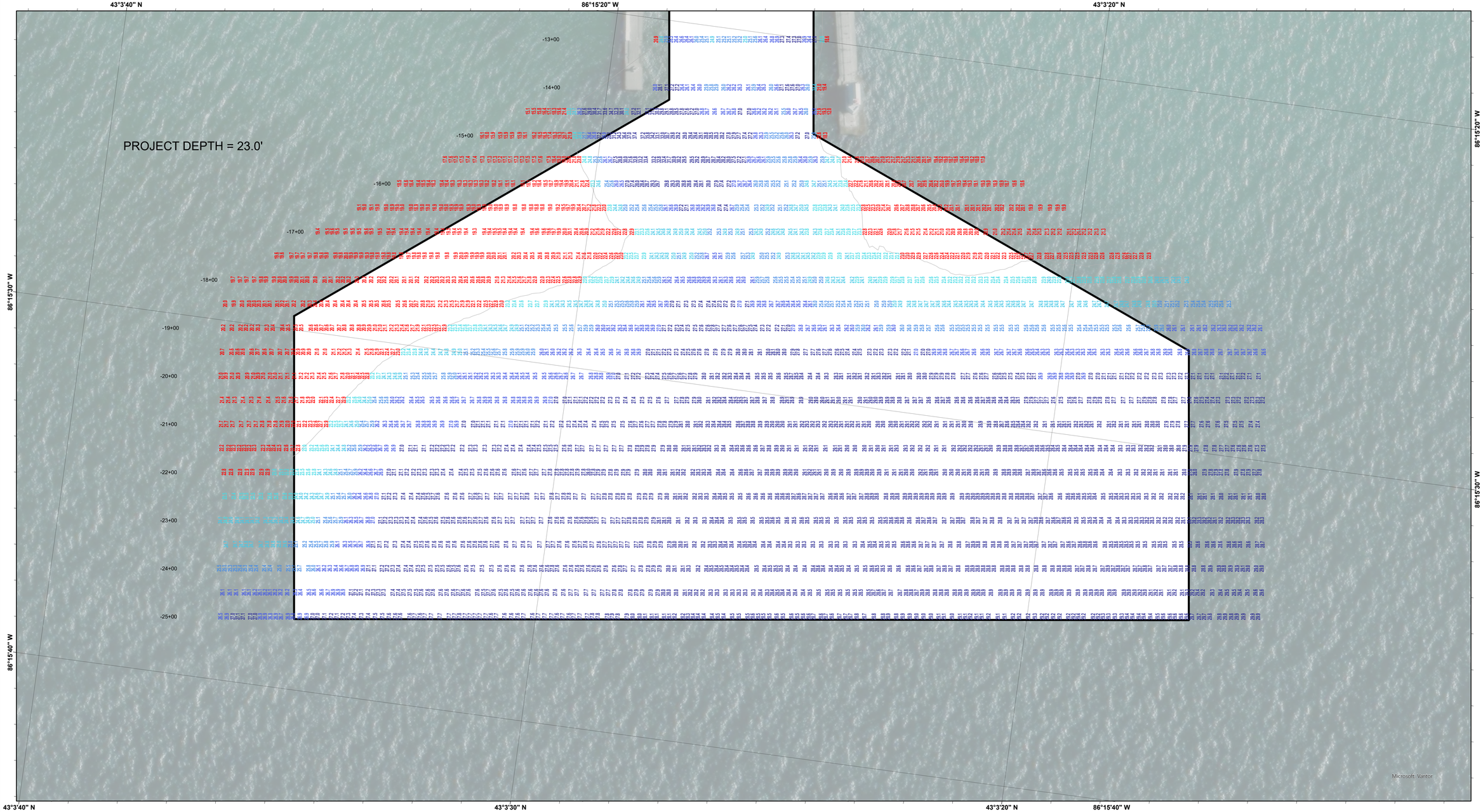
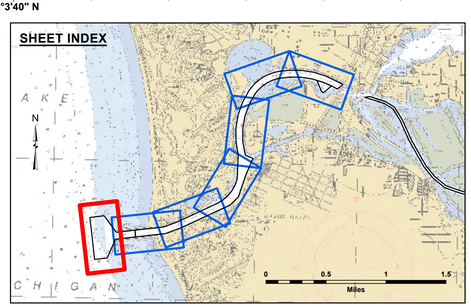
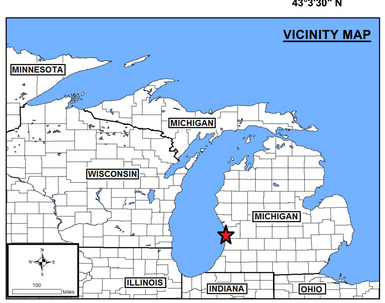






