Comprehensive Survey

1. Sounded May 23 & 26, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

MIN POOL

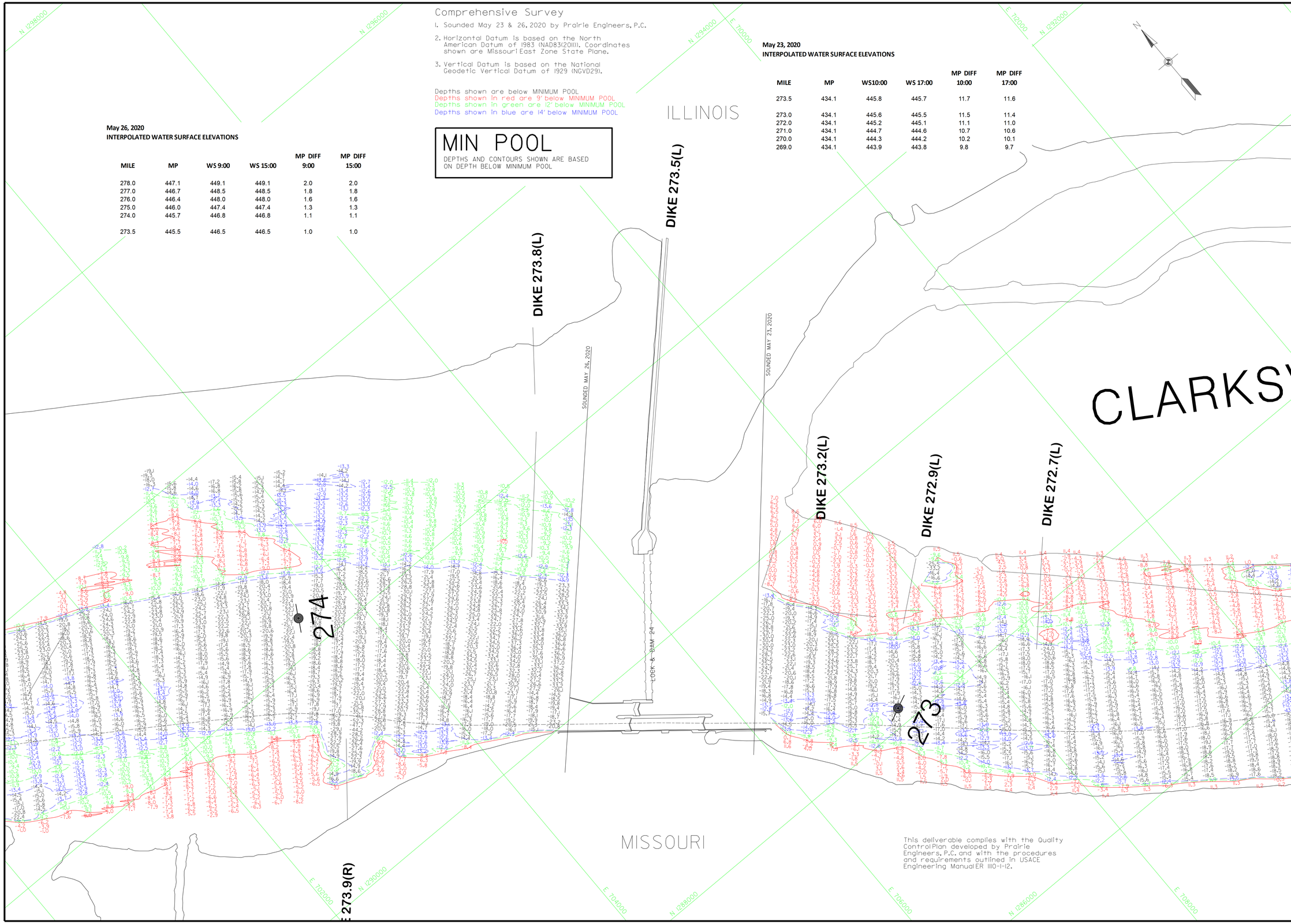
DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

May 26, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 9:00	WS 15:00	MP DIFF 9:00	MP DIFF 15:00
278.0	447.1	449.1	449.1	2.0	2.0
277.0	446.7	448.5	448.5	1.8	1.8
276.0	446.4	448.0	448.0	1.6	1.6
275.0	446.0	447.4	447.4	1.3	1.3
274.0	445.7	446.8	446.8	1.1	1.1
273.5	445.5	446.5	446.5	1.0	1.0

May 23, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS10:00	WS 17:00	MP DIFF 10:00	MP DIFF 17:00
273.5	434.1	445.8	445.7	11.7	11.6
273.0	434.1	445.6	445.5	11.5	11.4
272.0	434.1	445.2	445.1	11.1	11.0
271.0	434.1	444.7	444.6	10.7	10.6
270.0	434.1	444.3	444.2	10.2	10.1
269.0	434.1	443.9	443.8	9.8	9.7



This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

US Army Corps of Engineers
St. Louis District

GAGE RECORD

WATER SURFACE ZERO N.G.V.D.	LOUISIANA	L&D 24 (U)
MILE	437.3	420.8
	282.9	273.5
MIN POOL	448.8	445.5
26 MAY 2020	454.9 (09:00)	446.5 (09:00)
	454.9 (15:00)	446.5 (15:00)

Survey Dates May 23, 2020
May 26, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name:
Smt4_300_273.dgn
Plot date: 27 Jul 2020
Plot scale: 1"=400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: B.JB
Ckd by: DEF
Reviewed by:
APPROVED: Chief, DesignBranch

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

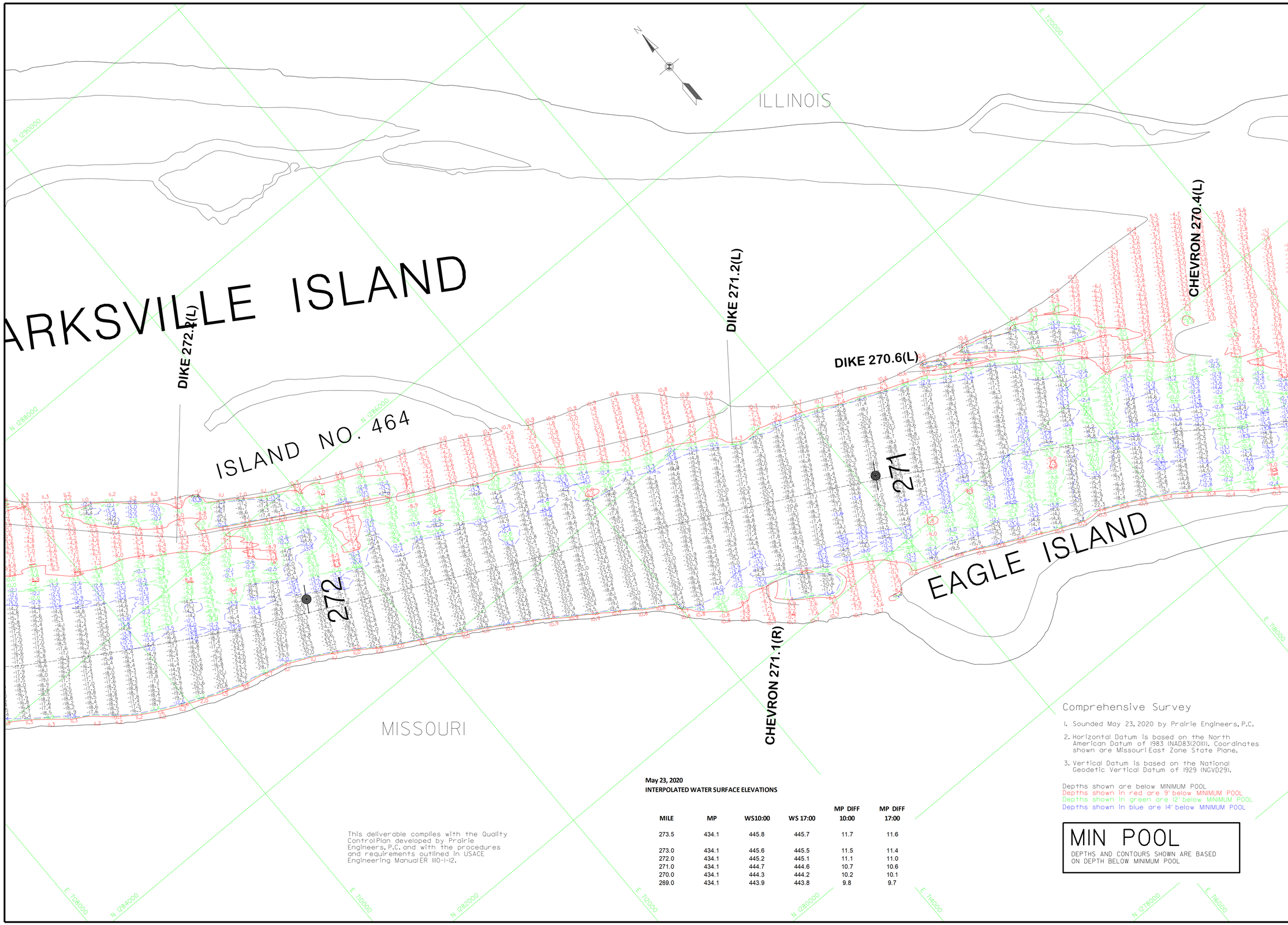
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

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

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

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
14



US Army Corps of Engineers
St. Louis District

ZERO N.G.V.D.	WATER SURFACE	GAGE RECORD L & D 24 (L)	RIPRAP
MILE		420.8	426.0
MIN POOL		273.5	265.0
		434.1	434.0
	23 MAY 2020	445.8 (10:00)	442.0 (10:00)
		445.7 (17:00)	442.0 (17:00)

Survey Dates: May 23, 2020

SUBMITTED:

Chief, Engr. Data Mngt. Sect.

File name: Sym1.23.1.dfmodsgn
Plot date: 7/20/2020
Plot scale: 1"=400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Checked by: DEF
Reviewed by:
APPROVED: Chief, GeospatialBranch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
0 120 400
0 120 400
THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE POSSIBLE CHANGES IN RIVER BOTTOM ELEVATIONS AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
15

Comprehensive Survey

1. Sounded May 23, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

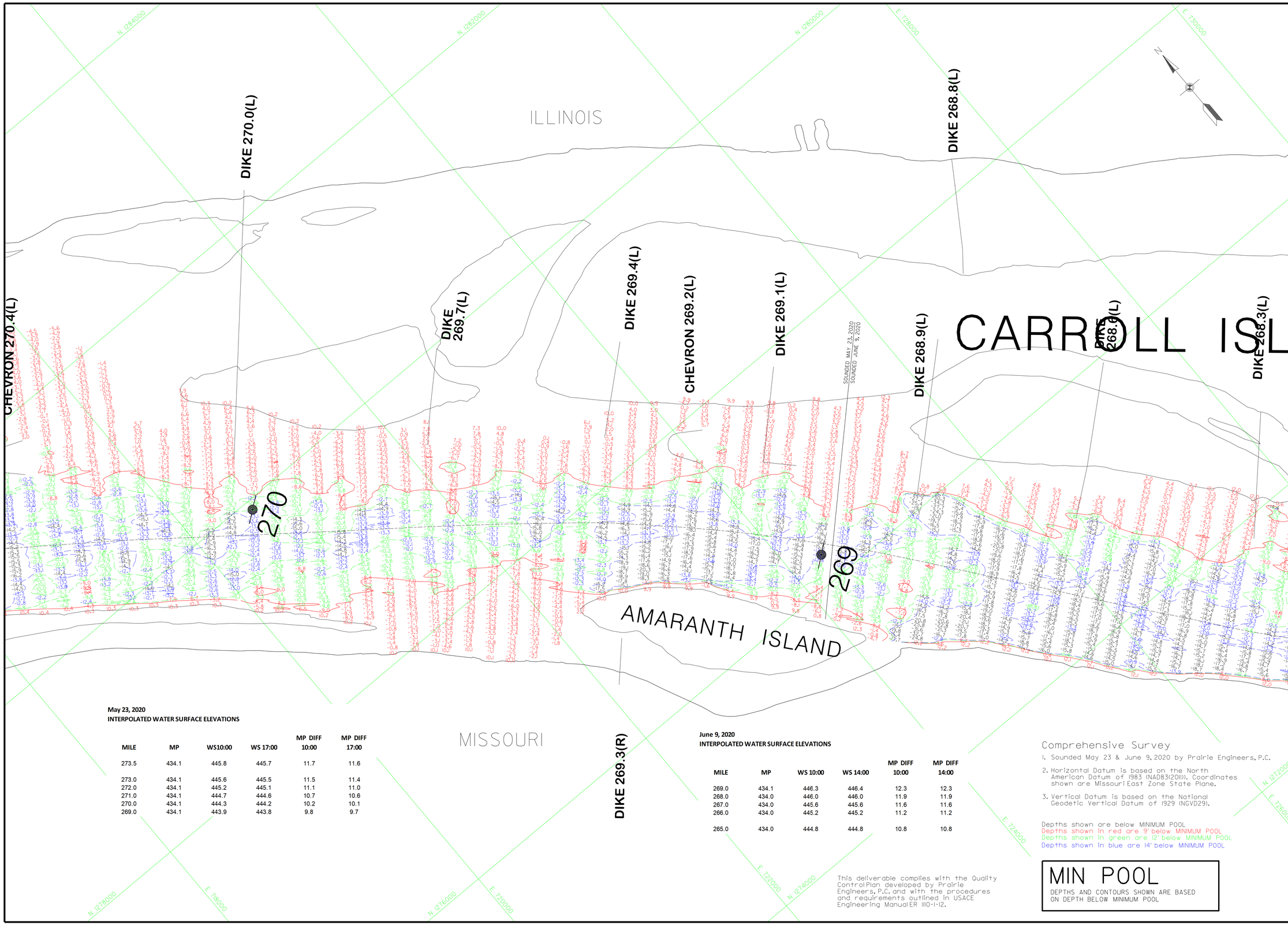
MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

