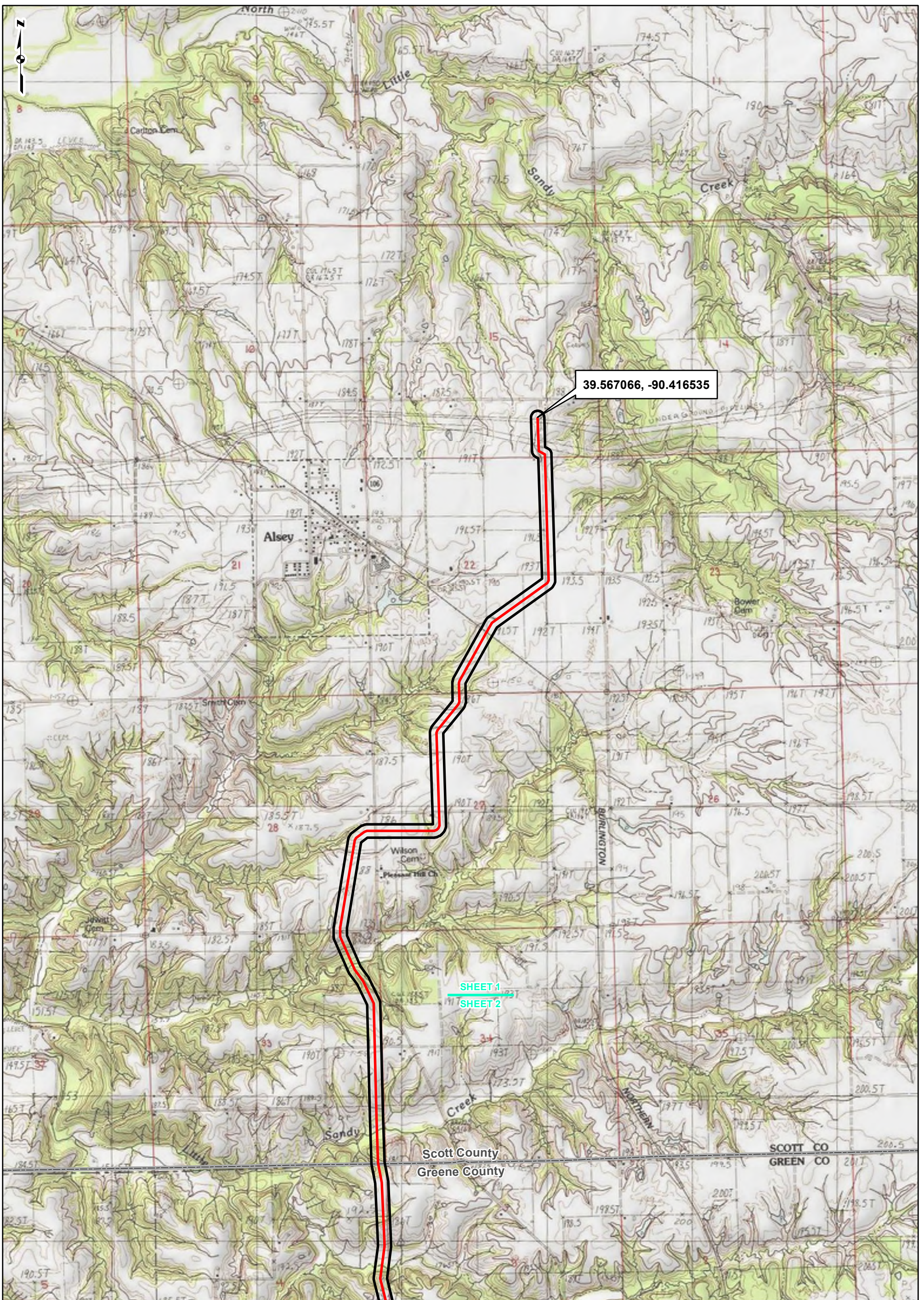
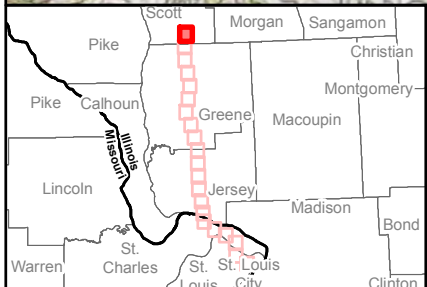


FIGURES



39.567066, -90.416535

SHEET 1
SHEET 2



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1989), ELSAN (1995), FLOISSANT (1989), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI. OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

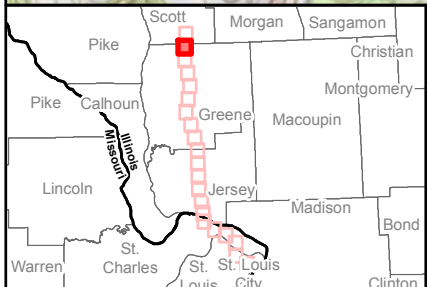
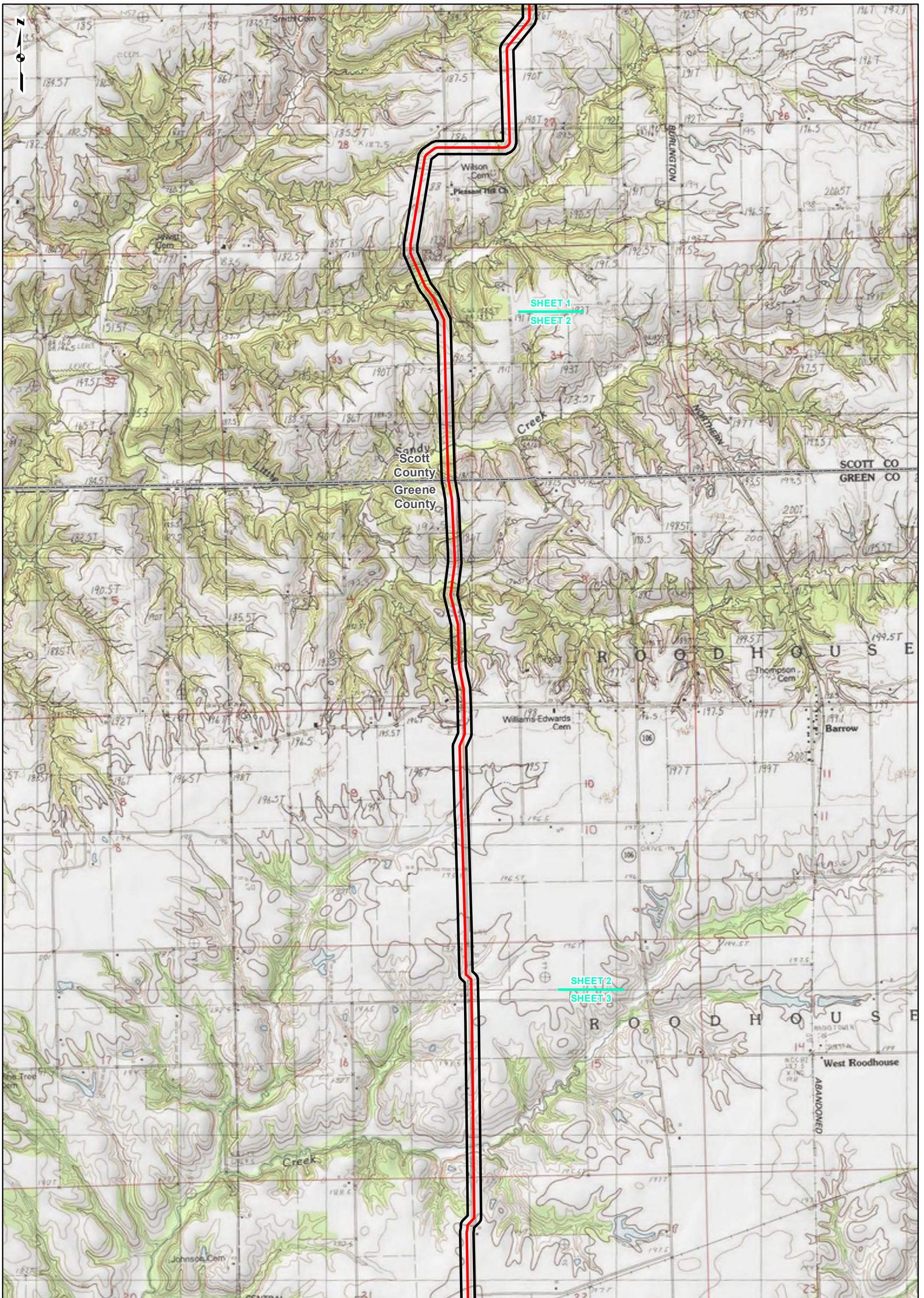
- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 1 OF 21

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1983), ELSAN (1995), FLOISSANT (1995), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

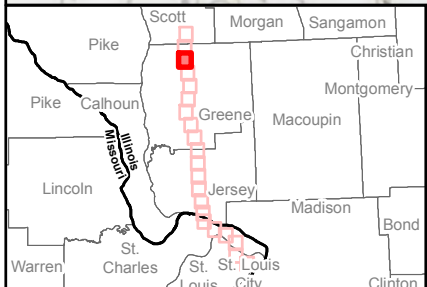
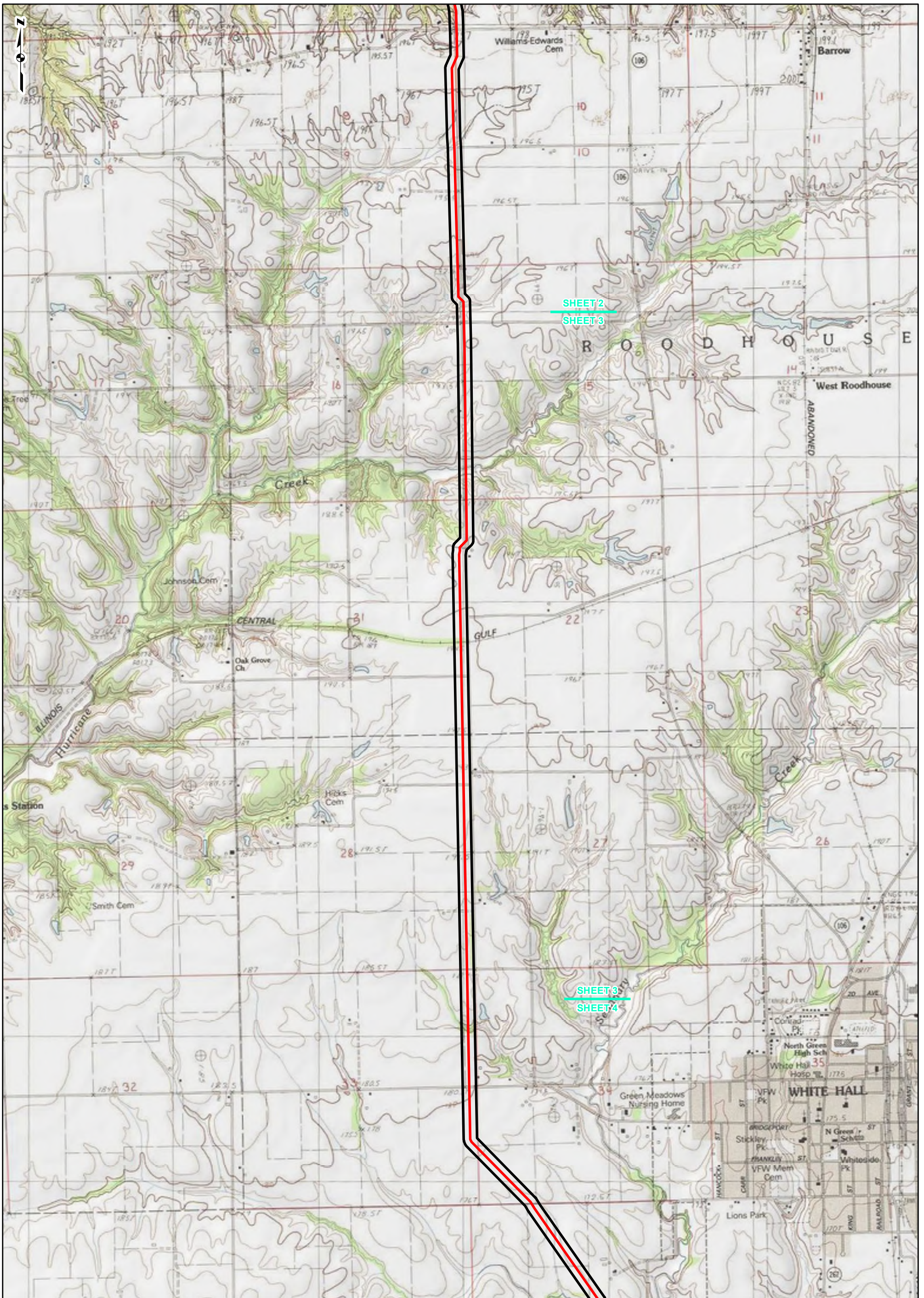
0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP
SHEET 2 OF 21

SPiRE STL PIPELINE PROJECT

gaiconsultants

DRAWN BY: PMH DATE: 4/20/2017
CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAN (1995), FLOISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

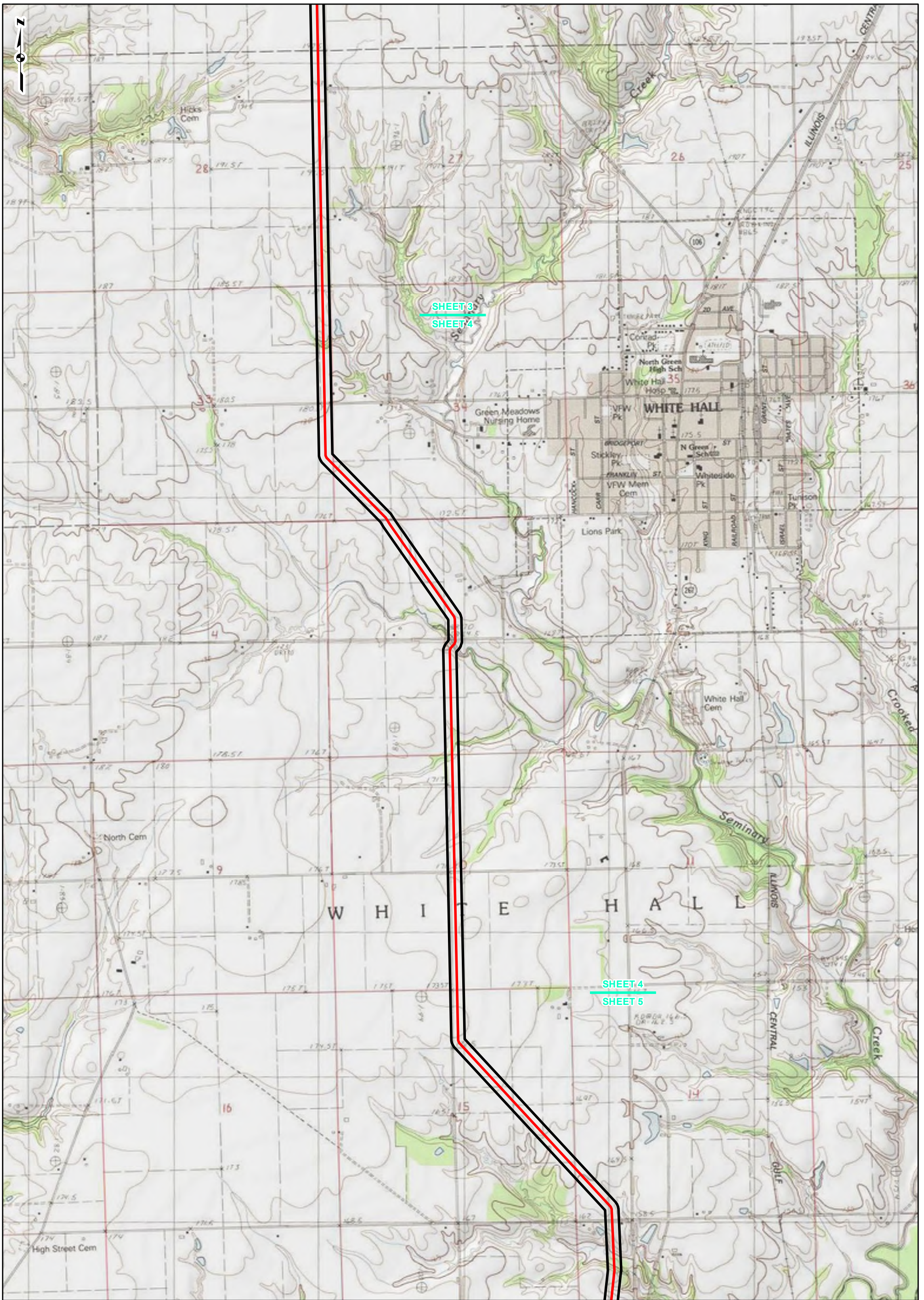
0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 3 OF 21

SPiRE STL PIPELINE PROJECT

gai consultants

DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1998), ELSA (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- COUNTY BOUNDARY
- STATE BOUNDARY

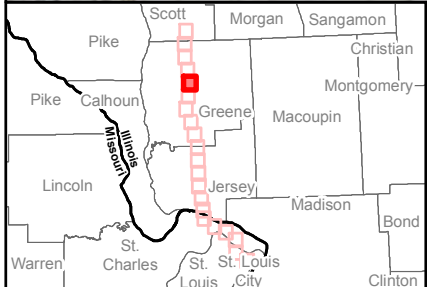
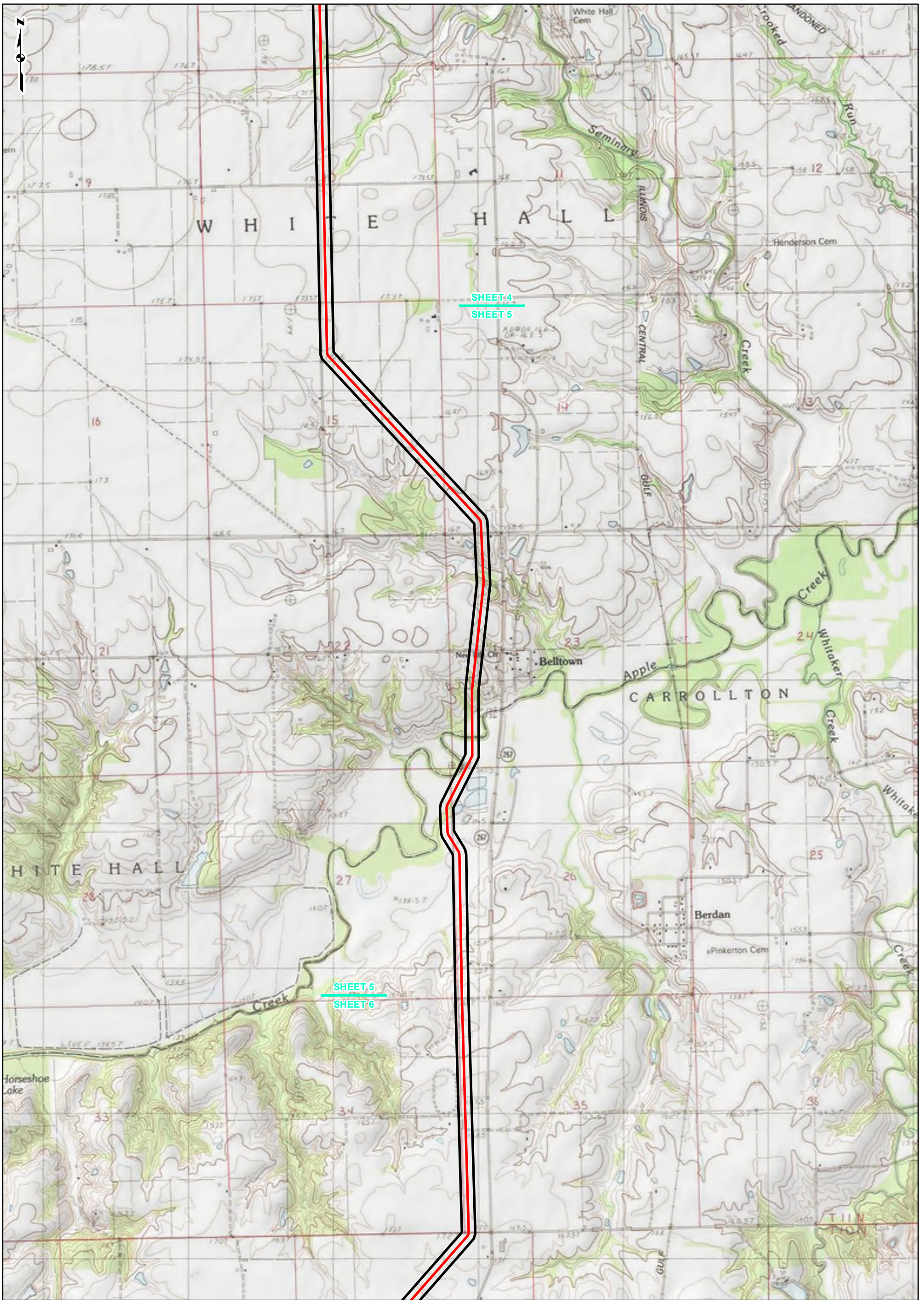
0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP
SHEET 4 OF 21

SPiRE STL PIPELINE PROJECT

gai consultants

DRAWN BY: PMH DATE: 4/20/2017
CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1983), ELSA (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI. OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

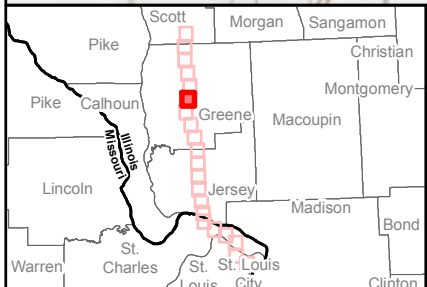
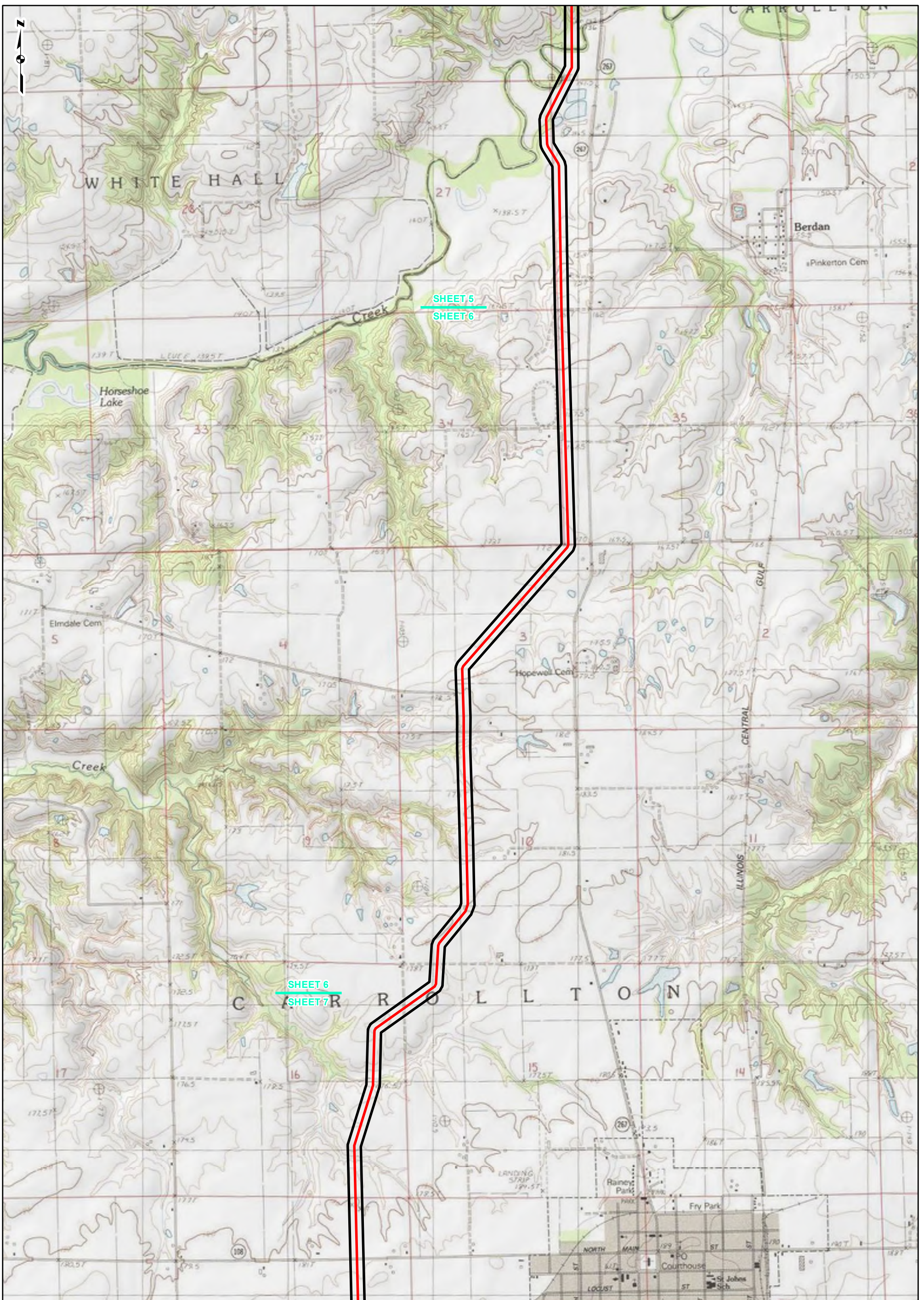
- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 5 OF 21

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1998), ELSA (1995), FLOISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

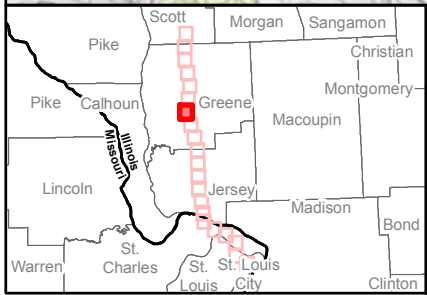
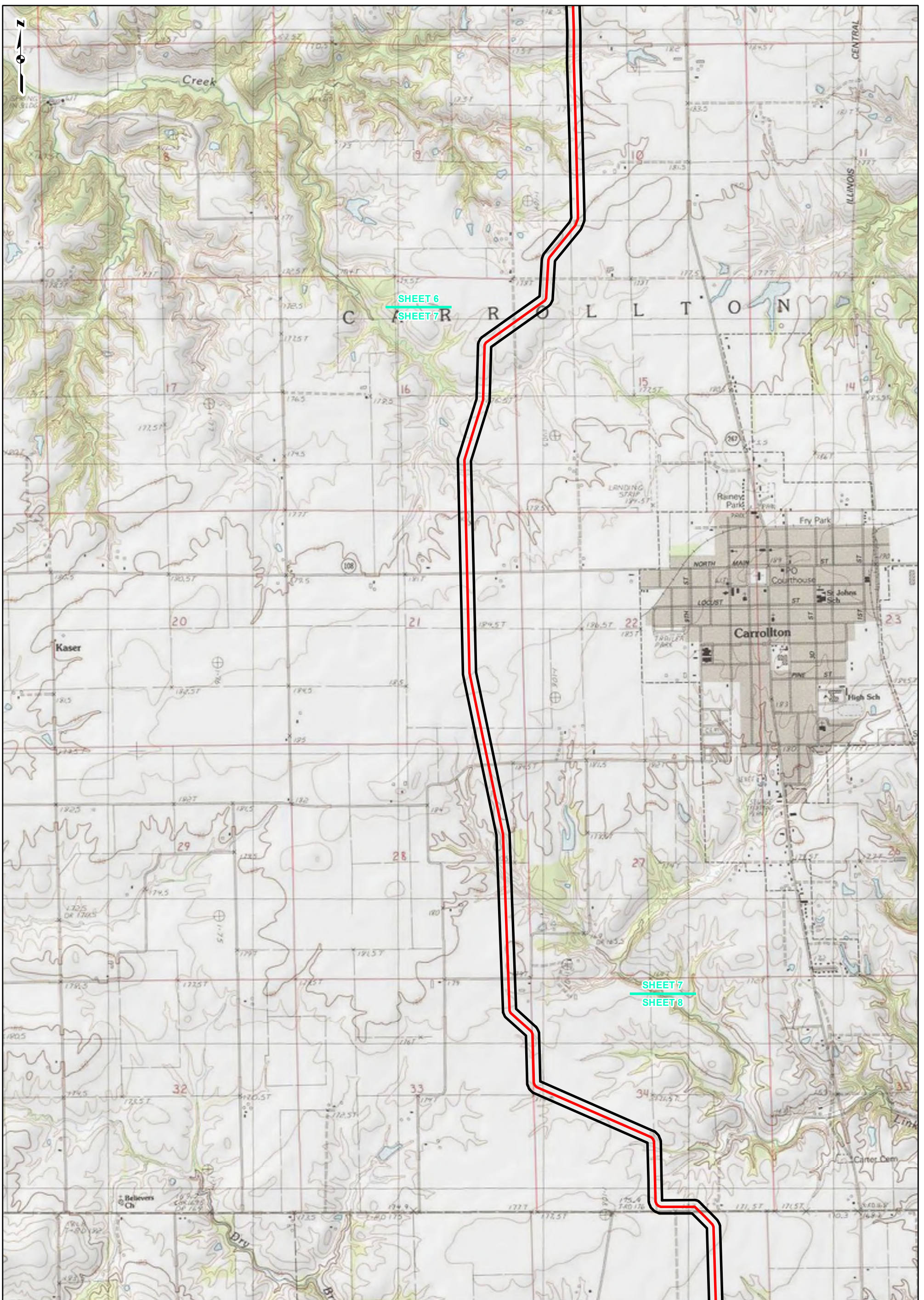
PROJECT LOCATION MAP SHEET 6 OF 21

