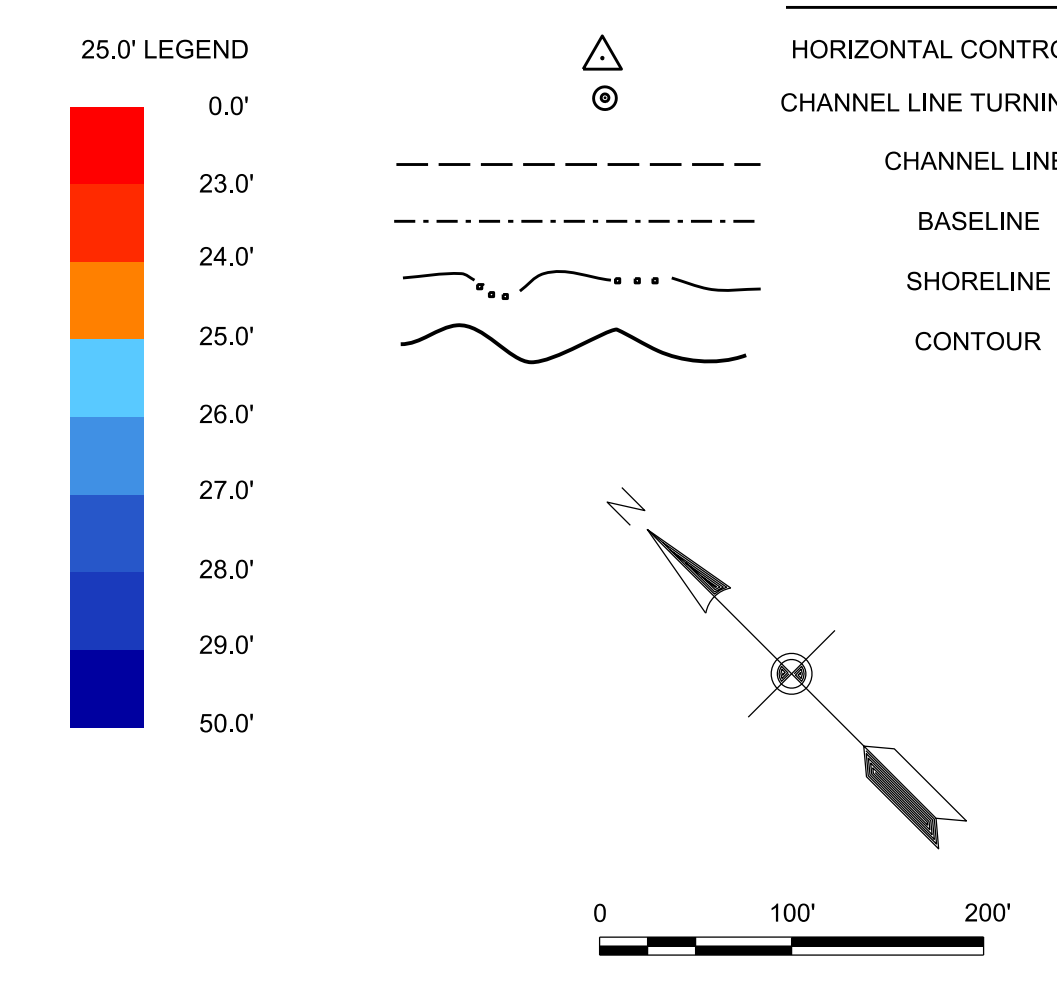


- NOTES
1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON JUNE 05, 2018 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.
 2. SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM (LWD) ELEVATION IS 501.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH RTK GPS VALUES. DEPTHS ARE MEASURED USING A ROSS 825B SINGLE BEAM DEPTH SOUNDER.
 3. 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 (USACE) CONTROL POINT 153. A PK NAIL SET IN THE CONCRETE AT THE NORTH EAST SIDE OF A DOCK WALL AT KEWEENAW PARK ON NORTH ENTRY ROAD, NORTHERLY OF THE NORTHERN MOST BOLLARD. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POSMV VER. 4.0.
 4. 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.
 5. THE PROJECT DEPTH FOR THIS AREA IS 25'.



COORDINATE TABLE

STATION	DESCRIPTION	NORTHING	EASTING
COW	ALUM. CAP	814782.225	25883215.789
SOUP	ALUM. CAP	816114.681	25882486.683
RED LT #19	NAVIC. AD	816888.231	25882442.828
GRN LT #19	NAVIC. AD	815013.588	25882251.129
PT 77	E CHANNEL LINE	819188.9	25879736.8
PT 79	E CHANNEL LINE	881487.8	25888192.2
PT 7	CENTERLINE	82861.7	25871278.9
PT 8	CENTERLINE	869438.6	25878749.9
PT 72	W CHANNEL LINE	819857.8	25878932.8
PT 74	W CHANNEL LINE	881922.7	25887564.4

US Army Corps of Engineers

PROJECT: Keweenaw Waterway
 DISTRICT: Detroit, MI
 CONTRACT NO.:
 DATE: 06/05/2018
 SHEET: 19 OF 24

SHEET IDENTIFICATION
 KWW 19