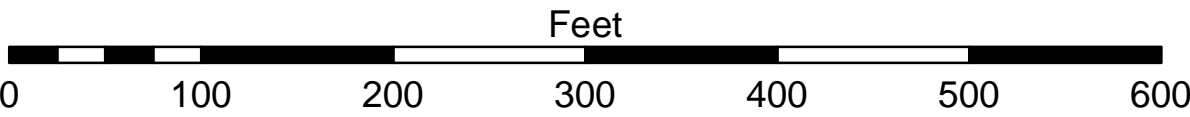


- LEGEND**
- Cable Submarine
  - - - Cable Overhead
  - Placement Area
  - Beacon, General
  - Contour Lines
  - Channel Limits

- 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



**NOTES:**

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FOR MULTIBEAM SURVEYS:  
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TIDE VALUES ARE DERRIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATIONS.

ST CLAIR SHORES, MI (#9034052)

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

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

Channels in Lake St. Clair, MI  
Channels of Lake St Clair  
CL\_01\_LSC\_20231017\_CS  
17 October 2023

Sheet  
Reference  
Number  
2 of 30

Revision Number:  
4.2-2023040420



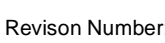
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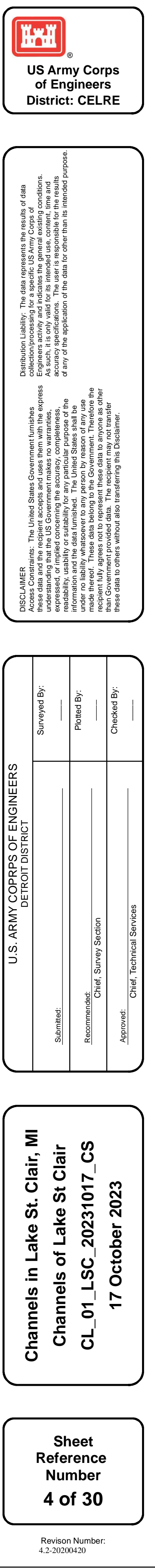
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Submitted:	Surveyed By:	
	Plotted By:	
Recommended:	Checked By:	
Approved:	Chief, Technical Services	

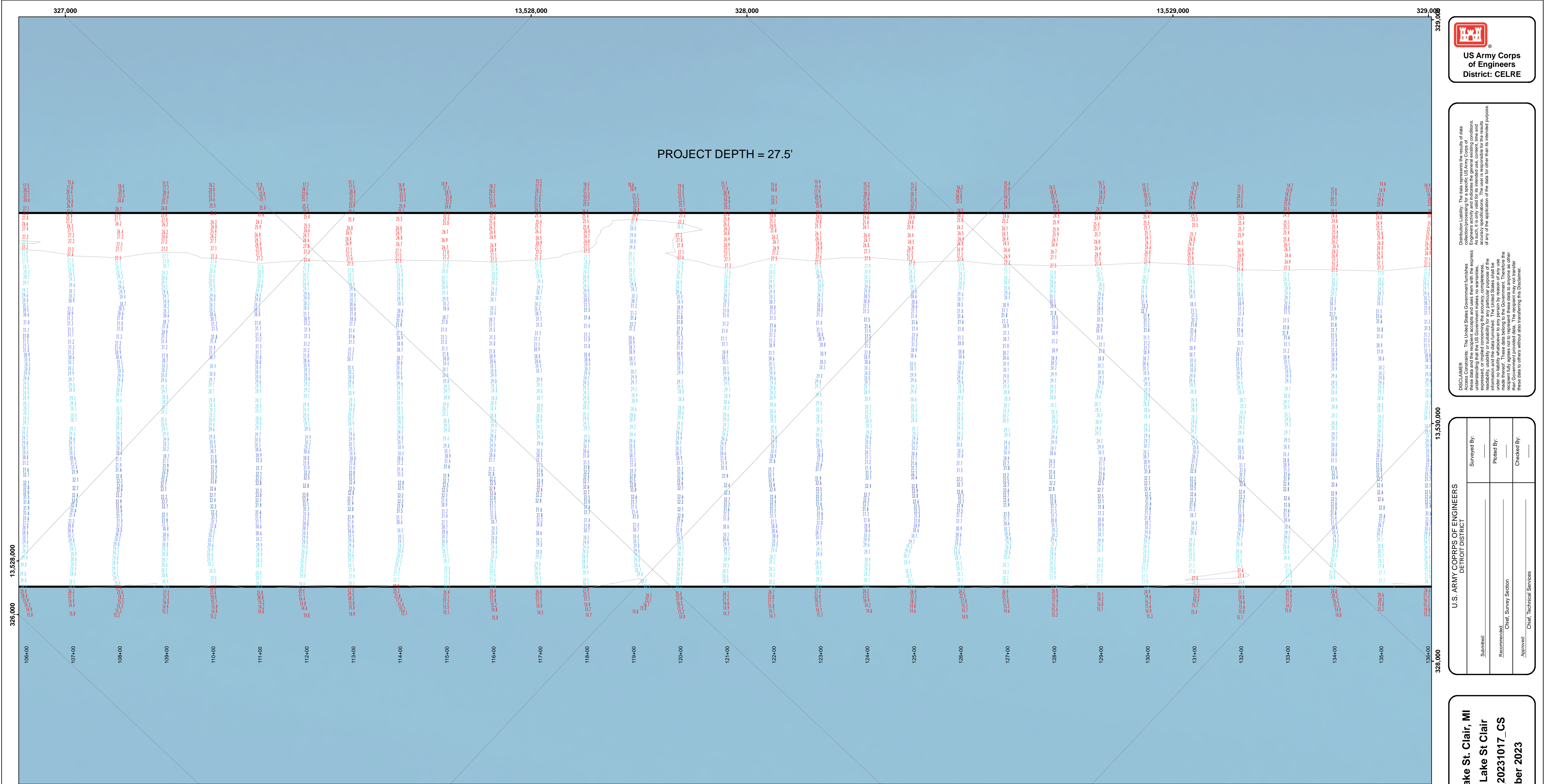








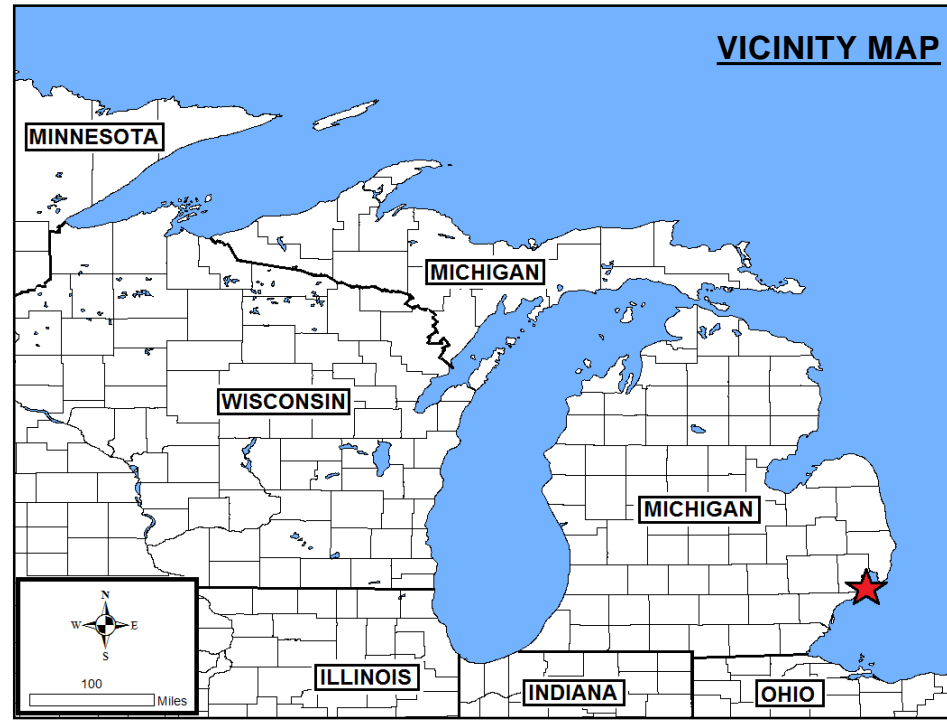
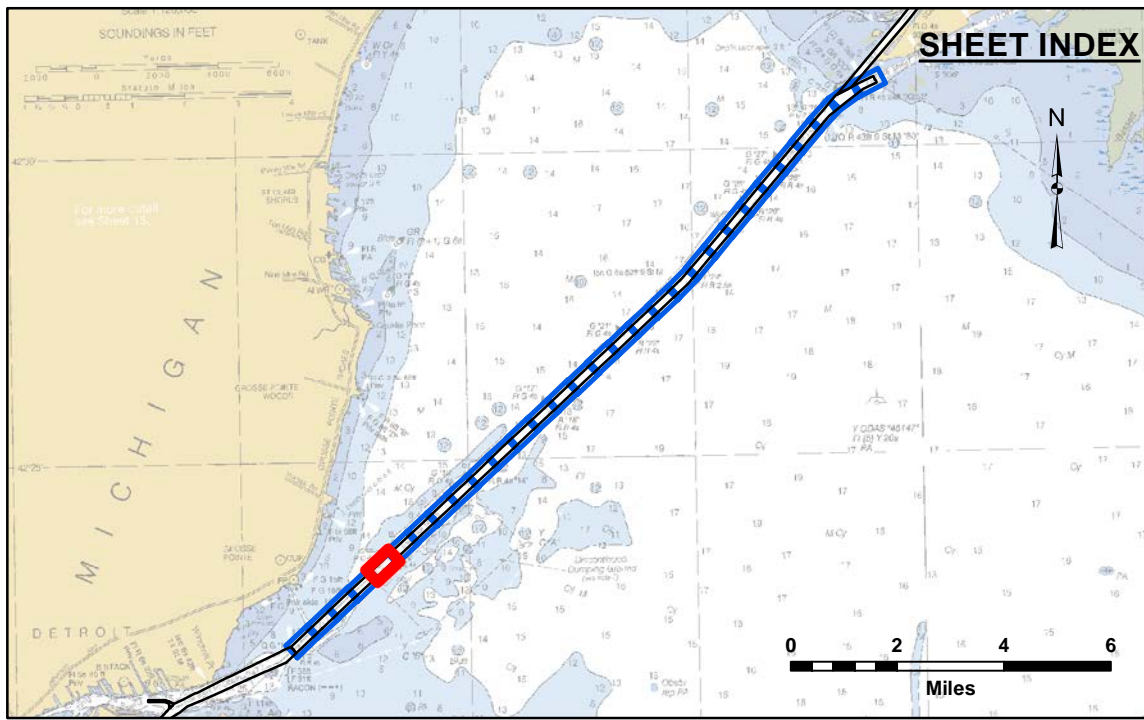




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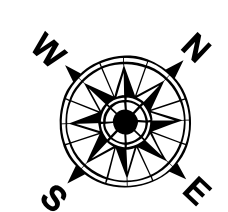
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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT	
Submitted:	Surveyed By:
Recommended:	Plotted By:
Approved:	Checked By:

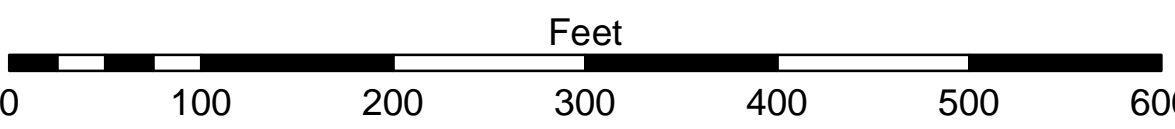


- LEGEND**
- Cable Submarine
  - - - Cable Overhead
  - Placement Area
  - ⊥ Beacon, General
  - Contour Lines
  - Channel Limits

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



1 inch = 100 feet



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ST CLAIR SHORES, MI (#9034052)