SPIRE STL PIPELINE PROJECT

gai consultants

DRAWN BY: PMH
CHECKED: EFJ

DATE: 4/20/2017
APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1989), ELSA (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

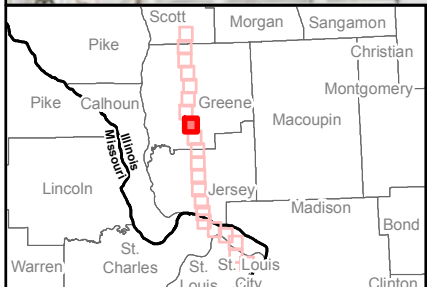
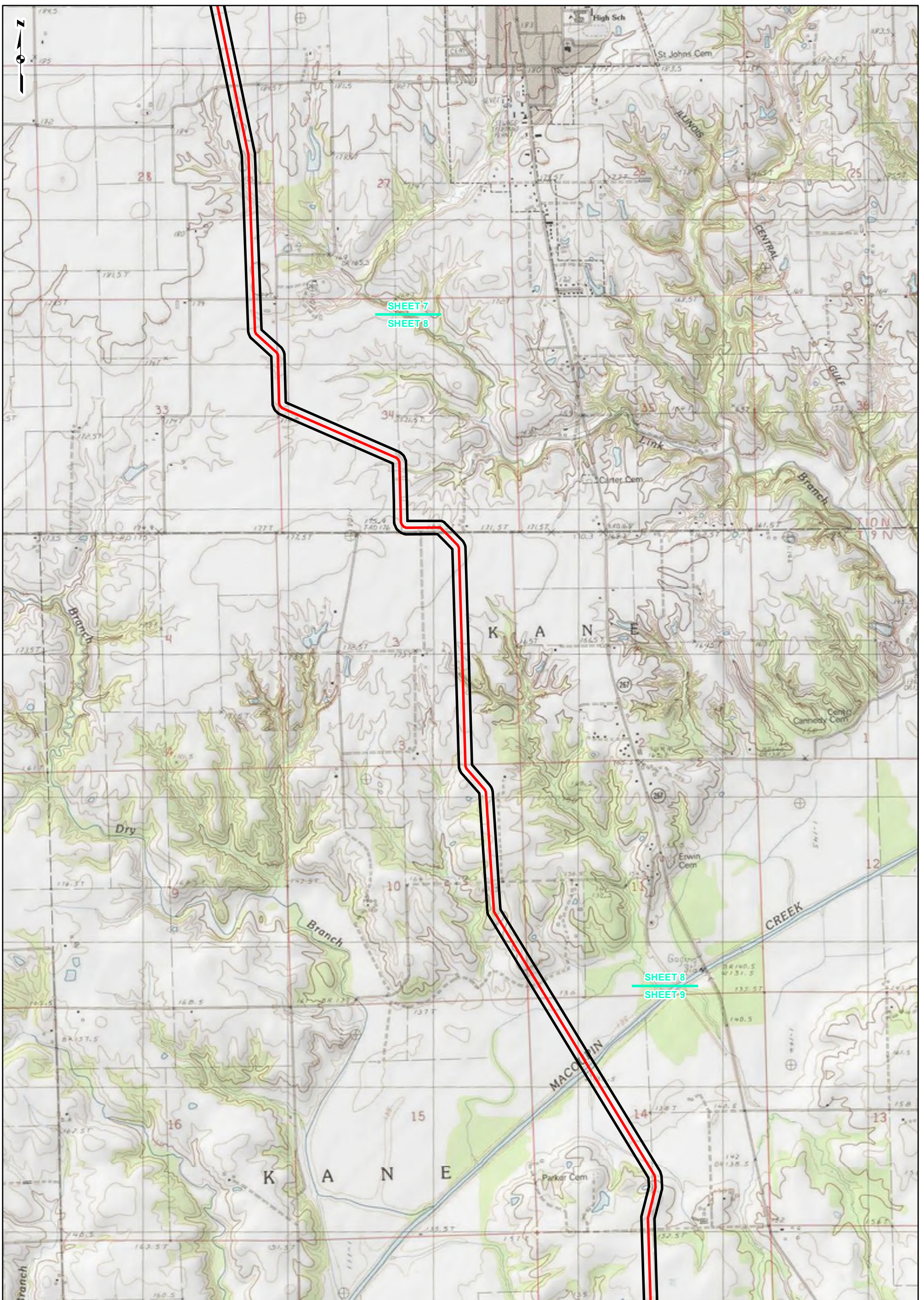
- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 7 OF 21

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1988), ELSAN (1995), FLOISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

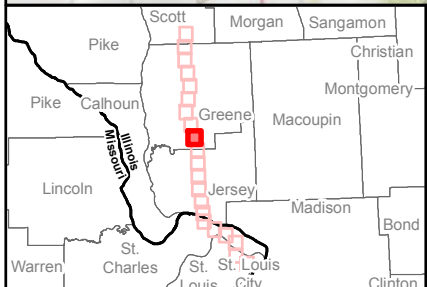
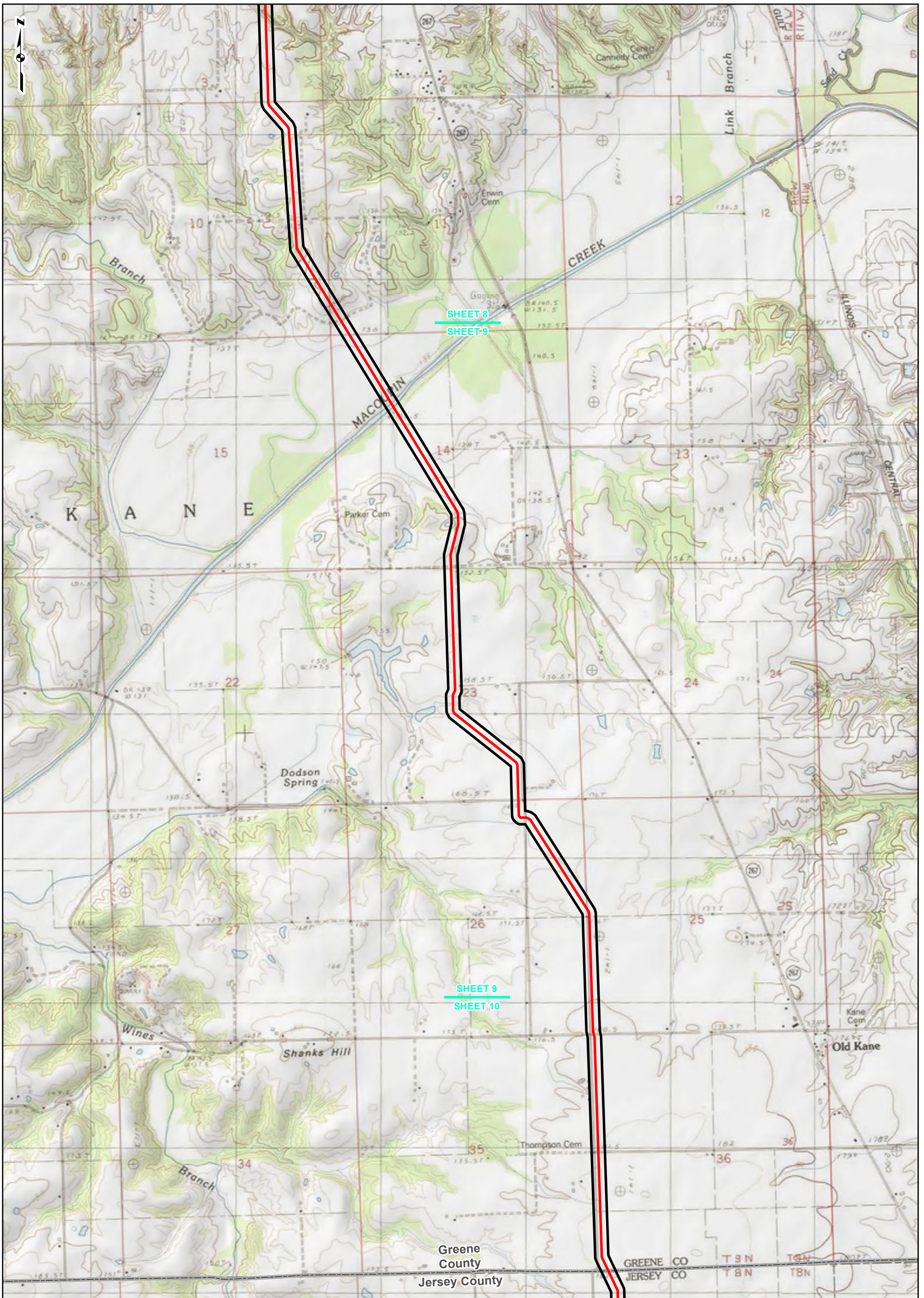
- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000
Feet

**PROJECT LOCATION MAP
SHEET 8 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1983), ELSA (1995), FLOISSANT (1983), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

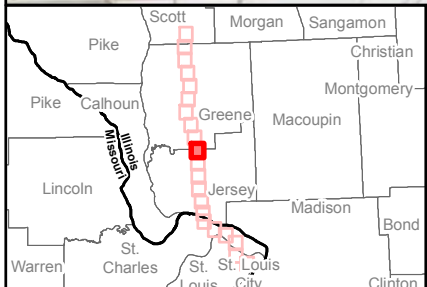
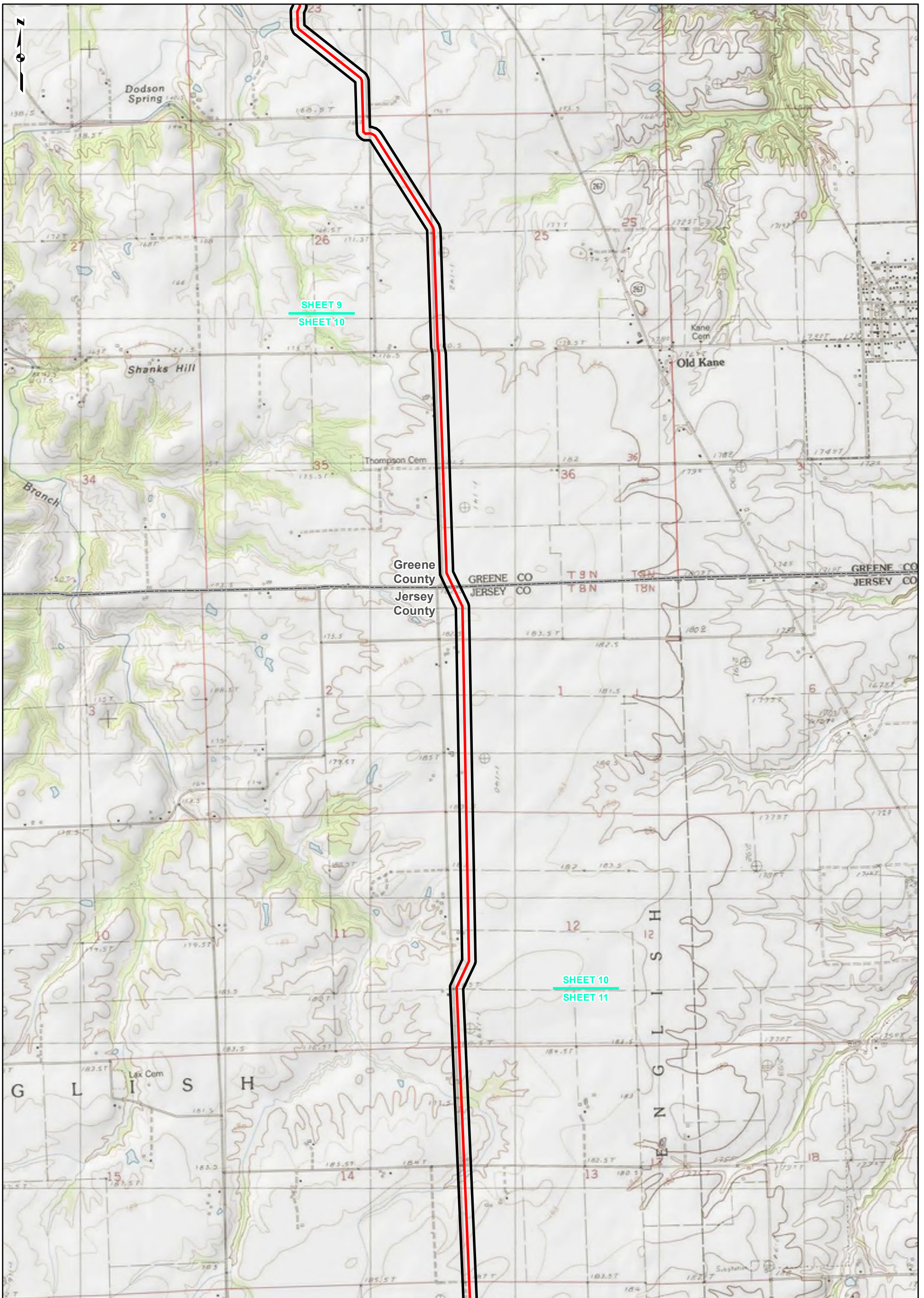
- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 9 OF 21

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSA (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

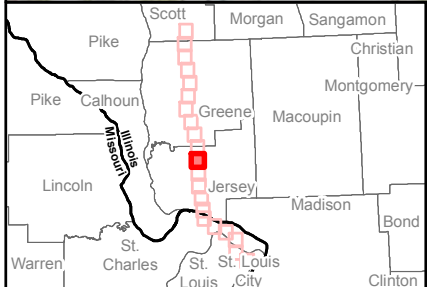
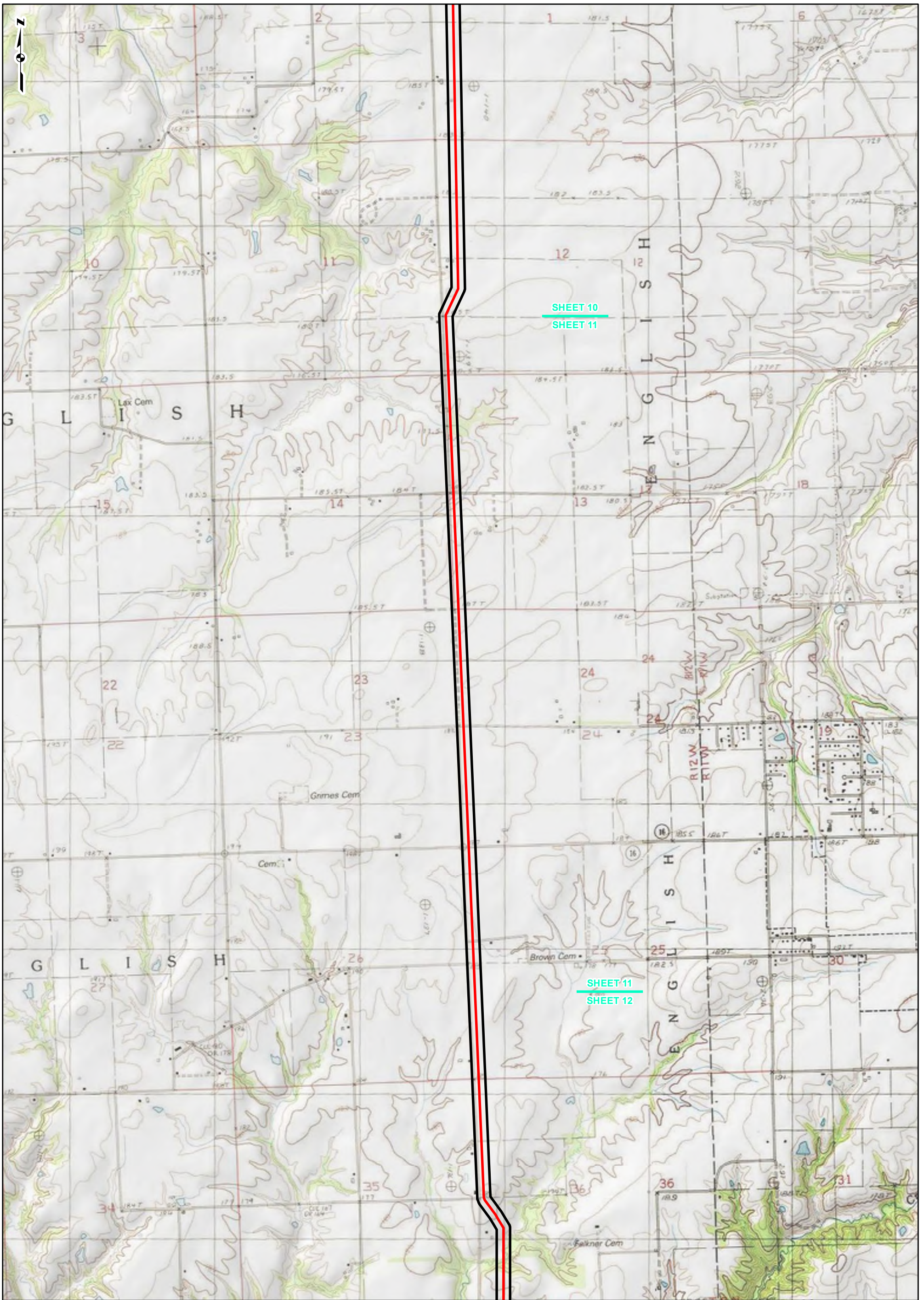
- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 10 OF 21

gaiconsultants **spire** **STL PIPELINE PROJECT**

DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1983), ELSAN (1995), FLOISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI. OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- NORTH COUNTY EXTENSION
- 300-FOOT CORRIDOR
- COUNTY BOUNDARY
- STATE BOUNDARY

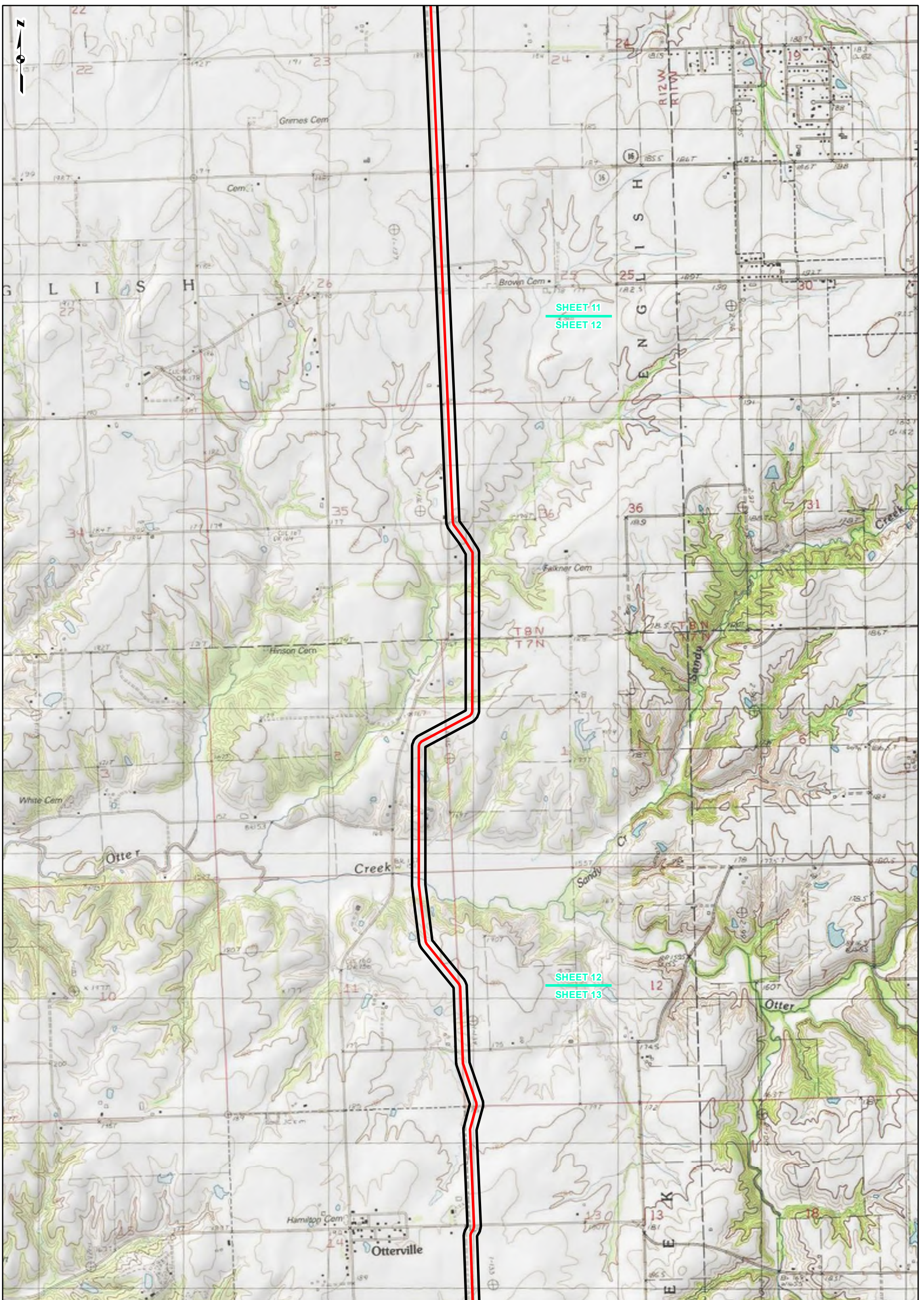
0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP
SHEET 11 OF 21

SPiRE STL PIPELINE PROJECT

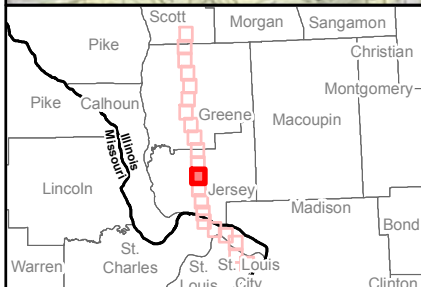
gai consultants **spire**

DRAWN BY: PMH DATE: 4/20/2017
CHECKED: EFJ APPROVED: TCW



SHEET 11
SHEET 12

SHEET 12
SHEET 13



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1998), ELSAN (1995), FLOISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

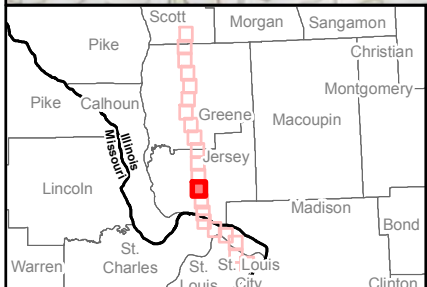
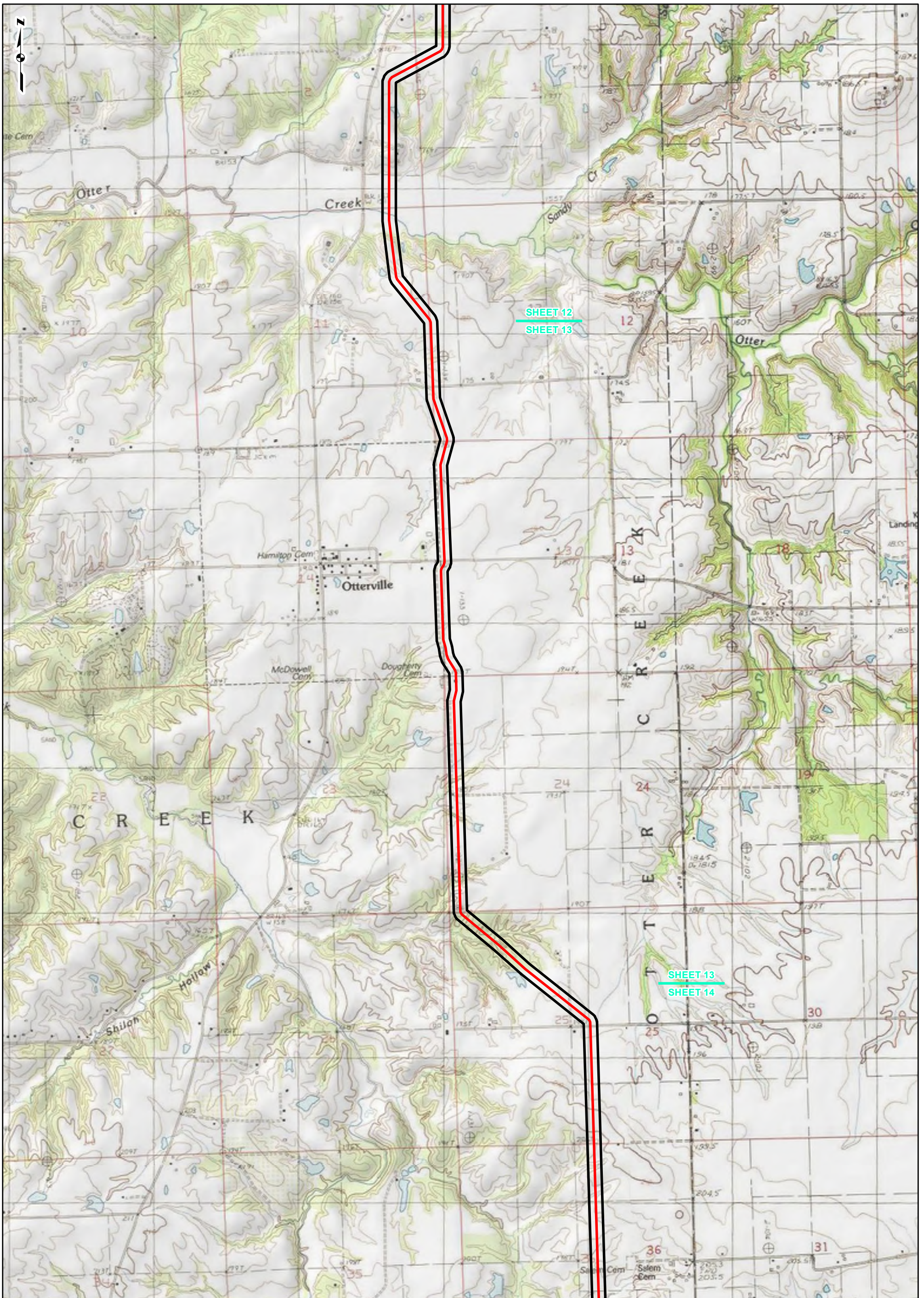
0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 12 OF 21

SPiRE STL PIPELINE PROJECT

gaiconsultants

DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW




REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1983), ELSA (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND


- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000
Feet

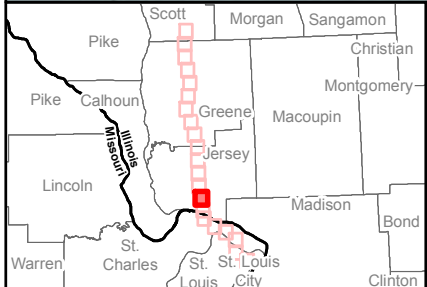
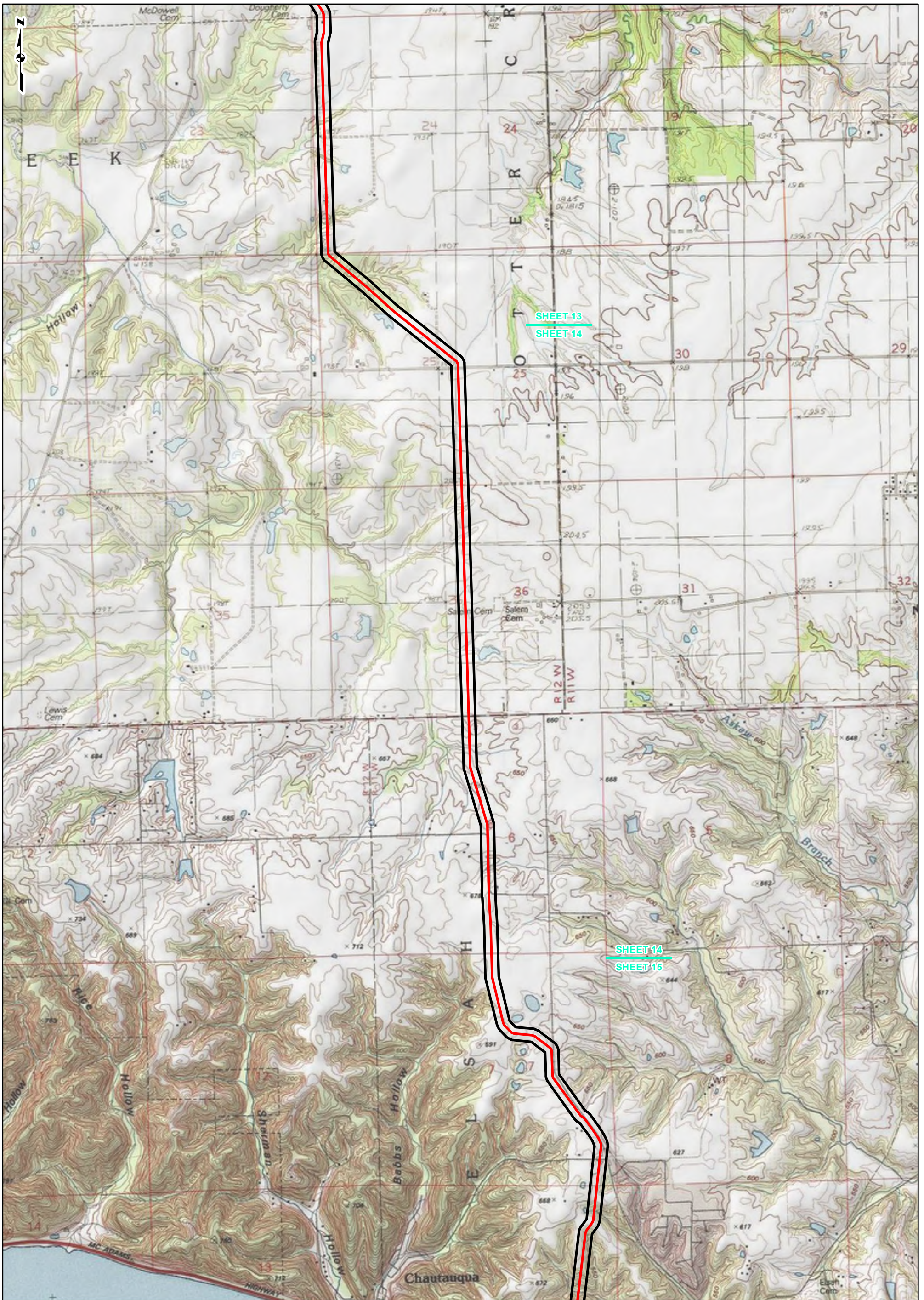
PROJECT LOCATION MAP
SHEET 13 OF 21



