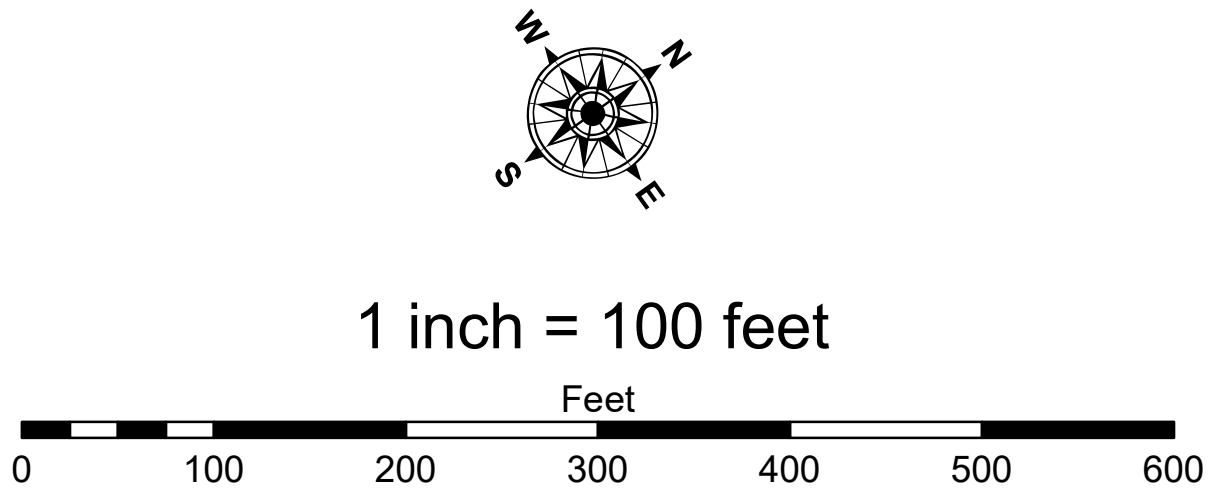


- LEGEND**
- Cable Submarine
 - - Cable Overhead
 - Placement Area
 - ⊥ Beacon, General
 - Contour Lines
 - ▭ Channel Limits

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



NOTES:

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

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

ALL SOUNDINGS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). L.W.D. AS INDICATED. PROJECT DEPTHS FOR THIS RIVER RANGE FROM 27.1' TO 30.0'

TIDE VALUES ARE DERIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATIONS:
ST CLAIR SHORES (19034052)
ALGONAC, MI (19014070)
ST CLAIR POLICE, MI (19014080)
BLACK RIVER, MI (19014090)
DRY DOCK, MI (19014087)
DUNN PAPER, MI (19014096)

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS. ALL COORDINATES ARE IN U.S. SURVEY FEET.

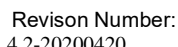


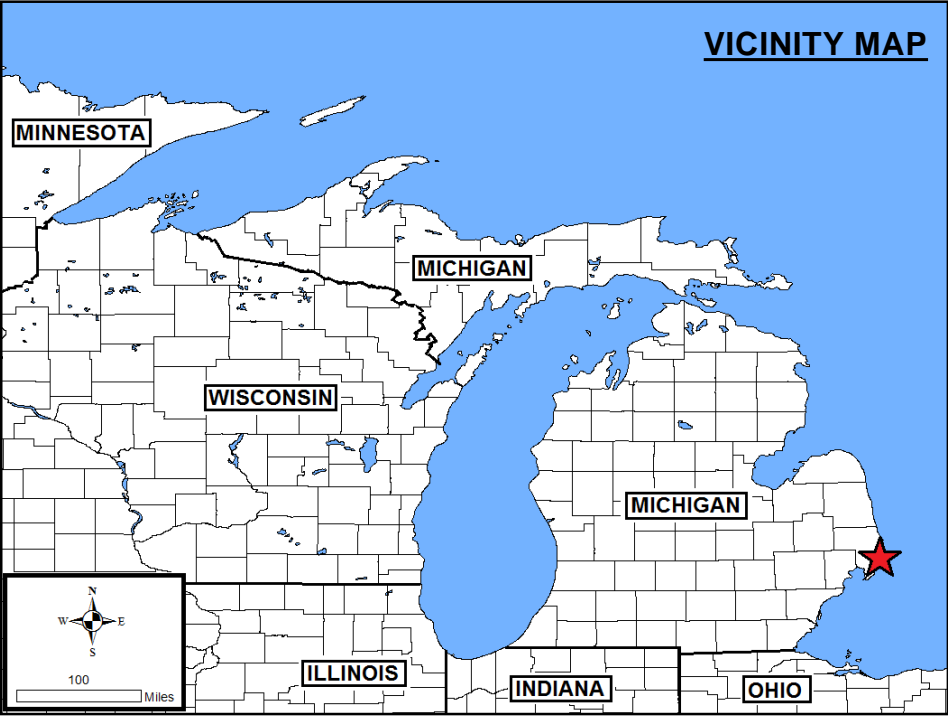
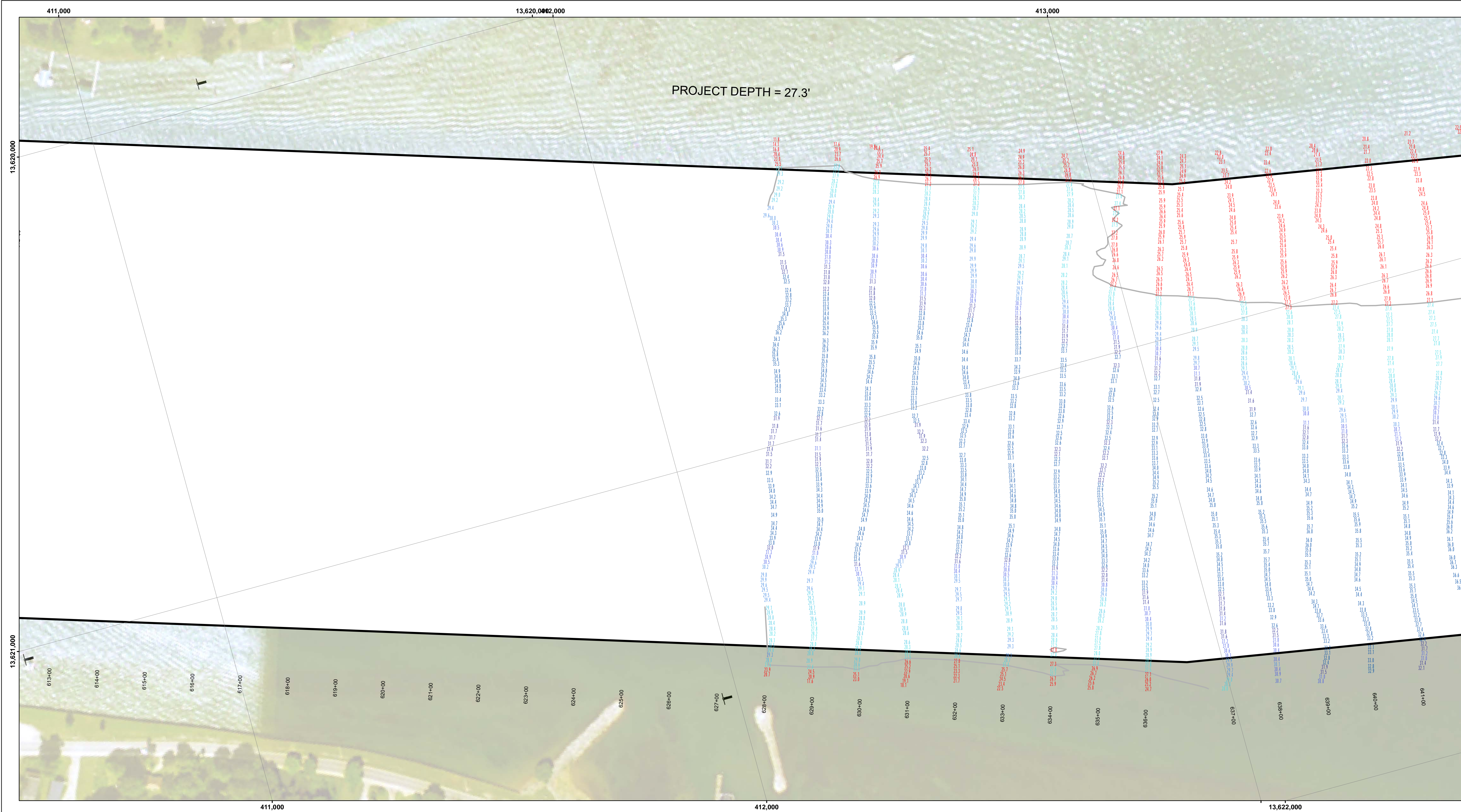
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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Chief, Survey Section	
	Chief, Technical Services	

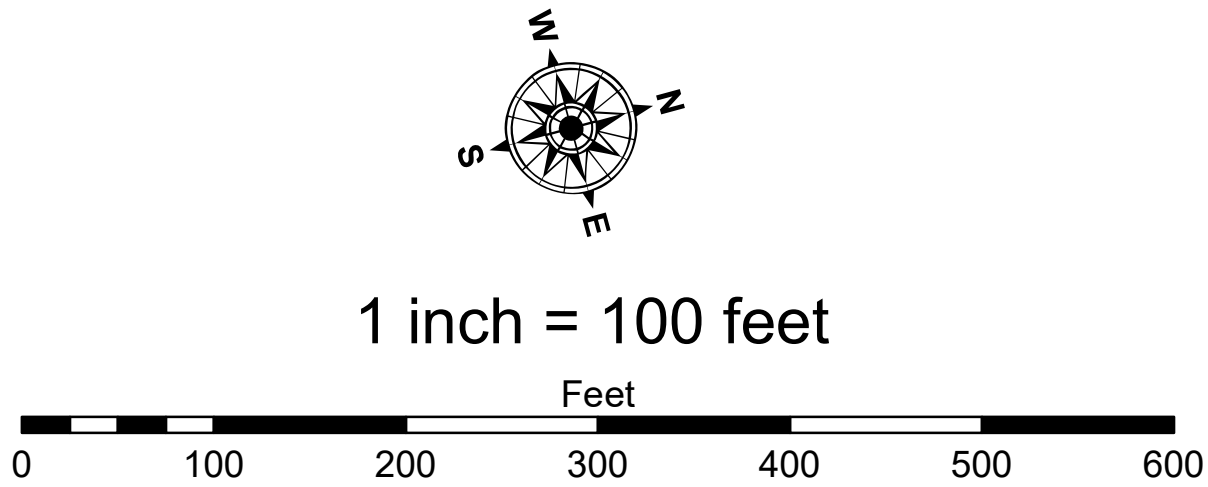
St. Clair River, MI
St. Clair River
CR_01_SCR_20220815_CS_TS
15 August 2022





- 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'
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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

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2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS. ALL COORDINATES ARE IN U.S. SURVEY FEET.

