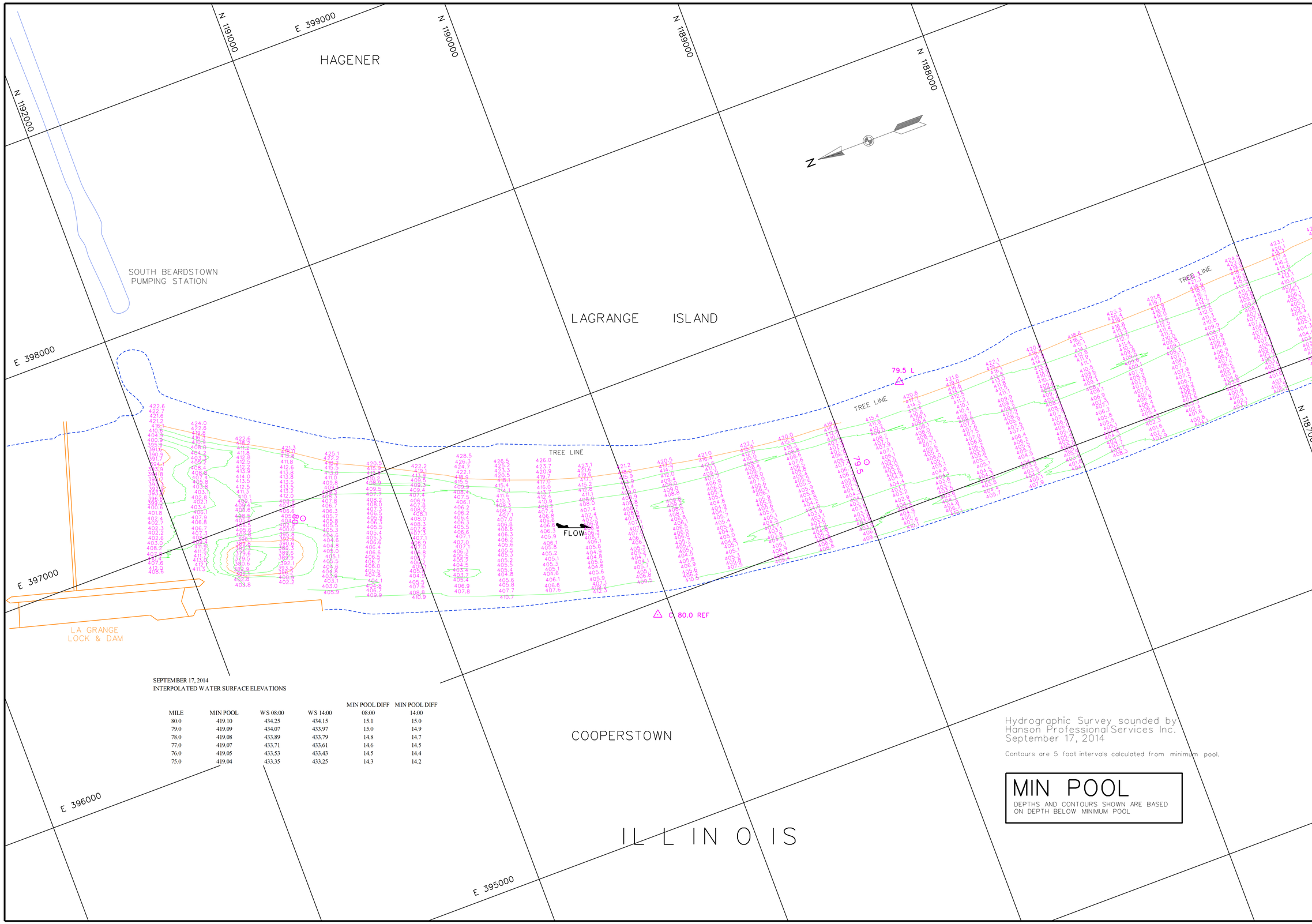


SEPTEMBER 17, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 14:00	MIN POOL DIFF 08:00	MIN POOL DIFF 14:00
80.0	419.10	434.25	434.15	15.1	15.0
79.0	419.09	434.07	433.97	15.0	14.9
78.0	419.08	433.89	433.79	14.8	14.7
77.0	419.07	433.71	433.61	14.6	14.5
76.0	419.05	433.53	433.43	14.5	14.4
75.0	419.04	433.35	433.25	14.3	14.2

Hydrographic Survey sounded by Hanson Professional Services Inc. September 17, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	LAGRANGE LOCK (L)	MEREDOSIA
ZERO N.G.V.D.		413.5	418.0
MILE		80.3	70.8
MIN POOL		419.1	419.0
DATE	17 SEP 2014	434.3 (08:00)	432.6 (08:00)
		434.2 (14:00)	432.5 (14:00)

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.)

Survey Date: Sept. 17, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_00011814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

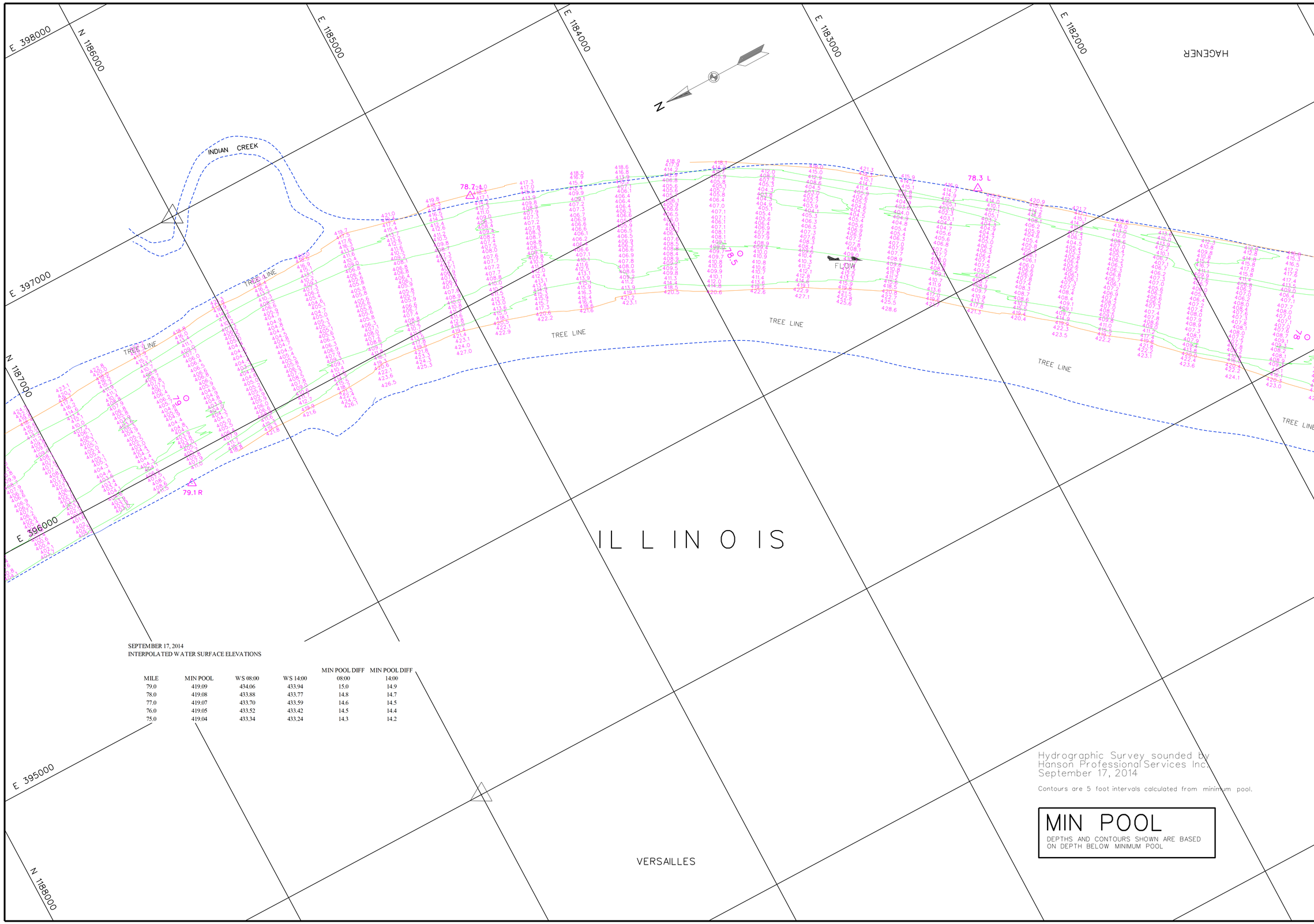
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
1



SEPTEMBER 17, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 14:00	MIN POOL DIFF 08:00	MIN POOL DIFF 14:00
79.0	419.09	434.06	433.94	15.0	14.9
78.0	419.08	433.88	433.77	14.8	14.7
77.0	419.07	433.70	433.59	14.6	14.5
76.0	419.05	433.52	433.42	14.5	14.4
75.0	419.04	433.34	433.24	14.3	14.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 17, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	LAGRANGE LOCK (L)	MEREDOSIA
ZERO N.G.V.D.		413.5	418.0
MILE		80.3	70.8
MIN. POOL		419.1	419.0
DATE	17 SEP 2014	434.3 (08:00) 434.2 (14:00)	432.6 (08:00) 432.5 (14:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (34,000 C.F.S.)

Survey Date: Sept. 17, 2014

Surveyed by: HANSON

Drawn by: JLK

Checked by: JCL

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

Reviewed by:

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

APPROVED:

Chief, Geospatial Branch

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

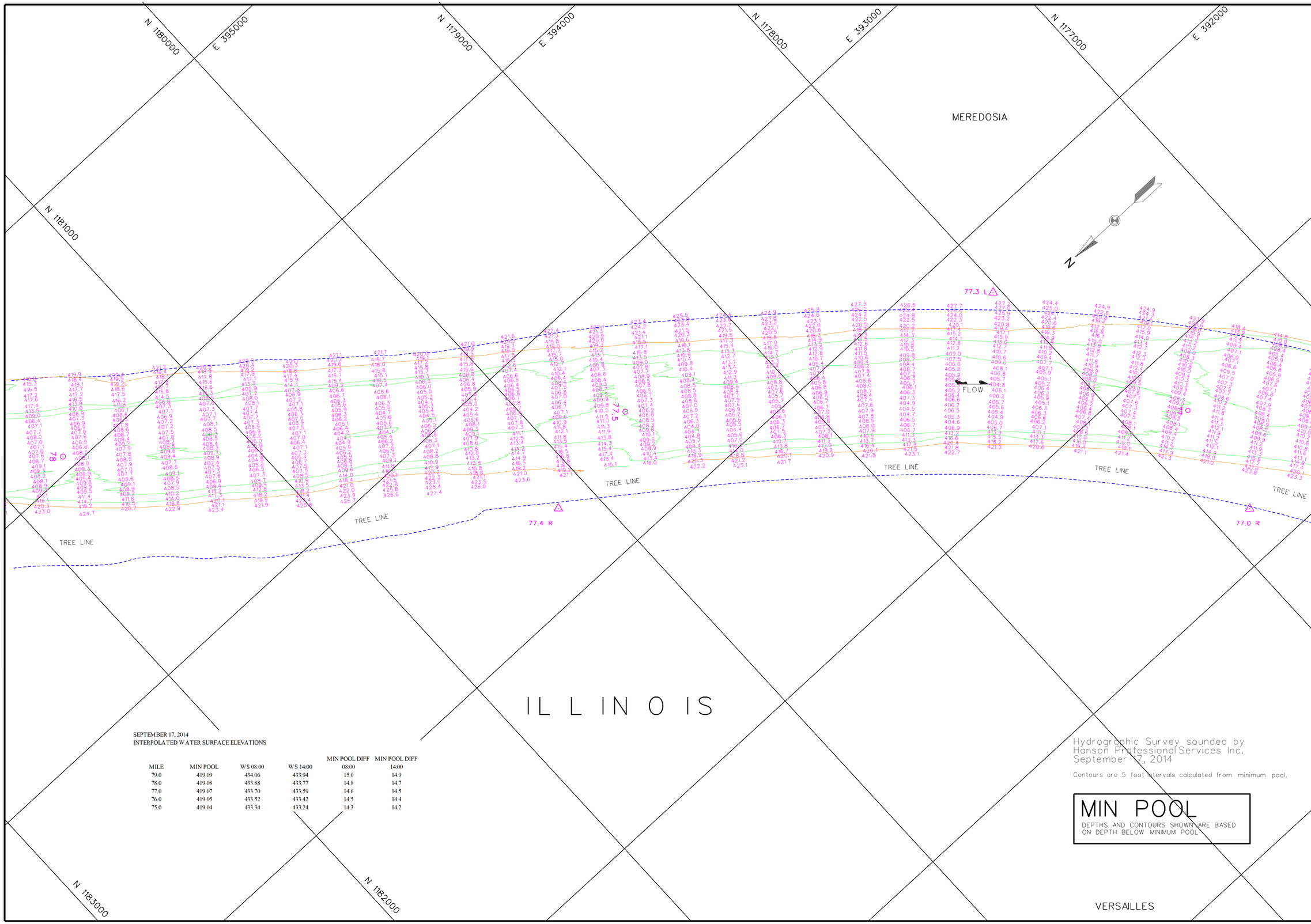
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 0 200 400 FEET

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

PLATE NUMBER

2



SEPTEMBER 17, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 14:00	MIN POOL DIFF 08:00	MIN POOL DIFF 14:00
79.0	419.09	434.06	433.94	15.0	14.9
78.0	419.08	433.88	433.77	14.8	14.7
77.0	419.07	433.70	433.59	14.6	14.5
76.0	419.05	433.52	433.42	14.5	14.4
75.0	419.04	433.34	433.24	14.3	14.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 17, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	LAGRANGE LOCK (L)	MEREDOSIA
ZERO N.G.V.D.		413.5	418.0
MILE		80.3	70.8
MIN POOL		419.1	419.0
DATE	17 SEP 2014	434.3 (08:00)	432.6 (08:00)
		434.2 (14:00)	432.5 (14:00)

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.)

Survey Date: Sept. 17, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

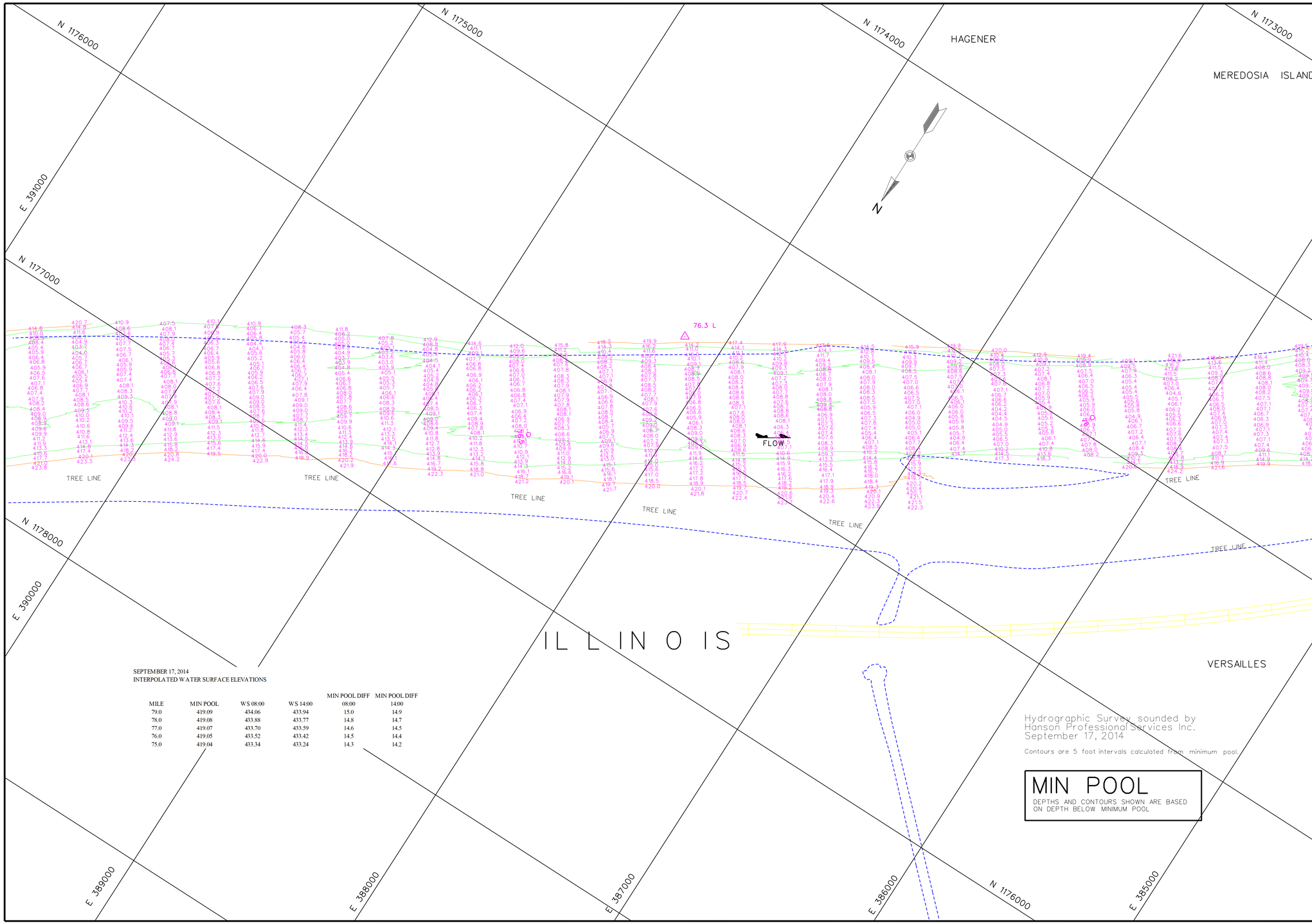
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
3



SEPTEMBER 17, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 14:00	MIN POOL DIFF 08:00	MIN POOL DIFF 14:00
79.0	419.09	434.06	433.94	15.0	14.9
78.0	419.08	433.88	433.77	14.8	14.7
77.0	419.07	433.70	433.59	14.6	14.5
76.0	419.05	433.52	433.42	14.5	14.4
75.0	419.04	433.34	433.24	14.3	14.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 17, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	LAGRANGE LOCK (L)	MEREDOSIA
ZERO N.G.V.D.		413.5	418.0
MILE		80.3	70.8
MIN POOL		419.1	419.0
DATE	17 SEP 2014	434.3 (08:00)	432.6 (08:00)
		434.2 (14:00)	432.5 (14:00)

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.)

Survey Date: Sept. 17, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

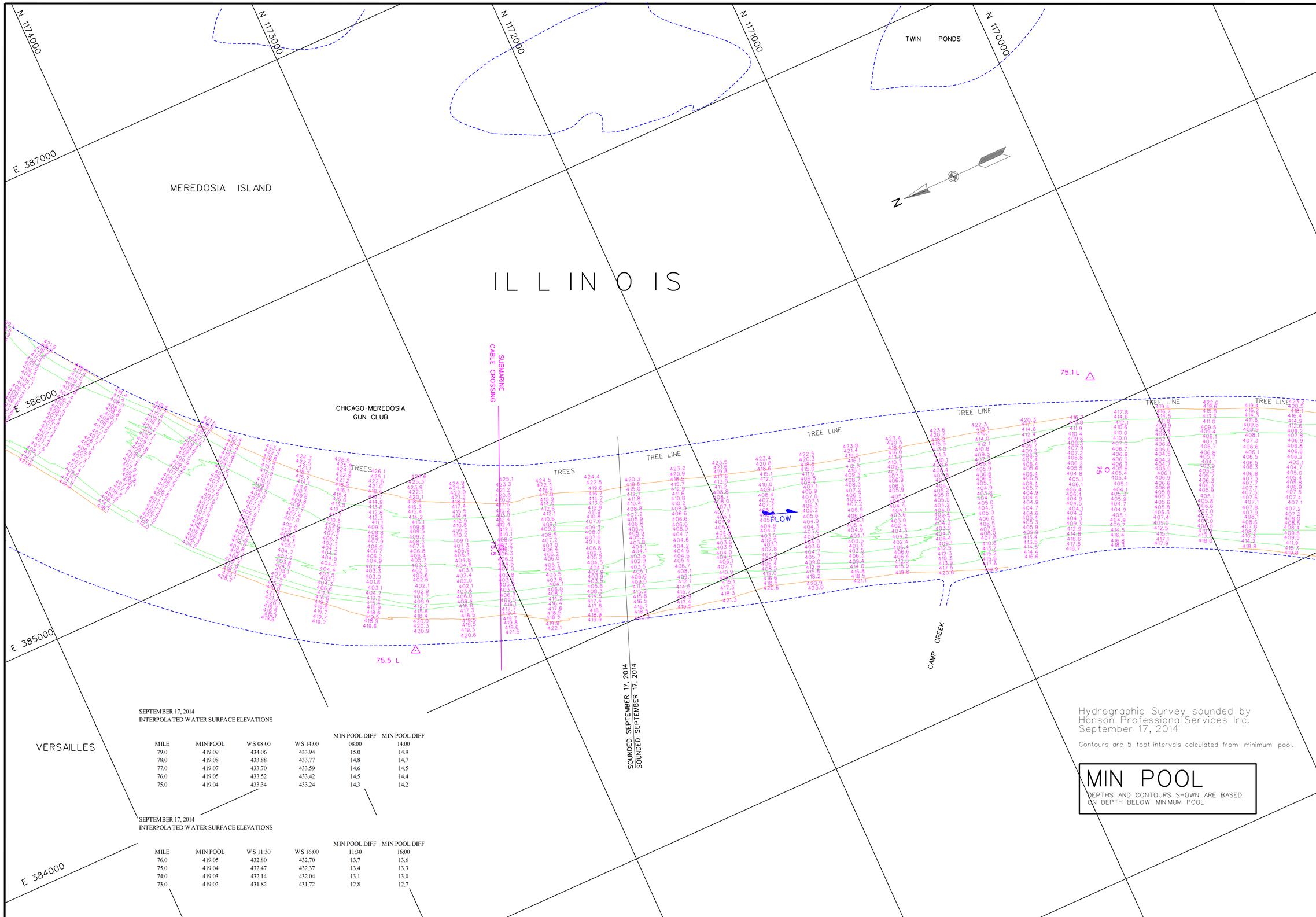
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
4



SEPTEMBER 17, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 14:00	MIN POOL DIFF 08:00	MIN POOL DIFF 14:00
79.0	419.09	434.06	433.94	15.0	14.9
78.0	419.08	433.88	433.77	14.8	14.7
77.0	419.07	433.70	433.59	14.6	14.5
76.0	419.05	433.52	433.42	14.5	14.4
75.0	419.04	433.34	433.24	14.3	14.2

SEPTEMBER 17, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 11:30	WS 16:00	MIN POOL DIFF 11:30	MIN POOL DIFF 16:00
76.0	419.05	432.80	432.70	13.7	13.6
75.0	419.04	432.47	432.37	13.4	13.3
74.0	419.03	432.14	432.04	13.1	13.0
73.0	419.02	431.82	431.72	12.8	12.7

Hydrographic Survey sounded by Hanson Professional Services Inc. September 17, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	LAGRANGE LOCK (L)	MEREDOSIA
ZERO N.G.V.D.		413.5	418.0
MILE		80.3	70.8
MIN POOL		419.1	419.0
DATE			
	17 SEP 2014	434.3 (08:00)	432.6 (08:00)
	17 SEP 2014	434.2 (11:30)	431.1 (11:30)

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.)

Survey Date: Sept. 17, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

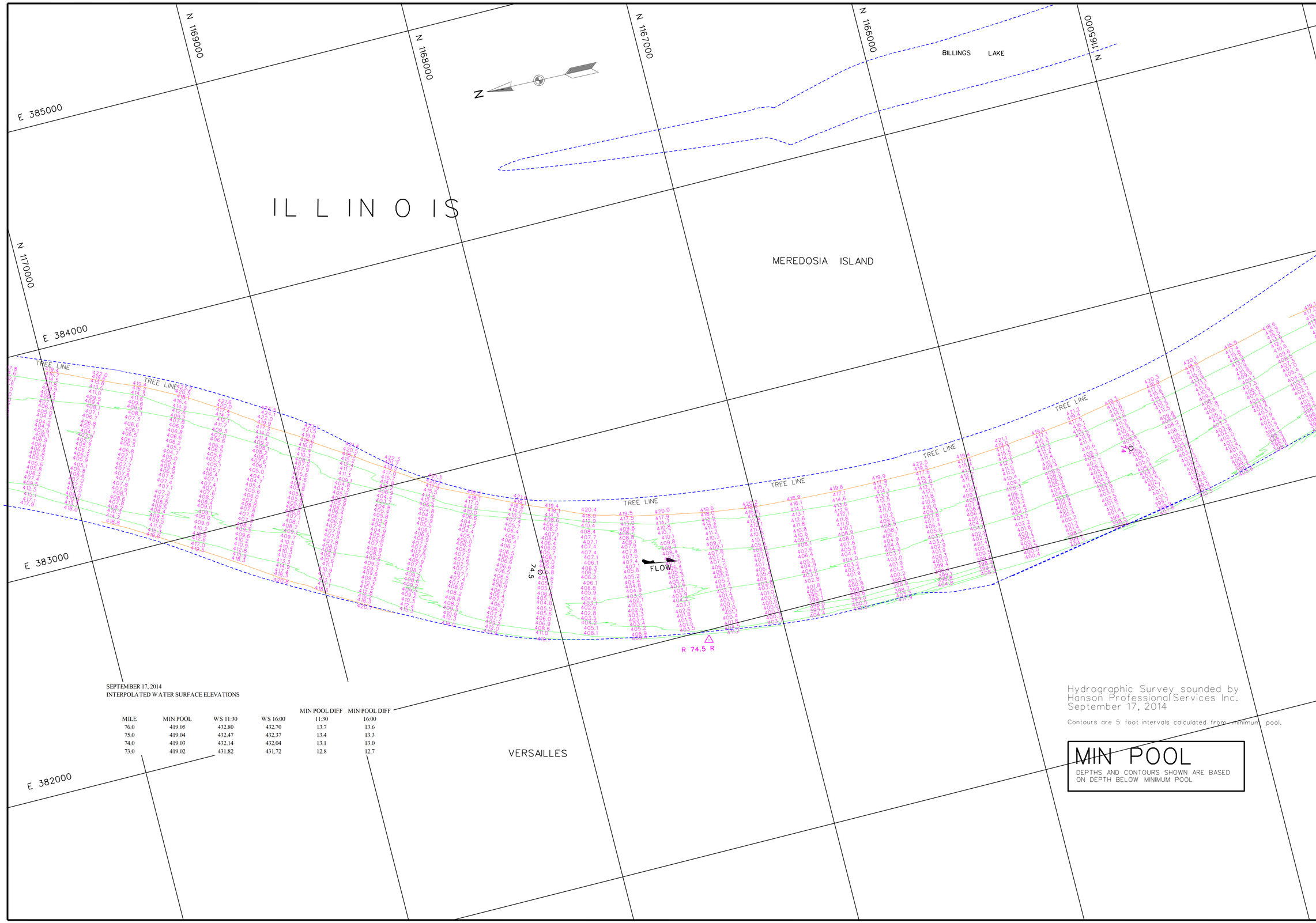
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

5



SEPTEMBER 17, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 11:30	WS 16:00	MIN POOL DIFF 11:30	MIN POOL DIFF 16:00
76.0	419.05	432.80	432.70	13.7	13.6
75.0	419.04	432.47	432.37	13.4	13.3
74.0	419.03	432.14	432.04	13.1	13.0
73.0	419.02	431.82	431.72	12.8	12.7

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 17, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	LAGRANGE LOCK (L)	MEREDOSIA
ZERO N.G.V.D.		413.5	418.0
MILE		80.3	70.8
MIN POOL		419.1	419.0
DATE	17 SEP 2014	434.2 (11:30)	431.1 (11:30)
		434.1 (16:00)	431.0 (16:00)

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.)

Survey Date: Sept. 17, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

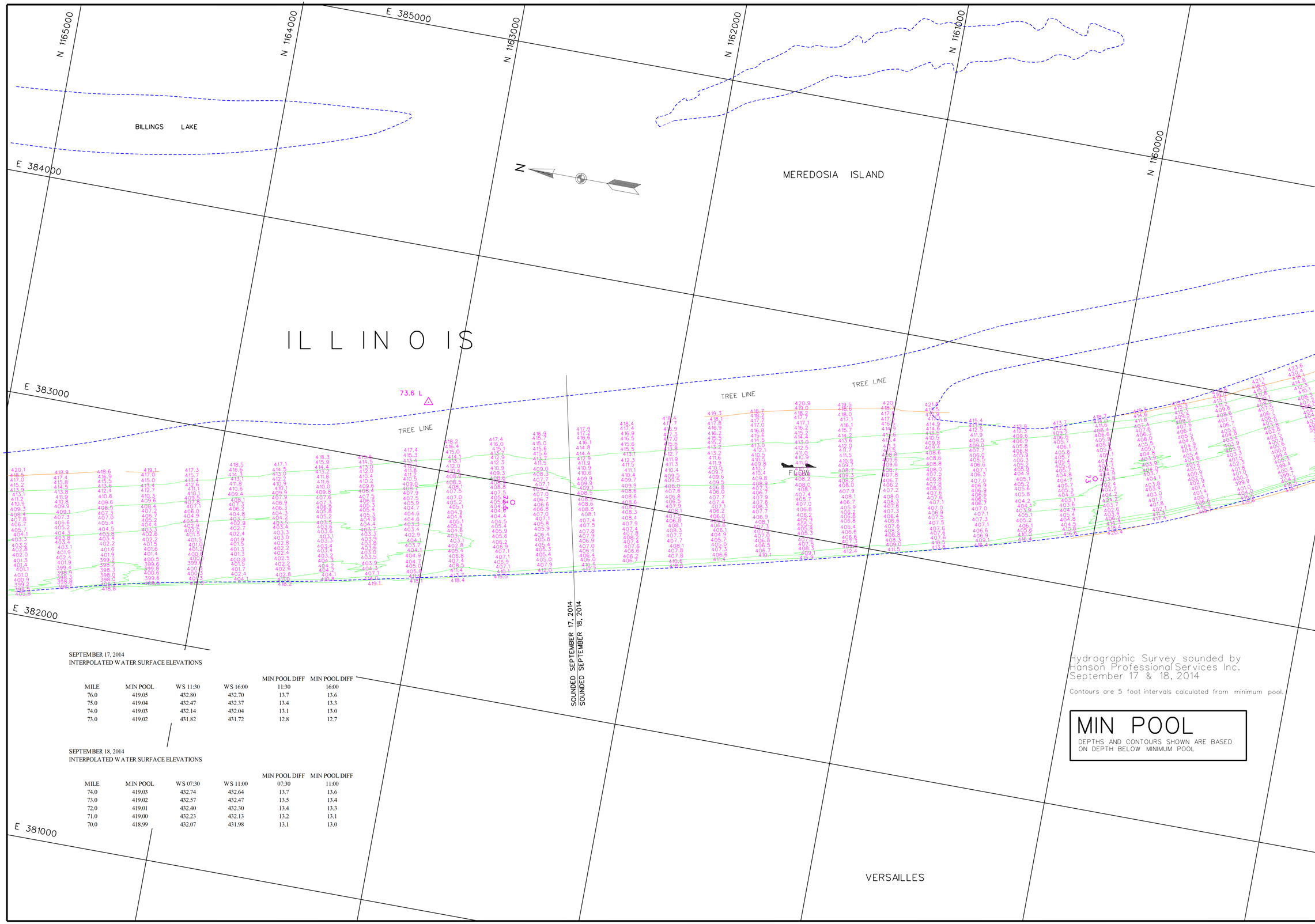
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
6



SEPTEMBER 17, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 11:30	WS 16:00	MIN POOL DIFF 11:30	MIN POOL DIFF 16:00
76.0	419.05	432.80	432.70	13.7	13.6
75.0	419.04	432.47	432.37	13.4	13.3
74.0	419.03	432.14	432.04	13.1	13.0
73.0	419.02	431.82	431.72	12.8	12.7

SEPTEMBER 18, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 11:00	MIN POOL DIFF 07:30	MIN POOL DIFF 11:00
74.0	419.03	432.74	432.64	13.7	13.6
73.0	419.02	432.57	432.47	13.5	13.4
72.0	419.01	432.40	432.30	13.4	13.3
71.0	419.00	432.23	432.13	13.2	13.1
70.0	418.99	432.07	431.98	13.1	13.0

US Army Corps of Engineers
St. Louis District

GAGE RECORD

WATER SURFACE	LAGRANGE LOCK (L)	MEREDOSIA
ZERO N.G.V.D.	413.5	418.0
MILE	80.3	70.8
MIN POOL	419.1	419.0
DATE		
17 SEP 2014	434.2 (11:30)	431.1 (11:30)
18 SEP 2014	433.8 (07:30)	432.2 (07:30)

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.)

Survey Date: Sept. 17&18, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED: Chief, Geospatial Branch

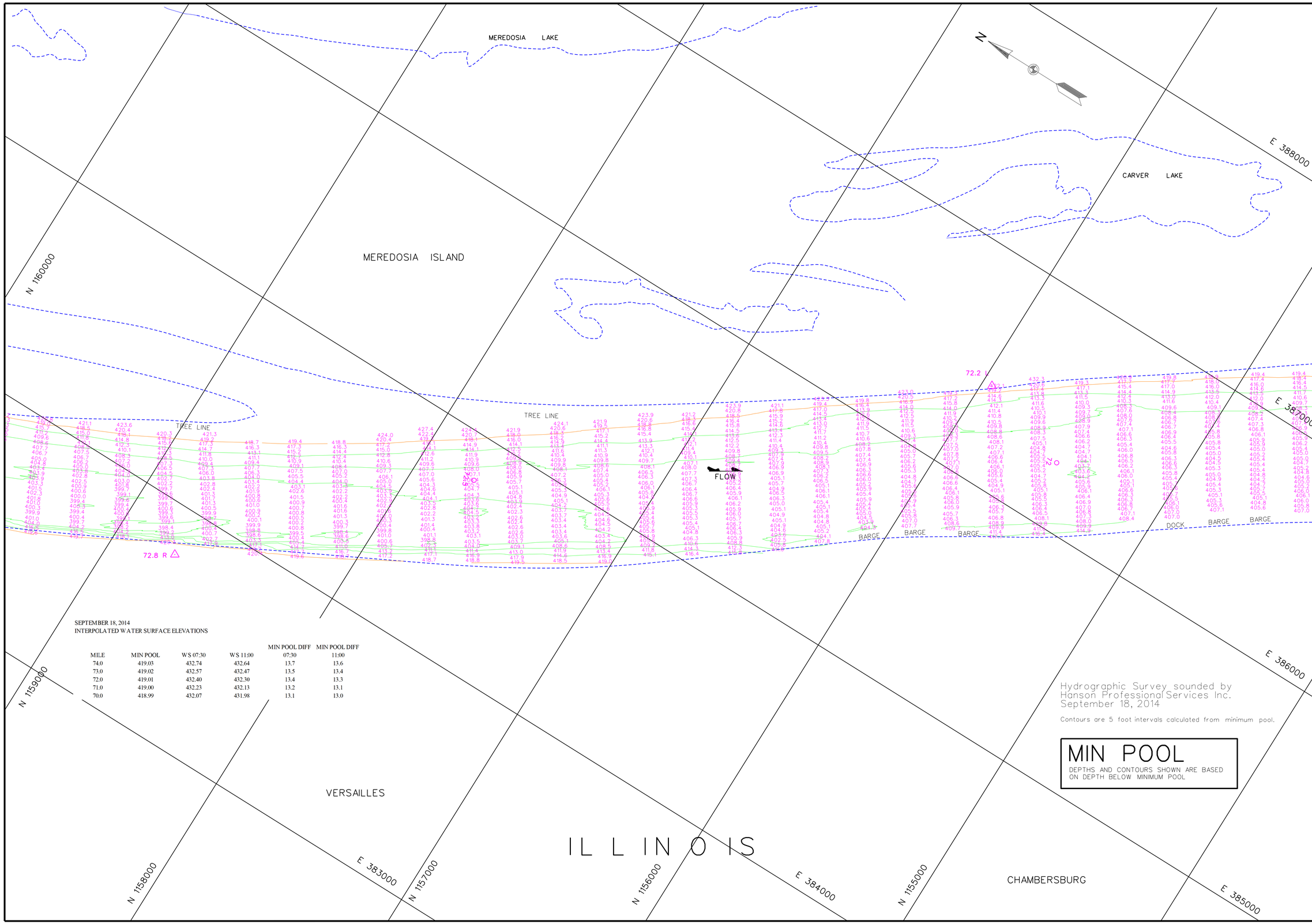
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 60 200 400 FEET

THE INFORMATION REPORTED IN THIS MAP REPRESENTS THE RESULTS OF A SURVEY OF THE RIVER BOTTOM AT THE TIME OF SURVEY AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
7



SEPTEMBER 18, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 11:00	MIN POOL DIFF 07:30	MIN POOL DIFF 11:00
74.0	419.03	432.74	432.64	13.7	13.6
73.0	419.02	432.57	432.47	13.5	13.4
72.0	419.01	432.40	432.30	13.4	13.3
71.0	419.00	432.23	432.13	13.2	13.1
70.0	418.99	432.07	431.98	13.1	13.0

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	LAGRANGE LOCK (L)	MEREDOSIA
ZERO N.G.V.D.		413.5	418.0
MILE		80.3	70.8
MIN POOL		419.1	419.0
DATE	18 SEP 2014	433.8 (07:30)	432.2 (07:30)
		433.7 (11:00)	432.1 (11:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1956-57 LOW WATER REFERENCE PLANE (L.W.R.P.) (34,000 C.F.S.)

Survey Date: Sept. 18, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

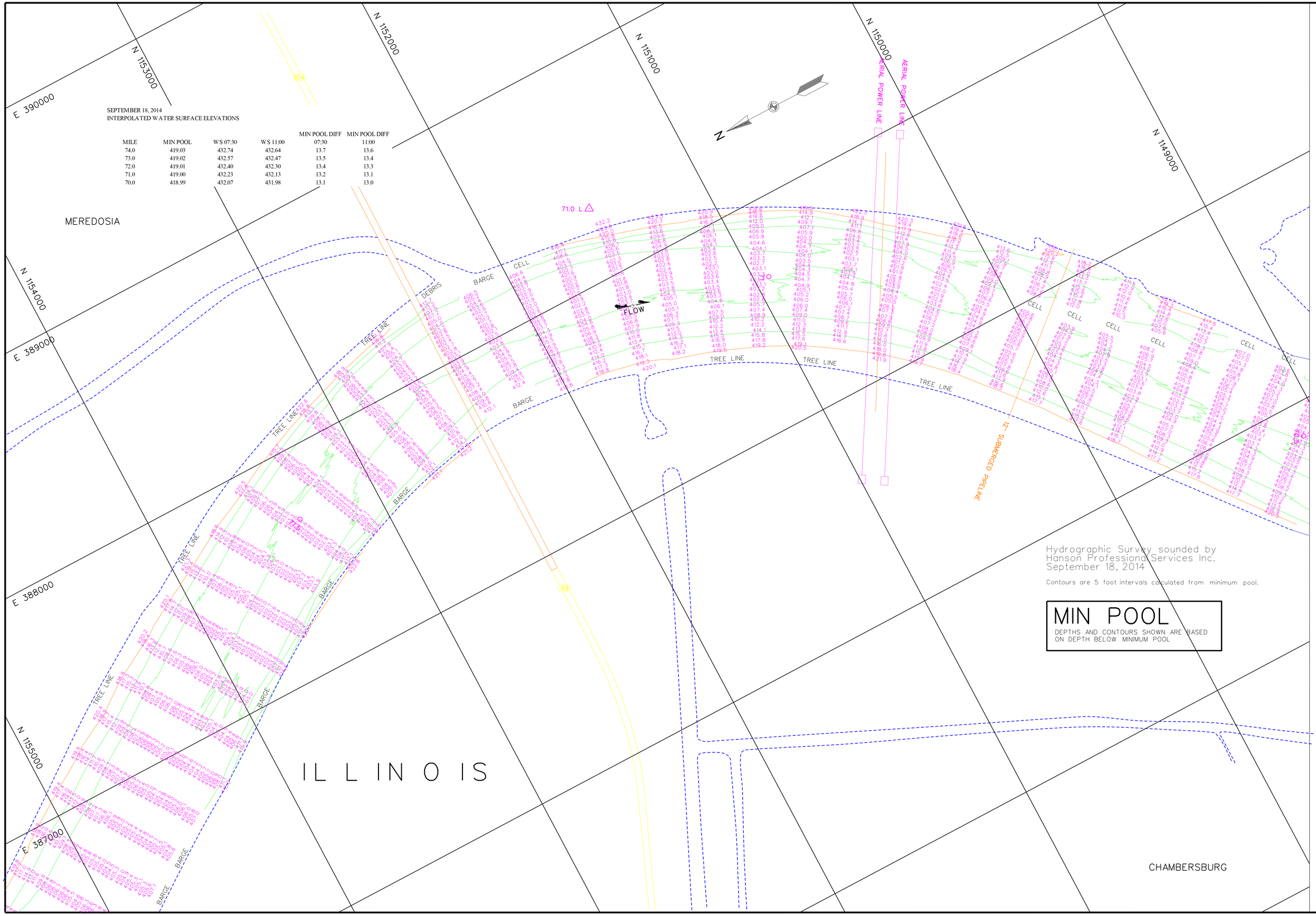
Surveyed by: HANSON
Drawn by: JLK
Checked by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 200 400 FEET
THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE SHOWN AND IS INTERPRETED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
8



SEPTEMBER 18, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 11:00	MIN POOL DIFF 07:30	MIN POOL DIFF 11:00
74.0	419.03	432.74	432.64	13.7	13.6
73.0	419.02	432.57	432.47	13.5	13.4
72.0	419.01	432.40	432.30	13.4	13.3
71.0	419.00	432.23	432.13	13.2	13.1
70.0	418.99	432.07	431.98	13.1	13.0

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	LAGRANGE LOCK (L)	MEREDOSIA
ZERO N.G.V.D.		413.5	418.0
MILE		80.3	70.8
MIN POOL		419.1	419.0
DATE	18 SEP 2014	433.8 (07:30)	432.2 (07:30)
		433.7 (11:00)	432.1 (11:00)

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.)

