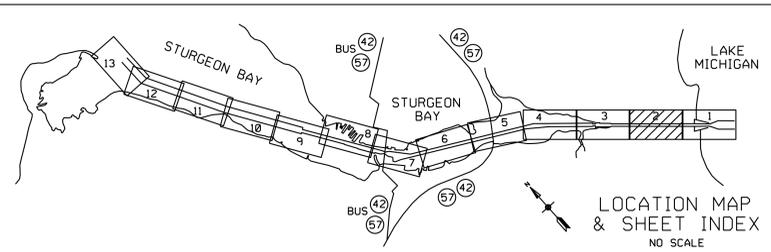


| STA. | DESCRIPTION | COORDINATES | |
|------|----------------|-------------|-------------|
| | | NORTHING | EASTING |
| 9 | CHANNEL PT. | 361694.805 | 2665753.696 |
| 10 | DD. | 361791.425 | 2665840.670 |
| 11 | DD. | 365862.460 | 266123.861 |
| 12 | DD. | 365959.070 | 2661210.835 |
| B | CENTERLINE PT. | 361743.115 | 2665797.182 |
| C | DD. | 366626.551 | 2660372.176 |

K.A.O.
38-C6
317
21MAY13



- LEGEND:**
- PROJECT LIMITS
 - △ GPS CONTROL MONUMENT
 - △ BRONZE DISK SET IN CONCRETE
 - PROJECT LIMIT POINT

NOTES:

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 AT THAT TIME.

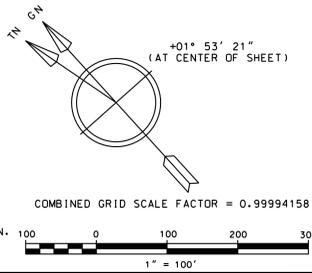
GRID SYSTEM IS ON LAMBERT PROJECTION, WISCONSIN STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983, US SURVEY FOOT.

SOUNDINGS ARE IN FEET AND ARE REFERRED TO LOW WATER DATUM, 577.5 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI, QUEBEC (INTERNATIONAL GREAT LAKES DATUM 1985).

PROJECT DEPTH FOR THIS AREA IS 22.0'.

NOAA GAUGE LOCATED AT STURGEON BAY, WI WAS USED TO DETERMINE THE WATER LEVEL.

HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS), THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY U.S. COAST GUARD DIFFERENTIAL BROADCAST STATIONS. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION.



THE SURVEY SHOWN WAS CONDUCTED BY THE LAKE MICHIGAN AREA OFFICE, KEWAUNEE SUB OFFICE SURVEY PARTY ON 13 MAY 2013, USING A TRIMBLE DSM 232 GPS, AN ODOM CV300 SOUNDER, AN INNSPACE 3" 208KHZ TRANSDUCER, AND A HYPACK HYDROGRAPHIC SURVEY SYSTEM.

| NO. | DATE | REVISION | BY |
|-----|------|----------|----|
| | | | |

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

STURGEON BAY & LAKE MICHIGAN SHIP CANAL, WISCONSIN
CONDITION OF CHANNEL - MAY 2013
LAKE MICHIGAN AREA OFFICE

| | | |
|----------------------------------|-----------------------|------|
| DRAWN BY R. D. M | APPROVAL RECOMMENDED: | DATE |
| REVIEWED BY K. J. K. | | |
| CHECKED BY R. L. S. | | |
| REVIEWED: | | |
| CHIEF, LAKE MICHIGAN AREA OFFICE | | |
| SUBMITTED: | | |
| CHIEF, PROJ. ENGR. SECTION | CHIEF, OPS. BRANCH | |
| APPROVED | | |

SCALE 1" = 100'
DRAWING NUMBER
SHEET 2 OF 13 sb021305c