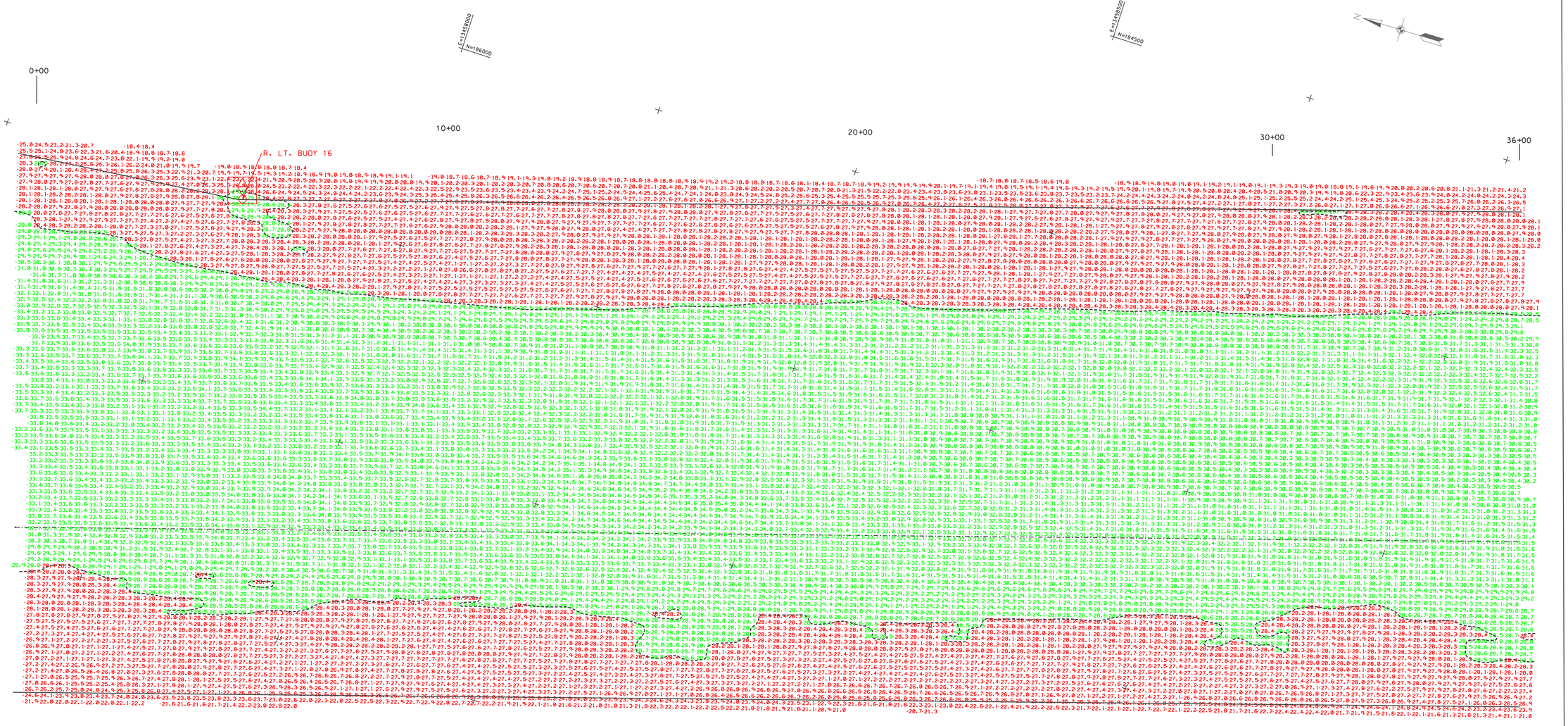
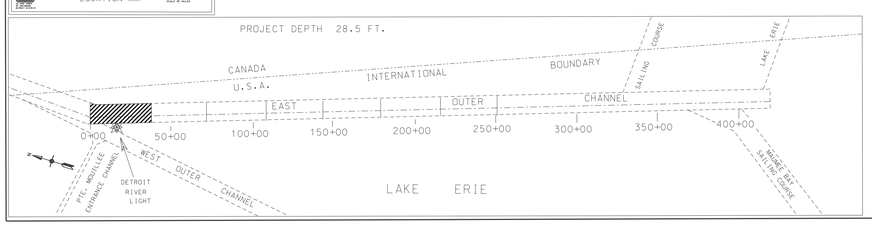



DETROIT RIVER LT.

PROJECT DEPTH 28.5 FT.

LOCATION MAP




## 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 LAKE ERIE IS 569.2 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.

ALL COORDINATES ARE IN U.S. SURVEY FEET.

## DIRECTIONS

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS ARE AS INDICATED ABOVE. ALL DEPTHS ARE IN U.S. SURVEY FEET.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY JOHN C. HAAS III AND JOSEPH D. PERCELL. ABOARD THE USACE SURVEY VESSEL "WHEELER".

### AUTOMATED EQUIPMENT USED

| | |
|---|---|
| POSITIONING: | TSS POS-MV |
| SOFTWARE: | HYPACK HYSWEEP |
| SONIC SOUNDER: | R2 SONIC 2024 |

28.5 ft. PROJECT DEPTH CONTOUR

## NOTES:

1. GAGES USED ARE AN AVERAGE OF DATA OBTAINED ELECTRONICALLY FROM NOAA GAGE AT FERMI POWER PLANT. MICHIGAN (9063090). 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 R2 SONIC 2024 ULTRA HIGH RESOLUTION FOCUSED MULTI-BEAM ECHOSOUNDER SYSTEM AND THE ODOM DIGIBAR PRO DB1200 VELOCITY PROFILER. THE HEAD FREQUENCY WAS SET AT 400 KHz WITH A BEAM SECTOR OF 160 DEGREES.
4. EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 37 FT. BY 15 FT. MATRIX. THE AVERAGE OF SOUNDINGS LOCATED IN EACH MATRIX CELL WAS THEN SELECTED FOR PLOTTING AT THE CELL CENTER.

100' 0' 100' 200'
SCALE

US ARMY CORPS OF ENGINEERS DETROIT DISTRICT

| NO. | DATE | REVISION | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

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

DETROIT AREA OFFICE 01 DEC 2011

# DETROIT RIVER, MICHIGAN
## EAST OUTER CHANNEL
C.S. 0+00 TO C.S. 36+00
MULTIBEAM CONDITION SWEEP SURVEY
AVERAGE DEPTH PLOT

DESIGNED BY: ----------
DRAWN BY: J.D.P.
CHECKED BY: ----------
REVIEWED BY: ----------
SUBMITTED BY: ----------
CHIEF, PROJ.OPNS.SECT
APPROVAL RECOMMENDED: ----------
CHIEF, OPS BRANCH
APPROVED: ----------
CHIEF, CONST - OPNS DIVISION

SCALE AS SHOWN

SHEET 1 OF 8

FILE NAME de01c1211.dgn