May 23, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS10:00	WS 17:00	MP DIFF 10:00	MP DIFF 17:00
273.5	434.1	445.8	445.7	11.7	11.6
273.0	434.1	445.6	445.5	11.5	11.4
272.0	434.1	445.2	445.1	11.1	11.0
271.0	434.1	444.7	444.6	10.7	10.6
270.0	434.1	444.3	444.2	10.2	10.1
269.0	434.1	443.9	443.8	9.8	9.7



May 23, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS10:00	WS 17:00	MP DIFF 10:00	MP DIFF 17:00
273.5	434.1	445.8	445.7	11.7	11.6
273.0	434.1	445.6	445.5	11.5	11.4
272.0	434.1	445.2	445.1	11.1	11.0
271.0	434.1	444.7	444.6	10.7	10.6
270.0	434.1	444.3	444.2	10.2	10.1
269.0	434.1	443.9	443.8	9.8	9.7

June 9, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 10:00	WS 14:00	MP DIFF 10:00	MP DIFF 14:00
269.0	434.1	446.3	446.4	12.3	12.3
268.0	434.0	446.0	446.0	11.9	11.9
267.0	434.0	445.6	445.6	11.6	11.6
266.0	434.0	445.2	445.2	11.2	11.2
265.0	434.0	444.8	444.8	10.8	10.8

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

Comprehensive Survey

1. Sounded May 23 & June 9, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below 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	L & D 24 (L)	RIPRAP
ZERO N.G.V.D.	420.8	426.0
MILE	273.5	265.0
MIN POOL	434.1	434.0
23 MAY 2020	445.8 (10:00)	442.0 (10:00)
	445.7 (17:00)	442.0 (17:00)

Survey Dates: May 23, 2020
June 9, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File names:
5mile_273_241_mp.dgn
Plot date: 7/10/2020
Plot scale: 1"=400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED:
Chief, Geospatial Branch

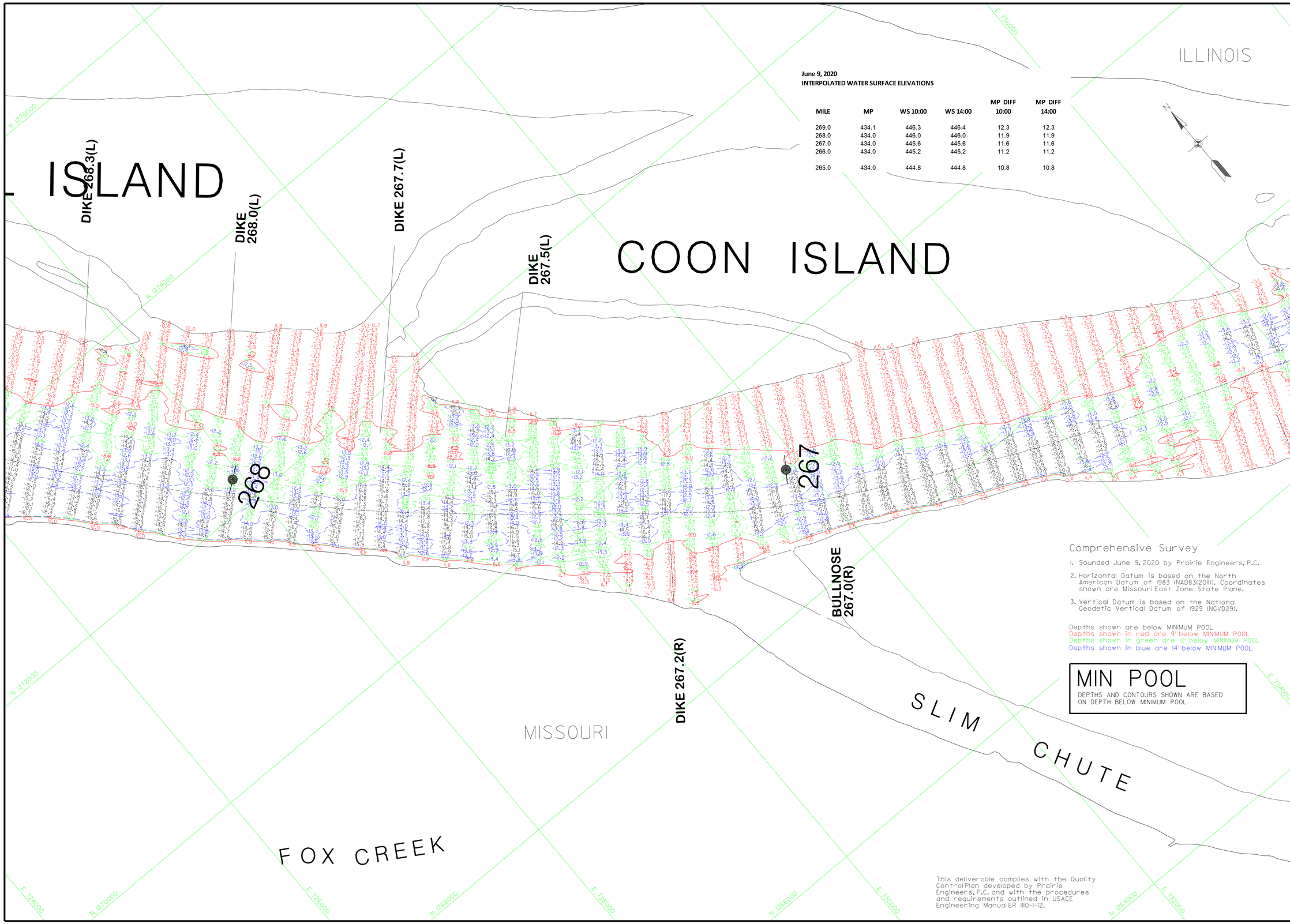
U.S. ARMY ENGINEER DIVISION
CORPS OF ENGINEERS
ST. LOUIS, MISSOURI

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE(S) SHOWN AND MAY NOT BE RELIABLE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
16



June 9, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 10:00	WS 14:00	MP DIFF 10:00	MP DIFF 14:00
269.0	434.1	446.3	446.4	12.3	12.3
268.0	434.0	446.0	446.0	11.9	11.9
267.0	434.0	445.6	445.6	11.6	11.6
266.0	434.0	445.2	445.2	11.2	11.2
265.0	434.0	444.8	444.8	10.8	10.8

Comprehensive Survey

1. Sounded June 9, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

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

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

US Army Corps of Engineers
St. Louis District

GAGE RECORD

ZERO N.G.V.D.	WATER SURFACE	L & D 24 (L)	RIPRAP
MILE		420.8	426.0
		273.5	265.0
MIN POOL		434.1	434.0
	09 JUN 2020	448.1 (10:00)	448.1 (10:00)
		448.1 (14:00)	448.1 (14:00)

Survey Date: June 9, 2020
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 5mi1.23.24L.mb.dgn
Plot date: 7 Jul 2020
Plot scale: 1"=400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS 120 0 120
800 FEET 400 0 400

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

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
17

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

June 9, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 10:00	WS 14:00	MP DIFF 10:00	MP DIFF 14:00
269.0	434.1	446.3	446.4	12.3	12.3
268.0	434.0	446.0	446.0	11.9	11.9
267.0	434.0	445.6	445.6	11.6	11.6
266.0	434.0	445.2	445.2	11.2	11.2
265.0	434.0	444.8	444.8	10.8	10.8

June 10, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

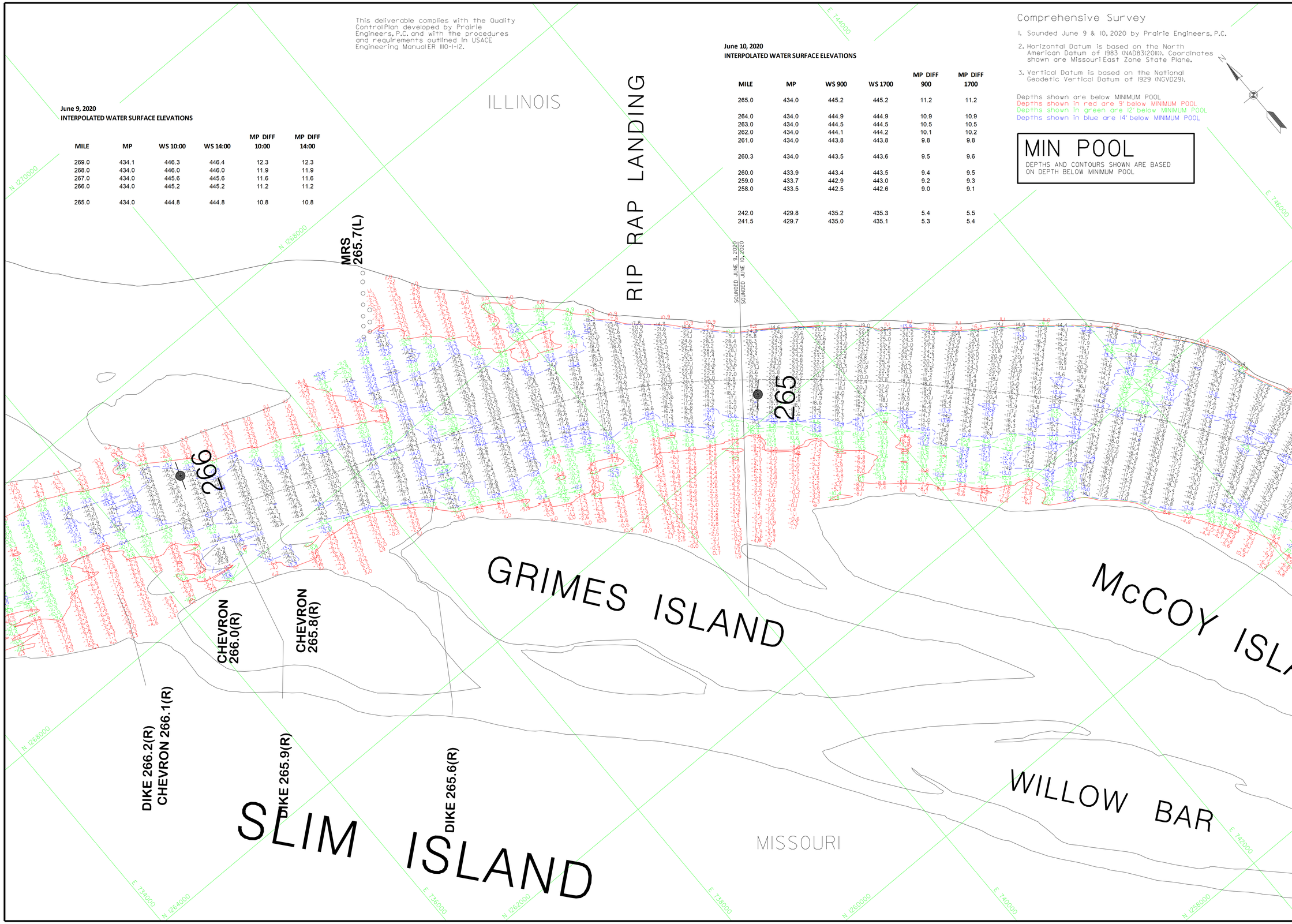
MILE	MP	WS 900	WS 1700	MP DIFF 900	MP DIFF 1700
265.0	434.0	445.2	445.2	11.2	11.2
264.0	434.0	444.9	444.9	10.9	10.9
263.0	434.0	444.5	444.5	10.5	10.5
262.0	434.0	444.1	444.2	10.1	10.2
261.0	434.0	443.8	443.8	9.8	9.8
260.3	434.0	443.5	443.6	9.5	9.6
260.0	433.9	443.4	443.5	9.4	9.5
259.0	433.7	442.9	443.0	9.2	9.3
258.0	433.5	442.5	442.6	9.0	9.1
242.0	429.8	435.2	435.3	5.4	5.5
241.5	429.7	435.0	435.1	5.3	5.4

Comprehensive Survey

1. Sounded June 9 & 10, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below 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

ZERO N.G.V.D.	WATER SURFACE	L & D 24 (L)	RIPRAP
MILE		420.8	426.0
		273.5	265.0
MIN POOL		434.1	434.0
	9 JUN 2020	448.1(10:00)	444.8 (10:00)
		448.1(14:00)	444.8 (14:00)

Survey Dates: June 9, 2020
June 10, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name:
9mis273.24lmp.dgn
Project: 9mis273.24lmp
Plot scale: 1"=400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

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

THE INFORMATION REPRESENTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE BY THE CORPS OF ENGINEERS AND IS BELIEVED TO BE AS ACCURATE AS ANY OF THE GENERAL CONDITIONS EXISTING AT THAT TIME.