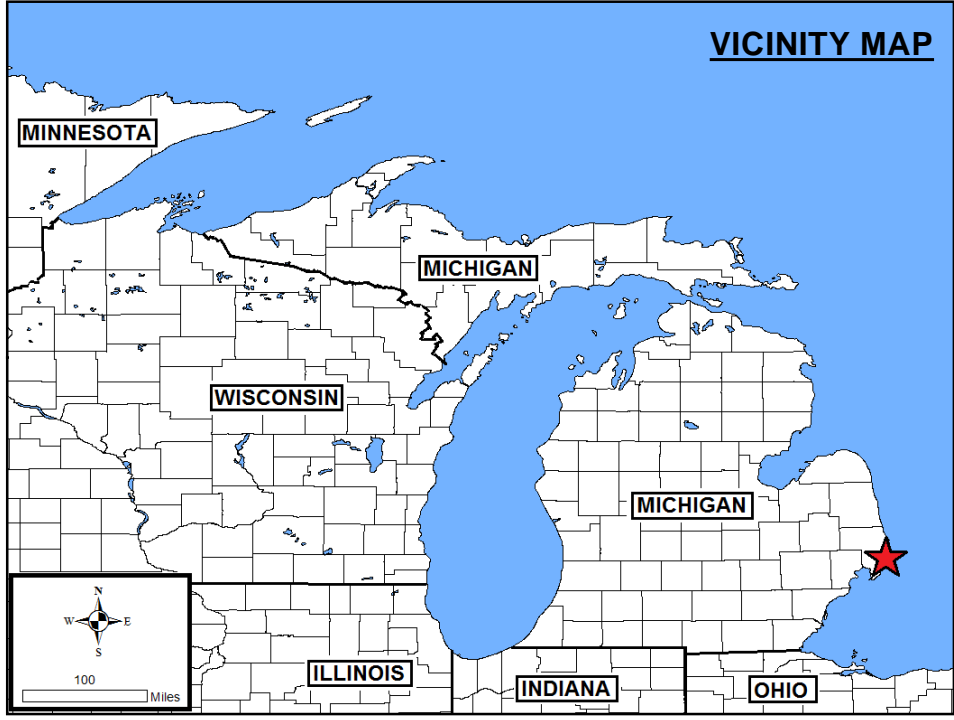
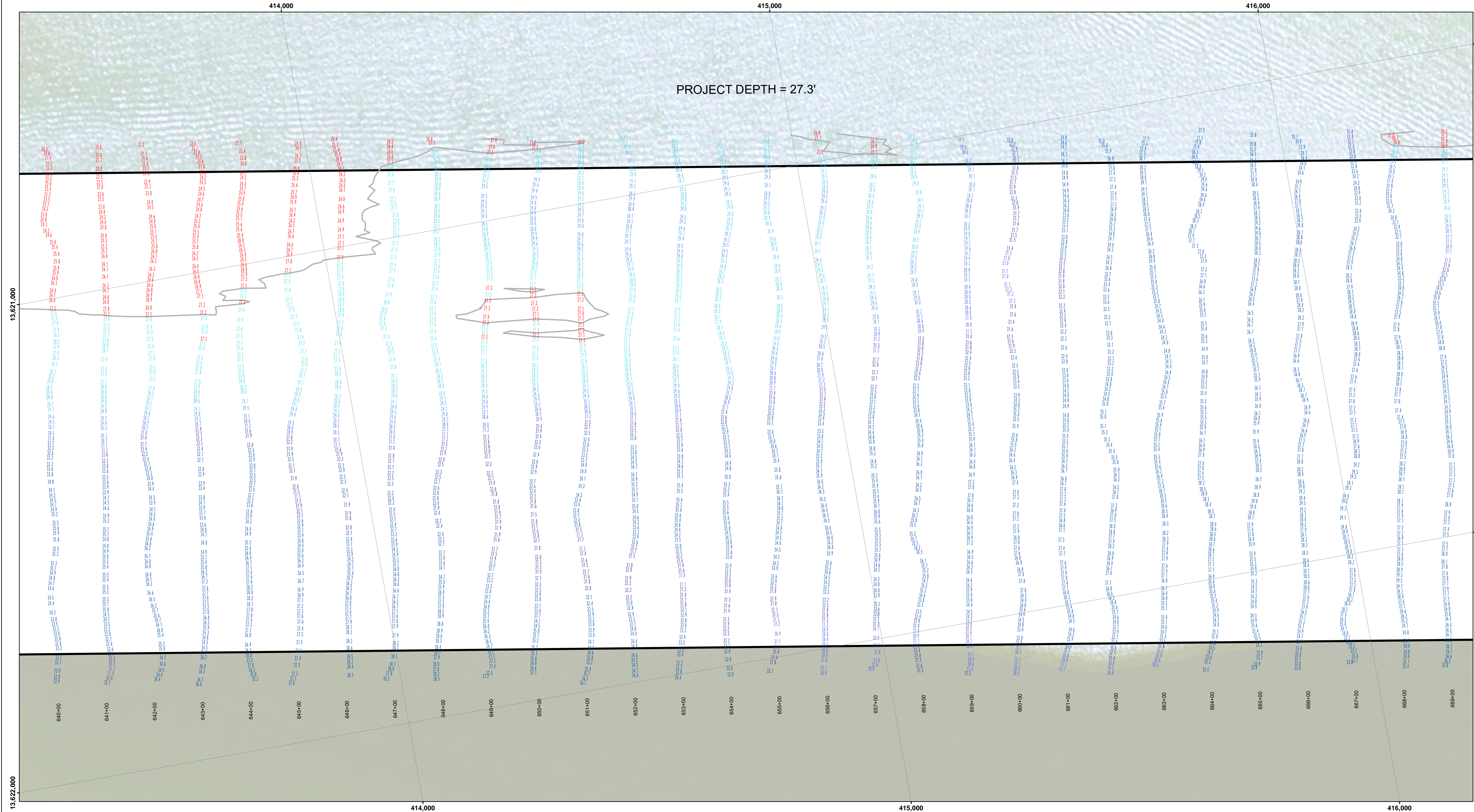


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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Chief, Survey Section	
	Chief, Technical Services	

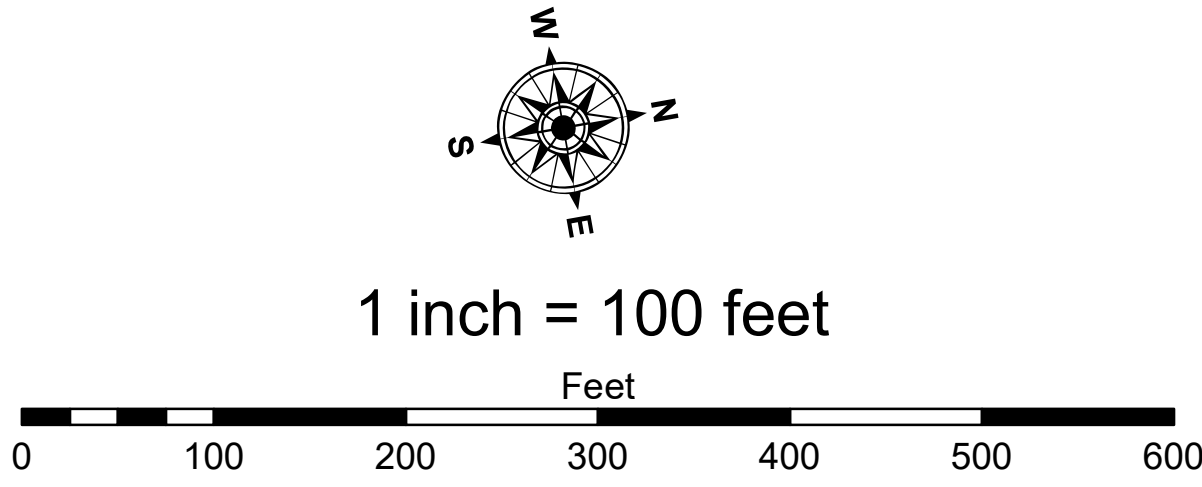
St. Clair River, MI
St. Clair River
CR_01_SCR_20220815_CS_RIS
15 August 2022

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

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
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MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

