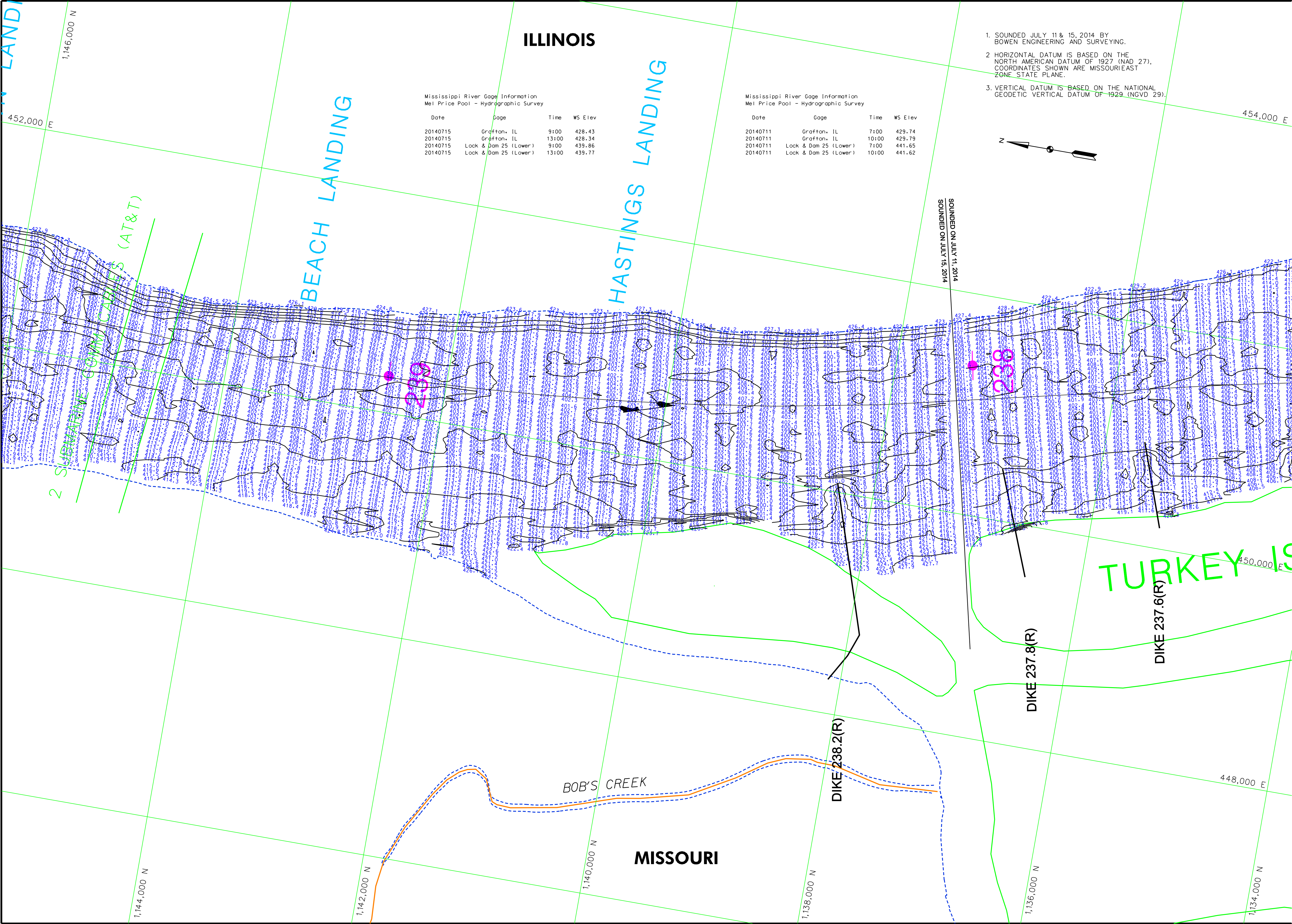




Mississippi River Gage Information
Mel Price Pool - Hydrographic Survey

Date	Gage	Time	WS Elev
20140715	Grafton, IL	9:00	428.43
20140715	Grafton, IL	13:00	428.34
20140715	Lock & Dam 25 (Lower)	9:00	439.86
20140715	Lock & Dam 25 (Lower)	13:00	439.77

Mississippi River Gage Information
Mel Price Pool - Hydrographic Survey

Date	Gage	Time	WS Elev
20140711	Grafton, IL	7:00	429.74
20140711	Grafton, IL	10:00	429.79
20140711	Lock & Dam 25 (Lower)	7:00	441.65
20140711	Lock & Dam 25 (Lower)	10:00	441.62

1. SOUNDED JULY 11 & 15, 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).



GAGE RECORD		ALTON, IL	GRAFTON, IL	DIKON LANDING, IL	L & D 25 (LOWER)
ZERO NGVD	420.00	403.70	420.62	407.60	
MILE	203.0	218.6	228.3	241.2	
L.W.R.P.	414.0	418.0	418.0	418.2	
11 JUL 2014	X	25.957007 26.001000	GAGE UNDERWATER	34.657007 34.651000	
15 JUL 2014	X	24.641907 24.551000	GAGE UNDERWATER	32.861907 32.771000	

