



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

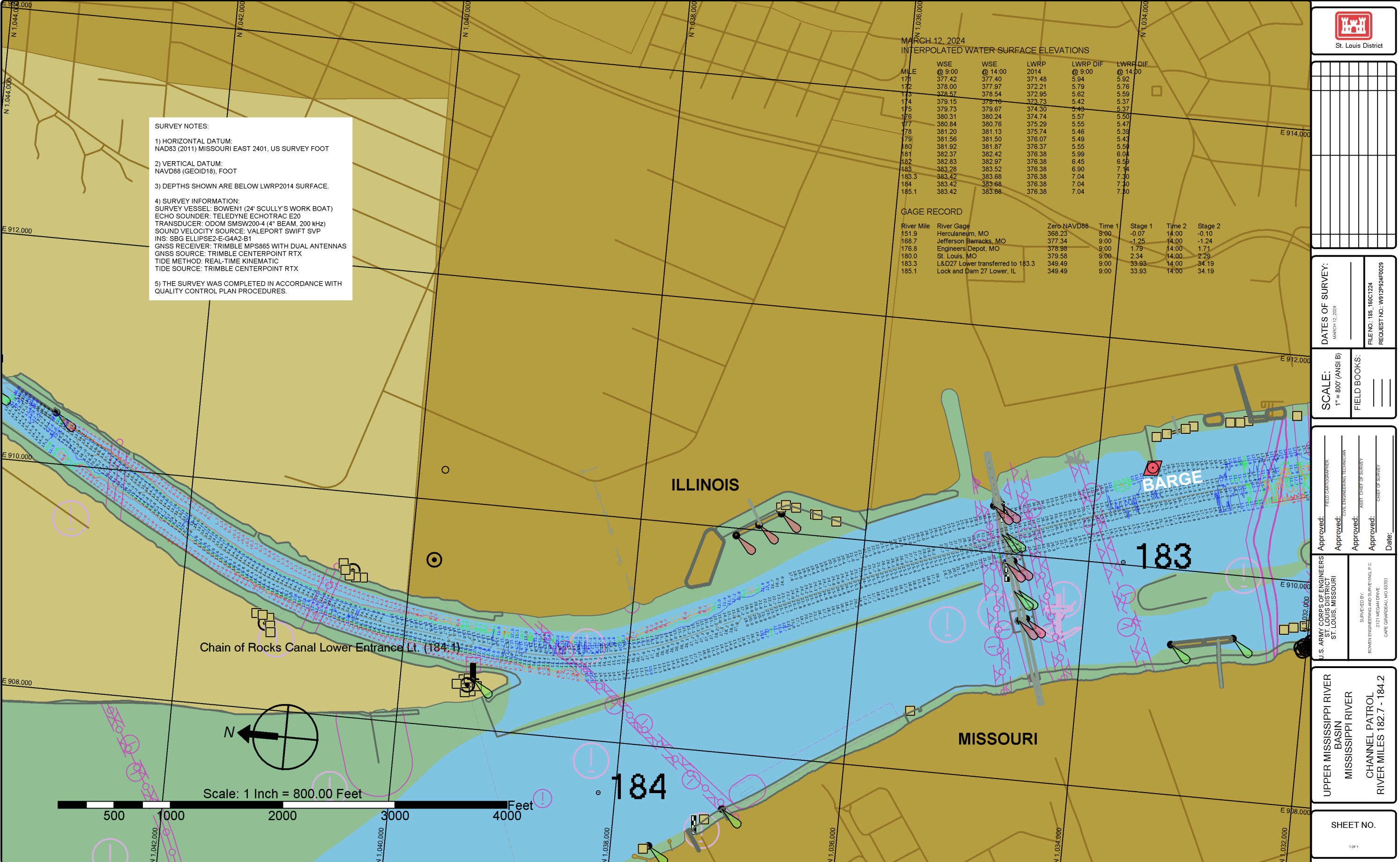
5) THE SURVEY WAS COMPLETED IN ACCORDANCE WITH QUALITY CONTROL PLAN PROCEDURES.

**MARCH 12, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS**

MILE	WSE		LWRP	LWRP DIF		LWRP DIF
	@ 9:00	@ 14:00		2014	@ 9:00	
171	377.42	377.40	371.48	5.94	5.92	
172	378.00	377.97	372.21	5.79	5.76	
173	378.57	378.54	372.95	5.62	5.59	
174	379.15	379.10	373.73	5.42	5.37	
175	379.73	379.67	374.30	5.43	5.37	
176	380.31	380.24	374.74	5.57	5.50	
177	380.84	380.76	375.29	5.55	5.47	
178	381.20	381.13	375.74	5.46	5.39	
179	381.56	381.50	376.07	5.49	5.43	
180	381.92	381.87	376.37	5.55	5.50	
181	382.37	382.42	376.38	5.99	6.04	
182	382.83	382.97	376.38	6.45	6.59	
183	383.28	383.52	376.38	6.90	7.14	
183.3	383.42	383.68	376.38	7.04	7.30	
184	383.42	383.68	376.38	7.04	7.30	
185.1	383.42	383.68	376.38	7.04	7.30	

**GAGE RECORD**

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
151.9	Herculaneum, MO	368.23	9:00	-0.07	14:00	-0.10
168.7	Jefferson Barracks, MO	377.34	9:00	-1.25	14:00	-1.24
176.8	Engineers Depot, MO	378.98	9:00	1.79	14:00	1.71
180.0	St. Louis, MO	379.58	9:00	2.34	14:00	2.29
183.3	L&D27 Lower transferred to 183.3	349.49	9:00	33.93	14:00	34.19
185.1	Lock and Dam 27 Lower, IL	349.49	9:00	33.93	14:00	34.19



