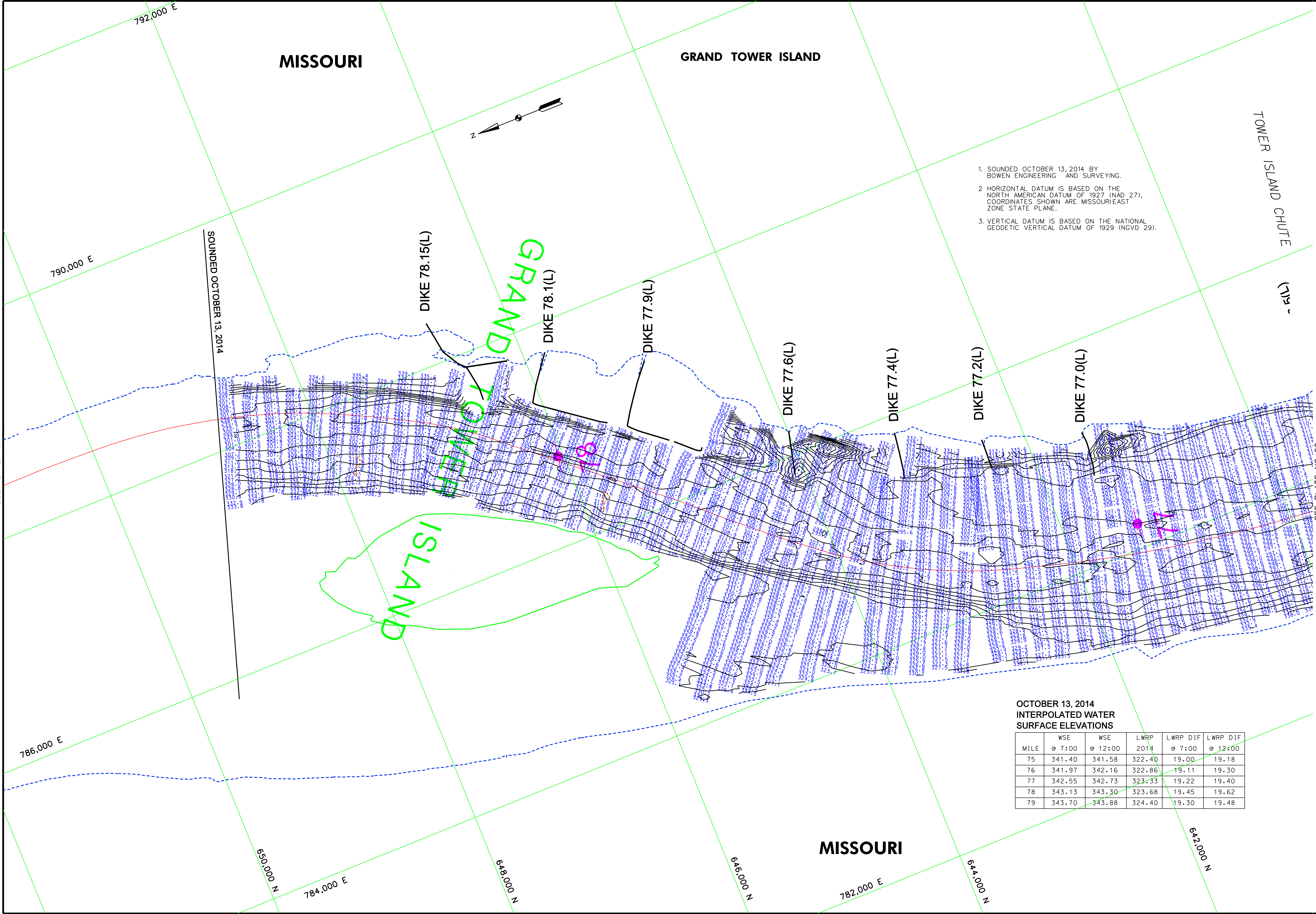




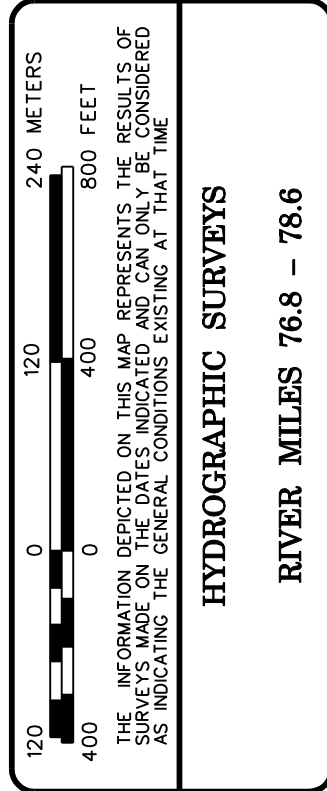
- 1. SOUNDED OCTOBER 13, 2014 BY BOWEN ENGINEERING AND SURVEYING.
- 2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27), COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
- 3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

| OCTOBER 13, 2014<br>INTERPOLATED WATER<br>SURFACE ELEVATIONS |               |                |              |                    |                     |
|--------------------------------------------------------------|---------------|----------------|--------------|--------------------|---------------------|
| MILE                                                         | WSE<br>@ 7:00 | WSE<br>@ 12:00 | LWRP<br>2014 | LWRP DIF<br>@ 7:00 | LWRP DIF<br>@ 12:00 |
| 75                                                           | 341.40        | 341.58         | 322.40       | 19.00              | 19.18               |
| 76                                                           | 341.97        | 342.16         | 322.86       | 19.11              | 19.30               |
| 77                                                           | 342.55        | 342.73         | 323.33       | 19.22              | 19.40               |
| 78                                                           | 343.13        | 343.30         | 323.68       | 19.45              | 19.62               |
| 79                                                           | 343.70        | 343.88         | 324.40       | 19.30              | 19.48               |

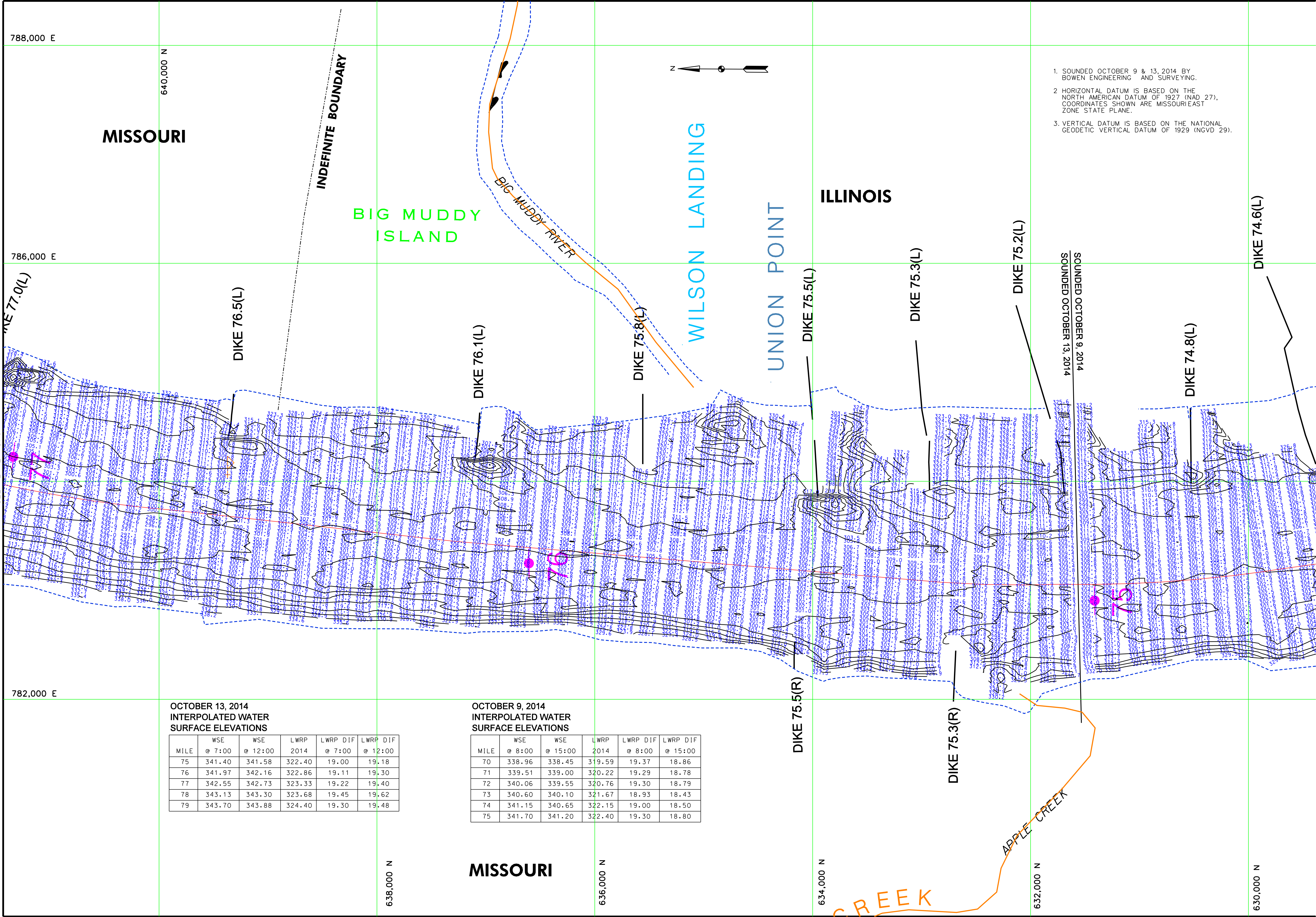


| CAGE RECORD |          |        |         |         |        |
|-------------|----------|--------|---------|---------|--------|
| CPE         | CIRADEAL | MO     | MOCCASH | SPRINGS | MO     |
| 790,000 E   | 304.65   | 313.59 | 321.03  | 328.92  | 338.92 |
| 792,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 788,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 790,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 792,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 794,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 796,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 798,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 800,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 802,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 804,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 806,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 808,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 810,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 812,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 814,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 816,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 818,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 820,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 822,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 824,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 826,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 828,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 830,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 832,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 834,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 836,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 838,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 840,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 842,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 844,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 846,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 848,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 850,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 852,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 854,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 856,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 858,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 860,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 862,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 864,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 866,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 868,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 870,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 872,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 874,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 876,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 878,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 880,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 882,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 884,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 886,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 888,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 890,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 892,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 894,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 896,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 898,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 900,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 902,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 904,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 906,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 908,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 910,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 912,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 914,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 916,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 918,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 920,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 922,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 924,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 926,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 928,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 930,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 932,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 934,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 936,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 938,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 940,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 942,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 944,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 946,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 948,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 950,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 952,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 954,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 956,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 958,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 960,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 962,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 964,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 966,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 968,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 970,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 972,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 974,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 976,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 978,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 980,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 982,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 984,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 986,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 988,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 990,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 992,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 994,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 996,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 998,000 E   | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |
| 1000,000 E  | 321.03   | 328.92 | 338.92  | 344.00  | 350.00 |

|                                                                               |                                  |                   |
|-------------------------------------------------------------------------------|----------------------------------|-------------------|
| U.S. ARMY ENGINEER DIVISION<br>CORPS OF ENGINEERS<br>ST. LOUIS, MISSOURI      | Survey Date:<br>OCTOBER 13, 2014 | Reviewed by:<br>X |
| UPPER MISSISSIPPI RIVER BASIN<br>MISSISSIPPI RIVER<br>RIVER MILES 76.8 - 78.6 | Drawn by:<br>X                   | Approved:<br>X    |
| SUBMITTED:<br>X                                                               |                                  |                   |
| Plot Date:<br>File Name:                                                      |                                  |                   |







