83°51'0" W 43°38'30" N 43°38'40" N

83°50'50" W

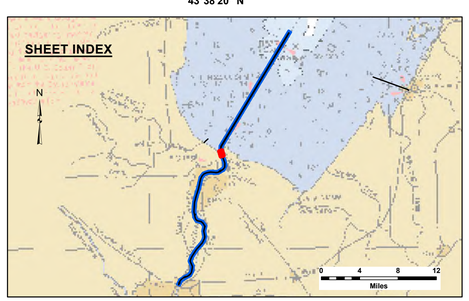
PROJECT DEPTH = 25.0'

83°50'40" W

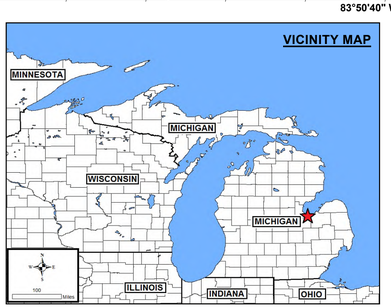
83°50'40" W 43°38'20" N 83°50'40" W 43°38'30" N 43°38'40" N

Source: Esri, Vantor, Earthstar Geographics, and the GIS User Community

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VICINITY MAP



LEGEND

- Cable Submarine
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- Beacon, General
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- Channel_Limits

SOUNDING LEGEND

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- PROJECT DEPTH +1'
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W S N E

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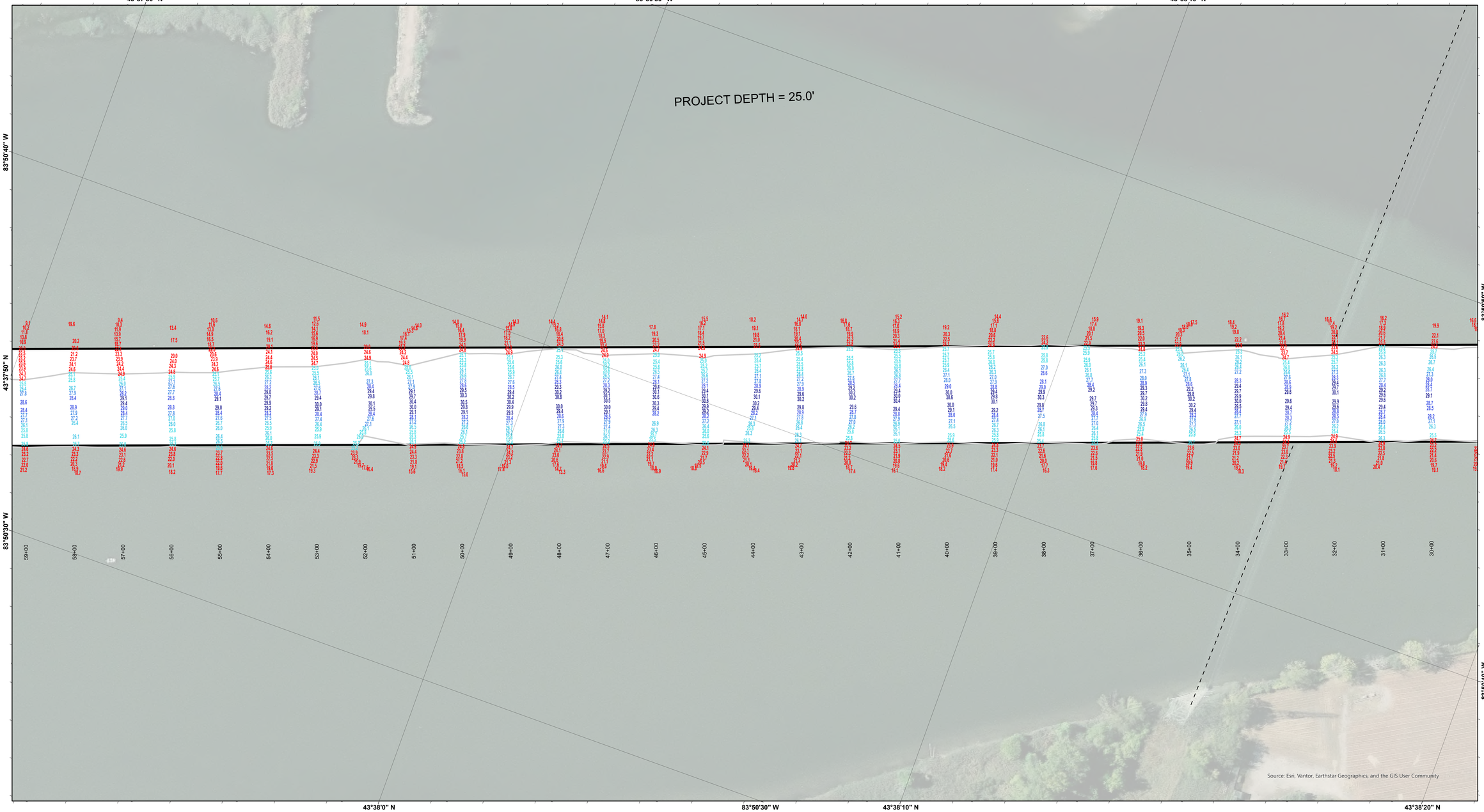
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Submitted:	____	____	____
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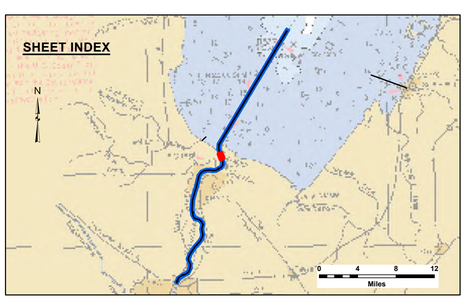
Saginaw, MI
Saginaw River
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VICINITY MAP



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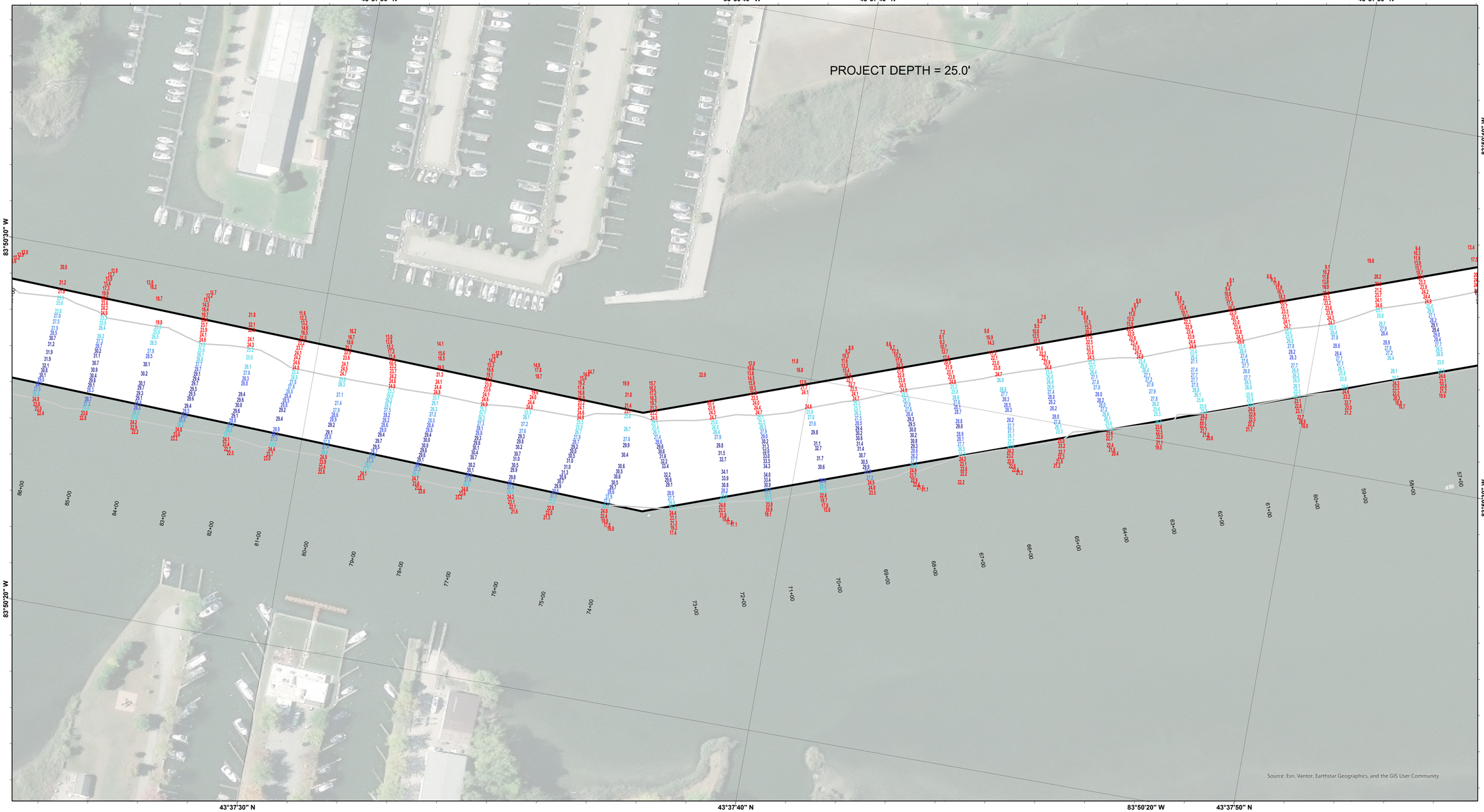
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Surveyed By:	____
Plotted By:	____
Checked By:	____
Submitted:	
Recommended:	Chief, Survey Section
Approved:	Chief, Technical Services

Saginaw, MI
Saginaw River
SH_01_SAG_20260622_CS
22 June 2026

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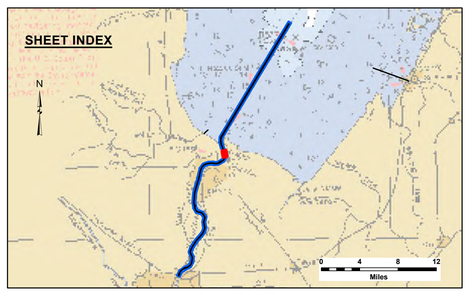
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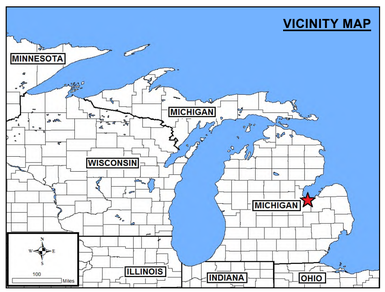
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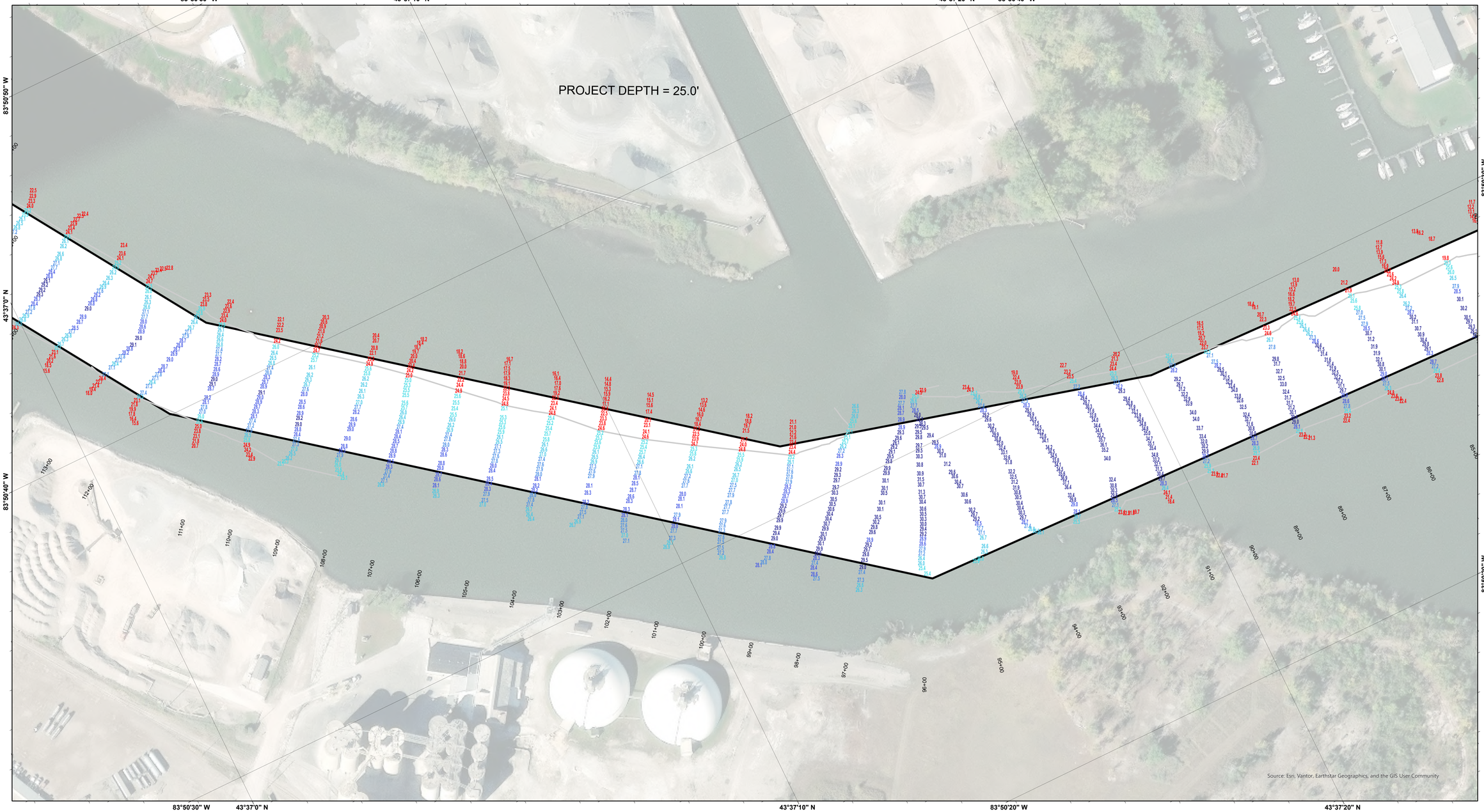
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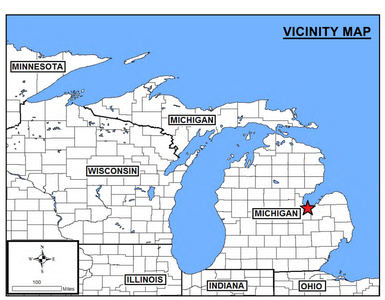
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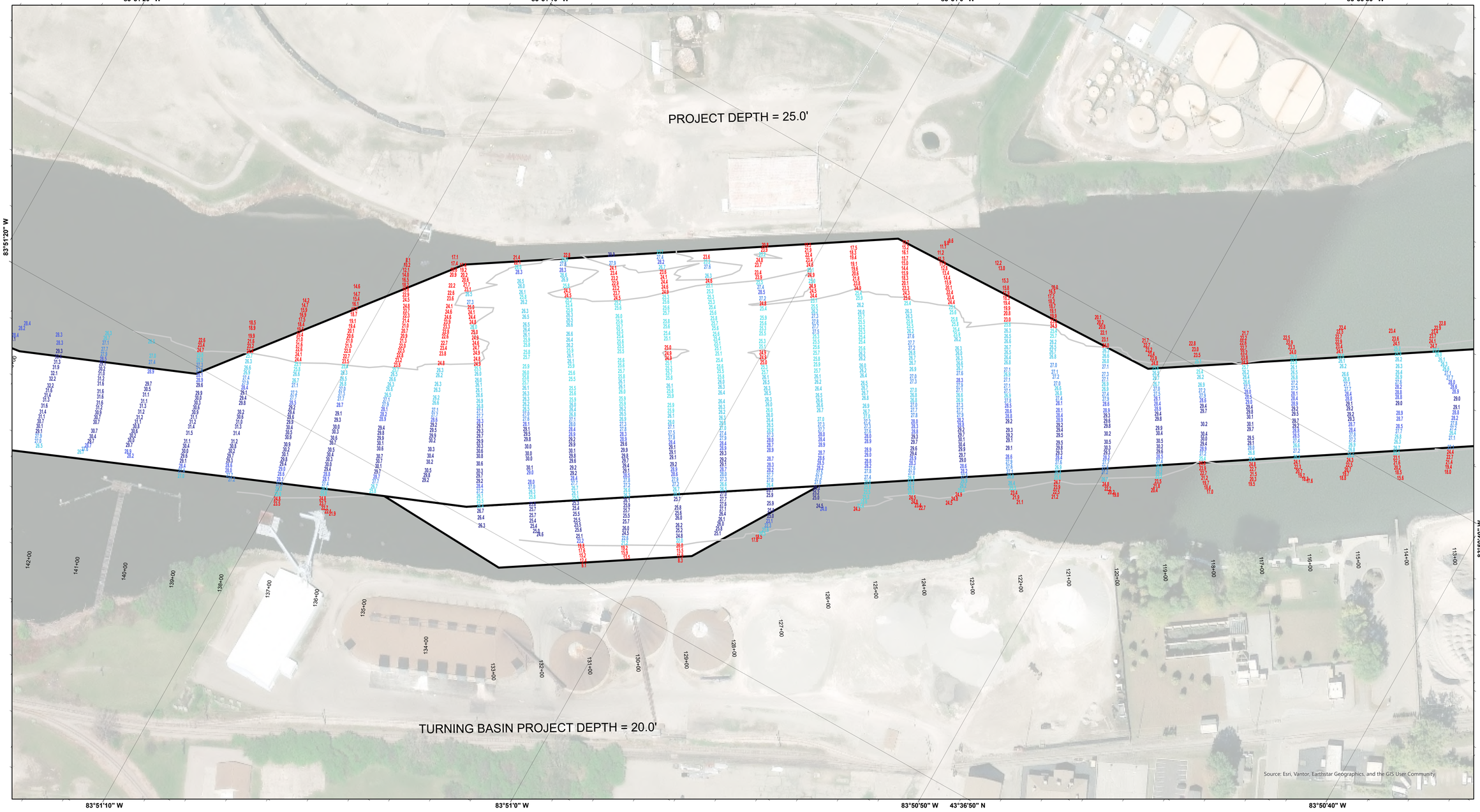
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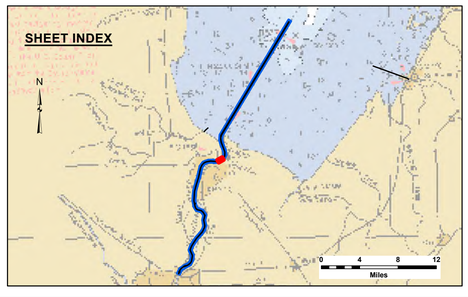
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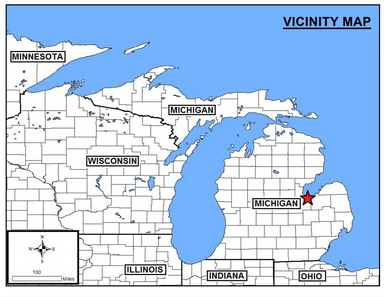
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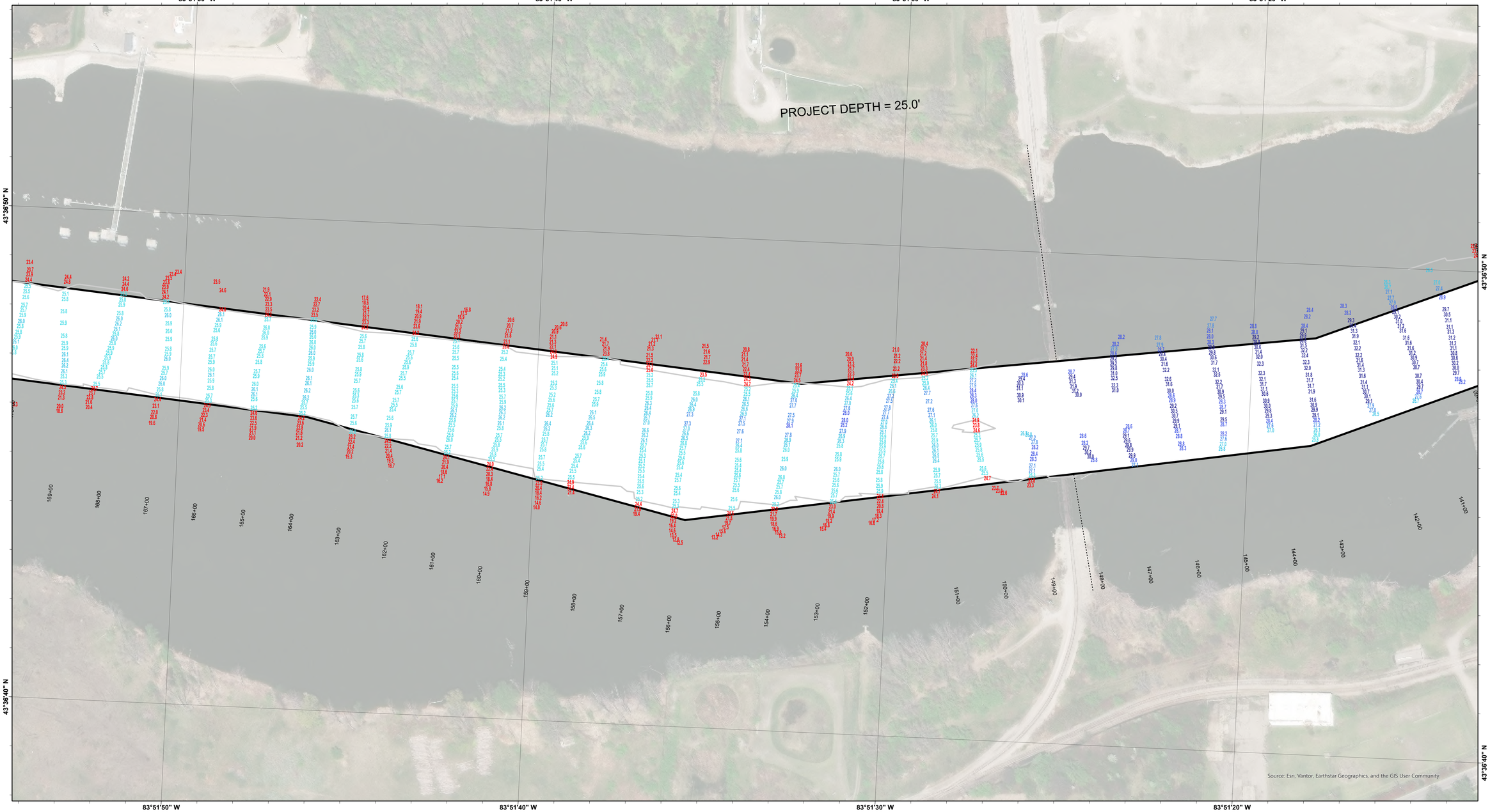
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Checked By: ____