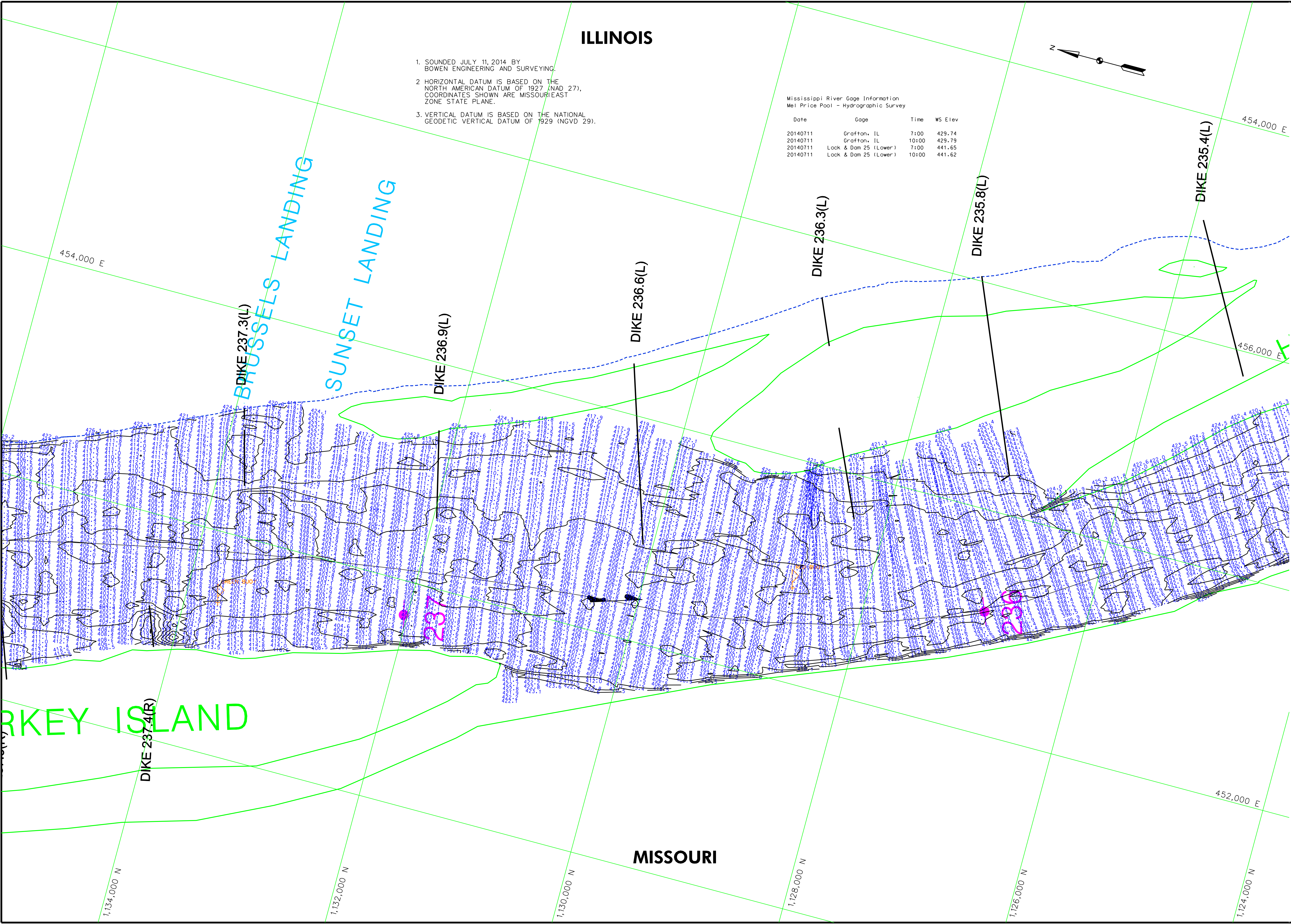
ELEVATIONS ARE REFERRED TO NGVD. - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (LWRP) 154,000 C.T.S.

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Surveyed by: BOWEN ENGINEERING	Survey Date: JUL 11 & 15, 2014	Ckd by: X
	Drawn by: X	Reviewed by: X	
	SUBMITTED: X	APPROVED: X	
UPPER MISSISSIPPI RIVER BASIN	File Name: ##DESIGN##REPRODUCTION##	Plot Date: ##DATE/TIME##	
MISSISSIPPI RIVER			

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

HYDROGRAPHIC SURVEYS
MILE: 237.6 - 239.6



1. SOUNDED JULY 11, 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).

Mississippi River Gage Information
Mel Price Pool - Hydrographic Survey

Date	Gage	Time	WS Elev
20140711	Grafton, IL	7:00	429.74
20140711	Grafton, IL	10:00	429.79
20140711	Lock & Dam 25 (Lower)	7:00	441.65
20140711	Lock & Dam 25 (Lower)	10:00	441.62



GAGE RECORD		ALTON, IL	GRAFTON, IL	DIXON, ILLINOIS	L & D 25 (LOWER)
ZERO N.G.V.D.	420.00	403.70	420.00	420.00	420.00
MILE	203.0	218.6	228.3	241.2	241.2
L.W.R.P.	414.0	418.0	418.0	418.0	418.0
11 JUL 2014	X	25,957,007.26,000.00	25,957,007.26,000.00	25,957,007.26,000.00	25,957,007.26,000.00

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTIGUOUS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (LWRP) 154,000 C.T.S.

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Surveyed by: BOWEN ENGINEERING	Survey Date: JUL 11, 2014	Ckd by: X
	Drawn by: X	Reviewed by: X	
UPPER MISSISSIPPI RIVER BASIN	SUBMITTED: X		APPROVED: X
	File Name: ##DESIGN/REPRODUCTION##		Plot Date: ##DATE/TIME##

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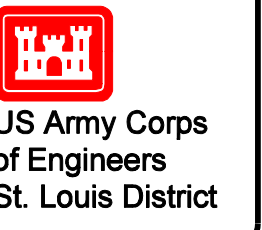
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS A GUIDE TO THE GENERAL CONDITIONS EXISTING AT THAT TIME.

