86°9'20" W 86°9'10" W 42°46'50" N 86°9'0" W 86°8'50" W

42°46'40" N

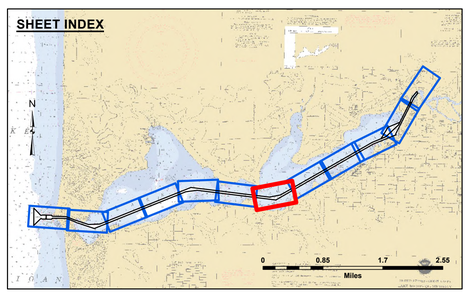
159+00 160+00 161+00 162+00 163+00 164+00 165+00 166+00 167+00 168+00 169+00 170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00

PROJECT DEPTH = 21.0'

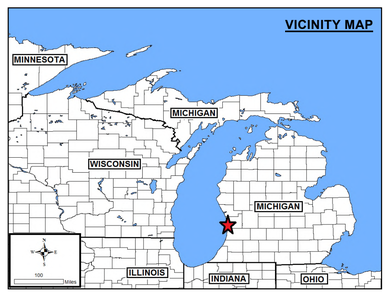
Microsoft, Vantor

86°9'20" W 86°9'10" W 86°9'0" W 86°8'50" W

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VICINITY MAP



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 +3'
- PROJECT DEPTH +4'
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N W E S

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

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DETROIT DISTRICT

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

HOLLAND HARBOR, MI
Holland Harbor
HO_01_LND_20251117_XA
17 November 2025

Sheet Reference Number
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86°8'50" W 86°8'40" W 42°47'0" N 86°8'30" W 86°8'20" W

42°46'50" N 86°8'50" W

189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00 217+00 218+00

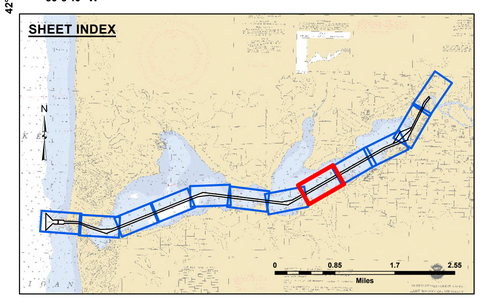
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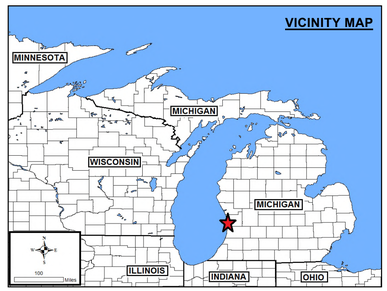
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US Army Corps of Engineers
District: CELRE

