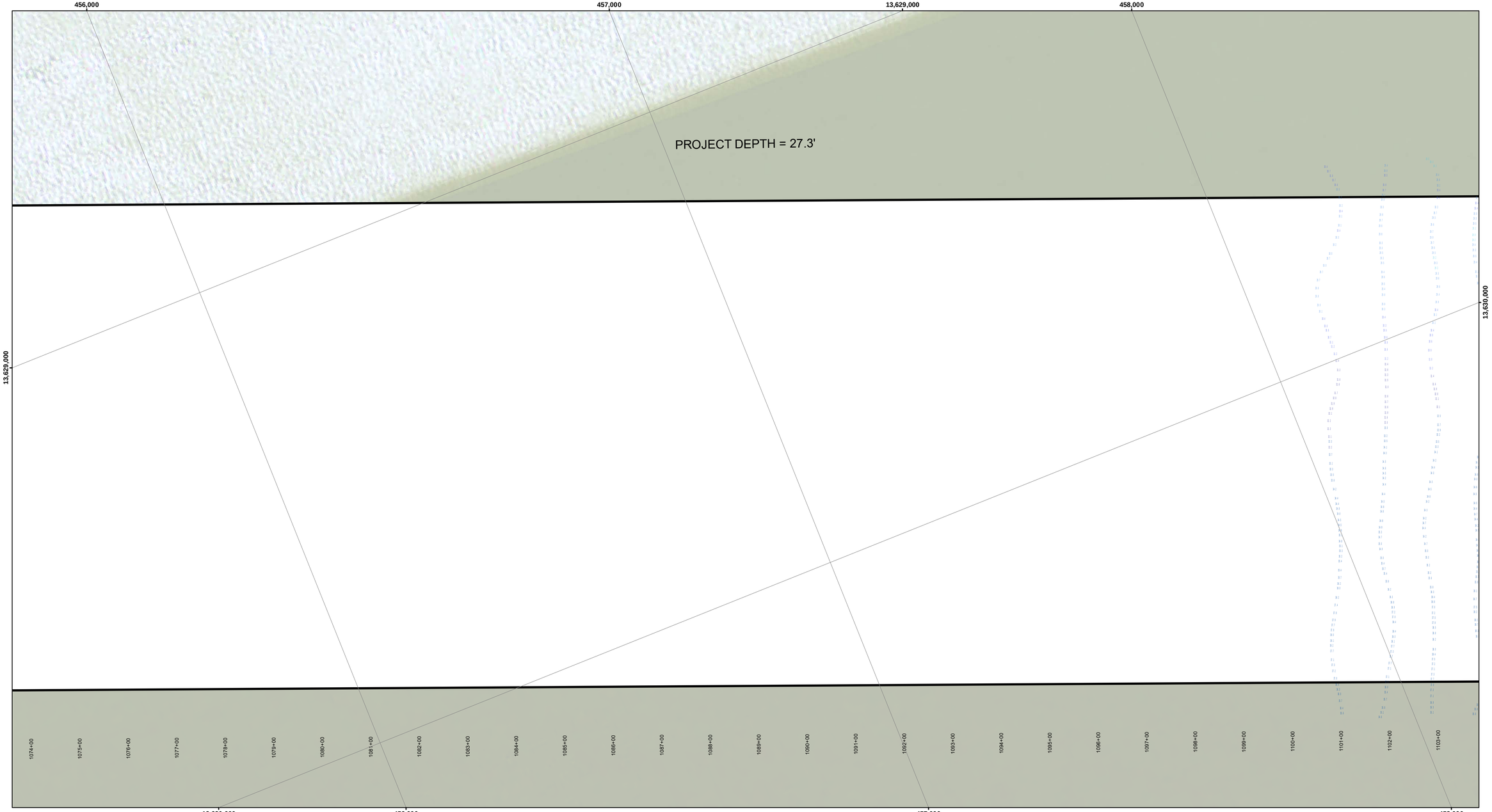
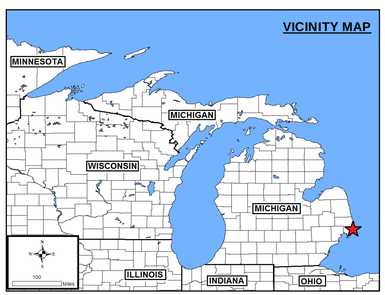






LEGEND

- 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

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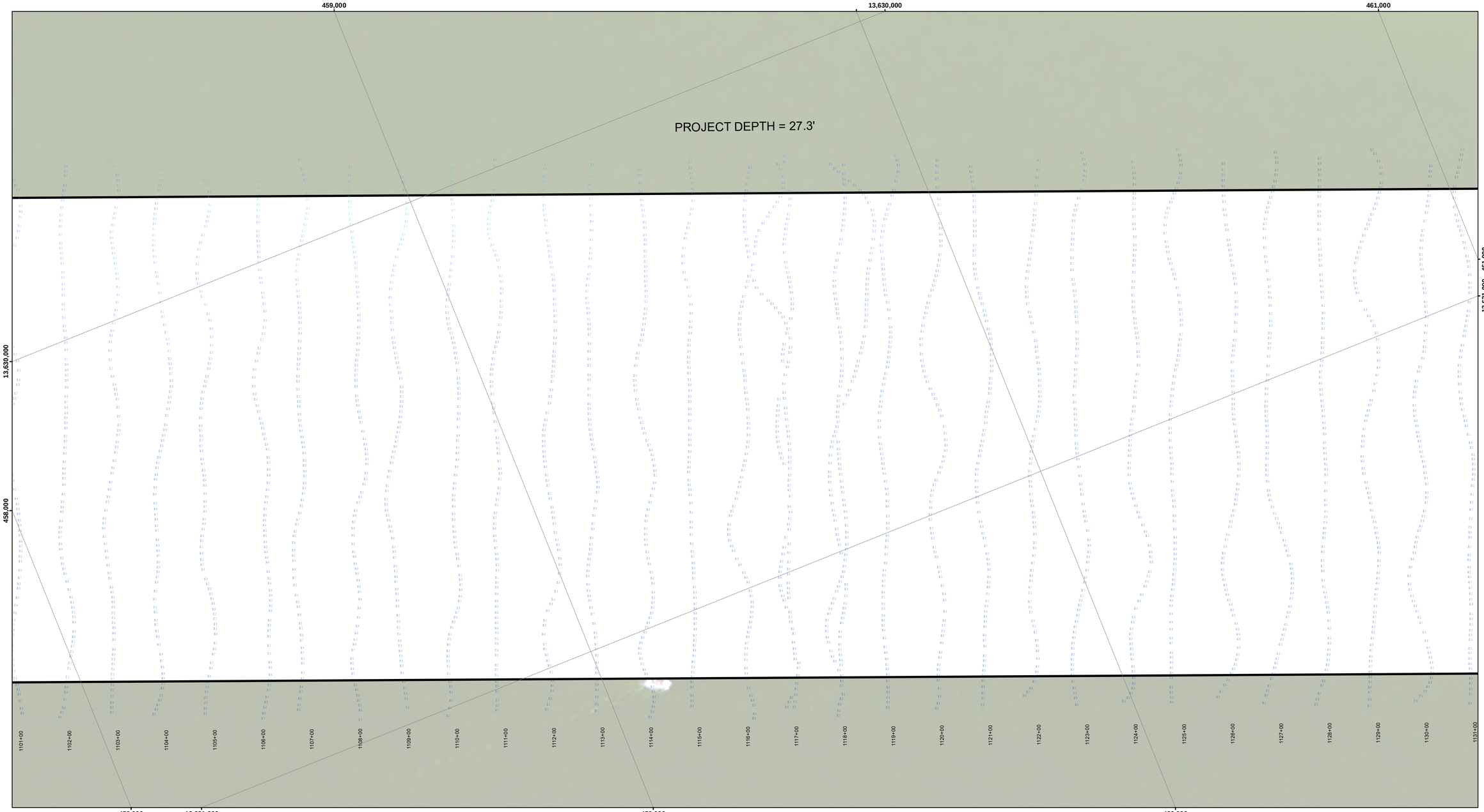
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Plotted By: ____
Checked By: ____

Submitted: ____
Recommended: Chief, Survey Section
Approved: Chief, Technical Services

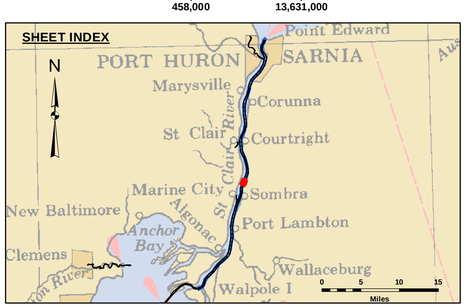
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St Clair River
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31 July 2020

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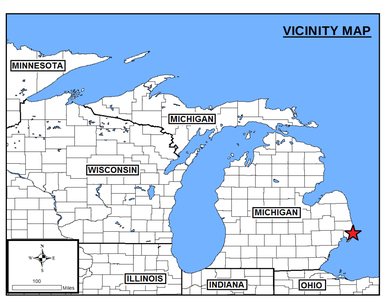
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SHEET INDEX



VICINITY MAP



LEGEND

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

SOUNDING LEGEND

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0 100 200 300 400 500 600

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US Army Corps of Engineers
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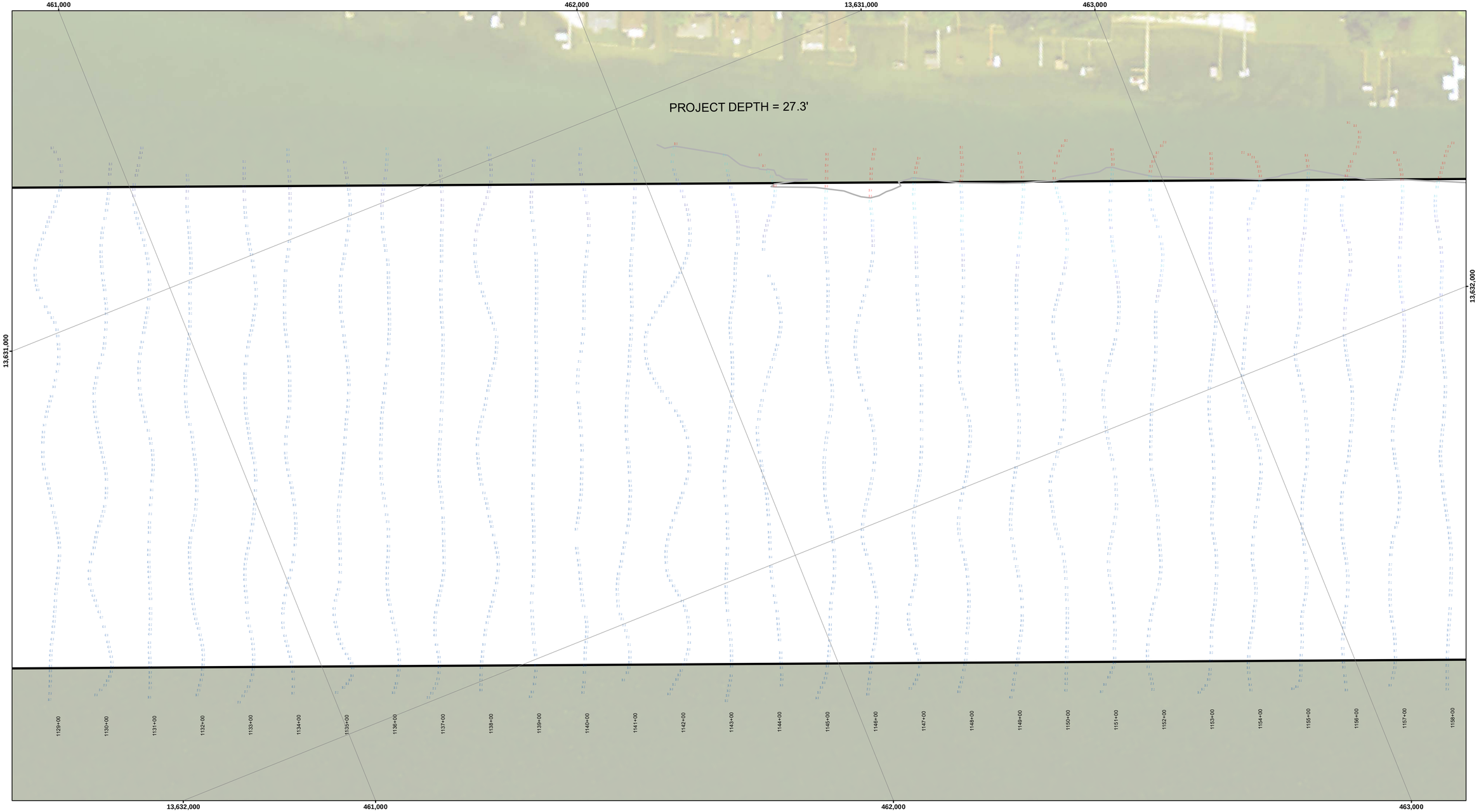
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DETROIT DISTRICT