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

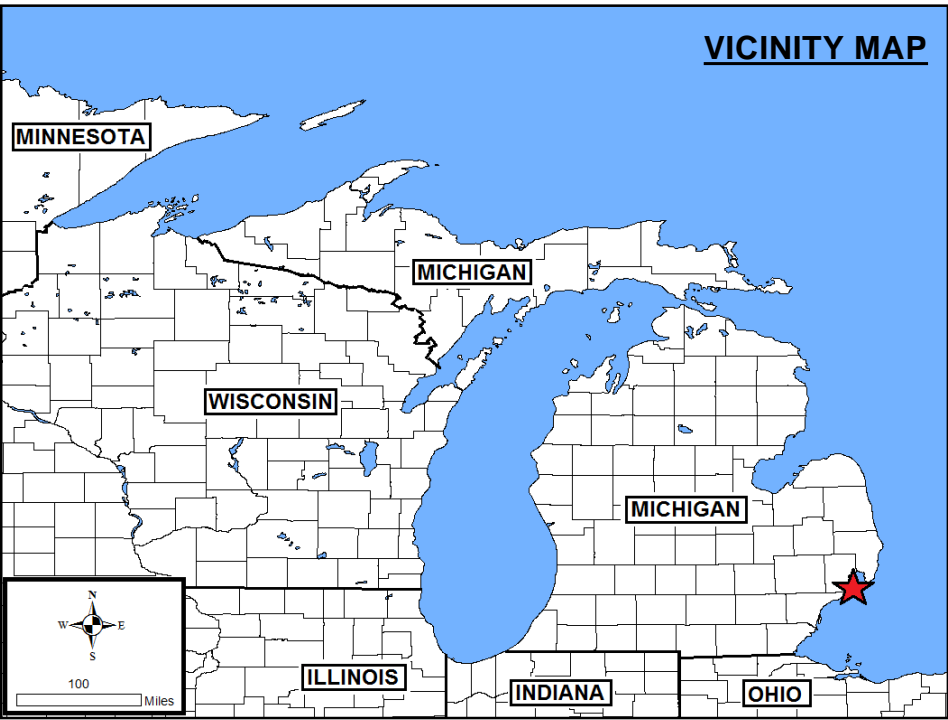
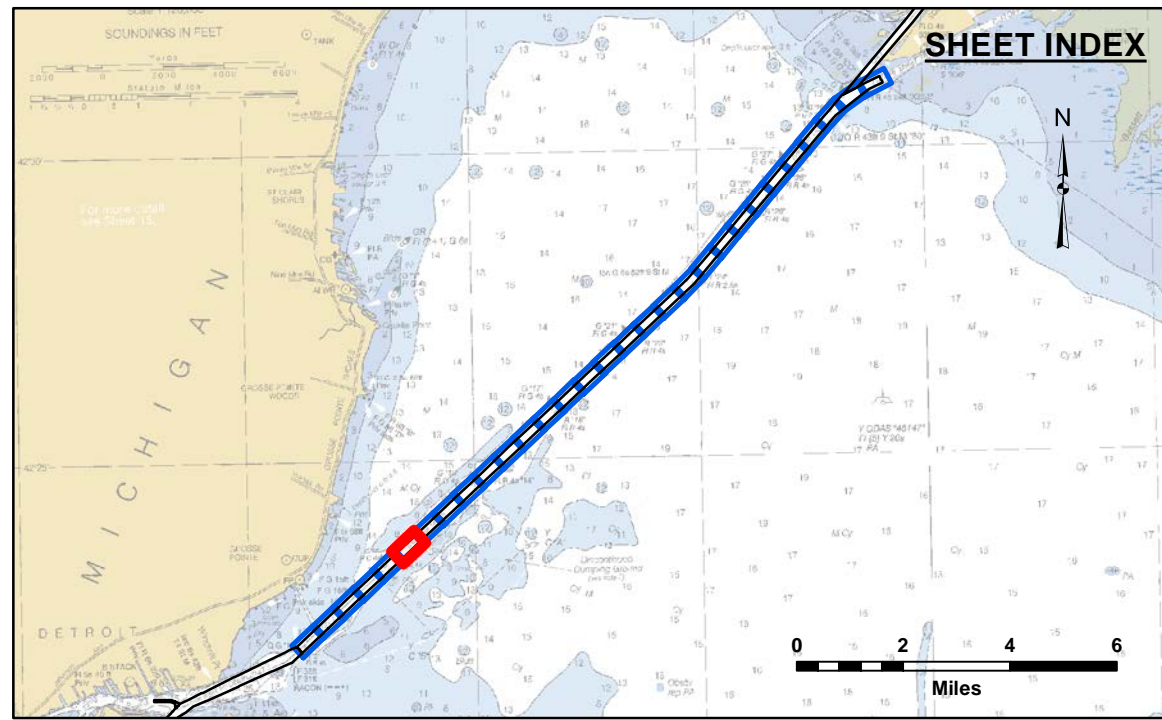
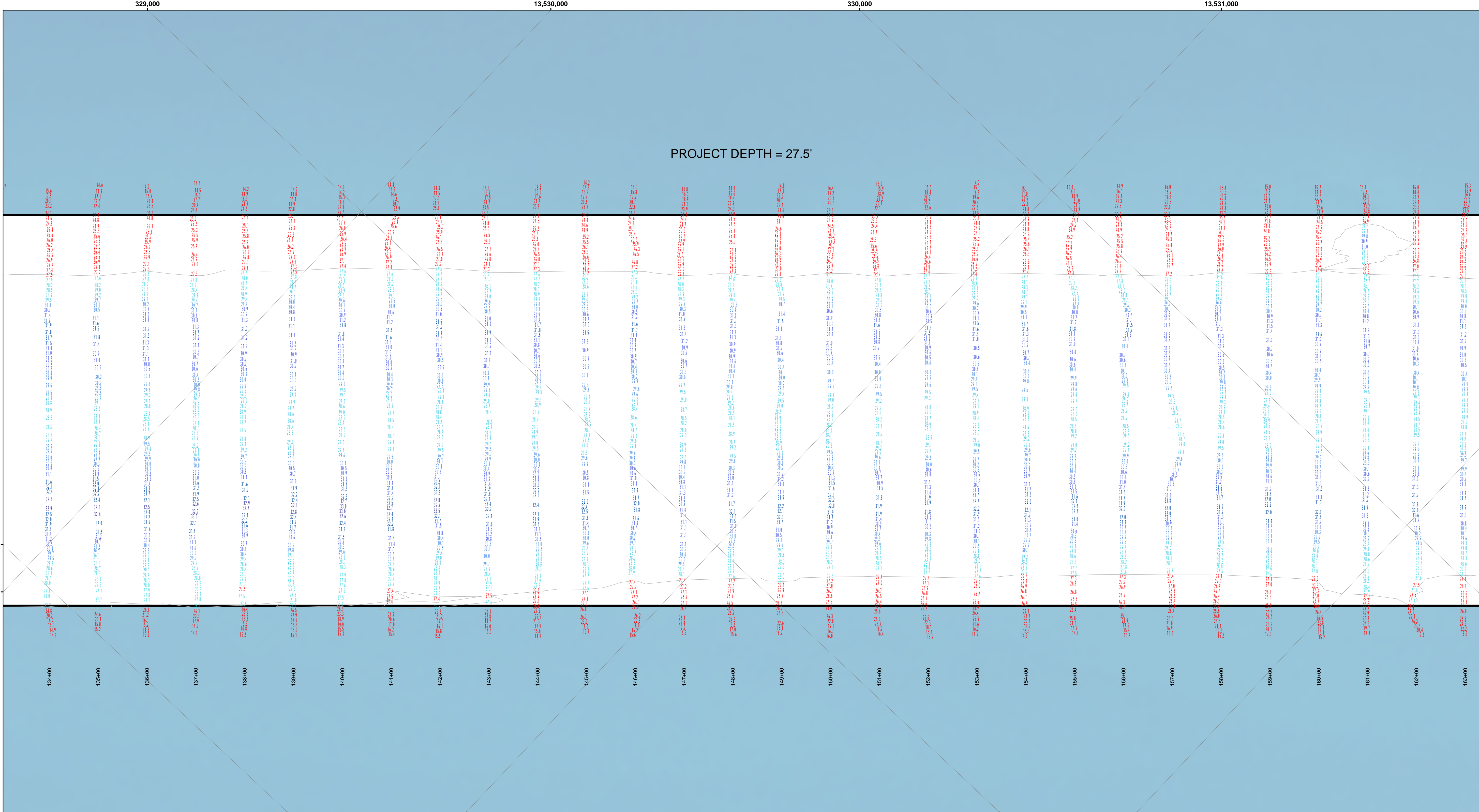
2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS  
ALL COORDINATES ARE IN U.S. SURVEY FEET.

Channels in Lake St. Clair, MI  
Channels of Lake St Clair  
CL\_01\_LSC\_20231017\_CS  
17 October 2023

Sheet  
Reference  
Number  
5 of 30

Revision Number:  
4.2-2023MAY20



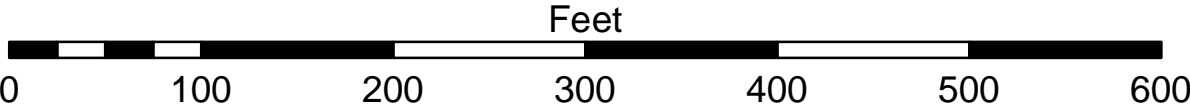


- LEGEND**
- Cable Submarine
  - - - Cable Overhead
  - Placement Area
  - Beacon, General
  - Contour Lines
  - Channel\_Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
  - PROJECT DEPTH
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  - PROJECT DEPTH +2'
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1 inch = 100 feet



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ST CLAIR SHORES, MI (#9034052)

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

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS  
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Channels in Lake St. Clair, MI  
Channels of Lake St Clair  
CL\_01\_LSC\_20231017\_CS  
17 October 2023