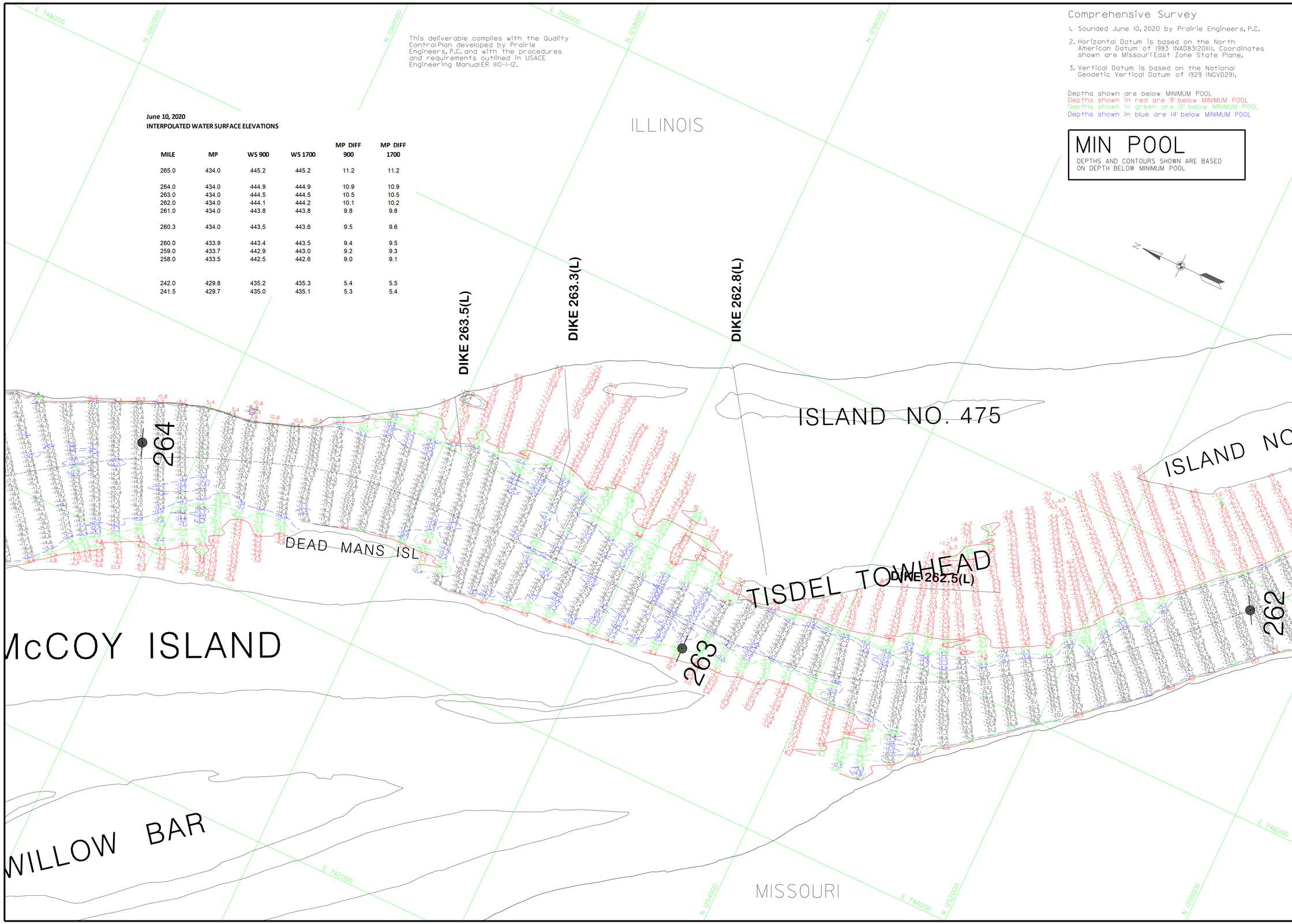
COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
18

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

June 10, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 900	WS 1700	MP DIFF 900	MP DIFF 1700
265.0	434.0	445.2	445.2	11.2	11.2
264.0	434.0	444.9	444.9	10.9	10.9
263.0	434.0	444.5	444.5	10.5	10.5
262.0	434.0	444.1	444.2	10.1	10.2
261.0	434.0	443.8	443.8	9.8	9.8
260.3	434.0	443.5	443.6	9.5	9.6
260.0	433.9	443.4	443.5	9.4	9.5
259.0	433.7	442.9	443.0	9.2	9.3
258.0	433.5	442.5	442.6	9.0	9.1
242.0	429.8	435.2	435.3	5.4	5.5
241.5	429.7	435.0	435.1	5.3	5.4



Comprehensive Survey

1. Sounded June 10, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below 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

ZERO N.G.V.D.	WATER SURFACE	RIPRAP	MOSIER	L & D 25 (U)
MILE		426.0	400.0	407.0
		265.0	260.3	24.5
MIN POOL		434.0	434.0	429.7
	10 JUN 2020	445.2 (09:00)	443.5 (09:00)	435.0 (09:00)
		445.2 (17:00)	443.6 (17:00)	435.1 (17:00)

Survey Date: June 10, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name:
Sn13_273_246_rev.dgn
Plot date: 7-10-2020
Plot scale: 1:400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED: Chief, Geospatial Branch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS 120 0 120 400 800 FEET

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE SHOWN. THE RESULTS MAY BE DIFFERENT AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
19

June 10, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 900	WS 1700	MP DIFF 900	MP DIFF 1700
265.0	434.0	445.2	445.2	11.2	11.2
264.0	434.0	444.9	444.9	10.9	10.9
263.0	434.0	444.5	444.5	10.5	10.5
262.0	434.0	444.1	444.2	10.1	10.2
261.0	434.0	443.8	443.8	9.8	9.8
260.3	434.0	443.5	443.6	9.5	9.6
260.0	433.9	443.4	443.5	9.4	9.5
259.0	433.7	442.9	443.0	9.2	9.3
258.0	433.5	442.5	442.6	9.0	9.1
242.0	429.8	435.2	435.3	5.4	5.5
241.5	429.7	435.0	435.1	5.3	5.4

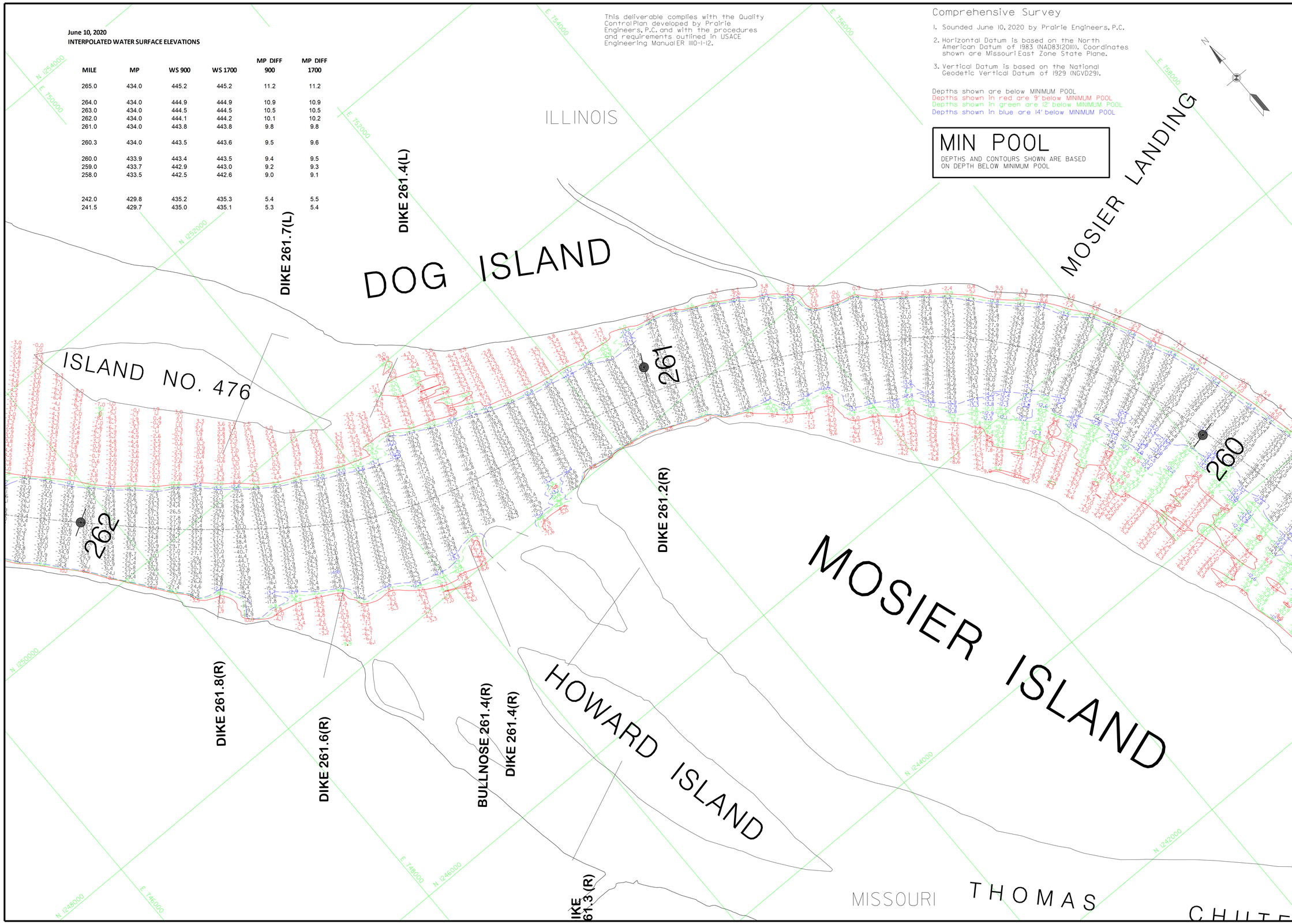
This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

Comprehensive Survey

1. Sounded June 10, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below 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	RIPRAP	MOSIER	L & D 25 (U)
ZERO N.G.V.D.		426.0	400.0	407.0
MILE		265.0	260.3	24.5
MIN POOL		434.0	434.0	429.7
	10 JUN 2020	445.2 (09:00)	443.5 (09:00)	435.0 (09:00)
		445.2 (17:00)	443.6 (17:00)	435.1(17:00)

Survey Dates: June 10, 2020
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File names
SH20_273_241.mxdgn
Plot date: June 16, 2020
Plot scale: 1:400

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS 120 0 120 400 0 400 800 FEET

THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE SHOWN. THE RESULTS ARE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
20

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

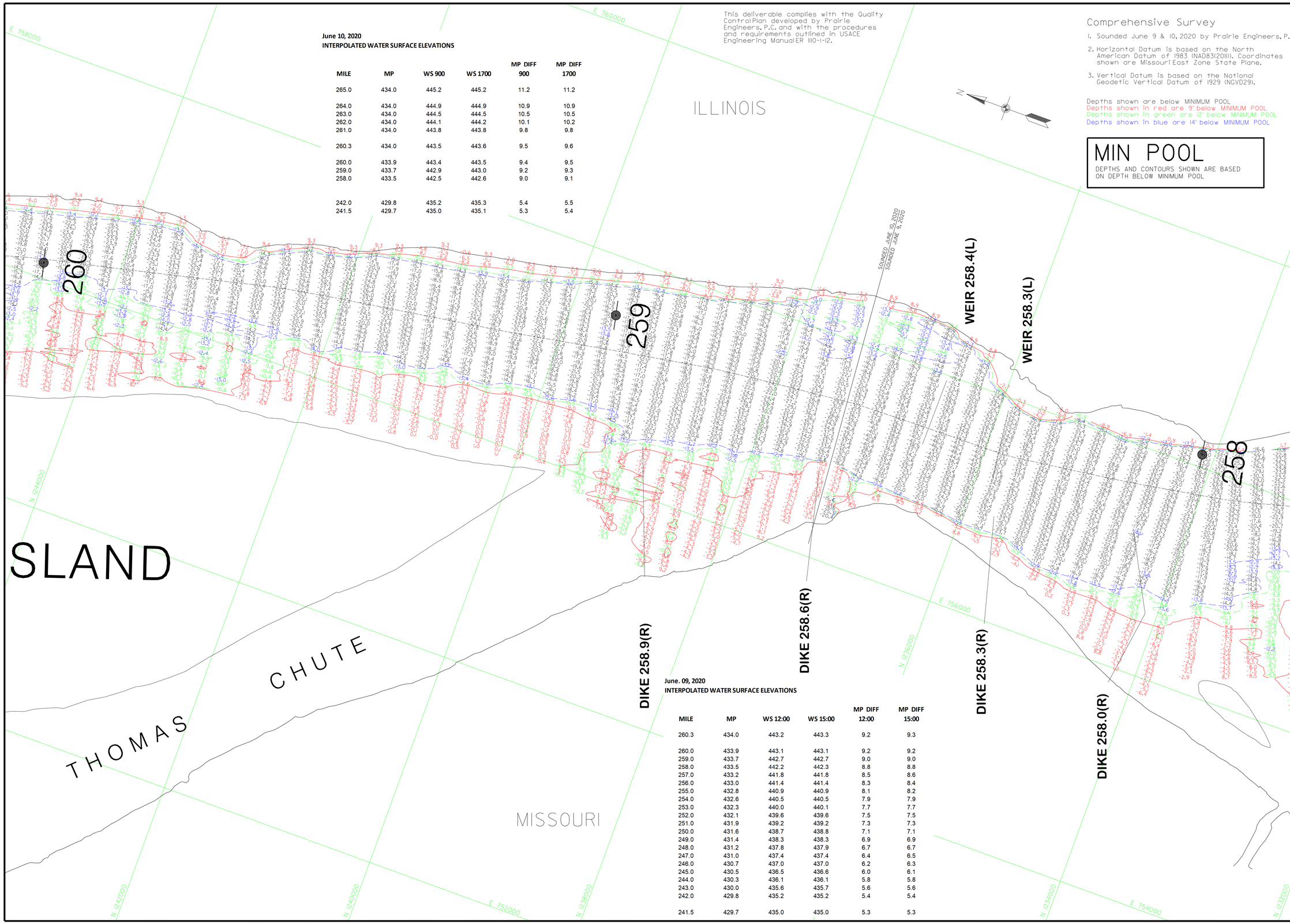
Comprehensive Survey

1. Sounded June 9 & 10, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL



June 10, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 900	WS 1700	MP DIFF 900	MP DIFF 1700
265.0	434.0	445.2	445.2	11.2	11.2
264.0	434.0	444.9	444.9	10.9	10.9
263.0	434.0	444.5	444.5	10.5	10.5
262.0	434.0	444.1	444.2	10.1	10.2
261.0	434.0	443.8	443.8	9.8	9.8
260.3	434.0	443.5	443.6	9.5	9.6
260.0	433.9	443.4	443.5	9.4	9.5
259.0	433.7	442.9	443.0	9.2	9.3
258.0	433.5	442.5	442.6	9.0	9.1
242.0	429.8	435.2	435.3	5.4	5.5
241.5	429.7	435.0	435.1	5.3	5.4