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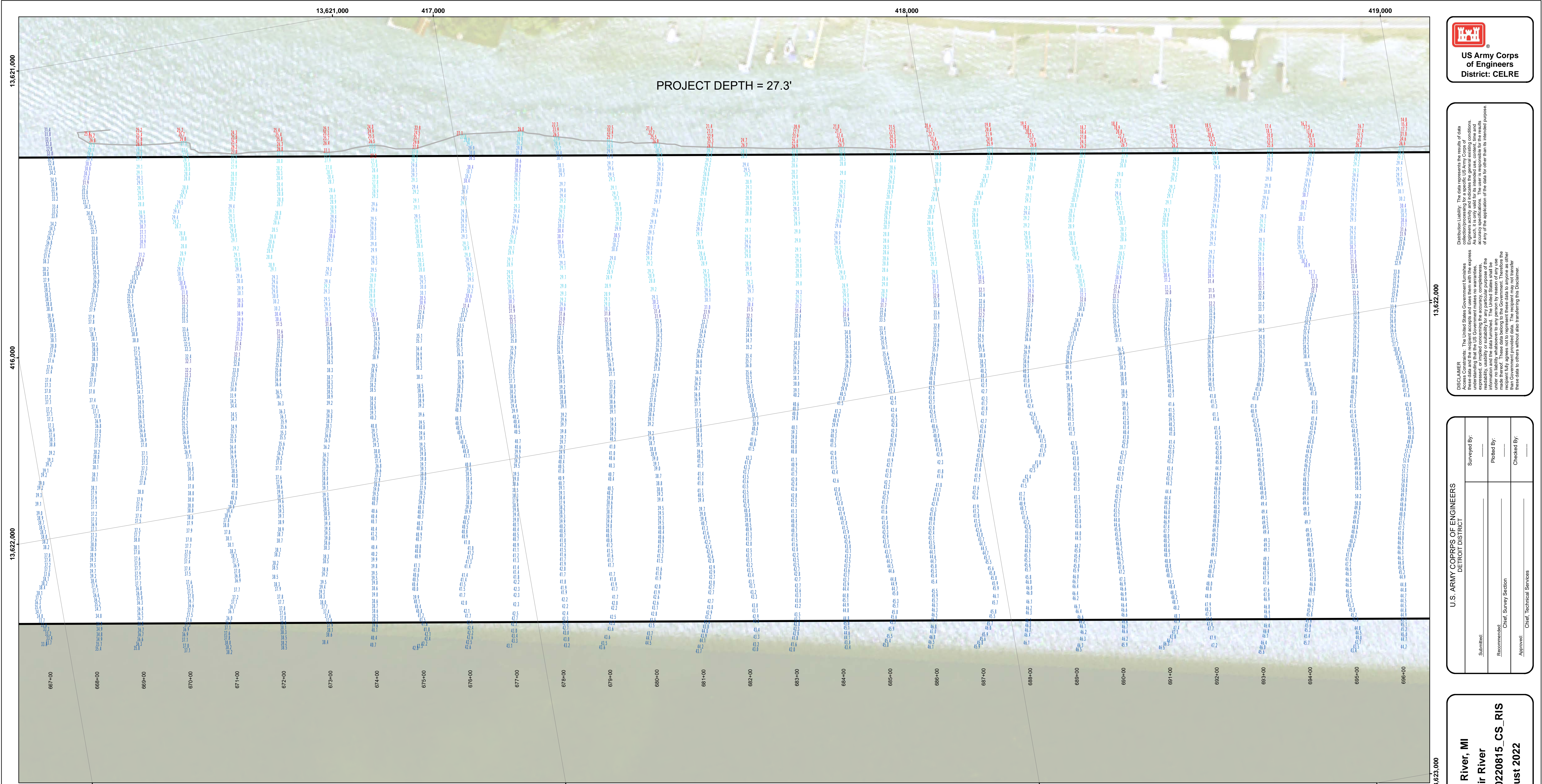
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Submitted:	Surveyed By:	Plotted By:	Checked By:
	Chief, Survey Section		Chief, Technical Services

St. Clair River, MI
St. Clair River
CR_01_SCR_20220815_CS_RIS
15 August 2022

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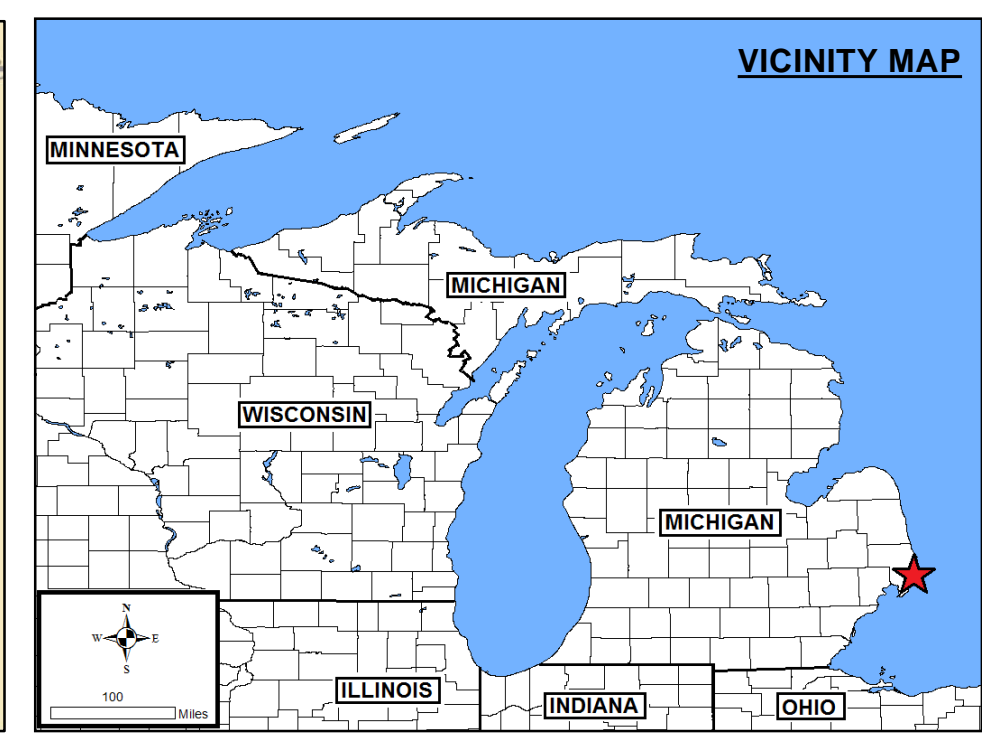


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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT			
Submitted: _____	Surveyed By: _____		
Recommended: _____	Plotted By: _____		
Approved: _____	Checked By: _____		

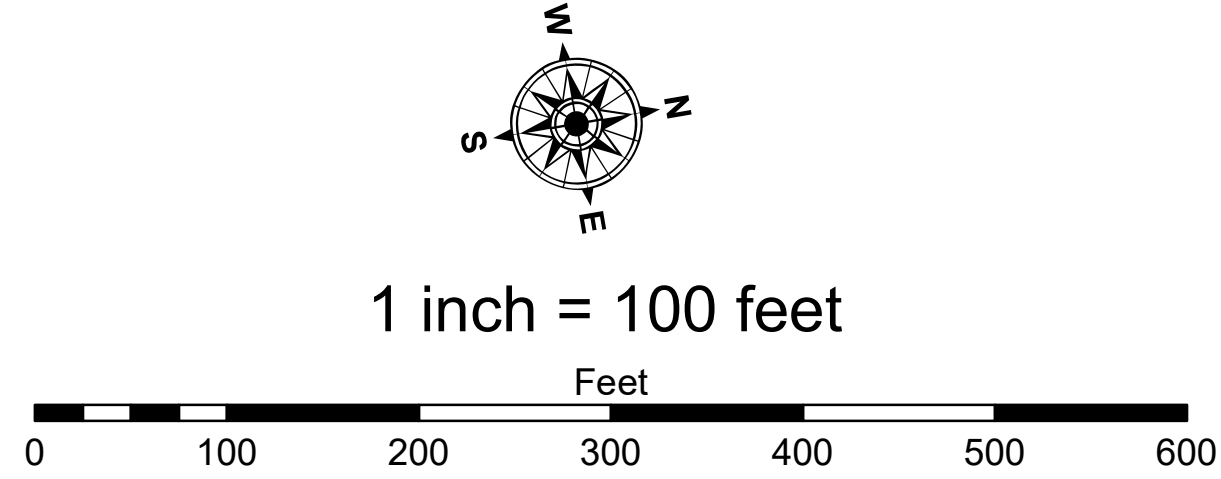
St. Clair River, MI
St. Clair River
CR_01_SCR_20220815_CS_RIS
15 August 2022

