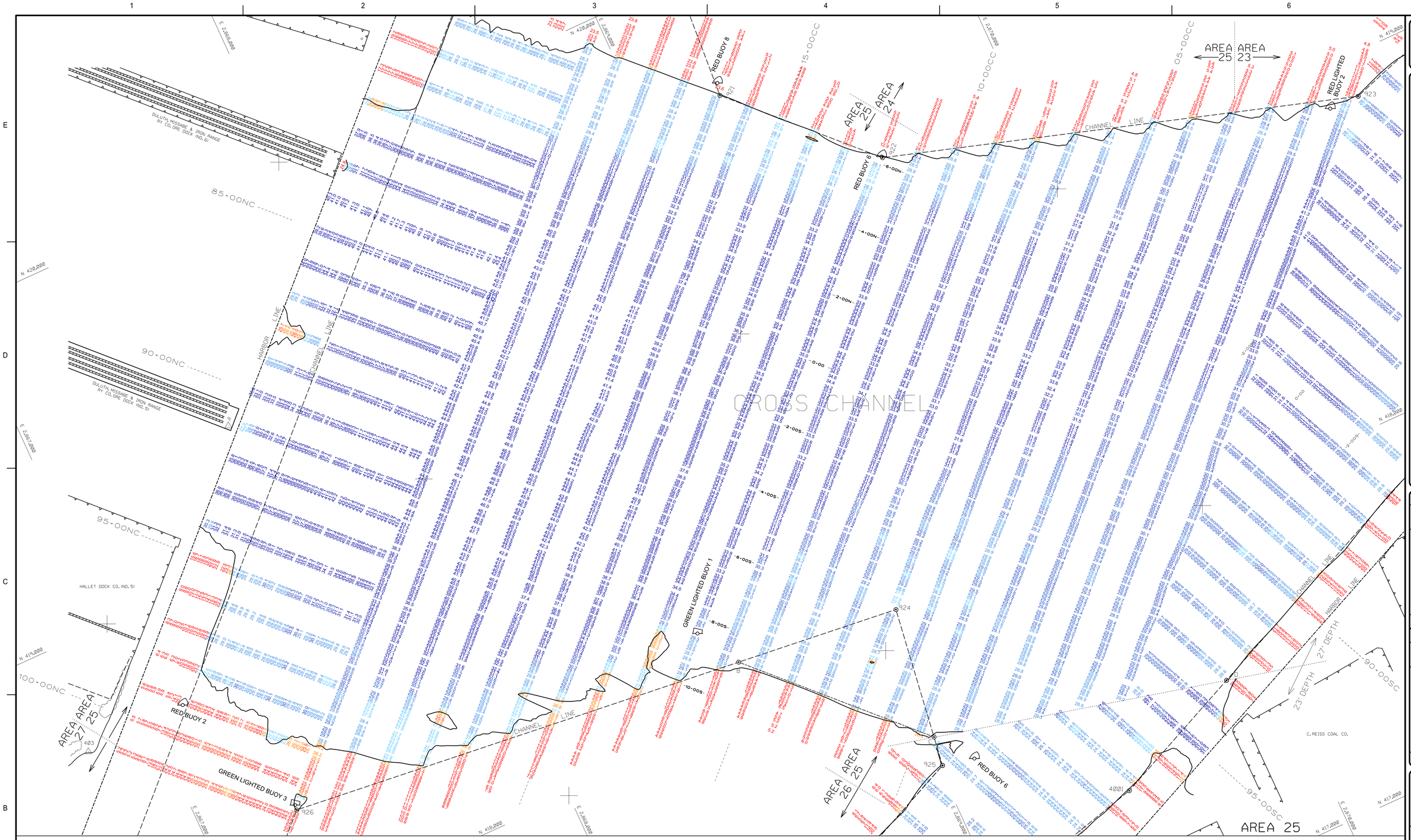
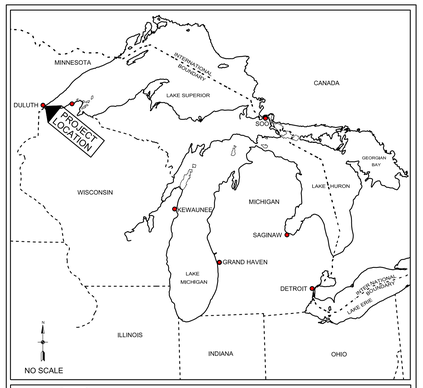
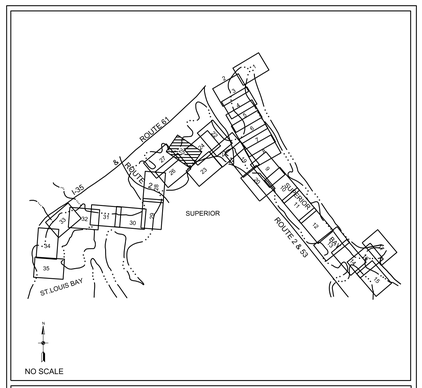