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

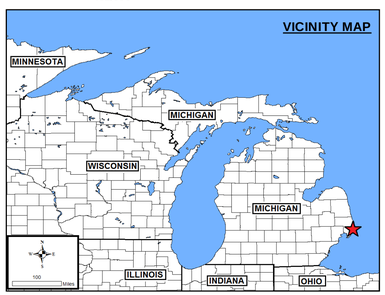
St. Clair River, MI
St Clair River
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LEGEND

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

SOUNDING LEGEND

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DETROIT DISTRICT

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Surveyed By: _____

Plotted By: _____

Recommended: _____
Chief, Survey Section

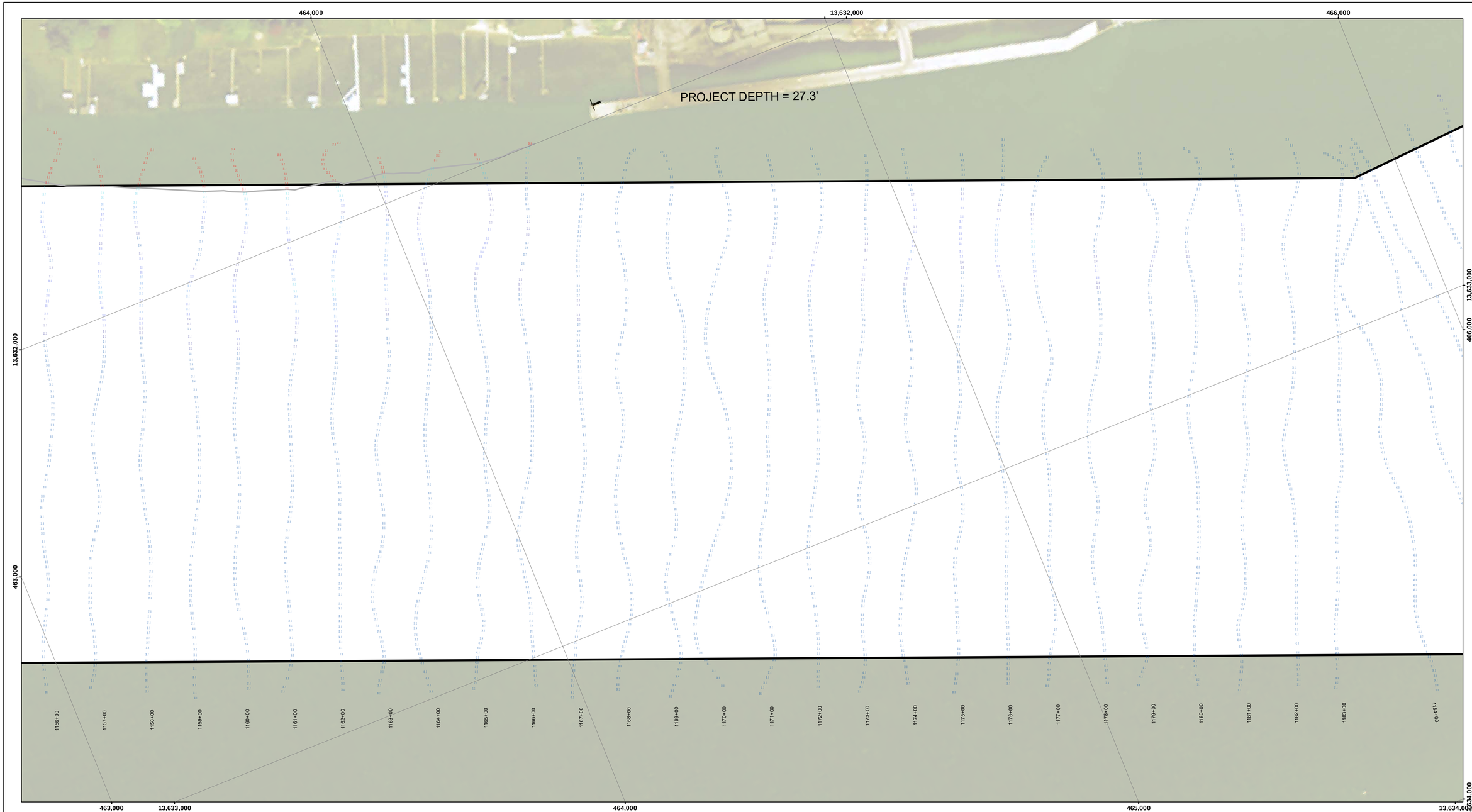
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Approved: _____
Chief, Technical Services

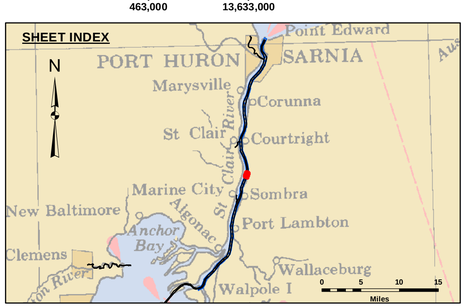
St. Clair River, MI
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31 July 2020

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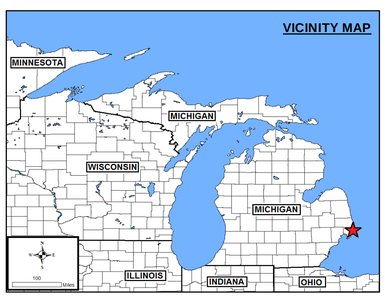
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SHEET INDEX



VICINITY MAP



LEGEND

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

SOUNDING LEGEND

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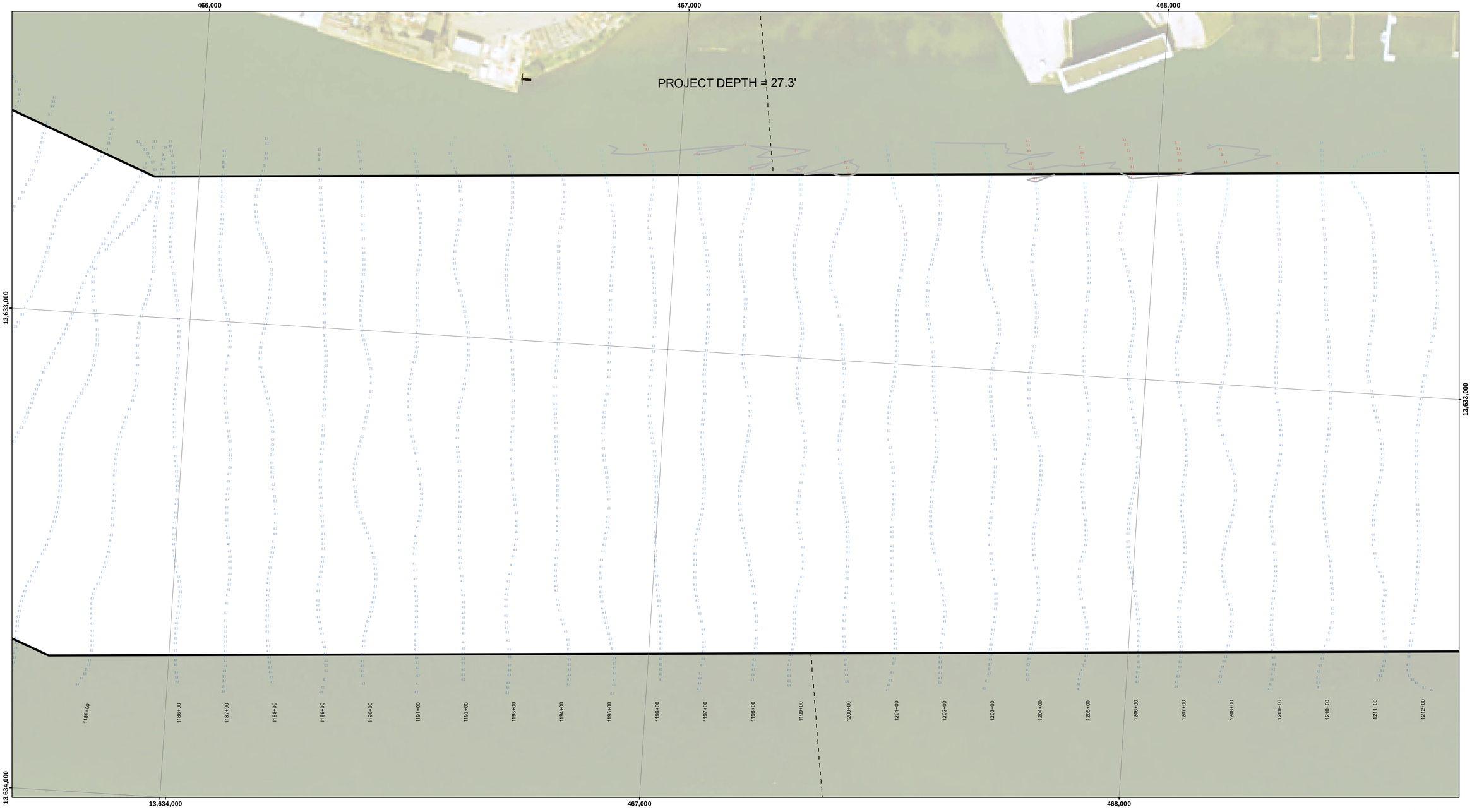
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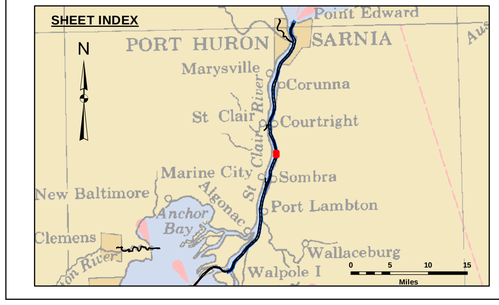
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Recommended:	Plotted By: ___	Chief, Survey Section
Approved:	Checked By: ___	Chief, Technical Services