HYDROGRAPHIC SURVEYS

MILE: 235.6 - 237.6

- ILLINOIS

Date	Gage	Time	WS Elev
20140710	Grafton, IL	8:00	429.38
20140710	Grafton, IL	15:00	429.51
20140710	Lock & Dam 25 (Lower)	8:00	441.69
20140710	Lock & Dam 25 (Lower)	15:00	441.70



	400.00	403.79	410.62	407.00
TOE N.G.V.D.	400.00	403.79	410.62	407.00
MILE	203.0	218.6	228.3	241.2
L.W.R.P.	414.0	418.0	419.1	418.5
10 JUL. 2014	X	25.594(0.00)	23.715(0.00)	34.698(0.00)
11 JUL. 2014	X	25.594(0.00)	25.000(0.00)	34.697(0.00)
				34.697(0.00)

ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTOURS ARE BELOW 956.57' LOW WATER REFERENCE PLANE (L.W.R.P.) (54.000 C.F.S.)

UPPER MISSISSIPPI RIVER BASIN CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Drawn by: ☒ X	Reviewed by: ☒ X	Cld by: ☒ X
	SUBMITTED: ☒ X		
MISSISSIPPI RIVER	APPROVED: ☒ X		
	File name: ☒ #MISSISSIPPI#REGISTRATION###	Plot date: ☒ ##DATE=JAN##	

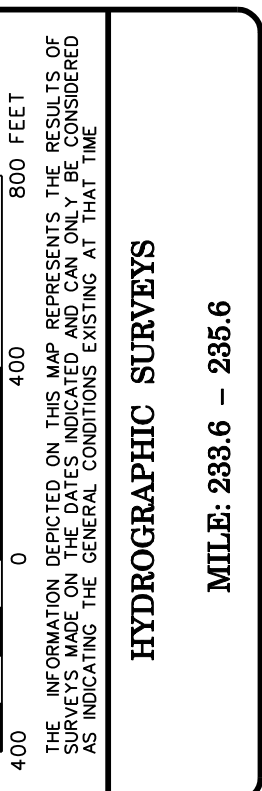
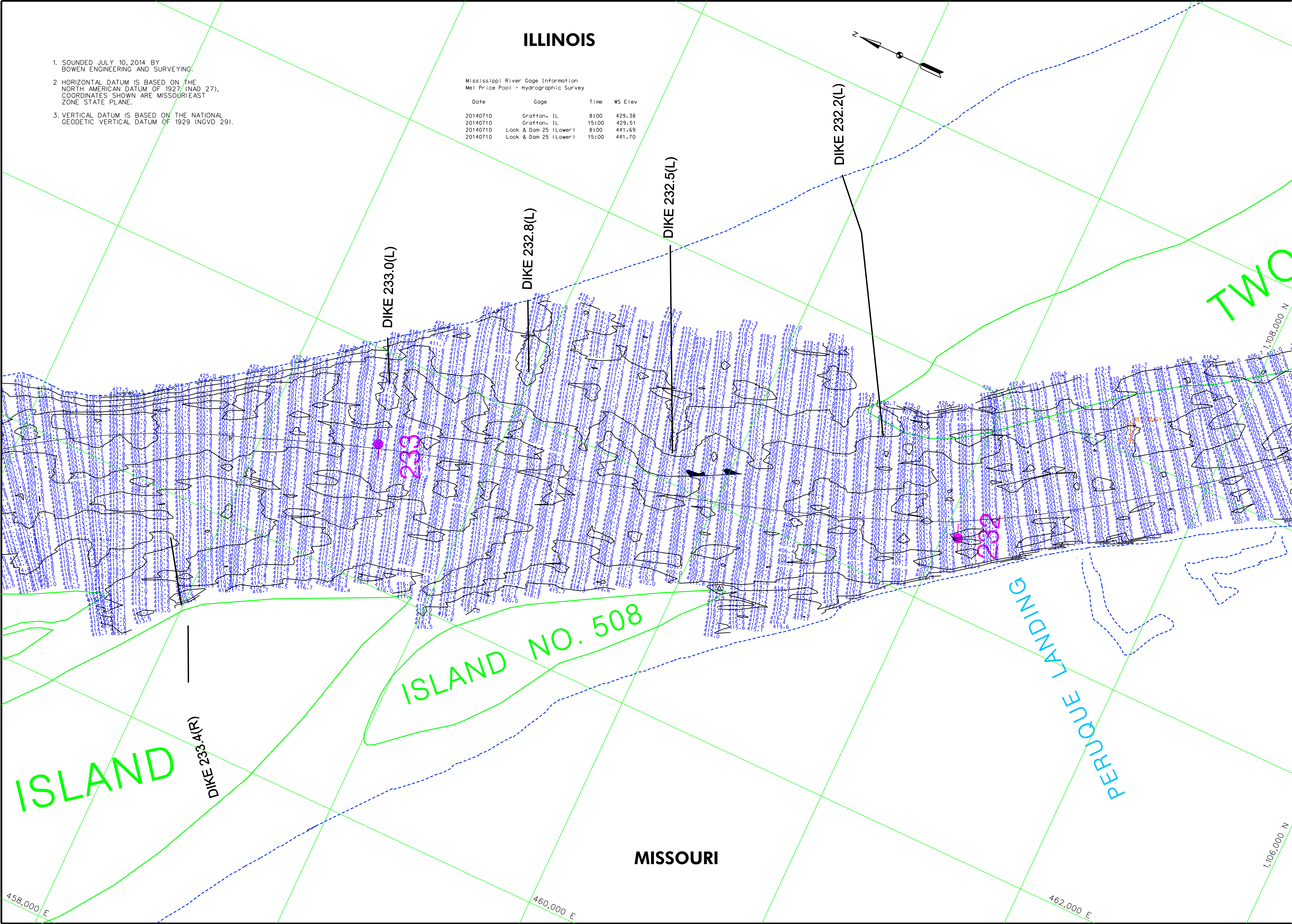