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

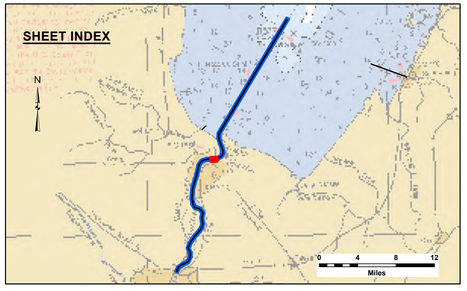
Saginaw, MI
Saginaw River
SH_01_SAG_20260622_CS
22 June 2026

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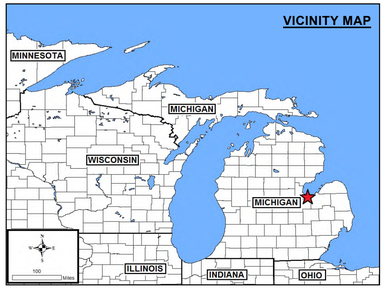
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- Cable Overhead
- Placement Area
- Beacon, General
- Contour Lines
- Channel_Limits

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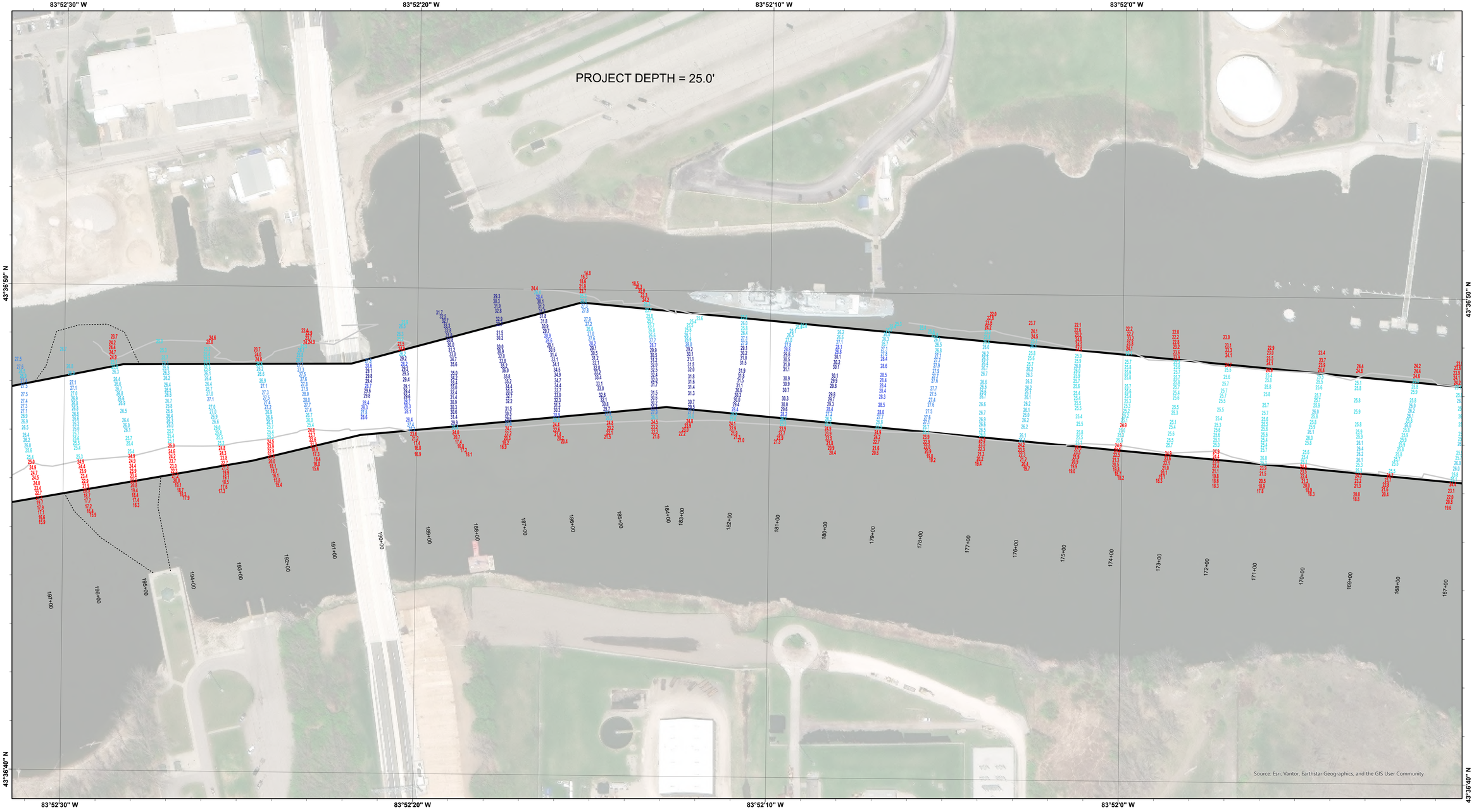
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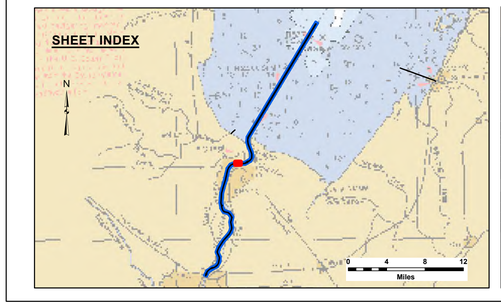
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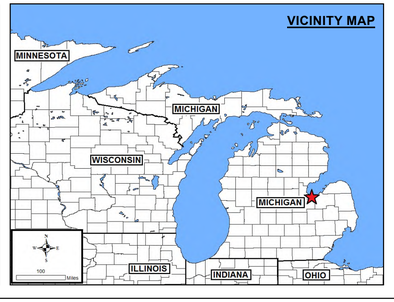
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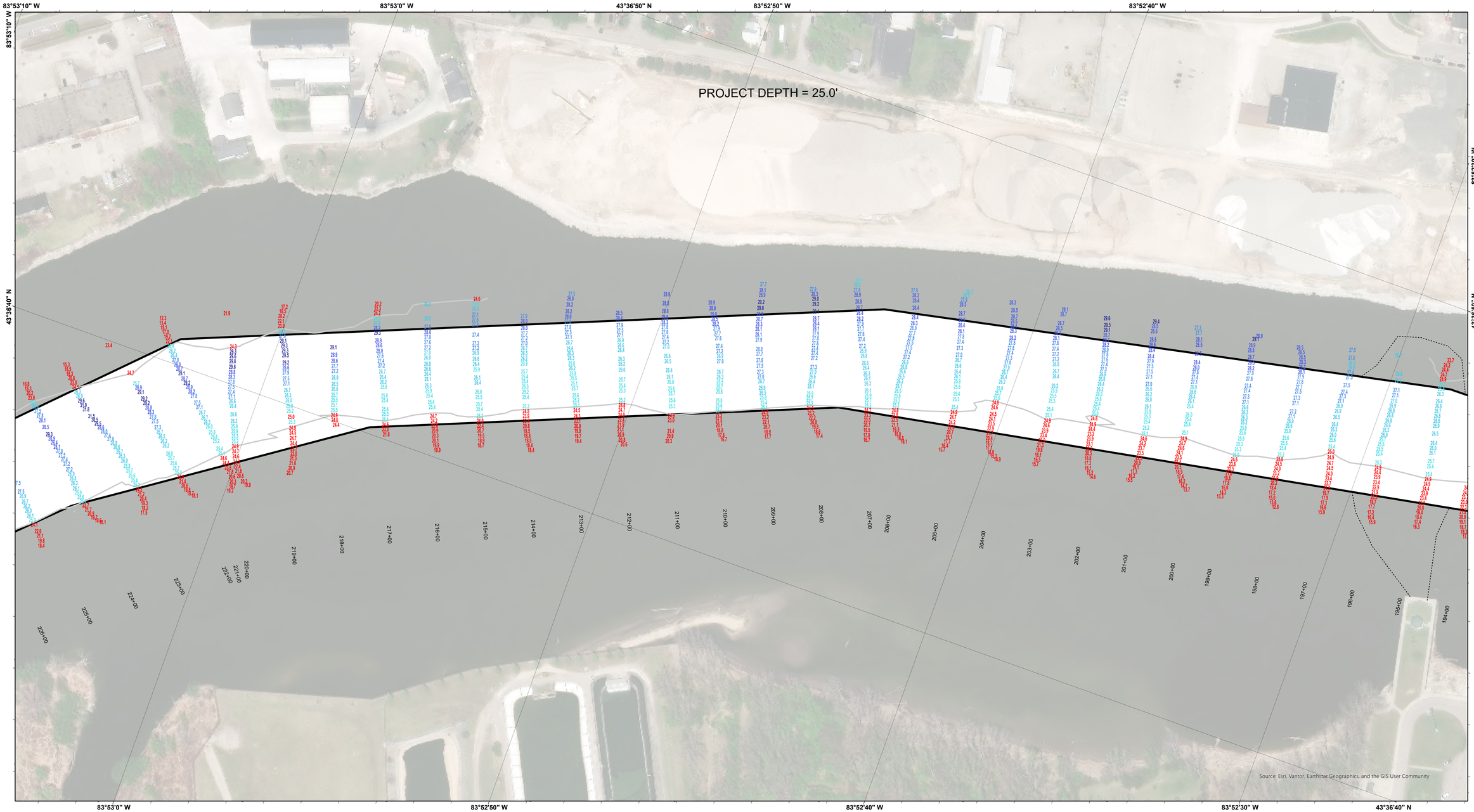
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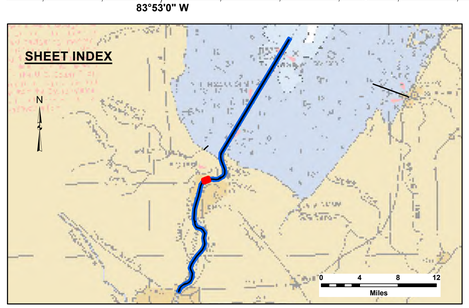
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Submitted:		Recommended: Chief, Survey Section	
Approved:	Chief, Technical Services		

