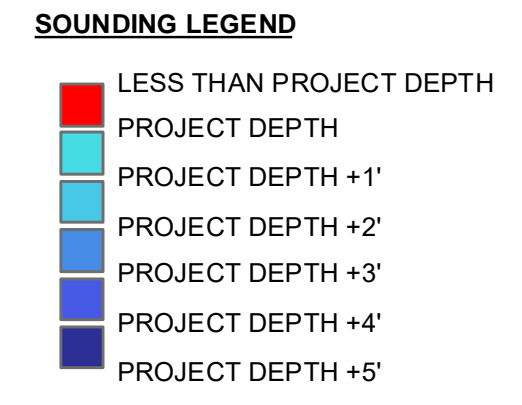
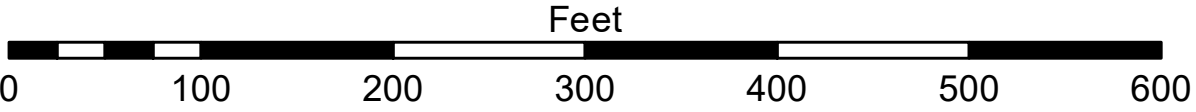


- LEGEND**
- ..... Cable Submarine
  - Cable Overhead
  - Placement Area
  - Beacon, General
  - Project Depths
  - Contour Lines
  - Channel Limits



1 inch = 100 feet



- NOTES:**
1. 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 PROVIDED FOR STRIKE/SOHAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.
  2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM (LWD) ZERO IS REFERENCED TO MEAN WATER LEVEL AT POINT ROUMOUX QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED NOAA GAUGE LOCATED AT POINT ROUMOUX (0004). DEPTHS ARE MEASURED USING AN RZSONIC 2024 MULTIBEAM SONAR.
  3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.
  4. HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM (RTK). CORRECTIONS ARE PROVIDED BY THE MICHIGAN CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS). THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POSMV VER 4.0.
  5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (211). NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
  6. PROJECT DEPTHS FOR THE BAY MILLS ANCHORAGE AREA = 29.0' BELOW LWD.
- THE LOCATION OF NAVIGATION AIDS ARE BASE ON AND PROVIDED BY THE U.S. COAST GUARD. 2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS



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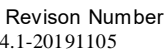
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Submitted:	Surveyed By:
Recommended:	Plotted By:
Approved:	Checked By:
Chief, Survey Section	
Chief, Technical Services	

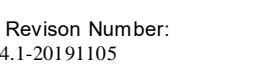
St. Marys River, MI  
Bay Mills Anchorage  
SM\_02\_BMA\_20200630\_CS  
30 June 2020

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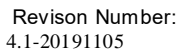




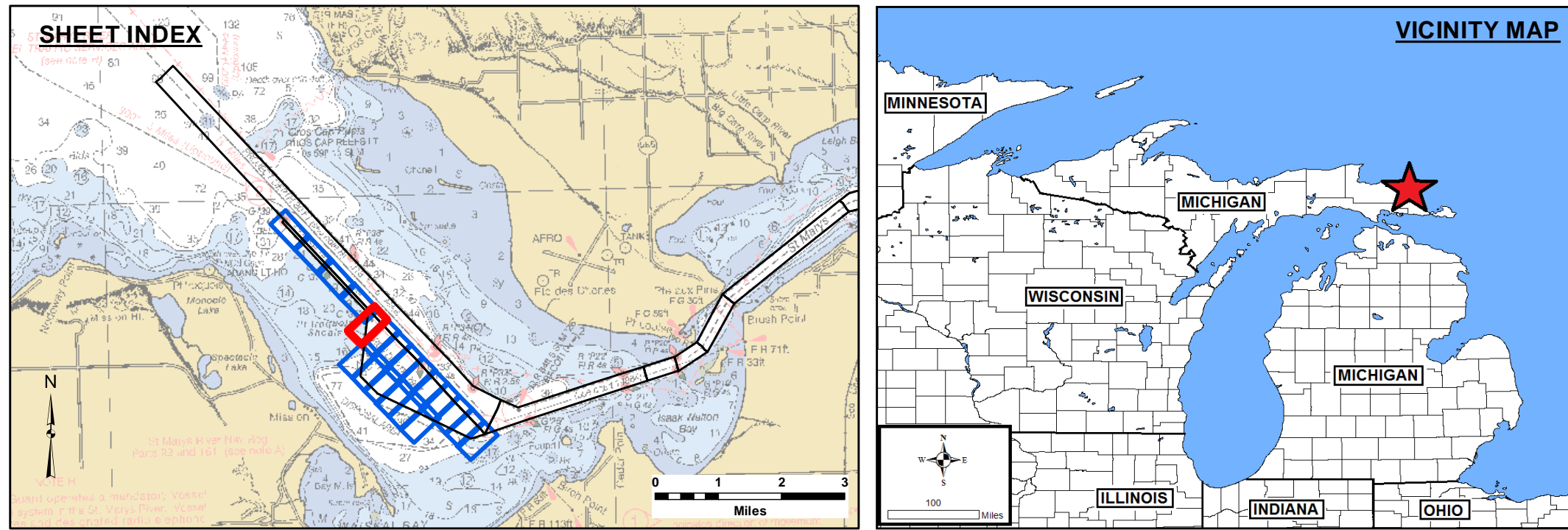
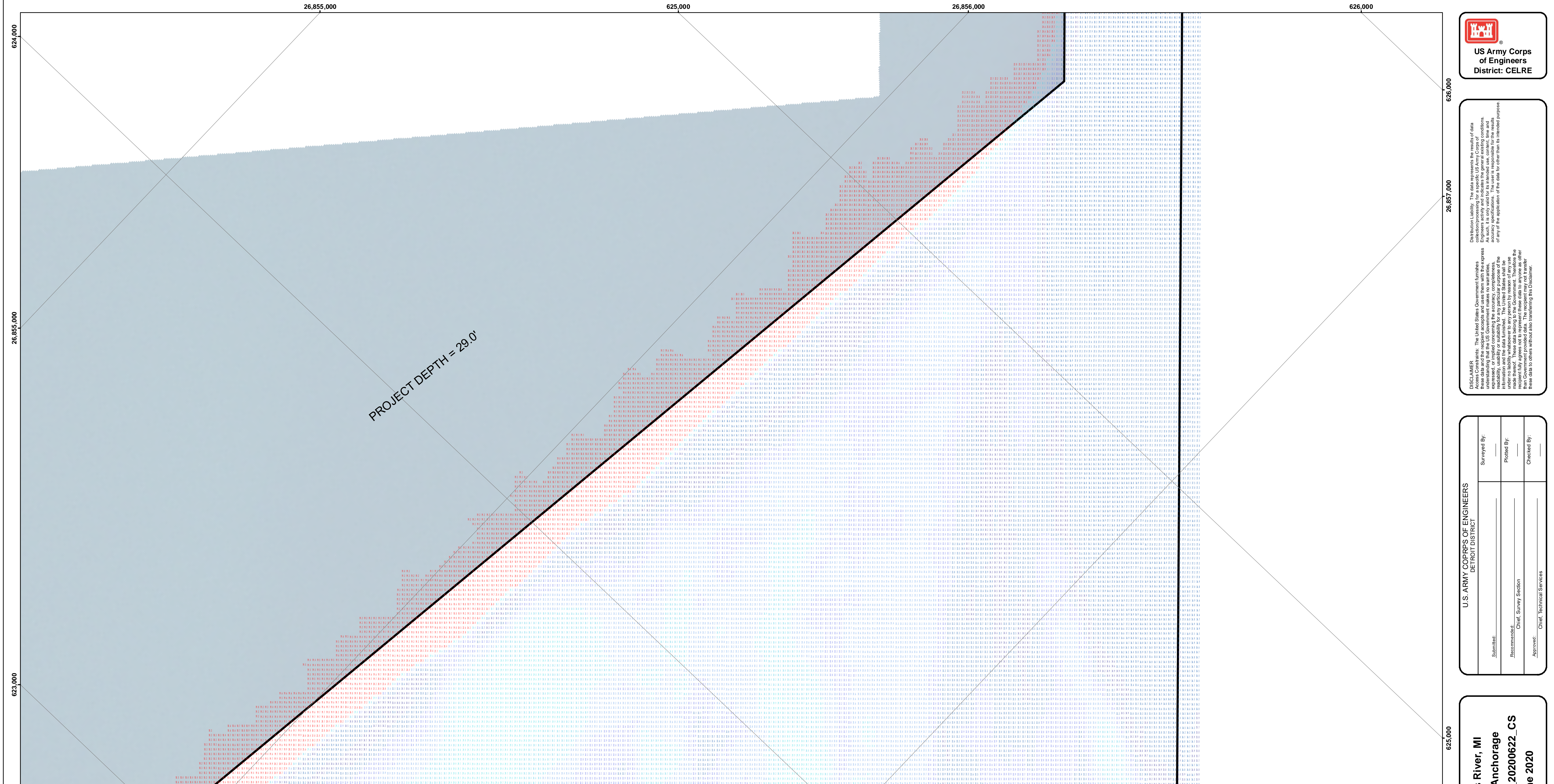






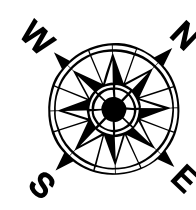




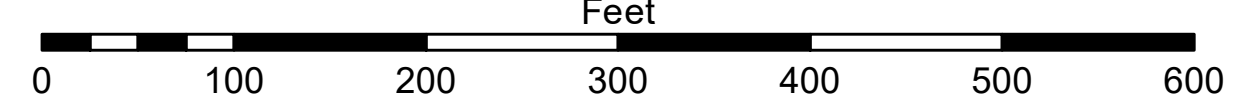


- LEGEND**
- Cable Submarine
  - - - Cable Overhead
  - ▭ Placement Area
  - ⬇ Beacon, General
  - Project Depths
  - Contour Lines
  - ▭ Channel Limits

- 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:**
1. THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 100' FOOT AREA CENTERED ON THE TEXT. DERIVED FROM A 1X1 FOOT AVAILABILITY DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTHS ARE PRODUCED FOR STRIKE/SWEEP OPERATIONS AND NOT FOR NAVIGATION INTERESTS.
  2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM (LWD) ZERO IS REFERENCED TO MEAN WATER LEVEL AT POINT ROUSSOU, QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED NOAA GAUGE LOCATED AT POINT ROUSSOU (004). DEPTHS ARE MEASURED USING AN RZSONIC 2024 MULTIBEAM SONAR.
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St. Marys River, MI  
Bay Mills Anchorage  
SM 02 BMA 20200622 CS  
22 June 2020

