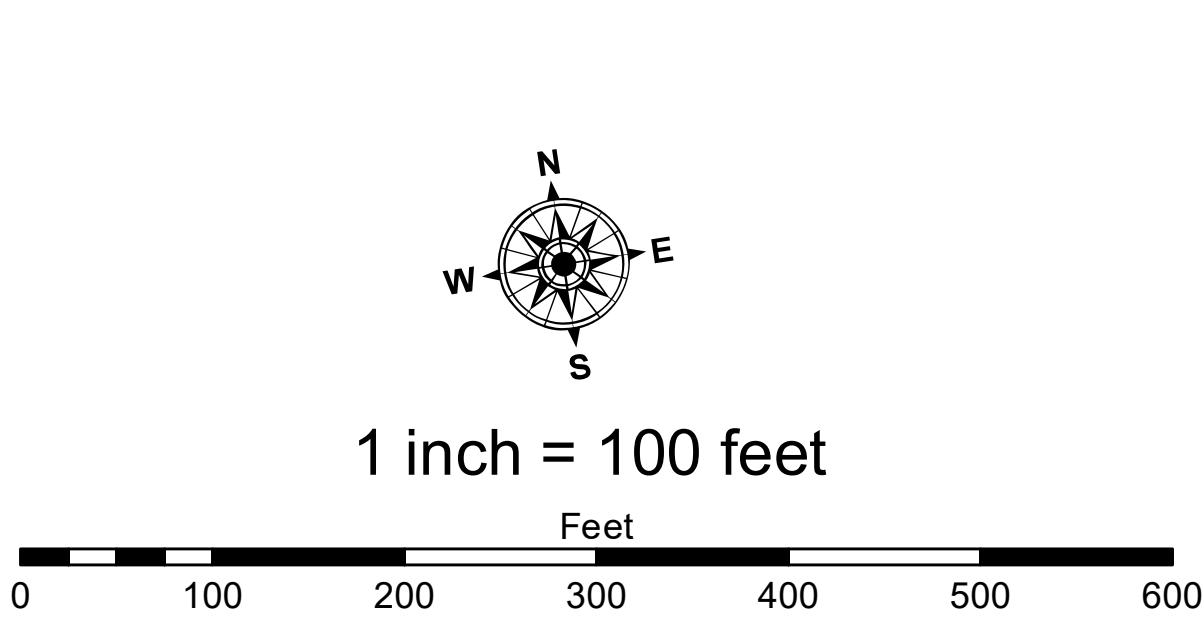
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Reference  
Number  
10 of 13

