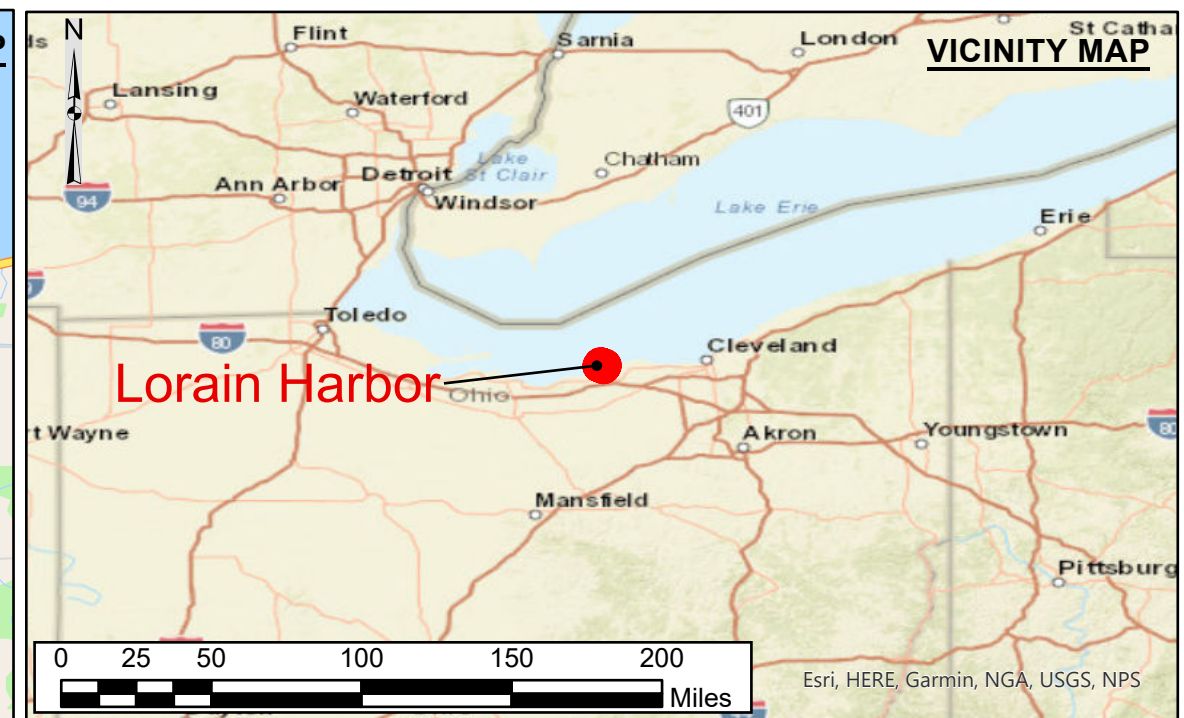
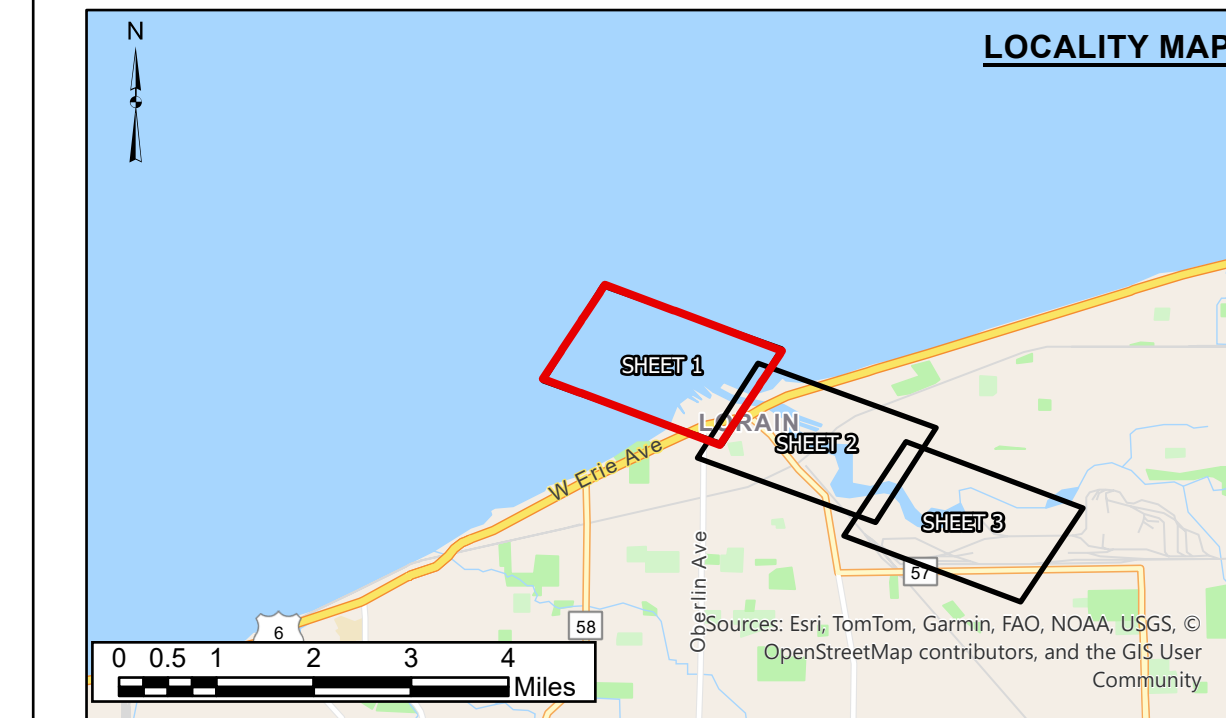