LEGEND

- Cable Submarine
- Cable Overhead
- Placement Area
- Beacon, General
- Contour Lines
- Channel_Limits

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
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- PROJECT DEPTH +1'
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- PROJECT DEPTH +4'
- PROJECT DEPTH +5'

N E S W

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

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SOFTWARE: HYPACK 2025
VESSEL: LAUNCH 3058

IMAGERY SOURCED FROM: MAXAR, MICROSOFT

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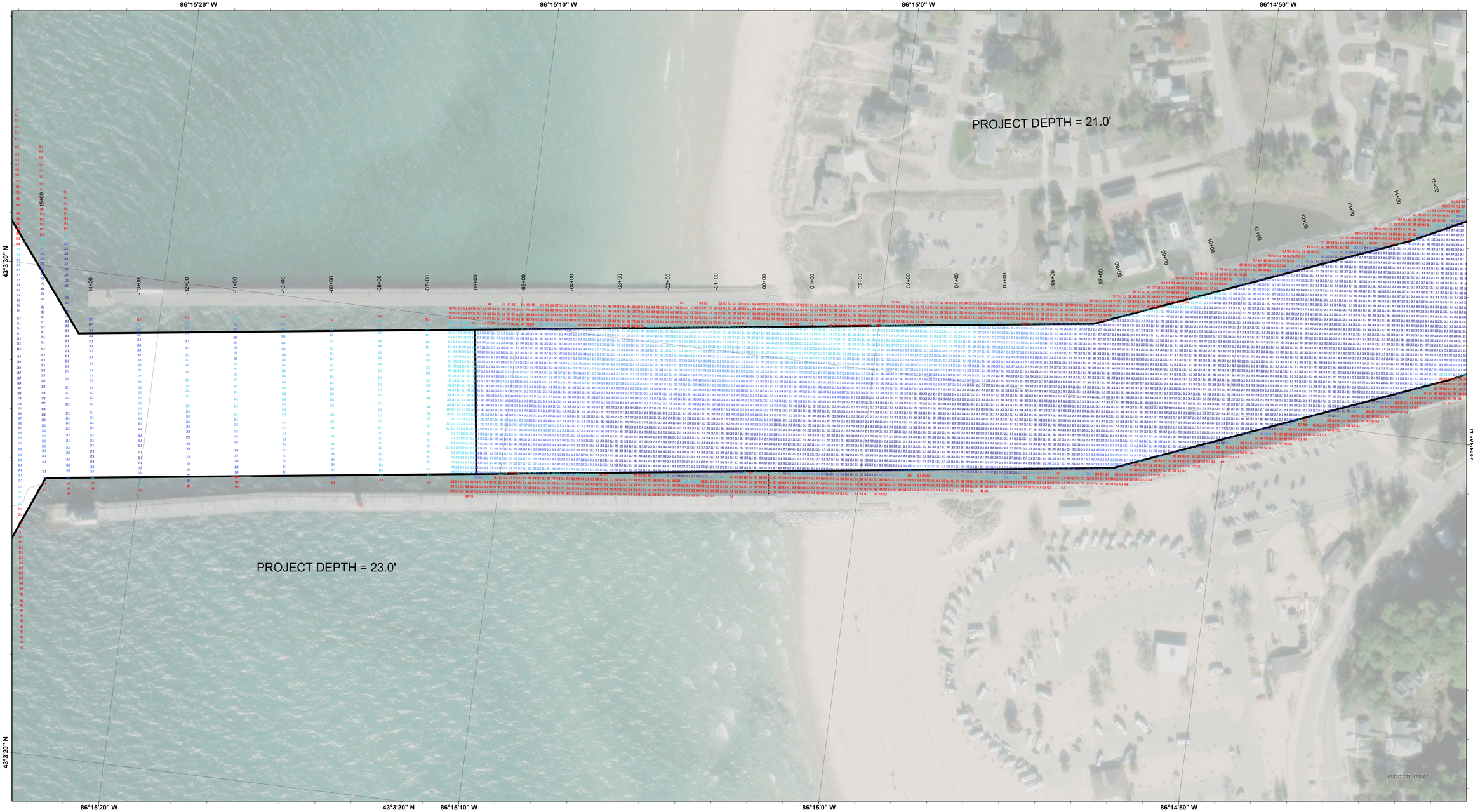
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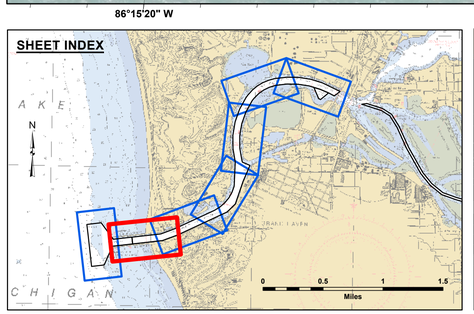
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Submitted:	____	____	____
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Approved: Chief, Technical Services	____	____	____

