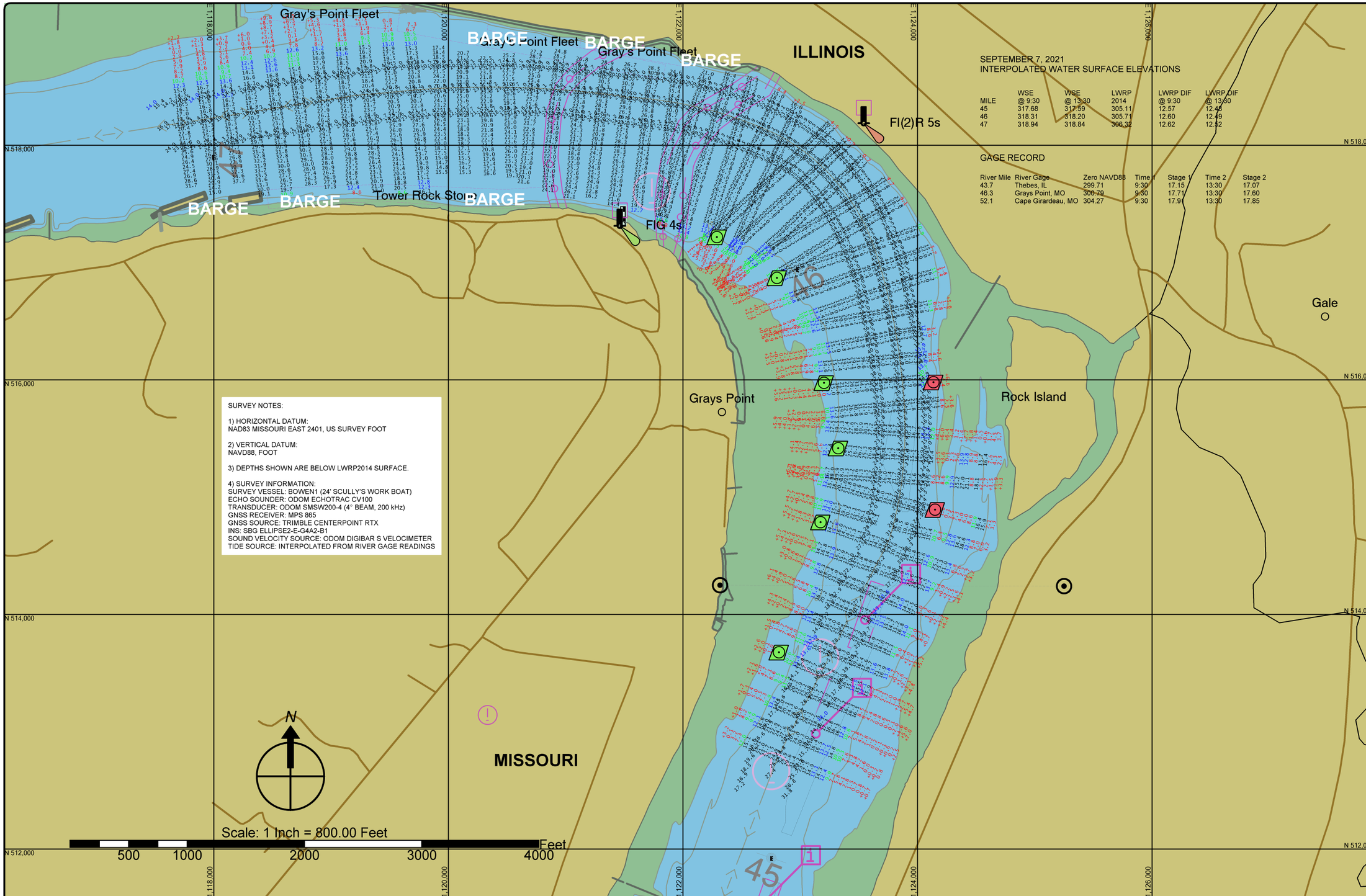

SEPTEMBER 7, 2021
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:30	WSE @ 13:30	LWRP 2014	LWRP DIF @ 9:30	LWRP DIF @ 13:30
45	317.68	317.59	305.11	12.57	12.48
46	318.31	318.20	305.71	12.60	12.49
47	318.94	318.84	306.32	12.62	12.52

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
43.7	Thebes, IL	299.71	9:30	17.15	13:30	17.07
46.3	Grays Point, MO	300.79	9:30	17.71	13:30	17.60
52.1	Cape Girardeau, MO	304.27	9:30	17.91	13:30	17.85

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

St. Louis District

DATES OF SURVEY:
SEPTEMBER 7, 2021

FILE NO.: 046I0721
REQUEST NO.: W912P921F0114

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 47.0 - 45.2

SHEET NO.
1 OF 1