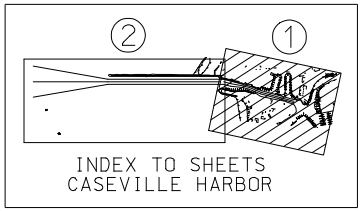
CHANNEL LINE TURNING POINTS		
STATION	EAST	NORTH
1	13,410,550.46	892,486.22
2	13,410,519.52	892,446.93
3	13,410,119.41	892,825.53
4	13,410,086.16	892,788.06
5	13,409,975.75	892,968.97
6	13,409,942.51	892,931.50
7	13,409,634.23	893,238.21
8	13,409,865.79	892,991.89
10	13,409,689.62	893,092.78
12	13,409,593.01	893,168.83

CONTROL POINTS (CORPSCON)		
STATION	EAST	NORTH
C-10	13,410,620.50	892,951.05
C-11	13,409,974.35	892,700.76
C-12	13,410,595.66	892,165.78
C-13	13,410,627.44	891,824.51
PT-C	13,410,052.03	892,742.38
PT-D	13,410,507.77	892,383.63
PT-F	13,410,905.21	891,972.67
104	13,409,656.21	893,297.55
105	13,409,623.66	893,259.59
108	13,409,630.17	893,267.18
111	13,409,911.02	893,227.13
BEADLE	13,409,614.68	892,233.07

CENTERLINE TURNING POINTS			
STATION		EAST	NORTH
0+00	0	13,410,534.98	892,466.57
5+50.04	1	13,410,102.79	892,806.79
7+53.06	2	13,409,959.13	892,950.23
8+53.07	3	13,409,880.54	893,012.10
10+55.72	4	13,409,712.64	893,125.56
11+81.74	5	13,409,613.62	893,203.51

CONTROL POINTS (G.P.S.)		
STATION	EAST	NORTH
C-12 (BM)	13,410,595.66	892,165.78
PT "G"	13,410,160.91	892,880.69

BEADLE



INDEX TO SHEETS
CASEVILLE HARBOR

LEGEND

The information depicted on this map represents the results of the survey made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

LOW WATER DATUM

All depths and project depths are referred to Low Water Datum elevation 577.5 Ft. above Mean Water Level. (I.G.L.D. 85).

GRID COORDINATES

Grids shown are based on the National Geodetic Survey Projection Tables. State of Michigan, South Zone (2113), Lambert Projection. 1983 North American Datum US SURVEY FOOT.

Navigation Buoys

Location of navigation buoys represents their general location on the date of the survey and cannot be considered for navigation.

Project Information

Project Depth - 8.0 Ft.

8.0 Ft. contour shown thus ————

Survey Information

Survey by R. DELESTOWICZ
Date of survey 2 JUNE, 2004

Position system Starlink DGPS via Coast Guard System
Sonic sounder Innerspace 448
Transducer 208 KHz with 3.0 degree beam angle

C-13

NO.	DATE	REVISION	BY

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

CASEVILLE HARBOR, MI

CONDITION JUNE, 2004

SAGINAW FIELD OFFICE

DESIGNED BY:
DRAWN BY: R. DELESTOWICZ
CHECKED BY:
REVIEWED BY:
SUBMITTED BY:
CHIEF, PROJ OPNS SEC
APPROVED:
CHIEF, CONSTRUCTION-OPERATIONS DIVISION

APPROVAL RECOMMENDED:
CHIEF, OPERATIONS & MAINTENANCE BR
DATE

SCALE: 1 INCH = 50 FT.
CADD FILE NAME CSHOT04C.DGN
DRAWING NUMBER
SHEET 1 OF 2