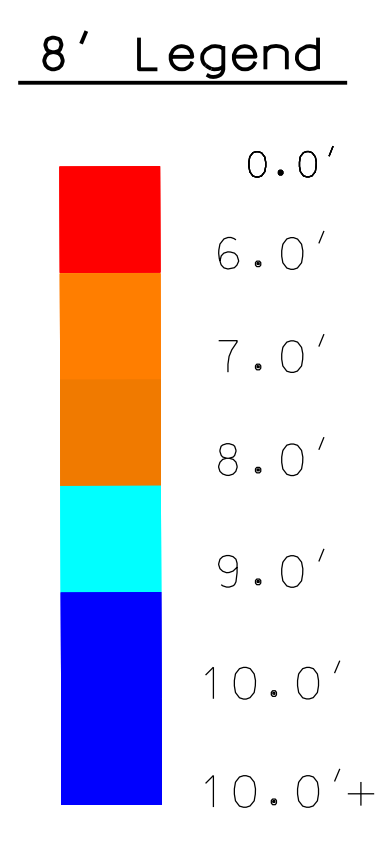


CHANNEL LINE COORDINATES		
POINT	EASTING	NORTHING
CLL55	12.668.643.16	566.393.70
CLP55	12.668.627.17	566.336.30
CLR55	12.668.611.17	566.288.91
CLL56	12.669.433.70	566.092.27
CLP56	12.669.412.43	566.046.82
CLR56	12.669.391.17	566.001.36
CLL57	12.670.852.75	565.276.25
CLP57	12.670.823.18	565.235.58
CLR57	12.670.793.61	565.194.91
CLL58	12.671.631.27	564.571.78
CLP58	12.671.598.48	564.534.02
CLR58	12.671.565.68	564.496.27
CLL59	12.672.325.39	563.992.01
CLP59	12.672.296.42	563.951.06
CLR59	12.672.267.44	563.910.12
CLL60	12.672.809.27	563.704.74
CLP60	12.672.787.16	563.659.71
CLR60	12.672.765.05	563.614.69
CLL61	12.673.415.89	563.464.40
CLP61	12.673.394.11	563.419.25
CLR61	12.673.372.33	563.374.09
MTP8	12.668.053.15	566.512.13
MTP9	12.674.164.02	562.976.59



SURVEYED ON: 24 SEPTEMBER 2014
 POSITIONING METHOD: DGPS, USING C. G. BEACON CORRECTION
 VESSEL: LAUNCH 3033

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

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.

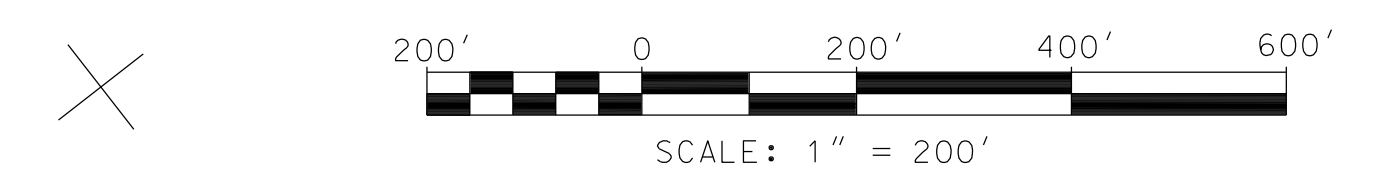
ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION AS SHOWN ABOVE MEAN SEA LEVEL 1.G.L.D. 1955.

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THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING LINE DRAWINGS DATED APRIL 1976 AND ARE OUTDATED AND INACCURATE.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



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: _____	APPROVAL RECOMMENDED: _____ DATE: _____ SCALE 1" = 200 FT. CADD FILENAME: GR09G14.DGN DRAWING NUMBER: SHEET 9 OF 11
DESIGNED BY: _____	
CHECKED BY: _____	
REVIEWED: _____	
SUBMITTED: _____	
CHEF, PROJ. OPERS. SEC. _____	CHEF, OTS BRANCH _____
APPROVED _____ PE	_____
CHEF, CONST. - DPNS DIVISION _____	_____