PLATE
NUMBER



1. SOUNDED JULY 10, 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).

Mississippi River Gage Information
Mel Price Pool - Hydrographic Survey

Date	Gage	Time	WS Elev
20140710	Grafton, IL	8:00	429.38
20140710	Grafton, IL	15:00	429.51
20140710	Lock & Dam 25 (Lower)	8:00	441.69
20140710	Lock & Dam 25 (Lower)	15:00	441.70



GAGE RECORD							
		ALTON, IL	GRAFTON, IL		DIXON, ILLINOIS, IL L & D 25 (LOWER)		
ZERO NGVD		400.00	403.79	407.00	416.62		
MILE		203.0	218.6	228.3	241.2		
L.W.R.P.		414.0	418.0	418.0	418.5		
TO JUL 2014		X	25.59(00) 25.72(15-00)	GAGE UNDERWATER	34.69(00) 34.70(15-00)		
ELEVATIONS ARE REFERRED TO NGVD - CONTIGUOUS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (LWRP) 154.000 (1.5)							

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI		Survey Date: JUL 10, 2014	Ckd by: X
UPPER MISSISSIPPI RIVER BASIN		Drawn by: X	Reviewed by: X
MISSISSIPPI RIVER		SUBMITTED: X	APPROVED: X
File Name: ##DESIGN/REPRODUCTION##		Plot Date: ##DATE/TIME##	

120
400
800
1200

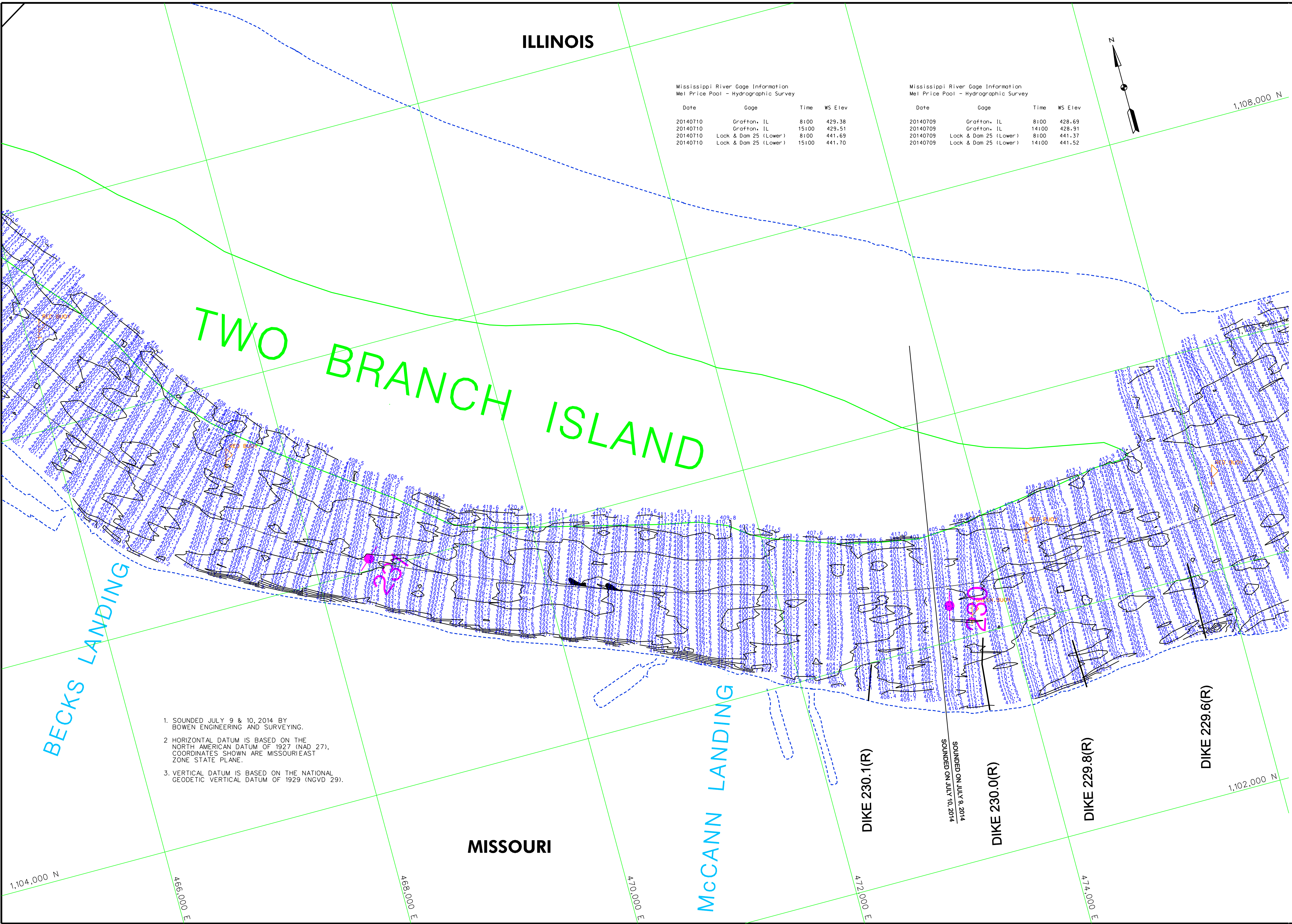
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1200

240 METERS
800 FEET
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS ACCURATE TO THE DATE OF SURVEY. NO GUARANTEE IS MADE THAT THE INFORMATION DEPICTED ON THIS MAP IS CURRENT OR ACCURATE.

