

Island Number 476

262

Thomas Chute Lower Lt. (262.1)

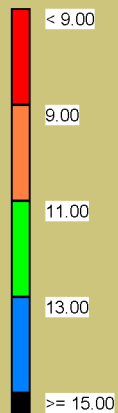
FIG 4s

CHANNEL PATROL SURVEY

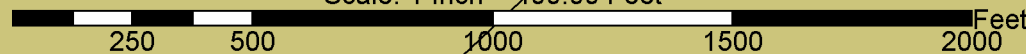
- Sounded 12 June, 2023 by Prairie Engineers, P.C.
- Horizontal Datum NAD83(2011) Missouri East, Vertical Datum NGVD29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at [nauticalcharts.noaa.gov/publications/us-chart-1.html](http://nauticalcharts.noaa.gov/publications/us-chart-1.html)
- Depths shown are below Minimum Pool (MP)  
 Red depths are between 8 feet, Minimum Pool (MP) and the surface  
 Orange depths are 9 to 11 feet below Minimum Pool (MP)  
 Green depths are 11 to 13 feet below Minimum Pool (MP)  
 Blue depths are 13 to 15 feet below Minimum Pool (MP)  
 Black depths are 15 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.

June 12, 2023  
INTERPOLATED WATER SURFACE ELEVATIONS

| MILE           | MP     | WS 09:00 | WS 15:00 | MP         | MP         |
|----------------|--------|----------|----------|------------|------------|
|                |        |          |          | DIFF 09:00 | DIFF 15:00 |
| <b>Rip Rap</b> |        |          |          |            |            |
| 265.0          | 434.00 | 435.93   | 435.93   | 1.93       | 1.93       |
| 264.0          | 434.00 | 435.67   | 435.67   | 1.67       | 1.67       |
| 263.0          | 434.00 | 435.41   | 435.42   | 1.41       | 1.42       |
| 262.0          | 434.00 | 435.14   | 435.16   | 1.14       | 1.16       |
| 261.0          | 434.00 | 434.88   | 434.91   | 0.88       | 0.91       |
| <b>Mosier</b>  |        |          |          |            |            |
| 260.3          | 434.00 | 434.70   | 434.73   | 0.70       | 0.73       |



Scale: 1 Inch = 400.00 Feet



|                            |              |
|----------------------------|--------------|
| Gage Records 12 June, 2023 |              |
| LD 24 TW                   | 9:00 = 16.46 |
| Rip Rap                    | 9:00 = 9.90  |
| Mosier                     | 9:00 = 34.70 |
| LD 25 Pool                 | 9:00 = 24.45 |

|                  |                     |
|------------------|---------------------|
| DATES OF SURVEY: | 12 June, 2023       |
| SCALE:           | ONE INCH = 400 FEET |
| FIELD BOOKS:     |                     |
| FILE NO.:        |                     |
| REQUEST NO.:     |                     |

Approved: **Abdennour Nkem**  
 RELAYING ENGINEER  
 Approved: **Jarrett Langer**  
 CIVIL ENGINEERING TECHNICIAN  
 Approved: **Jarrett Langer**  
 ASST. CHIEF OF SURVEY  
 Approved: **Darren Foray**  
 CHIEF OF SURVEY  
 Date: 16 June, 2023

U.S. ARMY CORPS OF ENGINEERS  
 ST. LOUIS DISTRICT  
 ST. LOUIS, MISSOURI

SURVEYED BY  
 PRAIRIE ENGINEERS, P.C.  
 404 N. MAIN STREET  
 COLUMBIA, IL. 62236

MIDDLE MISSISSIPPI RIVER  
 CHANNEL PATROL SURVEY  
 RIVER MILES 273.2 - 241.5



|                            |               |
|----------------------------|---------------|
| Gage Records 12 June, 2023 |               |
| LD 24 TW                   | 9:00 = 16.46  |
| Rip Rap                    | 9:00 = 9.90   |
| Mosier                     | 9:00 = 34.70  |
| LD 25 Pool                 | 9:00 = 24.11  |
|                            | 15:00 = 16.46 |
|                            | 15:00 = 9.90  |
|                            | 15:00 = 34.70 |
|                            | 15:00 = 24.45 |

DATES OF SURVEY:  
12 June, 2023

FILE NO.:  
REQUEST NO.:

SCALE:  
ONE INCH = 400 FEET

FIELD BOOKS:

Approved: **Abdennour Nkomo**  
RELIEF COMMISSIONER

Approved: **Jarrett Lancer**  
CIVIL ENGINEERING TECHNICIAN

Approved: **Jarrett Lancer**  
ASST. CHIEF OF SURVEY

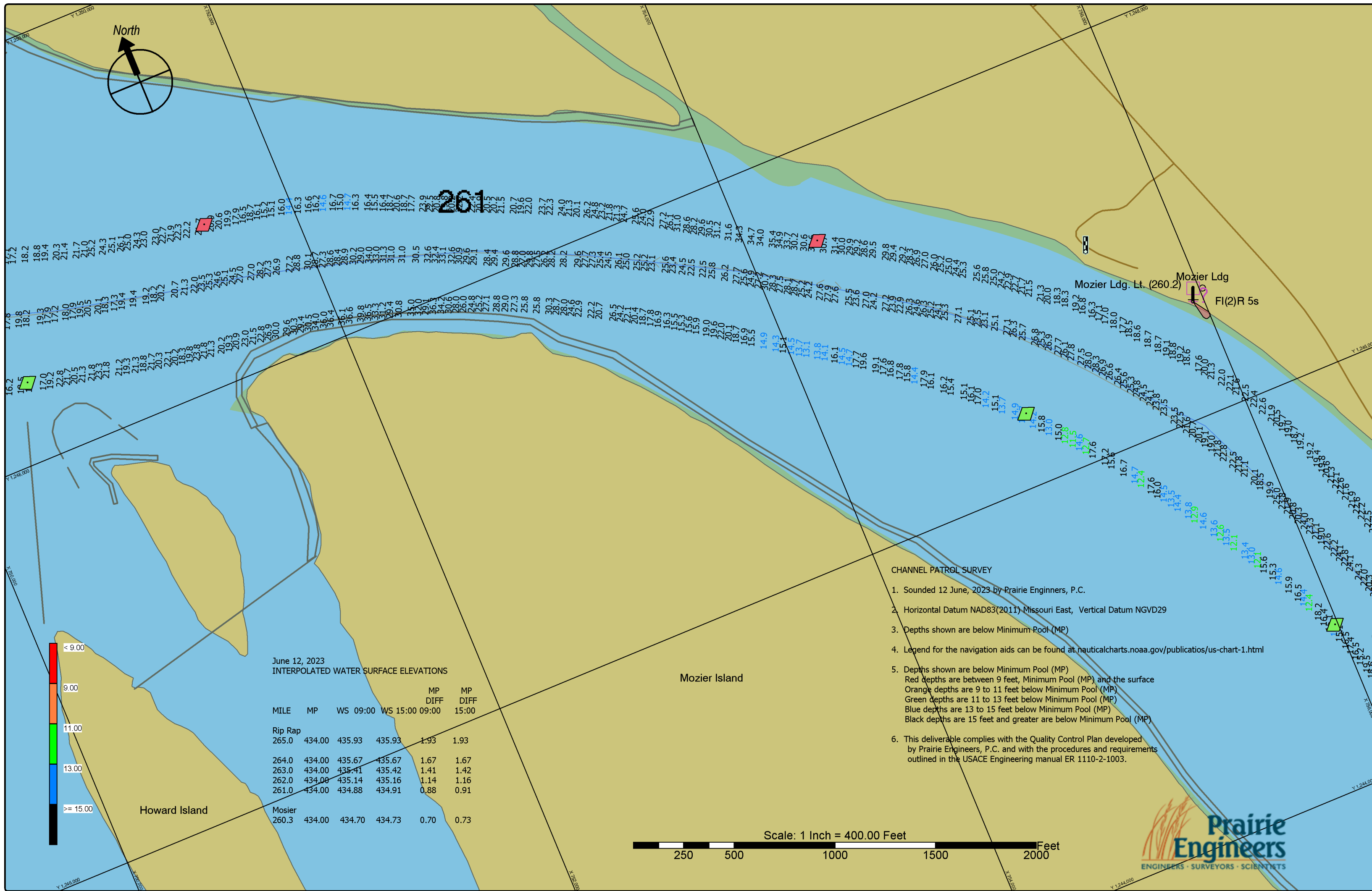
Approved: **Darren Foray**  
CHIEF OF SURVEY