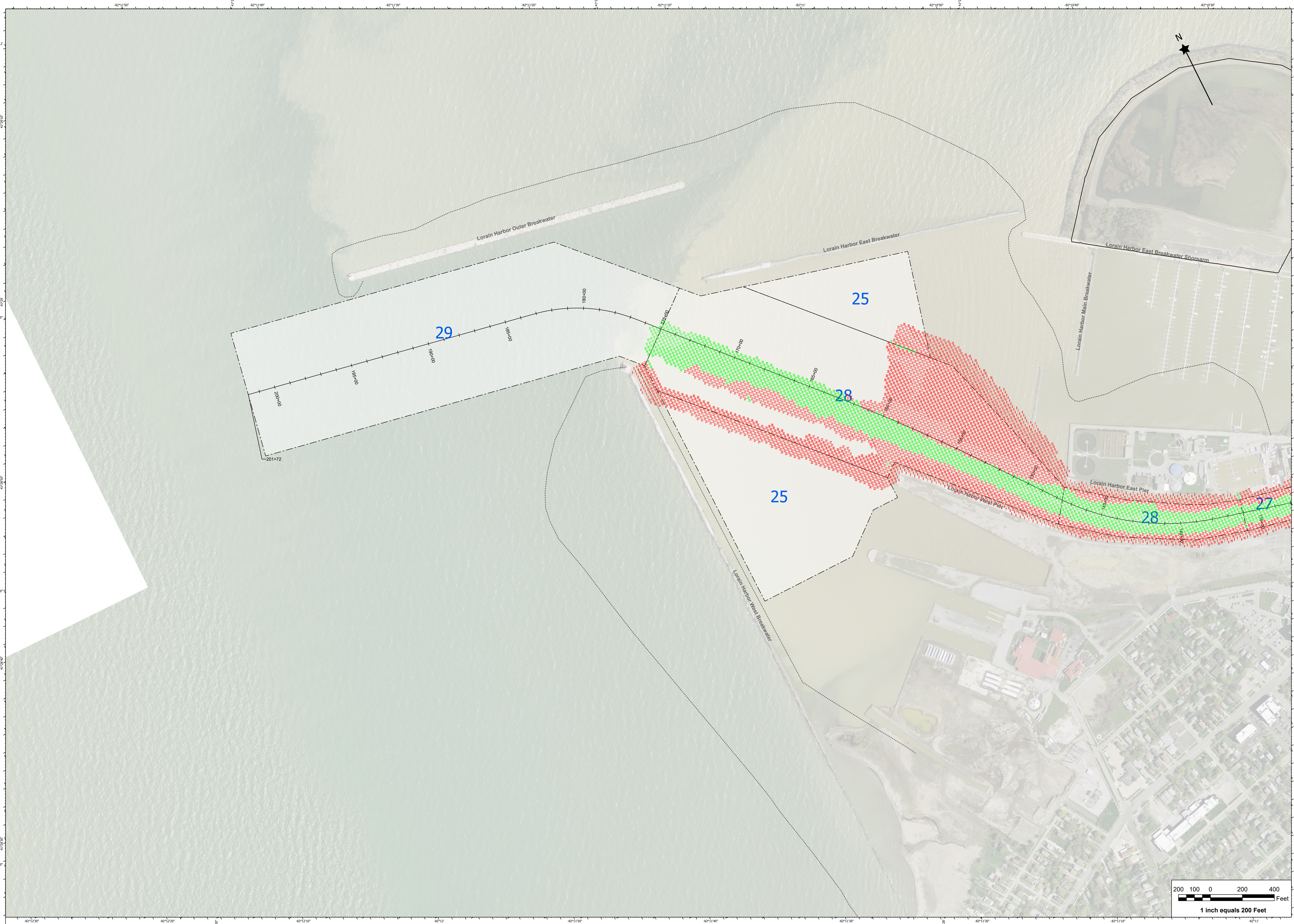