SPIRE STL PIPELINE PROJECT



DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1983), ELSA (1995), FLOISSANT (1995), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

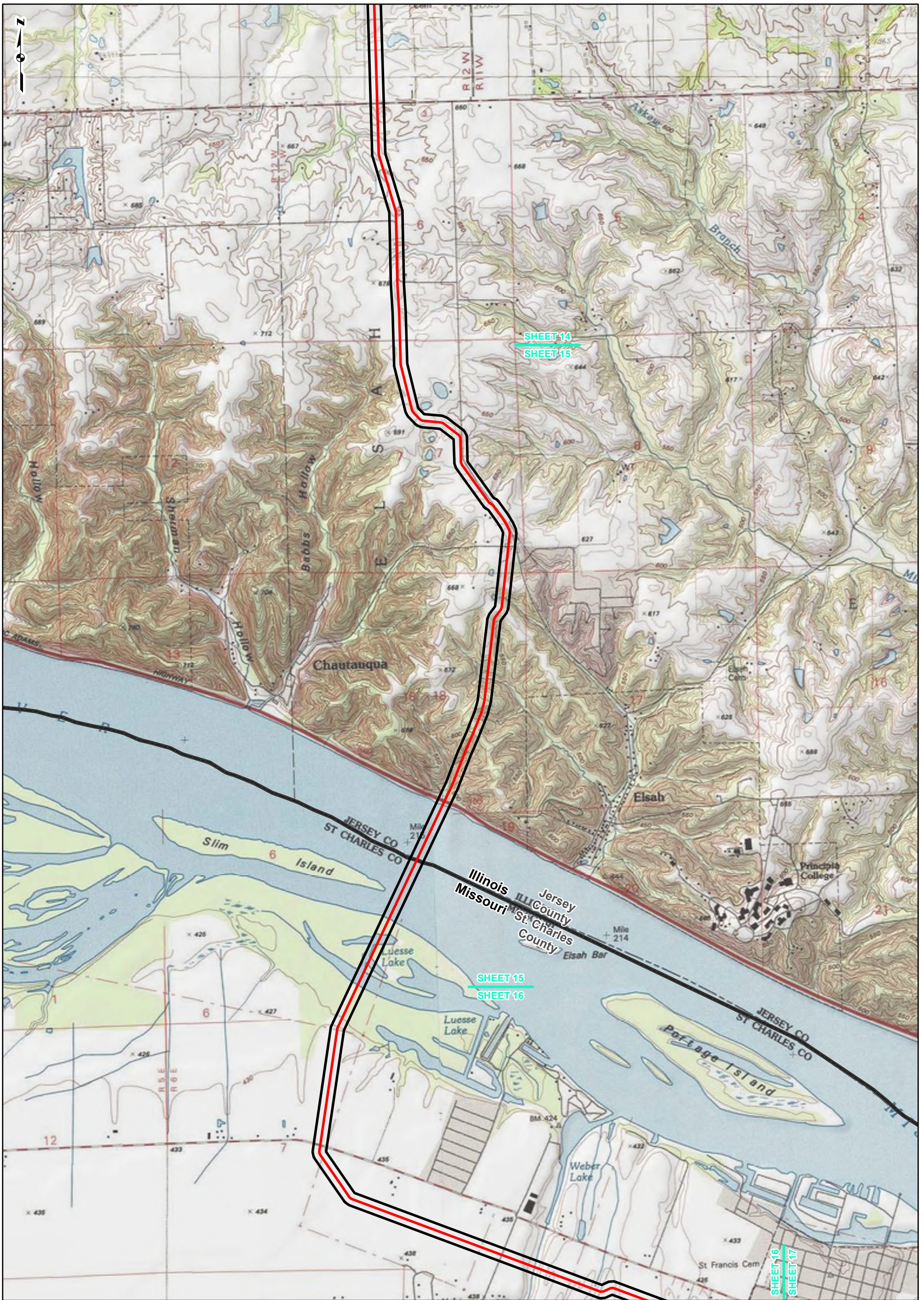
- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 14 OF 21

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1998), ELSAH (1995), FLOISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI. OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

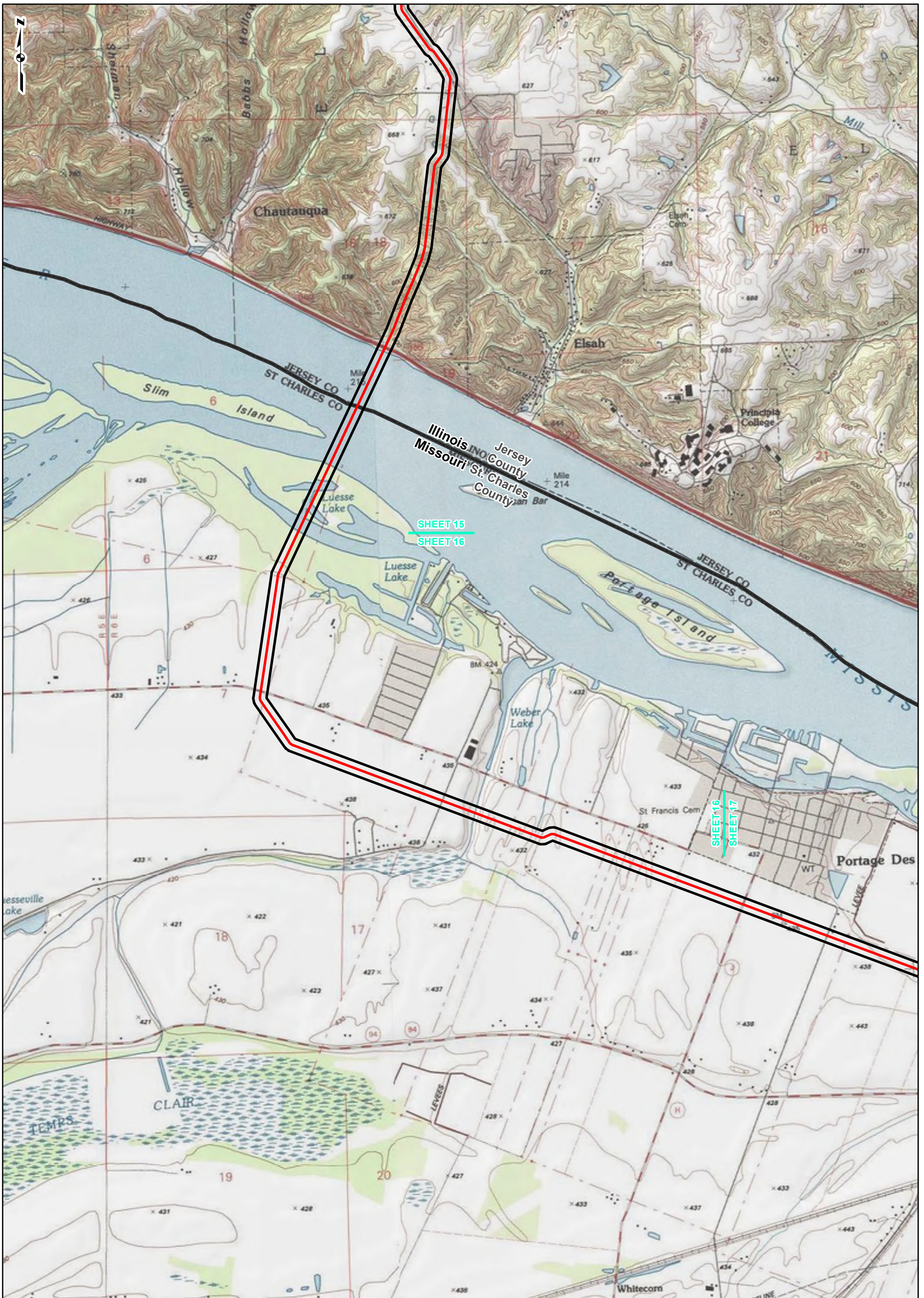
0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 15 OF 21

SPIRE STL PIPELINE PROJECT

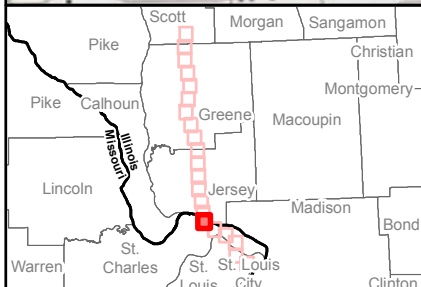
gai consultants

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 CHECKED: EFJ APPROVED: TCW



SHEET 15
SHEET 16

SHEET 16
SHEET 17



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1998), ELSAH (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI. OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

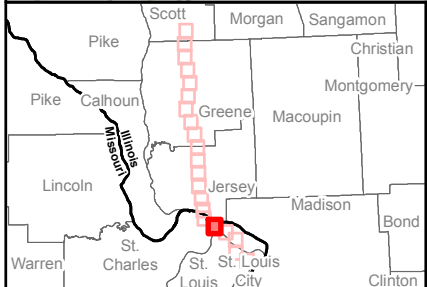
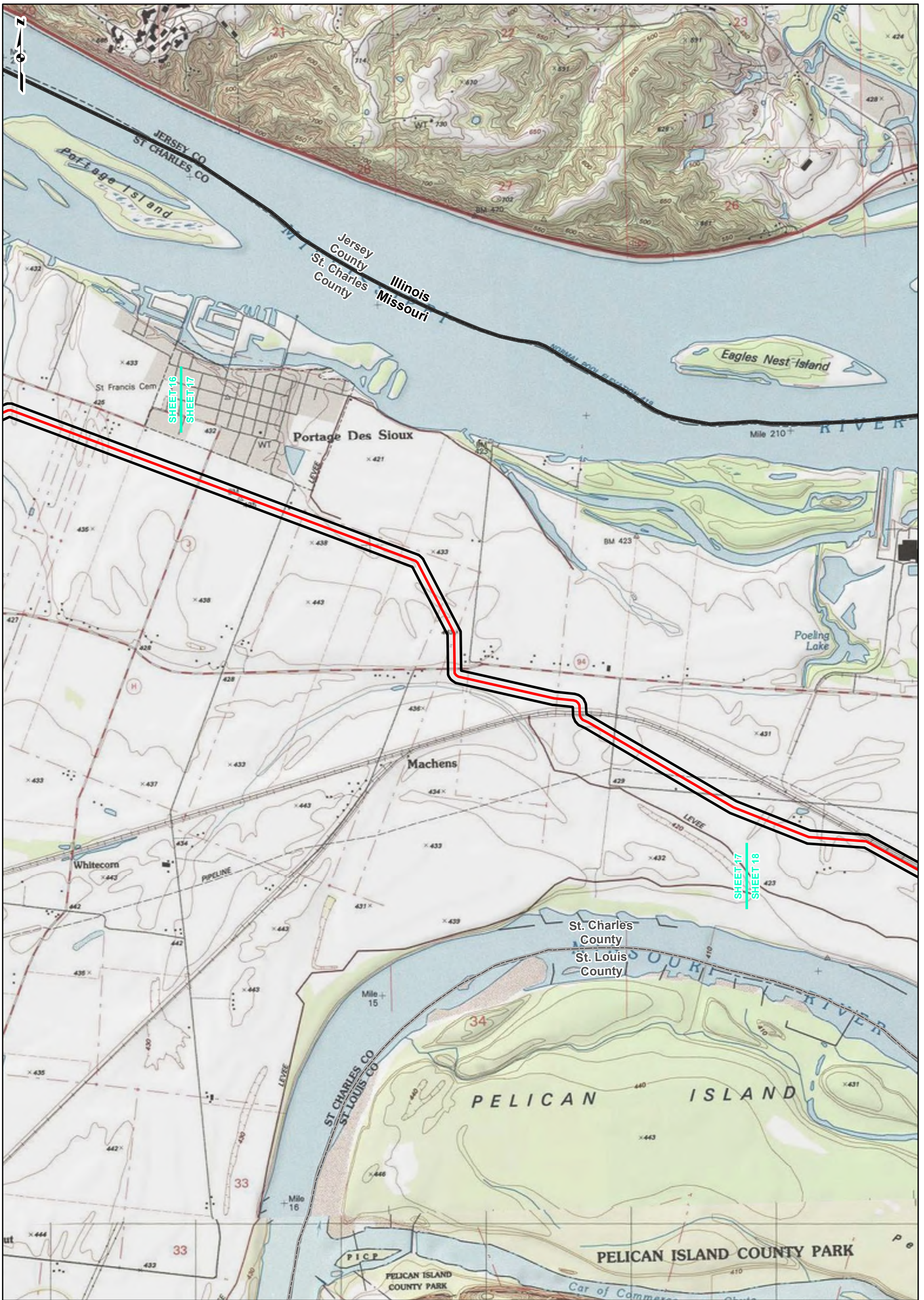
PROJECT LOCATION MAP SHEET 16 OF 21

SPIRE STL PIPELINE PROJECT

gai consultants

DRAWN BY: PMH
CHECKED: EFJ

DATE: 4/20/2017
APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1985), COLUMBIA BOTTOM (1998), ELSA (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI. OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

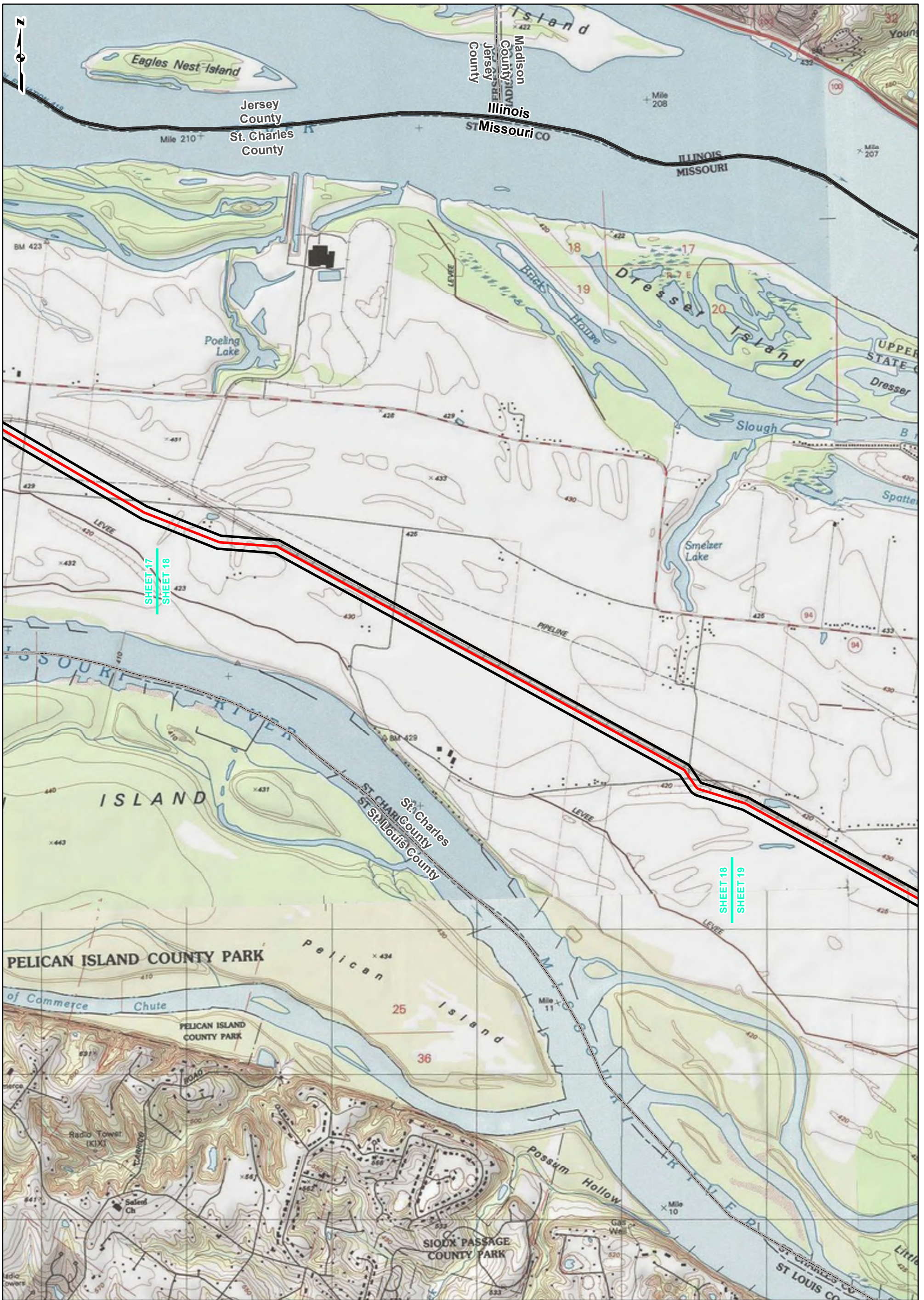
0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 17 OF 21

SPiRE STL PIPELINE PROJECT

gai consultants

DRAWN BY: PMH DATE: 4/20/2017
 CHECKED: EFJ APPROVED: TCW



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1998), ELSA (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

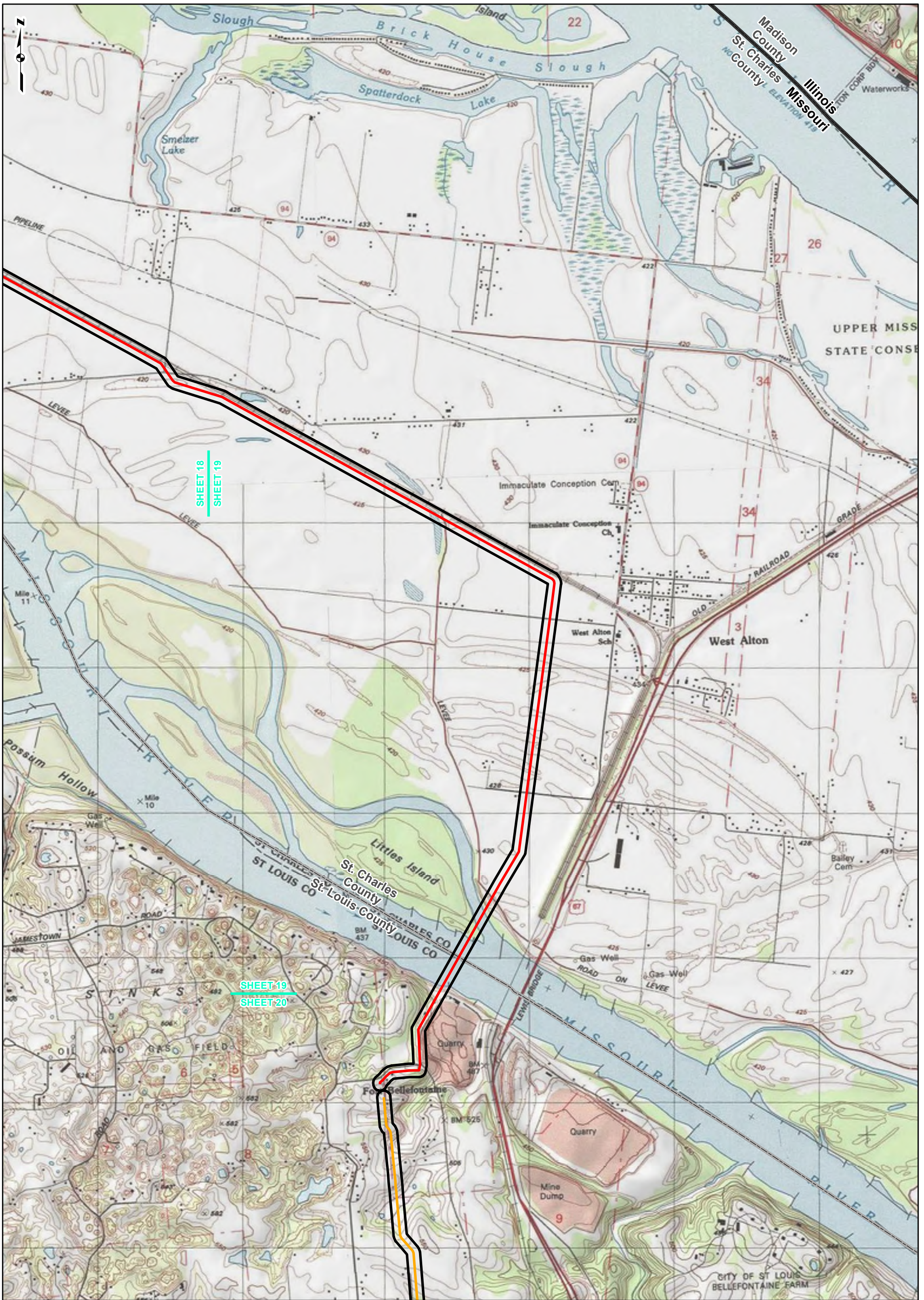
0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 18 OF 21

spire STL PIPELINE PROJECT

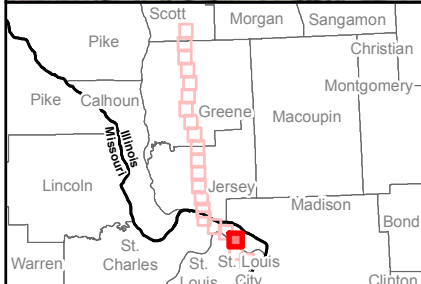
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SHEET 18
SHEET 19

SHEET 19
SHEET 20



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSA (1995), FLORISSANT (1999), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

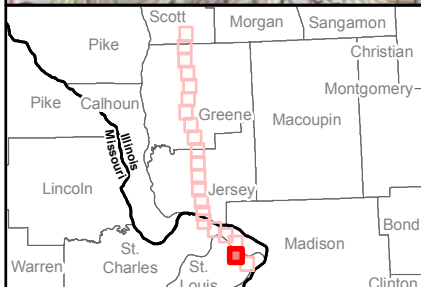
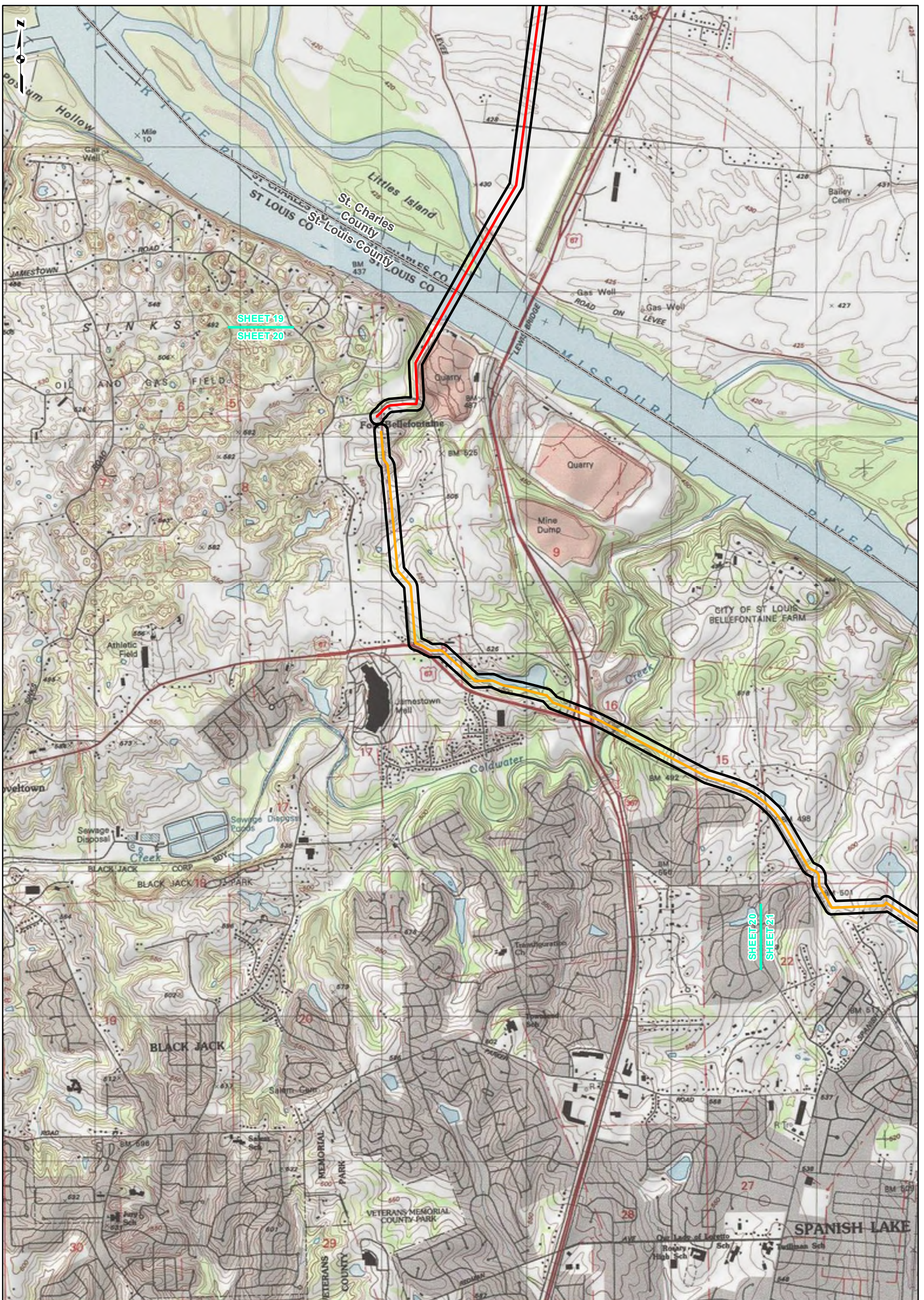
0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 19 OF 21

SPiRE STL PIPELINE PROJECT

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REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1998), ELSA (1995), FLORISSANT (1998), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

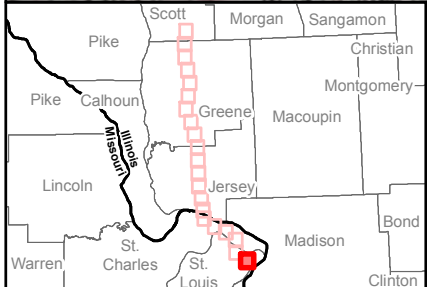
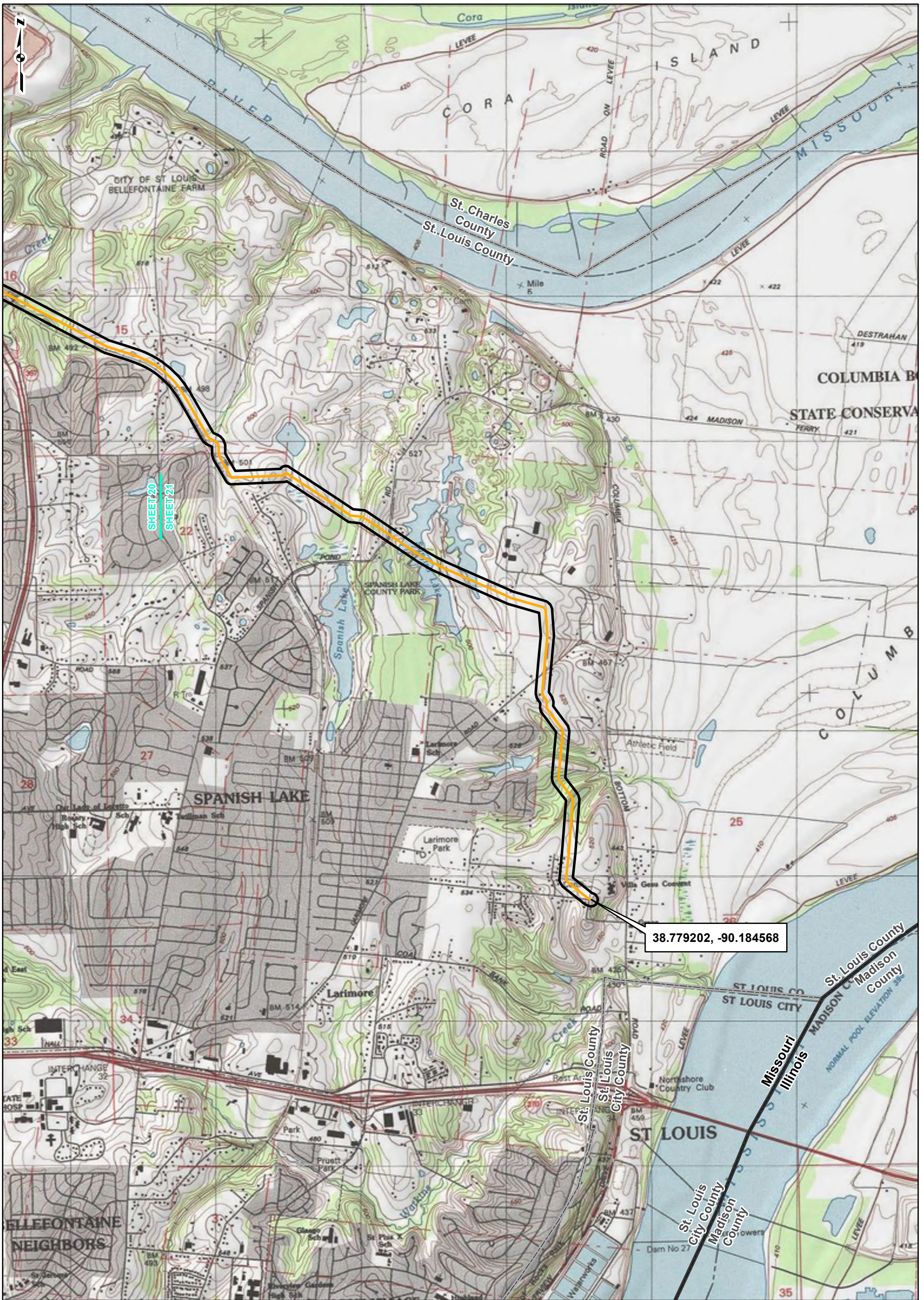
PROJECT LOCATION MAP SHEET 20 OF 21

SPiRE STL PIPELINE PROJECT

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REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1983), ELSA (1995), FLOISSANT (1995), GRAFTON (1995), JERSEYVILLE NORTH (1983), JERSEYVILLE SOUTH (1983), OTTERVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 04/2017.