Survey Date: Sept. 18, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_000I1814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

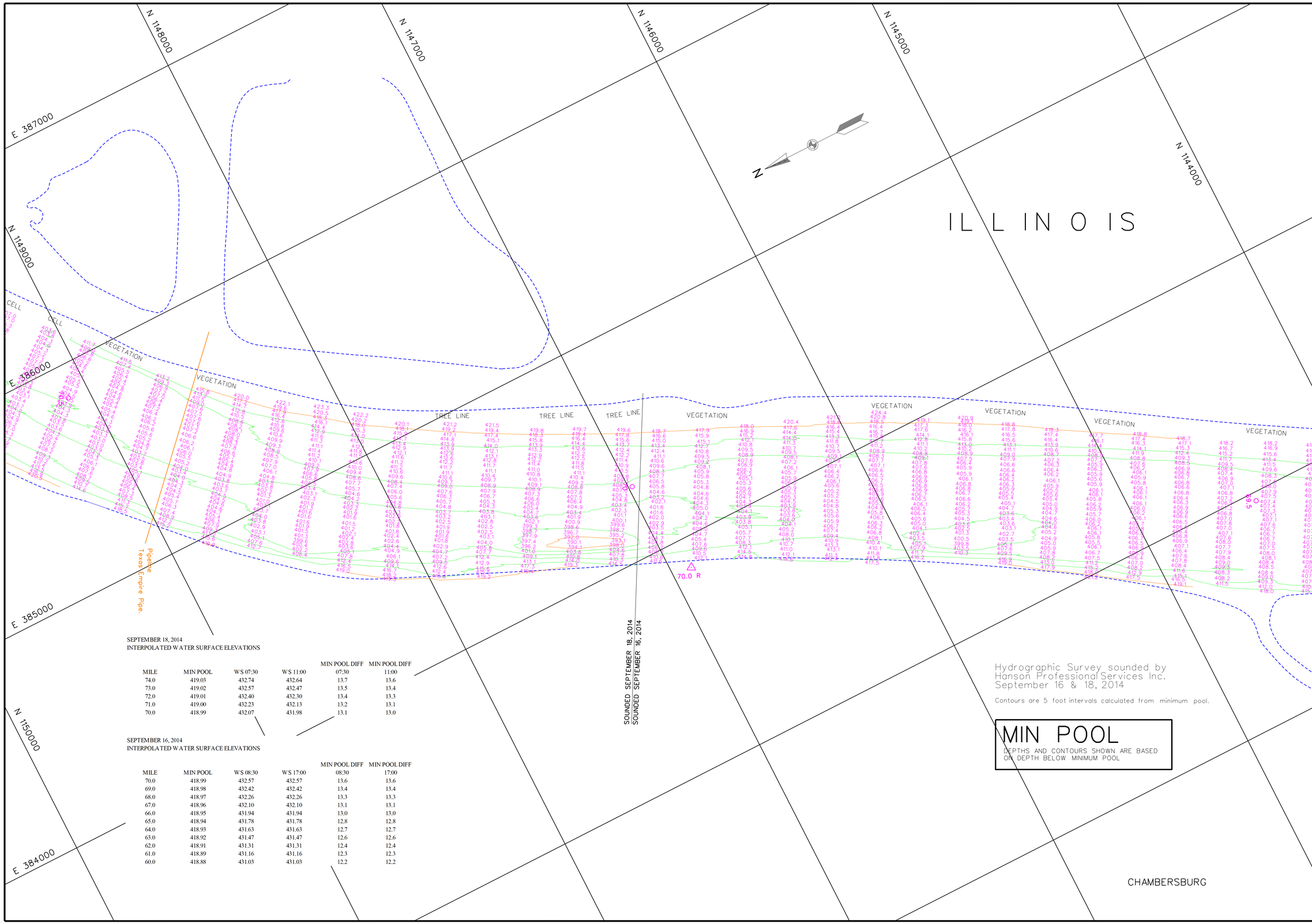
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

9



SEPTEMBER 18, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 11:00	MIN POOL DIFF 07:30	MIN POOL DIFF 11:00
74.0	419.03	432.74	432.64	13.7	13.6
73.0	419.02	432.57	432.47	13.5	13.4
72.0	419.01	432.40	432.30	13.4	13.3
71.0	419.00	432.23	432.13	13.2	13.1
70.0	418.99	432.07	431.98	13.1	13.0

SEPTEMBER 16, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:30	WS 17:00	MIN POOL DIFF 08:30	MIN POOL DIFF 17:00
70.0	418.99	432.57	432.57	13.6	13.6
69.0	418.98	432.42	432.42	13.4	13.4
68.0	418.97	432.26	432.26	13.3	13.3
67.0	418.96	432.10	432.10	13.1	13.1
66.0	418.95	431.94	431.94	13.0	13.0
65.0	418.94	431.78	431.78	12.8	12.8
64.0	418.93	431.63	431.63	12.7	12.7
63.0	418.92	431.47	431.47	12.6	12.6
62.0	418.91	431.31	431.31	12.4	12.4
61.0	418.89	431.16	431.16	12.3	12.3
60.0	418.88	431.03	431.03	12.2	12.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 16 & 18, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MEREDOSIA	VALLEY CITY
ZERO N.G.V.D.		418.0	418.0
MILE		70.8	61.3
MIN POOL		419.0	418.9
DATE	16 SEP 2014	432.7 (08:30)	431.2 (08:30)
	18 SEP 2014	432.2 (07:30)	430.7 (07:30)

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.)

Survey Date: Sept. 16&18, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_00011814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

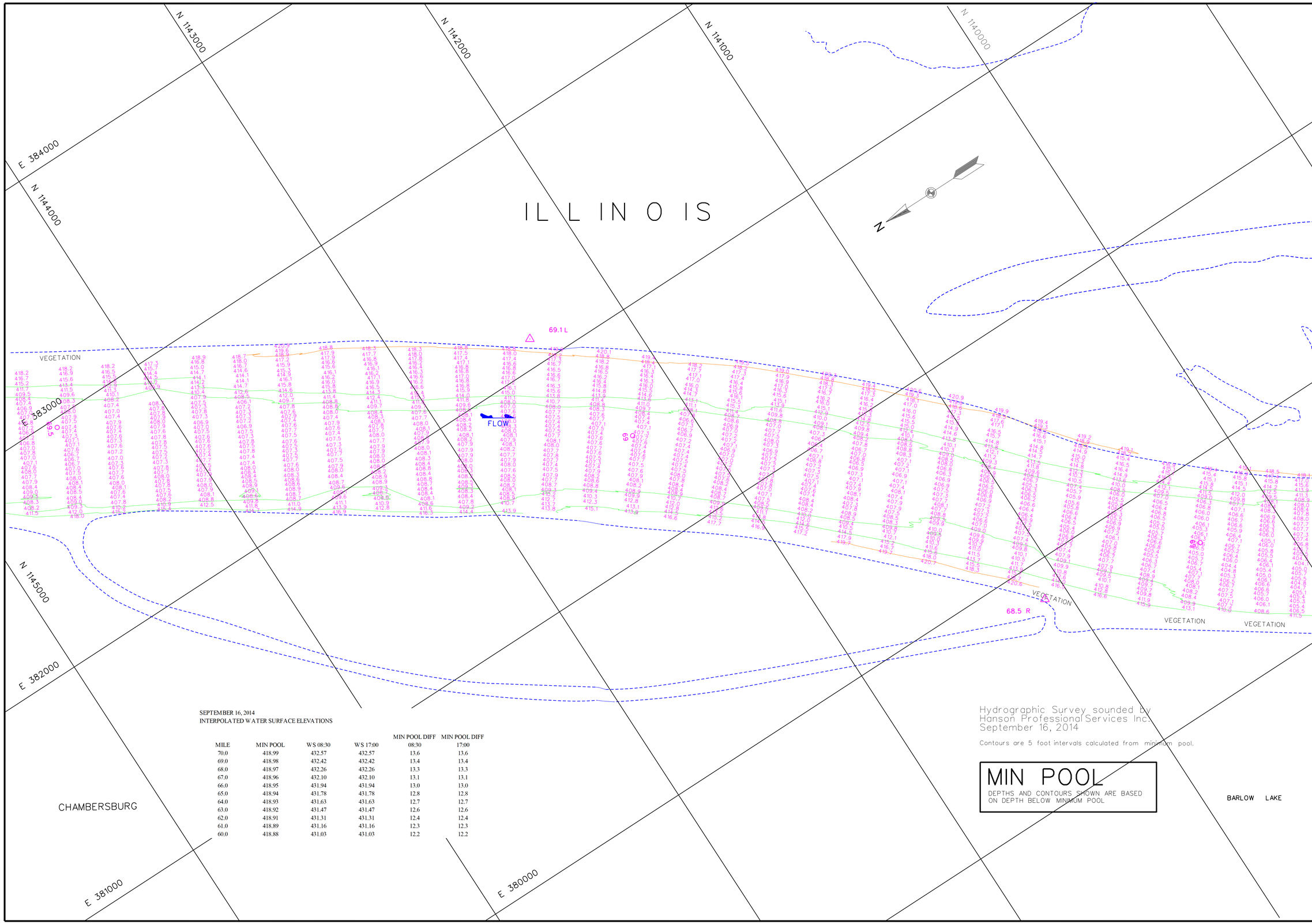
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

10



SEPTEMBER 16, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:30	WS 17:00	MIN POOL DIFF 08:30	MIN POOL DIFF 17:00
70.0	418.99	432.57	432.57	13.6	13.6
69.0	418.98	432.42	432.42	13.4	13.4
68.0	418.97	432.26	432.26	13.3	13.3
67.0	418.96	432.10	432.10	13.1	13.1
66.0	418.95	431.94	431.94	13.0	13.0
65.0	418.94	431.78	431.78	12.8	12.8
64.0	418.93	431.63	431.63	12.7	12.7
63.0	418.92	431.47	431.47	12.6	12.6
62.0	418.91	431.31	431.31	12.4	12.4
61.0	418.89	431.16	431.16	12.3	12.3
60.0	418.88	431.03	431.03	12.2	12.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 16, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MEREDOSIA	VALLEY CITY
ZERO N.G.V.D.		418.0	418.0
MILE		70.8	61.3
MIN. POOL		419.0	418.9
DATE	16 SEP 2014	432.7 (08:30) 432.7 (17:00)	431.2 (08:30) 431.2 (17:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

Survey Date: Sept. 16, 2014

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Cksd by: JCL
Reviewed by:
APPROVED: Chief, Geospatial Branch

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

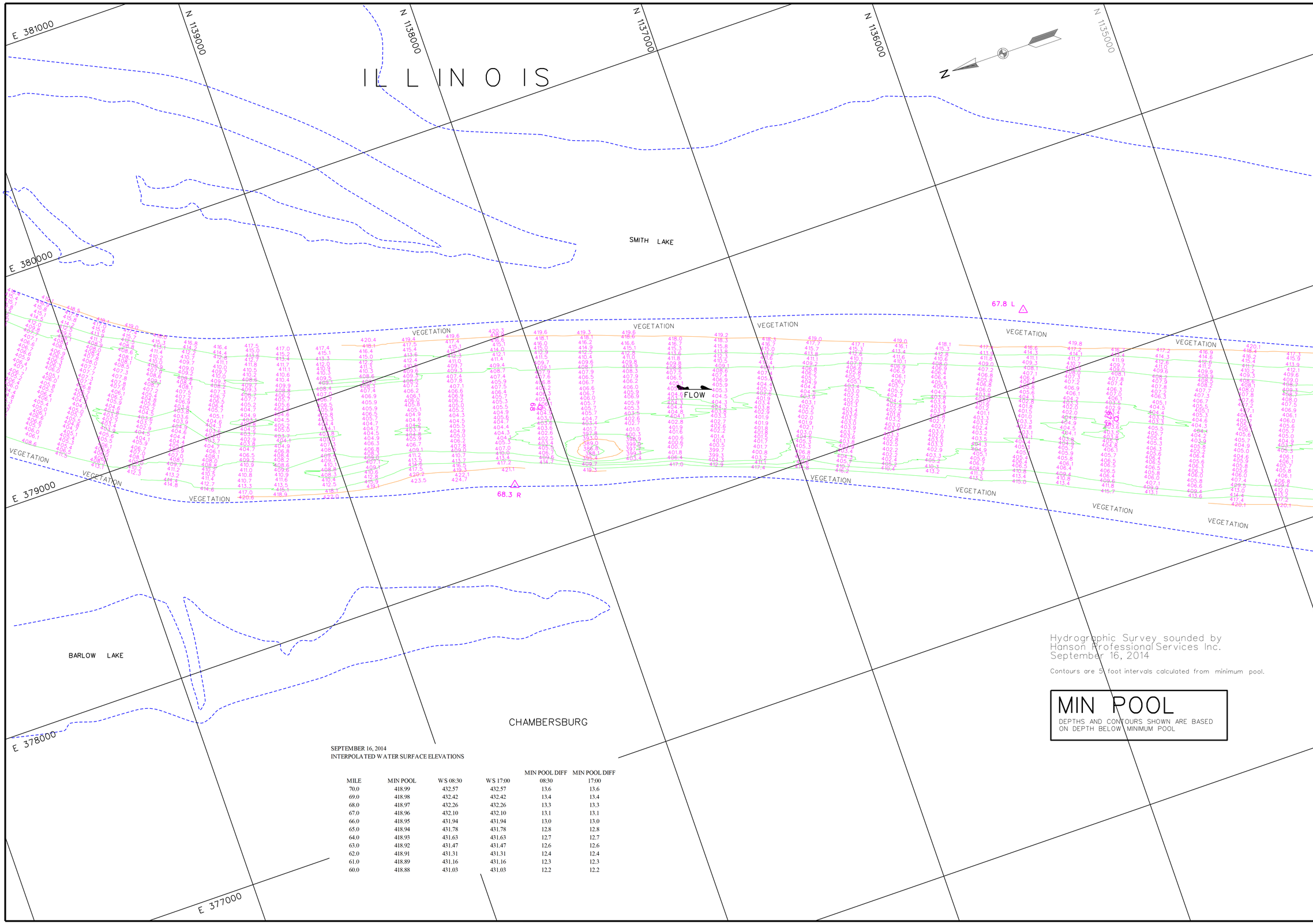
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS
400 FEET
60 0 60
200 0 200

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE TIME AND DATE INDICATED AND DOES NOT NECESSARILY AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

11



Hydrographic Survey sounded by Hanson Professional Services Inc. September 16, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

SEPTEMBER 16, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:30	WS 17:00	MIN POOL DIFF 08:30	MIN POOL DIFF 17:00
70.0	418.99	432.57	432.57	13.6	13.6
69.0	418.98	432.42	432.42	13.4	13.4
68.0	418.97	432.26	432.26	13.3	13.3
67.0	418.96	432.10	432.10	13.1	13.1
66.0	418.95	431.94	431.94	13.0	13.0
65.0	418.94	431.78	431.78	12.8	12.8
64.0	418.93	431.63	431.63	12.7	12.7
63.0	418.92	431.47	431.47	12.6	12.6
62.0	418.91	431.31	431.31	12.4	12.4
61.0	418.89	431.16	431.16	12.3	12.3
60.0	418.88	431.03	431.03	12.2	12.2

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MEREDOSIA	VALLEY CITY
ZERO N.G.V.D.		418.0	418.0
MILE		70.8	61.3
MIN POOL		419.0	418.9
DATE	16 SEP 2014	432.7 (08:30)	431.2 (08:30)
		432.7 (17:00)	431.2 (17:00)

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.)

Survey Date: Sept. 16, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

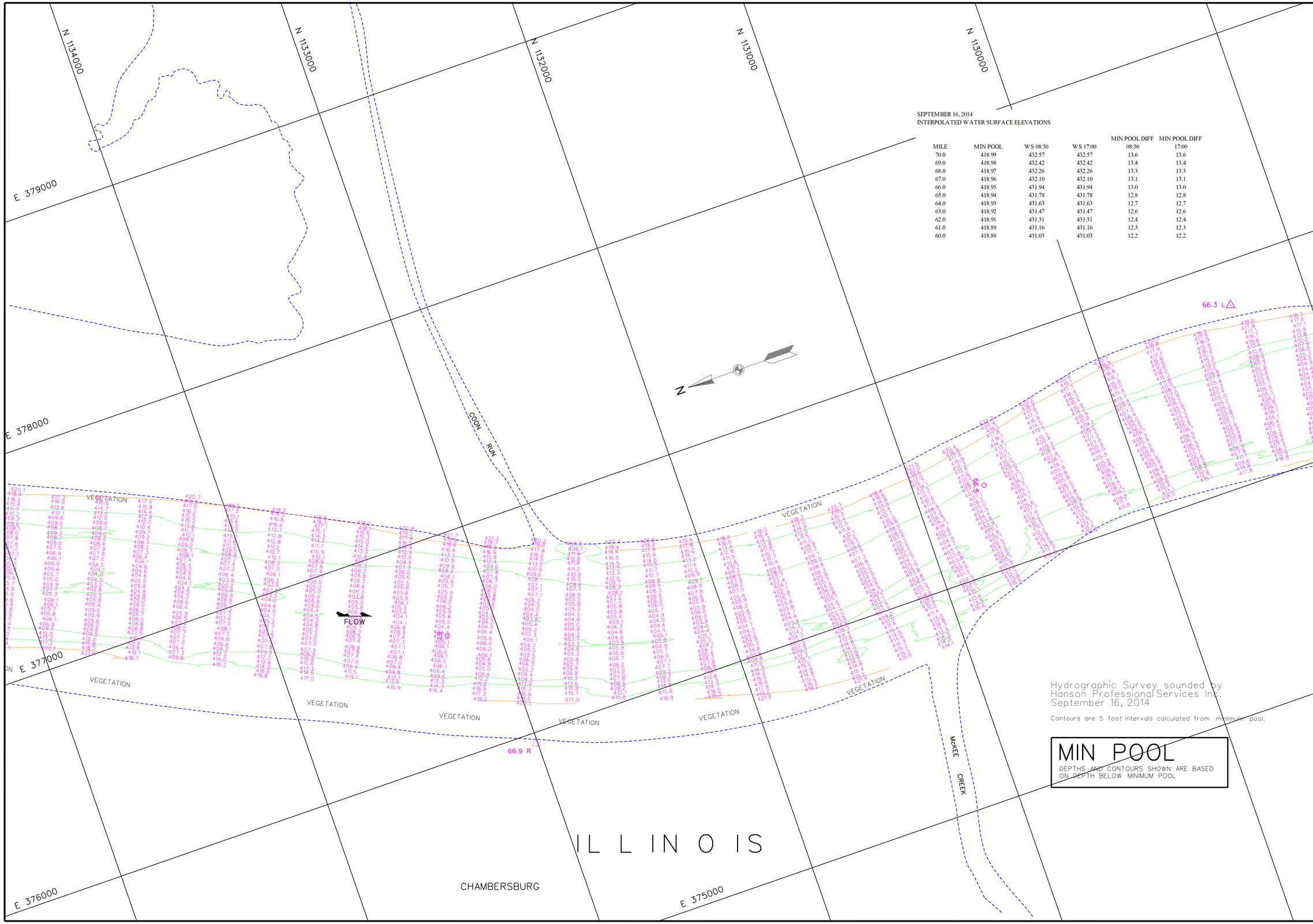
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
12



SEPTEMBER 16, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:30	WS 17:00	MIN POOL DIFF 08:30	MIN POOL DIFF 17:00
70.0	418.99	432.57	432.57	13.6	13.6
69.0	418.98	432.42	432.42	13.4	13.4
68.0	418.97	432.26	432.26	13.3	13.3
67.0	418.96	432.10	432.10	13.1	13.1
66.0	418.95	431.94	431.94	13.0	13.0
65.0	418.94	431.78	431.78	12.8	12.8
64.0	418.93	431.63	431.63	12.7	12.7
63.0	418.92	431.47	431.47	12.6	12.6
62.0	418.91	431.31	431.31	12.4	12.4
61.0	418.89	431.16	431.16	12.3	12.3
60.0	418.88	431.03	431.03	12.2	12.2

Hydrographic Survey sounded by Hanson Professional Services Inc. September 16, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MEREDOSIA	VALLEY CITY
ZERO N.G.V.D.		418.0	418.0
MILE		70.8	61.3
MIN POOL		419.0	418.9
DATE	16 SEP 2014	432.7 (08:30)	431.2 (08:30)
		432.7 (17:00)	431.2 (17:00)

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.)

Survey Date: Sept. 16, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_00011814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

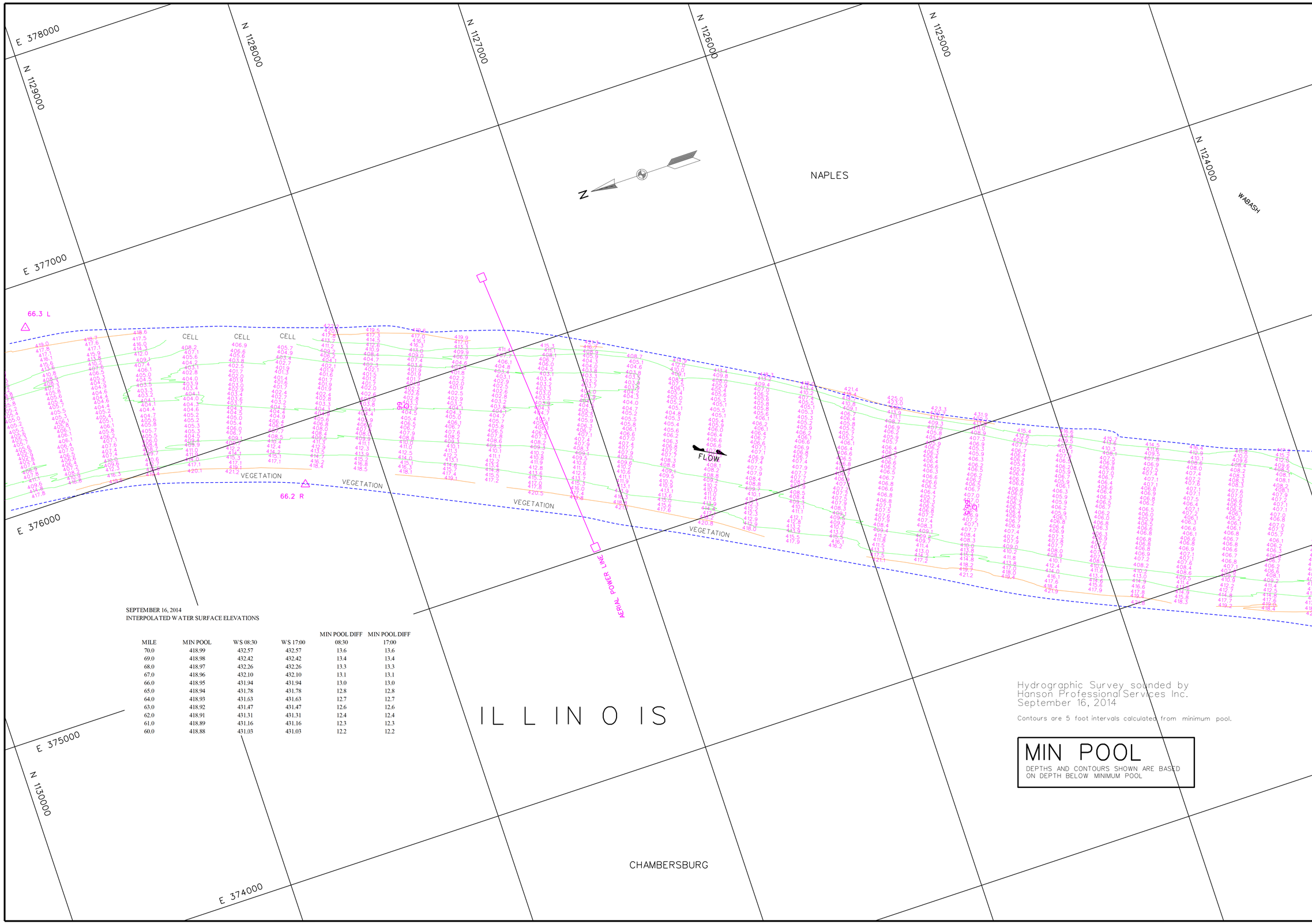
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

13



SEPTEMBER 16, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:30	WS 17:00	MIN POOL DIFF 08:30	MIN POOL DIFF 17:00
70.0	418.99	432.57	432.57	13.6	13.6
69.0	418.98	432.42	432.42	13.4	13.4
68.0	418.97	432.26	432.26	13.3	13.3
67.0	418.96	432.10	432.10	13.1	13.1
66.0	418.95	431.94	431.94	13.0	13.0
65.0	418.94	431.78	431.78	12.8	12.8
64.0	418.93	431.63	431.63	12.7	12.7
63.0	418.92	431.47	431.47	12.6	12.6
62.0	418.91	431.31	431.31	12.4	12.4
61.0	418.89	431.16	431.16	12.3	12.3
60.0	418.88	431.03	431.03	12.2	12.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 16, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MEREDOSIA	VALLEY CITY
ZERO N.G.V.D.		418.0	418.0
MILE		70.8	61.3
MIN POOL		419.0	418.9
DATE	16 SEP 2014	432.7 (08:30)	431.2 (08:30)
		432.7 (17:00)	431.2 (17:00)

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.)

Survey Date: Sept. 16, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

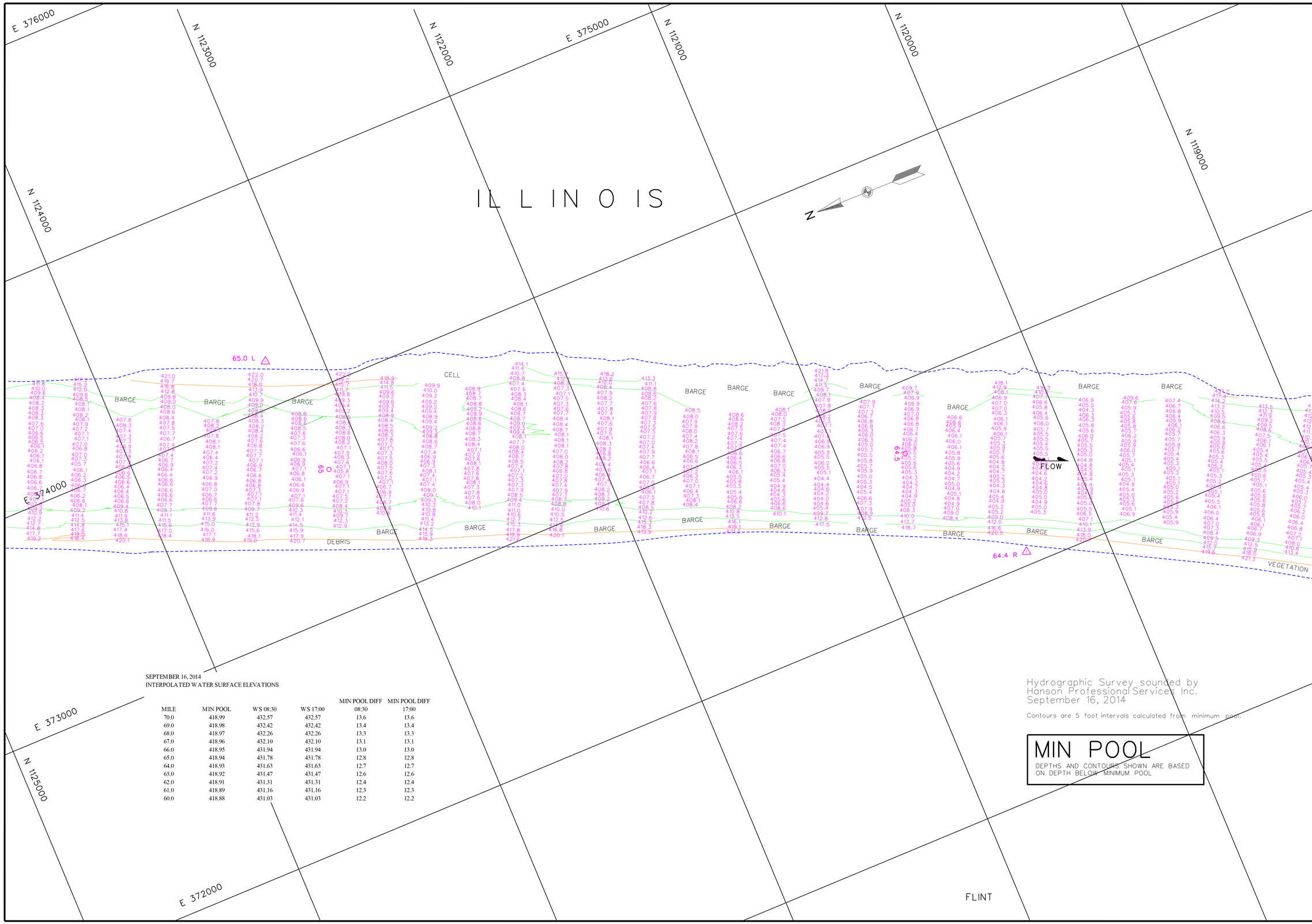
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
14



SEPTEMBER 16, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:30	WS 17:00	MIN POOL DIFF 08:30	MIN POOL DIFF 17:00
70.0	418.99	432.57	432.57	13.6	13.6
69.0	418.98	432.42	432.42	13.4	13.4
68.0	418.97	432.26	432.26	13.3	13.3
67.0	418.96	432.10	432.10	13.1	13.1
66.0	418.95	431.94	431.94	13.0	13.0
65.0	418.94	431.78	431.78	12.8	12.8
64.0	418.93	431.63	431.63	12.7	12.7
63.0	418.92	431.47	431.47	12.6	12.6
62.0	418.91	431.31	431.31	12.4	12.4
61.0	418.89	431.16	431.16	12.3	12.3
60.0	418.88	431.03	431.03	12.2	12.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 16, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MEREDOSIA	VALLEY CITY
ZERO N.G.V.D.		418.0	418.0
MILE		70.8	61.3
MIN. POOL		419.0	418.9
DATE	16 SEP 2014	432.7 (08:30) 432.7 (17:00)	431.2 (08:30) 431.2 (17:00)

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.)

Survey Date: Sept. 16, 2014

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

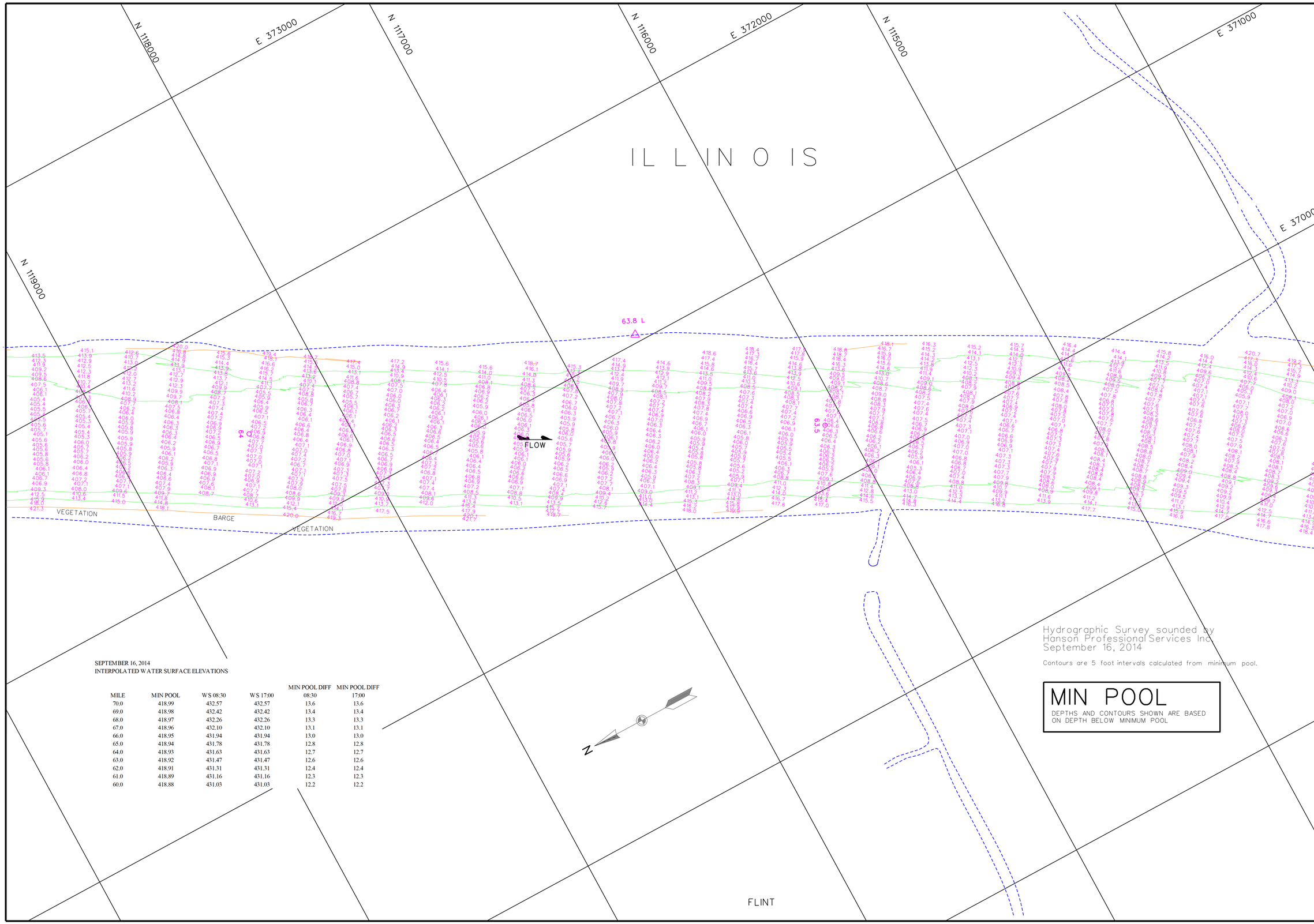
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS
400 FEET
60 0 60 200 0 200

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE INDICATED AND MAY NOT BE ACCURATE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
15



SEPTEMBER 16, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:30	WS 17:00	MIN POOL DIFF 08:30	MIN POOL DIFF 17:00
70.0	418.99	432.57	432.57	13.6	13.6
69.0	418.98	432.42	432.42	13.4	13.4
68.0	418.97	432.26	432.26	13.3	13.3
67.0	418.96	432.10	432.10	13.1	13.1
66.0	418.95	431.94	431.94	13.0	13.0
65.0	418.94	431.78	431.78	12.8	12.8
64.0	418.93	431.63	431.63	12.7	12.7
63.0	418.92	431.47	431.47	12.6	12.6
62.0	418.91	431.31	431.31	12.4	12.4
61.0	418.89	431.16	431.16	12.3	12.3
60.0	418.88	431.03	431.03	12.2	12.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 16, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MEREDOSIA	VALLEY CITY
ZERO N.G.V.D.		418.0	418.0
MILE		70.8	61.3
MIN POOL		419.0	418.9
DATE	16 SEP 2014	432.7 (08:30)	431.2 (08:30)
		432.7 (17:00)	431.2 (17:00)

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.)

Survey Date: Sept. 16, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

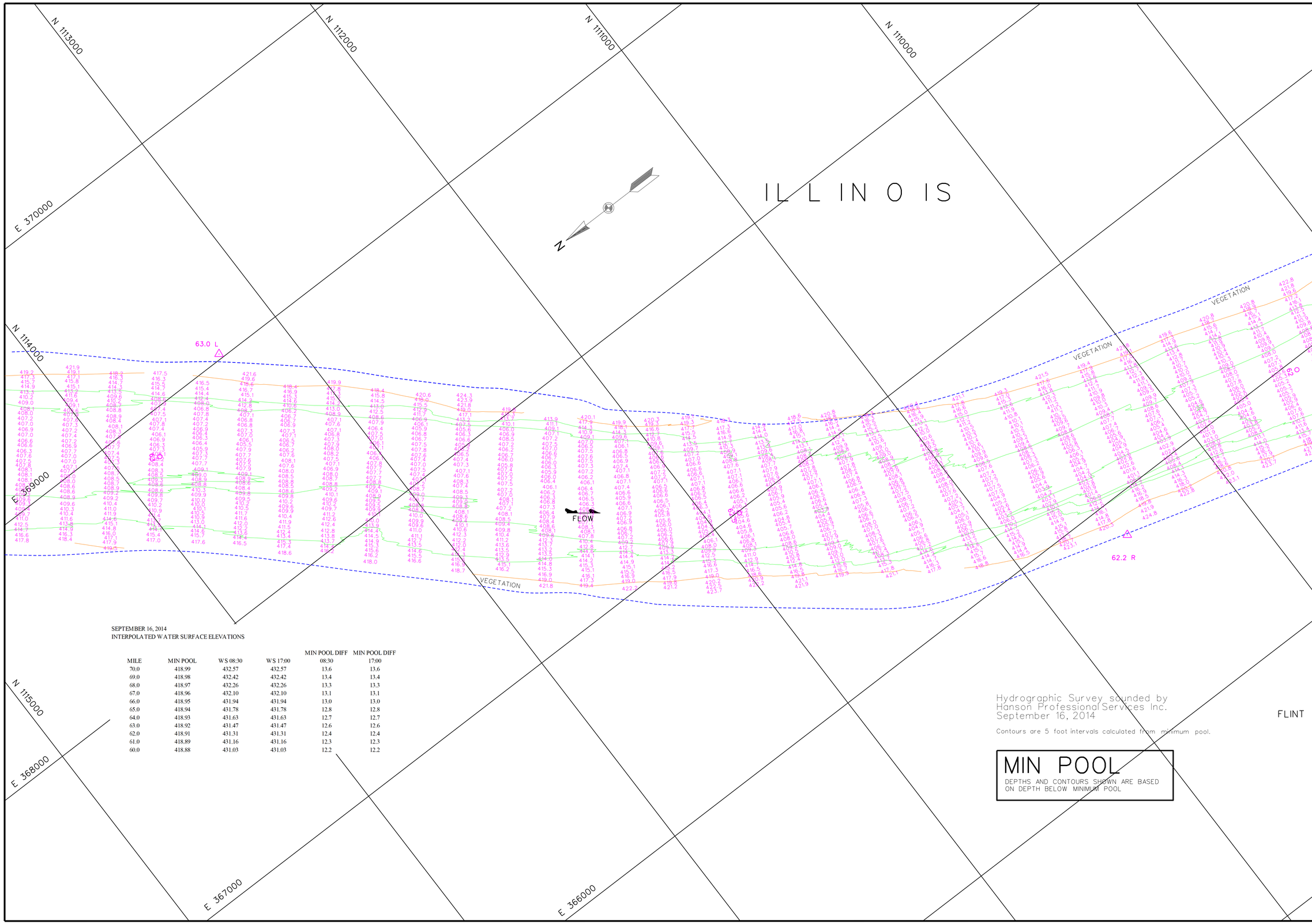
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

16



SEPTEMBER 16, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:30	WS 17:00	MIN POOL DIFF 08:30	MIN POOL DIFF 17:00
70.0	418.99	432.57	432.57	13.6	13.6
69.0	418.98	432.42	432.42	13.4	13.4
68.0	418.97	432.26	432.26	13.3	13.3
67.0	418.96	432.10	432.10	13.1	13.1
66.0	418.95	431.94	431.94	13.0	13.0
65.0	418.94	431.78	431.78	12.8	12.8
64.0	418.93	431.63	431.63	12.7	12.7
63.0	418.92	431.47	431.47	12.6	12.6
62.0	418.91	431.31	431.31	12.4	12.4
61.0	418.89	431.16	431.16	12.3	12.3
60.0	418.88	431.03	431.03	12.2	12.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 16, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MEREDOSIA	VALLEY CITY
ZERO N.G.V.D.		418.0	418.0
MILE		70.8	61.3
MIN POOL		419.0	418.9
DATE	16 SEP 2014	432.7 (08:30)	431.2 (08:30)
		432.7 (17:00)	431.2 (17:00)

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.)

Survey Date: Sept. 16, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED: Chief, Geospatial Branch

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

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 200 400 FEET

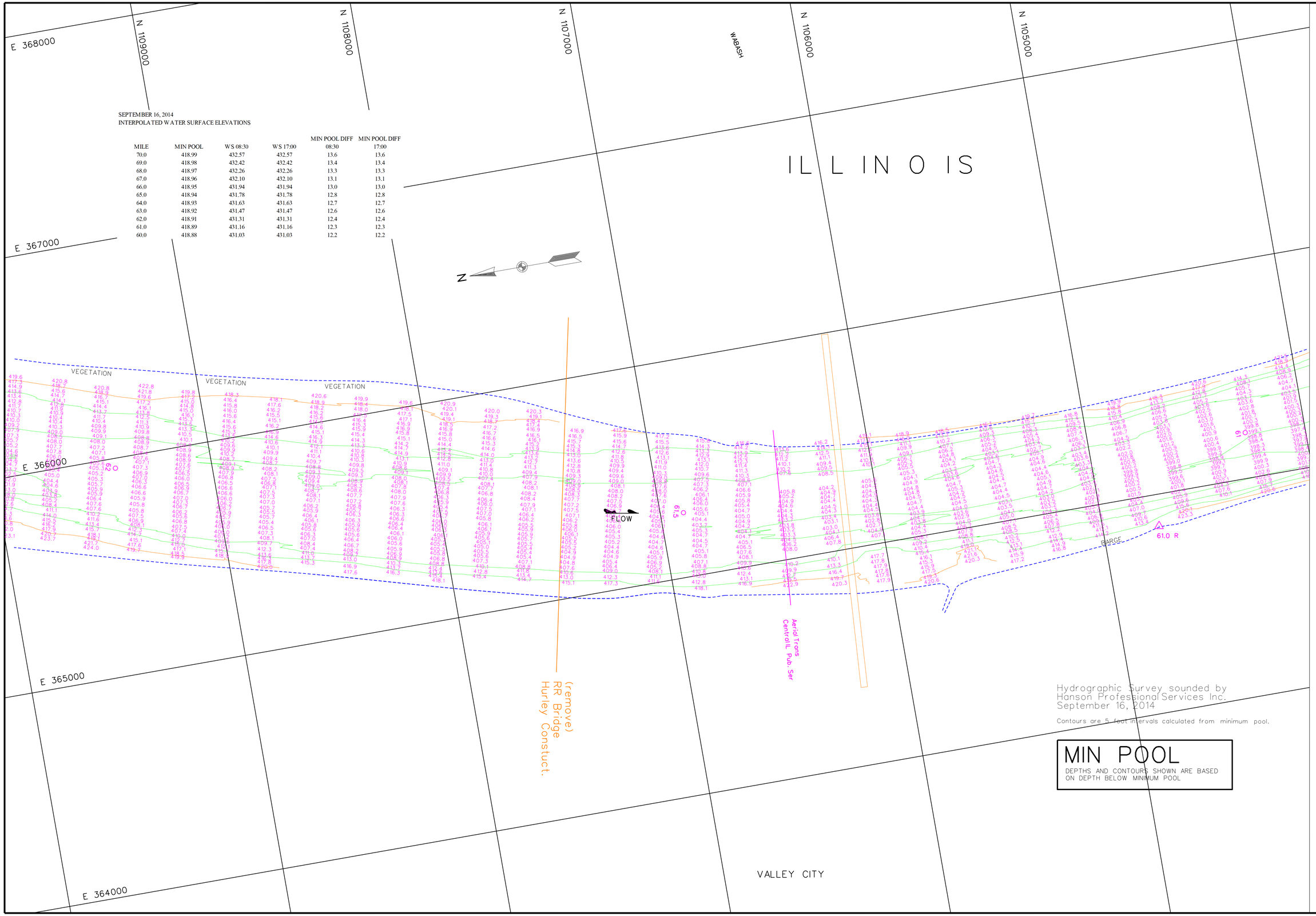
THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE(S) SHOWN AND IS INTENDED TO BE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

17

SEPTEMBER 16, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:30	WS 17:00	MIN POOL DIFF 08:30	MIN POOL DIFF 17:00
70.0	418.99	432.57	432.57	13.6	13.6
69.0	418.98	432.42	432.42	13.4	13.4
68.0	418.97	432.26	432.26	13.3	13.3
67.0	418.96	432.10	432.10	13.1	13.1
66.0	418.95	431.94	431.94	13.0	13.0
65.0	418.94	431.78	431.78	12.8	12.8
64.0	418.93	431.63	431.63	12.7	12.7
63.0	418.92	431.47	431.47	12.6	12.6
62.0	418.91	431.31	431.31	12.4	12.4
61.0	418.89	431.16	431.16	12.3	12.3
60.0	418.88	431.03	431.03	12.2	12.2



Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 16, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MERCDOSIA	VALLEY CITY
ZERO N.G.V.D.		418.0	418.0
MILE		70.8	61.3
MIN POOL		419.0	418.9
DATE	16 SEP 2014	432.7 (08:30) 432.7 (17:00)	431.2 (08:30) 431.2 (17:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (34,000 C.F.S.)