June. 09, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 12:00	WS 15:00	MP DIFF 12:00	MP DIFF 15:00
260.3	434.0	443.2	443.3	9.2	9.3
260.0	433.9	443.1	443.1	9.2	9.2
259.0	433.7	442.7	442.7	9.0	9.0
258.0	433.5	442.2	442.3	8.8	8.8
257.0	433.2	441.8	441.8	8.5	8.6
256.0	433.0	441.4	441.4	8.3	8.4
255.0	432.8	440.9	440.9	8.1	8.2
254.0	432.6	440.5	440.5	7.9	7.9
253.0	432.3	440.0	440.1	7.7	7.7
252.0	432.1	439.6	439.6	7.5	7.5
251.0	431.9	439.2	439.2	7.3	7.3
250.0	431.6	438.7	438.8	7.1	7.1
249.0	431.4	438.3	438.3	6.9	6.9
248.0	431.2	437.8	437.9	6.7	6.7
247.0	431.0	437.4	437.4	6.4	6.5
246.0	430.7	437.0	437.0	6.2	6.3
245.0	430.5	436.5	436.6	6.0	6.1
244.0	430.3	436.1	436.1	5.8	5.8
243.0	430.0	435.6	435.7	5.6	5.6
242.0	429.8	435.2	435.2	5.4	5.4
241.5	429.7	435.0	435.0	5.3	5.3

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	RIPRAP	MOSIER	L & D 25 (U)
ZERO N.G.V.D.		426.0	400.0	407.0
MILE		265.0	260.3	241.5
MIN POOL		434.0	434.0	429.7
	10 JUN 2020	445.2 (09:00)	443.5 (09:00)	435.0 (09:00)
		445.2 (17:00)	443.6 (17:00)	435.1 (17:00)

Survey Date: June 9, 2020
June 10, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name:
SH21_213_246_depdgn
Plot date: 7-7-2020
Plot scale: 1"=400'

Surveyed by:
PRAIRIE ENGINEERS

Drawn by: Ckd by:
BJB DEF

Reviewed by:

APPROVED:
Chief, Geospatial Branch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
0 120 400
0 120 400

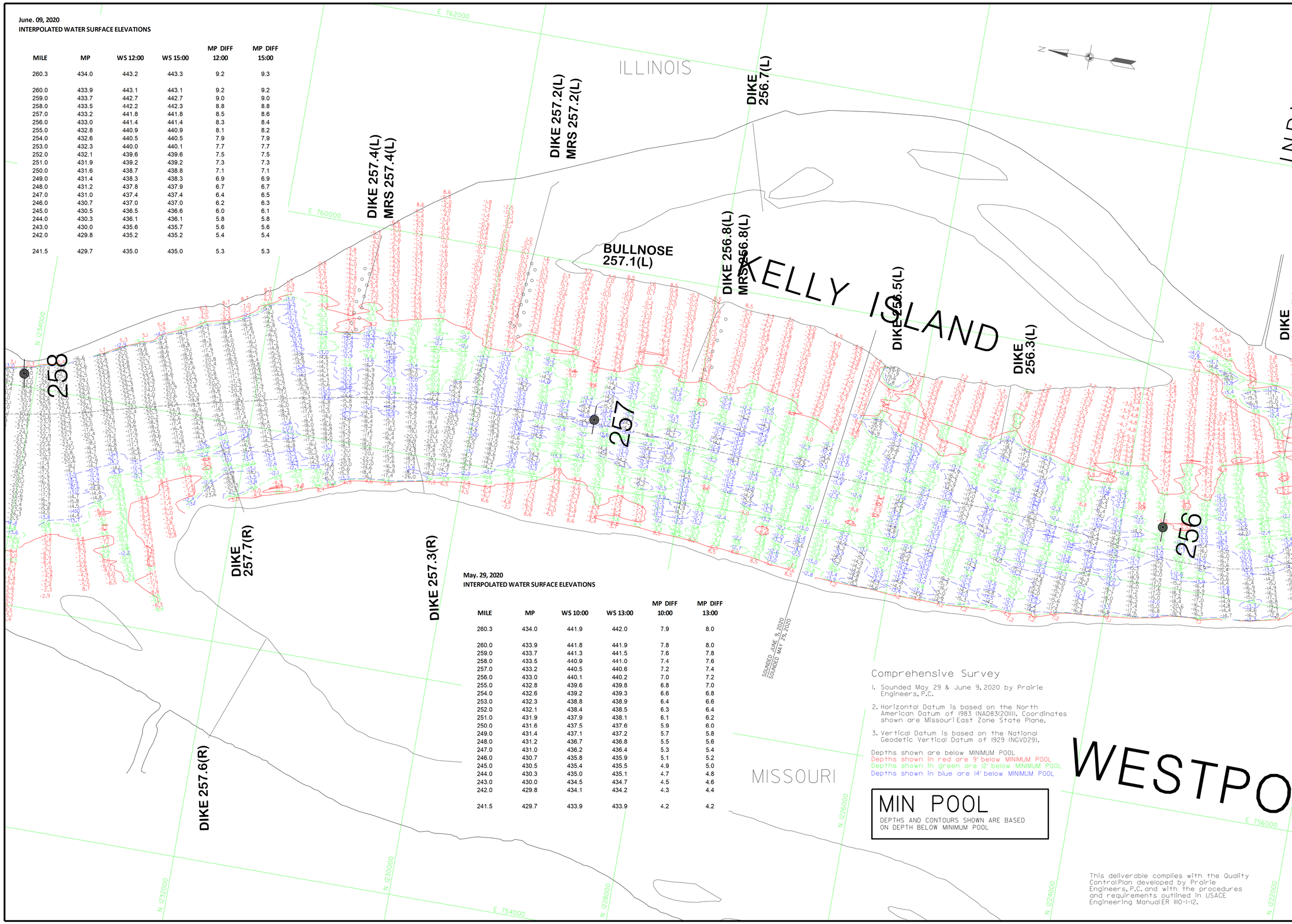
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE AT THE TIME AND UNDER THE CONDITIONS NOTED ON THIS MAP AND MAY NOT BE REPRESENTATIVE OF OTHER TIMES AND CONDITIONS. EXISTING AT THAT TIME.

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
21

June. 09, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 12:00	WS 15:00	MP DIFF 12:00	MP DIFF 15:00
260.3	434.0	443.2	443.3	9.2	9.3
260.0	433.9	443.1	443.1	9.2	9.2
259.0	433.7	442.7	442.7	9.0	9.0
258.0	433.5	442.2	442.3	8.8	8.8
257.0	433.2	441.8	441.8	8.5	8.6
256.0	433.0	441.4	441.4	8.3	8.4
255.0	432.8	440.9	440.9	8.1	8.2
254.0	432.6	440.5	440.5	7.9	7.9
253.0	432.3	440.0	440.1	7.7	7.7
252.0	432.1	439.6	439.6	7.5	7.5
251.0	431.9	439.2	439.2	7.3	7.3
250.0	431.6	438.7	438.8	7.1	7.1
249.0	431.4	438.3	438.3	6.9	6.9
248.0	431.2	437.8	437.9	6.7	6.7
247.0	431.0	437.4	437.4	6.4	6.5
246.0	430.7	437.0	437.0	6.2	6.3
245.0	430.5	436.5	436.6	6.0	6.1
244.0	430.3	436.1	436.1	5.8	5.8
243.0	430.0	435.6	435.7	5.6	5.6
242.0	429.8	435.2	435.2	5.4	5.4
241.5	429.7	435.0	435.0	5.3	5.3



May. 29, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 10:00	WS 13:00	MP DIFF 10:00	MP DIFF 13:00
260.3	434.0	441.9	442.0	7.9	8.0
260.0	433.9	441.8	441.9	7.8	8.0
259.0	433.7	441.3	441.5	7.6	7.8
258.0	433.5	440.9	441.0	7.4	7.6
257.0	433.2	440.5	440.6	7.2	7.4
256.0	433.0	440.1	440.2	7.0	7.2
255.0	432.8	439.6	439.8	6.8	7.0
254.0	432.6	439.2	439.3	6.6	6.8
253.0	432.3	438.8	438.9	6.4	6.6
252.0	432.1	438.4	438.5	6.3	6.4
251.0	431.9	437.9	438.1	6.1	6.2
250.0	431.6	437.5	437.6	5.9	6.0
249.0	431.4	437.1	437.2	5.7	5.8
248.0	431.2	436.7	436.8	5.5	5.6
247.0	431.0	436.2	436.4	5.3	5.4
246.0	430.7	435.8	435.9	5.1	5.2
245.0	430.5	435.4	435.5	4.9	5.0
244.0	430.3	435.0	435.1	4.7	4.8
243.0	430.0	434.5	434.7	4.5	4.6
242.0	429.8	434.1	434.2	4.3	4.4
241.5	429.7	433.9	433.9	4.2	4.2

Comprehensive Survey

1. Sounded May 29 & June 9, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

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

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

US Army Corps of Engineers
St. Louis District

GAGE RECORD		
WATER SURFACE	MOSER	L & D 25 (U)
ZERO N.G.V.D.	400.0	407.0
MILE	260.3	240.5
MIN POOL	434.0	429.7
09 JUN 2020	443.2 (12:00)	435.0 (12:00)
	443.3 (15:00)	435.0 (15:00)

Survey Dates: May 29, 2020
June 9, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name:
sn122-273-241.mbcdgn
Plot date: 7/1/2020
Plot scale: 1"=400'

Surveyed by:
PRAIRIE ENGINEERS

Drawn by: BJB
Ckd by: DEF
Reviewed by:

APPROVED:
Chief, Geospatial Branch

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

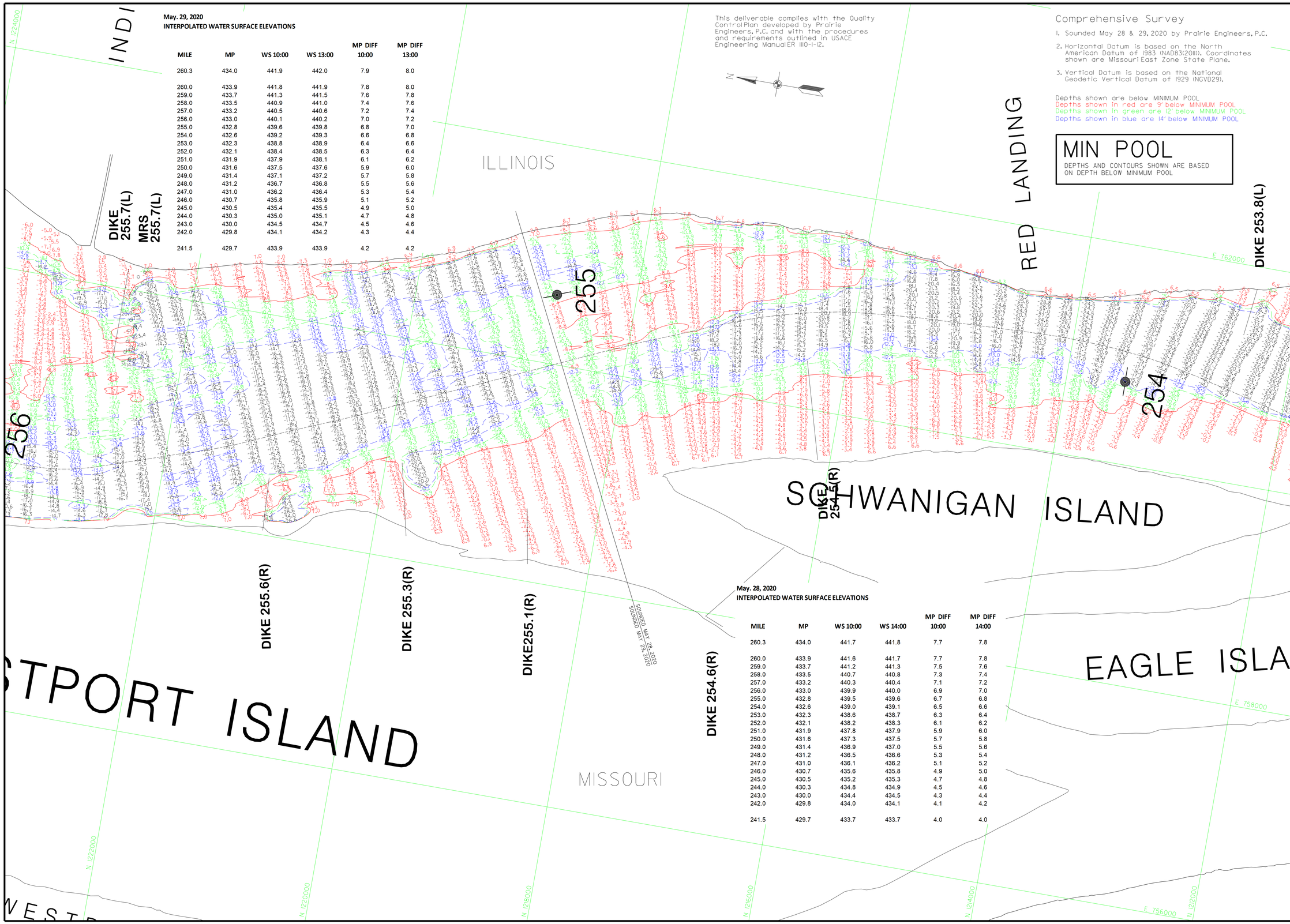
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
120 0 120 400 0 400