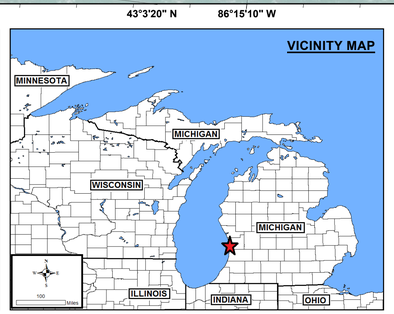
Grand Haven, MI
Grand Haven Harbor
GR_01_HVN_20260326_XC
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LEGEND

- Cable Submarine
- Cable Overhead
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SOUNDING LEGEND

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US Army Corps of Engineers
District: CELRE

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Submitted: _____

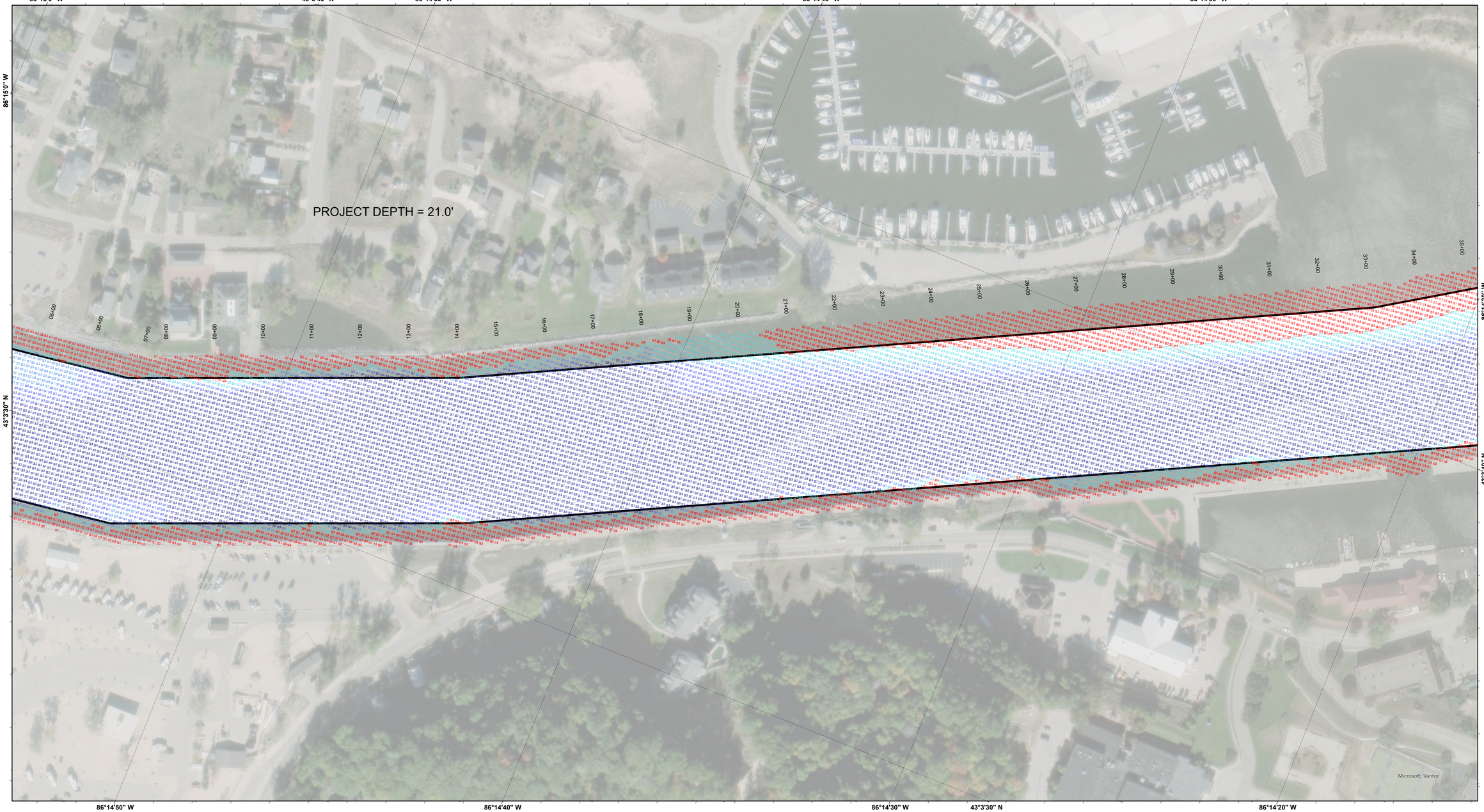
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Recommended: Chief, Survey Section