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LEGEND

--- FEDERAL NAVIGATION CHANNEL	○ CHANNEL CORNER POINTS
..... CABLE SUBMARINE	◆ RED NAVIGATION BUOY
- - - CABLE OVERHEAD	◆ GREEN NAVIGATION BUOY
▨ CABLE AREA	⬮ FIXED LIGHT
▭ PLACEMENT AREA	XX DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
▭ ANCHORAGE AREA	XX DEPTHS AT OR BELOW PROJECT DEPTH
X+XX CHANNEL STATIONING	
XXX PROJECT DEPTH	

ABBREVIATIONS

W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
OC	OCCULATING LIGHT
ISO	EQUAL INTERVAL
AL	ALTERNATING
Q	QUICK (FLASHING)
S	LIGHT CYCLE SECONDS

- SITE SPECIFIC NOTES:**
- PROJECT DEPTHS AND SOUNDINGS ARE REFERRED TO LOW WATER DATUM OF 569.2 IGLD 1985
 - HORIZONTAL CONTROL IS REFERRED TO NORTH AMERICAN DATUM 1983/2011 OHIO STATE PLANE COORDINATE SYSTEM - NORTH ZONE
 - PROJECT DEPTH IS AS SHOWN BELOW LOW WATER DATUM
 - THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.
 - AERIAL IMAGERY DATED 2018
 - BACKGROUND IMAGERY DATA SOURCE: OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM
 - THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINE IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110-2-1003.
 - SOUNDINGS SHOWN REPRESENT THE SHOALEST SOUNDING FROM A 20X20 HYPACK MATRIX

SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY B. MUNRO AND PARTY
USING: GPS POSITIONING- GPS BASE STATION WITH RTK TIDES
SONAR HEAD: 200 KHZ, RESON T50 1.0 DEGREE BEAMS 150 DEGREE ARC
HEAVE PITCH AND ROLL: APPLANIX POS-MV VER. 5
VELOCITY PROFILER: SONTEK CASTAWAY CTD
HYPACK SURVEY SOFTWARE
SURVEY VESSEL: MONSON

US Army Corps of Engineers
District: CELRB

USER NAME: HSTD0JDP
DATE: 9/14/2026

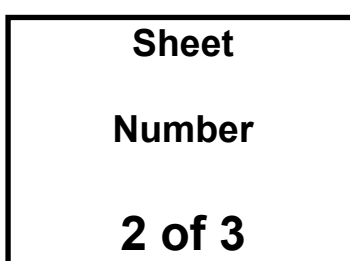
REVISION HISTORY

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U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207-3199

LORAIN HARBOR, OHIO
SURVEY TYPE: BEFORE DREDGE
SURVEY DATE: SEPT 09 2026

Sheet
Number
1 of 3



<https://navigation.usace.army.mil/Survey/Hydro> This chart was produced to comply with USACE Daily Tasking Order 16-02-22.