Sheet  
Reference  
Number  
6 of 30

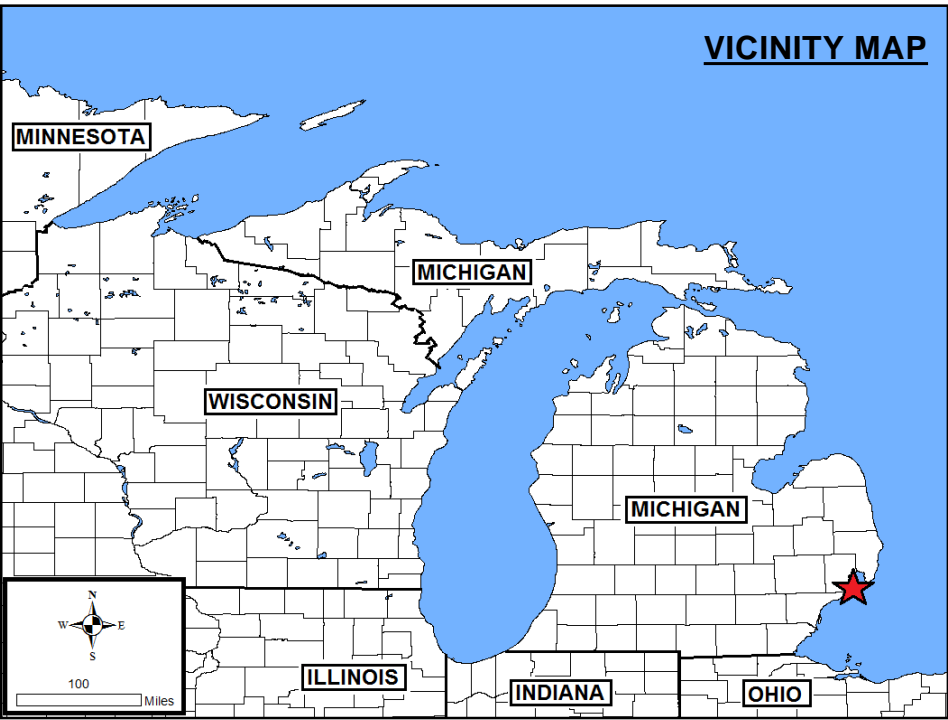
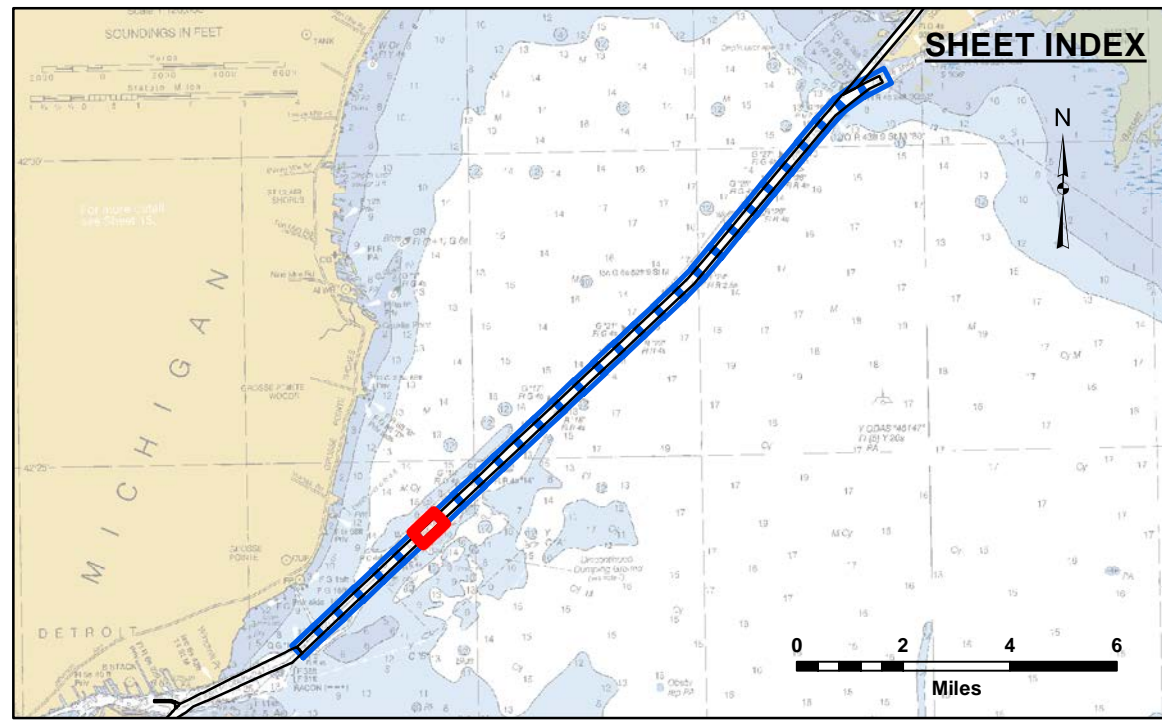
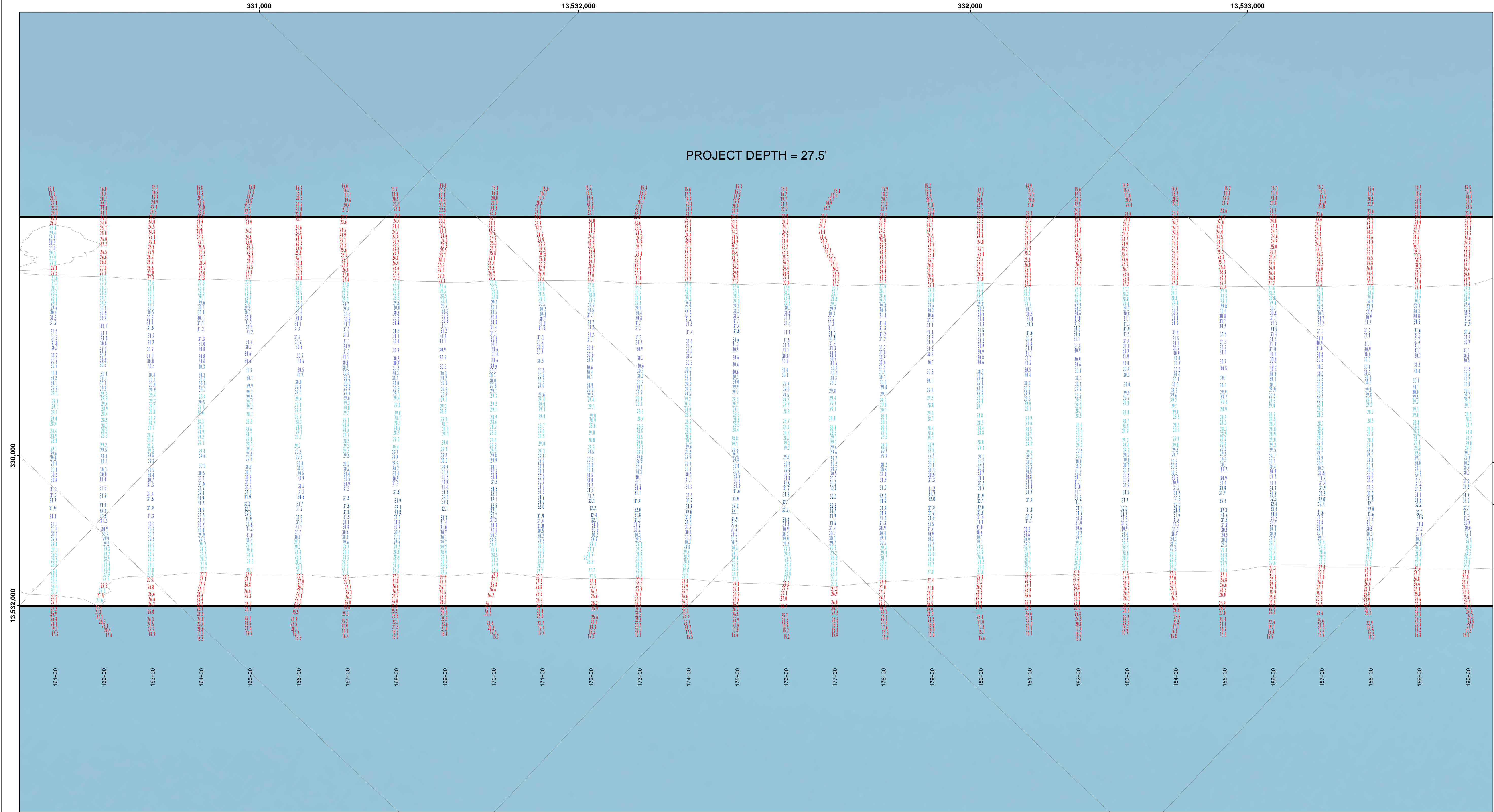
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Submitted:	Surveyed By:
	Plotted By:
	Checked By:
Recommended:	Chief, Survey Section
Approved:	Chief, Technical Services



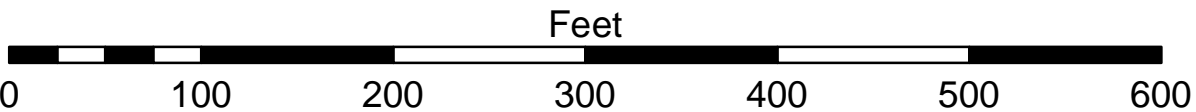


- LEGEND**
- Cable Submarine
  - - - Cable Overhead
  - Placement Area
  - Beacon, General
  - Contour Lines
  - Channel\_Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
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SOFTWARE: HYPACK

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS  
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Channels in Lake St. Clair, MI  
Channels of Lake St Clair  
CL\_01\_LSC\_20231017\_CS  
17 October 2023

Sheet  
Reference  
Number  
7 of 30

Revision Number:  
4.2-20230401

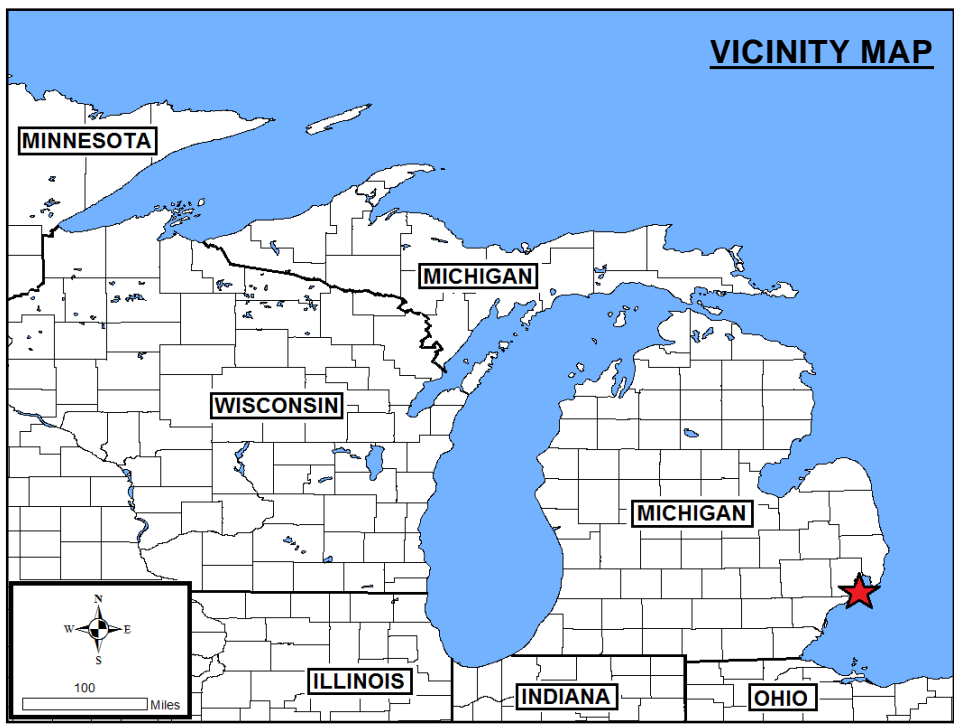
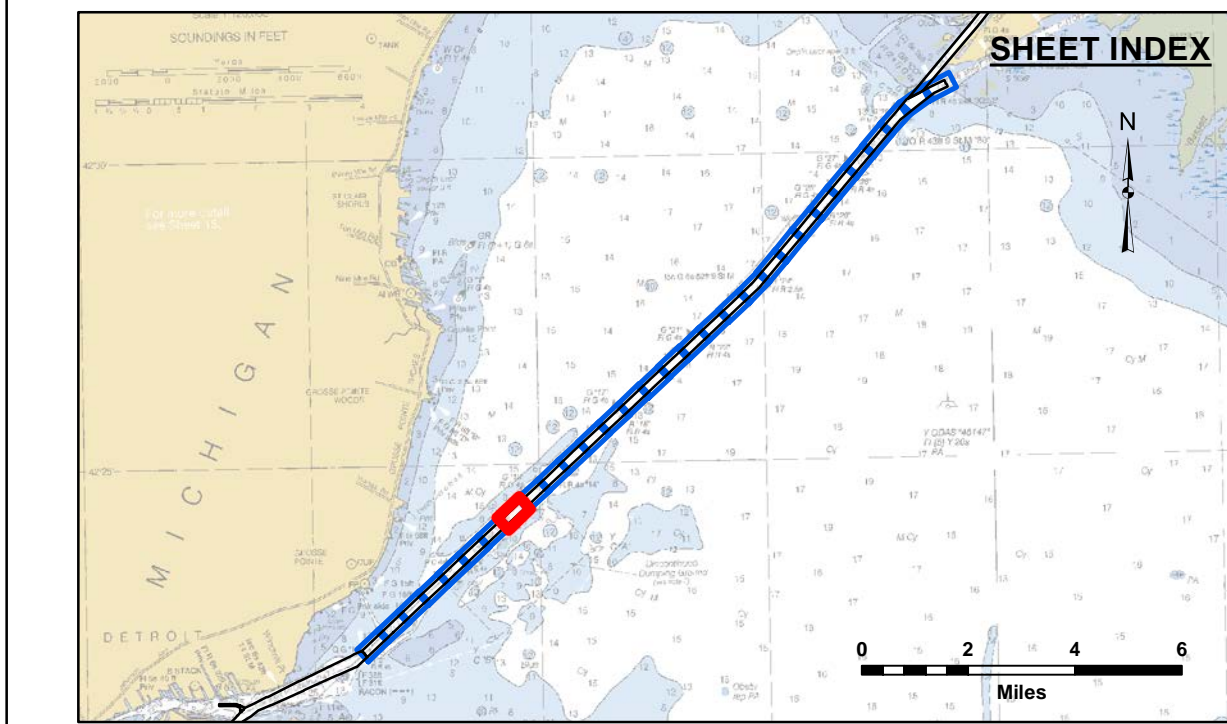
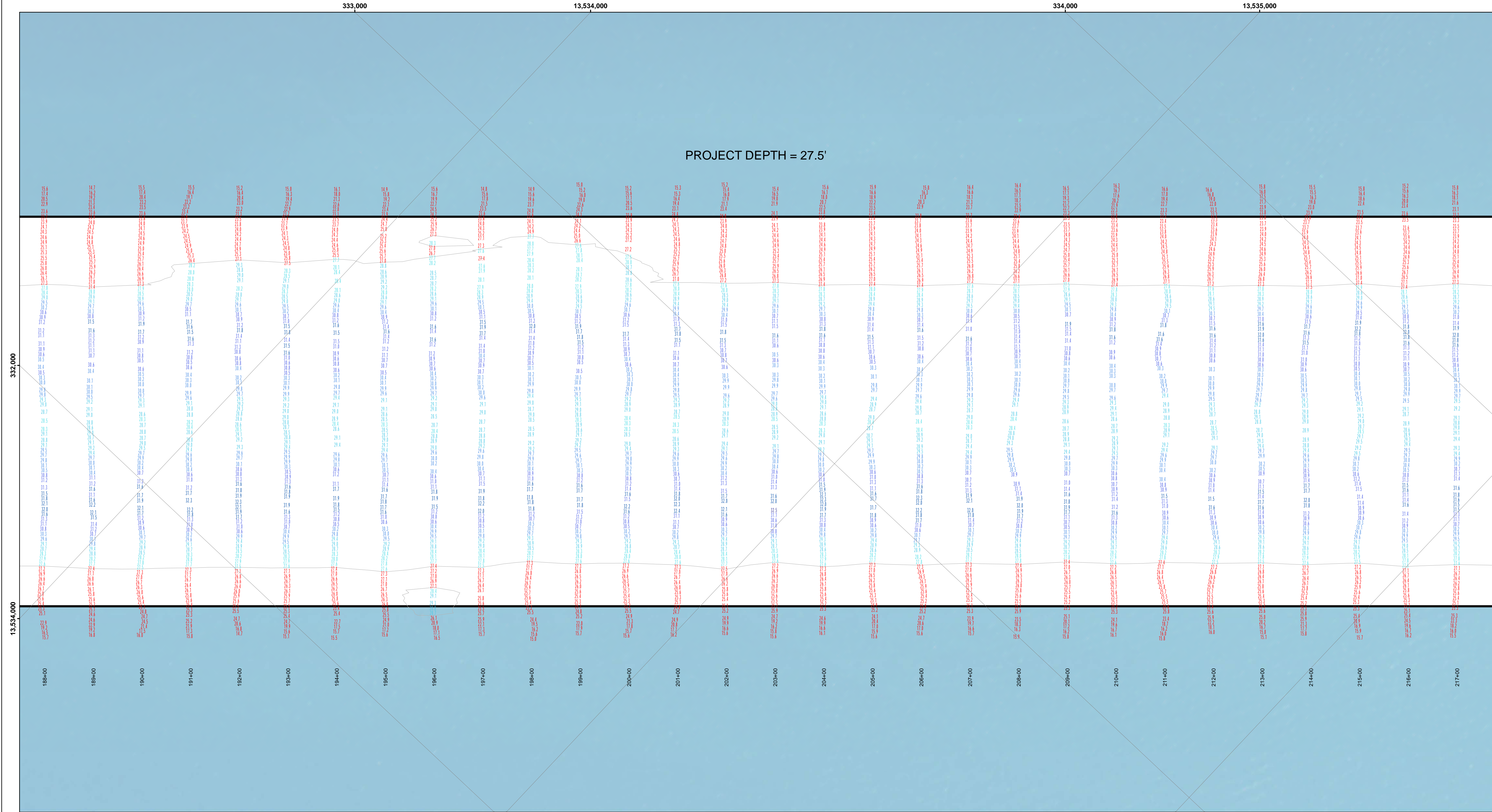