Revision Number:  
4.2-20220525



- LEGEND**
- ..... Cable Submarine
  - - Cable Overhead
  - Placement Area
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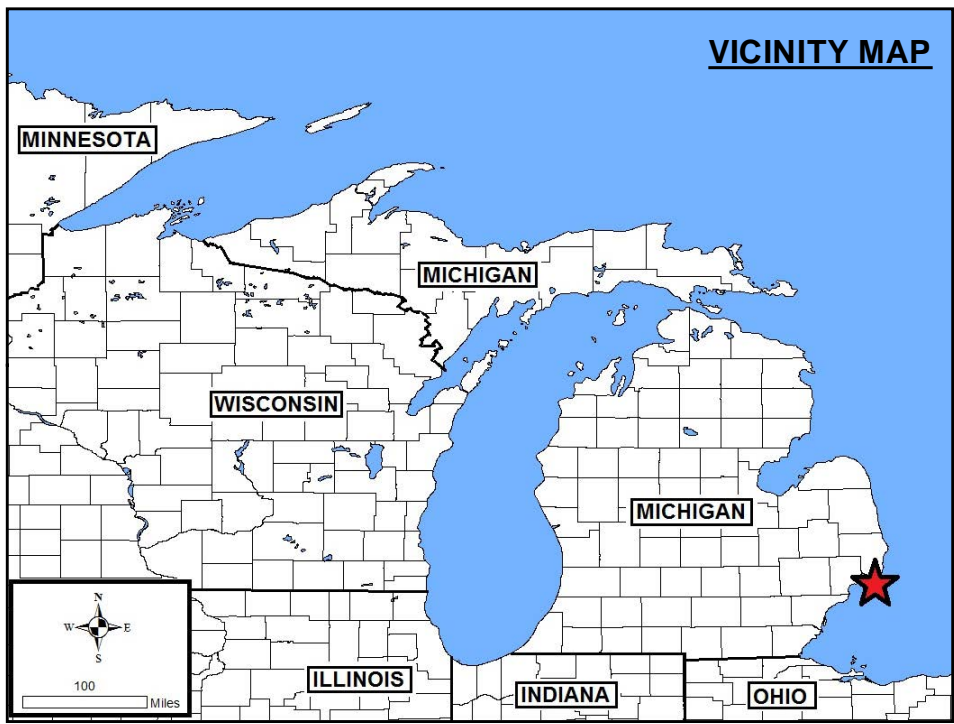
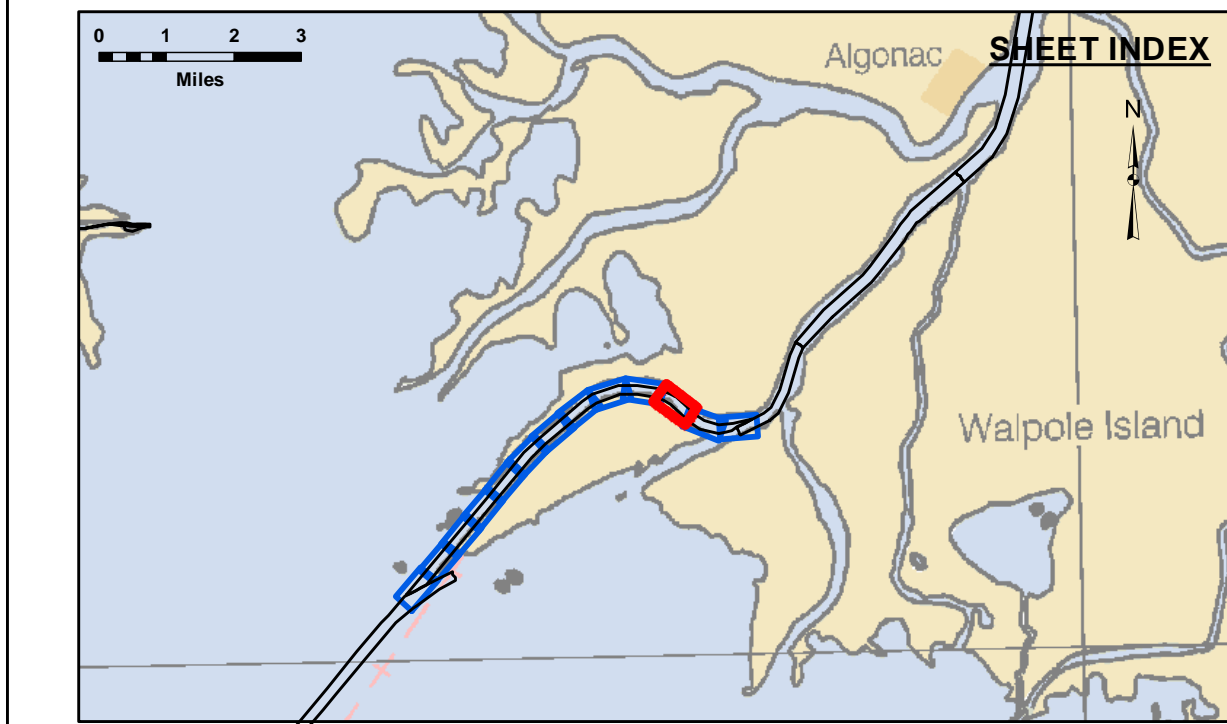