Date: 16 June, 2023

U.S. ARMY CORPS OF ENGINEERS  
ST. LOUIS DISTRICT  
ST. LOUIS, MISSOURI

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COLUMBIA, IL. 62236

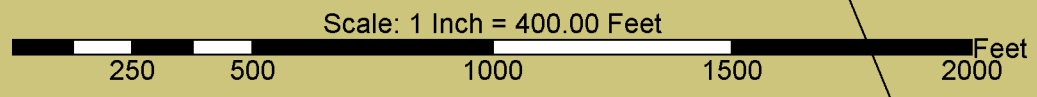
MIDDLE MISSISSIPPI RIVER  
CHANNEL PATROL SURVEY  
RIVER MILES 273.2 - 241.5



June 12, 2023  
INTERPOLATED WATER SURFACE ELEVATIONS

| MILE           | MP     | WS 09:00 | WS 15:00 | MP         | MP         |
|----------------|--------|----------|----------|------------|------------|
|                |        |          |          | DIFF 09:00 | DIFF 15:00 |
| <b>Rip Rap</b> |        |          |          |            |            |
| 265.0          | 434.00 | 435.93   | 435.93   | 1.93       | 1.93       |
| 264.0          | 434.00 | 435.67   | 435.67   | 1.67       | 1.67       |
| 263.0          | 434.00 | 435.41   | 435.42   | 1.41       | 1.42       |
| 262.0          | 434.00 | 435.14   | 435.16   | 1.14       | 1.16       |
| 261.0          | 434.00 | 434.88   | 434.91   | 0.88       | 0.91       |
| <b>Mosier</b>  |        |          |          |            |            |
| 260.3          | 434.00 | 434.70   | 434.73   | 0.70       | 0.73       |

- CHANNEL PATROL SURVEY
- Sounded 12 June, 2023 by Prairie Engineers, P.C.
  - Horizontal Datum NAD83(2011) Missouri East, Vertical Datum NGVD29
  - Depths shown are below Minimum Pool (MP)
  - Legend for the navigation aids can be found at [nauticalcharts.noaa.gov/publications/us-chart-1.html](http://nauticalcharts.noaa.gov/publications/us-chart-1.html)
  - Depths shown are below Minimum Pool (MP)  
 Red depths are between 9 feet, Minimum Pool (MP) and the surface  
 Orange depths are 9 to 11 feet below Minimum Pool (MP)  
 Green depths are 11 to 13 feet below Minimum Pool (MP)  
 Blue depths are 13 to 15 feet below Minimum Pool (MP)  
 Black depths are 15 feet and greater are below Minimum Pool (MP)
  - This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.





Hamburg, IL

|                            |               |
|----------------------------|---------------|
| Gage Records 12 June, 2023 | 15:00 = 16.46 |
| LD 24 TW 9:00 = 16.46      | 15:00 = 9.90  |
| Rip Rap 9:00 = 9.90        | 15:00 = 34.70 |
| Mosier 9:00 = 34.70        | 15:00 = 24.45 |
| LD 25 Pool 9:00 = 24.11    | 15:00 = 24.45 |

|                  |               |
|------------------|---------------|
| DATES OF SURVEY: | 12 June, 2023 |
| FILE NO.:        |               |
| REQUEST NO.:     |               |

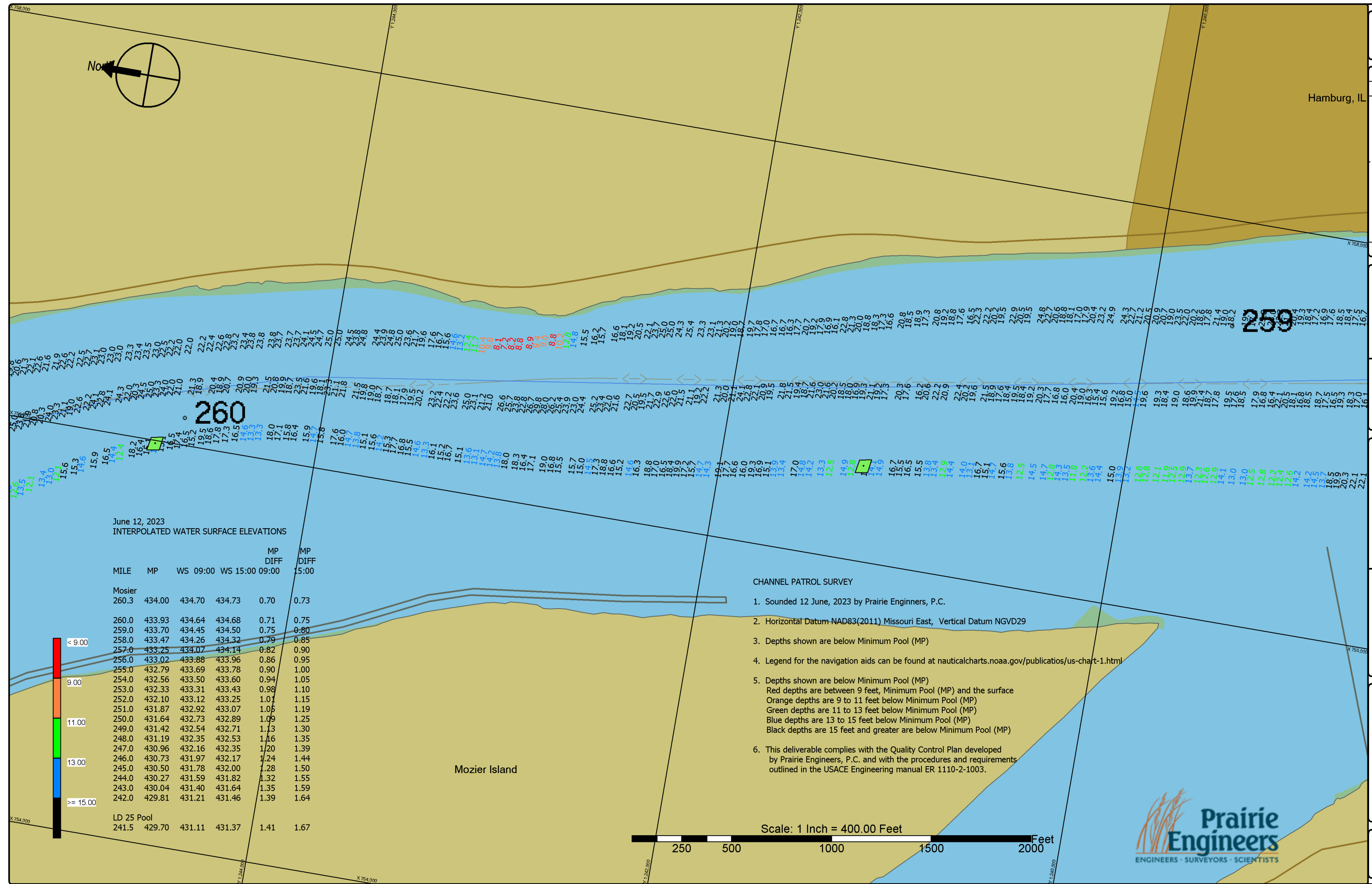
|              |                     |
|--------------|---------------------|
| SCALE:       | ONE INCH = 400 FEET |
| FIELD BOOKS: |                     |

|                          |                              |
|--------------------------|------------------------------|
| Approved: Ahdhego Nkem   | RELAY OPERATOR               |
| Approved: Jarrett Langer | CIVIL ENGINEERING TECHNICIAN |
| Approved: Jarrett Langer | ASST. CHIEF OF SURVEY        |
| Approved: Darren Foray   | CHIEF OF SURVEY              |
| Date:                    | 16 June, 2023                |