Survey Date: Sept. 16, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED: Chief, Geospatial Branch

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

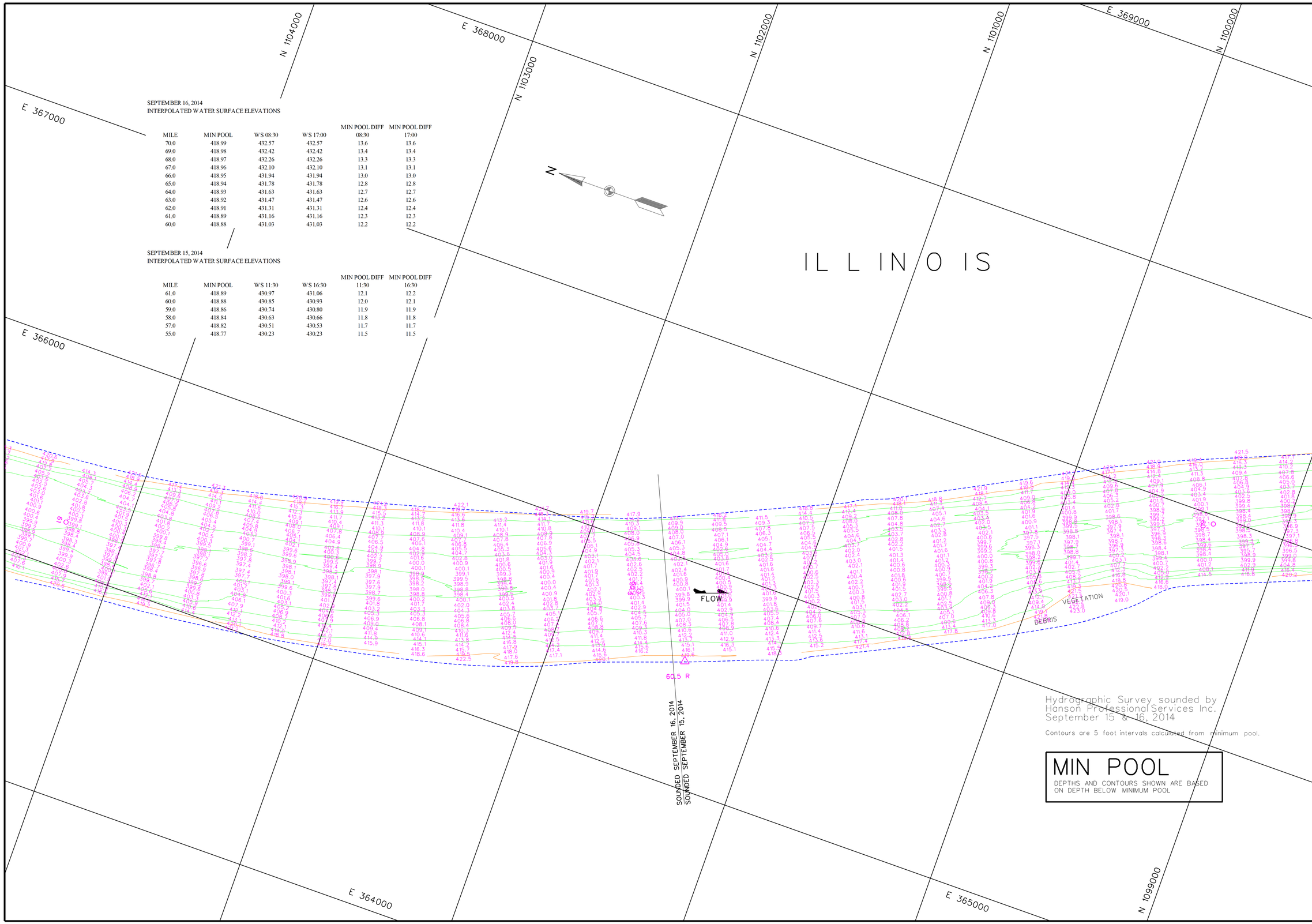
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 200 400 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESOURCE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

18



SEPTEMBER 16, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:30	WS 17:00	MIN POOL DIFF 08:30	MIN POOL DIFF 17:00
70.0	418.99	432.57	432.57	13.6	13.6
69.0	418.98	432.42	432.42	13.4	13.4
68.0	418.97	432.26	432.26	13.3	13.3
67.0	418.96	432.10	432.10	13.1	13.1
66.0	418.95	431.94	431.94	13.0	13.0
65.0	418.94	431.78	431.78	12.8	12.8
64.0	418.93	431.63	431.63	12.7	12.7
63.0	418.92	431.47	431.47	12.6	12.6
62.0	418.91	431.31	431.31	12.4	12.4
61.0	418.89	431.16	431.16	12.3	12.3
60.0	418.88	431.03	431.03	12.2	12.2

SEPTEMBER 15, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 11:30	WS 16:30	MIN POOL DIFF 11:30	MIN POOL DIFF 16:30
61.0	418.89	430.97	431.06	12.1	12.2
60.0	418.88	430.85	430.93	12.0	12.1
59.0	418.86	430.74	430.80	11.9	11.9
58.0	418.84	430.63	430.66	11.8	11.8
57.0	418.82	430.51	430.53	11.7	11.7
55.0	418.77	430.23	430.23	11.5	11.5

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	VALLEY CITY	FLORENCE
ZERO N.G.V.D.		418.0	400.0
MILE		61.3	56.0
MIN. POOL		418.9	418.8
DATE	15 SEP 2014	431.0 (11:30)	430.4 (11:30)
	16 SEP 2014	431.2 (08:30)	430.5 (08:30)

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.)

Survey Date: Sept. 15&16, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Cad by: JDL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

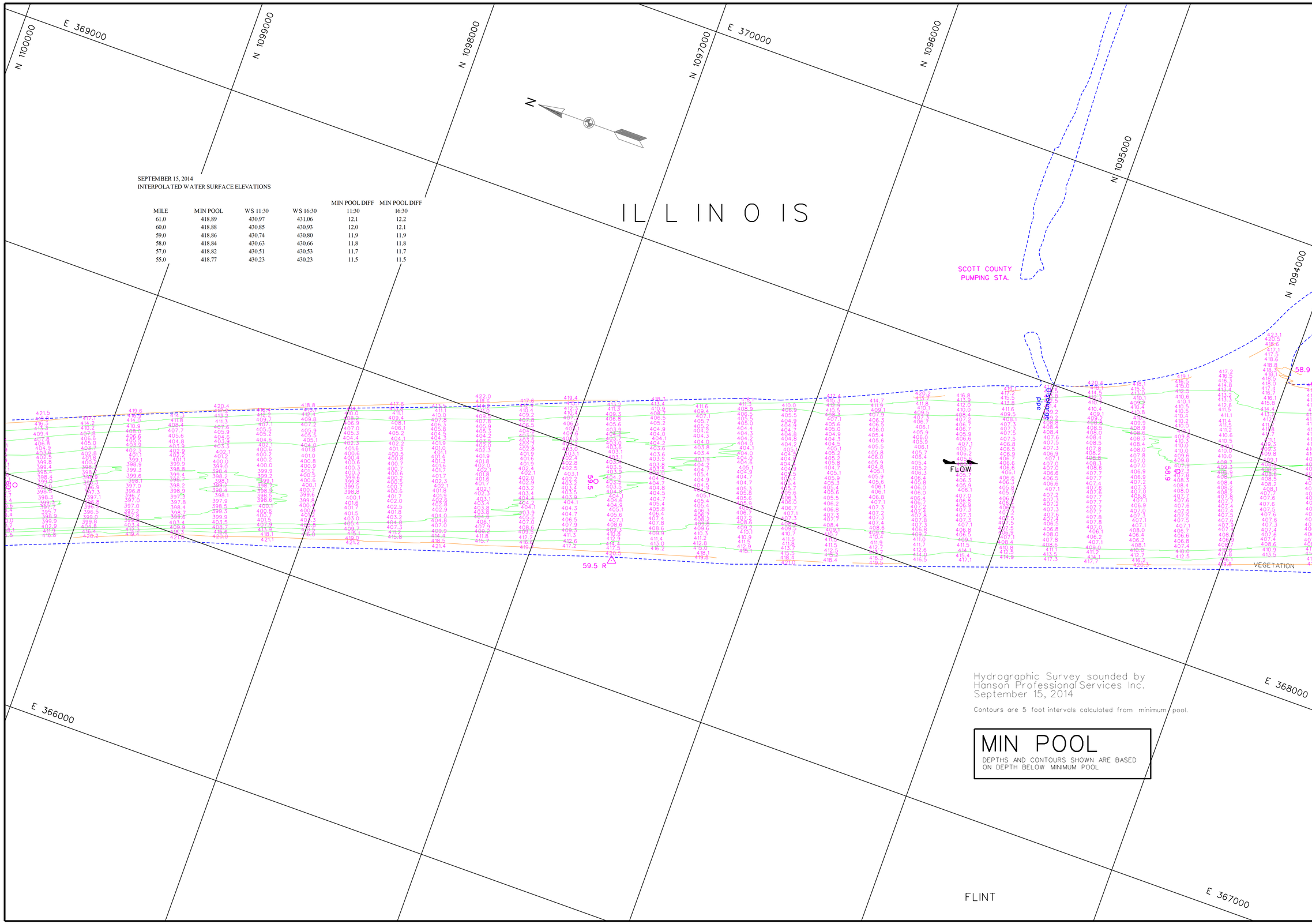
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 60 200
400 FEET 200 0 200 600

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE DATES SHOWN AND IS ACCURATE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
19



SEPTEMBER 15, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 11:30	WS 16:30	MIN POOL DIFF 11:30	MIN POOL DIFF 16:30
61.0	418.89	430.97	431.06	12.1	12.2
60.0	418.88	430.85	430.93	12.0	12.1
59.0	418.86	430.74	430.80	11.9	11.9
58.0	418.84	430.63	430.66	11.8	11.8
57.0	418.82	430.51	430.53	11.7	11.7
55.0	418.77	430.23	430.23	11.5	11.5

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 15, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	VALLEY CITY	FLORENCE
ZERO N.G.V.D.		418.0	400.0
MILE		61.3	56.0
MIN. POOL		418.9	418.8
DATE	15 SEP 2014	431.0 (11:30)	430.4 (11:30)
		431.1 (16:30)	430.4 (16:30)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

Survey Date: Sept. 15, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Cksd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

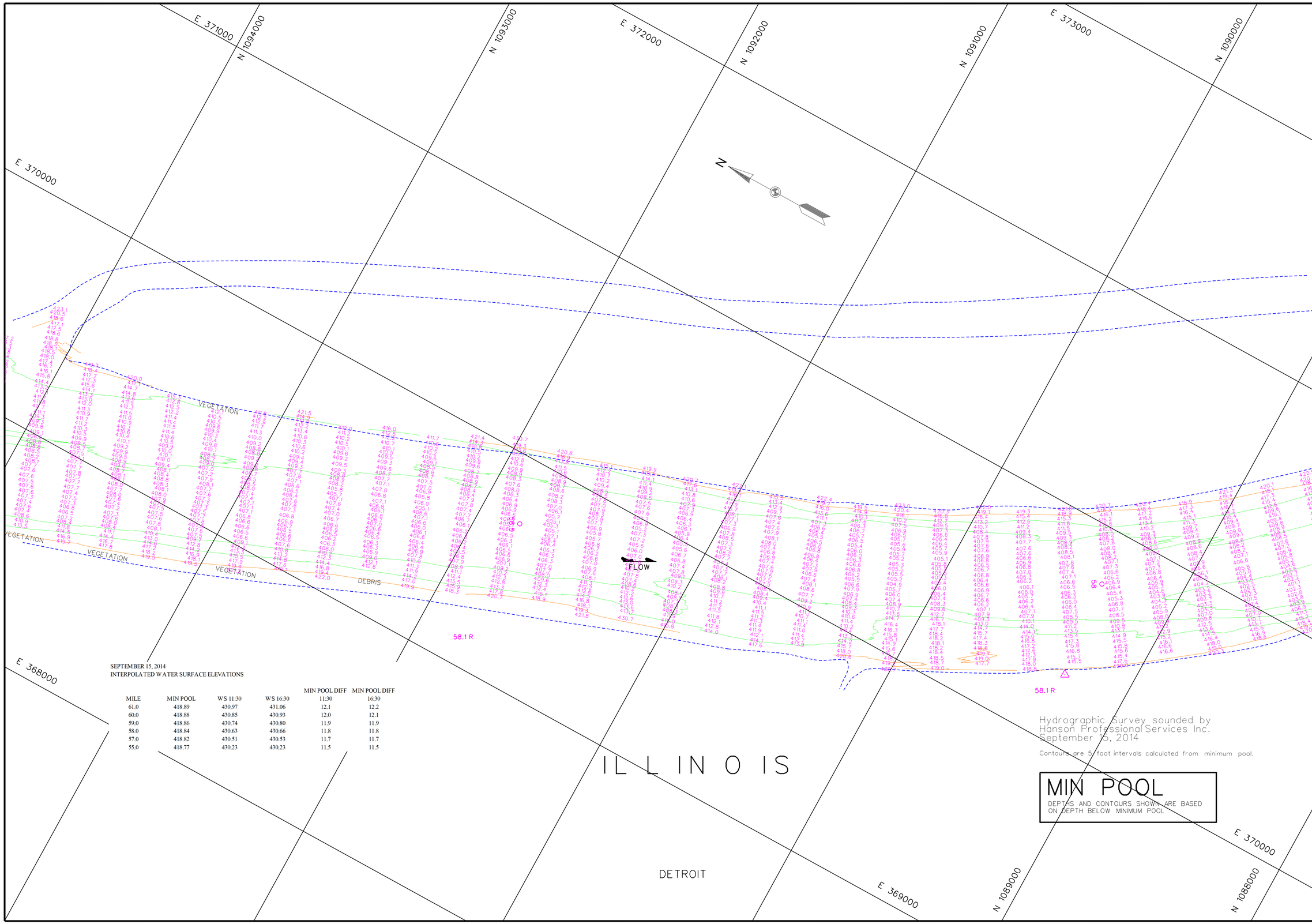
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 400 FEET
60 200
0 0
60 200

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE TIME SHOWN AND MAY NOT BE REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

20



SEPTEMBER 15, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 11:30	WS 16:30	MIN POOL DIFF 11:30	MIN POOL DIFF 16:30
61.0	418.89	430.97	431.06	12.1	12.2
60.0	418.88	430.85	430.93	12.0	12.1
59.0	418.86	430.74	430.80	11.9	11.9
58.0	418.84	430.63	430.66	11.8	11.8
57.0	418.82	430.51	430.53	11.7	11.7
55.0	418.77	430.23	430.23	11.5	11.5

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 15, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	VALLEY CITY	FLORENCE
ZERO N.G.V.D.		418.0	400.0
MILE		61.3	56.0
MIN POOL		418.9	418.8
DATE	15 SEP 2014	431.0 (11:30)	430.4 (11:30)
		431.1 (16:30)	430.4 (16:30)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 C.F.S.)

Survey Date: Sept. 15, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Checked by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

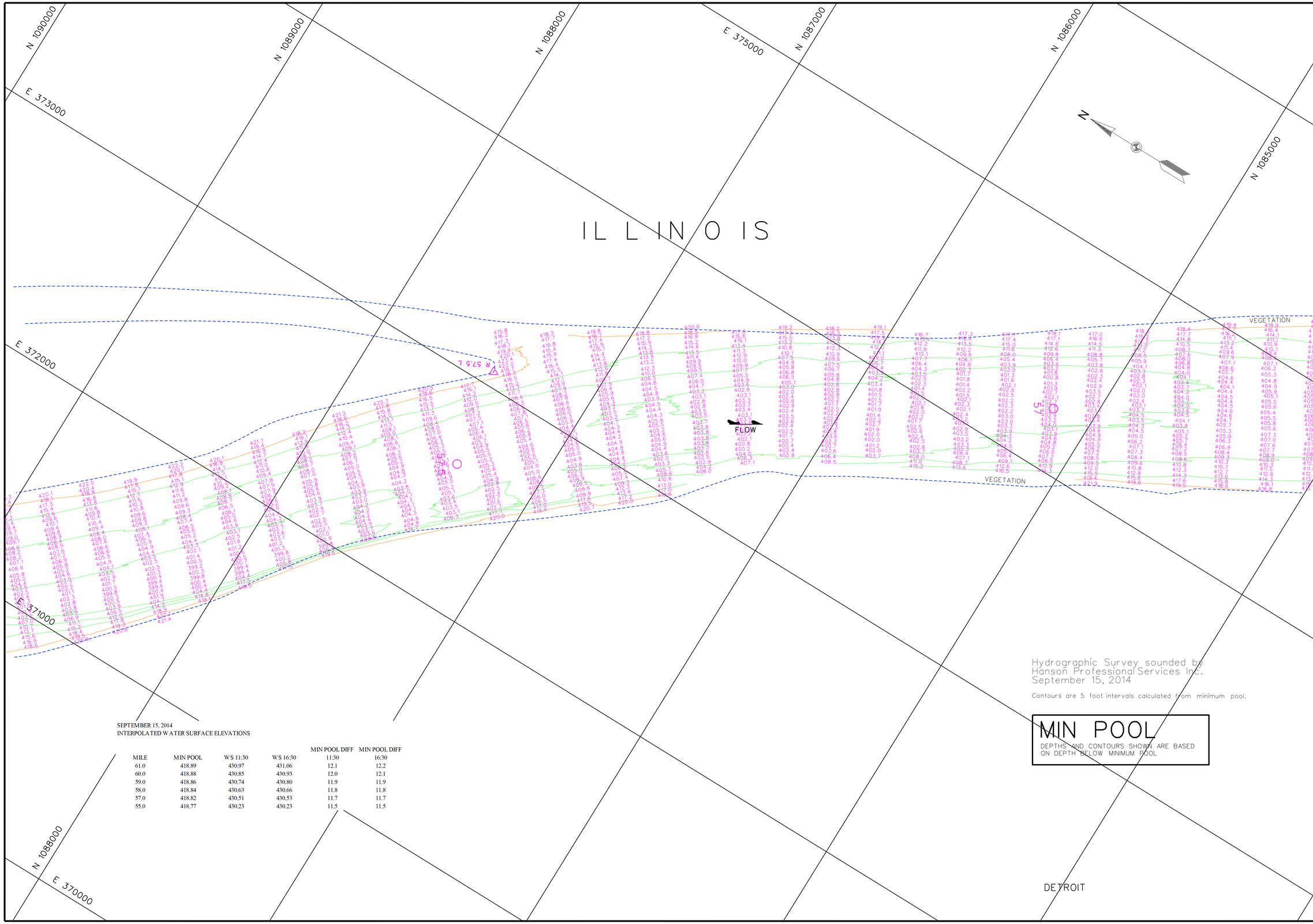
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 200 400 FEET

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE POSSIBLE CHANGES IN RIVER BOTTOM ELEVATIONS AS OF THE DATE OF SURVEY AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

21



SEPTEMBER 15, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 11:30	WS 16:30	MIN POOL DIFF 11:30	MIN POOL DIFF 16:30
61.0	418.89	430.97	431.06	12.1	12.2
60.0	418.88	430.85	430.93	12.0	12.1
59.0	418.86	430.74	430.80	11.9	11.9
58.0	418.84	430.63	430.66	11.8	11.8
57.0	418.82	430.51	430.53	11.7	11.7
55.0	418.77	430.23	430.23	11.5	11.5

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 15, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	VALLEY CITY	FLORENCE
ZERO N.G.V.D.		418.0	400.0
MILE		61.3	56.0
MIN POOL		418.9	418.8
DATE	15 SEP 2014	431.0 (11:30)	430.4 (11:30)
		431.1 (16:30)	430.4 (16:30)

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.)

Survey Date: Sept. 15, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

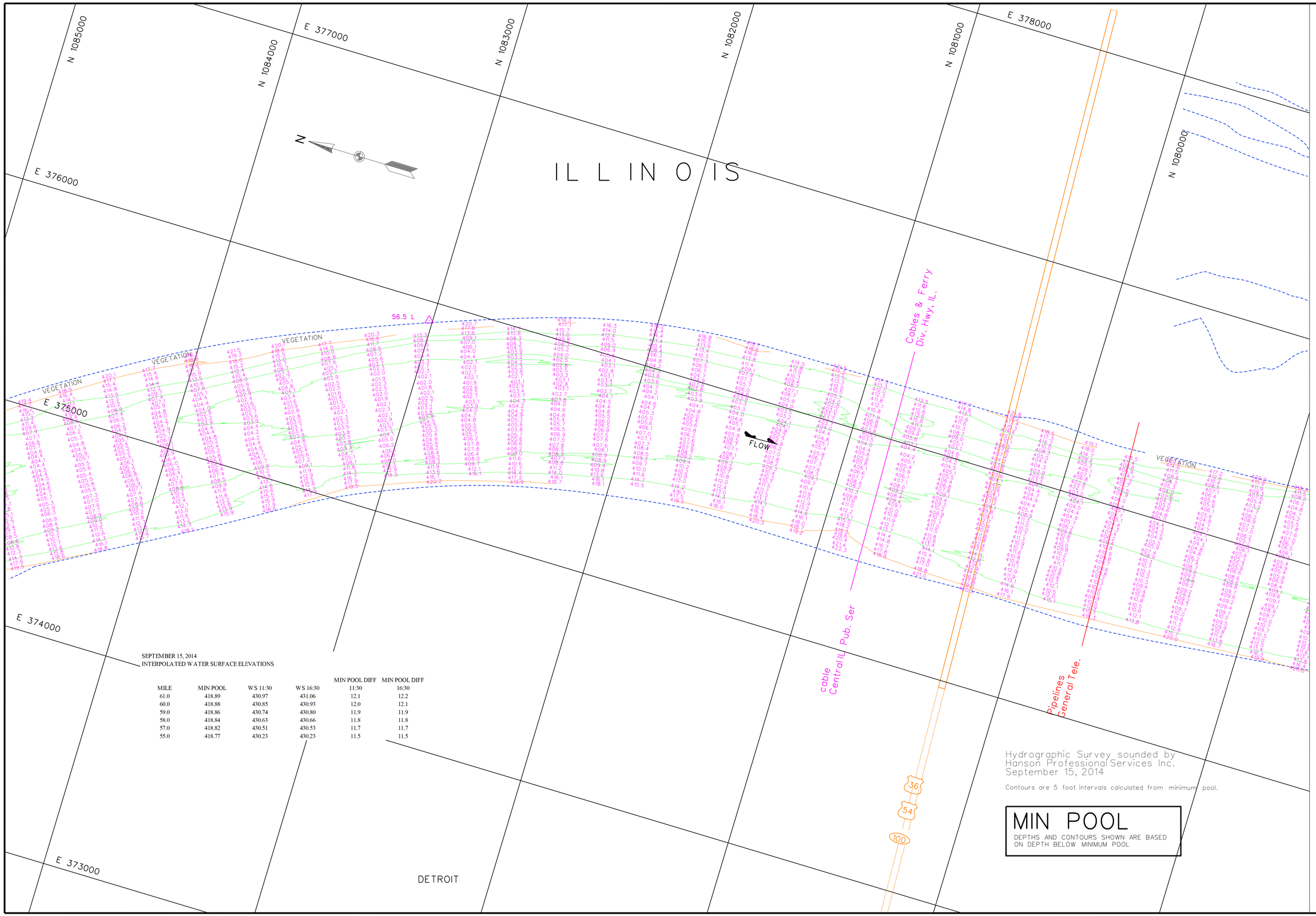
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

22



SEPTEMBER 15, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 11:30	WS 16:30	MIN POOL DIFF 11:30	MIN POOL DIFF 16:30
61.0	418.89	430.97	431.06	12.1	12.2
60.0	418.88	430.85	430.93	12.0	12.1
59.0	418.86	430.74	430.80	11.9	11.9
58.0	418.84	430.63	430.66	11.8	11.8
57.0	418.82	430.51	430.53	11.7	11.7
55.0	418.77	430.23	430.23	11.5	11.5

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 15, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	VALLEY CITY	FLORENCE
ZERO N.G.V.D.		418.0	400.0
MILE		61.3	56.0
MIN POOL		418.9	418.8
DATE	15 SEP 2014	431.0 (11:30)	430.4 (11:30)
		431.1 (16:30)	430.4 (16:30)

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.)

Survey Date: Sept. 15, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

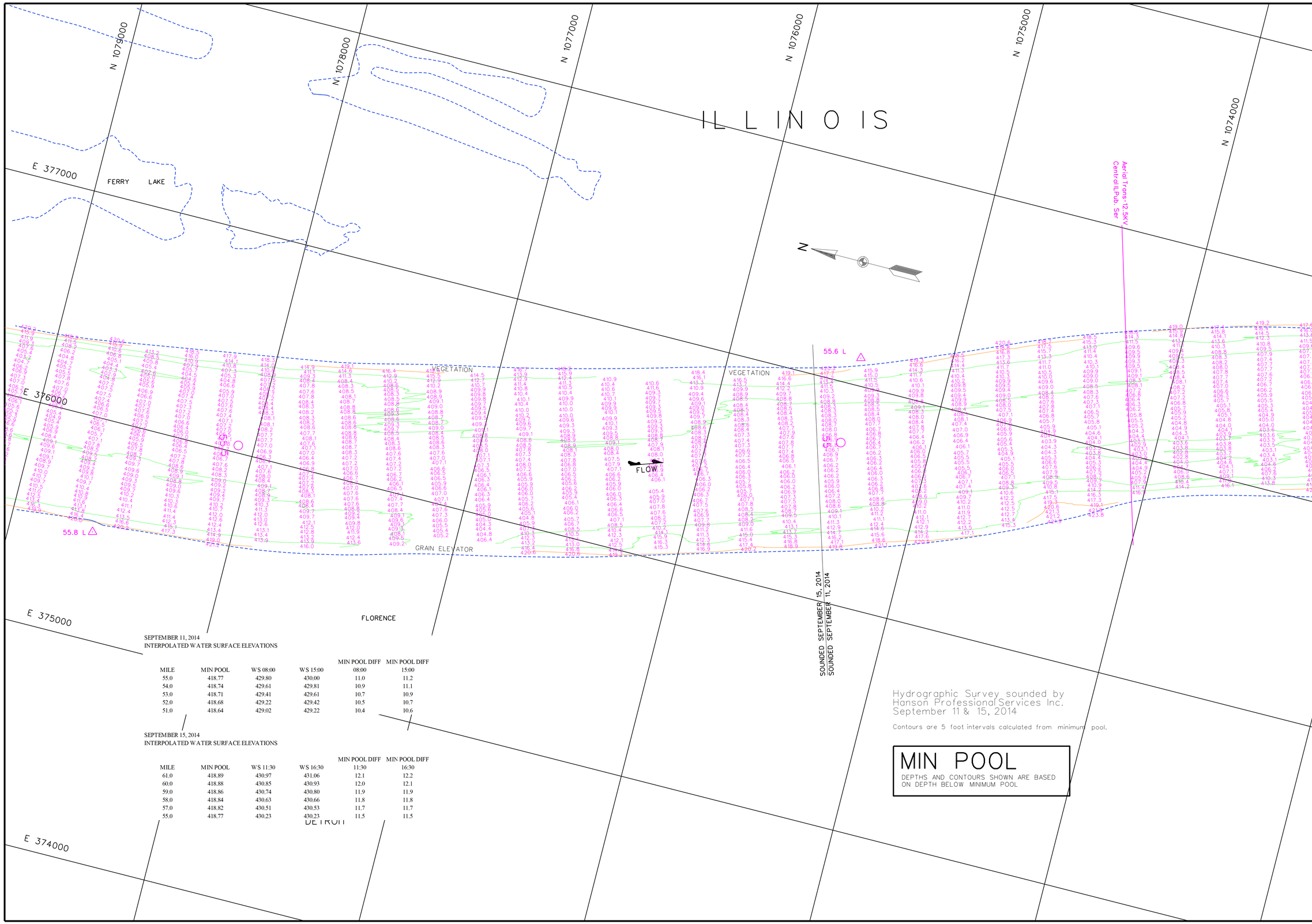
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
23



SEPTEMBER 11, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 15:00	MIN POOL DIFF 08:00	MIN POOL DIFF 15:00
55.0	418.77	429.80	430.00	11.0	11.2
54.0	418.74	429.61	429.81	10.9	11.1
53.0	418.71	429.41	429.61	10.7	10.9
52.0	418.68	429.22	429.42	10.5	10.7
51.0	418.64	429.02	429.22	10.4	10.6

SEPTEMBER 15, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 11:30	WS 16:30	MIN POOL DIFF 11:30	MIN POOL DIFF 16:30
61.0	418.89	430.97	431.06	12.1	12.2
60.0	418.88	430.85	430.93	12.0	12.1
59.0	418.86	430.74	430.80	11.9	11.9
58.0	418.84	430.63	430.66	11.8	11.8
57.0	418.82	430.51	430.53	11.7	11.7
55.0	418.77	430.23	430.23	11.5	11.5

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 11 & 15, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE			
	11 SEP 2014	430.0 (08:00)	427.5 (08:00)
	15 SEP 2014	430.4 (11:30)	428.2 (11:30)

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.)

Survey Date: Sept. 11&15, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

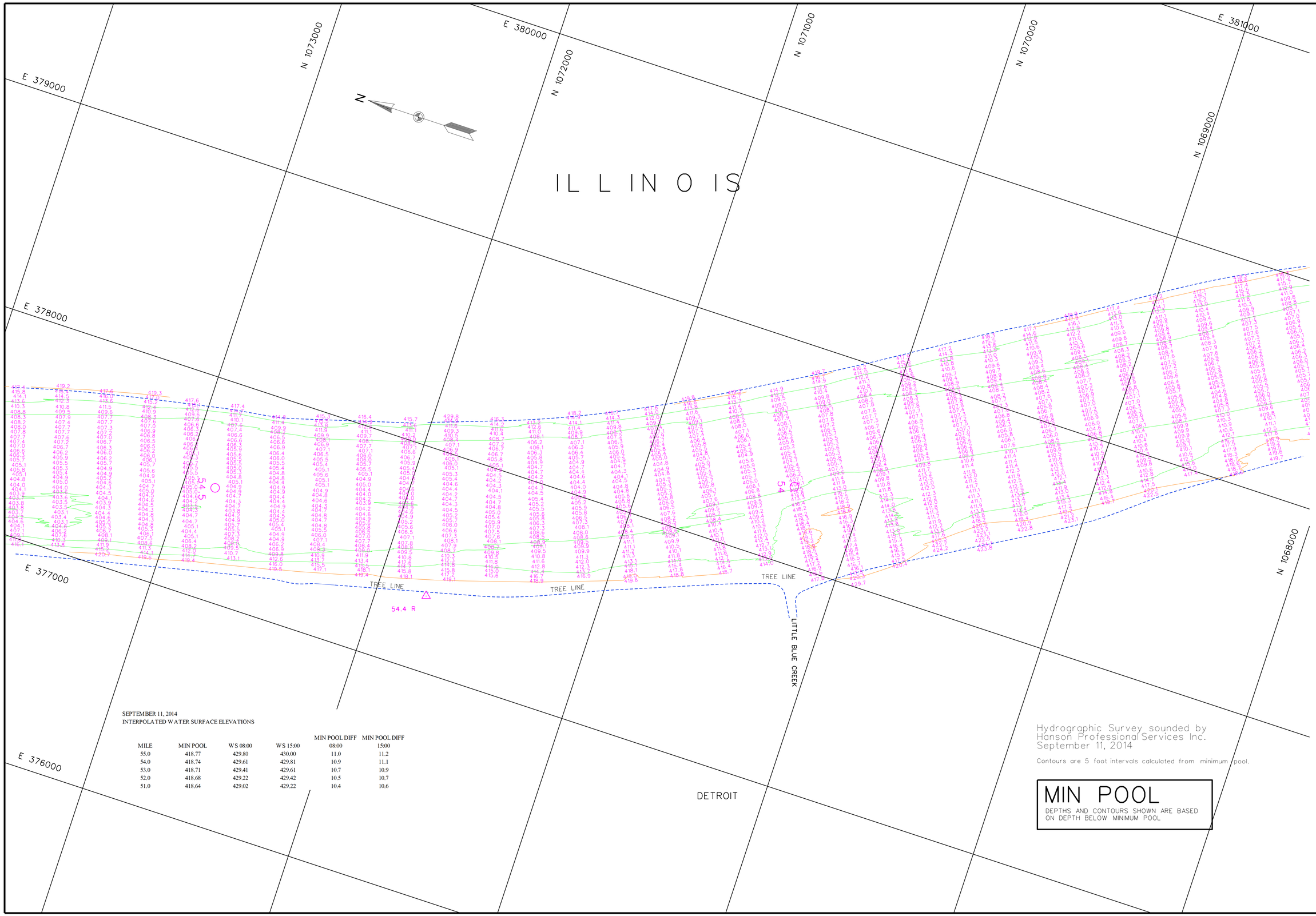
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

24



SEPTEMBER 11, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 15:00	MIN POOL DIFF 08:00	MIN POOL DIFF 15:00
55.0	418.77	429.80	430.00	11.0	11.2
54.0	418.74	429.61	429.81	10.9	11.1
53.0	418.71	429.41	429.61	10.7	10.9
52.0	418.68	429.22	429.42	10.5	10.7
51.0	418.64	429.02	429.22	10.4	10.6

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 11, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE	11 SEP 2014	430.0 (08:00)	427.5 (08:00)
		430.2 (15:00)	427.7 (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.)

Survey Date: Sept. 11, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

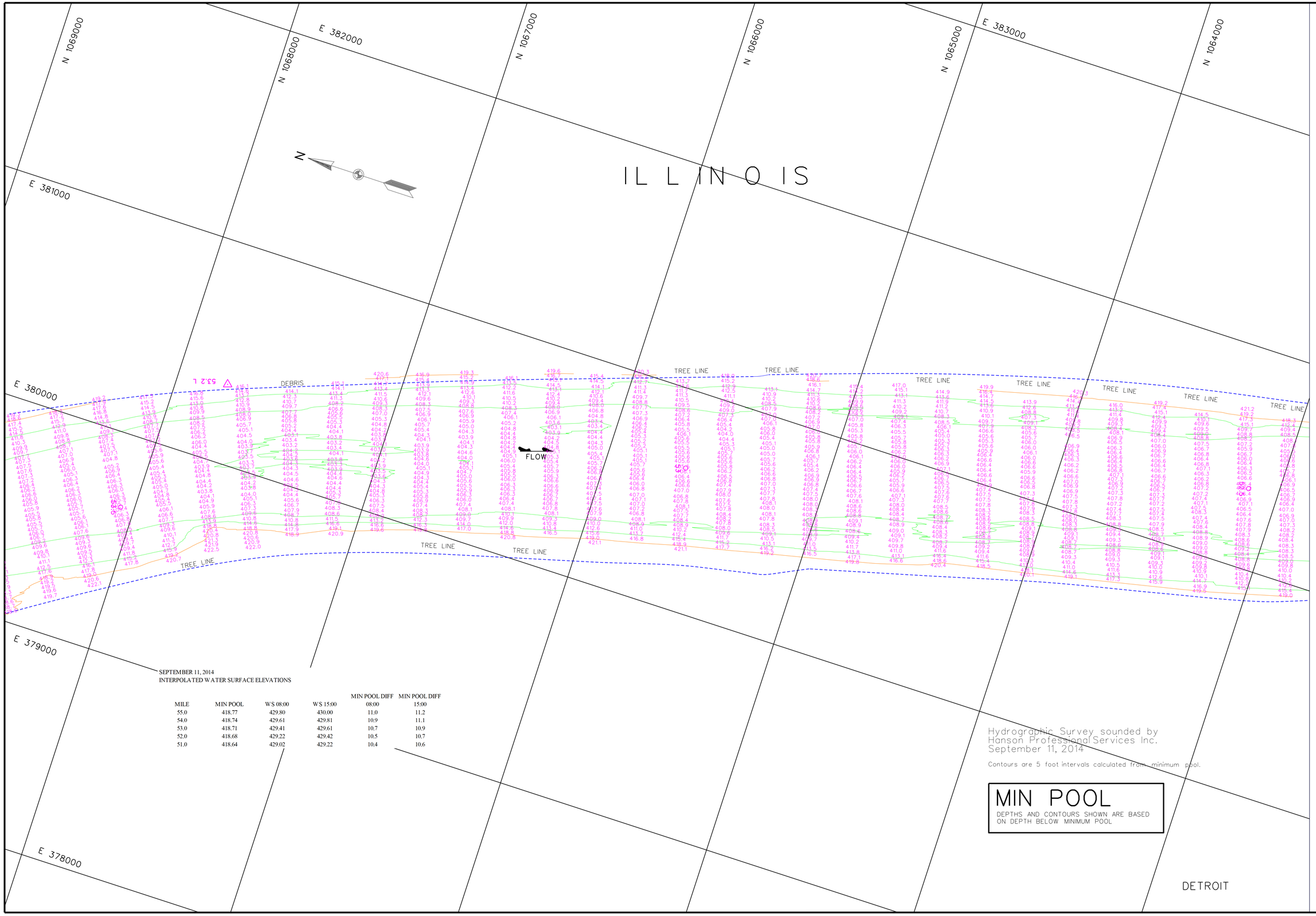
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

25



SEPTEMBER 11, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 15:00	MIN POOL DIFF 08:00	MIN POOL DIFF 15:00
55.0	418.77	429.80	430.00	11.0	11.2
54.0	418.74	429.61	429.81	10.9	11.1
53.0	418.71	429.41	429.61	10.7	10.9
52.0	418.68	429.22	429.42	10.5	10.7
51.0	418.64	429.02	429.22	10.4	10.6

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 11, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE	11 SEP 2014	430.0 (08:00) 430.2 (15:00)	427.5 (08:00) 427.7 (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.)

Survey Date: Sept. 11, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Checked by: JCL
Reviewed by:
APPROVED: Chief, Geospatial Branch

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

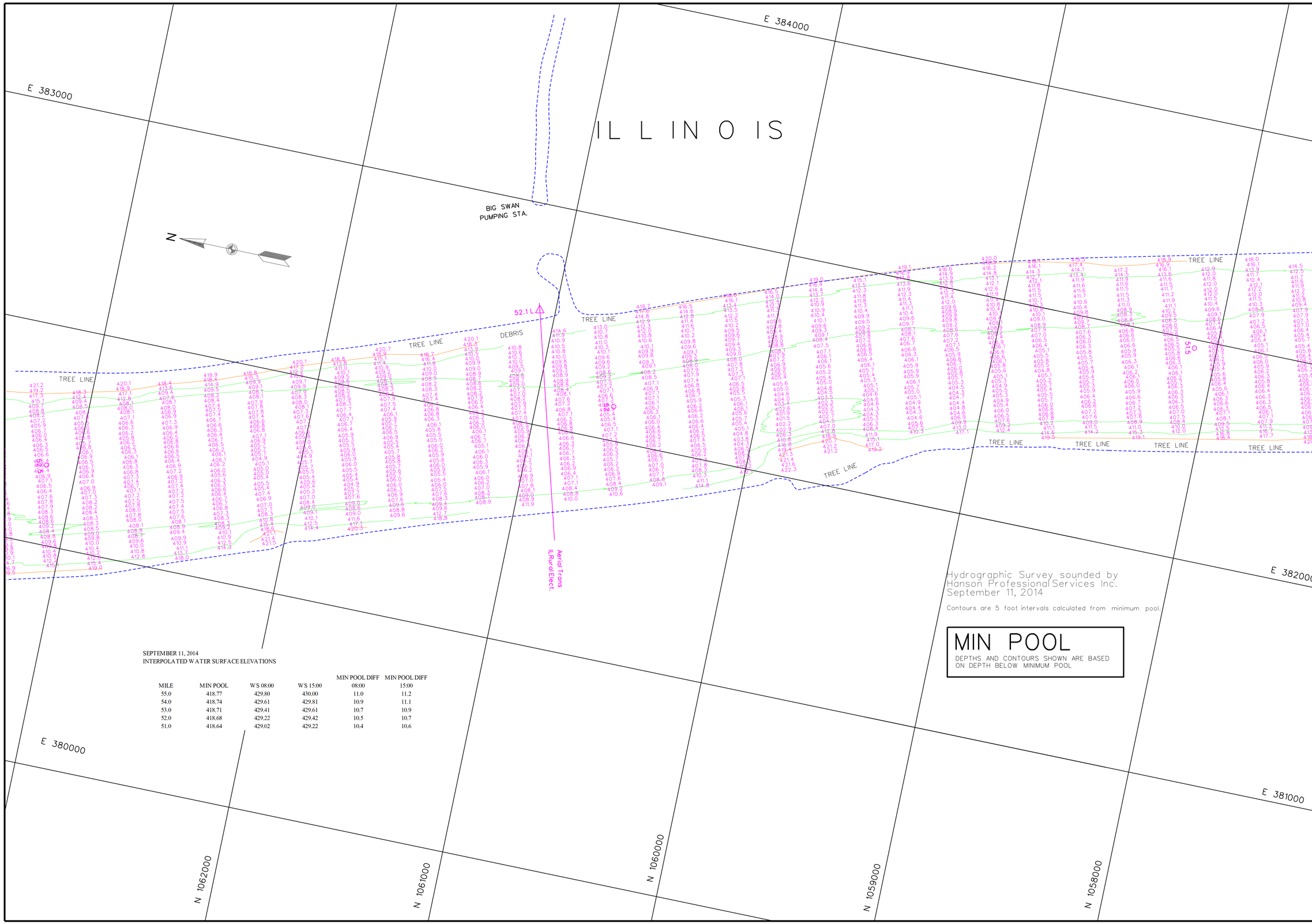
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 200 400 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A HYDROGRAPHIC SURVEY, AND IS PROVIDED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

26



Hydrographic Survey sounded by Hanson Professional Services Inc. September 11, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

SEPTEMBER 11, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 15:00	MIN POOL DIFF 08:00	MIN POOL DIFF 15:00
55.0	418.77	429.80	430.00	11.0	11.2
54.0	418.74	429.61	429.81	10.9	11.1
53.0	418.71	429.41	429.61	10.7	10.9
52.0	418.68	429.22	429.42	10.5	10.7
51.0	418.64	429.02	429.22	10.4	10.6

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE	11 SEP 2014	430.0 (08:00)	427.5 (08:00)
		430.2 (15:00)	427.7 (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.)

Survey Date: Sept. 11, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_00001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

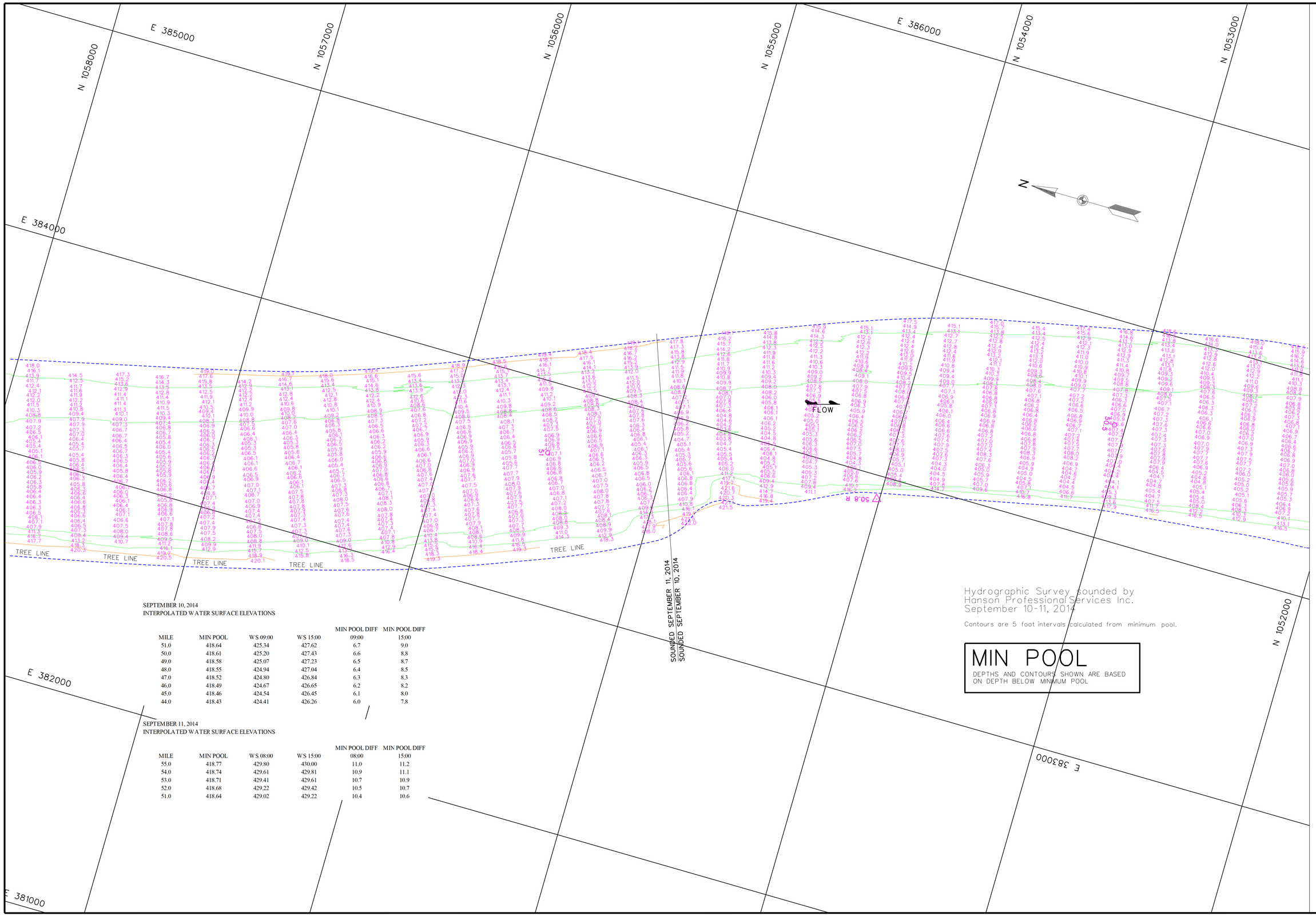
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
27



SEPTEMBER 10, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
51.0	418.64	425.34	427.62	6.7	9.0
50.0	418.61	425.20	427.43	6.6	8.8
49.0	418.58	425.07	427.23	6.5	8.7
48.0	418.55	424.94	427.04	6.4	8.5
47.0	418.52	424.80	426.84	6.3	8.3
46.0	418.49	424.67	426.65	6.2	8.2
45.0	418.46	424.54	426.45	6.1	8.0
44.0	418.43	424.41	426.26	6.0	7.8

SEPTEMBER 11, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 15:00	MIN POOL DIFF 08:00	MIN POOL DIFF 15:00
55.0	418.77	429.80	430.00	11.0	11.2
54.0	418.74	429.61	429.81	10.9	11.1
53.0	418.71	429.41	429.61	10.7	10.9
52.0	418.68	429.22	429.42	10.5	10.7
51.0	418.64	429.02	429.22	10.4	10.6

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 10-11, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE			
	10 SEP 2014	426.0 (09:00)	424.3 (09:00)
	11 SEP 2014	430.0 (08:00)	427.5 (08:00)

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.)