OCTOBER 13, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE<br>@ 7:00 | WSE<br>@ 12:00 | LWRP<br>2014 | LWRP DIF<br>@ 7:00 | LWRP DIF<br>@ 12:00 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 75   | 341.40        | 341.58         | 322.40       | 19.00              | 19.18               |
| 76   | 341.97        | 342.16         | 322.86       | 19.11              | 19.30               |
| 77   | 342.55        | 342.73         | 323.33       | 19.22              | 19.40               |
| 78   | 343.13        | 343.30         | 323.68       | 19.45              | 19.62               |
| 79   | 343.70        | 343.88         | 324.40       | 19.30              | 19.48               |

OCTOBER 9, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

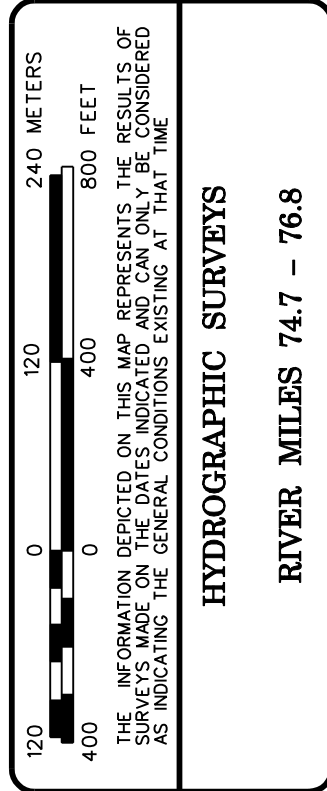
| MILE | WSE<br>@ 8:00 | WSE<br>@ 15:00 | LWRP<br>2014 | LWRP DIF<br>@ 8:00 | LWRP DIF<br>@ 15:00 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 70   | 338.96        | 338.45         | 319.59       | 19.37              | 18.86               |
| 71   | 339.51        | 339.00         | 320.22       | 19.29              | 18.78               |
| 72   | 340.06        | 339.55         | 320.76       | 19.30              | 18.79               |
| 73   | 340.60        | 340.10         | 321.67       | 18.93              | 18.43               |
| 74   | 341.15        | 340.65         | 322.15       | 19.00              | 18.50               |
| 75   | 341.70        | 341.20         | 322.40       | 19.30              | 18.80               |

1. SOUNDED OCTOBER 9 & 13, 2014 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

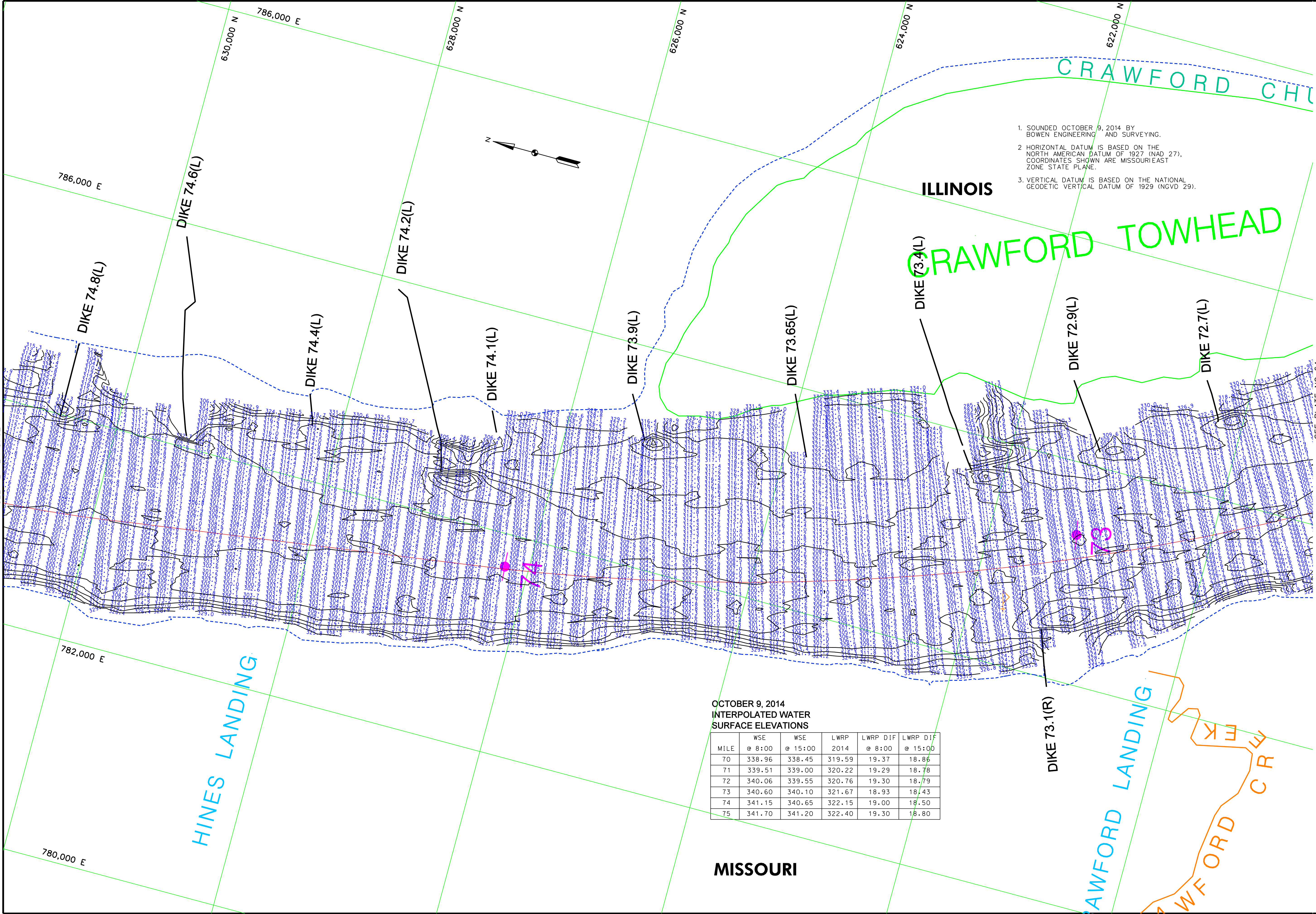


| CAGE RECORD |          |       |         |         |        |
|-------------|----------|-------|---------|---------|--------|
| CPE         | CIRADEAL | MO    | MOCCASH | SPRINGS | MO     |
| ZERO        | NGVD     | 0     | 304.65  | 313.59  | 321.03 |
| MILE        | 2014     | 32.1  | 36.2    | 37.24   | 37.24  |
| 09 OCT 2014 | X        | 30.01 | X       | 32.08   | 32.08  |
| 13 OCT 2014 | X        | X     | X       | 32.08   | 32.08  |
| 13 OCT 2014 | X        | X     | X       | 32.08   | 32.08  |

|                                                                          |                                      |
|--------------------------------------------------------------------------|--------------------------------------|
| U.S. ARMY ENGINEER DIVISION<br>CORPS OF ENGINEERS<br>ST. LOUIS, MISSOURI | Survey Date:<br>OCTOBER 9 & 13, 2014 |
| Drawn by:<br>X                                                           | Reviewed by:<br>X                    |
| Submitted:<br>X                                                          | APPROVED:<br>X                       |
| UPPER MISSISSIPPI RIVER BASIN<br>MISSISSIPPI RIVER                       | Plot Date:<br>File Name:             |







OCTOBER 9, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE<br>@ 8:00 | WSE<br>@ 15:00 | LWRP<br>2014 | LWRP DIF<br>@ 8:00 | LWRP DIF<br>@ 15:00 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 70   | 338.96        | 338.45         | 319.59       | 19.37              | 18.86               |
| 71   | 339.51        | 339.00         | 320.22       | 19.29              | 18.78               |
| 72   | 340.06        | 339.55         | 320.76       | 19.30              | 18.79               |
| 73   | 340.60        | 340.10         | 321.67       | 18.93              | 18.43               |
| 74   | 341.15        | 340.65         | 322.15       | 19.00              | 18.50               |
| 75   | 341.70        | 341.20         | 322.40       | 19.30              | 18.80               |

1. SOUNDED OCTOBER 9, 2014 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

US Army Corps  
of Engineers  
St. Louis District

|             |                         |                         |                         |
|-------------|-------------------------|-------------------------|-------------------------|
| CAGE RECORD | RED ROCK LANDING, MO    | GRAND TOWER, IL         | MOCCASIN SPRINGS, MO    |
| CPE         | 304.65                  | 313.59                  | 313.59                  |
| WSE         | 321.03                  | 321.03                  | 321.03                  |
| LWRP        | 321.03                  | 321.03                  | 321.03                  |
| DATE        | 09 OCT 2014             | 09 OCT 2014             | 09 OCT 2014             |
| FILE NAME   | 23.0518-907.22.5115.001 | 23.0518-907.22.5115.001 | 23.0518-907.22.5115.001 |

U.S. ARMY ENGINEER DIVISION  
CORPS OF ENGINEERS  
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN  
MISSISSIPPI RIVER