U.S. ARMY CORPS OF ENGINEERS  
ST. LOUIS DISTRICT  
ST. LOUIS, MISSOURI

SURVEYED BY  
PRAIRIE ENGINEERS, P.C.  
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COLUMBIA, IL 62236

MIDDLE MISSISSIPPI RIVER  
CHANNEL PATROL SURVEY  
RIVER MILES 273.2 - 241.5



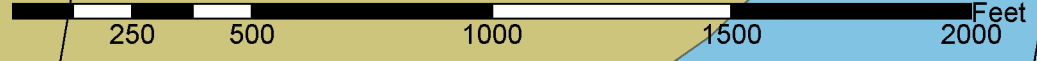
June 12, 2023  
INTERPOLATED WATER SURFACE ELEVATIONS

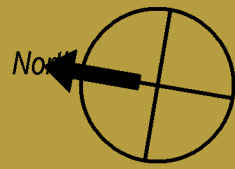
| MILE       | MP    | WS 09:00 | WS 15:00 | MP DIFF 09:00 | MP DIFF 15:00 |
|------------|-------|----------|----------|---------------|---------------|
| Mosier     | 260.3 | 434.00   | 434.70   | 0.70          | 0.73          |
|            | 260.0 | 433.93   | 434.64   | 0.71          | 0.75          |
|            | 259.0 | 433.70   | 434.45   | 0.75          | 0.80          |
|            | 258.0 | 433.47   | 434.26   | 0.79          | 0.85          |
|            | 257.0 | 433.25   | 434.07   | 0.82          | 0.90          |
|            | 256.0 | 433.02   | 433.88   | 0.86          | 0.95          |
|            | 255.0 | 432.79   | 433.69   | 0.90          | 1.00          |
|            | 254.0 | 432.56   | 433.50   | 0.94          | 1.05          |
|            | 253.0 | 432.33   | 433.31   | 0.98          | 1.10          |
|            | 252.0 | 432.10   | 433.12   | 1.01          | 1.15          |
|            | 251.0 | 431.87   | 432.92   | 1.05          | 1.19          |
|            | 250.0 | 431.64   | 432.73   | 1.09          | 1.25          |
|            | 249.0 | 431.42   | 432.54   | 1.13          | 1.30          |
|            | 248.0 | 431.19   | 432.35   | 1.16          | 1.35          |
|            | 247.0 | 430.96   | 432.16   | 1.20          | 1.39          |
|            | 246.0 | 430.73   | 431.97   | 1.24          | 1.44          |
|            | 245.0 | 430.50   | 431.78   | 1.28          | 1.50          |
|            | 244.0 | 430.27   | 431.59   | 1.32          | 1.55          |
|            | 243.0 | 430.04   | 431.40   | 1.35          | 1.59          |
|            | 242.0 | 429.81   | 431.21   | 1.39          | 1.64          |
| LD 25 Pool | 241.5 | 429.70   | 431.11   | 1.41          | 1.67          |

CHANNEL PATROL SURVEY

- Sounded 12 June, 2023 by Prairie Engineers, P.C.
- Horizontal Datum-NAD83(2011) Missouri East, Vertical Datum NGVD29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at [nauticalcharts.noaa.gov/publications/us-chart-1.html](http://nauticalcharts.noaa.gov/publications/us-chart-1.html)
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Scale: 1 Inch = 400.00 Feet





Hamburg, IL

258



|                            |              |
|----------------------------|--------------|
| Gage Records 12 June, 2023 |              |
| LD 24 TW                   | 9:00 = 16.46 |
| Rip Rap                    | 9:00 = 9.90  |
| Mosier                     | 9:00 = 34.70 |
| LD 25 Pool                 | 9:00 = 24.45 |

|                  |               |
|------------------|---------------|
| DATES OF SURVEY: | 12 June, 2023 |
| FILE NO.:        |               |
| REQUEST NO.:     |               |

|              |                     |
|--------------|---------------------|
| SCALE:       | ONE INCH = 400 FEET |
| FIELD BOOKS: |                     |

|                          |                              |
|--------------------------|------------------------------|
| Approved: Ahdhego Nkem   | RELAY OPERATOR               |
| Approved: Jarrett Langer | CIVIL ENGINEERING TECHNICIAN |
| Approved: Jarrett Langer | ASST. CHIEF OF SURVEY        |
| Approved: Darren Foray   | CHIEF OF SURVEY              |
| Date:                    | 16 June, 2023                |

U.S. ARMY CORPS OF ENGINEERS  
ST. LOUIS DISTRICT  
ST. LOUIS, MISSOURI

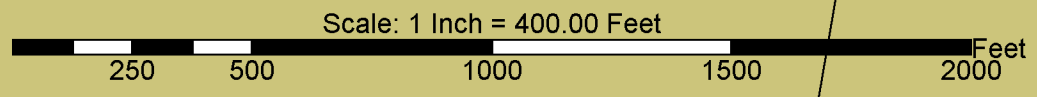
SURVEYED BY  
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COLUMBIA, IL. 62236

