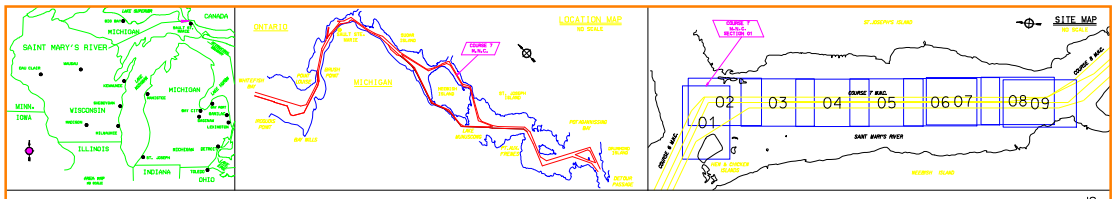

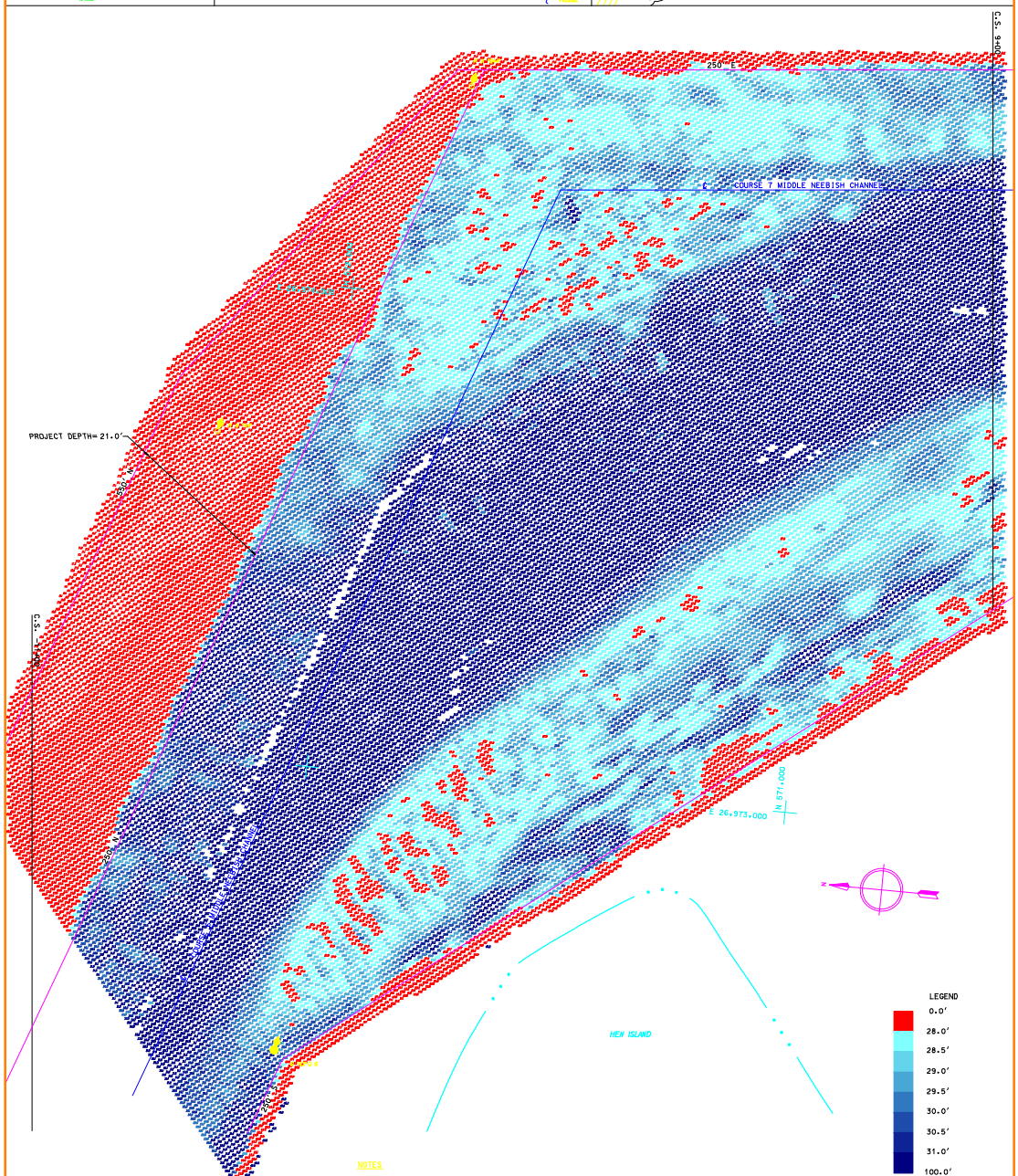

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1955 (IGLD 55). LOW WATER DATUM ZERO IS 577.0 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT THE U.S.A.C.E. CELL DOCK. DEPTHS ARE MEASURED USING A RESON SEABAT 8125 MULTIBEAM SONAR.

3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

4. THE LOCATION OF NAVIGATION AIDS REPRESENT THEIR GENERAL LOCATION AND CANNOT BE CONSIDERED FOR NAVIGATION.

4. HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC GPS. RTK CORRECTIONS ARE BEING PROVIDED BY A BASE STATION LOCATED AT SOUTHWEST PIER. THE GPS RECEIVER IS MANUFACTURED BY ASHTECH, INC. MODEL Z-12. THIS IS A DUAL FREQUENCY RECEIVER (L1 + L2 CODE) WITH ADVERTISED POSITIONAL ACCURACY OF 1-6 CENTIMETERS RMS.

5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET. CROSS SECTIONS AND RANGES ARE REFERRED TO COURSE 1 BAYFIELD CHANNEL.

6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 28.0' BELOW LOW WATER DATUM.

Sheet 1 of 1
C7M-01
Sheet 01 of 09

SOO AREA OFFICE
SAINT MARY'S RIVER
FEDERAL NAVIGATION CHANNEL

CRSE 7 MIDDLE NEEBISH CHANNEL
SURVEY SECTION 01
C.S. -11+00 TO C.S. 9+00
MINIMUM DEPTH PLOT

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS DETROIT, MICHIGAN	Surveyed by: J. WRZESK	Date: NOV. 04, 2003	Rev.
	Dwn by: K.R.S.	Chd by: K.W.S.	GeoTan File name: C7M\101C031.dgn
	Approval Recommended:	Reviewed by:	Drafting date:
	Engr Chief, Geo Office	Chief, Fac. Mgmt.	
	Approved by:	Submitted by:	File name: Plot date: 1-20-04 Plot scale: 1" = 100'
	Director Engineer	Chief, Hdq Engineer	

Surface	Geoscan Tot Pen	Date	Appr. Surface	Geoscan Tot Pen	Date	Appr.

US Army Corps of Engineers
Detroit District