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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT	
Submitted:	Surveyed By:
Recommended: Chief, Survey Section	Plotted By:
Approved: Chief, Technical Services	Checked By:



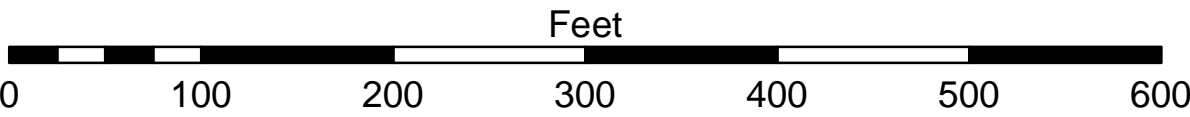


- LEGEND**
- Cable Submarine
  - - - Cable Overhead
  - Placement Area
  - └ Beacon, General
  - Contour Lines
  - ▭ Channel\_Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
  - PROJECT DEPTH
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SOFTWARE: HYPACK

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Channels in Lake St. Clair, MI  
Channels of Lake St Clair  
CL\_01\_LSC\_20231017\_CS  
17 October 2023

Sheet  
Reference  
Number  
8 of 30

Revision Number:  
4.2-2023MAY20

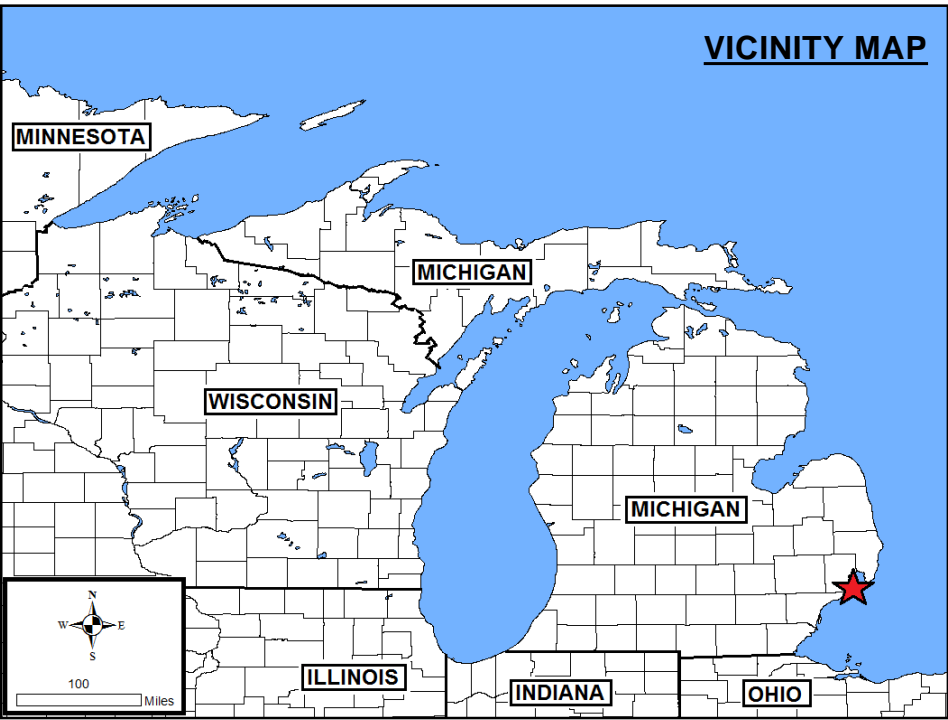
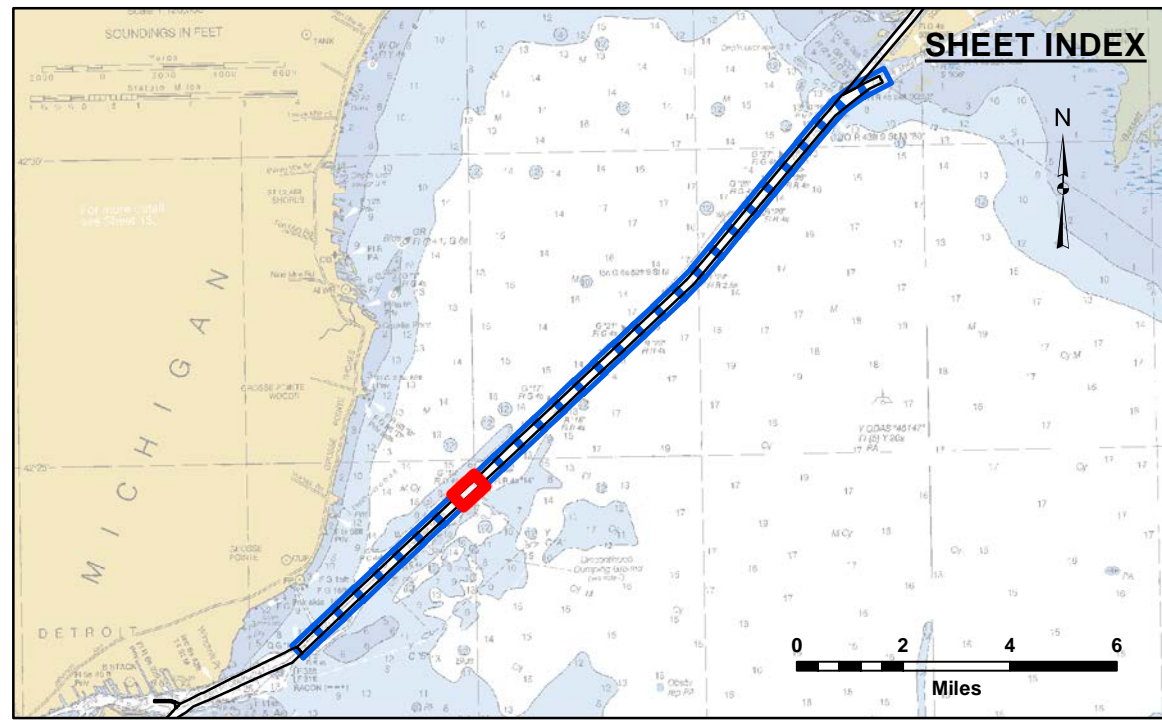
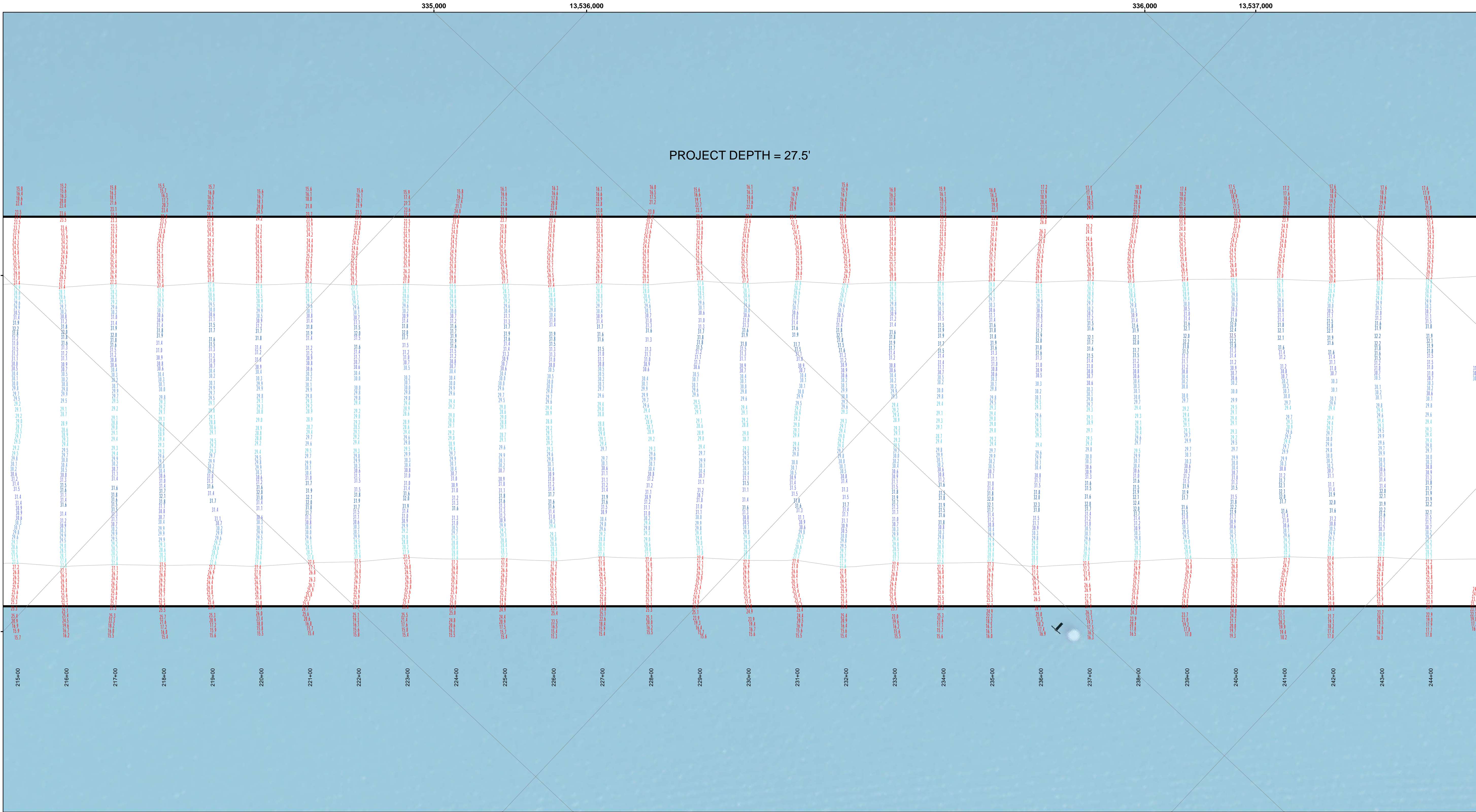


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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT	
Submitted:	Surveyed By:
Recommended:	Plotted By:
Approved:	Checked By:
Chief, Survey Section	
Chief, Technical Services	





