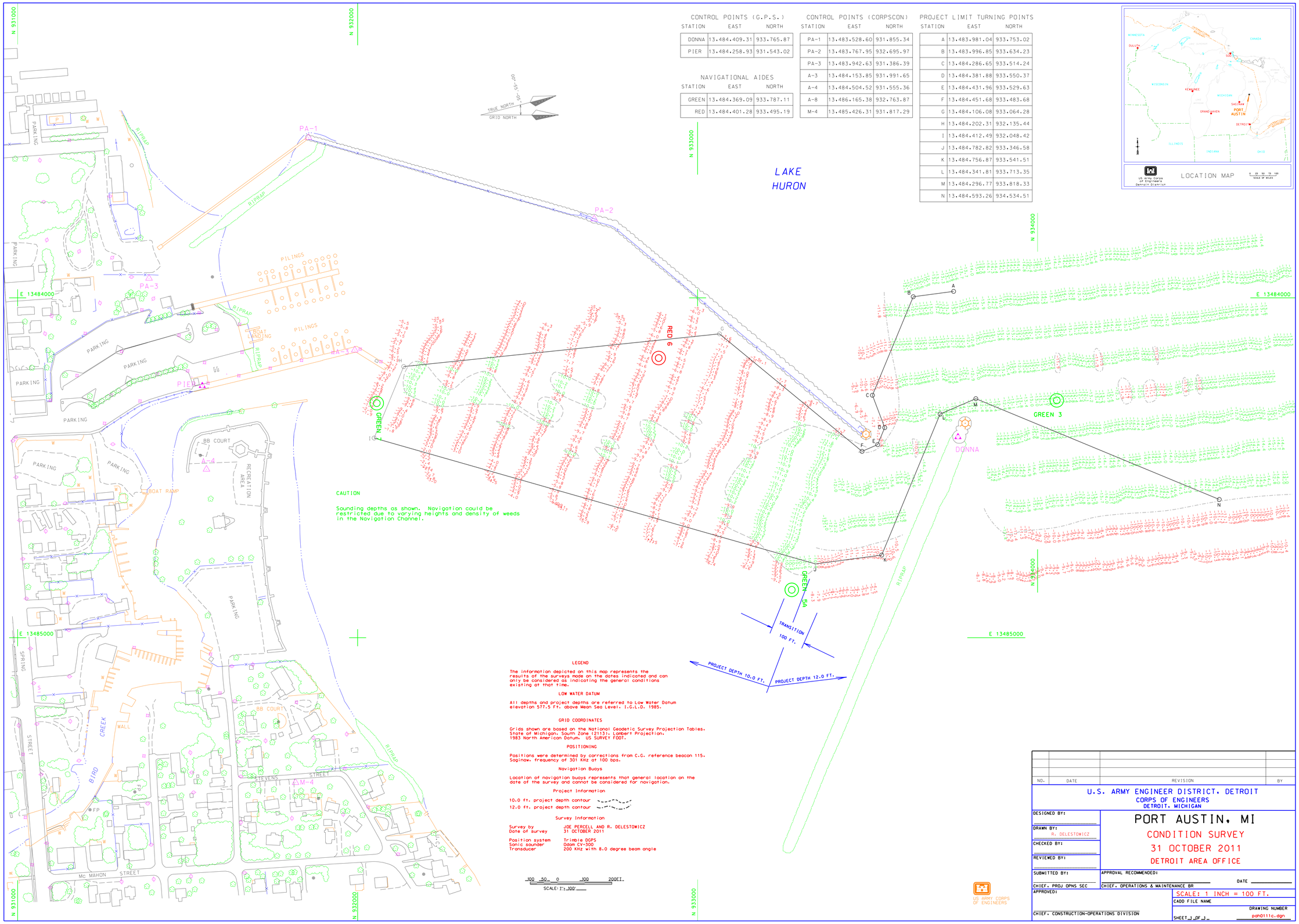

CONTROL POINTS (G.P.S.)

STATION	EAST	NORTH
DONNA	13.484.409.31	933.765.87
PIER	13.484.258.93	931.543.02

NAVIGATIONAL AIDES

STATION	EAST	NORTH
GREEN	13.484.369.09	933.787.11
RED	13.484.401.28	933.495.19

CONTROL POINTS (CORPSCON)

STATION	EAST	NORTH
PA-1	13.483.528.60	931.855.34
PA-2	13.483.767.95	932.695.97
PA-3	13.483.942.63	931.386.39
A-3	13.484.153.85	931.991.65
A-4	13.484.504.52	931.555.36
A-8	13.486.165.38	932.763.87
M-4	13.485.426.31	931.817.29

PROJECT LIMIT TURNING POINTS

STATION	EAST	NORTH
A	13.483.981.04	933.753.02
B	13.483.996.85	933.634.23
C	13.484.286.65	933.514.24
D	13.484.381.88	933.550.37
E	13.484.431.96	933.529.63
F	13.484.451.68	933.483.68
G	13.484.106.08	933.064.28
H	13.484.202.31	932.135.44
I	13.484.412.49	932.048.42
J	13.484.782.82	933.346.58
K	13.484.756.87	933.541.51
L	13.484.341.81	933.713.35
M	13.484.296.77	933.818.33
N	13.484.593.26	934.534.51

LEGEND

The information depicted on this map represents the results of the surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

LOW WATER DATUM

All depths and project depths are referred to Low Water Datum elevation 577.5 Ft. above Mean Sea Level. I.G.L.D. 1985.

GRID COORDINATES

Grids shown are based on the National Geodetic Survey Projection Tables. State of Michigan. South Zone (2113). Lambert Projection. 1983 North American Datum. US SURVEY FOOT.

POSITIONING

Positions were determined by corrections from C.G. reference beacon 115. Saginaw. frequency of 301 KHz at 100 bps.

Navigation Buoys

Location of navigation buoys represents that general location on the date of the survey and cannot be considered for navigation.

Project Information

10.0 ft. project depth contour
12.0 ft. project depth contour

Survey Information

Survey by	JOE PERCELL AND R. DELESTOWICZ
Date of survey	31 OCTOBER 2011
Position system	Trimble DGPS
Sonic sounder	Odom CV-300
Transducer	200 KHz with 8.0 degree beam angle

100 50 0 100 200FT.
SCALE: 1"=100'

NO.	DATE	REVISION	BY

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

DESIGNED BY:
DRAWN BY: R. DELESTOWICZ
CHECKED BY:
REVIEWED BY:
SUBMITTED BY:
CHIEF, PROJ OPNS SEC
APPROVED:
CHIEF, CONSTRUCTION-OPERATIONS DIVISION

PORT AUSTIN, MI

CONDITION SURVEY

31 OCTOBER 2011

DETROIT AREA OFFICE

APPROVAL RECOMMENDED:
CHIEF, OPERATIONS & MAINTENANCE BR
DATE

US ARMY CORPS OF ENGINEERS

SCALE: 1 INCH = 100 FT.
CADD FILE NAME
DRAWING NUMBER
SHEET ___ OF ___
pah011c.dgn