



St. Louis District

**SURVEY NOTES:**

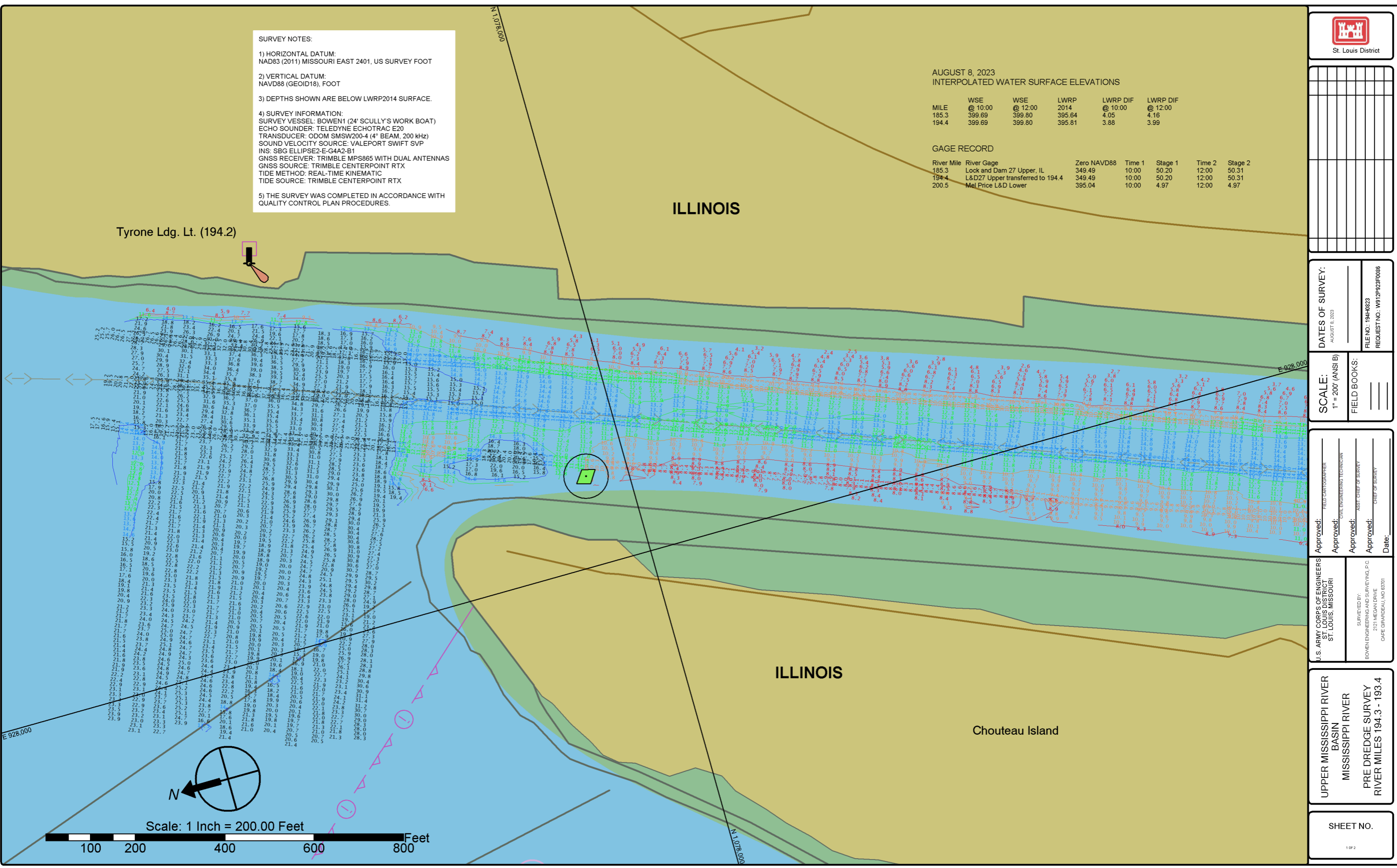
- 1) HORIZONTAL DATUM:  
NAD83 (2011) MISSOURI EAST 2401, US SURVEY FOOT
- 2) VERTICAL DATUM:  
NAVD88 (GEOID18), FOOT
- 3) DEPTHS SHOWN ARE BELOW LWRP2014 SURFACE.
- 4) SURVEY INFORMATION:  
SURVEY VESSEL: BOWEN1 (24' SCULLY'S WORK BOAT)  
ECHO SOUNDER: TELEDYNE ECHOTRAC E20  
TRANSDUCER: ODOM SMSW200-4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

AUGUST 8, 2023  
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 10:00	WSE @ 12:00	LWRP 2014	LWRP DIF @ 10:00	LWRP DIF @ 12:00
185.3	399.69	399.80	395.64	4.05	4.16
194.4	399.69	399.80	395.81	3.88	3.99

**GAGE RECORD**

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
185.3	Lock and Dam 27 Upper, IL	349.49	10:00	50.20	12:00	50.31
194.4	L&D27 Upper transferred to 194.4	349.49	10:00	50.20	12:00	50.31
200.5	Mel Price L&D Lower	395.04	10:00	4.97	12:00	4.97



**DATES OF SURVEY:**  
AUGUST 8, 2023

**SCALE:**  
1" = 200' (ANSI B)

**FIELD BOOKS:**

**FILE NO.:** 194-0823  
**REQUEST NO.:** W01P023F086

**APPROVED:**

FIELD CARTOGRAPHER	DATE:
CIVIL ENGINEERING TECHNICIAN	
ASST. CHIEF OF SURVEY	
CHIEF OF SURVEY	

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

SURVEYED BY:  
BOWEN ENGINEERING AND SURVEYING, P.C.  
2131 MEGAN DRIVE  
CAPE GIRARDEAU, MO 63071

UPPER MISSISSIPPI RIVER  
BASIN  
MISSISSIPPI RIVER  
PRE DREDGE SURVEY  
RIVER MILES 194.3 - 193.4

**SHEET NO.**

1 OF 2

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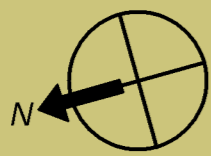
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ILLINOIS

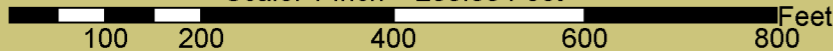
Chain of Rocks Canal Upper Entrance Lt. (1931)

ILLINOIS

Chouteau Island



Scale: 1 Inch = 200.00 Feet





St. Louis District

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<b>SCALE:</b> 1" = 200' (ANSI B)	<b>FIELD BOOKS:</b>
<b>APPROVED:</b> FIELD CHIEF OF PARTY	<b>APPROVED:</b> CIVIL ENGINEERING TECHNICIAN
<b>APPROVED:</b> ASST. CHIEF OF PARTY	<b>APPROVED:</b> CHIEF OF SURVEY
<b>Date:</b>	

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

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

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**UPPER MISSISSIPPI RIVER BASIN**  
**MISSISSIPPI RIVER**  
**PRE DREDGE SURVEY**  
**RIVER MILES 194.3 - 193.4**

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**SHEET NO.**

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