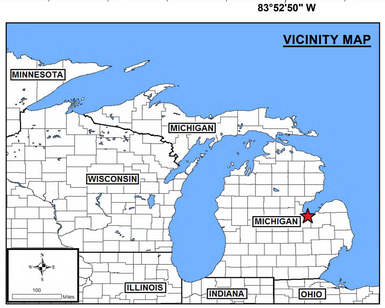
Saginaw, MI
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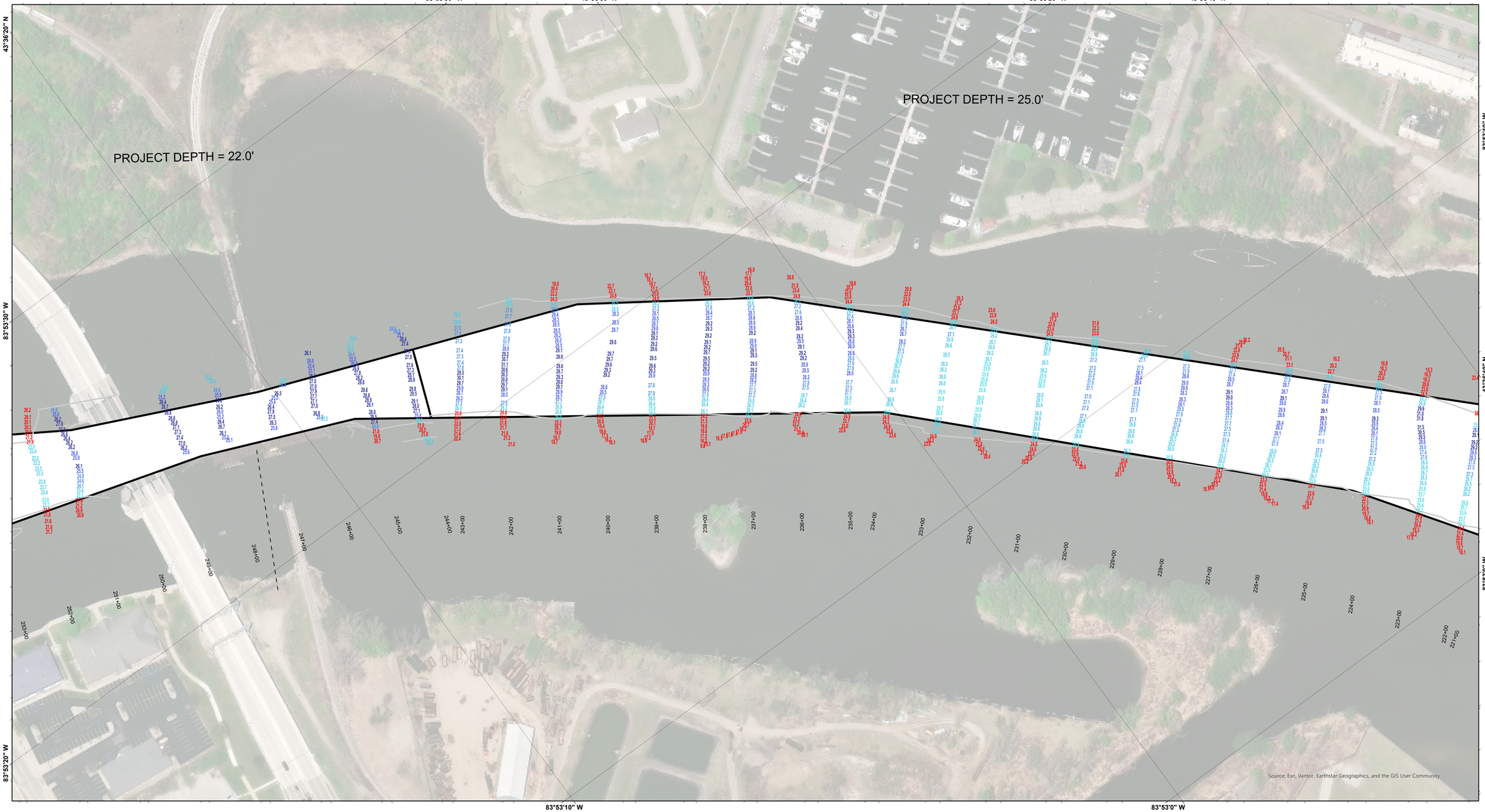
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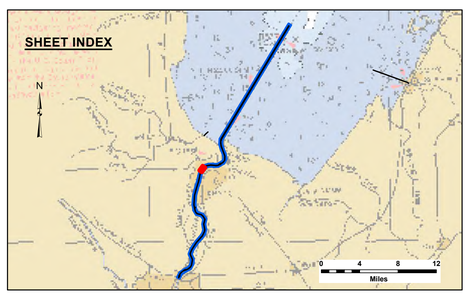
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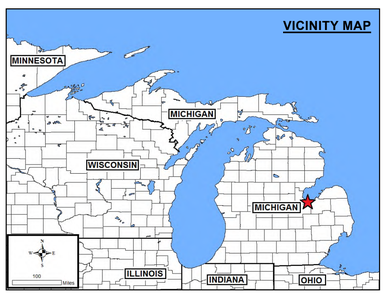
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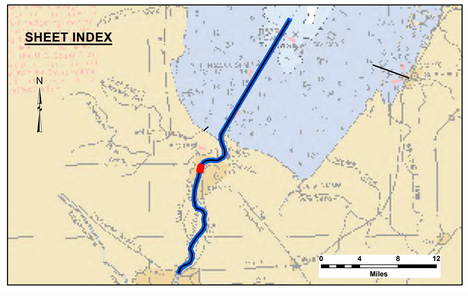
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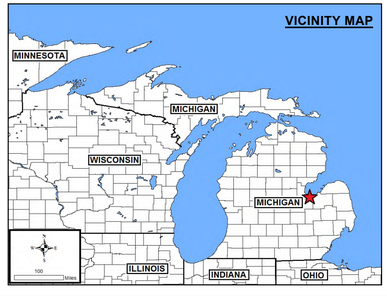
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43°36'0" N
83°53'40" W
43°35'50" N
83°53'30" W
PROJECT DEPTH = 22.0'
83°53'40" W
43°36'10" N
83°53'30" W
83°53'20" W
279+00 278+00 277+00 276+00 275+00 274+00 273+00 272+00 271+00 270+00 269+00 268+00 267+00 266+00 265+00 264+00 263+00 262+00 261+00 260+00 259+00 258+00 257+00 256+00 255+00 254+00 253+00 252+00 251+00 250+00 249+00
43°35'50" N
83°53'20" W
43°36'10" N
Source: Esri, Vantor, Earthstar Geographics, and the GIS User Community

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SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT
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US Army Corps of Engineers
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43°35'30" N 83°53'50" W 43°35'40" N 83°53'40" W 43°35'50" N

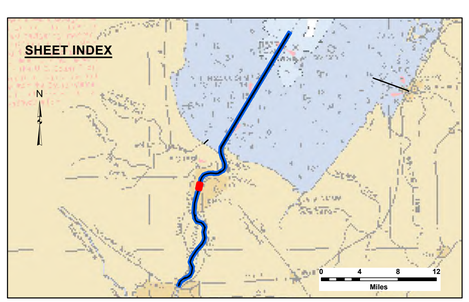
PROJECT DEPTH = 22.0'

306+00 305+00 304+00 303+00 302+00 301+00 300+00 299+00 298+00 297+00 296+00 295+00 294+00 293+00 292+00 291+00 290+00 289+00 288+00 287+00 286+00 285+00 284+00 283+00 282+00 281+00 280+00 279+00 278+00 277+00

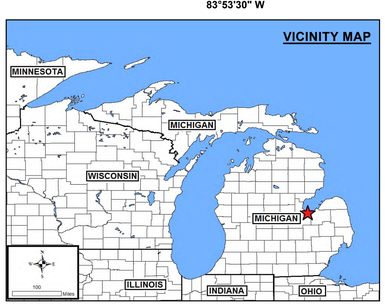
83°53'30" W 43°35'40" N 43°35'50" N

Source: Esri, Vantor, Earthstar Geographics, and the GIS User Community

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VICINITY MAP



LEGEND

- Cable Submarine
- Cable Overhead
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SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
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- PROJECT DEPTH +5'

N S E W

1 inch = 100 feet

Feet 0 100 200 300 400

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

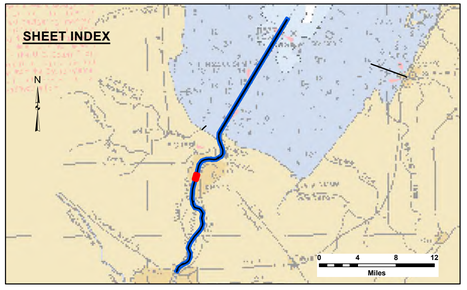
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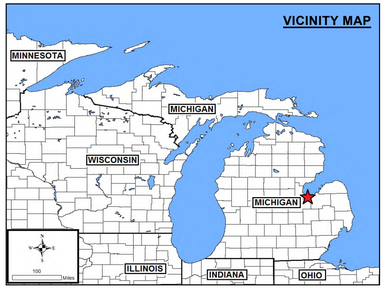
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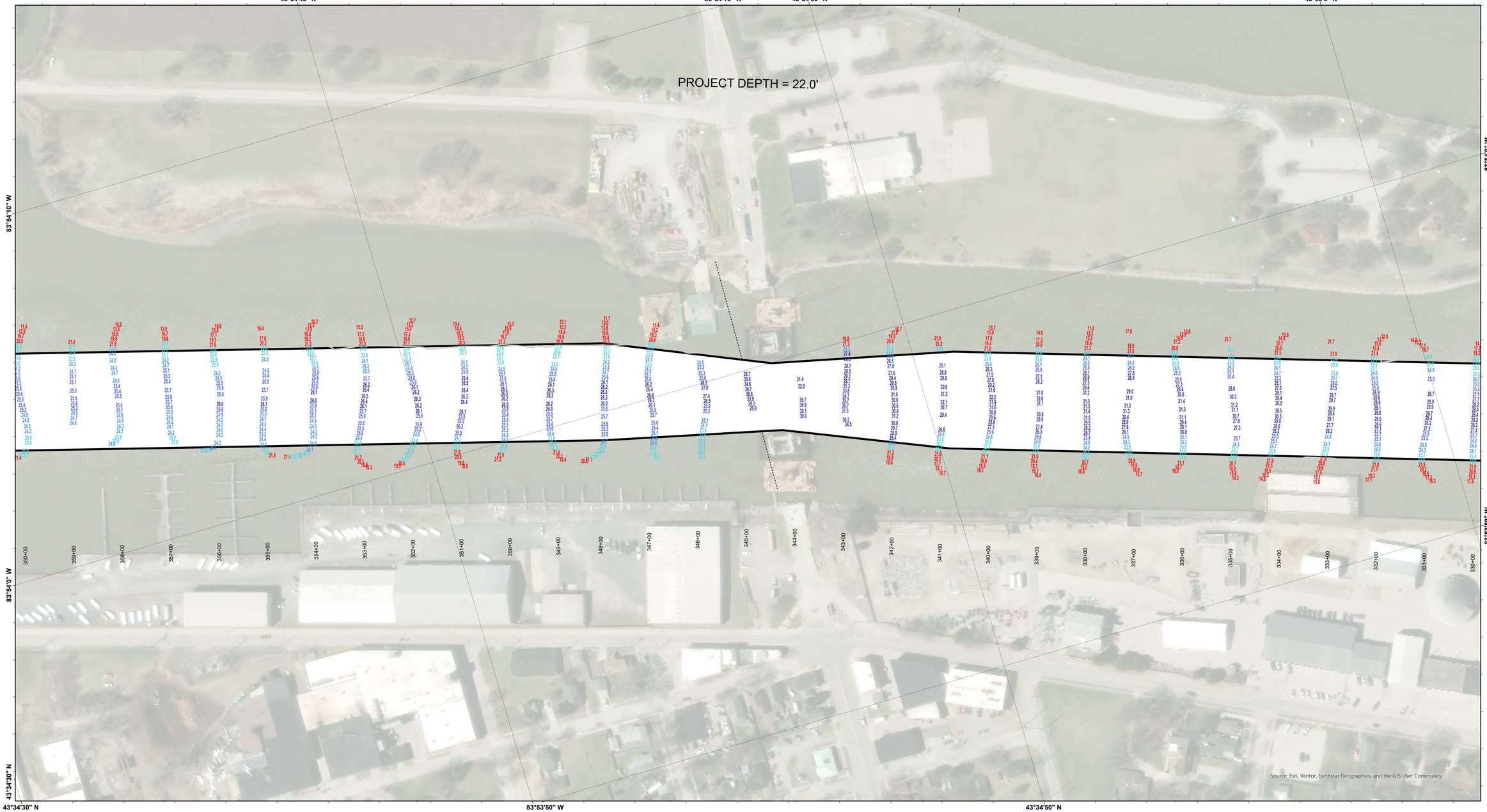
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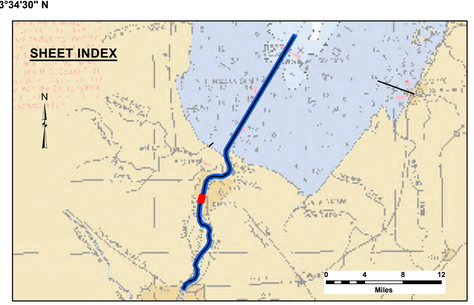
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	Plotted By:	____
Recommended: Chief, Survey Section		____
Approved: Chief, Technical Services	Checked By:	____

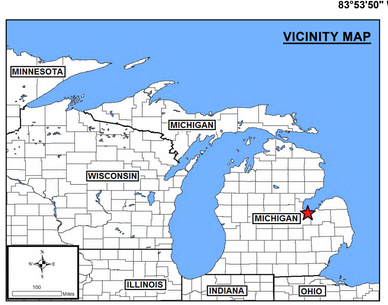
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Saginaw River
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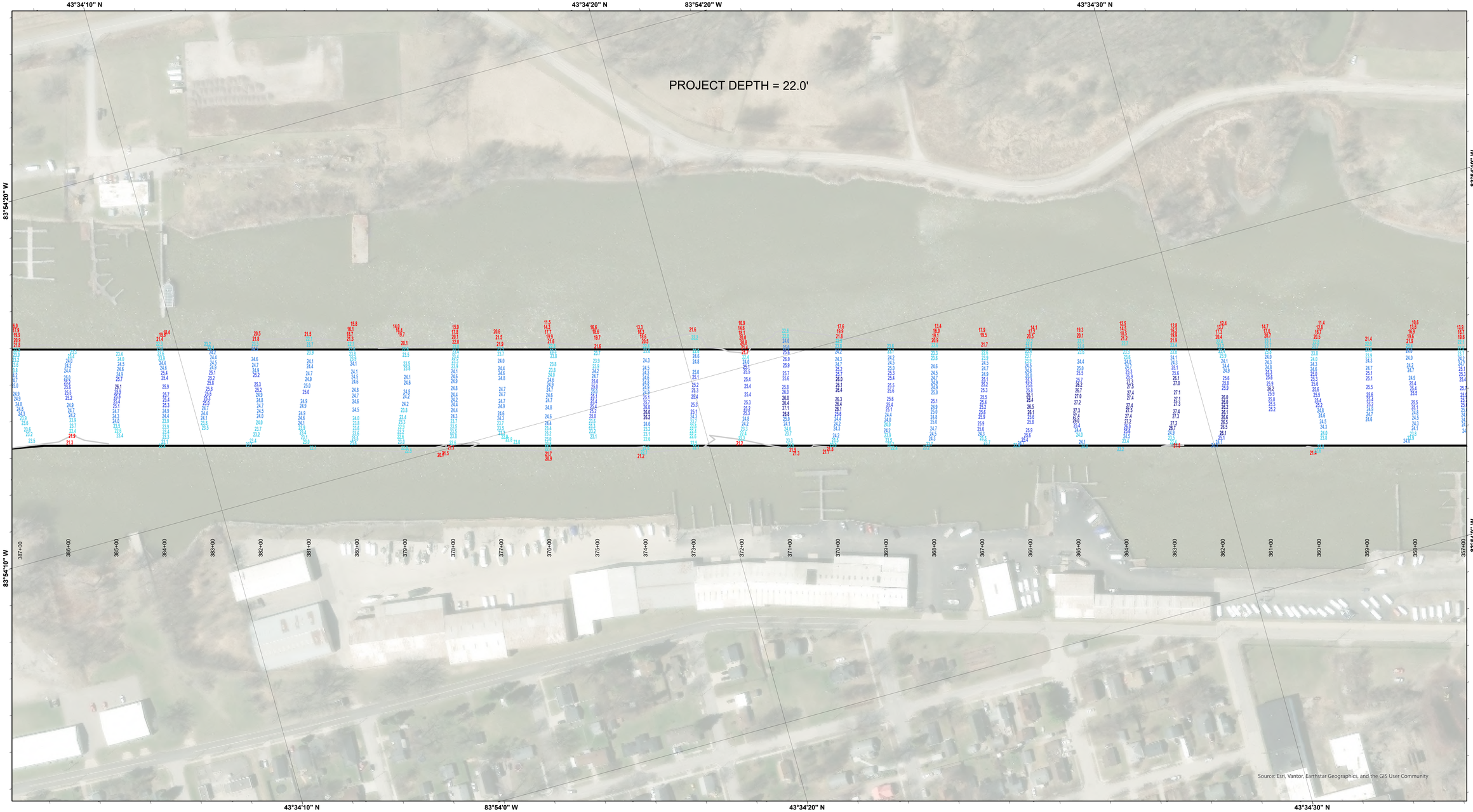
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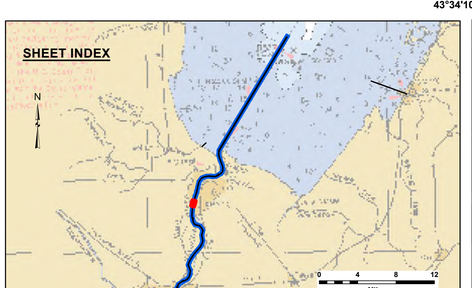
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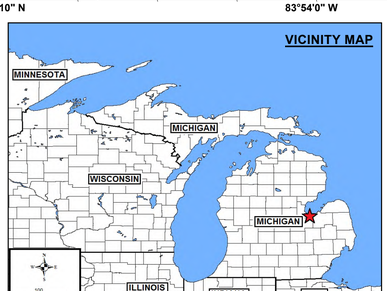
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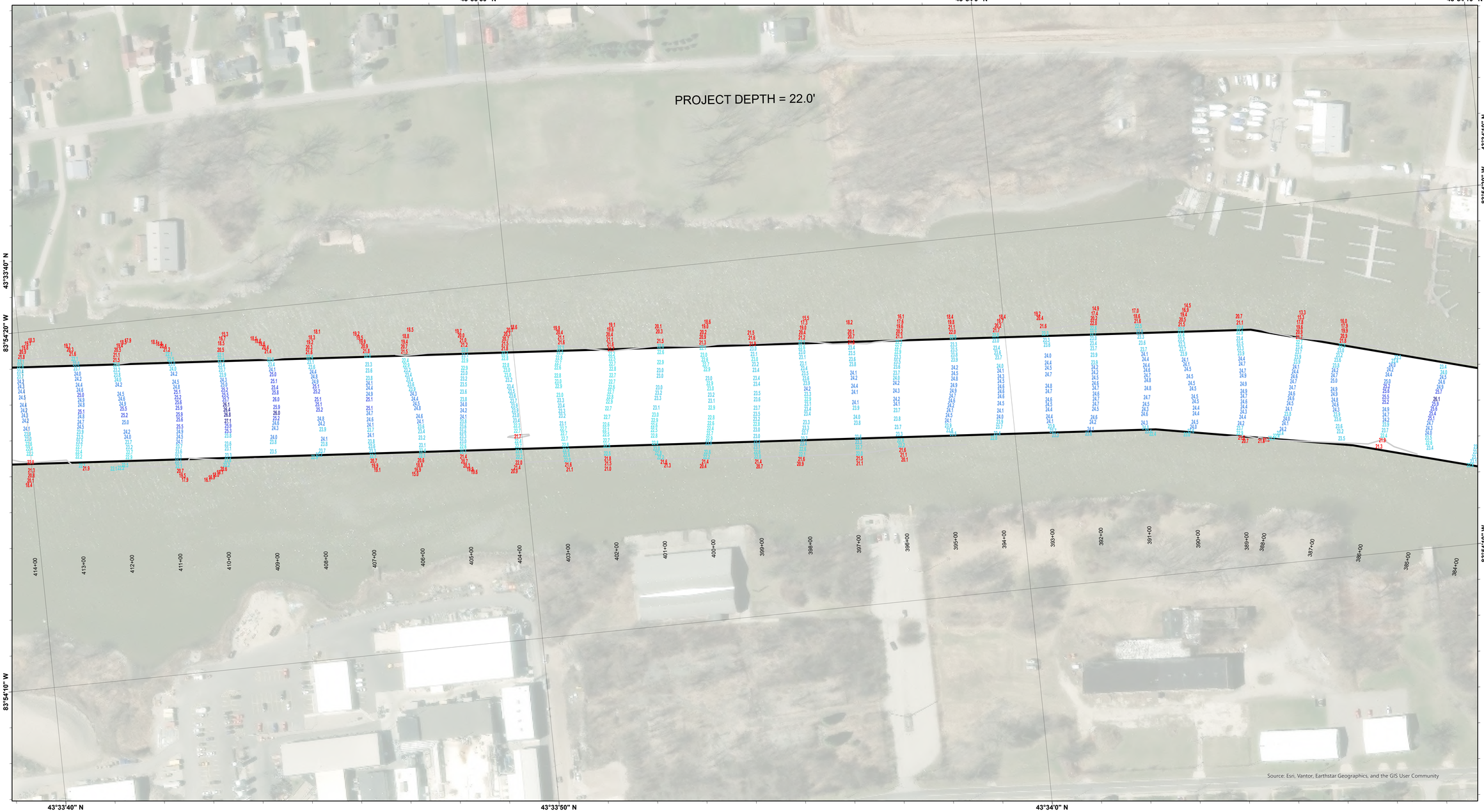
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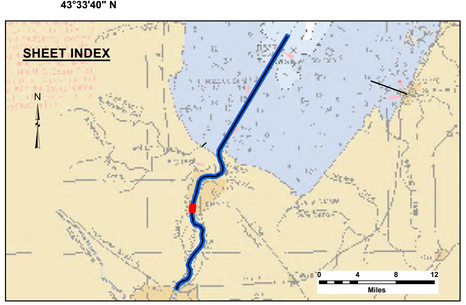
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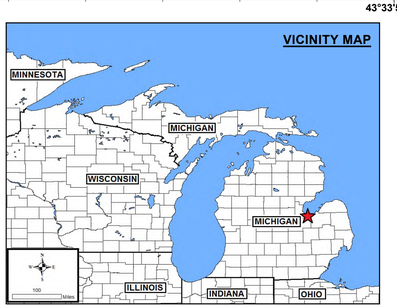
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PROJECT DEPTH RANGE FROM 20.0' TO 27.0'