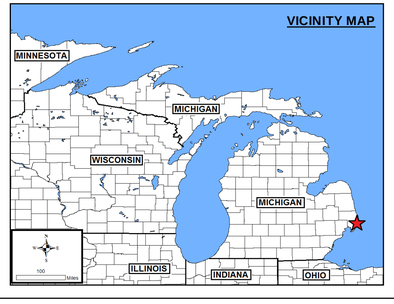
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LEGEND

- Cable Submarine
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SOUNDING LEGEND

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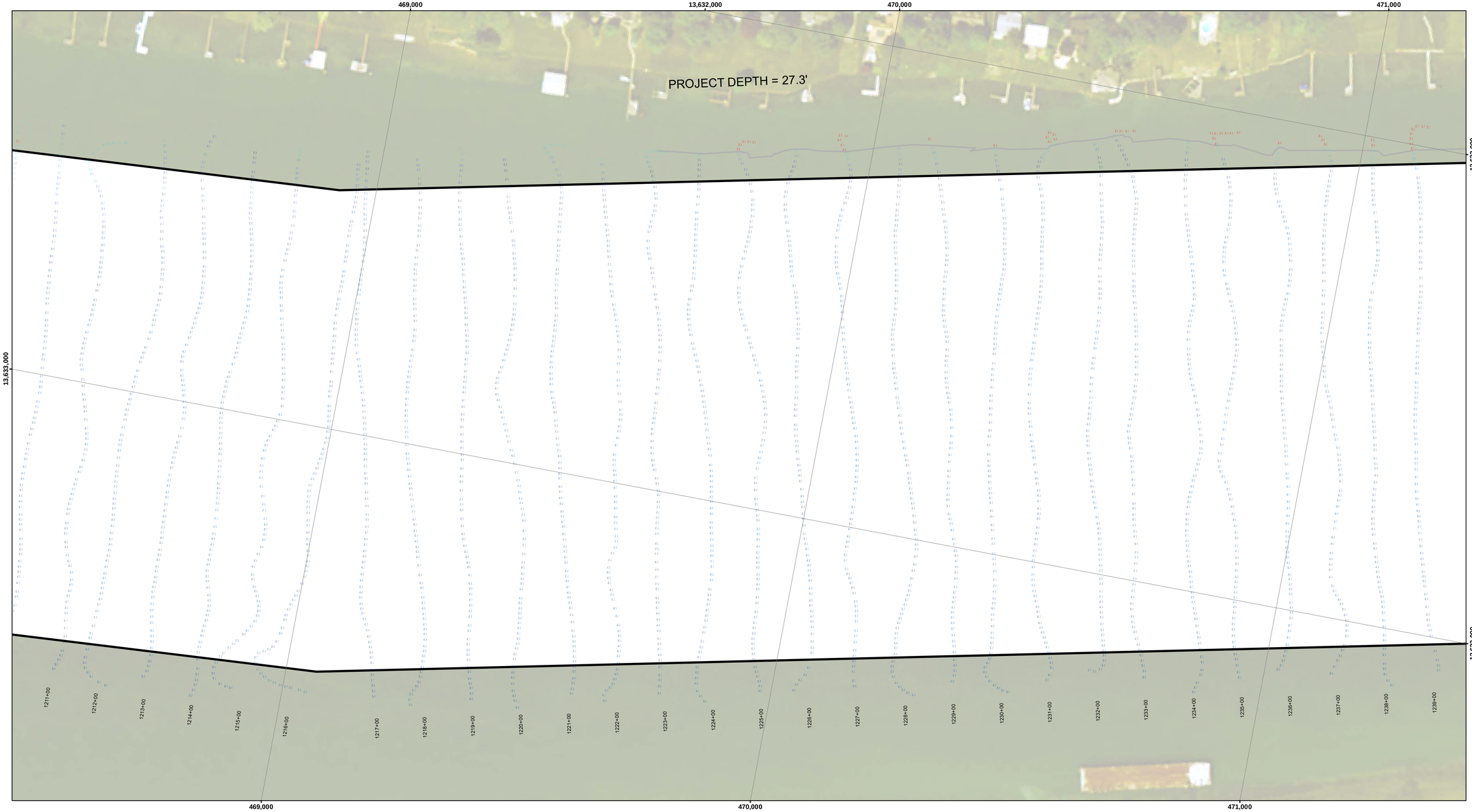
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DETROIT DISTRICT

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

St. Clair River, MI
St Clair River
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DETROIT DISTRICT

Submitted: ____

Surveyed By: ____

Plotted By: ____

Recommended: Chief, Survey Section

Checked By: ____

Approved: Chief, Technical Services

St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
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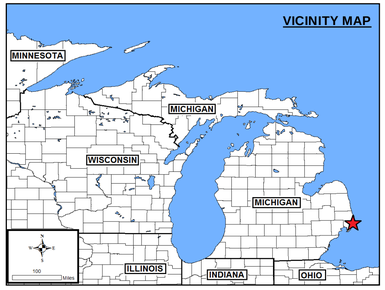
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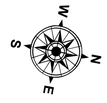


VICINITY MAP



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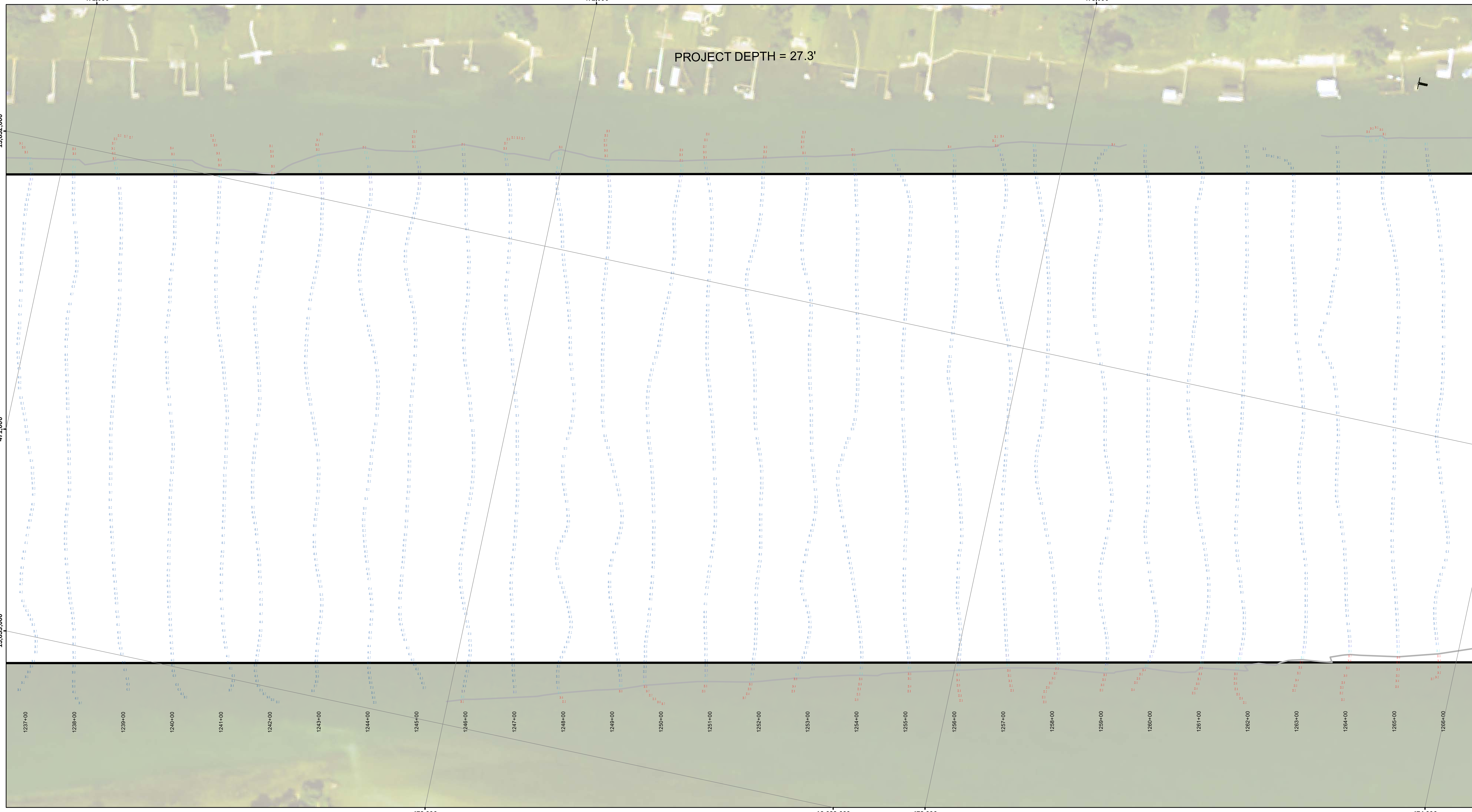
HORIZONTAL GRID DATUM BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983, U.S. SURVEY FOOT.