USER NAME: H5TDOJDP
DATE: 9/14/2026

	REVISION HISTORY

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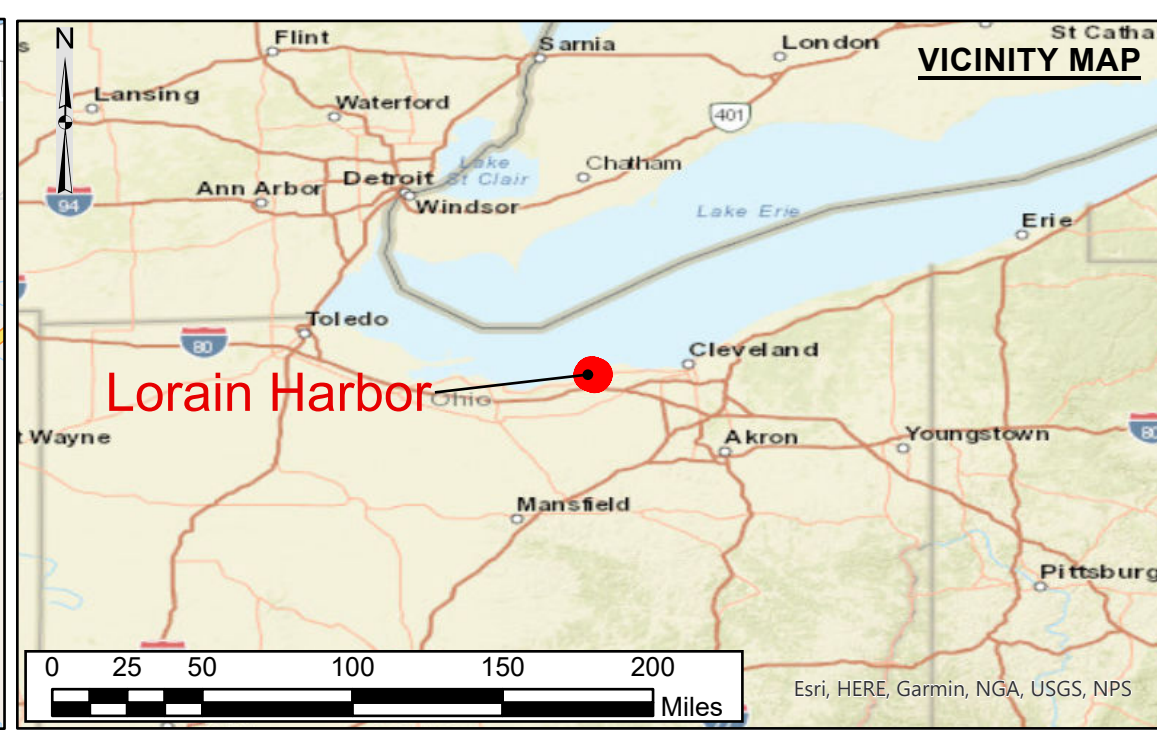
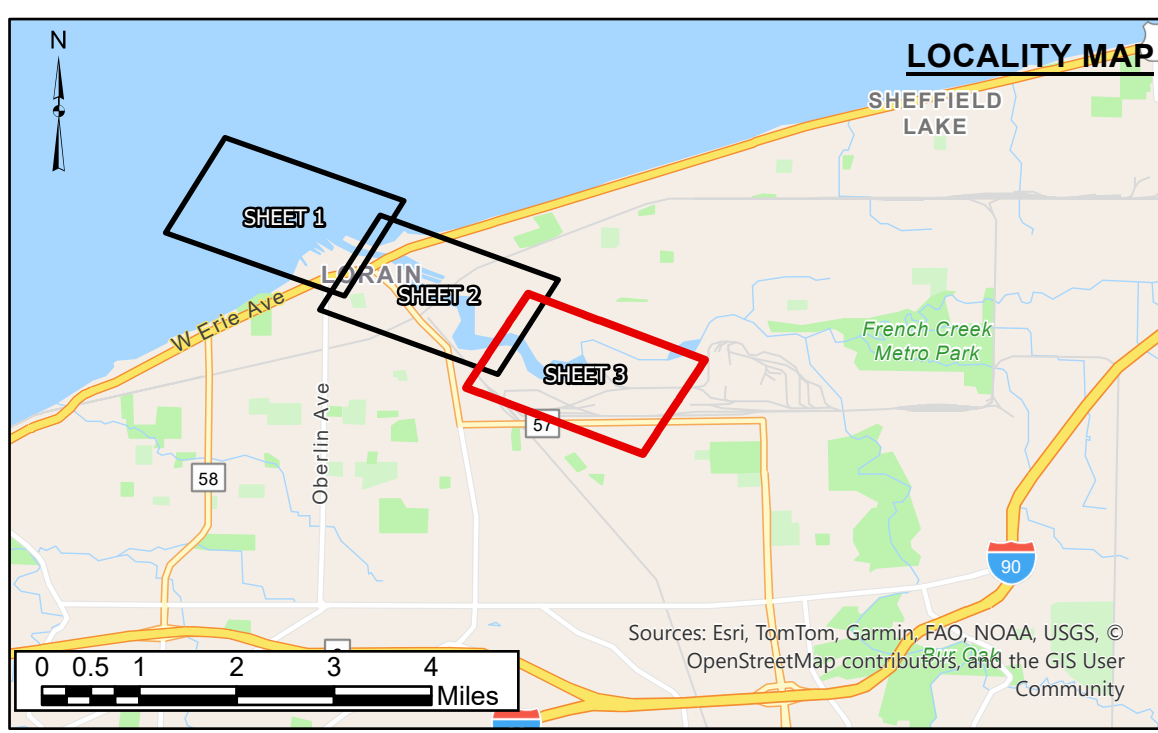
Down by:	Approved: _____ Date: _____
Checked by: _____	
Reviewed by: _____	