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Checked By:

Sanitized:  
Recommended:  
Approved:

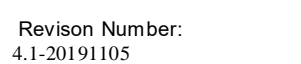
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DETROIT DISTRICT

Chief, Survey Section  
Chief, Technical Services

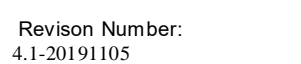
Sheet Reference Number  
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Revision Number:  
4.1-2019105

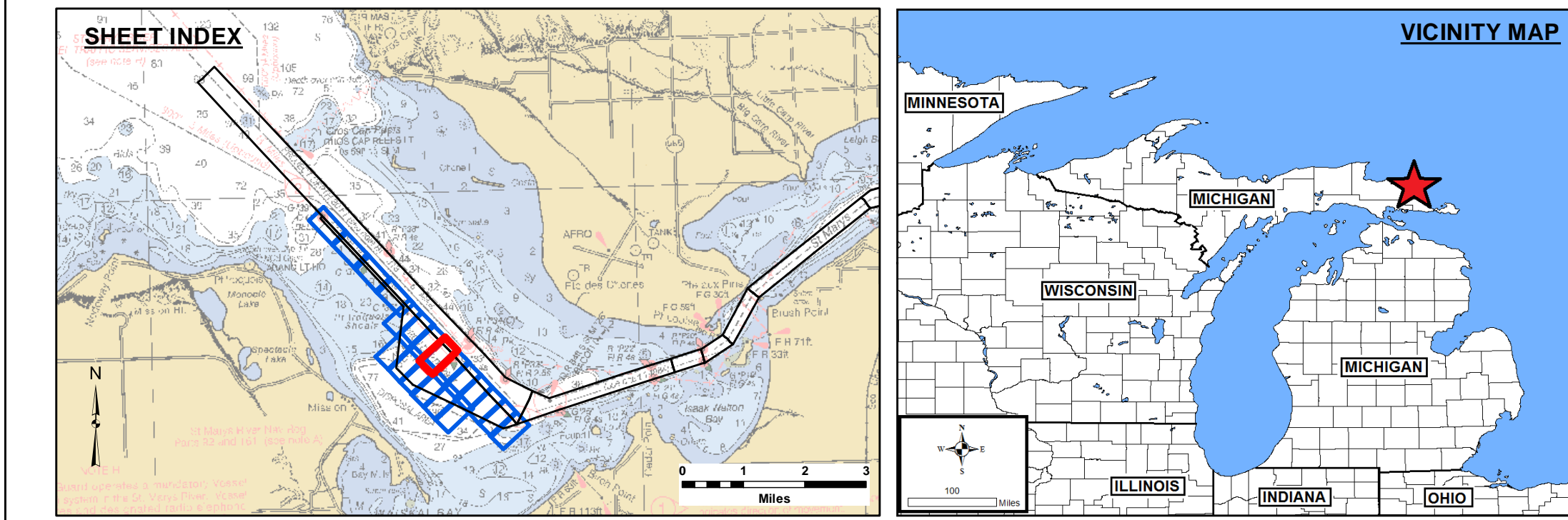
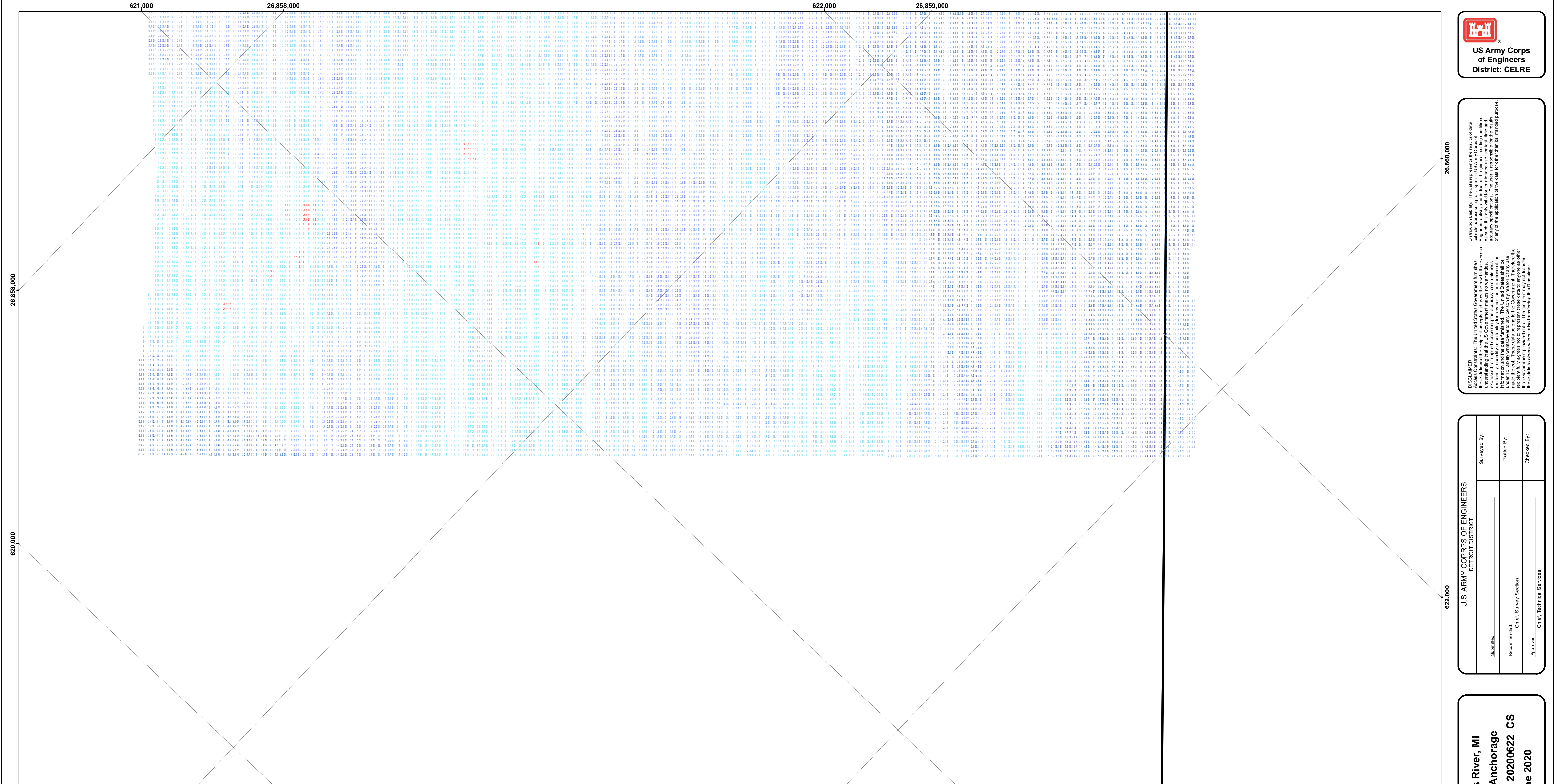






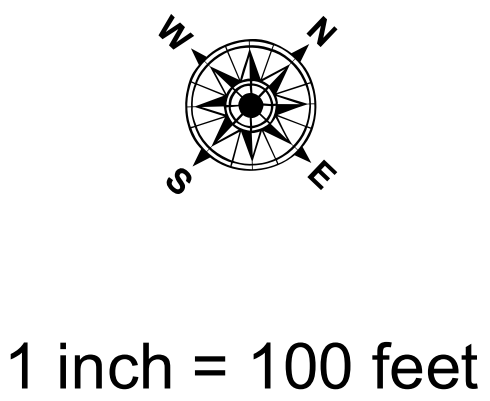






- LEGEND**
- ..... Cable Submarine
  - Cable Overhead
  - Placement Area
  - Beacon, General
  - Project Depths
  - Contour Lines
  - Channel Limits

- SOUNDING LEGEND**
- LESS THAN PROJECT DEPTH
  - PROJECT DEPTH
  - PROJECT DEPTH +1'
  - PROJECT DEPTH +2'
  - PROJECT DEPTH +3'
  - PROJECT DEPTH +4'
  - PROJECT DEPTH +5'



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  2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM (LWD) ZERO IS REFERENCED TO MEAN WATER LEVEL AT POINT ROUMOUX QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED NOAA GAUGE LOCATED AT POINT ROUMOUX (0004). DEPTHS ARE MEASURED USING AN RZSONIC 2024 MULTIBEAM SONAR.
  3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.
  4. HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM (RTK). CORRECTIONS ARE PROVIDED BY THE MICHIGAN CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS). THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POSMV VER 4.0.
  5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (211). NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
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- THE LOCATION OF NAVIGATION AIDS ARE BASE ON AND PROVIDED BY THE U.S. COAST GUARD. 2010 AERIAL PHOTOGRAPHY DATA SOURCE: USSS

St. Marys River, MI  
Bay Mills Anchorage  
SM 02\_BMA\_20200622\_CS  
22 June 2020

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Reference  
Number  
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Revision Number:  
4.1-2019105

U.S. ARMY CORPS OF ENGINEERS  
DETROIT DISTRICT

Submitted:  
Recommended:  
Checked By:  
Approved:

Surveyed By:  
Plotted By:  
Chief, Survey Section  
Chief, Technical Services

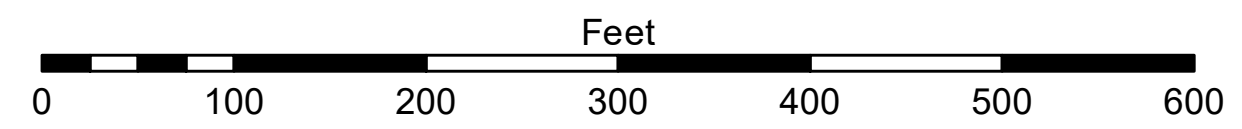
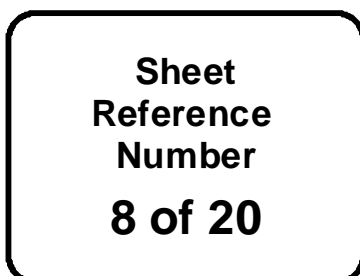
US Army Corps of Engineers  
District: CELRE

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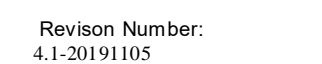