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



US Army Corps of Engineers
District: CELRE

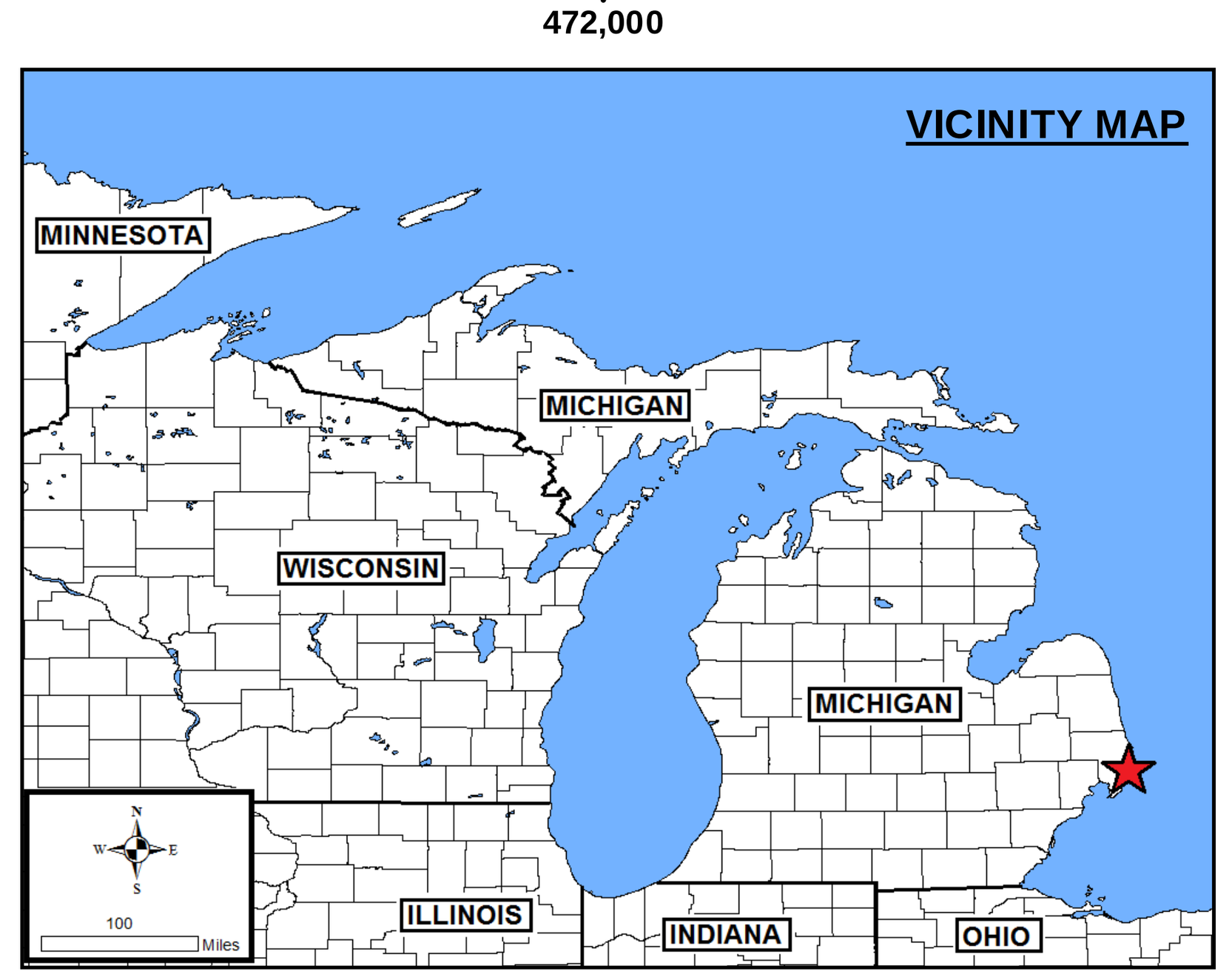
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DETROIT DISTRICT

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





LEGEND

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

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
- PROJECT DEPTH
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- PROJECT DEPTH +2'
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- PROJECT DEPTH +5'

1 inch = 100 feet

Feet: 0 100 200 300 400 500 600

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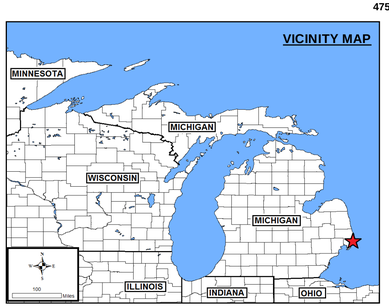
St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
31 July 2020

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4.1-20191105







LEGEND

- Cable Submarine
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US Army Corps of Engineers
District: CELRE

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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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Plotted By: ____
Checked By: ____

Submitted: ____

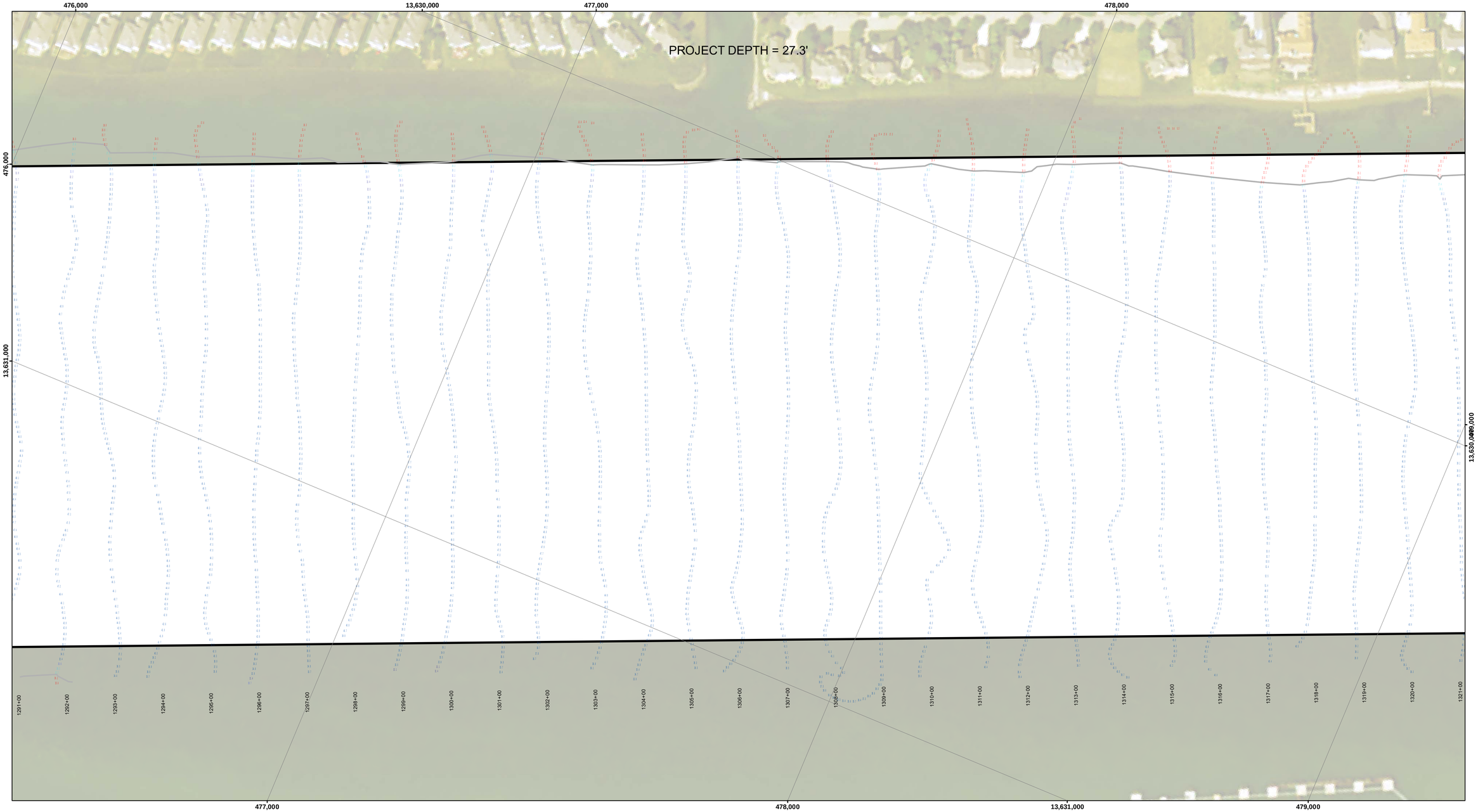
Recommended: Chief, Survey Section

Approved: Chief, Technical Services

St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
31 July 2020

Sheet Reference Number
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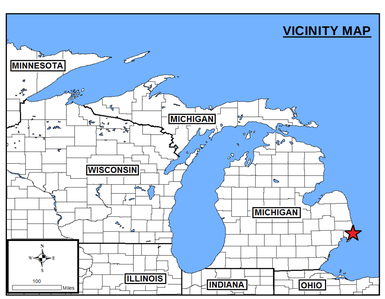
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SHEET INDEX



VICINITY MAP



LEGEND

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

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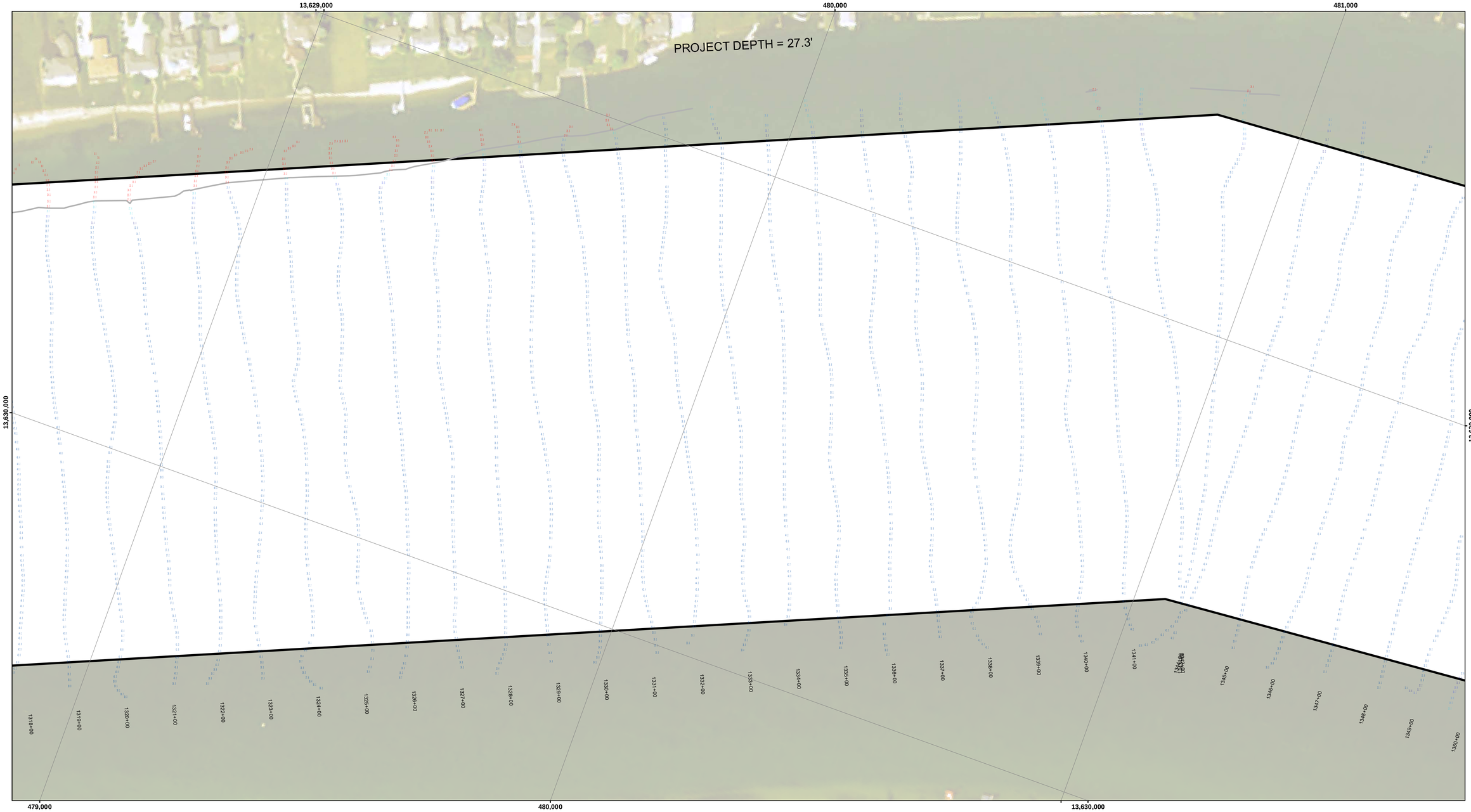
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DETROIT DISTRICT

