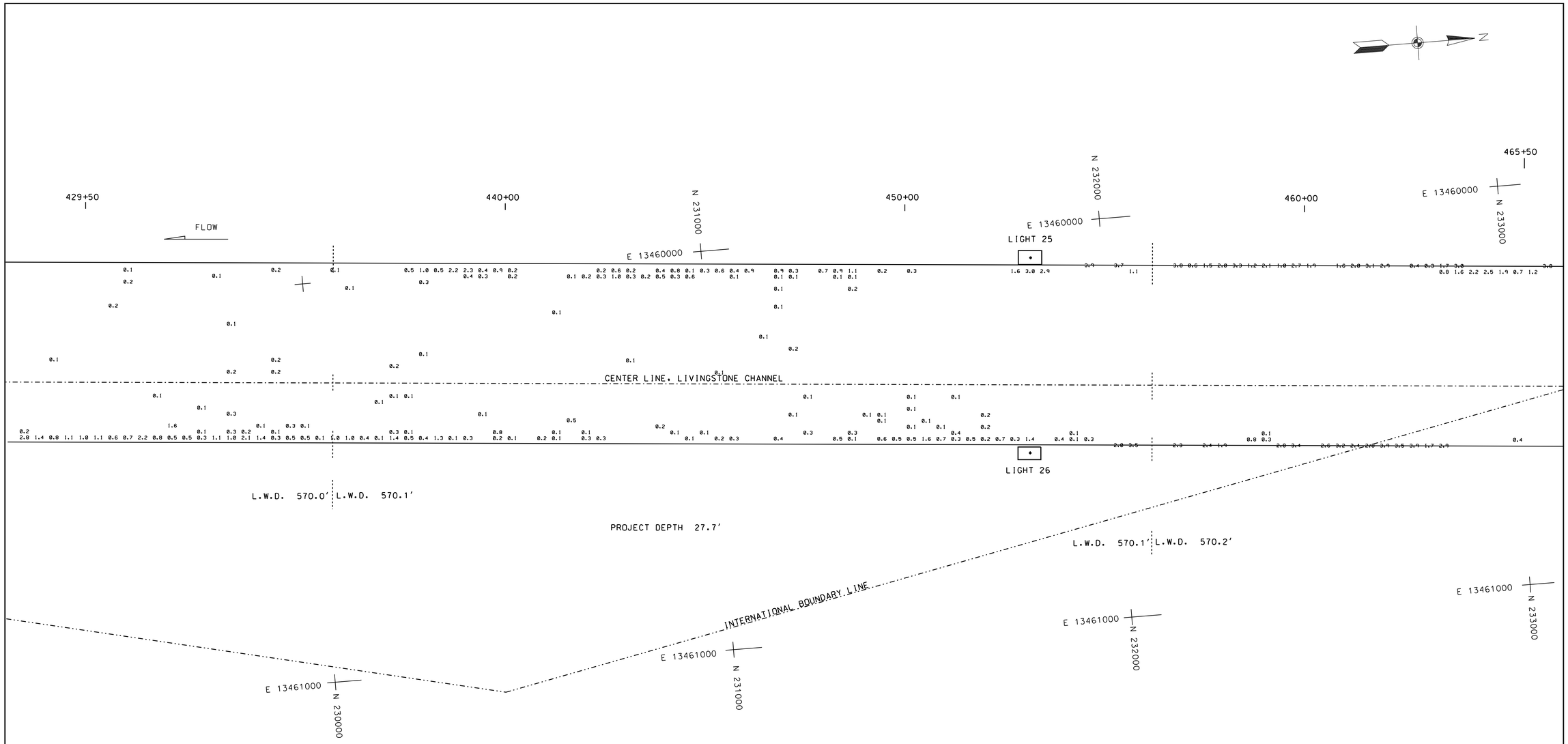
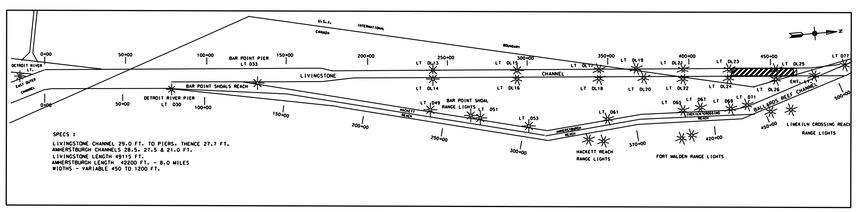


LOCATION MAP




## 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 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.

## 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 USACOE SURVEY VESSEL WHEELER

## AUTOMATED EQUIPMENT USED

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

## NOTES:

1. GAGES USED WERE OBTAINED FROM A TEMPORARY GAGE BOARD SET FROM A TBM ON LIGHT 26
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 MULTI-BEAM ECHOSOUNDER SYSTEM AND THE 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 MATRIX CELL WAS THEN SELECTED FOR PLOTTING AT THE CELL CENTER.

100' 0' 100' 200'
SCALE

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

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

DETROIT AREA OFFICE — 18 APRIL 2007

# DETROIT RIVER. MICHIGAN
## LIVINGSTONE CHANNEL
## CS 429+50 TO CS 465+50
## MULTI-BEAM SWEEP SURVEY
## STRIKE PLOT

DESIGNED BY:
DRAWN BY: J.B.
CHECKED BY:
REVIEWED BY:
SUBMITTED BY: P.E.
CHIEF. PROJ OPNS SEC
APPROVAL RECOMMENDED: P.E. DATE
CHIEF. OPERATIONS TECHNICAL SUPPORT BRANCH
APPROVED: P.E.
CHIEF. CONSTRUCTION - OPERATIONS DIVISION
SCALE AS SHOWN
DRAWING NUMBER
SHEET 13 OF 14
113s0407.dgn