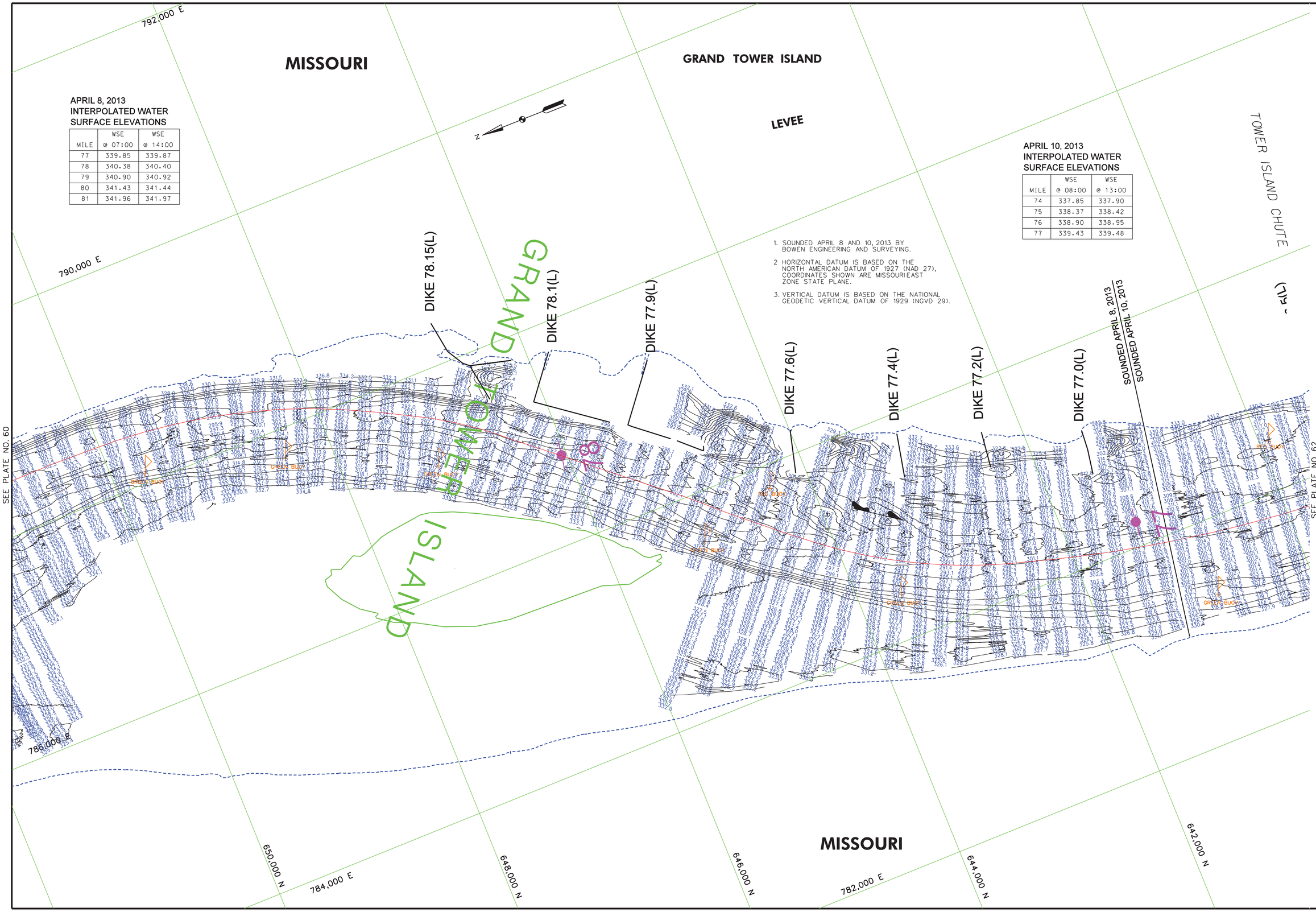


APRIL 8, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 07:00	WSE @ 14:00
77	339.85	339.87
78	340.38	340.40
79	340.90	340.92
80	341.43	341.44
81	341.96	341.97

APRIL 10, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 13:00
74	337.85	337.90
75	338.37	338.42
76	338.90	338.95
77	339.43	339.48

1. SOUNDED APRIL 8 AND 10, 2013 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).

GAGE RECORD

	CAPE GIRARDEAU, MO	MOCCASIN SPRINGS, MO	GRAND TOWER, IL	RED ROCK LANDING, MO
ZERO N.G.V.D.	304.65	313.89	321.93	328.92
MILE	52.1	66.3	81.9	94.1
L. W. R. P.	309.9	317.8	325.3	330.7
08 APR 2013	X	20.32(7:00) 20.37(14:00)	20.50(7:00) 20.51(14:00)	X
10 APR 2013	X	19.90(8:00) 19.95(13:00)	20.08(8:00) 20.13(13:00)	X