Chain of Rocks Canal Lower Entrance Lt. (184.1)

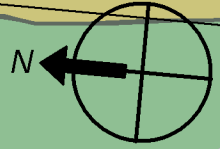
ILLINOIS

BARGE

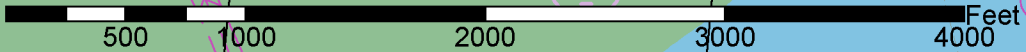
183

MISSOURI

184



Scale: 1 Inch = 800.00 Feet



DATE OF SURVEY:  
MARCH 12, 2024

SCALE:  
1" = 800' (ANSI B)

FIELD BOOKS:  
\_\_\_\_\_

APPROVED:  
FIELD SUPERVISOR  
CIVIL ENGINEERING TECHNICIAN  
ASST. CHIEF OF SURVEY  
CHIEF OF SURVEY

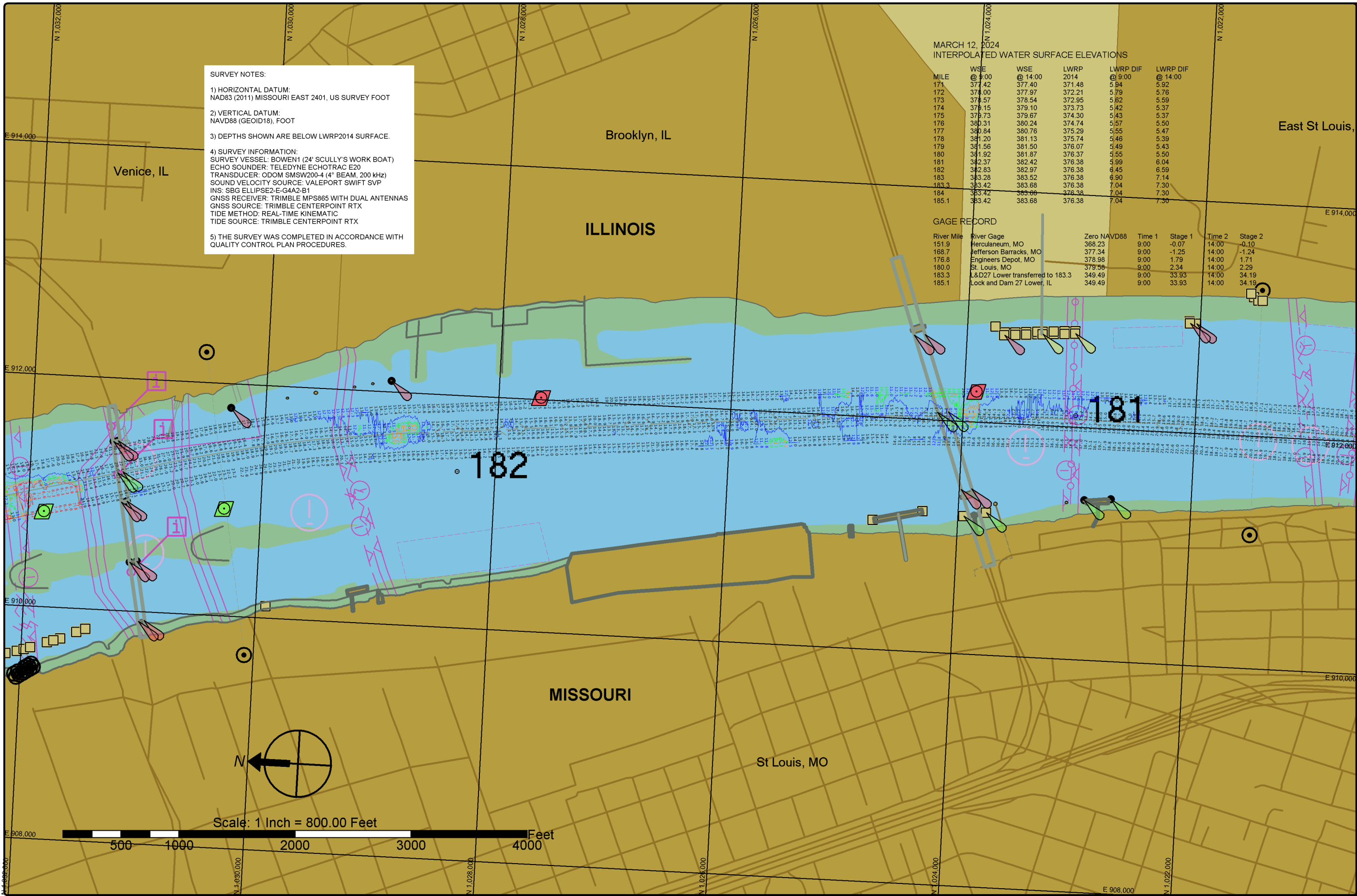
APPROVED:  
APPROVED:  
APPROVED:  
Date: \_\_\_\_\_

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 182.7 - 184.2

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 12, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS**

MILE	WSE		LWRP		LWRP DIF	
	@ 9:00	@ 14:00	2014	@ 9:00	@ 14:00	
171	377.42	377.40	371.48	5.94	5.92	
172	374.00	377.97	372.21	5.79	5.76	
173	374.57	378.54	372.95	5.62	5.59	
174	379.15	379.10	373.73	5.42	5.37	
175	379.73	379.67	374.30	5.43	5.37	
176	380.31	380.24	374.74	5.57	5.50	
177	380.84	380.76	375.29	5.55	5.47	
178	381.20	381.13	375.74	5.46	5.39	
179	381.56	381.50	376.07	5.49	5.43	
180	381.92	381.87	376.37	5.55	5.50	
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185.1	383.42	383.68	376.38	7.04	7.30	