Survey Date: OCTOBER 9, 2014

Drawn by: X  
Reviewed by: X

Submitted: X  
Approved: X

Plot Date: File Name: ##PROJECT/FILENAME##

1"=240 METERS  
400' 0' 400' 800' FEET

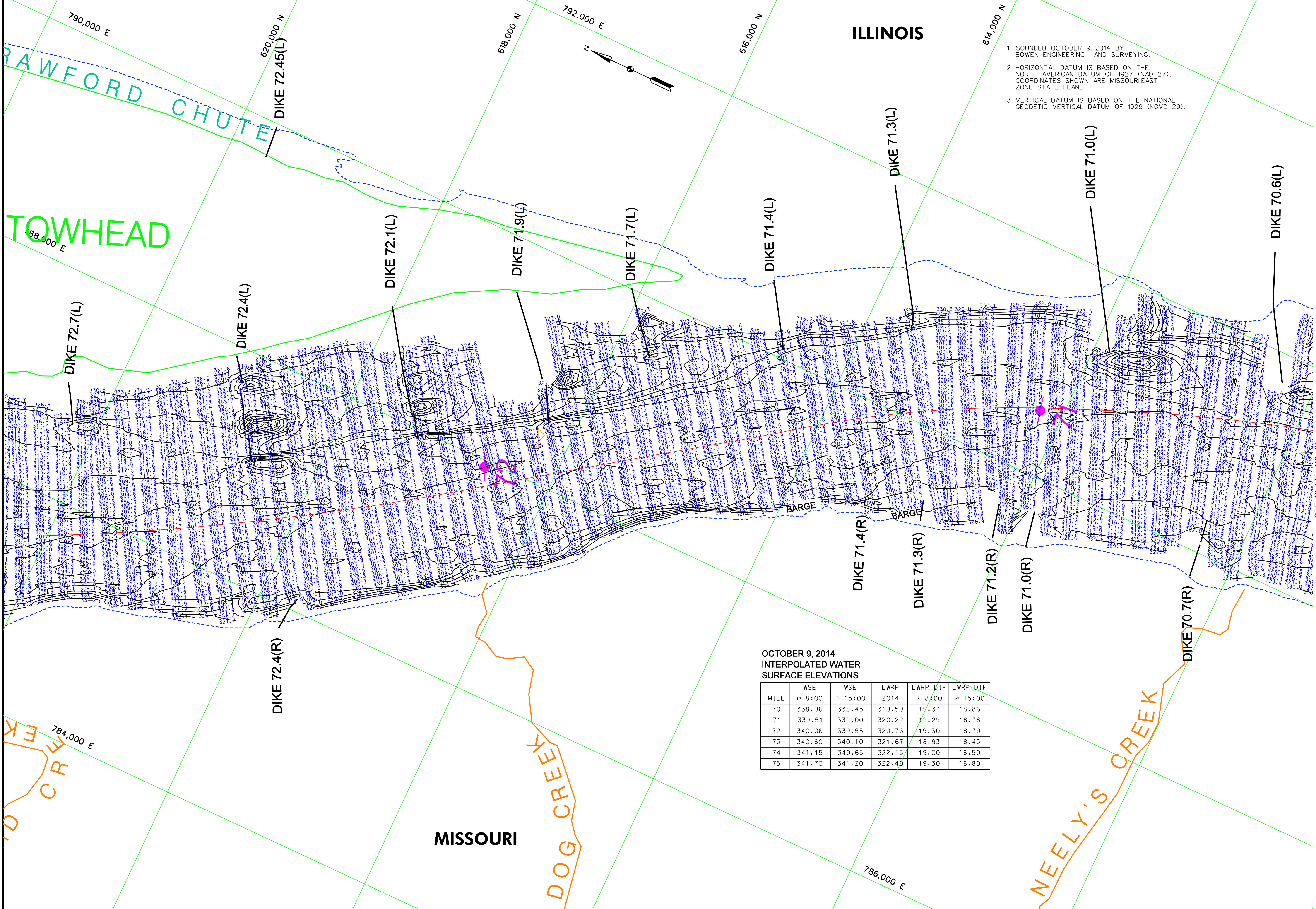
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL LOCATION OF FEATURES AND NOT AS A SUBSTITUTE FOR THE GENERAL SURVEYING RECORD OF THE PROJECT.

HYDROGRAPHIC SURVEYS  
RIVER MILES 72.7 - 74.7

PLATE  
NUMBER

63





OCTOBER 9, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE<br>@ 8:00 | WSE<br>@ 15:00 | LWRP<br>2014 | LWRP DIF<br>@ 8:00 | LWRP DIF<br>@ 15:00 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 70   | 338.96        | 338.45         | 319.59       | 19.37              | 18.86               |
| 71   | 339.51        | 339.00         | 320.22       | 19.29              | 18.78               |
| 72   | 340.06        | 339.55         | 320.76       | 19.30              | 18.79               |
| 73   | 340.60        | 340.10         | 321.67       | 18.93              | 18.43               |
| 74   | 341.15        | 340.65         | 322.15       | 19.00              | 18.50               |
| 75   | 341.70        | 341.20         | 322.40       | 19.30              | 18.80               |

1. SOUNDED OCTOBER 9, 2014 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

|               |             |                     |                                                   |                     |
|---------------|-------------|---------------------|---------------------------------------------------|---------------------|
| CPE           | CIRADEAL MO | MOCCASIN SPRINGS MO | GRAND TOWER L                                     | RED ROCK LANDING MO |
| ZERO N.G.V.D. | 304.65      | 313.59              | 321.03                                            | 328.92              |
| MILE          | 52.0        | 56.3                | 61.0                                              | 64.7                |
| LWRP 2014     | 30.01       | 37.74               | 325.89                                            | 331.05              |
| 09 OCT 2014   | X           | X                   | 23.05(8:00) 23.51(15:00) 23.54(8:00) 23.06(15:00) | X                   |

Surveyed by:  
BOWEN ENGINEERING

Drawn by:  
X

Survey Date:  
OCTOBER 9, 2014

Reviewed by:  
X

Submitted:  
X

Approved:  
X

Plot Date:  
File Name:

##PROJECT/##DATE/##FILENAME

U.S. ARMY ENGINEER DIVISION  
CORPS OF ENGINEERS  
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN  
MISSISSIPPI RIVER

1"=240 METERS  
0 120 240  
0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS AN INDICATION OF GENERAL CONDITIONS EXISTING AT THAT TIME.

