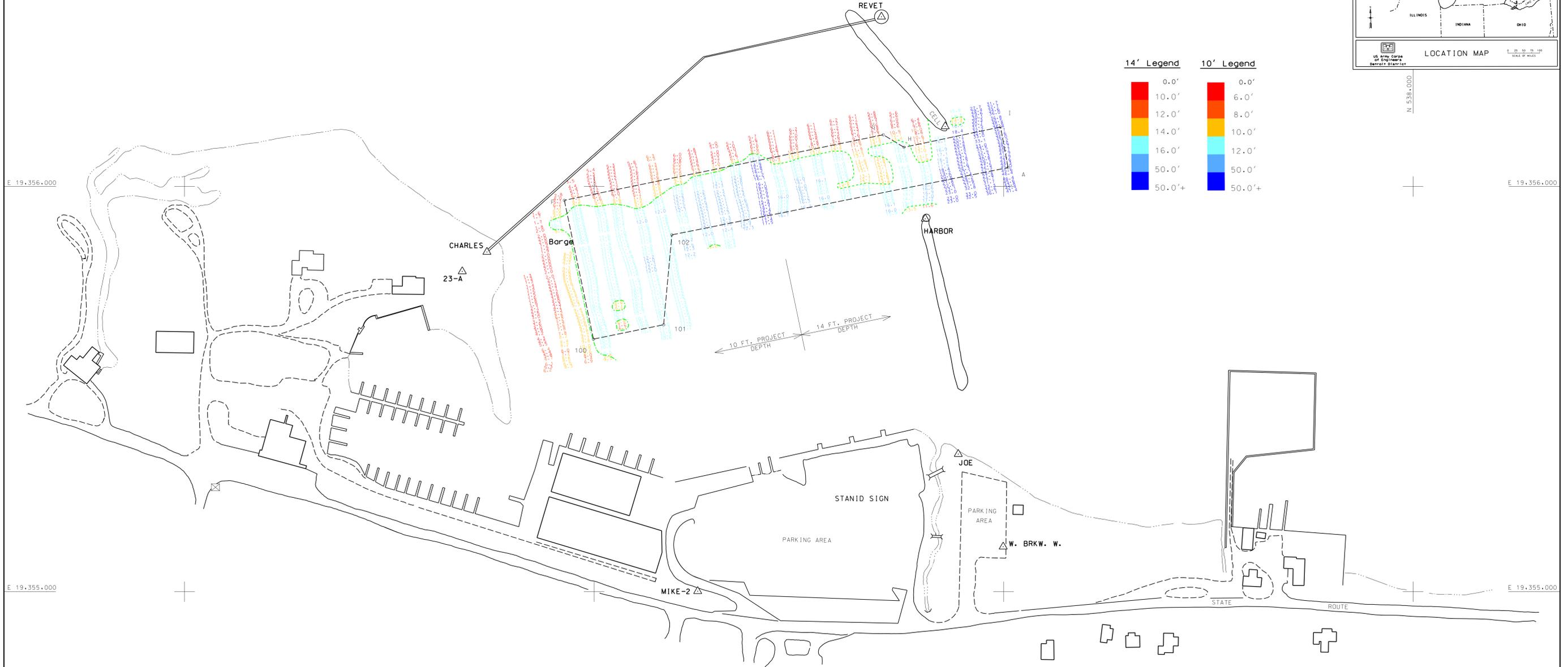
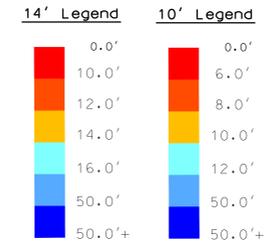
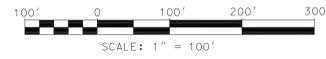


LAKE MICHIGAN
WEST ARM OF GRAND TRAVERSE BAY



PROJECT DEPTH 10 FT.
PROJECT DEPTH 14 FT.
CHANNEL LIMITS SHOWN THUS: - - - - -
10 FT. CONTOUR SHOWN THUS: - · - · -
14 FT. CONTOUR SHOWN THUS: - · - · -

CHANNEL CONTROL DATA			
STATION NUMBER	DESCRIPTION	COORDINATES	
		NORTH	EAST
A	CHANNEL LINE	538,989.04	19,356,046.64
F	CHANNEL LINE	540,072.58	19,355,966.08
G	CHANNEL LINE	539,293.71	19,356,127.84
H	CHANNEL LINE	539,243.22	19,356,096.97
I	CHANNEL LINE	539,007.34	19,356,146.96
100	CHANNEL LINE	540,001.51	19,355,623.41
101	CHANNEL LINE	539,830.18	19,355,658.90
102	CHANNEL LINE	539,810.00	19,355,880.79

SURVEYED ON: 22 OCTOBER 2014
POSITIONING METHOD: DGPS, USING C. G. BEACON CORRECTIONS
VESSEL: LAUNCH 3033

ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. 1985 FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC. HYDRAULIC CORRECTOR OF 0.2 FT. APPLIED.

GRID SYSTEM BASED ON LAMBERT PROJECTION, MICHIGAN STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (2112) 1983 NORTH AMERICAN DATUM, U.S. SURVEY FOOT.

ALL NAD83 GRID AND COORDINATE DATA USED FOR THIS SHEET WERE CONVERTED FROM NAD27 COORDINATES USING CORPSCON VERSION 3.01 SOFTWARE.

THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING LINE DRAWINGS OF UNKNOWN DATE OF ORIGIN AND ARE OUTDATED AND INACCURATE.

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 EXISTING AT THAT TIME.

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL AT THE HARBOR BOAT RAMP IN GREILICKVILLE HARBOR, MI.

NO.	DATE	REVISION	BY
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
DESIGNED BY:	GREILICKVILLE HARBOR MICHIGAN CONDITION OF CHANNEL OCTOBER 2014 GRAND HAVEN AREA OFFICE		
DRAWN BY:			
CHECKED BY:			
REVIEWED BY:			
SUBMITTED BY:	APPROVAL RECOMMENDED:	DATE	
CHIEF, PROJ. OPNS. SEC.	CHIEF, OTS BRANCH		
APPROVED:	SCALE 1" = 100 FT.		
		ADD FILE NAME	GVCD1G14.DGN
CHIEF, CONST. OPNS. DIVISION		P.E.	DRAWING NUMBER
		SHEET 1 OF 1	