LEGEND

- 24-INCH PIPELINE
- 300-FOOT CORRIDOR
- COUNTY BOUNDARY
- STATE BOUNDARY
- NORTH COUNTY EXTENSION

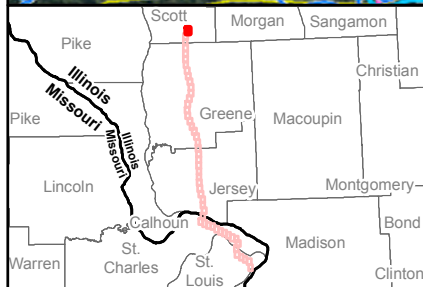
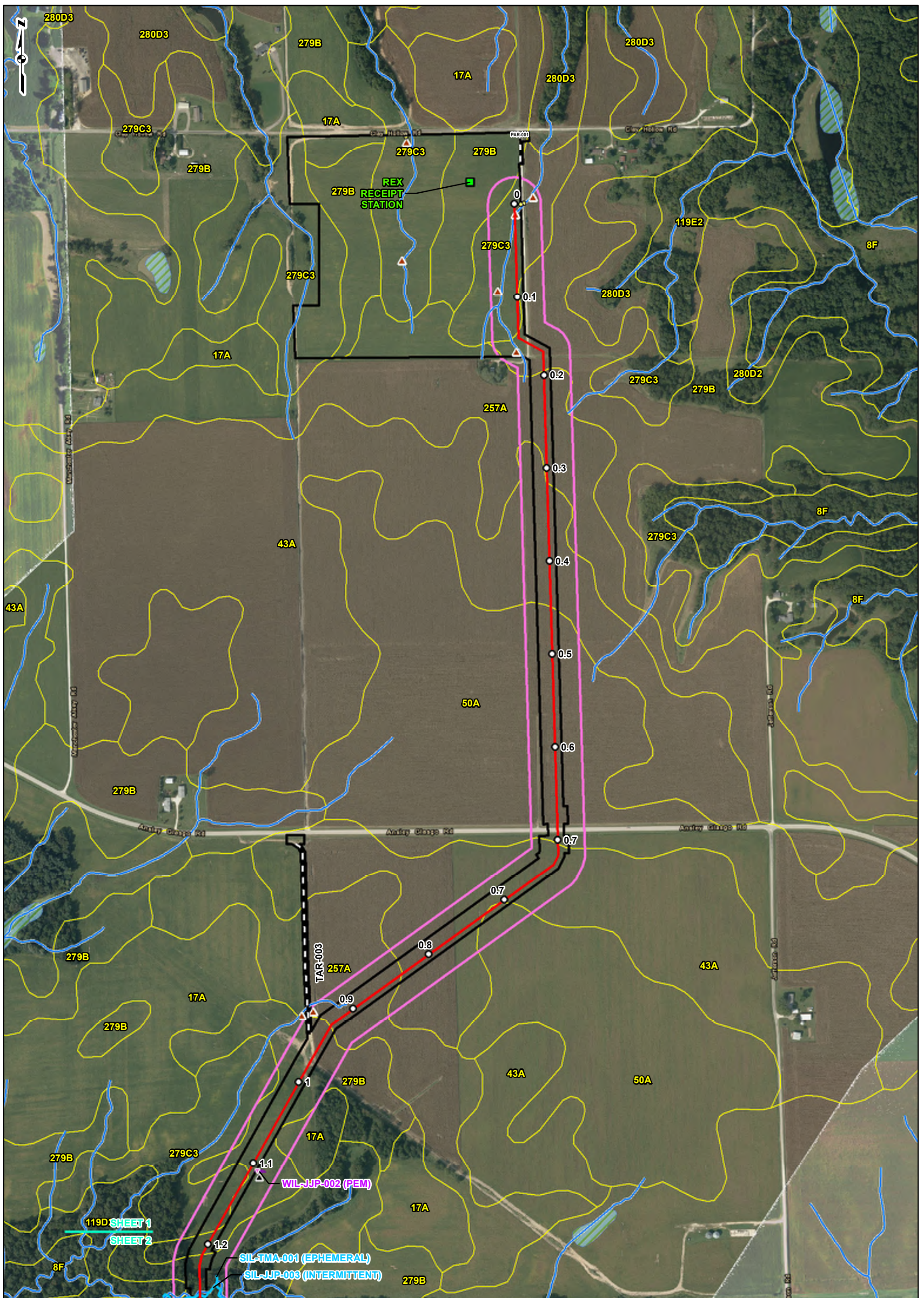
0 1,000 2,000 4,000 Feet

PROJECT LOCATION MAP SHEET 21 OF 21

SPiRE STL PIPELINE PROJECT

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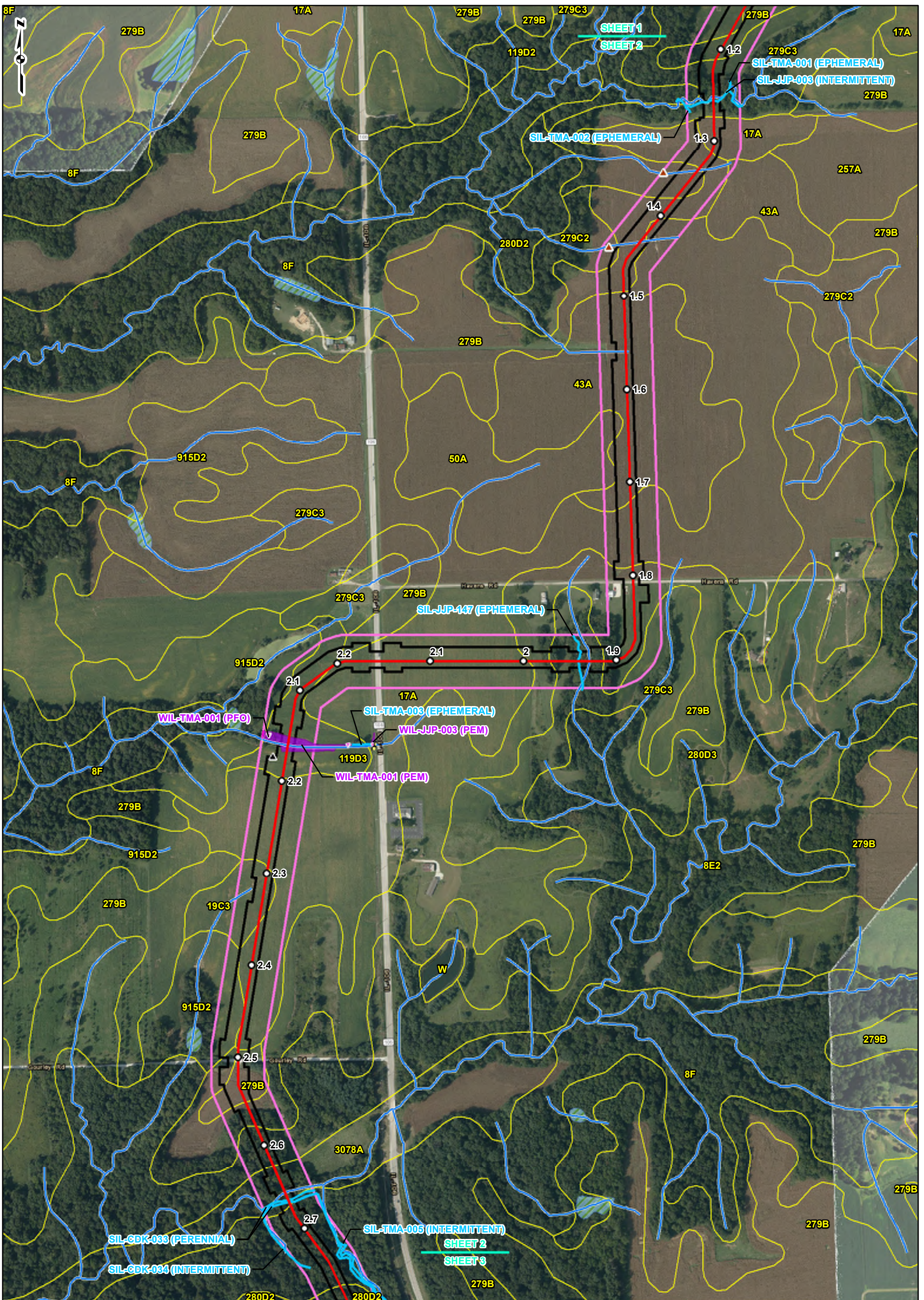
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 STREAMS FOR ILLINOIS (2015) AND
 MISSOURI (2016). USGS. NATIONAL
 FLOOD HAZARD LAYER FOR
 ILLINOIS (2015). FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | |
|---|--|
| ■ FACILITY | — 24-INCH PIPELINE |
| ○ MILEPOST | — NORTH COUNTY |
| ● CULVERT | — EXTENSION |
| * GROUNDWATER SEEP | — STREAM |
| ▲ UPLAND LOCATION | — NHD STREAM |
| ▼ WETLAND DATA POINT | — POND OPEN END |
| ▲ SOIL TEST PIT | — WETLAND OPEN END |
| — ACCESS ROAD | ■ POND |
| | ■ WETLAND |
| | ■ NWI WETLAND |
| | ■ NWI WATERBODY |
| | ■ 100-YEAR FLOODPLAIN |
| | ■ SOIL TYPE BOUNDARY |
| | — LIMIT OF DISTURBANCE |
| | — 300-FOOT CORRIDOR |
| | — COUNTY BOUNDARY |
| | — STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 1 OF 51

SPIRE STL PIPELINE PROJECT

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| CHECKED: EFJ | APPROVED: TCW |



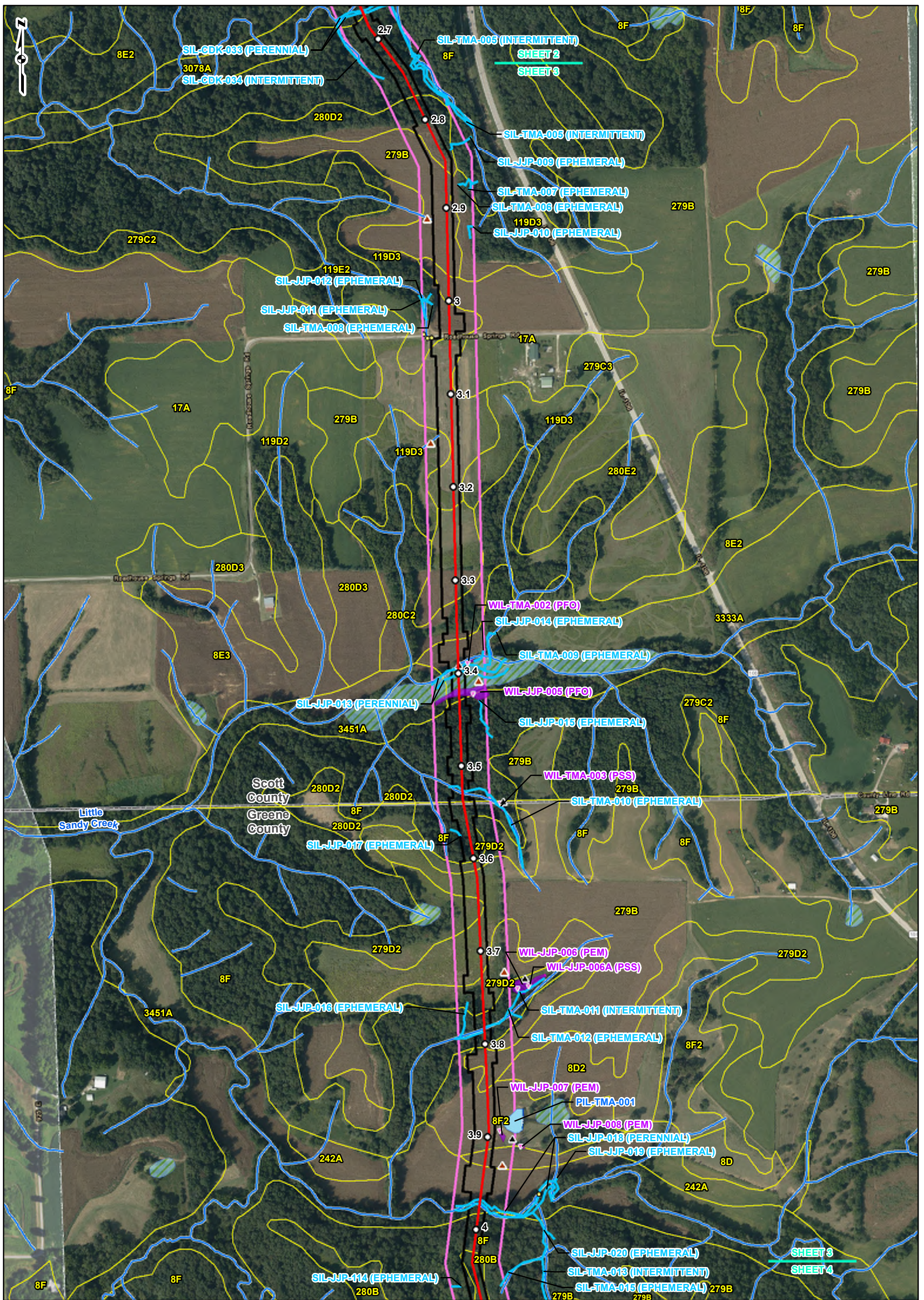
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 ILLINOIS (2015), FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | |
|--------|---------------------------|
| | FACILITY |
| | MILEPOST |
| | CULVERT |
| | GROUNDWATER SEEP |
| | UPLAND LOCATION |
| | WETLAND DATA POINT |
| | SOIL TEST PIT |
| | ACCESS ROAD |
| | 24-INCH PIPELINE |
| | NORTH COUNTY EXTENSION |
| | STREAM |
| | NHD STREAM |
| | POND OPEN END |
| | WETLAND OPEN END |
| | WETLAND |
| | NWI WETLAND |
| | NWI WATERBODY |
| | 100-YEAR FLOODPLAIN |
| | SOIL TYPE BOUNDARY |
| | LIMIT OF DISTURBANCE |
| | 300-FOOT CORRIDOR |
| | COUNTY BOUNDARY |
| | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 2 OF 51

**SPIRE STL
PIPELINE
PROJECT**

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| DRAWN BY: PMH | DATE: 4/20/2017 |
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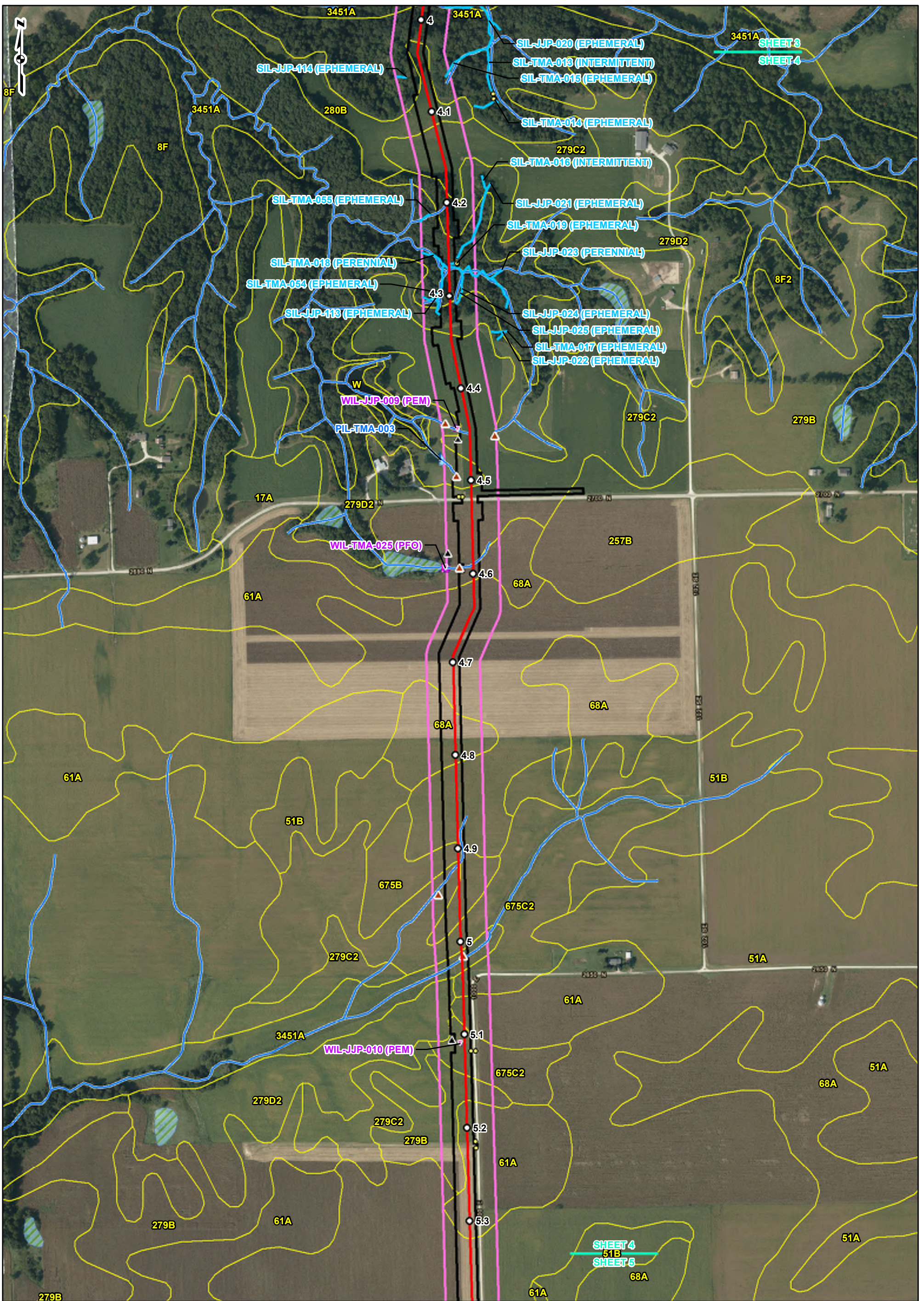
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 FLOOD HAZARD LAYER FOR
 ILLINOIS (2015). FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | |
|--------|----------------------|--|------------------------|
| | FACILITY | | 24-INCH PIPELINE |
| | MILEPOST | | NORTH COUNTY EXTENSION |
| | CULVERT | | STREAM |
| | GROUNDWATER SEEP | | NHD STREAM |
| | UPLAND LOCATION | | POND OPEN END |
| | WETLAND DATA POINT | | WETLAND OPEN END |
| | SOIL TEST PIT | | POND |
| | ACCESS ROAD | | WETLAND |
| | NWI WETLAND | | NWI WATERBODY |
| | NWI WATERBODY | | 100-YEAR FLOODPLAIN |
| | SOIL TYPE BOUNDARY | | LIMIT OF DISTURBANCE |
| | LIMIT OF DISTURBANCE | | 300-FOOT CORRIDOR |
| | COUNTY BOUNDARY | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 3 OF 51

SPIRE STL PIPELINE PROJECT

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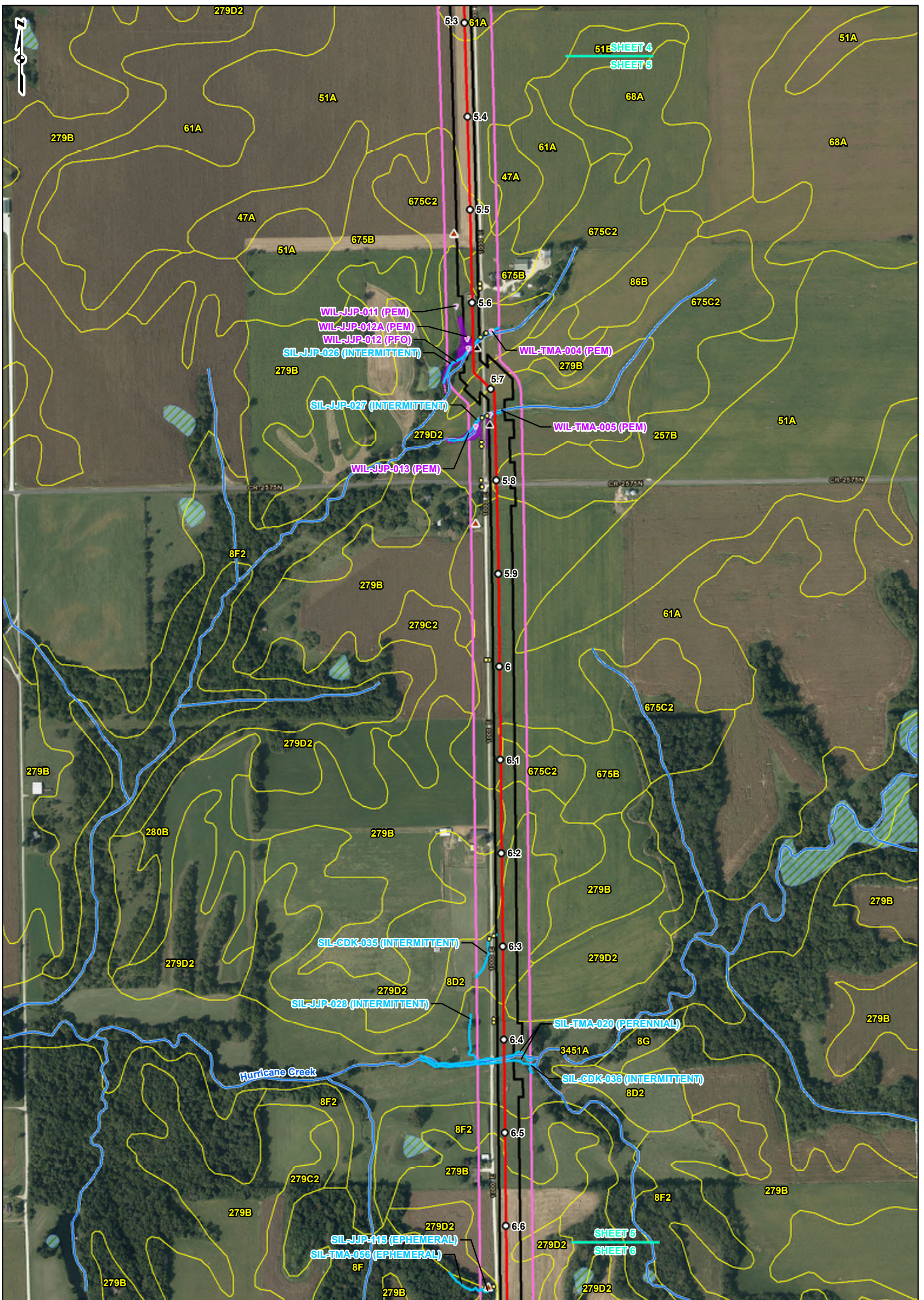
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 ILLINOIS (2015). FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | | | |
|-------------------------|--------------------|--|---------------------------|--|----------------------|
| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | POND | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | WETLAND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND OPEN END | | STATE BOUNDARY |
| 0 250 500 1,000 Feet | | | | | |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 4 OF 51**

**SPIRE STL
PIPELINE
PROJECT**

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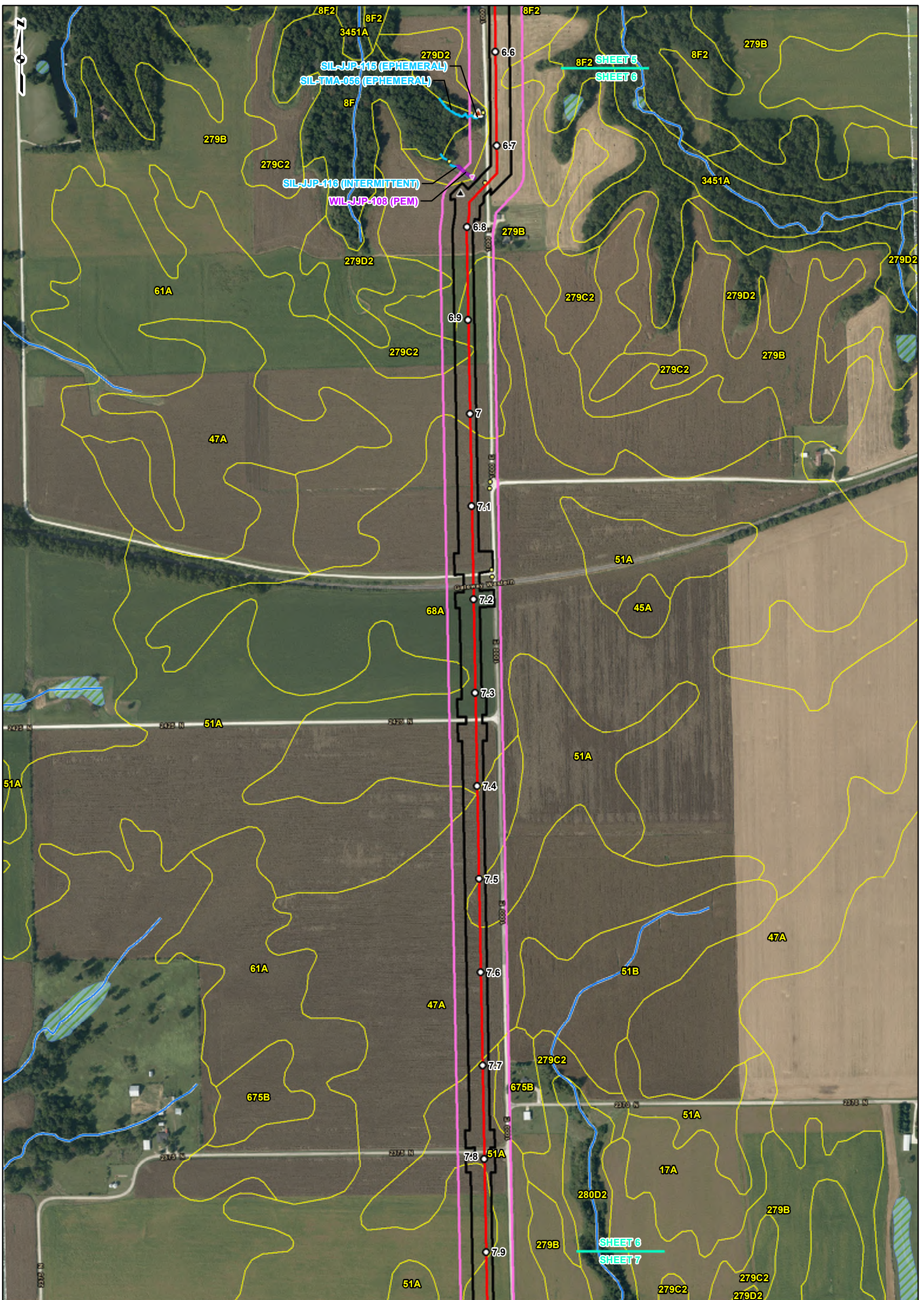
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 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | |
|--------|----------------------|--|------------------------|
| | FACILITY | | 24-INCH PIPELINE |
| | MILEPOST | | NORTH COUNTY EXTENSION |
| | CULVERT | | STREAM |
| | GROUNDWATER SEEP | | NHD STREAM |
| | UPLAND LOCATION | | POND OPEN END |
| | WETLAND DATA POINT | | WETLAND OPEN END |
| | SOIL TEST PIT | | POND |
| | ACCESS ROAD | | WETLAND |
| | NWI WETLAND | | NWI WATERBODY |
| | NWI WATERBODY | | 100-YEAR FLOODPLAIN |
| | 100-YEAR FLOODPLAIN | | SOIL TYPE BOUNDARY |
| | LIMIT OF DISTURBANCE | | 300-FOOT CORRIDOR |
| | COUNTY BOUNDARY | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 5 OF 51

