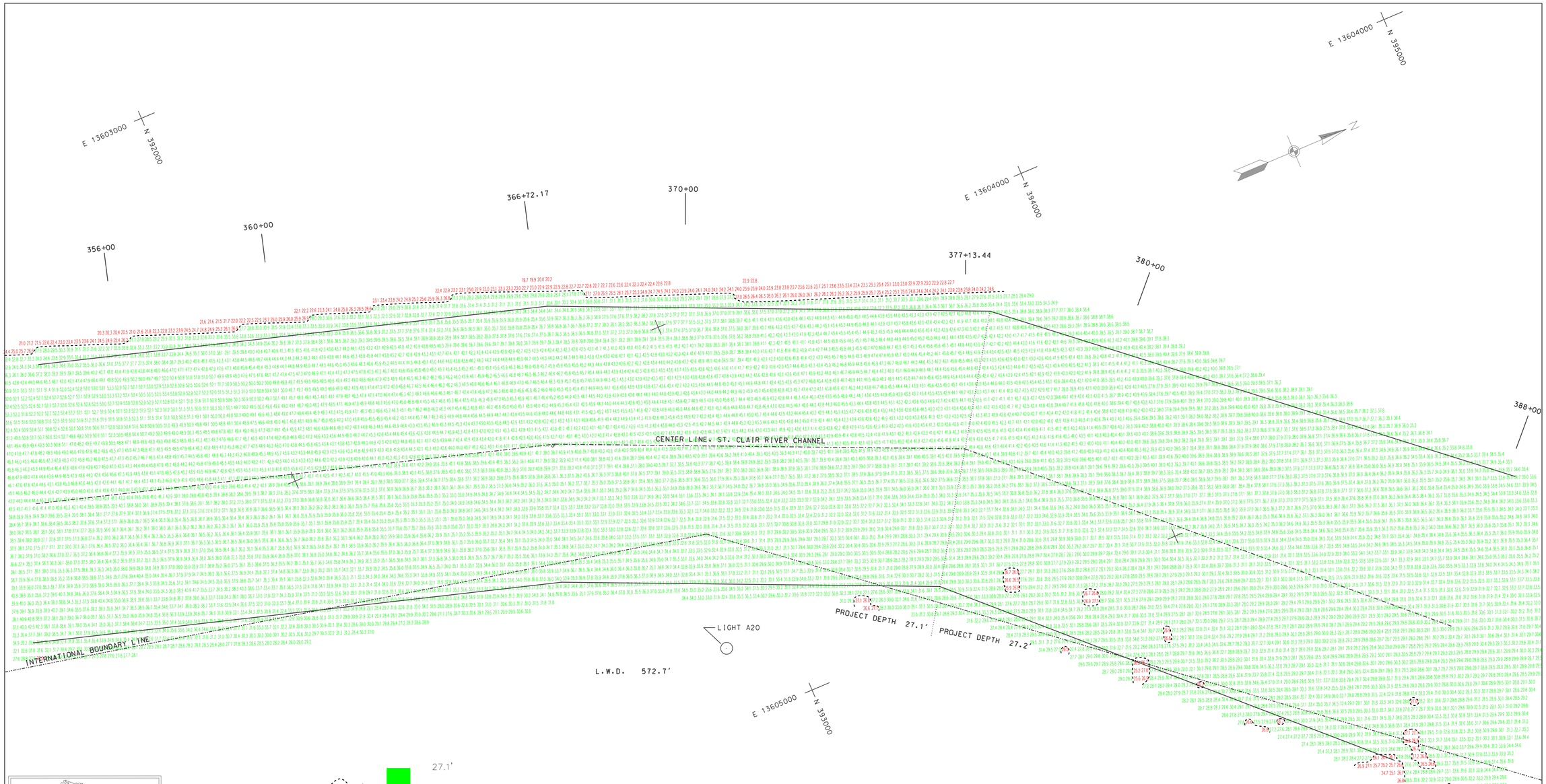

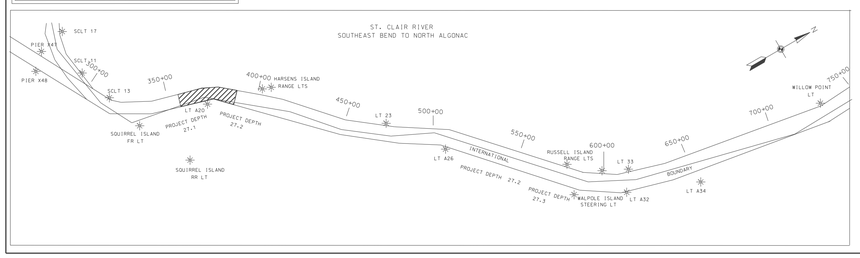

LEGEND

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) AND ARE ELEVATIONS 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 SHOWN ON DRAWING.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY JOHN HAAS AND ROBERT SCHLIEWE. ABOARD THE USACE SURVEY VESSEL WHEELER.

AUTOMATED EQUIPMENT USED

POSITIONING:	TRIMBLE DGPS
SOFTWARE:	HYPACK 2013
DEPTH SOUNDER:	R2SONIC 2024

NOTES:

1. GAGES USED WERE OBTAINED ELECTRONICALLY FROM NOAA GAGES AT ALGONAC (77%) AND ST. CLAIR SHORES (23%). MICHIGAN. VIA THE INTERNET
2. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838. LOCATED AT FORT WAYNE DETROIT. MICHIGAN - FREQUENCY 319 KHZ. 200 BPS

US ARMY CORPS OF ENGINEERS DETROIT DISTRICT

100' 0' 100' 200'
SCALE 1" = 100'

NO.	DATE	REVISION	BY

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

DETROIT AREA OFFICE — 05 NOVEMBER 2013

ST. CLAIR RIVER. MICHIGAN

TASHMOO SHOAL

CS 356+00 TO CS 388+00

CONDITION SURVEY

DRAWN BY: A.W.P.

CHECKED BY:

SCALE AS SHOWN

SHEET 3 OF 54

DRAWING NUMBER sc3cMMYY.dgn