Survey Date: Sept. 10-11, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ck'd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 FEET

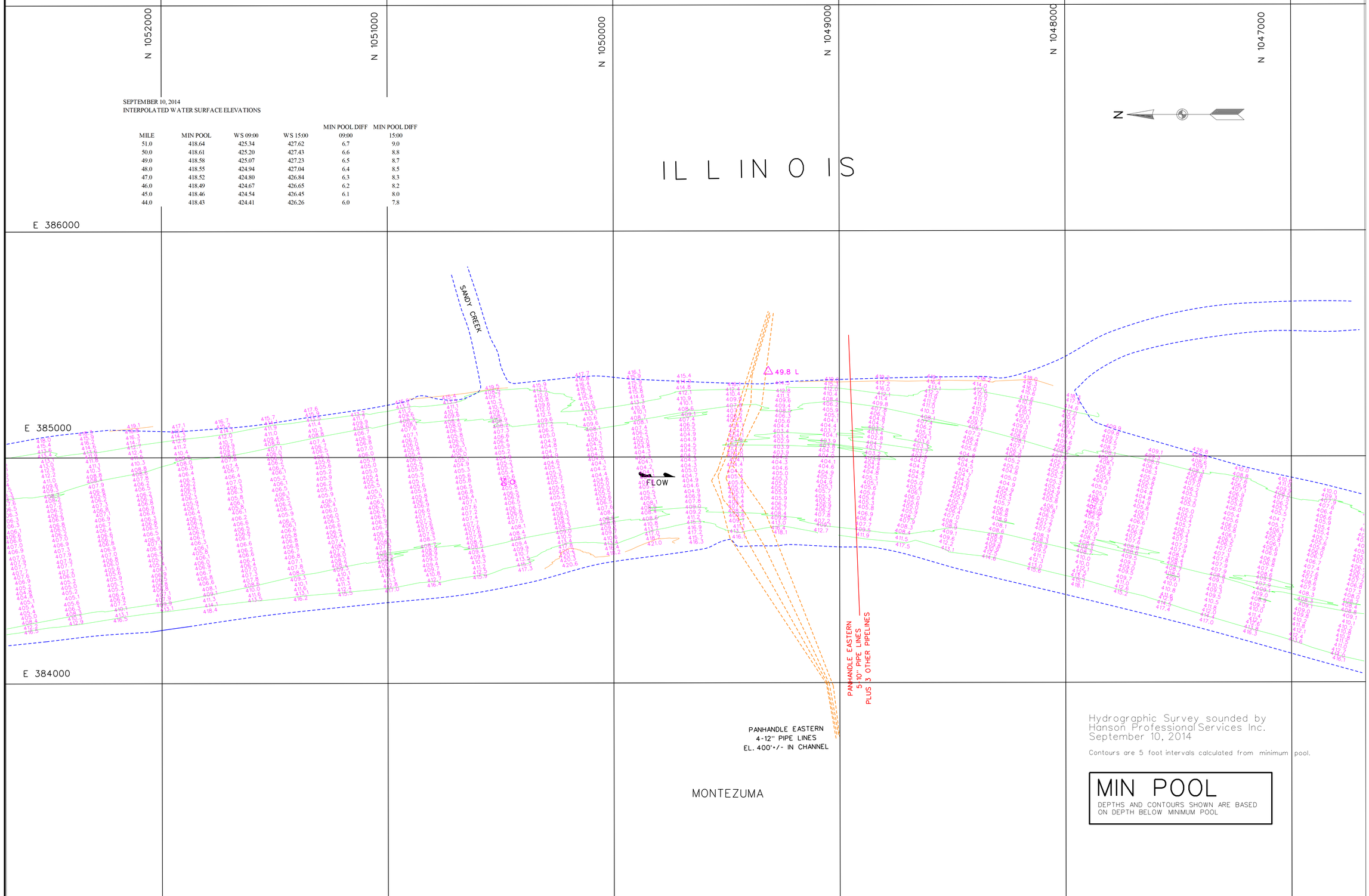
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

28

SEPTEMBER 10, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
51.0	418.64	425.34	427.62	6.7	9.0
50.0	418.61	425.20	427.43	6.6	8.8
49.0	418.58	425.07	427.23	6.5	8.7
48.0	418.55	424.94	427.04	6.4	8.5
47.0	418.52	424.80	426.84	6.3	8.3
46.0	418.49	424.67	426.65	6.2	8.2
45.0	418.46	424.54	426.45	6.1	8.0
44.0	418.43	424.41	426.26	6.0	7.8



Hydrographic Survey sounded by Hanson Professional Services Inc. September 10, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL
DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.	400.0	400.0
MILE	56.0	43.2
MIN POOL	418.8	418.4
DATE	10 SEP 2014	426.0 (09:00) 428.6 (15:00) 424.3 (09:00) 426.1 (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.)

Survey Date: Sept. 10, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_00011814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

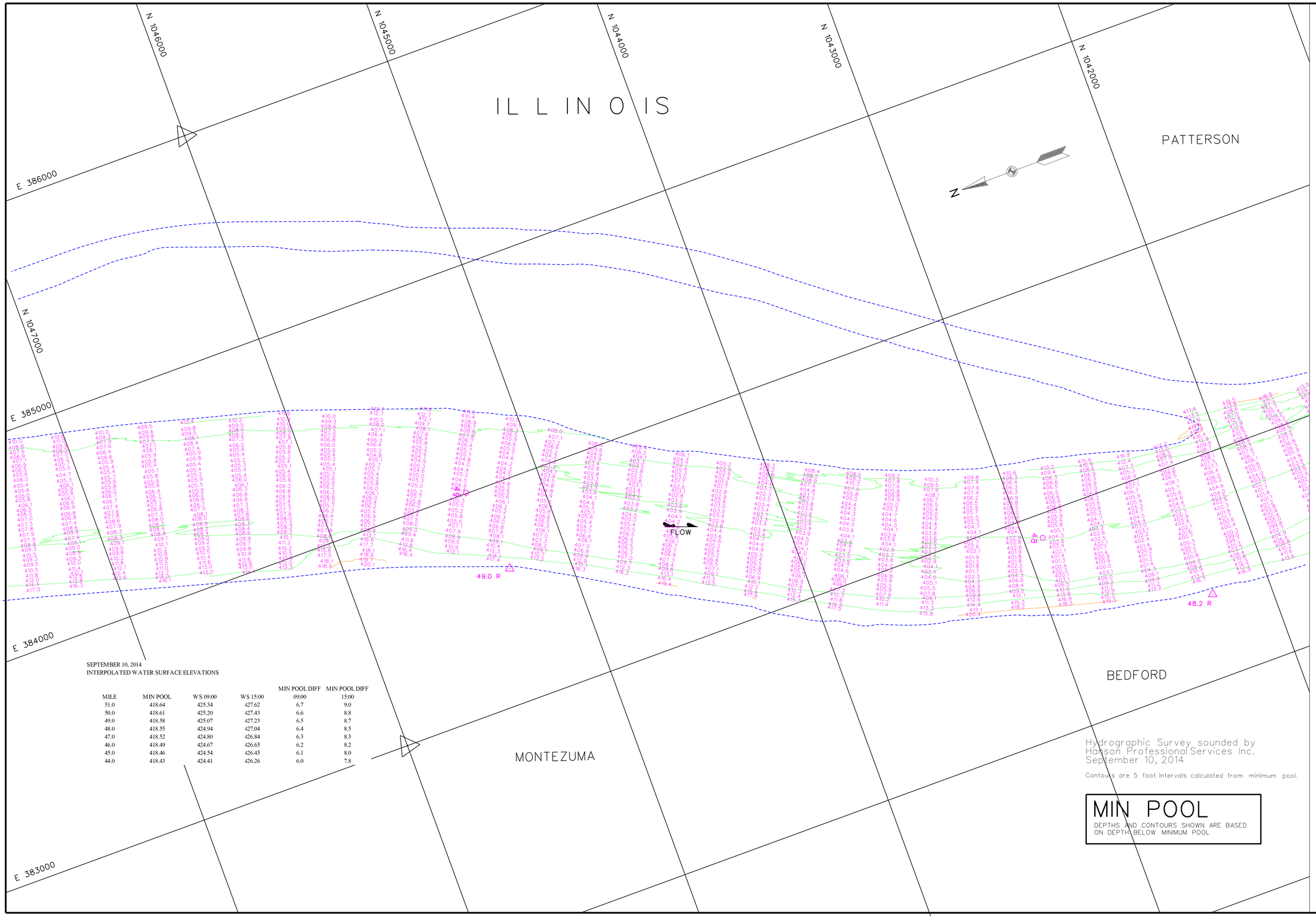
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
29



SEPTEMBER 10, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
51.0	418.64	425.34	427.62	6.7	9.0
50.0	418.61	425.20	427.43	6.6	8.8
49.0	418.58	425.07	427.23	6.5	8.7
48.0	418.55	424.94	427.04	6.4	8.5
47.0	418.52	424.80	426.84	6.3	8.3
46.0	418.49	424.67	426.65	6.2	8.2
45.0	418.46	424.54	426.45	6.1	8.0
44.0	418.43	424.41	426.26	6.0	7.8

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 10, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE	10 SEP 2014	426.0 (09:00)	424.3 (09:00)
		428.6 (15:00)	426.1 (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.)

Survey Date: Sept. 10, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_00011814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

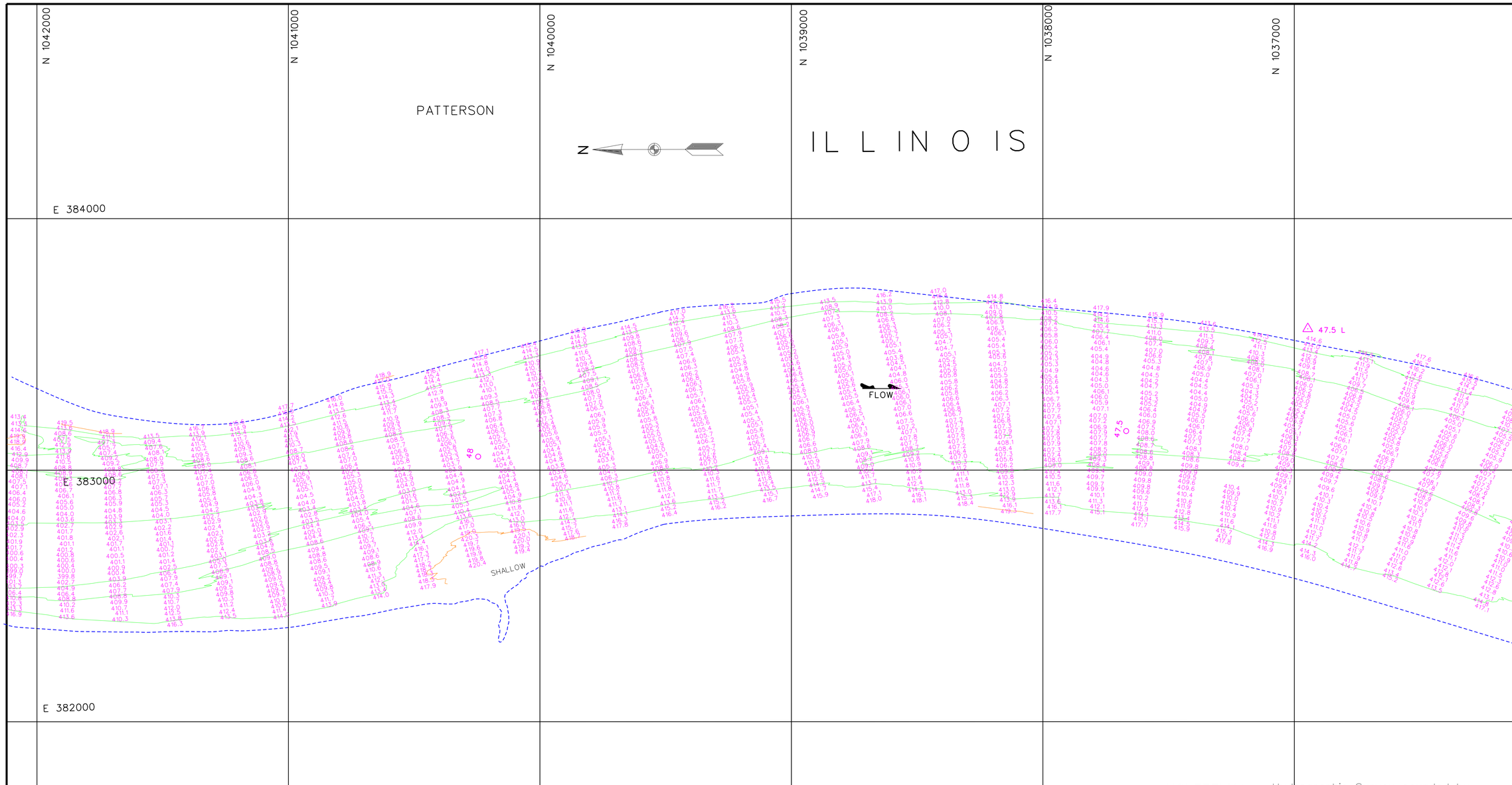
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
30



SEPTEMBER 10, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
51.0	418.64	425.34	427.62	6.7	9.0
50.0	418.61	425.20	427.43	6.6	8.8
49.0	418.58	425.07	427.23	6.5	8.7
48.0	418.55	424.94	427.04	6.4	8.5
47.0	418.52	424.80	426.84	6.3	8.3
46.0	418.49	424.67	426.65	6.2	8.2
45.0	418.46	424.54	426.45	6.1	8.0
44.0	418.43	424.41	426.26	6.0	7.8

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 10, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE	10 SEP 2014	426.0 (09:00) 428.6 (15:00)	424.3 (09:00) 426.1 (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.)

Survey Date: Sept. 10, 2014

Surveyed by: HANSON
Drawn by: JLK
Checked by: JCL
Reviewed by:
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
APPROVED:
Chief, Geospatial Branch
File name: 080_0001894.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

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

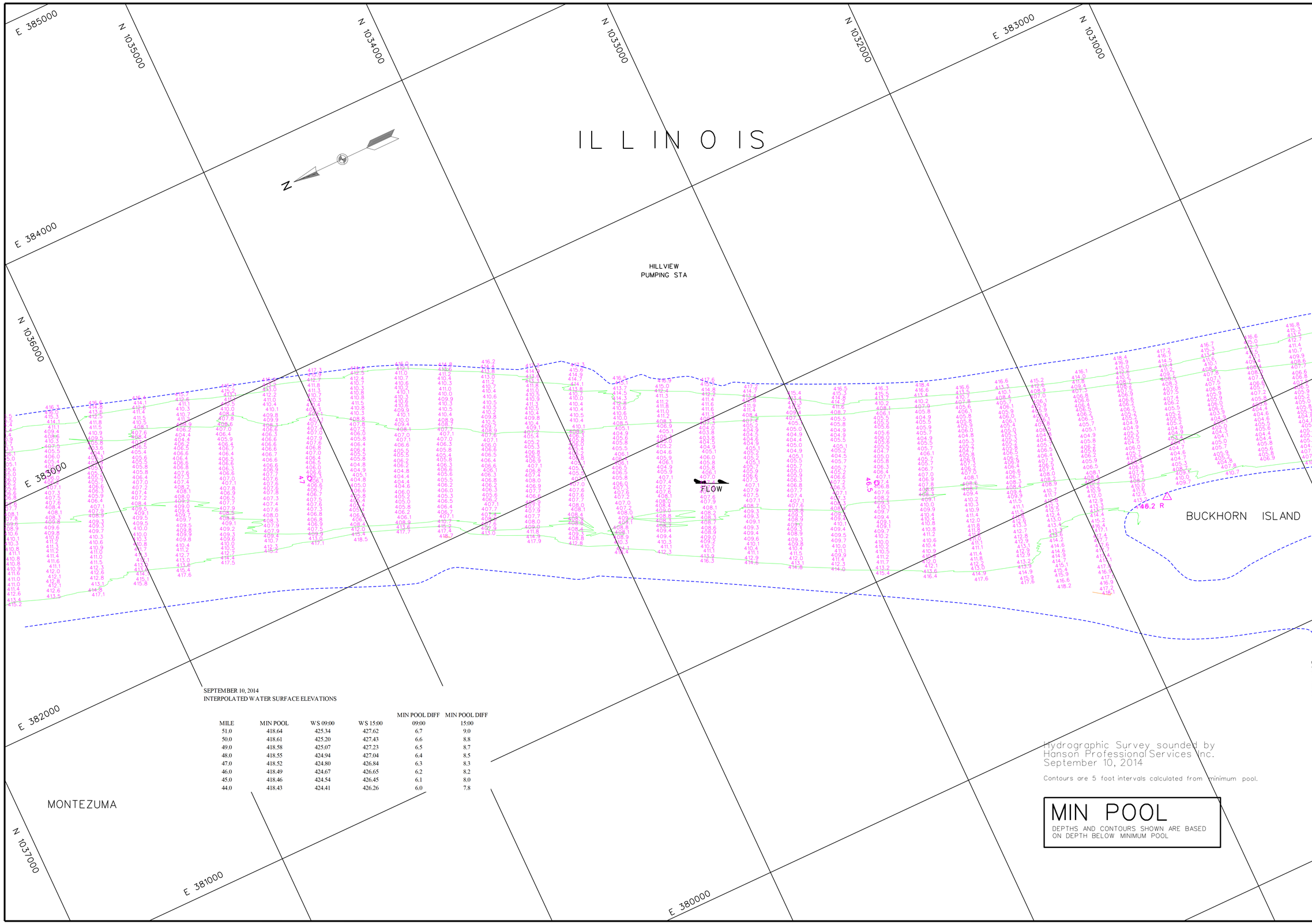
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 60 200
400 FEET 200 0 200

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SITE SPECIFIC SURVEYS AND ANALYSES AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

31



SEPTEMBER 10, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
51.0	418.64	425.34	427.62	6.7	9.0
50.0	418.61	425.20	427.43	6.6	8.8
49.0	418.58	425.07	427.23	6.5	8.7
48.0	418.55	424.94	427.04	6.4	8.5
47.0	418.52	424.80	426.84	6.3	8.3
46.0	418.49	424.67	426.65	6.2	8.2
45.0	418.46	424.54	426.45	6.1	8.0
44.0	418.43	424.41	426.26	6.0	7.8

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 10, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE	10 SEP 2014	426.0 (09:00)	424.3 (09:00)
		428.6 (15:00)	426.1 (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.)

Survey Date: Sept. 10, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

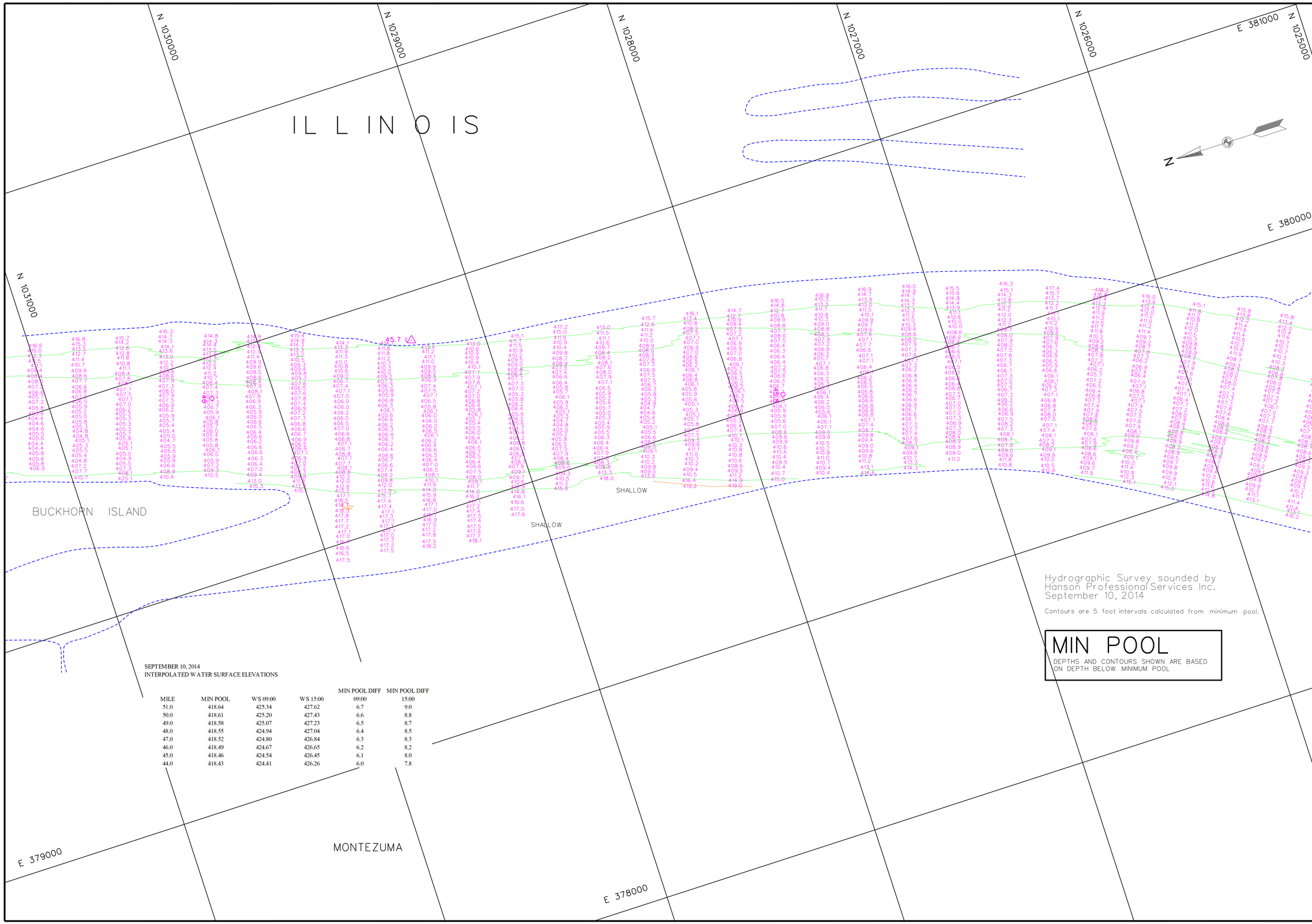
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

32



Hydrographic Survey sounded by Hanson Professional Services Inc. September 10, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

SEPTEMBER 10, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
51.0	418.64	425.34	427.62	6.7	9.0
50.0	418.61	425.20	427.43	6.6	8.8
49.0	418.58	425.07	427.23	6.5	8.7
48.0	418.55	424.94	427.04	6.4	8.5
47.0	418.52	424.80	426.84	6.3	8.3
46.0	418.49	424.67	426.65	6.2	8.2
45.0	418.46	424.54	426.45	6.1	8.0
44.0	418.43	424.41	426.26	6.0	7.8

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE	10 SEP 2014	426.0 (09:00)	424.3 (09:00)
		428.6 (15:00)	426.1 (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.)

Survey Date: Sept. 10, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

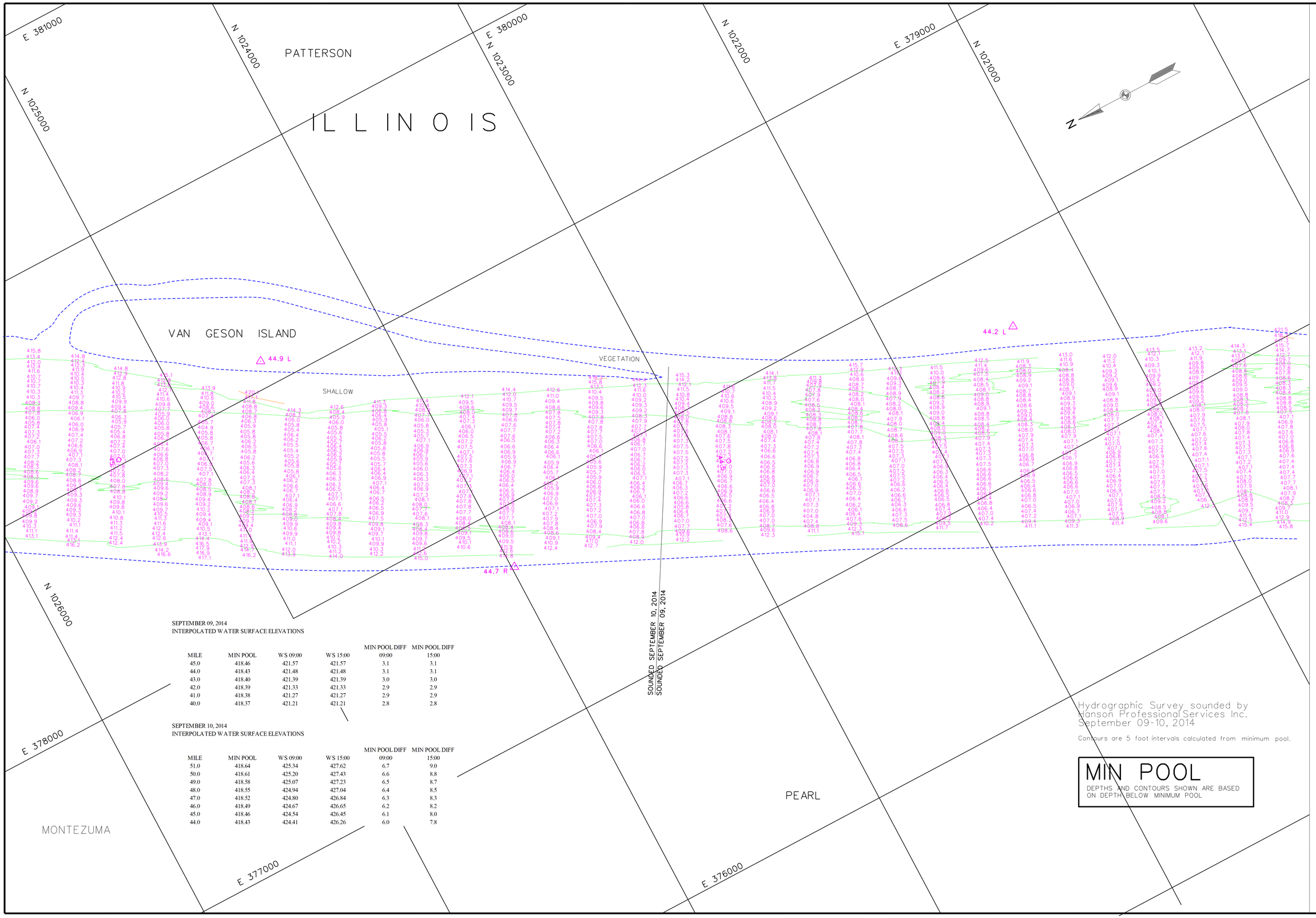
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
33



SEPTEMBER 09, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
45.0	418.46	421.57	421.57	3.1	3.1
44.0	418.43	421.48	421.48	3.1	3.1
43.0	418.40	421.39	421.39	3.0	3.0
42.0	418.39	421.33	421.33	2.9	2.9
41.0	418.38	421.27	421.27	2.9	2.9
40.0	418.37	421.21	421.21	2.8	2.8

SEPTEMBER 10, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
51.0	418.64	425.34	427.62	6.7	9.0
50.0	418.61	425.20	427.43	6.6	8.8
49.0	418.58	425.07	427.23	6.5	8.7
48.0	418.55	424.94	427.04	6.4	8.5
47.0	418.52	424.80	426.84	6.3	8.3
46.0	418.49	424.67	426.65	6.2	8.2
45.0	418.46	424.54	426.45	6.1	8.0
44.0	418.43	424.41	426.26	6.0	7.8

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 09-10, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE			
	09 SEP 2014	422.6 (09:00)	421.4 (09:00)
	10 SEP 2014	426.0 (09:00)	424.3 (09:00)

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.)

Survey Date: Sept. 09-10, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

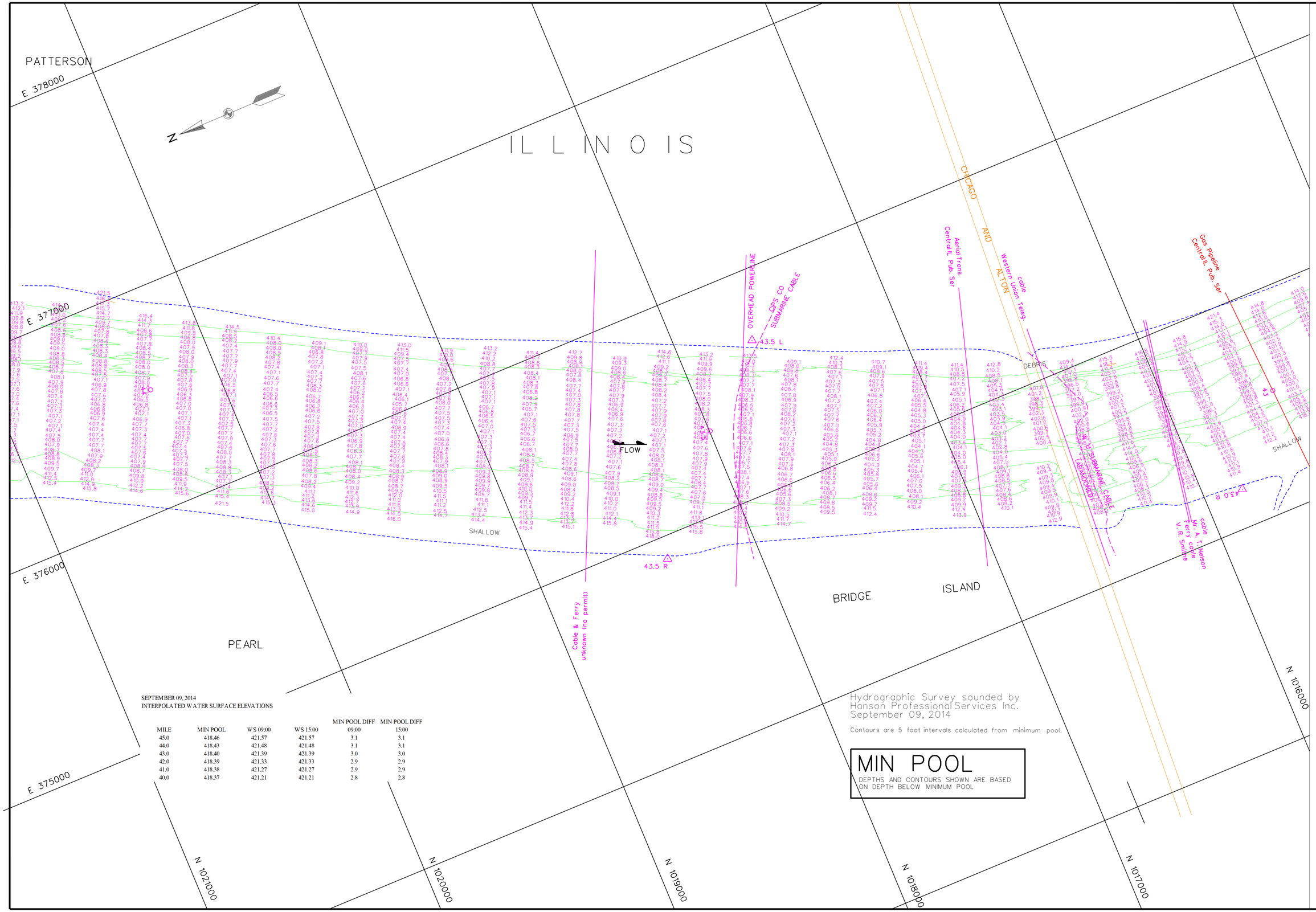
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

34



SEPTEMBER 09, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
45.0	418.46	421.57	421.57	3.1	3.1
44.0	418.43	421.48	421.48	3.1	3.1
43.0	418.40	421.39	421.39	3.0	3.0
42.0	418.39	421.33	421.33	2.9	2.9
41.0	418.38	421.27	421.27	2.9	2.9
40.0	418.37	421.21	421.21	2.8	2.8

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 09, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	FLORENCE	PEARL
ZERO N.G.V.D.		400.0	400.0
MILE		56.0	43.2
MIN POOL		418.8	418.4
DATE	09 SEP 2014	422.6 (09:00)	421.4 (09:00)
		422.6 (15:00)	421.4 (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.)

Survey Date: Sept. 09, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

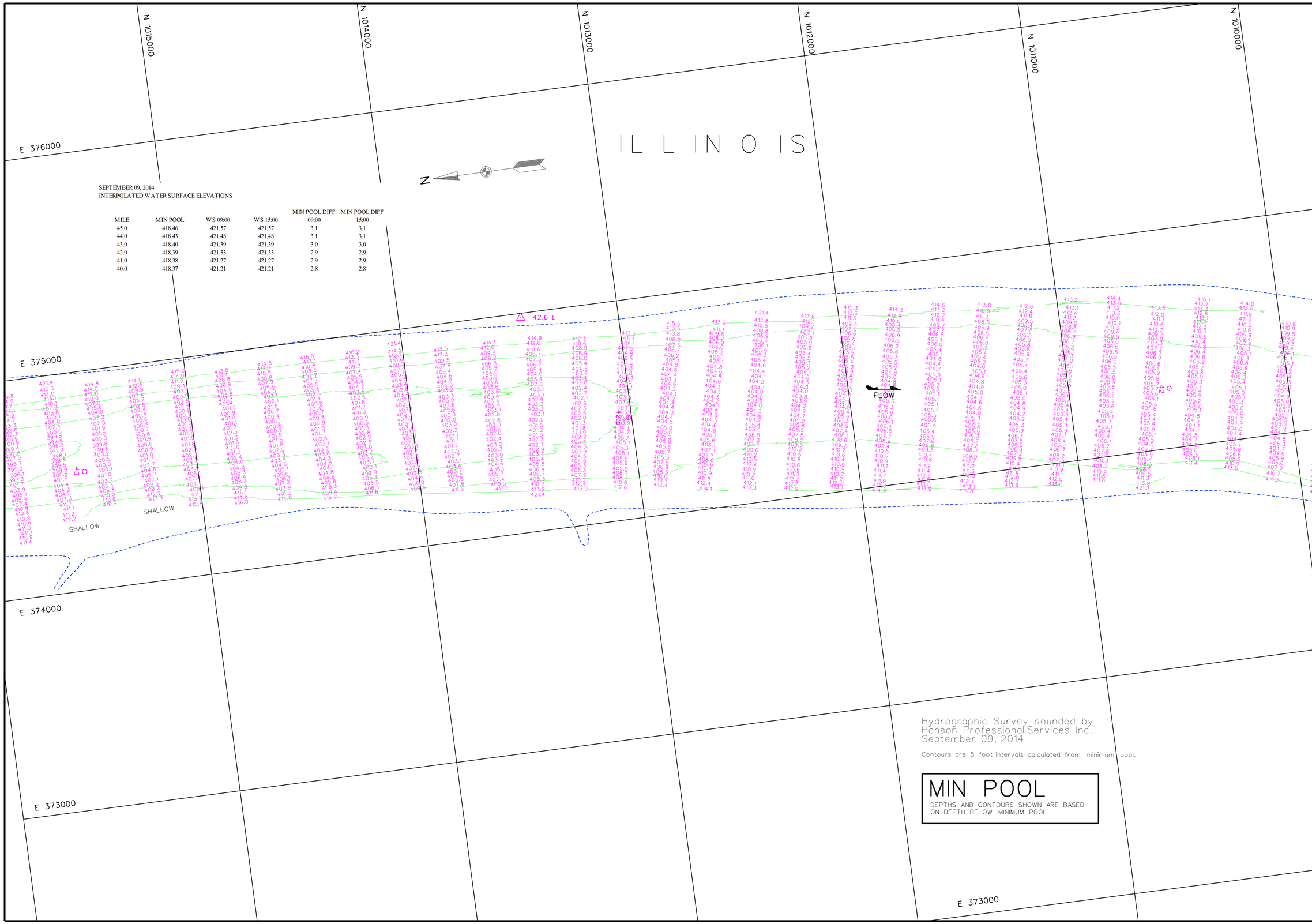
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
35



SEPTEMBER 09, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
45.0	418.46	421.57	421.57	3.1	3.1
44.0	418.43	421.48	421.48	3.1	3.1
43.0	418.40	421.39	421.39	3.0	3.0
42.0	418.39	421.33	421.33	2.9	2.9
41.0	418.38	421.27	421.27	2.9	2.9
40.0	418.37	421.21	421.21	2.8	2.8

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 09, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	09 SEP 2014	421.4 (09:00)	420.1 (09:00)
		421.4 (15:00)	420.1 (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.)

Survey Date: Sept. 09, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

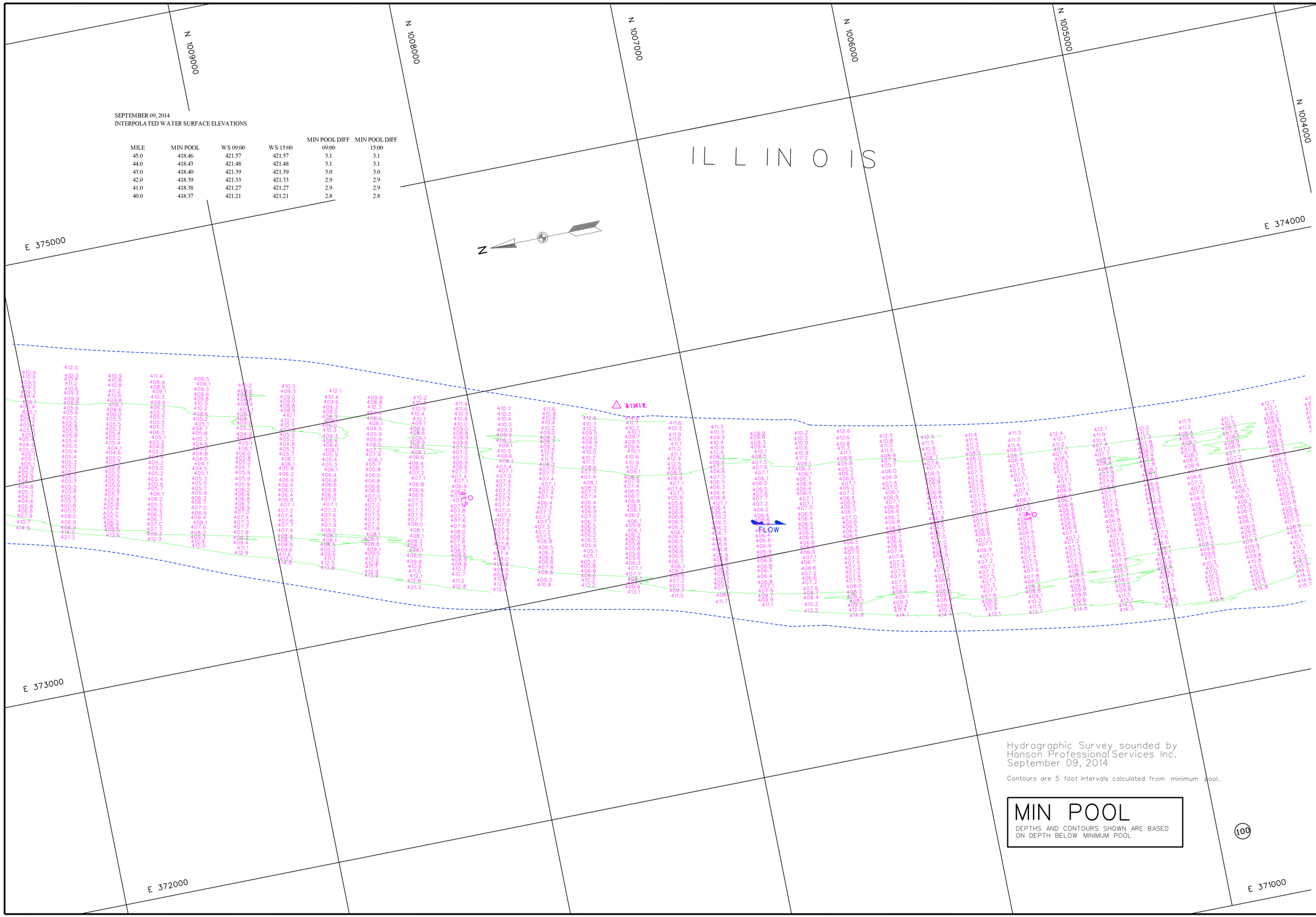
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

36



SEPTEMBER 09, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
45.0	418.46	421.57	421.57	3.1	3.1
44.0	418.43	421.48	421.48	3.1	3.1
43.0	418.40	421.39	421.39	3.0	3.0
42.0	418.39	421.33	421.33	2.9	2.9
41.0	418.38	421.27	421.27	2.9	2.9
40.0	418.37	421.21	421.21	2.8	2.8

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 09, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	09 SEP 2014	421.4 (09:00)	420.1 (09:00)
		421.4 (15:00)	420.1 (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.)

Survey Date: Sept. 09, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

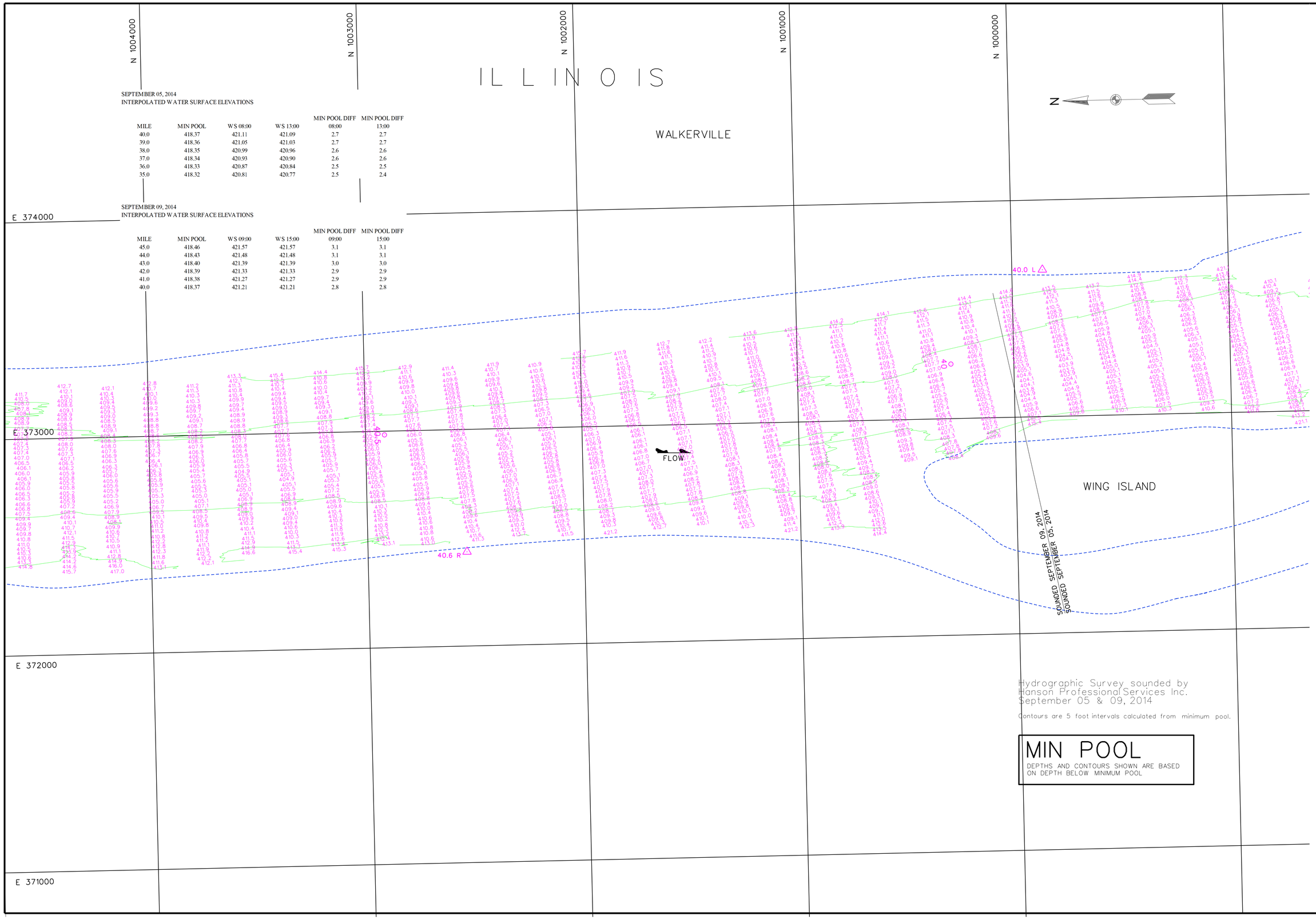
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

37



SEPTEMBER 05, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 13:00	MIN POOL DIFF 08:00	MIN POOL DIFF 13:00
40.0	418.37	421.11	421.09	2.7	2.7
39.0	418.36	421.05	421.03	2.7	2.7
38.0	418.35	420.99	420.96	2.6	2.6
37.0	418.34	420.93	420.90	2.6	2.6
36.0	418.33	420.87	420.84	2.5	2.5
35.0	418.32	420.81	420.77	2.5	2.4

SEPTEMBER 09, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 15:00	MIN POOL DIFF 09:00	MIN POOL DIFF 15:00
45.0	418.46	421.57	421.57	3.1	3.1
44.0	418.43	421.48	421.48	3.1	3.1
43.0	418.40	421.39	421.39	3.0	3.0
42.0	418.39	421.33	421.33	2.9	2.9
41.0	418.38	421.27	421.27	2.9	2.9
40.0	418.37	421.21	421.21	2.8	2.8

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 05 & 09, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	05 SEP 2014	421.3 (08:00)	420.0 (08:00)
	09 SEP 2014	421.4 (09:00)	420.1 (09:00)

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.)

