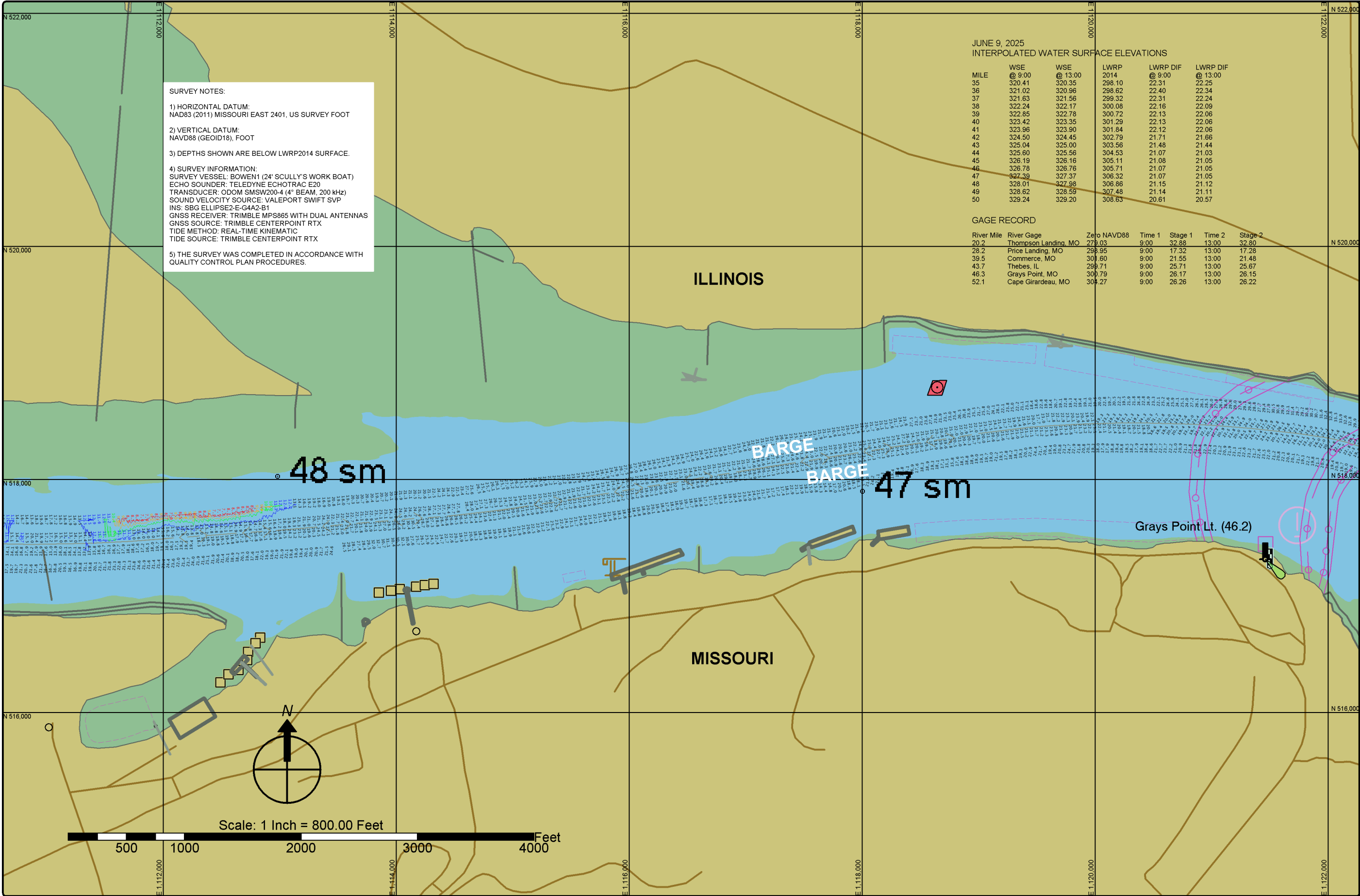




SURVEY NOTES:

1) HORIZONTAL DATUM:
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT

2) VERTICAL DATUM:
NAVD88 (GEOID18), FOOT

3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.

