



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.

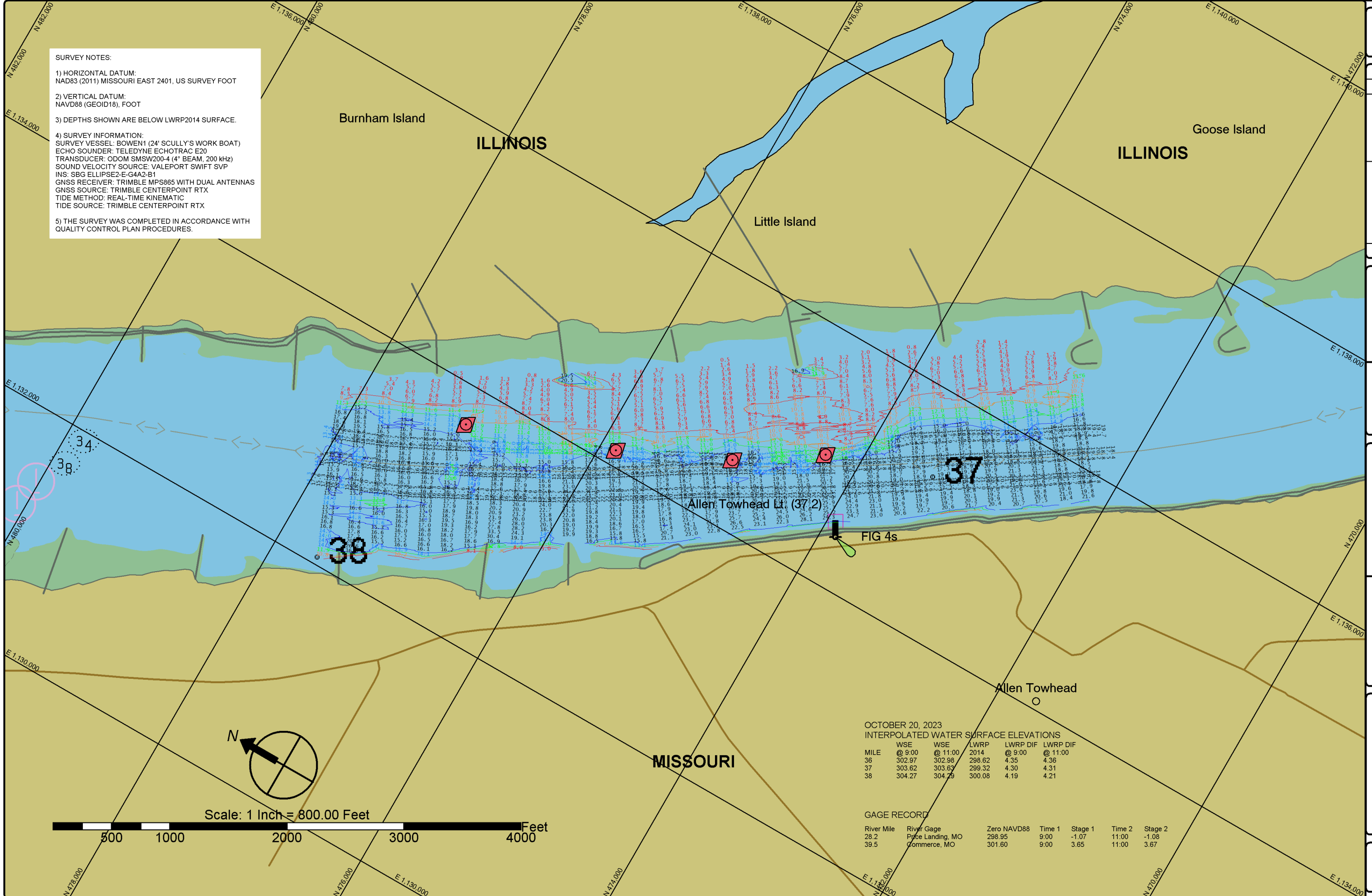
Burnham Island

ILLINOIS

Goose Island

ILLINOIS

Little Island



38

37

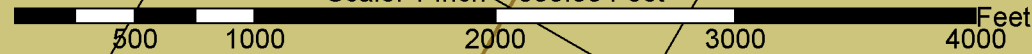
Allen Towhead Lt (37.2)

FIG 4s

Allen Towhead

MISSOURI

Scale: 1 Inch = 800.00 Feet



OCTOBER 20, 2023
 INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 9:00	WSE @ 11:00	LWRP 2014	LWRP DIF @ 9:00	LWRP DIF @ 11:00
36	302.97	302.98	298.62	4.35	4.36
37	303.62	303.63	299.32	4.30	4.31
38	304.27	304.28	300.08	4.19	4.21

GAGE RECORD

River Mile	River Gage	Zero NAVD88	Time 1	Stage 1	Time 2	Stage 2
28.2	Price Landing, MO	298.95	9:00	-1.07	11:00	-1.08
39.5	Commerce, MO	301.60	9:00	3.65	11:00	3.67

DATES OF SURVEY:
 OCTOBER 20, 2023

FILE NO.: 037.2023
 REQUEST NO.: W91P23P086

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
 PRE DREDGE SURVEY
 RIVER MILES 38.0 - 36.8

SHEET NO.