



**WATER LEVEL / GAGE INFORMATION**

Water level elevations (gage) obtained during the survey were from the NOAA gage #5080 located in Mackinaw City.

**SURVEY CONTROL POINTS**

STATION	COORDINATES	
	EAST X	NORTH Y
P3	19,594,991.240	898,250.576
NAVAID 1	19,594,735.752	898,730.128
NAVAID 2	19,594,521.930	898,624.331

**CHANNEL LINE POINTS**

STATION	COORDINATES	
	EAST X	NORTH Y
A	19,594,736.93	898,781.69
B	19,594,683.72	898,730.33
C	19,594,677.04	898,350.39
D	19,594,517.07	898,353.20
E	19,594,520.76	898,563.68
F	19,594,581.80	898,622.63
G	19,594,540.30	898,818.27

**LEGEND**  
 The information depicted on this map represents the results of the survey made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

**LOW WATER DATUM**  
 All depths and project depths are referred to Low Water Datum elevation 577.5 Ft. above Mean Water Level, (I.G.L.D. 1985).

**GRID COORDINATES**  
 Grids shown are based on the National Geospatial Survey Projection Tables, State of Michigan, Central Zone (2112), Lambert's Projection, 1983 North American Datum, US SURVEY FOOT.

**Navigation Buoys**  
 Location of navigation buoys represents that general location on the date of the survey and cannot be considered for navigation.

**Project Information**  
 Project Depth - 10.0 FT.  
 10.0 Ft. contour shown thus

**Survey Information**  
 Survey by: R. DELESTOWICZ  
 Date of Survey: 11 JUNE, 2008  
 Position system: Starlink 2120 DGPS via Coast Guard System  
 Spline sounder: Tomarac 448  
 Transducer: 208 KHZ with 8.0 degree beam angle

NO.	DATE	REVISION	BY
<b>U.S. ARMY ENGINEER DISTRICT, DETROIT</b> CORPS OF ENGINEERS DETROIT, MICHIGAN			
DESIGNED BY:	<b>MACKINAW CITY HARBOR, MI</b>		
DRAWN BY:	<b>CONDITION JUNE, 2008</b>		
CHECKED BY:	<b>SAGINAW FIELD OFFICE</b>		
REVIEWED BY:	DATE		
SUBMITTED BY:	APPROVAL RECOMMENDED:	DATE	
CHIEF, PROJ. OPNS. SEC.	CHIEF, OPER. & MAINT. BR.		
APPROVED:	<b>SCALE: 1 INCH = 50 FT.</b>		
CHIEF, CONST. OPNS. DIV.	P.E.	DRAWING NUMBER	
		SHEET 1 OF 1	MKD108C.DGN