HYDROGRAPHIC SURVEYS
MILE: 231.6 - 233.6



ILLINOIS

Mississippi River Gage Information
Mel Price Pool - Hydrographic Survey

Date	Gage	Time	WS Elev
20140710	Grafton, IL	8:00	429.38
20140710	Grafton, IL	15:00	429.51
20140710	Lock & Dam 25 (Lower)	8:00	441.69
20140710	Lock & Dam 25 (Lower)	15:00	441.70

Mississippi River Gage Information
Mel Price Pool - Hydrographic Survey

Date	Gage	Time	WS Elev
20140709	Grafton, IL	8:00	428.69
20140709	Grafton, IL	14:00	428.91
20140709	Lock & Dam 25 (Lower)	8:00	441.37
20140709	Lock & Dam 25 (Lower)	14:00	441.52

TWO BRANCH ISLAND

BECK'S LANDING

McCann LANDING

1. SOUNDED JULY 9 & 10, 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).

MISSOURI

DIKE 230.1(R)

DIKE 230.0(R)

DIKE 229.8(R)

DIKE 229.6(R)

120
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240 METERS
800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED ACCURATE TO THE GENERAL CONTOUR SURVEYED AT THAT TIME.

HYDROGRAPHIC SURVEYS

MILE: 229.5 - 231.6

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

UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

Survey Date: JUL 9 & 10, 2014

Drawn by: X

Reviewed by: X

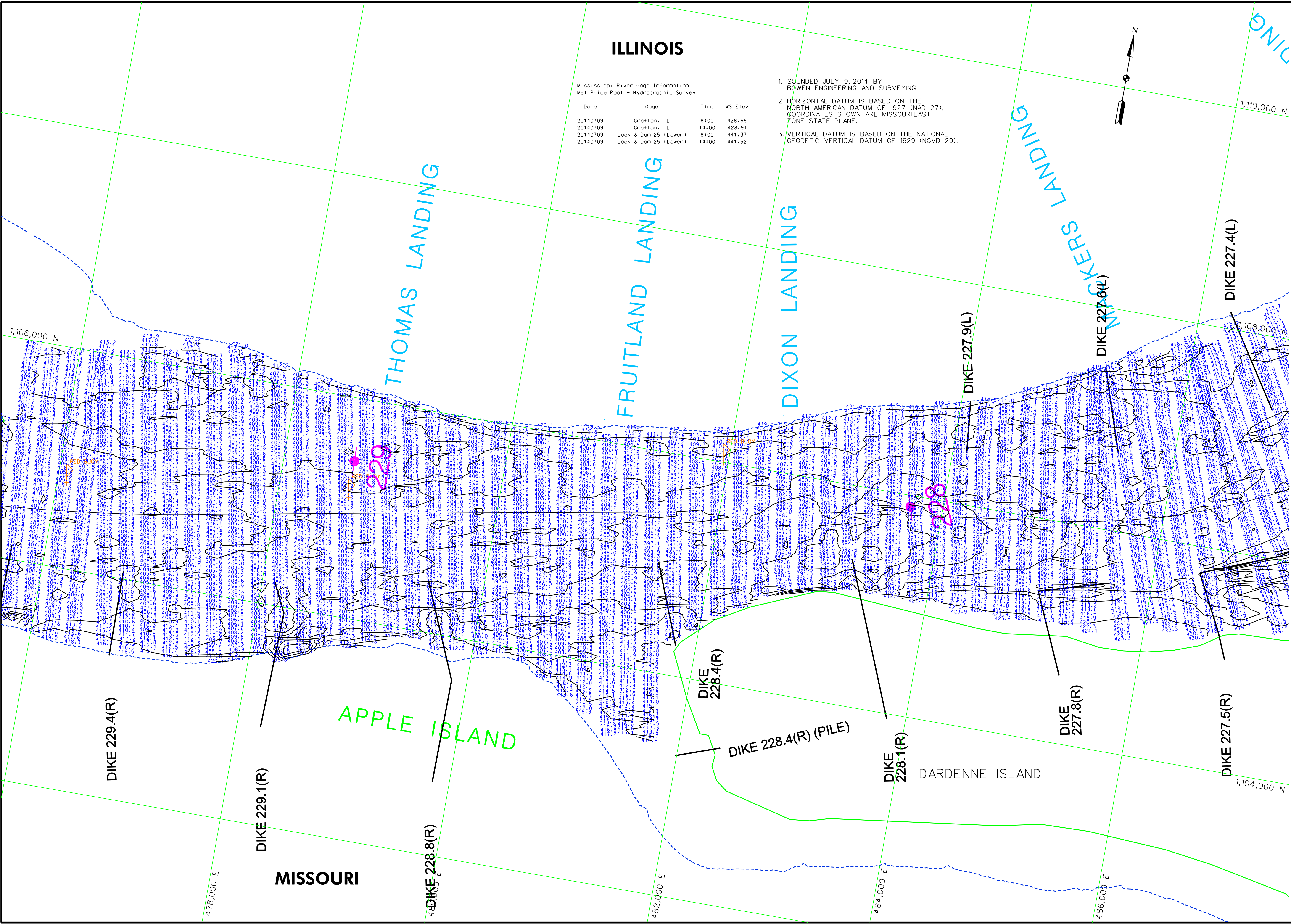
Submitted: X

Approved: X

File Name: #PROJECT/REP/DATE

Plot Date: #PROJECT/REP/DATE

GAGE RECORD				
	ALTON, IL	GRAFTON, IL	DIXON, ILLINOIS	L & D 25 (LOWER)
ZERO NGVD	420.00	403.70	420.00	407.00
MILE	203.0	218.6	228.3	241.2
L.W.R.P.	414.0	418.0	418.0	418.2
9 JUL 2014	X	X	X	X
10 JUL 2014	X	X	X	X
		24.908/007 25.014/100	GAGE UNDERWATER	
		25.505/007 25.721/100	GAGE UNDERWATER	
			34.378/007 34.524/100	
			34.698/007 34.705/100	
ELEVATIONS ARE REFERRED TO NGVD - CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (LWRP) 154.000 (L.S.)				