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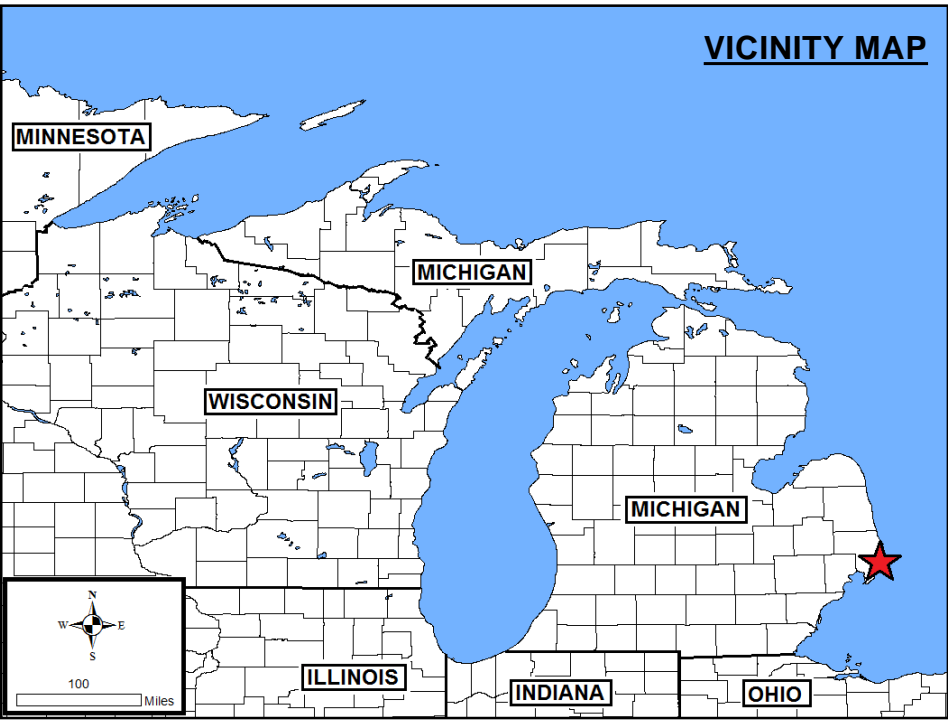
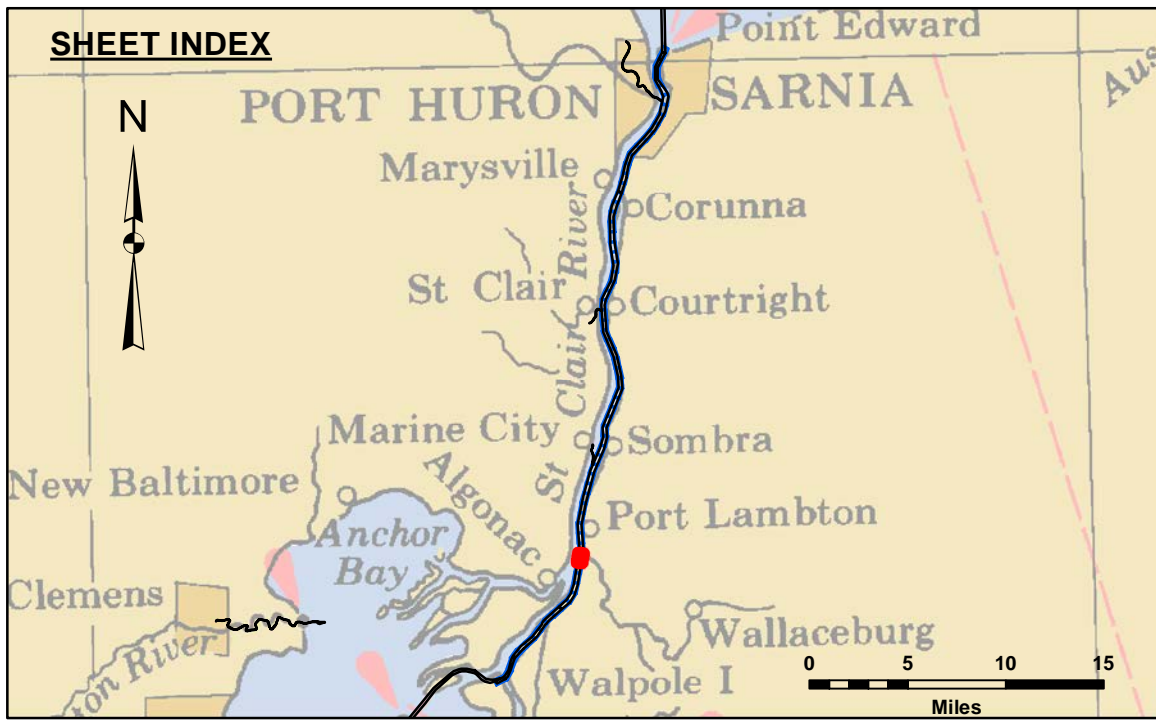
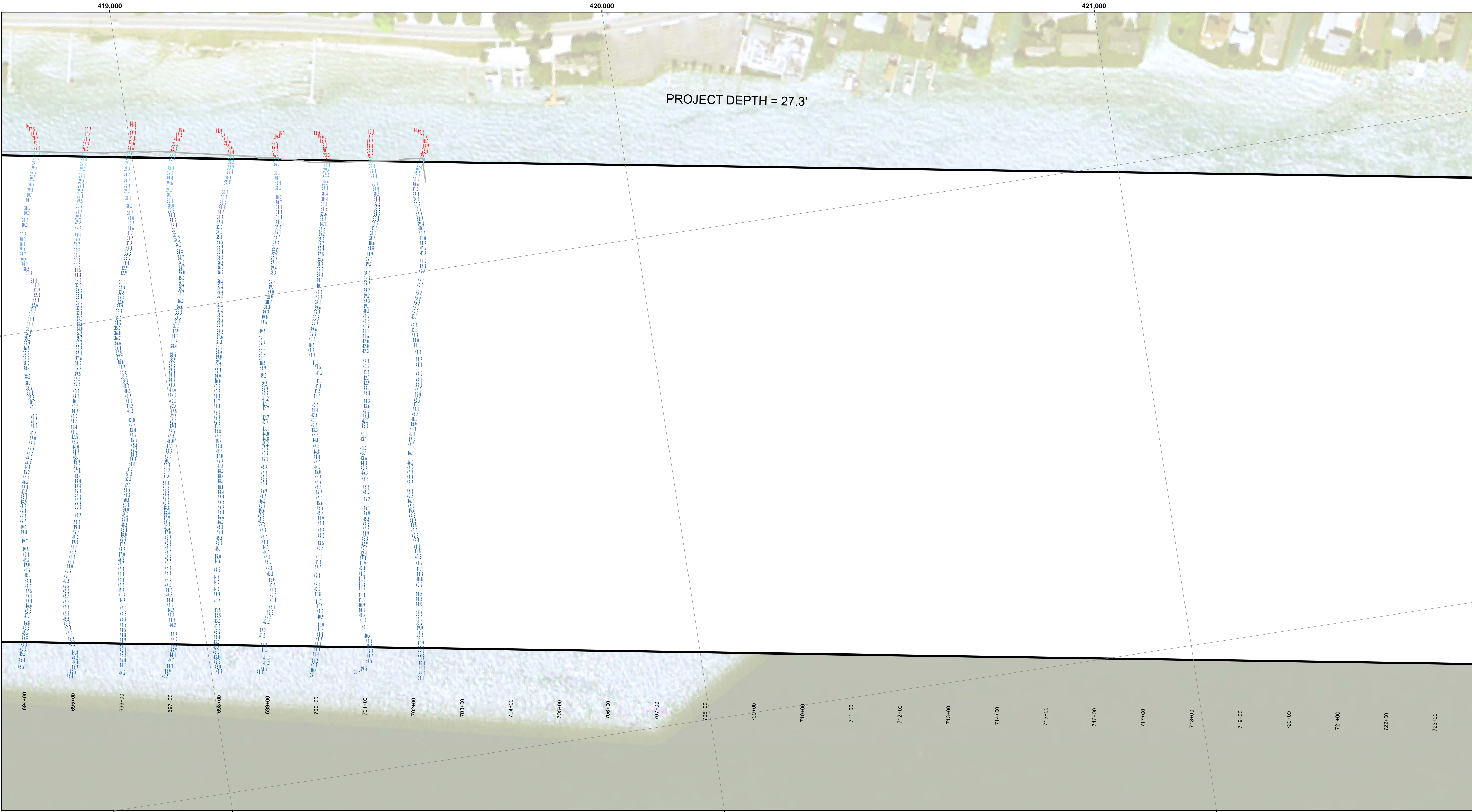
HORIZONTAL GRID DATUM BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983, U.S. SURVEY FOOT.

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

ALL SOUNDINGS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). L.W.D. AS INDICATED. PROJECT DEPTHS FOR THIS RIVER RANGE FROM 27.1' TO 30.0'

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ST CLAIR SHORES, MI (#9034052)
ALGONAC, MI (#9014070)
ST CLAIR POLICE, MI (#9014080)
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DUNN PAPER, MI (#9014096)

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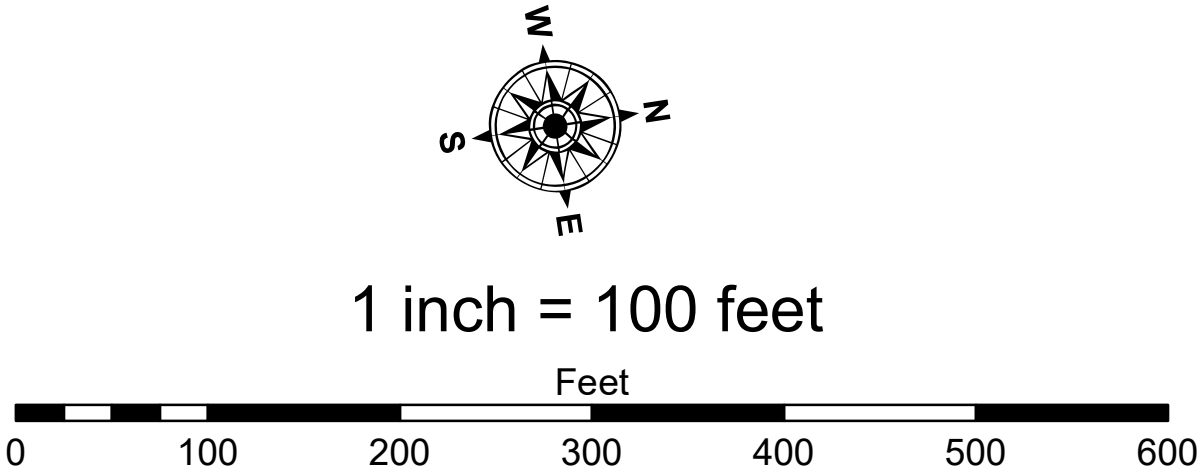


LEGEND

- 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'



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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

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Availability: The data is available for use by any person for any purpose, provided that the user is responsible for the results of any application of the data for other than its intended purpose.