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

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
22



May. 29, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 10:00	WS 13:00	MP DIFF 10:00	MP DIFF 13:00
260.3	434.0	441.9	442.0	7.9	8.0
260.0	433.9	441.8	441.9	7.8	8.0
259.0	433.7	441.3	441.5	7.6	7.8
258.0	433.5	440.9	441.0	7.4	7.6
257.0	433.2	440.5	440.6	7.2	7.4
256.0	433.0	440.1	440.2	7.0	7.2
255.0	432.8	439.6	439.8	6.8	7.0
254.0	432.6	439.2	439.3	6.6	6.8
253.0	432.3	438.8	438.9	6.4	6.6
252.0	432.1	438.4	438.5	6.3	6.4
251.0	431.9	437.9	438.1	6.1	6.2
250.0	431.6	437.5	437.6	5.9	6.0
249.0	431.4	437.1	437.2	5.7	5.8
248.0	431.2	436.7	436.8	5.5	5.6
247.0	431.0	436.2	436.4	5.3	5.4
246.0	430.7	435.8	435.9	5.1	5.2
245.0	430.5	435.4	435.5	4.9	5.0
244.0	430.3	435.0	435.1	4.7	4.8
243.0	430.0	434.5	434.7	4.5	4.6
242.0	429.8	434.1	434.2	4.3	4.4
241.5	429.7	433.9	433.9	4.2	4.2

May. 28, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 10:00	WS 14:00	MP DIFF 10:00	MP DIFF 14:00
260.3	434.0	441.7	441.8	7.7	7.8
260.0	433.9	441.6	441.7	7.7	7.8
259.0	433.7	441.2	441.3	7.5	7.6
258.0	433.5	440.7	440.8	7.3	7.4
257.0	433.2	440.3	440.4	7.1	7.2
256.0	433.0	439.9	440.0	6.9	7.0
255.0	432.8	439.5	439.6	6.7	6.8
254.0	432.6	439.0	439.1	6.5	6.6
253.0	432.3	438.6	438.7	6.3	6.4
252.0	432.1	438.2	438.3	6.1	6.2
251.0	431.9	437.8	437.9	5.9	6.0
250.0	431.6	437.3	437.5	5.7	5.8
249.0	431.4	436.9	437.0	5.5	5.6
248.0	431.2	436.5	436.6	5.3	5.4
247.0	431.0	436.1	436.2	5.1	5.2
246.0	430.7	435.6	435.8	4.9	5.0
245.0	430.5	435.2	435.3	4.7	4.8
244.0	430.3	434.8	434.9	4.5	4.6
243.0	430.0	434.4	434.5	4.3	4.4
242.0	429.8	434.0	434.1	4.1	4.2
241.5	429.7	433.7	433.7	4.0	4.0

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

Comprehensive Survey

1. Sounded May 28 & 29, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below 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	MOSIER	L & D 25 (U)	
ZERO N.G.V.D.	400.0	407.0	
MILE	260.3	246.5	
MIN POOL	434.0	429.7	
28 MAY 2020	446.7 (10:00)	433.7 (10:00)	
28 MAY 2020	446.8 (14:00)	433.7 (14:00)	

Survey Dates May 28, 2020 May 29, 2020
SUBMITTED: Chief, Engr. Data Mngt. Sect.
File names: 5m23.23.24i.mbcdgn 5m23.23.25i.mbcdgn
Plot scale: 1"=400'
Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED: Chief, Geospatial Branch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS 120 0 120 400 800 FEET

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS PERFORMED BY PRAIRIE ENGINEERS, P.C. AND IS ACCURATE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
23

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

May. 28, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

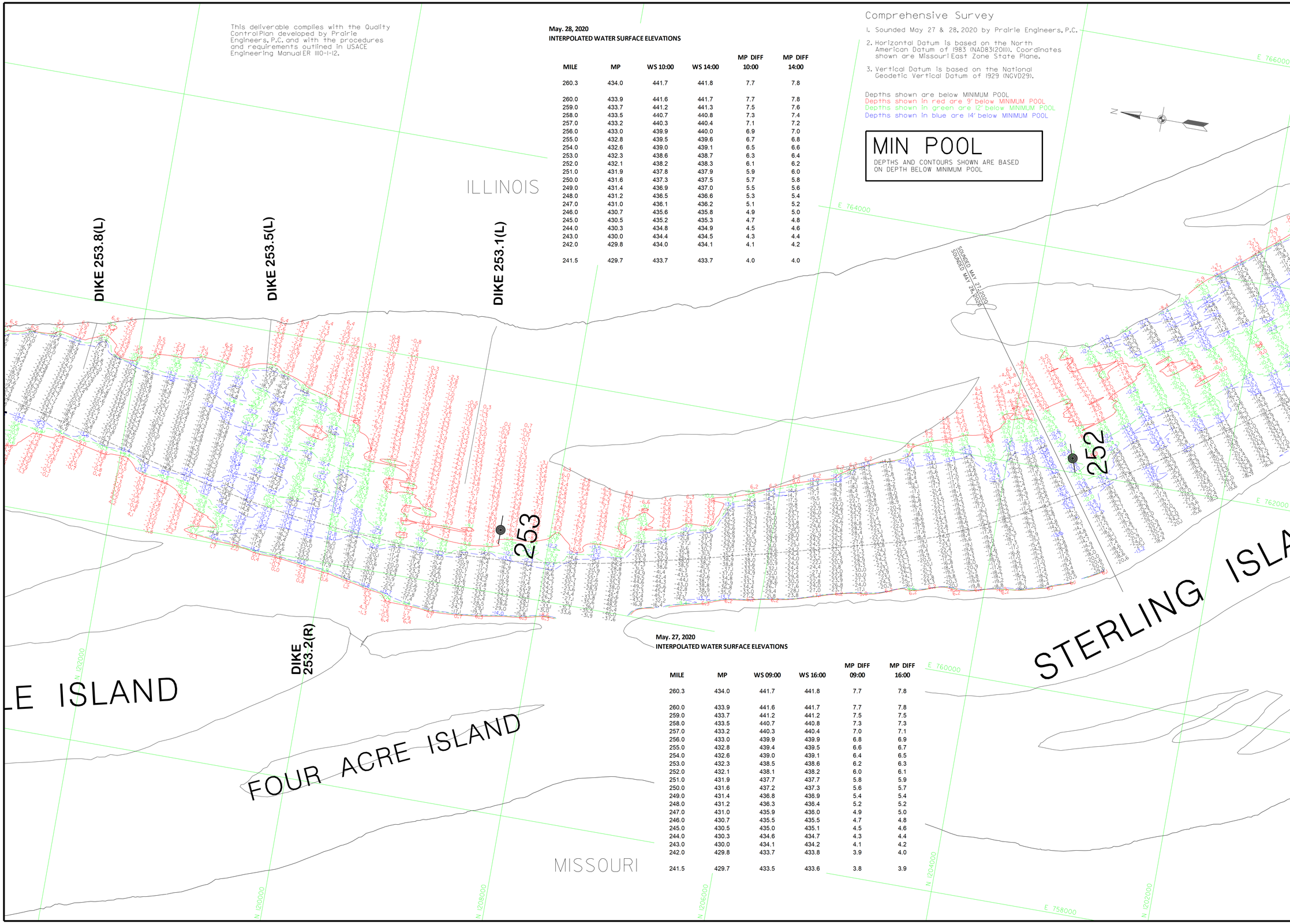
MILE	MP	WS 10:00	WS 14:00	MP DIFF 10:00	MP DIFF 14:00
260.3	434.0	441.7	441.8	7.7	7.8
260.0	433.9	441.6	441.7	7.7	7.8
259.0	433.7	441.2	441.3	7.5	7.6
258.0	433.5	440.7	440.8	7.3	7.4
257.0	433.2	440.3	440.4	7.1	7.2
256.0	433.0	439.9	440.0	6.9	7.0
255.0	432.8	439.5	439.6	6.7	6.8
254.0	432.6	439.0	439.1	6.5	6.6
253.0	432.3	438.6	438.7	6.3	6.4
252.0	432.1	438.2	438.3	6.1	6.2
251.0	431.9	437.8	437.9	5.9	6.0
250.0	431.6	437.3	437.5	5.7	5.8
249.0	431.4	436.9	437.0	5.5	5.6
248.0	431.2	436.5	436.6	5.3	5.4
247.0	431.0	436.1	436.2	5.1	5.2
246.0	430.7	435.6	435.8	4.9	5.0
245.0	430.5	435.2	435.3	4.7	4.8
244.0	430.3	434.8	434.9	4.5	4.6
243.0	430.0	434.4	434.5	4.3	4.4
242.0	429.8	434.0	434.1	4.1	4.2
241.5	429.7	433.7	433.7	4.0	4.0

Comprehensive Survey

1. Sounded May 27 & 28, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

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



May. 27, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 09:00	WS 16:00	MP DIFF 09:00	MP DIFF 16:00
260.3	434.0	441.7	441.8	7.7	7.8
260.0	433.9	441.6	441.7	7.7	7.8
259.0	433.7	441.2	441.2	7.5	7.5
258.0	433.5	440.7	440.8	7.3	7.3
257.0	433.2	440.3	440.4	7.0	7.1
256.0	433.0	439.9	439.9	6.8	6.9
255.0	432.8	439.4	439.5	6.6	6.7
254.0	432.6	439.0	439.1	6.4	6.5
253.0	432.3	438.5	438.6	6.2	6.3
252.0	432.1	438.1	438.2	6.0	6.1
251.0	431.9	437.7	437.7	5.8	5.9
250.0	431.6	437.2	437.3	5.6	5.7
249.0	431.4	436.8	436.9	5.4	5.4
248.0	431.2	436.3	436.4	5.2	5.2
247.0	431.0	435.9	436.0	4.9	5.0
246.0	430.7	435.5	435.5	4.7	4.8
245.0	430.5	435.0	435.1	4.5	4.6
244.0	430.3	434.6	434.7	4.3	4.4
243.0	430.0	434.1	434.2	4.1	4.2
242.0	429.8	433.7	433.8	3.9	4.0
241.5	429.7	433.5	433.6	3.8	3.9

US Army Corps of Engineers
St. Louis District

GAGE RECORD			
	WATER SURFACE	MOSIER	L & D 25 (U)
ZERO N.G.V.D.		400.0	407.0
MILE		260.3	246.5
MIN POOL		434.0	429.7
	28 MAY 2020	446.7 (10:00)	433.7 (10:00)
		446.8 (14:00)	433.7 (14:00)

Survey Dates: May 27, 2020
May 28, 2020

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
Reviewed by:
File name: bm24_273_241.mbcdgn
Plot date: 11 Jun 2020
Plot scale: 1"=400'
APPROVED:
Chief, Geospatial Branch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
120 0 120 400

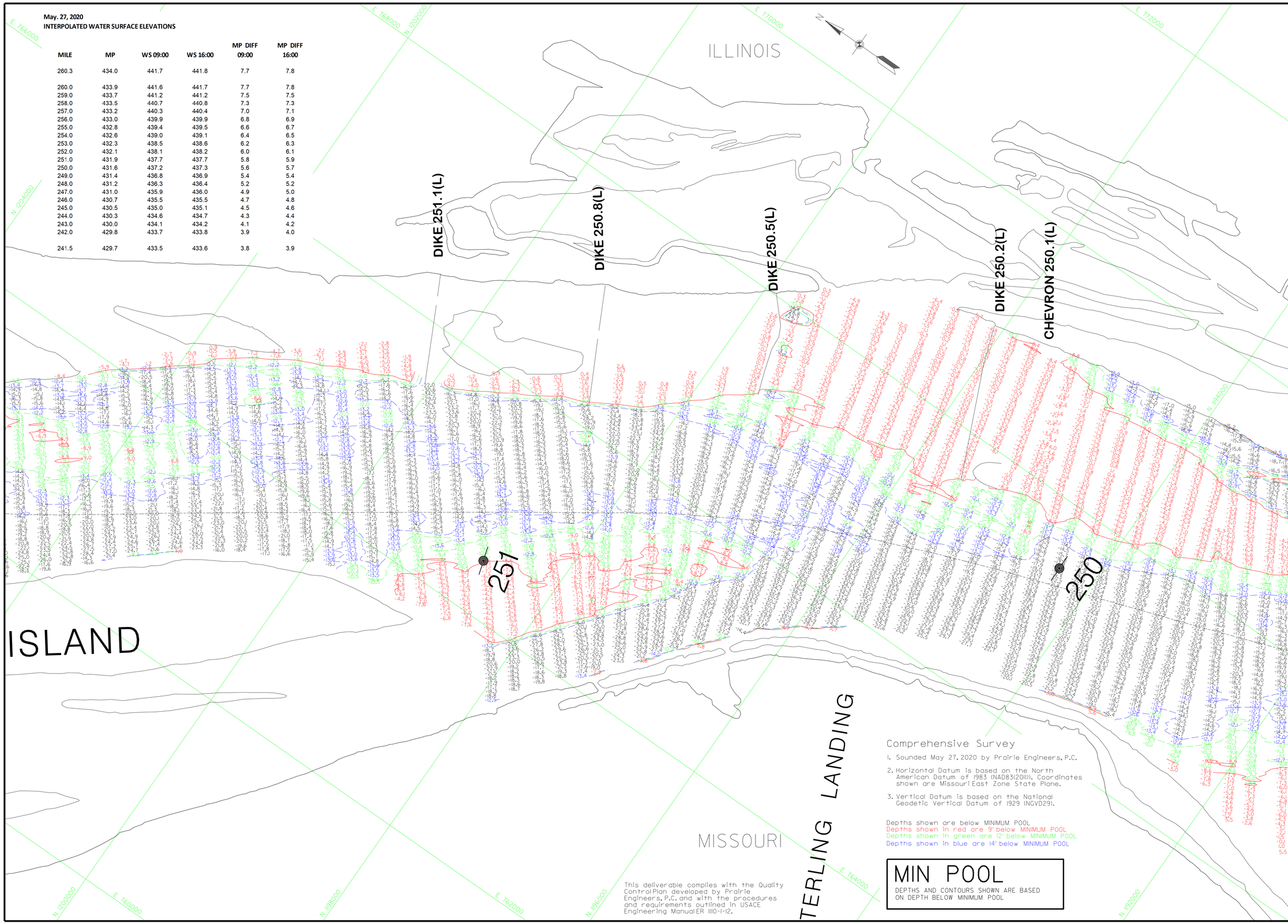
THE INFORMATION REPORTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) SHOWN. THE RESULTS ARE AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
24