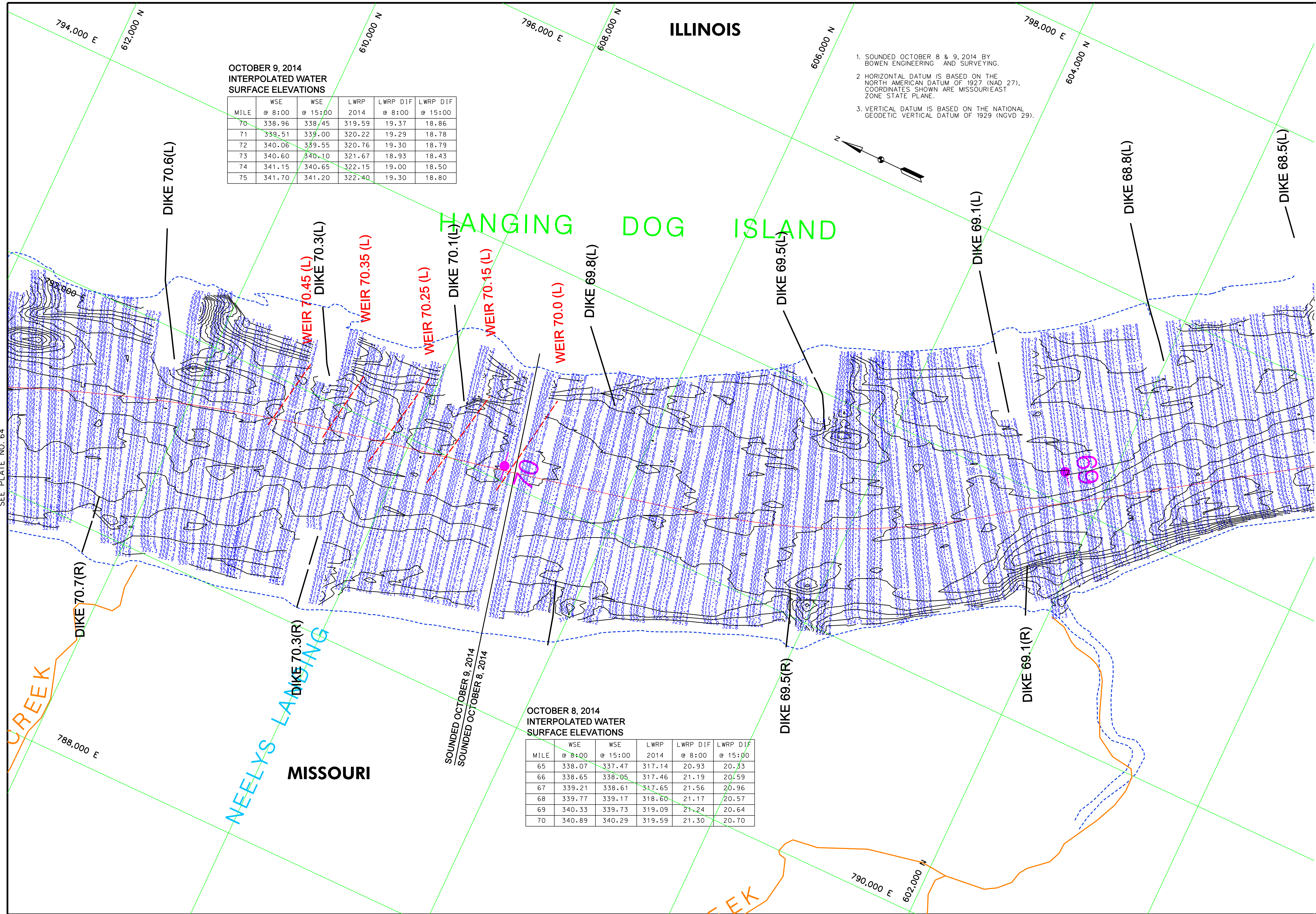
HYDROGRAPHIC SURVEYS

RIVER MILES 70.7 - 72.7

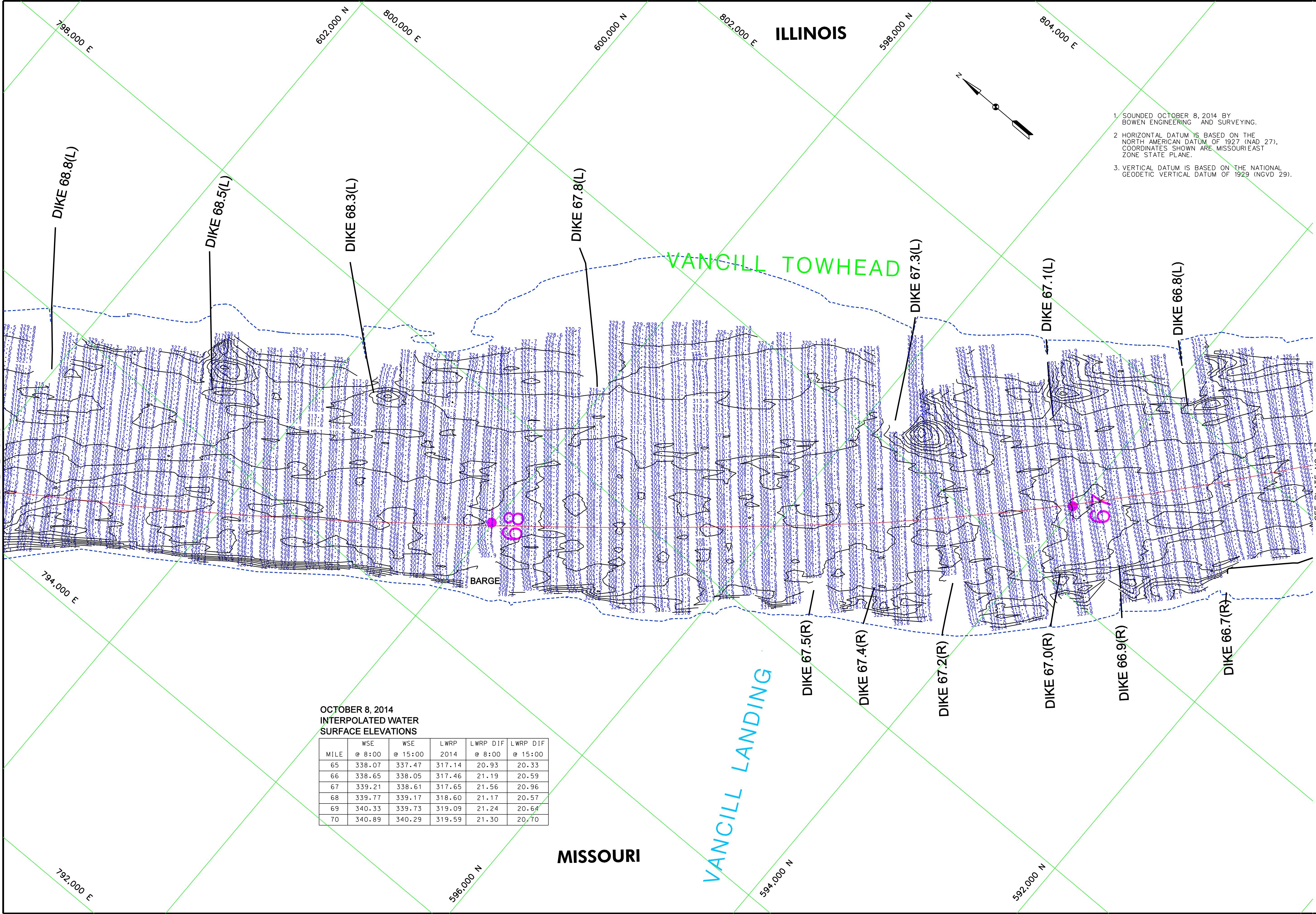
PLATE NUMBER

64









- 1. SOUNDED OCTOBER 8, 2014 BY BOWEN ENGINEERING AND SURVEYING.
- 2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
- 3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

OCTOBER 8, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE @ 8:00 | WSE @ 15:00 | LWRP 2014 | LWRP DIF @ 8:00 | LWRP DIF @ 15:00 |
|------|------------|-------------|-----------|-----------------|------------------|
| 65   | 338.07     | 337.47      | 317.14    | 20.93           | 20.33            |
| 66   | 338.65     | 338.05      | 317.46    | 21.19           | 20.59            |
| 67   | 339.21     | 338.61      | 317.65    | 21.56           | 20.96            |
| 68   | 339.77     | 339.17      | 318.60    | 21.17           | 20.57            |
| 69   | 340.33     | 339.73      | 319.09    | 21.24           | 20.64            |
| 70   | 340.89     | 340.29      | 319.59    | 21.30           | 20.70            |

US Army Corps of Engineers  
St. Louis District

|                 |                      |                 |                      |
|-----------------|----------------------|-----------------|----------------------|
| CAGE RECORD     | CAGE RECORD          | CAGE RECORD     | CAGE RECORD          |
| CPE CIPADEAL MO | MOCCASIN SPRINGS, MO | GRAND TOWER, IL | RED ROCK LANDING, MO |
| 304.65          | 313.59               | 321.03          | 328.92               |
| 352.0           | 366.3                | 381.0           | 394.7                |
| 370.01          | 377.34               | 325.89          | 331.05               |
| 25.93/8/00      | 25.41/15/00          | 24.93/8/00      | 25.61/6/00           |
| 25.31/5/00      | 25.31/5/00           | 25.61/6/00      | 25.00/15/00          |
|                 |                      |                 |                      |
|                 |                      |                 |                      |
|                 |                      |                 |                      |

|                                   |                                 |                   |
|-----------------------------------|---------------------------------|-------------------|
| Surveyed by:<br>BOWEN ENGINEERING | Survey Date:<br>OCTOBER 8, 2014 | Reviewed by:<br>X |
| Drawn by:<br>X                    | Cad by:<br>X                    | APPROVED:<br>X    |
| SUBMITTED:<br>X                   |                                 |                   |
| Plot Scale:<br>File Name:         | ##PROJECT##<br>##PROJECT##      |                   |

U.S. ARMY ENGINEER DIVISION  
CORPS OF ENGINEERS  
ST. LOUIS, MISSOURI

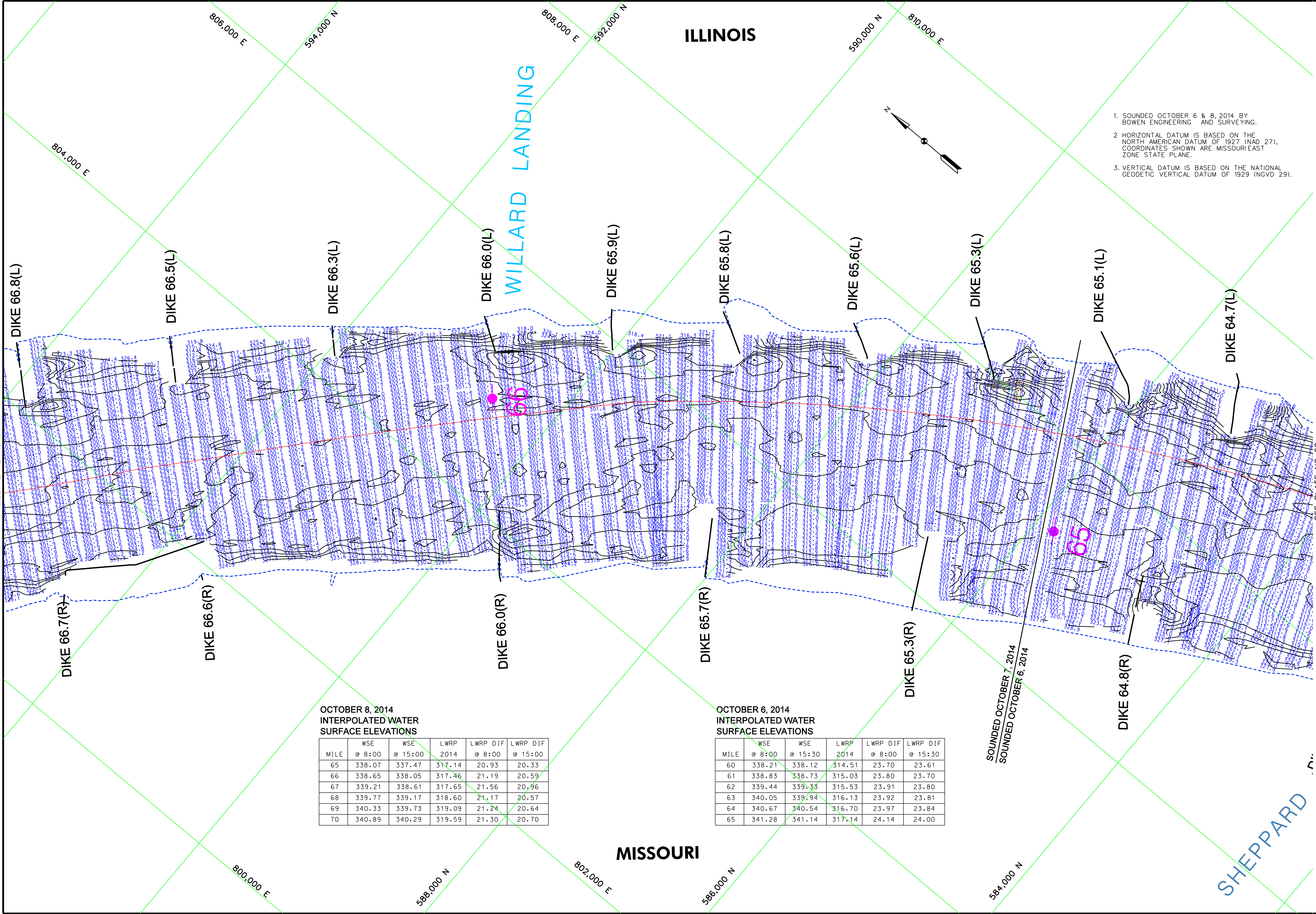
UPPER MISSISSIPPI RIVER BASIN  
MISSISSIPPI RIVER

HYDROGRAPHIC SURVEYS  
RIVER MILES 66.7 - 68.7

PLATE NUMBER  
66

1"=240 METERS  
0 100 240 METERS  
0 400 800 FEET  
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL LOCATIONS OF FEATURES SHOWN.





OCTOBER 8, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE<br>@ 8:00 | WSE<br>@ 15:00 | LWRP<br>2014 | LWRP DIF<br>@ 8:00 | LWRP DIF<br>@ 15:00 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 65   | 338.07        | 337.47         | 317.14       | 20.93              | 20.33               |
| 66   | 338.65        | 338.05         | 317.46       | 21.19              | 20.59               |
| 67   | 339.21        | 338.61         | 317.65       | 21.56              | 20.96               |
| 68   | 339.77        | 339.17         | 318.60       | 21.17              | 20.57               |
| 69   | 340.33        | 339.73         | 319.09       | 21.24              | 20.64               |
| 70   | 340.89        | 340.29         | 319.59       | 21.30              | 20.70               |

OCTOBER 6, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE<br>@ 8:00 | WSE<br>@ 15:30 | LWRP<br>2014 | LWRP DIF<br>@ 8:00 | LWRP DIF<br>@ 15:30 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 60   | 338.21        | 338.12         | 314.51       | 23.70              | 23.61               |
| 61   | 338.83        | 338.73         | 315.03       | 23.80              | 23.70               |
| 62   | 339.44        | 339.33         | 315.53       | 23.91              | 23.80               |
| 63   | 340.05        | 339.94         | 316.13       | 23.92              | 23.81               |
| 64   | 340.67        | 340.54         | 316.70       | 23.97              | 23.84               |
| 65   | 341.28        | 341.14         | 317.14       | 24.14              | 24.00               |