Survey Date: Sept. 05, 2014
Sept. 09, 2014

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

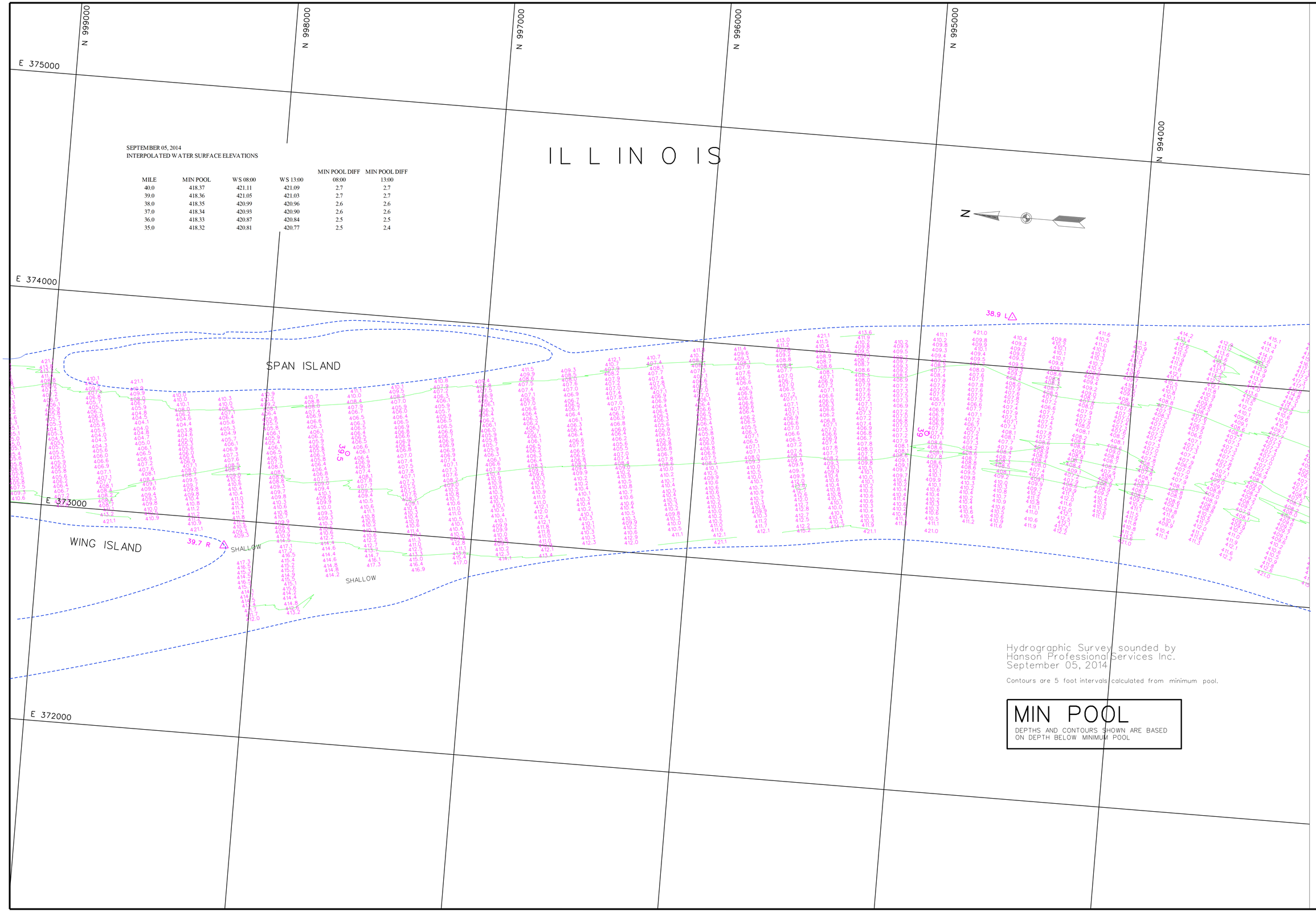
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
38



SEPTEMBER 05, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 13:00	MIN POOL DIFF 08:00	MIN POOL DIFF 13:00
40.0	418.37	421.11	421.09	2.7	2.7
39.0	418.36	421.05	421.03	2.7	2.7
38.0	418.35	420.99	420.96	2.6	2.6
37.0	418.34	420.93	420.90	2.6	2.6
36.0	418.33	420.87	420.84	2.5	2.5
35.0	418.32	420.81	420.77	2.5	2.4

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 05, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.	400.0	400.0
MILE	43.2	21.5
MIN POOL	418.4	418.2
DATE	05 SEP 2014	421.3 (08:00) 421.3 (13:00)
		420.0 (08:00) 419.9 (13:00)

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.)

Survey Date: Sept. 05, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

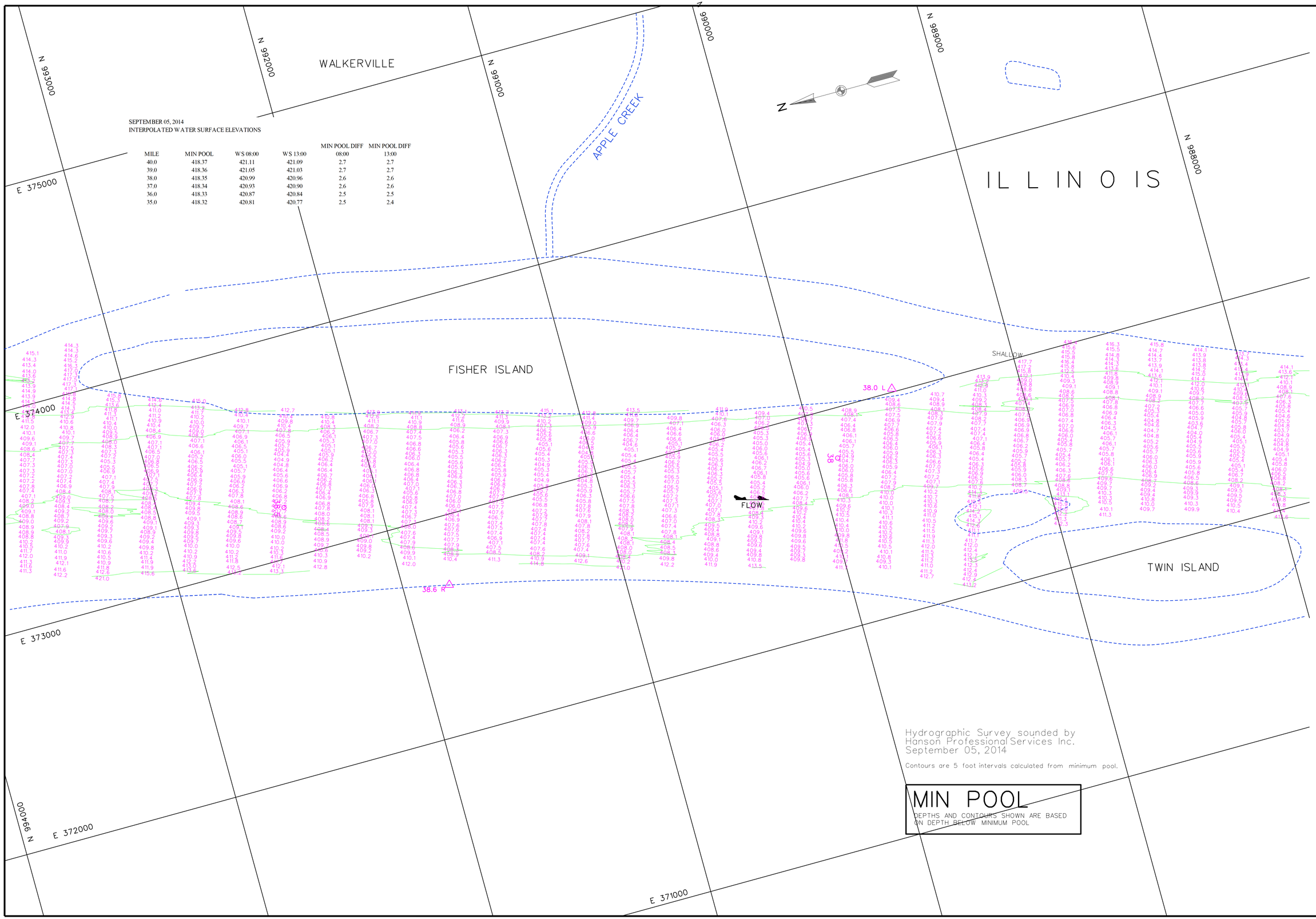
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
39



SEPTEMBER 05, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 13:00	MIN POOL DIFF 08:00	MIN POOL DIFF 13:00
40.0	418.37	421.11	421.09	2.7	2.7
39.0	418.36	421.05	421.03	2.7	2.7
38.0	418.35	420.99	420.96	2.6	2.6
37.0	418.34	420.93	420.90	2.6	2.6
36.0	418.33	420.87	420.84	2.5	2.5
35.0	418.32	420.81	420.77	2.5	2.4

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 05, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	05 SEP 2014	421.3 (08:00)	420.0 (08:00)
		421.3 (13:00)	419.9 (13:00)

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.)

Survey Date: Sept. 05, 2014

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

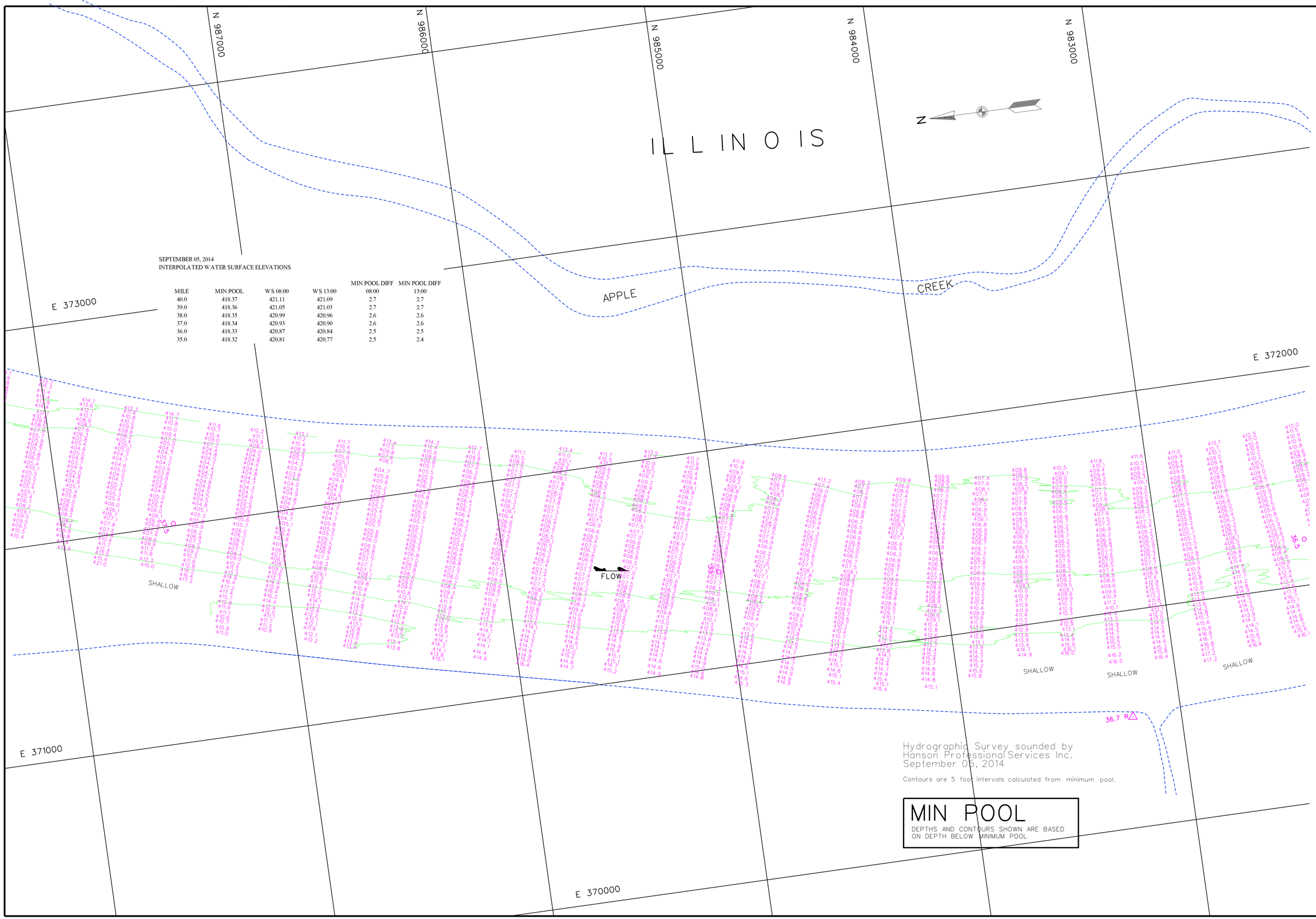
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
40



SEPTEMBER 05, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 13:00	MIN POOL DIFF 08:00	MIN POOL DIFF 13:00
40.0	418.37	421.11	421.09	2.7	2.7
39.0	418.36	421.05	421.03	2.7	2.7
38.0	418.35	420.99	420.96	2.6	2.6
37.0	418.34	420.93	420.90	2.6	2.6
36.0	418.33	420.87	420.84	2.5	2.5
35.0	418.32	420.81	420.77	2.5	2.4

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 05, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.	400.0	400.0
MILE	43.2	21.5
MIN POOL	418.4	418.2
DATE	05 SEP 2014	421.3 (08:00) 421.3 (13:00)	420.0 (08:00) 419.9 (13:00)

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.)

Survey Date: Sept. 05, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

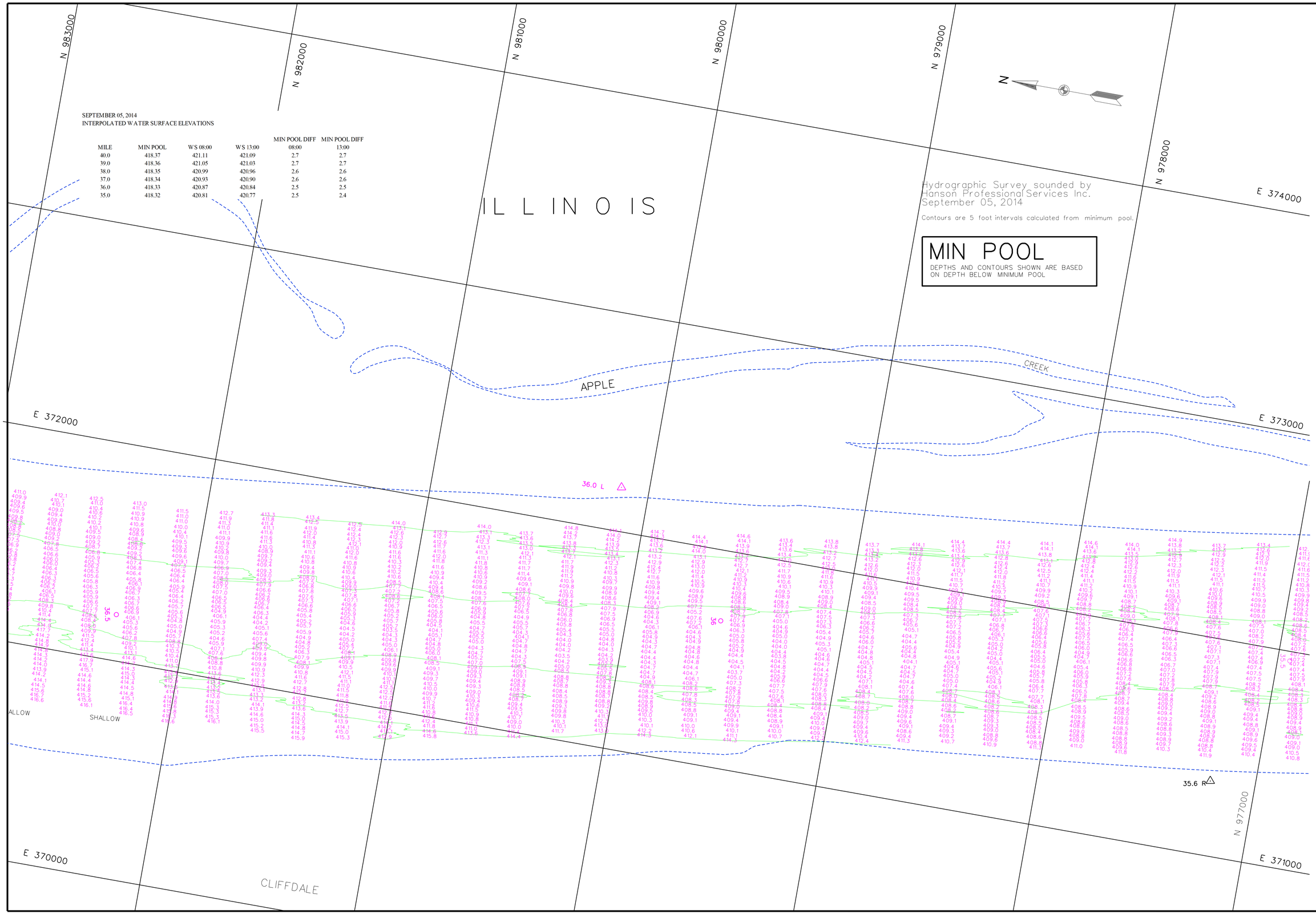
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

41



SEPTEMBER 05, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 13:00	MIN POOL DIFF 08:00	MIN POOL DIFF 13:00
40.0	418.37	421.11	421.09	2.7	2.7
39.0	418.36	421.05	421.03	2.7	2.7
38.0	418.35	420.99	420.96	2.6	2.6
37.0	418.34	420.93	420.90	2.6	2.6
36.0	418.33	420.87	420.84	2.5	2.5
35.0	418.32	420.81	420.77	2.5	2.4

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	05 SEP 2014	421.3 (08:00)	420.0 (08:00)
		421.3 (13:00)	419.9 (13:00)

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.)

Survey Date: Sept. 05, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_00011814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

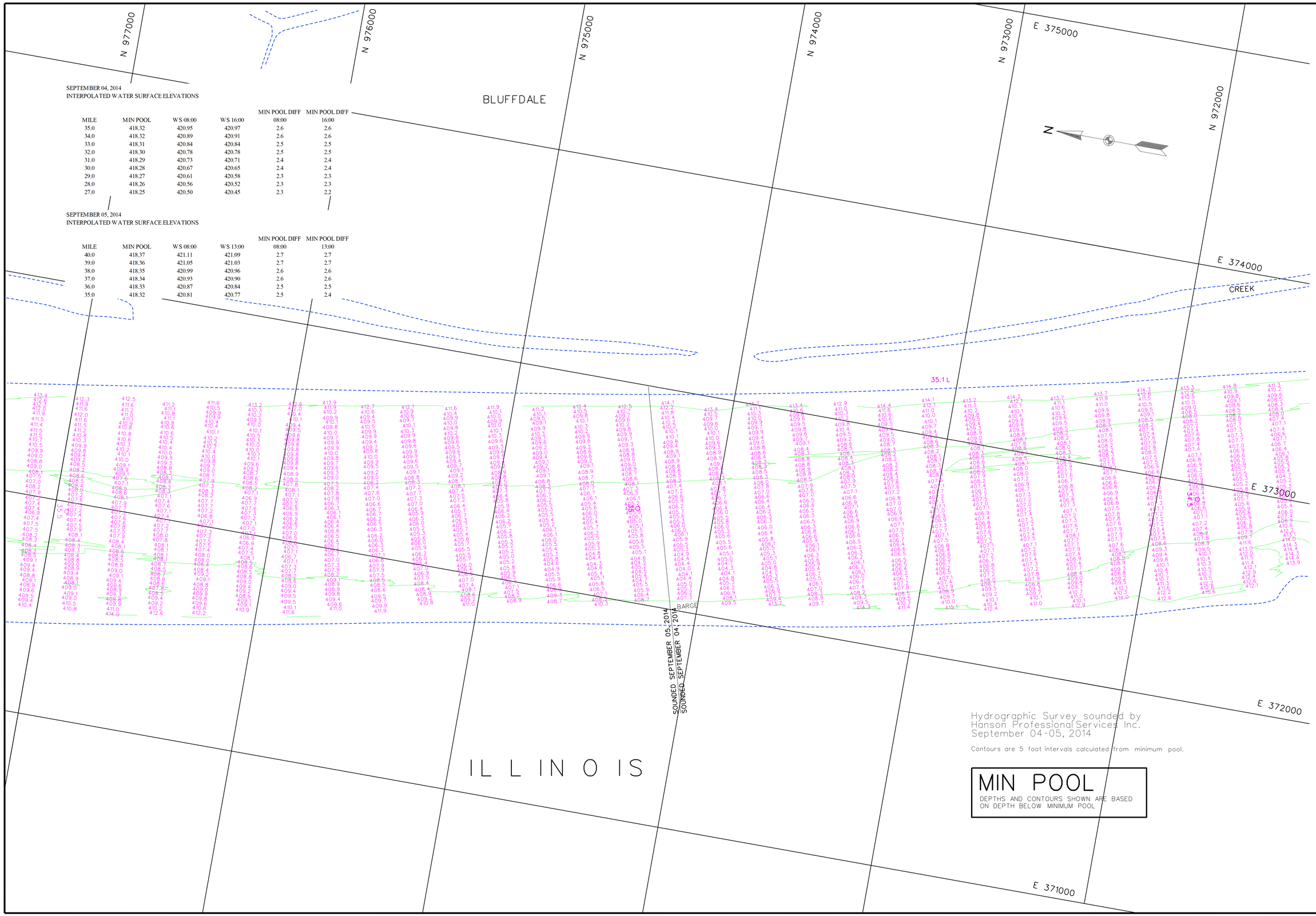
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

42



SEPTEMBER 04, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:00	MIN POOL DIFF 08:00	MIN POOL DIFF 16:00
35.0	418.32	420.95	420.97	2.6	2.6
34.0	418.32	420.89	420.91	2.6	2.6
33.0	418.31	420.84	420.84	2.5	2.5
32.0	418.30	420.78	420.78	2.5	2.5
31.0	418.29	420.73	420.71	2.4	2.4
30.0	418.28	420.67	420.65	2.4	2.4
29.0	418.27	420.61	420.58	2.3	2.3
28.0	418.26	420.56	420.52	2.3	2.3
27.0	418.25	420.50	420.45	2.3	2.2

SEPTEMBER 05, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 13:00	MIN POOL DIFF 08:00	MIN POOL DIFF 13:00
40.0	418.37	421.11	421.09	2.7	2.7
39.0	418.36	421.05	421.03	2.7	2.7
38.0	418.35	420.99	420.96	2.6	2.6
37.0	418.34	420.93	420.90	2.6	2.6
36.0	418.33	420.87	420.84	2.5	2.5
35.0	418.32	420.81	420.77	2.5	2.4

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 04-05, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	04 SEP 2014	421.4 (08:00)	420.2 (08:00)
	05 SEP 2014	421.3 (08:00)	420.0 (08:00)

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.)

Survey Date: Sept. 04-05, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

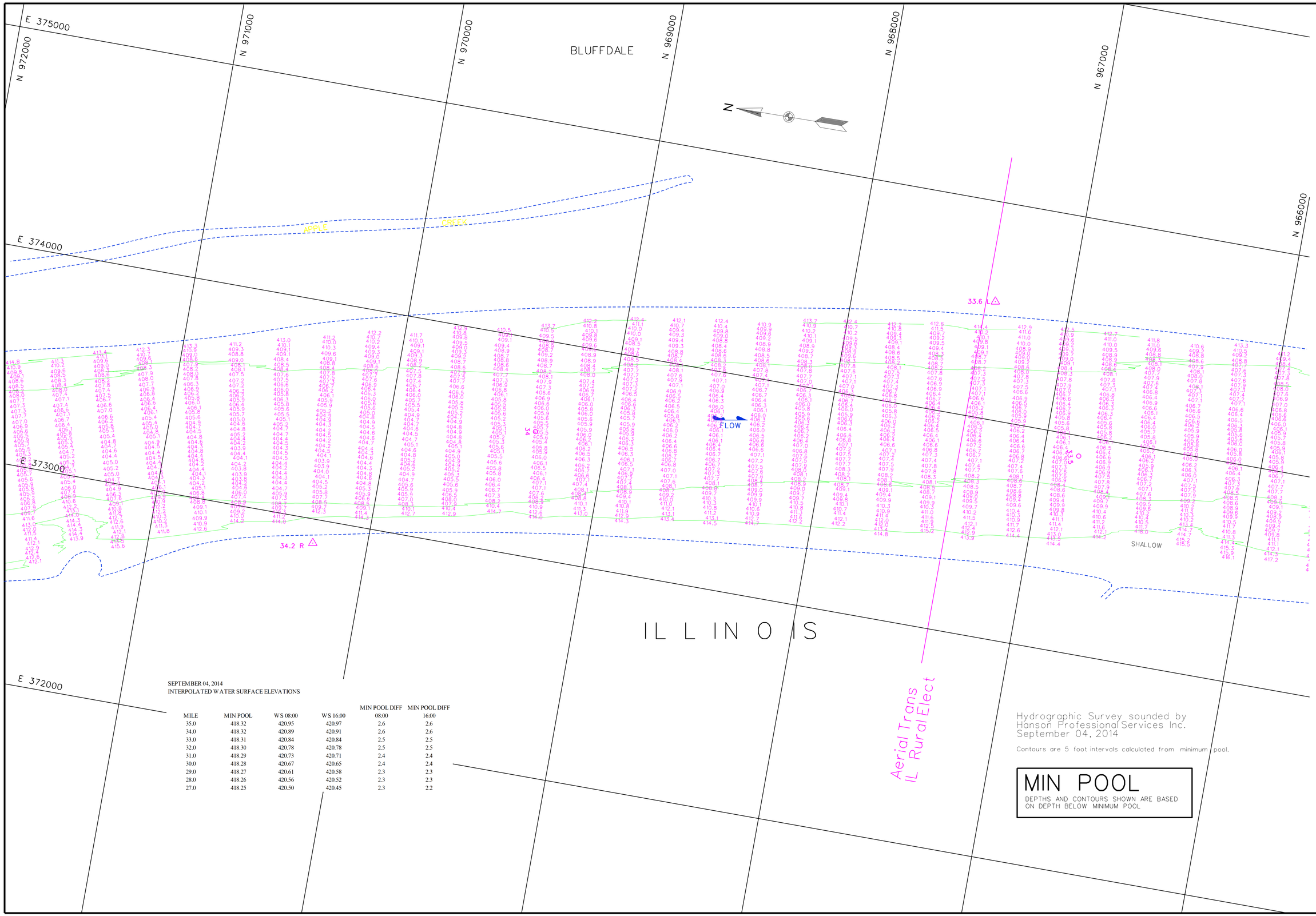
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
43



SEPTEMBER 04, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:00	MIN POOL DIFF 08:00	MIN POOL DIFF 16:00
35.0	418.32	420.95	420.97	2.6	2.6
34.0	418.32	420.89	420.91	2.6	2.6
33.0	418.31	420.84	420.84	2.5	2.5
32.0	418.30	420.78	420.78	2.5	2.5
31.0	418.29	420.73	420.71	2.4	2.4
30.0	418.28	420.67	420.65	2.4	2.4
29.0	418.27	420.61	420.58	2.3	2.3
28.0	418.26	420.56	420.52	2.3	2.3
27.0	418.25	420.50	420.45	2.3	2.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 04, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	04 SEP 2014	421.4 (08:00) 421.5 (16:00)	420.2 (08:00) 420.1(16:00)

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.)

Survey Date: Sept. 04, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

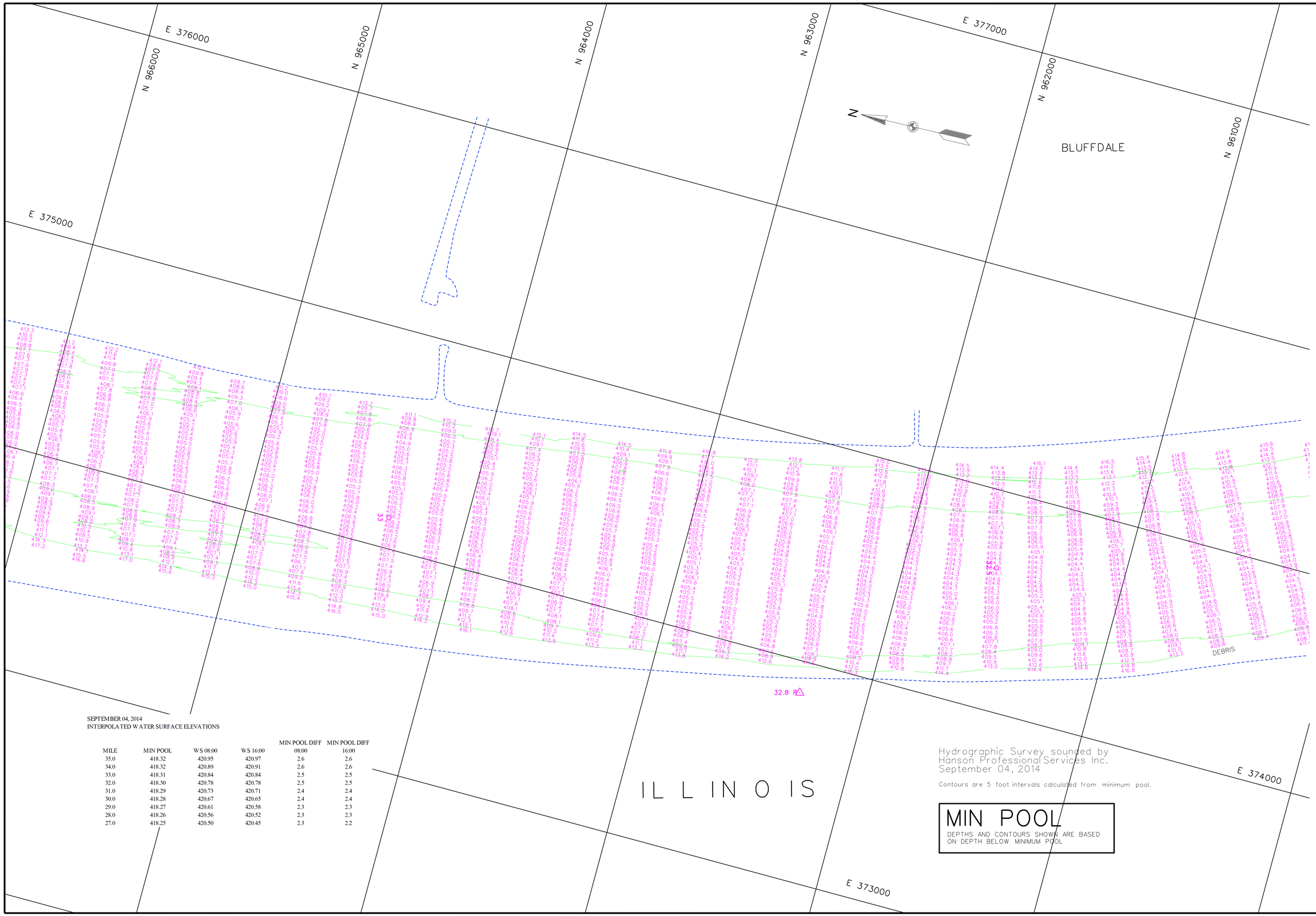
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 60
400 FEET 200 0 200

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE AT THE TIME INDICATED AND MAY NOT BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

44



SEPTEMBER 04, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:00	MIN POOL DIFF 08:00	MIN POOL DIFF 16:00
35.0	418.32	420.95	420.97	2.6	2.6
34.0	418.32	420.89	420.91	2.6	2.6
33.0	418.31	420.84	420.84	2.5	2.5
32.0	418.30	420.78	420.78	2.5	2.5
31.0	418.29	420.73	420.71	2.4	2.4
30.0	418.28	420.67	420.65	2.4	2.4
29.0	418.27	420.61	420.58	2.3	2.3
28.0	418.26	420.56	420.52	2.3	2.3
27.0	418.25	420.50	420.45	2.3	2.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 04, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	04 SEP 2014	421.4 (08:00)	420.2 (08:00)
		421.5 (16:00)	420.1 (16:00)

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.)

Survey Date: Sept. 04, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

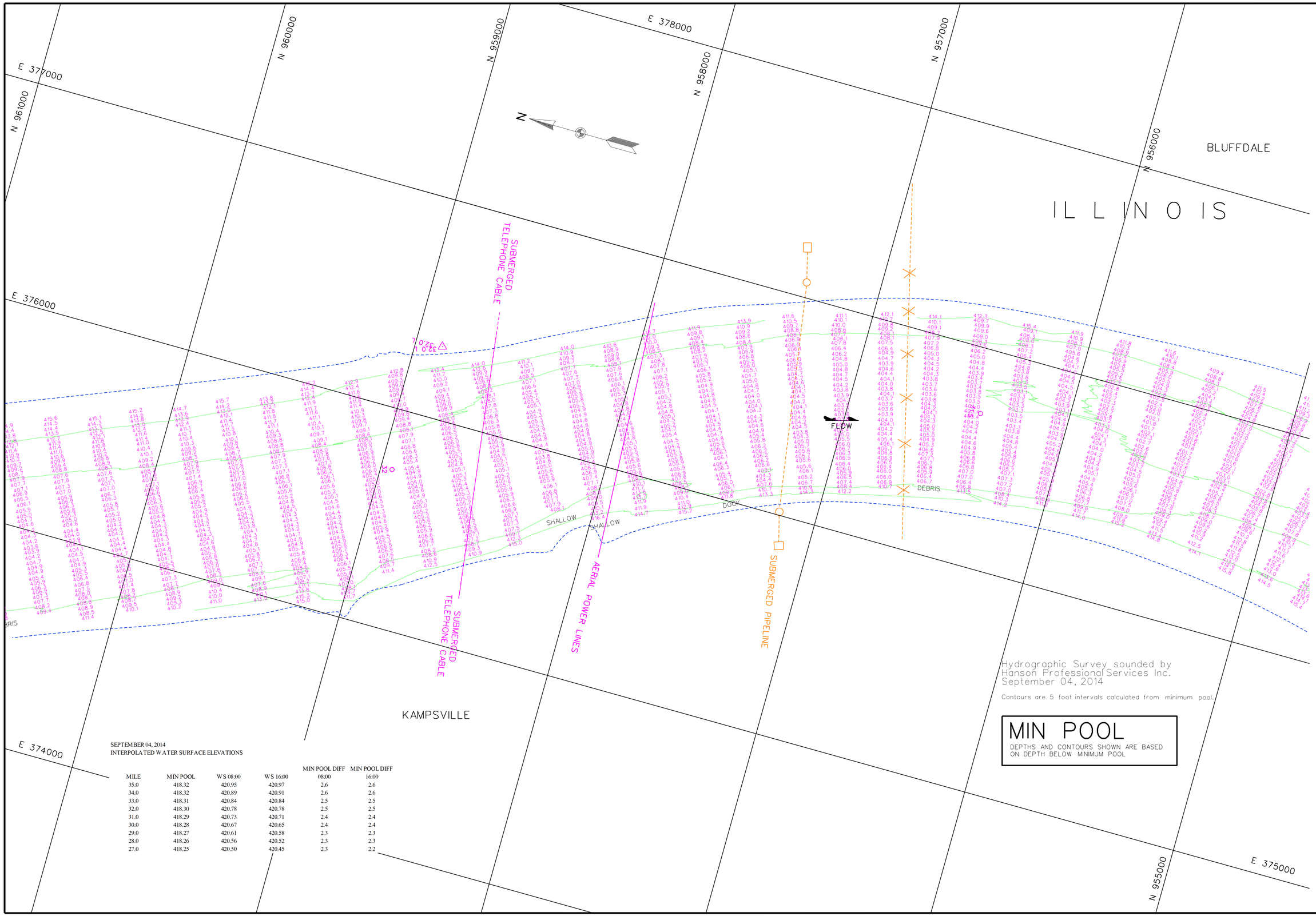
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

45



SEPTEMBER 04, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:00	MIN POOL DIFF 08:00	MIN POOL DIFF 16:00
35.0	418.32	420.95	420.97	2.6	2.6
34.0	418.32	420.89	420.91	2.6	2.6
33.0	418.31	420.84	420.84	2.5	2.5
32.0	418.30	420.78	420.78	2.5	2.5
31.0	418.29	420.73	420.71	2.4	2.4
30.0	418.28	420.67	420.65	2.4	2.4
29.0	418.27	420.61	420.58	2.3	2.3
28.0	418.26	420.56	420.52	2.3	2.3
27.0	418.25	420.50	420.45	2.3	2.2

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN. POOL		418.4	418.2
DATE	04 SEP 2014	421.4 (08:00) 421.5 (16:00)	420.2 (08:00) 420.1 (16:00)

ELEVATIONS ARE REFERED 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: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED: Chief, Geospatial Branch
SUBMITTED: Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'
Survey Date: Sept. 04, 2014

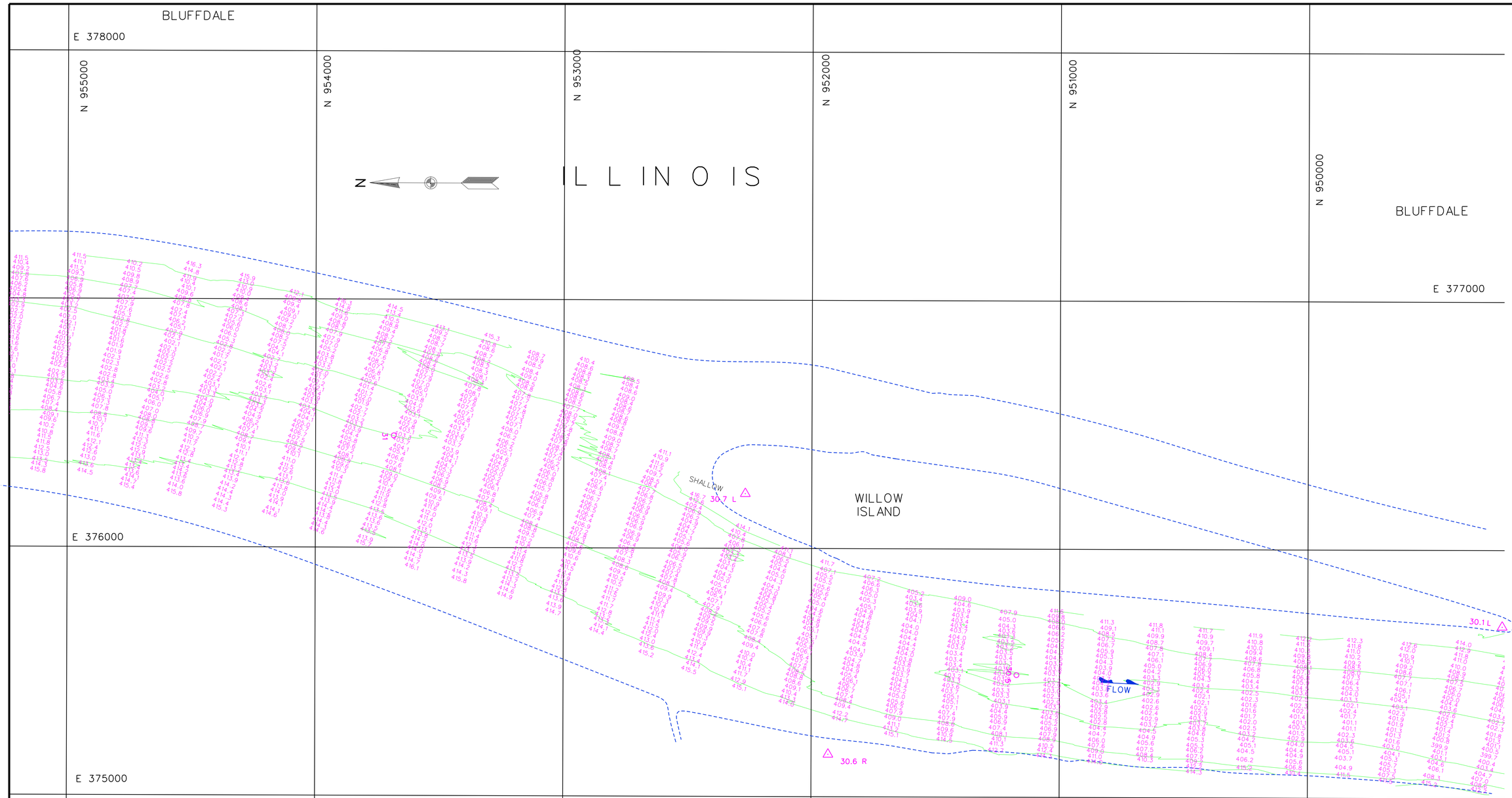
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 60 200
400 FEET 200 0 200

THE INFORMATION REPRESENTED ON THIS MAP REPRESENTS THE RESULTS OF A HYDROGRAPHIC SURVEY AND IS INTENDED TO BE USED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
46



SEPTEMBER 04, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:00	MIN POOL DIFF 08:00	MIN POOL DIFF 16:00
35.0	418.32	420.95	420.97	2.6	2.6
34.0	418.32	420.89	420.91	2.6	2.6
33.0	418.31	420.84	420.84	2.5	2.5
32.0	418.30	420.78	420.78	2.5	2.5
31.0	418.29	420.73	420.71	2.4	2.4
30.0	418.28	420.67	420.65	2.4	2.4
29.0	418.27	420.61	420.58	2.3	2.3
28.0	418.26	420.56	420.52	2.3	2.3
27.0	418.25	420.50	420.45	2.3	2.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 04, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	04 SEP 2014	421.4 (08:00)	420.2 (08:00)
		421.5 (16:00)	420.1 (16:00)

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.)