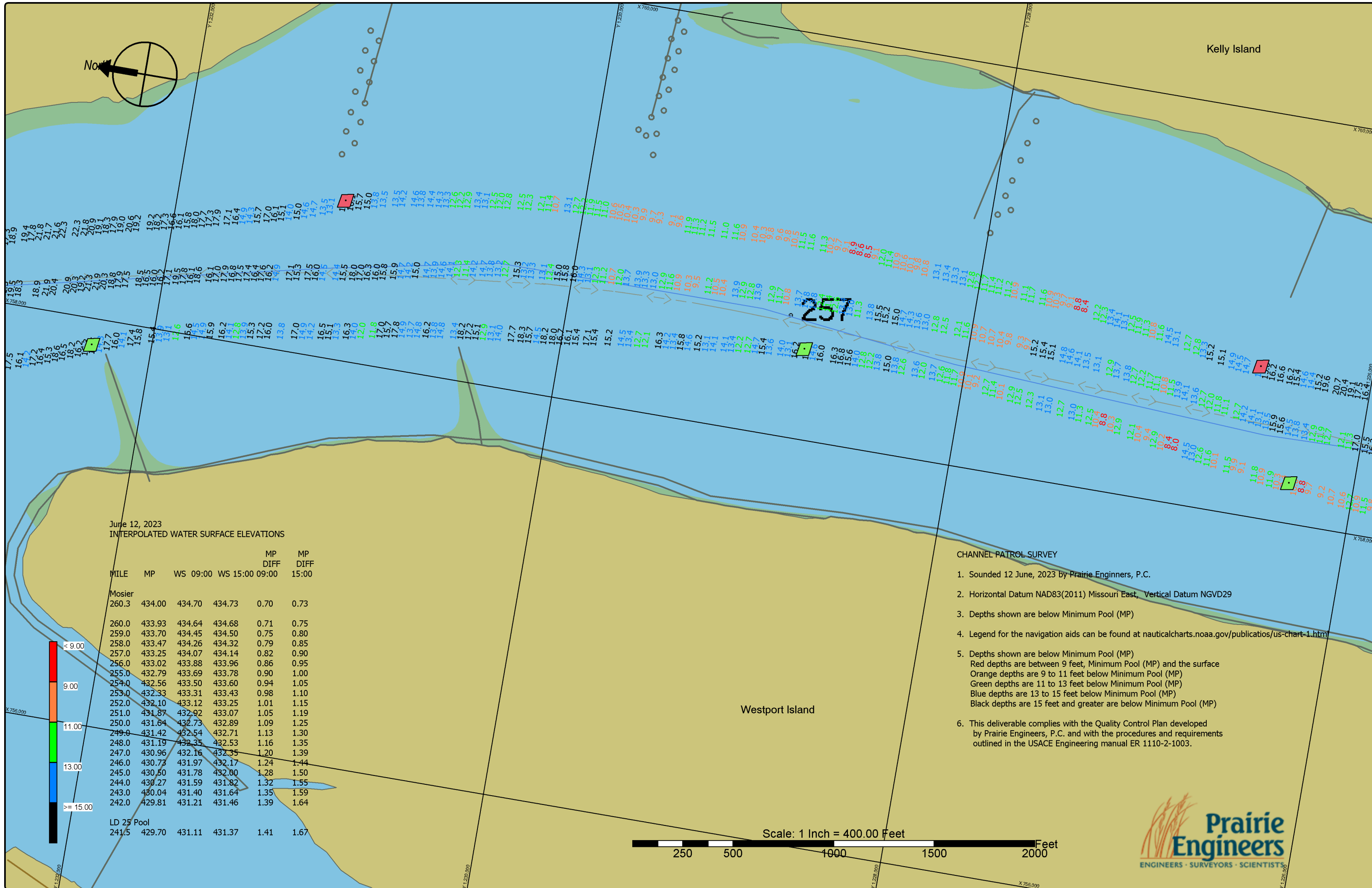
MIDDLE MISSISSIPPI RIVER  
CHANNEL PATROL SURVEY  
RIVER MILES 273.2 - 241.5

June 12, 2023  
INTERPOLATED WATER SURFACE ELEVATIONS

| MILE       | MP    | WS 09:00 | WS 15:00 | MP DIFF 09:00 | MP DIFF 15:00 |      |
|------------|-------|----------|----------|---------------|---------------|------|
| Mosier     | 260.3 | 434.00   | 434.70   | 434.73        | 0.70          | 0.73 |
|            | 260.0 | 433.93   | 434.64   | 434.68        | 0.71          | 0.75 |
|            | 259.0 | 433.70   | 434.45   | 434.50        | 0.75          | 0.80 |
|            | 258.0 | 433.47   | 434.26   | 434.32        | 0.79          | 0.85 |
|            | 257.0 | 433.25   | 434.07   | 434.14        | 0.82          | 0.90 |
|            | 256.0 | 433.02   | 433.88   | 433.96        | 0.86          | 0.95 |
|            | 255.0 | 432.79   | 433.69   | 433.78        | 0.90          | 1.00 |
|            | 254.0 | 432.56   | 433.50   | 433.60        | 0.94          | 1.05 |
|            | 253.0 | 432.33   | 433.31   | 433.43        | 0.98          | 1.10 |
|            | 252.0 | 432.10   | 433.12   | 433.25        | 1.01          | 1.15 |
|            | 251.0 | 431.87   | 432.92   | 433.07        | 1.05          | 1.19 |
|            | 250.0 | 431.64   | 432.73   | 432.89        | 1.09          | 1.25 |
|            | 249.0 | 431.42   | 432.54   | 432.71        | 1.13          | 1.30 |
|            | 248.0 | 431.19   | 432.35   | 432.53        | 1.16          | 1.35 |
|            | 247.0 | 430.96   | 432.16   | 432.35        | 1.20          | 1.39 |
|            | 246.0 | 430.73   | 431.97   | 432.17        | 1.24          | 1.44 |
|            | 245.0 | 430.50   | 431.78   | 432.00        | 1.28          | 1.50 |
|            | 244.0 | 430.27   | 431.59   | 431.82        | 1.32          | 1.55 |
|            | 243.0 | 430.04   | 431.40   | 431.64        | 1.35          | 1.59 |
|            | 242.0 | 429.81   | 431.21   | 431.46        | 1.39          | 1.64 |
| LD 25 Pool | 241.5 | 429.70   | 431.11   | 431.37        | 1.41          | 1.67 |

- CHANNEL PATROL SURVEY
- Sounded 12 June, 2023 by Prairie Engineers, P.C.
  - Horizontal Datum NAD83(2011) Missouri East, Vertical Datum NGVD29
  - Depths shown are below Minimum Pool (MP)
  - Legend for the navigation aids can be found at [nauticalcharts.noaa.gov/publications/us-chart-1.html](http://nauticalcharts.noaa.gov/publications/us-chart-1.html)
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|                            |              |
|----------------------------|--------------|
| Gage Records 12 June, 2023 |              |
| LD 24 TW                   | 9:00 = 16.46 |
| Rip Rap                    | 9:00 = 9.90  |
| Mosier                     | 9:00 = 34.70 |
| LD 25 Pool                 | 9:00 = 24.45 |

DATES OF SURVEY: 12 June, 2023  
 SCALE: ONE INCH = 400 FEET  
 FIELD BOOKS: \_\_\_\_\_  
 FILE NO.: \_\_\_\_\_  
 REQUEST NO.: \_\_\_\_\_

Approved: **Abednego Nkem**  
DEPUTY DISTRICT ENGINEER  
 Approved: **Jarrett Lancer**  
CIVIL ENGINEERING TECHNICIAN  
 Approved: **Jarrett Lancer**  
ASST. CHIEF OF SURVEY  
 Approved: **Darren Foray**  
CHIEF OF SURVEY  
 Date: 16 June, 2023

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 ST. LOUIS, MISSOURI  
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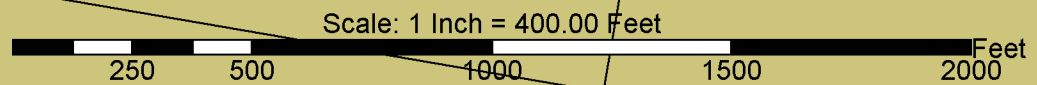
MIDDLE MISSISSIPPI RIVER  
 CHANNEL PATROL SURVEY  
 RIVER MILES 273.2 - 241.5

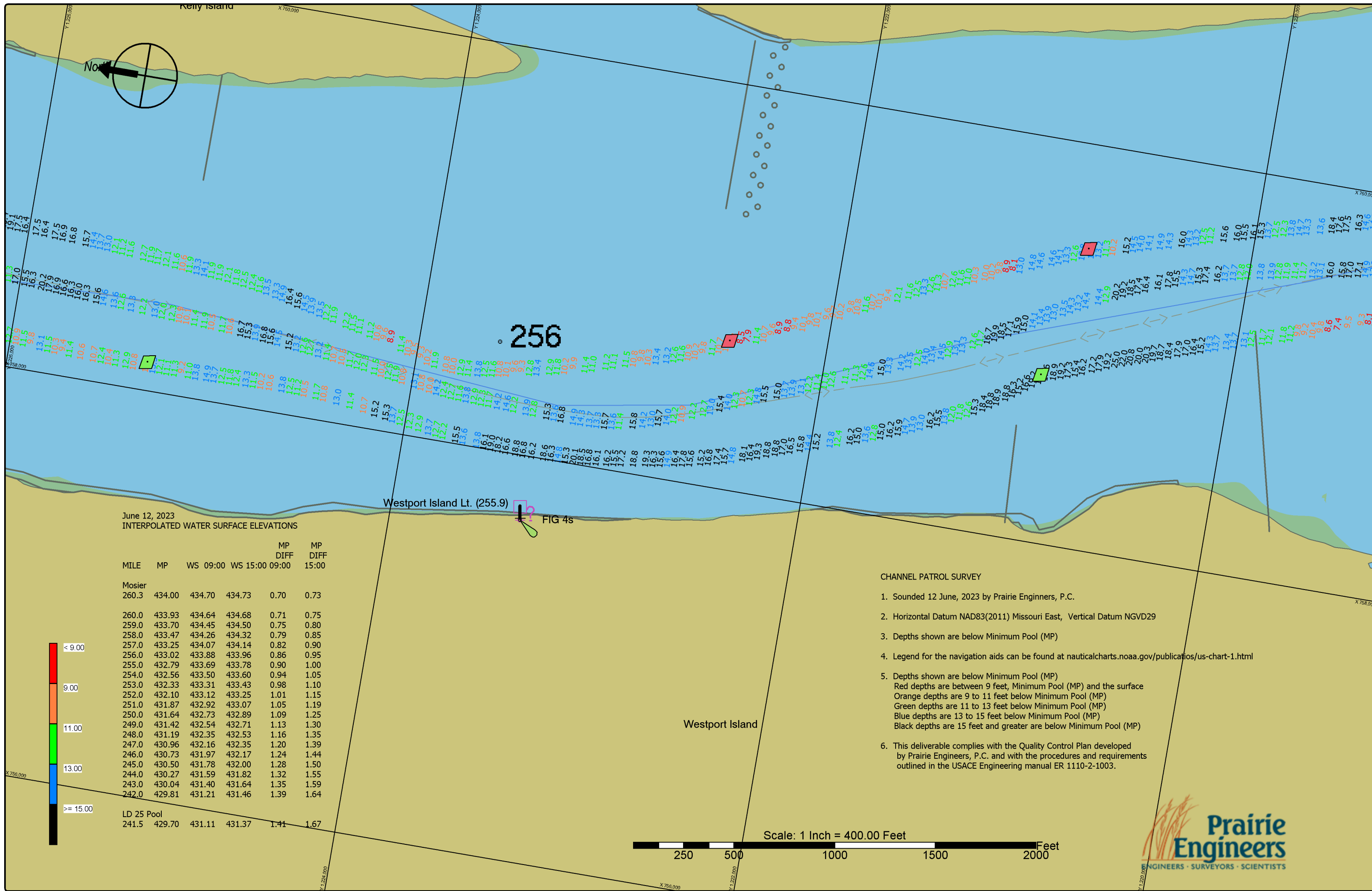
June 12, 2023  
INTERPOLATED WATER SURFACE ELEVATIONS