May. 27, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 09:00	WS 16:00	MP DIFF 09:00	MP DIFF 16:00
260.3	434.0	441.7	441.8	7.7	7.8
260.0	433.9	441.6	441.7	7.7	7.8
259.0	433.7	441.2	441.2	7.5	7.5
258.0	433.5	440.7	440.8	7.3	7.3
257.0	433.2	440.3	440.4	7.0	7.1
256.0	433.0	439.9	439.9	6.8	6.9
255.0	432.8	439.4	439.5	6.6	6.7
254.0	432.6	439.0	439.1	6.4	6.5
253.0	432.3	438.5	438.6	6.2	6.3
252.0	432.1	438.1	438.2	6.0	6.1
251.0	431.9	437.7	437.7	5.8	5.9
250.0	431.6	437.2	437.3	5.6	5.7
249.0	431.4	436.8	436.9	5.4	5.4
248.0	431.2	436.3	436.4	5.2	5.2
247.0	431.0	435.9	436.0	4.9	5.0
246.0	430.7	435.5	435.5	4.7	4.8
245.0	430.5	435.0	435.1	4.5	4.6
244.0	430.3	434.6	434.7	4.3	4.4
243.0	430.0	434.1	434.2	4.1	4.2
242.0	429.8	433.7	433.8	3.9	4.0
241.5	429.7	433.5	433.6	3.8	3.9



Comprehensive Survey

1. Sounded May 27, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MOSER	L & D 25 (U)
ZERO N.G.V.D.		400.0	407.0
MILE		260.3	244.5
MIN POOL		434.0	429.7
	27 MAY 2020	441.7 (09:00)	433.5 (09:00)
		441.8 (16:00)	433.6 (16:00)

Survey Dates: May 27, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name:
5m25.273.241.mbdgn
Plot date: May 27, 2020
Plot scale: 1"=400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

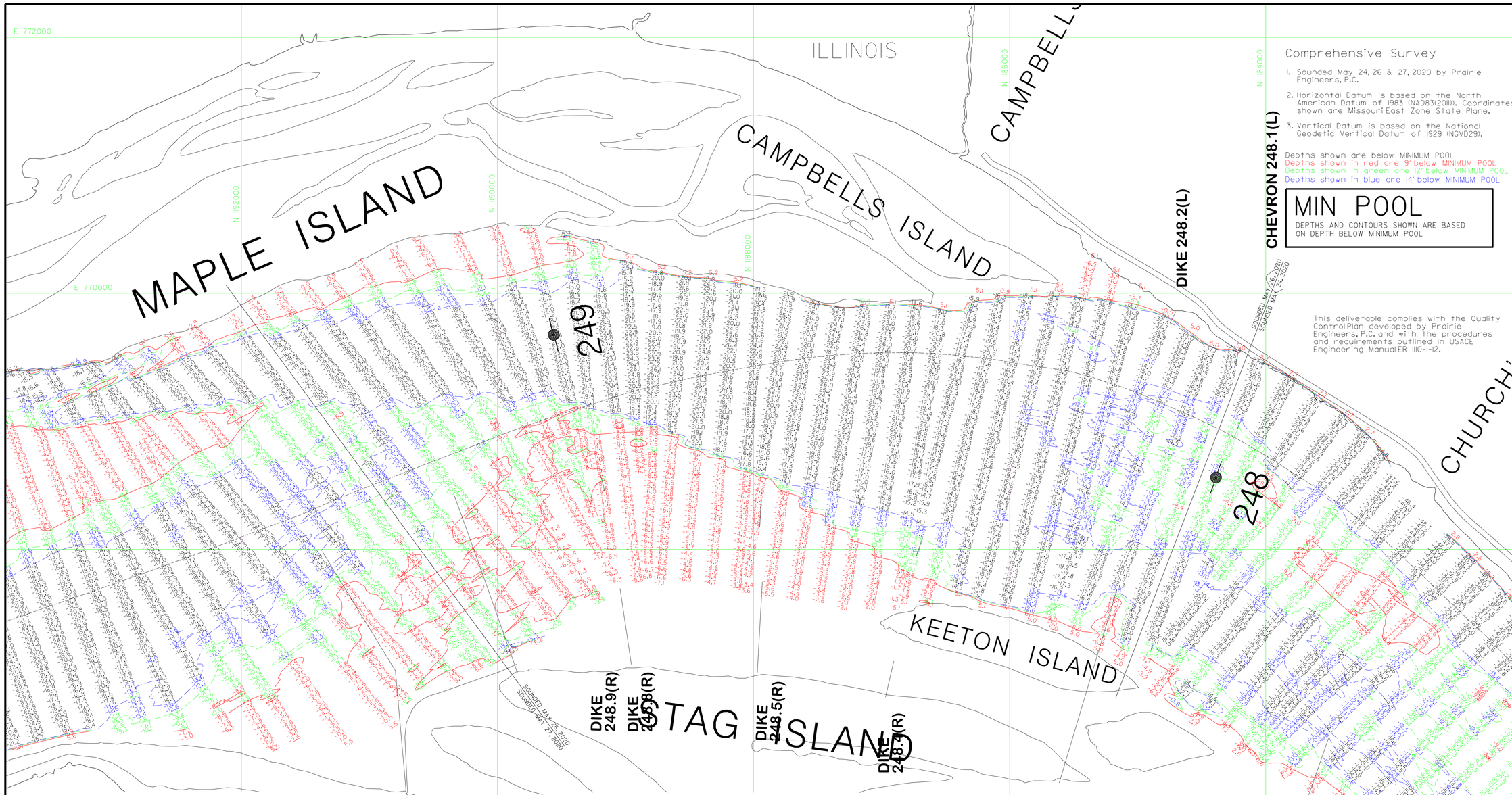
UPPER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER

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

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
25



Comprehensive Survey

1. Sounded May 24, 26 & 27, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

US Army Corps of Engineers
St. Louis District

GAGE RECORD			
	WATER SURFACE	MOSIER	L & D 25 (U)
ZERO N.G.V.D.		400.0	407.0
MILE		260.3	246.5
MIN POOL		434.0	429.7
	26 MAY 2020	44.7 (10:00)	433.3 (10:00)
		44.7 (13:00)	433.3 (13:00)

Survey Dates: May 24, 2020 May 26, 2020 May 27, 2020
Surveyed by: PRAIRIE ENGINEERS
SUBMITTED: Chief, Engr. Data Mngt. Sect.
Drawn by: BJB
Ckd by: DEF
File names: Sm26_273_24_mosdgn Sm26_273_25_2020
Reviewed by:
Plot scale: 1"=400'
APPROVED:
Chief, Geospatial Branch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS 800 FEET
120 0 120 400 0 400

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

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
26

May. 27, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

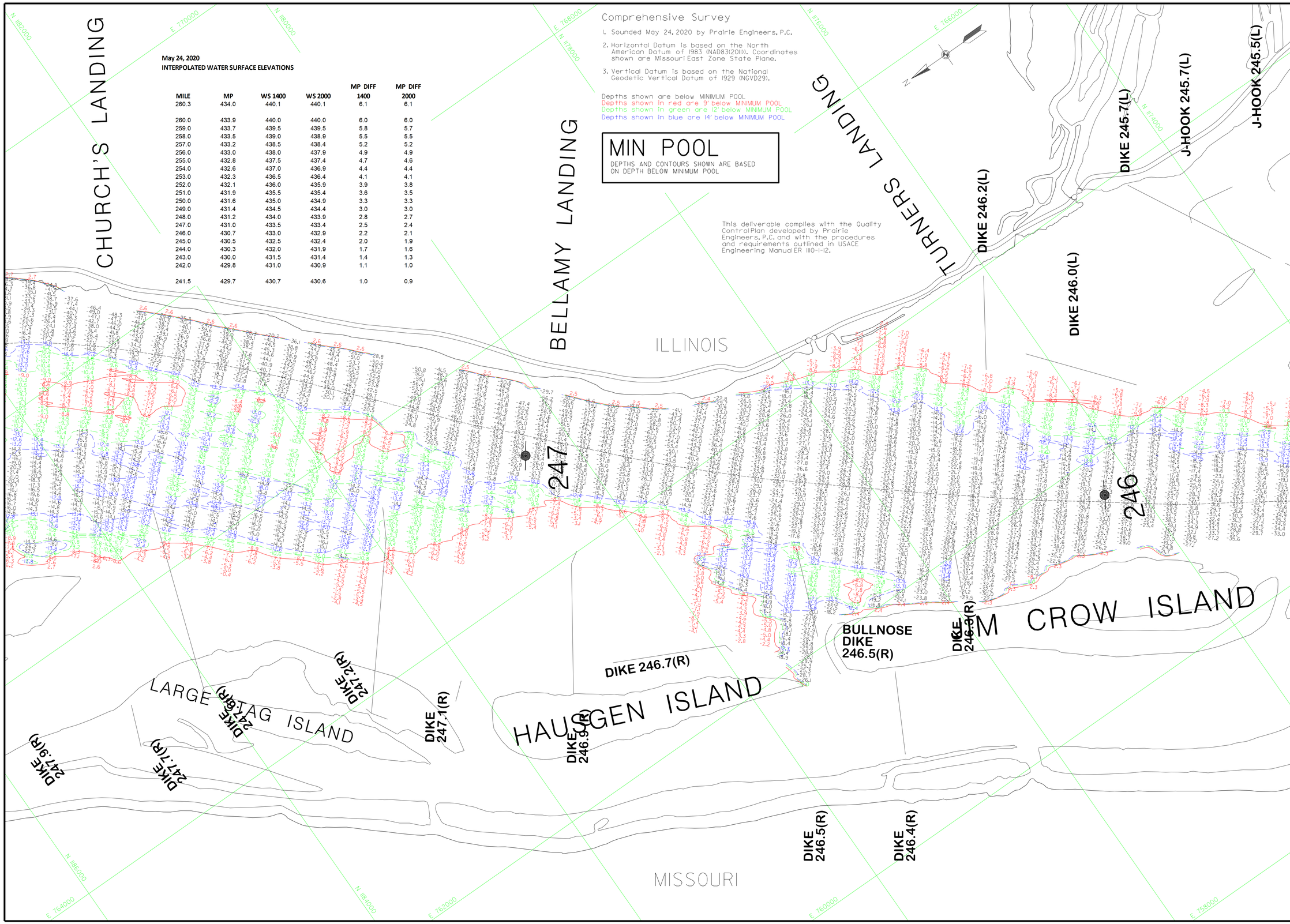
MILE	MP	WS 09:00	WS 16:00	MP DIFF 09:00	MP DIFF 16:00
260.3	434.0	441.7	441.8	7.7	7.8
260.0	433.9	441.6	441.7	7.7	7.8
259.0	433.7	441.2	441.2	7.5	7.5
258.0	433.5	440.7	440.8	7.3	7.3
257.0	433.2	440.3	440.4	7.0	7.1
256.0	433.0	439.9	439.9	6.8	6.9
255.0	432.8	439.4	439.5	6.6	6.7
254.0	432.6	439.0	439.1	6.4	6.5
253.0	432.3	438.5	438.6	6.2	6.3
252.0	432.1	438.1	438.2	6.0	6.1
251.0	431.9	437.7	437.7	5.8	5.9
250.0	431.6	437.2	437.3	5.6	5.7
249.0	431.4	436.8	436.9	5.4	5.4
248.0	431.2	436.3	436.4	5.2	5.2
247.0	431.0	435.9	436.0	4.9	5.0
246.0	430.7	435.5	435.5	4.7	4.8
245.0	430.5	435.0	435.1	4.5	4.6
244.0	430.3	434.6	434.7	4.3	4.4
243.0	430.0	434.1	434.2	4.1	4.2
242.0	429.8	433.7	433.8	3.9	4.0
241.5	429.7	433.5	433.6	3.8	3.9