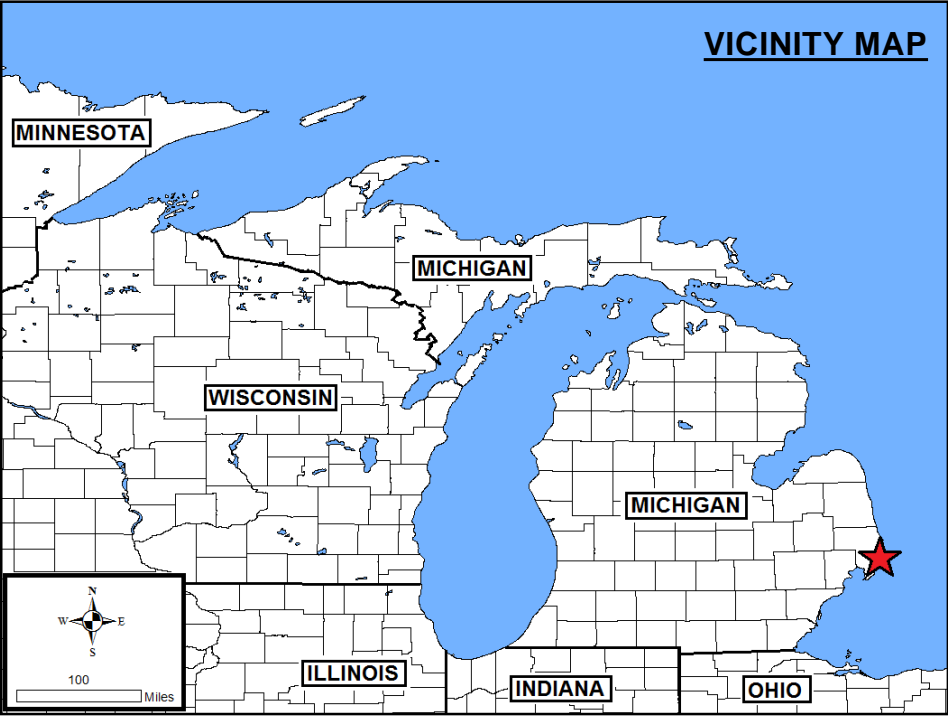
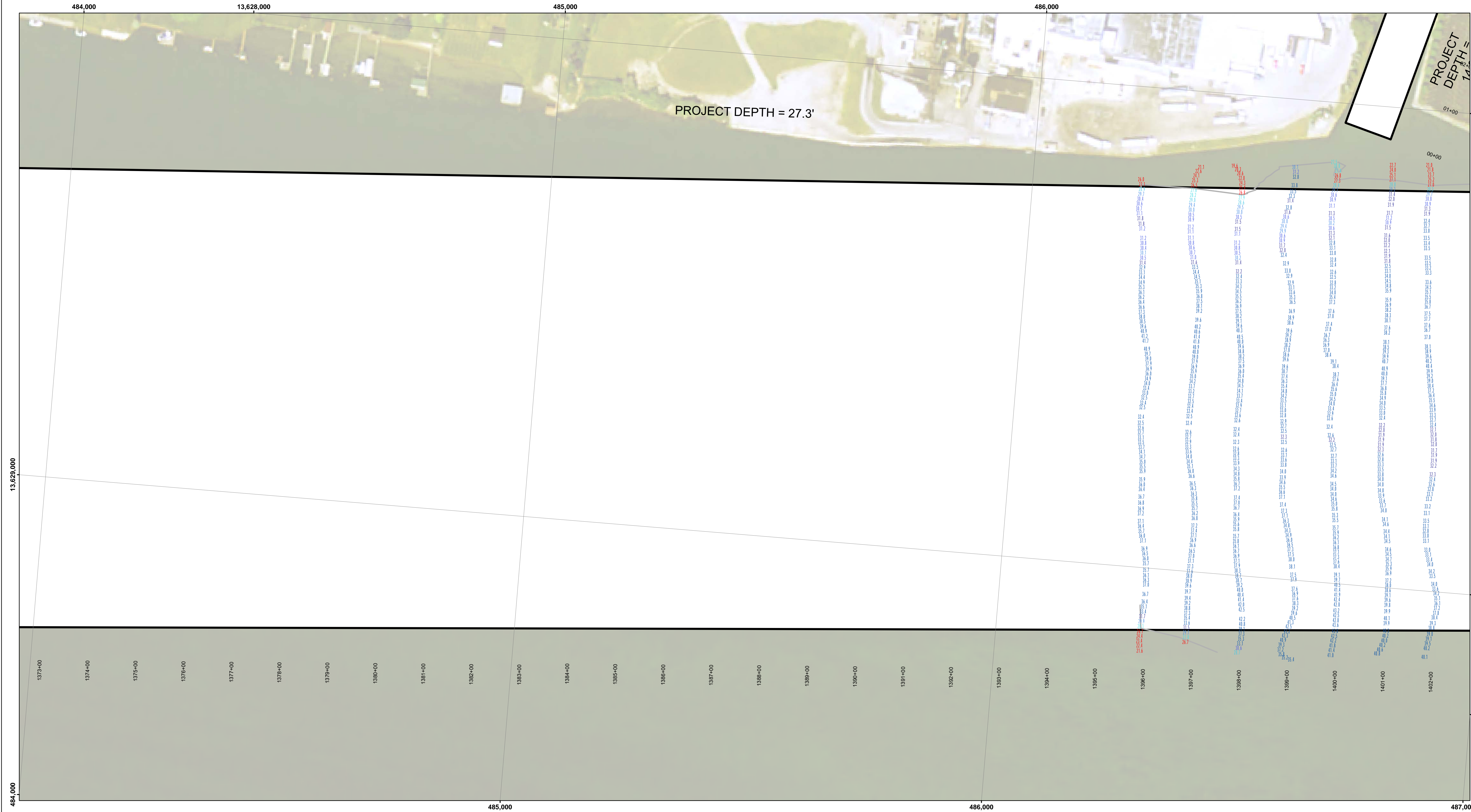
Under no circumstances shall the data be used for any purpose other than that for which they were provided. The user is responsible for the results of any application of the data for other than its intended purpose.

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

St. Clair River, MI
St Clair River
CR_01_SCR_20220815_CS_RIS
15 August 2022

Sheet
Reference
Number
16 of 69

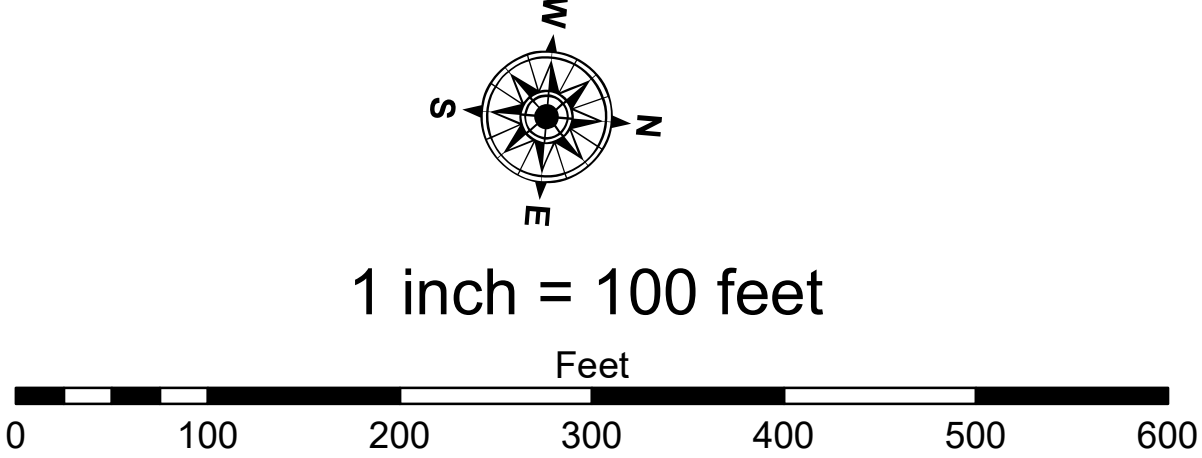


LEGEND

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

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
- PROJECT DEPTH
- PROJECT DEPTH +1'
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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

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WATER LEVEL STATIONS:
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ST CLAIR POLICE, MI (#9014080)
BLACK RIVER, MI (#9014090)
DRY DOCK, MI (#9014087)
DUNN PAPER, MI (#9014096)

TIDE VALUES ARE DERRIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)

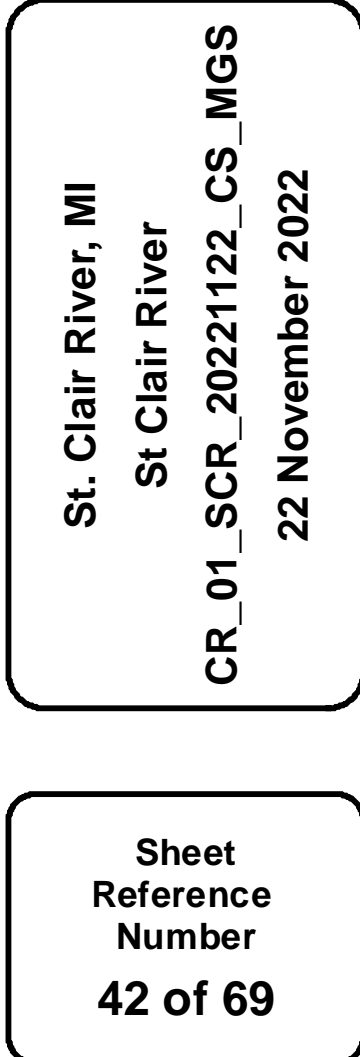

**US Army Corps
of Engineers**
District: CELRE

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

St. Clair River, MI
St Clair River
CR_01_SCR_20220811_CS_MGS
11 August 2022

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Reference
Number**
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DISCLAIMER