SPiRE STL PIPELINE PROJECT

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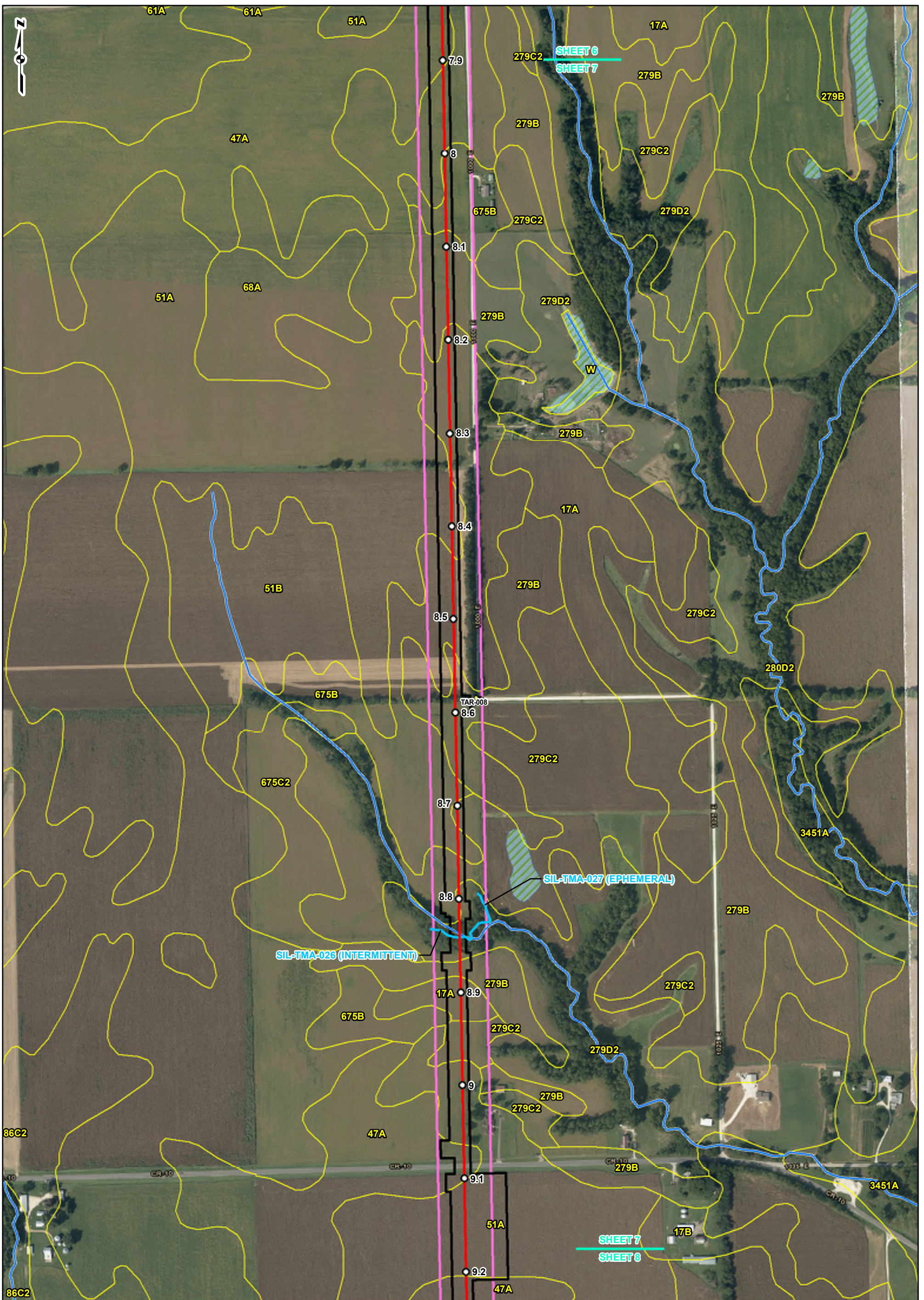
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 FLOOD HAZARD LAYER FOR
 ILLINOIS (2015), FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | |
|--------|------------------------|
| | FACILITY |
| | MILEPOST |
| | CULVERT |
| | GROUNDWATER SEEP |
| | UPLAND LOCATION |
| | WETLAND DATA POINT |
| | SOIL TEST PIT |
| | ACCESS ROAD |
| | 24-INCH PIPELINE |
| | NORTH COUNTY EXTENSION |
| | STREAM |
| | NHD STREAM |
| | POND OPEN END |
| | WETLAND OPEN END |
| | POND |
| | WETLAND |
| | NWI WETLAND |
| | NWI WATERBODY |
| | 100-YEAR FLOODPLAIN |
| | SOIL TYPE BOUNDARY |
| | LIMIT OF DISTURBANCE |
| | 300-FOOT CORRIDOR |
| | COUNTY BOUNDARY |
| | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 6 OF 51

SPiRE STL PIPELINE PROJECT

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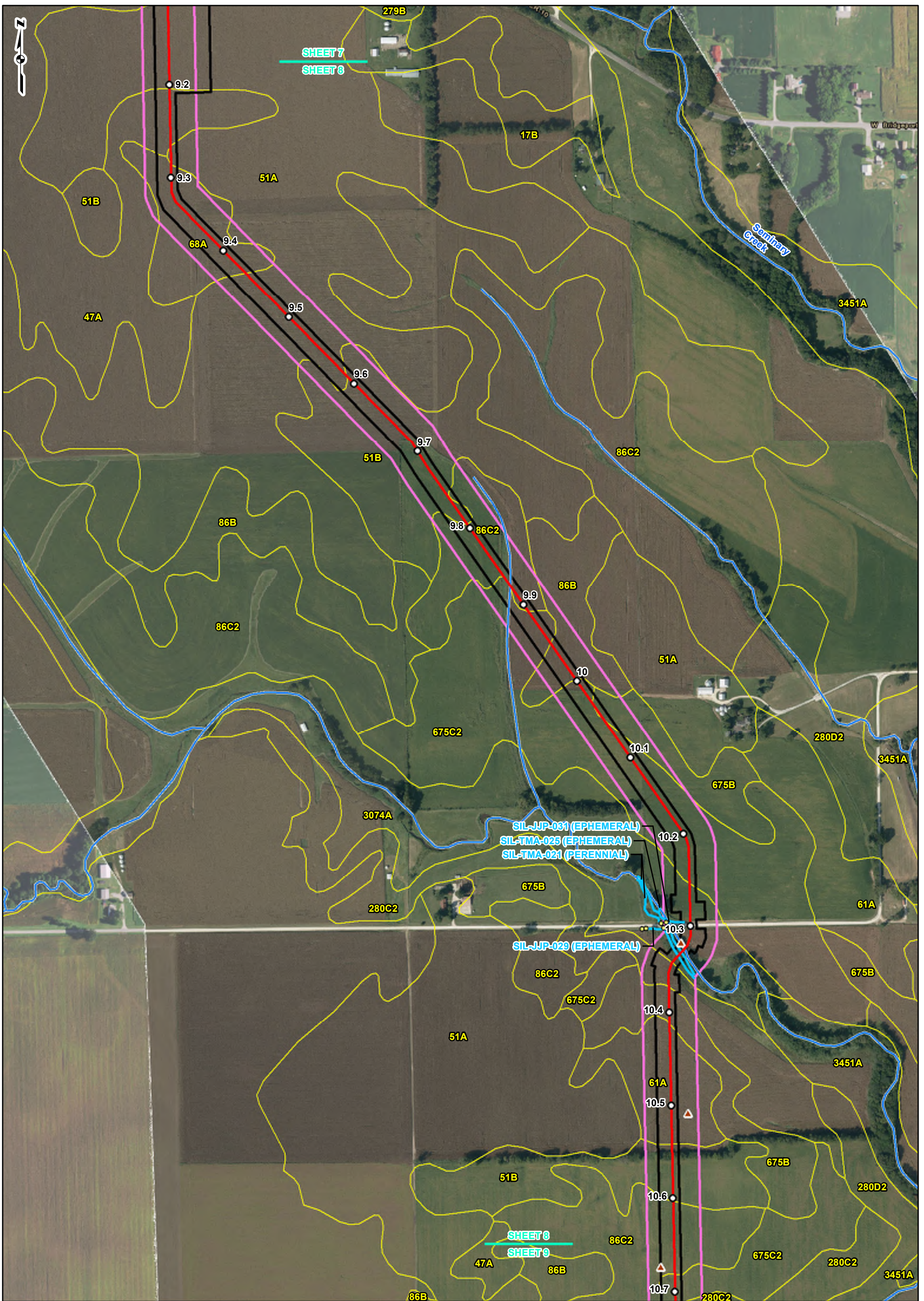
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| | FACILITY | | 24-INCH PIPELINE |
| | MILEPOST | | NORTH COUNTY EXTENSION |
| | CULVERT | | STREAM |
| | GROUNDWATER SEEP | | NHD STREAM |
| | UPLAND LOCATION | | POND OPEN END |
| | WETLAND DATA POINT | | WETLAND OPEN END |
| | SOIL TEST PIT | | POND |
| | ACCESS ROAD | | WETLAND |
| | NWI WETLAND | | NWI WATERBODY |
| | NWI WATERBODY | | 100-YEAR FLOODPLAIN |
| | 100-YEAR FLOODPLAIN | | LIMIT OF DISTURBANCE |
| | SOIL TYPE BOUNDARY | | 300-FOOT CORRIDOR |
| | LIMIT OF DISTURBANCE | | COUNTY BOUNDARY |
| | 300-FOOT CORRIDOR | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 7 OF 51

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SPIRE STL PIPELINE PROJECT

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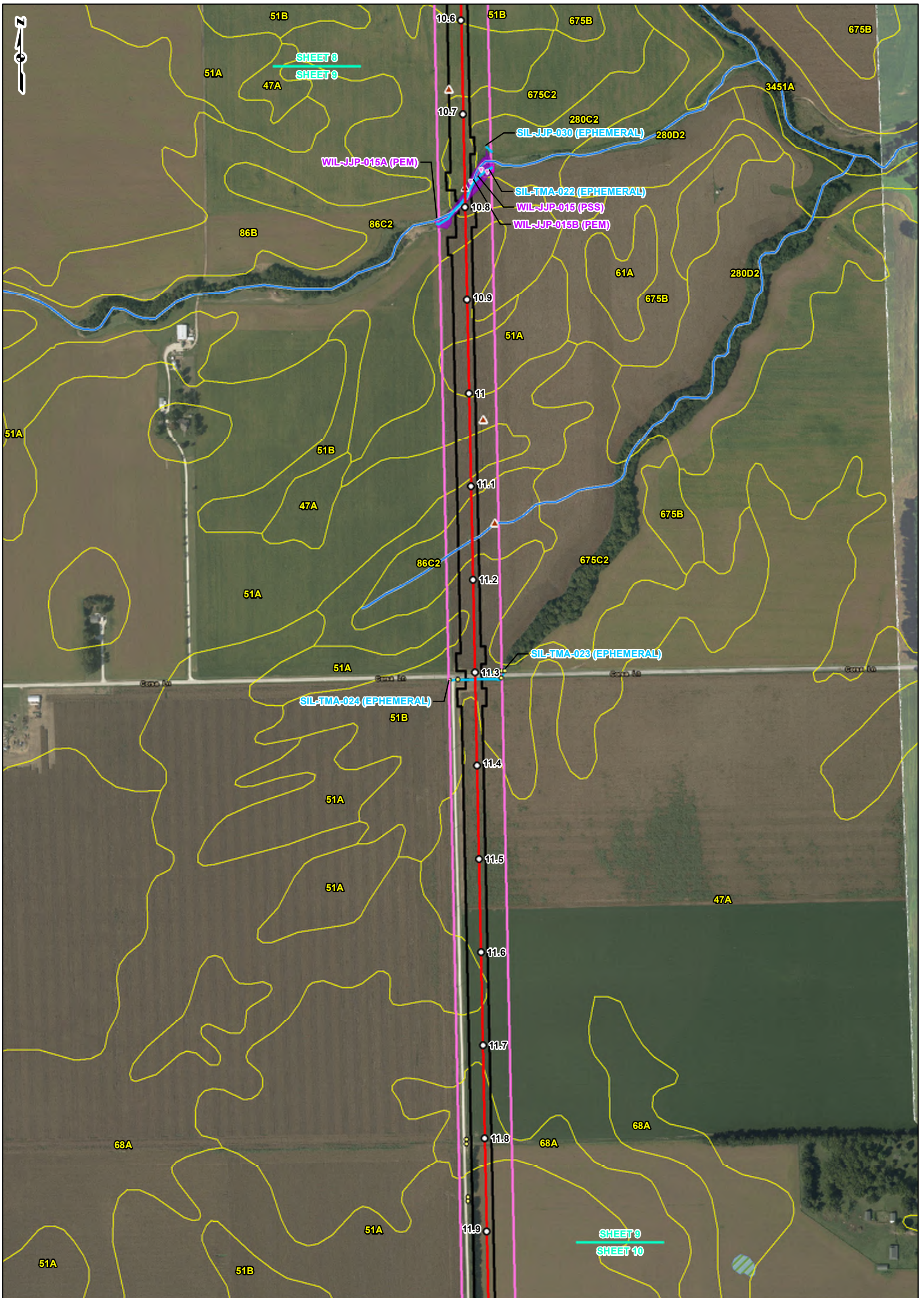
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|---|----------------------|--|------------------------|
| ■ | FACILITY | — | 24-INCH PIPELINE |
| ○ | MILEPOST | — | NORTH COUNTY EXTENSION |
| ● | CULVERT | — | STREAM |
| * | GROUNDWATER SEEP | — | NHD STREAM |
| ▲ | UPLAND LOCATION | — | POND OPEN END |
| ▼ | WETLAND DATA POINT | — | WETLAND OPEN END |
| ▲ | SOIL TEST PIT | — | POND |
| — | ACCESS ROAD | — | WETLAND |
| ▨ | NWI WETLAND | ▨ | NWI WATERBODY |
| ▨ | 100-YEAR FLOODPLAIN | ▨ | SOIL TYPE BOUNDARY |
| ▭ | LIMIT OF DISTURBANCE | ▭ | 300-FOOT CORRIDOR |
| ▭ | COUNTY BOUNDARY | ▭ | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 8 OF 51

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SPIRE STL PIPELINE PROJECT



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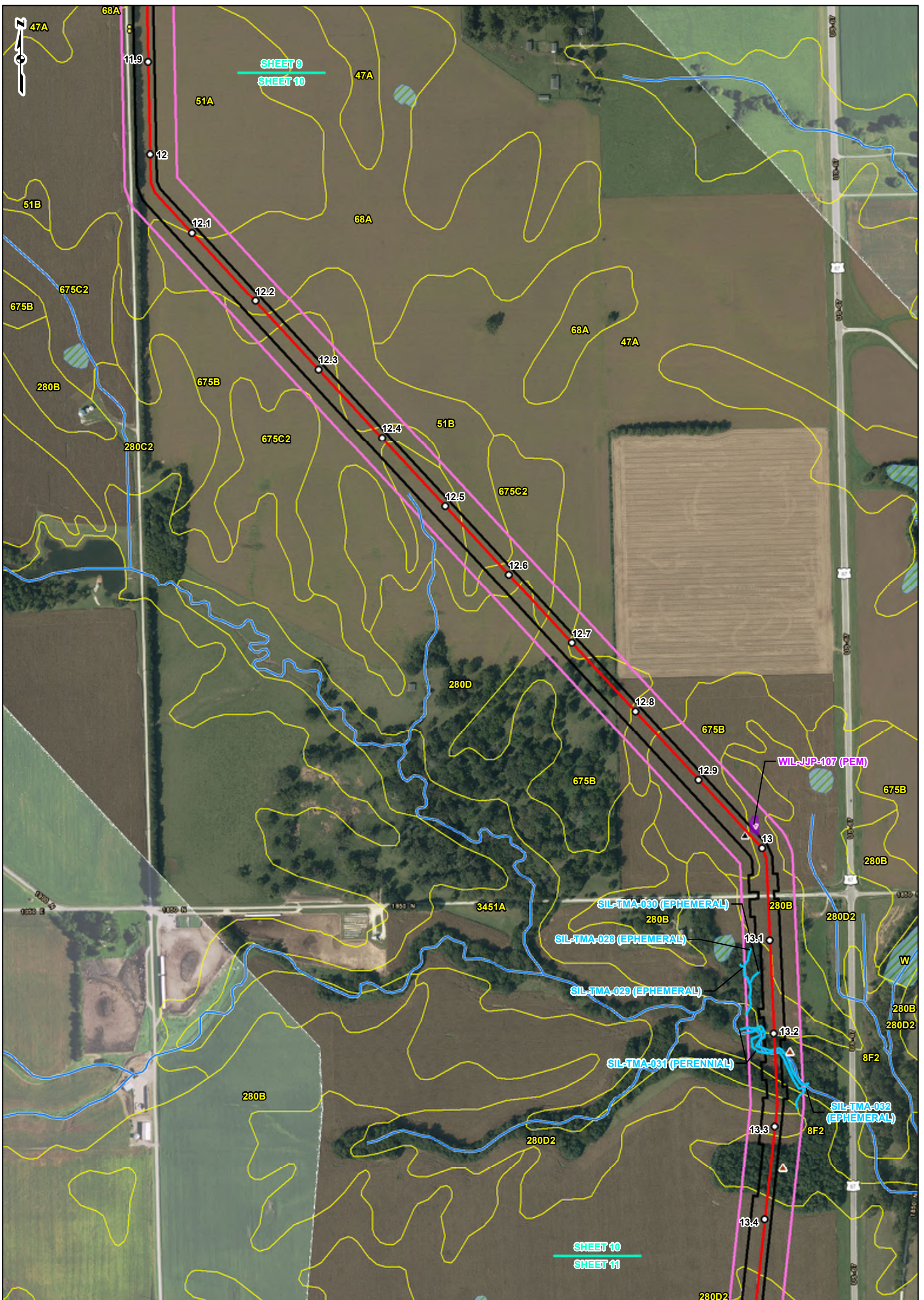
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|--------|--------------------|--|---------------------------|--|----------------------|
| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | WETLAND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | POND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 9 OF 51**

**SPIRE STL
PIPELINE
PROJECT**


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 EMERGENCY MANAGEMENT
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| LEGEND | | | |
|---------------------------------------|--------------------|--|------------------------|
| ■ | FACILITY | — | 24-INCH PIPELINE |
| ○ | MILEPOST | — | NORTH COUNTY EXTENSION |
| ● | CULVERT | — | STREAM |
| * | GROUNDWATER SEEP | — | NHD STREAM |
| ▲ | UPLAND LOCATION | — | POND OPEN END |
| ▼ | WETLAND DATA POINT | — | WETLAND OPEN END |
| ▲ | SOIL TEST PIT | ■ | POND |
| — | ACCESS ROAD | ■ | WETLAND |
| ■ | NWI WETLAND | ■ | NWI WATERBODY |
| ■ | NWI WATERBODY | ■ | 100-YEAR FLOODPLAIN |
| ■ | SOIL TYPE BOUNDARY | — | LIMIT OF DISTURBANCE |
| — | 300-FOOT CORRIDOR | — | COUNTY BOUNDARY |
| — | COUNTY BOUNDARY | — | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 10 OF 51

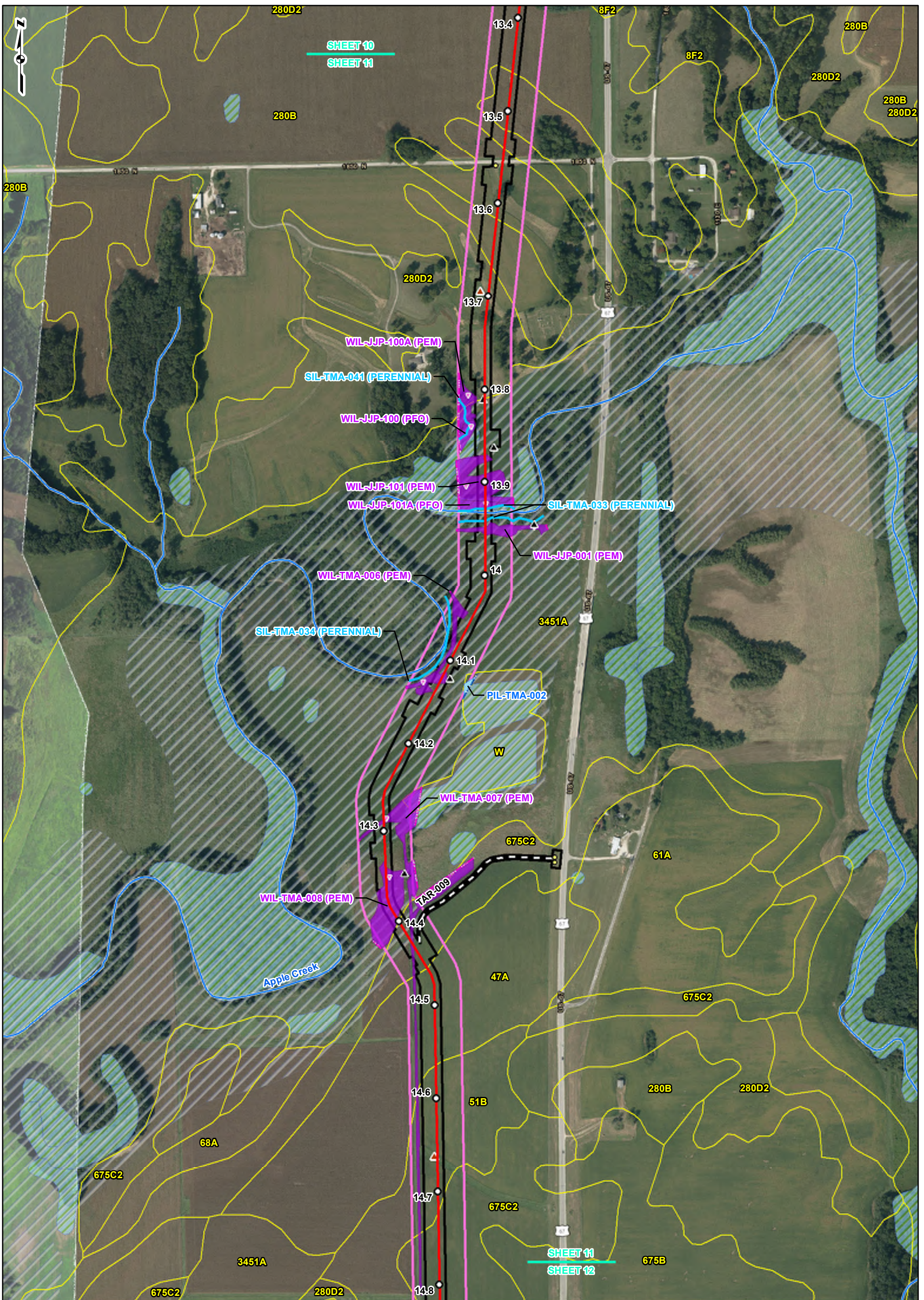


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SPIRE STL PIPELINE PROJECT



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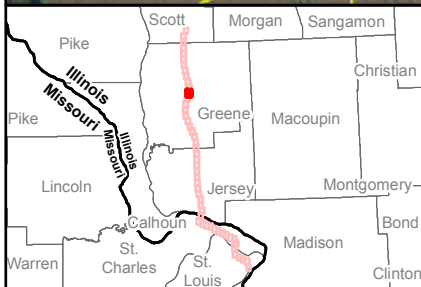
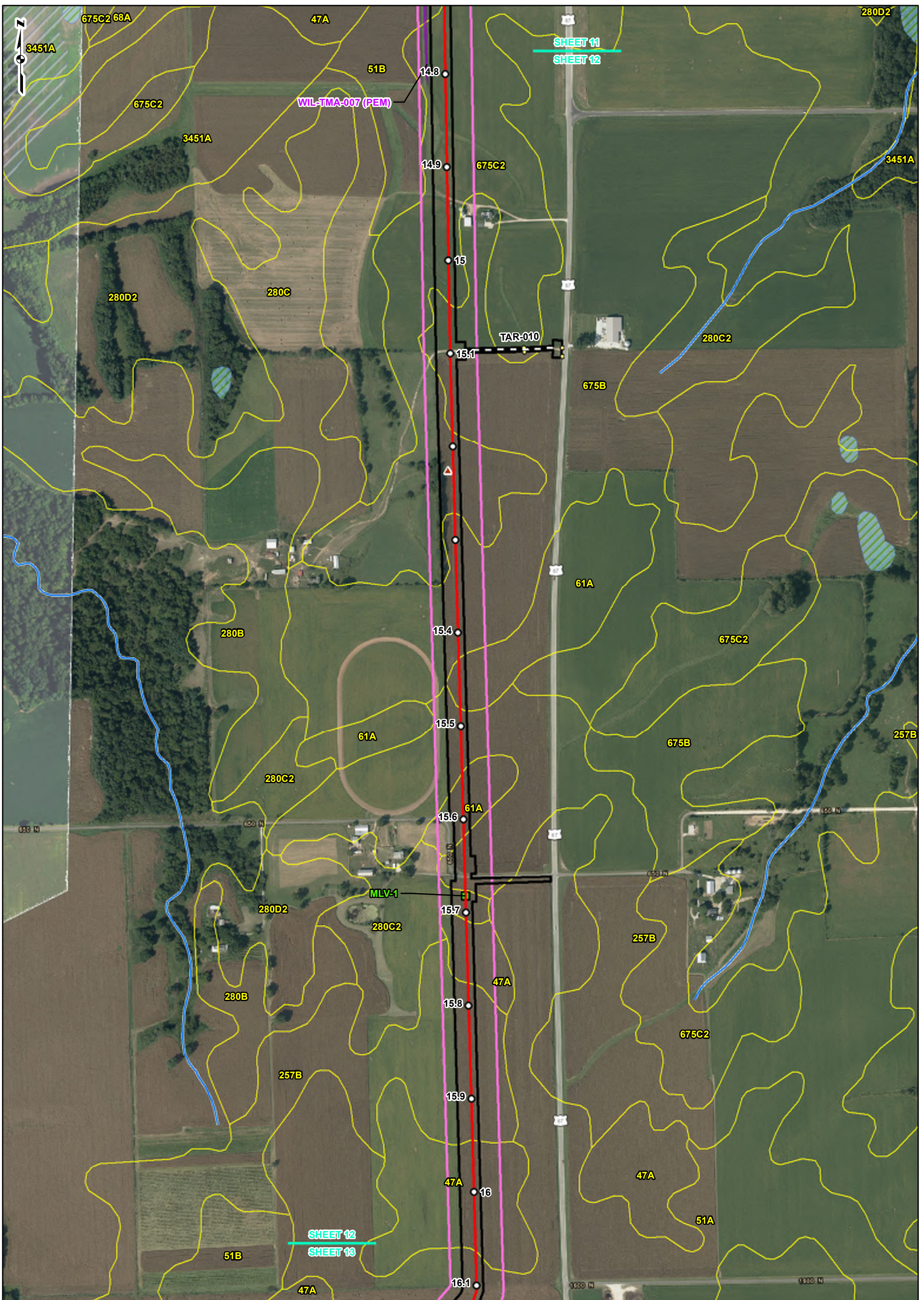
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 AGENCY (FEMA).

| LEGEND | | | |
|---------------------------------------|----------------------|--|----------------------|
| ■ | FACILITY | — | 24-INCH PIPELINE |
| ○ | MILEPOST | — | NORTH COUNTY |
| ● | CULVERT | — | EXTENSION |
| * | GROUNDWATER SEEP | — | STREAM |
| ▲ | UPLAND LOCATION | — | NHD STREAM |
| ▼ | WETLAND DATA POINT | — | POND OPEN END |
| ▲ | SOIL TEST PIT | — | WETLAND OPEN END |
| — | ACCESS ROAD | ■ | POND |
| — | | ■ | WETLAND |
| ▨ | NWI WETLAND | ▨ | NWI WATERBODY |
| ▨ | NWI WATERBODY | ▨ | 100-YEAR FLOODPLAIN |
| ▨ | 100-YEAR FLOODPLAIN | ▨ | LIMIT OF DISTURBANCE |
| ▨ | LIMIT OF DISTURBANCE | ▨ | 300-FOOT CORRIDOR |
| ▨ | 300-FOOT CORRIDOR | ▨ | COUNTY BOUNDARY |
| ▨ | COUNTY BOUNDARY | ▨ | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 11 OF 51