ELEVATIONS ARE REFERENCED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

US Army Corps of Engineers
St. Louis District

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER
RIVER MILES 76.8 – 78.6

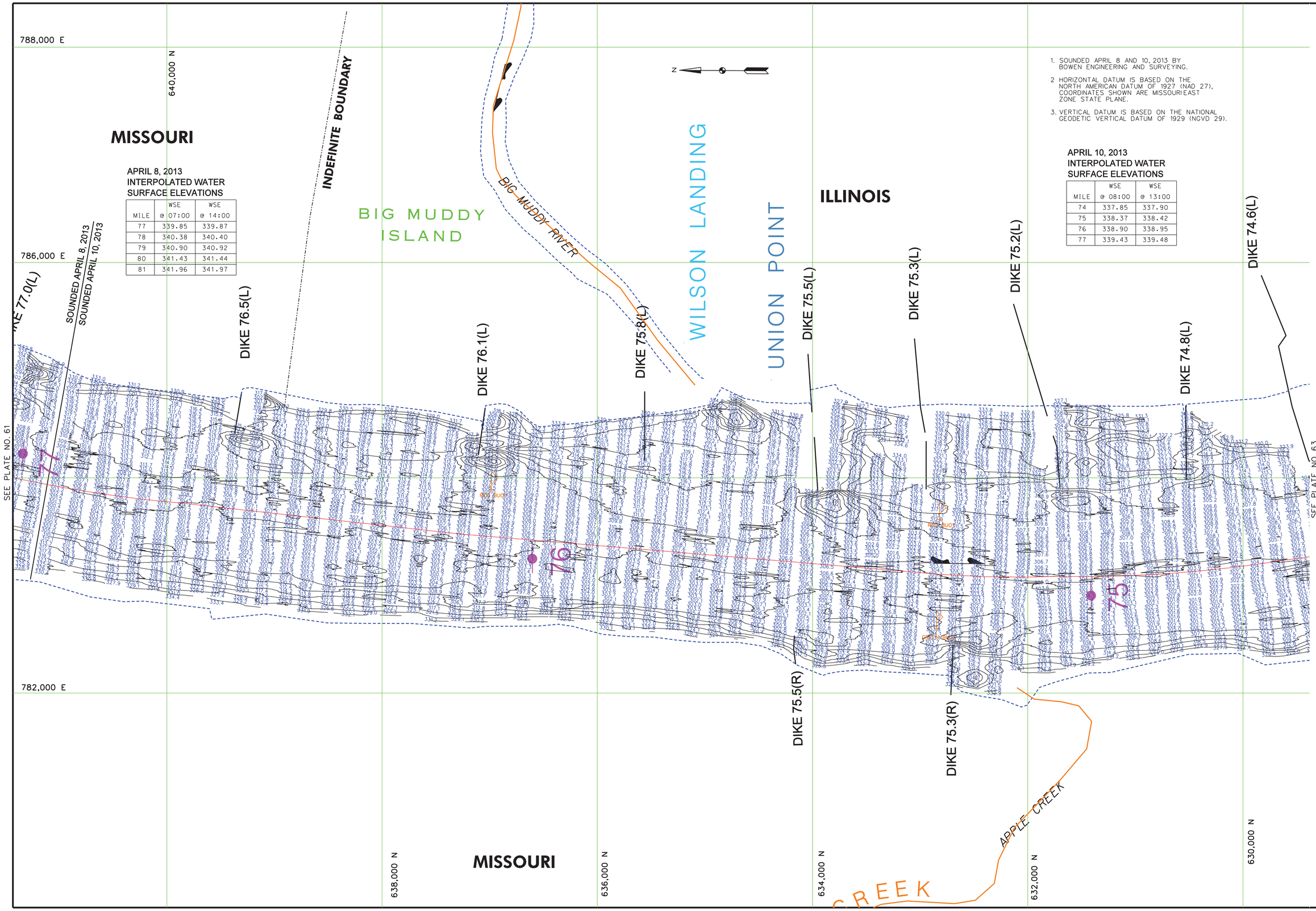
Surveyed by: BOWEN ENGINEERING
Drawn by: X
Chk'd by: X
SUBMITTED: X
Survey Date: April 8 and 10, 2013
Reviewed by: X
APPROVED: X
Plot date: ####DATE/TIME####
File name: ####DESIGNFILEDIRECTORY\DGN####

240 METERS
800 FEET
120 0 120 400 0 400

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN. THIS MAP IS INTENDED TO BE USED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS
RIVER MILES 76.8 – 78.6

PLATE NUMBER
61



APRIL 8, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 07:00	WSE @ 14:00
77	339.85	339.87
78	340.38	340.40
79	340.90	340.92
80	341.43	341.44
81	341.96	341.97

1. SOUNDED APRIL 8 AND 10, 2013 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).

APRIL 10, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 13:00
74	337.85	337.90
75	338.37	338.42
76	338.90	338.95
77	339.43	339.48

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	CAPE GIRARDEAU, MO	MOCCASIN SPRINGS, MO	GRAND TOWER, IL	RED ROCK LANDING, MO
ZERO N.G.V.D.	304.65	313.89	321.93	328.92
MILE	52.1	66.3	81.9	94.1
L. W. R. P.	309.9	317.8	325.3	330.7
08 APR 2013	X	20.32(7:00) 20.37(14:00)	20.50(7:00) 20.51(14:00)	X
10 APR 2013	X	19.90(8:00) 19.95(13:00)	20.08(8:00) 20.13(13:00)	X

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

Surveyed by: BOWEN ENGINEERING
Drawn by: X
Chkd by: X
Reviewed by: X
SUBMITTED: X
APPROVED: X
Survey Date: April 8 and 10, 2013
Plot date: ##########DATE/TIME##########
File name: ##########DESIGNFILE\DESIGN\CATION##########