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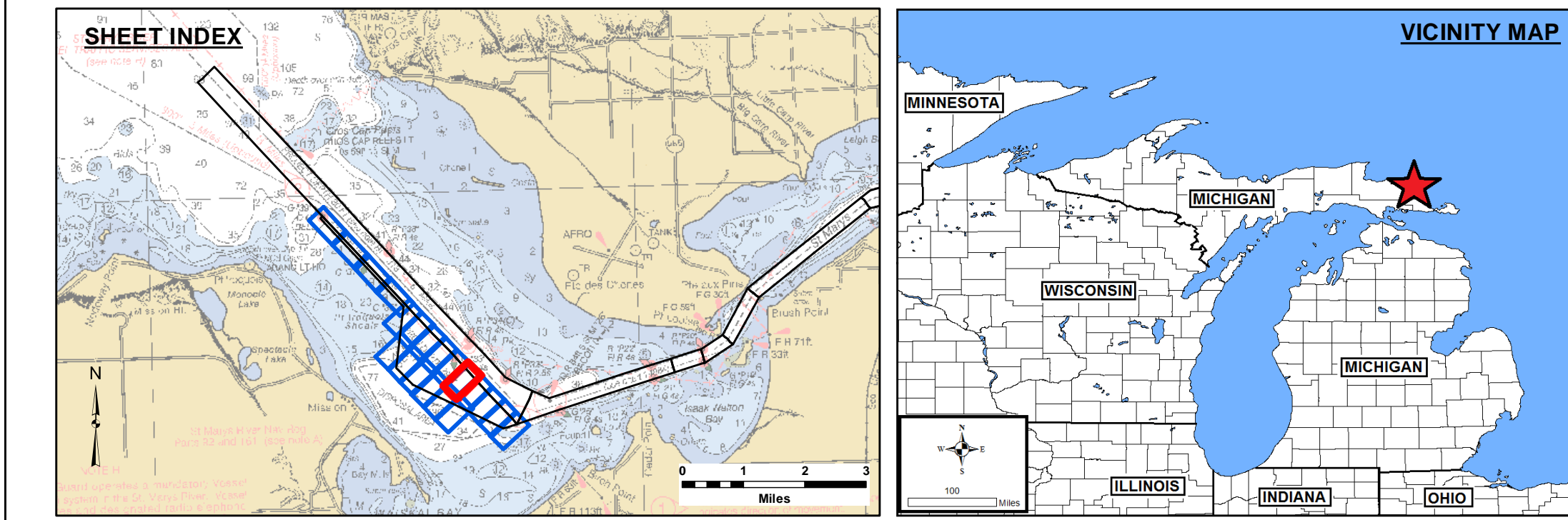
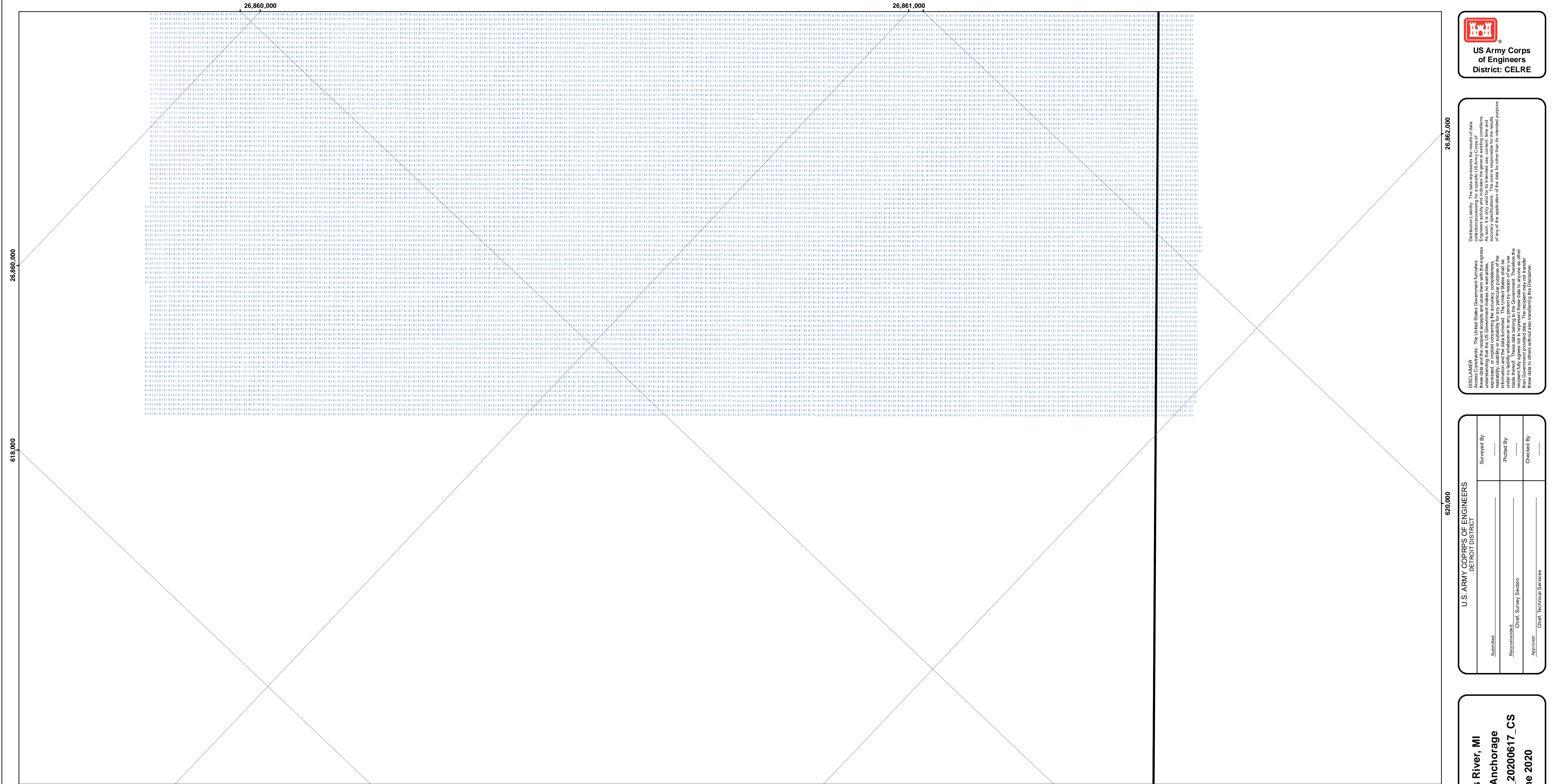
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3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.
4. HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM (RTK) CORRECTED DATA PROVIDED BY THE MICHIGAN CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS). THE GPS RECEIVER IS MANUFACTURED BY APPLIXX MARINE POSMV M4R V.0.
5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (211). NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
6. PROJECT DEPTHS FOR THE BAY MILLS ANCHORAGE AREA ±29.0 BELOW THE U.S. GREAT LAKES 2010 DATUM.

THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD. 2010 DATUM.

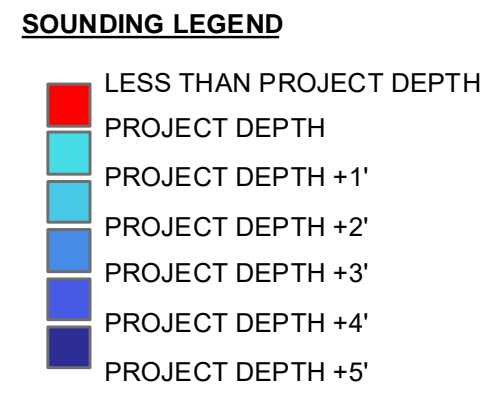




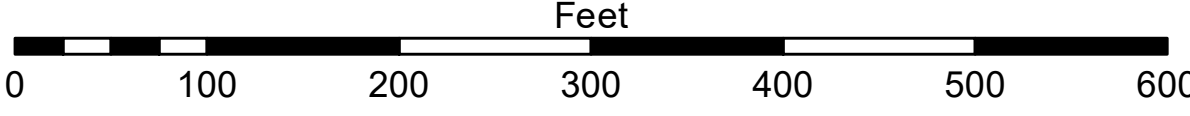




- LEGEND**
- Cable Submarine
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1 inch = 100 feet



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St. Marys River, MI  
Bay Mills Anchorage  
SM\_02\_BMA\_20200617\_CS  
17 June 2020

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Reference  
Number  
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U.S. ARMY CORPS OF ENGINEERS  
DETROIT DISTRICT

Submitted: \_\_\_\_\_

Recommended: \_\_\_\_\_  
Chief, Survey Section

Approved: \_\_\_\_\_  
Chief, Technical Services

Surveyed By: \_\_\_\_\_

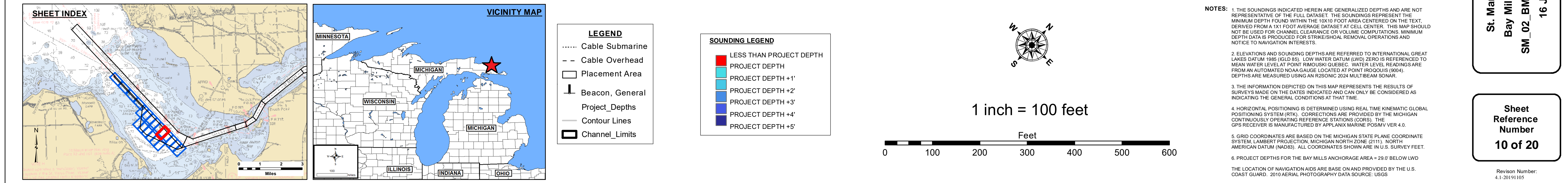
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Checked By: \_\_\_\_\_