**GAGE RECORD**

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
151.9	Herculeanum, MO	368.23	9:00	-0.07	14:00	-0.10
168.7	Jefferson Barracks, MO	377.34	9:00	-1.25	14:00	-1.24
176.8	Engineers Depot, MO	378.98	9:00	1.79	14:00	1.71
180.0	St. Louis, MO	379.58	9:00	2.34	14:00	2.29
183.3	L&D27 Lower transferred to 183.3	349.49	9:00	33.93	14:00	34.19
185.1	Lock and Dam 27 Lower, IL	349.49	9:00	33.93	14:00	34.19




**DATES OF SURVEY:**  
MARCH 12, 2024

**FIELD BOOKS:**  
FILE NO.: 185.160C124  
REQUEST NO.: W912P24F0029

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

**Approved:** FIELD SUPERVISOR

**Approved:** CIVIL ENGINEERING TECHNICIAN

**Approved:** ASST. CHIEF OF SURVEY

**Approved:** CHIEF OF SURVEY

**Date:**

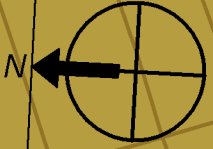
**U.S. ARMY CORPS OF ENGINEERS  
ST. LOUIS DISTRICT  
ST. LOUIS, MISSOURI**

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

**UPPER MISSISSIPPI RIVER  
BASIN  
MISSISSIPPI RIVER  
CHANNEL PATROL  
RIVER MILES 180.3 - 182.7**

**SHEET NO.**

1 OF 1







St. Louis District

DATES OF SURVEY:

MARCH 12, 2024

FILE NO.: 185\_160C1224

REQUEST NO.: W912P24F029

SCALE:

1" = 800' (ANSI B)

FIELD BOOKS:

\_\_\_\_\_

APPROVED:

\_\_\_\_\_

APPROVED:

\_\_\_\_\_

APPROVED:

\_\_\_\_\_

APPROVED:

\_\_\_\_\_

DATE:

\_\_\_\_\_

U.S. ARMY CORPS OF ENGINEERS

ST. LOUIS, MISSOURI

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ST. LOUIS, MISSOURI

U.S. ARMY CORPS OF ENGINEERS

ST. LOUIS, MISSOURI

SURVEY NOTES:

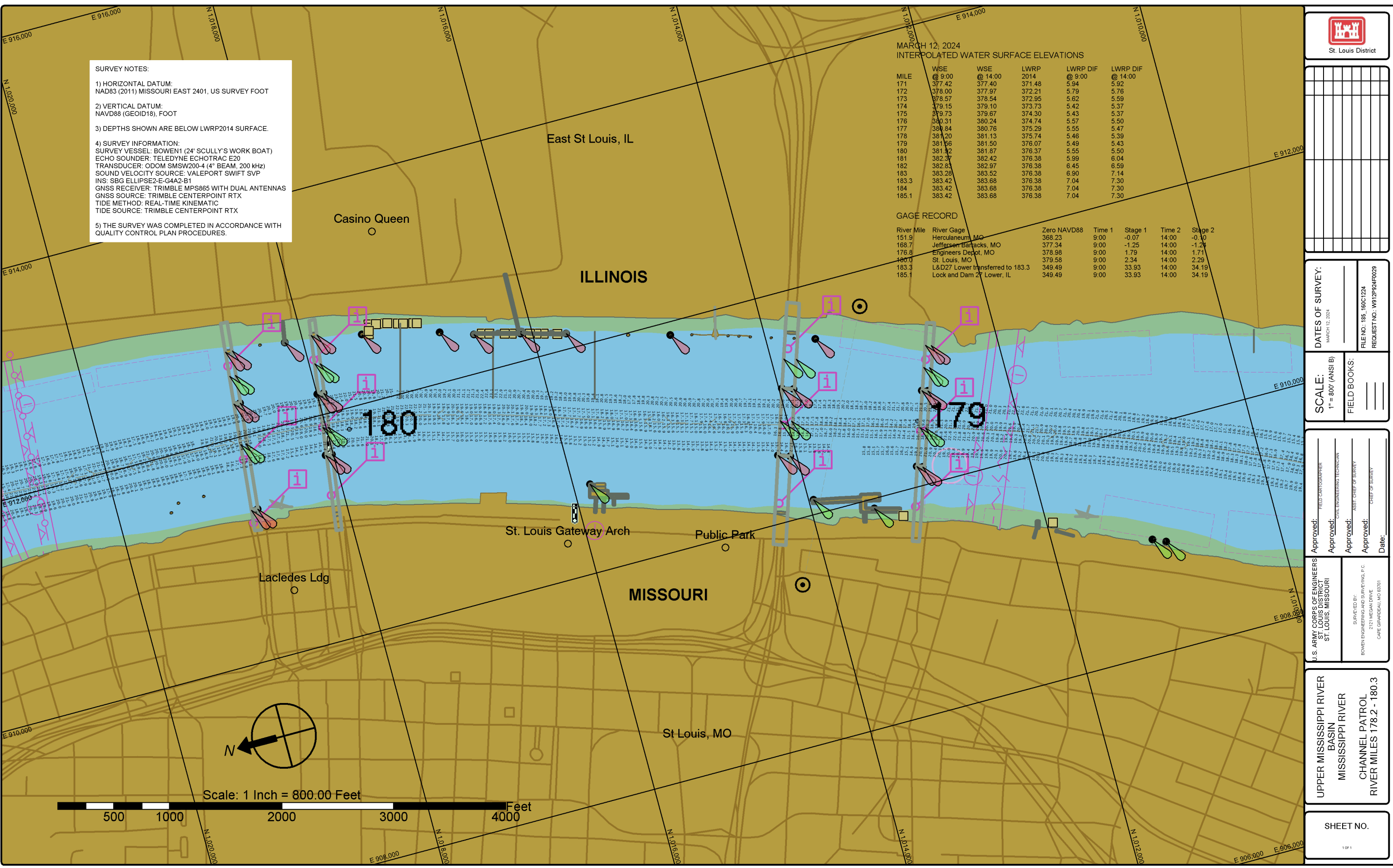
- HORIZONTAL DATUM:  
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- VERTICAL DATUM:  
NAVD88 (GEOID18), FOOT
- DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.
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SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)  
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TRANSDUCER: ODOM SMSW200-4 (4" BEAM, 200 kHz)  
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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
- THE SURVEY WAS COMPLETED IN ACCORDANCE WITH QUALITY CONTROL PLAN PROCEDURES.

