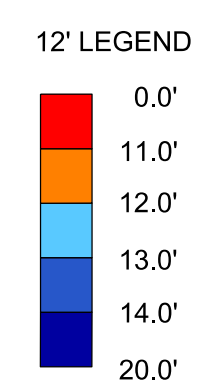
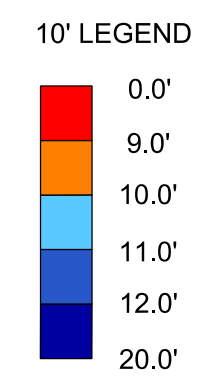
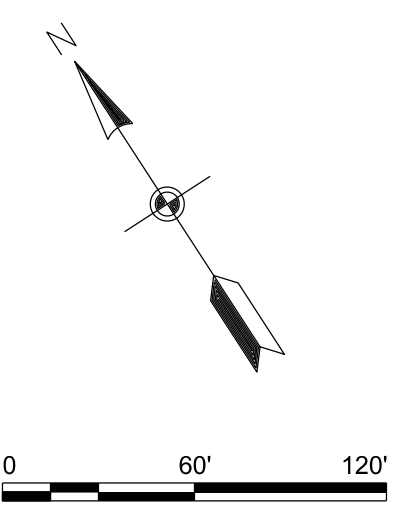


- NOTES
- 1) THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS CONDUCTED ON AUGUST 15 AND SEPTEMBER 17, 2019 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THAT TIME.
 - 2) SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM ELEVATION 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH RTK GPS. DEPTHS ARE MEASURED USING A ROSS LABORATORIES MODEL 825C PORTABLE SURVEY 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 1800.
 - 4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD 83), US SURVEY FOOT.
 - 5) PROJECT DEPTHS FOR THIS AREA ARE 10' & 12'.
 - 6) THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING CHARTS AND ARE OUTDATED AND INACCURATE.



- LEGEND
- GPS CONTROL POINT
 - CHANNEL LINE TURNING POINT
 - CHANNEL LINE
 - SHORELINE
 - PROJECT DEPTH CONTOUR

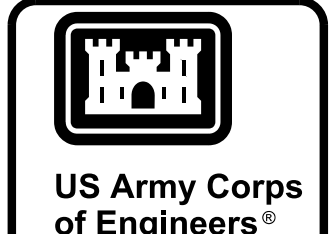


SURVEY CONTROL

STA.	DESCRIPTION	COORDINATES	
		NORTHING	EASTING
TB-103	BRASS DISC	879427.27	25939668.32
G. TRAVERSE	ALUMINUM DISC	879428	25939669
CP 1800	REBAR	880046.23	25939715.75
TB14	R/R SPIKE	879153	25939423
NAV. AID	RED LIGHT 2	879250	25939669
NAV. AID	GREEN LIGHT 3	879558	25939471

CHANNEL CONTROL

STA.	COORDINATES		STA.	COORDINATES	
	NORTHING	EASTING		NORTHING	EASTING
PT1	879178.7	25939473.7	PT13	880140.2	25939831.1
PT2	879228.7	25939610.9	PT15	880199.9	25939097.4
PT3	879408.3	25939519.6	PT17	880516.4	25939246.8
PT4	879397.2	25939635.4			
PT5	879559.5	25939496.5			
PT6	879610.4	25939563.1			
PT7	879631.1	25939439.4			
PT8	879896.3	25939122.8			
PT9	879854.4	25939095.6			
PT10	879975.1	25939046.7			
PT11	880003.2	25938866.5			
PT12	880495.1	25939292.0			



MARK	DESCRIPTION	DATE

DATE OF SURVEY: 15-SEP-19	DATE OF SURVEY: 17-SEP-19	CONTRACT NO.:	DRAWING DATE: 22-JUN-20	FILE NAME: GTV1H01C192.dgn
SURVEYOR: DMV BY: RAC	REVIEWED BY: RAC	APPROVED BY: RAC	PLOT SCALE: 1" = 60'	IMAGE SOURCE: ANSID
U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT DETROIT, MI		DULUTH AREA OFFICE 600 LAKE AVENUE SOUTH DULUTH, MN 55802		

GRAND TRAVERSE BAY HARBOR
MICHIGAN

CONDITION OF CHANNEL
AUG-SEP 2019

SHEET ID
GTV 1
SHEET 1 OF 1