ILLINOIS

Mississippi River Gage Information
Mel Price Pool - Hydrographic Survey

Date	Gage	Time	WS Elev
20140709	Grafton, IL	8:00	428.69
20140709	Grafton, IL	14:00	428.91
20140709	Lock & Dam 25 (Lower)	8:00	441.37
20140709	Lock & Dam 25 (Lower)	14:00	441.52

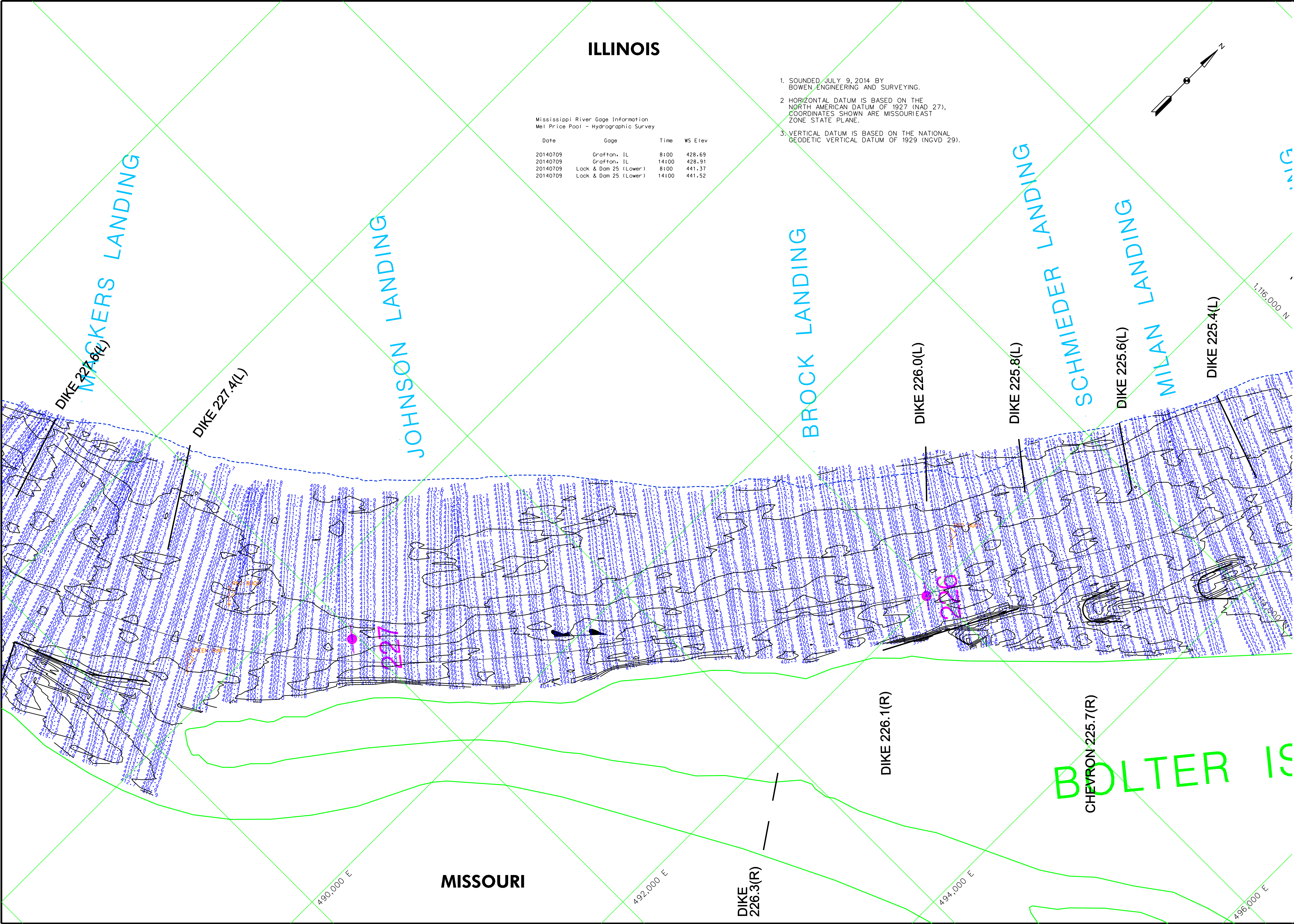
1. SOUNDED JULY 9, 2014 BY BOWEN ENGINEERING AND SURVEYING.
2. HORIZONTAL DATUM IS BASED ON THE NORTH AMERICAN DATUM OF 1927 (NAD 27). COORDINATES SHOWN ARE MISSOURI EAST ZONE STATE PLANE.
3. VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