240 METERS 120 0 120 240
800 FEET 400 0 400 800

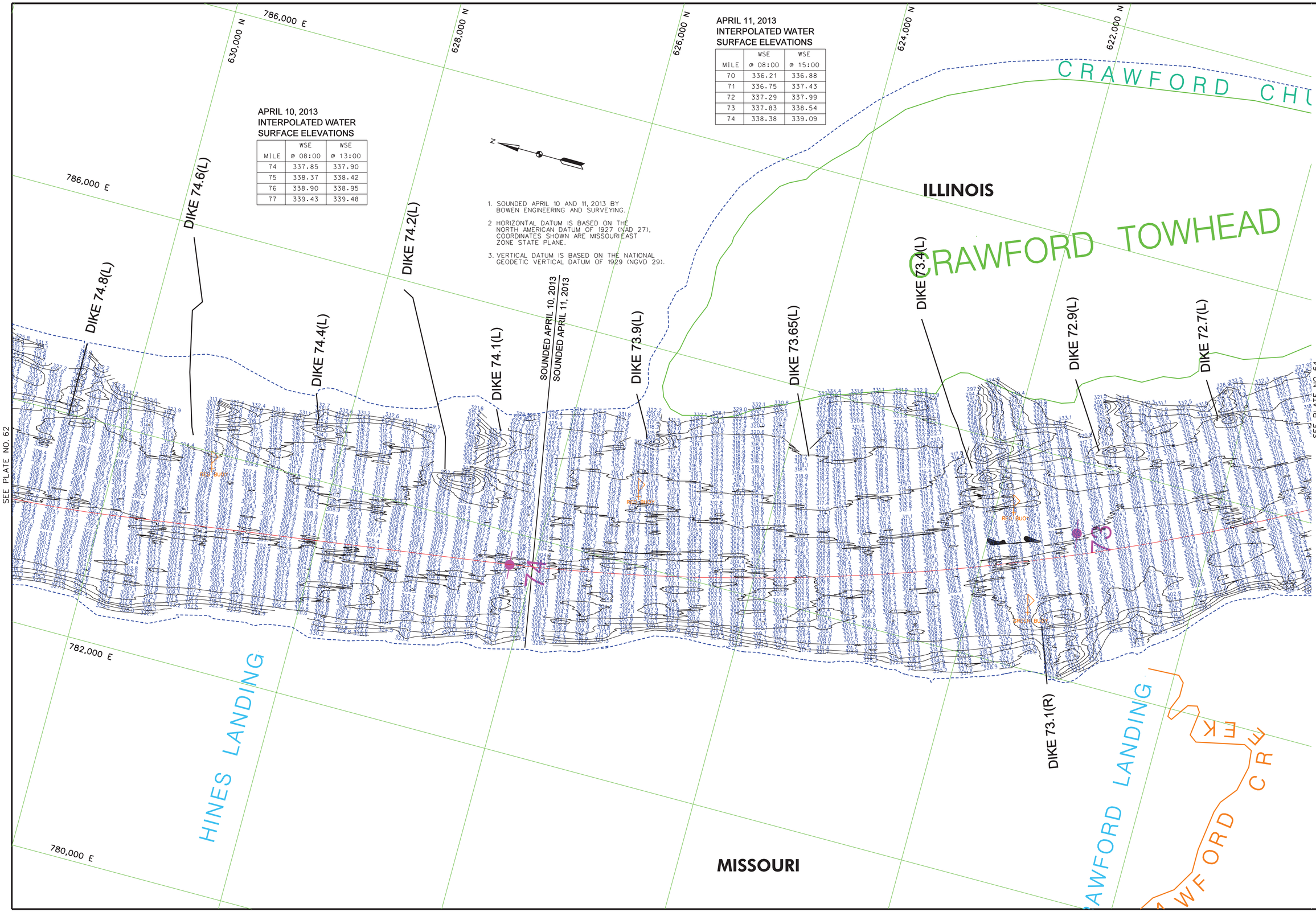
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN AND MAY NOT BE CORRECT AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS

RIVER MILES 74.7 – 76.8

PLATE NUMBER

62



APRIL 10, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 13:00
74	337.85	337.90
75	338.37	338.42
76	338.90	338.95
77	339.43	339.48

APRIL 11, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
70	336.21	336.88
71	336.75	337.43
72	337.29	337.99
73	337.83	338.54
74	338.38	339.09

1. SOUNDED APRIL 10 AND 11, 2013 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

GAGE RECORD

	CAPE GIRARDEAU, MO	MOCCASIN SPRINGS, MO	GRAND TOWER, IL	RED ROCK LANDING, MO
ZERO N.G.V.D.	304.65	313.89	321.93	328.92
MILE	52.1	66.3	81.9	94.1
L. W. R. P.	309.9	317.8	325.3	330.7
10 APR 2013	x	19.90(8-00) 19.95(13-00)	20.08(8-00) 20.03(15-00)	x
11 APR 2013	x	20.31(8-00) 20.94(15-00)	20.73(8-00) 21.54(15-00)	x

ELEVATIONS ARE REFERENCED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE. G.,■.■.P.: 154,000 C.F.S.

Surveyed by: BOWEN ENGINEERING
Survey Date: April 10 and 11, 2013
Drawn by: X
Ckd by: X
Reviewed by: X
SUBMITTED: X
APPROVED: X
Plot date: ■■■■DATE-TIME■■■■
File name: ■■■■DESIGN■FILE■■■■