| MILE       | MP     | WS 09:00 | WS 15:00 | MP DIFF 09:00 | MP DIFF 15:00 |
|------------|--------|----------|----------|---------------|---------------|
| Mosier     |        |          |          |               |               |
| 260.3      | 434.00 | 434.70   | 434.73   | 0.70          | 0.73          |
| 260.0      | 433.93 | 434.64   | 434.68   | 0.71          | 0.75          |
| 259.0      | 433.70 | 434.45   | 434.50   | 0.75          | 0.80          |
| 258.0      | 433.47 | 434.26   | 434.32   | 0.79          | 0.85          |
| 257.0      | 433.25 | 434.07   | 434.14   | 0.82          | 0.90          |
| 256.0      | 433.02 | 433.88   | 433.96   | 0.86          | 0.95          |
| 255.0      | 432.79 | 433.69   | 433.78   | 0.90          | 1.00          |
| 254.0      | 432.56 | 433.50   | 433.60   | 0.94          | 1.05          |
| 253.0      | 432.33 | 433.31   | 433.43   | 0.98          | 1.10          |
| 252.0      | 432.10 | 433.12   | 433.25   | 1.01          | 1.15          |
| 251.0      | 431.87 | 432.92   | 433.07   | 1.05          | 1.19          |
| 250.0      | 431.64 | 432.73   | 432.89   | 1.09          | 1.25          |
| 249.0      | 431.42 | 432.54   | 432.71   | 1.13          | 1.30          |
| 248.0      | 431.19 | 432.35   | 432.53   | 1.16          | 1.35          |
| 247.0      | 430.96 | 432.16   | 432.35   | 1.20          | 1.39          |
| 246.0      | 430.73 | 431.97   | 432.17   | 1.24          | 1.44          |
| 245.0      | 430.50 | 431.78   | 432.00   | 1.28          | 1.50          |
| 244.0      | 430.27 | 431.59   | 431.82   | 1.32          | 1.55          |
| 243.0      | 430.04 | 431.40   | 431.64   | 1.35          | 1.59          |
| 242.0      | 429.81 | 431.21   | 431.46   | 1.39          | 1.64          |
| LD 25 Pool |        |          |          |               |               |
| 241.5      | 429.70 | 431.11   | 431.37   | 1.41          | 1.67          |

CHANNEL PATROL SURVEY

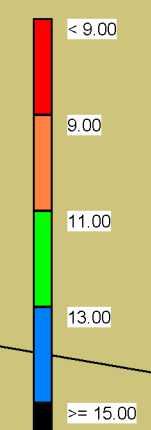
- Sounded 12 June, 2023 by Prairie Engineers, P.C.
- Horizontal Datum NAD83(2011) Missouri East, Vertical Datum NGVD29
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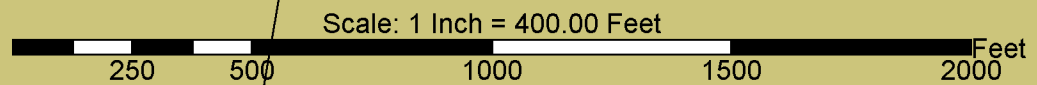
June 12, 2023  
INTERPOLATED WATER SURFACE ELEVATIONS

| MILE       | MP     | WS 09:00 | WS 15:00 | MP DIFF 09:00 | MP DIFF 15:00 |
|------------|--------|----------|----------|---------------|---------------|
| Mosier     |        |          |          |               |               |
| 260.3      | 434.00 | 434.70   | 434.73   | 0.70          | 0.73          |
| 260.0      | 433.93 | 434.64   | 434.68   | 0.71          | 0.75          |
| 259.0      | 433.70 | 434.45   | 434.50   | 0.75          | 0.80          |
| 258.0      | 433.47 | 434.26   | 434.32   | 0.79          | 0.85          |
| 257.0      | 433.25 | 434.07   | 434.14   | 0.82          | 0.90          |
| 256.0      | 433.02 | 433.88   | 433.96   | 0.86          | 0.95          |
| 255.0      | 432.79 | 433.69   | 433.78   | 0.90          | 1.00          |
| 254.0      | 432.56 | 433.50   | 433.60   | 0.94          | 1.05          |
| 253.0      | 432.33 | 433.31   | 433.43   | 0.98          | 1.10          |
| 252.0      | 432.10 | 433.12   | 433.25   | 1.01          | 1.15          |
| 251.0      | 431.87 | 432.92   | 433.07   | 1.05          | 1.19          |
| 250.0      | 431.64 | 432.73   | 432.89   | 1.09          | 1.25          |
| 249.0      | 431.42 | 432.54   | 432.71   | 1.13          | 1.30          |
| 248.0      | 431.19 | 432.35   | 432.53   | 1.16          | 1.35          |
| 247.0      | 430.96 | 432.16   | 432.35   | 1.20          | 1.39          |
| 246.0      | 430.73 | 431.97   | 432.17   | 1.24          | 1.44          |
| 245.0      | 430.50 | 431.78   | 432.00   | 1.28          | 1.50          |
| 244.0      | 430.27 | 431.59   | 431.82   | 1.32          | 1.55          |
| 243.0      | 430.04 | 431.40   | 431.64   | 1.35          | 1.59          |
| 242.0      | 429.81 | 431.21   | 431.46   | 1.39          | 1.64          |
| LD 25 Pool |        |          |          |               |               |
| 241.5      | 429.70 | 431.11   | 431.37   | 1.41          | 1.67          |



CHANNEL PATROL SURVEY

- Sounded 12 June, 2023 by Prairie Enginers, P.C.
- Horizontal Datum NAD83(2011) Missouri East, Vertical Datum NGVD29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at [nauticalcharts.noaa.gov/publications/us-chart-1.html](http://nauticalcharts.noaa.gov/publications/us-chart-1.html)
- Depths shown are below Minimum Pool (MP)  
 Red depths are between 9 feet, Minimum Pool (MP) and the surface  
 Orange depths are 9 to 11 feet below Minimum Pool (MP)  
 Green depths are 11 to 13 feet below Minimum Pool (MP)  
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 Black depths are 15 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



|                            |               |
|----------------------------|---------------|
| Gage Records 12 June, 2023 | 15:00 = 16.46 |
| LD 24 TW                   | 9:00 = 9.90   |
| Rip Rap                    | 9:00 = 34.70  |
| Mosier                     | 9:00 = 24.11  |
| LD 25 Pool                 | 9:00 = 24.45  |