MARCH 12, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS

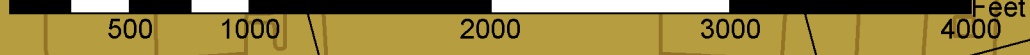
MILE	WSE @ 9:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 14:00
171	377.42	377.40	371.48	5.94	5.92
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179	381.66	381.50	376.07	5.49	5.43
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GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
151.9	Herculeanum, MO	368.23	9:00	-0.07	14:00	-0.10
168.7	Jefferson Barracks, MO	377.34	9:00	-1.25	14:00	-1.24
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Scale: 1 Inch = 800.00 Feet



UPPER MISSISSIPPI RIVER  
BASIN  
MISSISSIPPI RIVER  
CHANNEL PATROL  
RIVER MILES 178.2 - 180.3

SHEET NO.



St. Louis District

**SURVEY NOTES:**

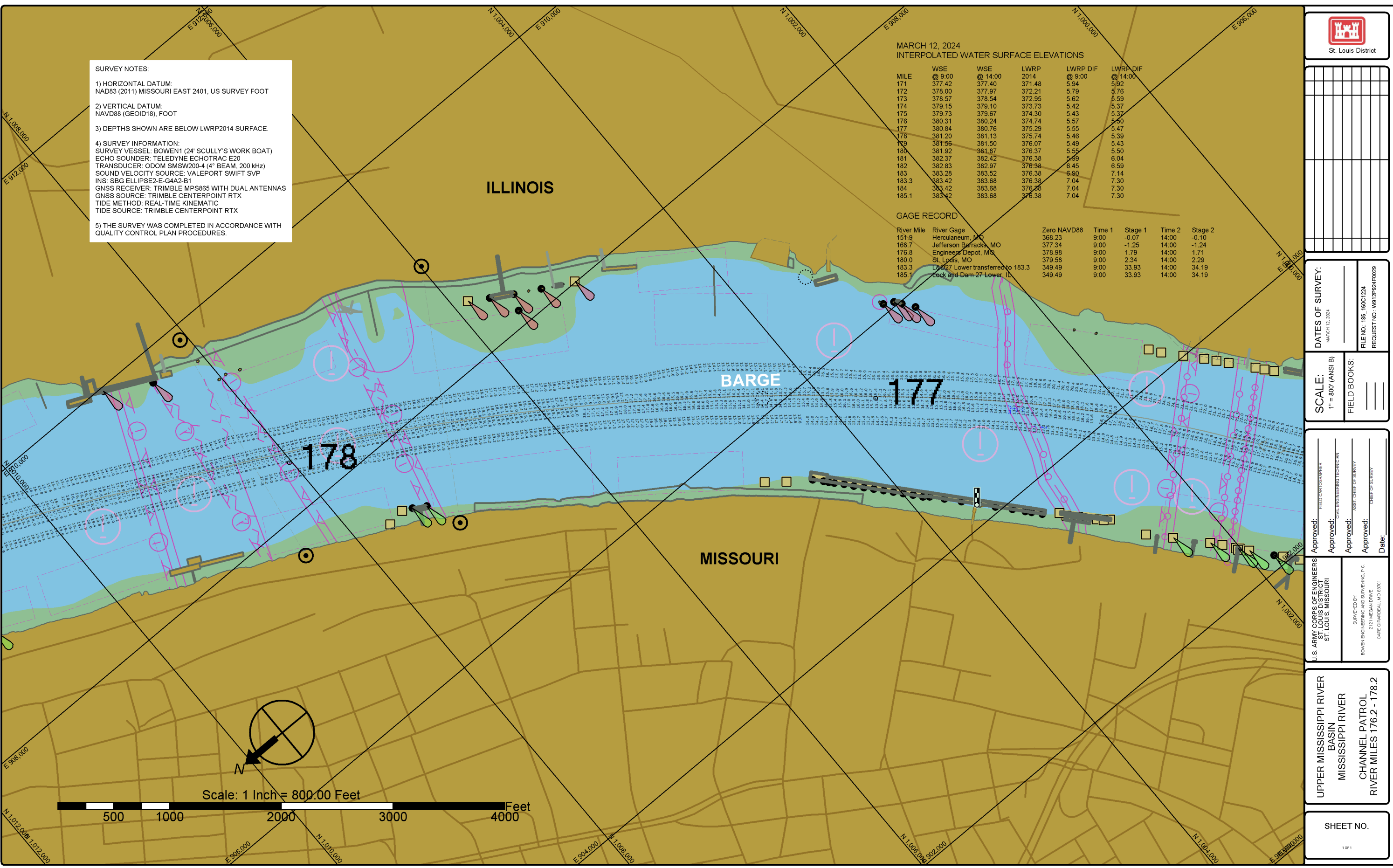
- 1) HORIZONTAL DATUM:  
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
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TRANSDUCER: ODOM SMSW200-4 (4" BEAM, 200 kHz)  
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INS: SBG ELLIPSE2-E-G4A2-B1  
GNSS RECEIVER: TRIMBLE MPS865 WITH DUAL ANTENNAS  
GNSS SOURCE: TRIMBLE CENTERPOINT RTX  
TIDE METHOD: REAL-TIME KINEMATIC  
TIDE SOURCE: TRIMBLE CENTERPOINT RTX
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MARCH 12, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 14:00	LWRP	LWRP DIF	LWRP DIF @ 14:00
171	377.42	377.40	371.48	5.94	5.92
172	378.00	377.97	372.21	5.79	5.76
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178

