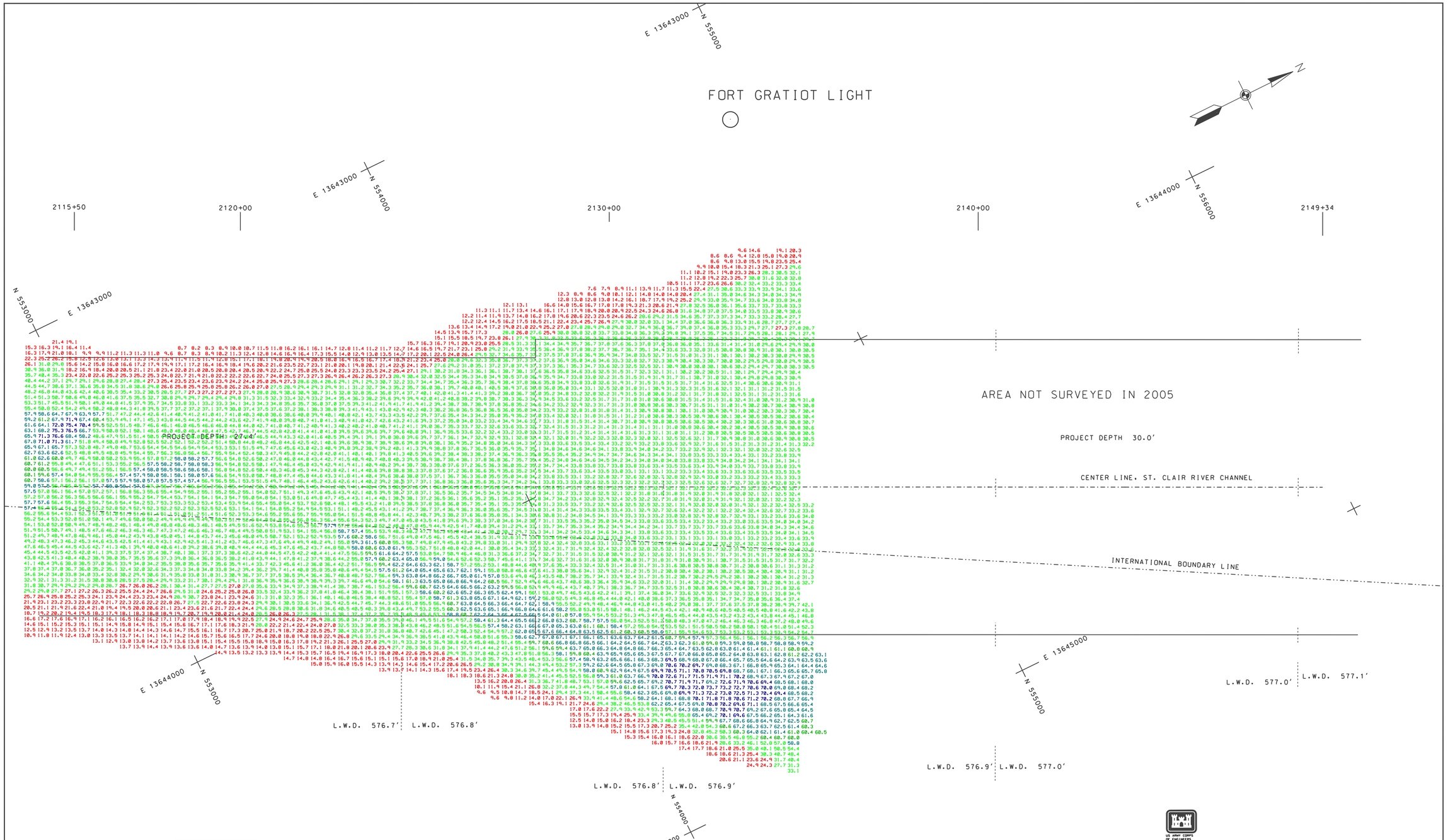

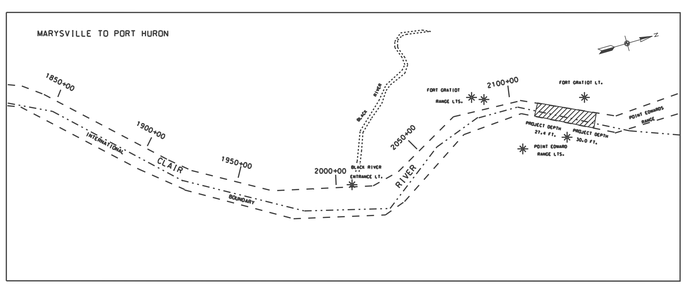


## LEGEND

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)

## GRID COORDINATES

GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES: STATE OF MICHIGAN, SOUTH ZONE (2113), 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 FRED LEECH, PARTY CHIEF. ABOARD THE USACE SURVEY VESSEL WHEELER.

## AUTOMATED EQUIPMENT USED

| | |
|---|---|
| POSITIONING: | TSS POS-MV |
| DATA PROCESSOR: | DELL 330 PC |
| SOFTWARE: | HYPACK |
| PLOTTER: | CADJET 2 |
| SONIC SOUNDER: | RESON SEABAT 8125 |

## NOTES:

1. GAGES USED WERE OBTAINED ELECTRONICALLY FROM NOAA GAGE AT DUNN PAPER, MICHIGAN.
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.

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 — 27 JUNE 2005

# ST. CLAIR RIVER, MICHIGAN
ST. CLAIR RIVER CHANNEL
CS 2115+50 TO CS 2149+34
MULTI-BEAM SWEEP SURVEY RESULTS
MINIMUM DEPTH PLOT

DESIGNED BY:
DRAWN BY: J.B.
CHECKED BY:
REVIEWED BY:
SUBMITTED BY: P.E. CHIEF, PROJ OPNS SEC
APPROVAL RECOMMENDED: P.E. CHIEF, OTS BRANCH
DATE
APPROVED: P.E. CHIEF, CONSTRUCTION - OPERATIONS DIVISION
SCALE AS SHOWN
SHEET 54 OF 54
DRAWING NUMBER sc54s0605.dgn