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207-3199

LORAIN HARBOR, OHIO

SURVEY TYPE: BEFORE DREDGE
SURVEY DATE: SEPT 09 2026

Sheet
Number
3 of 3



LEGEND

---	FEDERAL NAVIGATION CHANNEL	○	CHANNEL CORNER POINTS
.....	CABLE SUBMARINE	♦	RED NAVIGATION BUOY
- - -	CABLE OVERHEAD	♦	GREEN NAVIGATION BUOY
	CABLE AREA		FIXED LIGHT
	PLACEMENT AREA	XX	DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
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X+XX	CHANNEL STATIONING		
XX.X	PROJECT DEPTH		

ABBREVIATIONS

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SITE SPECIFIC NOTES:

1. PROJECT DEPTHS AND SOUNDINGS ARE REFERRED TO LOW WATER DATUM OF 569.2 IGLD 1985
2. HORIZONTAL CONTROL IS REFERRED TO NORTH AMERICAN DATUM 1983/2011 OHIO STATE PLANE COORDINATE SYSTEM - NORTH ZONE
3. PROJECT DEPTH IS AS SHOWN BELOW LOW WATER DATUM
4. THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.
5. AERIAL IMAGERY DATED 11/10/12
6. BACKGROUND IMAGERY DATA SOURCE: OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM
7. THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINE IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110-2-1003
8. SOUNDINGS SHOWN REPRESENT THE SHORLEAST SOUNDING FROM A 20X20 HYPACK MATRIX

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