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

St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
31 July 2020

Sheet Reference Number
38 of 69

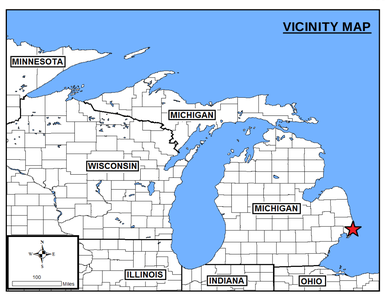
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SHEET INDEX



VICINITY MAP



LEGEND

- Cable Submarine
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- Contour Lines
- Channel Limits

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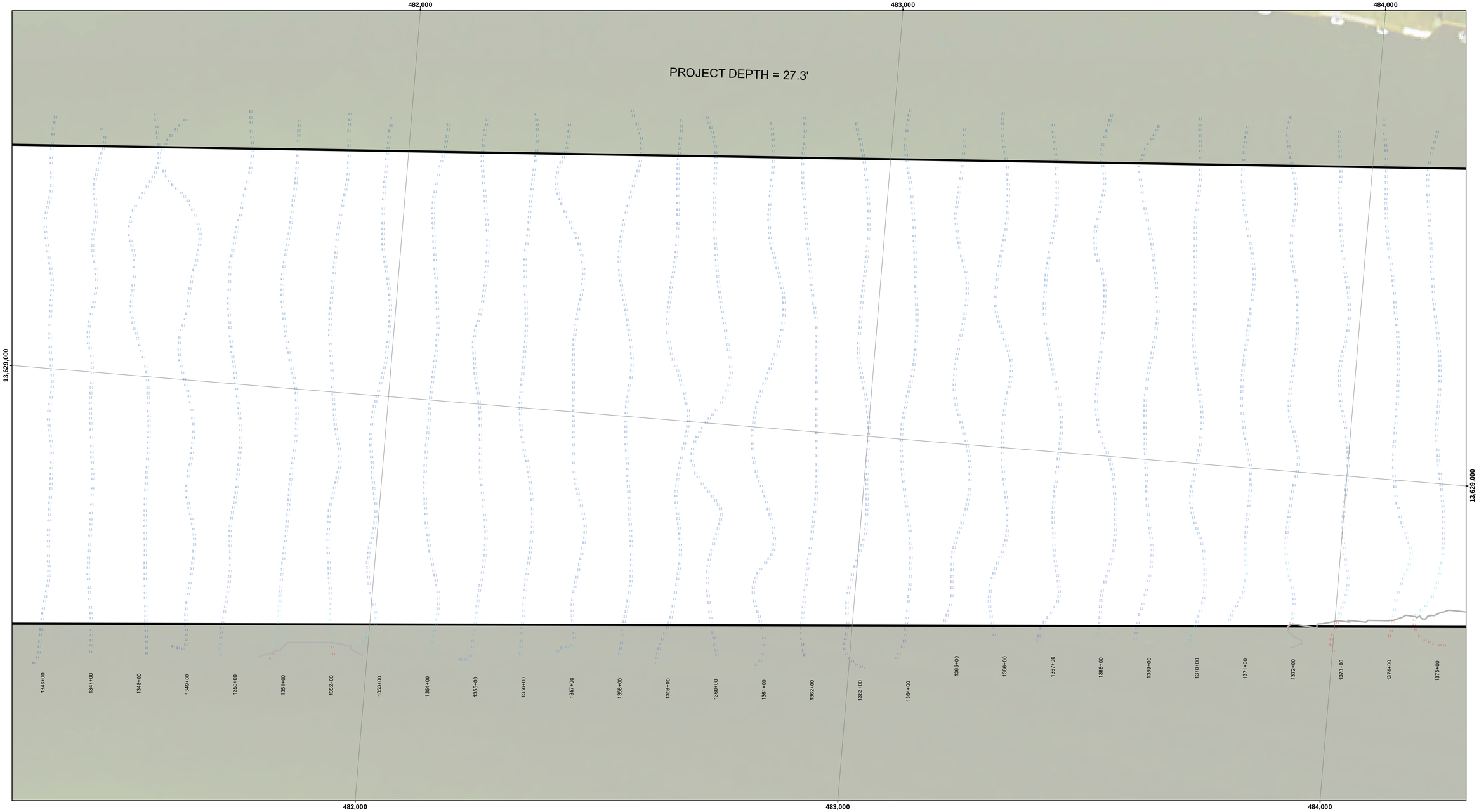
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Surveyed By: ____			
Plotted By: ____			
Checked By: ____			
Submitted:	Recommended: Chief, Survey Section	Approved: Chief, Technical Services	

St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
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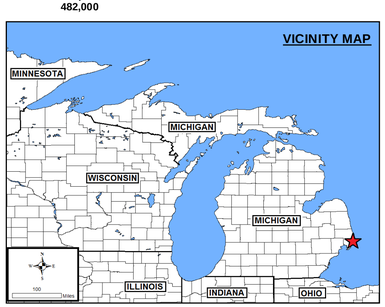
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SHEET INDEX



VICINITY MAP



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- Cable Submarine
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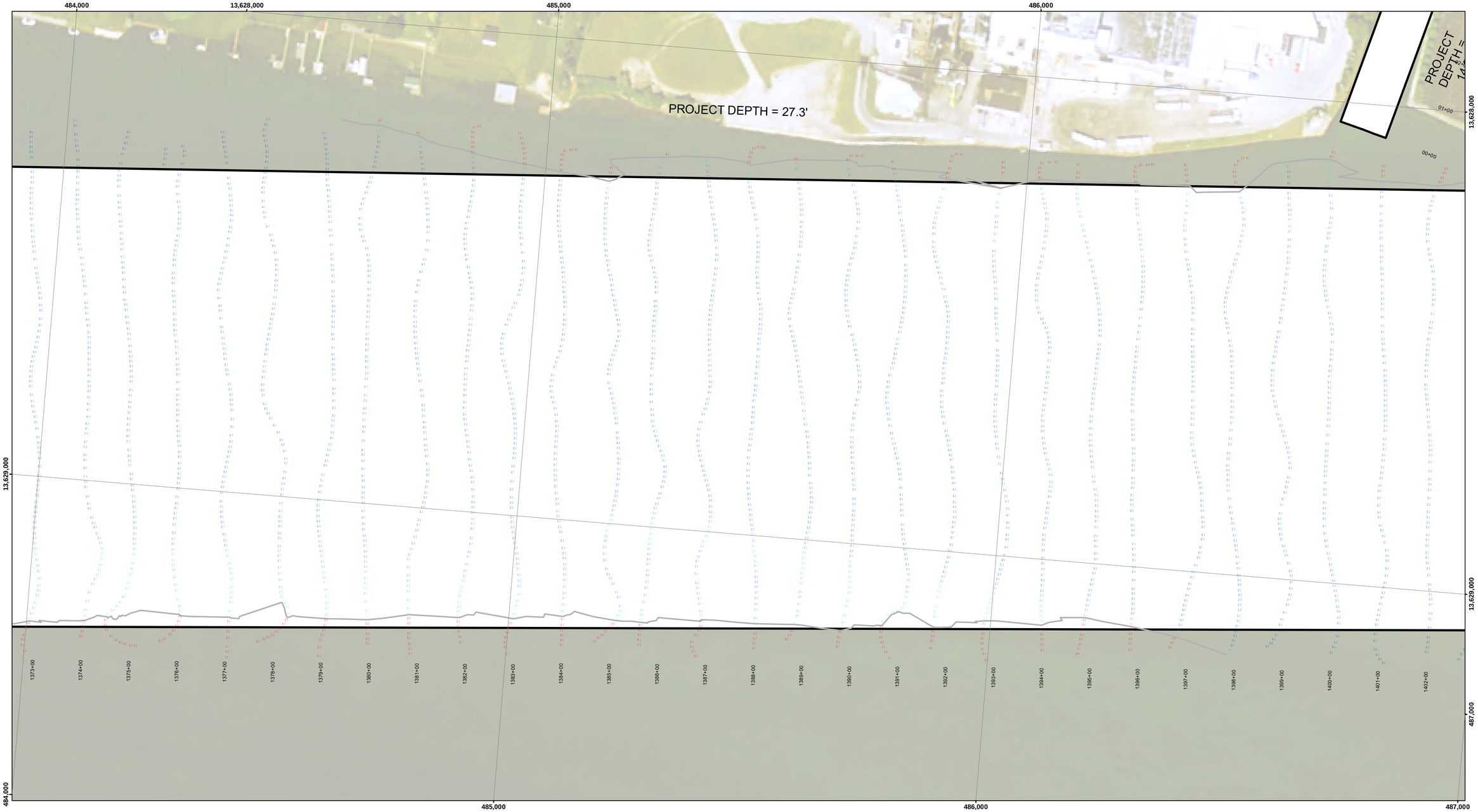
U.S. ARMY CORPPS OF ENGINEERS
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Recommended:	Chief, Survey Section	Plotted By:	____
Approved:	Chief, Technical Services	Checked By:	____

St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
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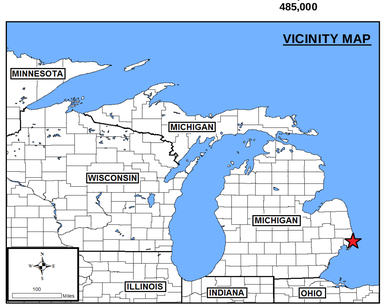
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SHEET INDEX



