



DATE	DESCRIPTION

**SURVEY NOTES:**

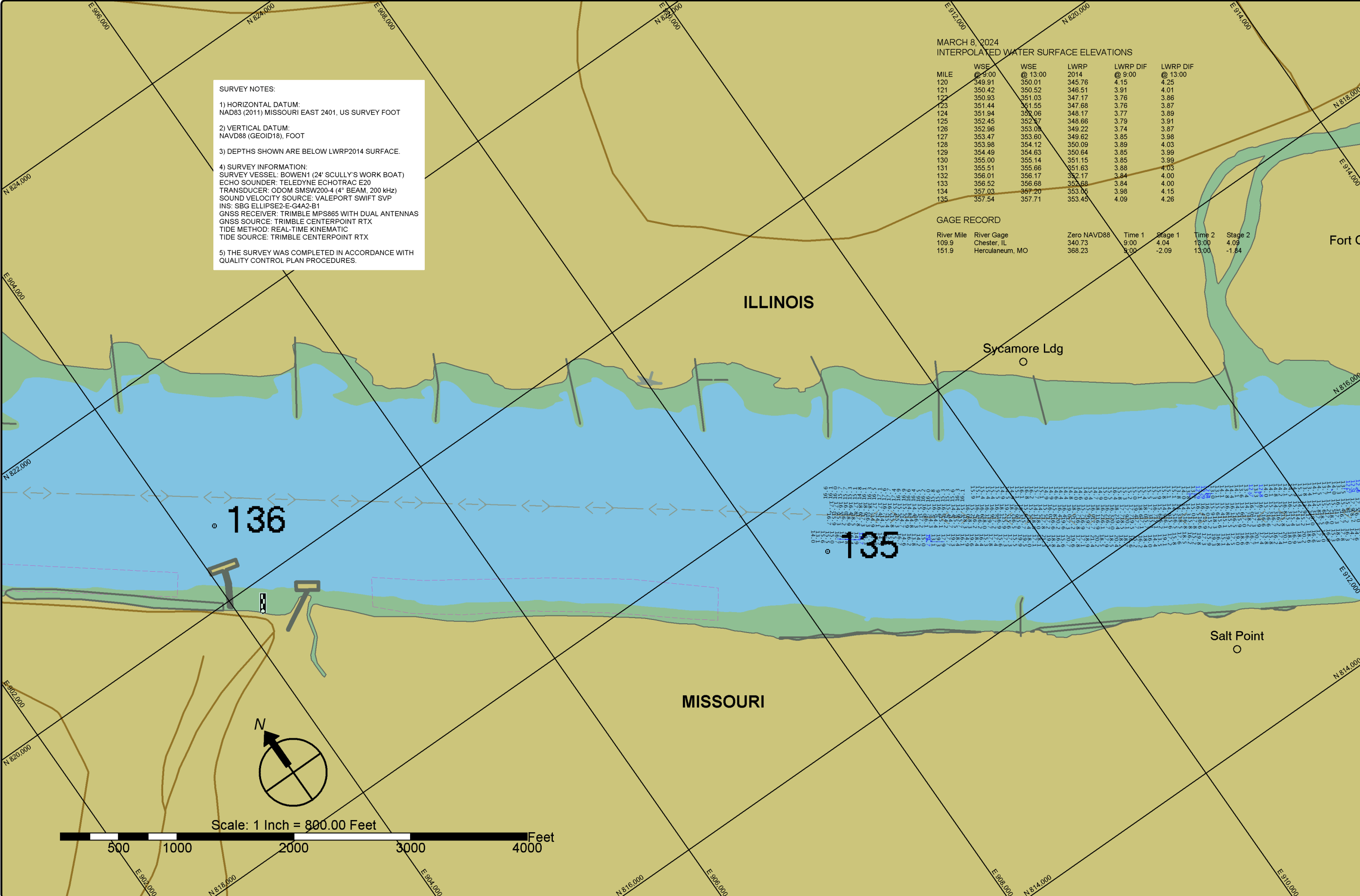
- 1) HORIZONTAL DATUM:  
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- 2) VERTICAL DATUM:  
NAVD88 (GEOID18), FOOT
- 3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.
- 4) SURVEY INFORMATION:  
SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)  
ECHO SOUNDER: TELEDYNE ECHOTRAC E20  
TRANSDUCER: ODOM SMSW200-4 (4" BEAM, 200 kHz)  
SOUND VELOCITY SOURCE: VALEPORT SWIFT SVP  
INS: SBC 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.

