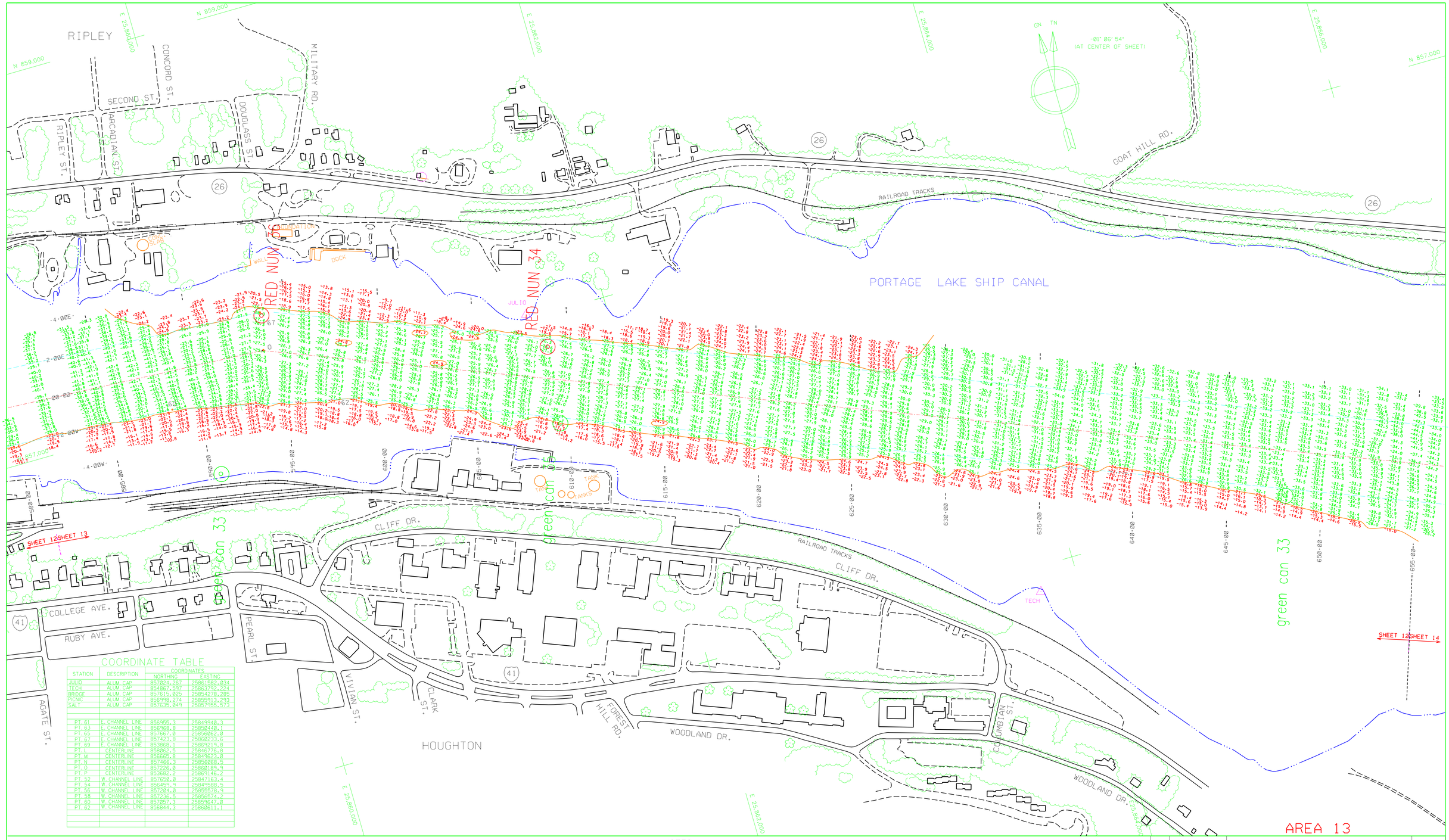


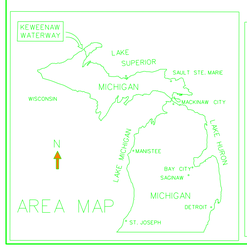
COORDINATE TABLE

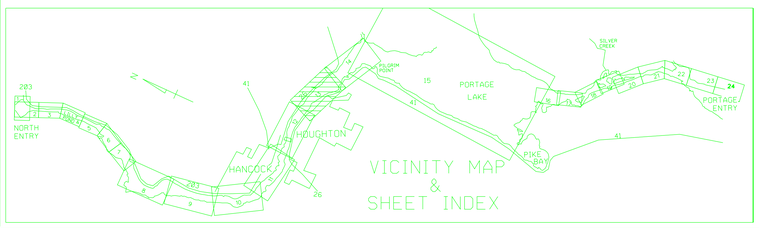
STATION	DESCRIPTION	COORDINATES NORTHING	COORDINATES EASTING
JULIO	ALUM. CAP	857024.267	25861582.024
TECH	ALUM. CAP	854867.597	25863792.224
BRIDGE	ALUM. CAP	857615.825	25854278.285
PICNIC	ALUM. CAP	856998.274	25855913.293
SALT	ALUM. CAP	857635.844	25857955.573
PT. 61	E. CHANNEL LINE	856955.3	25849340.3
PT. 63	E. CHANNEL LINE	856769.8	25850440.1
PT. 65	E. CHANNEL LINE	857667.0	25856062.0
PT. 67	E. CHANNEL LINE	857423.8	25860233.6
PT. 69	E. CHANNEL LINE	853868.1	25860219.8
PT. L	CENTERLINE	858062.5	25846776.8
PT. M	CENTERLINE	856665.8	25849623.0
PT. N	CENTERLINE	857466.3	25856068.5
PT. O	CENTERLINE	857226.0	25860189.9
PT. P	CENTERLINE	853682.2	25869146.2
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
PT. 58	W. CHANNEL LINE	857235.5	25855574.2
PT. 60	W. CHANNEL LINE	857057.3	25859647.0
PT. 62	W. CHANNEL LINE	856844.3	25860611.1

COMBINED GRID SCALE FACTOR = 1.00000924
GRID DIST. DIVIDED BY COMBINED GRID SCALE FACTOR = GROUND DIST.

200 0 200 400 600

1" = 200'





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 02 SEPT. 2010. USING D.G.P.S. POSITIONING, AN ODOM CV3 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, OTS BRANCH

KEWEENAW - WATERWAY
MICHIGAN

CONDITION SURVEY - SEPTEMBER 2010

DULUTH AREA OFFICE — DULUTH, MN

APPROVAL RECOMMENDED:*
CHIEF, OTS BRANCH — DATE

APPROVED:*
CHIEF, CONST.-OPNS. DIVN.

(* AS REQUIRED BY ENGINEERING CIRCULAR 1110-1-76)

SCALE AS SHOWN 1" = 200'
CADD FILE NAME KW213C10.DGN
DRAWING NUMBER
SHEET 1 OF 1

THIS PLAN ACCOMPANIES CONTRACT NO.
MODIFICATION NO.

INVITATION NO. DACW.

KW 7570/13-13