



**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 THE TIME.

**LOW WATER DATUM**  
 ELEVATIONS AND PROJECT DEPTHS ARE AS SHOWN ON THE SHEET. THEY ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM, (1985) AND ARE ELEVATIONS ABOVE MEAN WATER LEVEL AT RONSSELY, QUEBEC.

**GRID COORDINATES**  
 GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE (1111), LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM.

**DIRECTIONS**

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS ARE AS SHOWN ON DRAWING.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY FREDRICK J. W. DOUGLAS, PARTY CHIEF, ABOARD THE USACE SURVEY VESSEL WHEELER.

**AUTOMATED EQUIPMENT USED**

POSITIONING: TRS POS-NV  
 DATA PROCESSOR: DELL 300 PC  
 SOFTWARE: HYPAK  
 PLOTTER: CADJET 2  
 SONIC SOUNDERS: RESON SEABAT 8128

**NOTES**

- GAGES USED WERE OBTAINED FROM NOAA ELECTRONIC GAGE HOUSE IN WYANDOTTE, MICHIGAN. CANADIAN GAGE WAS OBTAINED BY AMERSTURB PHINE RECORDING.
- POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON #36, LOCATED AT FORT WAYNE, DETROIT, MICHIGAN - FREQUENCY 318 MHz, 200 BPS
- DEPTH MEASURED USING SEABAT #125 ULTRA HIGH RESOLUTION FOCUSED MULTIBEAM ECHOSOUNDER SYSTEM



NO.	DATE	REVISION	BY
<b>U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN</b>			
DESIGNED BY:	DETROIT AREA OFFICE		14 JULY 2003
DRAWN BY:	<b>DETROIT RIVER, MICHIGAN ECORSE REACH CHANNEL</b>		
CHECKED BY:	CS 870+30 TO CS 905+50 MULTI-BEAM SWEEP SURVEY RESULTS MINIMUM STRIKE PLOT		
REVIEWED BY:			
SUBMITTED BY:	APPROVAL RECOMMENDED:		P.E. DATE
CHIEF, PROJ. OPS SEC	CHIEF, OPERATIONS TECHNICAL SUPPORT BRANCH		
PROJECT:		SCALE AS SHOWN	DRAWING NUMBER
CHIEF, CONSTRUCTION - OPERATIONS DIVISION		SHEET 1 OF 2	07150703-03n