SURVEY NOTES:

1) HORIZONTAL DATUM:
NAD83 MISSOURI EAST 2401, US SURVEY FOOT

2) VERTICAL DATUM:
NAVD88, FOOT

3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.

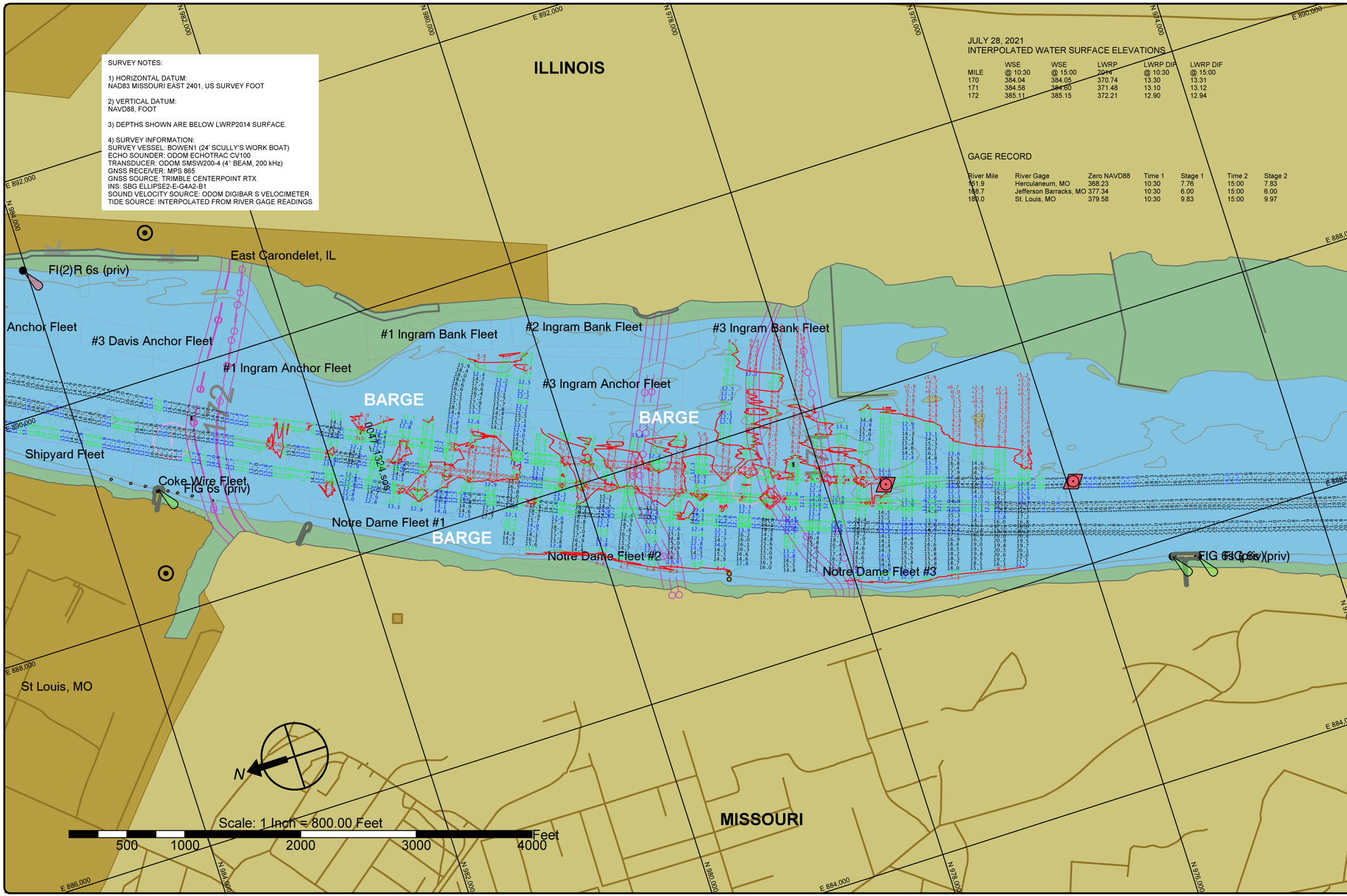
4) SURVEY INFORMATION:
SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)
ECHO SOUNDER: ODOM ECHOTRAC CV100
TRANSDUCER: ODOM SMSW200-4 (4° BEAM, 200 kHz)
GNSS RECEIVER: MPS 865
GNSS SOURCE: TRIMBLE CENTERPOINT RTX
INS: SBG ELLIPSE2-E-G4A2-B1
SOUND VELOCITY SOURCE: ODOM DIGIBAR S VELOCIMETER
TIDE SOURCE: INTERPOLATED FROM RIVER GAGE READINGS

JULY 28, 2021
INTERPOLATED WATER SURFACE ELEVATIONS

| MILE | WSE @ 10:30 | WSE @ 15:00 | LWRP 2014 | LWRP DIF @ 10:30 | LWRP DIF @ 15:00 |
|---|---|---|---|---|---|
| 170 | 384.04 | 384.05 | 370.74 | 13.30 | 13.31 |
| 171 | 384.58 | 384.60 | 371.48 | 13.10 | 13.12 |
| 172 | 385.11 | 385.15 | 372.21 | 12.90 | 12.94 |

GAGE RECORD

| River Mile | River Gage | Zero NAVD88 | Time 1 | Stage 1 | Time 2 | Stage 2 |
|---|---|---|---|---|---|---|
| 151.9 | Herculaneum, MO | 368.23 | 10:30 | 7.76 | 15:00 | 7.83 |
| 168.7 | Jefferson Barracks, MO | 377.34 | 10:30 | 6.00 | 15:00 | 6.00 |
| 180.0 | St. Louis, MO | 379.58 | 10:30 | 9.83 | 15:00 | 9.97 |




St. Louis District

DATES OF SURVEY:
JULY 28, 2021

FILE NO.: 171G2821
REQUEST NO.: W912P921P0114

SCALE:
1" = 800' (ANSI B)

FIELD BOOKS:

Approved: FIELD CARTOGRAPHER
Approved: CIVIL ENGINEERING TECHNICIAN
Approved: ASST. CHIEF OF SURVEY
Approved: CHIEF OF SURVEY
Date:

U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY:
BOWEN ENGINEERING AND SURVEYING, P.C.
2121 MEGAN DRIVE
CAPE GIRARDEAU, MO 63701

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

PRE DREDGE SURVEY
RIVER MILES 171.7 - 170.7

SHEET NO.
1 OF 1