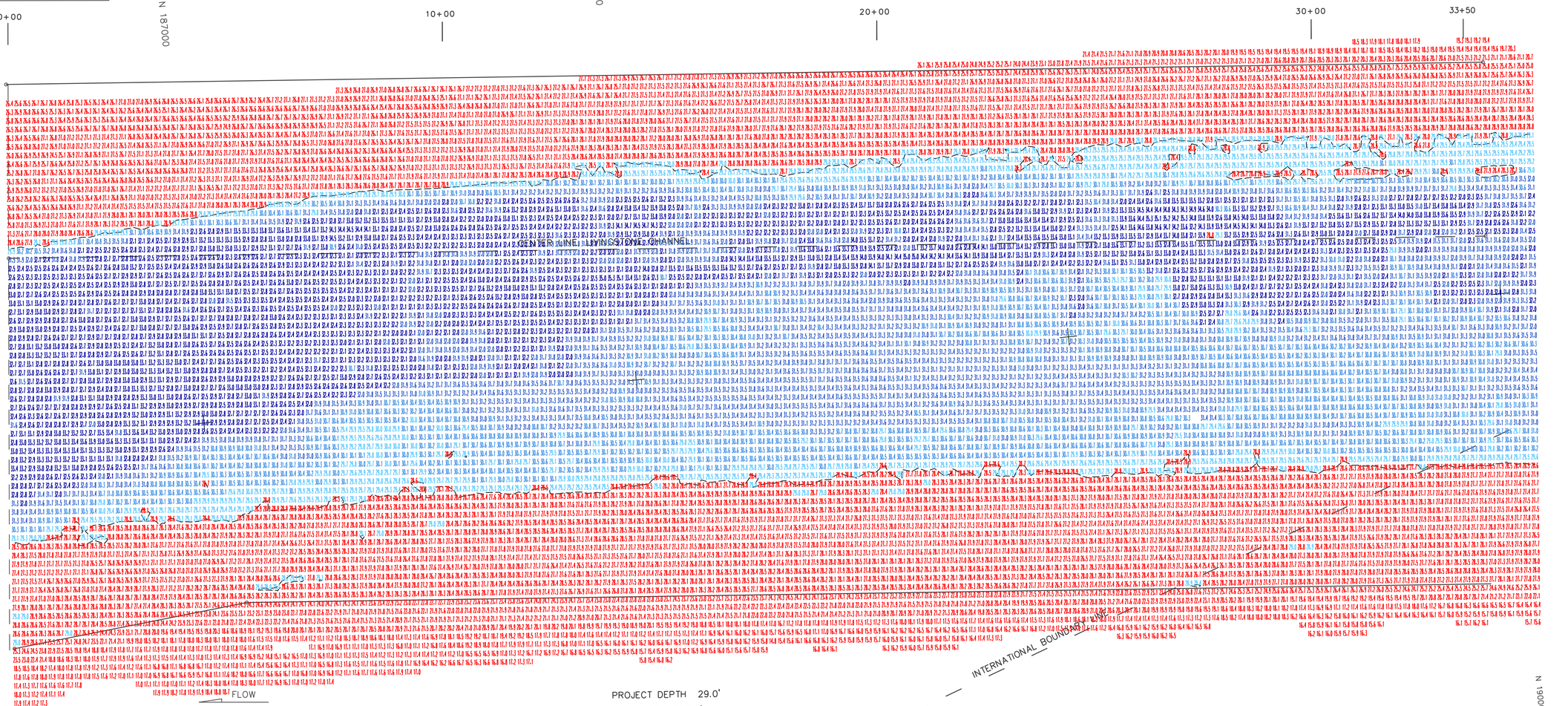

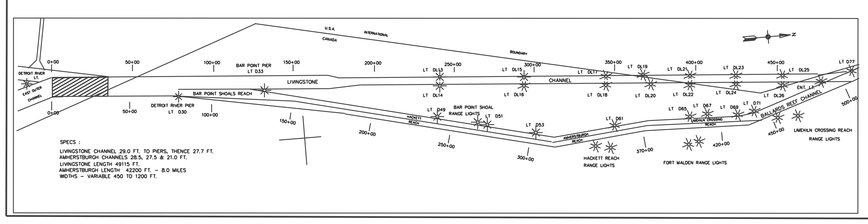

LEGEND

- 0.0'
- 29.0'
- 30.0'
- 31.0'
- 32.0'
- > 33.0'

29 ft. PROJECT DEPTH CONTOUR

LOW WATER DATUM

SURVEY 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 IN U.S. SURVEY FEET.

SURVEY EQUIPMENT USED

POSITIONING:	APPLANIX POS-MV 4
ECHOSOUNDER:	R2 SONIC 2024
SOFTWARE:	HYPACK 2015

THE HYDROGRAPHIC SURVEY WAS CONDUCTED ABOARD THE USACE SURVEY VESSEL"WHEELER".

NOTES:

1. THE INFORMATION DEPICTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THE TIME.
2. TIDE VALUES USED WERE OBTAINED FROM THE NOAA GAGE "FERMI" (@063090) AND REFERENCED TO IGLD OF 1985, LOW WATER DATUM = 569.2.
3. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 BPS
4. EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 20 BY 20 FT MINIMUM MATRIX WITH THE DEPTH VALUE PLACED AT THE CENTER OF EACH CELL.

U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT

100' 0' 100' 200'
SCALE

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

DETROIT AREA OFFICE — 16 JULY 2016

DETROIT RIVER, MICHIGAN

LIVINGSTONE CHANNEL
CS 0+00 TO CS 33+50
MULTI-BEAM SURVEY
CONDITION PLOT

DRAWN BY: B.R.
CHECKED BY: C.V.L.

SCALE AS SHOWN

SHEET 1 OF 14

DRAWING NUMBER Lc1o0606