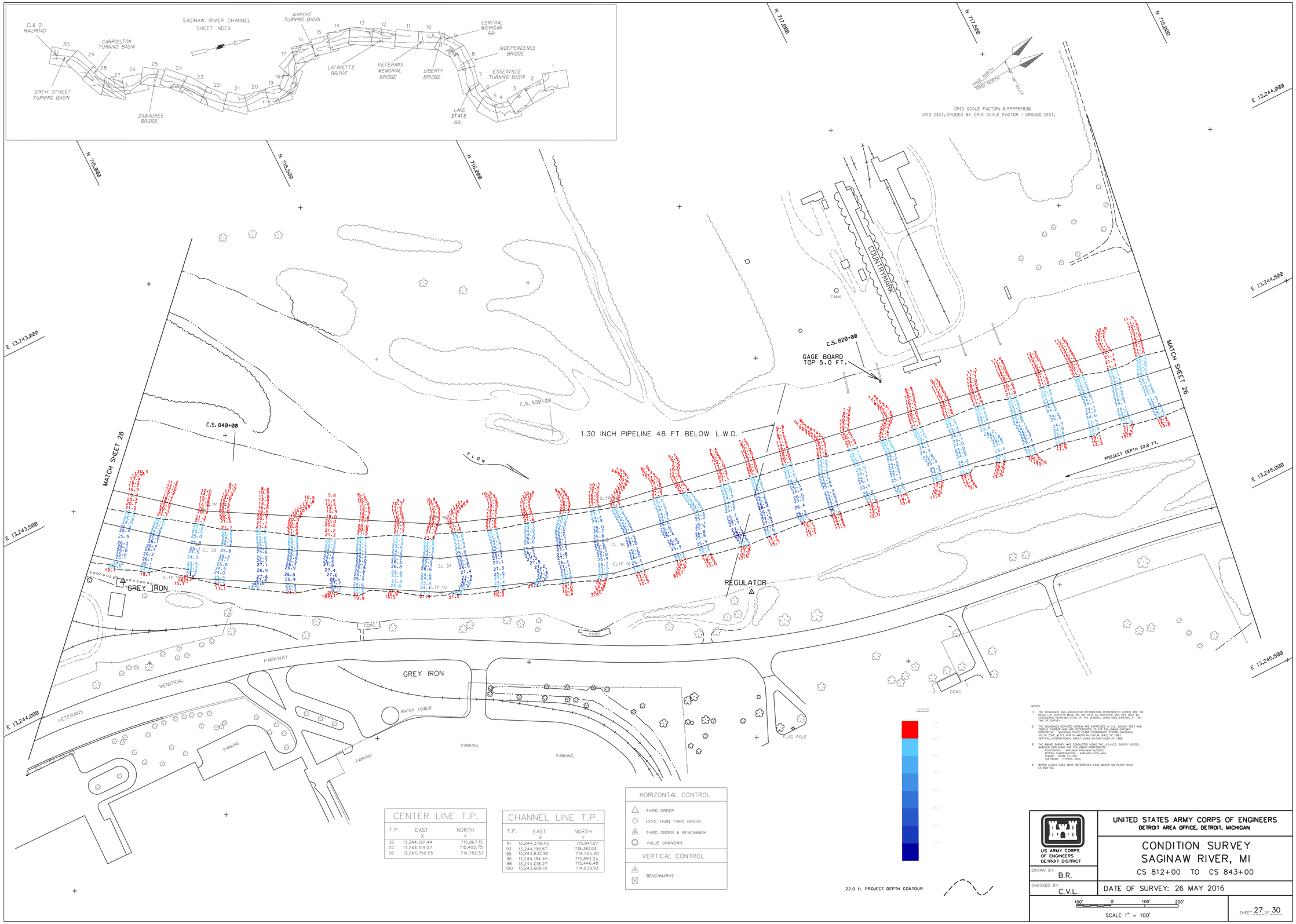


NOTES:

1) THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULT OF SURVEYS MADE ON THE DATE AS INDICATED AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.

2) THE SOUNDINGS DEPICTED HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND TENTHS THEREOF AND ARE REFERENCED TO THE FOLLOWING DATUMS: HORIZONTAL: MICHIGAN STATE PLANE COORDINATE SYSTEM, MICHIGAN SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983. VERTICAL: INTERNATIONAL GREAT LAKES DATUM (GLD) OF 1985.

3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL WHEELER EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MV4 W/CORPS
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: ODOM CV-100
SOFTWARE: HYPACK 2013

4) WATER LEVELS USED WERE REFERENCED GAGE BOARD ON PILING NEAR CS 820+00.

## CENTER LINE T.P.

| T.P. | EAST X | NORTH Y |
|---|---|---|
| 36 | 13,244,281.44 | 715,867.15 |
| 37 | 13,244,109.07 | 715,403.75 |
| 38 | 13,243,750.55 | 714,782.57 |

## CHANNEL LINE T.P.

| T.P. | EAST X | NORTH Y |
|---|---|---|
| 91 | 13,244,378.43 | 715,841.07 |
| 93 | 13,244,199.87 | 715,361.03 |
| 95 | 13,243,832.90 | 714,725.20 |
| 96 | 13,244,184.45 | 715,893.24 |
| 98 | 13,244,018.27 | 715,446.48 |
| 100 | 13,243,668.19 | 714,839.93 |

## HORIZONTAL CONTROL

- THIRD ORDER
- LESS THAN THIRD ORDER
- THIRD ORDER & BENCHMARK
- VALUE UNKNOWN

## VERTICAL CONTROL

- BENCHMARKS

US ARMY CORPS OF ENGINEERS DETROIT DISTRICT

UNITED STATES ARMY CORPS OF ENGINEERS
DETROIT AREA OFFICE, DETROIT, MICHIGAN

# CONDITION SURVEY
# SAGINAW RIVER, MI

CS 812+00 TO CS 843+00

DRAWN BY: B.R.

CHECKED BY: C.V.L.

DATE OF SURVEY: 26 MAY 2016

100' 0' 100' 200'
SCALE 1" = 100'