GAGE RECORD		ALTON, IL		GRAFTON, IL		DIXON LANDING, IL		L & D 25 (LOWER)	
ZERO NGVD	420.00	ZERO NGVD	403.70	ZERO NGVD	420.62	ZERO NGVD	427.80	ZERO NGVD	427.80
MILE	203.0	MILE	218.6	MILE	228.3	MILE	241.2	MILE	241.2
L.W.R.P.	414.0	L.W.R.P.	418.0	L.W.R.P.	428.3	L.W.R.P.	483	L.W.R.P.	483
9 JUL 2014	X	24,908,000 25,014,000	X	24,908,000 25,014,000	X	24,908,000 25,014,000	X	24,908,000 25,014,000	X

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI		Survey Date: JULY 9, 2014	
Drawn by:	Reviewed by:	Drawn by:	Reviewed by:
X	X	X	X
SUBMITTED:		APPROVED:	
X	X	X	X
File Name: #PROJECT#		Plot Date: ##DATE/TIME##	

120 400 800 1200 240 METERS	0 400 800 1200 240 FEET
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS ACCURATE TO THE DATE OF SURVEY AND THE QUALITY OF THE SURVEY.	
HYDROGRAPHIC SURVEYS	
MILE: 227.5 - 229.5	

PLATE NUMBER
36



Mississippi River Gage Information
Mel Price Pool - Hydrographic Survey

Date	Gage	Time	WS Elev
20140709	Grafton, IL	8:00	428.69
20140709	Grafton, IL	14:00	428.91
20140709	Lock & Dam 25 (Lower)	8:00	441.37
20140709	Lock & Dam 25 (Lower)	14:00	441.52

1. SOUNDED JULY 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).



GAGE RECORD		ALTON, IL	GRAFTON, IL	DIXON, ILLINOIS	L & D 25 (LOWER)
ZERO N.G.V.D.		420.00	403.70	420.00	407.00
MILE		203.0	218.6	228.3	241.2
L.W.R.P.		414.0	418.0	418.0	418.0
9 JUL 2014		X	24,908.00/25.014.00	GAGE UNDERWATER	34,378.00/34.5214.00

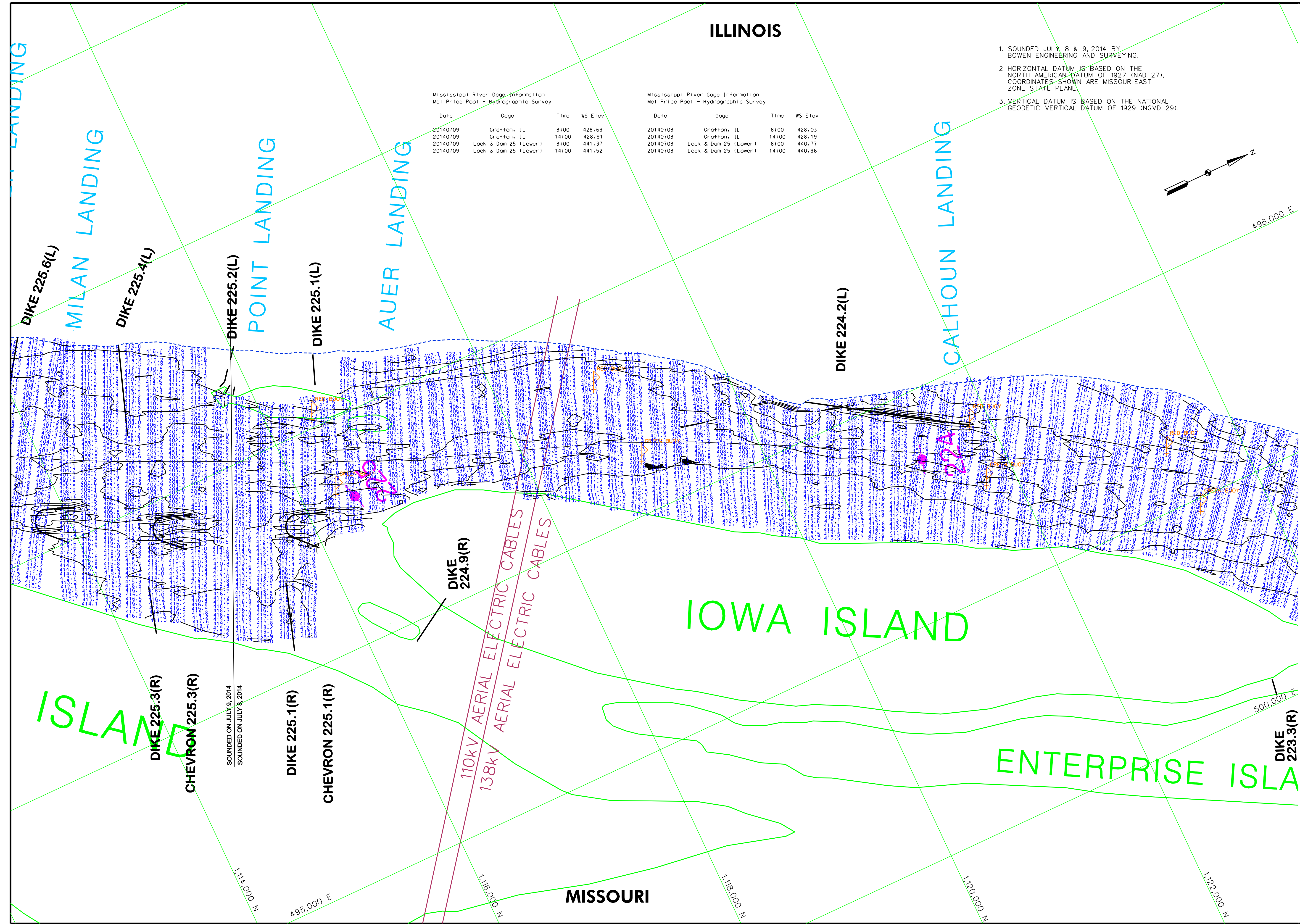
ELEVATIONS ARE REFERRED TO N.G.V.D. - CONTIGUOUS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (LWRP) 154,000 C.T.S.I.

