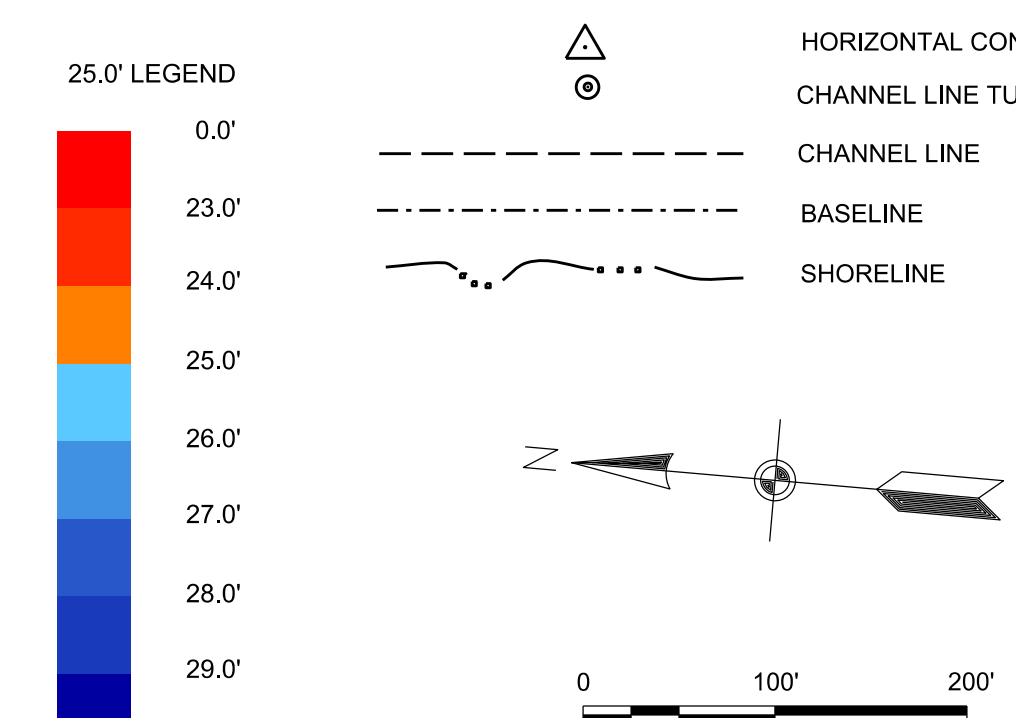


- NOTES
1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON JUNE 05, 2018 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.
 2. SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM (LWD) ELEVATION IS 601.1 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 SOUNDING.
 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 POSNAV 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
MON. A	BRASS DISC	887489.743	2688814.786
MON. B	BRASS DISC	886878.771	2688816.539
MON. C	BRASS DISC	887433.221	2688810.242
GRN. L. #13	NAVIC. AD	888639.008	2688838.777
GRN. L. #11	NAVIC. AD	887918.121	26888312.532
RED. L. #12	NAVIC. AD	887651.529	2688821.887

STATION	DESCRIPTION	NORTHING	EASTING
PT. 79	C. CHANNEL LNE	889467.8	2688862.2
PT. 81	C. CHANNEL LNE	887651.2	2688822.4
PT. 83	C. CHANNEL LNE	887328.5	2688826.7
PT. 85	C. CHANNEL LNE	889368.2	2688808.1
PT. 87	C. CHANNEL LNE	884191.2	2688804.2
PT. 1	C. CHANNEL LNE	889438.5	2688851.2
PT. U	C. CHANNEL LNE	887786.3	2688845.1
PT. V	C. CHANNEL LNE	88458.2	2688804.2
PT. 76	W. CHANNEL LNE	888638.4	2688824.9
PT. 78	W. CHANNEL LNE	887328.5	2688826.7
PT. 80	W. CHANNEL LNE	887438.6	2688815.7
PT. 82	W. CHANNEL LNE	885325.4	2688820.3
PT. 84	W. CHANNEL LNE	888638.4	2688824.9
PT. 86	W. CHANNEL LNE	882017.2	2688873.8

US Army Corps of Engineers

PROJECT: Keweenaw Waterway, Michigan

DATE: JUNE 2018

SHEET IDENTIFICATION: KWW 22

CONDITION OF CHANNEL: JUNE 2018

APPROVED BY: [Signature]

DATE: [Date]