177

178

MISSOURI

ILLINOIS

BARGE



Scale: 1 Inch = 800.00 Feet  
500 1000 2000 3000 4000 Feet

DATES OF SURVEY:  
MARCH 12, 2024  
FILE NO.: 185\_160C1224  
REQUEST NO.: W91P024P029  
SCALE:  
1" = 800' (ANSI B)  
FIELD BOOKS:

APPROVED BY:  
FIELD CARTOGRAPHER \_\_\_\_\_  
CIVIL ENGINEERING TECHNICIAN \_\_\_\_\_  
ASST. CHIEF OF SURVEY \_\_\_\_\_  
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 176.2 - 178.2

SHEET NO.  
1 OF 1











St. Louis District

**SURVEY NOTES:**

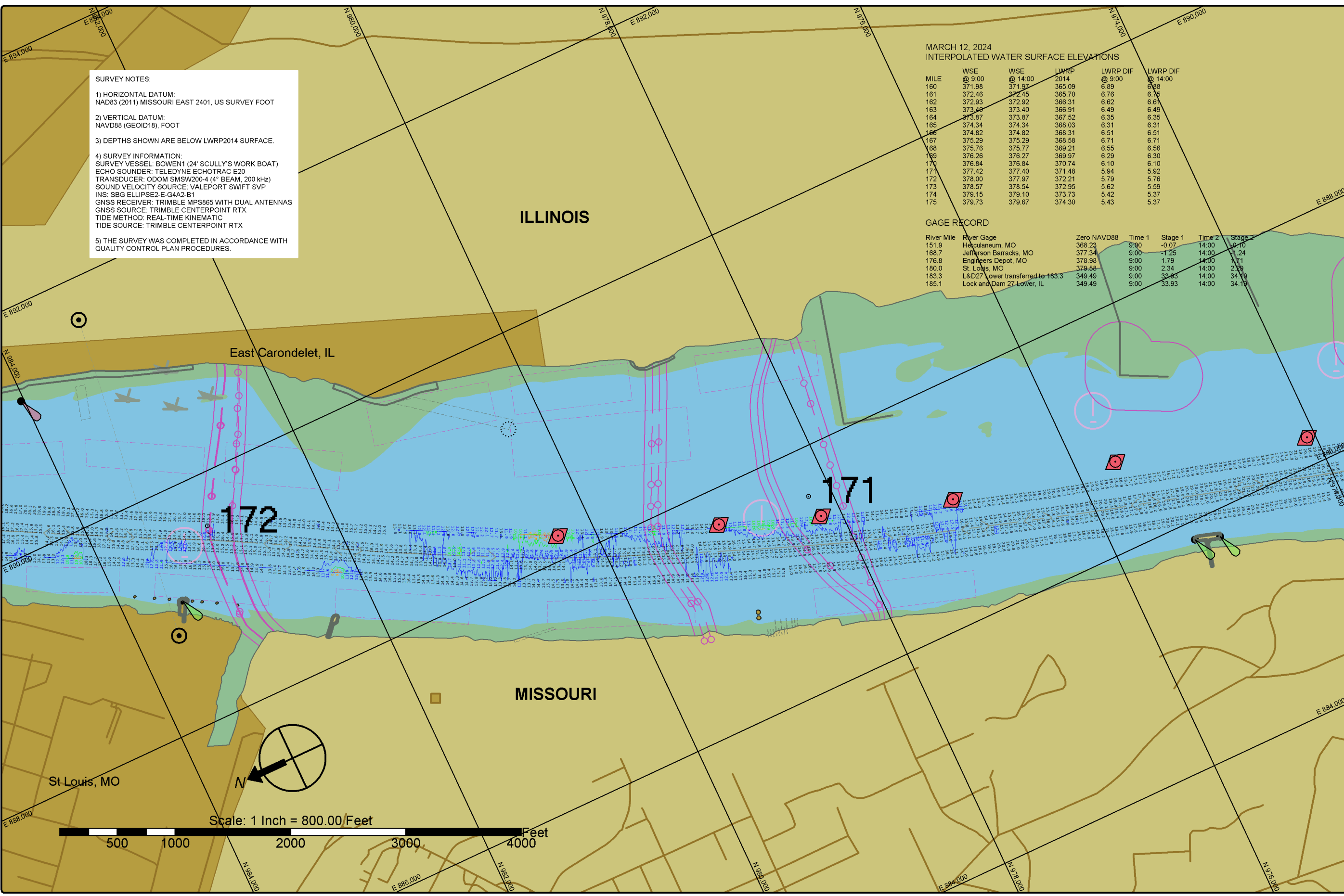
- 1) HORIZONTAL DATUM:  
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
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TIDE METHOD: REAL-TIME KINEMATIC  
TIDE SOURCE: TRIMBLE CENTERPOINT RTX
- 5) THE SURVEY WAS COMPLETED IN ACCORDANCE WITH QUALITY CONTROL PLAN PROCEDURES.