May. 26, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 10:00	WS 13:00	MP DIFF 10:00	MP DIFF 13:00
260.3	434.0	441.7	441.7	7.7	7.7
260.0	433.9	441.6	441.5	7.6	7.6
259.0	433.7	441.1	441.1	7.4	7.4
258.0	433.5	440.7	440.7	7.2	7.2
257.0	433.2	440.2	440.2	7.0	7.0
256.0	433.0	439.8	439.8	6.8	6.7
255.0	432.8	439.3	439.3	6.5	6.5
254.0	432.6	438.9	438.9	6.3	6.3
253.0	432.3	438.4	438.4	6.1	6.1
252.0	432.1	438.0	438.0	5.9	5.9
251.0	431.9	437.5	437.5	5.7	5.7
250.0	431.6	437.1	437.1	5.4	5.4
249.0	431.4	436.6	436.6	5.2	5.2
248.0	431.2	436.2	436.2	5.0	5.0
247.0	431.0	435.8	435.7	4.8	4.8
246.0	430.7	435.3	435.3	4.6	4.6
245.0	430.5	434.9	434.9	4.4	4.4
244.0	430.3	434.4	434.4	4.1	4.1
243.0	430.0	434.0	434.0	3.9	3.9
242.0	429.8	433.5	433.5	3.7	3.7
241.5	429.7	433.3	433.3	3.6	3.6

May 24, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 1400	WS 2000	MP DIFF 1400	MP DIFF 2000
260.3	434.0	440.1	440.1	6.1	6.1
260.0	433.9	440.0	440.0	6.0	6.0
259.0	433.7	439.5	439.5	5.8	5.7
258.0	433.5	439.0	438.9	5.5	5.5
257.0	433.2	438.5	438.4	5.2	5.2
256.0	433.0	438.0	437.9	4.9	4.9
255.0	432.8	437.5	437.4	4.7	4.6
254.0	432.6	437.0	436.9	4.4	4.4
253.0	432.3	436.5	436.4	4.1	4.1
252.0	432.1	436.0	435.9	3.9	3.8
251.0	431.9	435.5	435.4	3.6	3.5
250.0	431.6	435.0	434.9	3.3	3.3
249.0	431.4	434.5	434.4	3.0	3.0
248.0	431.2	434.0	433.9	2.8	2.7
247.0	431.0	433.5	433.4	2.5	2.4
246.0	430.7	433.0	432.9	2.2	2.1
245.0	430.5	432.5	432.4	2.0	1.9
244.0	430.3	432.0	431.9	1.7	1.6
243.0	430.0	431.5	431.4	1.4	1.3
242.0	429.8	431.0	430.9	1.1	1.0
241.5	429.7	430.7	430.6	1.0	0.9



May 24, 2020

INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 1400	WS 2000	MP DIFF 1400	MP DIFF 2000
260.3	434.0	440.1	440.1	6.1	6.1
260.0	433.9	440.0	440.0	6.0	6.0
259.0	433.7	439.5	439.5	5.8	5.7
258.0	433.5	439.0	438.9	5.5	5.5
257.0	433.2	438.5	438.4	5.2	5.2
256.0	433.0	438.0	437.9	4.9	4.9
255.0	432.8	437.5	437.4	4.7	4.6
254.0	432.6	437.0	436.9	4.4	4.4
253.0	432.3	436.5	436.4	4.1	4.1
252.0	432.1	436.0	435.9	3.9	3.8
251.0	431.9	435.5	435.4	3.6	3.5
250.0	431.6	435.0	434.9	3.3	3.3
249.0	431.4	434.5	434.4	3.0	3.0
248.0	431.2	434.0	433.9	2.8	2.7
247.0	431.0	433.5	433.4	2.5	2.4
246.0	430.7	433.0	432.9	2.2	2.1
245.0	430.5	432.5	432.4	2.0	1.9
244.0	430.3	432.0	431.9	1.7	1.6
243.0	430.0	431.5	431.4	1.4	1.3
242.0	429.8	431.0	430.9	1.1	1.0
241.5	429.7	430.7	430.6	1.0	0.9

Comprehensive Survey

1. Sounded May 24, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

MIN POOL

DEPTHS AND CONTOURS SHOWN ARE BASED ON DEPTH BELOW MINIMUM POOL

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	WATER SURFACE	MOSIER	L & D 25 (U)
ZERO N.G.V.D.		400.0	407.0
MILE		260.3	246.5
MIN POOL		434.0	429.7
	24 MAY 2020	440.1(14.0)	430.7 (14.0)
		440.1(12.0)	430.6 (12.0)

Survey Dates: May 24, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: 5n121.23.241.mbcdgn
Plot date: Tuesday, May 26, 2020
Plot scale: 1"=400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: CKD
BJB
Checked by: DEF
Reviewed by:
APPROVED: Chief, Geosptial Branch

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

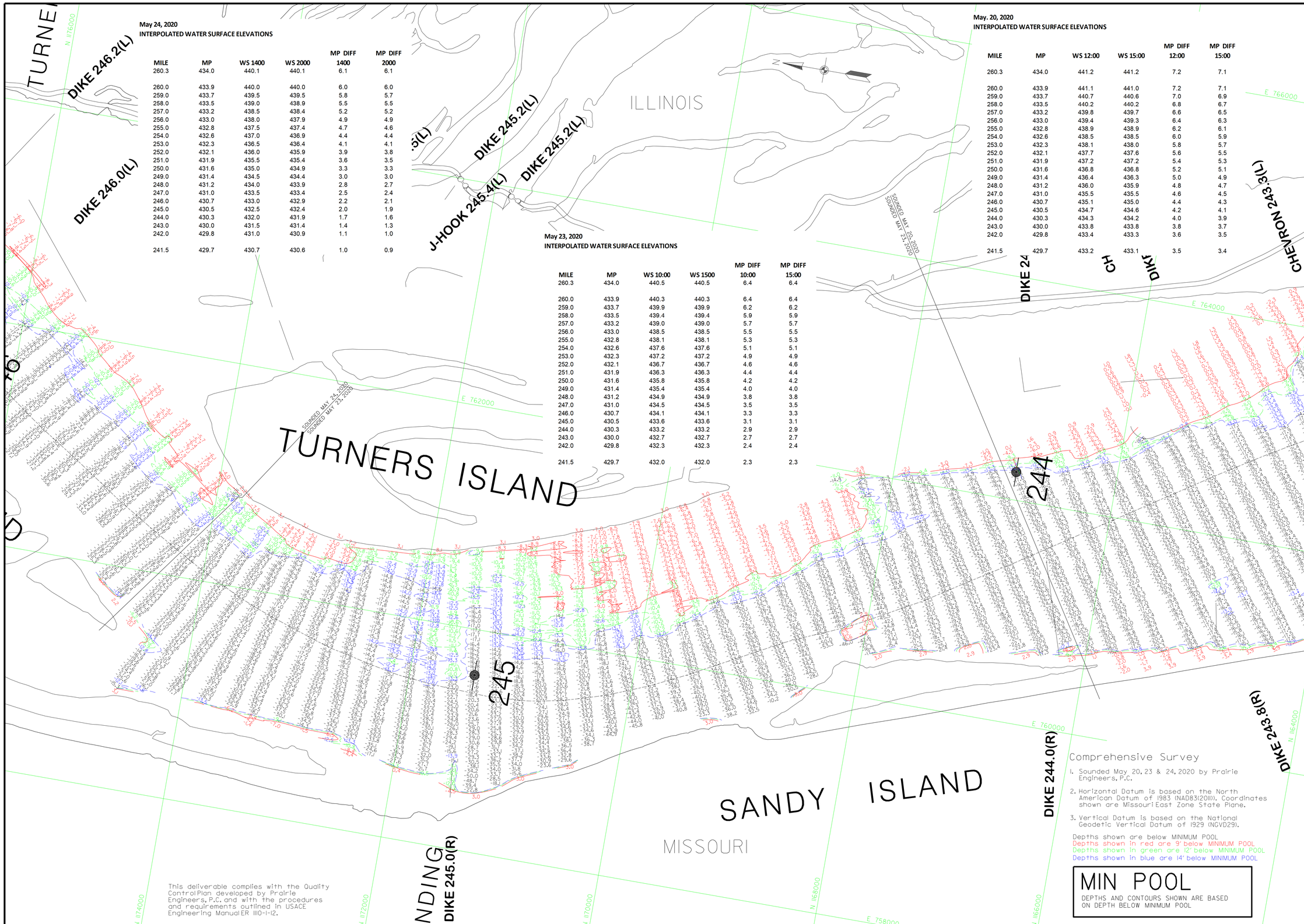
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
120 0 120 400 0 400

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

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
27



May 24, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 1400	WS 2000	MP DIFF 1400	MP DIFF 2000
260.3	434.0	440.1	440.1	6.1	6.1
260.0	433.9	440.0	440.0	6.0	6.0
259.0	433.7	439.5	439.5	5.8	5.7
258.0	433.5	439.0	438.9	5.5	5.5
257.0	433.2	438.5	438.4	5.2	5.2
256.0	433.0	438.0	437.9	4.9	4.9
255.0	432.8	437.5	437.4	4.7	4.6
254.0	432.6	437.0	436.9	4.4	4.4
253.0	432.3	436.5	436.4	4.1	4.1
252.0	432.1	436.0	435.9	3.9	3.8
251.0	431.9	435.5	435.4	3.6	3.5
250.0	431.6	435.0	434.9	3.3	3.3
249.0	431.4	434.5	434.4	3.0	3.0
248.0	431.2	434.0	433.9	2.8	2.7
247.0	431.0	433.5	433.4	2.5	2.4
246.0	430.7	433.0	432.9	2.2	2.1
245.0	430.5	432.5	432.4	2.0	1.9
244.0	430.3	432.0	431.9	1.7	1.6
243.0	430.0	431.5	431.4	1.4	1.3
242.0	429.8	431.0	430.9	1.1	1.0
241.5	429.7	430.7	430.6	1.0	0.9

May 23, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 10:00	WS 1500	MP DIFF 10:00	MP DIFF 15:00
260.3	434.0	440.5	440.5	6.4	6.4
260.0	433.9	440.3	440.3	6.4	6.4
259.0	433.7	439.9	439.9	6.2	6.2
258.0	433.5	439.4	439.4	5.9	5.9
257.0	433.2	439.0	439.0	5.7	5.7
256.0	433.0	438.5	438.5	5.5	5.5
255.0	432.8	438.1	438.1	5.3	5.3
254.0	432.6	437.6	437.6	5.1	5.1
253.0	432.3	437.2	437.2	4.9	4.9
252.0	432.1	436.7	436.7	4.6	4.6
251.0	431.9	436.3	436.3	4.4	4.4
250.0	431.6	435.8	435.8	4.2	4.2
249.0	431.4	435.4	435.4	4.0	4.0
248.0	431.2	434.9	434.9	3.8	3.8
247.0	431.0	434.5	434.5	3.5	3.5
246.0	430.7	434.1	434.1	3.3	3.3
245.0	430.5	433.6	433.6	3.1	3.1
244.0	430.3	433.2	433.2	2.9	2.9
243.0	430.0	432.7	432.7	2.7	2.7
242.0	429.8	432.3	432.3	2.4	2.4
241.5	429.7	432.0	432.0	2.3	2.3

May. 20, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 12:00	WS 15:00	MP DIFF 12:00	MP DIFF 15:00
260.3	434.0	441.2	441.2	7.2	7.1
260.0	433.9	441.1	441.0	7.2	7.1
259.0	433.7	440.7	440.6	7.0	6.9
258.0	433.5	440.2	440.2	6.8	6.7
257.0	433.2	439.8	439.7	6.6	6.5
256.0	433.0	439.4	439.3	6.4	6.3
255.0	432.8	438.9	438.9	6.2	6.1
254.0	432.6	438.5	438.5	6.0	5.9
253.0	432.3	438.1	438.0	5.8	5.7
252.0	432.1	437.7	437.6	5.6	5.5
251.0	431.9	437.2	437.2	5.4	5.3
250.0	431.6	436.8	436.8	5.2	5.1
249.0	431.4	436.4	436.3	5.0	4.9
248.0	431.2	436.0	435.9	4.8	4.7
247.0	431.0	435.5	435.5	4.6	4.5
246.0	430.7	435.1	435.0	4.4	4.3
245.0	430.5	434.7	434.6	4.2	4.1
244.0	430.3	434.3	434.2	4.0	3.9
243.0	430.0	433.8	433.8	3.8	3.7
242.0	429.8	433.4	433.3	3.6	3.5
241.5	429.7	433.2	433.1	3.5	3.4

US Army Corps of Engineers
St. Louis District

GAGE RECORD

WATER SURFACE	MOSER	L & D 25 (U)
ZERO N.G.V.D.	400.0	407.0
MILE	260.3	24.5
MIN POOL	434.0	429.7
23 MAY 2020	440.5 (10:00)	432.0 (10:00)
	440.5 (15:00)	432.0 (15:00)

Survey Date: May 20, 2020
May 23, 2020
May 24, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name: Sn28.2.1_Cal_through
Plot date: 2 June 2020
Plot scale: 1"=400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Cad by: DEF
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

240 METERS
800 FEET
120 0 120 400
0 400

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYING THE GENERAL CONDITIONS EXISTING AT THAT TIME AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