**LEGEND**

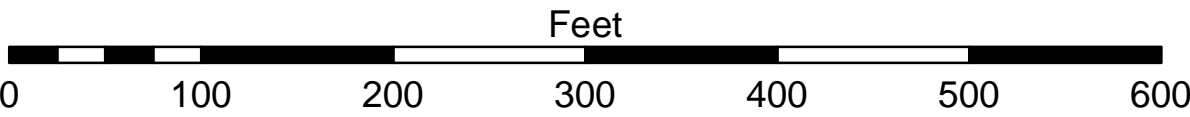
- Cable Submarine
- - - Cable Overhead
- Placement Area
- ⊥ Beacon, General
- Contour Lines
- Channel\_Limits

**SOUNDING LEGEND**

- LESS THAN PROJECT DEPTH
- PROJECT DEPTH
- PROJECT DEPTH +1'
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2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS  
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Channels in Lake St. Clair, MI  
Channels of Lake St Clair  
CL\_01\_LSC\_20231017\_CS  
17 October 2023

Sheet  
Reference  
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9 of 30

Revision Number:  
4.2-2020MAY20

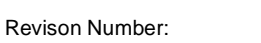


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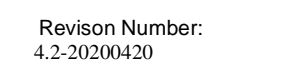
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Recommended:	Chief, Survey Section		
Approved:	Chief, Technical Services		

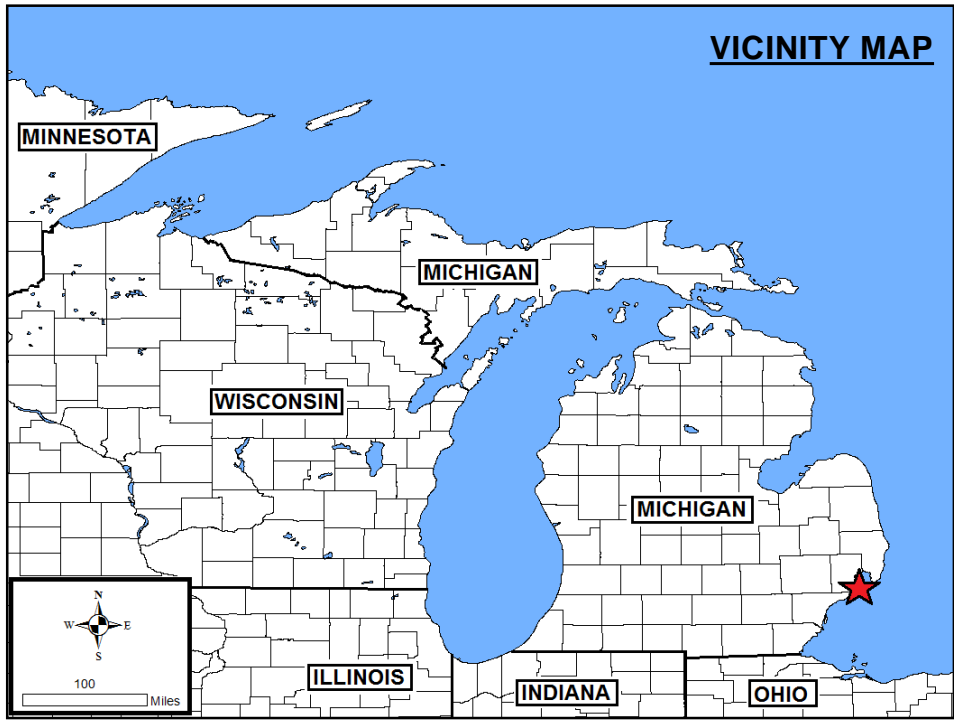
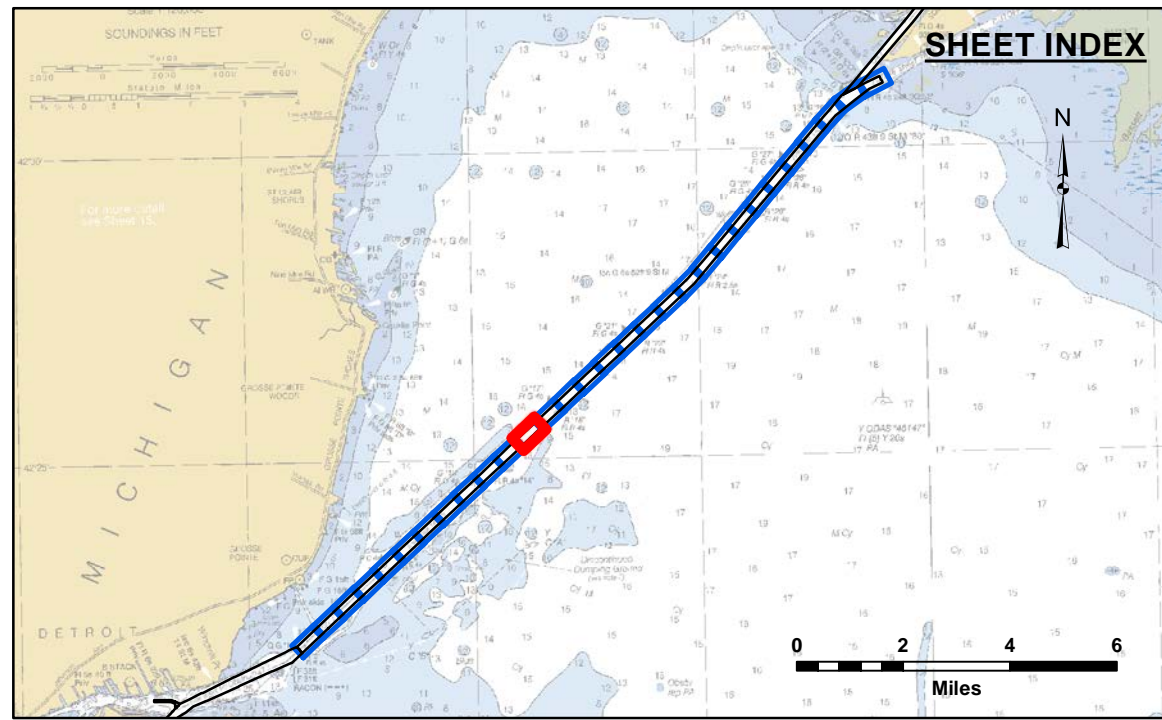
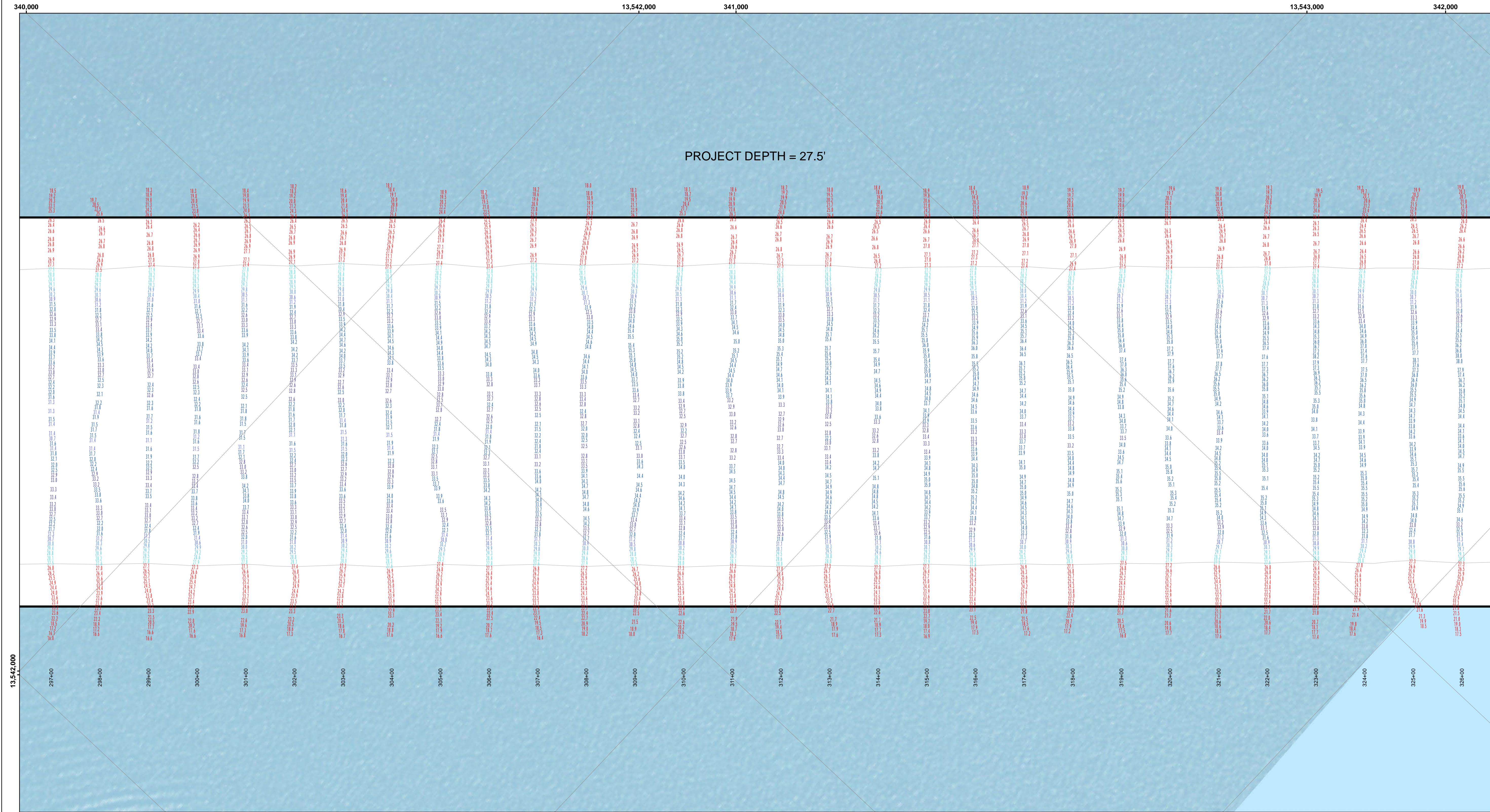










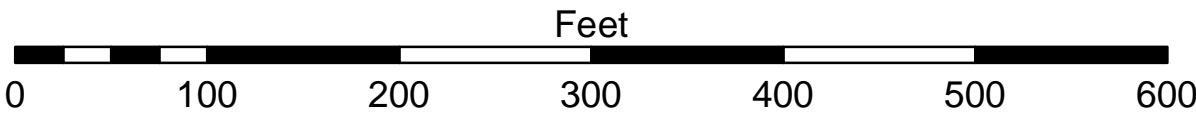


- LEGEND**
- Cable Submarine
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- SOUNDING LEGEND**
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1 inch = 100 feet



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TIDE VALUES ARE DERIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATIONS.

ST CLAIR SHORES, MI (#9034052)

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

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

Channels in Lake St. Clair, MI  
Channels of Lake St Clair  
CL\_01\_LSC\_20231017\_CS  
17 October 2023

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Revision Number:  
4.2-20230401