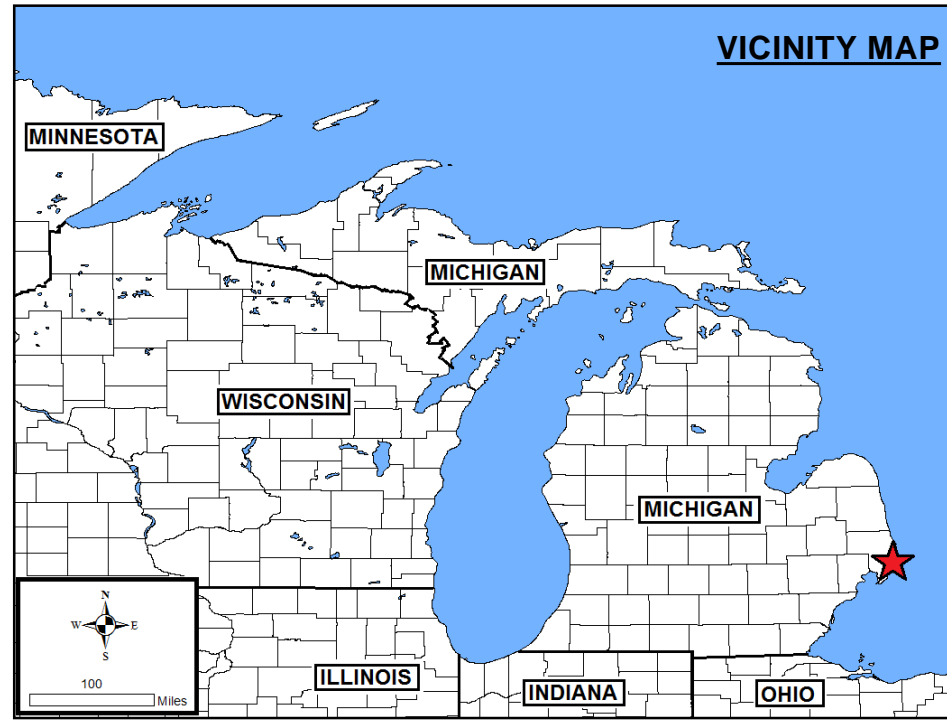
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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT	
Submitted: _____	Surveyed By: _____
Recommended: _____ Chief, Survey Section	Plotted By: _____
Approved: _____ Chief, Technical Services	Checked By: _____

St. Clair River, MI
St Clair River
CR_01_SCR_20220811_CS_MGS
11 August 2022

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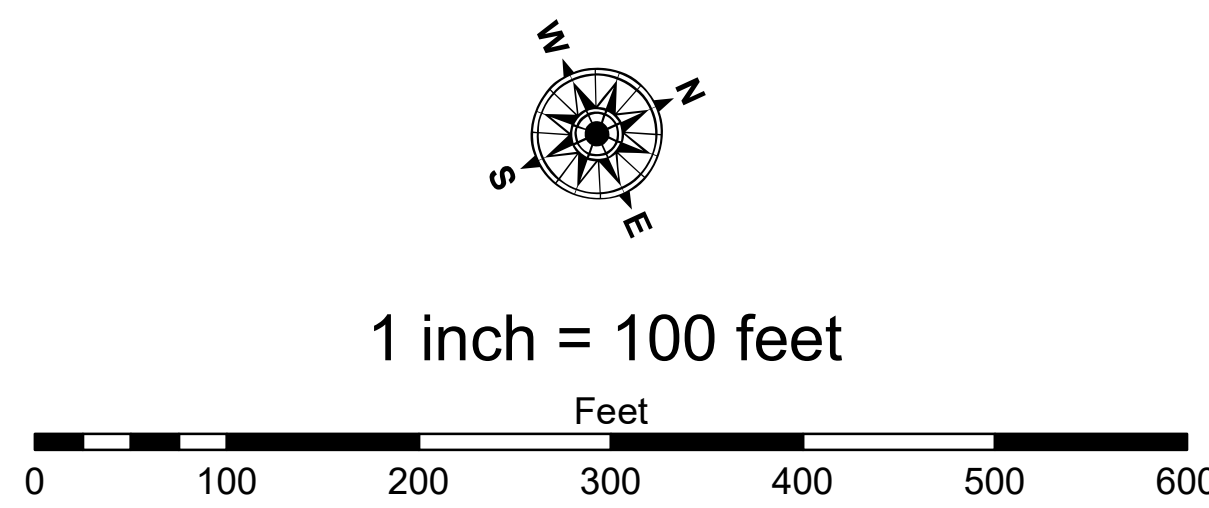


- LEGEND**

 - Cable Submarine
 - - Cable Overhead
 - Placement Area
 - ⌊ Beacon, General
 - Contour Lines
 - ▮ Channel Limits

SOUNDING LEGEND

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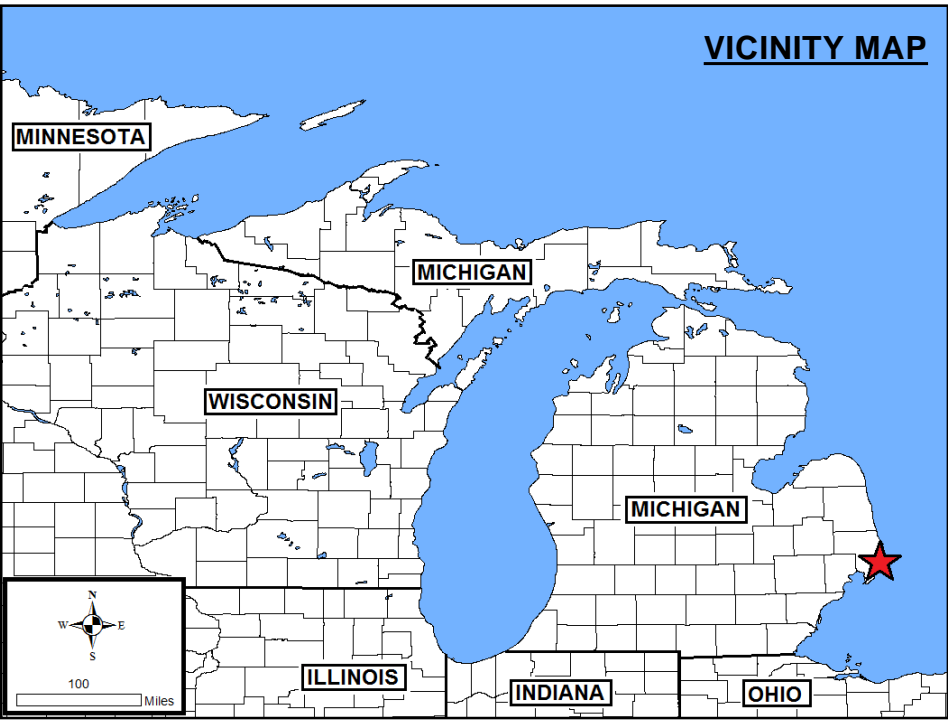
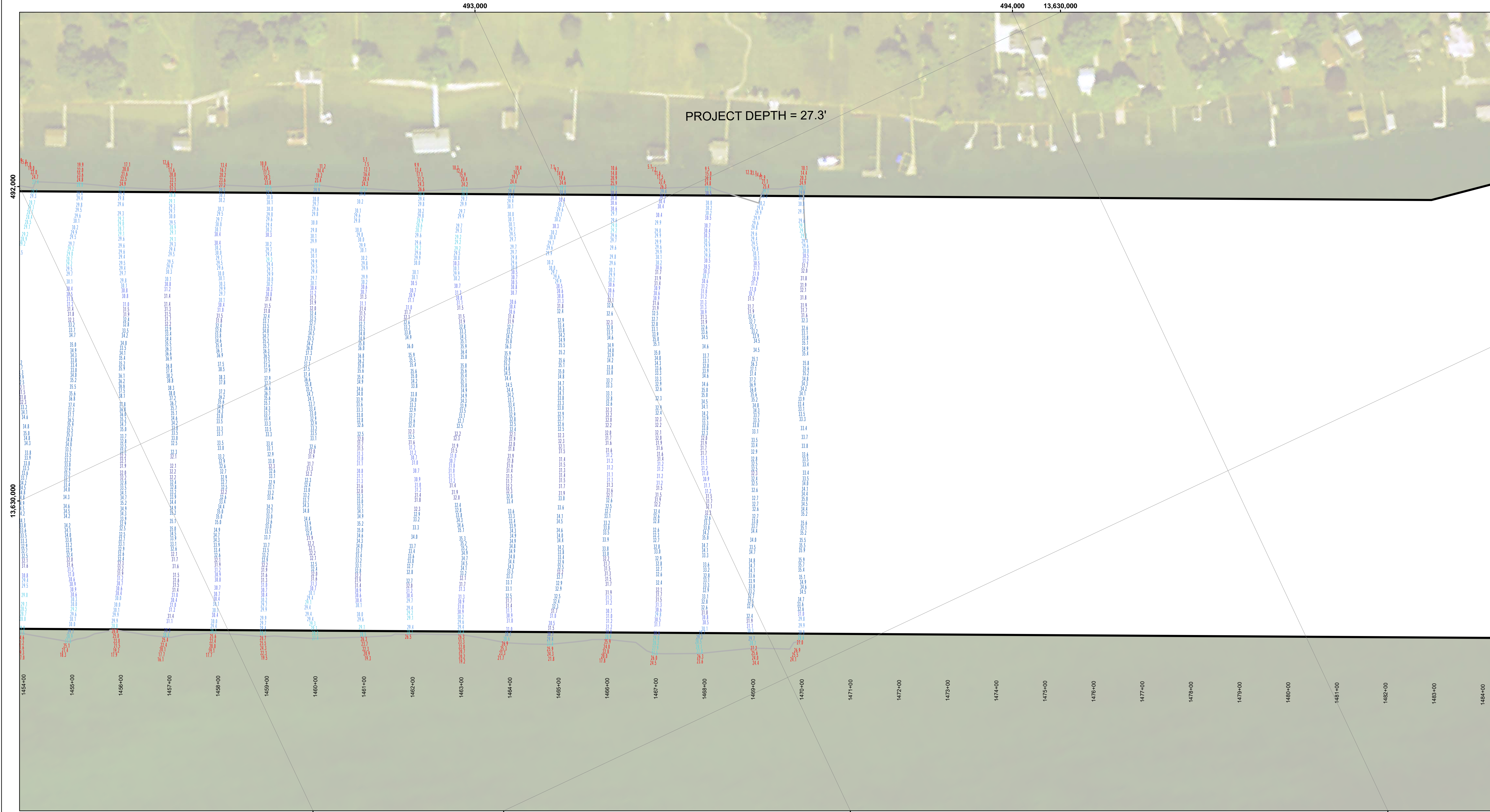
HORIZONTAL GRID DATUM BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983, U.S. SURVEY FOOT.

