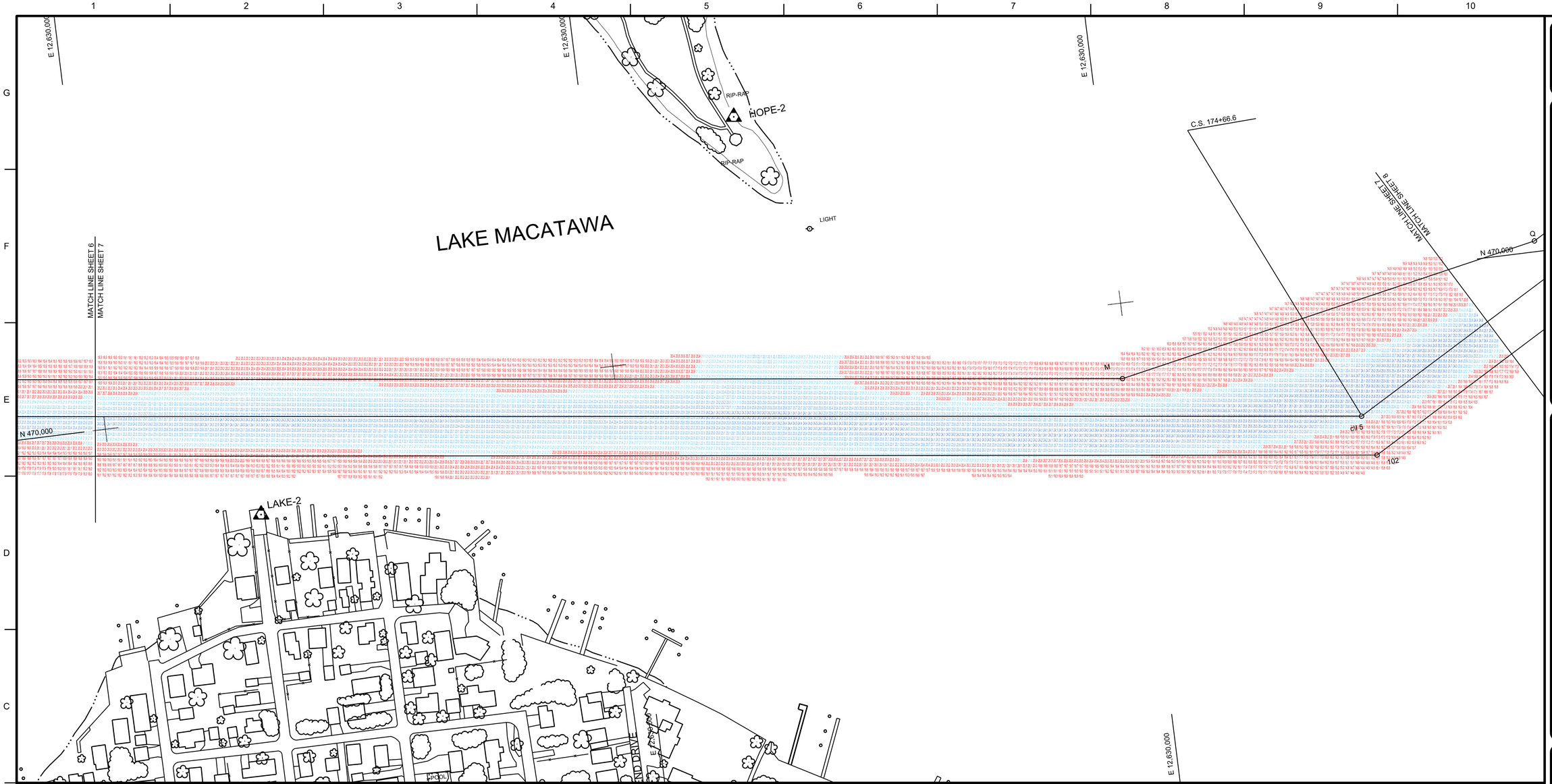


ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. 1985 FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC.

GRID SYSTEM BASED ON LAMBERT PROJECTION, MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (2113) 1983 NORTH AMERICAN DATUM, U.S. FOOT.

THE SOUNDINGS INDICATED HEREIN ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATA SET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10X10 AREA CENTERED ON THE TEXT, DERIVED FROM A 1X1 AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICE TO NAVIGATION INTERESTS.

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL NEAR CROSS SECTION 17+50E IN HOLLAND HARBOR, MI.

SURVEYED ON: 18 APRIL 2019
POSITIONING METHOD: APPLANIX POS M/V W/DGPS CORRECTIONS
MOTION COMPENSATION: APPLANIX OCEAN MASTER POS M/V
EQUIPMENT: R2 SONIC 2024 MULTIBEAM ECHOSOUNDER
SOFTWARE: HYPACK
VESSEL: LAUNCH 3058

21' Legend

0.0'
21.0'
22.0'
23.0'
24.0'
24.0' +

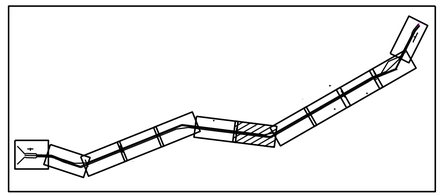
0 100' 200'

CHANNEL LINE T.P.

T.P.	EAST X	NORTH Y
M	12,643,985.57	470,853.10
Q	12,644,817.99	471,021.15
102	12,644,461.09	470,643.36

CENTER LINE T.P.

T.P.	EAST X	NORTH Y
CL 5	12,644,440.33	470,722.52



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE: 22-APRIL-2019
SOLICITATION NO.:
CONTRACT NO.:
DRAWING NUMBER:

SURVEYED BY: E.D.S.
DRAWN BY: E.D.S.
REVIEWED BY:
APPROVED BY:
SIZE: ANSI D
FILE NAME: holland 2019.dgn

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
477 MICHIGAN AVE
DETROIT, MI 48226

LAKE MICHIGAN AREA OFFICE
307 SOUTH HARBOR DR
GRAND HAVEN, MI 49534

HOLLAND HARBOR
MICHIGAN

CONDITION OF CHANNEL APRIL 2019

SHEET ID

VH107