



CENTERLINE TURNING POINT CONTROL

C/L POINT	COORDINATES NORTH (Y)	EAST (X)
6	730.306.65	19.457.442.25
7	730.182.65	19.457.326.64
8	729.803.44	19.459.101.83

CHANNEL LINE TURNING PT. CONTROL

CHANNEL POINT	COORDINATES NORTH (Y)	EAST (X)
T	730.398.27	19.457.471.81
W	730.215.96	19.457.937.39
Z	729.836.75	19.459.112.58
U	730.159.16	19.457.631.04
S	730.081.94	19.458.125.06
R	729.770.13	19.459.091.08

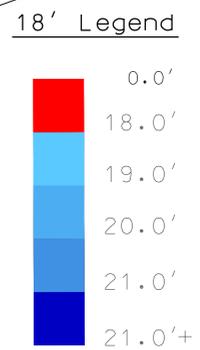
ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC. HYDRAULIC CORRECTOR OF 0.2 FEET APPLIED.

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

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 NEAR CROSS SECTION 4+00E IN CHARLEVOIX HARBOR, MI.

PROJECT DEPTH 18 FT.  
 CHANNEL LIMITS SHOWN THUS: - - - - -  
 18 FT. CONTOUR SHOWN THUS: - - - - -



SOUNDED ON: 2 SEPTEMBER 2015  
 POSITIONING METHOD: DGPS, USING C. G. BEACON CORRECTIONS  
 VESSEL: LAUNCH 3033

NO.	DATE	REVISION	BY
<b>U.S. ARMY ENGINEER DISTRICT, DETROIT</b> CORPS OF ENGINEERS DETROIT, MICHIGAN			
DRAWN BY		<b>CHARLEVOIX HARBOR, MICHIGAN</b> <b>CONDITION OF CHANNEL</b> <b>SEPTEMBER 2015</b> <b>GRAND HAVEN AREA OFFICE</b>	
DESIGNED BY			
CHECKED BY			
REVIEWED:			
SUBMITTED:			
APPROVED:		APPROVAL RECOMMENDED:	
CHIEF PROJ. OPNS. SEC.		CHIEF, 61ST BRANCH	
DATE		SCALE 1" = 100'	
APPROVED		CADD FILENAME: CX02015.DGN DRAWING NUMBER	
CHIEF, CONST. OPNS. DIVISION		SHEET 2 OF 2	

DATE OF PHOTOGRAPHY  
14 APRIL 1994