POSITIONING: APPLINX POS-M/4 W/ VRS/RTK OR MARINESTAR GNSS.
MOTION COMPENSATION: APPLINX POS-M/4
SONAR: RZSONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

ALL SOUNDINGS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). L.W.D. AS INDICATED. PROJECT DEPTHS FOR THIS RIVER RANGE FROM 27.1' TO 30.0'.

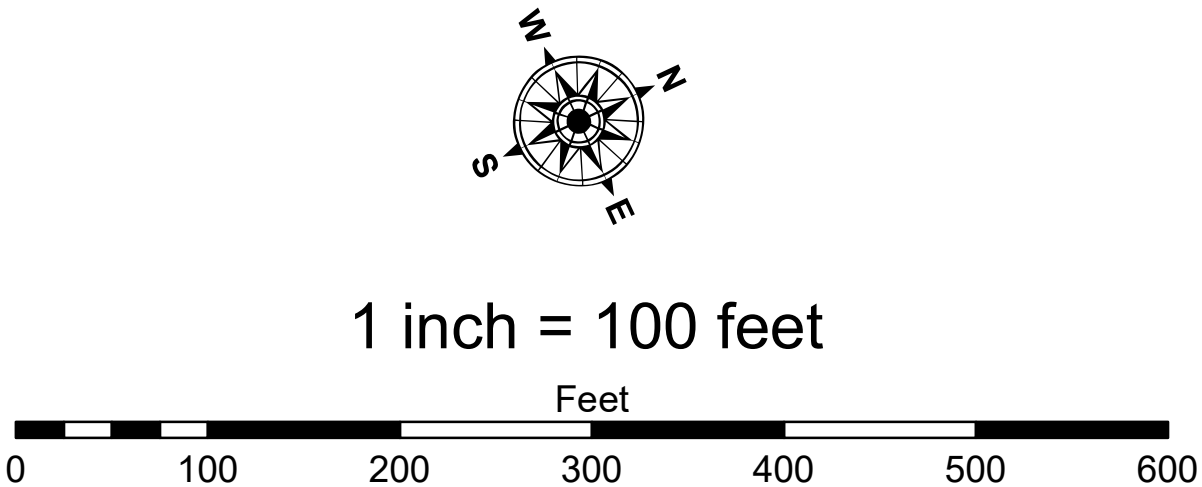
TIDE VALUES ARE DERIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATIONS:
ST CLAIR SHORES (#9034052)
ALGONAC, MI (#9014070)
ST CLAIR POLICE, MI (#9014080)
BLACK RIVER, MI (#9014090)
DRY DOCK, MI (#9014087)
DUNN PAPER, MI (#9014096)

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS. ALL COORDINATES ARE IN U.S. SURVEY FEET.



- 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'



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

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

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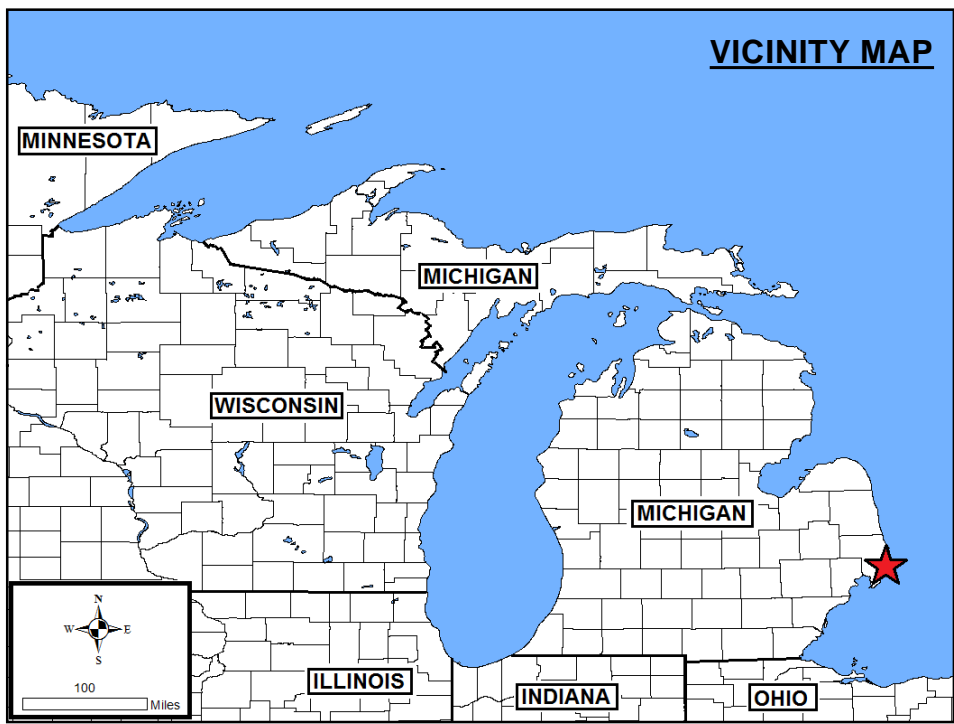
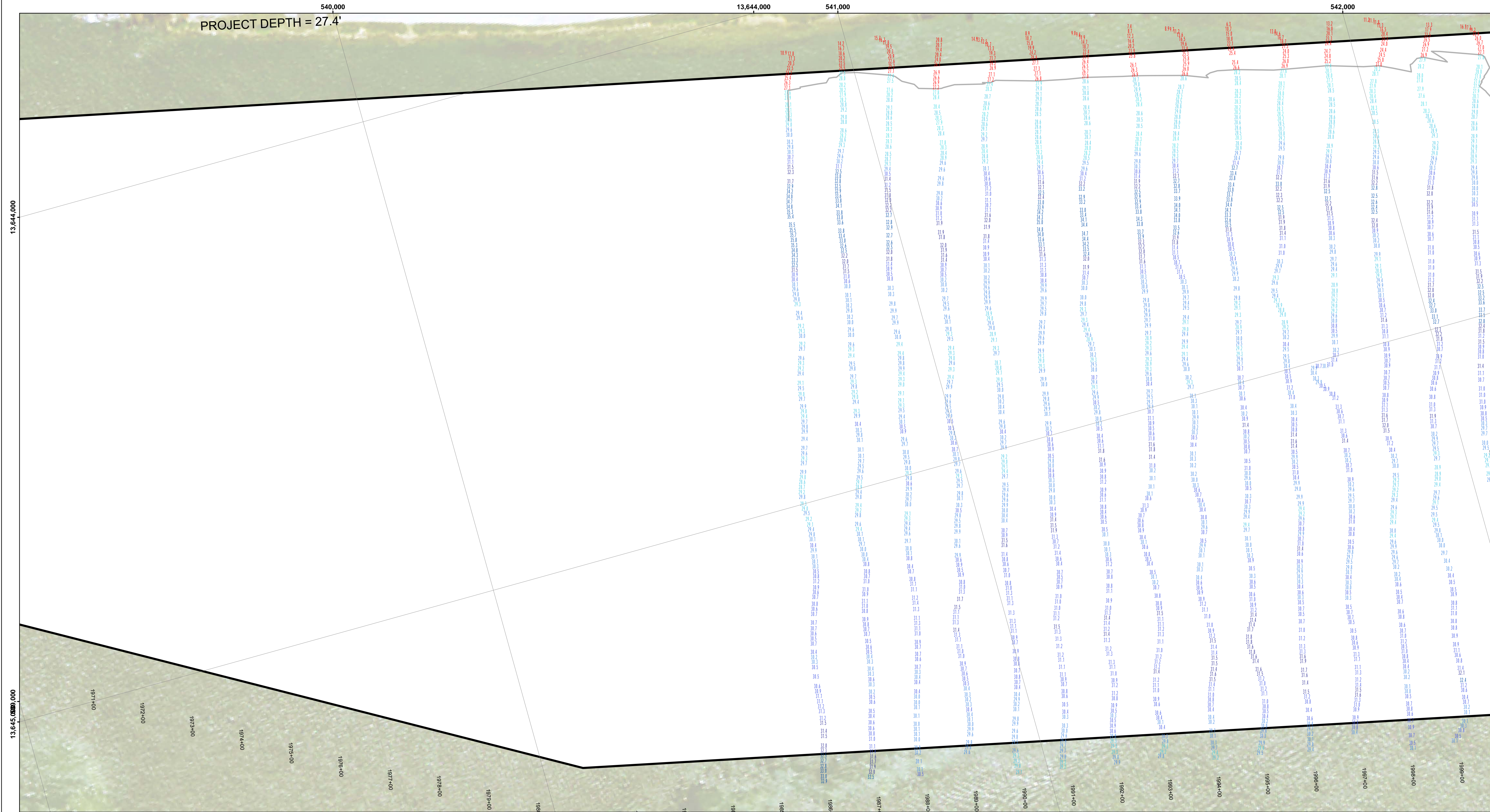
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Submitted By: _____	Surveyed By: _____
Recommended By: _____ Chief, Survey Section	Plotted By: _____
Approved By: _____ Chief, Technical Services	Checked By: _____

