



**SURVEY CONTROL**

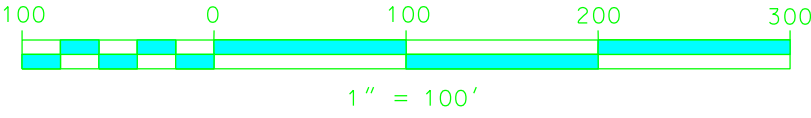
STA.	DESCRIPTION	COORDINATES	
		NORTHING	EASTING
POINT 1	CHAN. PT.	519050.4	2981052.6
POINT 2	CHAN. PT.	518289.7	2982130.0
POINT 3	CHAN. PT.	519631.3	2981344.4
POINT 4	CHAN. PT.	518830.5	2982233.3
POINT 5	CHAN. PT.	519513.8	2981720.4
POINT 6	CHAN. PT.	519261.0	2982315.6
POINT 7	CHAN. PT.	519598.2	2982008.3
TH-100	BRASS DISK	517624.58	2981527.39
TH-101	BRASS DISK	518077.46	2982272.66
TH-102	BRASS DISK	518699.64	2982545.85
AGATE BAY	BRASS DISK	518655.56	2982522.84
BD-1	BRASS DISK	518804.66	2982536.34
BD-5	BRASS DISK	519749.90	2982207.08
BD-8	BRASS DISK	518959.81	2982677.92
BD-16	BRASS DISK	518821.36	2982600.15
DIVE	BRASS DISK	517887.55	2979397.54
LUNK	BRASS DISK	518105.47	2980128.58
NAV. AID	ENTRY LIGHT	517624.58	2981527.46
NAV. AID	GREEN LIGHT	518102.33	2980123.82

**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 - 1, G.L.D. 1985.
- 3) PROJECT DEPTHS FOR THIS AREA ARE 28x30 FT.
- 4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2281), 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 26 AUG 2010 USING D.G.P.S. POSITIONING, AN ODOM C/V SOUNDER, AND A RYFACK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

**LAKE SUPERIOR**

COMBINED GRID SCALE FACTOR = 1.00000459  
 GRID DIST. DIVIDED BY COMBINED GRID SCALE FACTOR = GROUND DIST.



HORIZONTAL DATUM BASED ON MINNESOTA STATE PLANE COORDINATE SYSTEM, MINNESOTA LAMBERT PROJECTION, NORTH ZONE, NORTH AMERICAN DATUM 1983 (NAD 83), US FEET

**LEGEND**

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

NO.	DATE	REVISION	BY

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

**TWO HARBORS MINNESOTA**  
**CONDITION SURVEY - AUGUST 2010**

DESIGNED BY:	MJH
DRAWN BY:	RJB
CHECKED BY:	RJB
REVIEWED BY:	
SUBMITTED BY:	
CHIEF, PROJ. OPNS. SEC.	
APPROVED:	
CHIEF, CONSTRUCTION & OPERATIONS DIVISION P.E.	

APPROVAL RECOMMENDED:		P.E.	DATE
CHIEF, OPERATIONS & MAINTENANCE BR.			

SCALE AS SHOWN 1" = 100'  
 CADD FILE NAME: TWHRBSCT0.dgn  
 DRAWING NUMBER: SHEET 1 OF 1