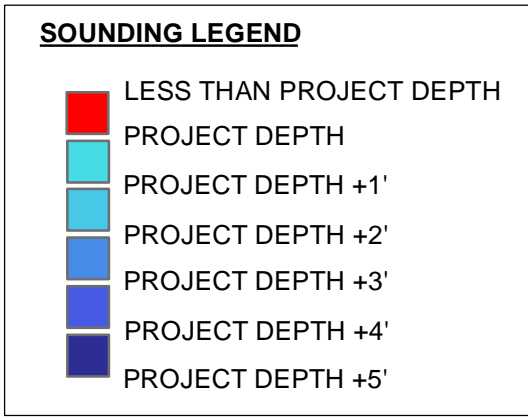
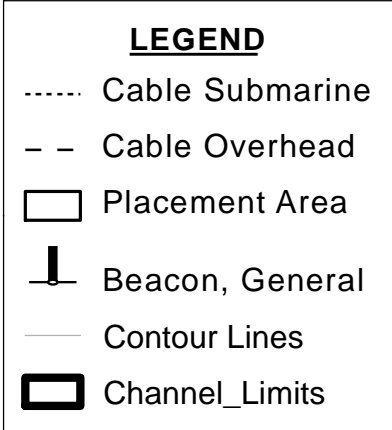
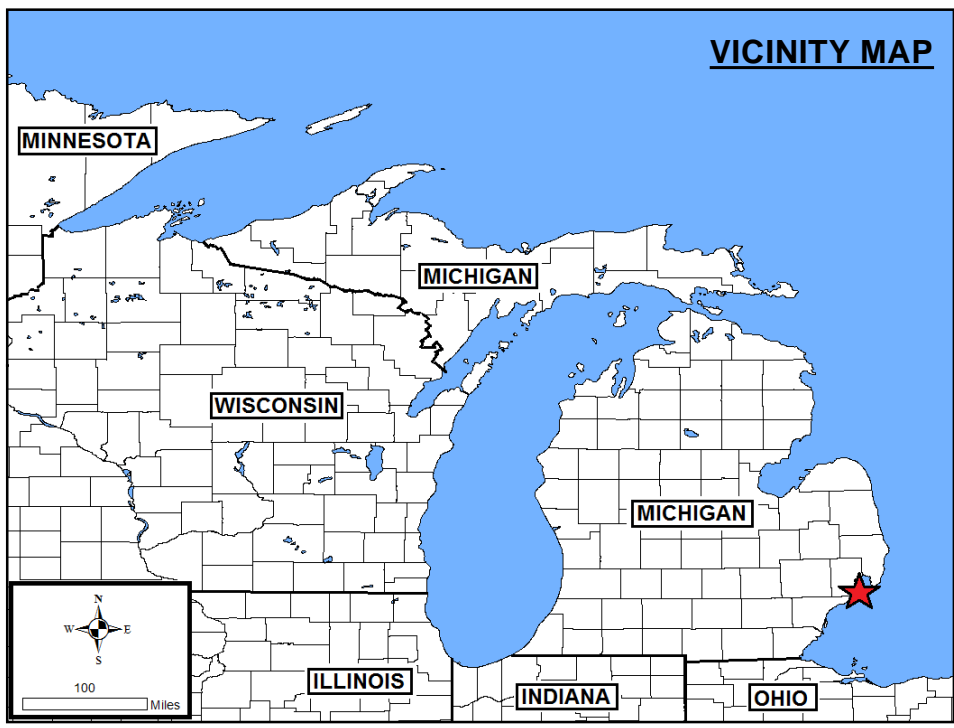
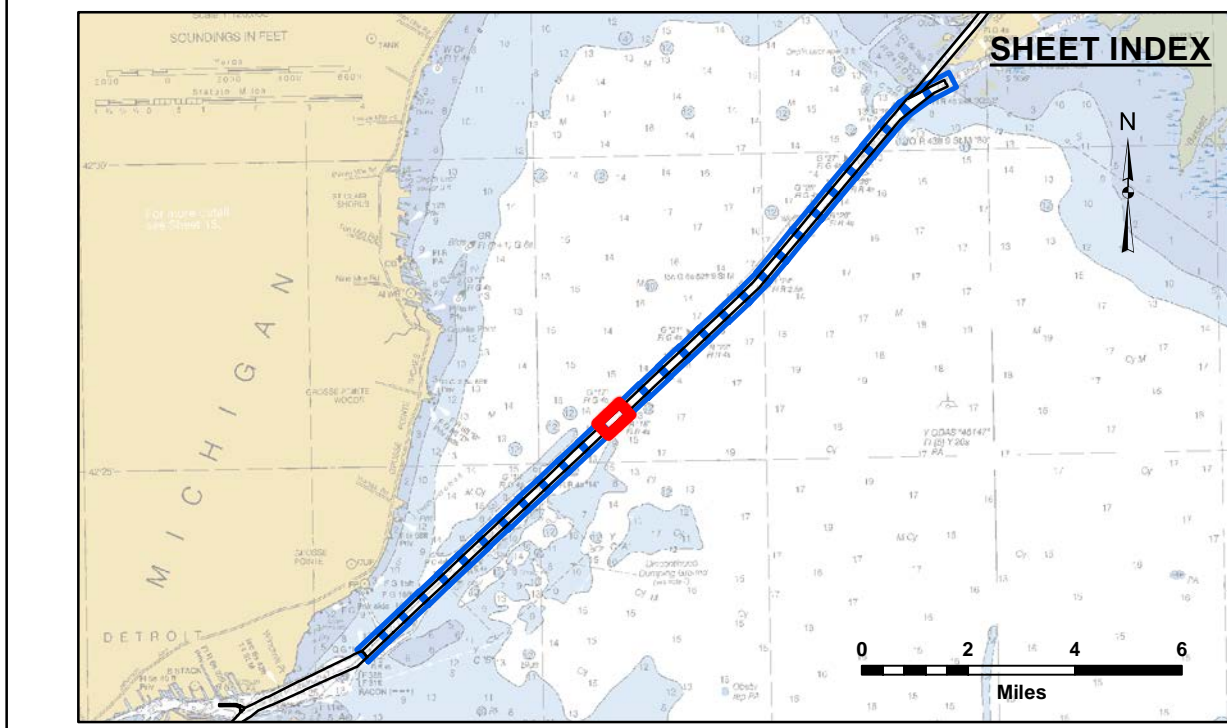
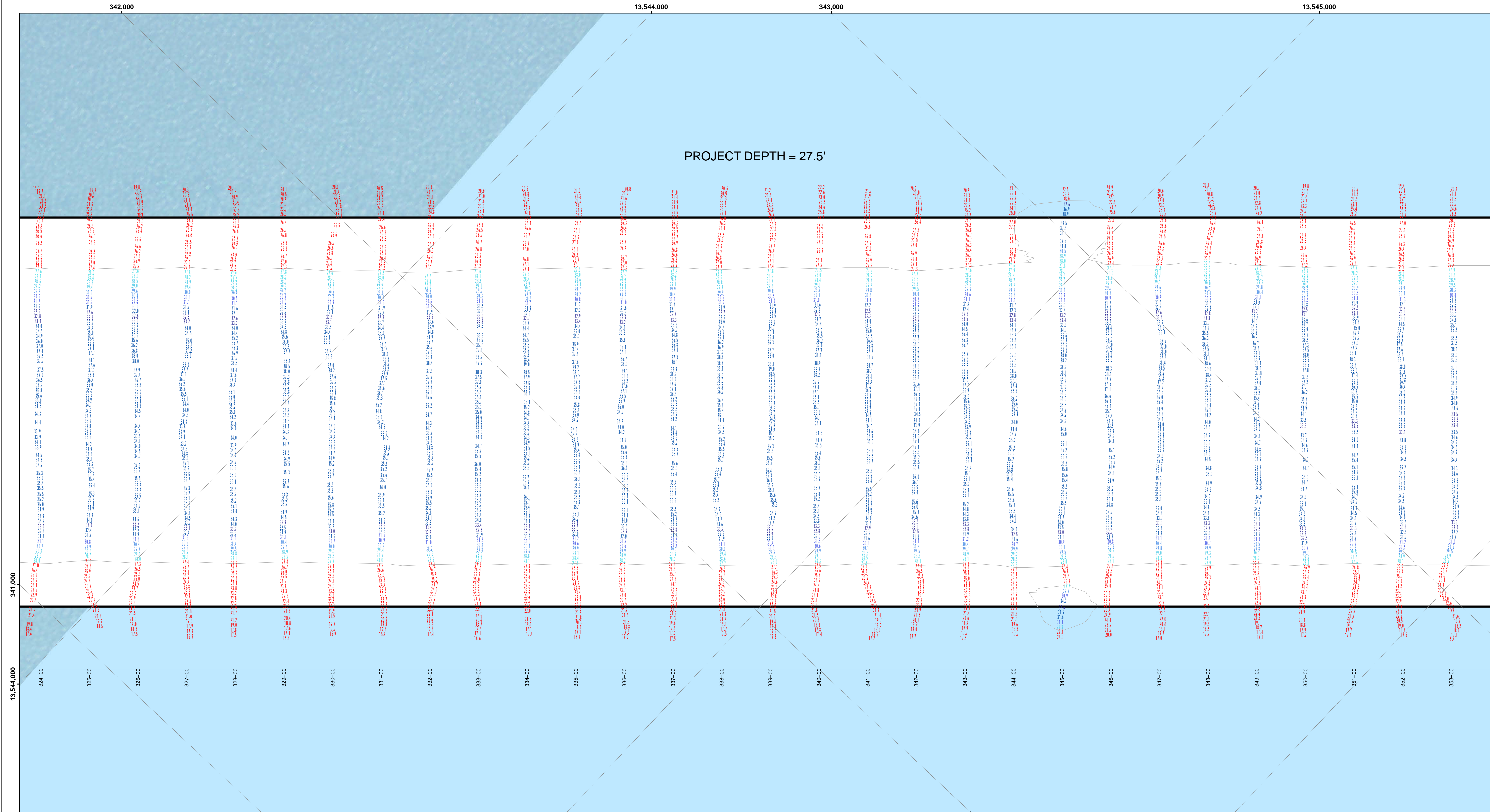


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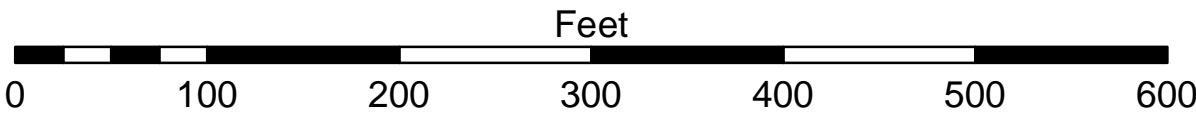
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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Chief, Survey Section	Checked By:
	Chief, Technical Services	





1 inch = 100 feet



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SOFTWARE: HYPACK

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS  
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Channels in Lake St. Clair, MI  
Channels of Lake St Clair  
CL\_01\_LSC\_20231017\_CS  
17 October 2023

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Revision Number:  
4.2-20230401

