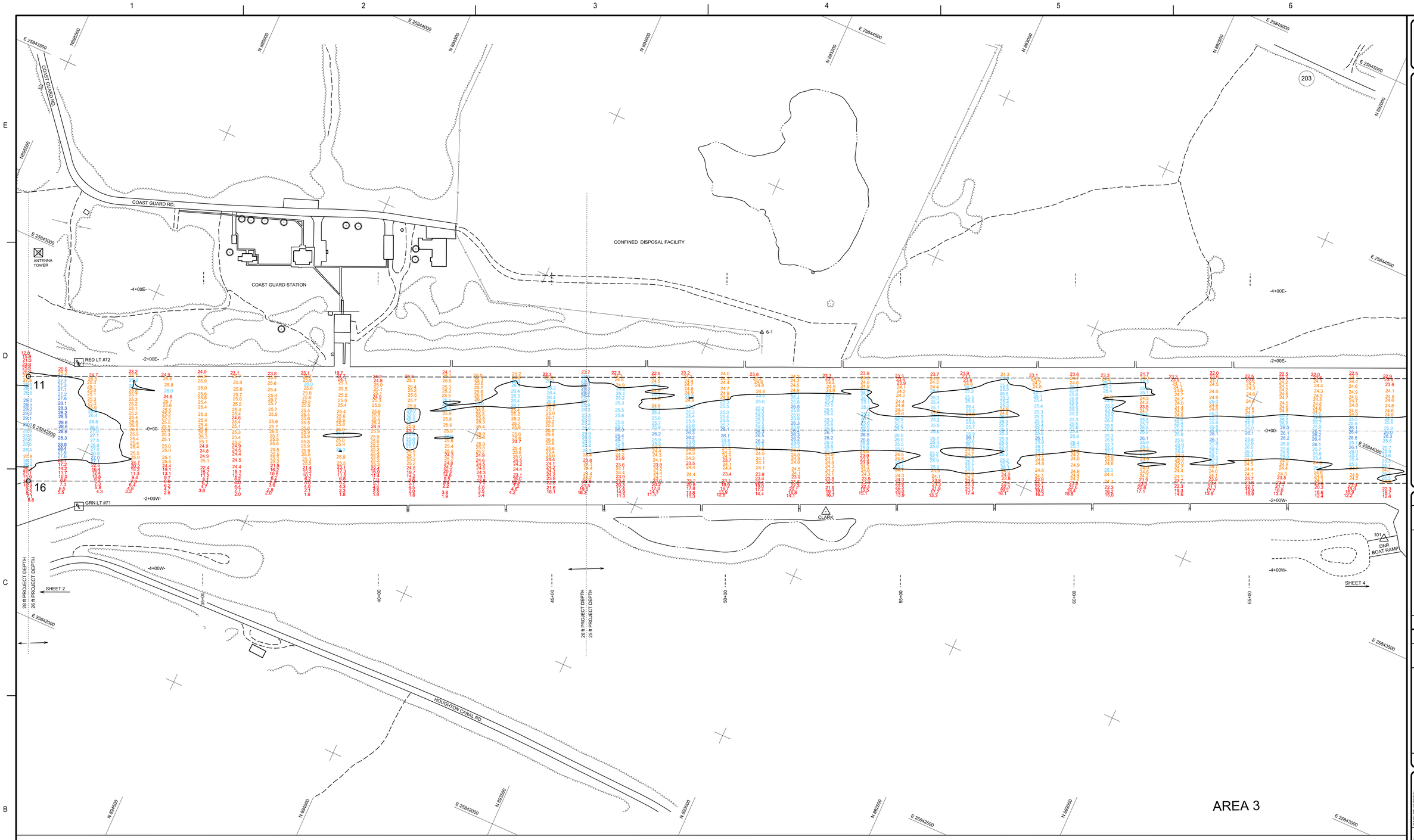

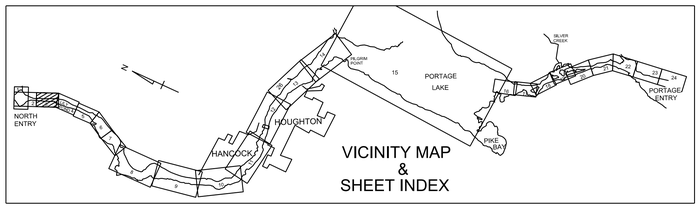


NOTES

1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON JULY 23, 2018 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.
2. SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM (LWD) ELEVATION IS 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS WERE OBTAINED WITH RTK GPS VALUES. DEPTHS ARE MEASURED USING A ROSS 825B SINGLE BEAM DEPTH SOUNDER.
3. HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) CORRECTIONS FROM A BASE STATION LOCATED AT US ARMY CORPS OF ENGINEERS (USACE) CONTROL POINT 103, A BRASS DISK STAMPED "NEWMAN 1991 SET IN CONCRETE AT THE BASE OF NAVIGATION AID NUMBER 68 AT THE END OF A PIER, ON THE SOUTH EAST SIDE OF LILY POND. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POS/MV VER. 4.0.HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) CORRECTIONS FROM A BASE STATION LOCATED AT US ARMY CORPS OF ENGINEERS (USACE) CONTROL POINT 103, A BRASS DISK STAMPED "NEWMAN 1991 SET IN CONCRETE AT THE BASE OF NAVIGATION AID NUMBER 68 AT THE END OF A PIER ON THE SOUTH EAST SIDE OF LILY POND. THE GPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POS/MV VER. 4.0.
4. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (2111), NORTH AMERICAN DATUM (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
5. THE PROJECT DEPTHS FOR THIS AREA ARE 25' AND 26'.

LEGEND

- HORIZONTAL CONTROL POINT
- CHANNEL LINE TURNING POINT
- CHANNEL LINE
- BASELINE
- SHORELINE
- CONTOUR

25.0' LEGEND: 0.0', 23.0', 24.0', 25.0', 26.0', 27.0', 28.0', 29.0', 50.0'

26.0' LEGEND: 0.0', 24.0', 25.0', 26.0', 27.0', 28.0', 29.0', 30.0', 50.0'

0 100' 200'

COORDINATE TABLE

| STA. | DESCRIPTION | COORDINATES | |
|---|---|---|---|