**MARCH 8, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS**

MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
120	349.91	350.01	345.76	4.15	4.25
121	350.42	350.52	346.51	3.91	4.01
122	350.93	351.03	347.17	3.76	3.86
123	351.44	351.55	347.68	3.76	3.87
124	351.94	352.06	348.17	3.77	3.89
125	352.45	352.57	348.66	3.79	3.91
126	352.96	353.08	349.22	3.74	3.87
127	353.47	353.60	349.62	3.85	3.98
128	353.98	354.12	350.09	3.89	4.03
129	354.49	354.63	350.64	3.85	3.99
130	355.00	355.14	351.15	3.85	3.99
131	355.51	355.66	351.63	3.88	4.03
132	356.01	356.17	352.17	3.84	4.00
133	356.52	356.68	352.68	3.84	4.00
134	357.03	357.20	353.06	3.98	4.15
135	357.54	357.71	353.45	4.09	4.26

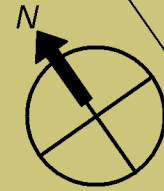
**GAGE RECORD**

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
109.9	Chester, IL	340.73	9:00	4.04	13:00	4.09
151.9	Herculaneum, MO	368.23	9:00	-2.09	13:00	-1.84

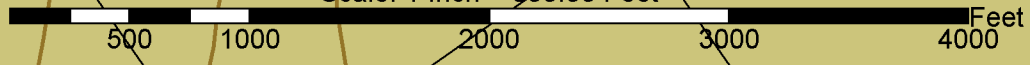


136

135



Scale: 1 Inch = 800.00 Feet



**DATES OF SURVEY:**  
MARCH 16, 2024  
FILE NO.: 135\_115C0824  
REQUEST NO.: W91P24F0029

**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 134.2 - 136.2**

**SHEET NO.**  
1 OF 1



St. Louis District

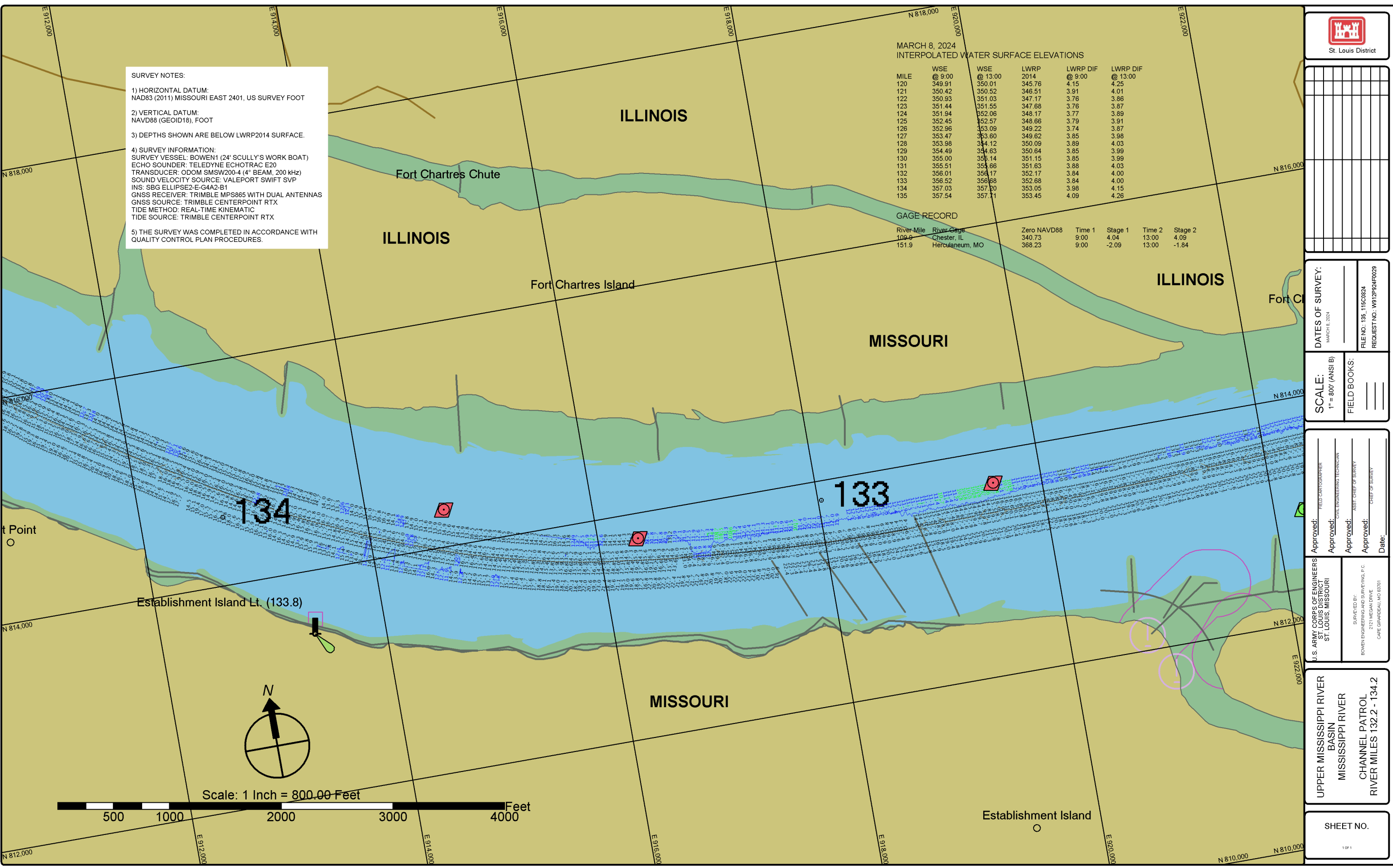
**SURVEY NOTES:**  
 1) HORIZONTAL DATUM:  
 NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT  
 2) VERTICAL DATUM:  
 NAVD88 (GEOID18), FOOT  
 3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.  
 4) SURVEY INFORMATION:  
 SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)  
 ECHO SOUNDER: TELEDYNE ECHOTRAC E20  
 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.