1. SOUNDED OCTOBER 6 & 8, 2014 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

| CAGE RECORD   |                          | RED ROCK LANDING, MO |
|---------------|--------------------------|----------------------|
| ZERO N.G.V.D. | GRAND TOWER, L.          | 328.92               |
| MILE          | 304.65                   | 321.03               |
| LWRP 2014     | 304.01                   | 321.03               |
| 05 OCT 2014   | 28.718(00) 28.718(15.30) | 325.09               |
| 08 OCT 2014   | 25.335(00) 25.335(15.00) | 325.09               |

|                                                                          |                                  |
|--------------------------------------------------------------------------|----------------------------------|
| U.S. ARMY ENGINEER DIVISION<br>CORPS OF ENGINEERS<br>ST. LOUIS, MISSOURI | Survey Date: OCTOBER 6 & 8, 2014 |
| Drawn by: X                                                              | Reviewed by: X                   |
| Submitted: X                                                             | APPROVED: X                      |
| Plot Date: File Name: ##PROJECT##                                        |                                  |

HYDROGRAPHIC SURVEYS

RIVER MILES 64.7 - 66.7

120 0 100 240 METERS

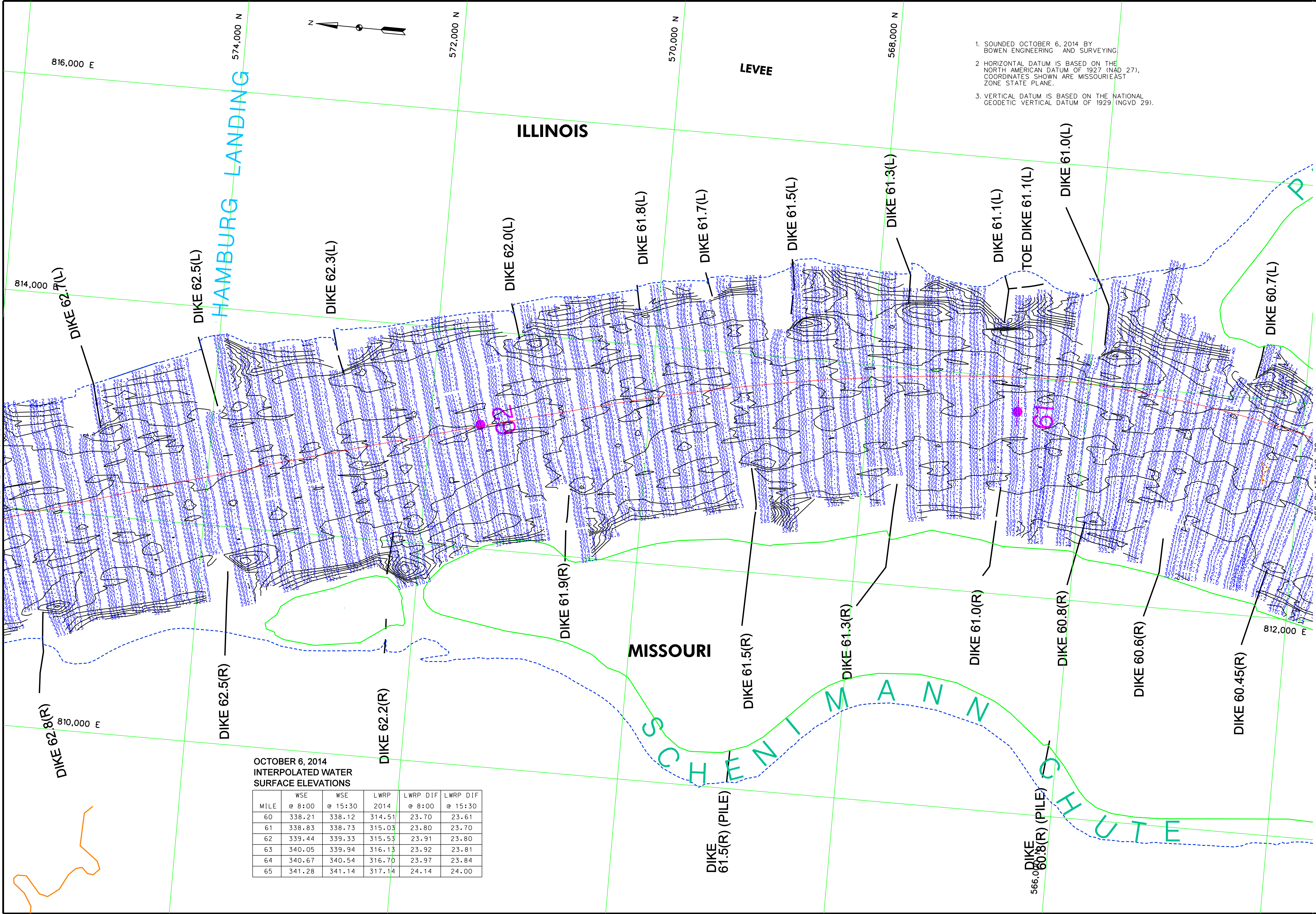
400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS AN INDICATION OF GENERAL SURVEY RESULTS AT THAT TIME.









OCTOBER 6, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE<br>@ 8:00 | WSE<br>@ 15:30 | LWRP<br>2014 | LWRP DIF<br>@ 8:00 | LWRP DIF<br>@ 15:30 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 60   | 338.21        | 338.12         | 314.51       | 23.70              | 23.61               |
| 61   | 338.83        | 338.73         | 315.03       | 23.80              | 23.70               |
| 62   | 339.44        | 339.33         | 315.53       | 23.91              | 23.80               |
| 63   | 340.05        | 339.94         | 316.13       | 23.92              | 23.81               |
| 64   | 340.67        | 340.54         | 316.70       | 23.97              | 23.84               |
| 65   | 341.28        | 341.14         | 317.14       | 24.14              | 24.00               |

1. SOUNDED OCTOBER 6, 2014 BY  
BOWEN ENGINEERING AND SURVEYING
2. HORIZONTAL DATUM IS BASED ON THE  
NORTH AMERICAN DATUM OF 1927 (NAD 27),  
COORDINATES SHOWN ARE MISSOURI EAST  
ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL  
GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

US Army Corps  
of Engineers  
St. Louis District

| CAPE          | CHESAPEAKE, MO           | MOCCASIN SPRINGS, MO     | GRAND TOWER, L | RED ROCK LANDING, MO |
|---------------|--------------------------|--------------------------|----------------|----------------------|
| ZERO N.G.V.D. | 304.65                   | 313.59                   | 321.03         | 328.92               |
| MILE          | 32                       | 36.2                     | 61.8           | 94                   |
| LWRP 2014     | 310.01                   | 317.34                   | 323.09         | 331.05               |
| 06 OCT 2014   | 28.716/007 25.701/15.301 | 28.916/007 25.041/15.301 | X              | X                    |

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Surveyed by:<br>BOWEN ENGINEERING | Survey Date:<br>OCTOBER 6, 2014 |
| Drawn by:<br>X                    | Checked by:<br>X                |
| Submitted by:<br>X                | Reviewed by:<br>X               |
| APPROVED:<br>X                    |                                 |

U.S. ARMY ENGINEER DIVISION  
CORPS OF ENGINEERS  
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN  
MISSISSIPPI RIVER

HYDROGRAPHIC SURVEYS

RIVER MILES 60.6 - 62.7

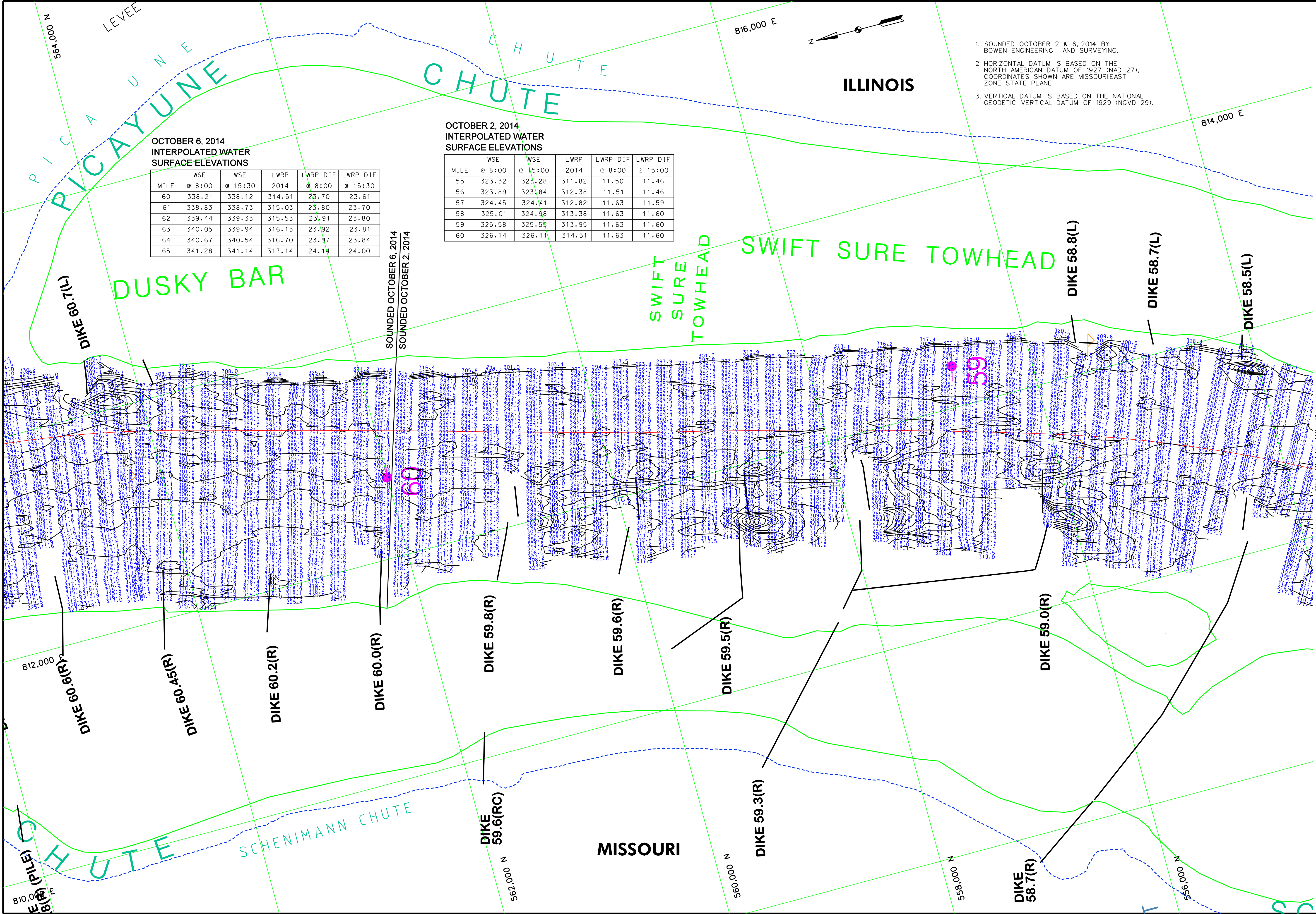
PLATE  
NUMBER

69

SEE PLATE NO. 68

SEE PLATE NO. 70





OCTOBER 6, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE<br>@ 8:00 | WSE<br>@ 15:30 | LWRP<br>2014 | LWRP DIF<br>@ 8:00 | LWRP DIF<br>@ 15:30 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 60   | 338.21        | 338.12         | 314.51       | 23.70              | 23.61               |
| 61   | 338.83        | 338.73         | 315.03       | 23.80              | 23.70               |
| 62   | 339.44        | 339.33         | 315.53       | 23.91              | 23.80               |
| 63   | 340.05        | 339.94         | 316.13       | 23.92              | 23.81               |
| 64   | 340.67        | 340.54         | 316.70       | 23.97              | 23.84               |
| 65   | 341.28        | 341.14         | 317.14       | 24.14              | 24.00               |

