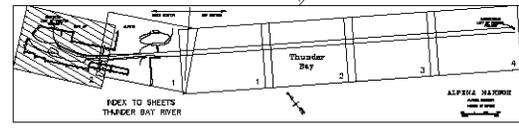


GRID SCALE FACTOR: 0.999915  
 GRID DIST. DIVIDED BY GRID SCALE FACTOR = GROUND DIST.



T.B.T.P. NUMBER	EAST	NORTH
1	19,928,227.30	639,729.28
2	19,928,012.30	639,729.28
3	19,928,044.36	639,152.47
4	19,928,016.17	639,335.30
5	19,928,762.47	639,257.72

STATION NUMBER	EAST	NORTH
10	19,928,142.32	640,422.82
11	19,928,024.70	639,729.28
12	19,928,055.39	640,790.35
13	19,928,028.78	639,063.37
14	19,928,028.01	639,063.35
15	19,928,028.01	639,063.35
16	19,928,028.01	639,063.35
17	19,928,028.01	639,063.35
18	19,928,028.01	639,063.35

STATION NUMBER	EAST	NORTH
1	19,928,227.30	639,729.28
2	19,928,025.17	639,063.31
3	19,928,025.31	639,152.35

STATION NUMBER	EAST	NORTH
1	19,924,827.85	640,895.31

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

LOW WATER DATUM  
 All depths and vertical markers are referred to Low Water Datum elevation 871.8 Ft. above Mean Water Level, I.G.L.D. 1985.

GRID COORDINATES  
 Grids shown are based on the National Geodetic Survey Projection Tables, 1983 of Station Central Zone 18N(18) UTM Projection, 1983 North American Datum, US SURVEY FOOT.

Location of navigation buoys represents their general location on the site of the survey and cannot be considered for navigation.

Navigation buoys:  
 Project depth - as noted  
 18.0 FT. CONTROL shown thru  
 12.0 FT. CONTROL shown thru

Survey Information  
 Survey by: R. DELESTONICZ  
 Date of survey: 01, 30 OCTOBER, 2002  
 Facilities system: Station DWS, 1/4 Coast Guard Station  
 Date number: 0001-0001-001  
 Transducer: 200 kHz with 3.0 degree beam angle

NO.	DATE	REVISION	BY
<b>U.S. ARMY ENGINEER DISTRICT, DETROIT</b> ENGINEER OF BARRIERS			
ALPENA HARBOR, MI RIVER SECTION			
DRAWN BY: R. DELESTONICZ		PROJECT INFORMATION	
CHECKED BY:		CONDITION: OCTOBER, 2002	
REVISIONS:		SAGINAW FIELD OFFICE	
APPROVAL/RECOMMENDATION:		DATE:	
SUPERVISOR: JOHN SHEPHERD		SCALE: 1" = 100'	
ENGINEER: R. DELESTONICZ		DRAWING NUMBER: SHEET 2 OF 2	

DATE OF PHOTOGRAPH: 16 APRIL 1991