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U.S. ARMY CORPRS OF ENGINEERS
DETROIT DISTRICT

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Submitted: _____

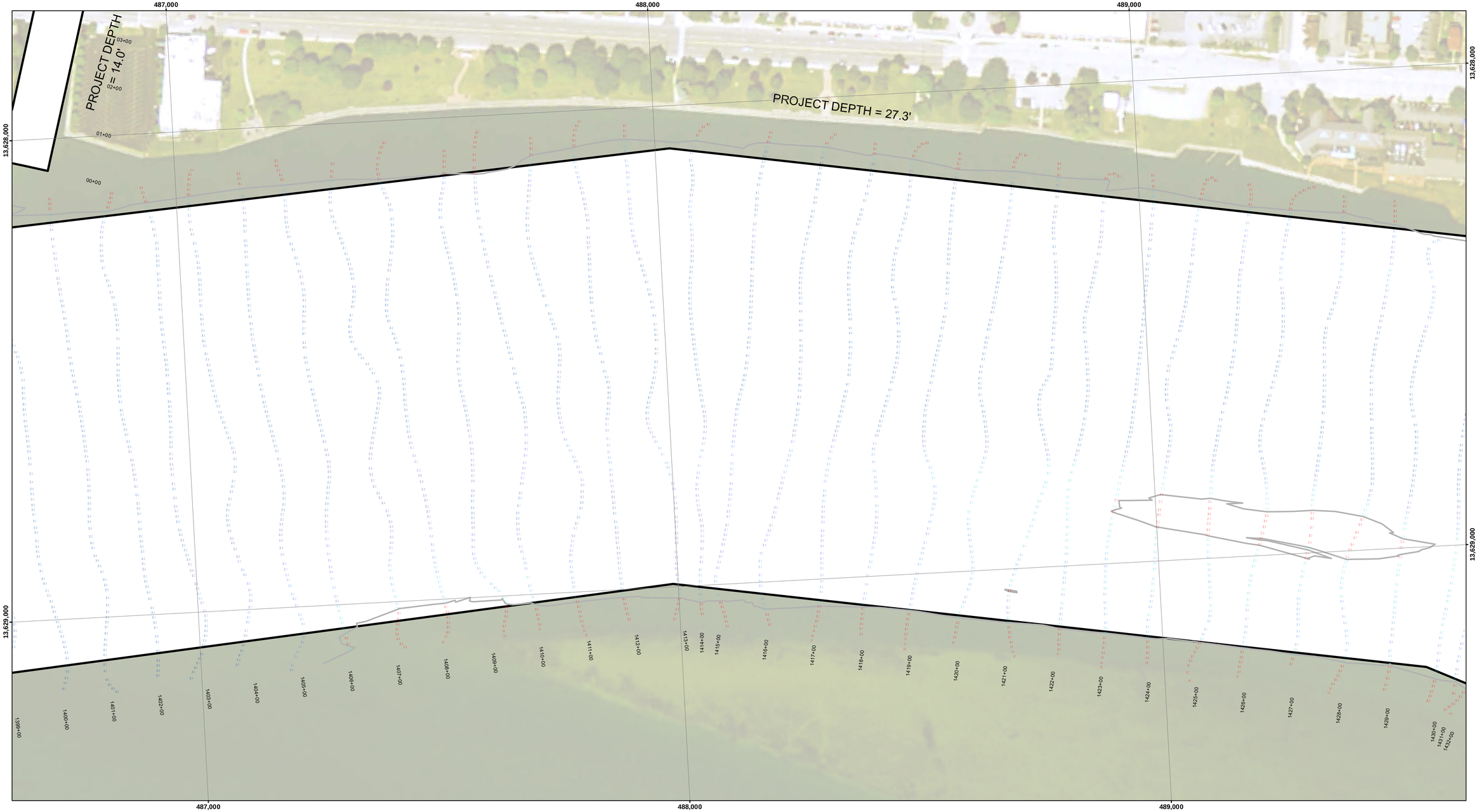
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Chief, Survey Section

Approved: _____
Chief, Technical Services

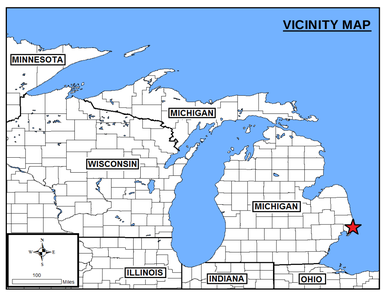
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LEGEND

- 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

Feet

0 100 200 300 400 500 600

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SOFTWARE: HYPACK

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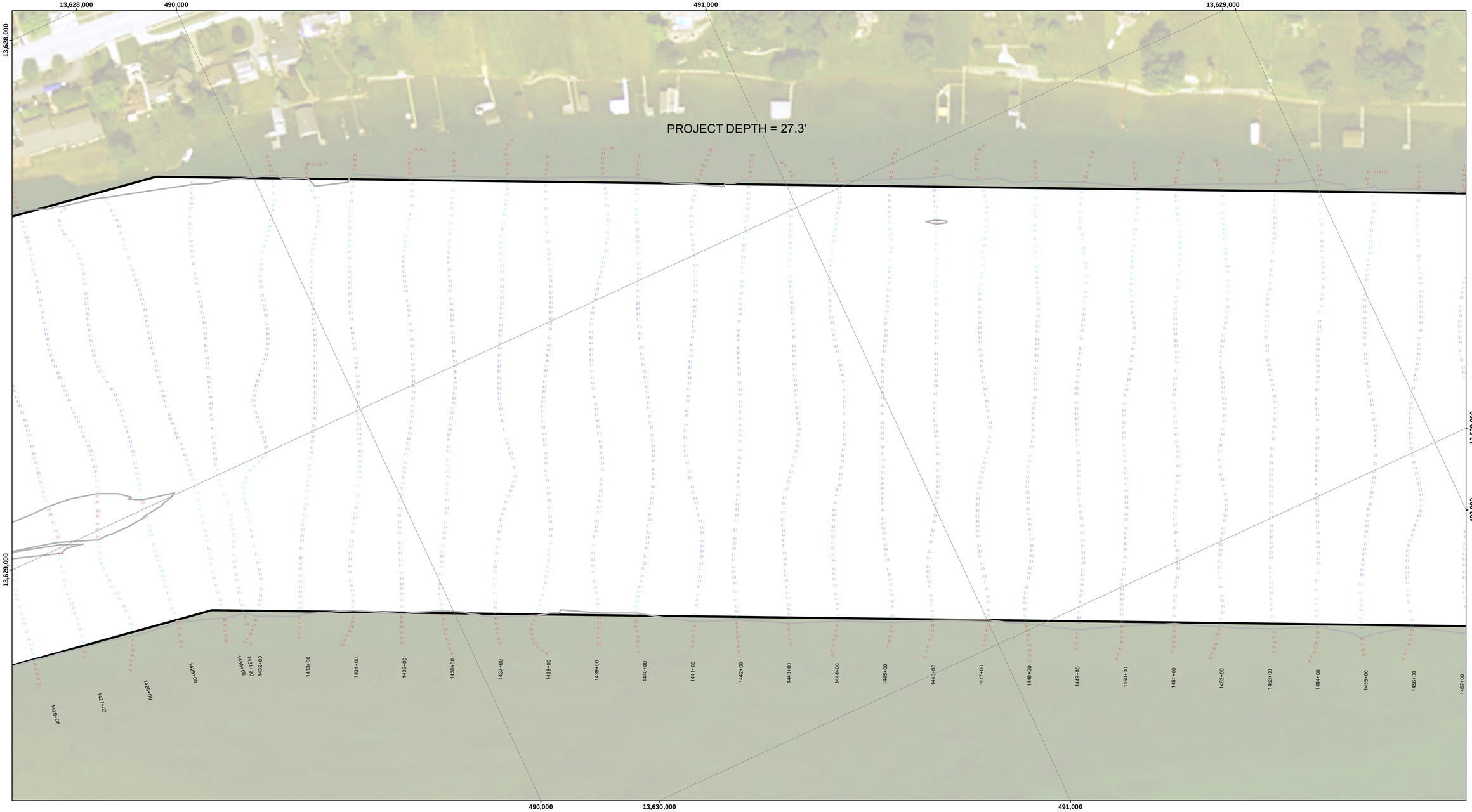
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Plotted By: ____
Checked By: ____

Submitted: _____
Recommended: Chief, Survey Section
Approved: Chief, Technical Services

St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
31 July 2020

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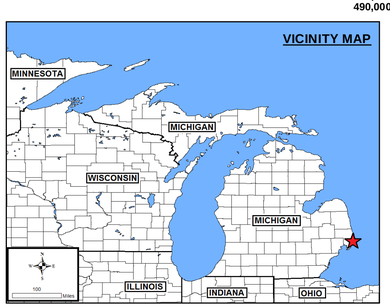
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VICINITY MAP



LEGEND

- Cable Submarine
- Cable Overhead
- Placement Area
- Beacon, General
- Contour Lines
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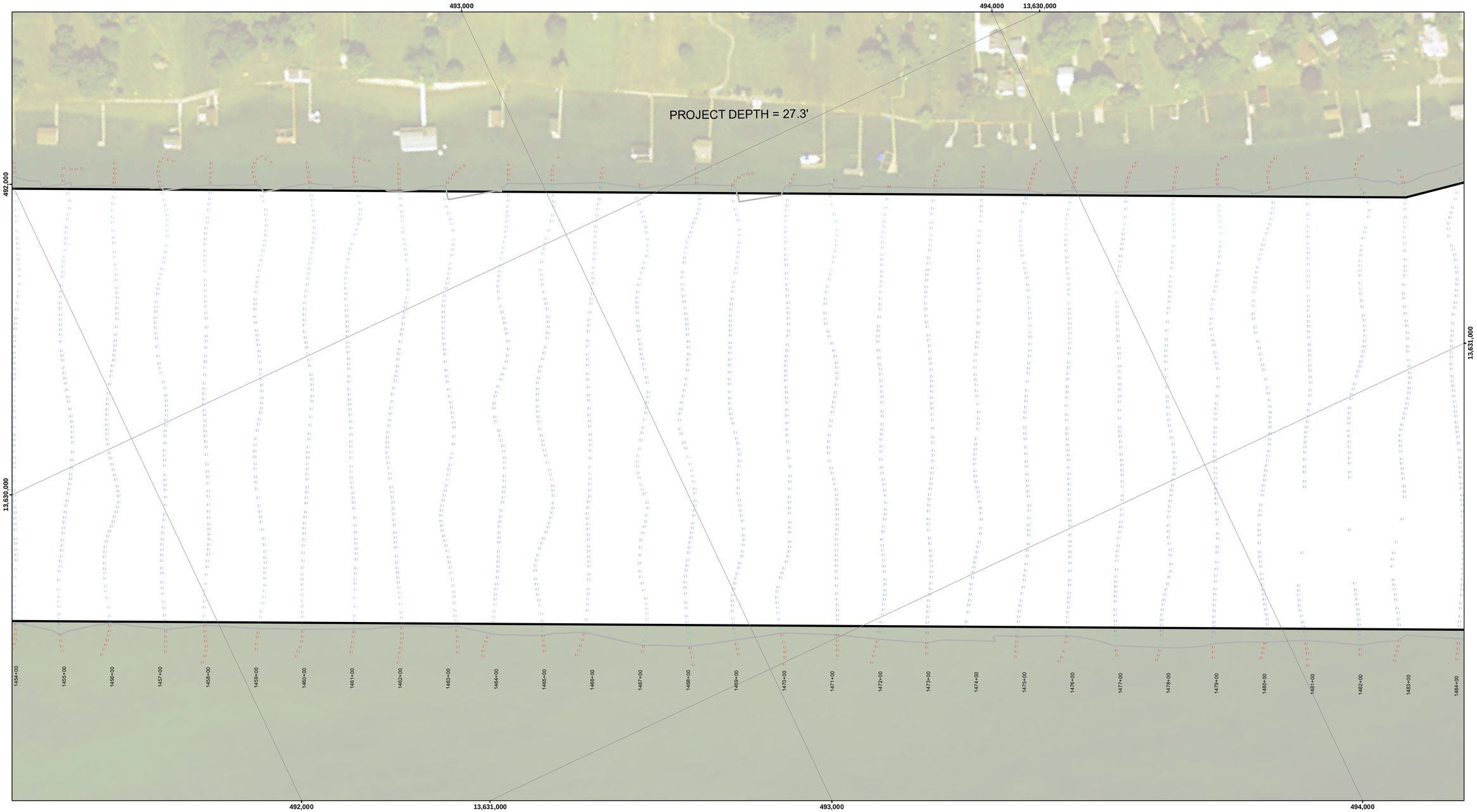
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DETROIT DISTRICT

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

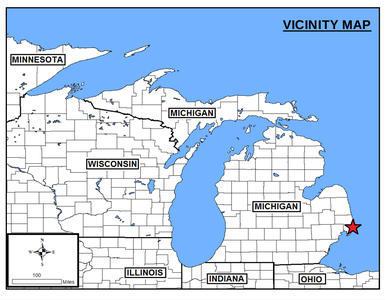
St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
31 July 2020