SPiRE STL PIPELINE PROJECT

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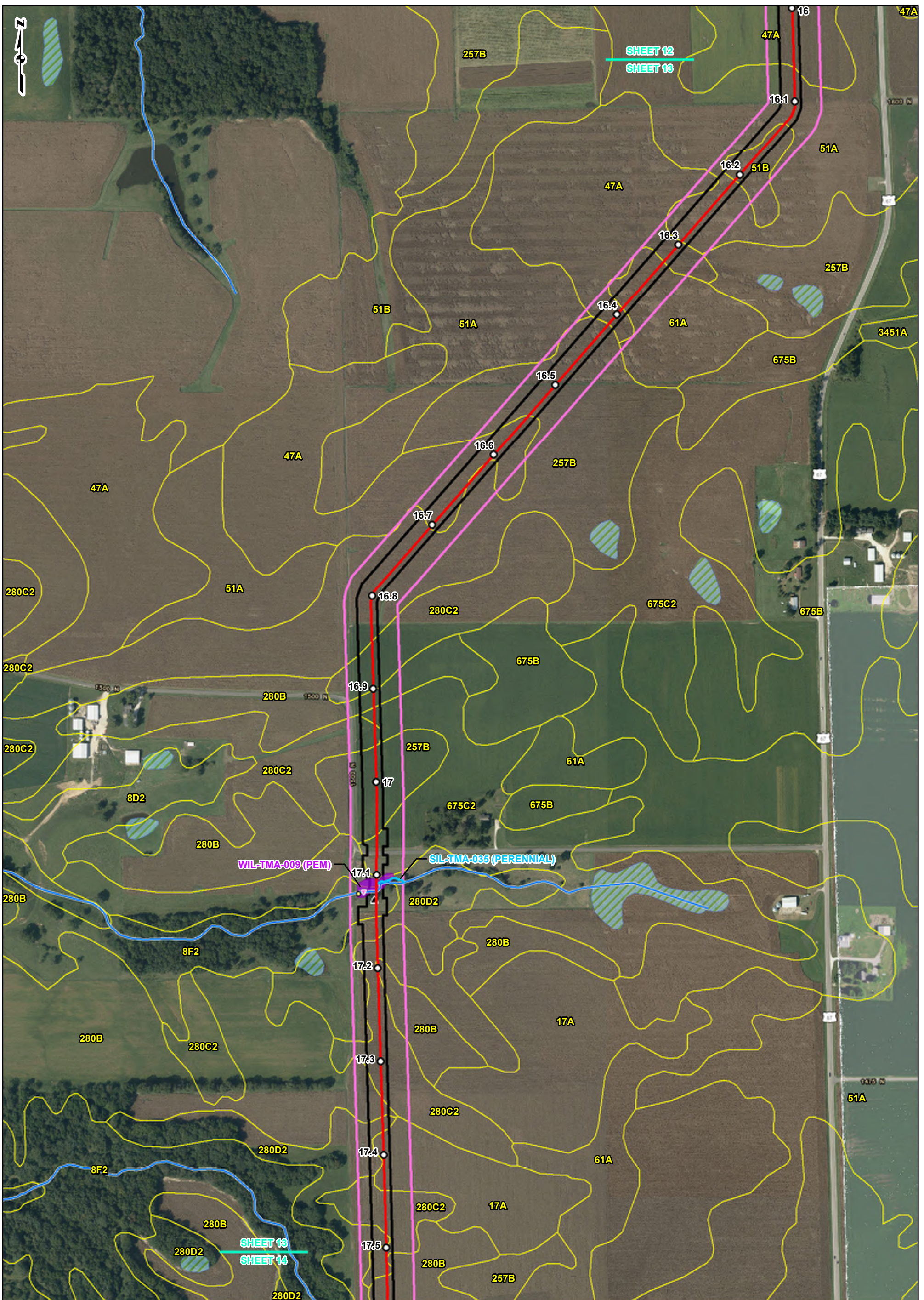
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 ILLINOIS (2015), FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | | | |
|--------|--------------------|--|---------------------------|--|----------------------|
| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | POND | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | WETLAND OPEN END | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 12 OF 51**

**SPIRE STL
PIPELINE
PROJECT**

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REFERENCE:
 ORTHOPHOTOGRAPHY, 2016. ESRI
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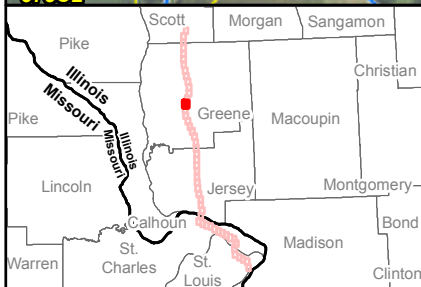
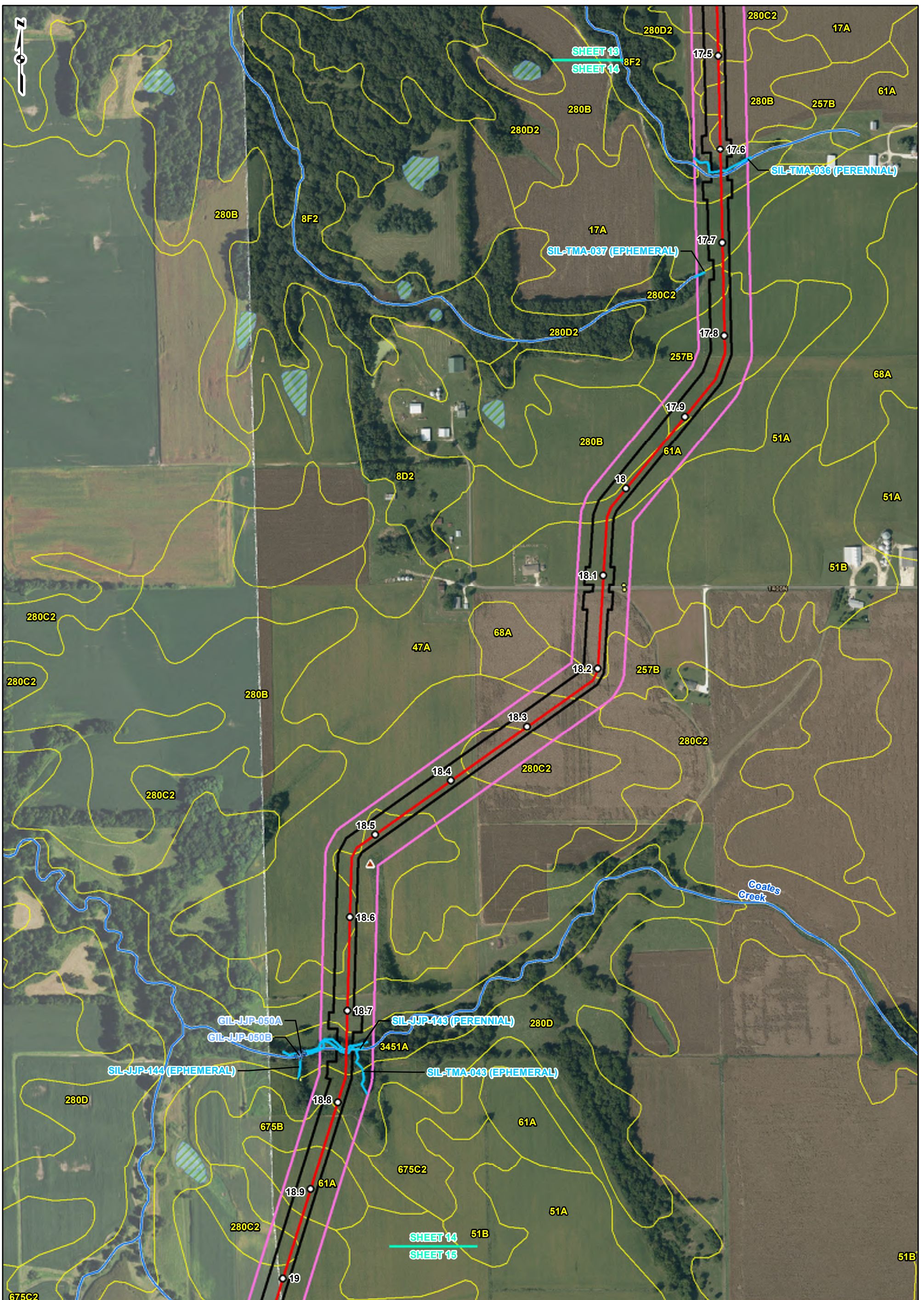
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| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | WETLAND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | POND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 13 OF 51

**SPIRE STL
PIPELINE
PROJECT**

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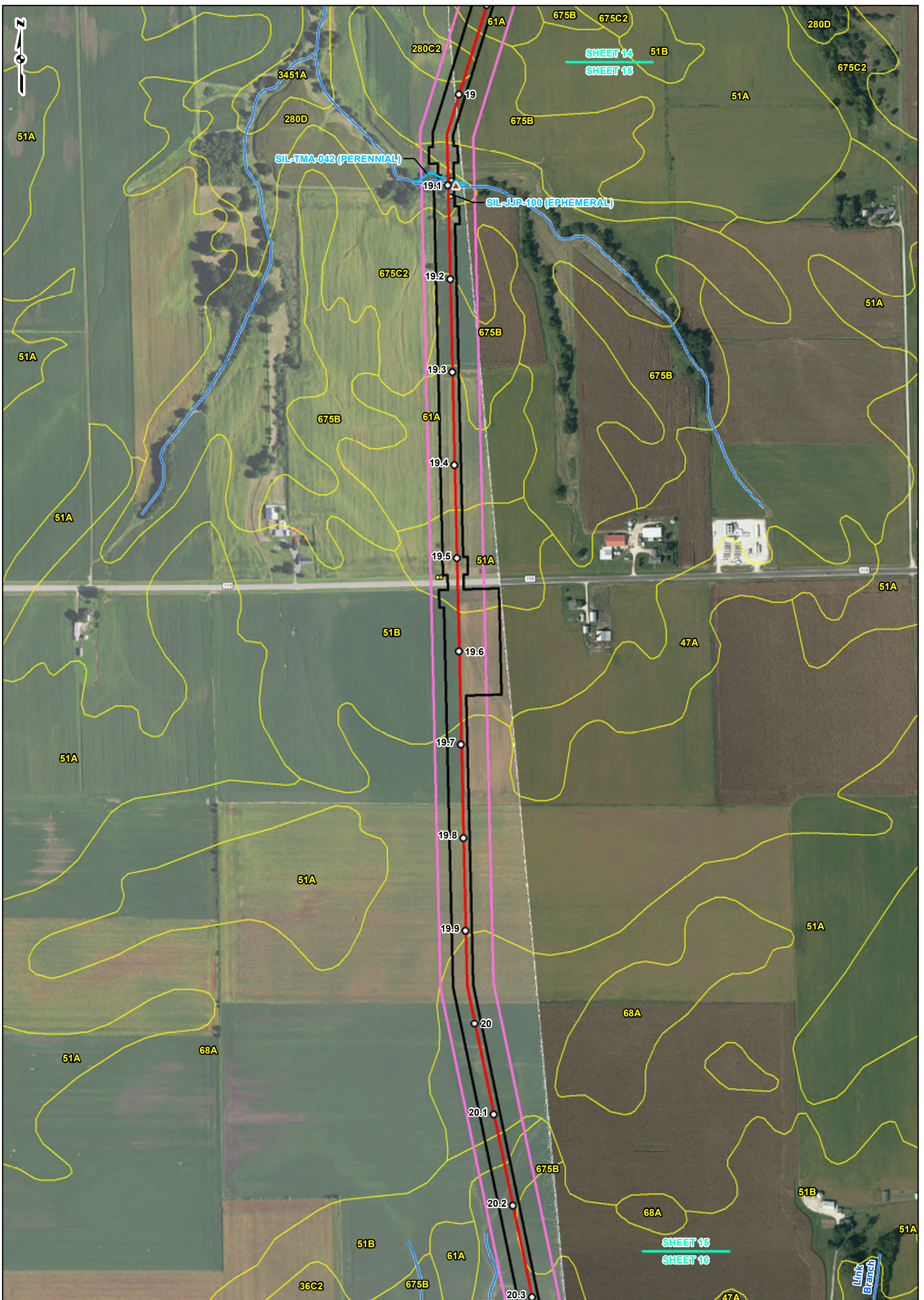
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 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | | | |
|--------|--------------------|--|---------------------------|--|----------------------|
| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | WETLAND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | POND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 14 OF 51**

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 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | | | |
|--------|--------------------|--|---------------------------|--|----------------------|
| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | POND | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | WETLAND OPEN END | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 15 OF 51**

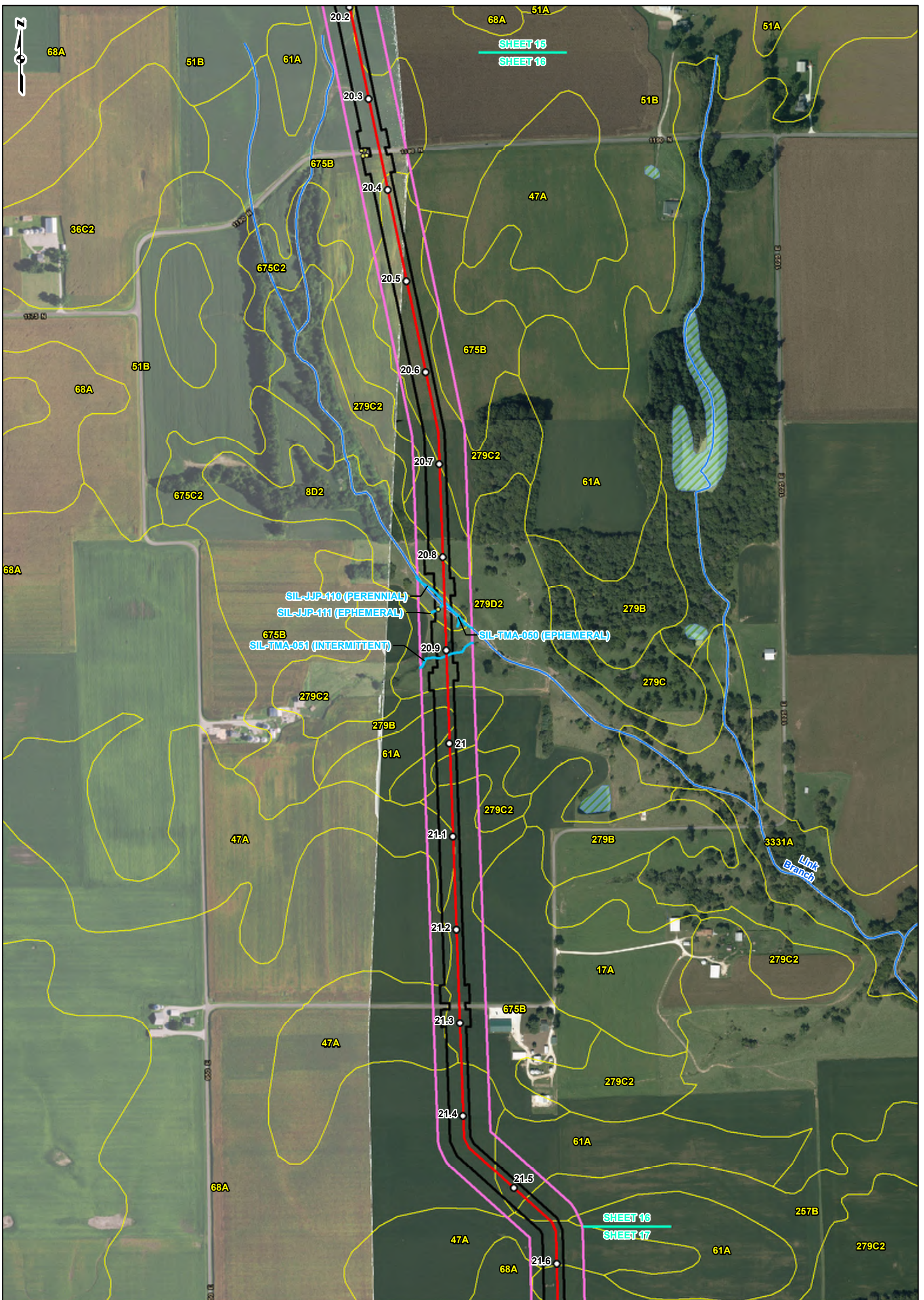


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PIPELINE
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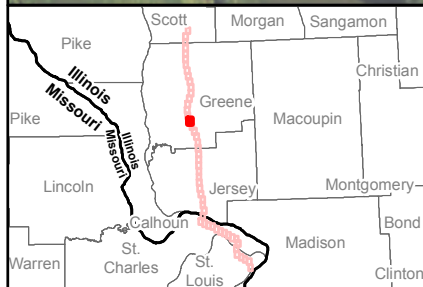
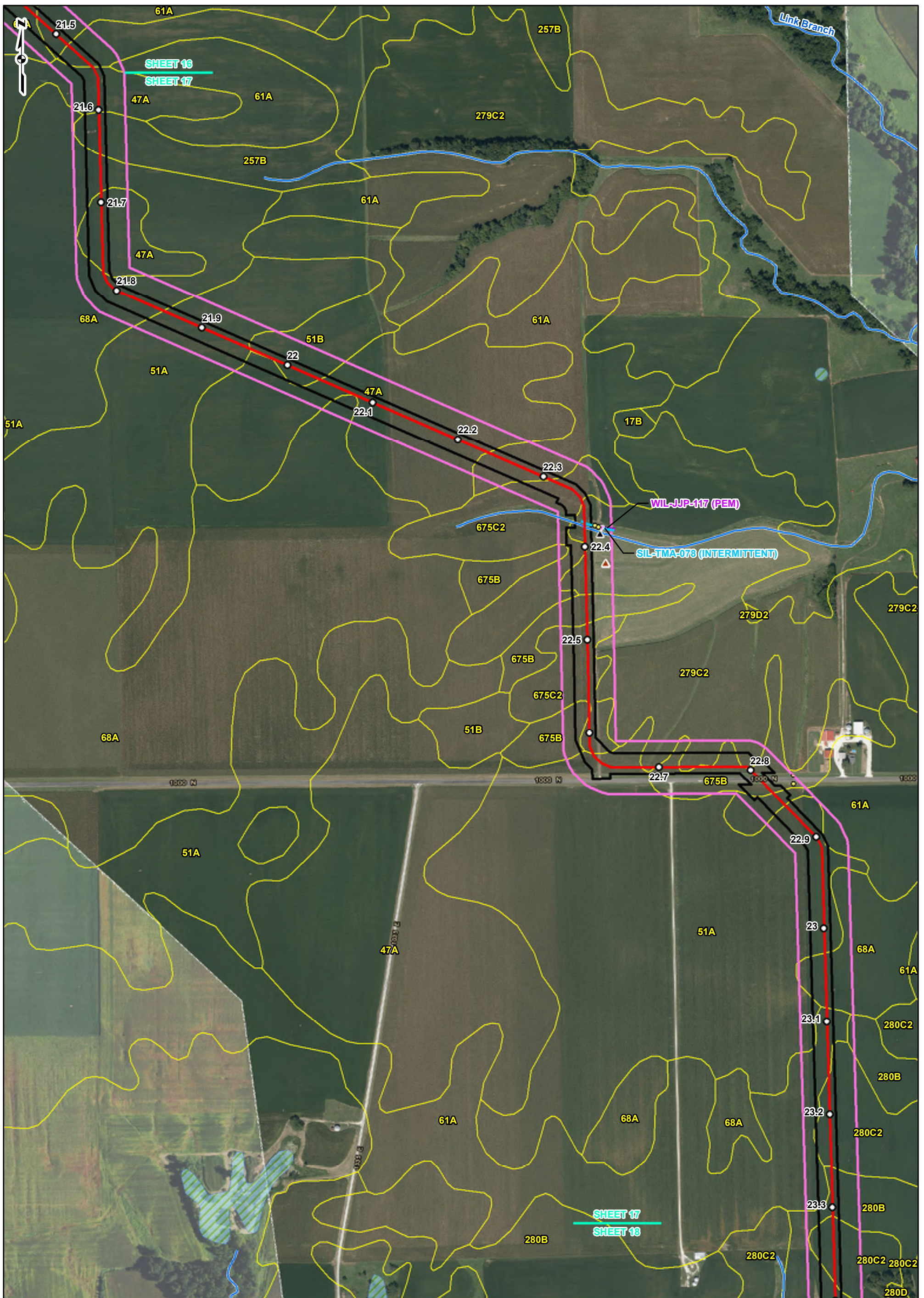
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| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | WETLAND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | POND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 16 OF 51

**SPIRE STL
PIPELINE
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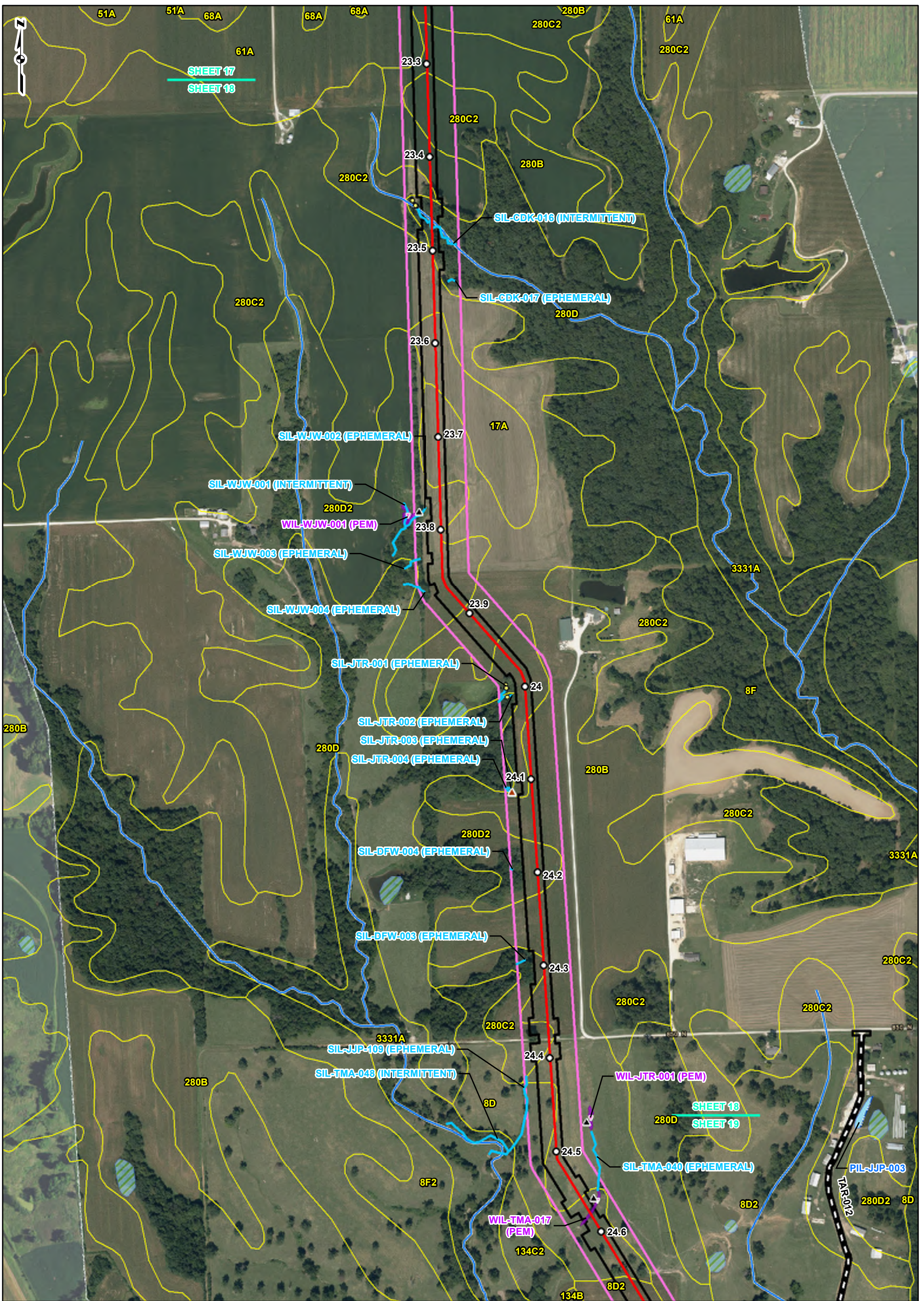
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 ILLINOIS (2015), FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | |
|--------|----------------------|--|------------------------|
| | FACILITY | | 24-INCH PIPELINE |
| | MILEPOST | | NORTH COUNTY EXTENSION |
| | CULVERT | | STREAM |
| | GROUNDWATER SEEP | | NHD STREAM |
| | UPLAND LOCATION | | POND OPEN END |
| | WETLAND DATA POINT | | WETLAND OPEN END |
| | SOIL TEST PIT | | POND |
| | ACCESS ROAD | | WETLAND |
| | NWI WETLAND | | NWI WATERBODY |
| | 100-YEAR FLOODPLAIN | | SOIL TYPE BOUNDARY |
| | LIMIT OF DISTURBANCE | | 300-FOOT CORRIDOR |
| | COUNTY BOUNDARY | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 17 OF 51

SPIRE STL PIPELINE PROJECT



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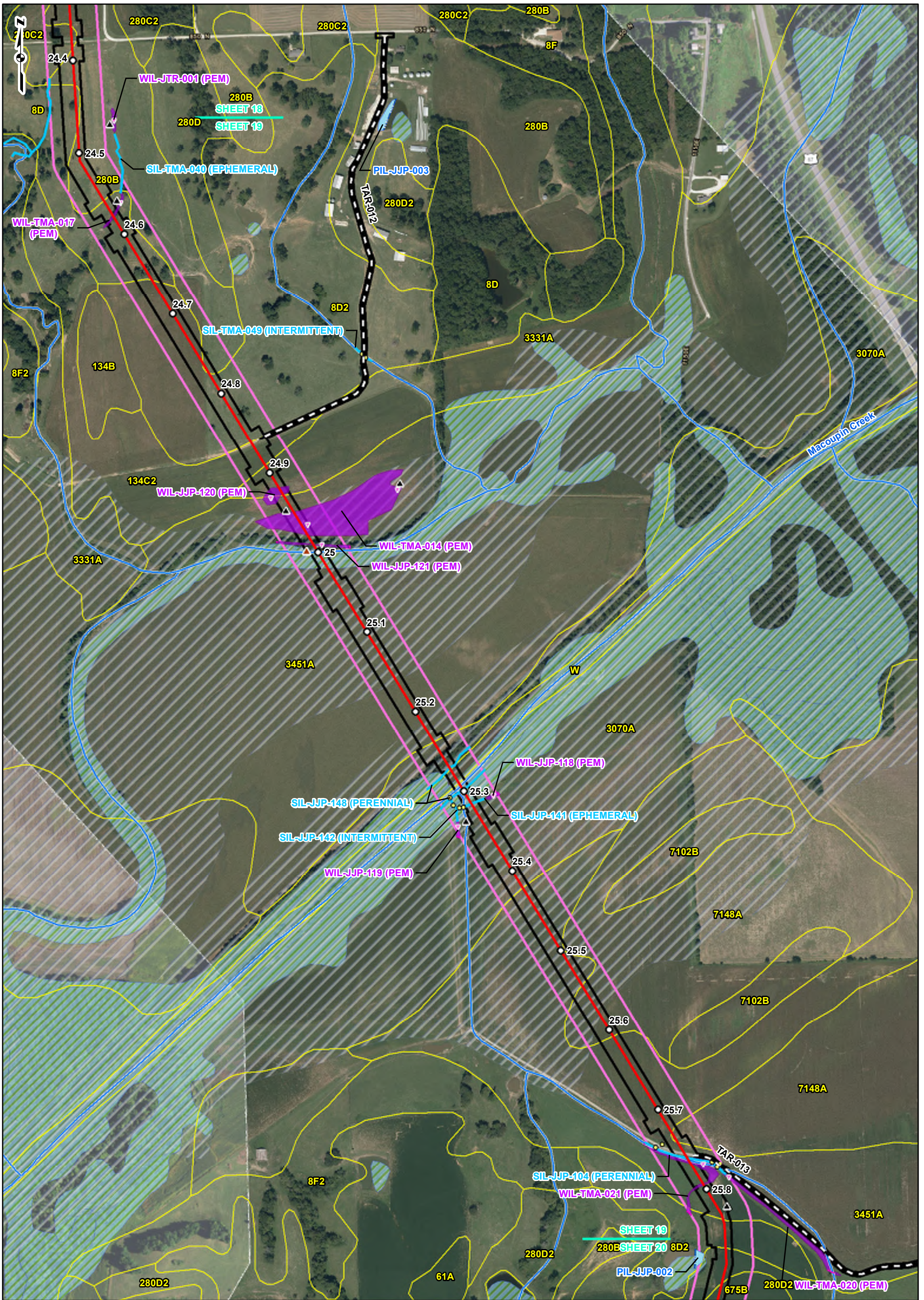
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| | MILEPOST | | NORTH COUNTY | | NWI WATERBODY |
| | CULVERT | | EXTENSION | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | NHD STREAM | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | POND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | WETLAND OPEN END | | COUNTY BOUNDARY |
| | ACCESS ROAD | | POND | | STATE BOUNDARY |
| | WETLAND | | | | |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 18 OF 51**