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SONAR: R2SONIC 2024 (MULTIBEAM) OR ODOM CV-300 (SINGLEBEAM)
SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT
ALL COORDINATES ARE IN U.S. SURVEY FEET.

US Army Corps of Engineers
District: CELRE

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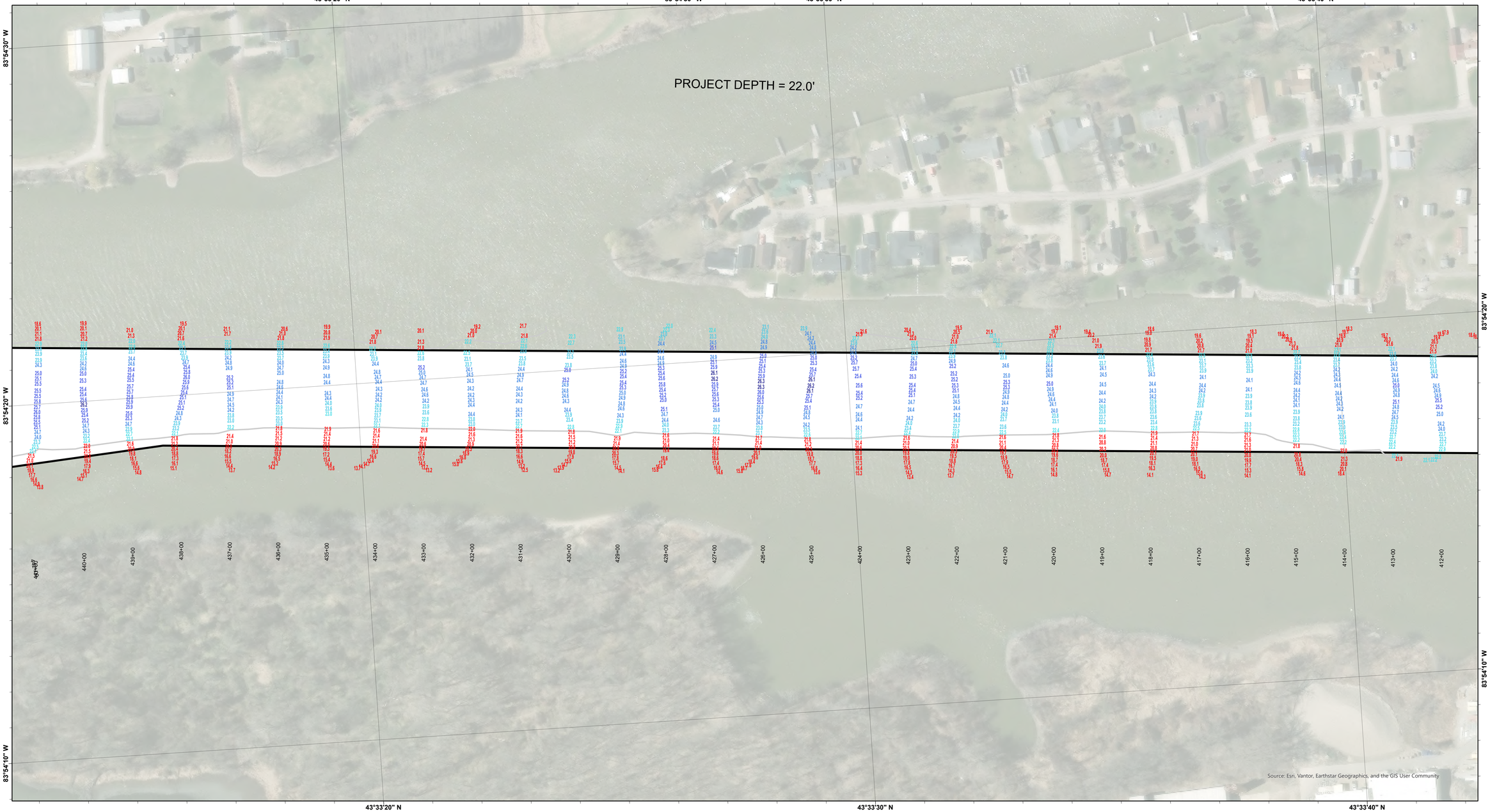
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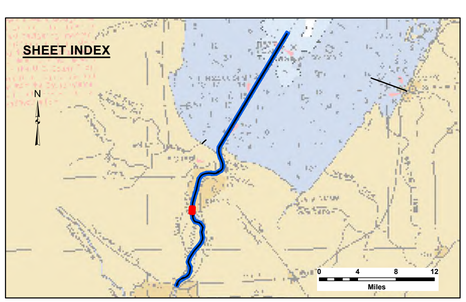
Surveyed By:		Plotted By:	Checked By:
Submitted:		Recommended: Chief, Survey Section	
		Approved: Chief, Technical Services	

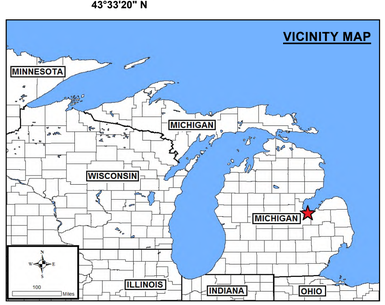
Saginaw, MI
Saginaw River
SH_01_SAG_20260622_CS
22 June 2026

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Revision Number:
5.26.04.06-5.26.04.06







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

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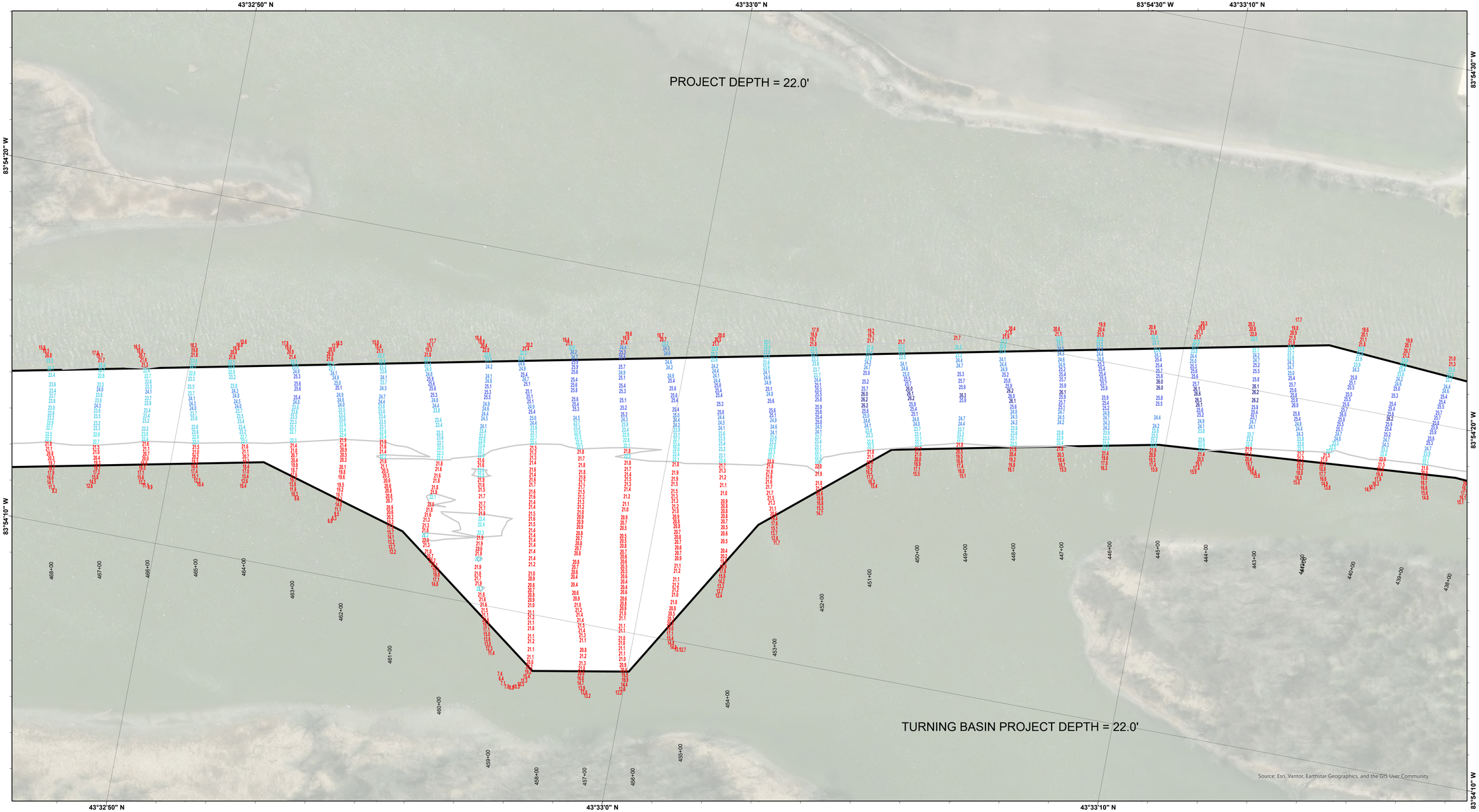
POSITIONING:APPLANIX POS-MV4 W/ VRS/RTK OR MARINESTAR GNSS.
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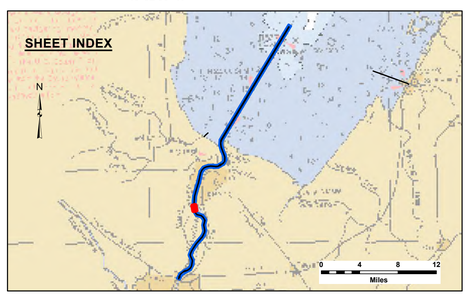
AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT
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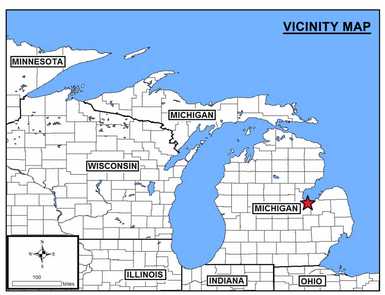
US Army Corps of Engineers
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LEGEND

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US Army Corps of Engineers
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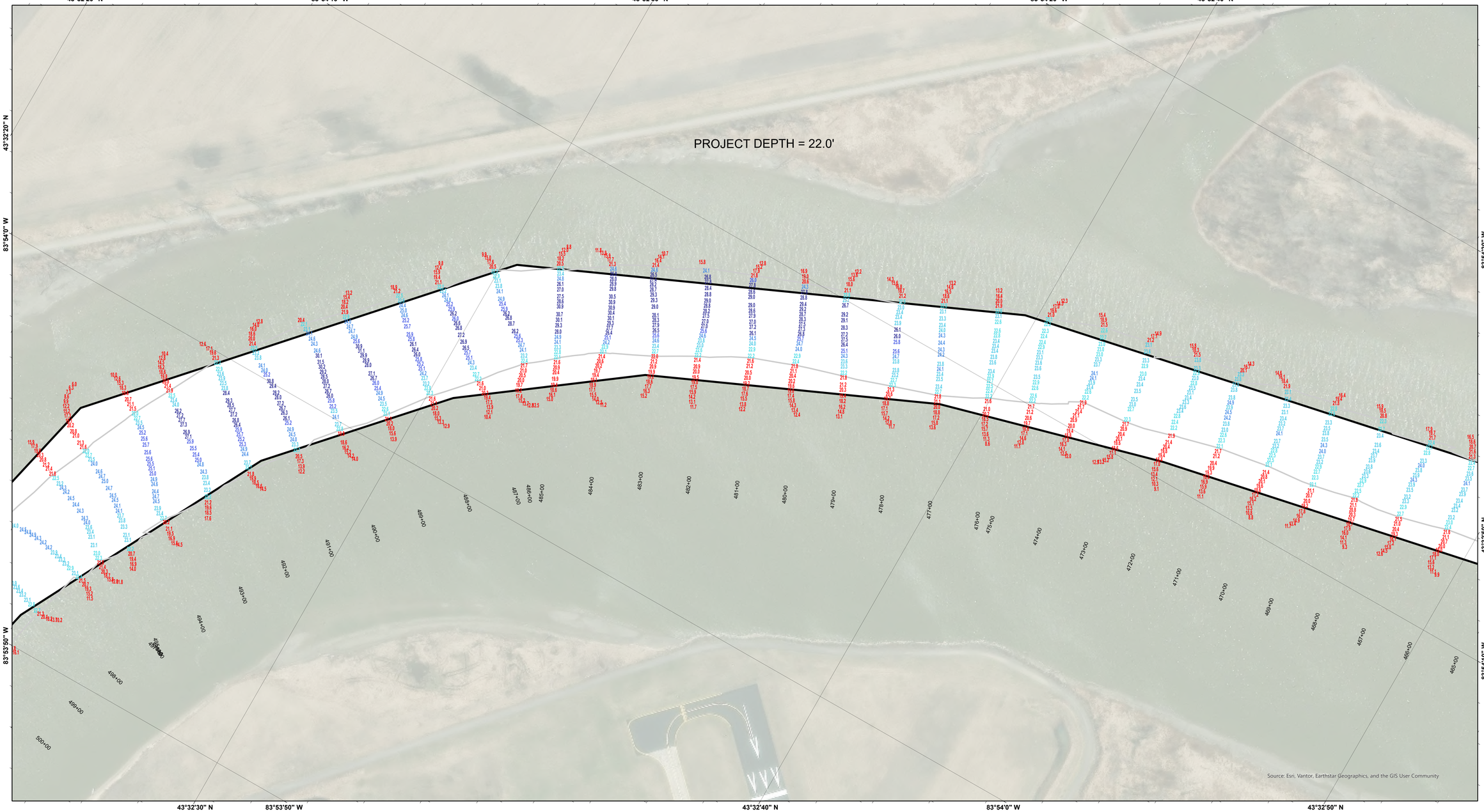
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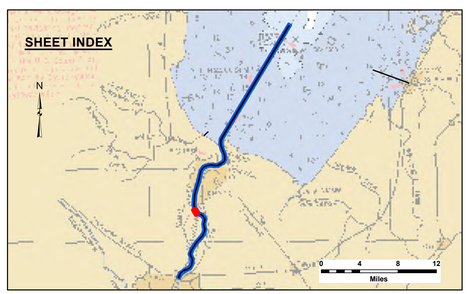
Submitted:		Surveyed By:	
Recommended:	Chief, Survey Section	Plotted By:	
Approved:	Chief, Technical Services	Checked By:	