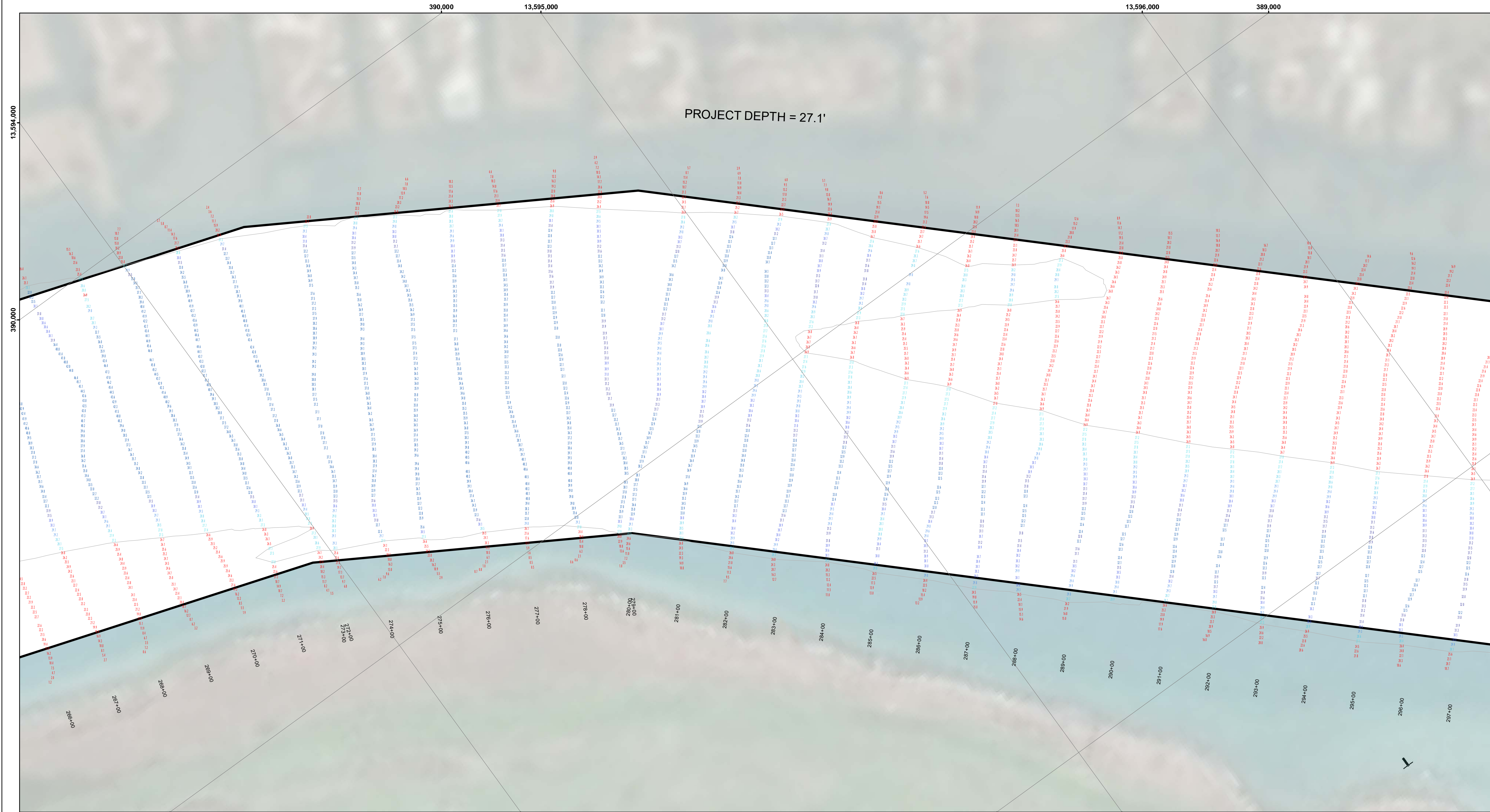
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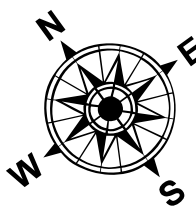
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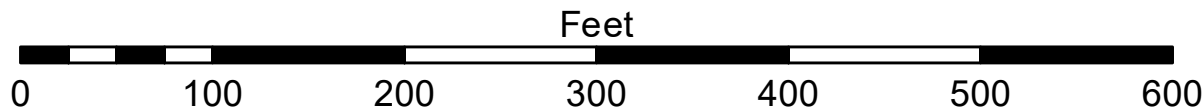