MARCH 8, 2024  
 INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
120	349.91	350.01	345.76	4.15	4.25
121	350.42	350.52	346.51	3.91	4.01
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123	351.44	351.55	347.68	3.76	3.87
124	351.94	352.06	348.17	3.77	3.89
125	352.45	352.57	348.66	3.79	3.91
126	352.96	353.09	349.22	3.74	3.87
127	353.47	353.60	349.62	3.85	3.98
128	353.98	354.12	350.09	3.89	4.03
129	354.49	354.63	350.64	3.85	3.99
130	355.00	355.14	351.15	3.85	3.99
131	355.51	355.66	351.63	3.88	4.03
132	356.01	356.17	352.17	3.84	4.00
133	356.52	356.68	352.68	3.84	4.00
134	357.03	357.20	353.05	3.98	4.15
135	357.54	357.71	353.45	4.09	4.26

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
109.9	Chester, IL	340.73	9:00	4.04	13:00	4.09
151.9	Herculaneum, MO	368.23	9:00	-2.09	13:00	-1.84



DATES OF SURVEY:  
 MARCH 8, 2024  
 FILE NO.: 135\_115C0824  
 REQUEST NO.: W91P24F0029

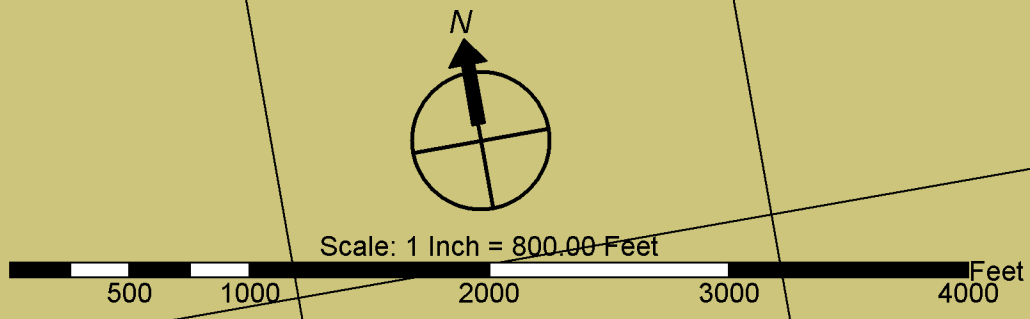
SCALE:  
 1" = 800' (ANSI B)  
 FIELD BOOKS:  
 \_\_\_\_\_

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  
 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 132.2 - 134.2