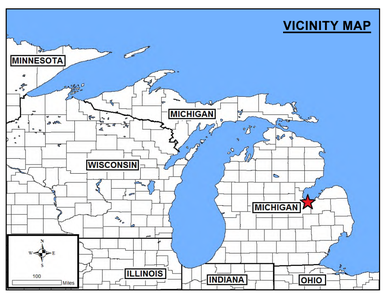
Saginaw, MI
Saginaw River
SH_01_SAG_20260622_CS
22 June 2026

Sheet Reference Number
45 of 62

Revision Number:
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LEGEND

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US Army Corps of Engineers
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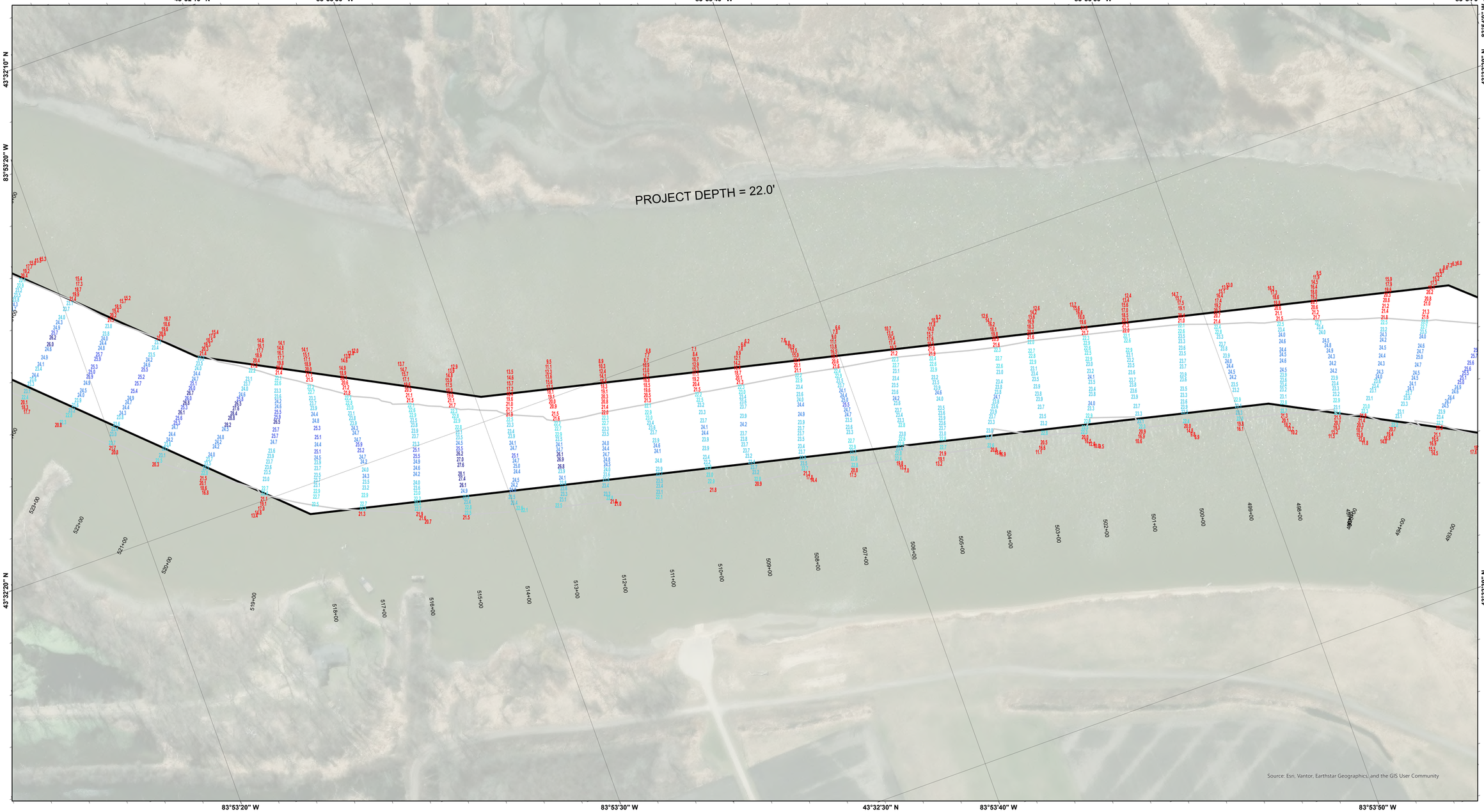
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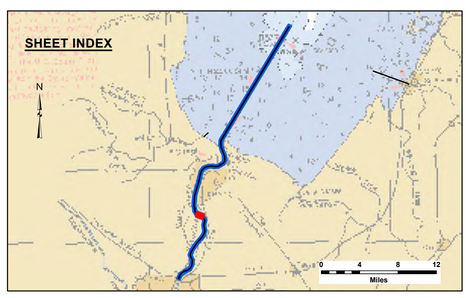
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Recommended: Chief, Survey Section	Plotted By: ____	Checked By: ____
Approved: Chief, Technical Services		

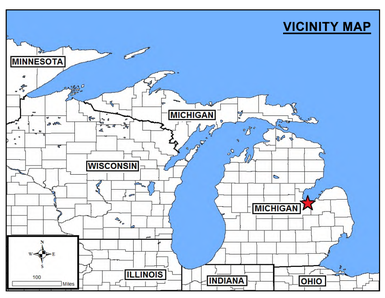
Saginaw, MI
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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Saginaw, MI
Saginaw River
SH_01_SAG_20260622_CS
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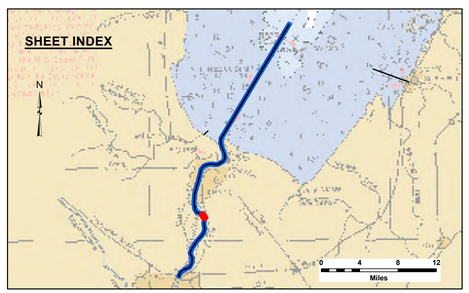
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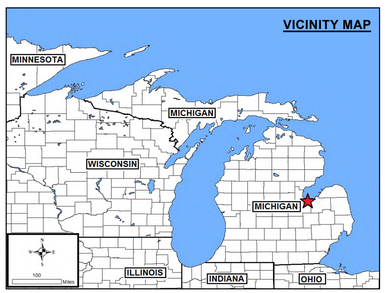
83°53'0" W 83°52'50" W

43°32'20" N

PROJECT DEPTH = 22.0'

Source: Esri, Vantor, Earthstar Geographics, and the GIS User Community





LEGEND

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Feet 0 100 200 300 400

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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Saginaw, MI
Saginaw River
SH_01_SAG_20260622_CS
22 June 2026

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43°31'30" N 43°31'40" N 43°31'50" N 83°53'10" W

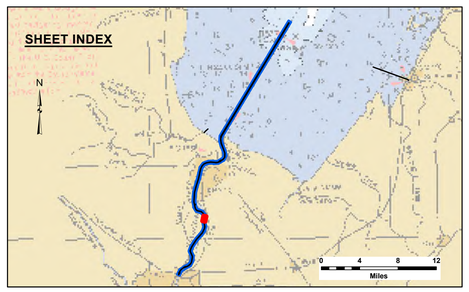
PROJECT DEPTH = 22.0'

83°53'10" W 83°53'0" W 83°52'50" W

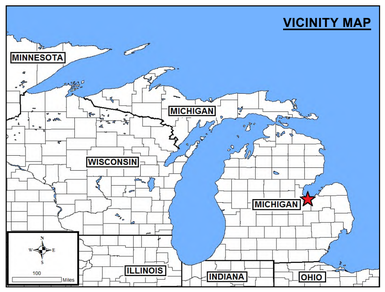
43°31'30" N 43°31'40" N 83°52'50" W 43°31'50" N

Source: Esri, Vantor, Earthstar Geographics, and the GIS User Community

SHEET INDEX



VICINITY MAP



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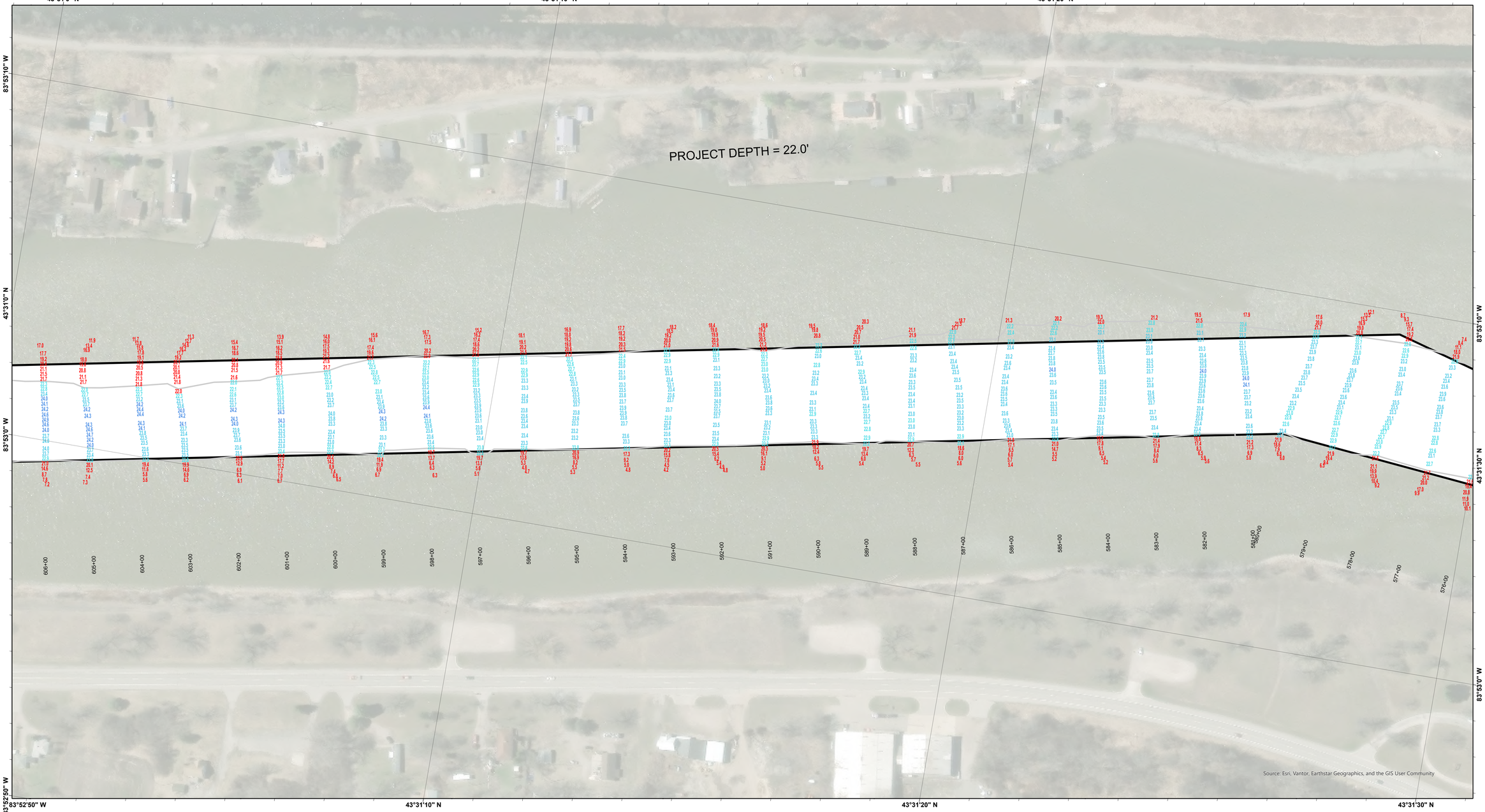
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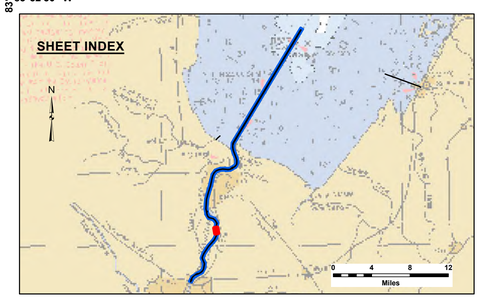
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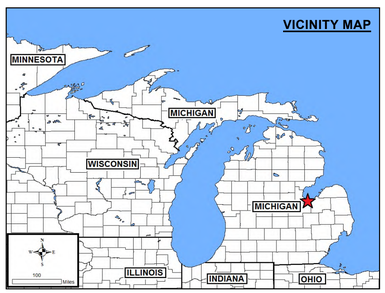
Saginaw, MI
Saginaw River
SH_01_SAG_20260622_CS
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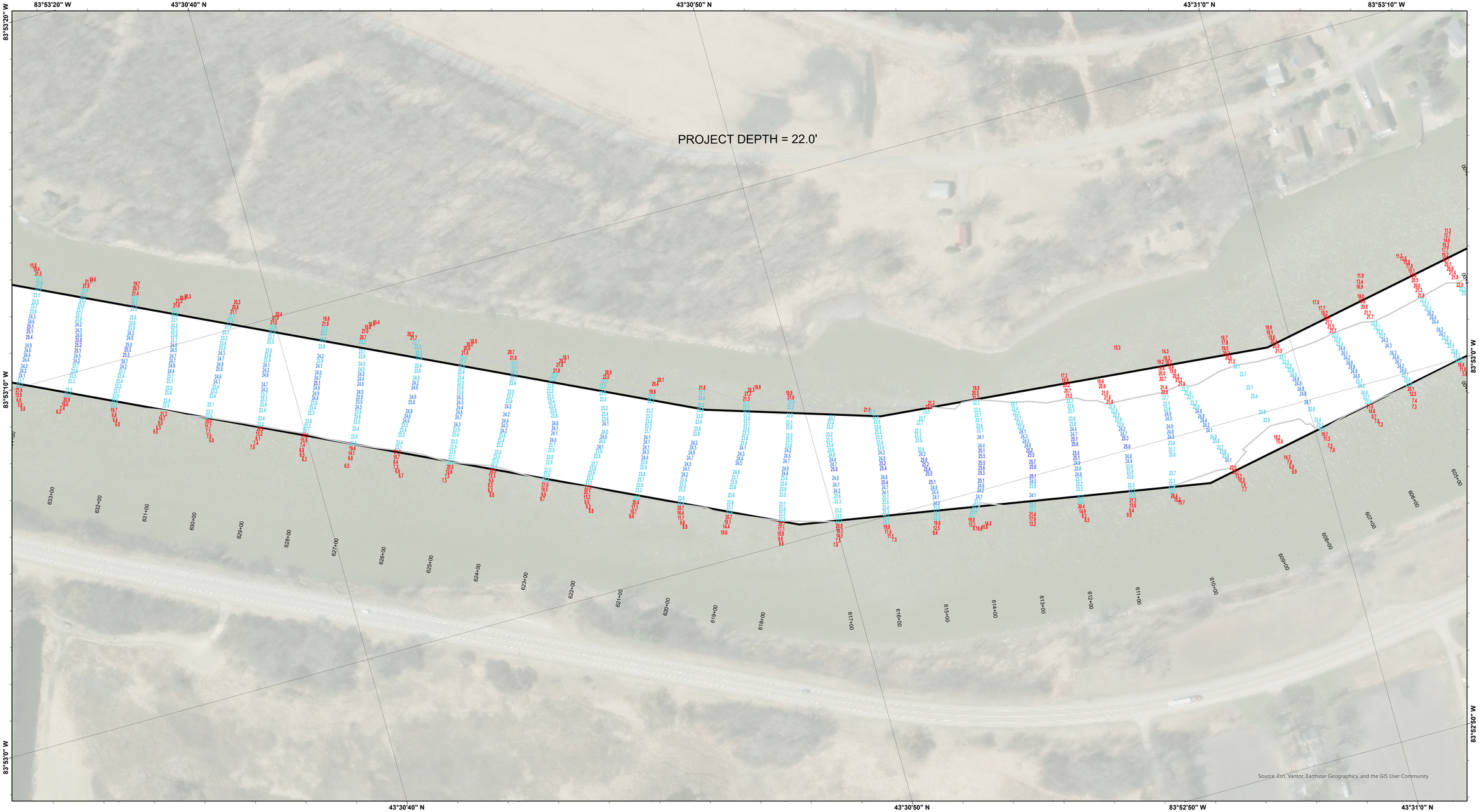
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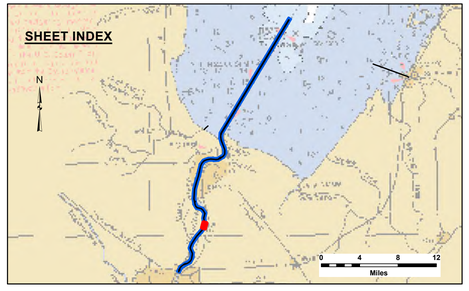
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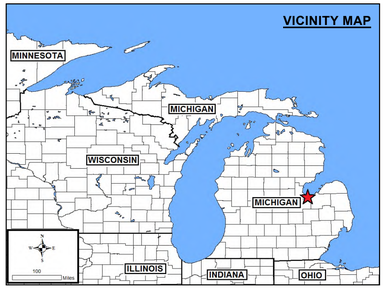
Saginaw, MI
Saginaw River
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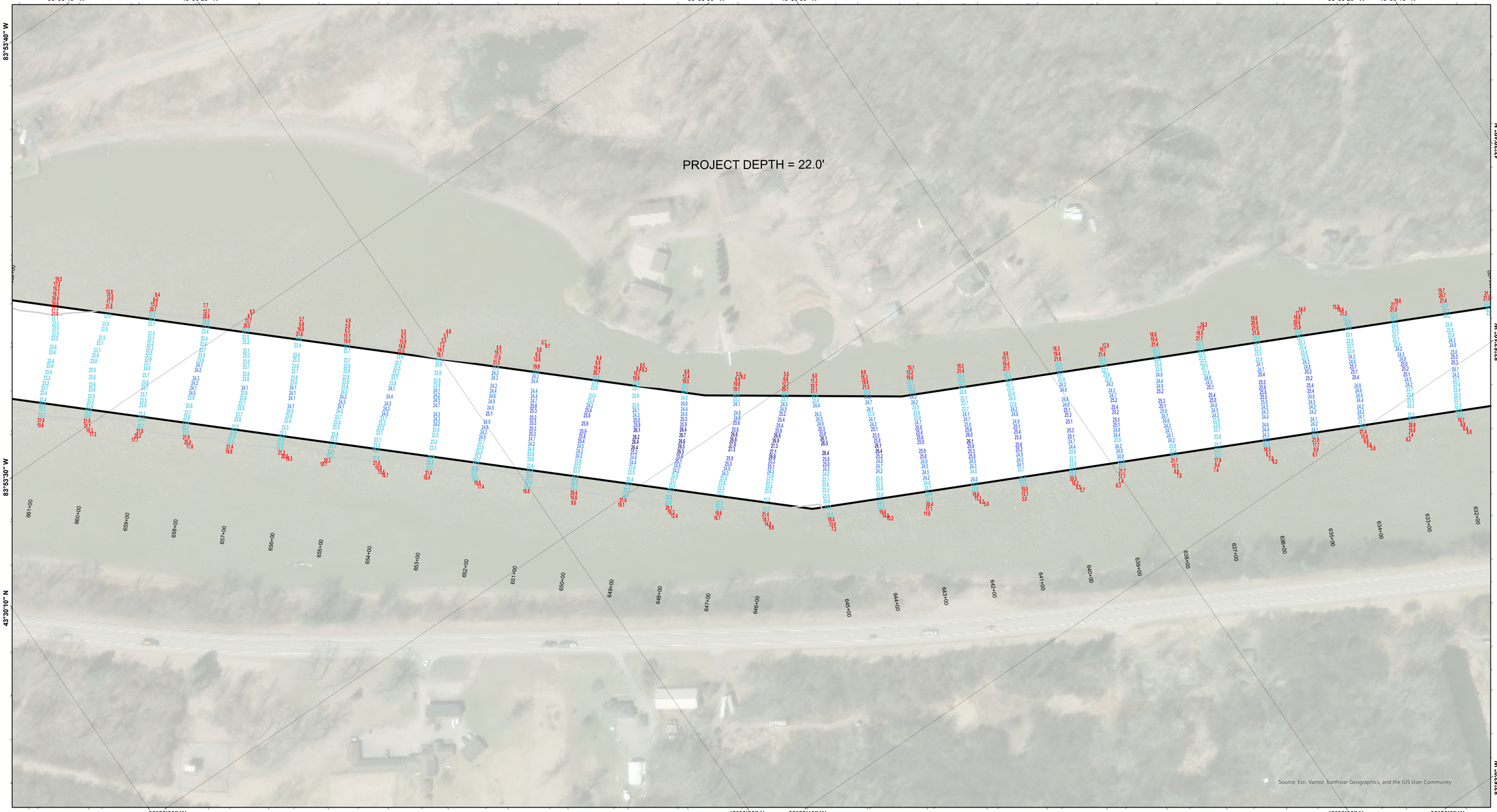
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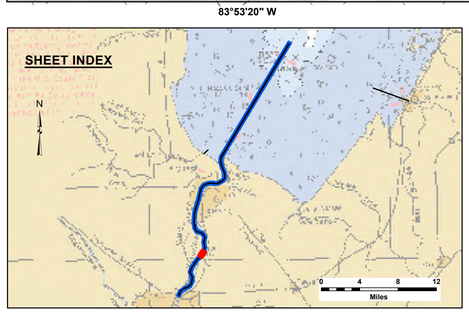
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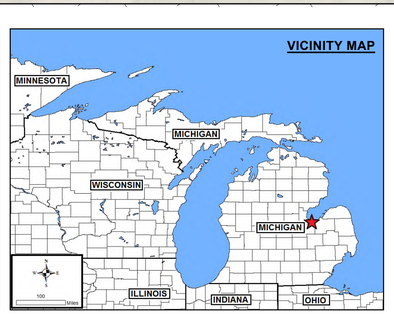
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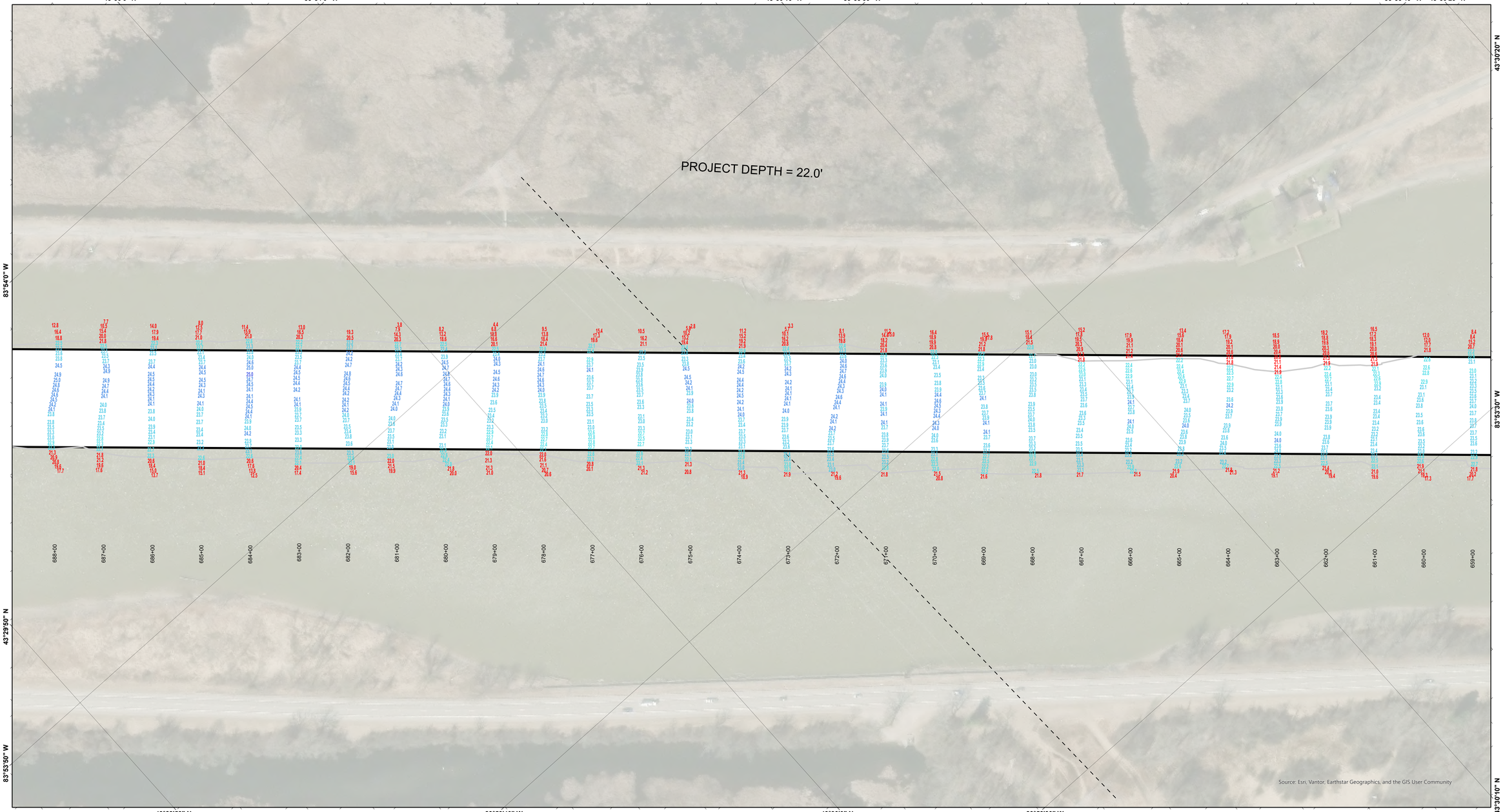
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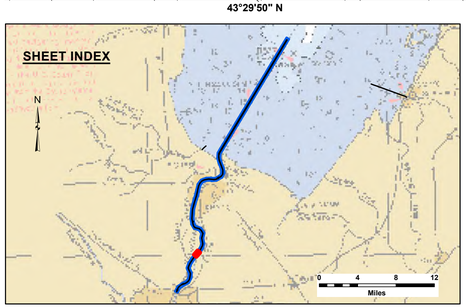
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Recommended: Chief, Survey Section ____
Approved: Chief, Technical Services ____

