

LEGEND

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 AT THAT TIME.

LOW WATER DATUM

ELEVATIONS AND PROJECT DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985. THE LOW WATER DATUM FOR PORT SANILAC IS 577.5 FT. ABOVE MEAN SEA LEVEL.

GRID COORDINATES

GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE (2113), LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM, U.S. SURVEY FOOT.

- NOTES:**
- 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 AT THAT TIME.
 - ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION 577.5 FEET ABOVE MEAN SEA LEVEL I.G.L.D. 1985.
 - PROJECT DEPTHS FOR THIS AREA ARE 6.0, 10.0, AND 12.0 FEET.
 - THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983 (NAD 83), US FOOT.

DIRECTIONS

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS

PROJECT DEPTHS ARE AS INDICATED ABOVE.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY RICK DELESTOWICZ, PARTY CHIEF, ABOARD THE USA CODE SURVEY SMALL BOAT.

AUTOMATED EQUIPMENT USED

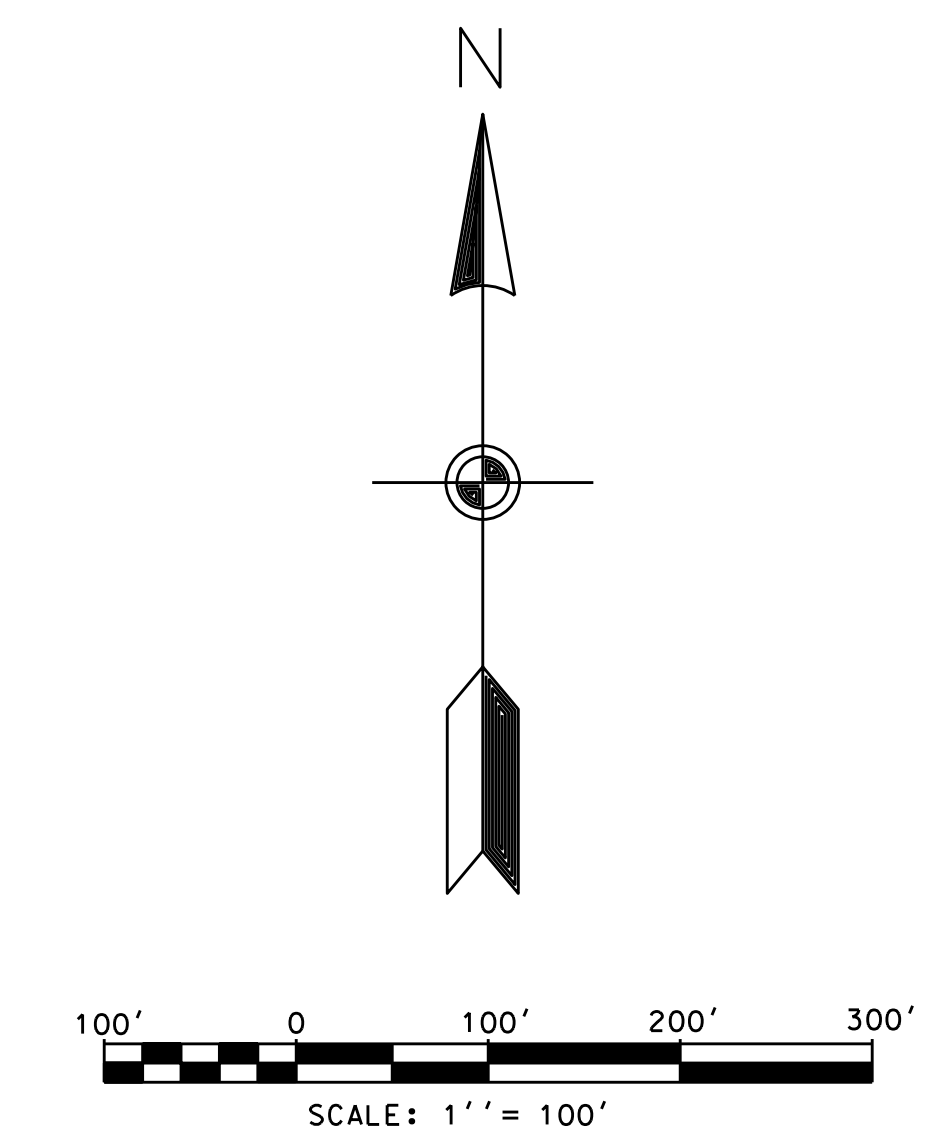
DATA COLLECTION POSITIONING: DELL BALLISTIC TOUGHBOOK
 DATA PROCESSOR: TRIMBLE SPS DGPS VIA COAST GUARD SYSTEM
 SOFTWARE: MICRON PC
 PLOTTER: COASTAL HYPACK MAX
 SONIC SOUNDER: ENCAD, CADJET 2
 ODOM CV-300, 200 KHZ 4 DEGREE TRANSDUCER