**SPIRE STL
PIPELINE
PROJECT**

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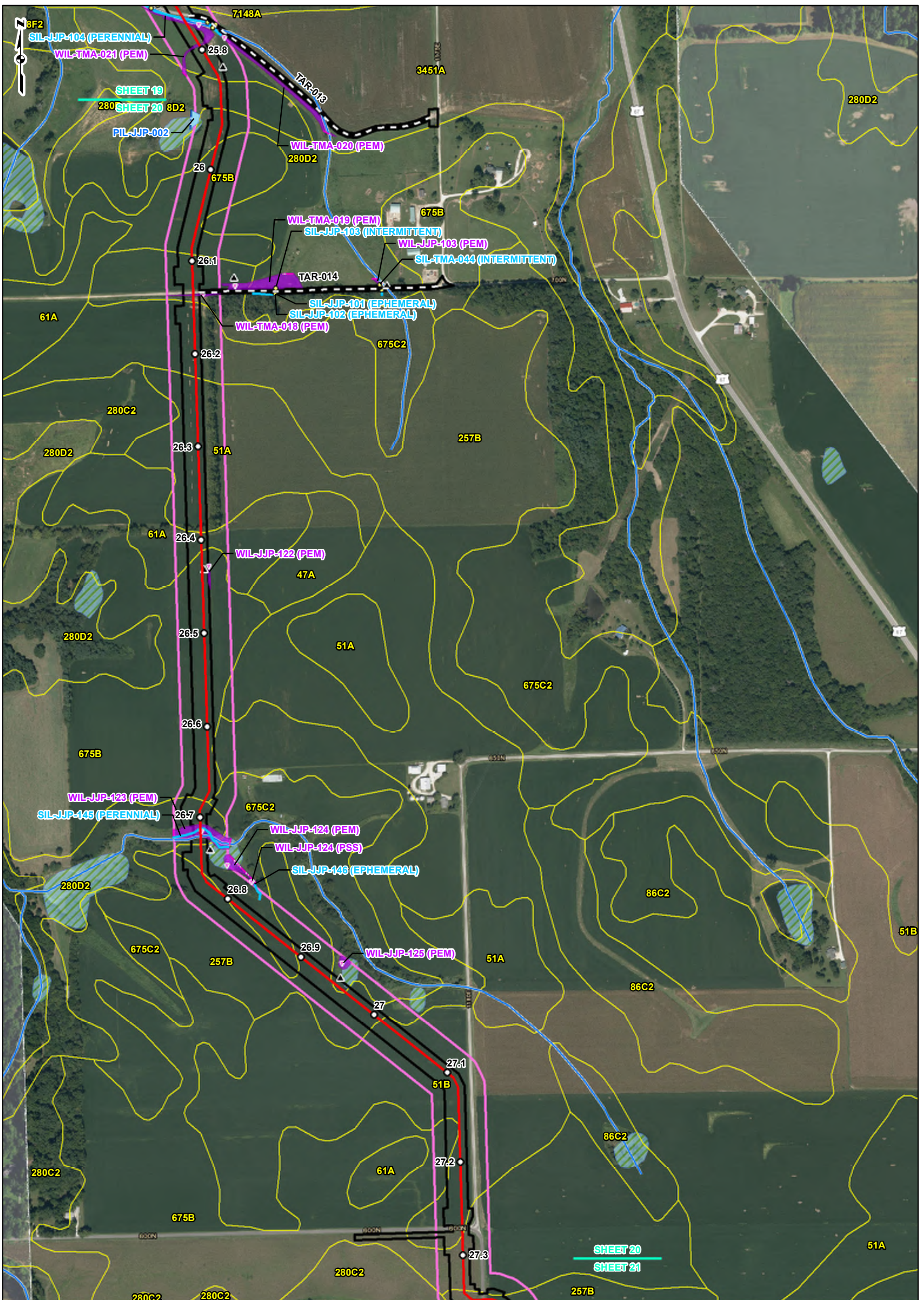
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| | FACILITY |
| | MILEPOST |
| | CULVERT |
| | GROUNDWATER SEEP |
| | UPLAND LOCATION |
| | WETLAND DATA POINT |
| | SOIL TEST PIT |
| | ACCESS ROAD |
| | 24-INCH PIPELINE |
| | NORTH COUNTY EXTENSION |
| | STREAM |
| | NHD STREAM |
| | POND OPEN END |
| | WETLAND OPEN END |
| | POND |
| | WETLAND |
| | NWI WETLAND |
| | NWI WATERBODY |
| | 100-YEAR FLOODPLAIN |
| | SOIL TYPE BOUNDARY |
| | LIMIT OF DISTURBANCE |
| | 300-FOOT CORRIDOR |
| | COUNTY BOUNDARY |
| | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 19 OF 51

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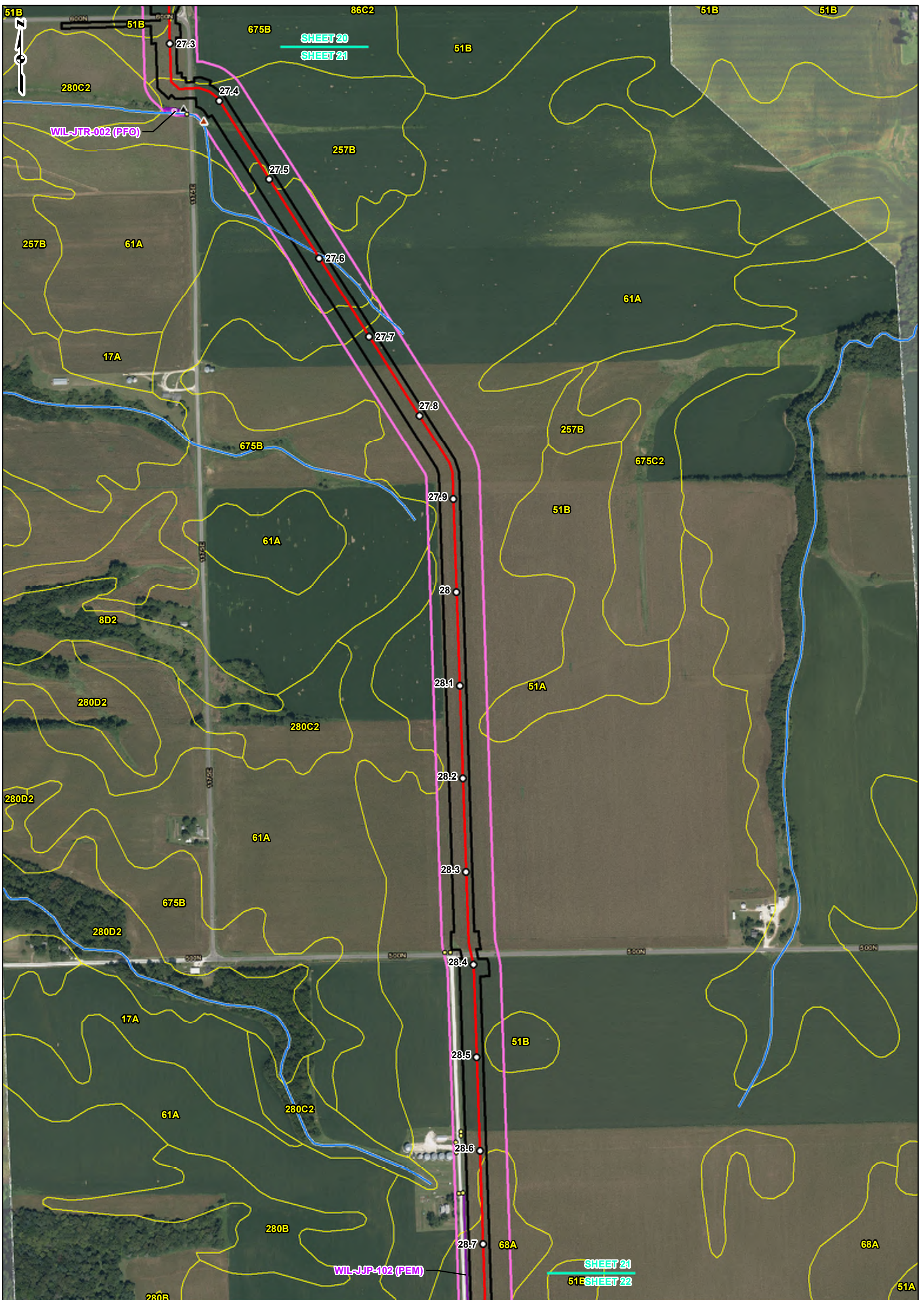
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| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | WETLAND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | POND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 20 OF 51**

**SPIRE STL
PIPELINE
PROJECT**

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| LEGEND | |
|--------|---------------------------|
| | FACILITY |
| | MILEPOST |
| | CULVERT |
| | GROUNDWATER SEEP |
| | UPLAND LOCATION |
| | WETLAND DATA POINT |
| | SOIL TEST PIT |
| | ACCESS ROAD |
| | 24-INCH PIPELINE |
| | NORTH COUNTY EXTENSION |
| | STREAM |
| | NHD STREAM |
| | POND OPEN END |
| | WETLAND OPEN END |
| | POND |
| | WETLAND |
| | NWI WETLAND |
| | NWI WATERBODY |
| | 100-YEAR FLOODPLAIN |
| | SOIL TYPE BOUNDARY |
| | LIMIT OF DISTURBANCE |
| | 300-FOOT CORRIDOR |
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| | STATE BOUNDARY |

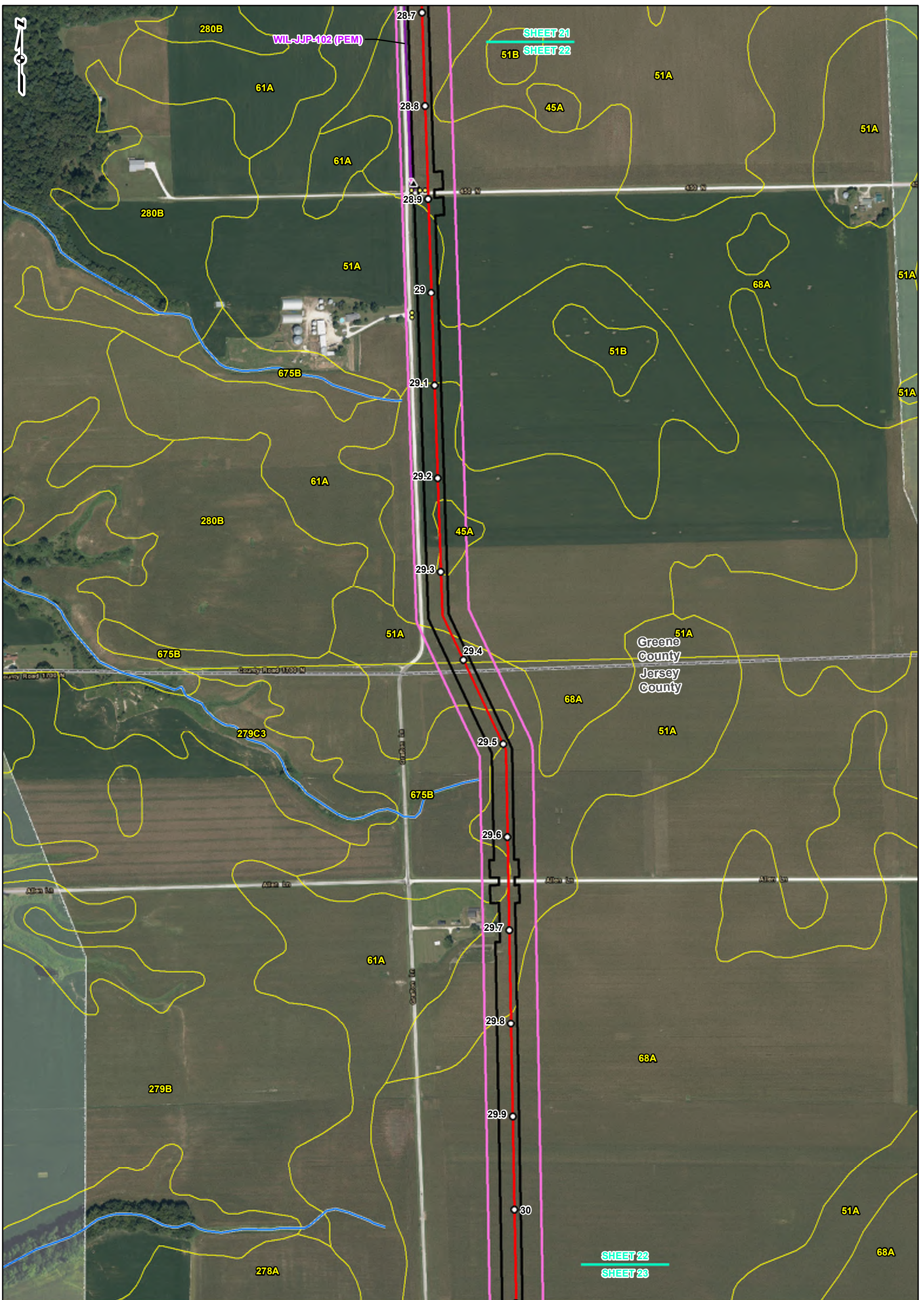
**RESOURCE LOCATION
AND SOILS MAP
SHEET 21 OF 51**

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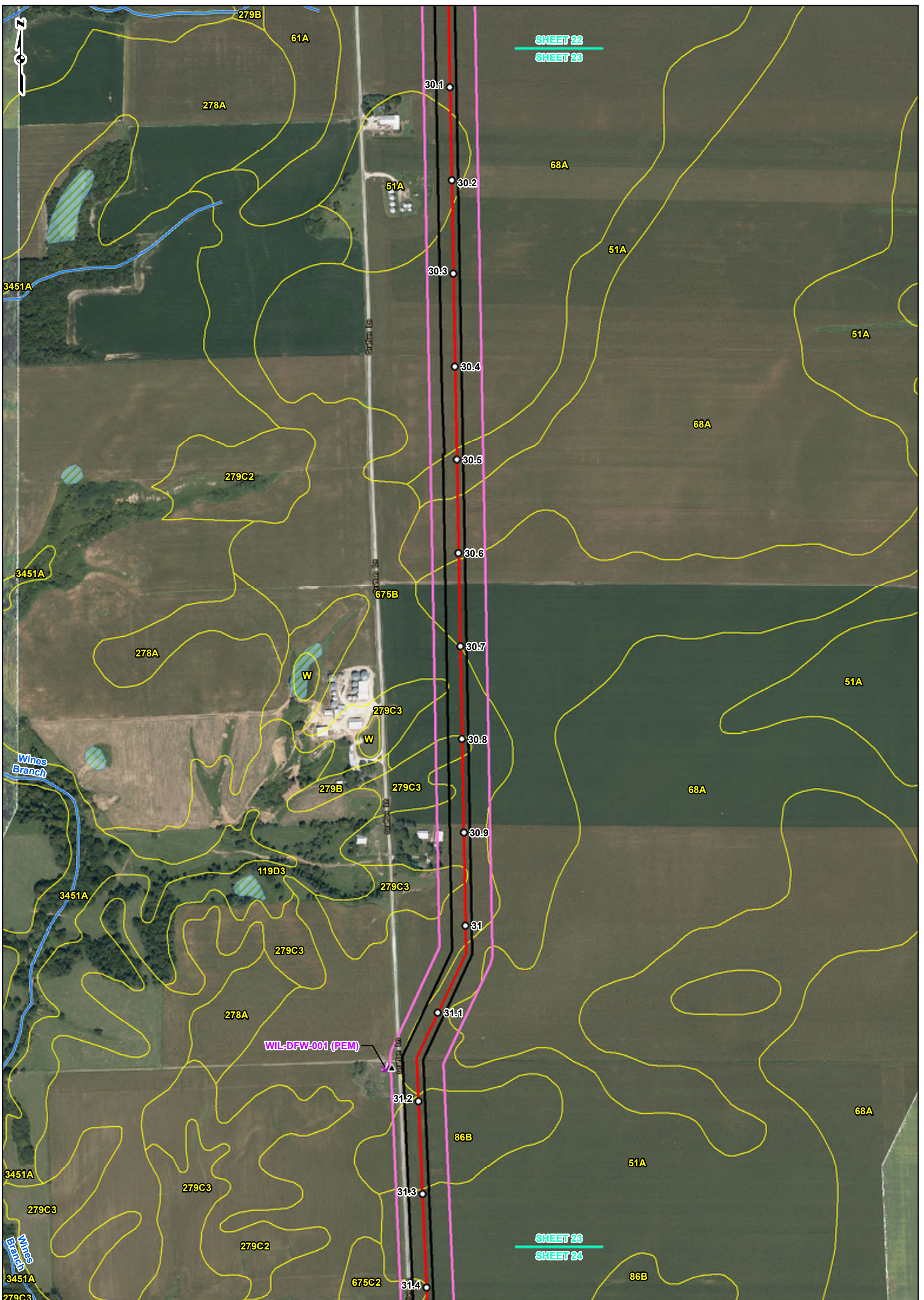
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| | MILEPOST | | NORTH COUNTY EXTENSION |
| | CULVERT | | STREAM |
| | GROUNDWATER SEEP | | NHD STREAM |
| | UPLAND LOCATION | | POND OPEN END |
| | WETLAND DATA POINT | | WETLAND OPEN END |
| | SOIL TEST PIT | | POND |
| | ACCESS ROAD | | WETLAND |
| | NWI WETLAND | | NWI WATERBODY |
| | NWI WATERBODY | | 100-YEAR FLOODPLAIN |
| | SOIL TYPE BOUNDARY | | LIMIT OF DISTURBANCE |
| | SOIL TYPE BOUNDARY | | 300-FOOT CORRIDOR |
| | LIMIT OF DISTURBANCE | | COUNTY BOUNDARY |
| | 300-FOOT CORRIDOR | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 22 OF 51

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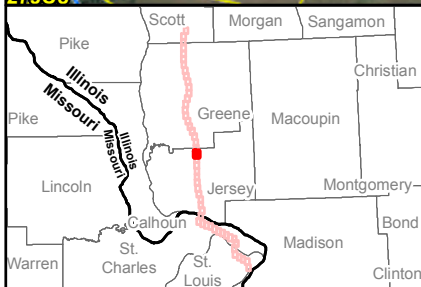
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SHEET 22
SHEET 23



SHEET 23
SHEET 24



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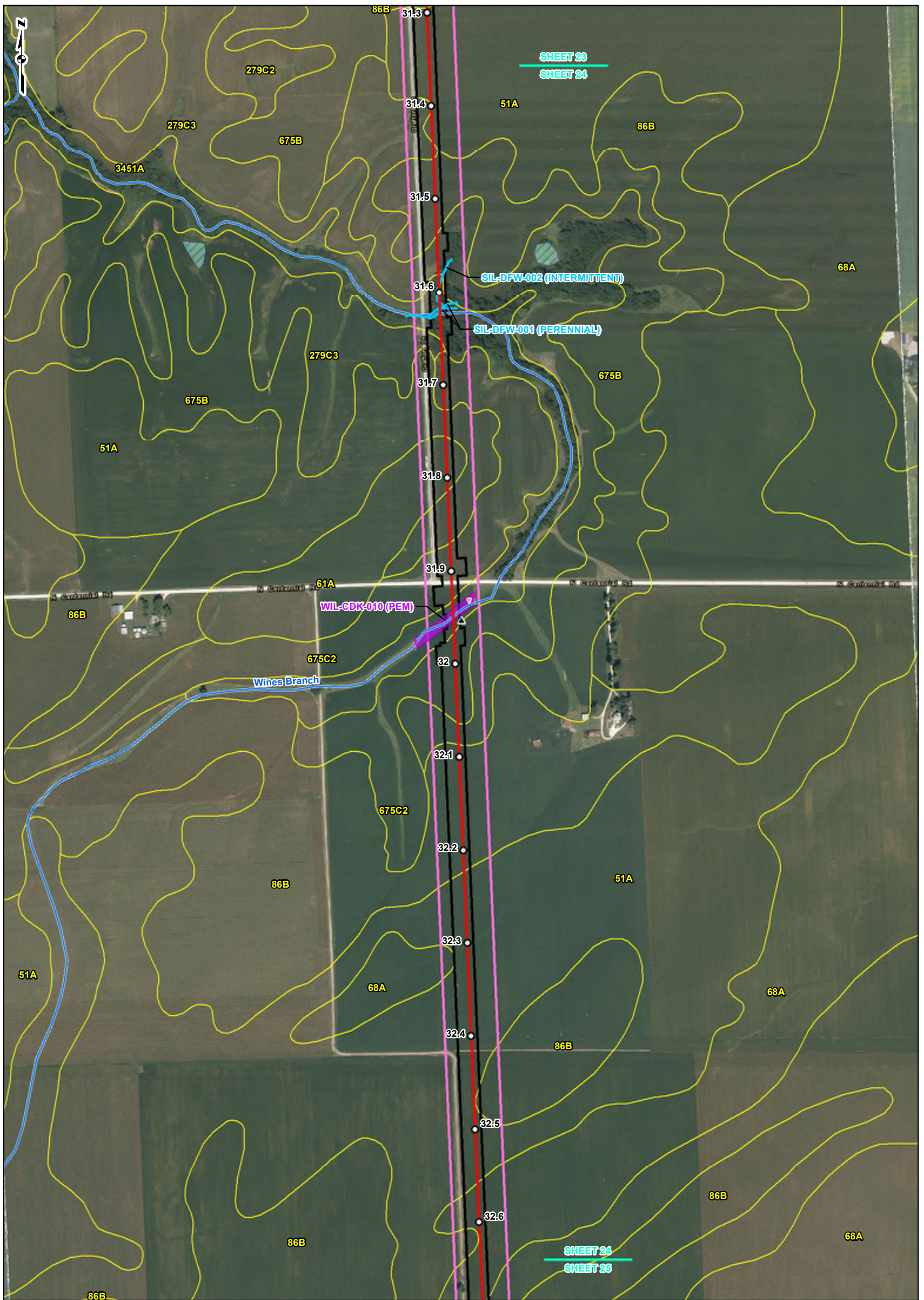
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| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | WETLAND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | POND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 23 OF 51**

**SPIRE STL
PIPELINE
PROJECT**

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| DRAWN BY: PMH | DATE: 4/20/2017 |
| CHECKED: EFJ | APPROVED: TCW |



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 FLOOD HAZARD LAYER FOR
 ILLINOIS (2015), FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | |
|--|----------------------|--|---------------------------|
| ■ | FACILITY | — | 24-INCH PIPELINE |
| ○ | MILEPOST | — | NORTH COUNTY EXTENSION |
| ● | CULVERT | — | STREAM |
| * | GROUNDWATER SEEP | — | NHD STREAM |
| ▲ | UPLAND LOCATION | — | POND OPEN END |
| ▼ | WETLAND DATA POINT | — | WETLAND OPEN END |
| ▲ | SOIL TEST PIT | ■ | POND |
| — | ACCESS ROAD | ■ | WETLAND |
| ■ | NWI WETLAND | ■ | NWI WATERBODY |
| ■ | NWI WATERBODY | ■ | 100-YEAR FLOODPLAIN |
| ■ | 100-YEAR FLOODPLAIN | ■ | SOIL TYPE BOUNDARY |
| ■ | LIMIT OF DISTURBANCE | ■ | 300-FOOT CORRIDOR |
| ■ | 300-FOOT CORRIDOR | ■ | COUNTY BOUNDARY |
| ■ | COUNTY BOUNDARY | ■ | STATE BOUNDARY |
| ■ | STATE BOUNDARY | | |

RESOURCE LOCATION AND SOILS MAP SHEET 24 OF 51

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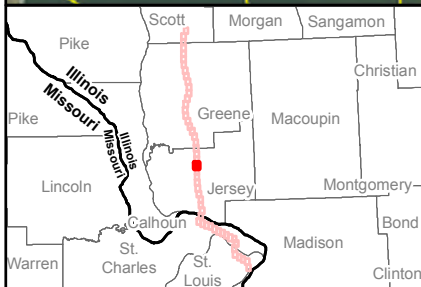
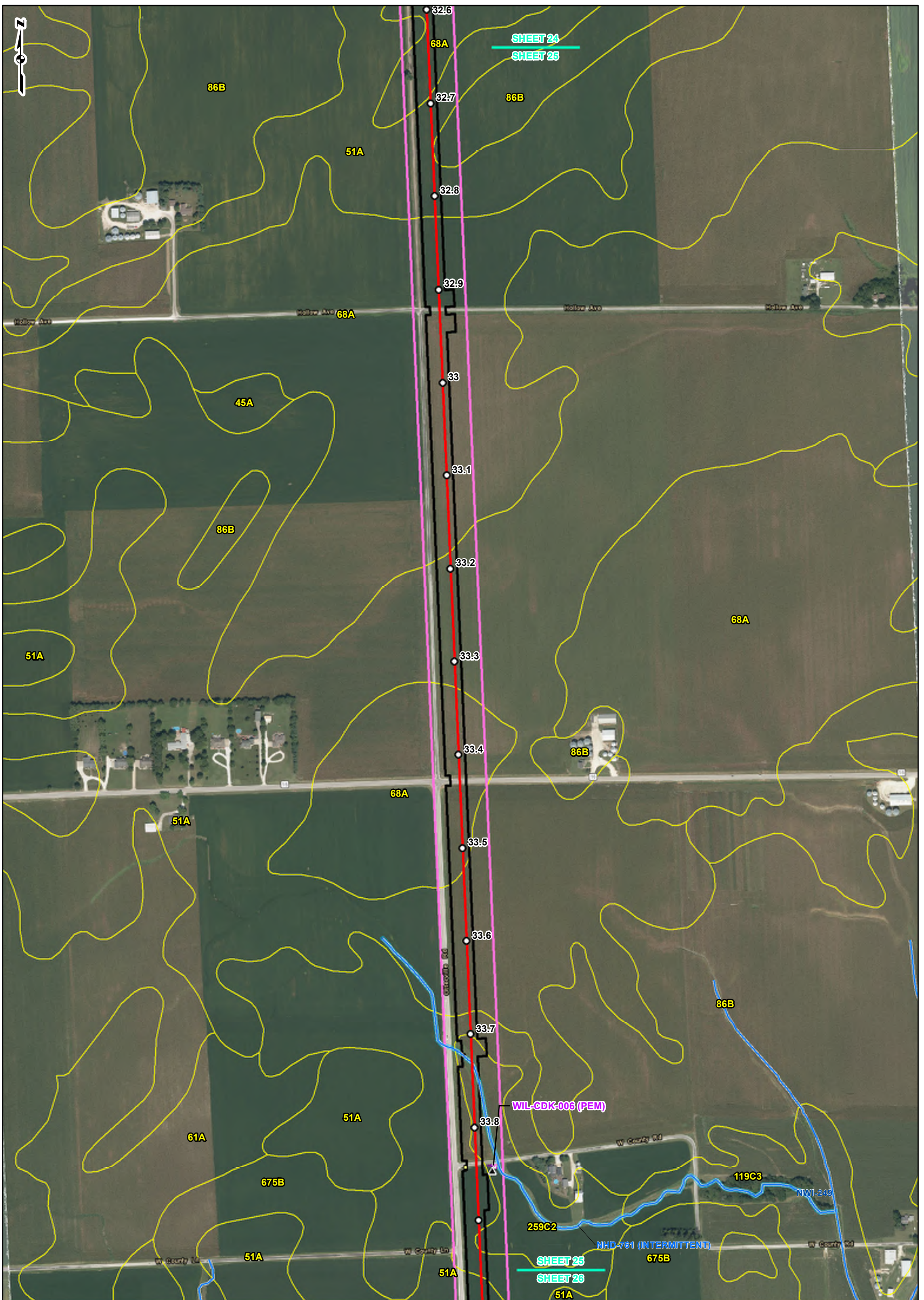
**SPIRE STL
PIPELINE
PROJECT**