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LEGEND

- Cable Submarine
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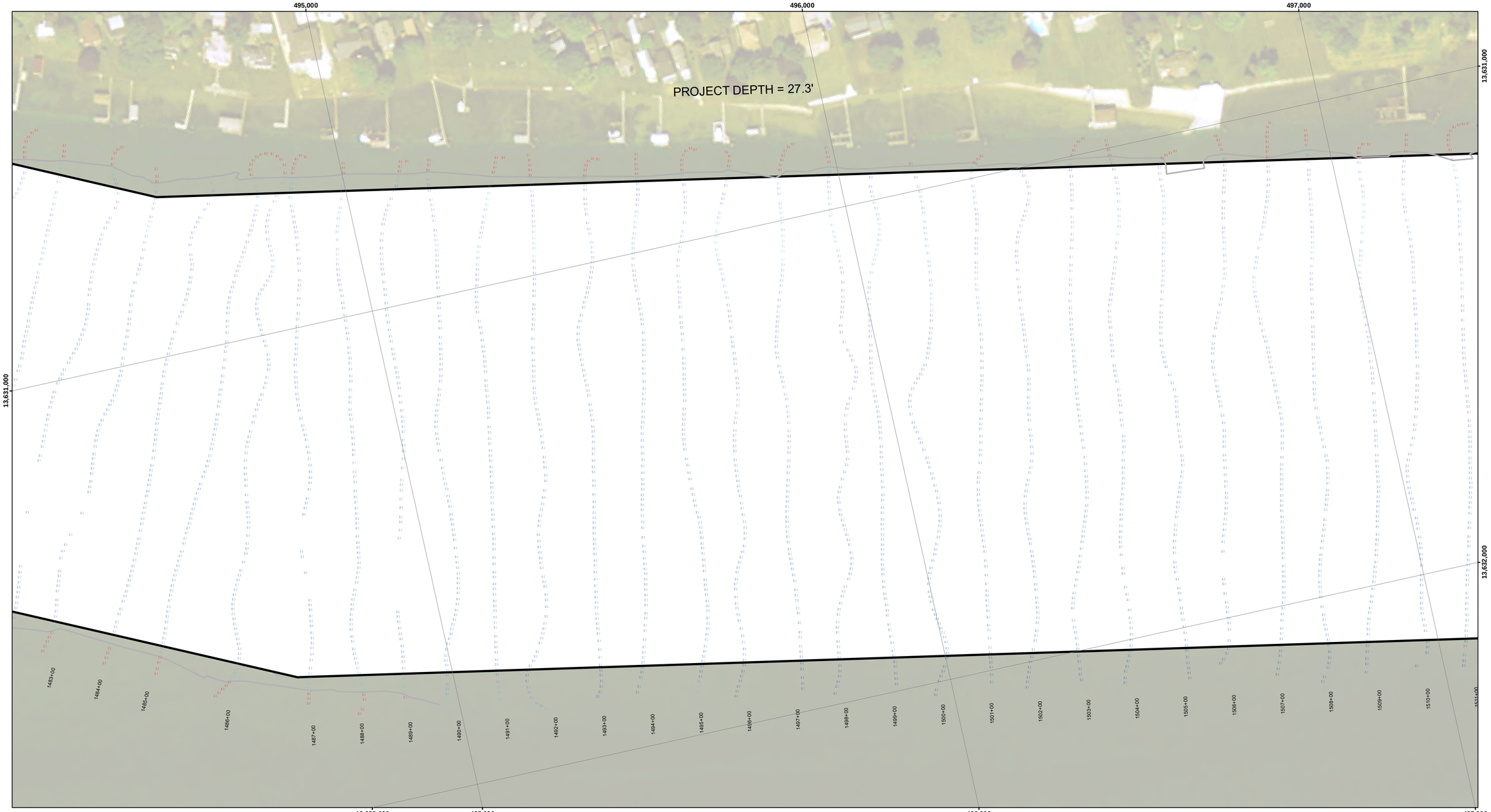
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Checked By: ____

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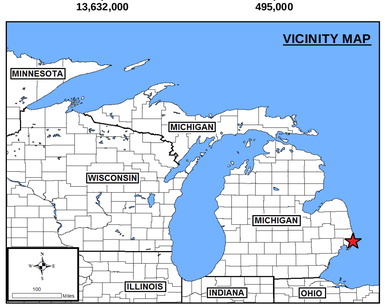
St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
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LEGEND

- Cable Submarine
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SOUNDING LEGEND

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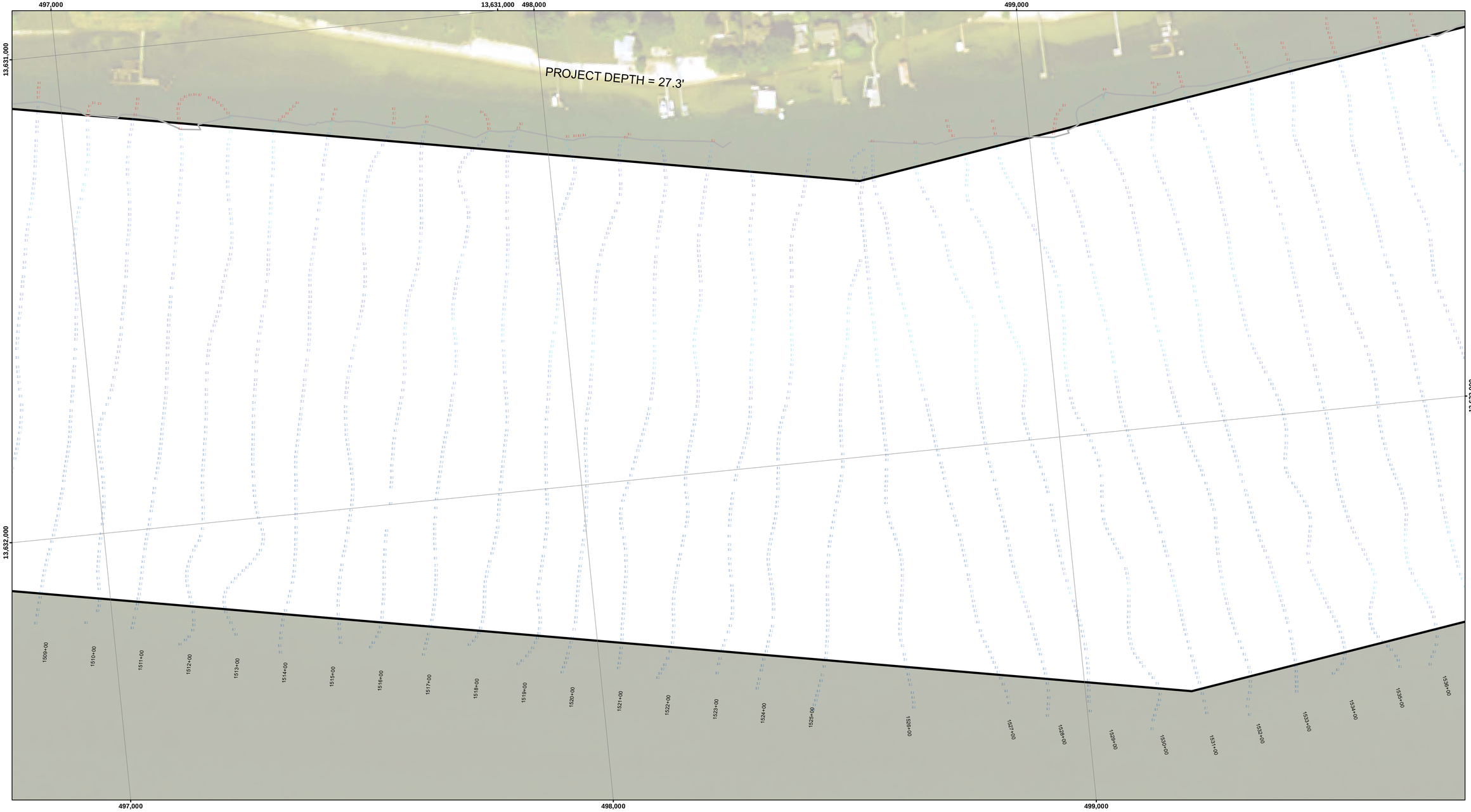
Recommended: _____ Chief, Survey Section

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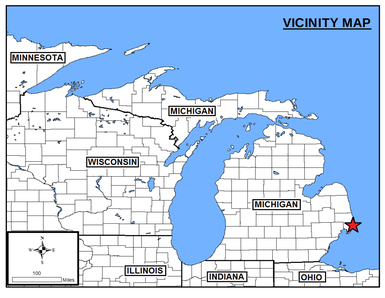
St. Clair River, MI
St Clair River
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LEGEND

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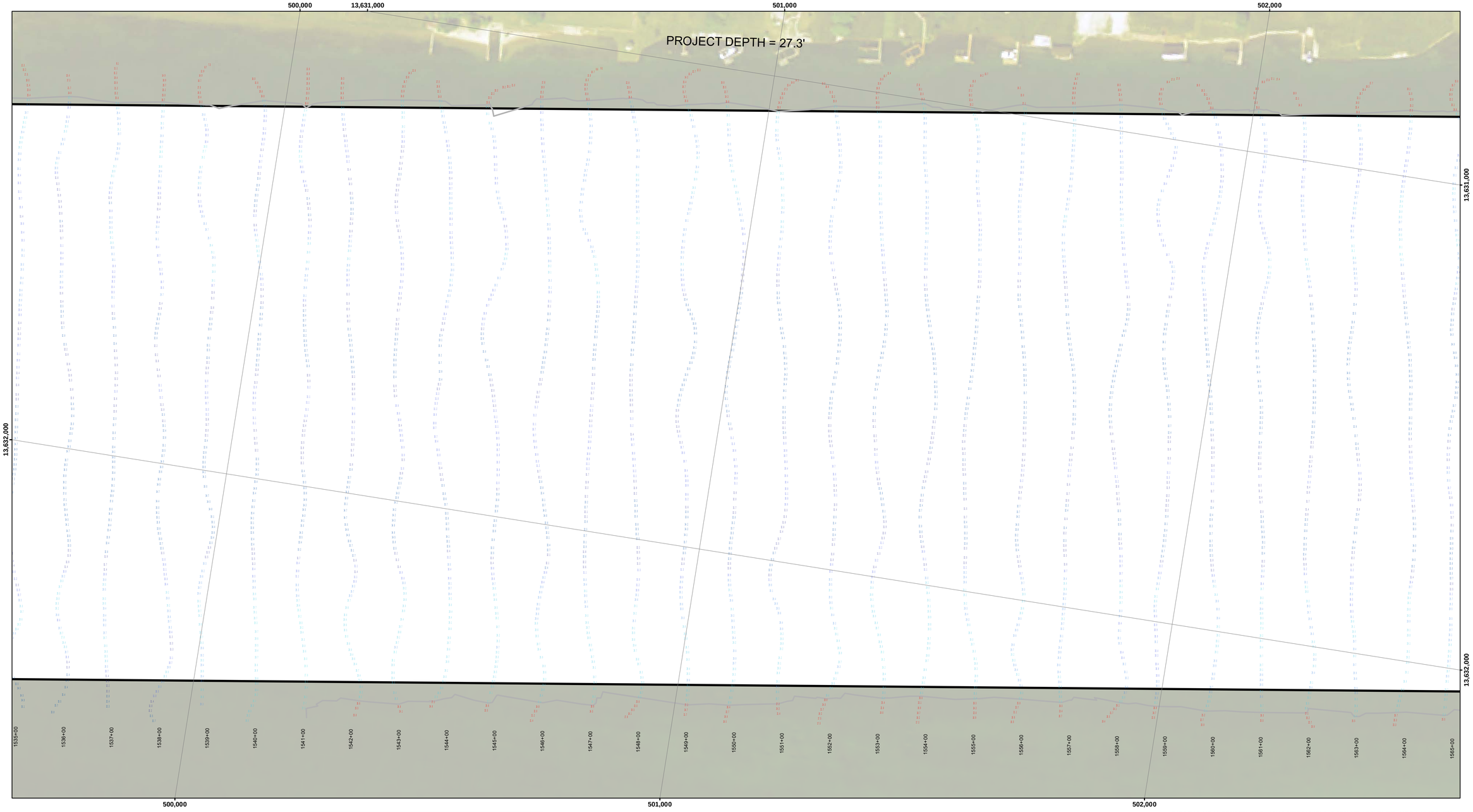
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DETROIT DISTRICT

