



1. SOUNDED JANUARY 25, 2021 BY BOWEN ENGINEERING AND SURVEYING.
 2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83), COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
 3. VERTICAL DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- Depths shown are below LWRP2014 SURFACE
 Red solid contours are 9' below LWRP2014 SURFACE
 Green dashed contours are 12' below LWRP2014 SURFACE
 Blue dashed contours are 14' below LWRP2014 SURFACE

JANUARY 25, 2021
 INTERPOLATED WATER SURFACE ELEVATIONS

| MILE | WSE | | LWRP 2014 | LWRP DIF | |
|------|---------|---------|-----------|----------|---------|
| | @ 10:00 | @ 12:00 | | @ 10:00 | @ 12:00 |
| 21 | 295.59 | 295.62 | 290.14 | 5.45 | 5.48 |
| 22 | 296.33 | 296.36 | 290.73 | 5.60 | 5.63 |
| 23 | 297.07 | 297.10 | 291.36 | 5.71 | 5.73 |

US Army Corps of Engineers
St. Louis District

| COMMERCE NO | PRECEDENCE | THOMPSON LANDING | BIRDS POINT |
|-------------|-------------------|---------------------|-------------|
| 30160 | 298.95 | 279.03 | 273.91 |
| 3015 | 28.2 | 20.2 | 21.0 |
| 3012 | 284.38 | 289.54 | 280.38 |
| X | 18616000 18616200 | 15.971000 16.001200 | X |

| Surveyed by | Survey Date | Reviewed by | Checked by |
|-------------------|------------------|-------------|------------|
| BOWEN ENGINEERING | JANUARY 25, 2021 | X | X |

| Submitted | Approved | Plot date |
|-----------|----------|-----------|
| X | X | ##/##/## |

U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

PRE DREDGE SURVEY
 RIVER MILES 22.5 - 21.0

PLATE NUMBER
XX