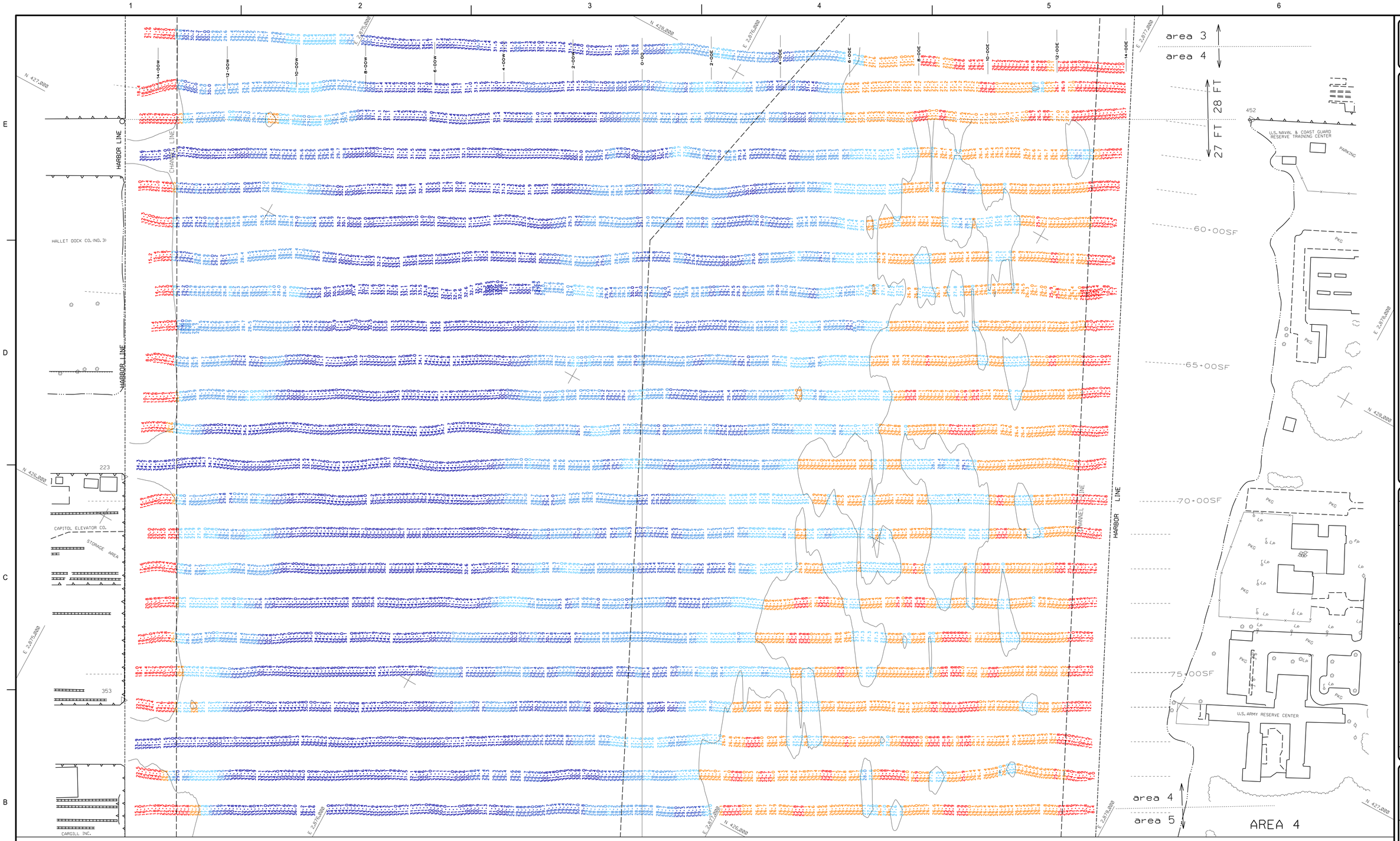
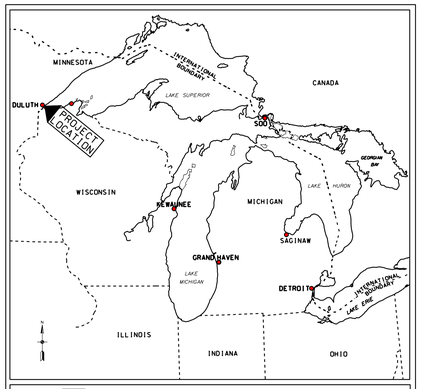
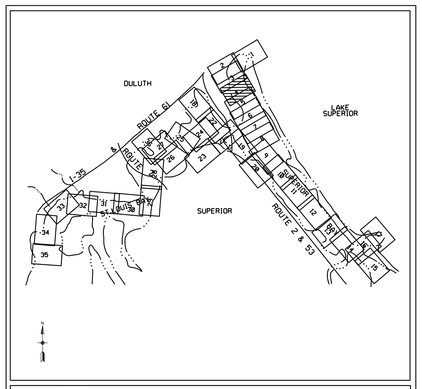




US Army Corps of Engineers Detroit District

LOCATION MAP

0 25 50 75 100
SCALE OF MILES



US Army Corps of Engineers Detroit District

SHEET INDEX

0 2000 4000 6000 8000
SCALE (FT)

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, IGLD 1985.
GAGE STATION IS NOAA #9064 AT THE DULUTH VESSEL YARD - SET AND MAINTAINED 6 MINUTE INTERVAL READINGS IGLD85 601.1.

3) PROJECT DEPTHS FOR THIS AREA ARE 27.0' AND 28.0'.

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 THE GENERAL LOCATION ON THE DATE OF THE SURVEY AND CANNOT BE CONSIDERED FOR NAVIGATION.

6) THE SURVEY SHOWN WAS CONDUCTED BY K. COOK & A. ALBERTSON ON 19 JUNE 2015 AND 24 JUNE 2015 USING DGPS POSITIONING. A ROSS 825C SOUNDER AND A HYPACK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

LEGEND

- horizontal control point
- no. — channel line turning point
- channel line
- shoreline
- project depth contour
- Baseline
- X+XXSF — Baseline Stationing for Superior Front Baseline

28' LEGEND

- 0.0'
- 27.0'
- 28.0'
- 29.0'
- 30.0'
- 31.0'
- 60.0'

27' LEGEND

- 0.0'
- 26.0'
- 27.0'
- 28.0'
- 29.0'
- 30.0'
- 60.0'

N

0 100' 200'

US Army Corps of Engineers

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

SURVEYOR: ERC
REVIEWED BY:
APPROVED BY:
PLOT SCALE: 1" = 100'
PLOT DATE:
DATE OF SURVEY: 23-Jun-15
SUBMITTED BY:
CONTRACT NO.:
IMAGE SOURCE:
DRAWING DATE: 19-Aug-15
FILE NAME: DULUTH15154.dgn

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

DULUTH AREA OFFICE
600 LAKE AVENUE SOUTH
DULUTH, MN 55802

DULUTH SUPERIOR HARBOR
MINNESOTA / WISCONSIN

CONDITION OF CHANNEL
JUNE 2015

SHEET IDENTIFICATION
VH101
SHEET 4 OF 35