4) SURVEY INFORMATION:
SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)
ECHO SOUNDER: TELEDYNE ECHOTRAC E20
TRANSDUCER: ODOM SMSW200-4 (4" BEAM, 200 KHz)
SOUND VELOCITY SOURCE: VALEPORT SWIFT SVP
INS: SBG ELLIPSE2-E-G4A2-B1
GNSS RECEIVER: TRIMBLE MPS865 WITH DUAL ANTENNAS
GNSS SOURCE: TRIMBLE CENTERPOINT RTX
TIDE METHOD: REAL-TIME KINEMATIC
TIDE SOURCE: TRIMBLE CENTERPOINT RTX

5) THE SURVEY WAS COMPLETED IN ACCORDANCE WITH
QUALITY CONTROL PLAN PROCEDURES.

JUNE 9, 2025
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
35	320.41	320.35	298.10	22.31	22.25
36	321.02	320.96	298.62	22.40	22.34
37	321.63	321.56	299.32	22.31	22.24
38	322.24	322.17	300.08	22.16	22.09
39	322.85	322.78	300.72	22.13	22.06
40	323.42	323.35	301.29	22.13	22.06
41	323.96	323.90	301.84	22.12	22.06
42	324.50	324.45	302.79	21.71	21.66
43	325.04	325.00	303.56	21.48	21.44
44	325.60	325.56	304.53	21.07	21.03
45	326.19	326.16	305.11	21.08	21.05
46	326.78	326.76	305.71	21.07	21.05
47	327.39	327.37	306.32	21.07	21.05
48	328.01	327.98	306.86	21.15	21.12
49	328.62	328.59	307.48	21.14	21.11
50	329.24	329.20	308.63	20.61	20.57

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
20.2	Thompson Landing, MO	279.03	9:00	32.88	13:00	32.80
28.2	Price Landing, MO	298.95	9:00	17.32	13:00	17.28
39.5	Commerce, MO	301.60	9:00	21.55	13:00	21.48
43.7	Thebes, IL	299.71	9:00	25.71	13:00	25.67
46.3	Grays Point, MO	300.79	9:00	26.17	13:00	26.15
52.1	Cape Girardeau, MO	304.27	9:00	26.26	13:00	26.22



St. Louis District

DATES OF SURVEY:
JUNE 9, 2025

FILE NO.: 050_025F0925
REQUEST NO.: W912P95F0006

SCALE:
1" = 800' (ANSI B)

FIELD BOOKS:

Approved: FIELD CARTOGRAPHER

Approved: CIVIL ENGINEERING TECHNICIAN

Approved: ASST. CHIEF OF SURVEY

Approved: CHIEF OF SURVEY

Date:

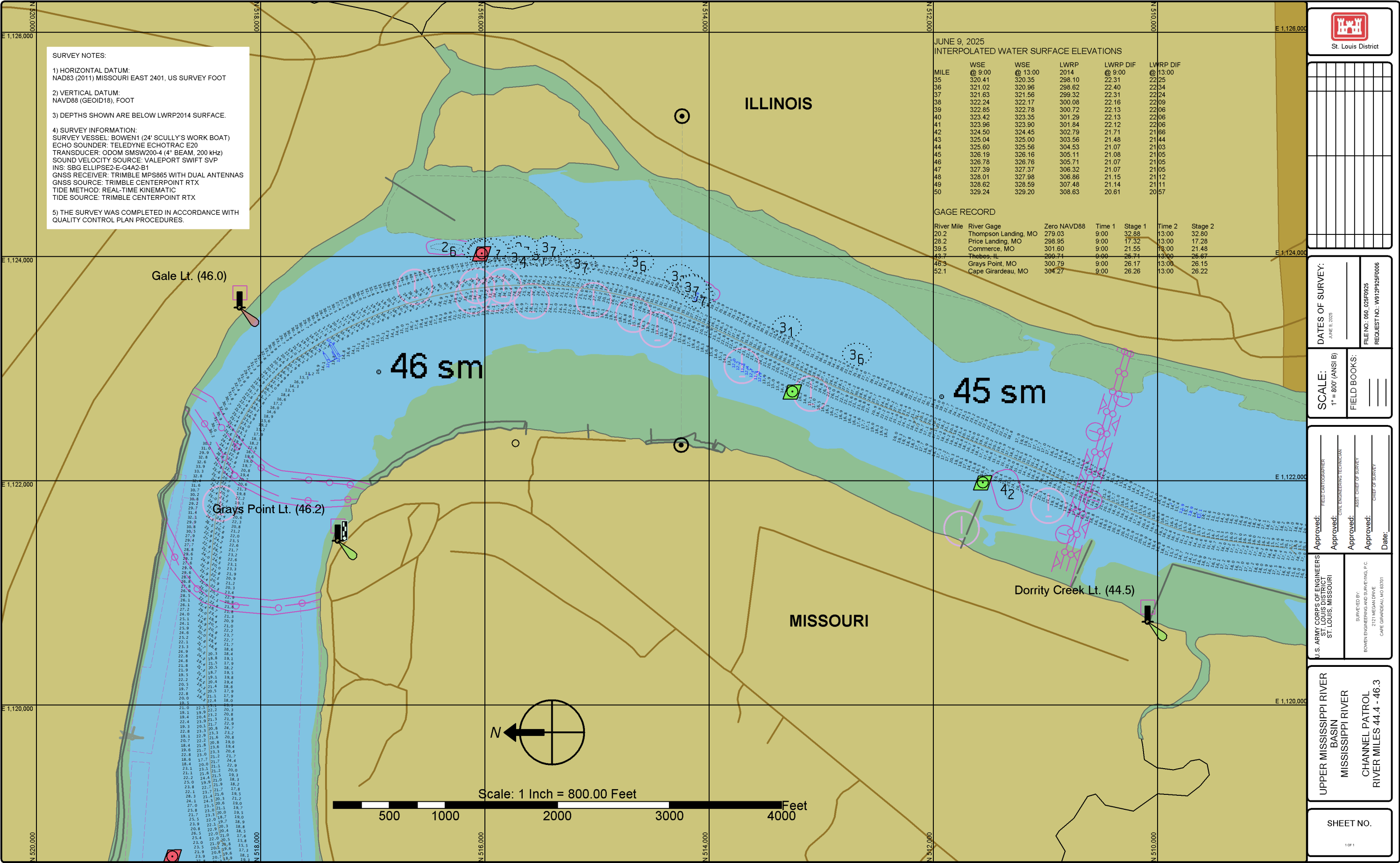
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