Checked By: _____
Approved: Chief, Technical Services

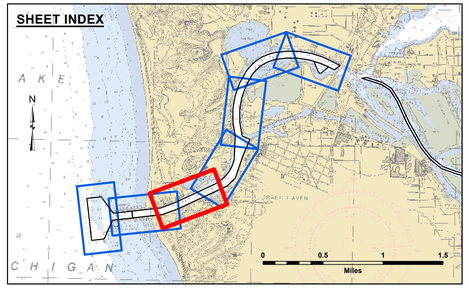
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Grand Haven Harbor
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26 March 2026

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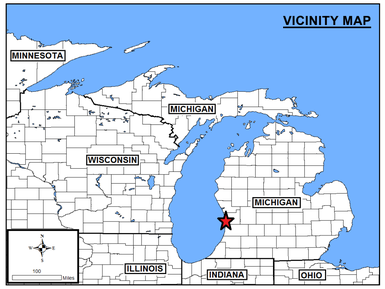
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VICINITY MAP



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- Cable Submarine
- Cable Overhead
- Placement Area
- Beacon, General
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SOFTWARE: HYPACK 2025
VESSEL: LAUNCH 3058

IMAGERY SOURCED FROM: MAXAR, MICROSOFT

US Army Corps of Engineers
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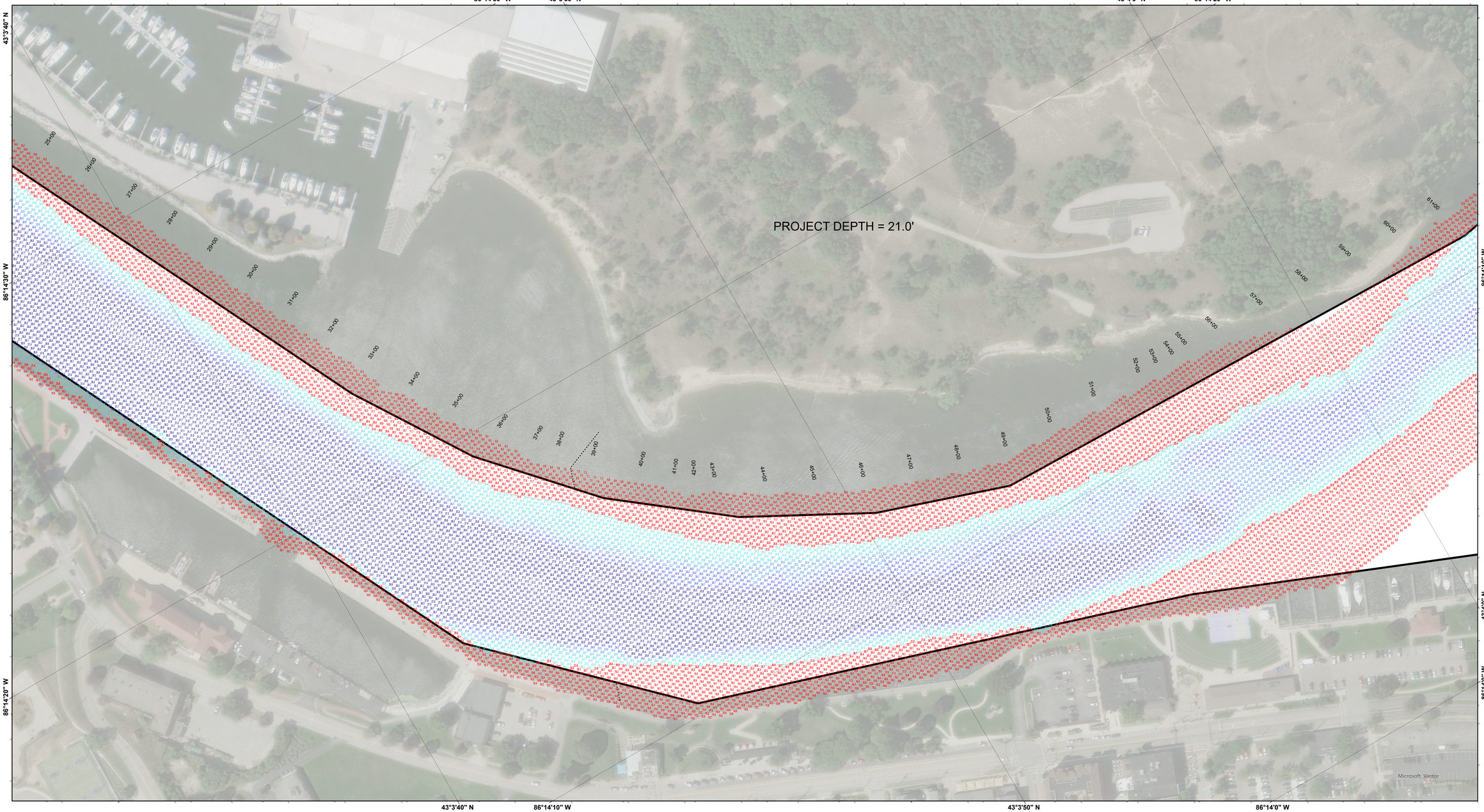
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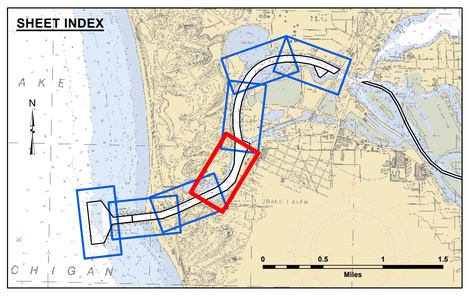
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Recommended:	Chief, Survey Section		
Approved:	Chief, Technical Services		