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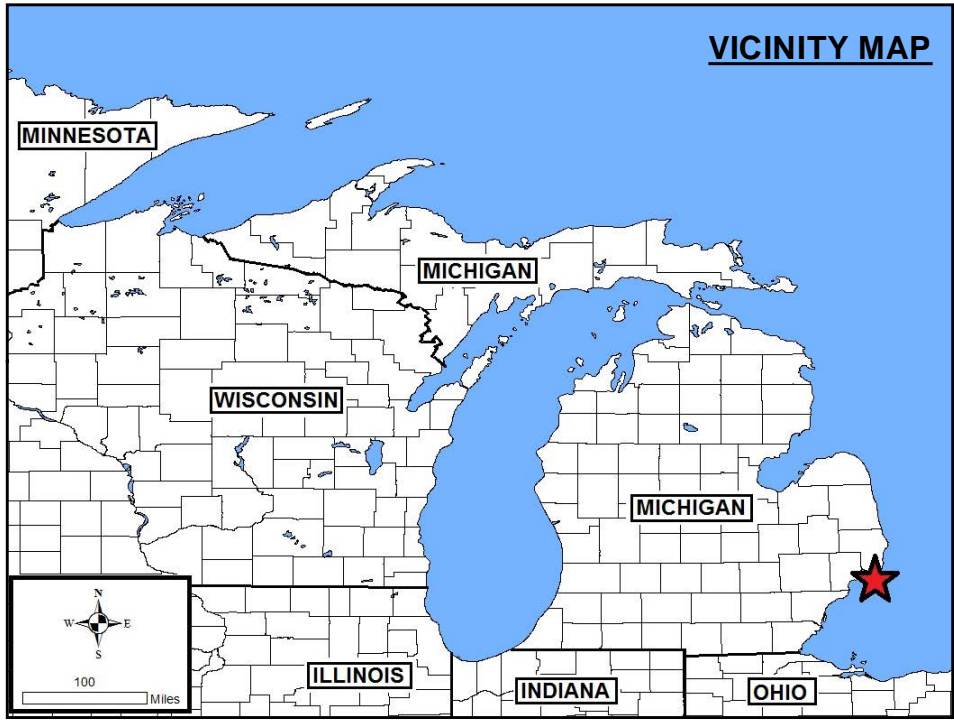
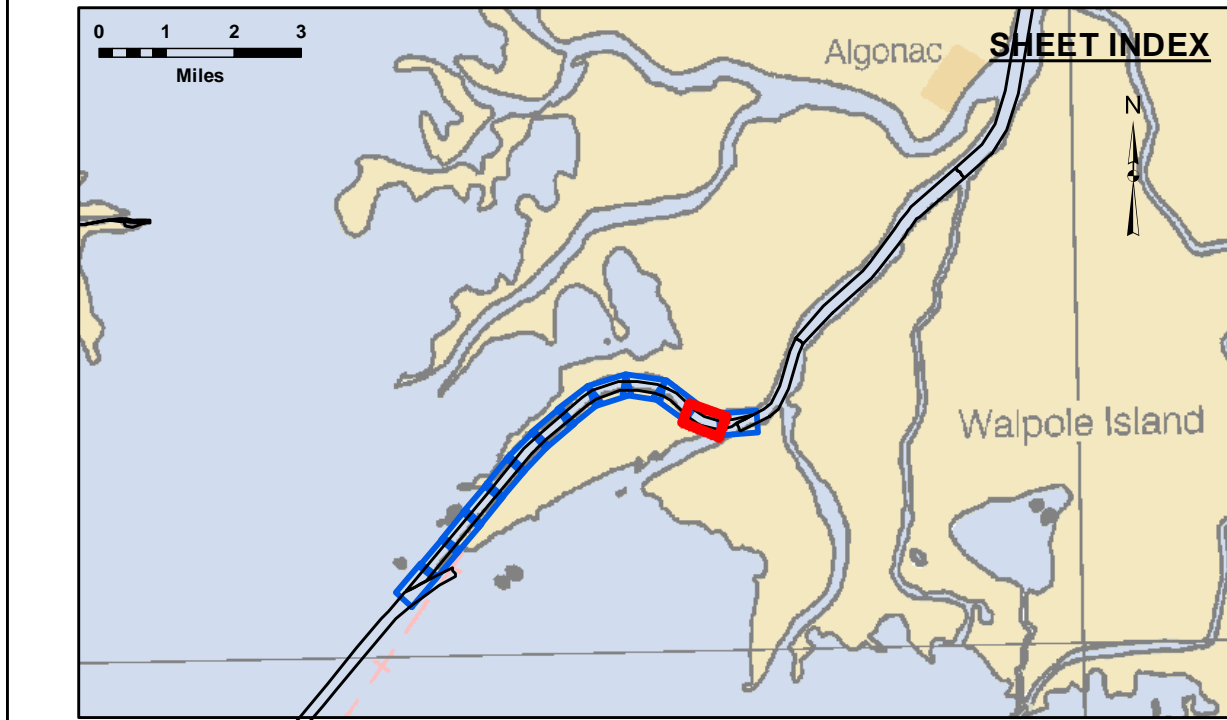
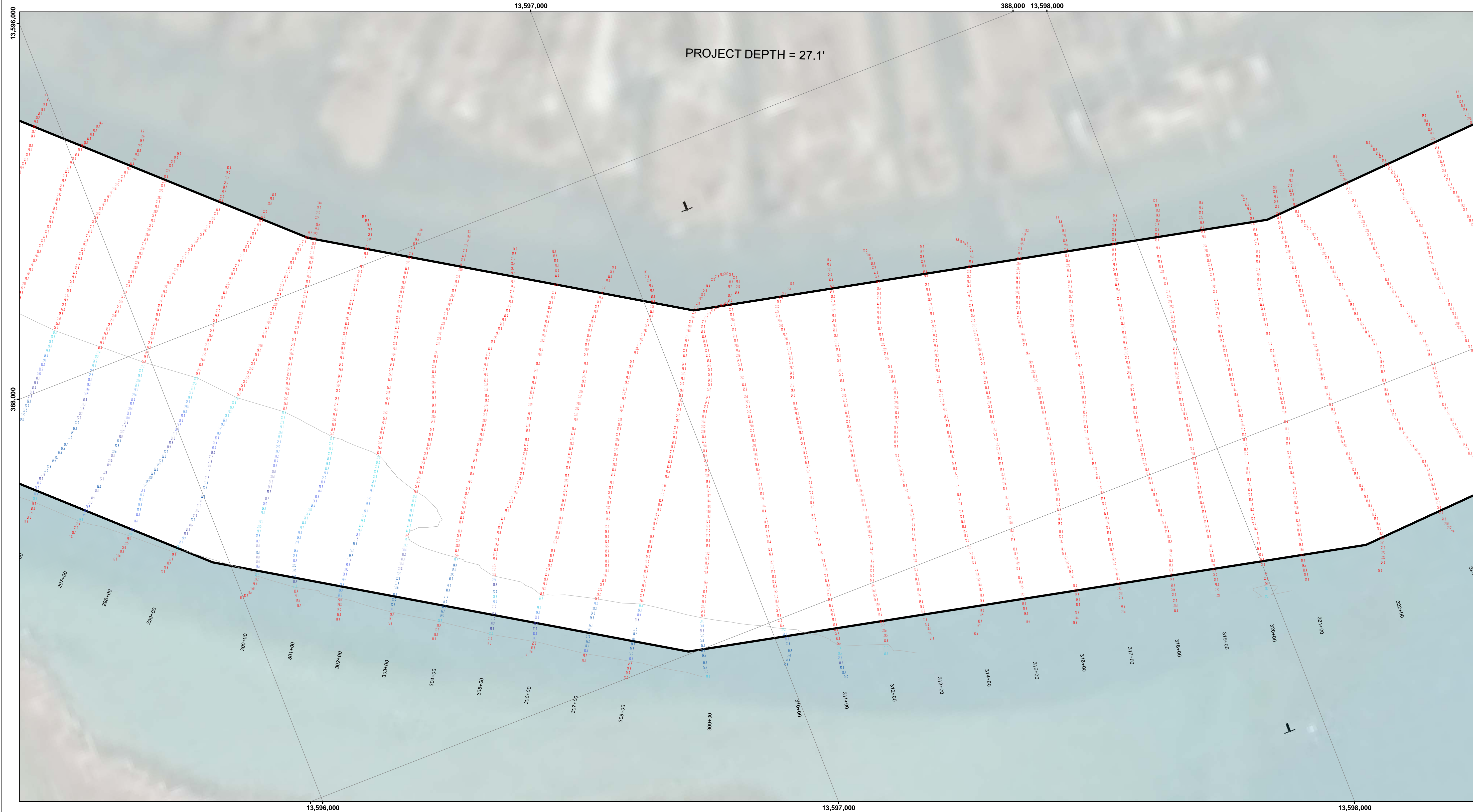
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Submitted:	Surveyed By:
	Plotted By:
	Checked By:
Recommended:	Chief, Survey Section
Approved:	Chief, Technical Services

