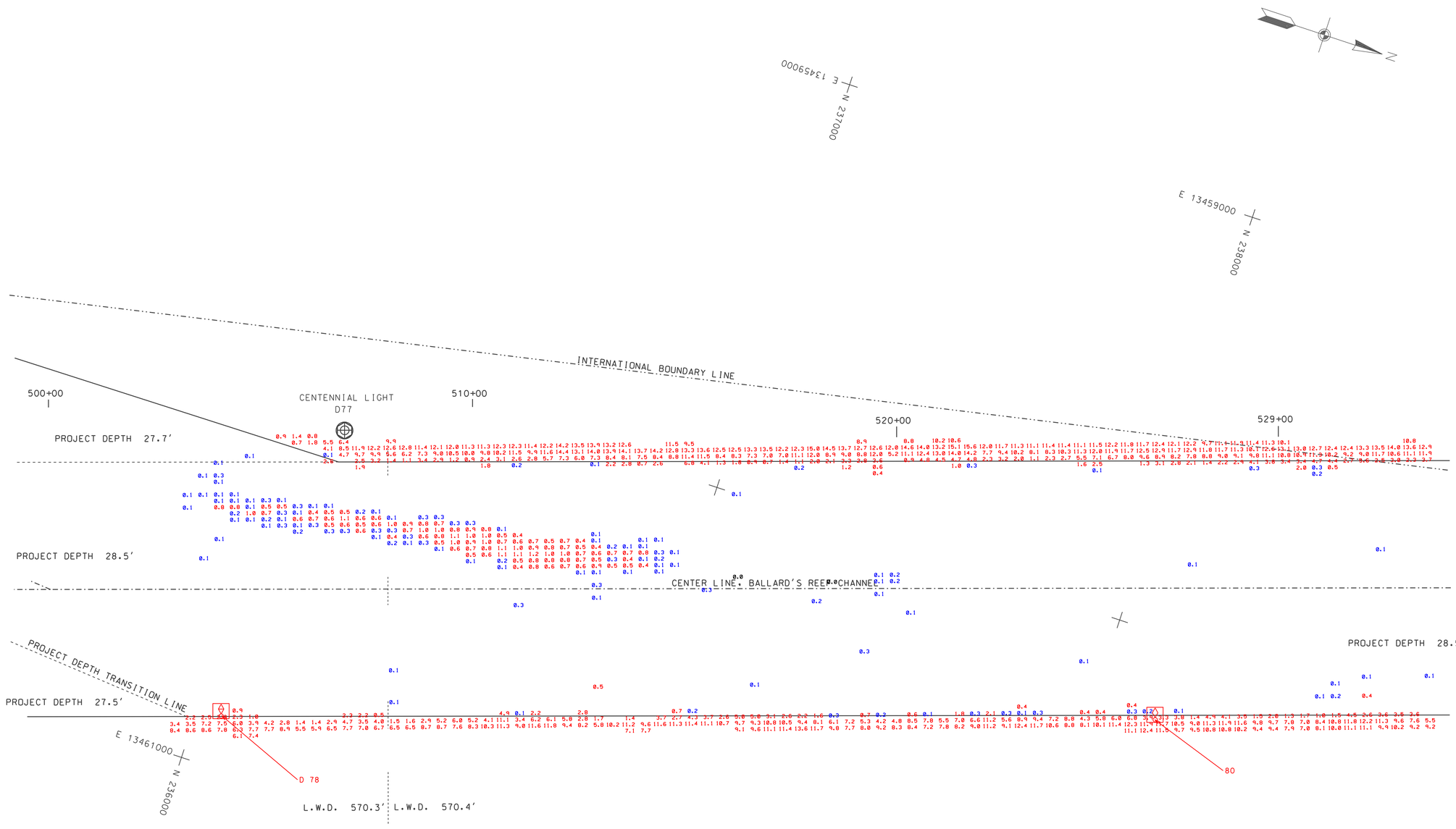

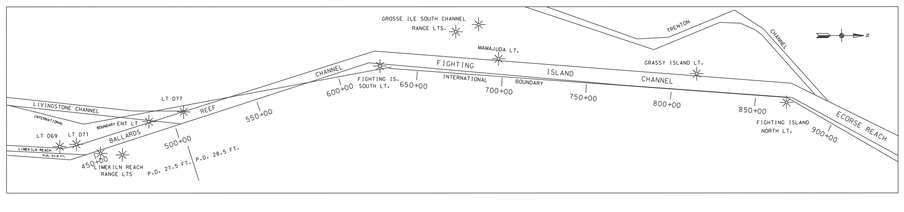

LEGEND

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 REFERRED TO INTERNATIONAL GREAT LAKES DATUM. (1985)

GRID COORDINATES

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

ALL COORDINATES ARE IN U.S. SURVEY FEET.

DIRECTIONS

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS ARE AS SHOWN ON DRAWING. ALL DEPTHS ARE IN U.S. SURVEY FEET.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY ROBERT W. POLAK AND JAMES P. BYRNE, ABOARD THE USACOE SURVEY VESSEL "WHEELER".

AUTOMATED EQUIPMENT USED

POSITIONING:	TSS POS-MV
SOFTWARE:	HYPACK HYSWEEP
SONIC SOUNDER:	RESON SEABAT 8125

NOTES:

1. GAGES USED WERE OBTAINED ELECTRONICALLY FROM THE NOAA GAGE AT WYANDOTTE, MI. (9044030) VIA THE INTERNET.
2. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 BPS
3. DEPTH MEASURED USING SEABAT 8125 ULTRA HIGH RESOLUTION FOCUSED MULTIBEAM ECHOSOUNDER SYSTEM AND ODOM DIGIBAR PRO DB1200 VELOCITY PROFILER.
4. EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 37 FT. BY 15 FT. MATRIX. THE LARGEST STRIKE LOCATED IN EACH CELL WAS THEN SELECTED FOR PLOTTING AT THE CELL CENTER.

100 50 0 100 200FT

SCALE: 1" = 100'

NO.	DATE	REVISION	BY
1.	24 JULY 2008	UPDATED NOTES	RWP
2.	24 JULY 2008	PLACED SOUNDINGS	RWP

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

DETROIT AREA OFFICE — 11 JUNE 2008

DETROIT RIVER, MICHIGAN
BALLARD'S REEF CHANNEL
CS 498+00 TO CS 529+00
MULTI-BEAM SWEEP SURVEY
STRIKE PLOT

DESIGNED BY:
DRAWN BY: RWP
CHECKED BY:
REVIEWED BY:
SUBMITTED BY: P.E. CHIEF, PROJ DPMS SEC
APPROVAL RECOMMENDED: P.E. CHIEF, OPERATIONS TECHNICAL SUPPORT BRANCH — DATE
APPROVED: P.E. CHIEF, CONSTRUCTION - OPERATIONS DIVISION
SCALE AS SHOWN
SHEET 3 OF 6
DRAWING NUMBER br350608.dgn