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

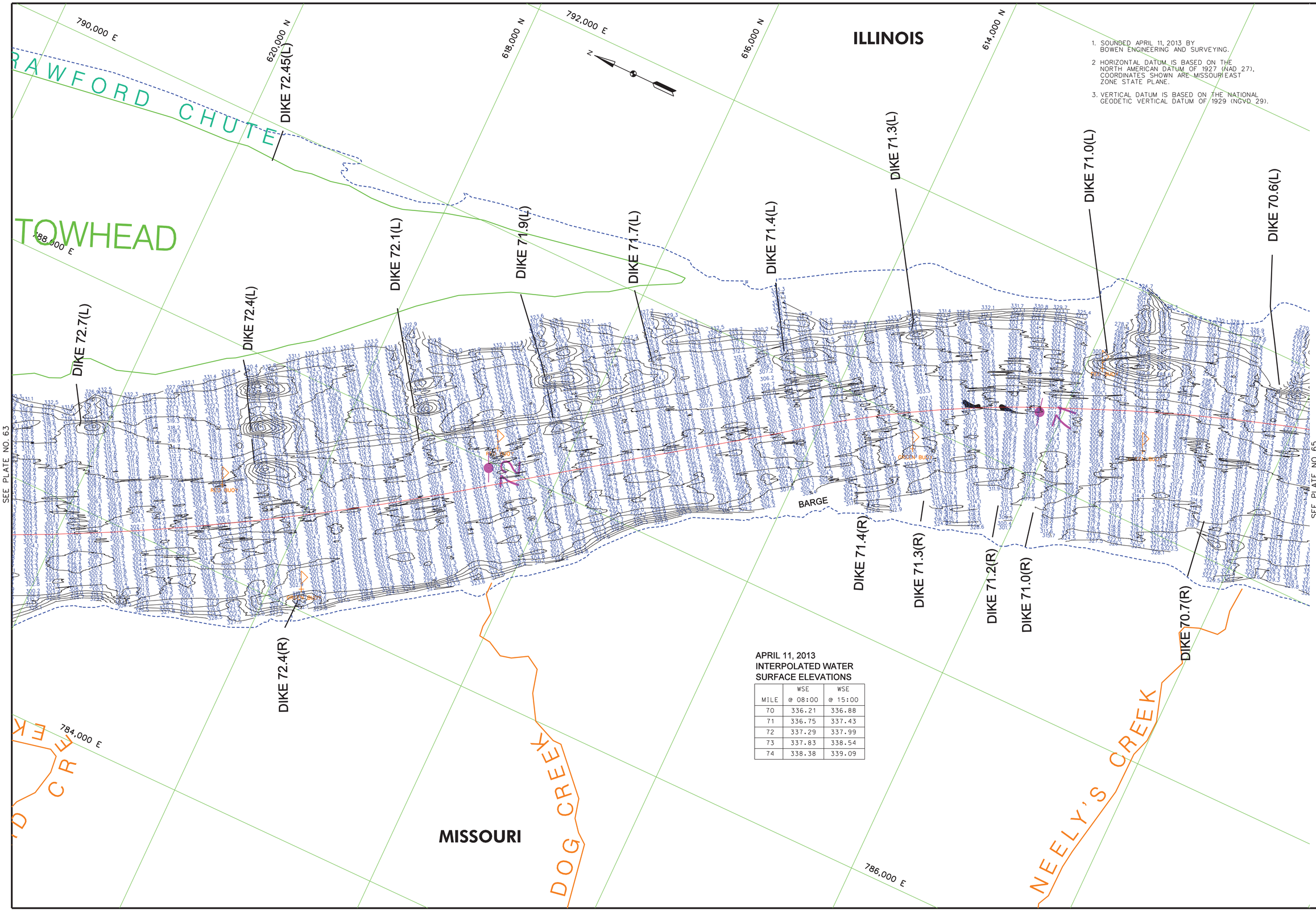
120 400 0 0 120 400 249 METERS 800 FEET

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND SHOULD BE INTERPRETED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

HYDROGRAPHIC SURVEYS

RIVER MILES 72.7 – 74.7

PLATE NUMBER
63



1. SOUNDED APRIL 11, 2013 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).

APRIL 11, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
70	336.21	336.88
71	336.75	337.43
72	337.29	337.99
73	337.83	338.54
74	338.38	339.09

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	CAPE GIRARDEAU, MO	MOCCASIN SPRINGS, MO	GRAND TOWER, IL	RED ROCK LANDING, MO
ZERO N.G.V.D.	304.65	313.89	321.93	328.92
MILE	52.1	66.3	81.9	94.1
L. W. R. P.	309.9	317.8	325.3	330.7
11 APR 2013	X	20.318(00) 20.94(15-00)	20.738(00) 21.54(15-00)	X

ELEVATIONS ARE REFERENCED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE. (L.W.R.P.) 54,000 C.F.S.)

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

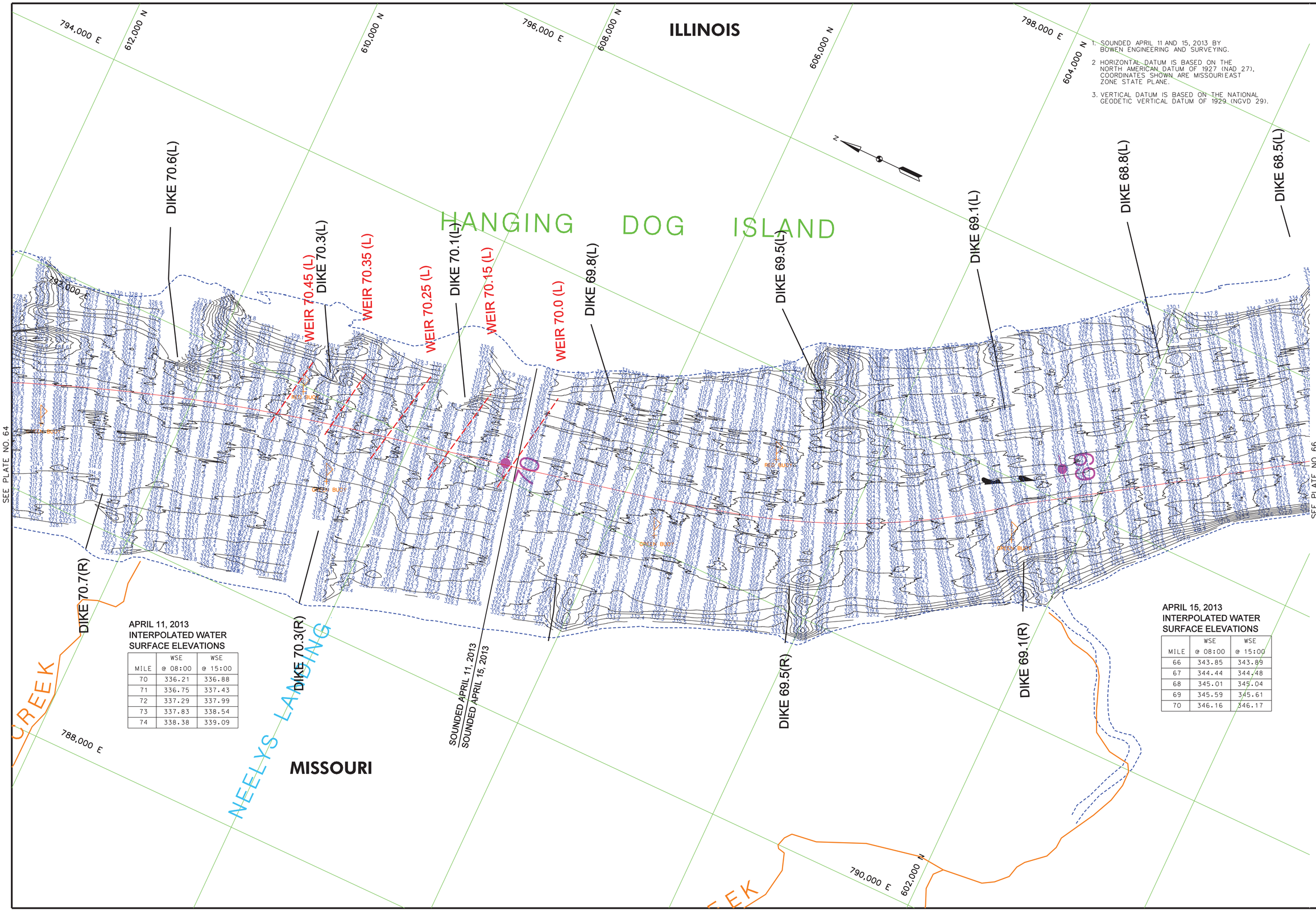
Surveyed by: BOWEN ENGINEERING
Survey Date: April 11, 2013
Drawn by: X
Ckd by: X
Reviewed by: X
SUBMITTED: X
APPROVED: X
Plot date: ##########
File name: ##########