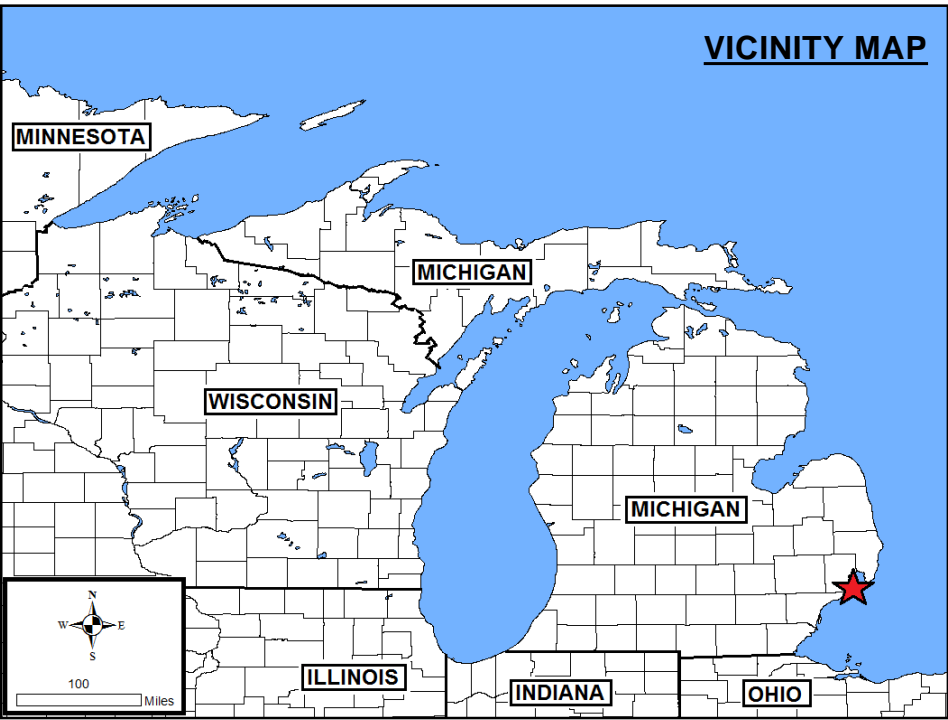
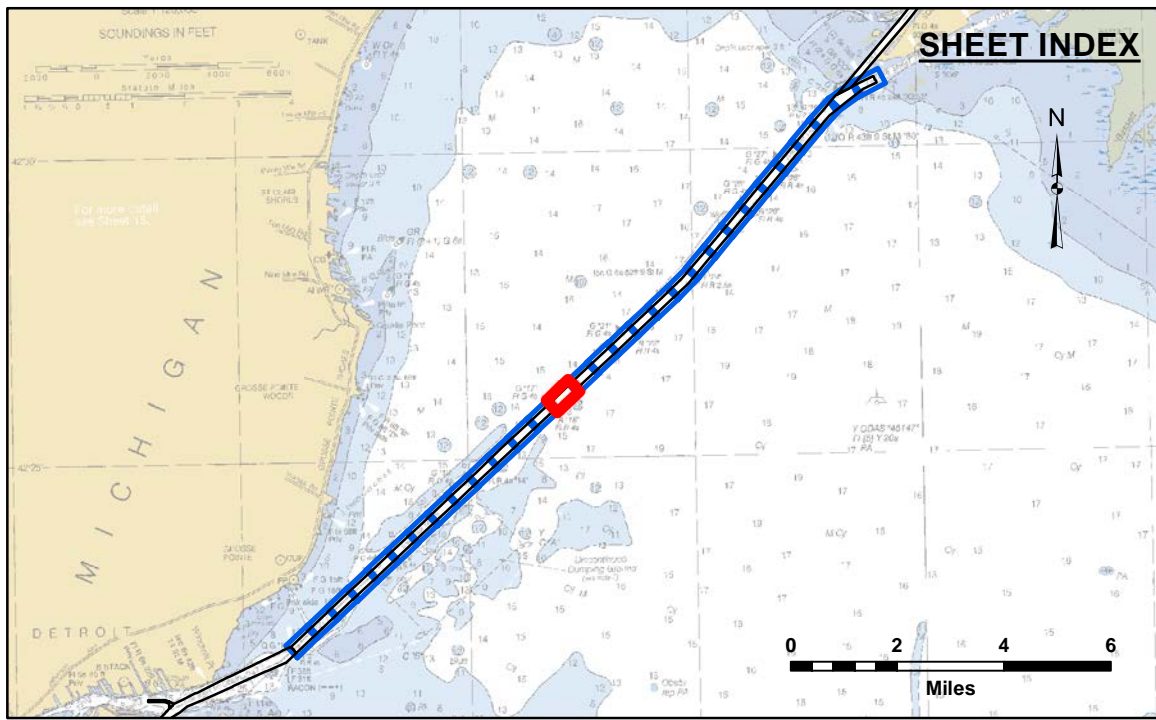
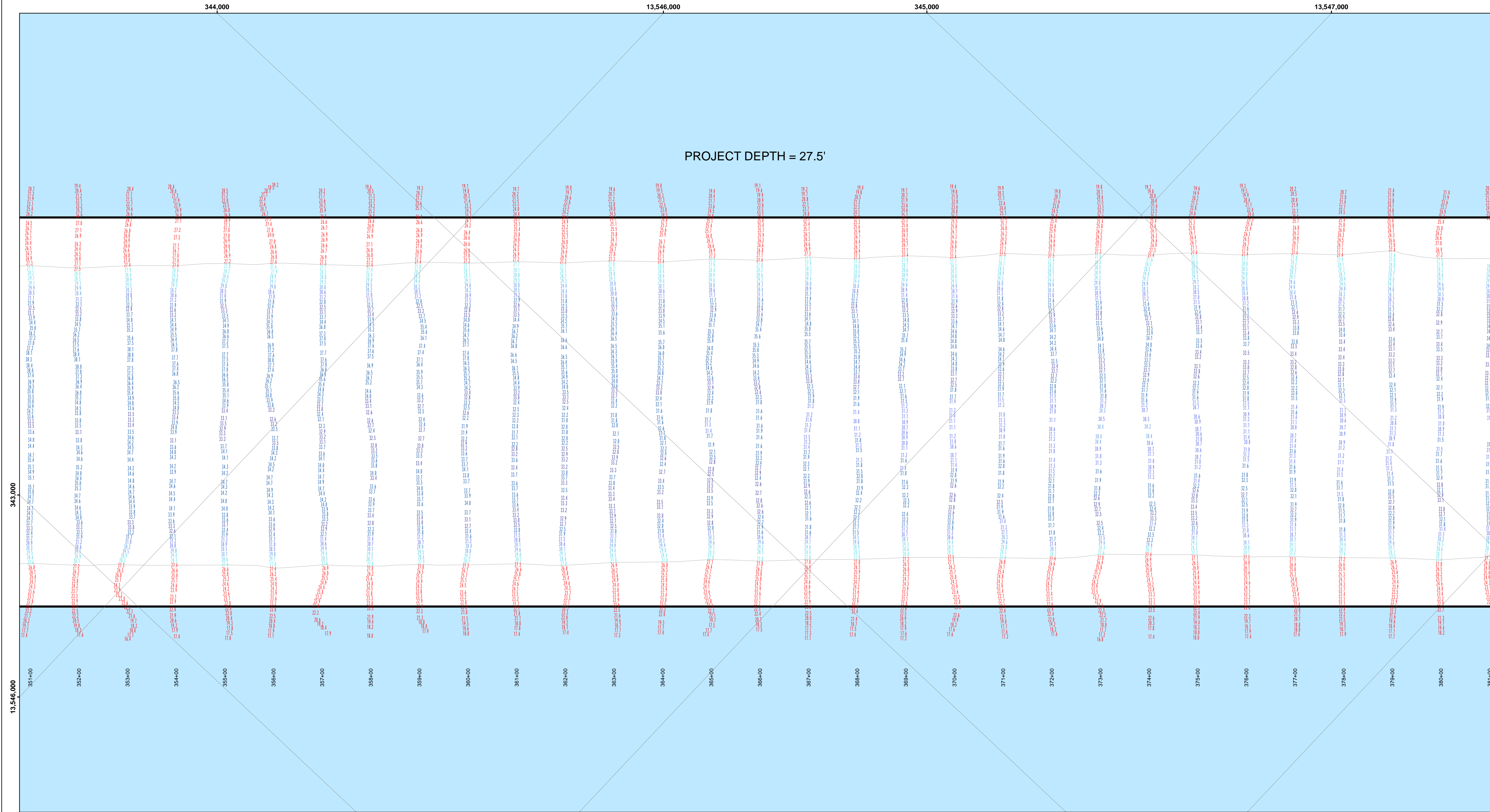


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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Chief, Survey Section	
	Chief, Technical Services	





**LEGEND**

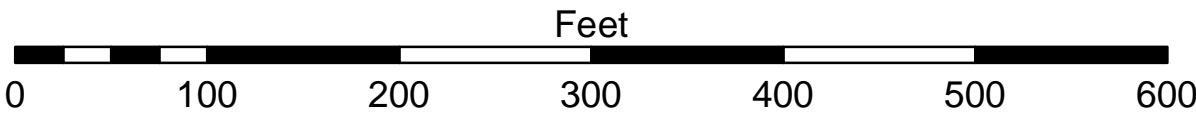
- Cable Submarine
- - - Cable Overhead
- Placement Area
- Beacon, General
- Contour Lines
- Channel\_Limits

**SOUNDING LEGEND**

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Channels of Lake St Clair  
CL\_01\_LSC\_20231017\_CS  
17 October 2023

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Reference  
Number  
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Revision Number:  
4.2-20230420

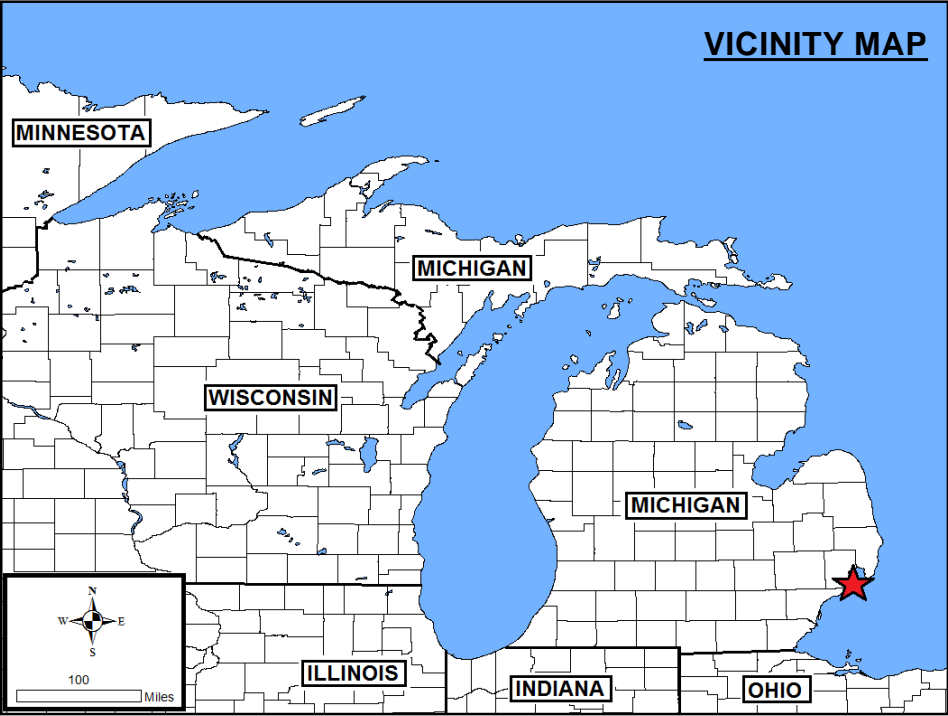
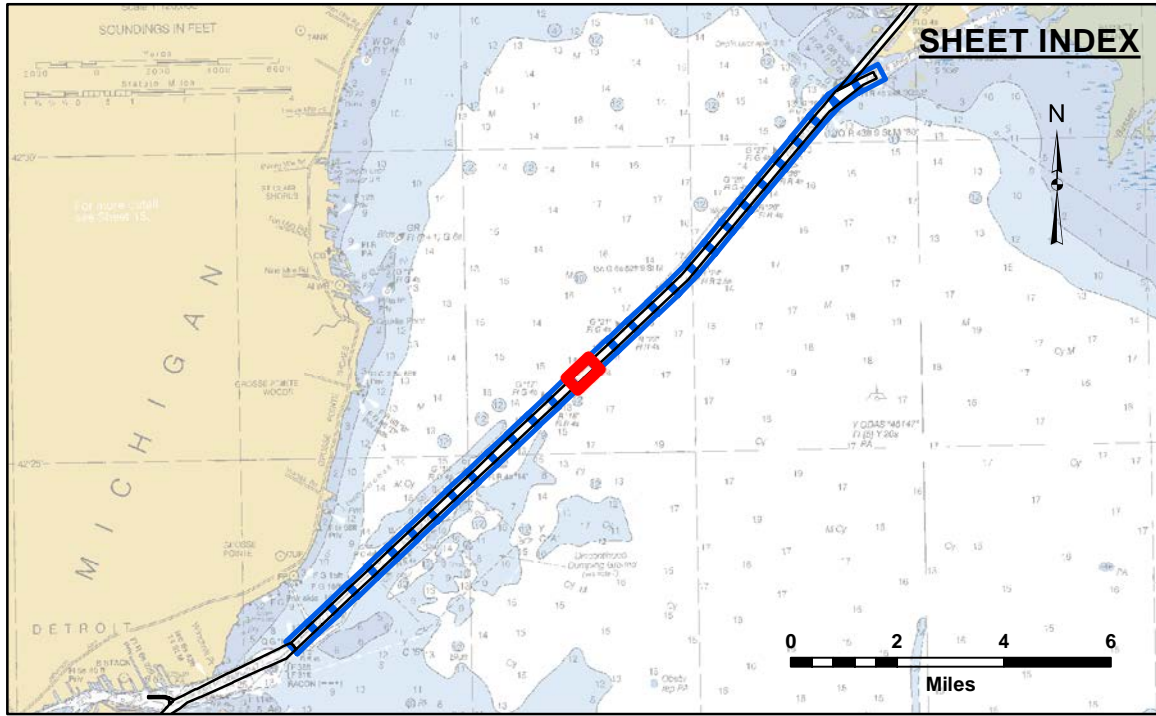
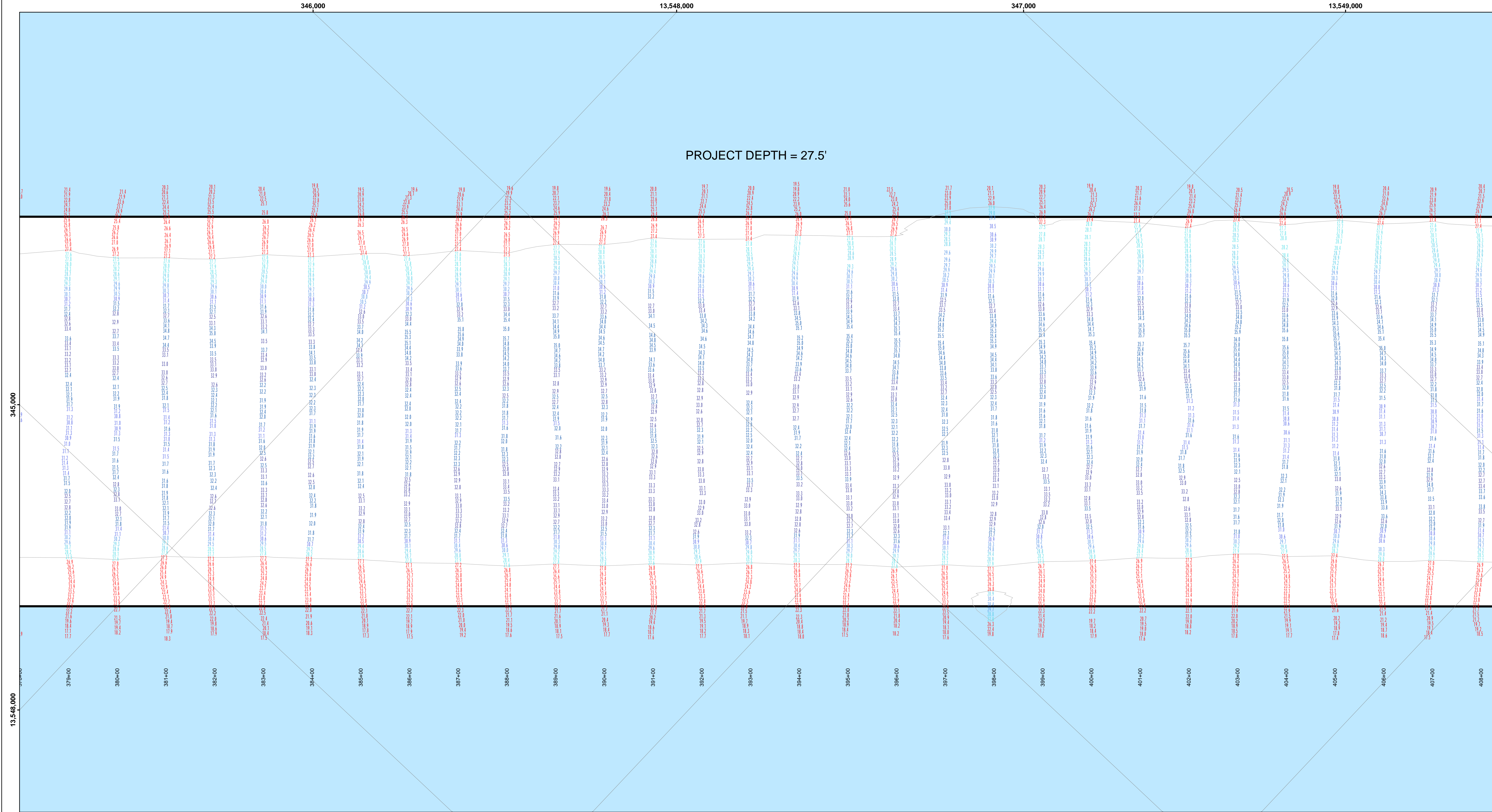
  