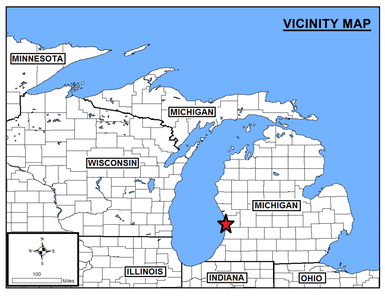
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LEGEND

- Cable Submarine
- Cable Overhead
- Placement Area
- Beacon, General
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- Channel_Limits

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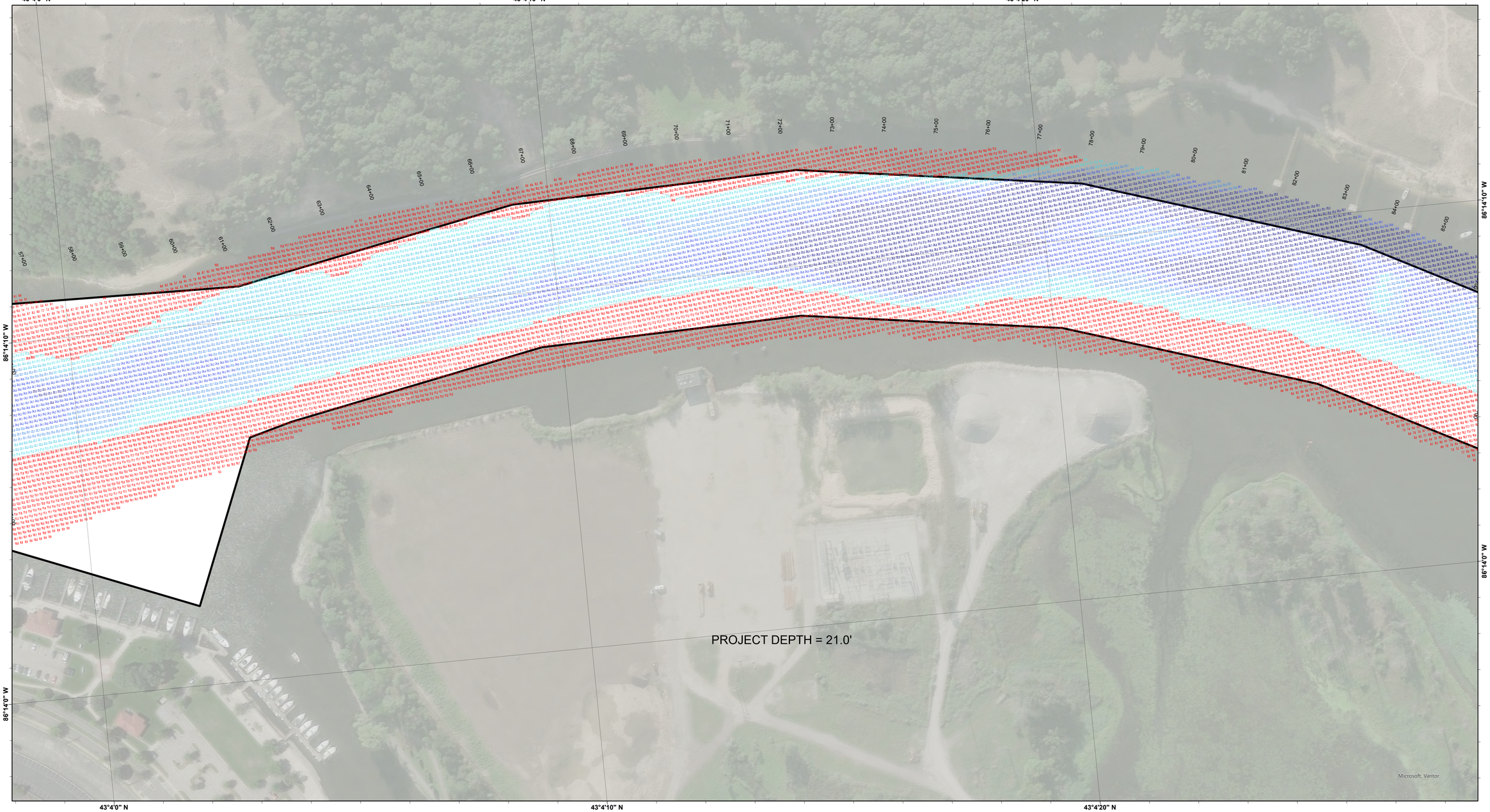
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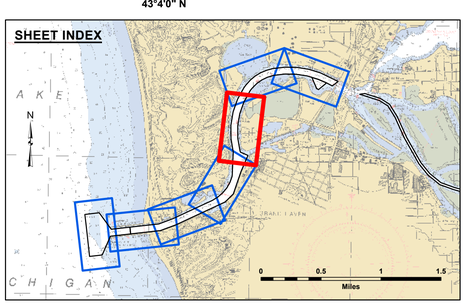