120 0 120 240 METERS
400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE TIME INDICATED AND MAY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS
RIVER MILES 70.7 – 72.7

PLATE NUMBER
64



1. SOUNDED APRIL 11 AND 15, 2013 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).

APRIL 11, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
70	336.21	336.88
71	336.75	337.43
72	337.29	337.99
73	337.83	338.54
74	338.38	339.09

APRIL 15, 2013
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
66	343.85	343.89
67	344.44	344.48
68	345.01	345.04
69	345.59	345.61
70	346.16	346.17

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	CAPE GIRARDEAU, MO	MOCCASIN SPRINGS, MO	GRAND TOWER, IL	RED ROCK LANDING, MO
ZERO N.G.V.D.	304.65	313.89	321.93	328.92
MILE	52.1	66.3	81.9	94.1
L. W. R. P.	309.9	317.8	325.3	330.7
11 APR 2013	x	20.31(8:00) 20.94(15:00)	20.73(8:00) 21.54(15:00)	x
15 APR 2013	30.56(8:00) 30.58(15:00)	30.15(8:00) 30.19(15:00)	31.04(8:00) 30.97(15:00)	x

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE. (L.W.R.P.) 154,000 C.F.S.)

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

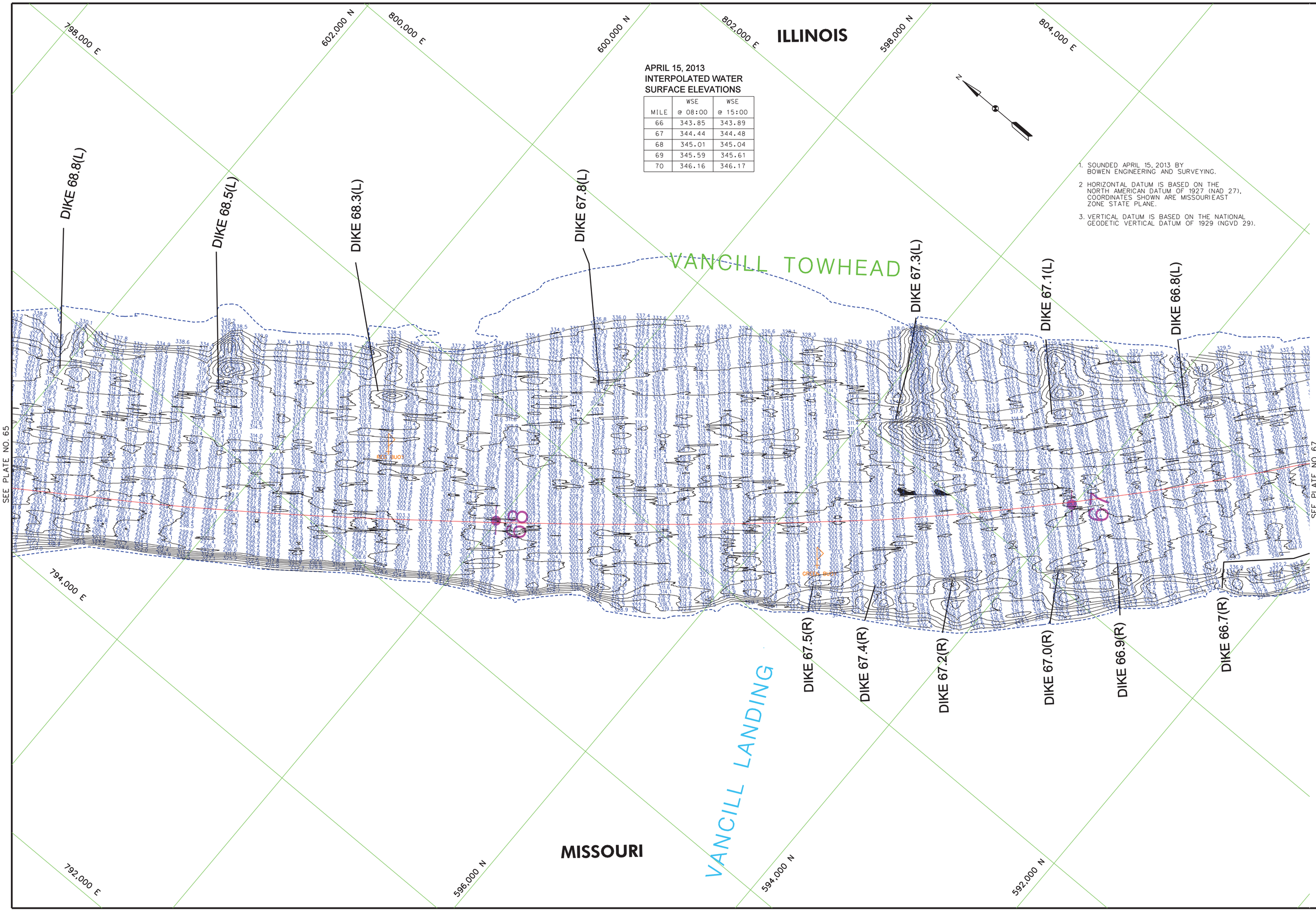
Surveyed by: BOWEN ENGINEERING
Survey Date: April 11 and 15, 2013
Drawn by: X
Ckd by: X
Reviewed by: X
SUBMITTED: X
APPROVED: X
Plot date: ##########
File name: ##########

240 METERS 120 0 120 400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY THE ST. LOUIS DISTRICT, CORPS OF ENGINEERS AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS
RIVER MILES 68.7 – 70.7

PLATE NUMBER
65



APRIL 15, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
66	343.85	343.89
67	344.44	344.48
68	345.01	345.04
69	345.59	345.61
70	346.16	346.17

