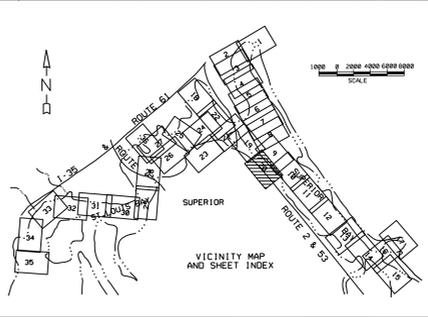
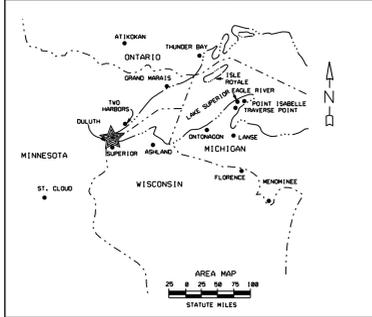




AREA 1920

AREA 20



**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 681.1 ABOVE MEAN SEA LEVEL, I.G.L.D. 1985.
- 3) PROJECT DEPTHS FOR THIS AREA ARE 27'
- 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. GOLTZ, PARTY CHIEF DURING 19 & 20 SEPT. 2008, USING D.G.P.S. POSITIONING, AN INNSPACE 448 SOUNDER, AND A HYPAK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

HB - Baseline Stationing for Howards Bay Baseline

**LEGEND**

- HORIZONTAL CONTROL POINT
- DREDGING LIMIT TURNING POINT
- CHANNEL LINE TURNING POINT
- HARBOR LINE TURNING POINT
- HARBOR LINE
- CHANNEL LINE
- DREDGING LIMIT
- SHORELINE
- PROJECT DEPTH CONTOUR

SCALE IN FEET

NO.	DATE	REVISION	BY
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
DESIGNED BY:	<b>DULUTH-SUPERIOR HARBOR MINNESOTA-WISCONSIN CONDITION SURVEY - SEPTEMBER 2008</b>		
DRAWN BY:			
CHECKED BY:			
REVIEWED BY:			
SUBMITTED BY:	APPROVAL RECOMMENDED:	DULUTH, MN	
CHIEF, PROJ. OPNS. SEC.	CHIEF, OTS BRANCH	P.E.	DATE
APPROVED:	SCALE AS SHOWN 1" = 100'		
CHIEF, CONST. OPNS. DIV.	CADD FILE NAME	DRAWING NUMBER	
* AS REQUIRED BY ENGINEERING CIRCDAR 1110-1-161		SHEET	OF