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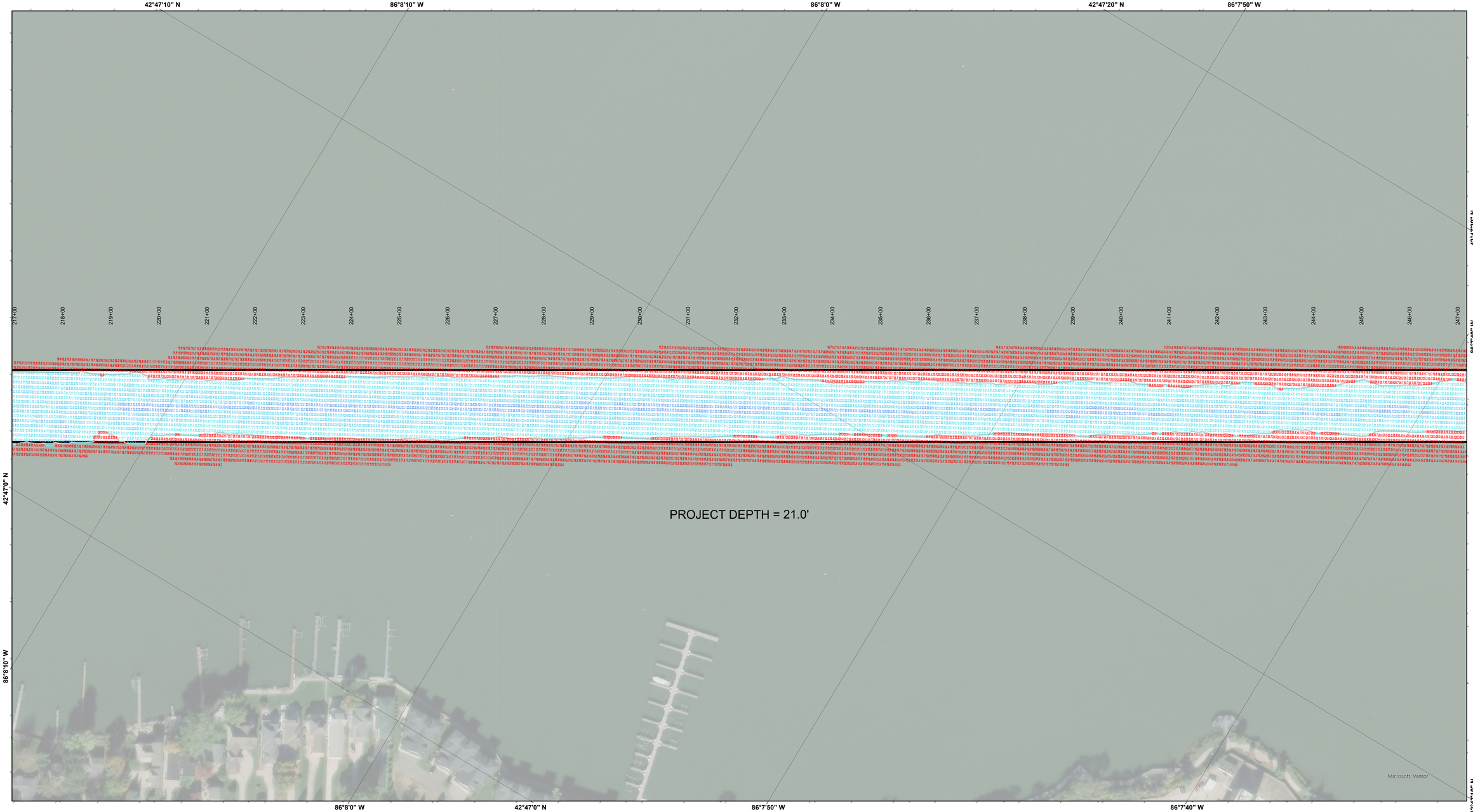
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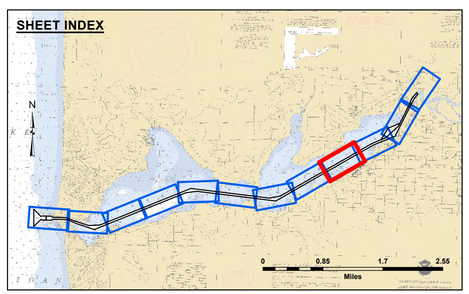
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Submitted:		
Recommended:	Chief, Survey Section	
Approved:	Chief, Technical Services	

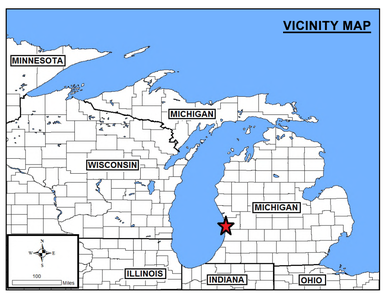
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Holland Harbor
HO_01_LND_20251117_XA
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LEGEND