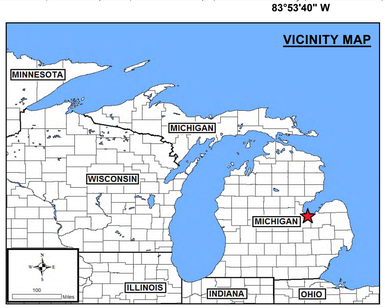
Saginaw, MI
Saginaw River
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LEGEND

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

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SOFTWARE: HYPACK

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT
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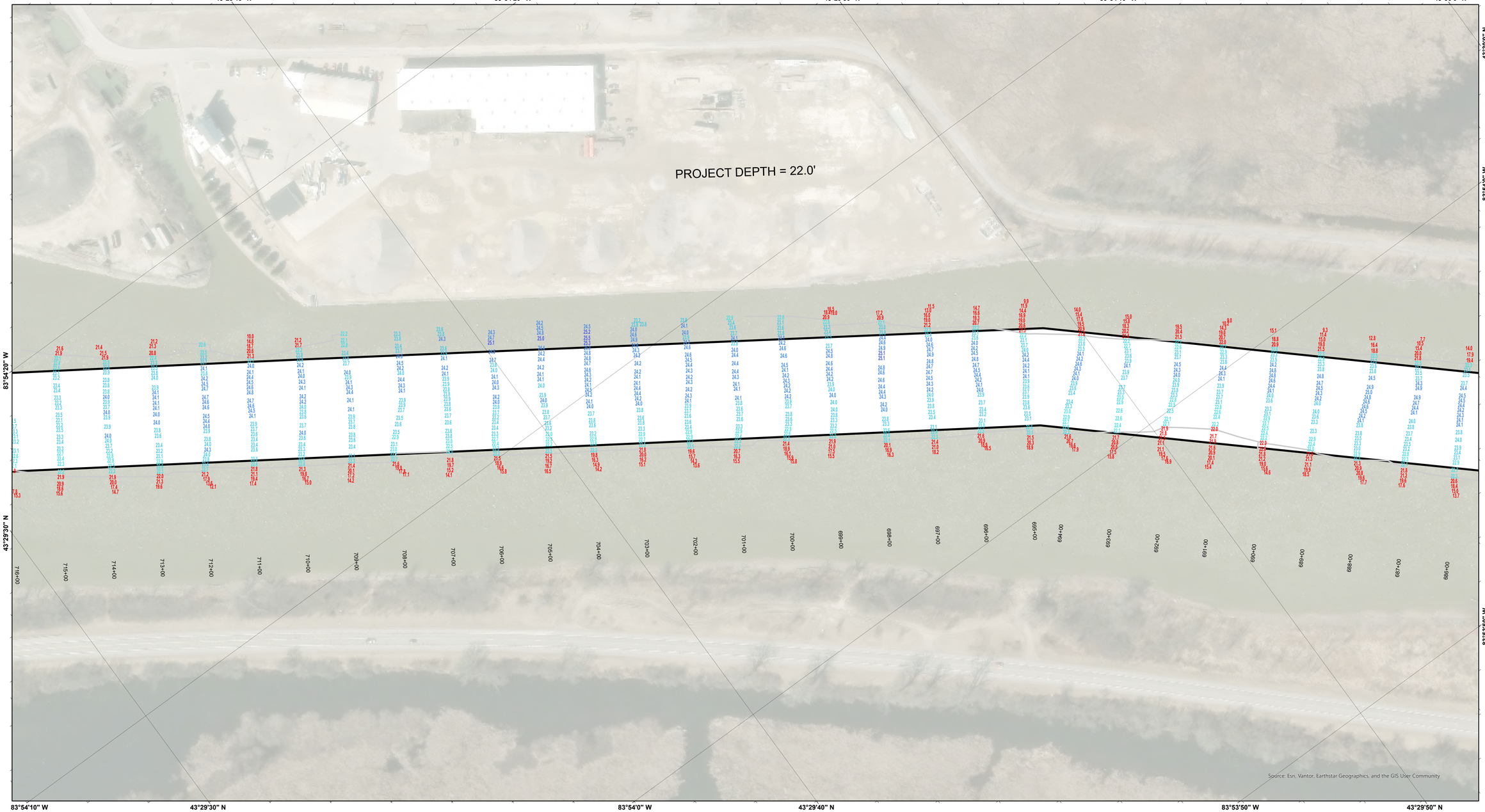
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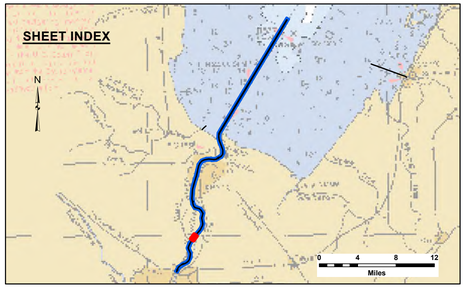
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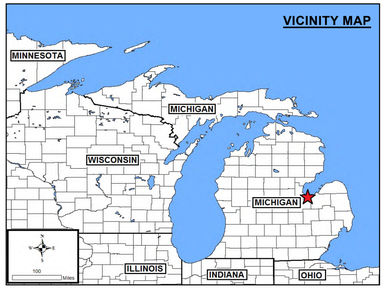
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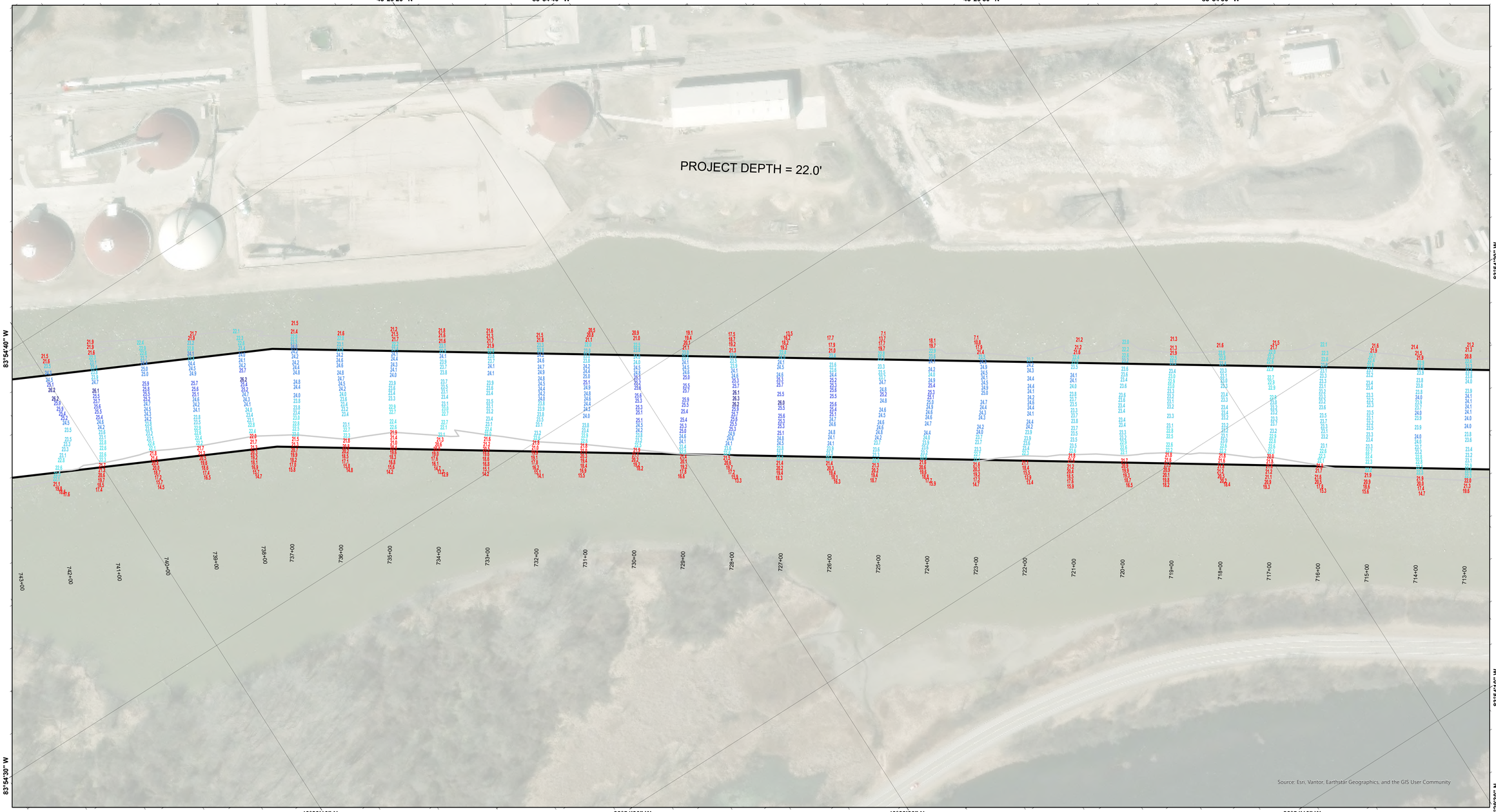
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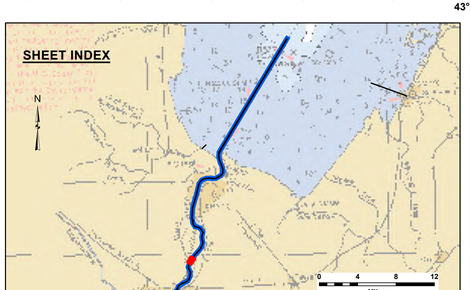
Saginaw, MI
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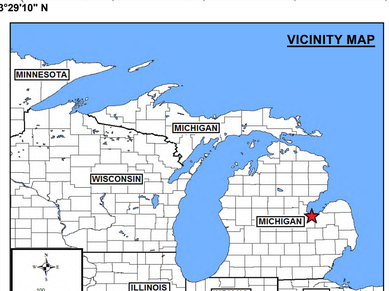
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VICINITY MAP



