



SURVEY CONTROL POINTS

STATION	COORDINATES	
	EAST X	NORTH Y
E. TAWAS 5	19,914,597.877	351,786.518
P3	19,913,921.855	351,687.833
P4	19,916,295.253	352,288.515
TAW1	19,915,601.796	351,142.306
TAW2	19,914,827.158	350,710.745
TAW3	19,916,343.163	352,302.999
NAVAID 1	19,915,641.291	351,267.441

CHANNEL LINE POINTS

STATION	COORDINATES	
	EAST X	NORTH Y
A	19,915,490.8	350,693.6
B	19,915,669.8	351,264.1
C	19,915,602.6	351,284.5
D	19,915,521.7	351,048.8
E	19,915,111.1	351,460.3
F	19,915,824.1	351,458.5
G	19,916,323.0	350,671.8

TAWAS BAY

LEGEND

The information depicted on this map represents the results of the surveys 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.C.L.D. 1985.

GRID COORDINATES
Grids shown are based on the National Geodetic Survey Projection Tables, State of Michigan, Central Zone (2121), Lambert 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 - AS NOTED
10.0 Ft. contour shown thus
12.0 Ft. contour shown thus

Survey Information
Survey by: R. DELESTOWICZ
Date of survey: 10 JULY 2007
Position system: Starlink DGPS via Coast Guard System
Sonic sounder: Innerspace 448
Transducer: 208 kHz with 3.0 degree beam angle

NO.	DATE	REVISION	BY
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
DESIGNED BY:	TAWAS BAY HARBOR, MICHIGAN		
DRAWN BY:	CONDITION JULY 2007		
CHECKED BY:	SAGINAW FIELD OFFICE		
REVIEWED BY:			
SUBMITTED BY:	P.E.	APPROVAL RECOMMENDED:	P.E. DATE
CHIEF, PROJ. OPNS. SEC.		CHIEF, OPERATIONS TECHNICAL SUPPORT BRANCH	
APPROVED:	SCALE: 1 INCH = 100 FT.		DRAWING NUMBER
CHIEF, CONSTRUCTION OPERATIONS DIVISION			SHEET 1 of 1

N 351500

N 350500

E 1917500

E 1918500

E 1918500