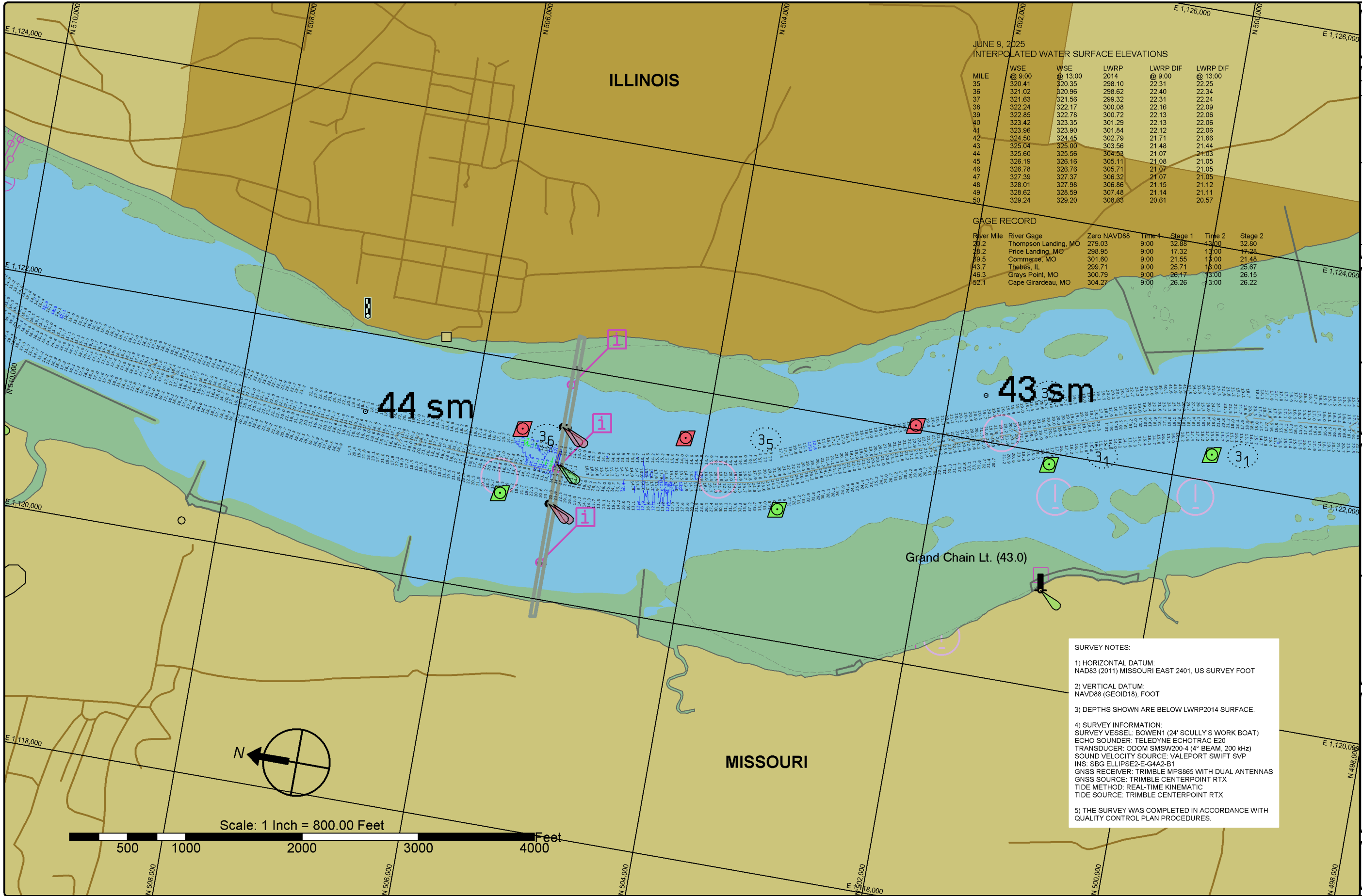
SURVEYED BY:
BOWEN ENGINEERING AND SURVEYING, P.C.
2121 MEGAN DRIVE
CAPE GIRARDEAU, MO 63701

UPPER MISSISSIPPI RIVER
BASIN
MISSISSIPPI RIVER
CHANNEL PATROL
RIVER MILES 46.3 - 48.3

SHEET NO.

1 OF 1





JUNE 9, 2025
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
35	320.41	320.35	298.10	22.31	22.25
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SURVEY NOTES:

- 1) HORIZONTAL DATUM:
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
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TIDE METHOD: REAL-TIME KINEMATIC
TIDE SOURCE: TRIMBLE CENTERPOINT RTX
- 5) THE SURVEY WAS COMPLETED IN ACCORDANCE WITH
QUALITY CONTROL PLAN PROCEDURES.



St. Louis District

DATES OF SURVEY:
JUNE 9, 2025

FILE NO: 050_025F0925
REQUEST NO: W912P925F0006

SCALE:
1" = 800' (ANSI B)

FIELD BOOKS:

Approved: FIELD CARTOGRAPHER

Approved: CIVIL ENGINEERING TECHNICIAN

Approved: ASST. CHIEF OF SURVEY

Approved: CHIEF OF SURVEY
Date: _____

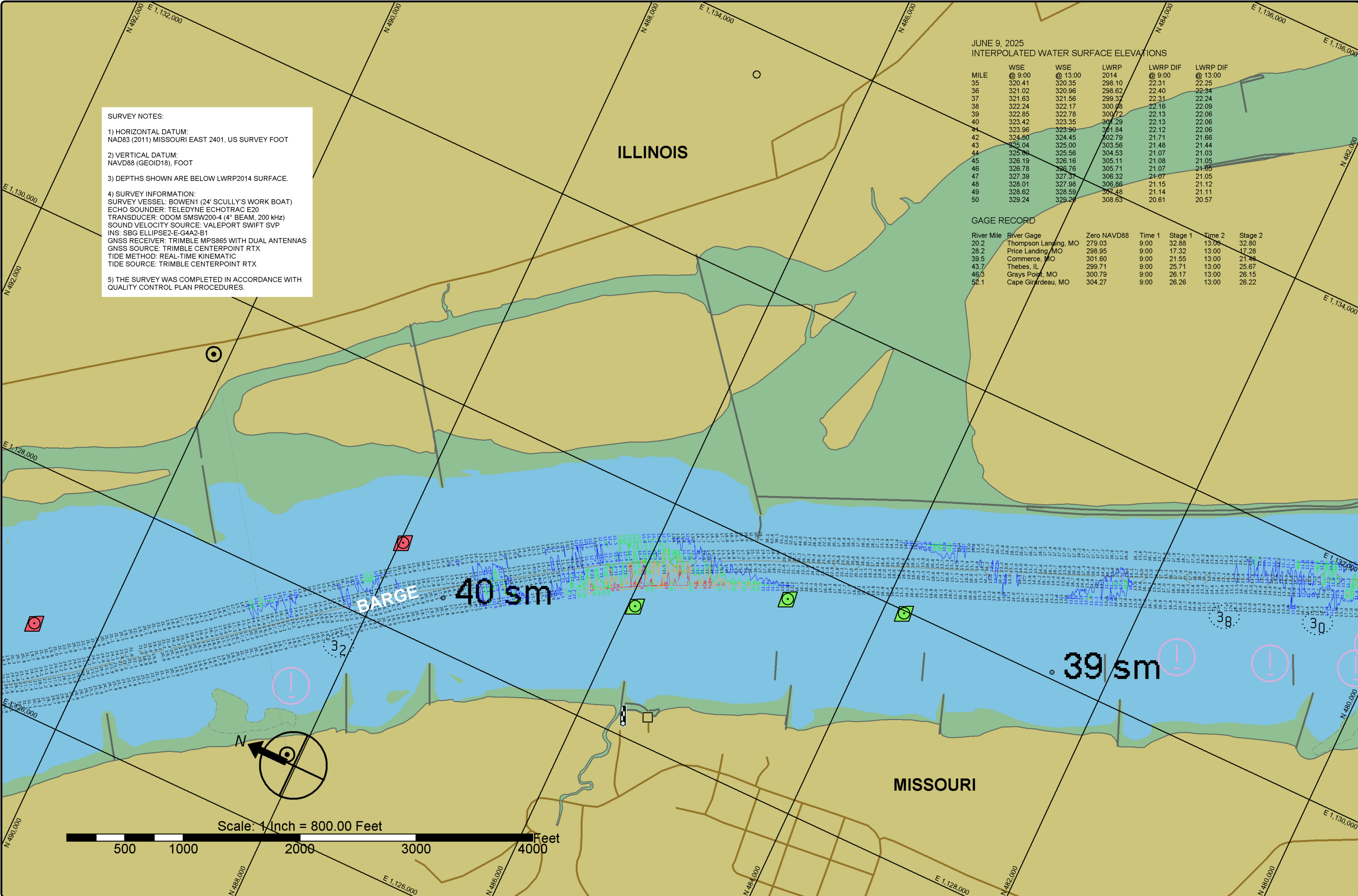
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI

SURVEYED BY:
BOWEN ENGINEERING AND SURVEYING, P.C.
2121 MEGAN DRIVE
CAPE GIRARDEAU, MO 63301

UPPER MISSISSIPPI RIVER
BASIN
MISSISSIPPI RIVER
CHANNEL PATROL
RIVER MILES 42.5 - 44.4

SHEET NO.

1 OF 1



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JUNE 9, 2025
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St. Louis District

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

SURVEYED BY:
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2121 MEGAN DRIVE
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UPPER MISSISSIPPI RIVER
BASIN
MISSISSIPPI RIVER
CHANNEL PATROL
RIVER MILES 38.5 - 40.5

SHEET NO.

1 OF 1