DATES OF SURVEY: 12 June, 2023

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

FILE NO.: \_\_\_\_\_

REQUEST NO.: \_\_\_\_\_

Approved: Abderrahmou Nkem  
REGISTERED PROFESSIONAL ENGINEER

Approved: Jarrett Lancer  
CIVIL ENGINEERING TECHNICIAN

Approved: Jarrett Lancer  
ASST. CHIEF OF SURVEY

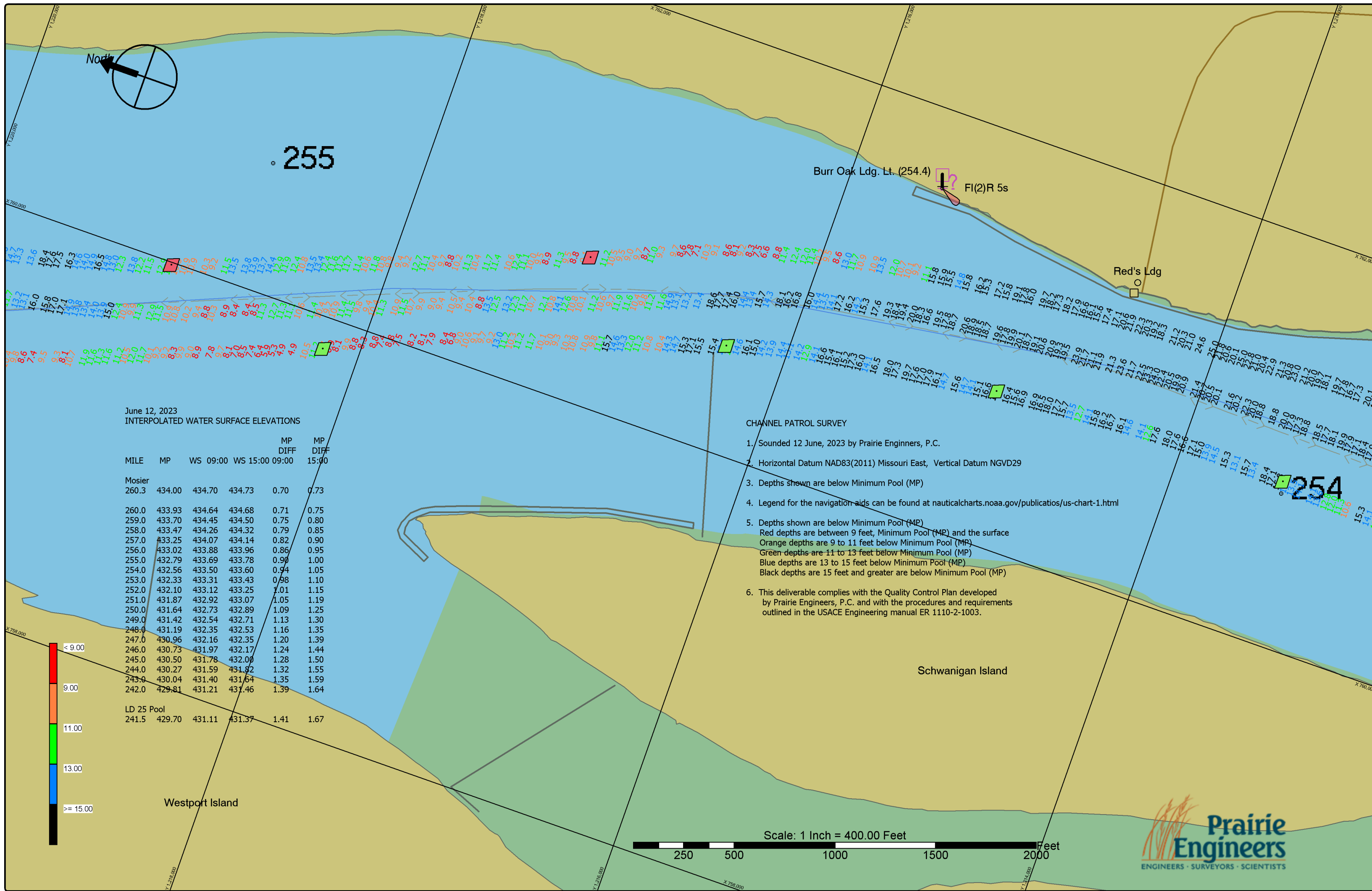
Approved: Darren Foray  
CHIEF OF SURVEY

Date: 16 June, 2023

U.S. ARMY CORPS OF ENGINEERS  
 ST. LOUIS DISTRICT  
 ST. LOUIS, MISSOURI

SURVEYED BY  
 PRAIRIE ENGINEERS, P.C.  
 404 N. MAIN STREET  
 COLUMBIA, IL. 62236

MIDDLE MISSISSIPPI RIVER  
 CHANNEL PATROL SURVEY  
 RIVER MILES 273.2 - 241.5

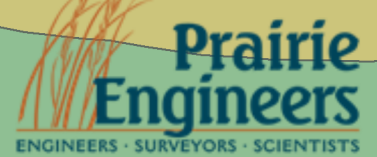
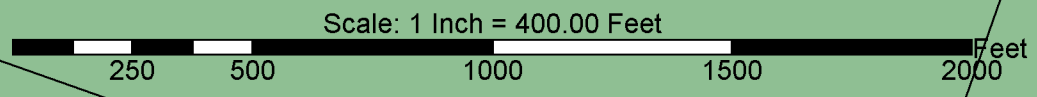


June 12, 2023  
INTERPOLATED WATER SURFACE ELEVATIONS

| MILE       | MP     | WS 09:00 | WS 15:00 | MP 09:00 | MP 15:00 |
|------------|--------|----------|----------|----------|----------|
| Mosier     |        |          |          |          |          |
| 260.3      | 434.00 | 434.70   | 434.73   | 0.70     | 0.73     |
| 260.0      | 433.93 | 434.64   | 434.68   | 0.71     | 0.75     |
| 259.0      | 433.70 | 434.45   | 434.50   | 0.75     | 0.80     |
| 258.0      | 433.47 | 434.26   | 434.32   | 0.79     | 0.85     |
| 257.0      | 433.25 | 434.07   | 434.14   | 0.82     | 0.90     |
| 256.0      | 433.02 | 433.88   | 433.96   | 0.86     | 0.95     |
| 255.0      | 432.79 | 433.69   | 433.78   | 0.90     | 1.00     |
| 254.0      | 432.56 | 433.50   | 433.60   | 0.94     | 1.05     |
| 253.0      | 432.33 | 433.31   | 433.43   | 0.98     | 1.10     |
| 252.0      | 432.10 | 433.12   | 433.25   | 1.01     | 1.15     |
| 251.0      | 431.87 | 432.92   | 433.07   | 1.05     | 1.19     |
| 250.0      | 431.64 | 432.73   | 432.89   | 1.09     | 1.25     |
| 249.0      | 431.42 | 432.54   | 432.71   | 1.13     | 1.30     |
| 248.0      | 431.19 | 432.35   | 432.53   | 1.16     | 1.35     |
| 247.0      | 430.96 | 432.16   | 432.35   | 1.20     | 1.39     |
| 246.0      | 430.73 | 431.97   | 432.17   | 1.24     | 1.44     |
| 245.0      | 430.50 | 431.78   | 432.00   | 1.28     | 1.50     |
| 244.0      | 430.27 | 431.59   | 431.82   | 1.32     | 1.55     |
| 243.0      | 430.04 | 431.40   | 431.64   | 1.35     | 1.59     |
| 242.0      | 429.81 | 431.21   | 431.46   | 1.39     | 1.64     |
| LD 25 Pool |        |          |          |          |          |
| 241.5      | 429.70 | 431.11   | 431.37   | 1.41     | 1.67     |

CHANNEL PATROL SURVEY

- Sounded 12 June, 2023 by Prairie Engineers, P.C.
- Horizontal Datum NAD83(2011) Missouri East, Vertical Datum NGVD29
- Depths shown are below Minimum Pool (MP)
- Legend for the navigation aids can be found at [nauticalcharts.noaa.gov/publications/us-chart-1.html](http://nauticalcharts.noaa.gov/publications/us-chart-1.html)
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 Black depths are 15 feet and greater are below Minimum Pool (MP)
- This deliverable complies with the Quality Control Plan developed by Prairie Engineers, P.C. and with the procedures and requirements outlined in the USACE Engineering manual ER 1110-2-1003.