Comprehensive Survey

1. Sounded May 20, 23 & 24, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

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

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

PLATE NUMBER
28

Comprehensive Survey

1. Sounded May 19, 20 & June 10, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

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

May. 20, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

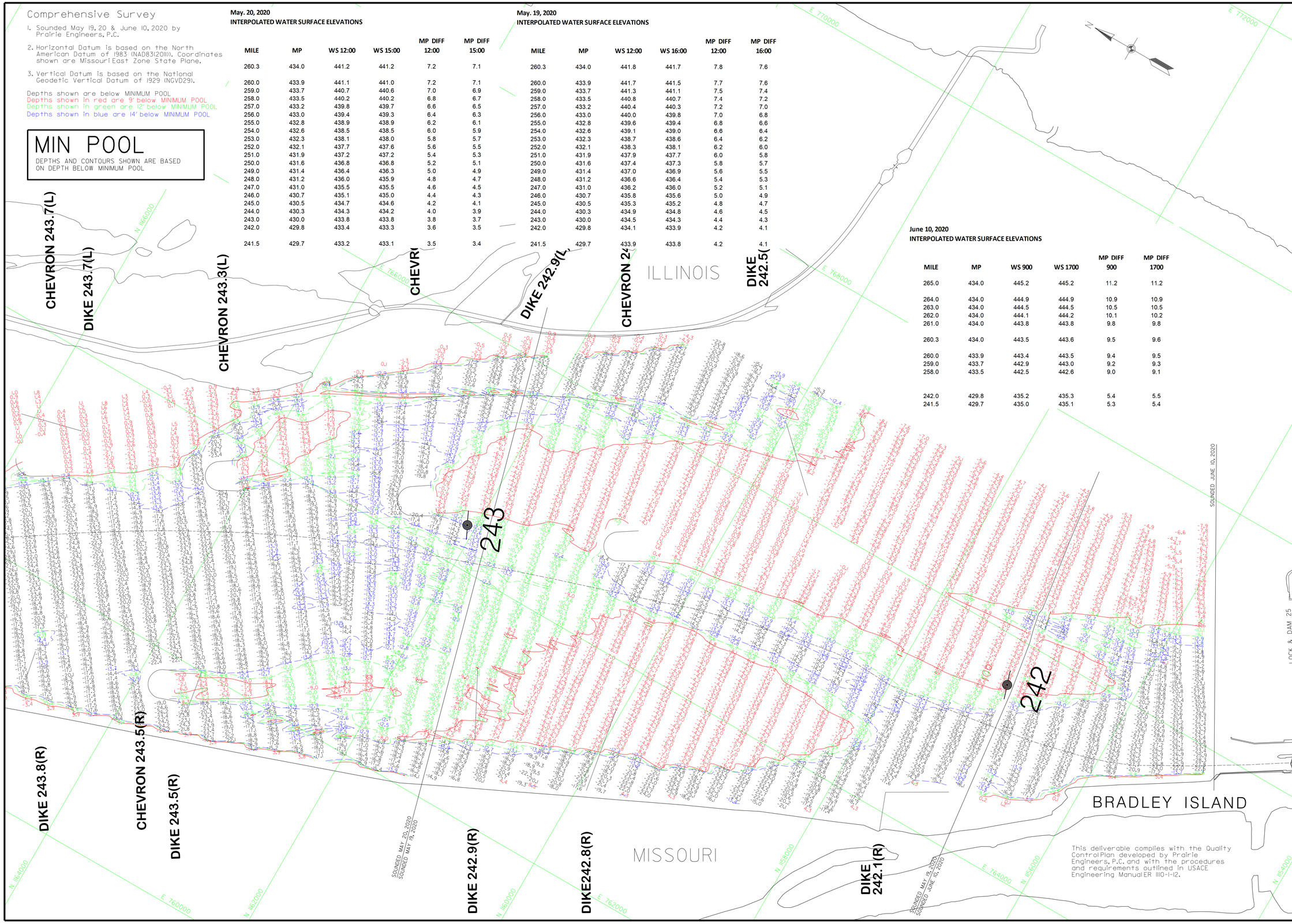
MILE	MP	WS 12:00	WS 15:00	MP DIFF 12:00	MP DIFF 15:00
260.3	434.0	441.2	441.2	7.2	7.1
260.0	433.9	441.1	441.0	7.2	7.1
259.0	433.7	440.7	440.6	7.0	6.9
258.0	433.5	440.2	440.2	6.8	6.7
257.0	433.2	439.8	439.7	6.6	6.5
256.0	433.0	439.4	439.3	6.4	6.3
255.0	432.8	438.9	438.9	6.2	6.1
254.0	432.6	438.5	438.5	6.0	5.9
253.0	432.3	438.1	438.0	5.8	5.7
252.0	432.1	437.7	437.6	5.6	5.5
251.0	431.9	437.2	437.2	5.4	5.3
250.0	431.6	436.8	436.8	5.2	5.1
249.0	431.4	436.4	436.3	5.0	4.9
248.0	431.2	436.0	435.9	4.8	4.7
247.0	431.0	435.5	435.5	4.6	4.5
246.0	430.7	435.1	435.0	4.4	4.3
245.0	430.5	434.7	434.6	4.2	4.1
244.0	430.3	434.3	434.2	4.0	3.9
243.0	430.0	433.8	433.8	3.8	3.7
242.0	429.8	433.4	433.3	3.6	3.5
241.5	429.7	433.2	433.1	3.5	3.4

May. 19, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 12:00	WS 16:00	MP DIFF 12:00	MP DIFF 16:00
260.3	434.0	441.8	441.7	7.8	7.6
260.0	433.9	441.7	441.5	7.7	7.6
259.0	433.7	441.3	441.1	7.5	7.4
258.0	433.5	440.8	440.7	7.4	7.2
257.0	433.2	440.4	440.3	7.2	7.0
256.0	433.0	440.0	439.8	7.0	6.8
255.0	432.8	439.6	439.4	6.8	6.6
254.0	432.6	439.1	439.0	6.6	6.4
253.0	432.3	438.7	438.6	6.4	6.2
252.0	432.1	438.3	438.1	6.2	6.0
251.0	431.9	437.9	437.7	6.0	5.8
250.0	431.6	437.4	437.3	5.8	5.7
249.0	431.4	437.0	436.9	5.6	5.5
248.0	431.2	436.6	436.4	5.4	5.3
247.0	431.0	436.2	436.0	5.2	5.1
246.0	430.7	435.8	435.6	5.0	4.9
245.0	430.5	435.3	435.2	4.8	4.7
244.0	430.3	434.9	434.8	4.6	4.5
243.0	430.0	434.5	434.3	4.4	4.3
242.0	429.8	434.1	433.9	4.2	4.1
241.5	429.7	433.9	433.8	4.2	4.1

June 10, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 900	WS 1700	MP DIFF 900	MP DIFF 1700
265.0	434.0	445.2	445.2	11.2	11.2
264.0	434.0	444.9	444.9	10.9	10.9
263.0	434.0	444.5	444.5	10.5	10.5
262.0	434.0	444.1	444.2	10.1	10.2
261.0	434.0	443.8	443.8	9.8	9.8
260.3	434.0	443.5	443.6	9.5	9.6
260.0	433.9	443.4	443.5	9.4	9.5
259.0	433.7	442.9	443.0	9.2	9.3
258.0	433.5	442.5	442.6	9.0	9.1
242.0	429.8	435.2	435.3	5.4	5.5
241.5	429.7	435.0	435.1	5.3	5.4



This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

US Army Corps of Engineers
St. Louis District

GAGE RECORD			
ZERO N.G.V.D.	WATER SURFACE	MOSER	L & D 25 (U)
MILE		400.0	407.0
MIN POOL		260.3	241.5
		434.0	429.7
	19 MAY 2020	441.8 (12:00)	433.9 (12:00)
		441.7 (16:00)	433.8 (16:00)

Survey Date: May 19, 2020
May 20, 2020
June 10, 2020
SUBMITTED:
Chief, Engr. Data Mngt. Sect.
File name: Sm23.23.2_241_mb.dgn
Plot date: Tuesday, July 7, 2020
Plot scale: 1:400

Surveyed by: PRAIRIE ENGINEERS
Drawn by: BJB
Ckd by: DEF
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

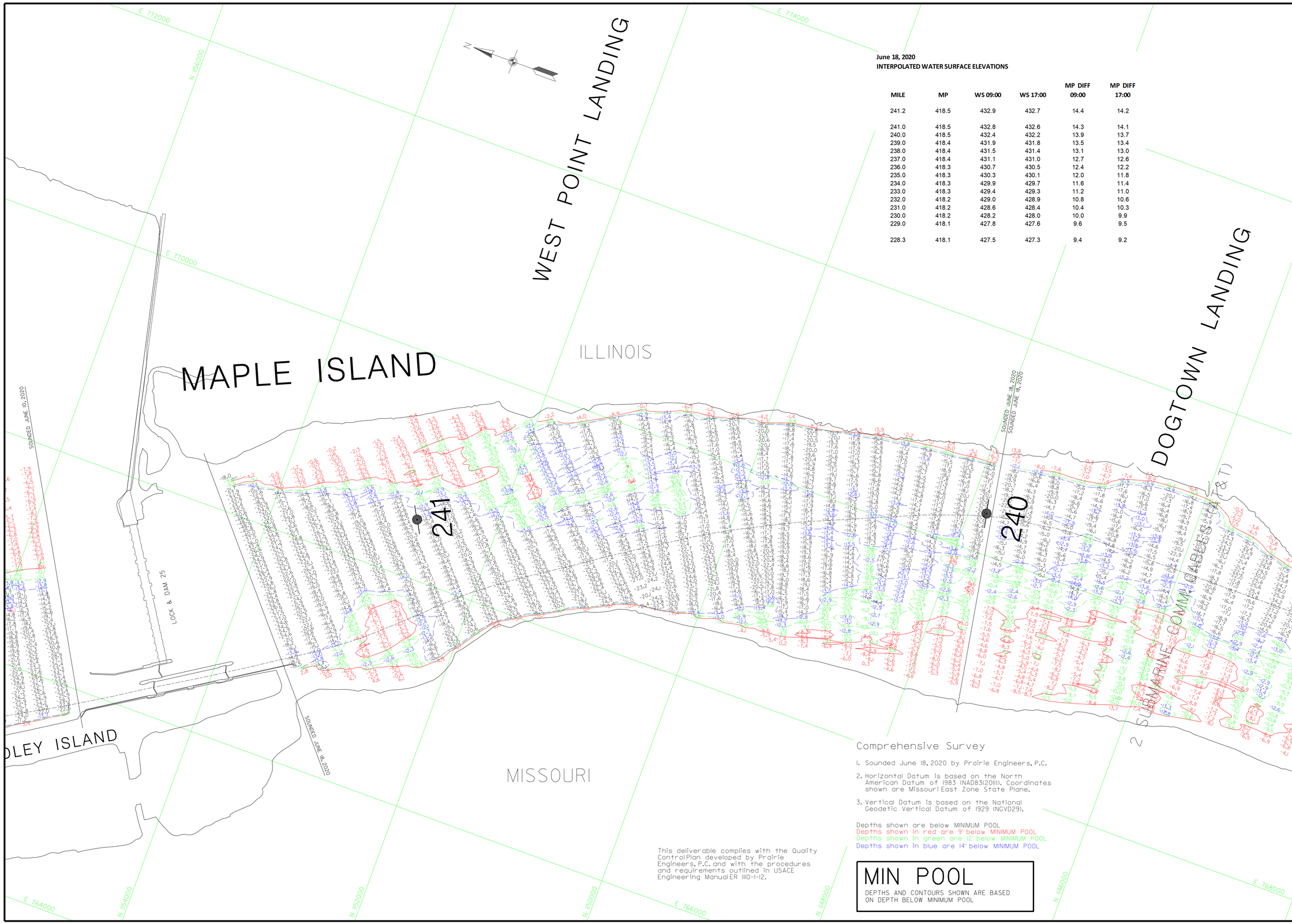
UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

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

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

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
29



June 18, 2020
INTERPOLATED WATER SURFACE ELEVATIONS

MILE	MP	WS 09:00	WS 17:00	MP DIFF 09:00	MP DIFF 17:00
241.2	418.5	432.9	432.7	14.4	14.2
241.0	418.5	432.8	432.6	14.3	14.1
240.0	418.5	432.4	432.2	13.9	13.7
239.0	418.4	431.9	431.8	13.5	13.4
238.0	418.4	431.5	431.4	13.1	13.0
237.0	418.4	431.1	431.0	12.7	12.6
236.0	418.3	430.7	430.5	12.4	12.2
235.0	418.3	430.3	430.1	12.0	11.8
234.0	418.3	429.9	429.7	11.6	11.4
233.0	418.3	429.4	429.3	11.2	11.0
232.0	418.2	429.0	428.9	10.8	10.6
231.0	418.2	428.6	428.4	10.4	10.3
230.0	418.2	428.2	428.0	10.0	9.9
229.0	418.1	427.8	427.6	9.6	9.5
228.3	418.1	427.5	427.3	9.4	9.2

Comprehensive Survey

1. Sounded June 18, 2020 by Prairie Engineers, P.C.
2. Horizontal Datum is based on the North American Datum of 1983 (NAD83(2011)). Coordinates shown are Missouri East Zone State Plane.
3. Vertical Datum is based on the National Geodetic Vertical Datum of 1929 (NGVD29).

Depths shown are below MINIMUM POOL
Depths shown in red are 9' below MINIMUM POOL
Depths shown in green are 12' below MINIMUM POOL
Depths shown in blue are 14' below MINIMUM POOL

This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in USACE Engineering Manual ER 1110-1-12.

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	L&D 25 (IL)	DIXON LANDING
ZERO N.G.V.D.		407.0	410.6
MILE		24.2	228.3
MIN POOL		418.5	418.1
	18 JUNE 2020	432.9 (09:00) 432.7 (17:00)	427.5 (09:00) 427.3 (17:00)

Survey Date: June 18, 2020

SUBMITTED:
Chief, Engr. Data Mngt. Sect.

File name:
5m10.24.20.mo.dgn
Plot date: 7-7-2020
Plot scale: 1"=400'

Surveyed by: PRAIRIE ENGINEERS
Drawn by: JLM
Ckd by: DEF
Reviewed by:
APPROVED:
Chief, Geospatial Branch

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

UPPER MISSISSIPPI RIVER BASIN
MISSISSIPPI RIVER

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

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

COMPREHENSIVE SURVEY
MILE: 300.0 - 195.0

PLATE NUMBER
30