SHEET NO.  
 1 OF 1







St. Louis District

**SURVEY NOTES:**

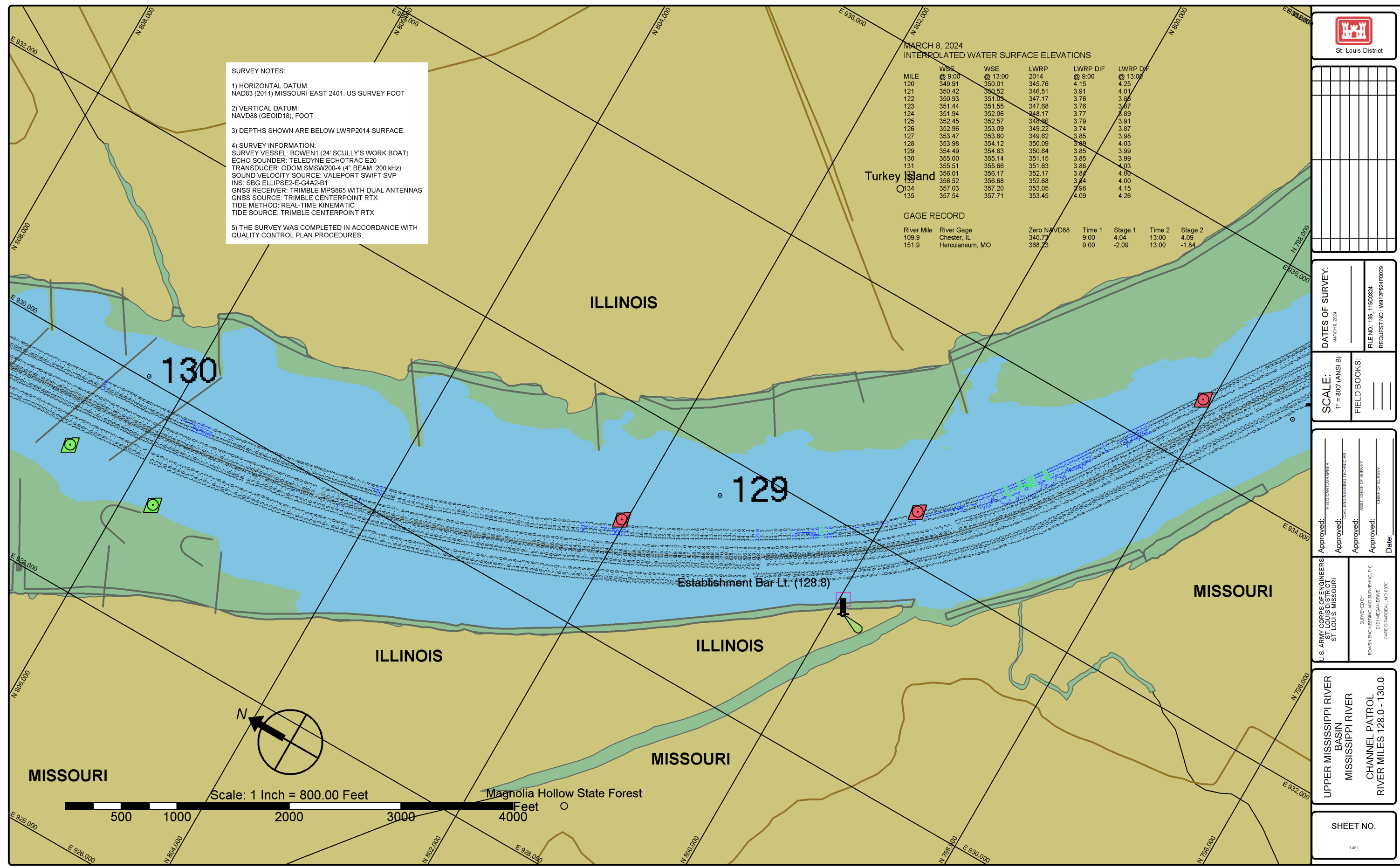
- 1) HORIZONTAL DATUM:  
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- 2) VERTICAL DATUM:  
NAVD88 (GEOID18), FOOT
- 3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.
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SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)  
ECHO SOUNDER: TELEDYNE ECHOTRAC E20  
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.