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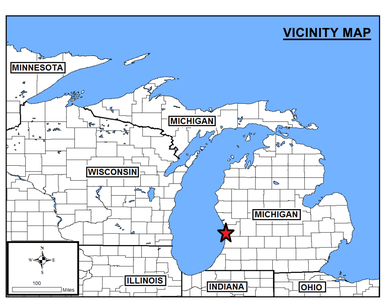
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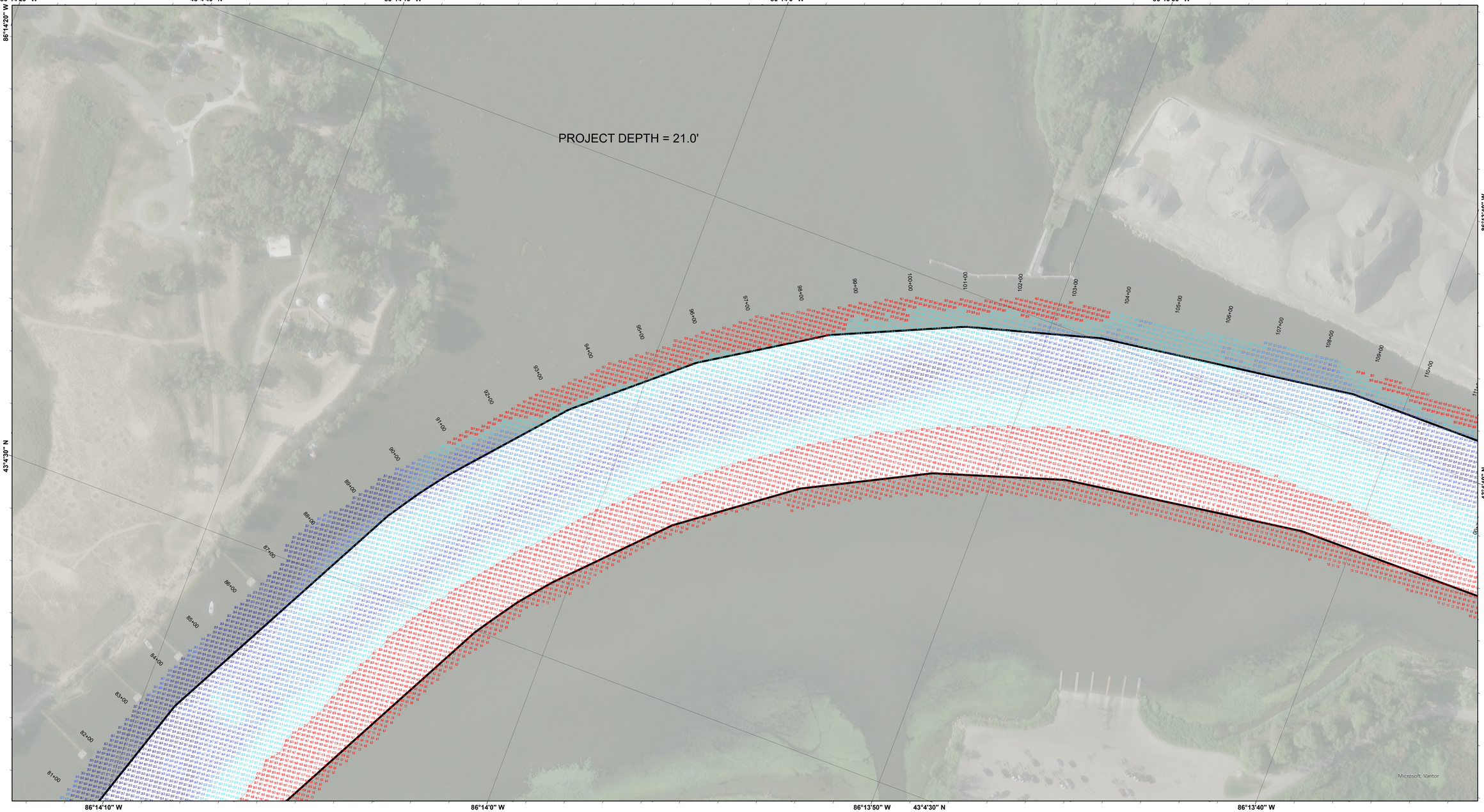
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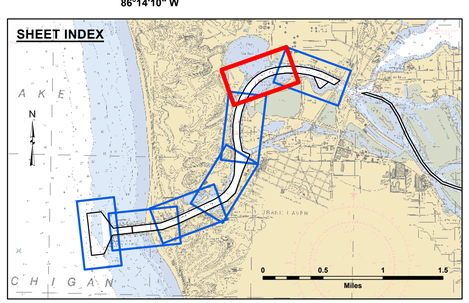
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Submitted:	Recommended: Chief, Survey Section	Approved: Chief, Technical Services