Gage Records 12 June, 2023

|            |              |               |
|------------|--------------|---------------|
| LD 24 TW   | 9:00 = 16.46 | 15:00 = 16.46 |
| Rip Rap    | 9:00 = 9.90  | 15:00 = 9.90  |
| Mosier     | 9:00 = 34.70 | 15:00 = 34.69 |
| LD 25 Pool | 9:00 = 24.11 | 15:00 = 24.45 |

|                  |                     |
|------------------|---------------------|
| DATES OF SURVEY: | 12 June, 2023       |
| SCALE:           | ONE INCH = 400 FEET |
| FIELD BOOKS:     |                     |
| FILE NO.:        |                     |
| REQUEST NO.:     |                     |

Approved: **Abednego Nkem**  
DEPUTY DISTRICT ENGINEER

Approved: **Jarrett Langer**  
CIVIL ENGINEERING TECHNICIAN

Approved: **Jarrett Langer**  
ASST. CHIEF OF SURVEY

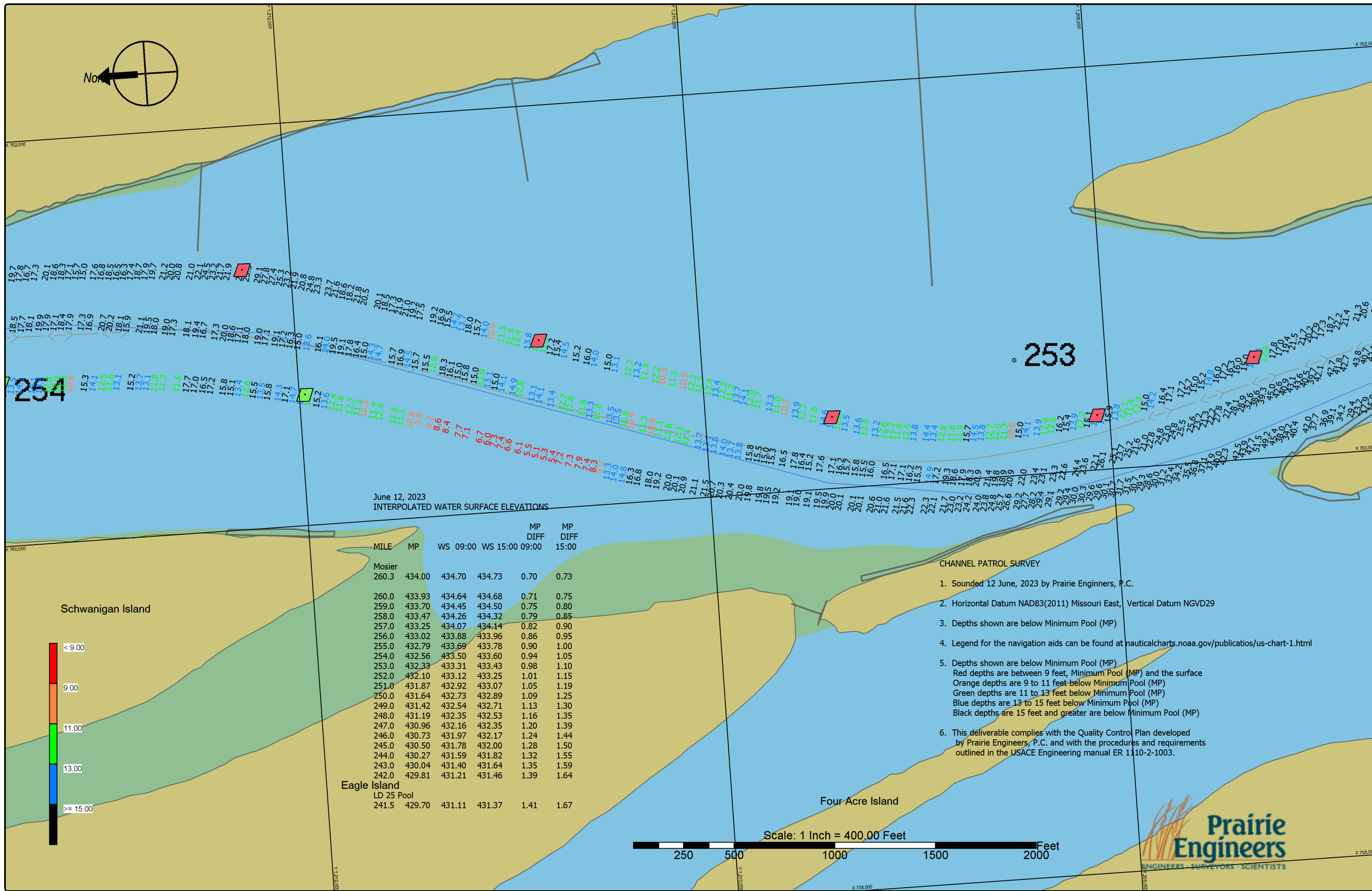
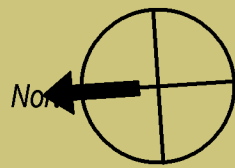
Approved: **Darren Foray**  
CHIEF OF SURVEY

Date: 16 June, 2023

U.S. ARMY CORPS OF ENGINEERS  
 ST. LOUIS DISTRICT  
 ST. LOUIS, MISSOURI

SURVEYED BY  
 PRAIRIE ENGINEERS, P.C.  
 404 N. MAIN STREET  
 COLUMBIA, IL. 62236

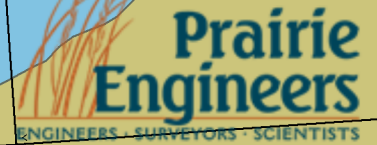
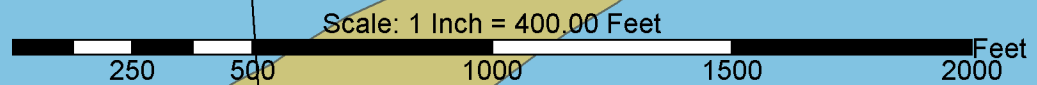
MIDDLE MISSISSIPPI RIVER  
 CHANNEL PATROL SURVEY  
 RIVER MILES 273.2 - 241.5



June 12, 2023  
INTERPOLATED WATER SURFACE ELEVATIONS

| MILE         | MP     | WS 09:00 | WS 15:00 | MP DIFF 09:00 | MP DIFF 15:00 |
|--------------|--------|----------|----------|---------------|---------------|
| Mosier       |        |          |          |               |               |
| 260.3        | 434.00 | 434.70   | 434.73   | 0.70          | 0.73          |
| 260.0        | 433.93 | 434.64   | 434.68   | 0.71          | 0.75          |
| 259.0        | 433.70 | 434.45   | 434.50   | 0.75          | 0.80          |
| 258.0        | 433.47 | 434.26   | 434.32   | 0.79          | 0.85          |
| 257.0        | 433.25 | 434.07   | 434.14   | 0.82          | 0.90          |
| 256.0        | 433.02 | 433.88   | 433.96   | 0.86          | 0.95          |
| 255.0        | 432.79 | 433.69   | 433.78   | 0.90          | 1.00          |
| 254.0        | 432.56 | 433.50   | 433.60   | 0.94          | 1.05          |
| 253.0        | 432.33 | 433.31   | 433.43   | 0.98          | 1.10          |
| 252.0        | 432.10 | 433.12   | 433.25   | 1.01          | 1.15          |
| 251.0        | 431.87 | 432.92   | 433.07   | 1.05          | 1.19          |
| 250.0        | 431.64 | 432.73   | 432.89   | 1.09          | 1.25          |
| 249.0        | 431.42 | 432.54   | 432.71   | 1.13          | 1.30          |
| 248.0        | 431.19 | 432.35   | 432.53   | 1.16          | 1.35          |
| 247.0        | 430.96 | 432.16   | 432.35   | 1.20          | 1.39          |
| 246.0        | 430.73 | 431.97   | 432.17   | 1.24          | 1.44          |
| 245.0        | 430.50 | 431.78   | 432.00   | 1.28          | 1.50          |
| 244.0        | 430.27 | 431.59   | 431.82   | 1.32          | 1.55          |
| 243.0        | 430.04 | 431.40   | 431.64   | 1.35          | 1.59          |
| 242.0        | 429.81 | 431.21   | 431.46   | 1.39          | 1.64          |
| Eagle Island |        |          |          |               |               |
| LD 25 Pool   |        |          |          |               |               |
| 241.5        | 429.70 | 431.11   | 431.37   | 1.41          | 1.67          |

- CHANNEL PATROL SURVEY
- Sounded 12 June, 2023 by Prairie Engineers, P.C.
  - Horizontal Datum NAD83(2011) Missouri East, Vertical Datum NGVD29
  - Depths shown are below Minimum Pool (MP)
  - Legend for the navigation aids can be found at [nauticalcharts.noaa.gov/publications/us-chart-1.html](http://nauticalcharts.noaa.gov/publications/us-chart-1.html)
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Gage Records 12 June, 2023

|            |               |
|------------|---------------|
| LD 24 TW   | 9:00 = 16.46  |
| Rip Rap    | 9:00 = 9.90   |
| Mosier     | 9:00 = 34.70  |
| LD 25 Pool | 9:00 = 24.11  |
|            | 15:00 = 16.46 |
|            | 15:00 = 9.90  |
|            | 15:00 = 34.70 |
|            | 15:00 = 24.45 |