**US Army Corps  
of Engineers**  
District: CELRE

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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:	





**LEGEND**

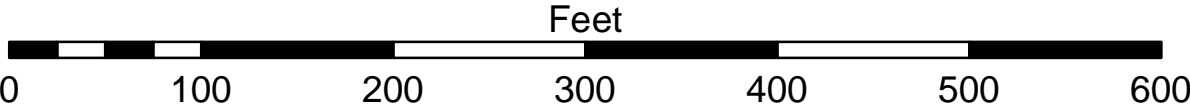
- Cable Submarine
- - - Cable Overhead
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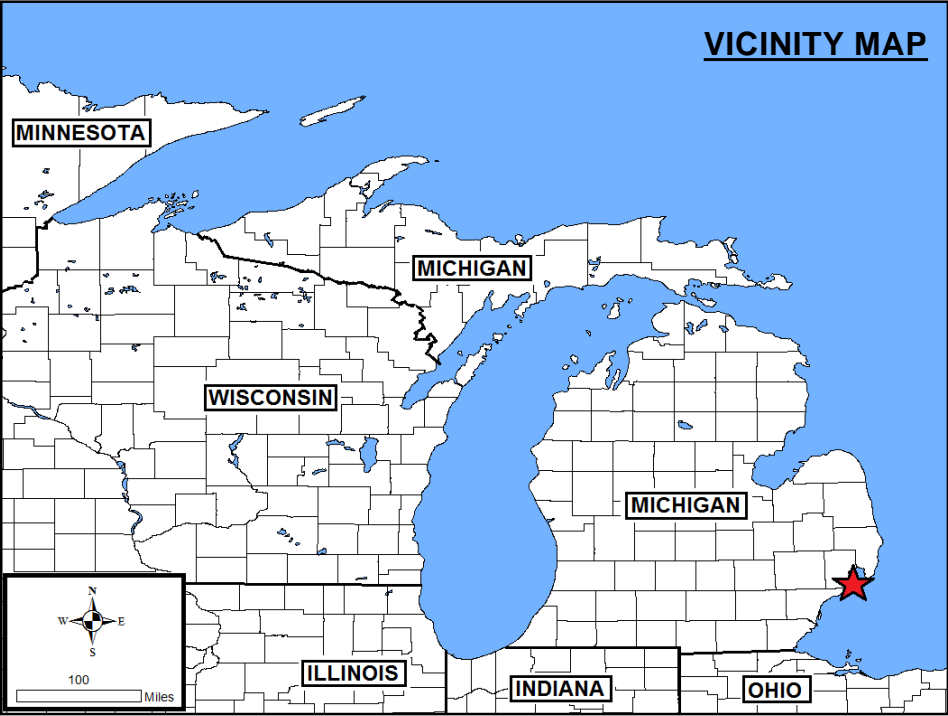
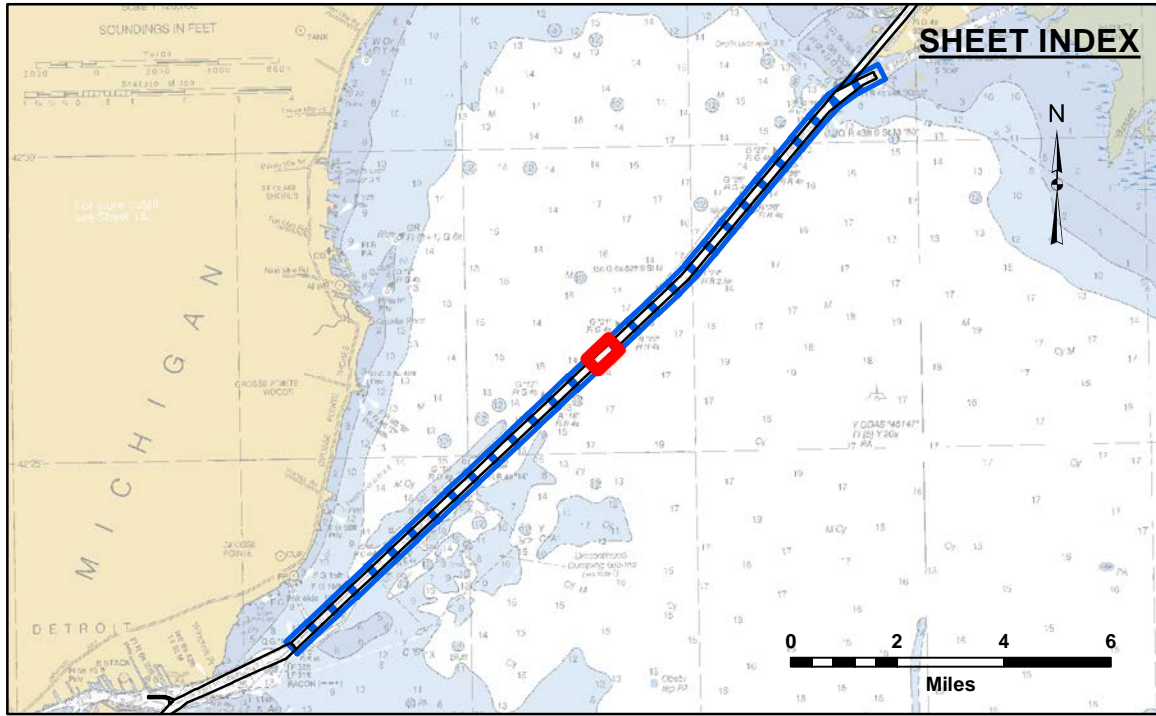
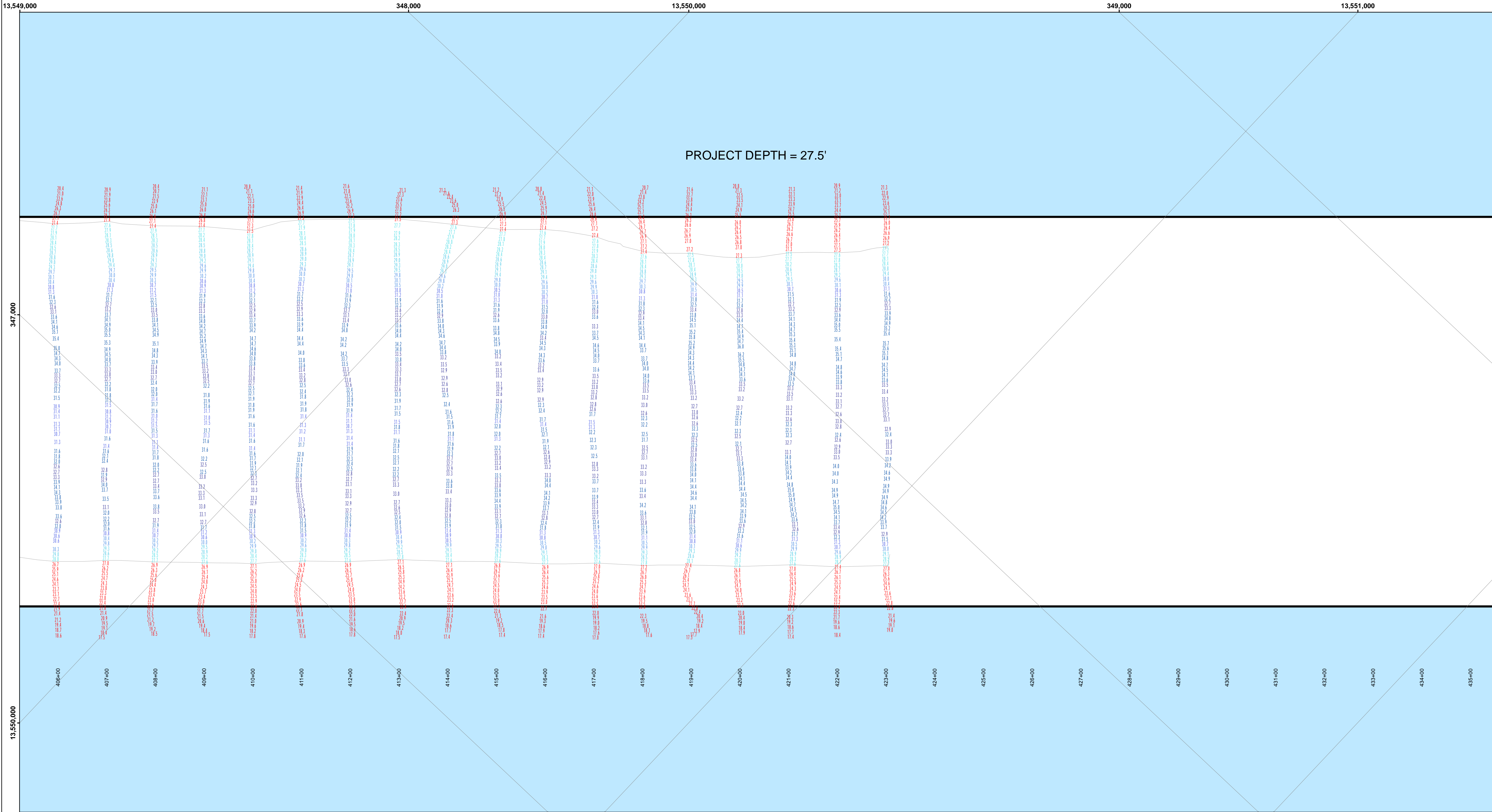
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Recommended: Chief, Survey Section	Plotted By:
Approved:	Checked By:

Channels in Lake St. Clair, MI  
Channels of Lake St Clair  
CL\_01\_LSC\_20231017\_CS  
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Number  
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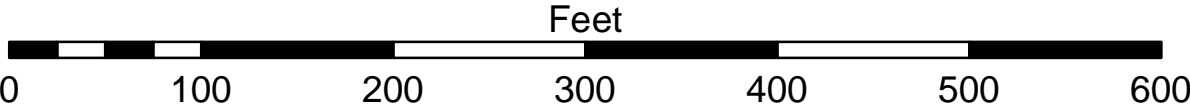
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**US Army Corps  
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District: CELRE

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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		

**Channels in Lake St. Clair, MI**  
**Channels of Lake St Clair**  
**CL\_01\_LSC\_20231017\_CS**  
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