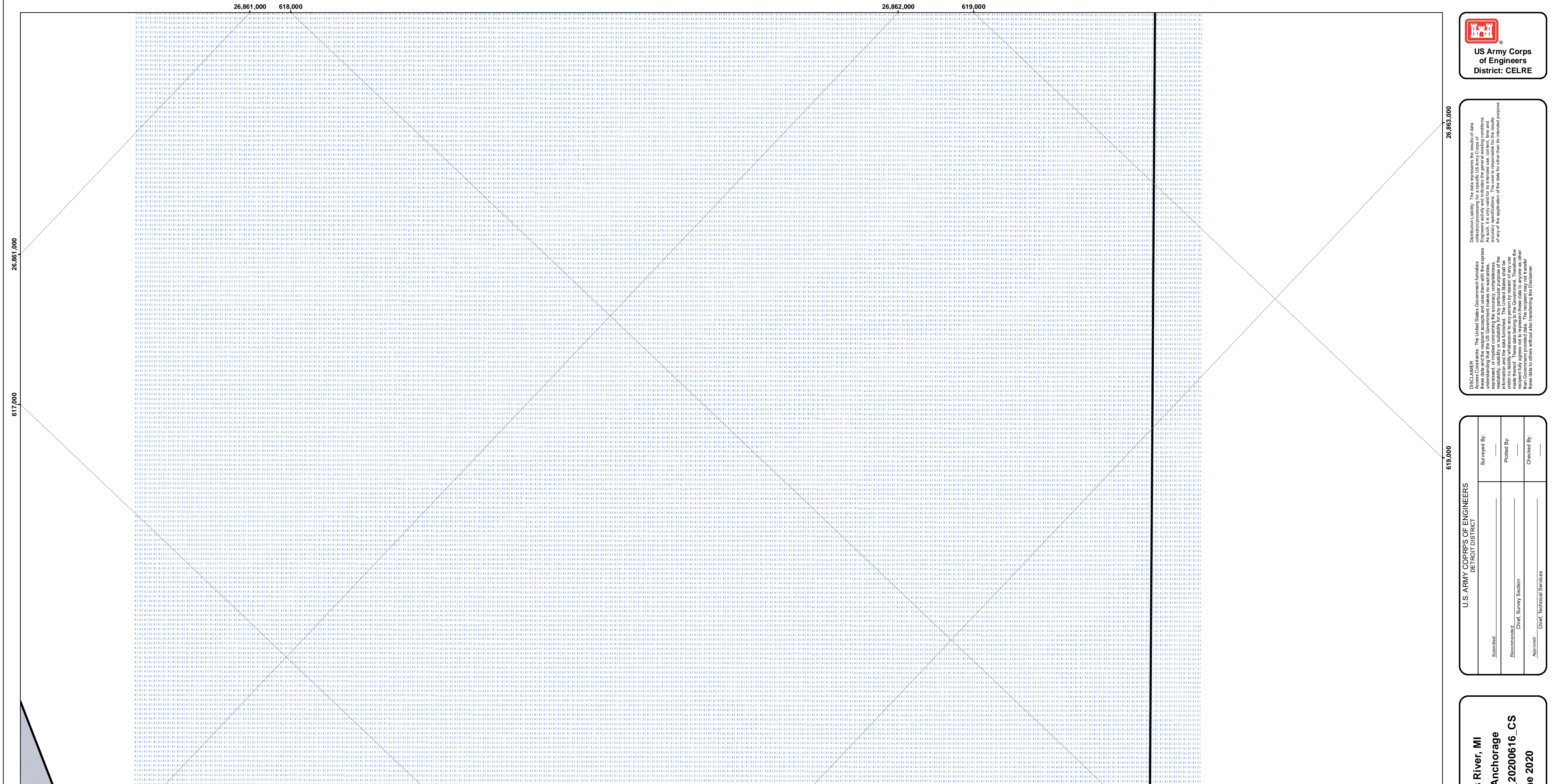
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US Army Corps  
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**SHEET INDEX**

**VICINITY MAP**

**LEGEND**

- Cable Submarine
- - - Cable Overhead
- ▭ Placement Area
- ⬮ Beacon, General
- Project Depths
- Contour Lines
- ▭ Channel Limits

**SOUNDING LEGEND**

- LESS THAN PROJECT DEPTH
- PROJECT DEPTH
- PROJECT DEPTH +1'
- PROJECT DEPTH +2'
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**NOTES:**

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3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.
4. HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM (RTK). CORRECTIONS ARE PROVIDED BY THE MICHIGAN STATE SURVEY (MSU). STATIONING REFERENCE IS TO THE MICHIGAN STATE SURVEY GPS RECEIVER IS MANUFACTURED BY APPLINX MARINE POSSEY VER 4.0.
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6. PROJECT DEPTHS FOR THE BAY MILLS ANCHORAGE AREA = 29' BELOW LWD.

**St. Marys River, MI**

**Bay Mills Anchorage**

**SM 02 BMA 20200616 CS**

**16 June 2020**

**Sheet Reference Number 11 of 20**

**1 inch = 100 feet**

**Feet**

0 100 200 300 400 500 600

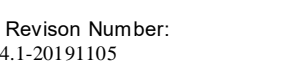


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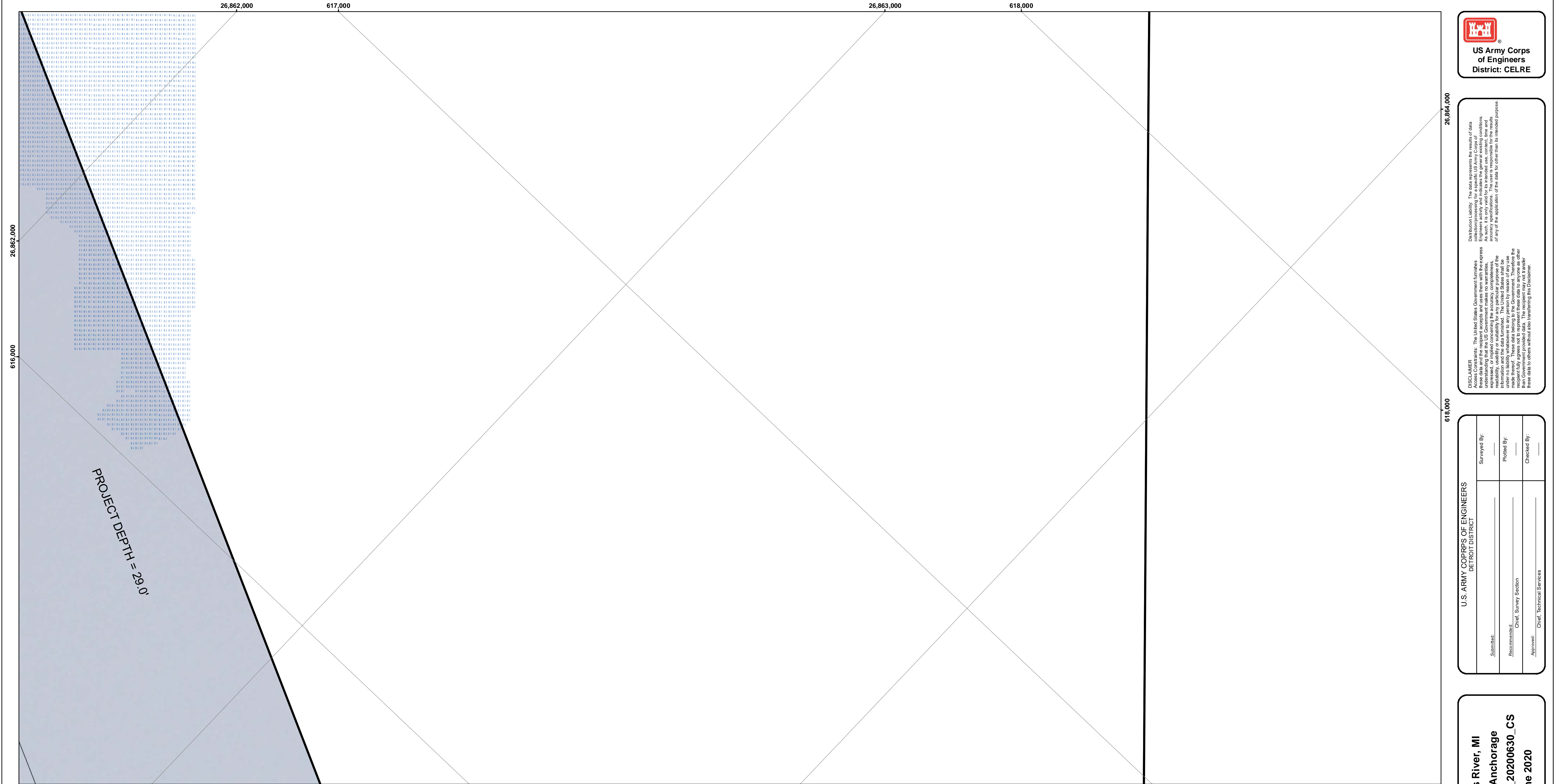
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Plotted By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Stamper: \_\_\_\_\_  
Recommender: \_\_\_\_\_  
Chief, Survey Section  
Approved: \_\_\_\_\_  
Chief, Technical Services