**MARCH 8, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS**

MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
120	349.91	350.01	345.76	4.15	4.25
121	350.42	350.52	346.51	3.91	4.01
122	350.93	351.03	347.17	3.76	3.86
123	351.44	351.55	347.68	3.76	3.87
124	351.94	352.06	348.17	3.77	3.89
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130	355.00	355.14	351.15	3.85	3.99
131	355.51	355.66	351.63	3.88	4.03
132	356.01	356.17	352.17	3.84	4.00
133	356.52	356.68	352.68	3.84	4.00
134	357.03	357.20	353.05	3.98	4.15
135	357.54	357.71	353.45	4.09	4.26

**GAGE RECORD**

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
109.9	Chester, IL	340.73	9:00	4.04	13:00	4.09
151.9	Herculeaneum, MO	368.73	9:00	-2.09	13:00	-1.84



**DATES OF SURVEY:**  
MARCH 16, 2024  
FILE NO.: 135\_115C0824  
REQUEST NO.: W91P24F0029

**SCALE:**  
1" = 800' (ANSI B)  
**FIELD BOOKS:**

**Approved:**  
FIELD CARTOGRAPHER  
CIVIL ENGINEERING TECHNICIAN  
ASST. CHIEF OF SURVEY  
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 128.0 - 130.0**

**SHEET NO.**  
1 OF 1





**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.

**MARCH 8, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS**

WSE	WSE	LWRP	LWRP DIF	LWRP DIF	
@ 9:00	@ 13:00	2014	@ 9:00	@ 13:00	
115	347.36	347.44	342.92	4.44	4.52
116	347.87	347.95	343.40	4.47	4.55
117	348.39	348.47	343.79	4.59	4.68
118	348.89	348.98	344.35	4.54	4.63
119	349.40	349.49	344.99	4.41	4.50
120	349.91	350.01	345.76	4.15	4.25
121	350.42	350.52	346.51	3.91	4.01
122	350.93	351.03	347.17	3.76	3.86
123	351.44	351.55	347.68	3.76	3.87
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126	352.96	353.09	349.22	3.74	3.87
127	353.47	353.60	349.62	3.85	3.98
128	353.98	354.12	350.09	3.89	4.03
129	354.49	354.63	350.64	3.85	3.99
130	355.00	355.14	351.15	3.85	3.99

**GAGE RECORD**

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
109.9	Chester, IL	340.73	9:00	4.04	13.00	4.09
151.9	Herquianum, MO	368.23	9:00	-2.09	16.00	-1.84

**ILLINOIS**

**MISSOURI**

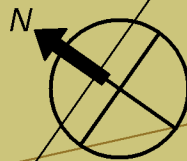
"STRUCT DEST" Ste. Genevieve Island Lt. (123.4)

**124**

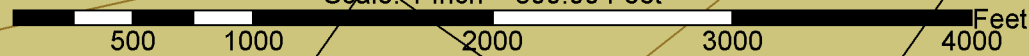
**123**

Big Field

Baumstark Towhead



Scale: 1 Inch = 800.00 Feet



St. Louis District

DATES OF SURVEY:  
MARCH 16, 2024

FILE NO.: 135.115C0824  
REQUEST NO.: W912P24F0029

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, 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 122.0 - 124.0

SHEET NO.