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

St. Clair River, MI
St Clair River
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Approved: Chief, Technical Services

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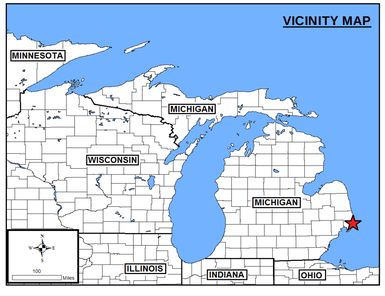
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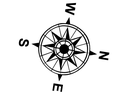


VICINITY MAP



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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/SHOAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.

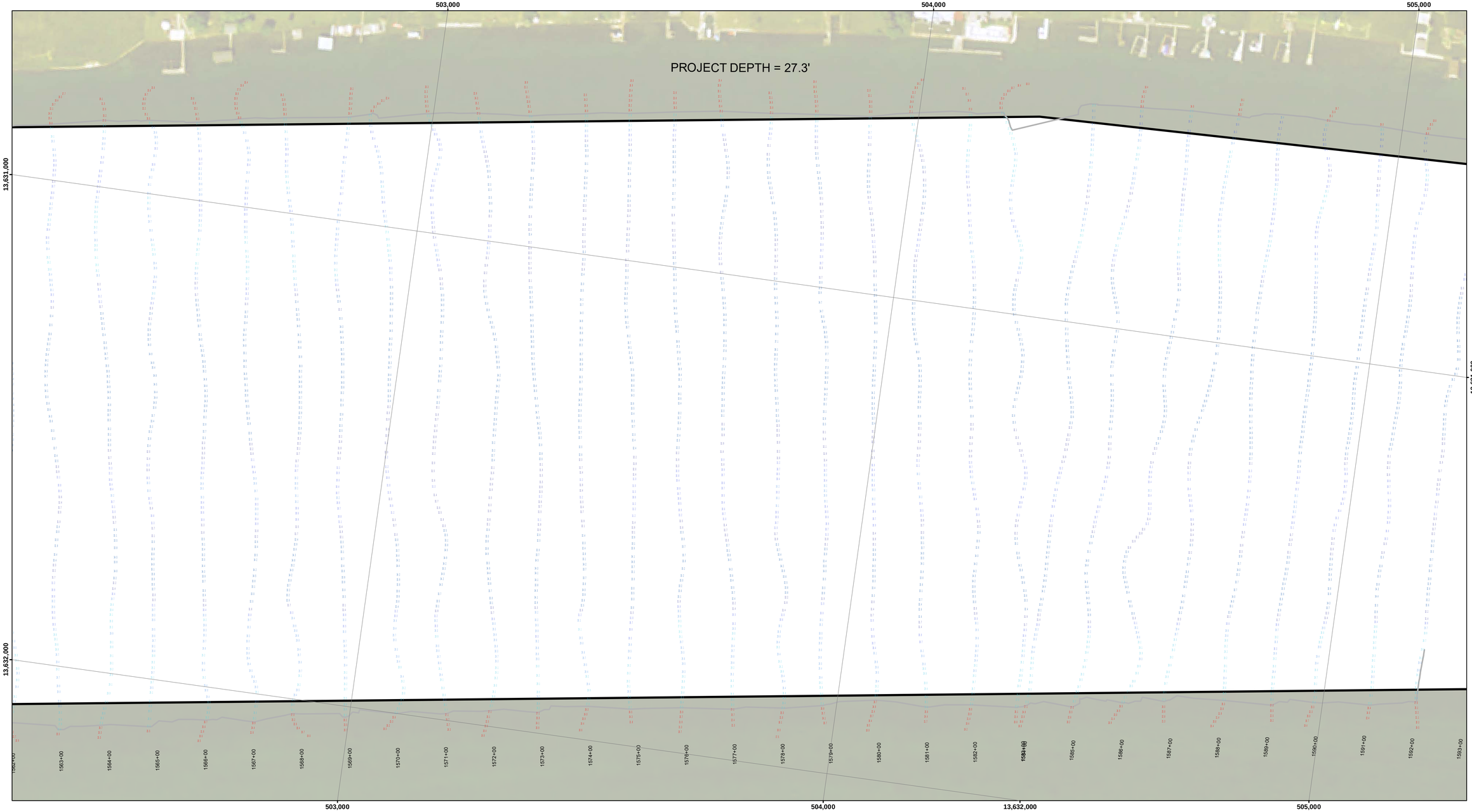
HORIZONTAL GRID DATUM BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983, U.S. SURVEY FOOT.

POSITIONING:APPLANIX POS-MV4 W/ VRS/RTK OR MARINESTAR GNSS.
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R3SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

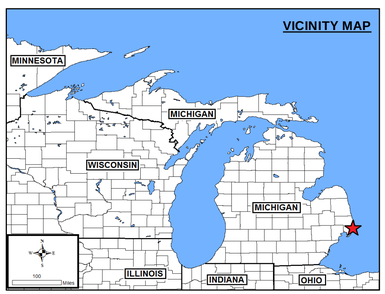
ALL SOUNDINGS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). L.W.D. AS INDICATED. PROJECT DEPTHS FOR THIS RIVER RANGE FROM 27.1' TO 30.0'

TIDE VALUES ARE DERRIVED 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'

N W S E

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

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

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US Army Corps of Engineers
District: CELRE

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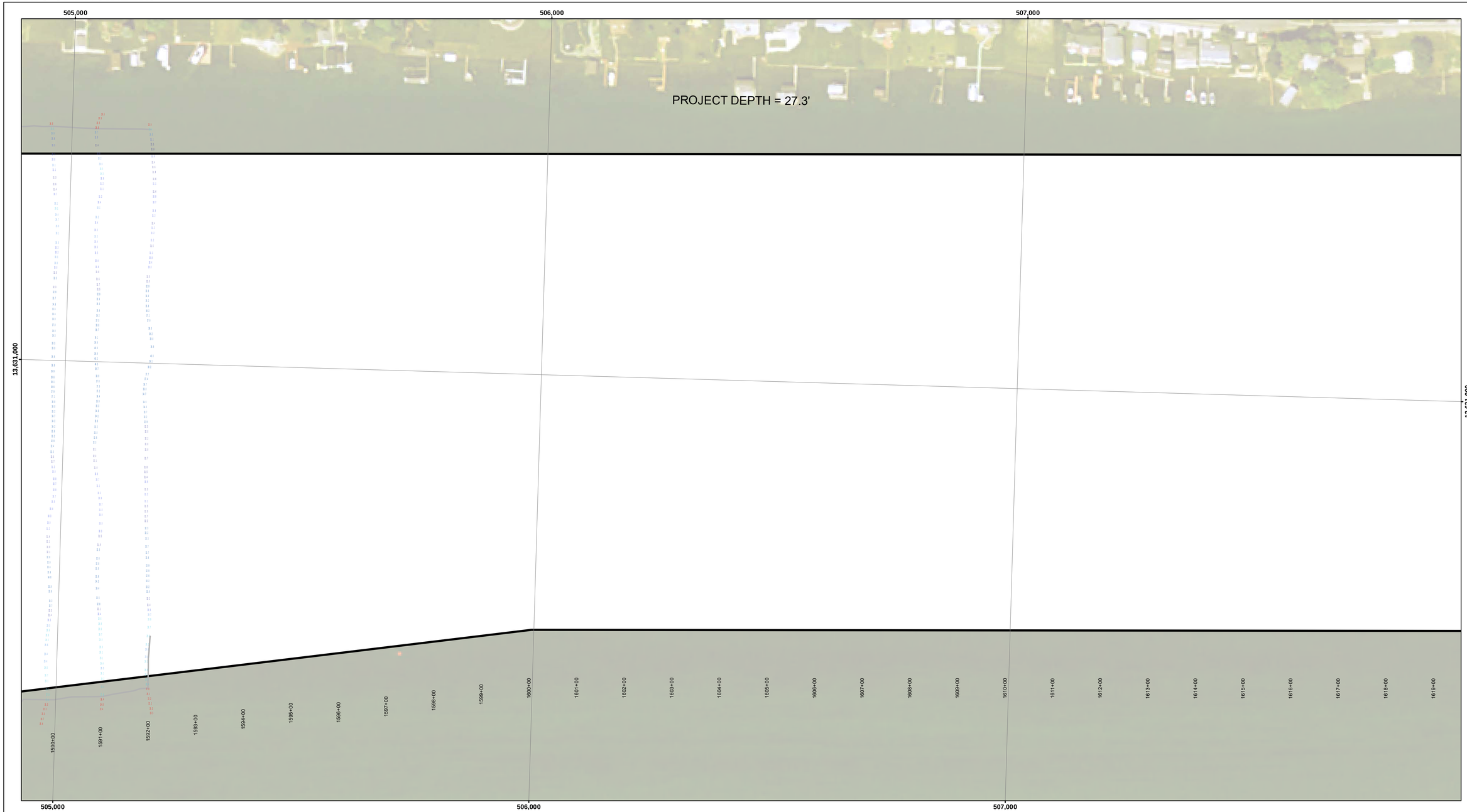
Surveyed By: ____
Plotted By: ____
Checked By: ____

Submitted: _____
Recommended: Chief, Survey Section
Approved: Chief, Technical Services

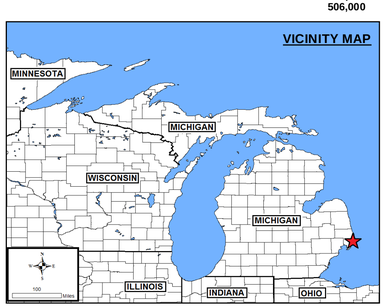
St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
31 July 2020

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Revison Number:
4.1-20191105







LEGEND

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

SOUNDING LEGEND

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DETROIT DISTRICT

Surveyed By: ___	Plotted By: ___	Checked By: ___

Submitted: ___
Recommended: Chief, Survey Section
Approved: Chief, Technical Services

St. Clair River, MI
St Clair River
CR_01_SCR_20200731_CS
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