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Survey Date: JULY 9, 2014	Drawn by: X	Reviewed by: X	Ckd by: X
UPPER MISSISSIPPI RIVER BASIN	APPROVED: X	SUBMITTED: X		
MISSISSIPPI RIVER	File Name: ##DESIGN/REPERATION##	Plot Date: ##DATE/TIME##		

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THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS ACCURATE TO THE DATE OF SURVEY. NO GUARANTEE IS MADE THAT THE INFORMATION DEPICTED ON THIS MAP IS ACCURATE TO THE DATE OF SURVEY.

HYDROGRAPHIC SURVEYS
MILE: 225.5 - 227.5



Mississippi River Gage Information
Mel Price Pool - Hydrographic Survey

Date	Gage	Time	WS Elev
20140709	Grafton, IL	8:00	428.69
20140709	Grafton, IL	14:00	428.91
20140709	Lock & Dam 25 (Lower)	8:00	441.37
20140709	Lock & Dam 25 (Lower)	14:00	441.52

Mississippi River Gage Information
Mel Price Pool - Hydrographic Survey

Date	Gage	Time	WS Elev
20140708	Grafton, IL	8:00	428.03
20140708	Grafton, IL	14:00	428.19
20140708	Lock & Dam 25 (Lower)	8:00	440.77
20140708	Lock & Dam 25 (Lower)	14:00	440.96

1. SOUNDED JULY 8 & 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).



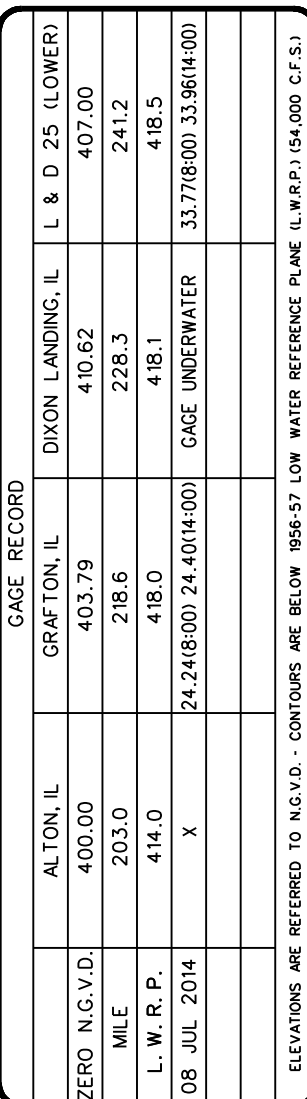
GAGE RECORD

	ALTON, IL	GRAFTON, IL	DIXON, IL	L & D 25 (LOWER)
ZERO NGVD	420.00	403.70	410.62	407.80
NGVD	203.0	218.6	228.3	241.2
L.W.R.	414.0	418.0	418.0	418.0
05 JUL 2014	X	24.24(8/07) 24.40(4/00)	GAGE UNDERWATER	33.77(8/07) 33.86(4/00)
09 JUL 2014	X	24.30(8/07) 25.12(4/00)	GAGE UNDERWATER	34.37(8/07) 34.52(4/00)

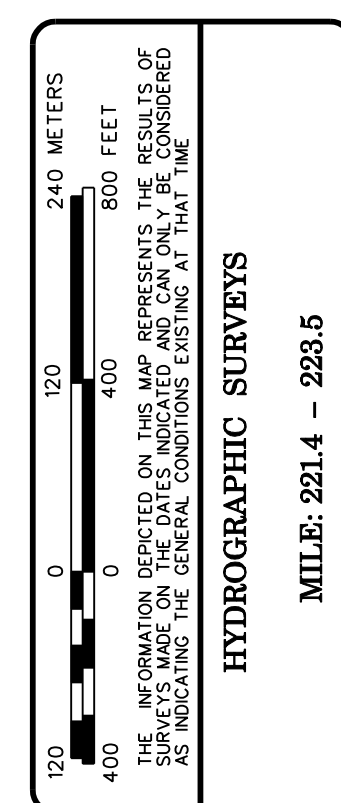
ELEVATIONS ARE REFERRED TO NGVD. COORDINATES ARE BELOW 1985-57 LOW WATER REFERENCE FRAME (LWRP) 154,000 (F.S.)

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Surveyed by: BOWEN ENGINEERING	Survey Date: JUL 7 & 8, 2014	
	Drawn by: X	Reviewed by: X	Checked by: X
UPPER MISSISSIPPI RIVER BASIN	SUBMITTED: X	APPROVED: X	Plot Date: ##/##/##
	File Name: ##DESIGN/##PERMIT/##		

120 400 800 1200 1600 2000 2400 METERS	0 400 800 1200 1600 2000 2400 FEET
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS A GUIDE TO THE GENERAL SITUATION. IT DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION.	
HYDROGRAPHIC SURVEYS	
MILE: 225.5 - 225.5	



U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS ST. LOUIS, MISSOURI	Surveyed by: BOWEN ENGINEERING		Survey Date: JULY 8, 2014	
	Drawn by: X	X	Reviewed by: X	Old by: X
UPPER MISSISSIPPI RIVER BASIN	SUBMITTED: X		APPROVED: X	
MISSISSIPPI RIVER	File name: #MISSISSIPPIRIVERSTATION##		Plot date: ##MM##/##DD##/####	



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