- Cable Submarine
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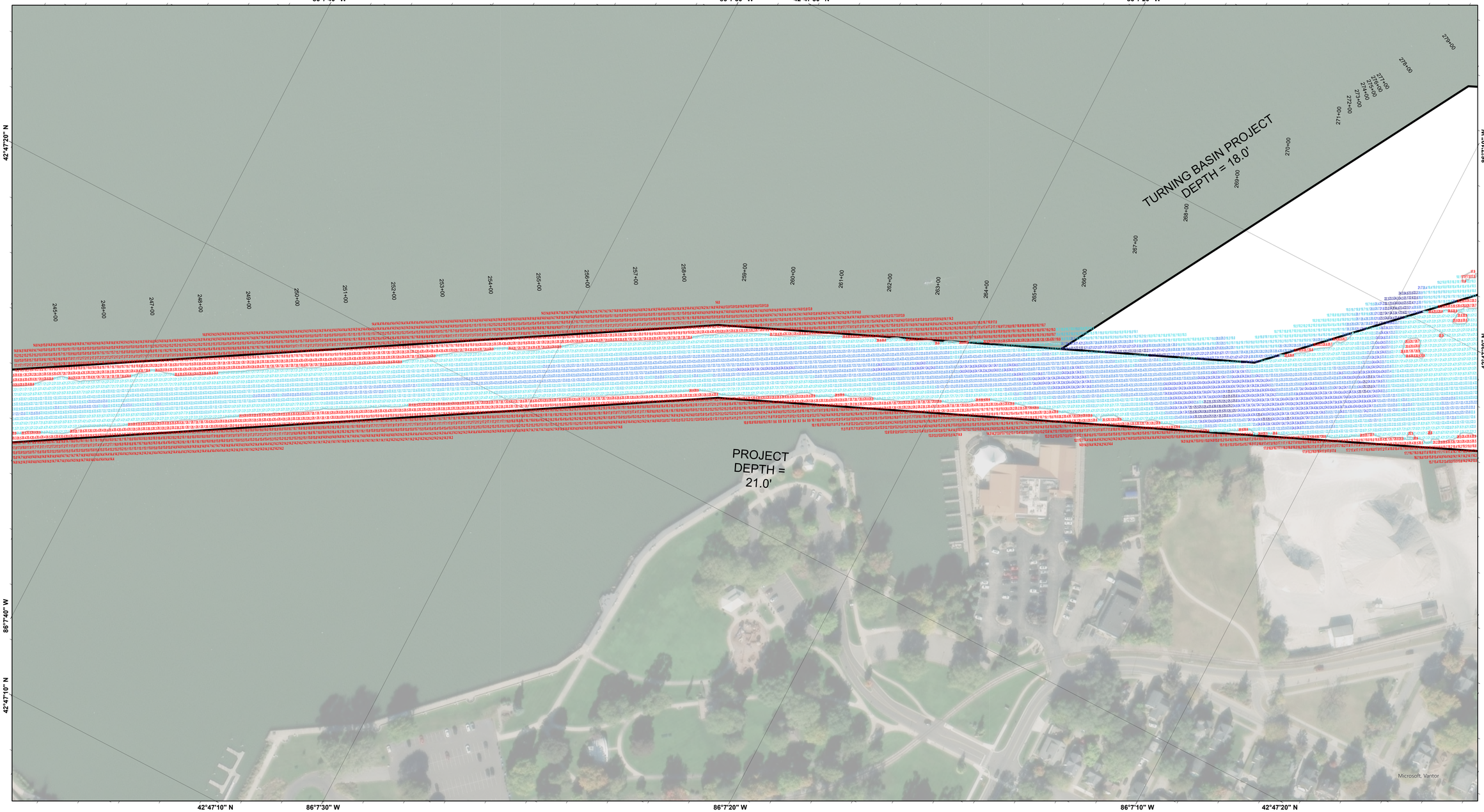
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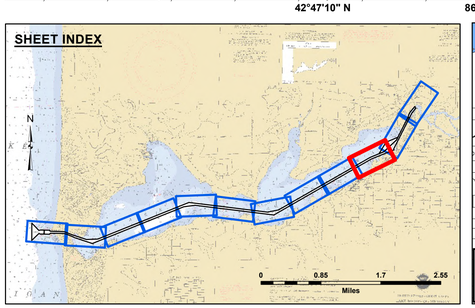
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Submitted:	Recommended: Chief, Survey Section	Approved: Chief, Technical Services