1. SOUNDED APRIL 15, 2013 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

GAGE RECORD

	CAPE GIRARDEAU, MO	MOCCASIN SPRINGS, MO	GRAND TOWER, IL	RED ROCK LANDING, MO
ZERO N.G.V.D.	304.65	313.89	321.93	328.92
MILE	52.1	66.3	81.9	94.1
L.W.R.P.	309.9	317.8	325.3	330.7
15 APR 2013	30.56(8:00) 30.58(15:00)	30.15(8:00) 30.19(15:00)	31.04(8:00) 30.97(15:00)	X

ELEVATIONS ARE REFERENCED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE. G:\#RIP\154.000 C.F.S.\

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

Surveyed by: BOWEN ENGINEERING
Survey Date: April 15, 2013
Drawn by: X
Chd by: X
Reviewed by: X
SUBMITTED: X
APPROVED: X
Plot date: ####DATE-TIME####
File name: ####DESIGNFILEDESCRIPTION####

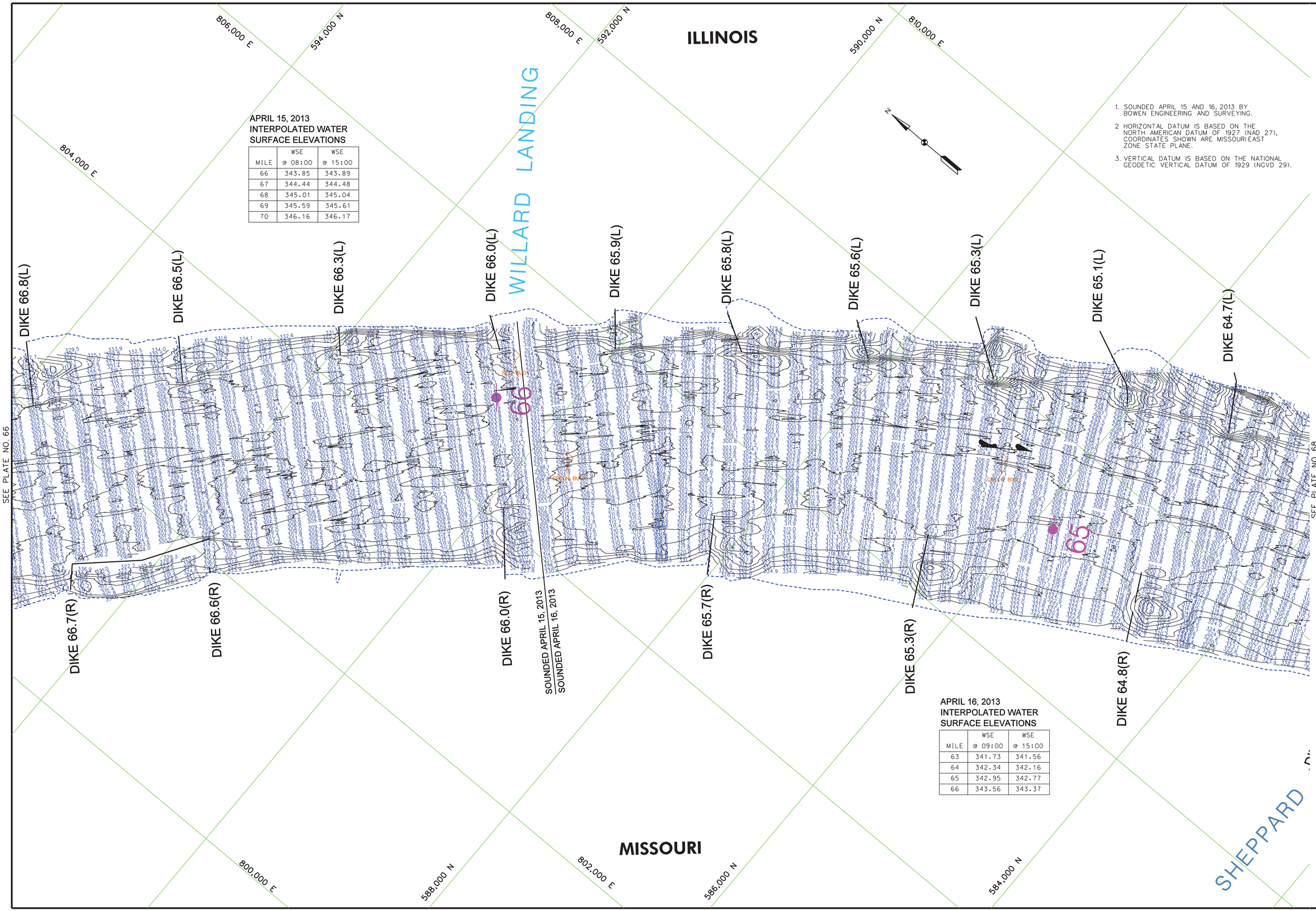
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

120 0 120 240 METERS
400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE TIME INDICATED AND MAY NOT BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS
RIVER MILES 66.7 – 68.7

PLATE NUMBER
66



APRIL 15, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
66	343.85	343.89
67	344.44	344.48
68	345.01	345.04
69	345.59	345.61
70	346.16	346.17

APRIL 16, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 09:00	WSE @ 15:00
63	341.73	341.56
64	342.34	342.16
65	342.95	342.77
66	343.56	343.37

1. SOUNDED APRIL 15 AND 16, 2013 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

GAGE RECORD

	CAPE GIRARDEAU, MO	MOCCASIN SPRINGS, MO	GRAND TOWER, IL	RED ROCK LANDING, MO
ZERO N.G.V.D.	304.65	313.89	321.93	328.92
MILE	52.1	66.3	81.9	94.1
L.W.R.P.	309.9	317.8	325.3	330.7
15 APR 2013	30.56(8:00) 30.59(15:00)	30.15(8:00) 30.19(15:00)	31.04(8:00) 30.97(15:00)	X
16 APR 2013	30.44(9:00) 30.34(15:00)	29.85(9:00) 29.66(15:00)	X	X

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE. (L.W.R.P.) 54,000 C.F.S.)