OCTOBER 2, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE<br>@ 8:00 | WSE<br>@ 15:00 | LWRP<br>2014 | LWRP DIF<br>@ 8:00 | LWRP DIF<br>@ 15:00 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 55   | 323.32        | 323.28         | 311.82       | 11.50              | 11.46               |
| 56   | 323.89        | 323.84         | 312.38       | 11.51              | 11.46               |
| 57   | 324.45        | 324.41         | 312.82       | 11.63              | 11.59               |
| 58   | 325.01        | 324.98         | 313.38       | 11.63              | 11.60               |
| 59   | 325.58        | 325.55         | 313.95       | 11.63              | 11.60               |
| 60   | 326.14        | 326.11         | 314.51       | 11.63              | 11.60               |

1. SOUNDED OCTOBER 2 & 6, 2014 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

US Army Corps  
of Engineers  
St. Louis District

| CAGE RECORD    |        | CAGE RECORD         |                      |
|----------------|--------|---------------------|----------------------|
| CPPE CAGE REF. | MO     | MOCCASH SPRINGS, MO | RED ROCK LANDING, MO |
| 55             | 304.65 | 313.59              | 328.92               |
| 56             | 320.01 | 317.24              | 344.00               |
| 57             | 320.01 | 317.24              | 350.00               |
| 58             | 320.01 | 317.24              | 350.00               |
| 59             | 320.01 | 317.24              | 350.00               |
| 60             | 320.01 | 317.24              | 350.00               |

U.S. ARMY ENGINEER DIVISION  
CORPS OF ENGINEERS  
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN  
MISSISSIPPI RIVER

HYDROGRAPHIC SURVEYS  
RIVER MILES 58.5 - 60.6

PLATE NUMBER  
70

Scale: 0 to 240 METERS / 0 to 800 FEET  
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL SURVEY RESULTS OF THAT TIME.

Surveyed by: BOWEN ENGINEERING  
Drawn by: X  
Checked by: X  
Reviewed by: X  
SUBMITTED: X  
APPROVED: X  
Plot Date: File Name: #BOWEN/ENGINEERING







SEE PLATE NO. 71

SEE PLATE NO. 71B



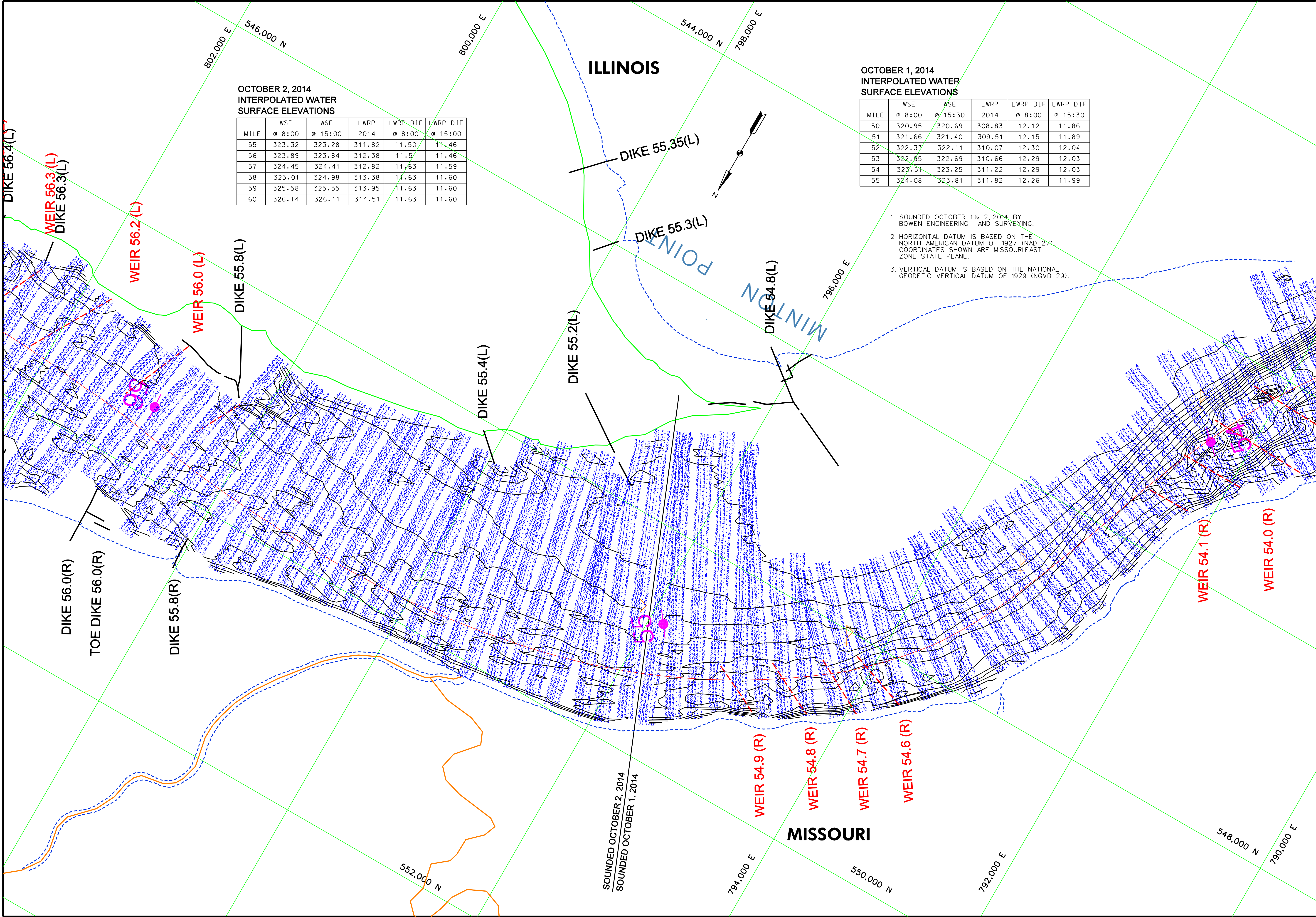
OCTOBER 2, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE    |         | LWRP<br>2014 | LWRP DIF |         |
|------|--------|---------|--------------|----------|---------|
|      | @ 8:00 | @ 15:00 |              | @ 8:00   | @ 15:00 |
| 55   | 323.32 | 323.28  | 311.82       | 11.50    | 11.46   |
| 56   | 323.89 | 323.84  | 312.38       | 11.51    | 11.46   |
| 57   | 324.45 | 324.41  | 312.82       | 11.63    | 11.59   |
| 58   | 325.01 | 324.98  | 313.38       | 11.63    | 11.60   |
| 59   | 325.58 | 325.55  | 313.95       | 11.63    | 11.60   |
| 60   | 326.14 | 326.11  | 314.51       | 11.63    | 11.60   |

OCTOBER 1, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE    |         | LWRP<br>2014 | LWRP DIF |         |
|------|--------|---------|--------------|----------|---------|
|      | @ 8:00 | @ 15:30 |              | @ 8:00   | @ 15:30 |
| 50   | 320.95 | 320.69  | 308.83       | 12.12    | 11.86   |
| 51   | 321.66 | 321.40  | 309.51       | 12.15    | 11.89   |
| 52   | 322.37 | 322.11  | 310.07       | 12.30    | 12.04   |
| 53   | 322.95 | 322.69  | 310.66       | 12.29    | 12.03   |
| 54   | 323.51 | 323.25  | 311.22       | 12.29    | 12.03   |
| 55   | 324.08 | 323.81  | 311.82       | 12.26    | 11.99   |

1. SOUNDED OCTOBER 1 & 2, 2014, BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



SEE PLATE NO. 73

U.S. ARMY ENGINEER DIVISION  
CORPS OF ENGINEERS  
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN  
MISSISSIPPI RIVER

Surveyed by:  
BOWEN ENGINEERING

Drawn by:  
X

Submitted:  
X

Plot Date:  
File Name:

Survey Date:  
OCTOBER 1 & 2, 2014

Checked by:  
X

Reviewed by:  
X

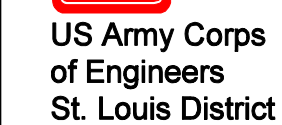
APPROVED:  
X

120  
400  
800  
1200  
0  
100  
200  
400  
600  
800  
1000  
1200  
METERS  
0  
400  
800  
1200  
FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL LOCATIONS OF THE FEATURES SHOWN.

HYDROGRAPHIC SURVEYS  
RIVER MILES 53.9 - 56.1



[illegible]

|                                                                          |  |                                   |                |                                 |  |
|--------------------------------------------------------------------------|--|-----------------------------------|----------------|---------------------------------|--|
| SEE PLATE NO. 74                                                         |  | Surveyed by:<br>BOWEN ENGINEERING |                | Survey Date:<br>OCTOBER 1, 2014 |  |
| U.S. ARMY ENGINEER DIVISION<br>CORPS OF ENGINEERS<br>ST. LOUIS, MISSOURI |  | Drawn by:<br>X                    | Ckd by:<br>X   | Reviewed by:<br>X               |  |
| UPPER MISSISSIPPI RIVER BASIN<br>MISSISSIPPI RIVER                       |  | SUBMITTED:<br>X                   | APPROVED:<br>X |                                 |  |
|                                                                          |  | Plot date: #####DATE TIME####     |                |                                 |  |