**SURVEY NOTES:**

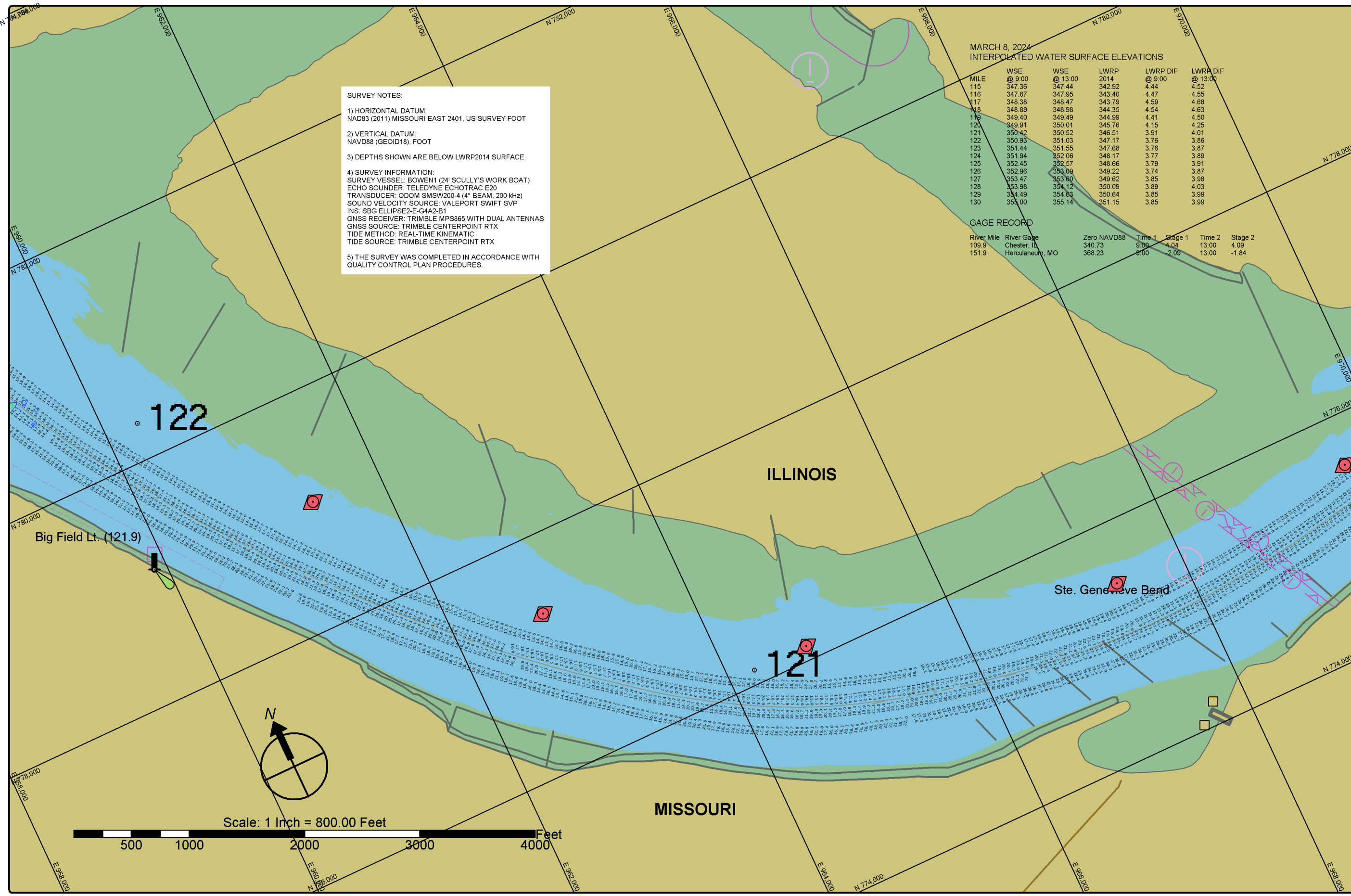
- 1) HORIZONTAL DATUM:  
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- 2) VERTICAL DATUM:  
NAVD88 (GEOID18), FOOT
- 3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.
- 4) SURVEY INFORMATION:  
SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)  
ECHO SOUNDER: TELEDYNE ECHOTRAC E20  
TRANSDUCER: ODOM SMSW200-4 (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.


MARCH 8, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
115	347.36	347.44	342.92	4.44	4.52
116	347.87	347.95	343.40	4.47	4.55
117	348.38	348.47	343.79	4.59	4.68
118	348.89	348.98	344.35	4.54	4.63
119	349.40	349.49	344.99	4.41	4.50
120	349.91	350.01	345.76	4.15	4.25
121	350.42	350.52	346.51	3.91	4.01
122	350.93	351.03	347.17	3.76	3.86
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128	353.98	354.12	350.09	3.89	4.03
129	354.49	354.83	350.64	3.85	3.99
130	355.00	355.14	351.15	3.85	3.99

**GAGE RECORD**

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
109.9	Chester, IL	340.73	9:00	4.04	13:00	4.09
151.9	Herculaneum, MO	368.23	9:00	2.09	13:00	-1.84