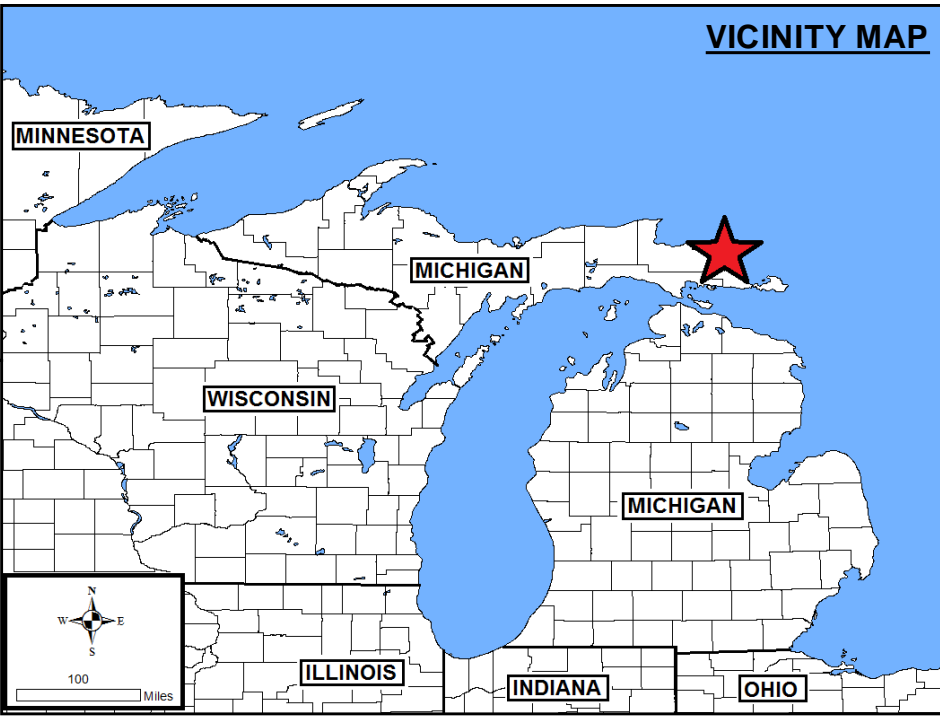
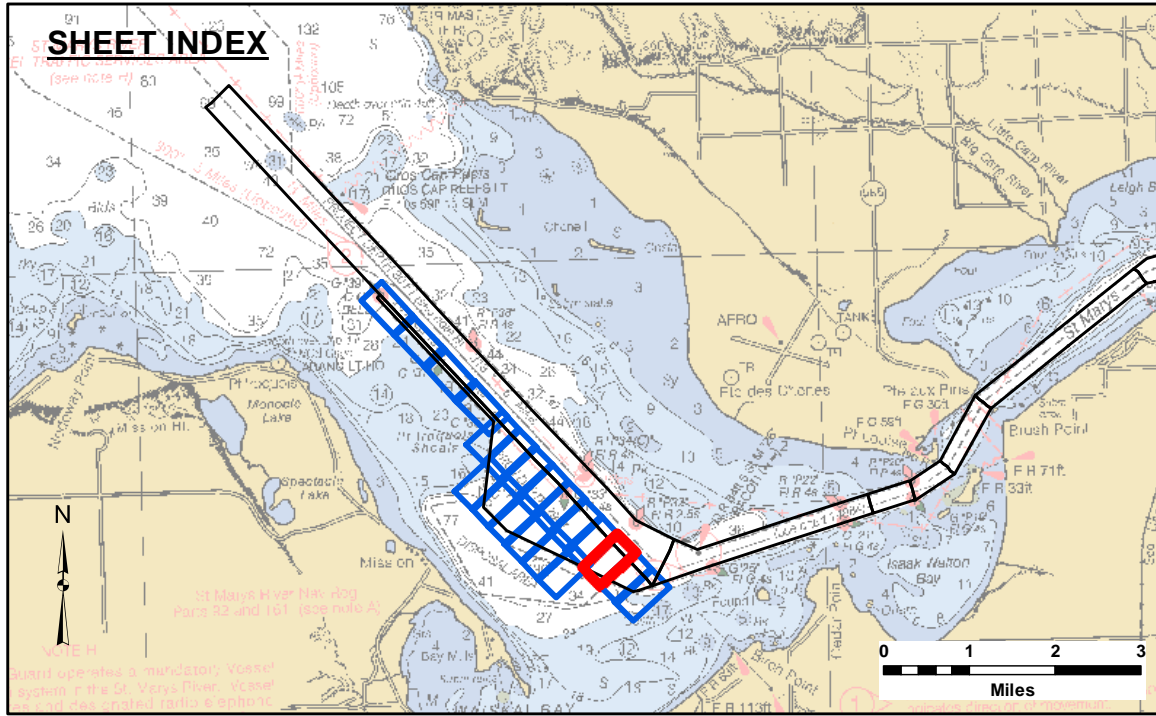
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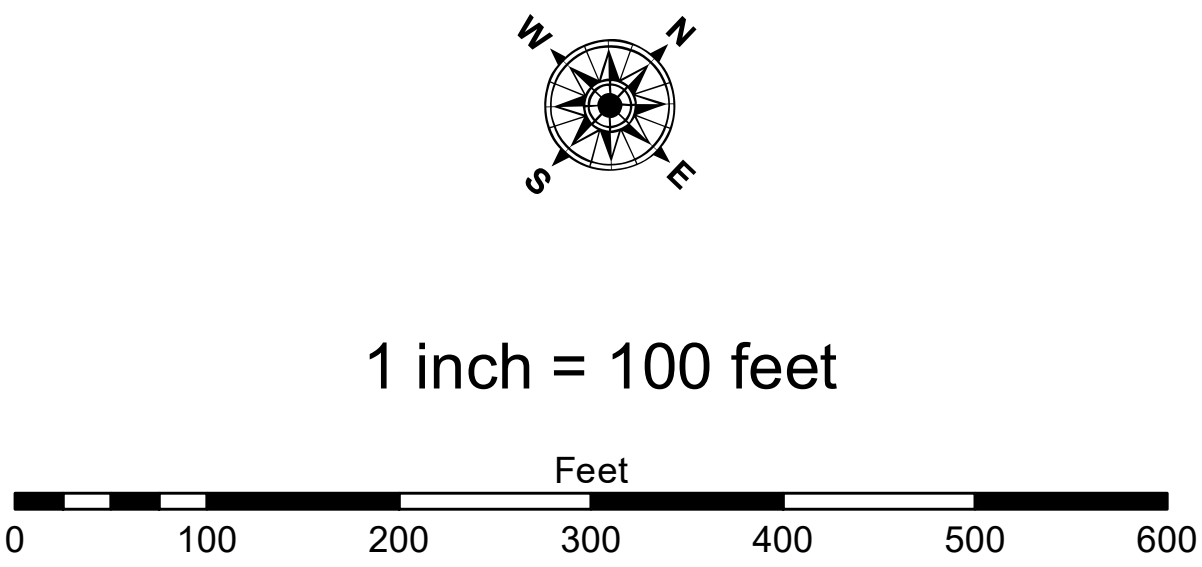
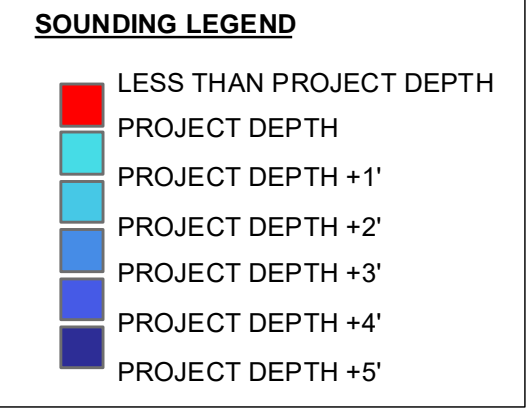
U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT	
Submitted: _____	Surveyed By: _____
Recommended: _____	Printed By: _____
Approved: _____	Checked By: _____

St. Marys River, MI  
Bay Mills Anchorage  
SM\_02\_BMA\_20200630\_CS  
30 June 2020

Sheet  
Reference  
Number  
12 of 20



- LEGEND**
- ..... Cable Submarine
  - Cable Overhead
  - Placement Area
  - ┆ Beacon, General
  - Project\_Depths
  - Contour Lines
  - ▭ Channel\_Limits



**NOTES:**

1. 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/SOAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.

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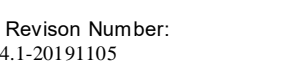
4. HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM (RTK). CORRECTIONS ARE PROVIDED BY THE MICHIGAN CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS). THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POSMV VER 4.0.

5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (2111). NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

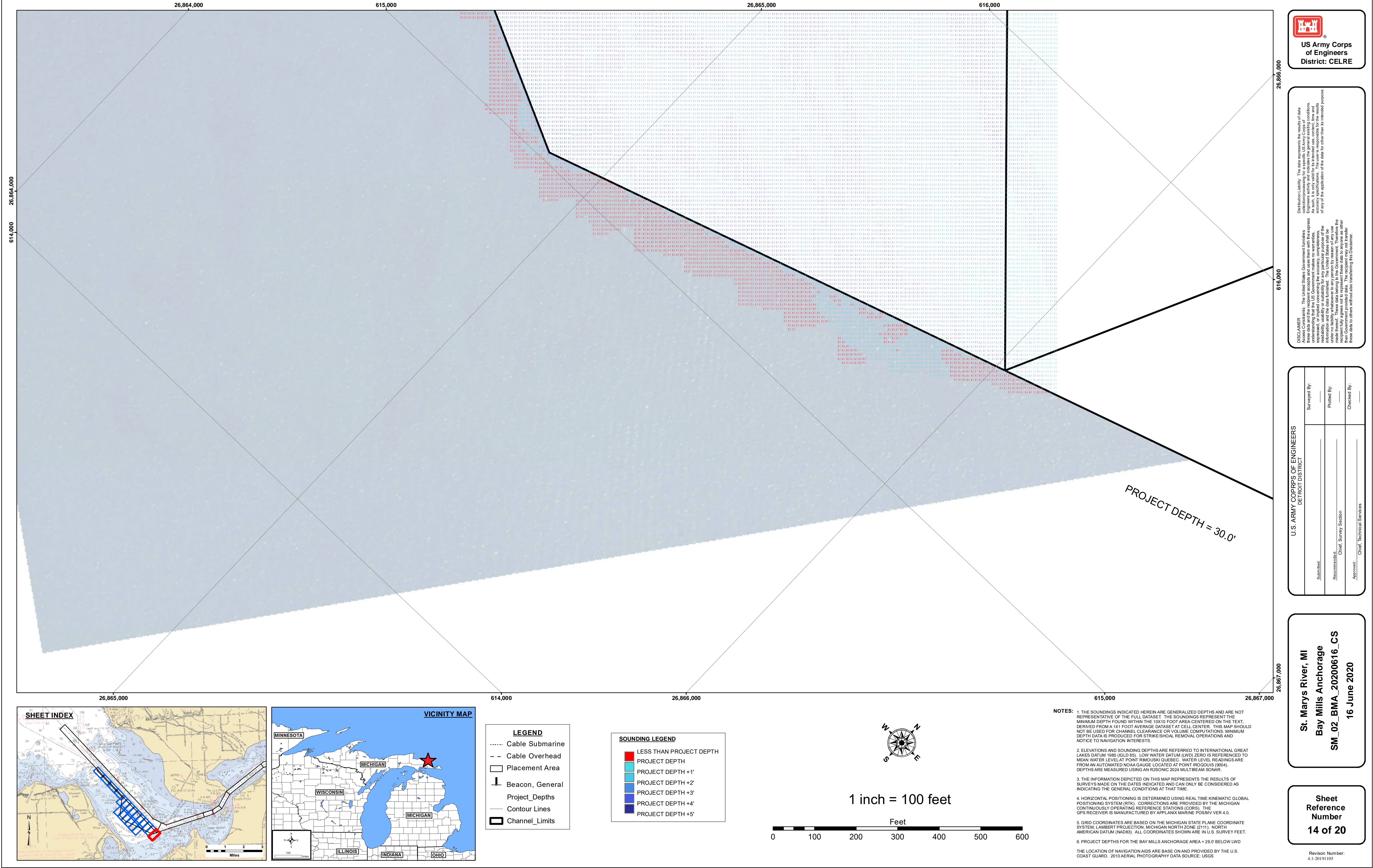
6. PROJECT DEPTHS FOR THE BAY MILLS ANCHORAGE AREA = 29.0' BELOW LWD

THE LOCATION OF NAVIGATION AIDS ARE BASE ON AND PROVIDED BY THE U.S. COAST GUARD. 2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS









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Submitted:	Surveyed By:
Recommended:	Plotted By:
Approved:	Checked By:

U.S. ARMY CORPS OF ENGINEERS  
DETROIT DISTRICT

**St. Marys River, MI**

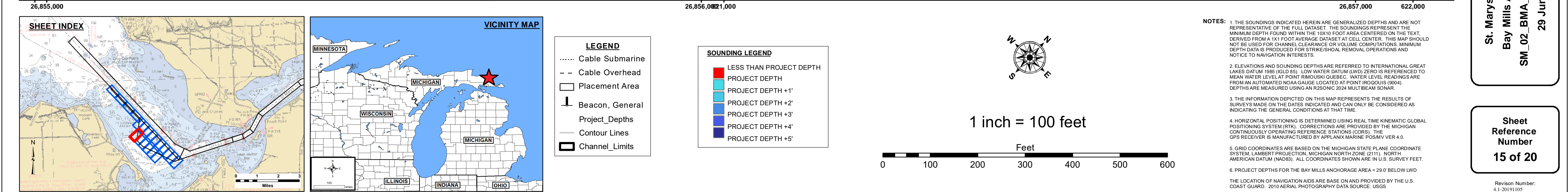
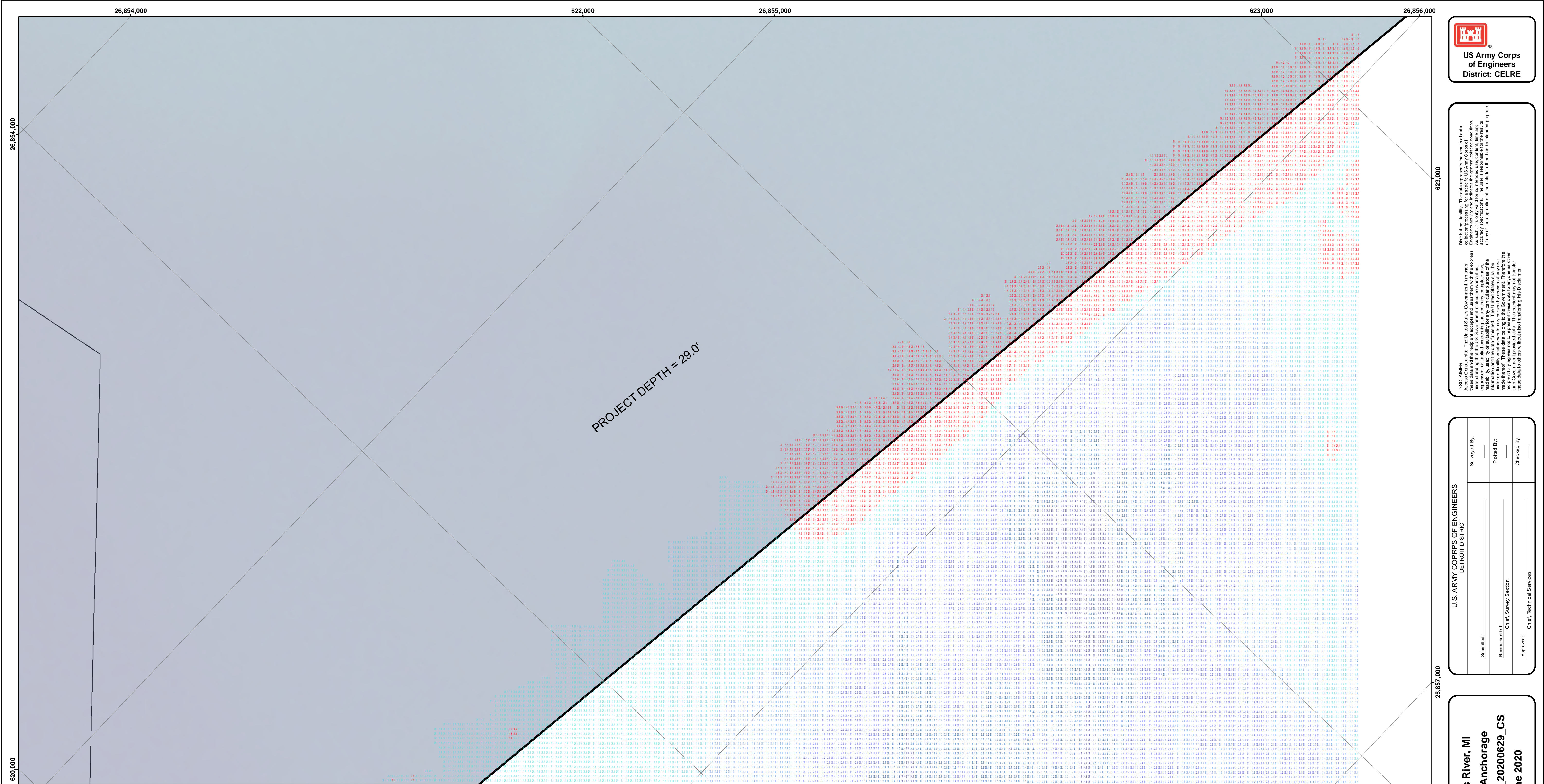
**Bay Mills Anchorage**

**SM\_02\_BMA\_20200616\_CS**

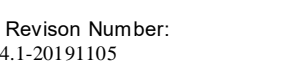
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**Sheet Reference Number 14 of 20**

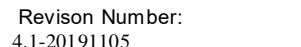




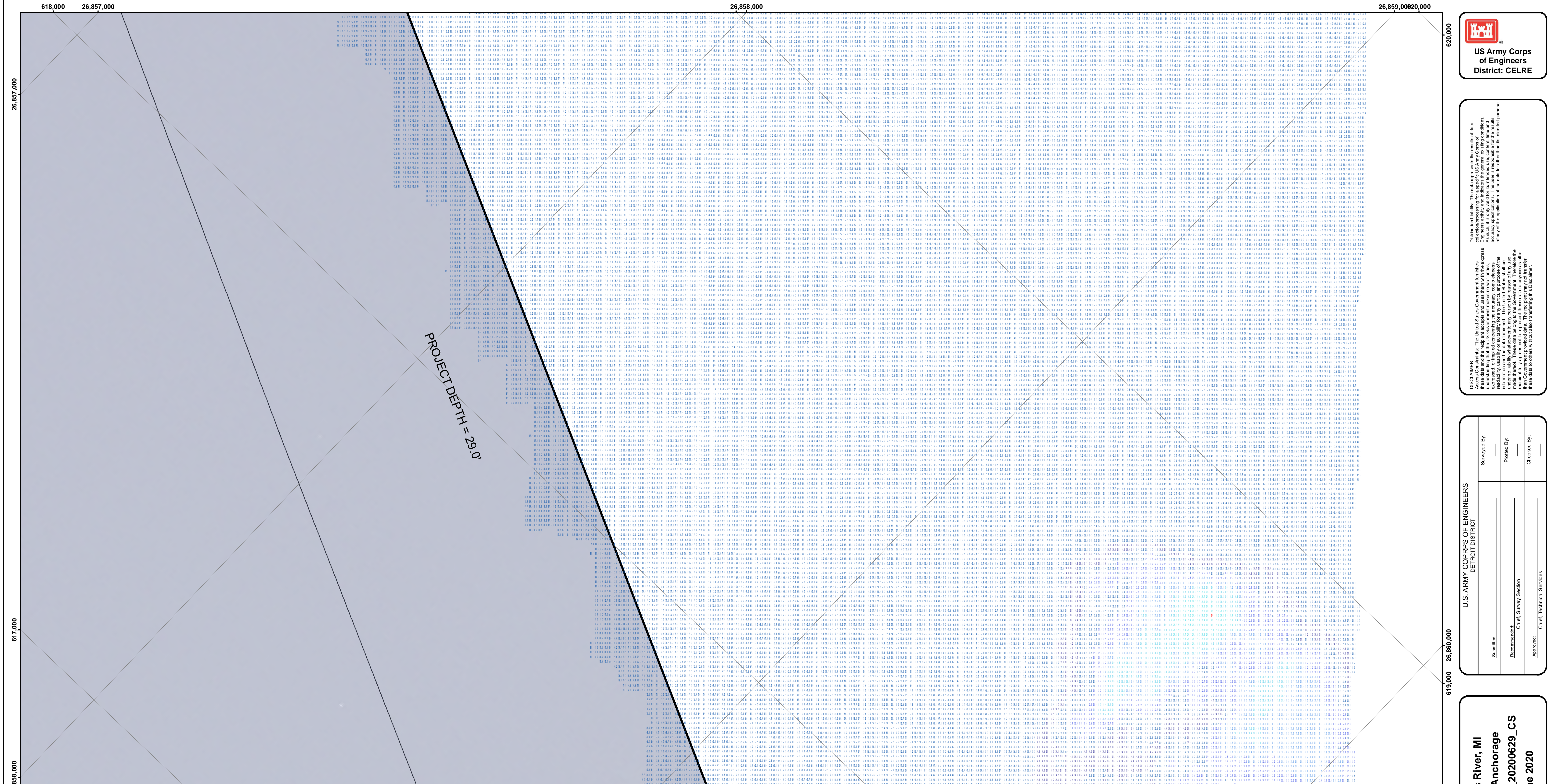












VICINITY MAP

**LEGEND**

- Cable Submarine
- - - Cable Overhead
- ▭ Placement Area
- ⬮ Beacon, General
- Project Depths
- 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'

**NOTES:**

- THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 100' X 100' AREA CENTERED ON THE POINT, DERIVED FROM A 1X1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTHS ARE PROVIDED FOR STRIKE/SWEEP/REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.
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- HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM (RTK). CORRECTIONS ARE PROVIDED BY THE MICHIGAN SURVEYING OPERATING REFERENCE STATION (MORS). THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (211), NORTH AMERICAN DATUM (NAD83), ALL COORDINATES SHOWN ARE IN U.S. FEET.
- GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (211), NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. FEET.
- PROJECT DEPTHS FOR THE BAY MILLS ANCHORAGE AREA = 29'0" BELOW LWD.

