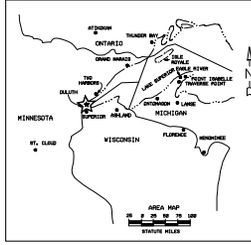

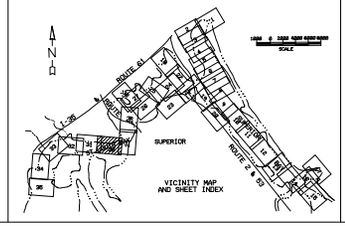

NOTES

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 23'

4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM. LAMBERT PROJECTION. NORTH ZONE (2201). 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. OOLTZ. PARTY CHIEF DURING 18 SEPT. 2003. USING D.G.P.S. POSITIONING. AN INNERSPACE 448 SOUNDER. AND A HYPACK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

** NOTES **

SC - Baseline Stationing for South Channel Baseline

Baseline _____

LEGEND

- HORIZONTAL CONTROL POINT
- DREDGING LIMIT TURNING POINT
- NO. CHANNEL LINE TURNING POINT
- NO. HARBOR LINE TURNING POINT
- HARBOR LINE
- CHANNEL LINE
- DREDGING LIMIT
- SHORELINE
- PROJECT DEPTH CONTOUR

SCALE IN FEET

100 0 100 200 300 400 500

THIS PLAN ACCOMPANIES CONTRACT NO.
MODIFICATION NO.

NO.	DATE	REVISION	BY

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

DULUTH-SUPERIOR HARBOR
MINNESOTA-WISCONSIN

CONDITION SURVEY- SEPTEMBER 2003

DULUTH AREA OFFICE — DULUTH, MN

DESIGNED BY:*
DRAWN BY:*
CHECKED BY:*
REVIEWED BY:*
SUBMITTED BY:* — APPROVAL RECOMMENDED:* — DATE
CHIEF, PROJ. OPNS. SEC. — CHIEF, OTS BRANCH
APPROVED:*
CHIEF, CONST.- OPNS. DIVN.
(* AS REQUIRED BY ENGINEERING CIRCULAR 1110-1-75)

SCALE AS SHOWN 1" = 100'
CADD FILE NAME da30C03.DGN
DRAWING NUMBER
SHEET 1 OF 1

INVITATION NO. DACW

DS7570/30-45