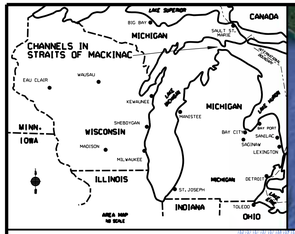

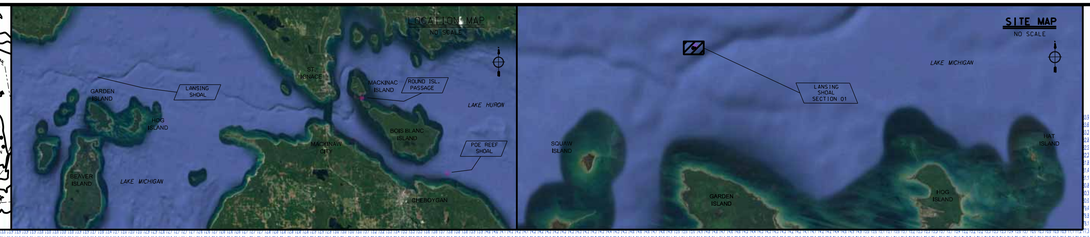

45°-53'-00"

85°-30'-45"

E 19,393,000

N 937,500

E 19,394,000

N 937,500

CS 0+00

CS 3+50

CS 5+75

400' S

600'S

900'S

LEGEND

0.0'
30.0'
40.0'
50.0'
60.0'
70.0'
80.0'
90.0'
150.0'

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 CALCULATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL 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 577.5 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED NOAA GAUGE (5080) LOCATED AT MACKINAW CITY MICHIGAN. DEPTHS ARE MEASURED USING AN R2SONIC 2024 MULTIBEAM SONAR.

3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON SEPTEMBER 16, 2019 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

GENERAL NOTES

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 CLOSEST BASE STATION IS USED AS THE DETERMING FACTOR IN CORRECTION SELECTION. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POS/MV VER. 5.0.

5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN CENTRAL ZONE (2112). NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 30.0 FEET BELOW LOW WATER DATUM

N

100' 0 100' 200'

SCALE: 1" = 100'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE	APPR

MARK	APPR	DATE	DESCRIPTION

DATE: 20190916
SOLICITATION NO.:
CONTRACT NO.:
FILE NUMBER:

SURVEYED BY: J.Mrozek
DWN BY: JSM
CKD BY:
SUBMITTED BY:
ISSUE DATE:
PLOT SCALE: 100'
SIZE: ANSI D
FILE NAME: Lsh-r1016191.dgn

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
DETROIT, MICHIGAN

SOO AREA OFFICE
ST MARYS RIVER SECTION
119 EAST WATER STREET
SAULT STE. MARIE, MI 49783

CHANNELS IN THE STRAITS OF MACKINAC
STRAITS OF MACKINAC
FEDERAL NAVIGATION CHANNEL

LANSING SHOAL
SEPTEMBER 16, 2019
CONDITION SURVEY

SHEET IDENTIFICATION
LSH-01
SHEET 1 OF 1