US Army Corps of Engineers Detroit District

LOCATION MAP




US Army Corps of Engineers Detroit District

SHEET INDEX

| 23' LEGEND | 27' LEGEND |
|---|---|
| 0.0' | 0.0' |
| 22.0' | 26.0' |
| 23.0' | 27.0' |
| 24.0' | 28.0' |
| 25.0' | 29.0' |
| 26.0' | 30.0' |
| 60.0' | 60.0' |

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) SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM ELEVATION 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED NOAA GAGE LOCATED AT DULUTH, MINNESOTA (9099064). DEPTHS ARE MEASURED USING A ROSS LABORATORIES MODEL 825C PORTABLE SURVEY SOUNDER.

3) HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY THE U.S. COAST GUARD DIFFERENTIAL BROADCAST STATION LOCATED AT WISCONSIN POINT, SUPERIOR, WISCONSIN.

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 SURVEY FOOT.

5) THE LOCATION OF NAVIGATION BUOYS REPRESENTS THEIR GENERAL LOCATION AND CANNOT BE CONSIDERED FOR NAVIGATION.

6) THE SURVEY SHOWN WAS CONDUCTED BY A. ALBERTSON ON 13 SEPT 2016 AND 14 SEPT 2016.

7) THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING CHARTS AND ARE OUTDATED AND INACCURATE.

8) PROJECT DEPTHS FOR THIS AREA ARE 23' AND 27'.

LEGEND

- HORIZONTAL CONTROL POINT
- CHANNEL LINE TURNING POINT
- CHANNEL LINE
- DREDGING LIMIT
- SHORELINE
- PROJECT DEPTH CONTOUR
- X+XXSF = BASELINE STATIONING FOR SUPERIOR FRONT CHANNEL

N

100 0 100 200 300

1" = 100'

US Army Corps of Engineers

| MARK | DESCRIPTION | DATE | APPR. | MARK | DESCRIPTION | DATE | APPR. |
|---|---|---|---|---|---|---|---|

| | |
|---|---|
| SURVEYED BY: A/A | DATE OF SURVEY: 12-Sept-2016 |
| DWN BY: A/A | SUBMITTED BY: |
| REVIEWED BY: | CONTRACT NO.: |
| APPROVED BY: | IMAGE DATE: |
| PLOT SCALE: 1" = 100' | DRAWING DATE: 03-OCT-2016 |
| SIZE: A | FILE NAME: VH101_2016_1-25.dgn |
| SCALE: | IMAGE SOURCE: |

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
DETROIT, MI

DULUTH AREA OFFICE
800 LAKE AVENUE SOUTH
DULUTH, MN 55802

# DULUTH SUPERIOR HARBOR
# MINNESOTA / WISCONSIN

CONDITION OF CHANNEL
SEPTEMBER 2016

SHEET IDENTIFICATION
VH101
SHEET 25 OF 35