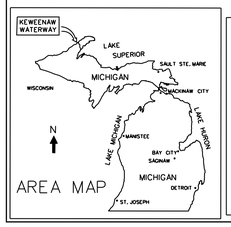
COORDINATE TABLE

STATION	DESCRIPTION	COORDINATES NORTHING	COORDINATES EASTING
BREAK	ALUM. CAP	828639.002	25878275.789
RANGE	BRASS DISK	819681.209	25878843.215
WILDER	ALUM. CAP	822096.351	25878581.871
RED L1 *22	NAVIG. AID	821358.931	25878238.888
GRN L1 *25	NAVIG. AID	822927.997	25877749.167
PT. 73	E. CHANNEL LINE	824962.0	25877625.5
PT. 75	E. CHANNEL LINE	821349.5	25878546.7
PT. 77	E. CHANNEL LINE	819160.9	25879736.8
PT. 79	E. CHANNEL LINE	809467.8	25888632.2
PT. Q	CENTERLINE	852931.9	25871042.2
PT. R	CENTERLINE	824924.7	25877480.2
PT. S	CENTERLINE	820031.7	25878728.0
PT. T	CENTERLINE	809435.6	25888517.7
PT. 70	W. CHANNEL LINE	824887.4	25877334.9
PT. 72	W. CHANNEL LINE	819957.8	25878592.0
PT. 74	W. CHANNEL LINE	809922.7	25888863.4

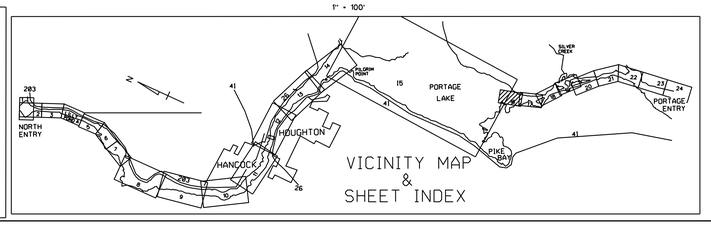
COMBINED GRID SCALE FACTOR = .99998791
GRID DIST. DIVIDED BY COMBINED GRID SCALE FACTOR = GROUND DIST.

100 0 100 200 300

1" = 100'



AREA MAP



VICINITY MAP & SHEET INDEX

NOTES

1) 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 PRESENT AT THAT TIME.

2) ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION 601.1 ABOVE MEAN SEA LEVEL, I.G.L.D. 1985.

3) PROJECT DEPTHS FOR THIS AREA ARE 25 FT.

4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD 83), US FOOT.

5) THE LOCATION OF NAVIGATION BUOYS REPRESENTS THE GENERAL LOCATION ON THE DATE OF THE SURVEY AND CANNOT BE CONSIDERED FOR NAVIGATION.

6) THE SURVEY SHOWN WAS CONDUCTED BY D.C.GOLTZ, PARTY CHIEF DURING 17 SEPT. 2006, USING D.G.P.S. POSITIONING, AN INNERSPACE 448 SOUNDER, AND A HYPACK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

LEGEND

- HORIZONTAL CONTROL POINT G.P.S.
- HORIZONTAL CONTROL POINT
- DREDGING LIMIT TURNING POINT
- CHANNEL LINE TURNING POINT
- CENTER LINE 00+00
- CHANNEL LINE
- DREDGING LIMIT
- SHORELINE
- PROJECT DEPTH CONTOUR
- 15+00 --- CENTER LINE STATIONS

NO.	DATE	REVISION	BY

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

DESIGNED BY:*
DRAWN BY:*
CHECKED BY:*
REVIEWED BY:*
SUBMITTED BY:*
CHIEF, PROJ. OPNS. SEC.
APPROVED:*
CHIEF, CONST. OPNS. DIVN.
(* AS REQUIRED BY ENGINEERING CIRCULAR 1110-1-76)

KEWEENAW - WATERWAY
MICHIGAN

CONDITION SURVEY - SEPTEMBER 2006

DULUTH AREA OFFICE — DULUTH, MN

APPROVAL RECOMMENDED:*
CHIEF, OTS BRANCH
DATE

SCALE AS SHOWN 1 " = 100 '
CADD FILE NAME KW216C06.DGN
DRAWING NUMBER
SHEET 1 OF 1

THIS PLAN ACCOMPANIES CONTRACT NO.
MODIFICATION NO.

INVITATION NO. DACW.

KW 7570/16-14