Survey Date: Sept. 04, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

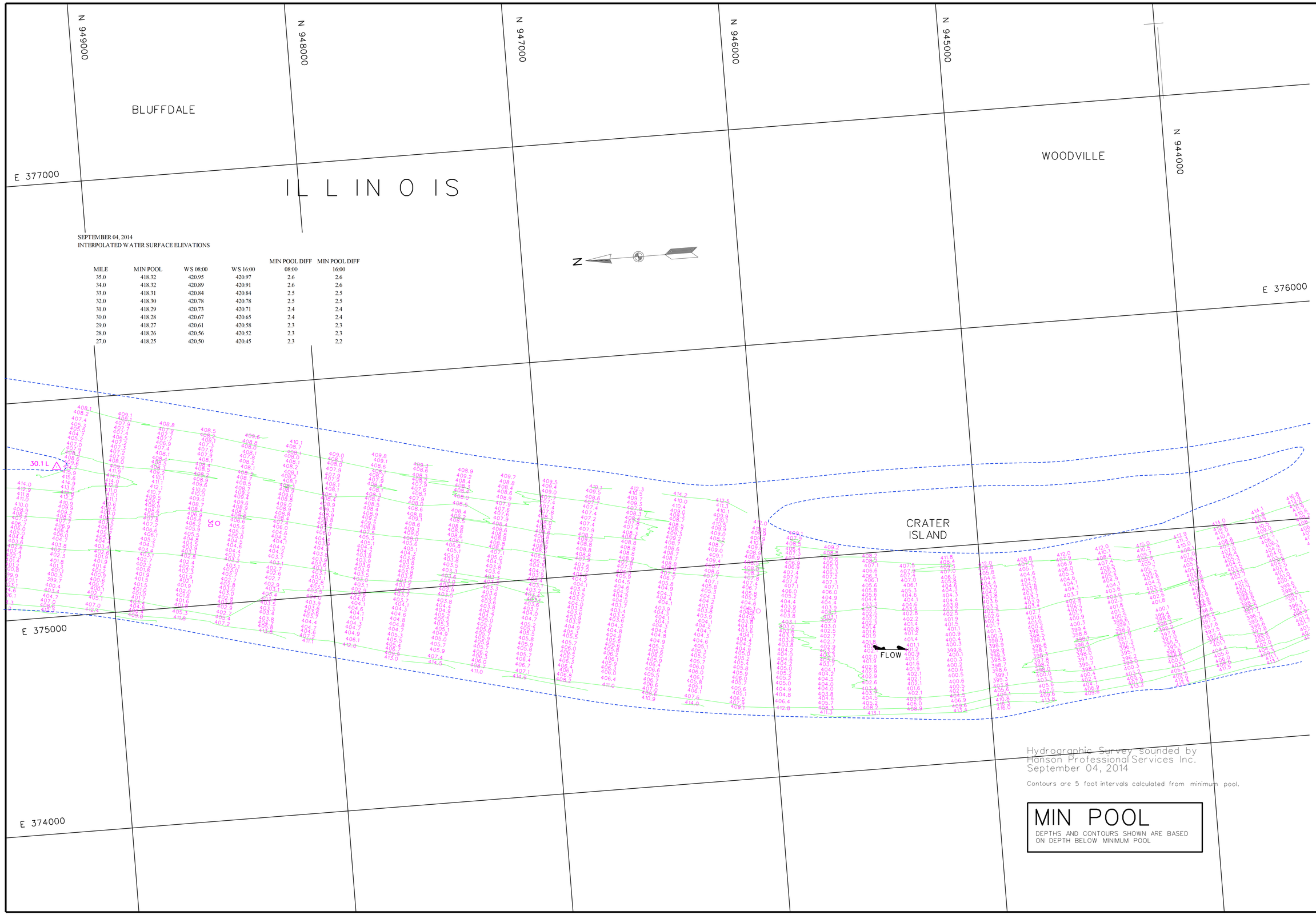
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
47



SEPTEMBER 04, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:00	MIN POOL DIFF 08:00	MIN POOL DIFF 16:00
35.0	418.32	420.95	420.97	2.6	2.6
34.0	418.32	420.89	420.91	2.6	2.6
33.0	418.31	420.84	420.84	2.5	2.5
32.0	418.30	420.78	420.78	2.5	2.5
31.0	418.29	420.73	420.71	2.4	2.4
30.0	418.28	420.67	420.65	2.4	2.4
29.0	418.27	420.61	420.58	2.3	2.3
28.0	418.26	420.56	420.52	2.3	2.3
27.0	418.25	420.50	420.45	2.3	2.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 04, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	04 SEP 2014	421.4 (08:00)	420.2 (08:00)
		421.5 (16:00)	420.1 (16:00)

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.)

Survey Date: Sept. 04, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

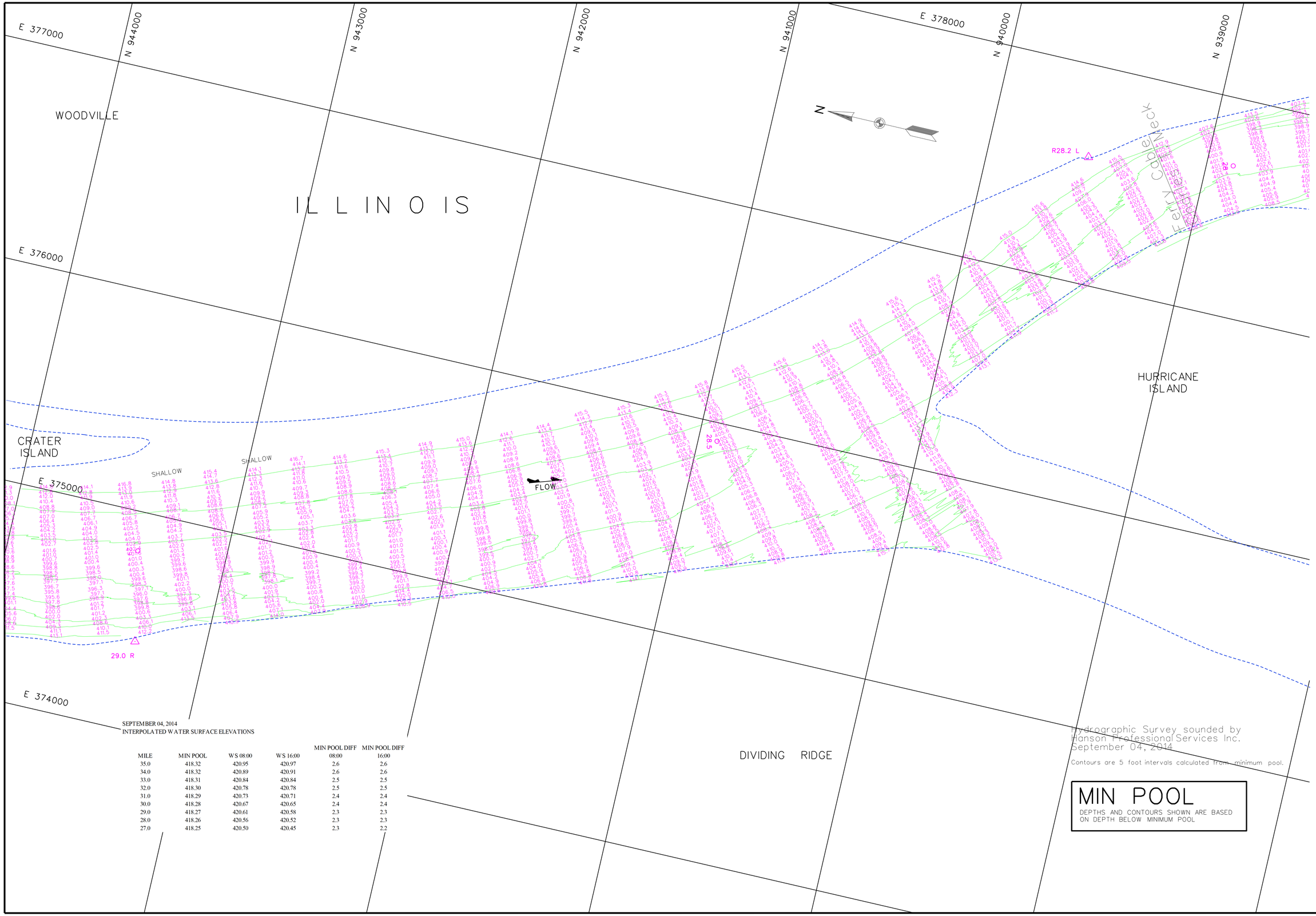
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
48



SEPTEMBER 04, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:00	MIN POOL DIFF 08:00	MIN POOL DIFF 16:00
35.0	418.32	420.95	420.97	2.6	2.6
34.0	418.32	420.89	420.91	2.6	2.6
33.0	418.31	420.84	420.84	2.5	2.5
32.0	418.30	420.78	420.78	2.5	2.5
31.0	418.29	420.73	420.71	2.4	2.4
30.0	418.28	420.67	420.65	2.4	2.4
29.0	418.27	420.61	420.58	2.3	2.3
28.0	418.26	420.56	420.52	2.3	2.3
27.0	418.25	420.50	420.45	2.3	2.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 04, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	04 SEP 2014	421.4 (08:00)	420.2 (08:00)
		421.5 (16:00)	420.1 (16:00)

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.)

Survey Date: Sept. 04, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_00011814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

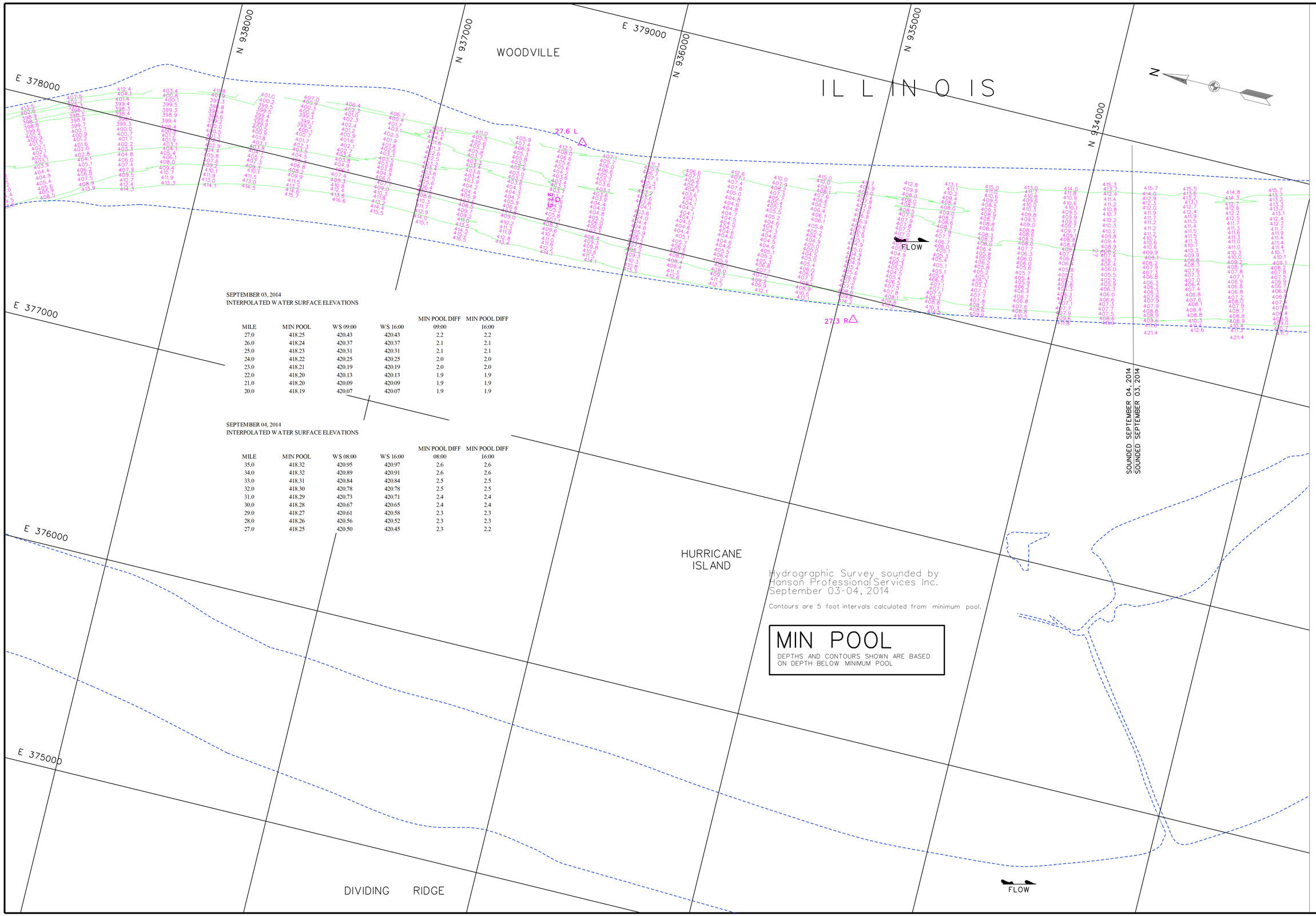
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
49



SEPTEMBER 03, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 16:00	MIN POOL DIFF 09:00	MIN POOL DIFF 16:00
27.0	418.25	420.43	420.43	2.2	2.2
26.0	418.24	420.37	420.37	2.1	2.1
25.0	418.23	420.31	420.31	2.1	2.1
24.0	418.22	420.25	420.25	2.0	2.0
23.0	418.21	420.19	420.19	2.0	2.0
22.0	418.20	420.13	420.13	1.9	1.9
21.0	418.20	420.09	420.09	1.9	1.9
20.0	418.19	420.07	420.07	1.9	1.9

SEPTEMBER 04, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:00	MIN POOL DIFF 08:00	MIN POOL DIFF 16:00
35.0	418.32	420.95	420.97	2.6	2.6
34.0	418.32	420.89	420.91	2.6	2.6
33.0	418.31	420.84	420.84	2.5	2.5
32.0	418.30	420.78	420.78	2.5	2.5
31.0	418.29	420.73	420.71	2.4	2.4
30.0	418.28	420.67	420.65	2.4	2.4
29.0	418.27	420.61	420.58	2.3	2.3
28.0	418.26	420.56	420.52	2.3	2.3
27.0	418.25	420.50	420.45	2.3	2.2

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	03 SEP 2014	421.4 (09:00)	420.1 (09:00)
	04 SEP 2014	421.4 (08:00)	420.2 (08:00)

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.)

Survey Date: Sept. 03-04, 2014

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

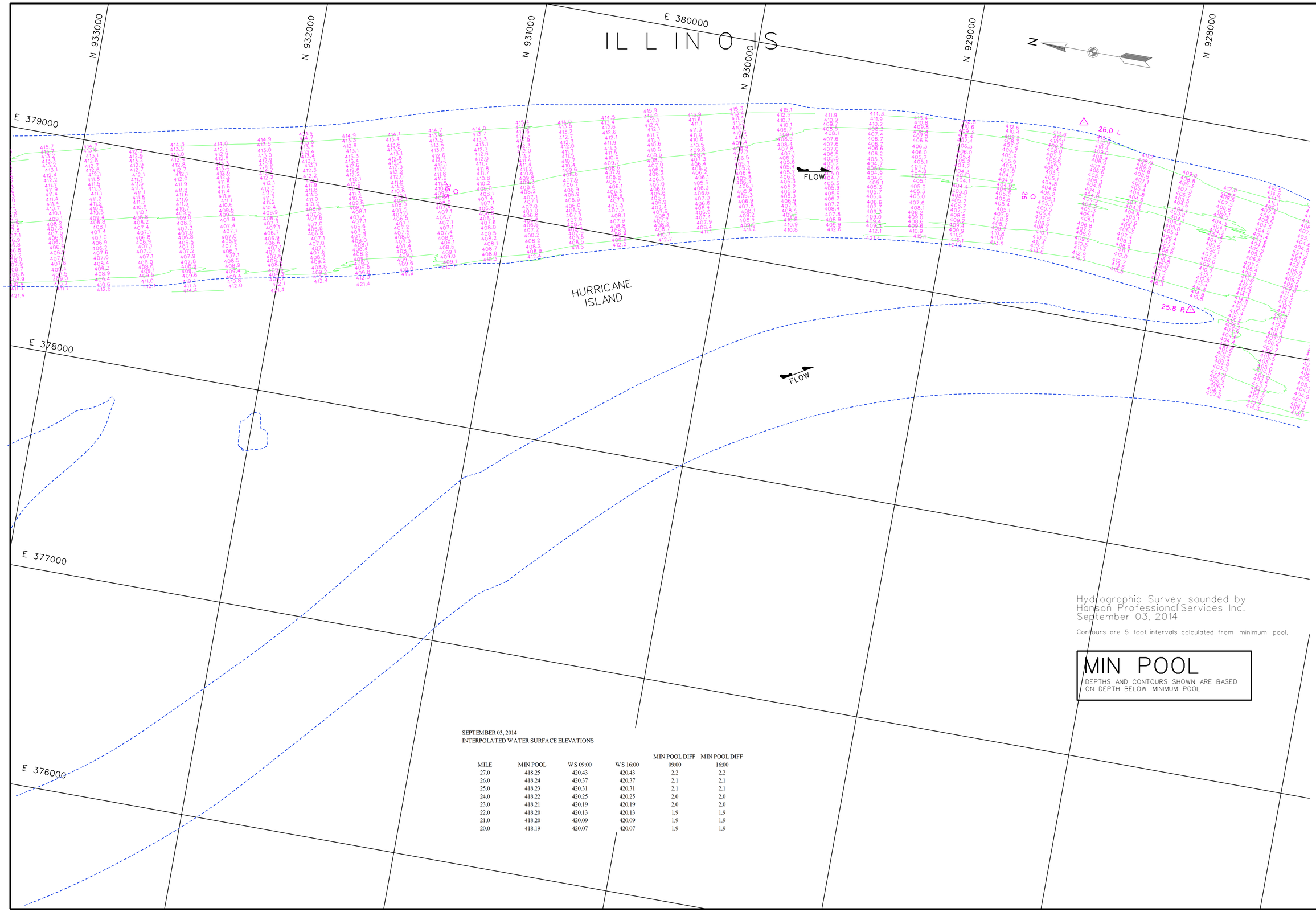
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
50



Hydrographic Survey sounded by Hanson Professional Services Inc. September 03, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

SEPTEMBER 03, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 16:00	MIN POOL DIFF 09:00	MIN POOL DIFF 16:00
27.0	418.25	420.43	420.43	2.2	2.2
26.0	418.24	420.37	420.37	2.1	2.1
25.0	418.23	420.31	420.31	2.1	2.1
24.0	418.22	420.25	420.25	2.0	2.0
23.0	418.21	420.19	420.19	2.0	2.0
22.0	418.20	420.13	420.13	1.9	1.9
21.0	418.20	420.09	420.09	1.9	1.9
20.0	418.19	420.07	420.07	1.9	1.9

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	03 SEP 2014	421.4 (09:00)	420.1 (09:00)
		421.4 (16:00)	420.1 (16:00)

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.)

Survey Date: Sept. 03, 2014

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

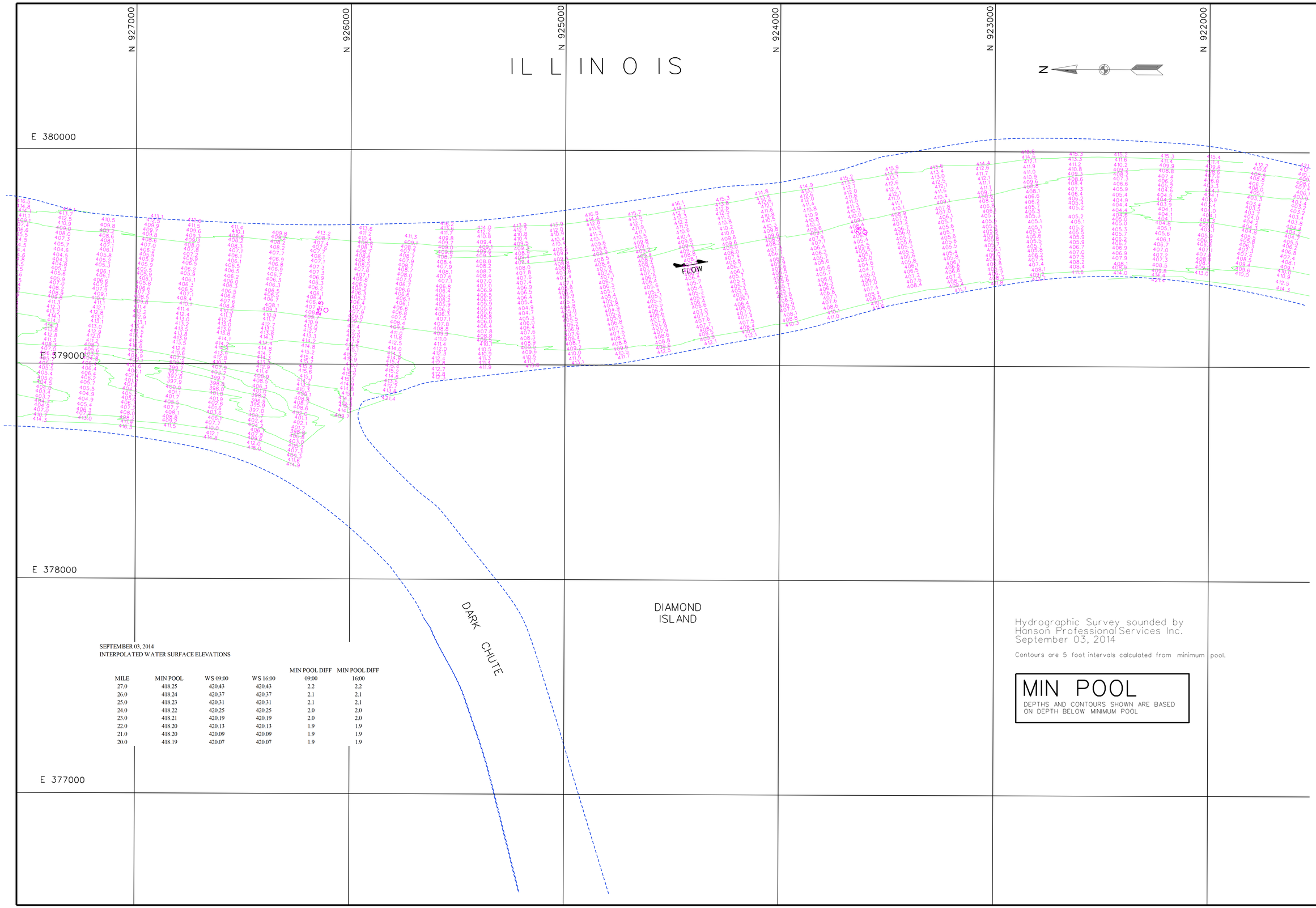
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
51



SEPTEMBER 03, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 16:00	MIN POOL DIFF 09:00	MIN POOL DIFF 16:00
27.0	418.25	420.43	420.43	2.2	2.2
26.0	418.24	420.37	420.37	2.1	2.1
25.0	418.23	420.31	420.31	2.1	2.1
24.0	418.22	420.25	420.25	2.0	2.0
23.0	418.21	420.19	420.19	2.0	2.0
22.0	418.20	420.13	420.13	1.9	1.9
21.0	418.20	420.09	420.09	1.9	1.9
20.0	418.19	420.07	420.07	1.9	1.9

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 03, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	03 SEP 2014	421.4 (09:00) 421.4 (16:00)	420.1(09:00) 420.1(16:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (54,000 CFS)

Surveyed by: HANSON
Drawn by: JLK
Checked by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

Survey Date: Sept. 03, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

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

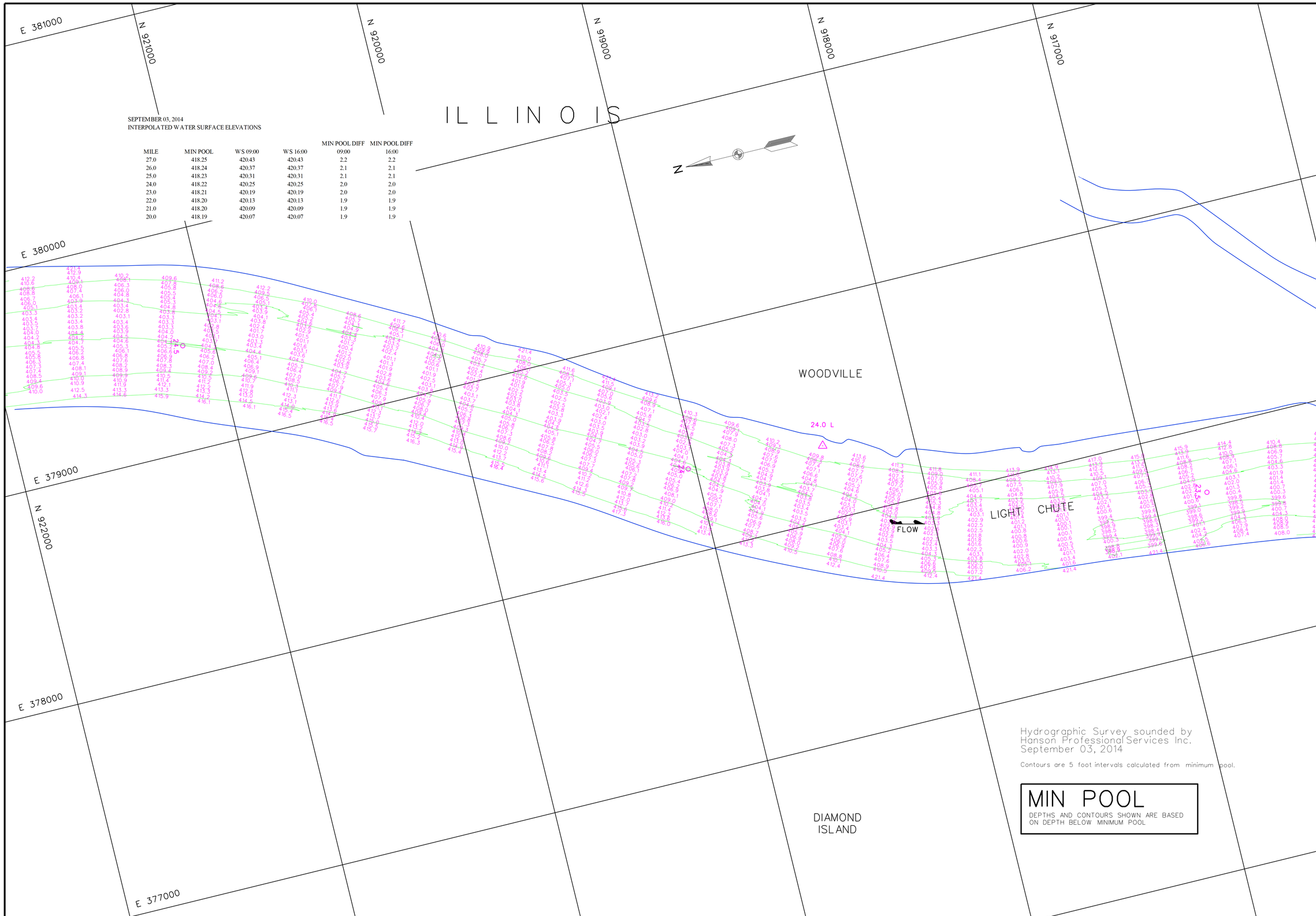
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS
400 FEET
60 0 60
200 0 200

THE INFORMATION REPRESENTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY PERFORMED ON THE DATE(S) SHOWN AND MAY NOT BE ACCURATE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

52



SEPTEMBER 03, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 16:00	MIN POOL DIFF 09:00	MIN POOL DIFF 16:00
27.0	418.25	420.43	420.43	2.2	2.2
26.0	418.24	420.37	420.37	2.1	2.1
25.0	418.23	420.31	420.31	2.1	2.1
24.0	418.22	420.25	420.25	2.0	2.0
23.0	418.21	420.19	420.19	2.0	2.0
22.0	418.20	420.13	420.13	1.9	1.9
21.0	418.20	420.09	420.09	1.9	1.9
20.0	418.19	420.07	420.07	1.9	1.9

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN. POOL		418.4	418.2
DATE	03 SEP 2014	421.4 (09:00) 421.4 (16:00)	420.1(09:00) 420.1(16:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (34,000 C.F.S.)

Survey Date: Sept. 03, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Cad by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

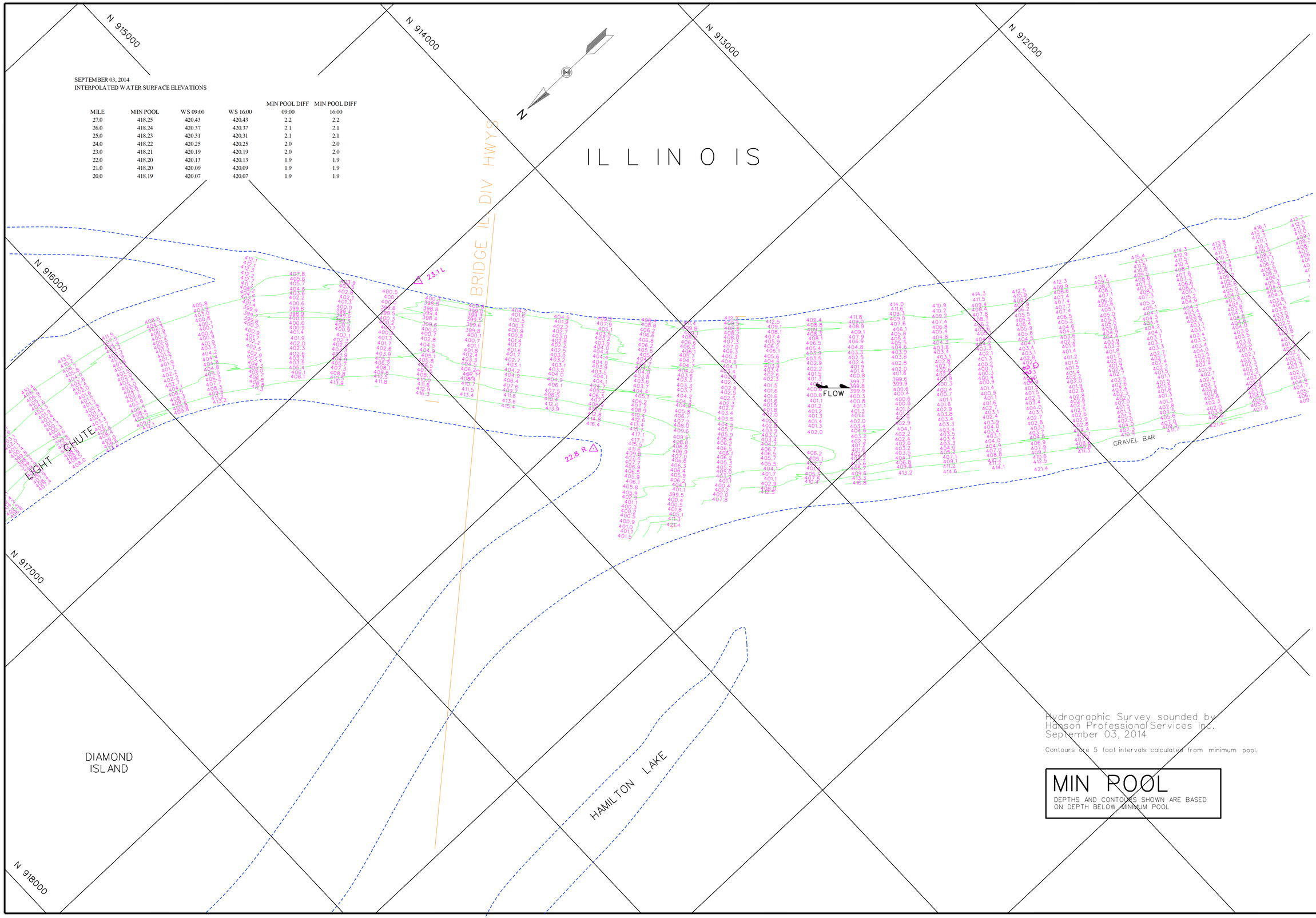
120 METERS 400 FEET
60 0 60 200 0 200

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A HYDROGRAPHIC SURVEY PERFORMED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
53

SEPTEMBER 03, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 16:00	MIN POOL DIFF 09:00	MIN POOL DIFF 16:00
27.0	418.25	420.43	420.43	2.2	2.2
26.0	418.24	420.37	420.37	2.1	2.1
25.0	418.23	420.31	420.31	2.1	2.1
24.0	418.22	420.25	420.25	2.0	2.0
23.0	418.21	420.19	420.19	2.0	2.0
22.0	418.20	420.13	420.13	1.9	1.9
21.0	418.20	420.09	420.09	1.9	1.9
20.0	418.19	420.07	420.07	1.9	1.9



Hydrographic Survey sounded by Hanson Professional Services Inc. September 03, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	03 SEP 2014	421.4 (09:00)	420.1 (09:00)
		421.4 (16:00)	420.1 (16:00)

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.)

Survey Date: Sept. 03, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

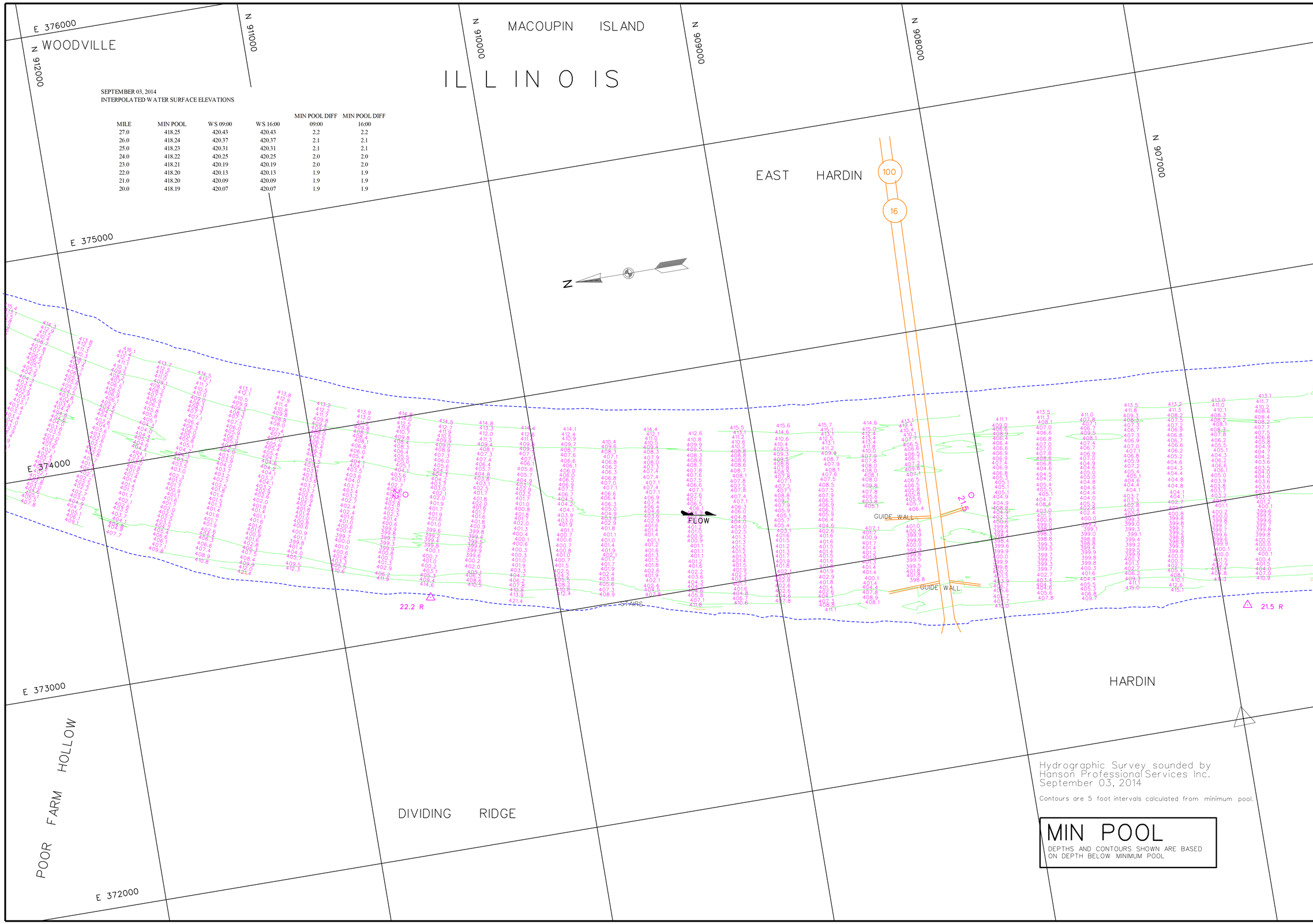
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
54



SEPTEMBER 03, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 16:00	MIN POOL DIFF 09:00	MIN POOL DIFF 16:00
27.0	418.25	420.43	420.43	2.2	2.2
26.0	418.24	420.37	420.37	2.1	2.1
25.0	418.23	420.31	420.31	2.1	2.1
24.0	418.22	420.25	420.25	2.0	2.0
23.0	418.21	420.19	420.19	2.0	2.0
22.0	418.20	420.13	420.13	1.9	1.9
21.0	418.20	420.09	420.09	1.9	1.9
20.0	418.19	420.07	420.07	1.9	1.9

Hydrographic Survey sounded by
Hanson Professional Services Inc.
September 03, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD			
	WATER SURFACE	PEARL	HARDIN
ZERO N.G.V.D.		400.0	400.0
MILE		43.2	21.5
MIN POOL		418.4	418.2
DATE	03 SEP 2014	421.4 (09:00) 421.4 (16:00)	420.1(09:00) 420.1(16:00)

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

Survey Date: Sept. 03, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001894.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

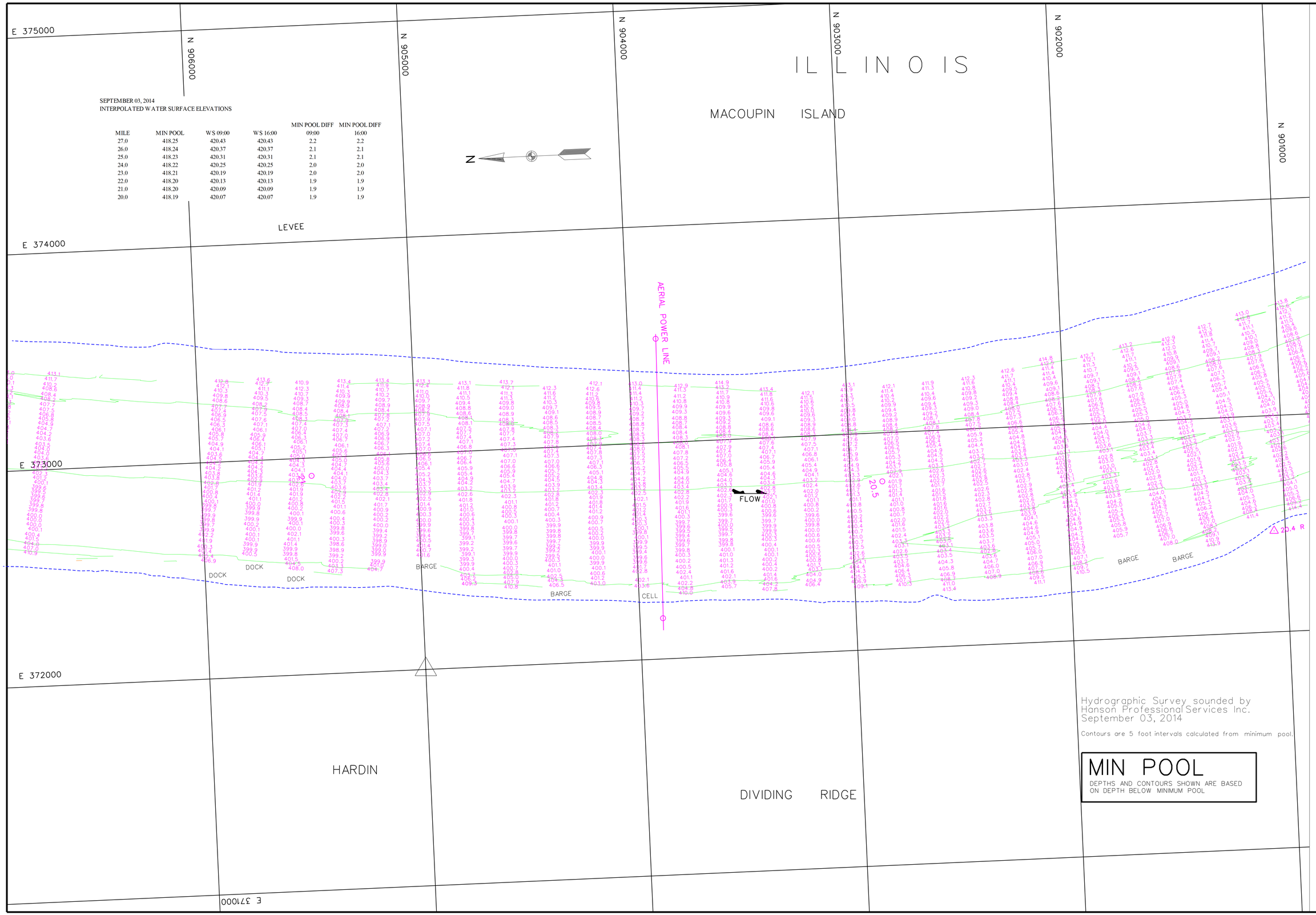
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 200 400 FEET

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

PLATE NUMBER
55



SEPTEMBER 03, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 16:00	MIN POOL DIFF 09:00	MIN POOL DIFF 16:00
27.0	418.25	420.43	420.43	2.2	2.2
26.0	418.24	420.37	420.37	2.1	2.1
25.0	418.23	420.31	420.31	2.1	2.1
24.0	418.22	420.25	420.25	2.0	2.0
23.0	418.21	420.19	420.19	2.0	2.0
22.0	418.20	420.13	420.13	1.9	1.9
21.0	418.20	420.09	420.09	1.9	1.9
20.0	418.19	420.07	420.07	1.9	1.9

Hydrographic Survey sounded by Hanson Professional Services Inc. September 03, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	03 SEP 2014	420.1 (09:00)	419.6 (09:00)
		420.1 (16:00)	419.6 (16:00)

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.)

Survey Date: Sept. 03, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

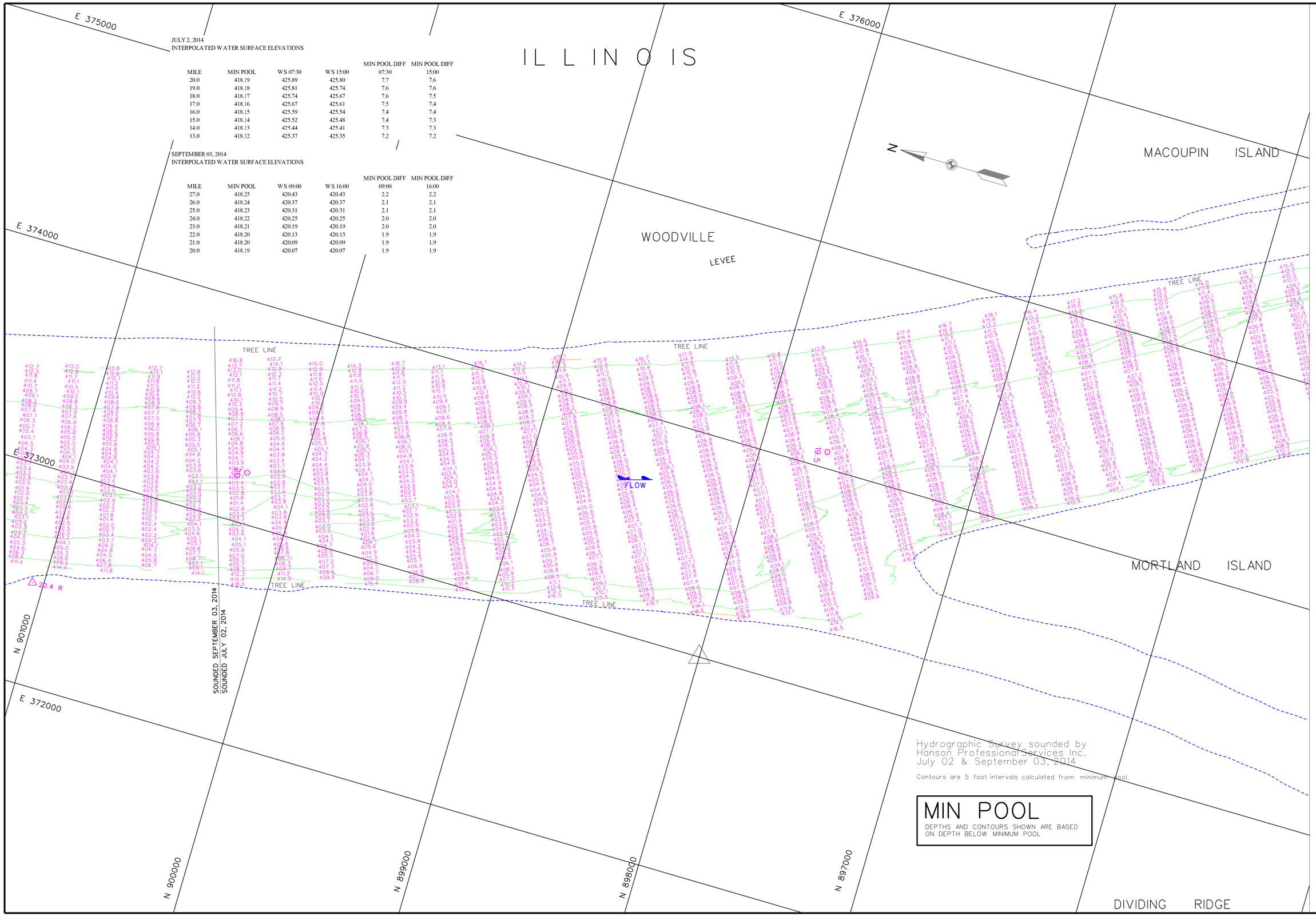
56

JULY 2, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 15:00	MIN POOL DIFF 07:30	MIN POOL DIFF 15:00
20.0	418.19	425.89	425.80	7.7	7.6
19.0	418.18	425.81	425.74	7.6	7.6
18.0	418.17	425.74	425.67	7.6	7.5
17.0	418.16	425.67	425.61	7.5	7.4
16.0	418.15	425.59	425.54	7.4	7.4
15.0	418.14	425.52	425.48	7.4	7.3
14.0	418.13	425.44	425.41	7.3	7.3
13.0	418.12	425.37	425.35	7.2	7.2

SEPTEMBER 03, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 09:00	WS 16:00	MIN POOL DIFF 09:00	MIN POOL DIFF 16:00
27.0	418.25	420.43	420.43	2.2	2.2
26.0	418.24	420.37	420.37	2.1	2.1
25.0	418.23	420.31	420.31	2.1	2.1
24.0	418.22	420.25	420.25	2.0	2.0
23.0	418.21	420.19	420.19	2.0	2.0
22.0	418.20	420.13	420.13	1.9	1.9
21.0	418.20	420.09	420.09	1.9	1.9
20.0	418.19	420.07	420.07	1.9	1.9



US Army Corps of Engineers
St. Louis District

GAGE RECORD

WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.	400.0	403.8
MILE	21.5	0.0
MIN. POOL	418.2	418.0
DATE		
02 JUL 2014	426.0 (07:30)	424.4 (07:30)
03 SEP 2014	420.1 (09:00)	419.6 (09:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (34,000 C.F.S.)