St. Clair River, MI  
Old Southeast Bend  
SE\_01\_BND\_20220525\_CS  
25 May 2022

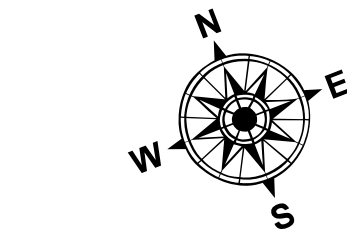
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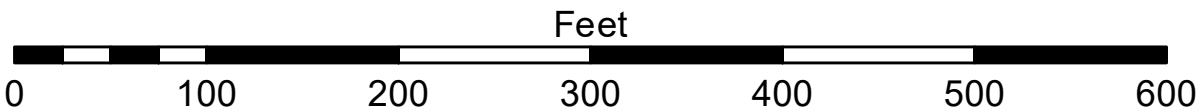


- LEGEND**
- ..... Cable Submarine
  - - Cable Overhead
  - Placement Area
  - └ Beacon, General
  - Contour Lines
  - ▭ Channel Limits

- 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



**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 AT THE TIME.

FOR MULTIBEAM SURVEYS: THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10X10 FOOT AREA CENTERED ON THE TEXT. DERIVED FROM A 1X1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SWATH REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.

HORIZONTAL GRID DATUM BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983, U.S. SURVEY FOOT.

ALL SOUNDINGS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). PROJECT DEPTH FOR THE SOUTHEAST BEND CHANNEL = 27.1'

TIDE VALUES ARE DERIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATIONS:

ALGONAC, MI (#9014070)  
ST. CLAIR SHORES, MI (#9034052)  
TEMPORARY GAGE BOARDS SET ALONG SOUTHEAST BEND CHANNEL

POSITIONING: APPLANIX POS-MV4 W/ VRS/RTK OR MARINESTAR GNSS.  
MOTION COMPENSATION: APPLANIX POS-MV4  
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)  
SOFTWARE: HYPACK



DISCLAIMER: The data presented on this map is the result of data collection and processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions. The user is responsible for the accuracy of the data and for the application of the data to other than its intended purpose.

Access Constraints: The United States Government furnishes these data and the recipient accepts and uses them with the express understanding that the data are not to be used for any purpose other than that for which they were provided, and that the data are not to be used for any purpose other than that for which they were provided, and that the data are not to be used for any purpose other than that for which they were provided.

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

St. Clair River, MI  
Old Southeast Bend  
SE\_01\_BND\_20220525\_CS  
25 May 2022

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