St. Louis District

<b>DATES OF SURVEY:</b> MARCH 6, 2024	<b>FILE NO.:</b> 135_115C0824 <b>REQUEST NO.:</b> W91P24F0029
<b>SCALE:</b> 1" = 800' (ANSI B)	<b>FIELD BOOKS:</b>
<b>APPROVED:</b> FIELD CARTOGRAPHER CIVIL ENGINEERING TECHNICIAN ASST. CHIEF OF SURVEY CHIEF OF SURVEY	<b>DATE:</b>
<b>J.S. ARMY CORPS OF ENGINEERS</b> <b>ST. LOUIS, MISSOURI</b> SURVEYED BY: BOWEN ENGINEERING AND SURVEYING, P.C. 2121 MEGAN DRIVE CAPE GIRARDEAU, MO 63701	
<b>UPPER MISSISSIPPI RIVER</b> <b>MISSISSIPPI BASIN</b> <b>MISSISSIPPI RIVER</b> <b>CHANNEL PATROL</b> <b>RIVER MILES 120.1 - 122.0</b>	
<b>SHEET NO.</b>	

1 of 1







**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 SMSN2004 (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.

**MARCH 8, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS**

MILE	WSE @ 9:00	WSE @ 13:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 13:00
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119	349.40	349.49	344.99	4.41	4.50
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151.9	Herculaneum, MO	368.23	9:00	-2.09	13:00	-1.84

ILLINOIS

115

116

Farmers Lt. (115.1)

Farmers Ldg

Mid America Transportation Co.

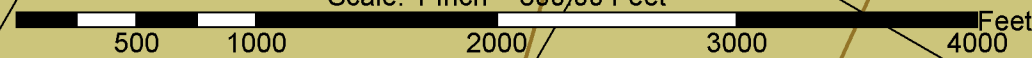
Kaskaskia Chute

ILLINOIS

Kaskaskia Island



Scale: 1 Inch = 800.00 Feet



St. Louis District

DATES OF SURVEY:  
MARCH 8, 2024

FILE NO.: 135.115C0824  
REQUEST NO.: W91P24F0029

SCALE:  
1" = 800' (ANSI B)

FIELD BOOKS:

Approved:

Approved:

Approved:

Approved:

Date:

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

FIELD SUPERVISOR

CIVIL ENGINEERING TECHNICIAN

ASST. CHIEF OF SURVEY

CHIEF OF SURVEY

DATE

UPPER MISSISSIPPI RIVER  
BASIN

MISSISSIPPI RIVER

CHANNEL PATROL

RIVER MILES 114.0 - 116.0

SHEET NO.

SURVEY NOTES:

- 1) HORIZONTAL DATUM:  
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- 2) VERTICAL DATUM:  
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- 4) SURVEY INFORMATION:  
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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.

