COORDINATE TABLE

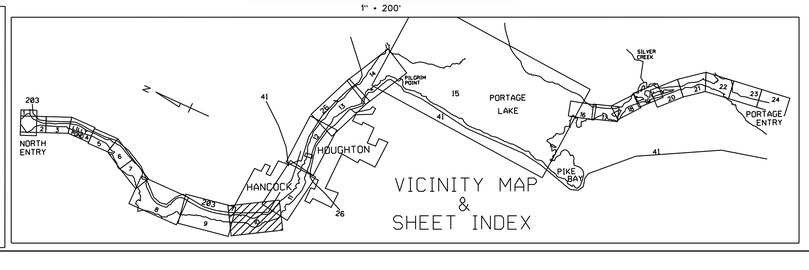
STATION	DESCRIPTION	COORDINATES NORTHING	COORDINATES EASTING
BISQUET	ALUM. CAP	858727.844	25845306.907
O.P.	ALUM. CAP	857225.797	25849788.214
RUNES	BRASS DISK	856513.654	25851482.977
UPPCO	ALUM. CAP	857251.488	25846983.101
RED LT	NAVIG. AID	857127.409	25849787.052
WNDSK PST	NAVIG. AID	858024.793	25848843.355
WLT TWR 1	NAVIG. AID	857073.124	25845844.954
WLT E ARM	NAVIG. AID	858863.247	25845925.245
PT. 51	E. CHANNEL LINE	858791.1	25844837.3
PT. 53	E. CHANNEL LINE	858639.4	25845198.1
PT. 55	E. CHANNEL LINE	858411.2	25846520.2
PT. 57	E. CHANNEL LINE	857231.8	25848923.5
PT. 59	E. CHANNEL LINE	857055.9	25849391.5
PT. 61	E. CHANNEL LINE	856955.3	25849940.3
PT. 65	E. CHANNEL LINE	857667.0	25856062.0
PT. K	CENTERLINE	858468.4	25844425.1
PT. L	CENTERLINE	858062.5	25846776.8
PT. M	CENTERLINE	856665.8	25849623.0
PT. N	CENTERLINE	857466.3	25856068.5
PT. 48	W. CHANNEL LINE	858283.5	25844320.3
PT. 50	W. CHANNEL LINE	857955.3	25846221.8
PT. 52	W. CHANNEL LINE	857650.0	25847163.4
PT. 54	W. CHANNEL LINE	856459.9	25849588.5
PT. 56	W. CHANNEL LINE	857204.0	25855578.9

COMBINED GRID SCALE FACTOR = 1.00001257
GRID DIST. DIVIDED BY COMBINED GRID SCALE FACTOR = GROUND DIST.

200 0 200 400 600

1" = 200'

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 14 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

KEWEENAW - WATERWAY
MICHIGAN

CONDITION SURVEY - SEPTEMBER 2006

DULUTH AREA OFFICE — DULUTH, MN

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

SCALE AS SHOWN 1 " = 200 '
CADD FILE NAME KWM10C06.DGN
DRAWING NUMBER
SHEET 1 OF 1

THIS PLAN ACCOMPANIES CONTRACT NO.
MODIFICATION NO.

INVITATION NO. DACW.

KW 7570/10-17