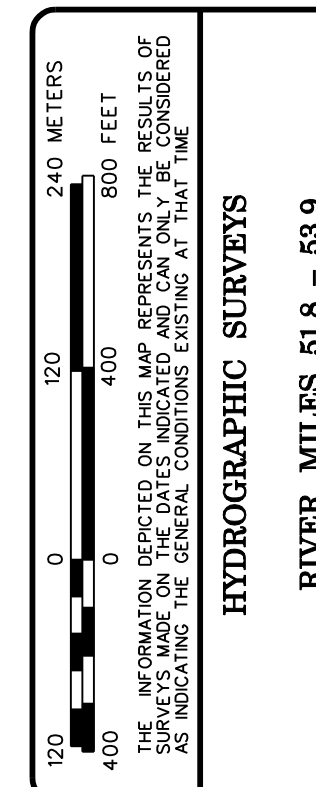


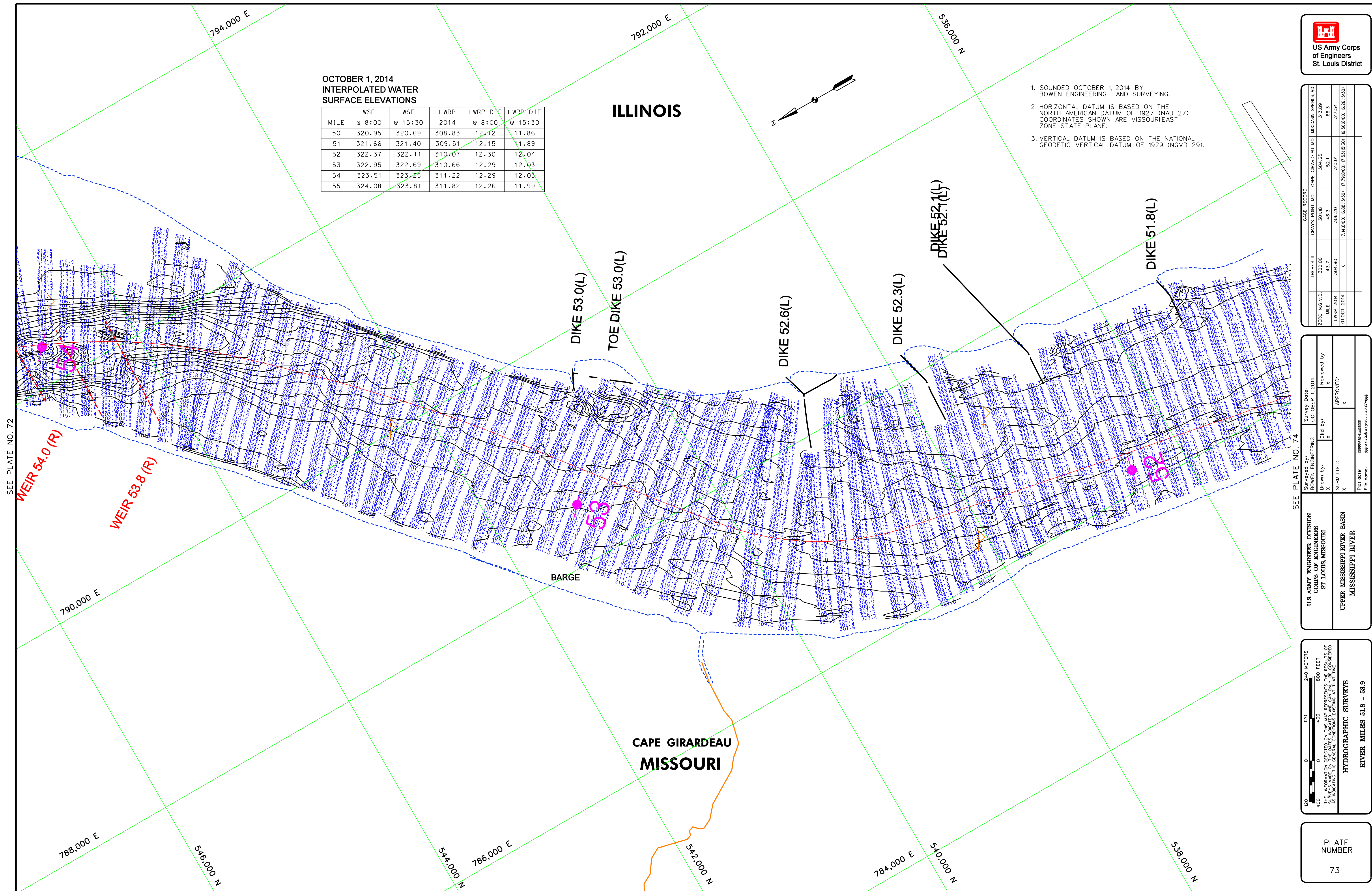
PLATE  
NUMBER

73

OCTOBER 1, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

|      | WSE    | WSE     | LWRP   | LWRP DIF | LWRP DIF |
|------|--------|---------|--------|----------|----------|
| MILE | @ 8:00 | @ 15:30 | 2014   | @ 8:00   | @ 15:30  |
| 50   | 320.95 | 320.69  | 308.83 | 12.12    | 11.86    |
| 51   | 321.66 | 321.40  | 309.51 | 12.15    | 11.89    |
| 52   | 322.37 | 322.11  | 310.07 | 12.30    | 12.04    |
| 53   | 322.95 | 322.69  | 310.66 | 12.29    | 12.03    |
| 54   | 323.51 | 323.25  | 311.22 | 12.29    | 12.03    |
| 55   | 324.08 | 323.81  | 311.82 | 12.26    | 11.99    |

1. SOUNDED OCTOBER 1, 2014 BY  
BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE  
NORTH AMERICAN DATUM OF 1927 (NAD 27),  
COORDINATES SHOWN ARE MISSOURIEAST  
ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL  
GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).



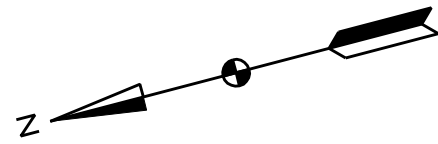


OCTOBER 1, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE<br>@ 8:00 | WSE<br>@ 15:30 | LWRP<br>2014 | LWRP DIF<br>@ 8:00 | LWRP DIF<br>@ 15:30 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 50   | 320.95        | 320.69         | 308.83       | 12.12              | 11.86               |
| 51   | 321.66        | 321.40         | 309.51       | 12.15              | 11.89               |
| 52   | 322.37        | 322.11         | 310.07       | 12.30              | 12.04               |
| 53   | 322.95        | 322.69         | 310.66       | 12.29              | 12.03               |
| 54   | 323.51        | 323.25         | 311.22       | 12.29              | 12.03               |
| 55   | 324.08        | 323.81         | 311.82       | 12.26              | 11.99               |

SEPTEMBER 30, 2014  
INTERPOLATED WATER  
SURFACE ELEVATIONS

| MILE | WSE<br>@ 8:00 | WSE<br>@ 15:30 | LWRP<br>2014 | LWRP DIF<br>@ 8:00 | LWRP DIF<br>@ 15:30 |
|------|---------------|----------------|--------------|--------------------|---------------------|
| 44   | 317.45        | 317.31         | 304.85       | 12.60              | 12.46               |
| 45   | 318.08        | 317.96         | 305.49       | 12.59              | 12.47               |
| 46   | 318.70        | 318.60         | 306.09       | 12.61              | 12.51               |
| 47   | 319.39        | 319.28         | 306.71       | 12.68              | 12.57               |
| 48   | 320.10        | 319.99         | 307.25       | 12.85              | 12.74               |
| 49   | 320.81        | 320.69         | 307.87       | 12.94              | 12.82               |
| 50   | 321.52        | 321.40         | 308.83       | 12.69              | 12.57               |



ILLINOIS

1. SOUNDED SEPTEMBER 30, 2014 AND OCTOBER 1, 2014 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

GIBONEY ISLAND

CAPE B

DIKE 50.2(L)

DIKE 49.6(L)

DIKE 50.1(L)

DIKE 50.5(L)

DIKE 50.6(L)

DIKE 50.7(L)

DIKE 51.0(L)

DIKE 51.4(L)

DIKE 51.8(L)