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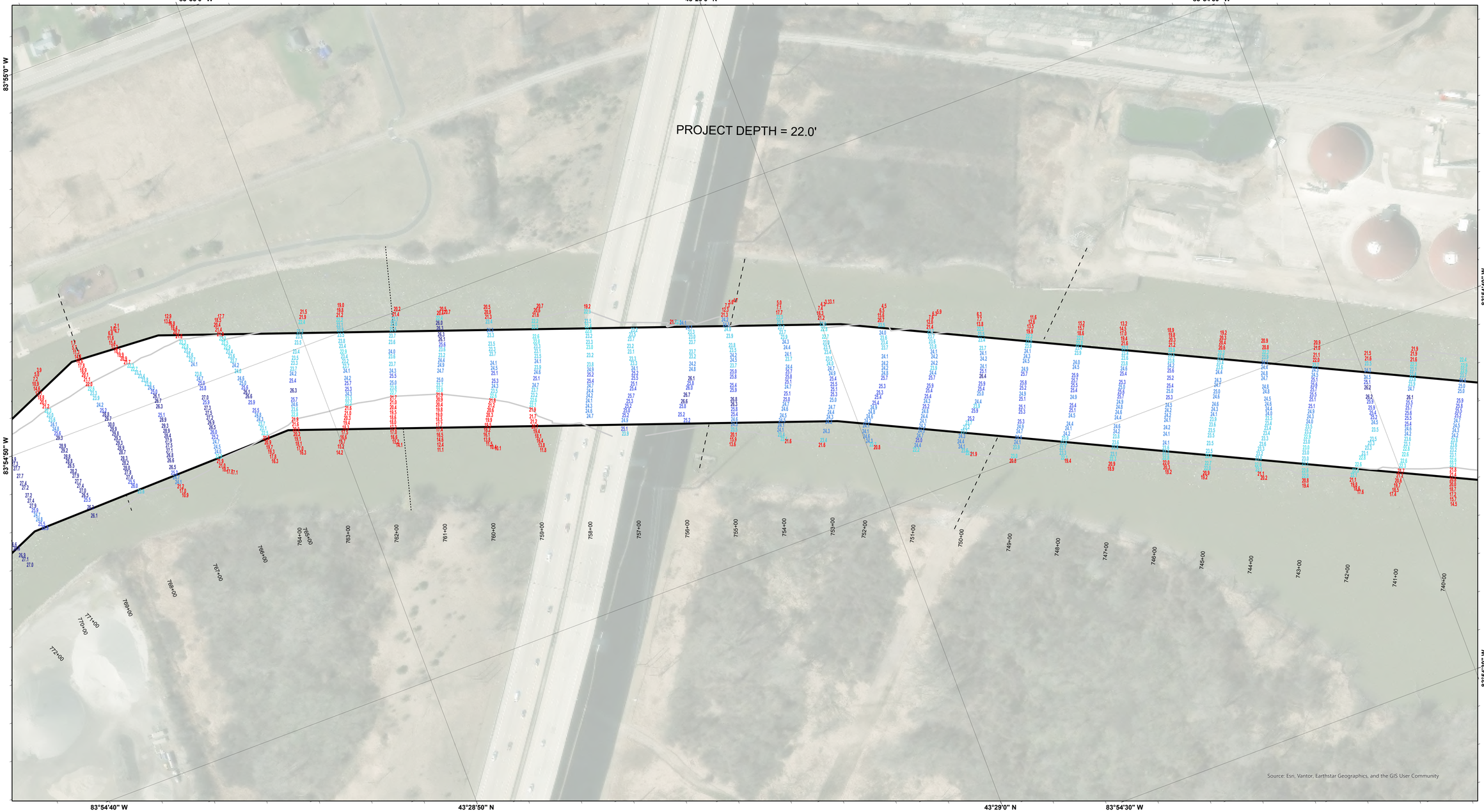
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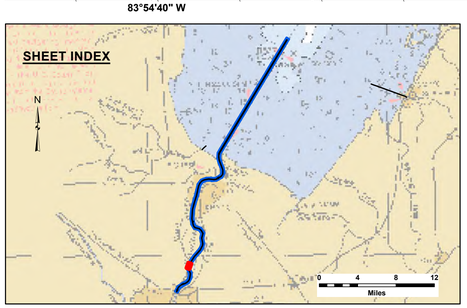
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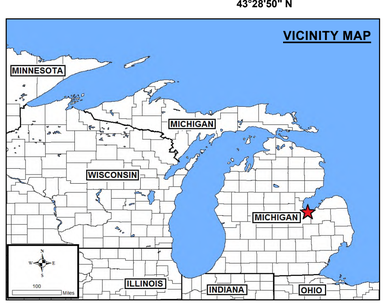
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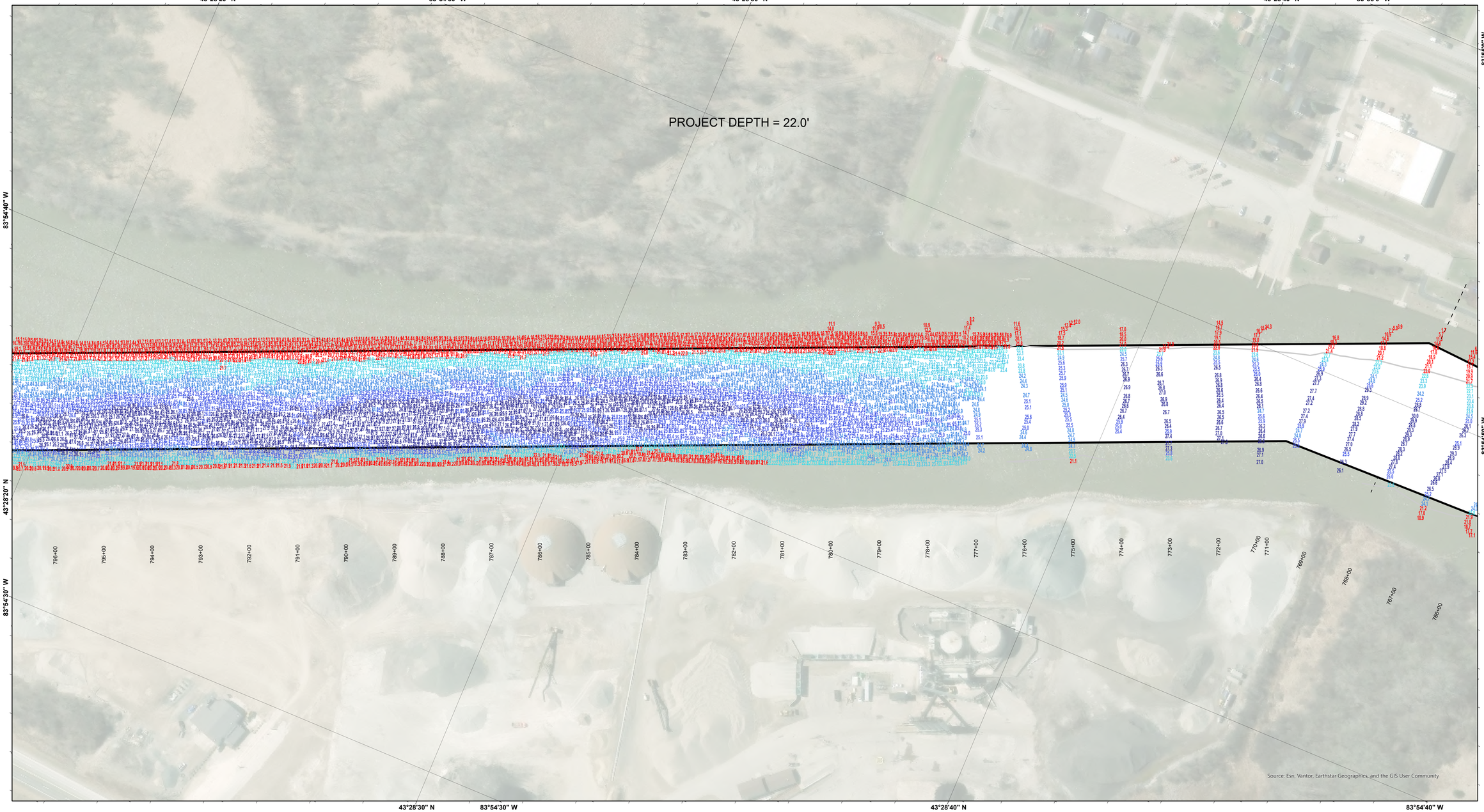
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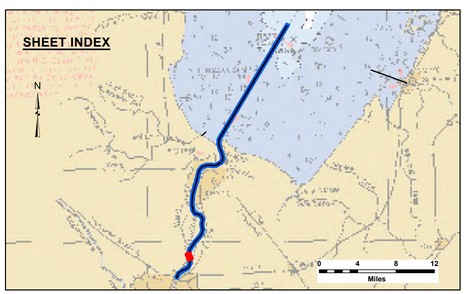
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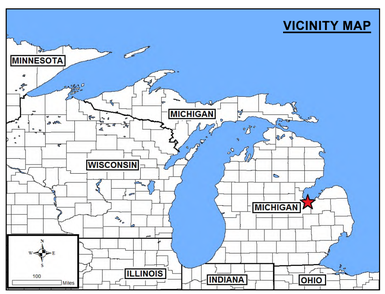
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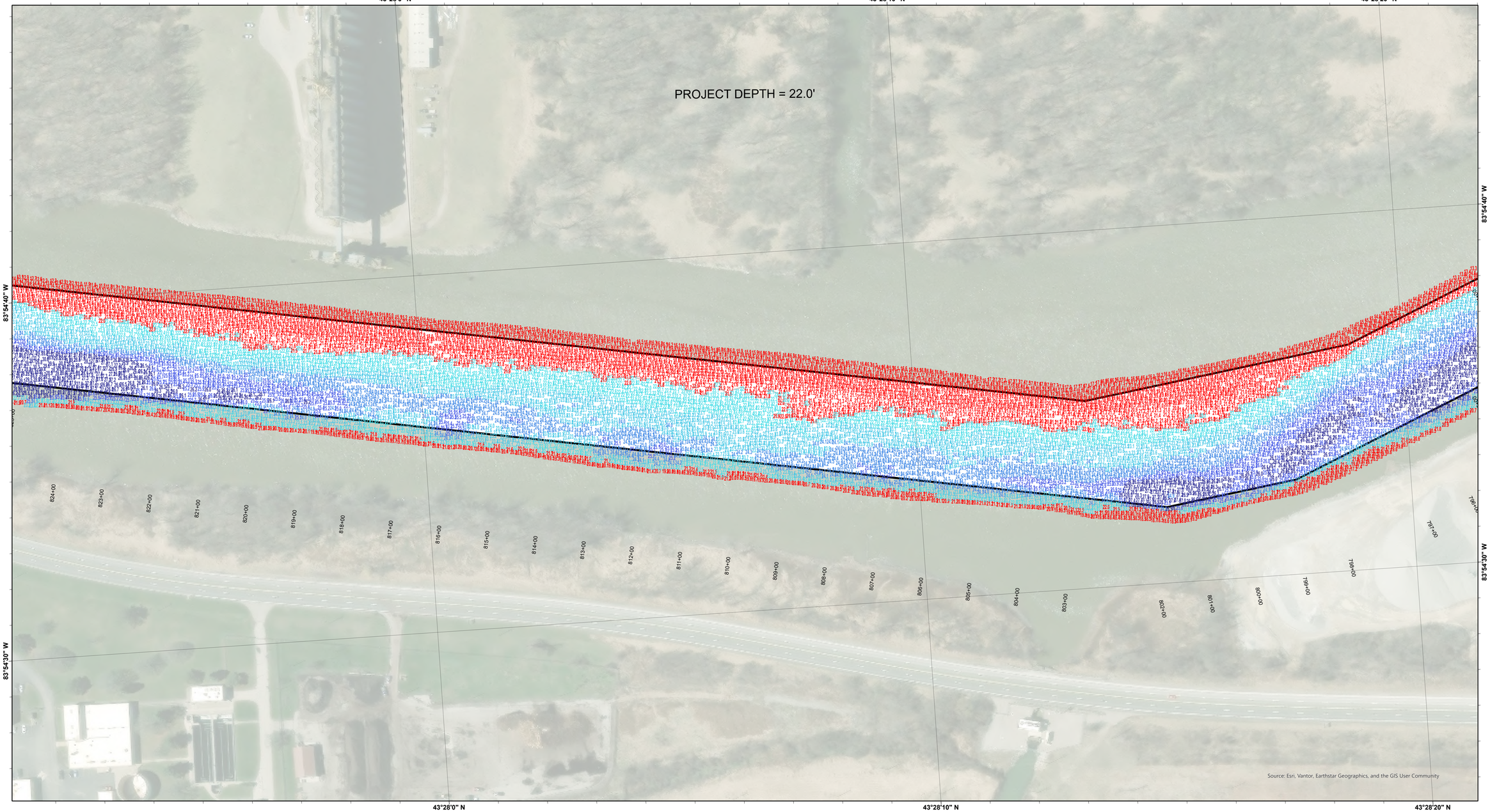
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DETROIT DISTRICT

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

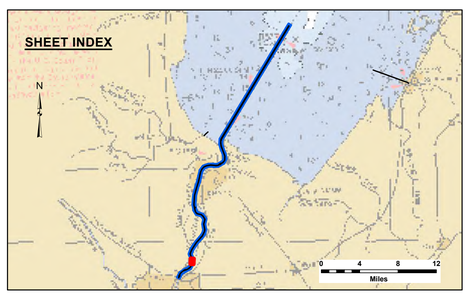
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Saginaw River
SH_01_SAG_20260622_CS
22 June 2026

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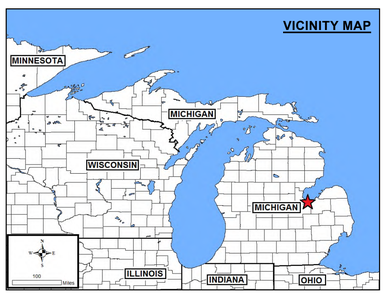
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VICINITY MAP



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

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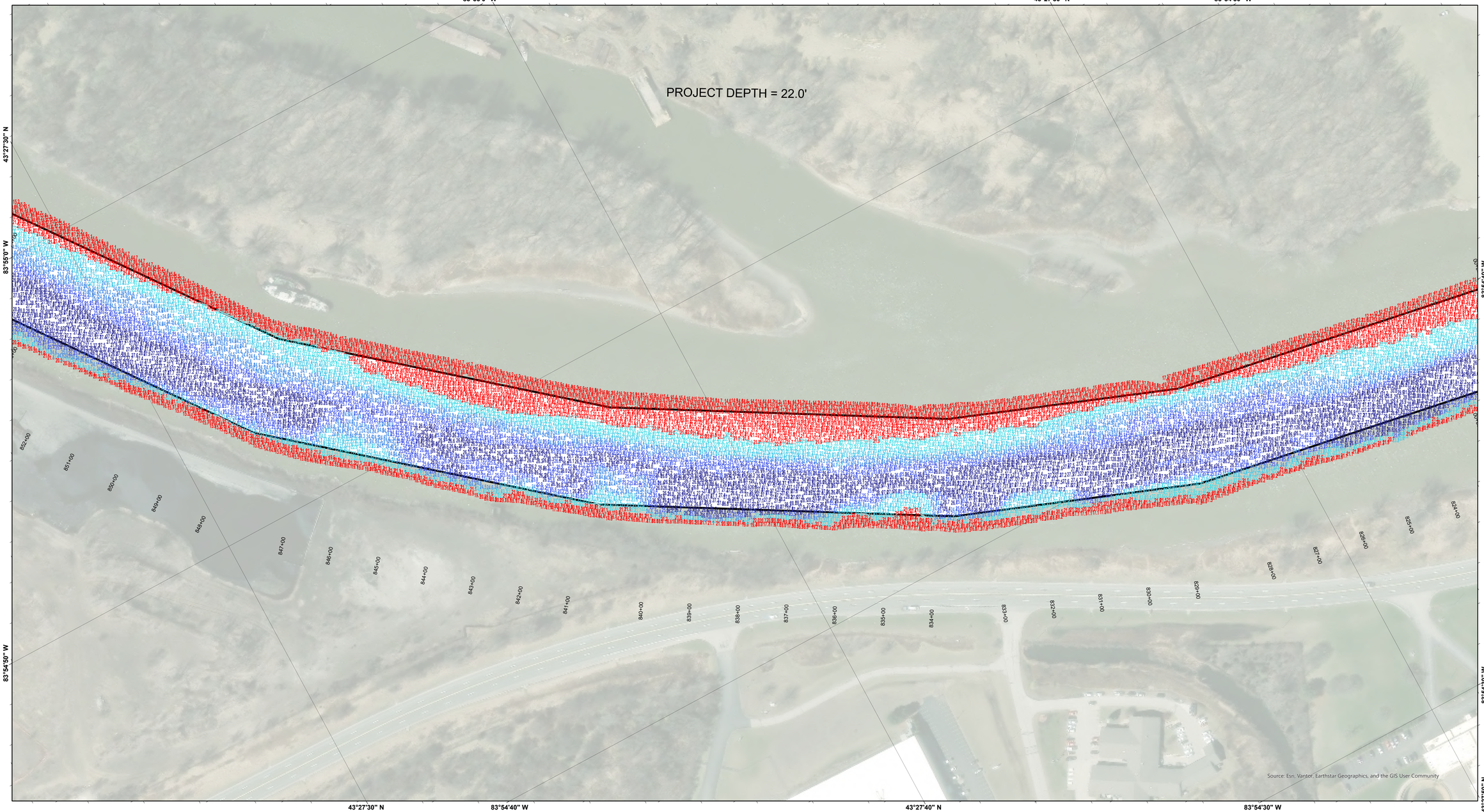
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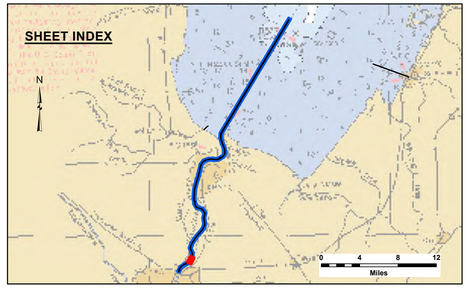
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Approved:	Checked By: ____	Chief, Technical Services