1 inch = 100 feet

0 100 200 300 400 500 600 Feet

**St. Marys River, MI**

**Bay Mills Anchorage**

**SM 02 BMA\_20200629 CS**

**29 June 2020**

**Sheet Reference Number 18 of 20**

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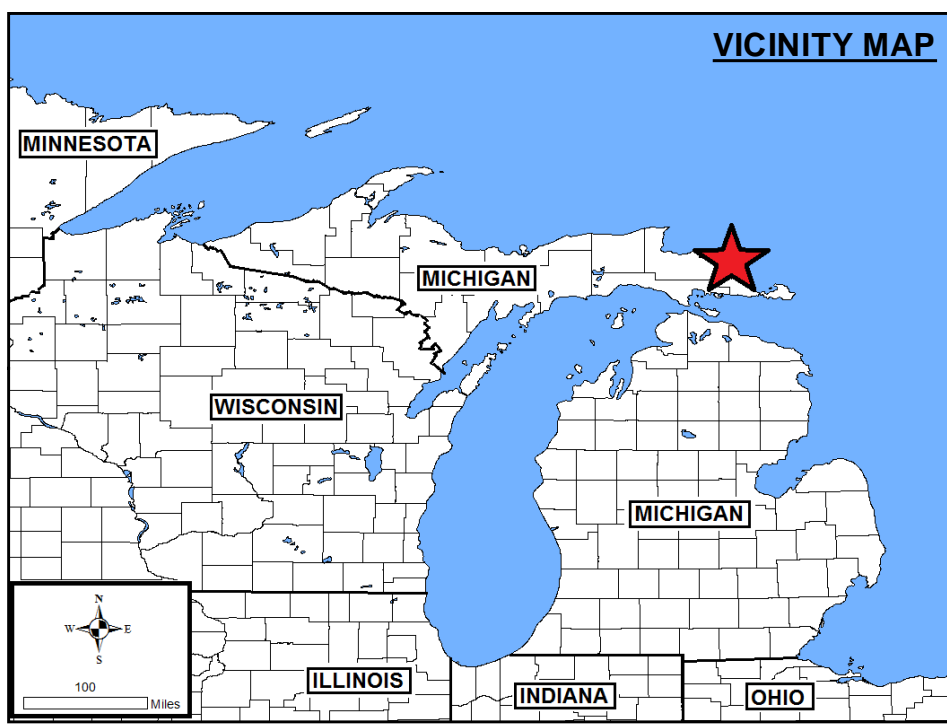
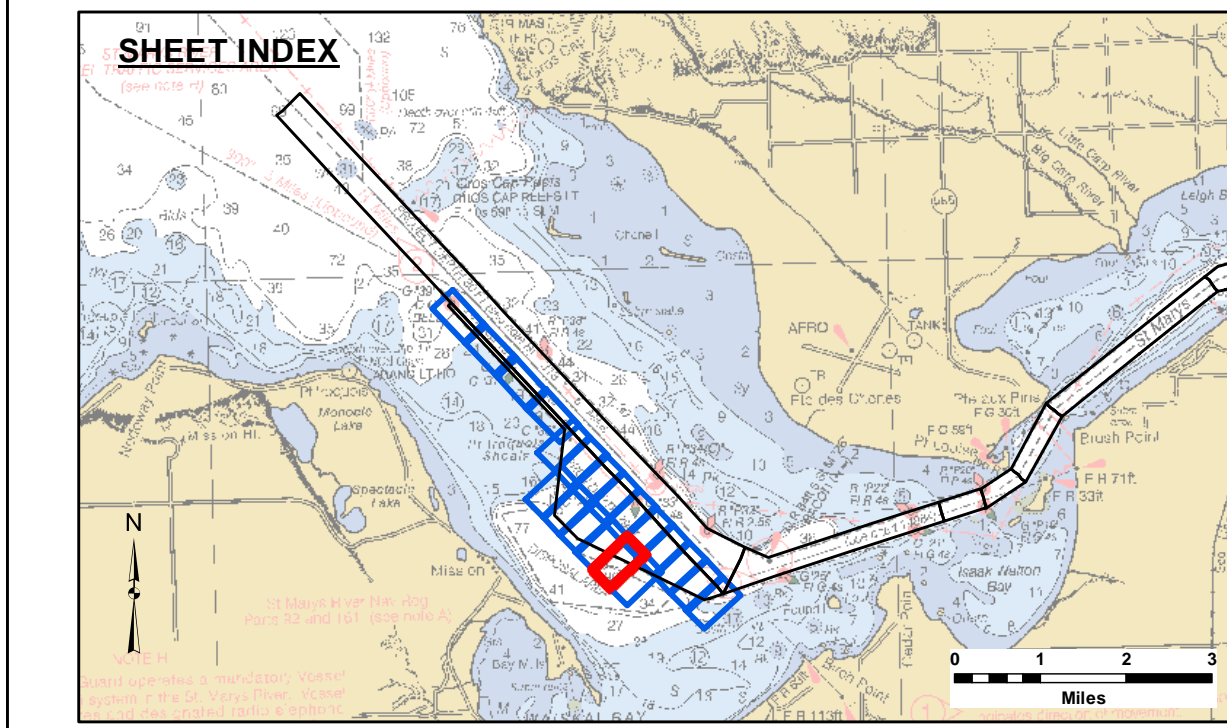
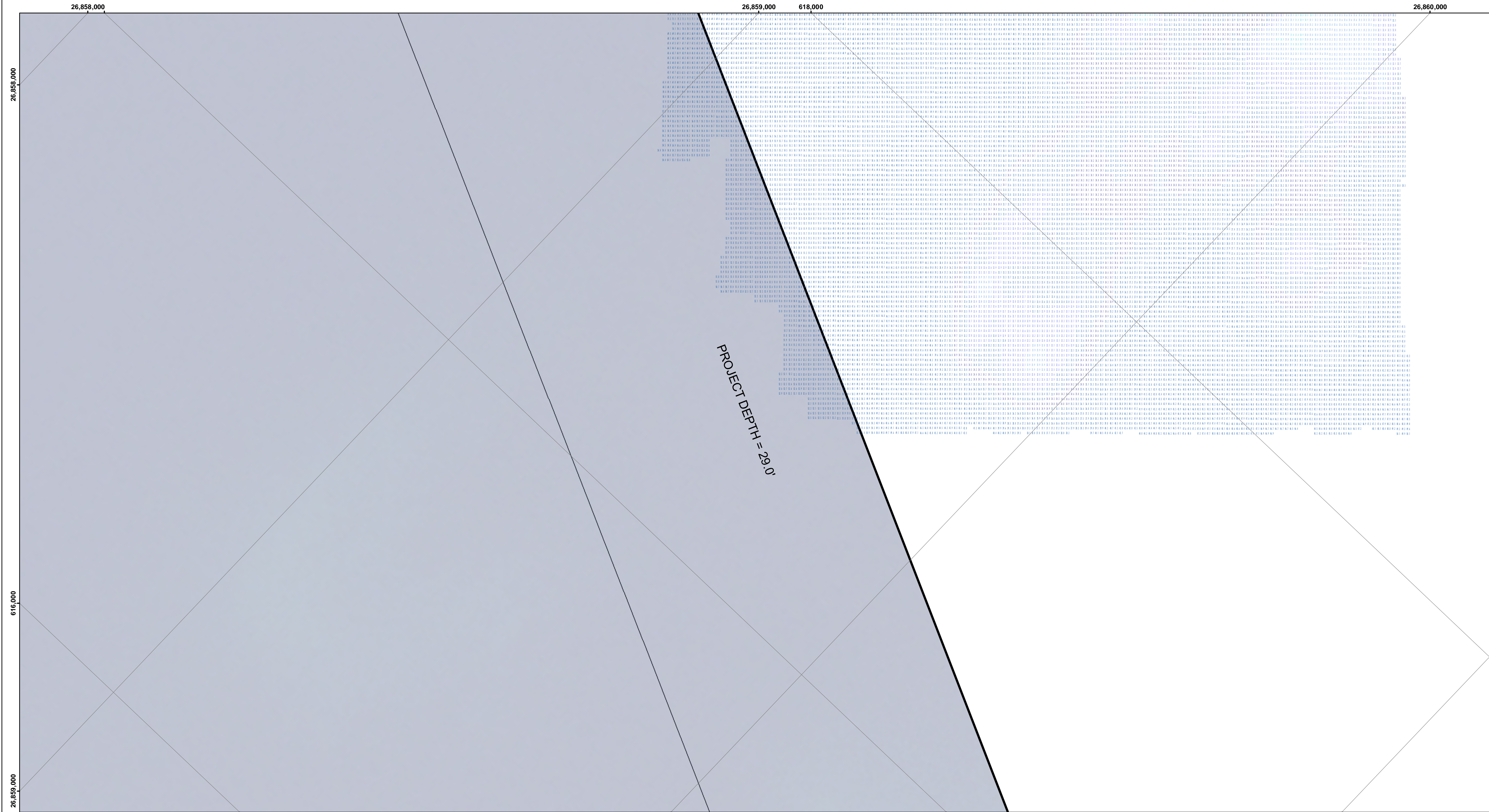
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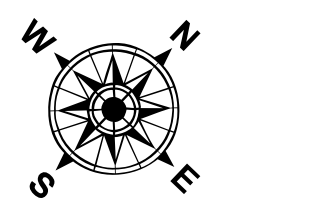
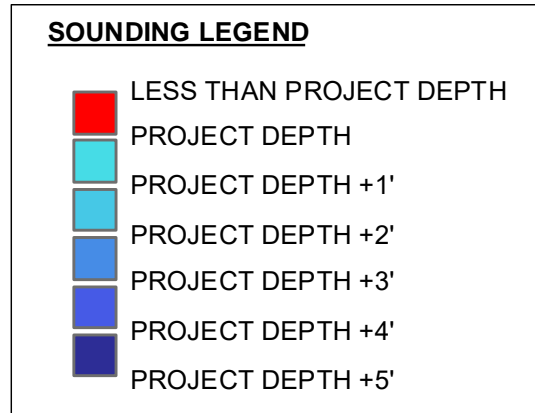
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Plotted By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Stamper: \_\_\_\_\_  
Recommend: \_\_\_\_\_  
Approved: \_\_\_\_\_  
Chief, Technical Services

Revision Number: 4  
2019.01.05

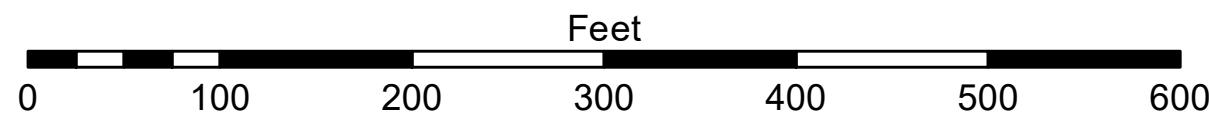




- LEGEND**
- ..... Cable Submarine
  - Cable Overhead
  - Placement Area
  - ┆ Beacon, General
  - Project\_Depths
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  - Channel\_Limits