CHANNEL CONTROL DATA

STATION NUMBER	DESCRIPTION	COORDINATES	
		NORTH	EAST
1	CHANNEL LINE	708704.134	13609869.238
2	CHANNEL LINE	709089.012	13609857.092
3	CHANNEL LINE	709423.935	13609240.394
4	CHANNEL LINE	709423.115	13609140.356
5	CHANNEL LINE	708405.285	13609153.718
6	CHANNEL LINE	708578.526	13609428.288
7	CHANNEL LINE	708992.735	13609578.893
8	CHANNEL LINE	709080.267	13609644.174
9	CHANNEL LINE	709056.614	13609686.368
10	CHANNEL LINE	708574.929	13609721.302

SURVEY CONTROL DATA

STATION NUMBER	COORDINATES			ELEV.
	NORTH	EAST		
PORT SANILAC	709.671.28	13.609.172.93		584.89
1	709.593.94	13.607.883.22		
2	709.091.58	13.607.889.43		
MON. 4	708.134.42	13.608.428.10		599.36
MON. 6	708.962.943	13.608.507.67		594.56
B INGS 1	709.083.36	13.609.916.91		
N.BRK. LT. (NGS)	708.763.76	13.609.922.80		
S.BRK. LT. (NGS)	709.031.99	13.609.645.79		
TANK (NGS)	709.350.28	13.609.074.38		
CATH. CH. (NGS)	707.911.16	13.591.993.58		
CONG. CH. (NGS)	708.609.25	13.606.611.60		
LIGHTHOUSE (NGS)	708.270.86	13.608.498.99		
METH. CH. (NGS)	708.966.93	13.607.358.80		
MON. 8	709.083.62	13.609.919.04		585.88
BM R/W				587.589
BM WELL				589.258



NO.	DATE	REVISION	BY
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
DESIGNED BY:*		PORT SANILAC HARBOR, MI	
DRAWN BY:*			
CHECKED BY:*		CONDITION SOUNDINGS 3 SEPTEMBER 2010	
REVIEWED BY:*		AFTER CONTRACT DREDGING SAGINAW FIELD OFFICE	
SUBMITTED BY:*		APPROVAL RECOMMENDED:*	
CHIEF OF BRANCH		CHIEF C.O. DIVISION	
APPROVED:*		SCALE AS SHOWN	
LTC. C.E. DISTRICT ENGINEER		CADD FILE NAME: PSM01A94.DGN	
		DRAWING NUMBER: pts0110A.dgn	
		SHEET 1 OF 1	

- NOTES:**
- GAGES USED WERE REFERENCED FROM GAGE BOARD SET ON PILING ON PILING IN THE MARINA @ THE FOOT OF MAIN STREET.
 - POSITIONS WERE DETERMINED BY OPS REFERENCE BEACON 838, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 BPS
 - TRANSDUCER FREQUENCY USED TO MEASURE DEPTH DATA WAS 208 KHZ AND THE BEAM ANGLE WAS 3.0 DEGREES.