Survey Date: July 02, 2014
Sept. 03, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Cked by: JCL
Reviewed by:
APPROVED: Chief, Geospatial Branch

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

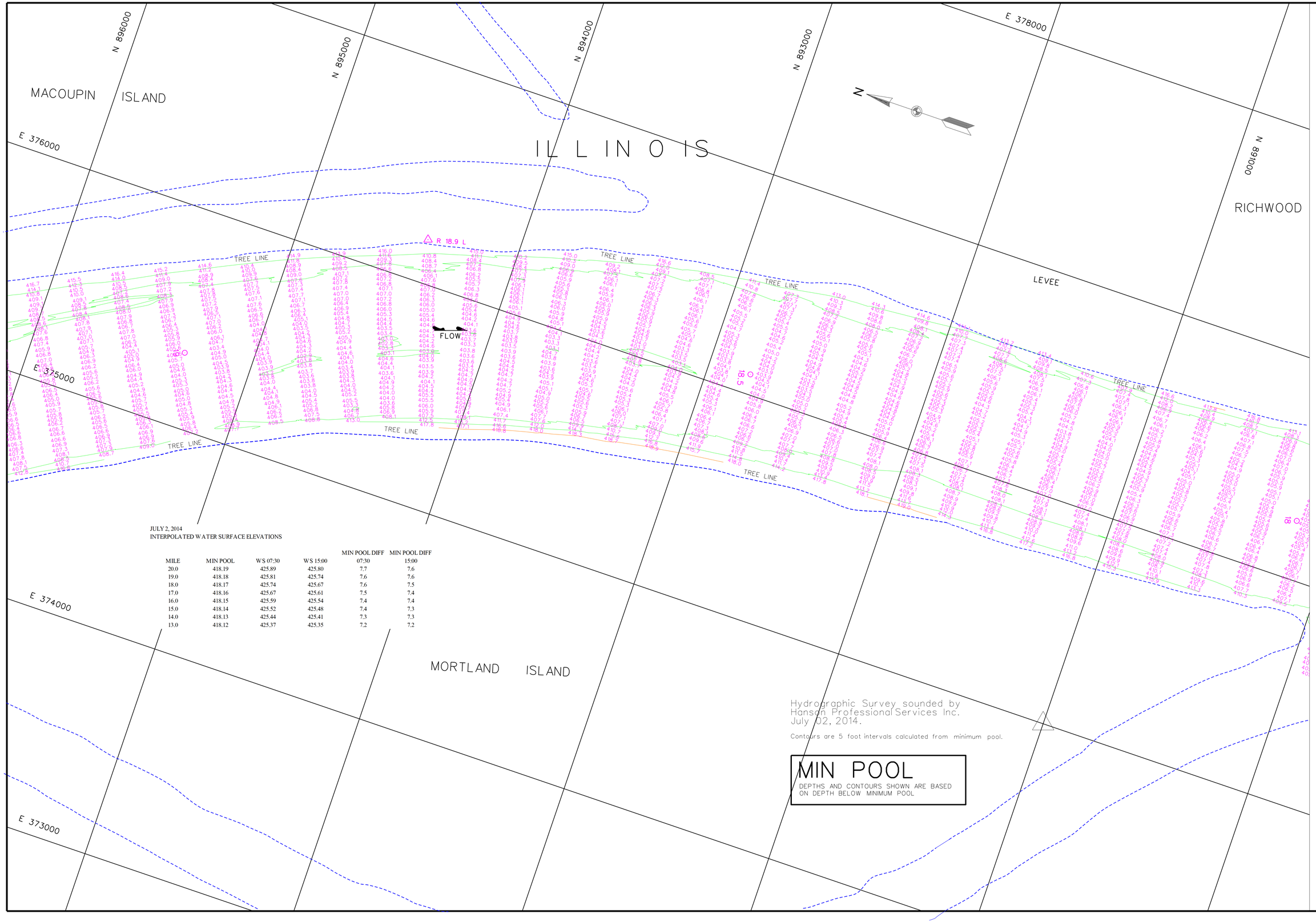
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 200 400 FEET

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT DATES AND TIMES SPECIFIED AND IS INTENDED TO BE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

57



JULY 2, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 15:00	MIN POOL DIFF 07:30	MIN POOL DIFF 15:00
20.0	418.19	425.89	425.80	7.7	7.6
19.0	418.18	425.81	425.74	7.6	7.6
18.0	418.17	425.74	425.67	7.6	7.5
17.0	418.16	425.67	425.61	7.5	7.4
16.0	418.15	425.59	425.54	7.4	7.4
15.0	418.14	425.52	425.48	7.4	7.3
14.0	418.13	425.44	425.41	7.3	7.3
13.0	418.12	425.37	425.35	7.2	7.2

Hydrographic Survey sounded by Hanson Professional Services Inc. July 02, 2014.

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	02 JUL 2014	426.0 (07:30)	424.4 (07:30)
		425.9 (15:00)	424.5 (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.)

Survey Date: July 02, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

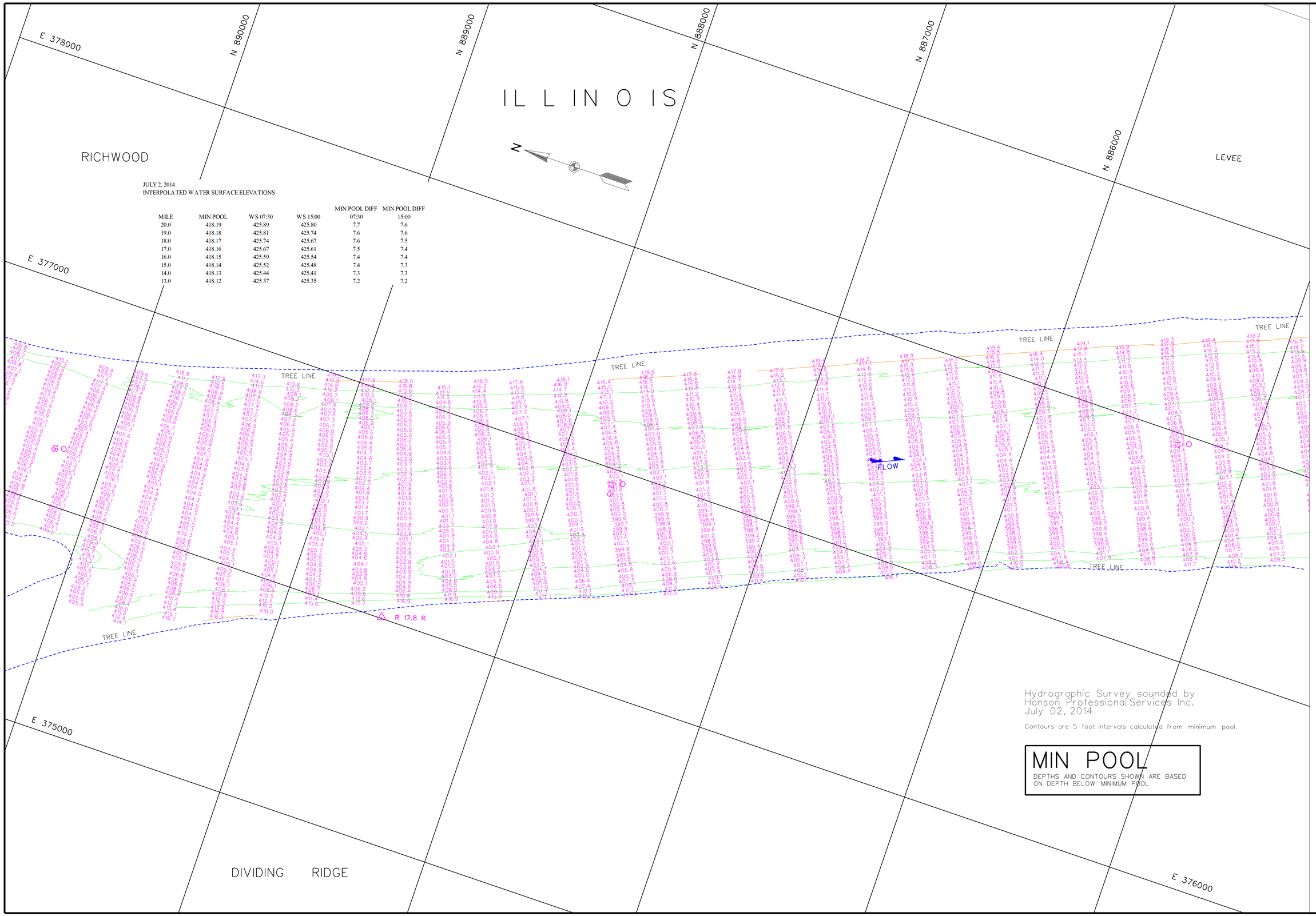
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
58



JULY 2, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 15:00	MIN POOL DIFF 07:30	MIN POOL DIFF 15:00
20.0	418.19	425.89	425.80	7.7	7.6
19.0	418.18	425.81	425.74	7.6	7.6
18.0	418.17	425.74	425.67	7.6	7.5
17.0	418.16	425.67	425.61	7.5	7.4
16.0	418.15	425.59	425.54	7.4	7.4
15.0	418.14	425.52	425.48	7.4	7.3
14.0	418.13	425.44	425.41	7.3	7.3
13.0	418.12	425.37	425.35	7.2	7.2

Hydrographic Survey sounded by Hanson Professional Services Inc. July 02, 2014.

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	02 JUL 2014	426.0 (07:30)	424.4 (07:30)
		425.9 (15:00)	424.5 (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.)

Survey Date: July 02, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

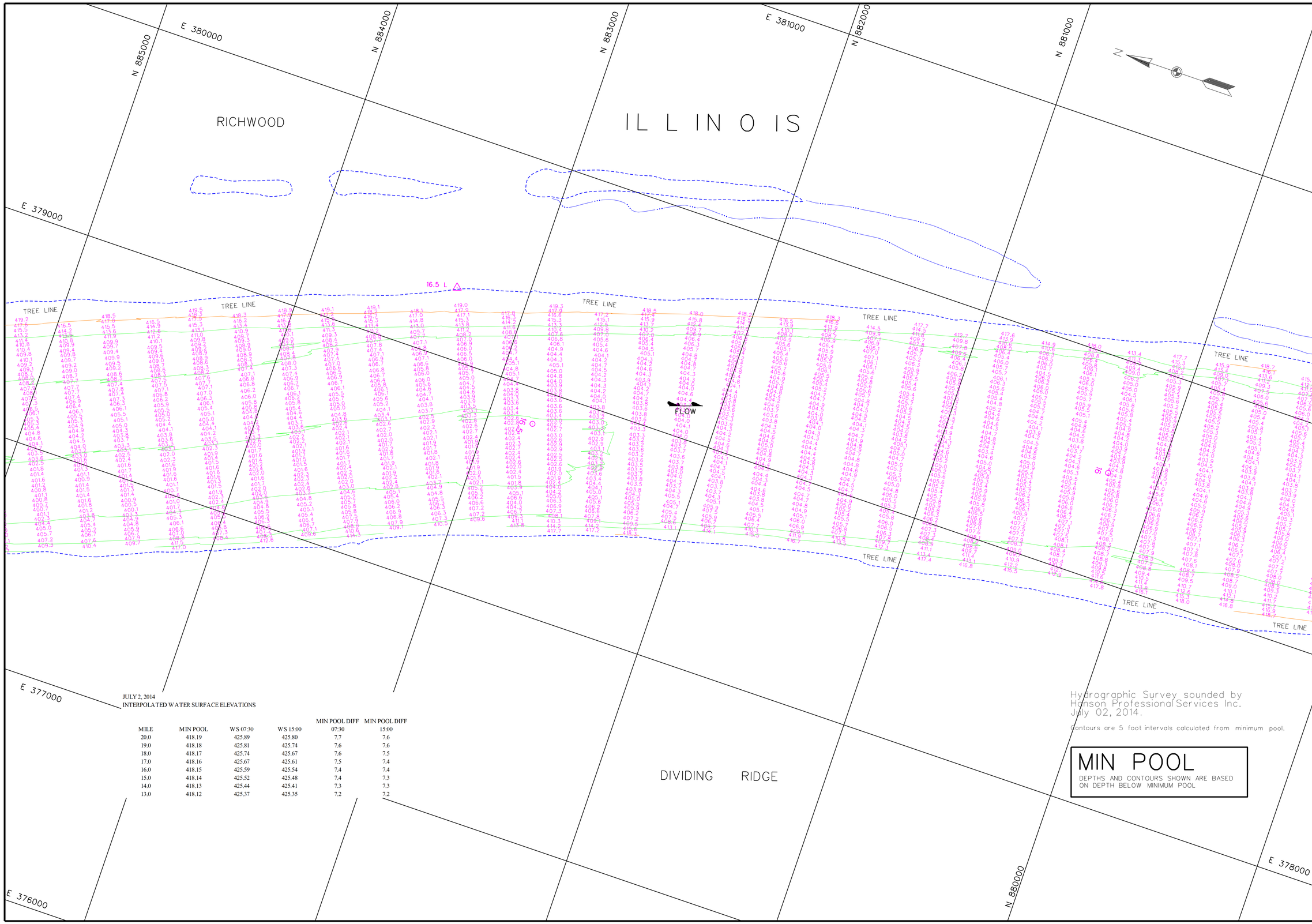
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

59



JULY 2, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 15:00	MIN POOL DIFF 07:30	MIN POOL DIFF 15:00
20.0	418.19	425.89	425.80	7.7	7.6
19.0	418.18	425.81	425.74	7.6	7.6
18.0	418.17	425.74	425.67	7.6	7.5
17.0	418.16	425.67	425.61	7.5	7.4
16.0	418.15	425.59	425.54	7.4	7.4
15.0	418.14	425.52	425.48	7.4	7.3
14.0	418.13	425.44	425.41	7.3	7.3
13.0	418.12	425.37	425.35	7.2	7.2

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN. POOL		418.2	418.0
DATE	02 JUL 2014	426.0 (07:30) 425.9 (15:00)	424.4 (07:30) 424.5 (15:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (3-D GD C.F.S.)

Survey Date: July 02, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Cktd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

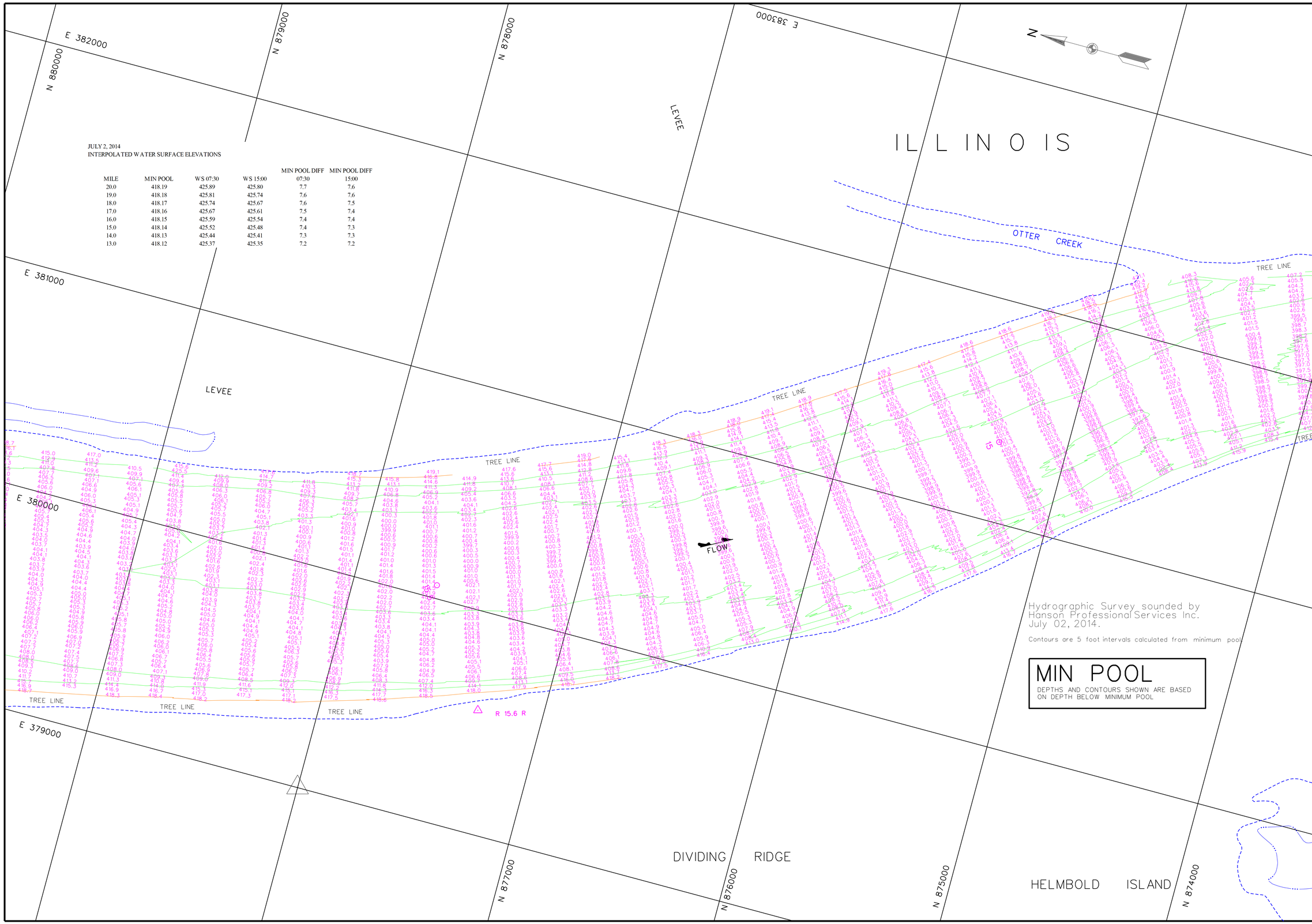
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 400 FEET
60 200
0 0
60 200

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE AT THE TIME SHOWN AND IS INTENDED TO BE INTERPRETED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
60



JULY 2, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 15:00	MIN POOL DIFF 07:30	MIN POOL DIFF 15:00
20.0	418.19	425.89	425.80	7.7	7.6
19.0	418.18	425.81	425.74	7.6	7.6
18.0	418.17	425.74	425.67	7.6	7.5
17.0	418.16	425.67	425.61	7.5	7.4
16.0	418.15	425.59	425.54	7.4	7.4
15.0	418.14	425.52	425.48	7.4	7.3
14.0	418.13	425.44	425.41	7.3	7.3
13.0	418.12	425.37	425.35	7.2	7.2

Hydrographic Survey sounded by Hanson Professional Services Inc. July 02, 2014.

Contours are 5 foot intervals calculated from minimum pool

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	02 JUL 2014	426.0 (07:30)	424.4 (07:30)
		425.9 (15:00)	424.5 (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.)

Survey Date: July 02, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

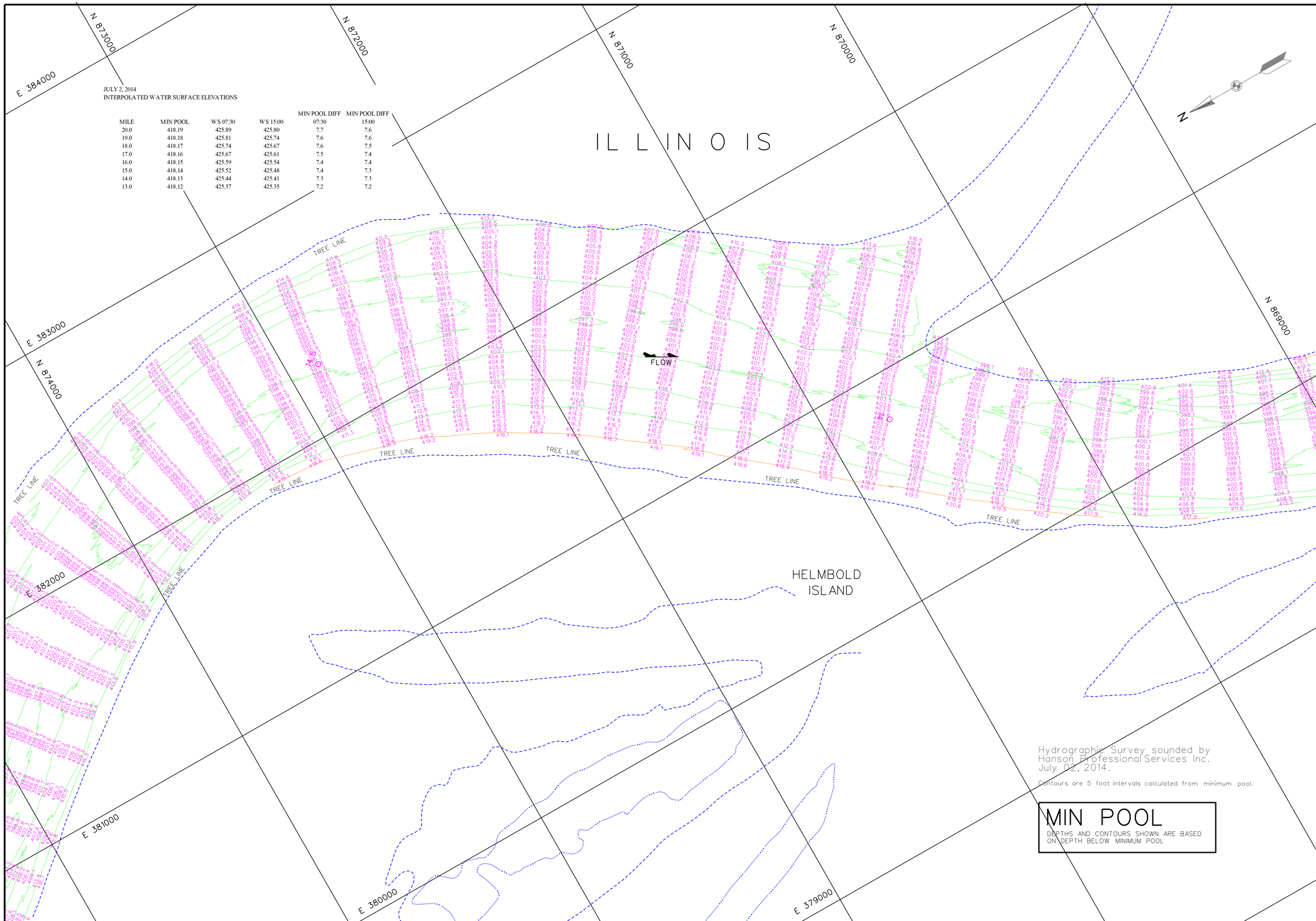
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

61



JULY 2, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 15:00	MIN POOL DIFF 07:30	MIN POOL DIFF 15:00
20.0	418.19	425.89	425.80	7.7	7.6
19.0	418.18	425.81	425.74	7.6	7.6
18.0	418.17	425.74	425.67	7.6	7.5
17.0	418.16	425.67	425.61	7.5	7.4
16.0	418.15	425.59	425.54	7.4	7.4
15.0	418.14	425.52	425.48	7.4	7.3
14.0	418.13	425.44	425.41	7.3	7.3
13.0	418.12	425.37	425.35	7.2	7.2

Hydrographic Survey sounded by
Hanson Professional Services Inc.
July 02, 2014.

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	02 JUL 2014	426.0 (07:30)	424.4 (07:30)
		425.9 (15:00)	424.5 (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.)

Survey Date: July 02, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

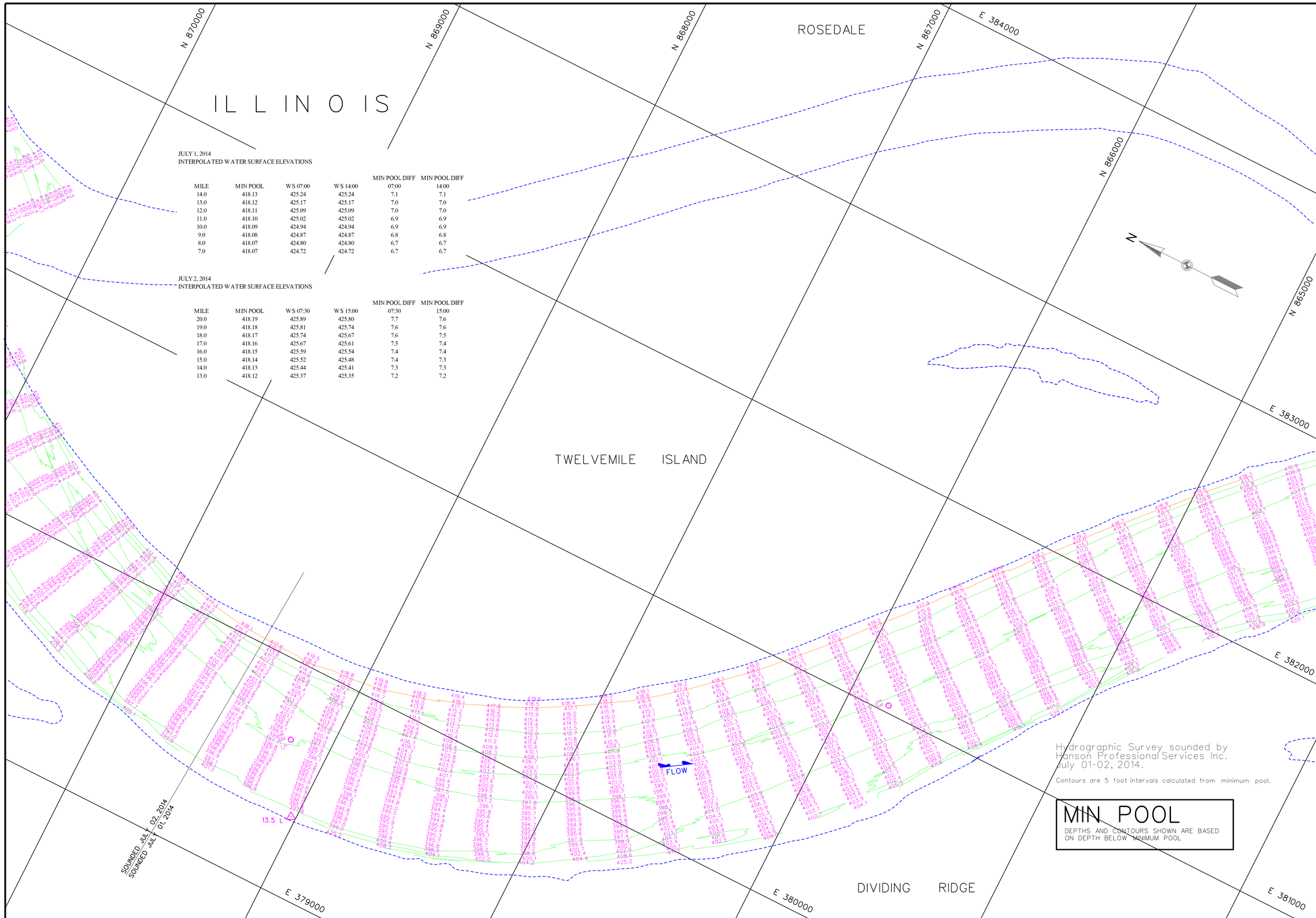
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
62



JULY 1, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:00	WS 14:00	MIN POOL DIFF 07:00	MIN POOL DIFF 14:00
14.0	418.13	425.24	425.24	7.1	7.1
13.0	418.12	425.17	425.17	7.0	7.0
12.0	418.11	425.09	425.09	7.0	7.0
11.0	418.10	425.02	425.02	6.9	6.9
10.0	418.09	424.94	424.94	6.9	6.9
9.0	418.08	424.87	424.87	6.8	6.8
8.0	418.07	424.80	424.80	6.7	6.7
7.0	418.07	424.72	424.72	6.7	6.7

JULY 2, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:30	WS 15:00	MIN POOL DIFF 07:30	MIN POOL DIFF 15:00
20.0	418.19	425.89	425.80	7.7	7.6
19.0	418.18	425.81	425.74	7.6	7.6
18.0	418.17	425.74	425.67	7.6	7.5
17.0	418.16	425.67	425.61	7.5	7.4
16.0	418.15	425.59	425.54	7.4	7.4
15.0	418.14	425.52	425.48	7.4	7.3
14.0	418.13	425.44	425.41	7.3	7.3
13.0	418.12	425.37	425.35	7.2	7.2

Hydrographic Survey sounded by Hanson Professional Services Inc. July 01-02, 2014.

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	01 JUL 2014	425.8 (07:00)	424.2 (07:00)
	02 JUL 2014	426.0 (07:30)	424.4 (07:30)

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.)

Survey Date: July 01-02, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_00011814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

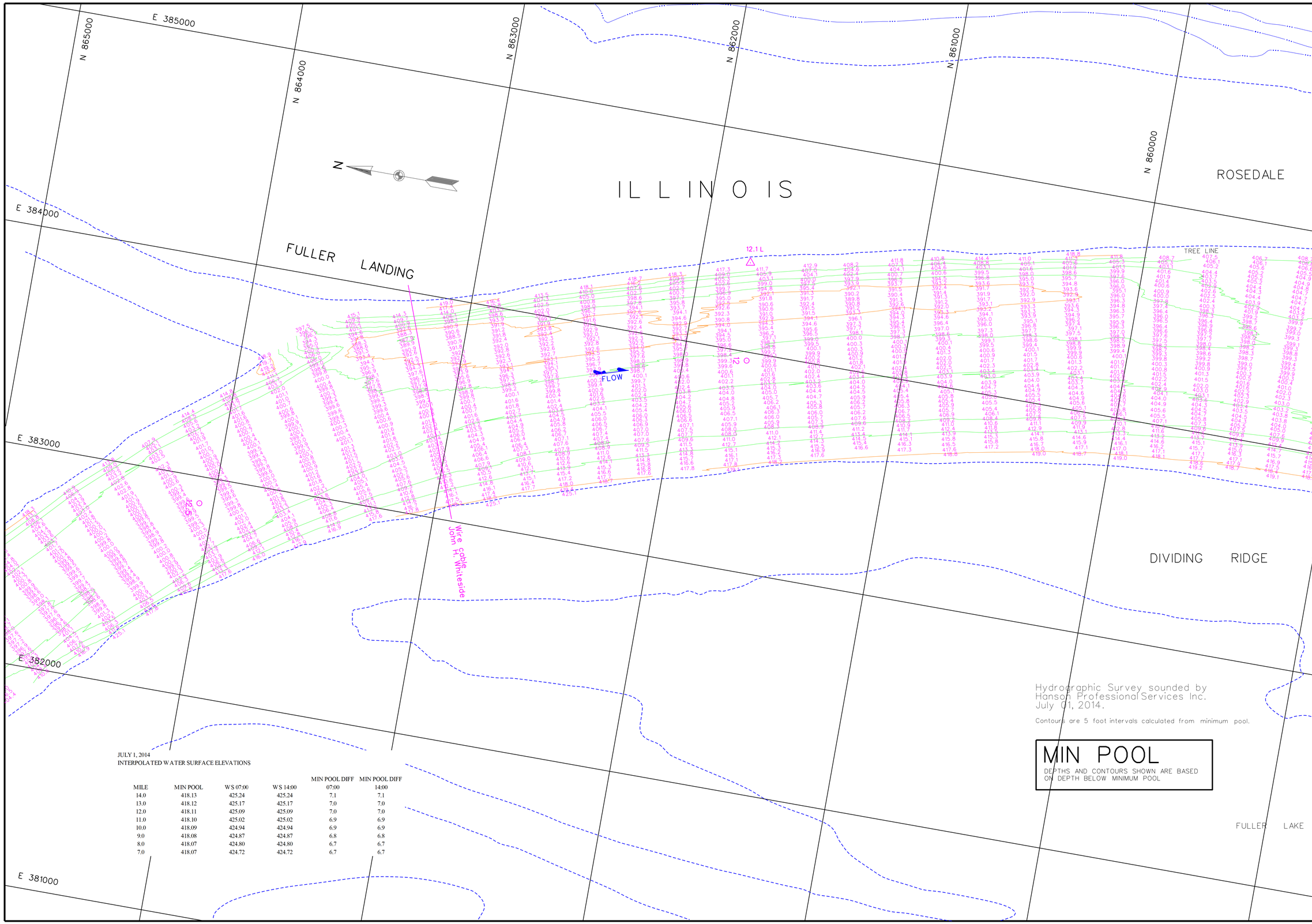
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

63



Hydrographic Survey sounded by
Hanson Professional Services Inc.
July 01, 2014.

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

JULY 1, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:00	WS 14:00	MIN POOL DIFF 07:00	MIN POOL DIFF 14:00
14.0	418.13	425.24	425.24	7.1	7.1
13.0	418.12	425.17	425.17	7.0	7.0
12.0	418.11	425.09	425.09	7.0	7.0
11.0	418.10	425.02	425.02	6.9	6.9
10.0	418.09	424.94	424.94	6.9	6.9
9.0	418.08	424.87	424.87	6.8	6.8
8.0	418.07	424.80	424.80	6.7	6.7
7.0	418.07	424.72	424.72	6.7	6.7

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN. POOL		418.2	418.0
DATE	01 JUL 2014	425.8 (07:00) 425.8 (14:00)	424.2 (07:00) 424.2 (14:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (34,000 C.F.S.)

Survey Date: July 01, 2014

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Cktd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

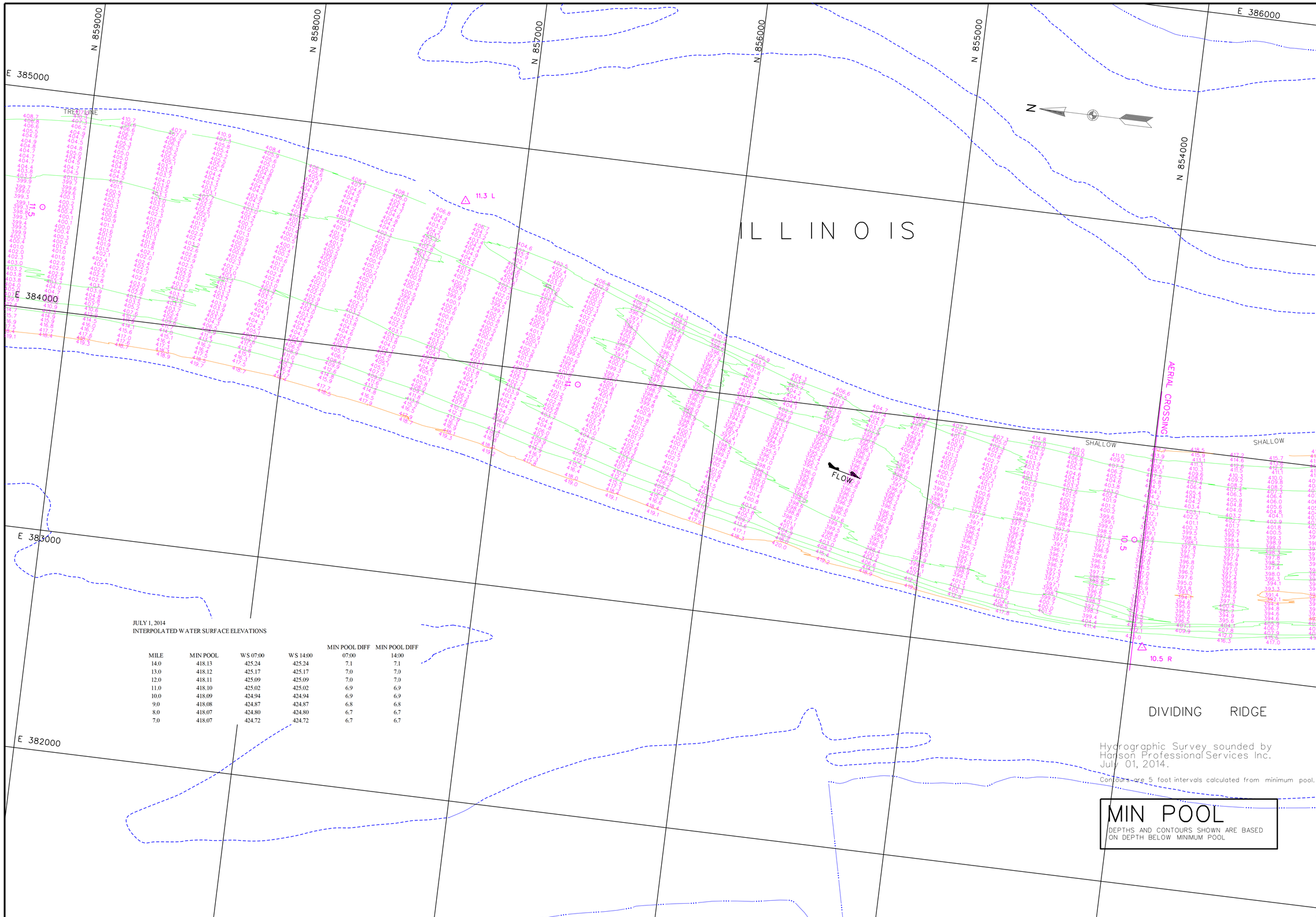
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 200 400 FEET

THE INFORMATION REPRESENTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE INDICATED AND IS ACCURATE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

64



JULY 1, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:00	WS 14:00	MIN POOL DIFF 07:00	MIN POOL DIFF 14:00
14.0	418.13	425.24	425.24	7.1	7.1
13.0	418.12	425.17	425.17	7.0	7.0
12.0	418.11	425.09	425.09	7.0	7.0
11.0	418.10	425.02	425.02	6.9	6.9
10.0	418.09	424.94	424.94	6.9	6.9
9.0	418.08	424.87	424.87	6.8	6.8
8.0	418.07	424.80	424.80	6.7	6.7
7.0	418.07	424.72	424.72	6.7	6.7

Hydrographic Survey sounded by
Hanson Professional Services Inc.
July 01, 2014.

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	01 JUL 2014	425.8 (07:00) 425.8 (14:00)	424.2 (07:00) 424.2 (14:00)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (34,000 C.F.S.)

Survey Date: July 01, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED: Chief, Geospatial Branch

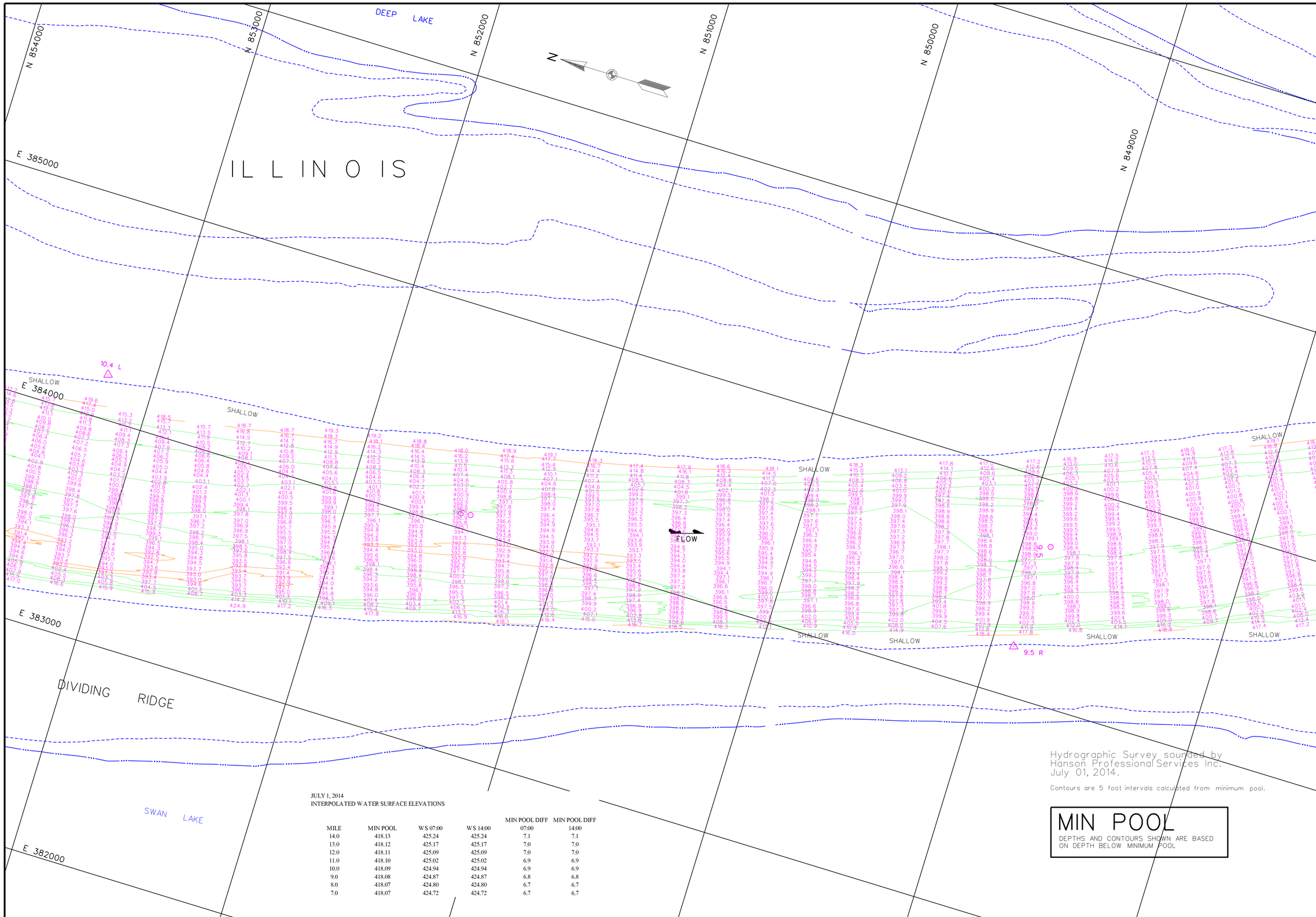
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 60
400 FEET 200 0 200

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

PLATE NUMBER
65



JULY 1, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:00	WS 14:00	MIN POOL DIFF 07:00	MIN POOL DIFF 14:00
14.0	418.13	425.24	425.24	7.1	7.1
13.0	418.12	425.17	425.17	7.0	7.0
12.0	418.11	425.09	425.09	7.0	7.0
11.0	418.10	425.02	425.02	6.9	6.9
10.0	418.09	424.94	424.94	6.9	6.9
9.0	418.08	424.87	424.87	6.8	6.8
8.0	418.07	424.80	424.80	6.7	6.7
7.0	418.07	424.72	424.72	6.7	6.7

Hydrographic Survey sounded by Hanson Professional Services Inc. July 01, 2014.