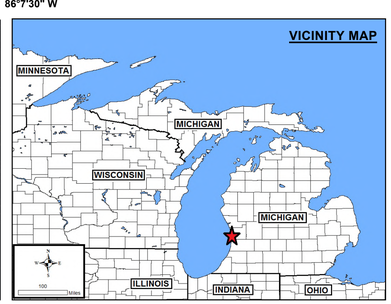
HOLLAND HARBOR, MI
Holland Harbor
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LEGEND

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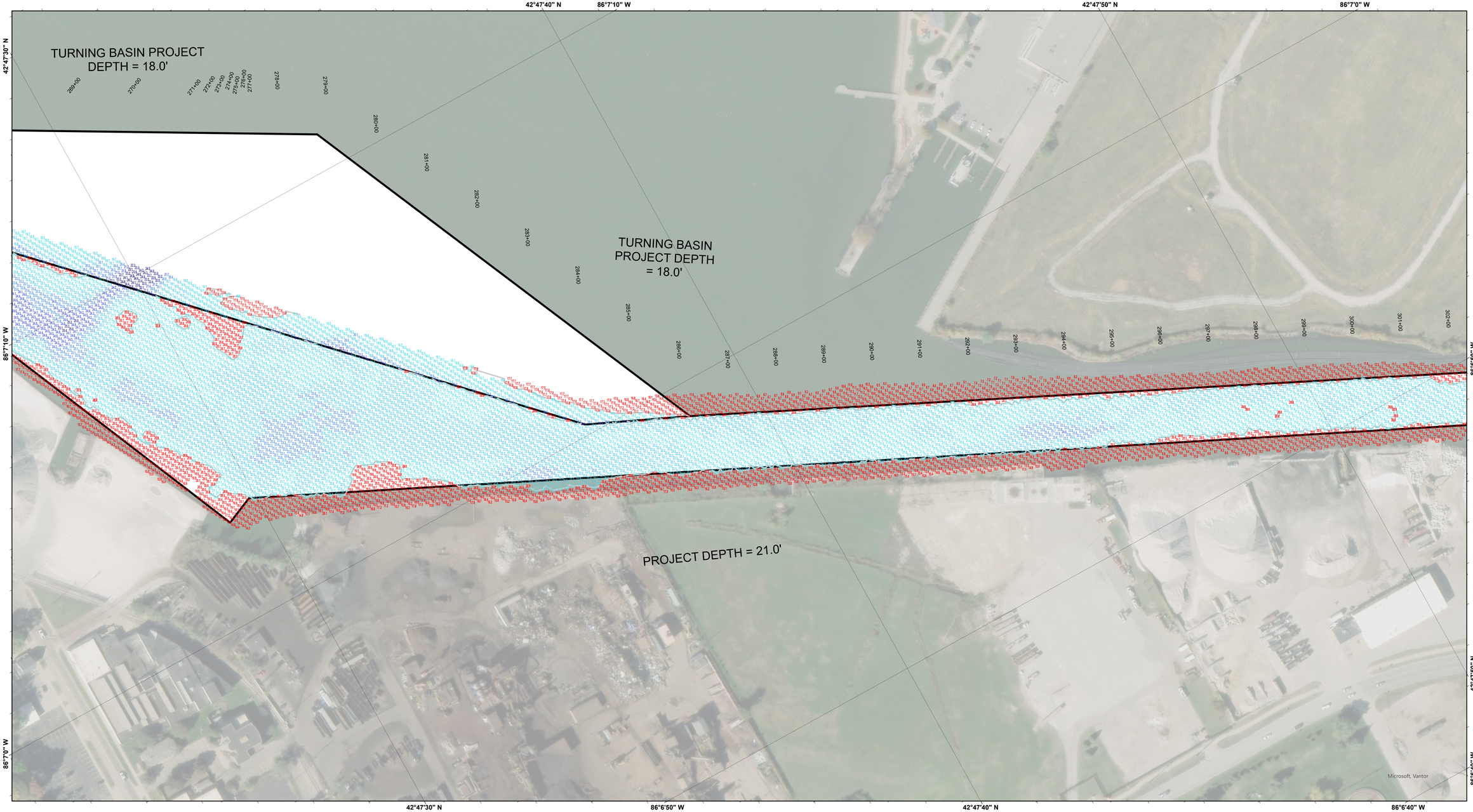
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Recommended: Chief, Survey Section ____
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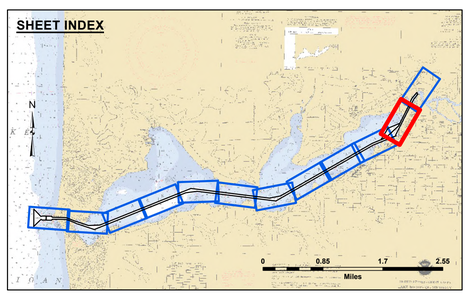