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

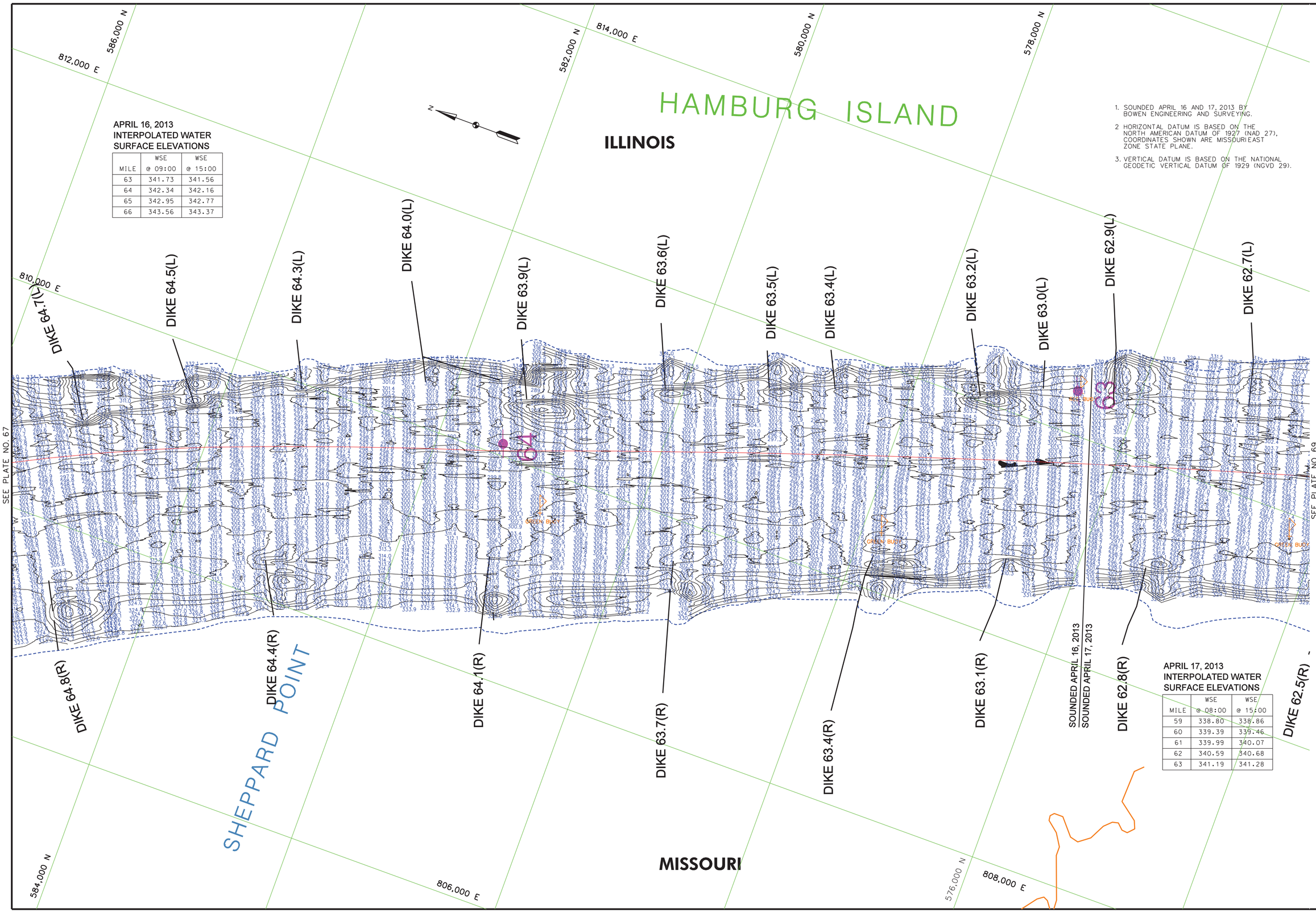
Surveyed by: BOWEN ENGINEERING
Survey Date: April 15 and 16, 2013
Drawn by: X
Ckd by: X
Reviewed by: X
SUBMITTED: X
APPROVED: X
Plot date: ####DATE-TIME####
File name: ####DESIGNFILEBRTCFICATION####

249 METERS 120 0 120 400
800 FEET 400 0 400

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES SHOWN. THE DATA SHOWN HAS BEEN PLOTTED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

HYDROGRAPHIC SURVEYS
RIVER MILES 64.7 – 66.7

PLATE NUMBER
67



APRIL 16, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 09:00	WSE @ 15:00
63	341.73	341.56
64	342.34	342.16
65	342.95	342.77
66	343.56	343.37

APRIL 17, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
59	338.80	338.86
60	339.39	339.46
61	339.99	340.07
62	340.59	340.68
63	341.19	341.28

1. SOUNDED APRIL 16 AND 17, 2013 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

GAGE RECORD

	CAPE GIRARDEAU, MO	MOCCASIN SPRINGS, MO	GRAND TOWER, IL	RED ROCK LANDING, MO
ZERO N.G.V.D.	304.65	313.89	321.93	328.92
MILE	52.1	66.3	81.9	94.1
L.W.R.P.	309.9	317.8	325.3	330.7
16 APR 2013	30.44(9:00)	30.34(15:00)	29.85(9:00)	29.66(15:00)
17 APR 2013	30.02(8:00)	30.03(15:00)	29.27(8:00)	29.39(15:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

Surveyed by: BOWEN ENGINEERING
Survey Date: April 16 and 17, 2013
Drawn by: X
Ckd by: X
Reviewed by: X
SUBMITTED: X
APPROVED: X
Plot date: ##########
File name: ##########

0 120 240 METERS
0 400 800 FEET

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE INDICATED DATES AND IS ONLY AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS

RIVER MILES 62.7 – 64.7

PLATE NUMBER
68

APRIL 17, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
59	338.80	338.86
60	339.39	339.46
61	339.99	340.07
62	340.59	340.68
63	341.19	341.28