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	01 JUL 2014	425.8 (07:00)	424.2 (07:00)
		425.8 (14:00)	424.2 (14:00)

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.)

Survey Date: July 01, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

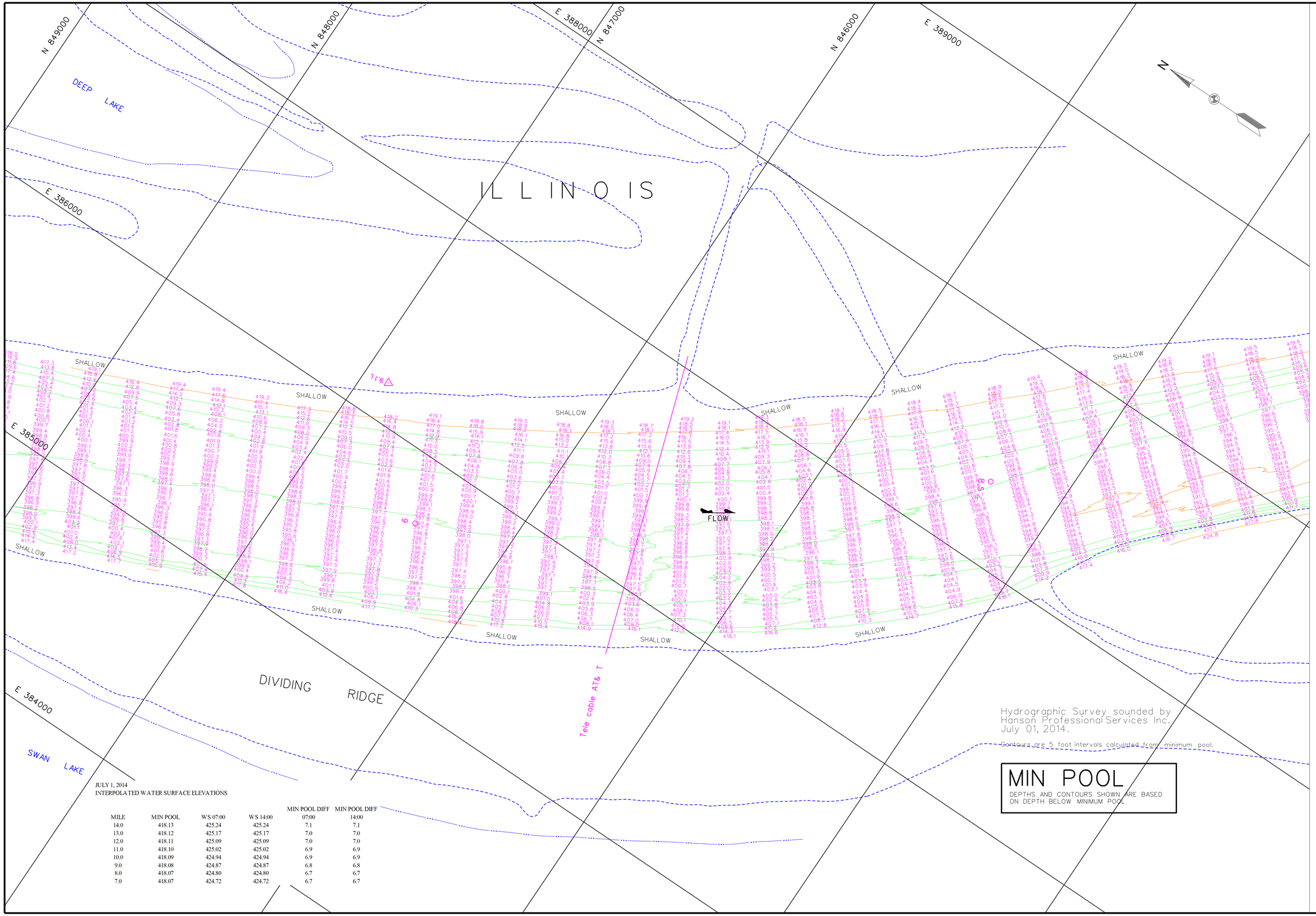
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

66



Hydrographic Survey sounded by Hanson Professional Services Inc. July 01, 2014.

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

JULY 1, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:00	WS 14:00	MIN POOL DIFF 07:00	MIN POOL DIFF 14:00
14.0	418.13	425.24	425.24	7.1	7.1
13.0	418.12	425.17	425.17	7.0	7.0
12.0	418.11	425.09	425.09	7.0	7.0
11.0	418.10	425.02	425.02	6.9	6.9
10.0	418.09	424.94	424.94	6.9	6.9
9.0	418.08	424.87	424.87	6.8	6.8
8.0	418.07	424.80	424.80	6.7	6.7
7.0	418.07	424.72	424.72	6.7	6.7

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	01 JUL 2014	425.8 (07:00)	424.2 (07:00)
		425.8 (14:00)	424.2 (14:00)

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.)

Survey Date: July 01, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

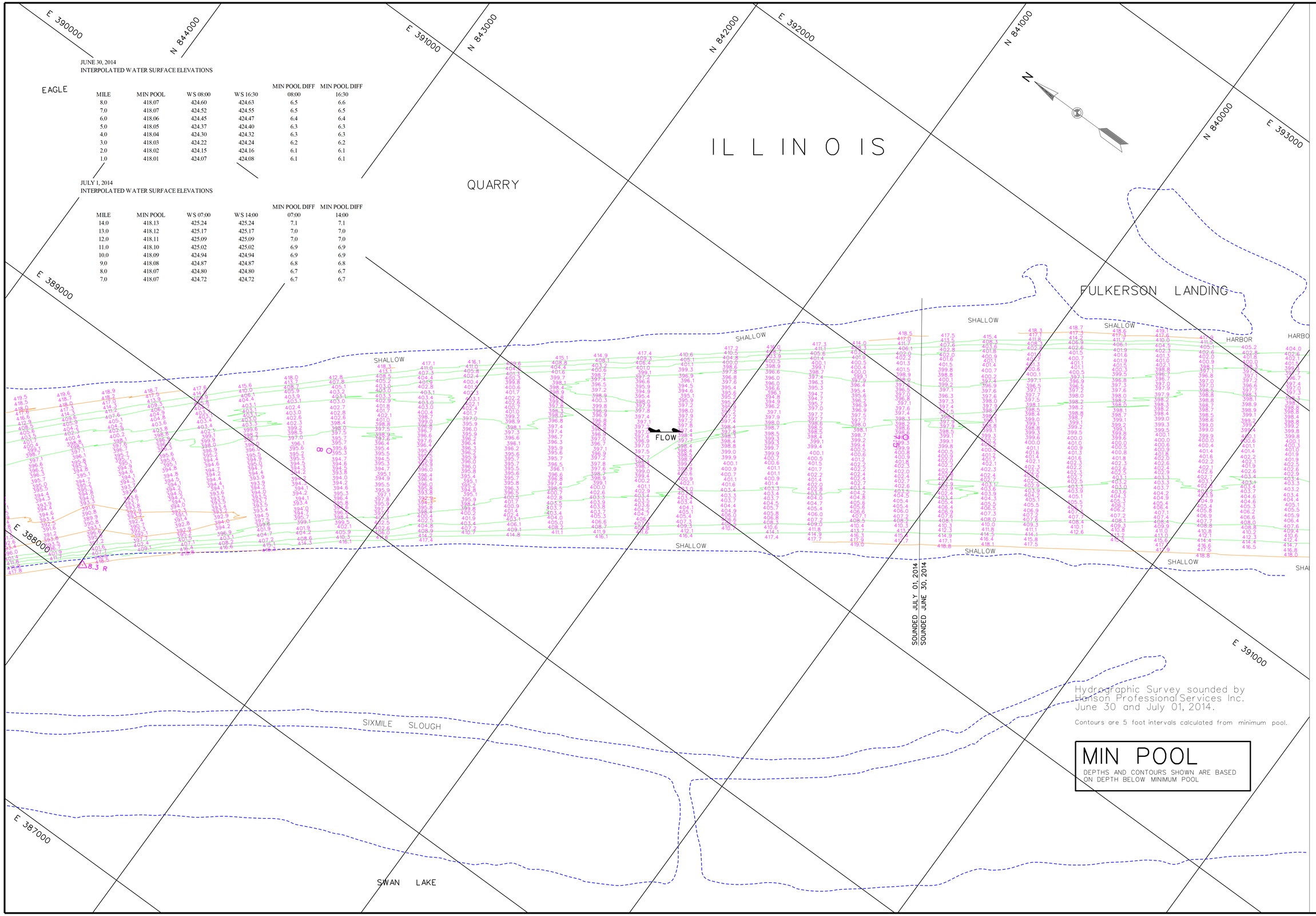
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER

67



JUNE 30, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:30	MIN POOL DIFF 08:00	MIN POOL DIFF 16:30
8.0	418.07	424.60	424.63	6.5	6.6
7.0	418.07	424.52	424.55	6.5	6.5
6.0	418.06	424.45	424.47	6.4	6.4
5.0	418.05	424.37	424.40	6.3	6.3
4.0	418.04	424.30	424.32	6.3	6.3
3.0	418.03	424.22	424.24	6.2	6.2
2.0	418.02	424.15	424.16	6.1	6.1
1.0	418.01	424.07	424.08	6.1	6.1

JULY 1, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 07:00	WS 14:00	MIN POOL DIFF 07:00	MIN POOL DIFF 14:00
14.0	418.13	425.24	425.24	7.1	7.1
13.0	418.12	425.17	425.17	7.0	7.0
12.0	418.11	425.09	425.09	7.0	7.0
11.0	418.10	425.02	425.02	6.9	6.9
10.0	418.09	424.94	424.94	6.9	6.9
9.0	418.08	424.87	424.87	6.8	6.8
8.0	418.07	424.80	424.80	6.7	6.7
7.0	418.07	424.72	424.72	6.7	6.7

Hydrographic Survey sounded by Hanson Professional Services Inc. June 30 and July 01, 2014.

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	30 JUN 2014	425.6 (08:00)	424.0 (08:00)
	01 JUL 2014	425.8 (07:00)	424.2 (07:00)

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.)

Survey Date: June 30, 2014 July 1, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

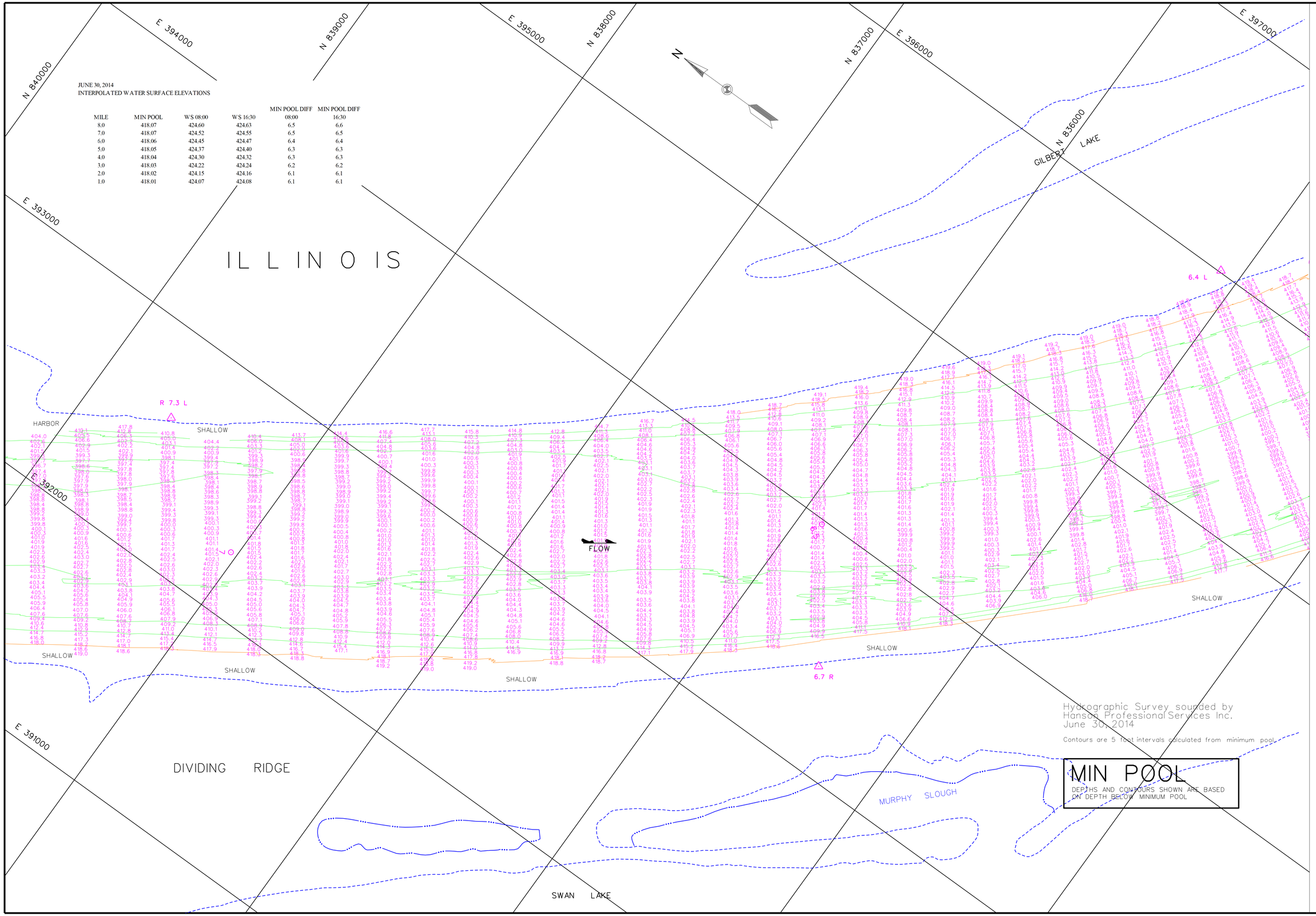
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
68



JUNE 30, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:30	MIN POOL DIFF 08:00	MIN POOL DIFF 16:30
8.0	418.07	424.60	424.63	6.5	6.6
7.0	418.07	424.52	424.55	6.5	6.5
6.0	418.06	424.45	424.47	6.4	6.4
5.0	418.05	424.37	424.40	6.3	6.3
4.0	418.04	424.30	424.32	6.3	6.3
3.0	418.03	424.22	424.24	6.2	6.2
2.0	418.02	424.15	424.16	6.1	6.1
1.0	418.01	424.07	424.08	6.1	6.1

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	30 JUN 2014	425.6 (08:00)	424.0 (08:00)
		425.7 (16:30)	424.0 (16:30)

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.)

Survey Date: June 30, 2014

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

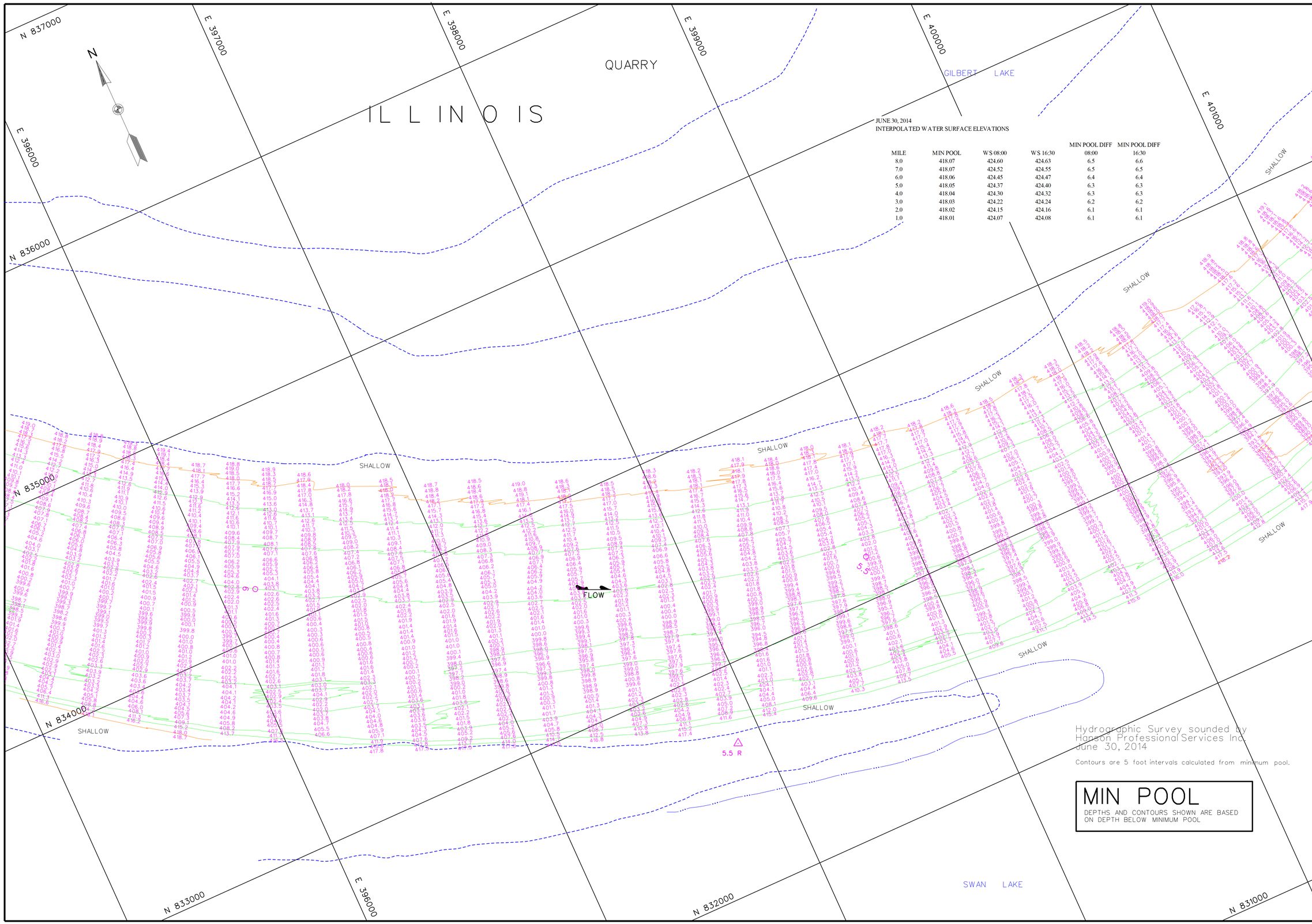
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 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 CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
69



JUNE 30, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:30	MIN POOL DIFF 08:00	MIN POOL DIFF 16:30
8.0	418.07	424.60	424.63	6.5	6.6
7.0	418.07	424.52	424.55	6.5	6.5
6.0	418.06	424.45	424.47	6.4	6.4
5.0	418.05	424.37	424.40	6.3	6.3
4.0	418.04	424.30	424.32	6.3	6.3
3.0	418.03	424.22	424.24	6.2	6.2
2.0	418.02	424.15	424.16	6.1	6.1
1.0	418.01	424.07	424.08	6.1	6.1

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN. POOL		418.2	418.0
DATE	30 JUN 2014	425.6 (08:00) 425.7 (16:30)	424.0 (08:00) 424.0 (16:30)

ELEVATIONS ARE REFERED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (34,000 C.F.S.)

Survey Date: June 30, 2014

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: 080_0001814.dgn

Plot date: September 30, 2014

Plot scale: 1" = 200'

Surveyed by: HANSON

Drawn by: JLK

Ckd by: JCL

Reviewed by:

APPROVED:

Chief, Geospatial Branch

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

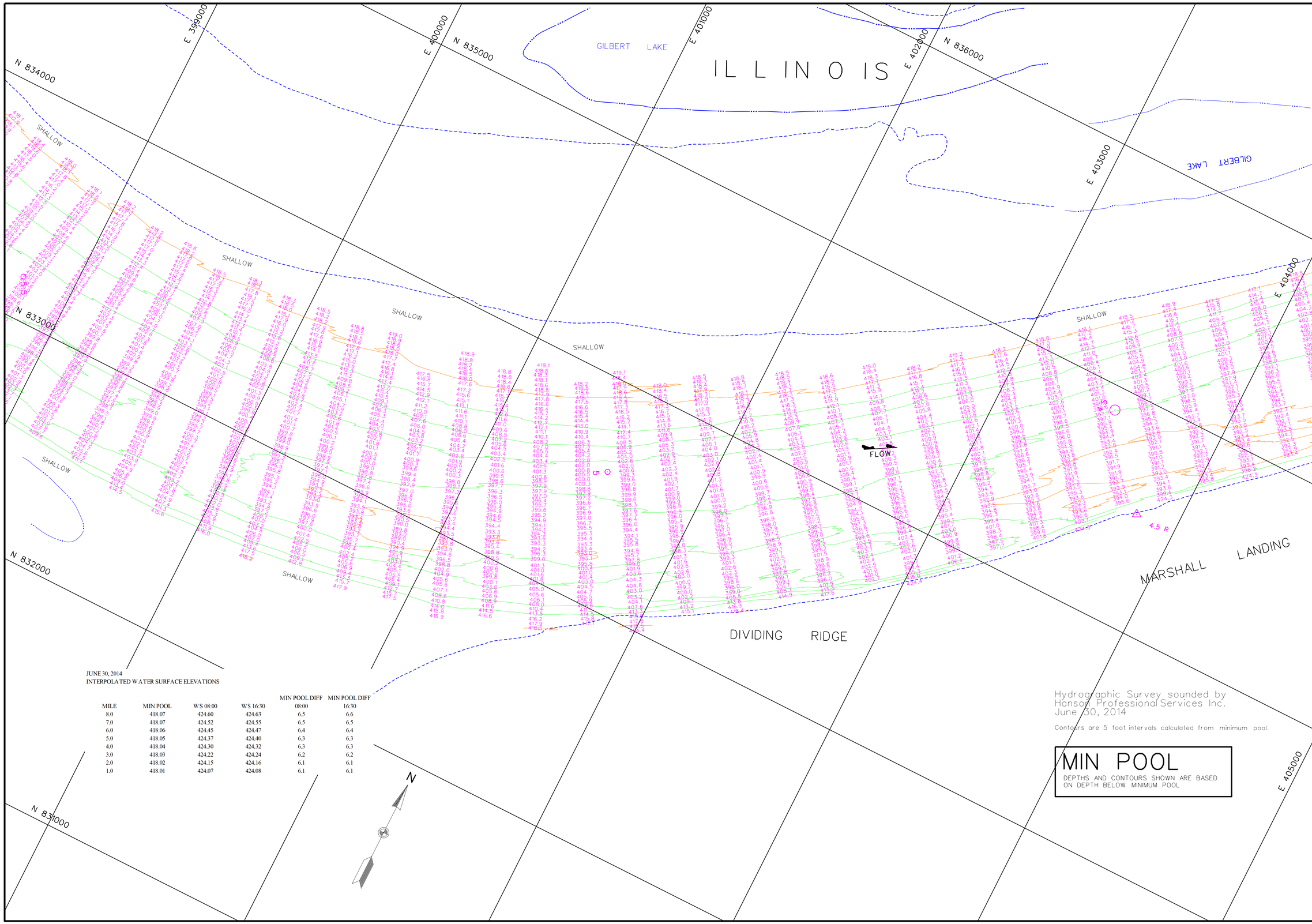
ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 200 400 FEET

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE SHOWN. THE RESULTS MAY NOT BE INDICATIVE OF THE GENERAL CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER

70



JUNE 30, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:30	MIN POOL DIFF 08:00	MIN POOL DIFF 16:30
8.0	418.07	424.60	424.63	6.5	6.6
7.0	418.07	424.52	424.55	6.5	6.5
6.0	418.06	424.45	424.47	6.4	6.4
5.0	418.05	424.37	424.40	6.3	6.3
4.0	418.04	424.30	424.32	6.3	6.3
3.0	418.03	424.22	424.24	6.2	6.2
2.0	418.02	424.15	424.16	6.1	6.1
1.0	418.01	424.07	424.08	6.1	6.1

Hydrographic Survey sounded by
Hanson Professional Services Inc.
June 30, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN. POOL		418.2	418.0
DATE	30 JUN 2014	425.6 (08:00)	424.0 (08:00)
		425.7 (16:30)	424.0 (16:30)

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.)

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED: Chief, Geospatial Branch
Survey Date: June 30, 2014
SUBMITTED: Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

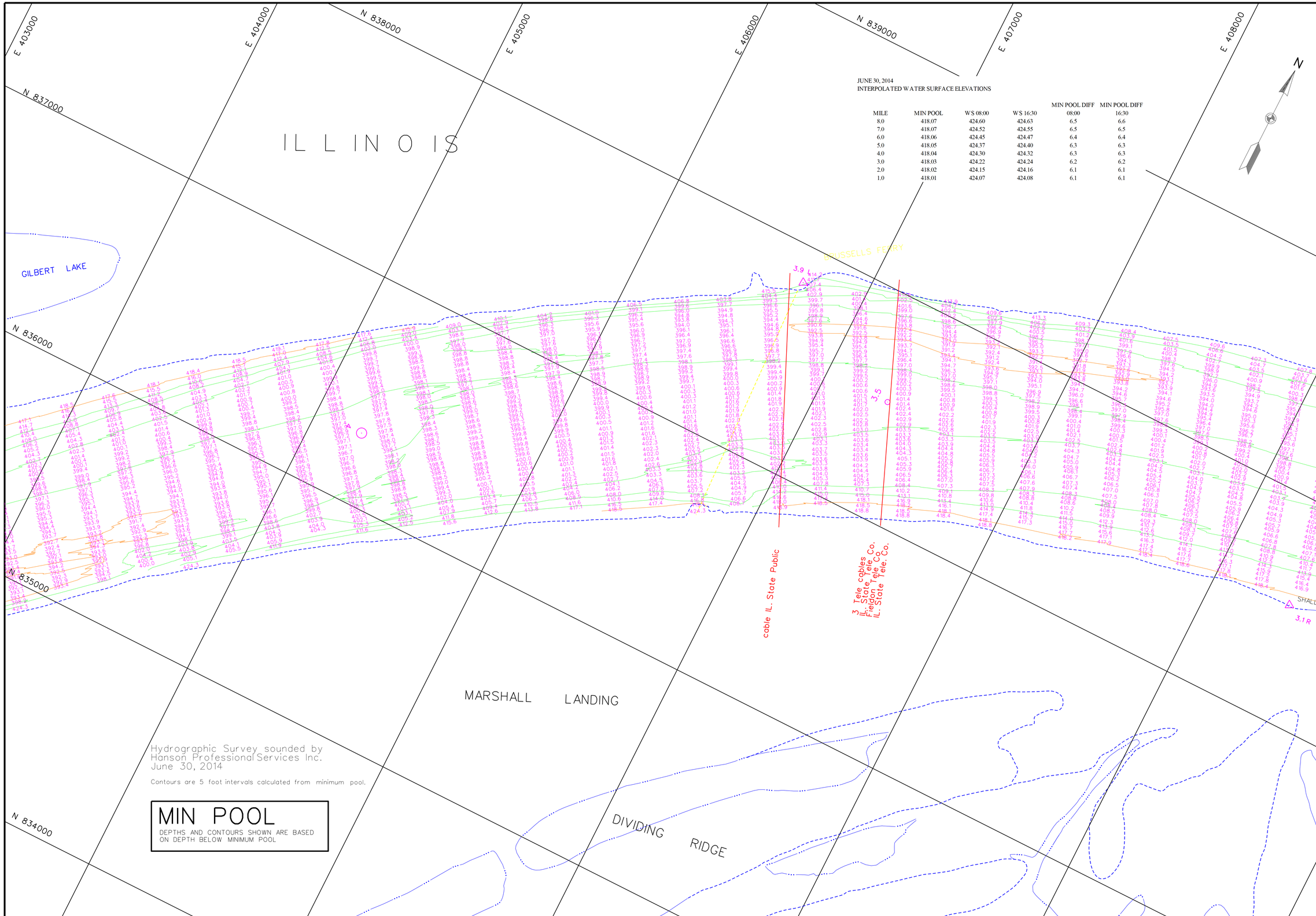
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 60 200
400 FEET 200 0 200

THE INFORMATION REPRESENTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE SHOWN AND IS BELIEVED TO BE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
71



JUNE 30, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:30	MIN POOL DIFF 08:00	MIN POOL DIFF 16:30
8.0	418.07	424.60	424.63	6.5	6.6
7.0	418.07	424.52	424.55	6.5	6.5
6.0	418.06	424.45	424.47	6.4	6.4
5.0	418.05	424.37	424.40	6.3	6.3
4.0	418.04	424.30	424.32	6.3	6.3
3.0	418.03	424.22	424.24	6.2	6.2
2.0	418.02	424.15	424.16	6.1	6.1
1.0	418.01	424.07	424.08	6.1	6.1

Hydrographic Survey sounded by
Hanson Professional Services Inc.
June 30, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	30 JUN 2014	425.6 (08:00)	424.0 (08:00)
		425.7 (16:30)	424.0 (16:30)

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.)

Survey Date: June 30, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

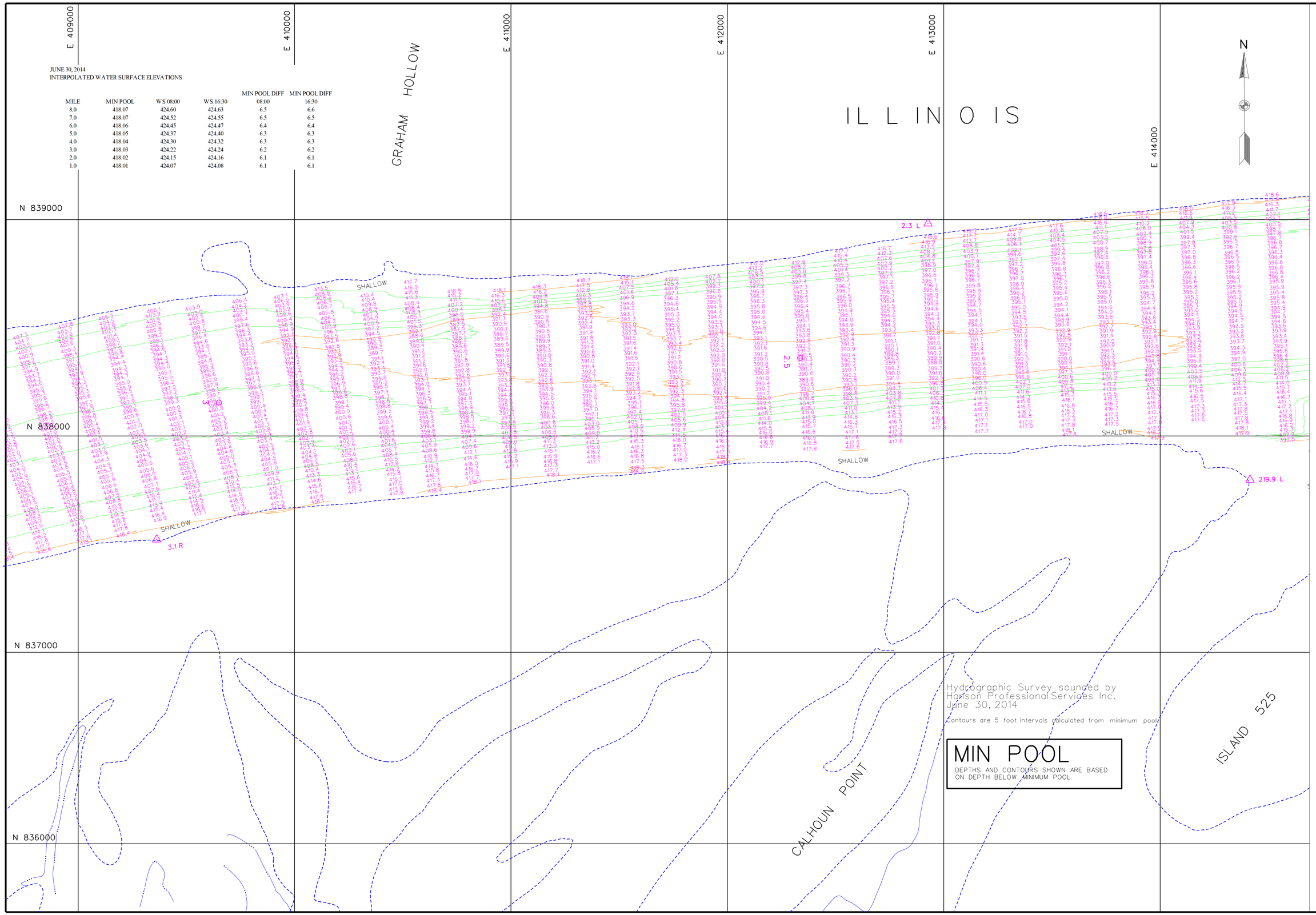
60 0 60 120 METERS
200 0 200 400 FEET

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 CONDITIONS EXISTING AT THAT TIME.

PLATE NUMBER
72

JUNE 30, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:30	MIN POOL DIFF 08:00	MIN POOL DIFF 16:30
8.0	418.07	424.60	424.63	6.5	6.6
7.0	418.07	424.52	424.55	6.5	6.5
6.0	418.06	424.45	424.47	6.4	6.4
5.0	418.05	424.37	424.40	6.3	6.3
4.0	418.04	424.30	424.32	6.3	6.3
3.0	418.03	424.22	424.24	6.2	6.2
2.0	418.02	424.15	424.16	6.1	6.1
1.0	418.01	424.07	424.08	6.1	6.1



US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN. POOL		418.2	418.0
DATE	30 JUN 2014	425.6 (08:00) 425.7 (16:30)	424.0 (08:00) 424.0 (16:30)

ELEVATIONS ARE REFERRED TO N.G.V.D. CONTOURS ARE BELOW 1996-97 LOW WATER REFERENCE PLANE (L.W.R.P.) (34.000 C.F.S.)

Survey Date: June 30, 2014

Surveyed by: HANSON
SUBMITTED:
Chief, Engr. Data Mngt. Sect.

Drawn by: JLK
Ckd by: JCL

Reviewed by:
File name: 080_0001814.dgn

APPROVED:
Plot date: September 30, 2014
Plot scale: 1" = 200'
Chief, Geospatial Branch

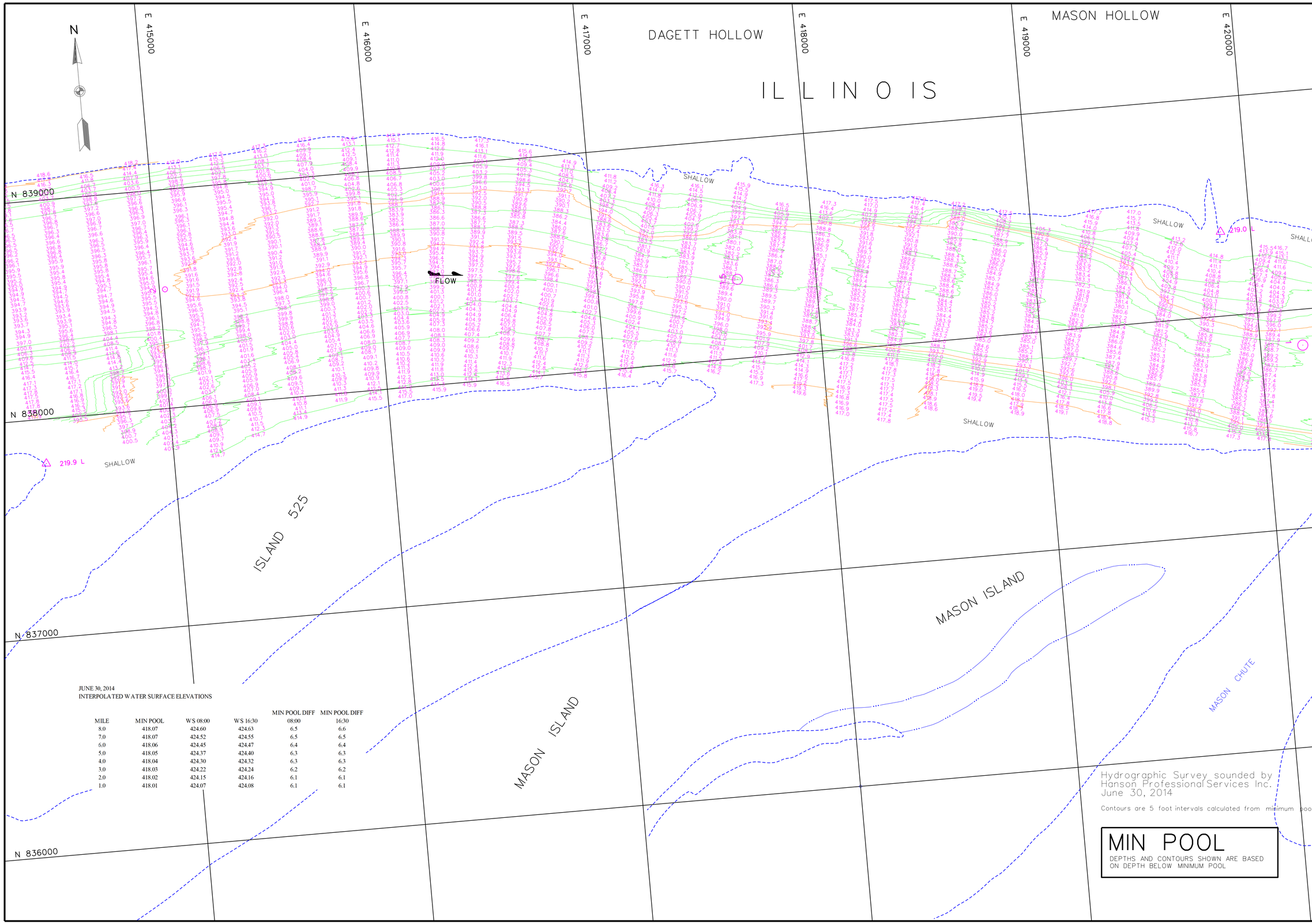
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 60 200
400 FEET 200 0

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESOURCE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

PLATE NUMBER
73



JUNE 30, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	WS 08:00	WS 16:30	MIN POOL DIFF 08:00	MIN POOL DIFF 16:30
8.0	418.07	424.60	424.63	6.5	6.6
7.0	418.07	424.52	424.55	6.5	6.5
6.0	418.06	424.45	424.47	6.4	6.4
5.0	418.05	424.37	424.40	6.3	6.3
4.0	418.04	424.30	424.32	6.3	6.3
3.0	418.03	424.22	424.24	6.2	6.2
2.0	418.02	424.15	424.16	6.1	6.1
1.0	418.01	424.07	424.08	6.1	6.1

Hydrographic Survey sounded by Hanson Professional Services Inc. June 30, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.		400.0	403.8
MILE		21.5	0.0
MIN POOL		418.2	418.0
DATE	30 JUN 2014	425.6 (08:00)	424.0 (08:00)
		425.7 (16:30)	424.0 (16:30)

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.)

Surveyed by: HANSON
Drawn by: JLK
Ckd by: JCL
Reviewed by:
APPROVED:
Chief, Geospatial Branch

Survey Date: June 30, 2014
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 080_0001814.dgn
Plot date: September 30, 2014
Plot scale: 1" = 200'

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

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

120 METERS 60 0 60
400 FEET 200 0 200

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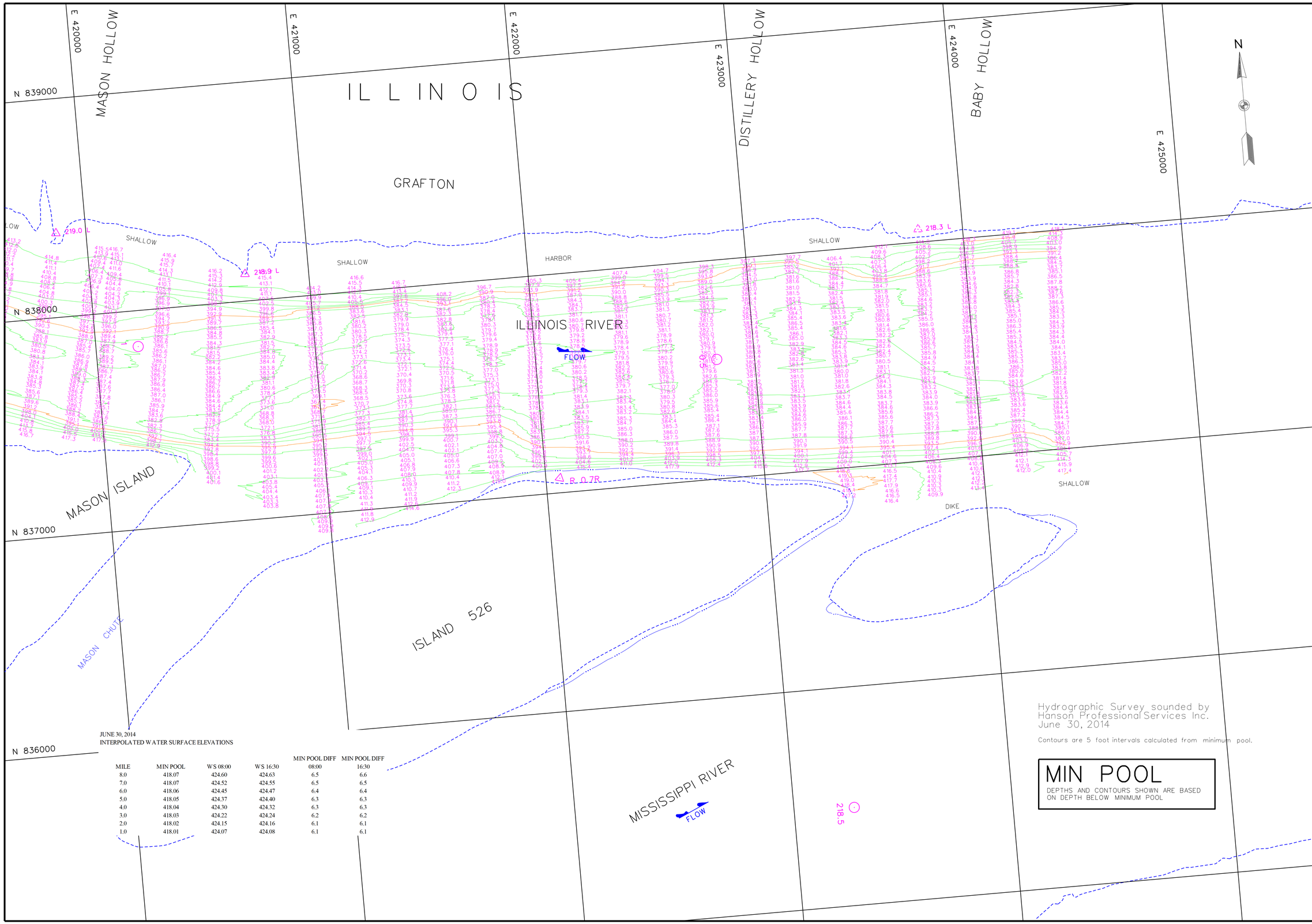
PLATE NUMBER
74



JUNE 30, 2014
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MIN POOL	W S 08:00	W S 16:30	MIN POOL DIFF 08:00	MIN POOL DIFF 16:30
8.0	418.07	424.60	424.63	6.5	6.6
7.0	418.07	424.52	424.55	6.5	6.5
6.0	418.06	424.45	424.47	6.4	6.4
5.0	418.05	424.37	424.40	6.3	6.3
4.0	418.04	424.30	424.32	6.3	6.3
3.0	418.03	424.22	424.24	6.2	6.2
2.0	418.02	424.15	424.16	6.1	6.1
1.0	418.01	424.07	424.08	6.1	6.1

Hydrographic Survey sounded by
Hanson Professional Services Inc.
June 30, 2014

Contours are 5 foot intervals calculated from minimum pool.

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

US Army Corps of Engineers
St. Louis District

GAGE RECORD

WATER SURFACE	HARDIN	GRAFTON
ZERO N.G.V.D.	400.0	403.8
MILE	21.5	0.0
MIN POOL	418.2	418.0
DATE	30 JUN 2014	425.6 (08:00) 424.0 (08:00) 425.7 (16:30) 424.0 (16:30)

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.)

Survey Date: June 30, 2014
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ST. LOUIS, MISSOURI

ILLINOIS RIVER
HYDROGRAPHIC SURVEY
RIVER MILES 80.0 - 0.0

60 0 60 120 METERS
200 0 200 400 FEET

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PLATE NUMBER
75