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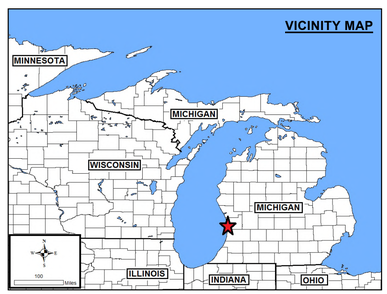
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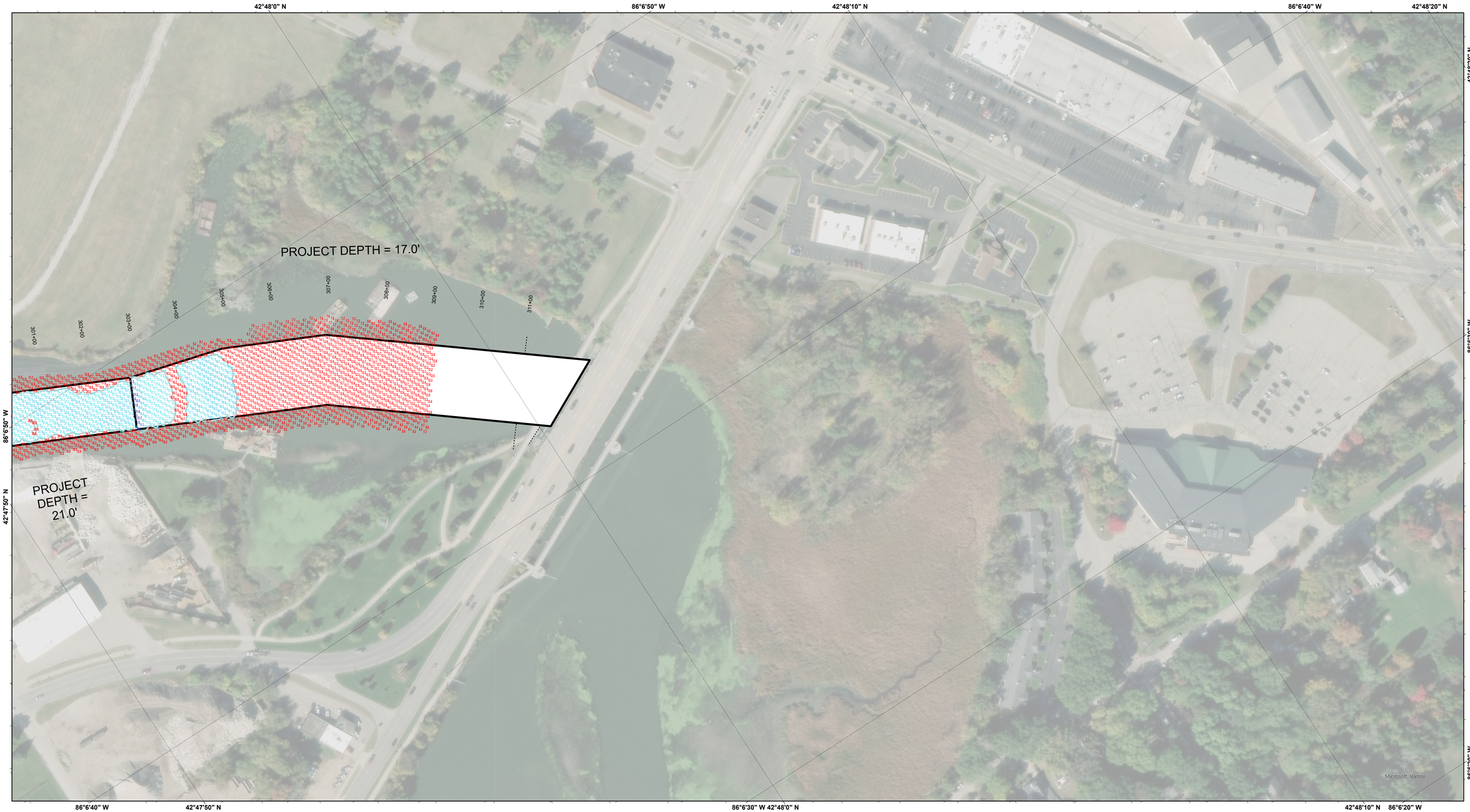
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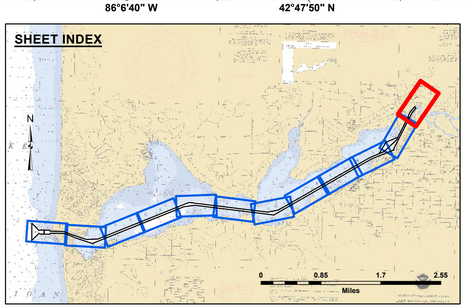
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Recommended: Chief, Survey Section	
Approved: Chief, Technical Services	