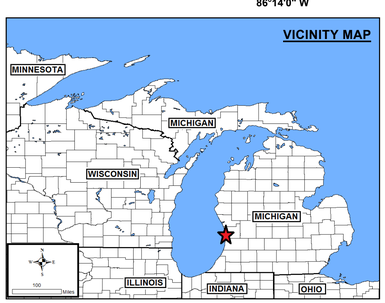
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SOUNDING LEGEND

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- PROJECT DEPTH
- PROJECT DEPTH +1'
- PROJECT DEPTH +2'
- PROJECT DEPTH +3'
- PROJECT DEPTH +4'
- PROJECT DEPTH +5'

N W E S

1 inch = 100 feet

Feet
0 100 200 300 400 500 600

NOTES:

1. THE SOUNDINGS INDICATED HEREON ARE GENERALIZED DEPTHS AND NOT REPRESENTATIVEOF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10 FOOT BY 10 FOOT AREA CENTERED ON THE TEXT, DERIVED FROM A 1 FOOT BY 1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA ARE PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

2. THE GRID SHOWN REFERENCES LATITUDE/LONGITUDE DISPLAYED AS DEGREES, MINUTES, SECONDS IN 10 SECOND INCREMENTS. THE SURVEY DATA REPRESENTED HEREIN ARE PROJECTED TO THE MICHIGAN STATE PLANE, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.

3. ALL SOUNDINGS ARE REFERENCED TO THE INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85) FOR LAKE MICHIGAN; ELEVATION 577.5 FEET ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC.

4. WATER LEVEL READINGS WERE OBTAINED WITH REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) VALUES THAT VERIFIED TO MATCH READINGS TAKEN FROM A FIXED TIDE GAGE MARK ALONG THE SHEET STEEL WALL IN THE GRAND HAVEN GOVERNMENT BASIN, MI.

5. PROJECT DEPTH = 23.0 FEET, 21.0 FEET (AS MARKED)

6. POSITIONING SYSTEM: APPLANIX POS M/V OCEANMASTER
CORRECTIONS: CENTERPOINT RTX
SURVEY METHOD: RTK TIDES
STA. -25+00 to -06+00: ODOM CV300 (SINGLE BEAM SONAR), SURVEY DATE 20260319
STA. -06+00 to 97+50: R2SONIC 2024-V (MULTIBEAM SONAR), SURVEY DATE 20260324
STA. 97+50 to 132+00: R2SONIC 2024-V (MULTIBEAM SONAR), SURVEY DATE 20260326
SOFTWARE: HYPACK 2025
VESSEL: LAUNCH 3058