| | | NORTHING | EASTING |
| DOROCHER | ALUM. CAP | 895479.33 | 25841747.91 |
| 2063 | ALUM. CAP | 896113.40 | 25842774.68 |
| STOWE | BRASS DISK | 897764.02 | 25841056.73 |
| CLARK | ALUM. CAP | 892090.65 | 25843206.36 |
| LHTHSE | NAVIG. AID | 898030 | 25841643 |
| RED LT#70 | NAVIG. AID | 897799 | 25841120 |
| ANT TOWER | NAVIG. AID | 895355 | 25842966 |
| POINT 1 | E. CHANNEL LINE | 898420.6 | 25841673.1 |
| POINT 3 | E. CHANNEL LINE | 898084.0 | 25841543.2 |
| POINT 5 | E. CHANNEL LINE | 898060.9 | 25841552.9 |
| POINT 7 | E. CHANNEL LINE | 897582.6 | 25842025.0 |
| POINT 9 | E. CHANNEL LINE | 896475.9 | 25842489.6 |
| POINT 11 | E. CHANNEL LINE | 895236.9 | 25842631.2 |
| POINT A | CENTER LINE | 898863.7 | 25840944.7 |
| POINT B | CENTER LINE | 895175.5 | 25842493.2 |
| POINT 2 | W. CHANNEL LINE | 898052.6 | 25840504.2 |
| POINT 4 | W. CHANNEL LINE | 897865.6 | 25840986.7 |
| POINT 6 | W. CHANNEL LINE | 897966.4 | 25841025.7 |
| POINT 8 | W. CHANNEL LINE | 897897.7 | 25841202.9 |
| POINT 10 | W. CHANNEL LINE | 897691.1 | 25841122.9 |
| POINT 12 | W. CHANNEL LINE | 897195.4 | 25841102.8 |
| POINT 14 | W. CHANNEL LINE | 895115.0 | 25842357.0 |
| POINT 16 | W. CHANNEL LINE | 893552.4 | 25843005.2 |

US Army Corps of Engineers®

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

SURVEYOR: ATA / KBC
REVIEWED BY: MAS
APPROVED BY:
PLOT SCALE: 1" = 100'
SIZE: ARCH E
DWG BY: KBC
IMAGE DATE:
IMAGE SOURCE:
DATE OF SURVEY: 23 Jul 2018
SUBMITTED BY:
CONTRACT NO.:
DRAWING DATE: 30 Jul 2018
FILE NAME: KWW03103-2.dgn

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

DULUTH AREA OFFICE
600 LAKE AVENUE SOUTH
DULUTH, MN 55802

KEWEENAW WATERWAY
MICHIGAN
CONDITION OF CHANNEL
JULY 2018

SHEET IDENTIFICATION
KWW 03
SHEET 3 OF 24