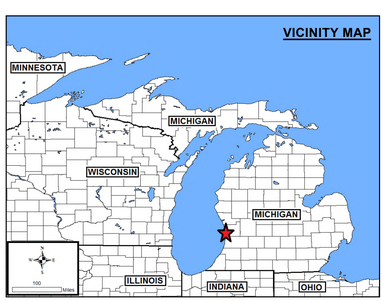
HOLLAND HARBOR, MI
Holland Harbor
HO_01_LND_20251117_XA
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LEGEND

- 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

NOTES:

1. THE SOUNDINGS INDICATED HEREON ARE GENERALIZED DEPTHS AND ARE 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. VERTICAL WATER LEVEL READINGS WERE TAKEN FROM FIXED GAGE MARKS ALONG SHEET STEEL WALLS AT KOLLEN PARK NEAR CROSS SECTION 249+00E AND DUNTON PARK NEAR CROSS SECTION 290+00E IN HOLLAND HARBOR, MI.

5. PROJECT DEPTH = 23.0 FEET, 21.0 FEET, 18.0 FEET, 17.0 FEET (AS MARKED)

6. POSITIONING: CENTERPOINT RTX
CORRECTIONS: APPLANIX POS MV OCEANMASTER
EQUIPMENT: R2SONIC 2024-V MULTIBEAM ECHOSOUNDER
VESSEL: LAUNCH 3058
SOFTWARE: HYPACK 2024
SURVEY DATE: 2025OCT28, CROSS SECTIONS 158+00 to 211+50; 220+00 to 281+50; 305+50 to 309+00
SURVEY DATE: 2025NOV17, CROSS SECTIONS 211+50 to 220+00; 281+50 to 305+50

IMAGERY SOURCED FROM: MICROSOFT, VANTOR

US Army Corps of Engineers
District: CELRE

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U.S. ARMY CORPRS OF ENGINEERS
DETROIT DISTRICT

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

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