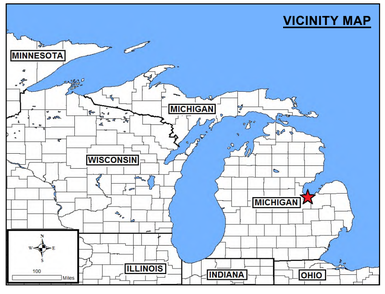
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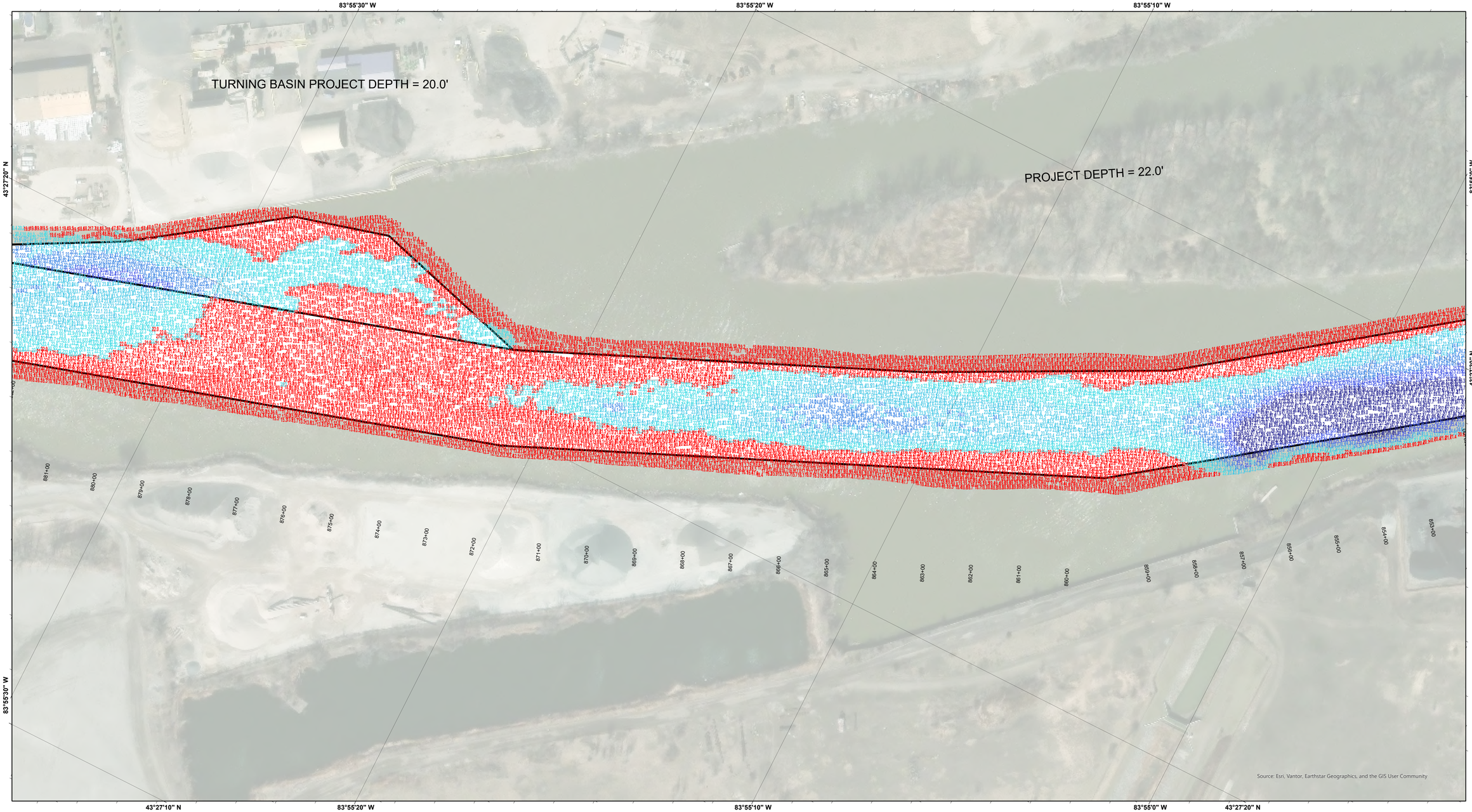
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Recommended: Chief, Survey Section	
Approved: Chief, Technical Services	Checked By:

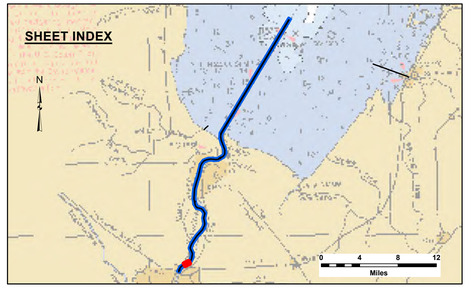
Saginaw, MI
Saginaw River
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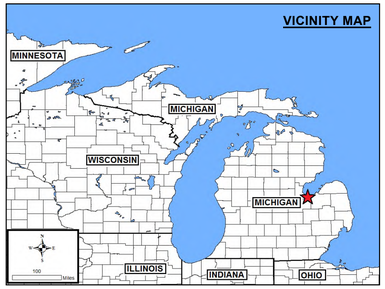
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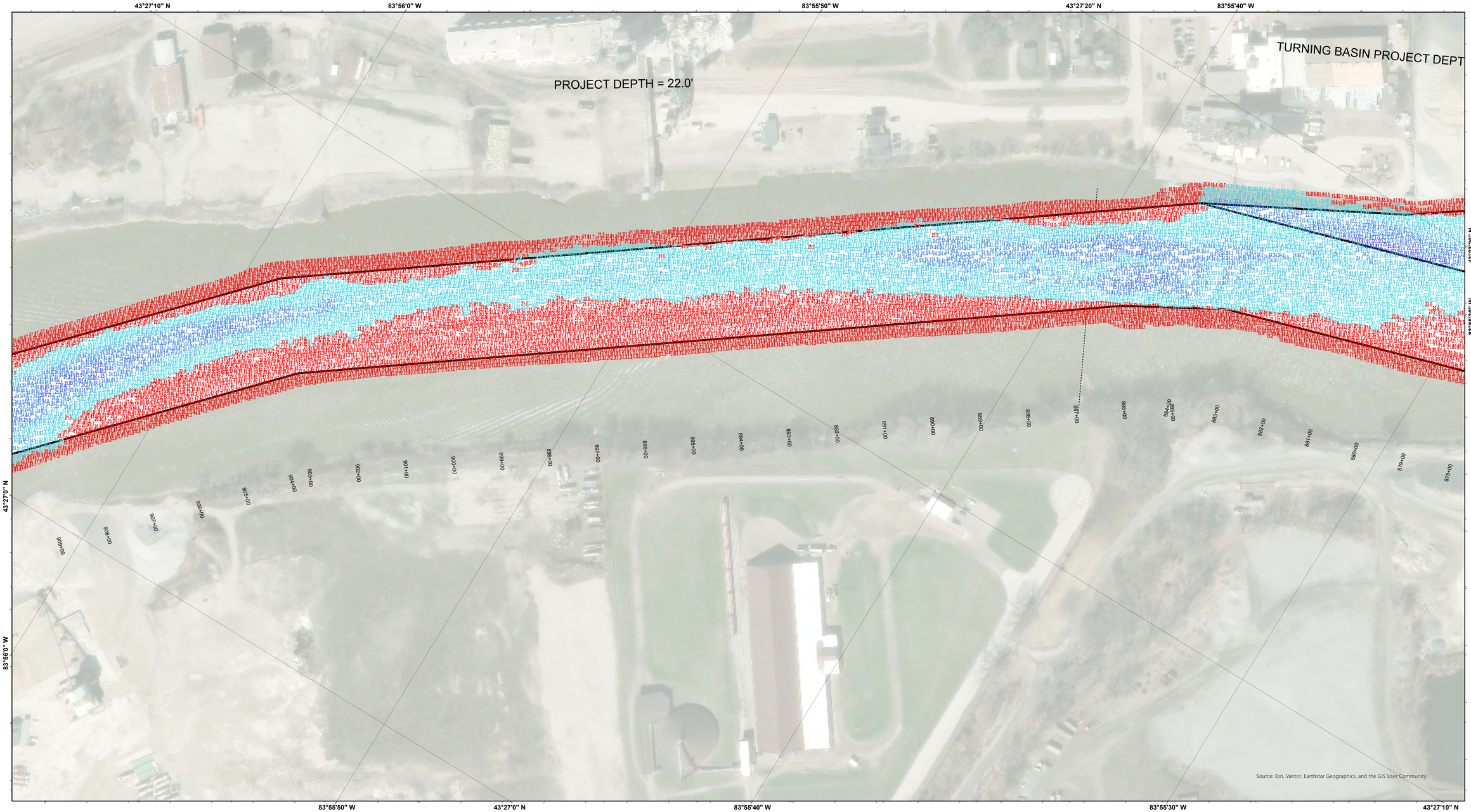
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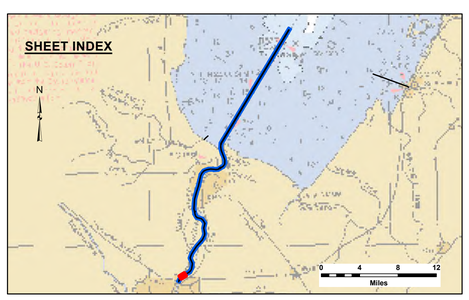
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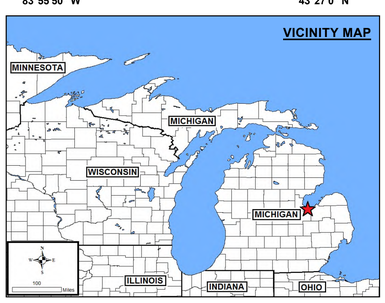
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Submitted: ____ Surveyed By: ____

Recommended: ____ Plotted By: ____

Chief, Survey Section

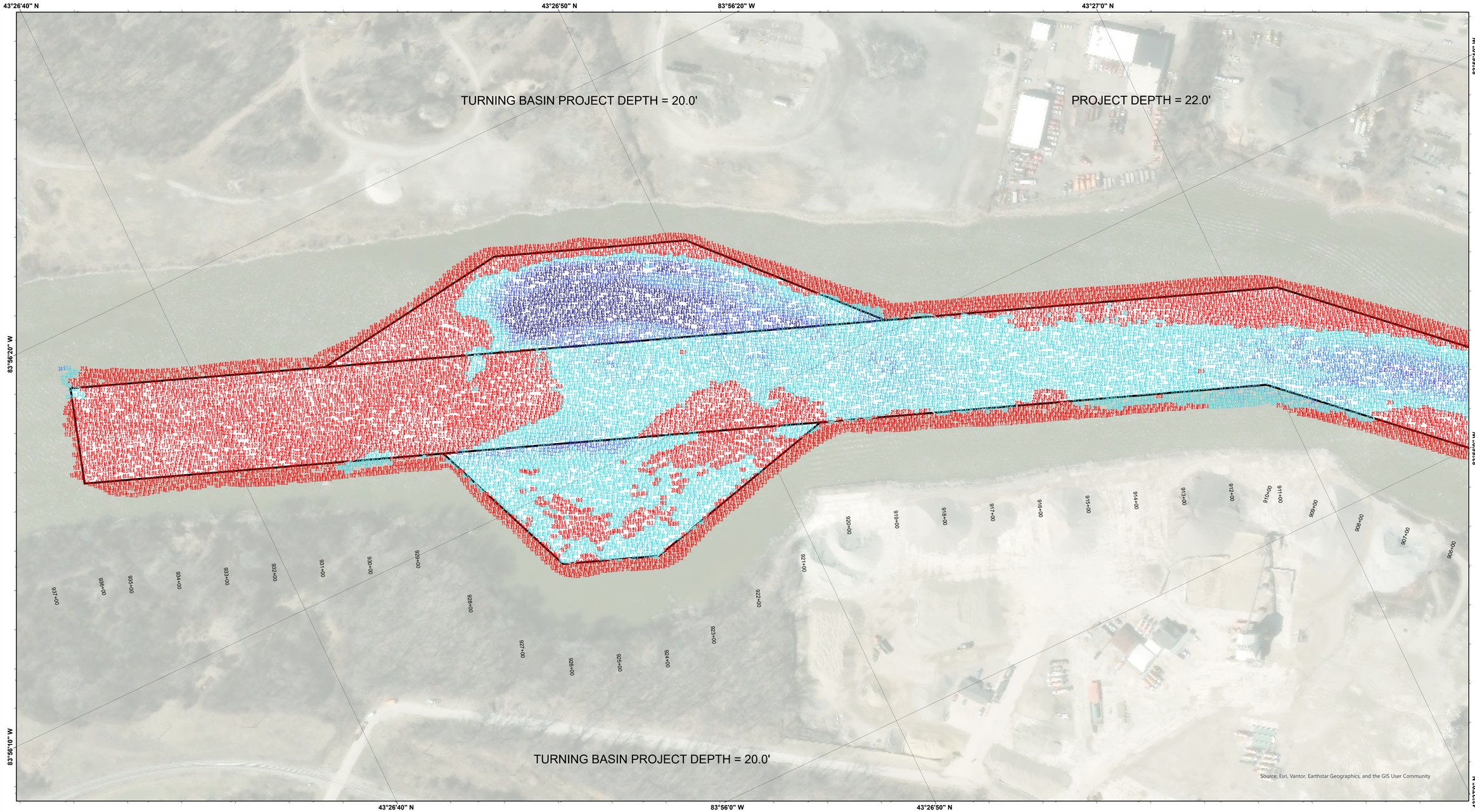
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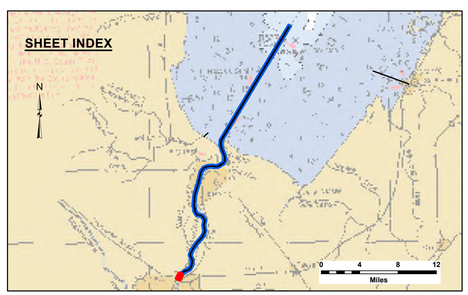
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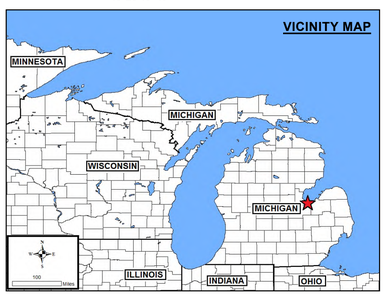
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PROJECT DEPTH RANGE FROM 20.0' TO 27.0'

TIDE VALUES ARE DERRIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATIONS: ESSEXVILLE, MI (9007035) ALONG WITH THE FOLLOWING GAGES: G. BOARD ON PILING NEAR CS 820+00, TBM ZILL RAMP, TBM CHEB, TBM CASS RAMP, TBM RAILROAD [ESTABLISHED FROM COE VERTICAL CP BM 36], TBM SAIL AT THE FOOT OF THE 5TH STREET, G.BOARD
ON THE D.STREAM WESTERN PIER OF THE CENTRAL MICHIGAN R.R. BRIDGE [GAGE BOARD WAS ESTABLISHED FROM NGS BM HL MON 25 USE], G.BOARD ON THE DOWNSTREAM END OF THE CENTER PIER OF THE LAKE STATE RAILROAD BRIDGE [ESTABLISHED FROM NGS BM HL MON 16 USE (PID OJ0534)], G.BOARD ON THE D.STREAM END OF THE CTR PIER OF LAKE STATE R.R. BRIDGE, G.BOARD SET ON THE PILING AT THE MOUTH OF THE BLACK RIVER ON THE NORTH SIDE NEAR THE RAILROAD TRESTLE

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

AERIAL PHOTOGRAPHY DATA SOURCE: MAXAR, MICROSOFT
ALL COORDINATES ARE IN U.S. SURVEY FEET.

US Army Corps of Engineers
District: CELRE

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U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT

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

Saginaw, MI
Saginaw River
SH_01_SAG_20260622_CS
22 June 2026

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