BARGE

BARGE

BARGE

BARGE

BARGE

BARGE

MISSOURI

CAPE GIRARDEAU

IX CREEK

SOUNDED SEPTEMBER 30, 2014  
SOUNDED OCTOBER 1, 2014



| THREES I.L. | GRAYS POINT, MO | CAPE GIRARDEAU, MO | MOCCASH SPRINGS, MO |
|-------------|-----------------|--------------------|---------------------|
| 300.00      | 301.18          | 304.65             | 313.89              |
| 313.7       | 315.3           | 321.3              | 331.9               |
| 324.20      | 326.20          | 332.01             | 347.34              |
| 335.00      | 341.00          | 351.00             | 362.00              |
| 346.00      | 352.00          | 361.00             | 372.00              |
| 357.00      | 363.00          | 371.00             | 382.00              |
| 368.00      | 374.00          | 381.00             | 392.00              |
| 379.00      | 385.00          | 391.00             | 402.00              |
| 390.00      | 396.00          | 401.00             | 412.00              |
| 401.00      | 407.00          | 411.00             | 422.00              |
| 412.00      | 418.00          | 421.00             | 432.00              |
| 423.00      | 429.00          | 431.00             | 442.00              |
| 434.00      | 440.00          | 441.00             | 452.00              |
| 445.00      | 451.00          | 451.00             | 462.00              |
| 456.00      | 462.00          | 461.00             | 472.00              |
| 467.00      | 473.00          | 471.00             | 482.00              |
| 478.00      | 484.00          | 481.00             | 492.00              |
| 489.00      | 495.00          | 491.00             | 502.00              |
| 500.00      | 506.00          | 501.00             | 512.00              |
| 511.00      | 517.00          | 511.00             | 522.00              |
| 522.00      | 528.00          | 521.00             | 532.00              |
| 533.00      | 539.00          | 531.00             | 542.00              |
| 544.00      | 550.00          | 541.00             | 552.00              |
| 555.00      | 561.00          | 551.00             | 562.00              |
| 566.00      | 572.00          | 561.00             | 572.00              |
| 577.00      | 583.00          | 571.00             | 582.00              |
| 588.00      | 594.00          | 581.00             | 592.00              |
| 599.00      | 605.00          | 591.00             | 602.00              |
| 610.00      | 616.00          | 601.00             | 612.00              |
| 621.00      | 627.00          | 611.00             | 622.00              |
| 632.00      | 638.00          | 621.00             | 632.00              |
| 643.00      | 649.00          | 631.00             | 642.00              |
| 654.00      | 660.00          | 641.00             | 652.00              |
| 665.00      | 671.00          | 651.00             | 662.00              |
| 676.00      | 682.00          | 661.00             | 672.00              |
| 687.00      | 693.00          | 671.00             | 682.00              |
| 698.00      | 704.00          | 681.00             | 692.00              |
| 709.00      | 715.00          | 691.00             | 702.00              |
| 720.00      | 726.00          | 701.00             | 712.00              |
| 731.00      | 737.00          | 711.00             | 722.00              |
| 742.00      | 748.00          | 721.00             | 732.00              |
| 753.00      | 759.00          | 731.00             | 742.00              |
| 764.00      | 770.00          | 741.00             | 752.00              |
| 775.00      | 781.00          | 751.00             | 762.00              |
| 786.00      | 792.00          | 761.00             | 772.00              |
| 797.00      | 803.00          | 771.00             | 782.00              |
| 808.00      | 814.00          | 781.00             | 792.00              |
| 819.00      | 825.00          | 791.00             | 802.00              |
| 830.00      | 836.00          | 801.00             | 812.00              |
| 841.00      | 847.00          | 811.00             | 822.00              |
| 852.00      | 858.00          | 821.00             | 832.00              |
| 863.00      | 869.00          | 831.00             | 842.00              |
| 874.00      | 880.00          | 841.00             | 852.00              |
| 885.00      | 891.00          | 851.00             | 862.00              |
| 896.00      | 902.00          | 861.00             | 872.00              |
| 907.00      | 913.00          | 871.00             | 882.00              |
| 918.00      | 924.00          | 881.00             | 892.00              |
| 929.00      | 935.00          | 891.00             | 902.00              |
| 940.00      | 946.00          | 901.00             | 912.00              |
| 951.00      | 957.00          | 911.00             | 922.00              |
| 962.00      | 968.00          | 921.00             | 932.00              |
| 973.00      | 979.00          | 931.00             | 942.00              |
| 984.00      | 990.00          | 941.00             | 952.00              |
| 995.00      | 1001.00         | 951.00             | 962.00              |
| 1006.00     | 1012.00         | 961.00             | 972.00              |
| 1017.00     | 1023.00         | 971.00             | 982.00              |
| 1028.00     | 1034.00         | 981.00             | 992.00              |
| 1039.00     | 1045.00         | 991.00             | 1002.00             |
| 1050.00     | 1056.00         | 1001.00            | 1012.00             |
| 1061.00     | 1067.00         | 1011.00            | 1022.00             |
| 1072.00     | 1078.00         | 1021.00            | 1032.00             |
| 1083.00     | 1089.00         | 1031.00            | 1042.00             |
| 1094.00     | 1100.00         | 1041.00            | 1052.00             |
| 1105.00     | 1111.00         | 1051.00            | 1062.00             |
| 1116.00     | 1122.00         | 1061.00            | 1072.00             |
| 1127.00     | 1133.00         | 1071.00            | 1082.00             |
| 1138.00     | 1144.00         | 1081.00            | 1092.00             |
| 1149.00     | 1155.00         | 1091.00            | 1102.00             |
| 1160.00     | 1166.00         | 1101.00            | 1112.00             |
| 1171.00     | 1177.00         | 1111.00            | 1122.00             |
| 1182.00     | 1188.00         | 1121.00            | 1132.00             |
| 1193.00     | 1199.00         | 1131.00            | 1142.00             |
| 1204.00     | 1210.00         | 1141.00            | 1152.00             |
| 1215.00     | 1221.00         | 1151.00            | 1162.00             |
| 1226.00     | 1232.00         | 1161.00            | 1172.00             |
| 1237.00     | 1243.00         | 1171.00            | 1182.00             |
| 1248.00     | 1254.00         | 1181.00            | 1192.00             |
| 1259.00     | 1265.00         | 1191.00            | 1202.00             |
| 1270.00     | 1276.00         | 1201.00            | 1212.00             |
| 1281.00     | 1287.00         | 1211.00            | 1222.00             |
| 1292.00     | 1298.00         | 1221.00            | 1232.00             |
| 1303.00     | 1309.00         | 1231.00            | 1242.00             |
| 1314.00     | 1320.00         | 1241.00            | 1252.00             |
| 1325.00     | 1331.00         | 1251.00            | 1262.00             |
| 1336.00     | 1342.00         | 1261.00            | 1272.00             |
| 1347.00     | 1353.00         | 1271.00            | 1282.00             |
| 1358.00     | 1364.00         | 1281.00            | 1292.00             |
| 1369.00     | 1375.00         | 1291.00            | 1302.00             |
| 1380.00     | 1386.00         | 1301.00            | 1312.00             |
| 1391.00     | 1397.00         | 1311.00            | 1322.00             |
| 1402.00     | 1408.00         | 1321.00            | 1332.00             |
| 1413.00     | 1419.00         | 1331.00            | 1342.00             |
| 1424.00     | 1430.00         | 1341.00            | 1352.00             |
| 1435.00     | 1441.00         | 1351.00            | 1362.00             |
| 1446.00     | 1452.00         | 1361.00            | 1372.00             |
| 1457.00     | 1463.00         | 1371.00            | 1382.00             |
| 1468.00     | 1474.00         | 1381.00            | 1392.00             |
| 1479.00     | 1485.00         | 1391.00            | 1402.00             |
| 1490.00     | 1496.00         | 1401.00            | 1412.00             |
| 1501.00     | 1507.00         | 1411.00            | 1422.00             |
| 1512.00     | 1518.00         | 1421.00            | 1432.00             |
| 1523.00     | 1529.00         | 1431.00            | 1442.00             |
| 1534.00     | 1540.00         | 1441.00            | 1452.00             |
| 1545.00     | 1551.00         | 1451.00            | 1462.00             |
| 1556.00     | 1562.00         | 1461.00            | 1472.00             |
| 1567.00     | 1573.00         | 1471.00            | 1482.00             |
| 1578.00     | 1584.00         | 1481.00            | 1492.00             |
| 1589.00     | 1595.00         | 1491.00            | 1502.00             |
| 1600.00     | 1606.00         | 1501.00            | 1512.00             |
| 1611.00     | 1617.00         | 1511.00            | 1522.00             |
| 1622.00     | 1628.00         | 1521.00            | 1532.00             |
| 1633.00     | 1639.00         | 1531.00            | 1542.00             |
| 1644.00     | 1650.00         | 1541.00            | 1552.00             |
| 1655.00     | 1661.00         | 1551.00            | 1562.00             |
| 1666.00     | 1672.00         | 1561.00            | 1572.00             |
| 1677.00     | 1683.00         | 1571.00            | 1582.00             |
| 1688.00     | 1694.00         | 1581.00            | 1592.00             |
| 1699.00     | 1705.00         | 1591.00            | 1602.00             |
| 1710.00     | 1716.00         | 1601.00            | 1612.00             |
| 1721.00     | 1727.00         | 1611.00            | 1622.00             |
| 1732.00     | 1738.00         | 1621.00            | 1632.00             |
| 1743.00     | 1749.00         | 1631.00            | 1642.00             |
| 1754.00     | 1760.00         | 1641.00            | 1652.00             |
| 1765.00     | 1771.00         | 1651.00            | 1662.00             |
| 1776.00     | 1782.00         | 1661.00            | 1672.00             |
| 1787.00     | 1793.00         | 1671.00            | 1682.00             |
| 1798.00     | 1804.00         | 1681.00            | 1692.00             |
| 1809.00     | 1815.00         | 1691.00            | 1702.00             |
| 1820.00     | 1826.00         | 1701.00            | 1712.00             |
| 1831.00     | 1837.00         | 1711.00            | 1722.00             |
| 1842.00     | 1848.00         | 1721.00            | 1732.00             |
| 1853.00     | 1859.00         | 1731.00            | 1742.00             |
| 1864.00     | 1870.00         | 1741.00            | 1752.00             |
| 1875.00     | 1881.00         | 1751.00            | 1762.00             |
| 1886.00     | 1892.00         | 1761.00            | 1772.00             |
| 1897.00     | 1903.00         | 1771.00            | 1782.00             |
| 1908.00     | 1914.00         | 1781.00            | 1792.00             |
| 1919.00     | 1925.00         | 1791.00            | 1802.00             |
| 1930.00     | 1936.00         | 1801.00            | 1812.00             |
| 1941.00     | 1947.00         | 1811.00            | 1822.00             |
| 1952.00     | 1958.00         | 1821.00            | 1832.00             |
| 1963.00     | 1969.00         | 1831.00            | 1842.00             |
| 1974.00     | 1980.00         | 1841.00            | 1852.00             |
| 1985.00     | 1991.00         | 1851.00            | 1862.00             |
| 1996.00     | 2002.00         | 1861.00            | 1872.00             |
| 2007.00     | 2013.00         | 1871.00            | 1882.00             |
| 2018.00     | 2024.00         | 1881.00            | 1892.00             |
| 2029.00     | 2035.00         | 1891.00            | 1902.00             |
| 2040.00     | 2046.00         | 1901.00            | 1912.00             |
| 2051.00     | 2057.00         | 1911.00            | 1922.00             |
| 2062.00     | 2068.00         | 1921.00            | 1932.00             |
| 2073.00     | 2079.00         | 1931.00            | 1942.00             |
| 2084.00     | 2090.00         | 1941.00            | 1952.00             |
| 2095.00     | 2101.00         | 1951.00            | 1962.00             |
| 2106.00     | 2112.00         | 1961.00            | 1972.00             |
| 2117.00     | 2123.00         | 1971.00            | 1982.00             |
| 2128.00     | 2134.00         | 1981.00            | 1992.00             |
| 2139.00     | 2145.00         | 1991.00            | 2002.00             |
| 2150.00     | 2156.00         | 2001.00            | 2012.00             |
| 2161.00     | 2167.00         | 2011.00            | 2022.00             |
| 2172.00     | 2178.00         | 2021.00            | 2032.00             |
| 2183.00     | 2189.00         | 2031.00            | 2042.00             |
| 2194.00     | 2200.00         | 2041.00            | 2052.00             |
| 2205.00     | 2211.00         | 2051.00            | 2062.00             |
| 2216.00     | 2222.00         | 2061.00            | 2072.00             |
| 2227.00     | 2233.00         | 2071.00            | 2082.00             |
| 2238.00     | 2244.00         | 2081.00            | 2092.00             |
| 2249.00     | 2255.00         | 2091.00            | 2102.00             |
| 2260.00     | 2266.00         | 2101.00            | 2112.00             |
| 2271.00     | 2277.00         | 2111.00            | 2122.00             |
| 2282.00     | 2288.00         | 2121.00            | 2132.00             |
| 2293.00     | 2299.00         | 2131.00            | 2142.00             |
| 2304.00     | 2310.00         | 2141.00            | 2152.00             |
| 2315.00     | 2321.00         | 2151.00            | 2162.00             |
| 2326.00     | 2332.00         | 2161.00            | 2172.00             |
| 2337.00     | 2343.00         | 2171.00            | 2182.00             |
| 2348.00     | 2354.00         | 2181.00            | 2192.00             |
| 2359.00     | 2365.00         | 2191.00            | 2202.00             |
| 2370.00     | 2376.00         | 2201.00            | 2212.00             |
| 2381.00     | 2387.00         | 2211.00            | 2222.00             |
| 2392.00     | 2398.00         | 2221.00            | 2232.00             |
| 2403.00     | 2409.00         | 2231.00            | 2242.00             |
| 2414.00     | 2420.00         | 2241.00            | 2252.00             |
| 2425.00     | 2431.00         | 2251.00            | 2262.00             |
| 2436.00     | 2442.00         | 2261.00            | 2272.00             |
| 2447.00     | 2453.00         | 2271.00            | 2282.00             |
| 2458.00     | 2464.00         | 2281.00            | 2292.00             |
| 2469.00     | 2475.00         | 2291.00            | 2302.0              |