**MARCH 12, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS**

MILE	WSE @ 9:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 14:00
160	371.98	371.97	365.09	6.89	6.88
161	372.46	372.45	365.70	6.76	6.75
162	372.93	372.92	366.31	6.62	6.61
163	373.40	373.40	366.91	6.49	6.49
164	373.87	373.87	367.52	6.35	6.35
165	374.34	374.34	368.03	6.31	6.31
166	374.82	374.82	368.31	6.51	6.51
167	375.29	375.29	368.58	6.71	6.71
168	375.76	375.77	369.21	6.55	6.56
169	376.26	376.27	369.97	6.29	6.30
170	376.84	376.84	370.74	6.10	6.10
171	377.42	377.40	371.48	5.94	5.92
172	378.00	377.97	372.21	5.79	5.76
173	378.57	378.54	372.95	5.62	5.59
174	379.15	379.10	373.73	5.42	5.37
175	379.73	379.67	374.30	5.43	5.37

**GAGE RECORD**

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
151.9	Helicolum, MO	368.23	9:00	-0.07	14:00	0.10
168.7	Jefferson Barracks, MO	377.34	9:00	-1.25	14:00	1.24
176.8	Engineers Depot, MO	378.98	9:00	1.79	14:00	1.71
180.0	St. Louis, MO	379.58	9:00	2.34	14:00	2.29
183.3	L&D27 Lower transferred to 183.3	349.49	9:00	33.93	14:00	34.19
185.1	Lock and Dam 27 Lower, IL	349.49	9:00	33.93	14:00	34.19



**DATES OF SURVEY:**  
MARCH 12, 2024

**FILE NO.:** 185\_160C124  
**REQUEST NO.:** W91P24F029

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

**FIELD BOOKS:**  
\_\_\_\_\_

**Approved:** \_\_\_\_\_  
FIELD COORDINATOR

**Approved:** \_\_\_\_\_  
CIVIL ENGINEERING TECHNICIAN

**Approved:** \_\_\_\_\_  
ASST. CHIEF OF SURVEY

**Approved:** \_\_\_\_\_  
CHIEF OF SURVEY

**Date:** \_\_\_\_\_

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

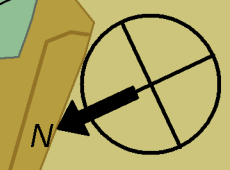
**SURVEYED BY:**  
BOWEN ENGINEERING AND SURVEYING, P.C.  
2121 MEGAN DRIVE  
CAPE GIRARDEAU, MO 63701