IMAGERY SOURCED FROM: MAXAR, MICROSOFT

US Army Corps of Engineers
District: CELRE

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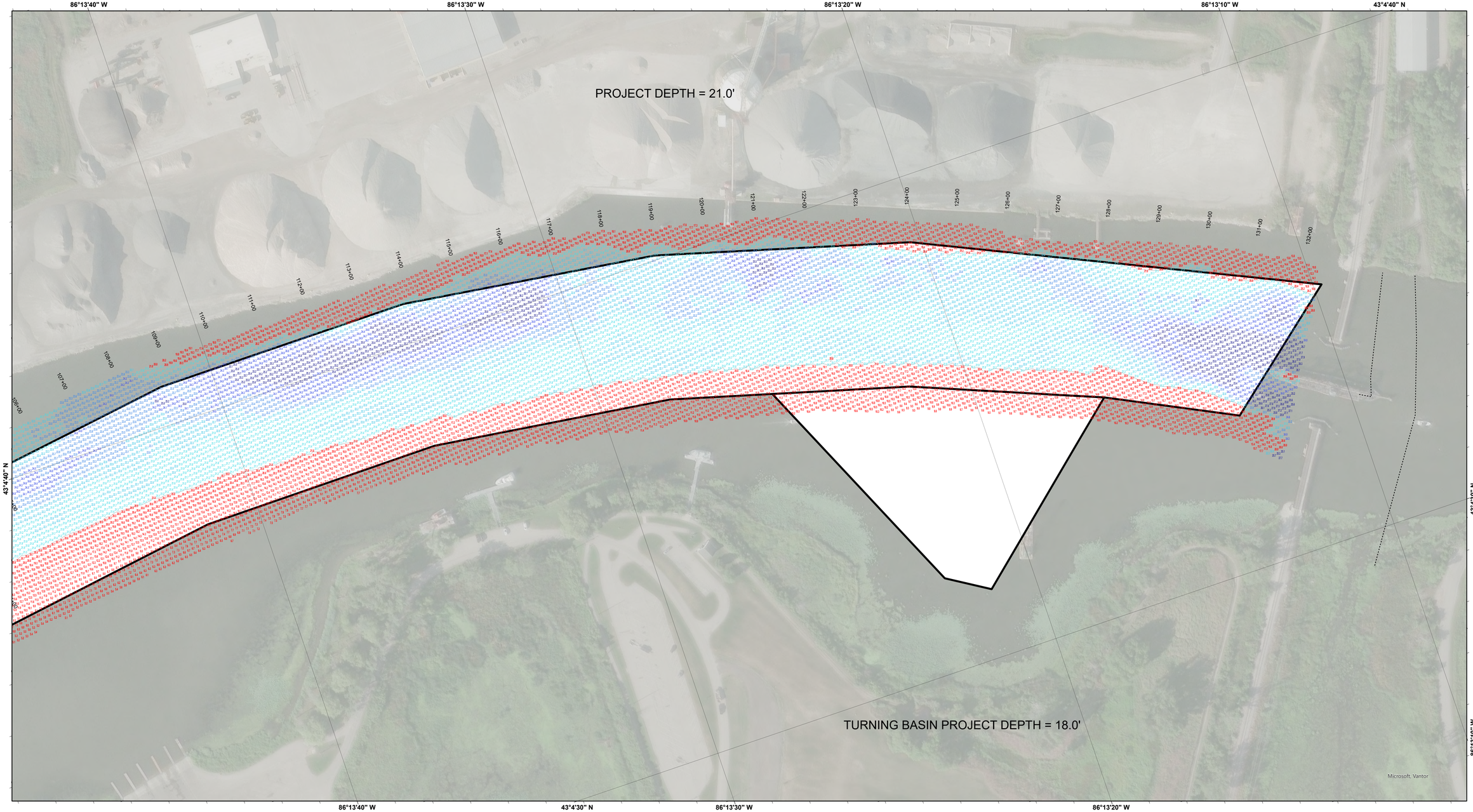
U.S. ARMY COPRPS OF ENGINEERS
DETROIT DISTRICT

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

Grand Haven, MI
Grand Haven Harbor
GR_01_HVN_20260326_XC
26 March 2026

Sheet Reference Number
6 of 7

Revision Number:
5.25.07.03-5.25.07.03



US Army Corps of Engineers
District: CELRE

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U.S. ARMY CORPPS OF ENGINEERS
DETROIT DISTRICT

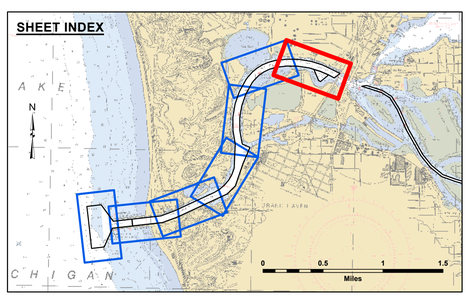
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	Plotted By:	____
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Grand Haven, MI
Grand Haven Harbor
GR_01_HVN_20260326_XC
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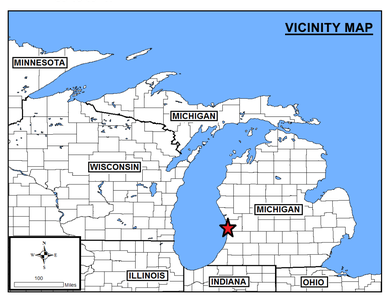
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SHEET INDEX



VICINITY MAP



LEGEND
- Cable Submarine
- Cable Overhead
- Placement Area
- Beacon, General
- Contour Lines
- Channel_Limits

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