1 inch = 100 feet



- NOTES:**
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  5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (211). NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
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- THE LOCATION OF NAVIGATION AIDS ARE BASED ON AND PROVIDED BY THE U.S. COAST GUARD. 2010 AERIAL PHOTOGRAPHY DATA SOURCE: USSS



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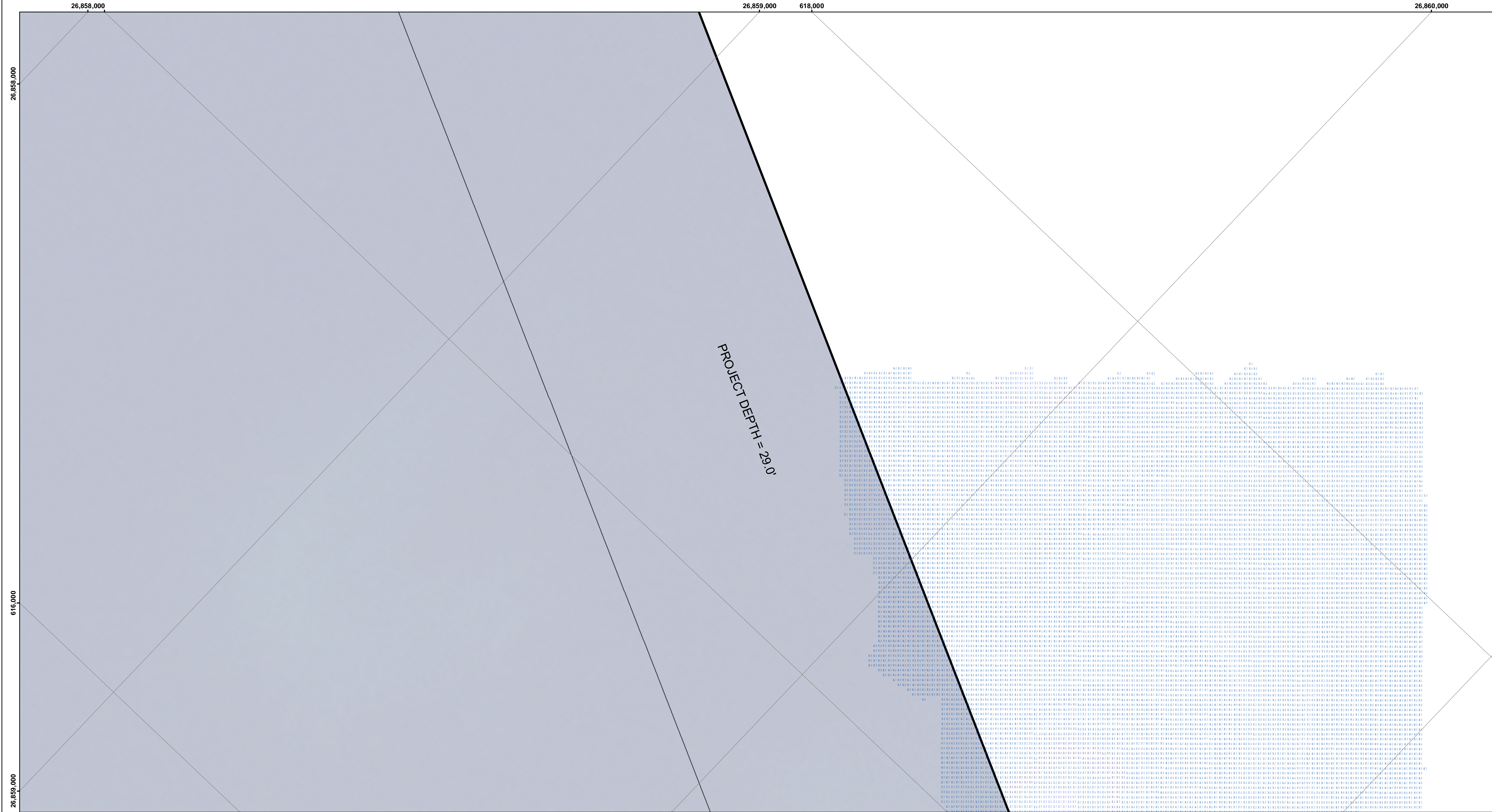
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Submitted:	Surveyed By:
Recommended:	Plotted By:
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St. Marys River, MI  
Bay Mills Anchorage  
SM\_02\_BMA\_20200629\_CS  
29 June 2020

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Number  
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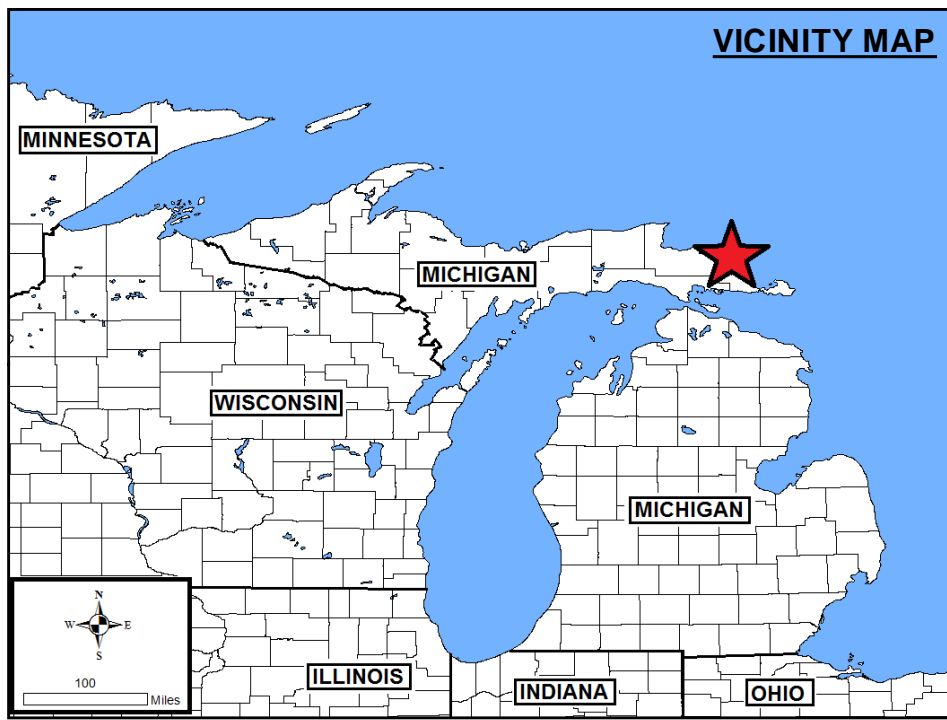
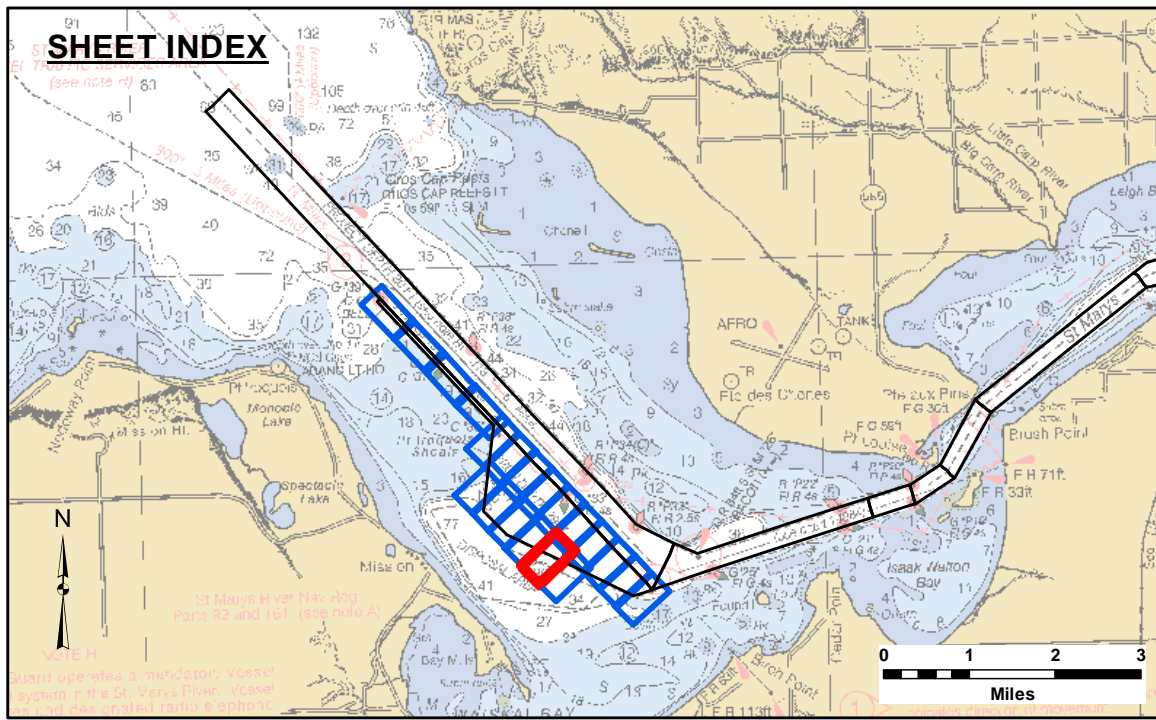
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St. Marys River, MI  
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SM\_02\_BMA\_20200630\_CS  
30 June 2020

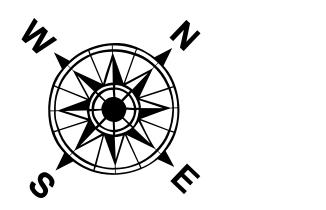
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Revision Number:  
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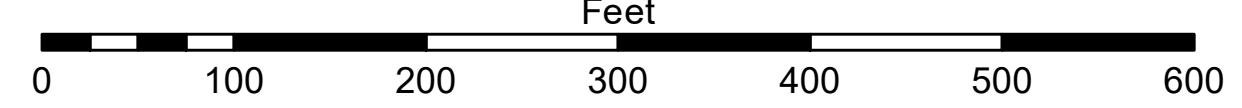


- LEGEND**
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