DATES OF SURVEY: 12 June, 2023

SCALE: ONE INCH = 400 FEET

FIELD BOOKS:

FILE NO.: REQUEST NO.:

Approved: Abdennour Nkem  
REGISTERED PROFESSIONAL ENGINEER

Approved: Jarrett Lancer  
CIVIL ENGINEERING TECHNICIAN

Approved: Jarrett Lancer  
ASST. CHIEF OF SURVEY

Approved: Darren Foray  
CHIEF OF SURVEY

Date: 16 June, 2023

U.S. ARMY CORPS OF ENGINEERS  
 ST. LOUIS DISTRICT  
 ST. LOUIS, MISSOURI

SURVEYED BY  
 PRAIRIE ENGINEERS, P.C.  
 404 N. MAIN STREET  
 COLUMBIA, IL. 62236

MIDDLE MISSISSIPPI RIVER  
 CHANNEL PATROL SURVEY  
 RIVER MILES 273.2 - 241.5





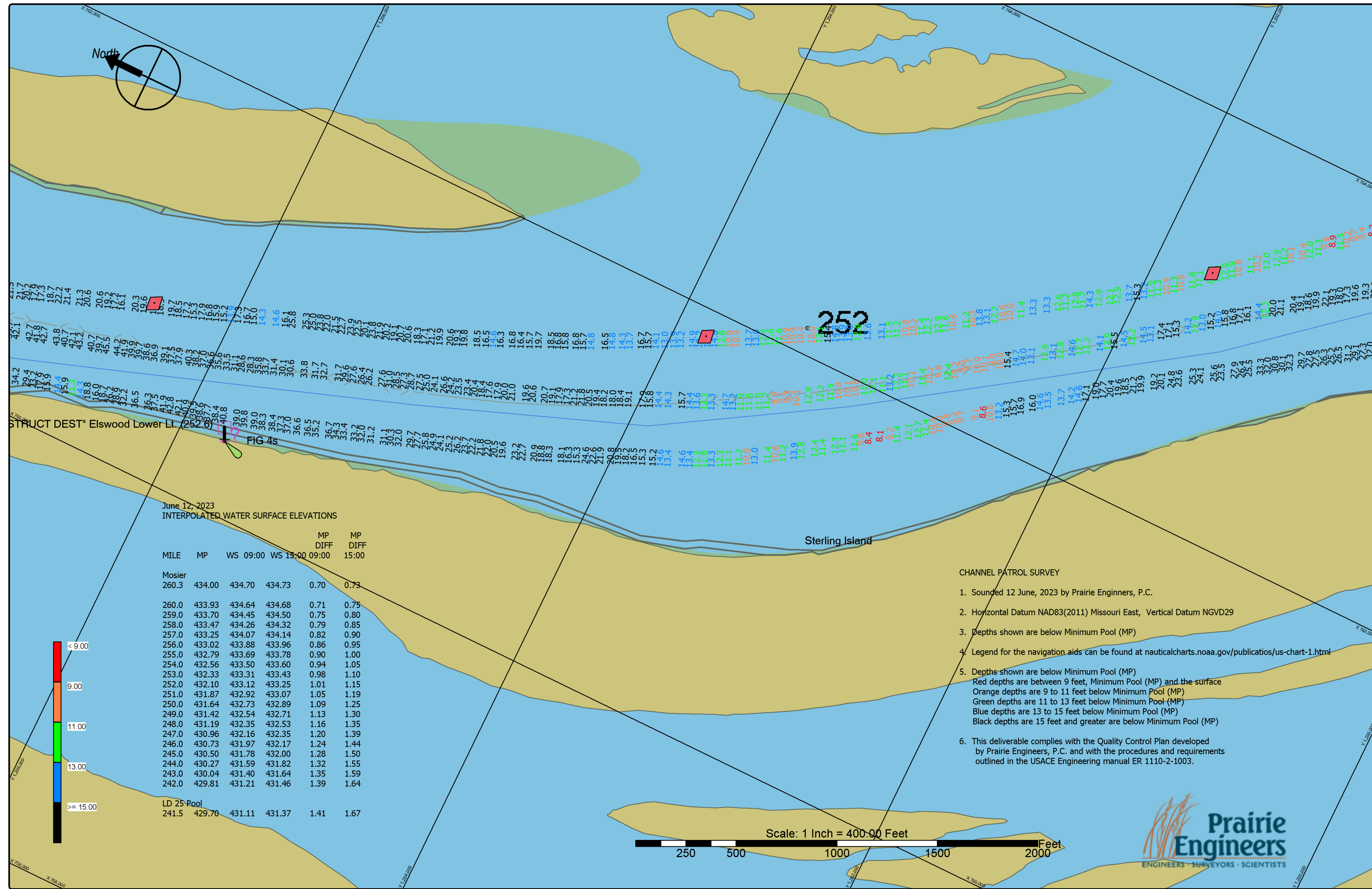
|                            |                       |               |
|----------------------------|-----------------------|---------------|
| Gage Records 12 June, 2023 | LD 24 TW 9:00 = 16.46 | 15:00 = 16.46 |
| Rip Rap Mosier             | 9:00 = 9.90           | 15:00 = 9.90  |
| LD 25 Pool                 | 9:00 = 34.70          | 15:00 = 34.69 |
|                            | 9:00 = 24.11          | 15:00 = 24.45 |

|                  |                     |
|------------------|---------------------|
| DATES OF SURVEY: | 12 June, 2023       |
| SCALE:           | ONE INCH = 400 FEET |
| FIELD BOOKS:     |                     |
| FILE NO.:        |                     |
| REQUEST NO.:     |                     |

Approved: Abdennour Nkem  
 RELAY CHIEF OF SURVEY  
 Approved: Jarrett Lancer  
 CIVIL ENGINEERING TECHNICIAN  
 Approved: Jarrett Lancer  
 ASST. CHIEF OF SURVEY  
 Approved: Darren Foray  
 CHIEF OF SURVEY  
 Date: 16 June, 2023

U.S. ARMY CORPS OF ENGINEERS  
 ST. LOUIS DISTRICT  
 ST. LOUIS, MISSOURI  
 SURVEYED BY  
 PRAIRIE ENGINEERS, P.C.  
 404 N. MAIN STREET  
 COLUMBIA, IL. 62236

MIDDLE MISSISSIPPI RIVER  
 CHANNEL PATROL SURVEY  
 RIVER MILES 273.2 - 241.5



June 12, 2023  
 INTERPOLATED WATER SURFACE ELEVATIONS

| MILE       | MP     | WS 09:00 | WS 15:00 | MP DIFF 09:00 | MP DIFF 15:00 |
|------------|--------|----------|----------|---------------|---------------|
| Mosier     |        |          |          |               |               |
| 260.3      | 434.00 | 434.70   | 434.73   | 0.70          | 0.73          |
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| 258.0      | 433.47 | 434.26   | 434.32   | 0.79          | 0.85          |
| 257.0      | 433.25 | 434.07   | 434.14   | 0.82          | 0.90          |
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| 255.0      | 432.79 | 433.69   | 433.78   | 0.90          | 1.00          |
| 254.0      | 432.56 | 433.50   | 433.60   | 0.94          | 1.05          |
| 253.0      | 432.33 | 433.31   | 433.43   | 0.98          | 1.10          |
| 252.0      | 432.10 | 433.12   | 433.25   | 1.01          | 1.15          |
| 251.0      | 431.87 | 432.92   | 433.07   | 1.05          | 1.19          |
| 250.0      | 431.64 | 432.73   | 432.89   | 1.09          | 1.25          |
| 249.0      | 431.42 | 432.54   | 432.71   | 1.13          | 1.30          |
| 248.0      | 431.19 | 432.35   | 432.53   | 1.16          | 1.35          |
| 247.0      | 430.96 | 432.16   | 432.35   | 1.20          | 1.39          |
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| 245.0      | 430.50 | 431.78   | 432.00   | 1.28          | 1.50          |
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| 243.0      | 430.04 | 431.40   | 431.64   | 1.35          | 1.59          |
| 242.0      | 429.81 | 431.21   | 431.46   | 1.39          | 1.64          |
| LD 25 Pool |        |          |          |               |               |
| 241.5      | 429.70 | 431.11   | 431.37   | 1.41          | 1.67          |

CHANNEL PATROL SURVEY

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