

CHANNEL LINE COORDINATES		
POINT	EASTING	NORTHING
CLL33	12,648,220.67	563,883.99
CLP33	12,648,269.36	563,872.48
CLR33	12,648,318.05	563,860.97
CLL34	12,648,329.70	564,427.30
CLP34	12,648,378.34	564,415.58
CLR34	12,648,426.99	564,403.87
CLL35	12,648,379.54	564,604.31
CLP35	12,648,426.90	564,588.02
CLR35	12,648,474.25	564,571.72
CLL36	12,648,593.14	565,126.24
CLP36	12,648,637.26	565,102.04
CLR36	12,648,681.38	565,077.84
CLL37	12,648,806.54	565,428.34
CLP37	12,648,845.27	565,396.50
CLR37	12,648,884.00	565,364.67
CLL38	12,649,371.25	566,021.26
CLP38	12,649,404.29	565,983.45
CLR38	12,649,437.33	565,945.64
CLL39	12,650,005.66	566,480.49
CLP39	12,650,028.72	566,435.46
CLR39	12,650,051.78	566,390.42
CLL40	12,651,189.59	566,872.74
CLP40	12,651,199.74	566,823.43
CLR40	12,651,209.90	566,774.12
CLL41	12,651,986.61	566,941.77
CLP41	12,651,980.36	566,891.04
CLR41	12,651,974.11	566,840.31
CLL42	12,653,252.69	566,505.71
CLP42	12,653,236.59	566,458.36
CLR42	12,653,220.58	566,411.00
MTP5	12,648,176.01	563,530.24
MTP6	12,654,261.83	566,116.01

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.

ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION 577.0 FT. ABOVE MEAN SEA LEVEL I.G.L.D. 1955

HORIZONTAL GRID SYSTEM IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983 (NAD83), US FOOT.

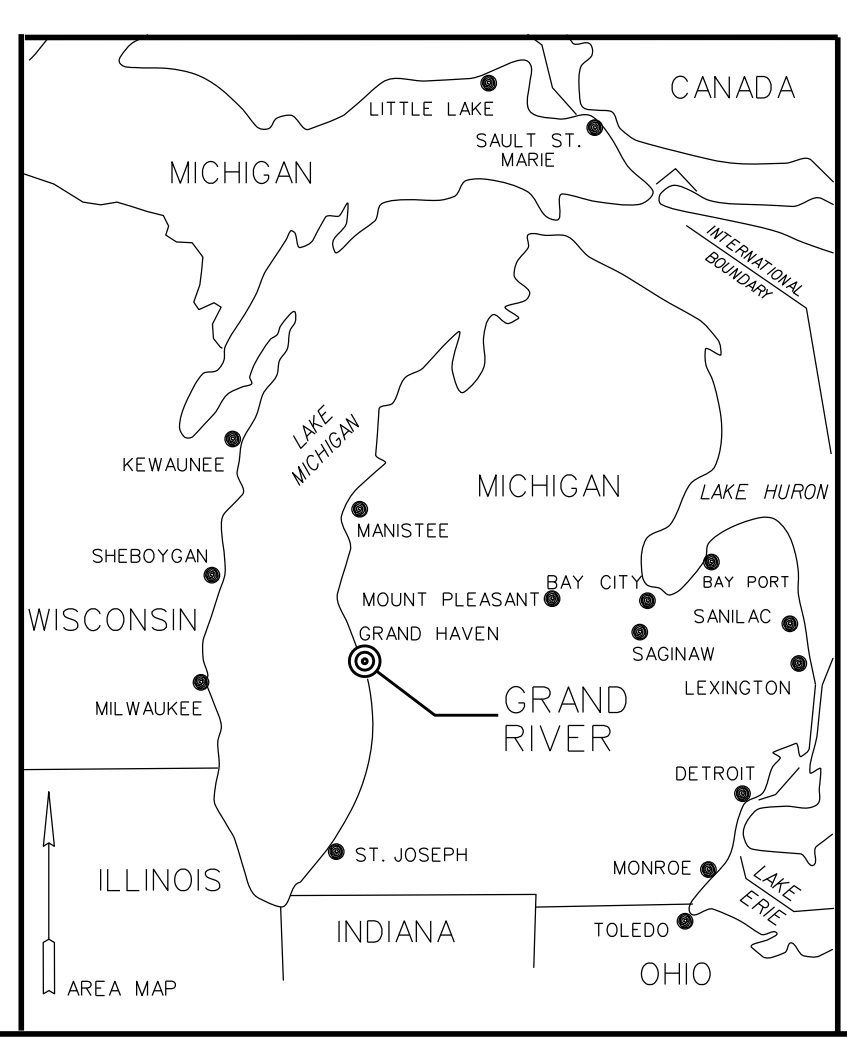
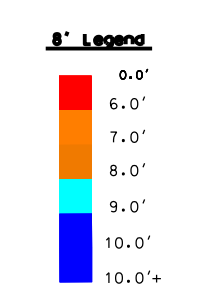
THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING LINE DRAWINGS DATED APRIL 1976 AND ARE OUTDATED AND INACCURATE.

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

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL IN THE GRAND HAVEN GOVERNMENT BASIN.

SURVEYED ON: 19 SEPTEMBER 2014
 POSITIONING METHOD: DGPS, USING C.G. BEACON CORRECTIONS
 VESSEL: LAUNCH 3033

PROJECT DEPTH 8 FT.
 CHANNEL LIMITS SHOWN THUS: - - - - -
 8 FT. CONTOUR SHOWN THUS: - - - - -



NO.	DATE	REVISION	BY

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

GRAND RIVER, MICHIGAN
CONDITION OF CHANNEL
 SEPTEMBER 2014
 GRAND HAVEN AREA OFFICE

DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 REVIEWED: _____
 SUBMITTED: _____

APPROVAL RECOMMENDED: _____
 APPROVED: _____
 CHIEF, PROJ. OPERS. SEC. CHIEF, OTS BRANCH

SCALE 1" = 100 FT.
 CADD FILENAME: GRC68014.DGN
 DRAWING NUMBER: _____
 SHEET #8 OF 11