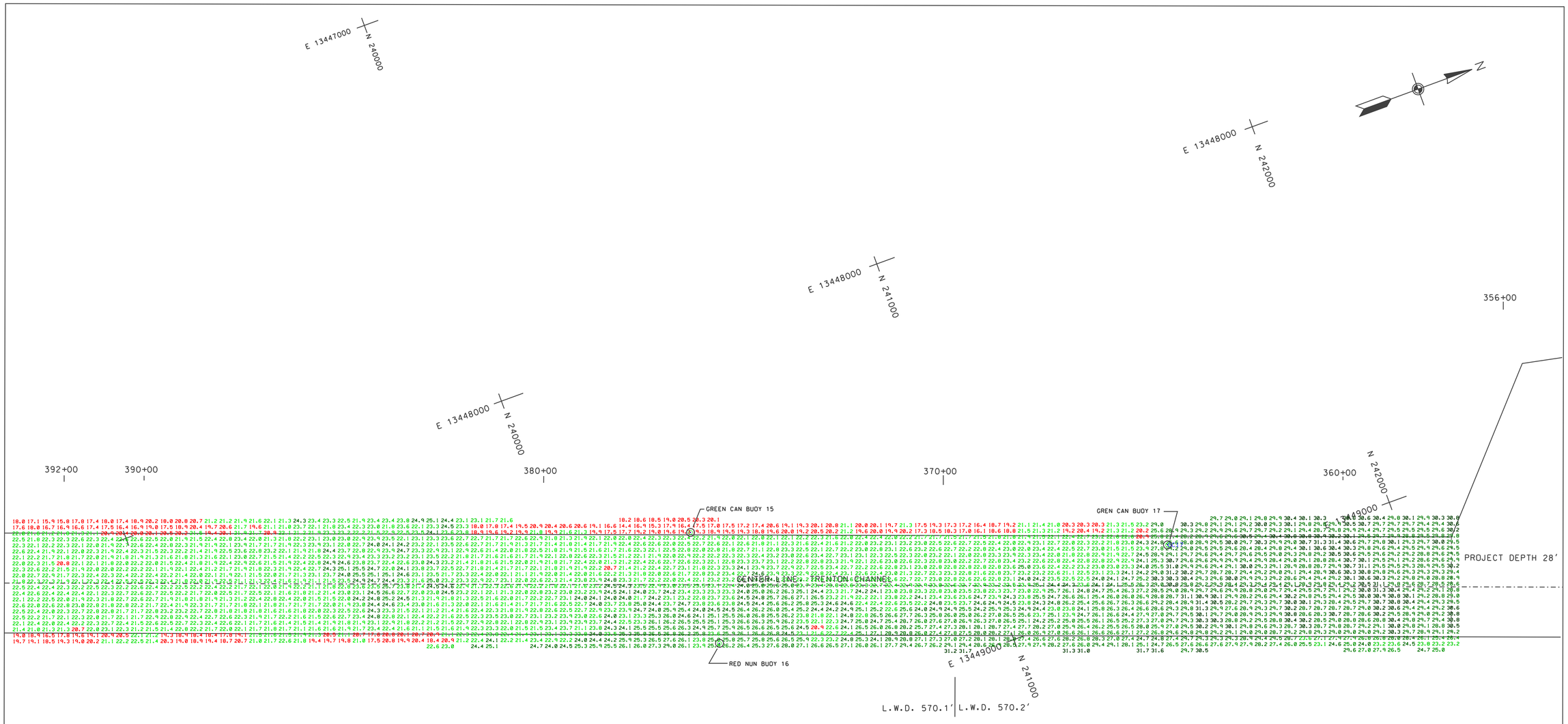

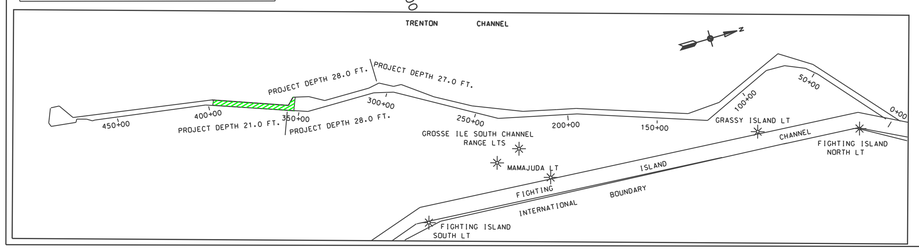


E 13449000 N 240000

E 13449000 N 239000

E 13450000 N 242000

LEGEND

THE INFORMATION SHOWN ON THIS MAP REPRESENTS THE BEST DATA AVAILABLE AT THE TIME OF PRODUCTION. ANY DEVIATIONS MADE ON THE GROUND BY THE DREDGE OPERATOR CANNOT BE CONSIDERED UNTIL THE NEXT SURVEY IS MADE. CONDITIONS MAY CHANGE BETWEEN GENERAL CONDITIONS OBSERVED AT THE TIME.

LOW WATER DATUM

ELEVATIONS SHOWN ON THIS PRODUCT ARE BASED ON LOW WATER DATUM (1985)

GRID COORDINATES

GRID COORDINATES ARE BASED ON THE NATIONAL GEODETIC REFERENCE SYSTEM (1983) PROJECTED TO STATE PLANE COORDINATES, LAMBERT CONFORMAL CONIC ZONE (2113). HORIZONTAL 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: | CADJET |
| SONIC SOUNDER: | RESON SEABAT 8125 |

NOTES:

1. GAGES USED ARE A WEIGHTED AVERAGE OF GAGES OBTAINED ELECTRONICALLY VIA THE INTERNET FROM NOAA GAGES AT WYANDOTTE (54%) AND GIBRALTAR (46%), 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 AND ODOM DIGIBAR PRO DB1200 VELOCITY PROFILER.
4. EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 37 FT. BY 15 FT. MATRIX. THE SHALLOWEST SOUNDING LOCATED IN EACH MATRIX CELL WAS THEN SELECTED FOR PLOTTING AT THE CELL CENTER

100' 0' 100' 200'
SCALE

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

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

| | |
|---|---|
| DESIGNED BY: | DETROIT AREA OFFICE — 13 NOVEMBER 2006 |
| DRAWN BY: J.B. | DETROIT RIVER, MICHIGAN<br>TRENTON CHANNEL<br>CS 356+00 TO CS 392+00<br>MULTI-BEAM SWEEP SURVEY RESULTS<br>MINIMUM DEPTH PLOT |
| CHECKED BY: | |
| REVIEWED BY: | |
| SUBMITTED BY: P.E.<br>CHIEF, PROJ OPNS SEC | APPROVAL RECOMMENDED: P.E. DATE<br>CHIEF, OPERATIONS TECHNICAL SUPPORT BRANCH |
| APPROVED: P.E.<br>CHIEF, CONSTRUCTION - OPERATIONS DIVISION | SCALE AS SHOWN<br>SHEET 11 OF 14<br>DRAWING NUMBER t11s1106.dgn |