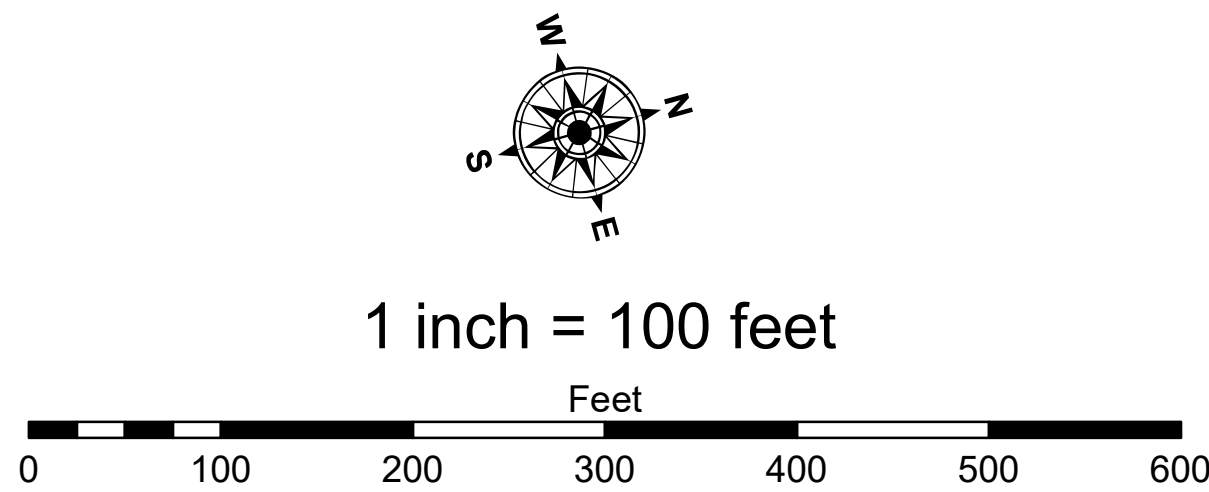
St. Clair River, MI
St Clair River
CR_01_SCR_20220811_CS_MGS
11 August 2022

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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'
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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

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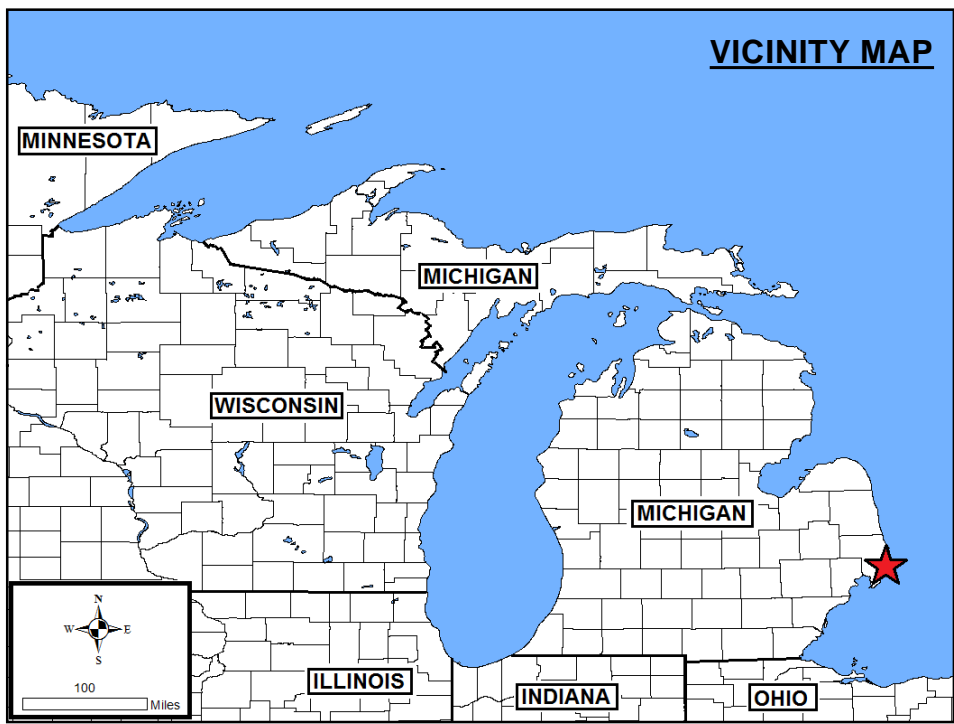
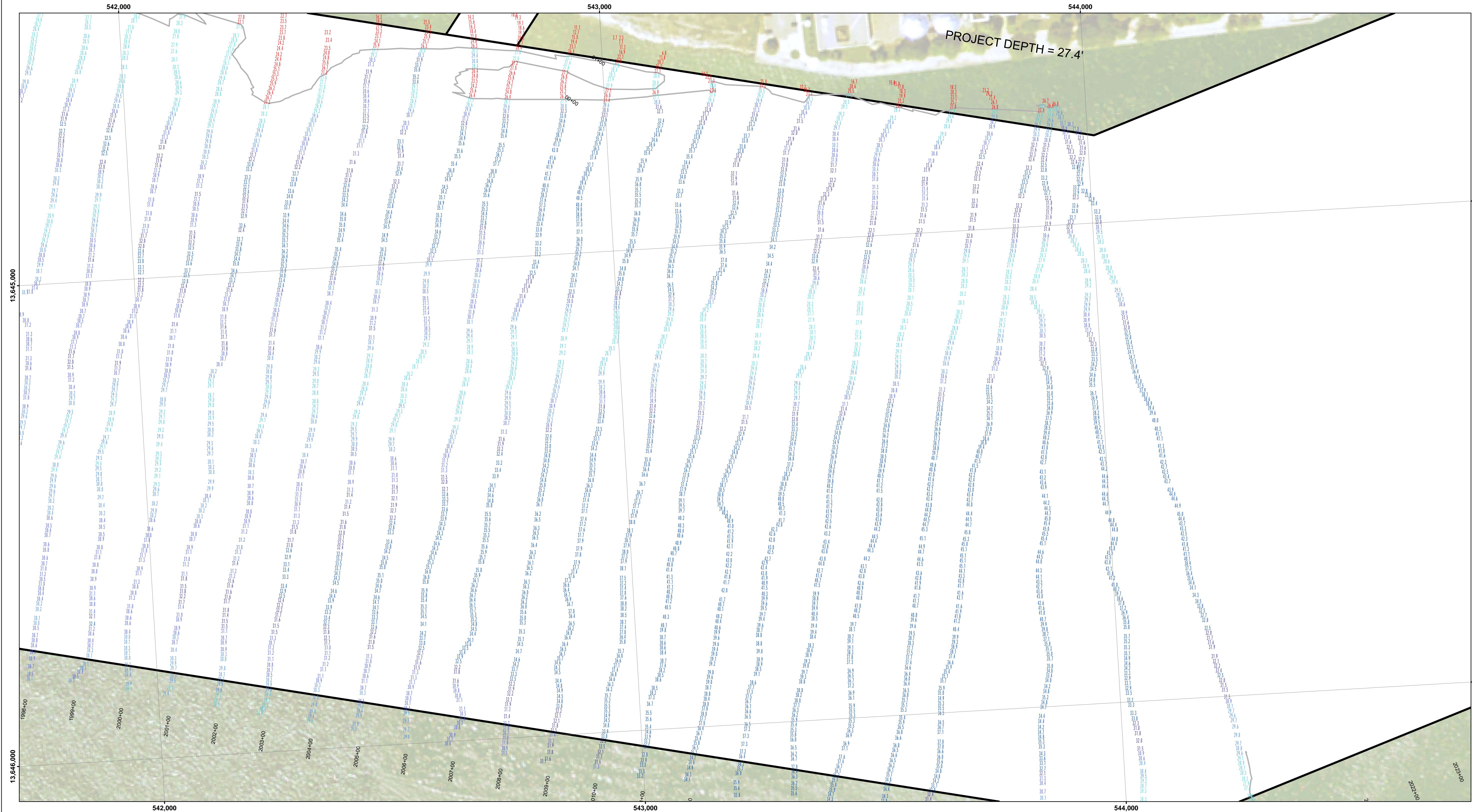
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Recommended:	Plotted By:
Approved:	Checked By:

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

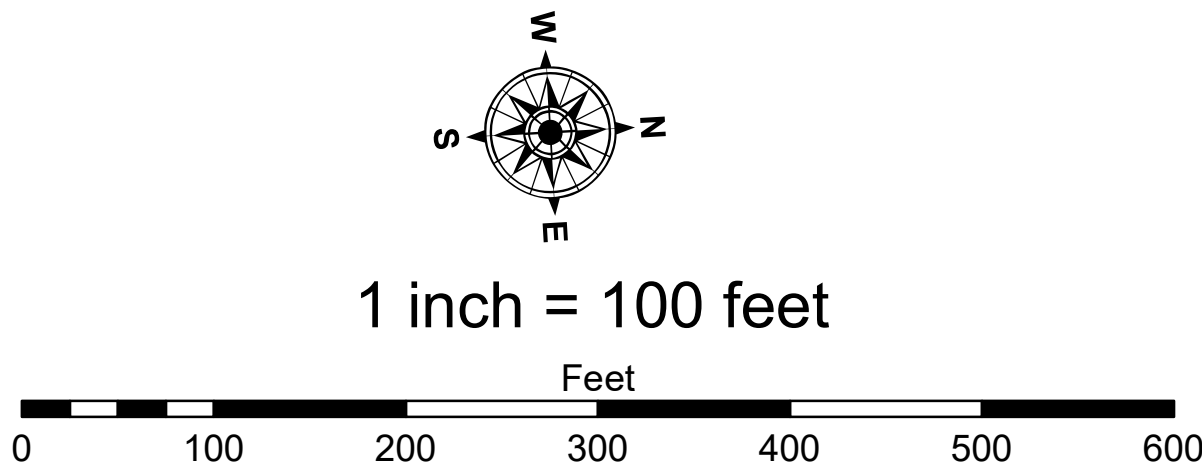
St. Clair River, MI
St. Clair River
CR_01_SCR_20220810_CS_BRS
10 August 2022

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

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
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MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

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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. Clair River, MI
St. Clair River
CR_01_SCR_20220810_CS_BRS
10 August 2022

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