1. SOUNDED APRIL 17, 2013 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

GAGE RECORD

	CAPE GIRARDEAU, MO	MOCCASIN SPRINGS, MO	GRAND TOWER, IL	RED ROCK LANDING, MO
ZERO N.G.V.D.	304.65	313.89	321.93	328.92
MILE	52.1	66.3	81.9	94.1
L. W. R. P.	309.9	317.8	325.3	330.7
17 APR 2013	30.02(8:00) 30.03(15:00)	29.27(8:00) 29.39(15:00)	X	X

ELEVATIONS ARE REFERENCED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

Surveyed by: BOWEN ENGINEERING
Survey Date: April 17, 2013
Drawn by: X
Ckd by: X
Reviewed by: X
SUBMITTED: X
APPROVED: X
Plot date: ####DATE-TIME####
File name: ####DESIGNFILEBASE####

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

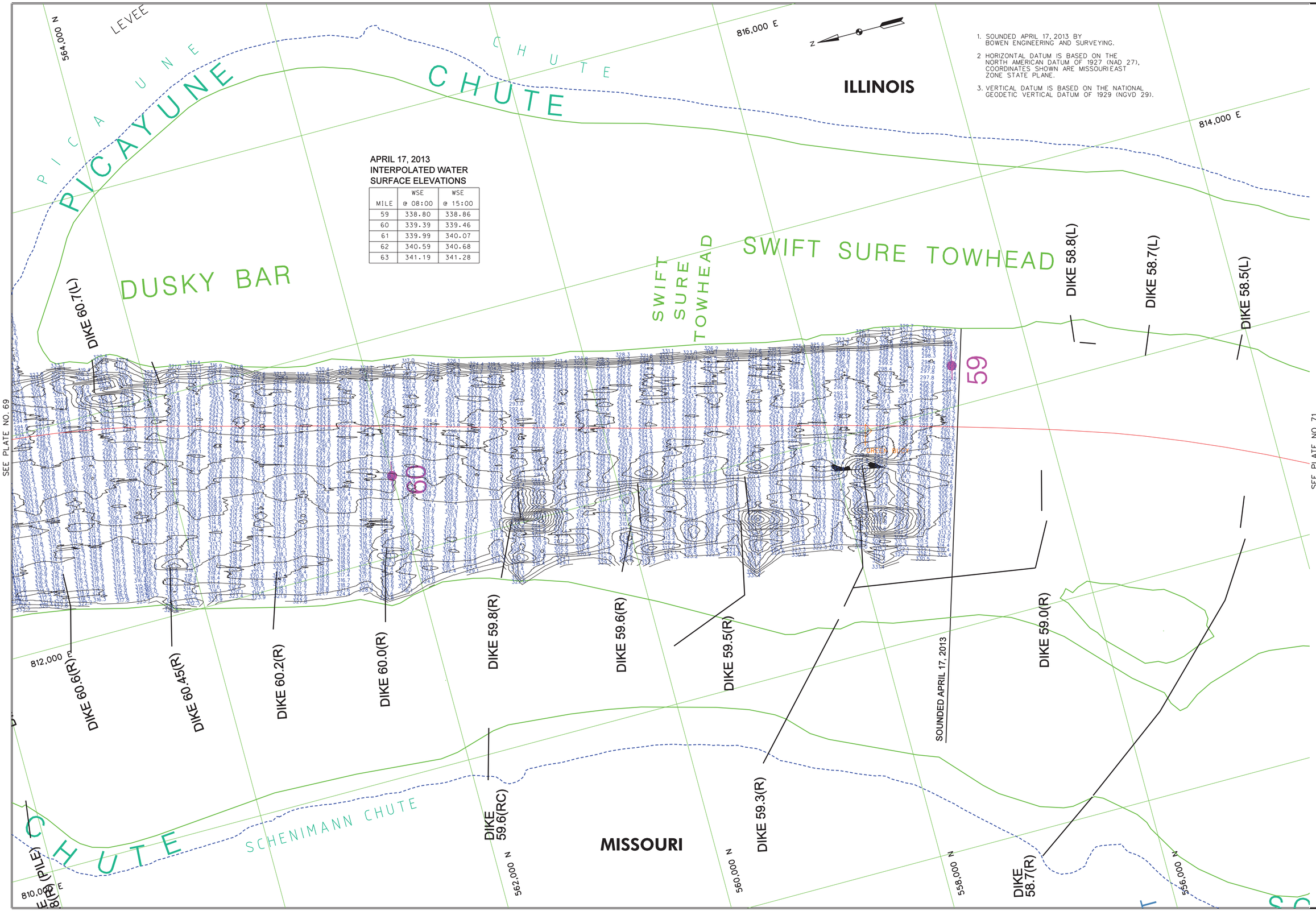
240 METERS 120 0 120 400 0 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS PERFORMED BY THE ST. LOUIS DISTRICT, CORPS OF ENGINEERS AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS

RIVER MILES 60.6 – 62.7

PLATE NUMBER
69



APRIL 17, 2013
INTERPOLATED WATER
SURFACE ELEVATIONS

MILE	WSE @ 08:00	WSE @ 15:00
59	338.80	338.86
60	339.39	339.46
61	339.99	340.07
62	340.59	340.68
63	341.19	341.28

1. SOUNDED APRIL 17, 2013 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

GAGE RECORD

	CAPE GIRARDEAU, MO	MOCCASIN SPRINGS, MO	GRAND TOWER, IL	RED ROCK LANDING, MO
ZERO N.G.V.D.	304.65	313.89	321.93	328.92
MILE	52.1	66.3	81.9	94.1
L.W.R.P.	309.9	317.8	325.3	330.7
17 APR 2013	30.02(8:00) 30.03(15:00)	29.27(8:00) 29.39(15:00)	X	X

ELEVATIONS ARE REFERENCED TO N.G.V.D. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE. G:\#\P:\154.000 C.F.S.\

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

Surveyed by: BOWEN ENGINEERING
Survey Date: April 17, 2013
Drawn by: X
Ckd by: X
Reviewed by: X
SUBMITTED: X
APPROVED: X
Plot date: ##########
File name: ##########

120 0 240 METERS
400 0 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY THE ST. LOUIS DISTRICT, CORPS OF ENGINEERS AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

HYDROGRAPHIC SURVEYS
RIVER MILES 58.5 – 60.6

PLATE NUMBER
70