**UPPER MISSISSIPPI RIVER  
BASIN  
MISSISSIPPI RIVER  
CHANNEL PATROL  
RIVER MILES 170.1 - 172.2**

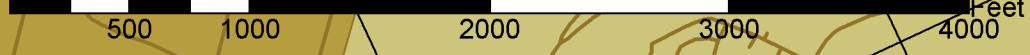
**SHEET NO.**

1 OF 1

St Louis, MO



Scale: 1 Inch = 800.00 Feet



ILLINOIS

MISSOURI

East Carondelet, IL

172

171







St. Louis District

### MARCH 12, 2024 INTERPOLATED WATER SURFACE ELEVATIONS

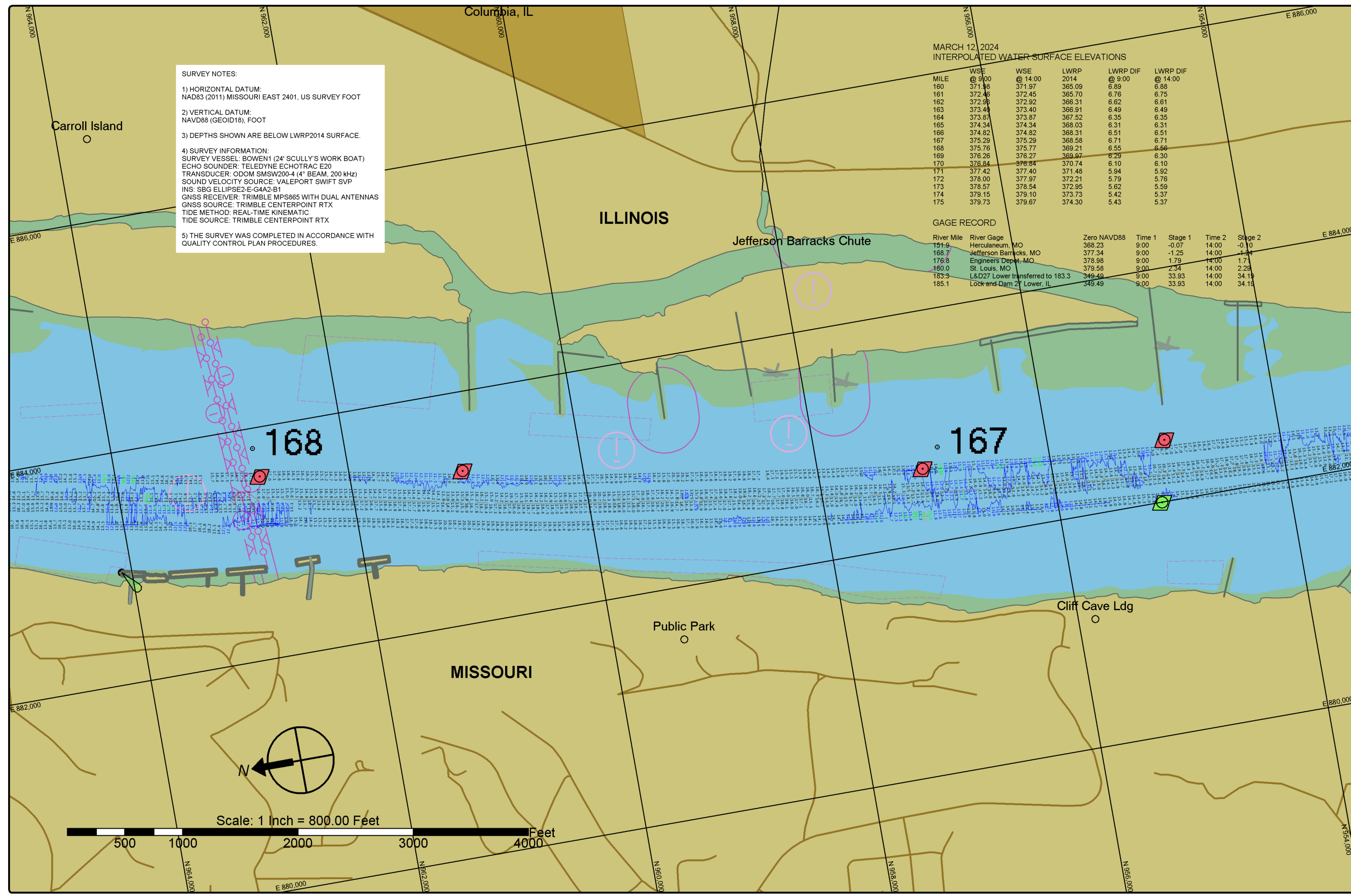
MILE	WSE @ 9:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 14:00
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163	373.44	373.40	366.91	6.49	6.49
164	373.87	373.87	367.52	6.35	6.35
165	374.34	374.34	368.03	6.31	6.31
166	374.82	374.82	368.31	6.51	6.51
167	375.29	375.29	368.58	6.71	6.71
168	375.76	375.77	369.21	6.55	6.56
169	376.26	376.27	369.97	6.29	6.30
170	376.84	376.84	370.74	6.10	6.10
171	377.42	377.40	371.48	5.94	5.92
172	378.00	377.97	372.21	5.79	5.76
173	378.57	378.54	372.95	5.62	5.59
174	379.15	379.10	373.73	5.42	5.37
175	379.73	379.67	374.30	5.43	5.37

### GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
151.9	Herculeanum, MO	368.23	9:00	-0.07	14:00	-0.10
168.7	Jefferson Barracks, MO	377.34	9:00	-1.25	14:00	-1.24
176.8	Engineers Depot, MO	378.98	9:00	1.79	14:00	1.71
180.0	St. Louis, MO	379.58	9:00	2.34	14:00	2.29
183.3	L&D27 Lower transferred to 183.3	349.49	9:00	33.93	14:00	34.19
185.1	Lock and Dam 27 Lower, IL	349.49	9:00	33.93	14:00	34.19

**SURVEY NOTES:**

- HORIZONTAL DATUM:  
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- VERTICAL DATUM:  
NAVD83 (GEOID18), FOOT
- DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.
- 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
- THE SURVEY WAS COMPLETED IN ACCORDANCE WITH QUALITY CONTROL PLAN PROCEDURES.



