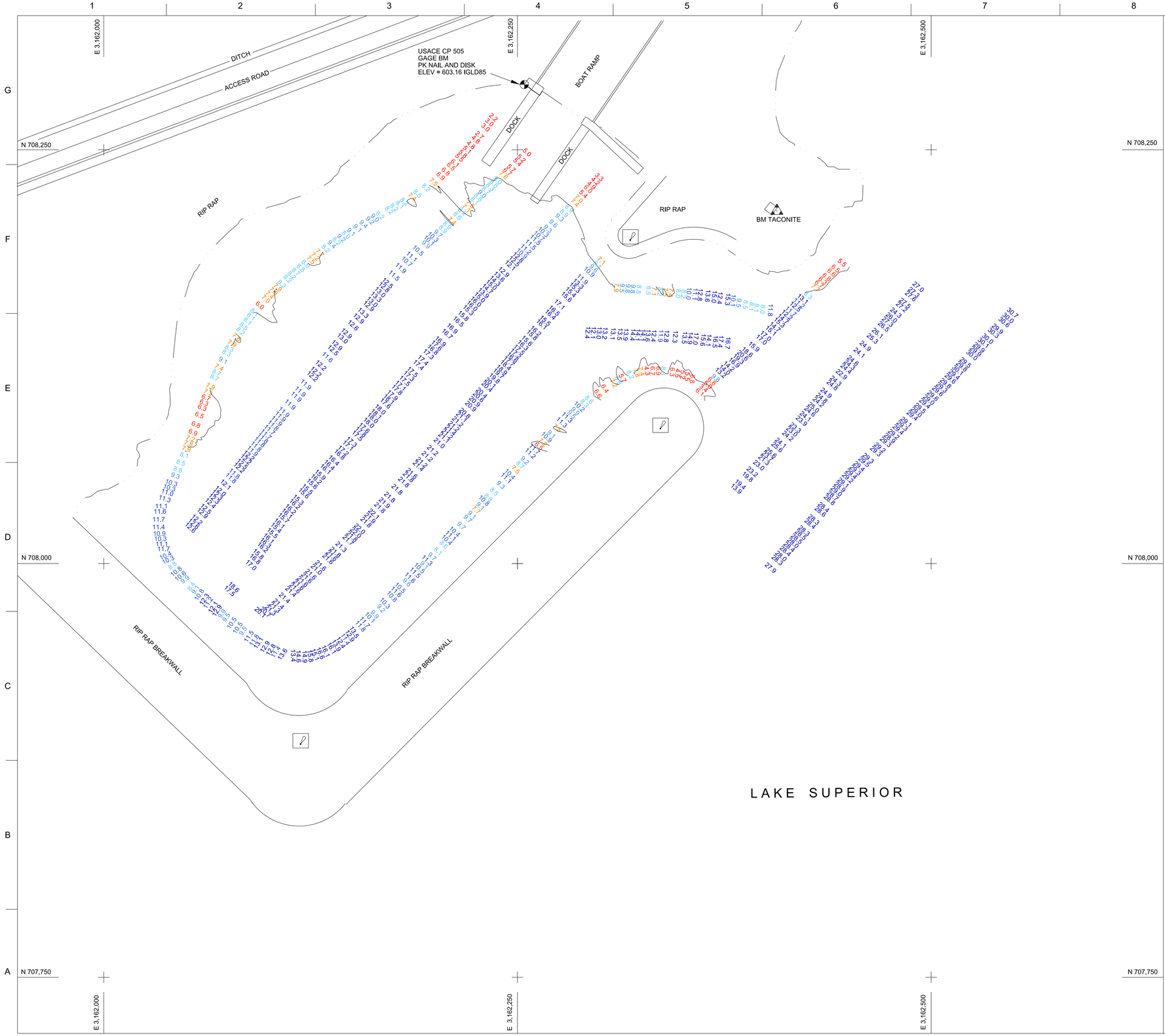

NOTES

1) THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON NOVEMBER 8, 2019 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THAT TIME.

2) SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM ELEVATION 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH RTK GPS VALUES THAT HAVE BEEN VERIFIED TO MATCH NATIONAL GEODETIC SURVEY CONTROL POINT ZOAR TEMP, PID AH3165. DEPTHS ARE MEASURED USING A ROSS LABORATORIES MODEL 825C PORTABLE SURVEY SOUNDER.

3) THE CONTOUR DEPTH FOR THIS AREA IS 8'.

4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2201), NORTH AMERICAN DATUM 1983 (NAD 83), U.S. SURVEY FOOT.

5) HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) CORRECTIONS FROM A BASE STATION LOCATED AT US ARMY CORPS OF ENGINEERS CONTROL POINT 506. THE GPS RECEIVER IS A TRIMBLE SPS751.

LEGEND

- LIGHTED BEACON
- WATER ELEVATION GAUGE
- GPS CONTROL POINT
- SHORELINE
- PROJECT DEPTH CONTOUR

8' LEGEND

- 0.0'
- 7.0'
- 8.0'
- 9.0'
- 10.0'
- 30.0'

N

0 30' 60'

US Army Corps of Engineers Detroit District

LOCATION MAP

NO SCALE

US Army Corps of Engineers®

SURVEYED BY: KRC / ATA	ISSUE DATE: 15-Jan-20		
DRAWN BY: KRC	DATE OF SURVEY: 08-Nov-19		
REVIEWED BY: S. BROSSART	CONTRACT NO.:		
APPROVED BY:	DRAWING NUMBER:		
SIZE: ANSI D	FILE NAME: TACVH01C191.dgn		

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
477 MICHIGAN AVE
DETROIT, MI 48226

DULUTH AREA OFFICE
600 LAKE AVENUE SOUTH
DULUTH, MINNESOTA 55802

MARK	DESCRIPTION	DATE

TACONITE HARBOR OF REFUGE
MINNESOTA

CONDITION OF CHANNEL
NOVEMBER 2019

SHEET ID

TAC 01