## 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 577.2 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT U.S.C.G. LOOKOUT #4. DEPTHS ARE MEASURED USING A RESON 8125 MULTIBEAM SONAR.

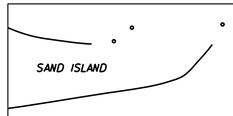
3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON SEPTEMBER 10, 2008 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

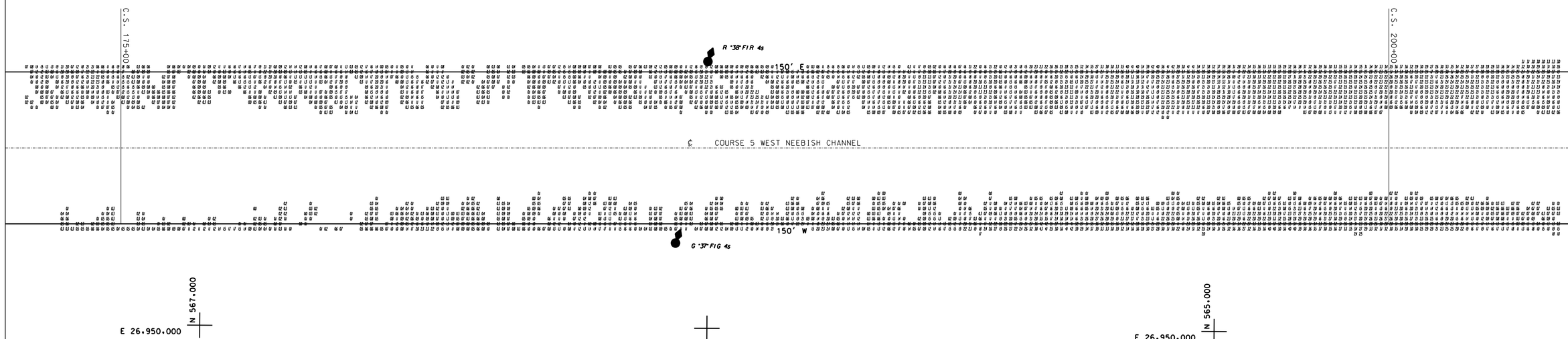
4. THE LOCATION OF NAVIGATION AIDS REPRESENT THEIR GENERAL LOCATION AND CANNOT BE CONSIDERED FOR NAVIGATION.

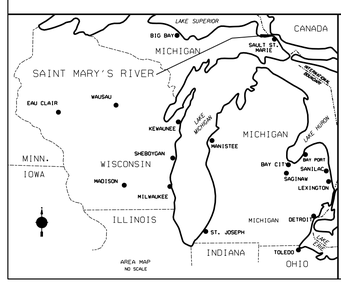
5. HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY U.S. COAST GUARD DIFFERENTIAL BROADCAST STATIONS LOCATED AT PICKFORD, AND CHEBOYGAN MI. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION. THE DGPS RECEIVER IS MANUFACTURED BY STARLINK, INC. MODEL DNAV 212, SERIAL NO. 292. THIS IS A SINGLE FREQUENCY RECEIVER (C/A, L1 CODE) WITH ADVERTISED POSITIONAL ACCURACY OF 1-3 METERS RMS.

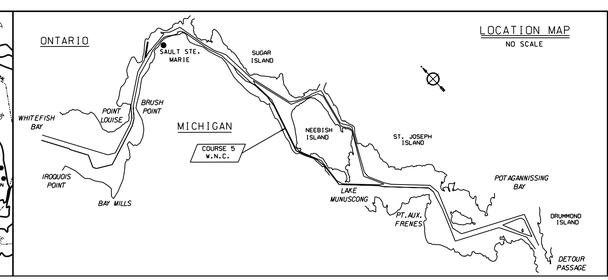
6. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET. CROSS SECTIONS AND RANGES ARE REFERRED TO COURSE 5 WEST NEEBISH CHANNEL.

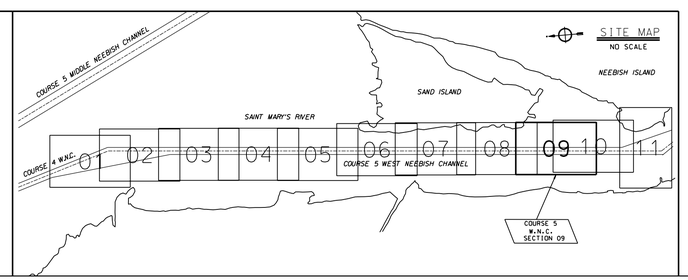
7. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 27.5' BELOW LOW WATER DATUM. UNLESS OTHERWISE NOTED MAINTENANCE DEPTH IS 28.5' BELOW LOW WATER DATUM. SHOALING SHOWN REPRESENTS THE 28.5' MAINTENANCE DEPTH.




FLOW

100' 50' 0 100' 200'

SCALE: 1"=100'

US Army Corps of Engineers
Detroit District

| Symbol | Description | Date | Appr. | Symbol | Description | Date | Appr. |
|---|---|---|---|---|---|---|---|

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
DETROIT, MICHIGAN

Surveyed by: J. Wrozek
Survey Date: Sept. 10, 2008
Dwn by: J. Wu
Ckd by:
Design File name: Coursedesign
Drawing code:
Reviewed by:
Submitted by:
Approval Recommended:
Chief, Operations
Approved by:
Area Eng. Soo Office
District Engineer:
Chief, SAR Section
File name:
Plot date: 10-03-08
Plot scale: 1"=100'

SOO AREA OFFICE
SAINT MARY'S RIVER
FEDERAL NAVIGATION CHANNEL

# COURSE 5 WEST NEEBISH CHANNEL
## SURVEY SECTION 09
## C.S. 175+00 to C.S. 200+00
## 28.5' STRIKE CHART

Sheet reference number:
C5W-09
Sheet 09 of 11