

- NOTES:
- 1) THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULT OF SURVEYS MADE ON THE DATE AS INDICATED AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.
 - 2) THE SOUNDINGS DEPICTED HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND TENTHS THEREOF AND ARE REFERENCED TO THE FOLLOWING DATUMS:
 HORIZONTAL: MICHIGAN STATE PLANE COORDINATE SYSTEM, MICHIGAN SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983.
 VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.
 - 3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL SKIFF EMPLOYING THE FOLLOWING COMPONENTS:
 POSITIONING: TRIMBLE BLUE DGPS WITH CORRECTIONS FROM BEACON FREQ 319
 MOTION COMPENSATION: N/A
 SONAR: 100M CV-300 (SINGLEBEAM)
 SOFTWARE: HYPACK 2013
 - 4) TIDE CORRECTION VALUES REFERENCED FROM A PAINT MARK ON SEAWALL DESCRIBED AS "TBM LINE," LOCATED ON TOP OF STEEL WALL SOUTH EAST OF LAUNCH (SHEET 2), ELEVATION IGLD 85 = 582.27.
 MOUTH OF BLACK RIVER L.W.D. = 576.20



CONTROL POINTS (G.P.S.)

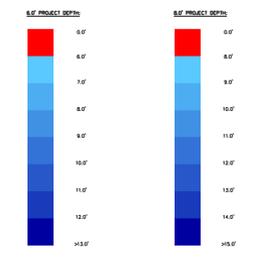
STATION	EAST	NORTH
50 ECC	13636750.1640	550955.6180

CENTERLINE TURNING POINTS

STATION	EAST	NORTH
20	13.637.997.32	549.509.93
21	13.637.733.68	549.950.69
22	13.637.385.11	550.385.75
23	13.637.106.35	550.600.41
24	13.636.352.31	550.975.11

CONTROL POINTS (CORPSON)

STATION	EAST	NORTH
CDE 22	13.637.274.38	551.171.08
DITCH	13.637.429.89	550.047.44
50	13.636.658.41	551.022.97



6.0 FT. PROJECT DEPTH CONTOUR
 8.0 FT. PROJECT DEPTH CONTOUR

 UNITED STATES ARMY CORPS OF ENGINEERS DETROIT AREA OFFICE, DETROIT, MICHIGAN	CONDITION SURVEY BLACK RIVER, MI CS 107+00 TO CS 140+00
	SURVEYED BY: B.R. CHECKED BY: C.V.L.
SCALE 1" = 100' 	
SHEET 4 OF 7	