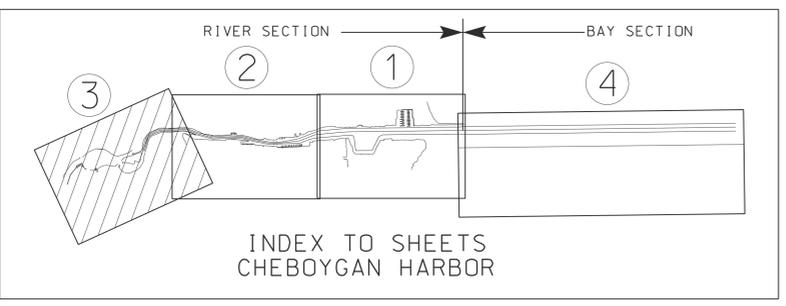
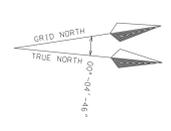


- NOTES:
- 1) THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULT OF SURVEYS MADE ON THE DATE AS INDICATED AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.
 - 2) THE SOUNDINGS DEPICTED HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND TENTHS THEREOF AND ARE REFERENCED TO THE FOLLOWING DATUMS:
 HORIZONTAL: MICHIGAN STATE PLANE COORDINATE SYSTEM, MICHIGAN CENTRAL ZONE #212, NORTH AMERICAN DATUM (NAD) OF 1983.
 VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.
 - 3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:
 POSITIONING: APPLANIX POS-MV4 W/DGPS CORRECTIONS,
 U.S.C.G. BEACON #292
 MOTION COMPENSATION: APPLANIX POMV4
 SONAR: ODOM CV-300 (SINGLEBEAM TRANSDUCER)
 SOFTWARE: HYPAACK 2012
 - 4) WATER LEVEL ELEVATIONS WERE OBTAINED FROM TBM STEEL CORNER WHICH WAS ESTABLISHED FROM NGS VERTICAL CONTROL POINT BM RANGE (PID OK0021).
 - 5) THE EDITED SINGLEBEAM DATA WAS SORTED INTO A 10 FT. DATA SET WITH THE RESULTING POINTS POSTED.

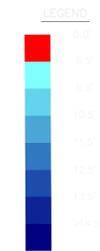


CONTROL POINTS (G.P.S.)			
STATION	EAST	NORTH	
CHEB.#7	19.656.233.01	846.335.90	

CENTERLINE TURNING POINTS			
STATION	EAST	NORTH	
14	76+52.37	19.656.055.58	847.130.74
15	77+94.19	19.655.969.55	847.017.99
16	79+38.29	19.655.910.69	846.886.46
17	81+46.93	19.655.886.50	846.679.23
18	82+64.38	19.655.919.49	846.566.51
19	86+17.81	19.656.143.89	846.293.46

CONTROL POINTS (CORPSON)			
STATION	EAST	NORTH	
16	19.656.579.75	846.070.61	
17	19.656.561.06	845.122.34	
CHEB.#1	19.656.266.23	847.360.40	
CHEB.#2	19.656.050.03	847.003.60	
CHEB.#3	19.655.983.04	846.774.11	
CHEB.#4	19.655.963.38	846.654.01	
CHEB.#5	19.656.003.33	846.563.13	
CHEB.#6	19.656.193.80	846.316.16	

CHANNEL LIMITS TURNING POINTS			
STATION	EAST	NORTH	
31	19.656.080.49	847.113.93	
32	19.656.030.67	847.147.54	
33	19.655.995.51	847.002.56	
34	19.655.943.59	847.033.42	
35	19.655.960.37	846.924.04	
36	19.655.881.42	846.894.51	
37	19.655.934.16	846.828.75	
38	19.655.855.99	846.676.65	
39	19.655.917.00	846.681.80	
40	19.655.892.42	846.552.20	
41	19.655.946.56	846.580.82	
42	19.656.120.71	846.274.41	
43	19.656.167.06	846.312.50	



8.5 FT. PROJECT DEPTH CONTOUR
 18.5 FT. PROJECT DEPTH CONTOUR

	UNITED STATES ARMY CORPS OF ENGINEERS DETROIT AREA OFFICE, DETROIT, MICHIGAN	
	CONDITION SURVEY CHEBOYGAN HARBOR, MI	
DRAWN BY: J.K.P.	CS 72+00 TO CS 86+00	
CHECKED BY: C.V.L.	DATE OF SURVEY: 21 SEPTEMBER 2016	
SCALE 1" = 100'		SHEET 3 OF 4