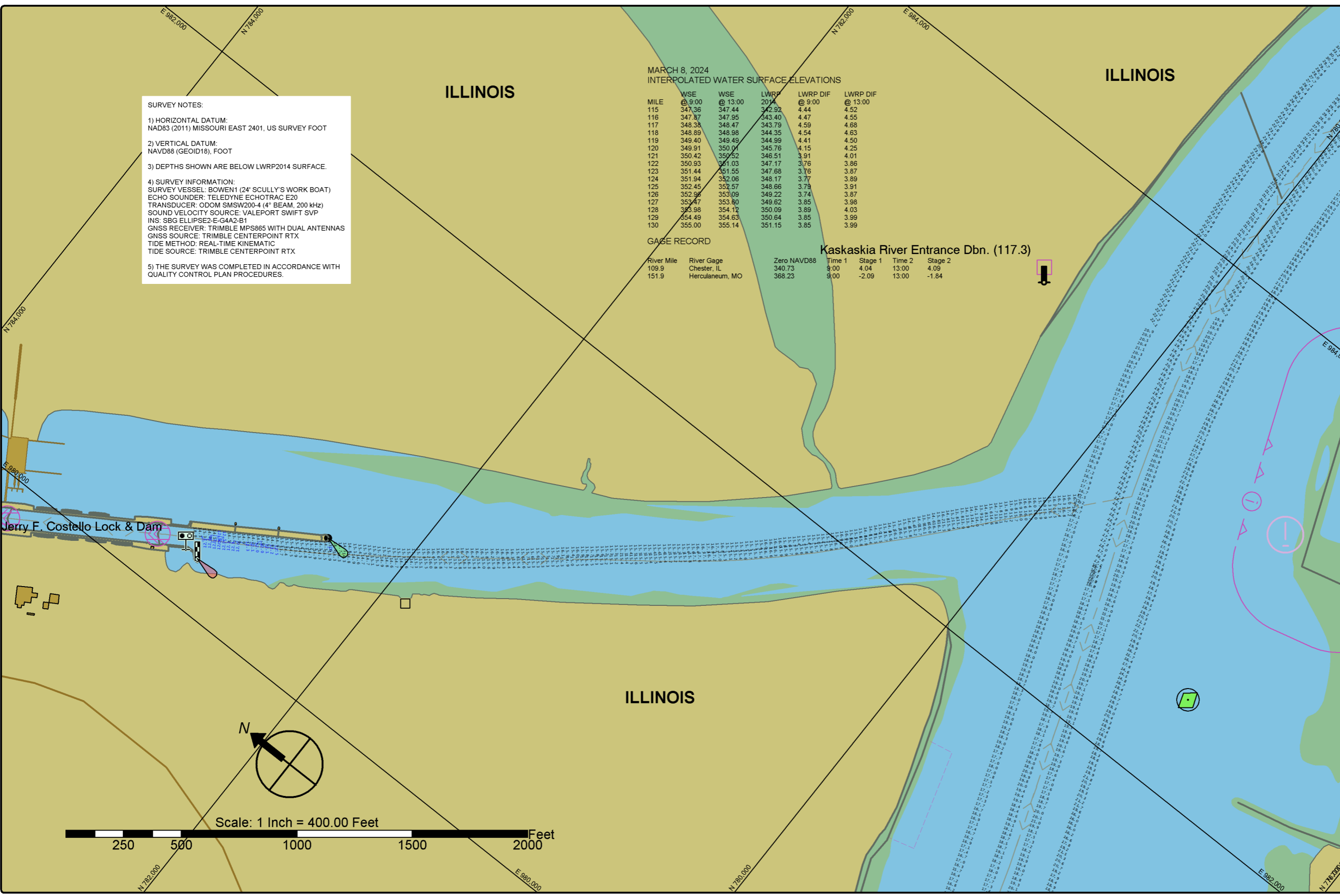
MARCH 8, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 13:00	LWRP @ 9:00	LWRP DIF @ 9:00	LWRP DIF @ 13:00
115	347.36	347.44	342.92	4.44	4.52
116	347.87	347.95	343.40	4.47	4.55
117	348.38	348.47	343.79	4.59	4.68
118	348.89	348.98	344.35	4.54	4.63
119	349.40	349.49	344.99	4.41	4.50
120	349.91	350.01	345.76	4.15	4.25
121	350.42	350.52	346.51	3.91	4.01
122	350.93	351.03	347.17	3.76	3.86
123	351.44	351.55	347.68	3.76	3.87
124	351.94	352.06	348.17	3.77	3.89
125	352.45	352.57	348.66	3.79	3.91
126	352.96	353.09	349.22	3.74	3.87
127	353.47	353.60	349.62	3.85	3.98
128	353.98	354.12	350.09	3.89	4.03
129	354.49	354.63	350.64	3.85	3.99
130	355.00	355.14	351.15	3.85	3.99

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
109.9	Chester, IL	340.73	9:00	4.04	13:00	4.09
151.9	Herculeanum, MO	368.23	9:00	-2.09	13:00	-1.84

Kaskaskia River Entrance Dbn. (117.3)



St. Louis District

<p><b>DATES OF SURVEY:</b> MARCH 8, 2024</p> <p><b>SCALE:</b> 1" = 400' (ANSI B)</p> <p><b>APPROVED:</b> FIELD CHARTERMASTER CIVIL ENGINEERING TECHNICIAN ASST. CHIEF OF SURVEY CHIEF OF SURVEY</p> <p><b>U.S. ARMY CORPS OF ENGINEERS</b> ST. LOUIS DISTRICT MISSOURI</p> <p><b>APPROVED:</b> SURVEYED BY: BOWEN ENGINEERING AND SURVEYING, P.C. 2131 MEGAN DRIVE CAPE GIRARDEAU, MO 63701</p> <p><b>UPPER MISSISSIPPI RIVER BASIN</b> MISSISSIPPI RIVER CHANNEL PATROL RIVER MILES 117.3</p>	<p><b>FILE NO.:</b> 135-115C0824</p> <p><b>REQUEST NO.:</b> W01P024F0029</p> <p><b>FIELD BOOKS:</b> _____ _____</p> <p><b>DATE:</b> _____</p> <p><b>SHEET NO.</b> 1 OF 1</p>
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