**DATES OF SURVEY:**  
MARCH 12, 2024

**FILE NO.:** 185\_160C1224  
**REQUEST NO.:** W91P24F029

**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 166.3 - 168.2**

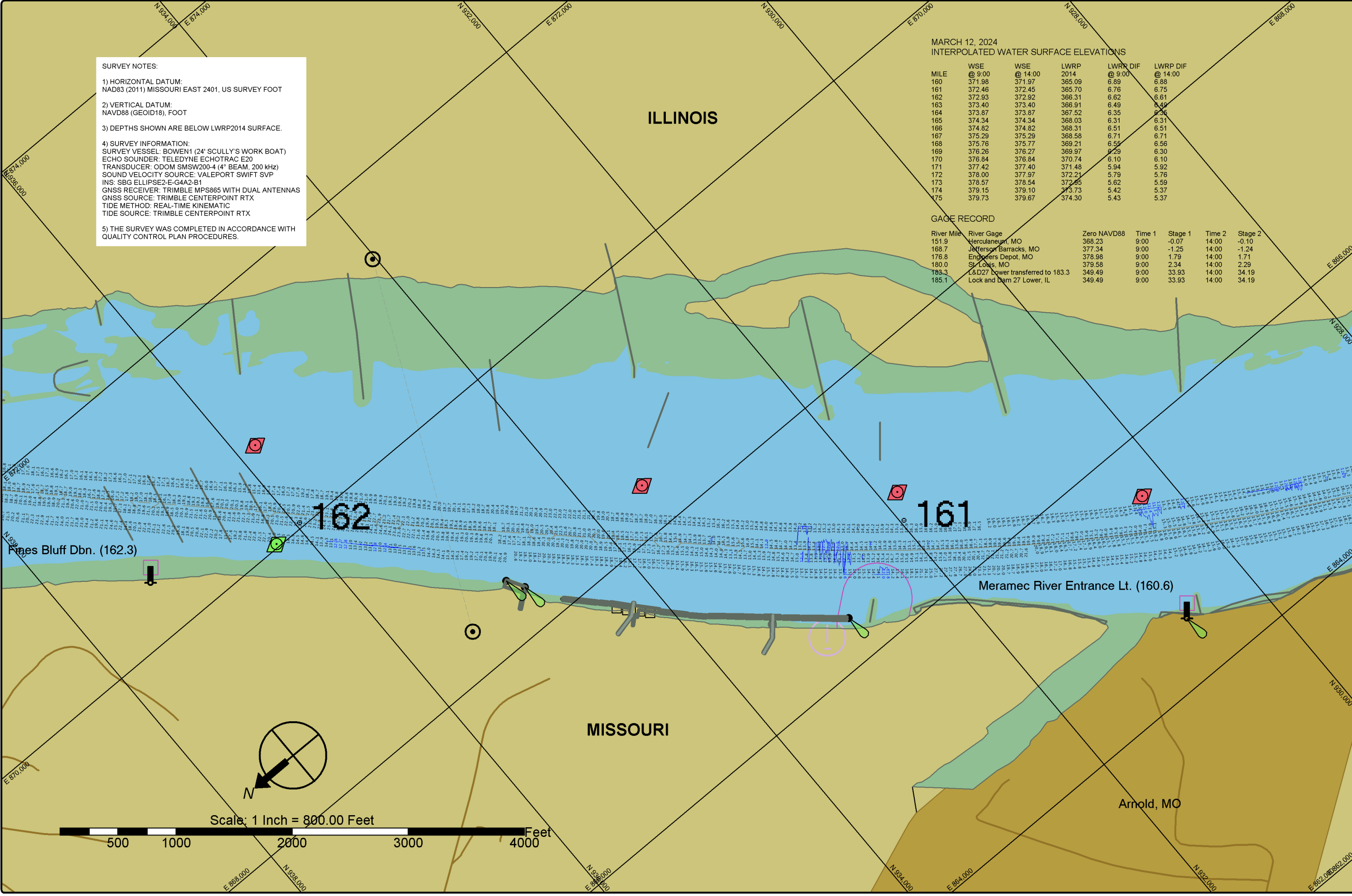
**SHEET NO.**

1 OF 1









MILE	WSE @ 9:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 14:00
160	371.98	371.97	365.09	6.89	6.88
161	372.46	372.45	365.70	6.76	6.75
162	372.93	372.92	366.31	6.62	6.61
163	373.40	373.40	366.91	6.49	6.49
164	373.87	373.87	367.52	6.35	6.35
165	374.34	374.34	368.03	6.31	6.31
166	374.82	374.82	368.31	6.51	6.51
167	375.29	375.29	368.58	6.71	6.71
168	375.76	375.77	369.21	6.55	6.56
169	376.26	376.27	369.97	6.29	6.30
170	376.84	376.84	370.74	6.10	6.10
171	377.42	377.40	371.48	5.94	5.92
172	378.00	377.97	372.21	5.79	5.76
173	378.57	378.54	372.85	5.62	5.59
174	379.15	379.10	373.73	5.42	5.37
175	379.73	379.67	374.30	5.43	5.37

**SURVEY NOTES:**

- HORIZONTAL DATUM: NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- VERTICAL DATUM: NAVD88 (GEOID18), FOOT
- DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.
- 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
- THE SURVEY WAS COMPLETED IN ACCORDANCE WITH QUALITY CONTROL PLAN PROCEDURES.

**MARCH 12, 2024  
INTERPOLATED WATER SURFACE ELEVATIONS**

MILE	WSE @ 9:00	WSE @ 14:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 14:00
160	371.98	371.97	365.09	6.89	6.88
161	372.46	372.45	365.70	6.76	6.75
162	372.93	372.92	366.31	6.62	6.61
163	373.40	373.40	366.91	6.49	6.49
164	373.87	373.87	367.52	6.35	6.35
165	374.34	374.34	368.03	6.31	6.31
166	374.82	374.82	368.31	6.51	6.51
167	375.29	375.29	368.58	6.71	6.71
168	375.76	375.77	369.21	6.55	6.56
169	376.26	376.27	369.97	6.29	6.30
170	376.84	376.84	370.74	6.10	6.10
171	377.42	377.40	371.48	5.94	5.92
172	378.00	377.97	372.21	5.79	5.76
173	378.57	378.54	372.85	5.62	5.59
174	379.15	379.10	373.73	5.42	5.37
175	379.73	379.67	374.30	5.43	5.37

**GAUGE RECORD**

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
151.9	Herculaneum, MO	368.23	9:00	-0.07	14:00	-0.10
168.7	Jefferson Barracks, MO	377.34	9:00	-1.25	14:00	-1.24
176.8	Engineers Depot, MO	378.98	9:00	1.79	14:00	1.71
180.0	St. Louis, MO	379.58	9:00	2.34	14:00	2.29
183.3	L&D27 Lower transferred to 183.3	349.49	9:00	33.93	14:00	34.19
185.1	Lock and Dam 27 Lower, IL	349.49	9:00	33.93	14:00	34.19

**DATES OF SURVEY:**  
MARCH 12, 2024

**FILE NO.:** 185\_160C124  
**REQUEST NO.:** W91P24F029

**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 MEDIAN DRIVE  
CAPE GIRARDEAU, MO 63701

**UPPER MISSISSIPPI RIVER  
BASIN  
MISSISSIPPI RIVER**

**CHANNEL PATROL  
RIVER MILES 160.3 - 162.3**

**SHEET NO.**  
1 OF 1