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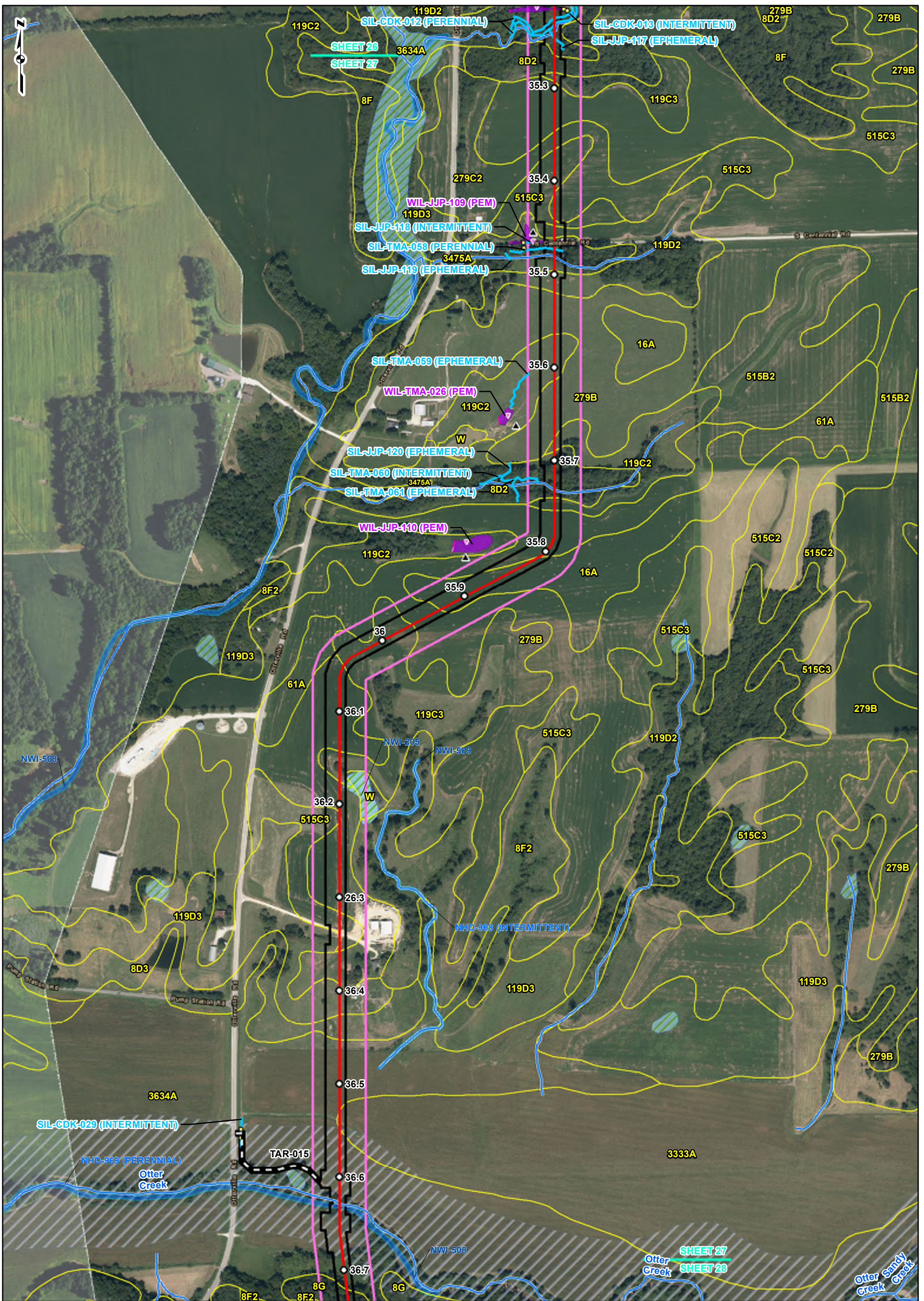
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 ILLINOIS (2015). FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | |
|---|--|
| ■ FACILITY | — 24-INCH PIPELINE |
| ○ MILEPOST | — NORTH COUNTY EXTENSION |
| ● CULVERT | — STREAM |
| * GROUNDWATER SEEP | — NHD STREAM |
| ▲ UPLAND LOCATION | — POND OPEN END |
| ▼ WETLAND DATA POINT | — WETLAND OPEN END |
| ▲ SOIL TEST PIT | — POND |
| — ACCESS ROAD | — WETLAND |
| ▨ NWI WETLAND | ▨ NWI WATERBODY |
| ▨ 100-YEAR FLOODPLAIN | ▨ SOIL TYPE BOUNDARY |
| ▨ LIMIT OF DISTURBANCE | ▨ 300-FOOT CORRIDOR |
| ▨ COUNTY BOUNDARY | ▨ STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 25 OF 51

SPIRE STL PIPELINE PROJECT

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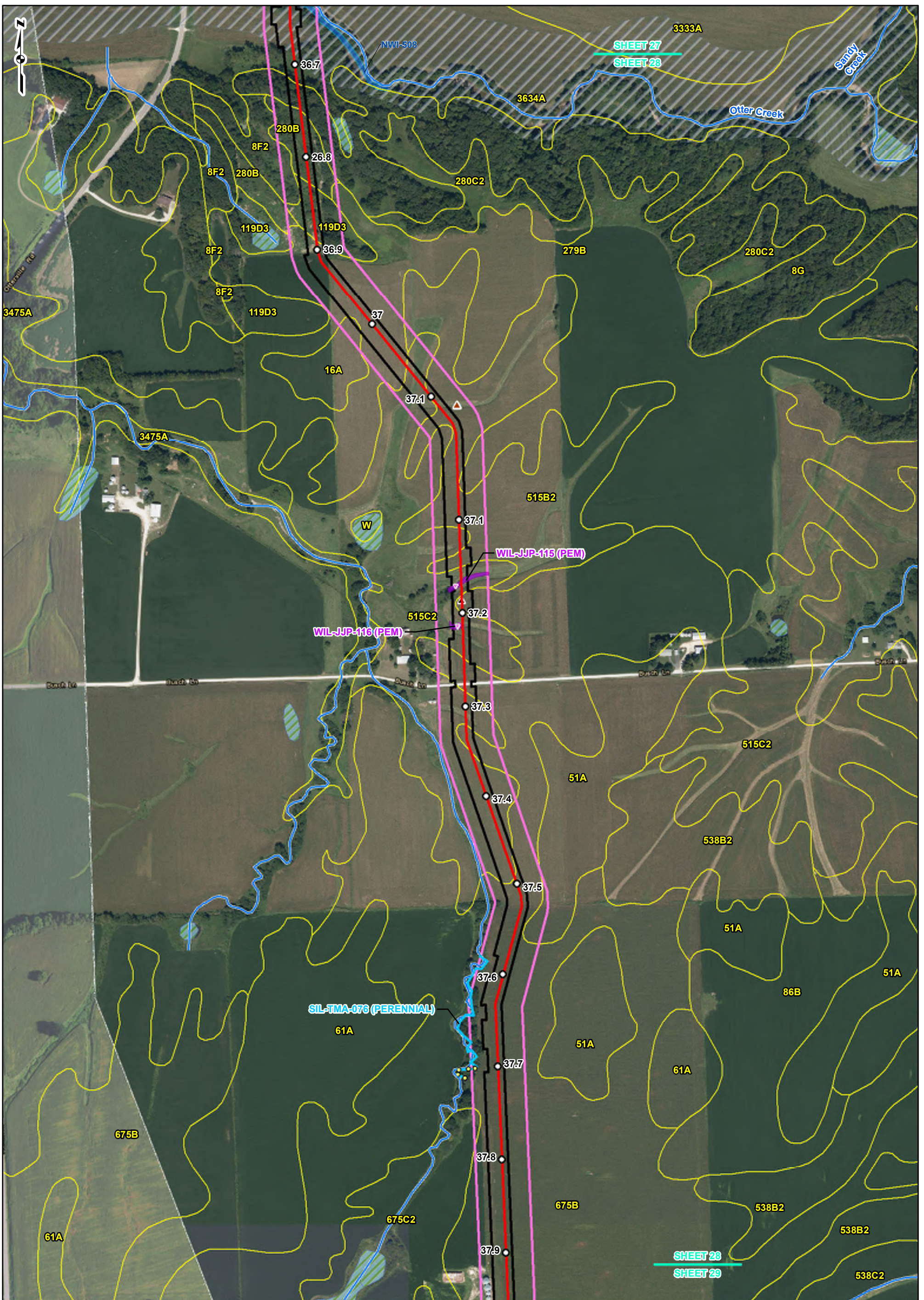
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| LEGEND | | | |
|--------|----------------------|--|------------------------|
| | FACILITY | | 24-INCH PIPELINE |
| | MILEPOST | | NORTH COUNTY EXTENSION |
| | CULVERT | | STREAM |
| | GROUNDWATER SEEP | | NHD STREAM |
| | UPLAND LOCATION | | POND OPEN END |
| | WETLAND DATA POINT | | WETLAND OPEN END |
| | SOIL TEST PIT | | POND |
| | ACCESS ROAD | | WETLAND |
| | NWI WETLAND | | NWI WATERBODY |
| | 100-YEAR FLOODPLAIN | | SOIL TYPE BOUNDARY |
| | LIMIT OF DISTURBANCE | | 300-FOOT CORRIDOR |
| | COUNTY BOUNDARY | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 27 OF 51

SPIRE STL PIPELINE PROJECT

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REFERENCE:
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 FLOOD HAZARD LAYER FOR
 ILLINOIS (2015), FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | |
|--------|---------------------------|
| | FACILITY |
| | MILEPOST |
| | CULVERT |
| | GROUNDWATER SEEP |
| | UPLAND LOCATION |
| | WETLAND DATA POINT |
| | SOIL TEST PIT |
| | ACCESS ROAD |
| | 24-INCH PIPELINE |
| | NORTH COUNTY EXTENSION |
| | STREAM |
| | NHD STREAM |
| | POND OPEN END |
| | WETLAND OPEN END |
| | POND |
| | WETLAND |
| | NWI WETLAND |
| | NWI WATERBODY |
| | 100-YEAR FLOODPLAIN |
| | SOIL TYPE BOUNDARY |
| | LIMIT OF DISTURBANCE |
| | 300-FOOT CORRIDOR |
| | COUNTY BOUNDARY |
| | STATE BOUNDARY |

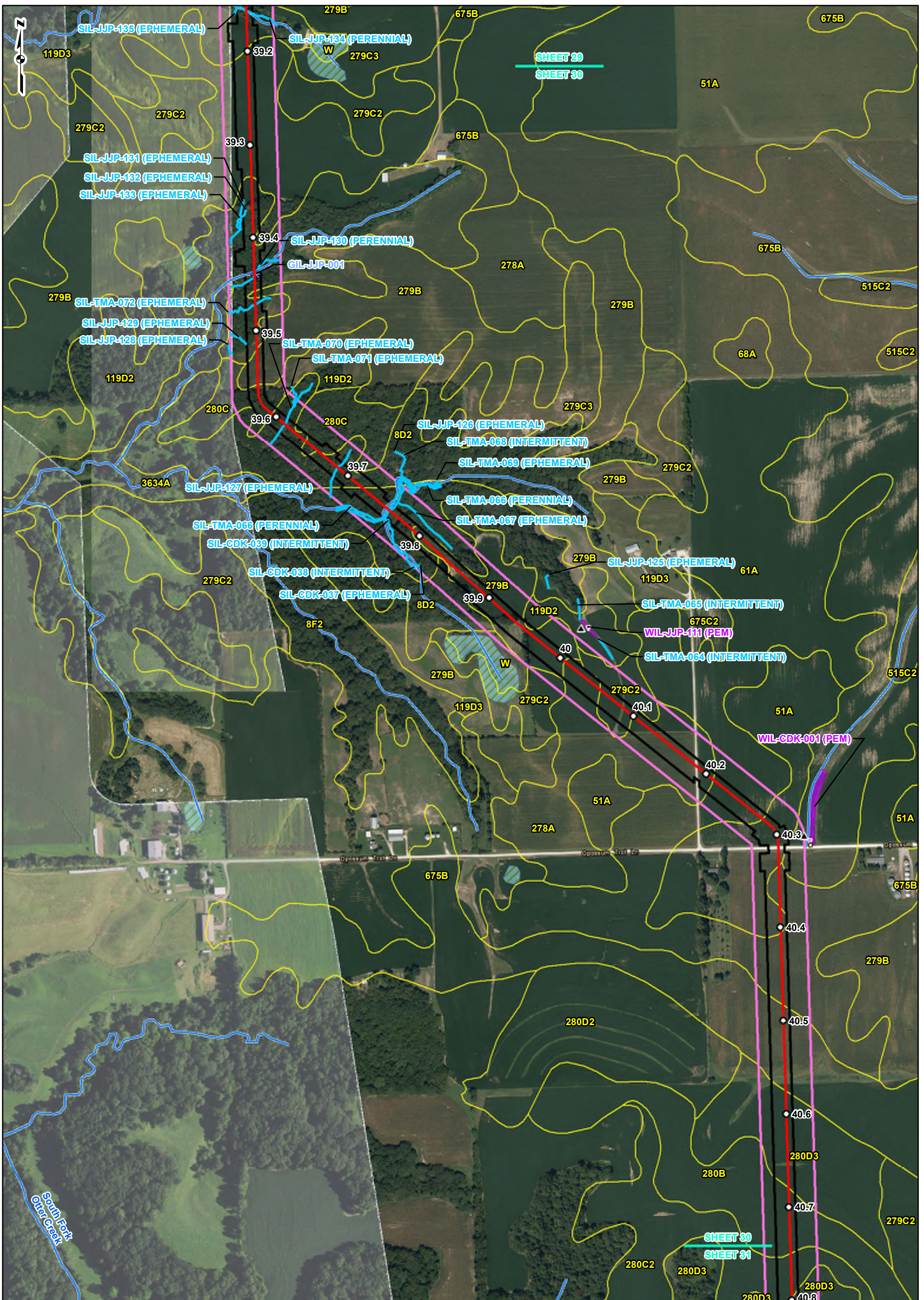
**RESOURCE LOCATION
AND SOILS MAP
SHEET 28 OF 51**

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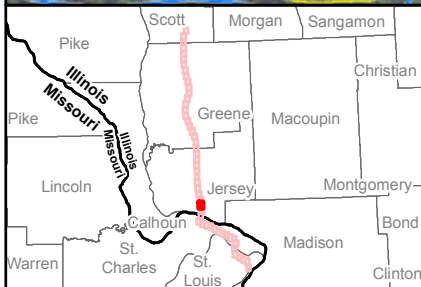
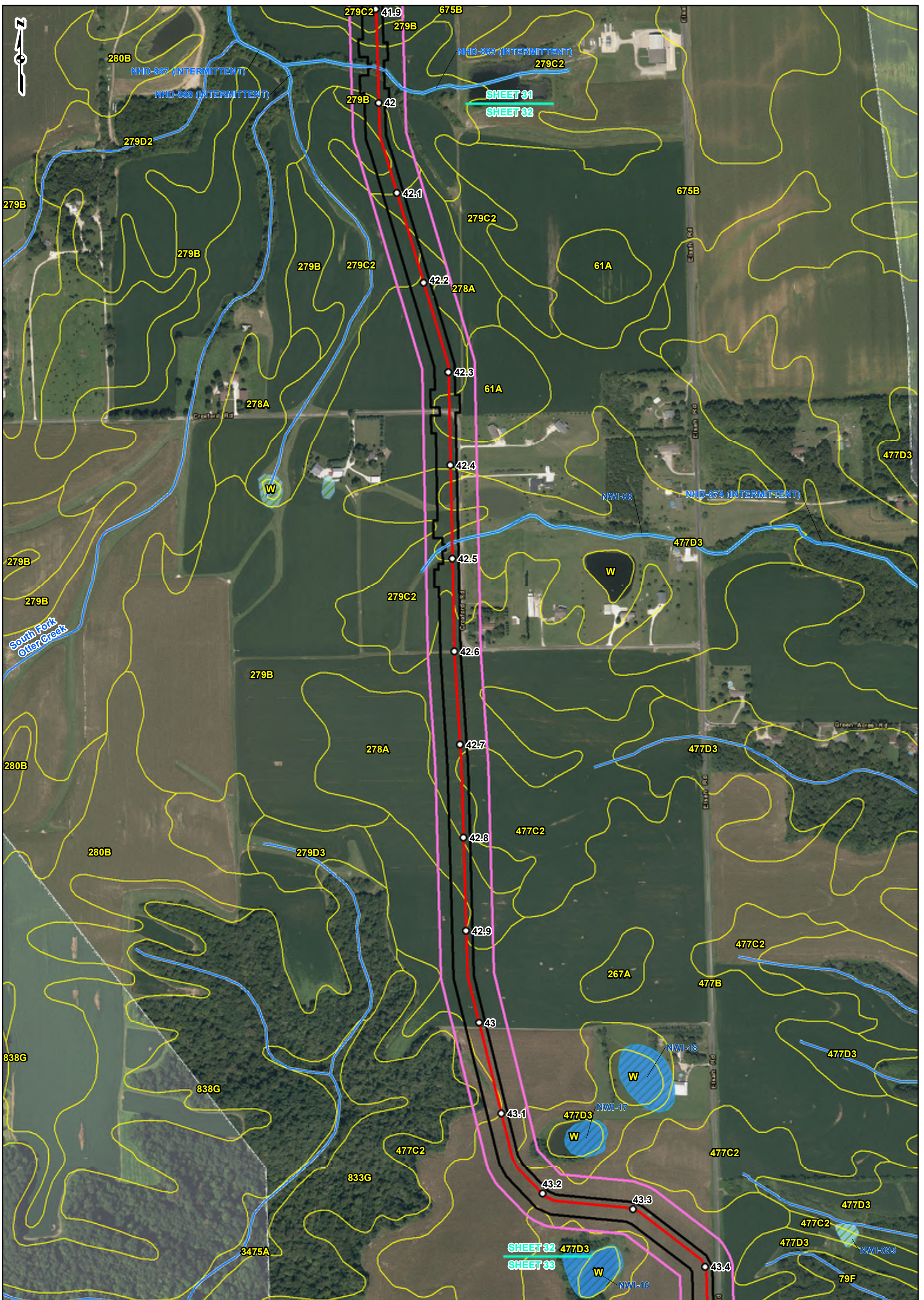
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 ILLINOIS (2015). FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | |
|--|---|
| ■ FACILITY | — 24-INCH PIPELINE |
| ○ MILEPOST | — NORTH COUNTY |
| ● CULVERT | — EXTENSION |
| * GROUNDWATER SEEP | — STREAM |
| ▲ UPLAND LOCATION | — NHD STREAM |
| ▲ WETLAND DATA POINT | — POND OPEN END |
| ▲ SOIL TEST PIT | — WETLAND OPEN END |
| — ACCESS ROAD | — POND |
| ■ NWI WETLAND | — WETLAND |
| ■ NWI WATERBODY | — WETLAND |
| — 100-YEAR FLOODPLAIN | — WETLAND |
| — SOIL TYPE BOUNDARY | — LIMIT OF DISTURBANCE |
| — 300-FOOT CORRIDOR | — COUNTY BOUNDARY |
| — STATE BOUNDARY | — STATE BOUNDARY |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 30 OF 51**

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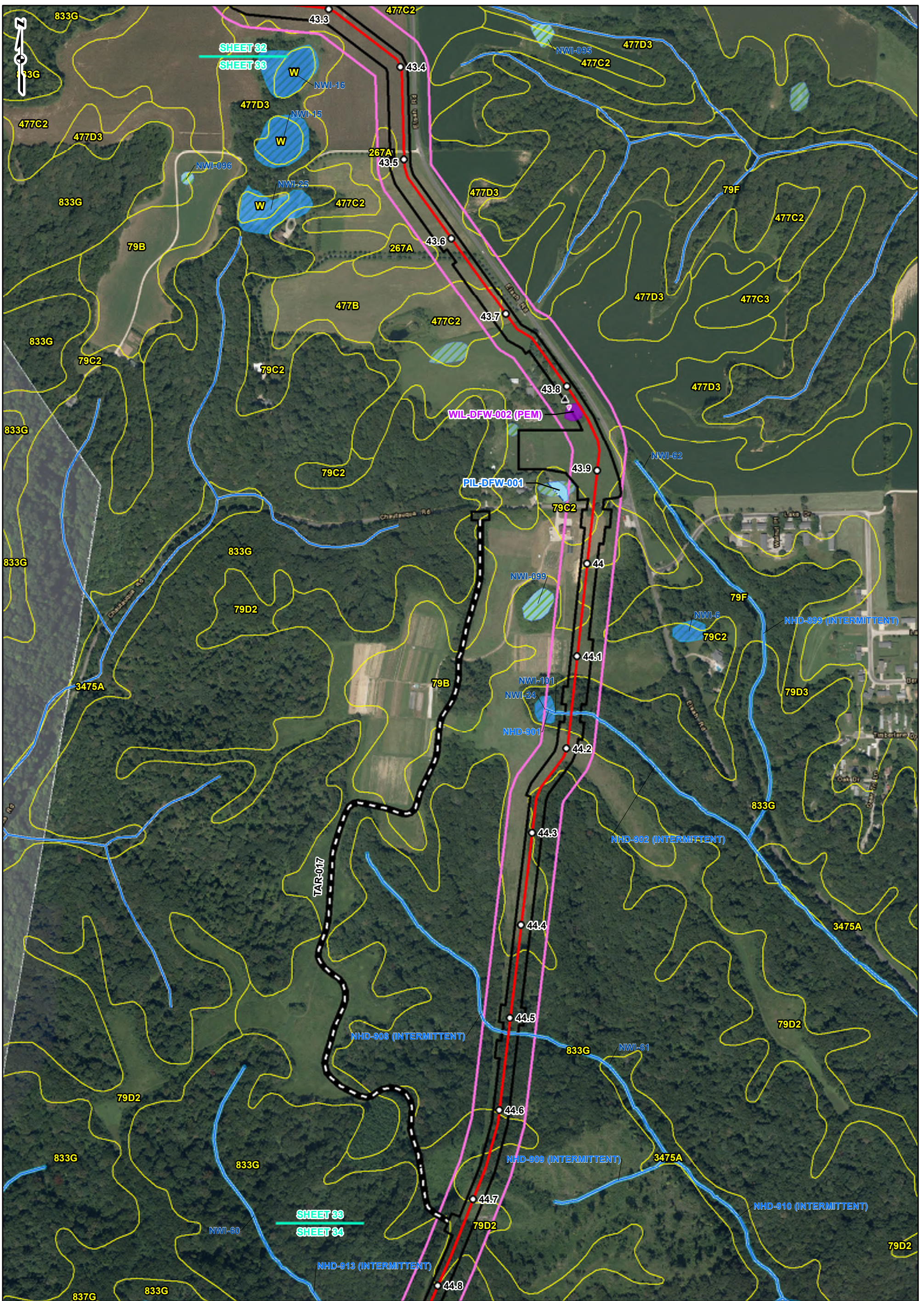
| LEGEND | |
|--------|---------------------------|
| | FACILITY |
| | MILEPOST |
| | CULVERT |
| | GROUNDWATER SEEP |
| | UPLAND LOCATION |
| | WETLAND DATA POINT |
| | SOIL TEST PIT |
| | ACCESS ROAD |
| | 24-INCH PIPELINE |
| | NORTH COUNTY EXTENSION |
| | STREAM |
| | NHD STREAM |
| | POND OPEN END |
| | WETLAND OPEN END |
| | POND |
| | WETLAND |
| | NWI WETLAND |
| | NWI WATERBODY |
| | 100-YEAR FLOODPLAIN |
| | SOIL TYPE BOUNDARY |
| | LIMIT OF DISTURBANCE |
| | 300-FOOT CORRIDOR |
| | COUNTY BOUNDARY |
| | STATE BOUNDARY |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 32 OF 51**

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 spire consultants

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PIPELINE
PROJECT**

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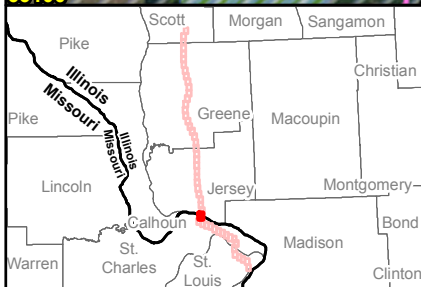
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 ILLINOIS (2015). FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | |
|---|--|
| ■ FACILITY | — 24-INCH PIPELINE |
| ○ MILEPOST | — NORTH COUNTY |
| ● CULVERT | — EXTENSION |
| * GROUNDWATER SEEP | — STREAM |
| ▲ UPLAND LOCATION | — NHD STREAM |
| ▼ WETLAND DATA POINT | — POND OPEN END |
| ▲ SOIL TEST PIT | — WETLAND OPEN END |
| — ACCESS ROAD | ■ POND |
| | ■ WETLAND |
| | ■ NWI WETLAND |
| | ■ NWI WATERBODY |
| | ■ 100-YEAR FLOODPLAIN |
| | ■ SOIL TYPE BOUNDARY |
| | — LIMIT OF DISTURBANCE |
| | — 300-FOOT CORRIDOR |
| | — COUNTY BOUNDARY |
| | — STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 33 OF 51

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| CHECKED: EFJ | APPROVED: TCW |



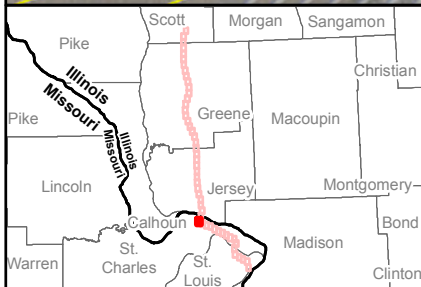
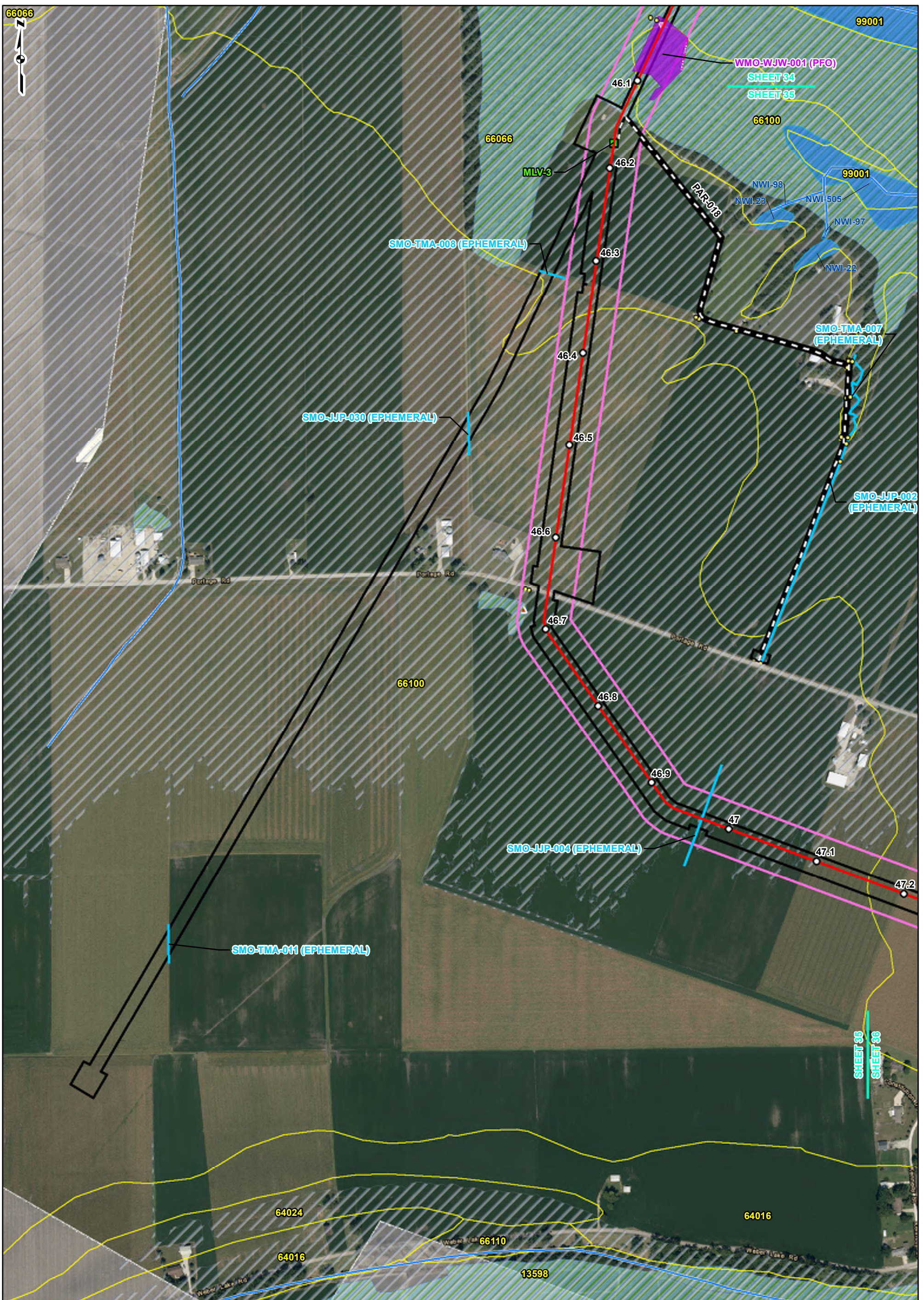
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 FLOOD HAZARD LAYER FOR
 ILLINOIS (2015), FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | |
|--|----------------------|--|------------------------|
| ■ | FACILITY | — | 24-INCH PIPELINE |
| ○ | MILEPOST | — | NORTH COUNTY EXTENSION |
| ● | CULVERT | — | STREAM |
| * | GROUNDWATER SEEP | — | NHD STREAM |
| ▲ | UPLAND LOCATION | — | POND OPEN END |
| ▼ | WETLAND DATA POINT | — | WETLAND OPEN END |
| ▲ | SOIL TEST PIT | — | POND |
| — | ACCESS ROAD | — | WETLAND |
| ▨ | NWI WETLAND | ▨ | NWI WATERBODY |
| ▨ | 100-YEAR FLOODPLAIN | ▨ | SOIL TYPE BOUNDARY |
| ▭ | LIMIT OF DISTURBANCE | ▭ | 300-FOOT CORRIDOR |
| ▭ | COUNTY BOUNDARY | ▭ | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 34 OF 51

SPIRE STL PIPELINE PROJECT

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| LEGEND | | | |
|--|----------------------|--|------------------------|
| ■ | FACILITY | — | 24-INCH PIPELINE |
| ○ | MILEPOST | — | NORTH COUNTY EXTENSION |
| ● | CULVERT | — | STREAM |
| * | GROUNDWATER SEEP | — | NHD STREAM |
| ▲ | UPLAND LOCATION | — | POND OPEN END |
| ▼ | WETLAND DATA POINT | — | WETLAND OPEN END |
| ▲ | SOIL TEST PIT | — | POND |
| — | ACCESS ROAD | — | WETLAND |
| ▨ | NWI WETLAND | ▨ | 100-YEAR FLOODPLAIN |
| ▨ | NWI WATERBODY | ▨ | SOIL TYPE BOUNDARY |
| ▨ | LIMIT OF DISTURBANCE | ▨ | 300-FOOT CORRIDOR |
| ▨ | COUNTY BOUNDARY | ▨ | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP

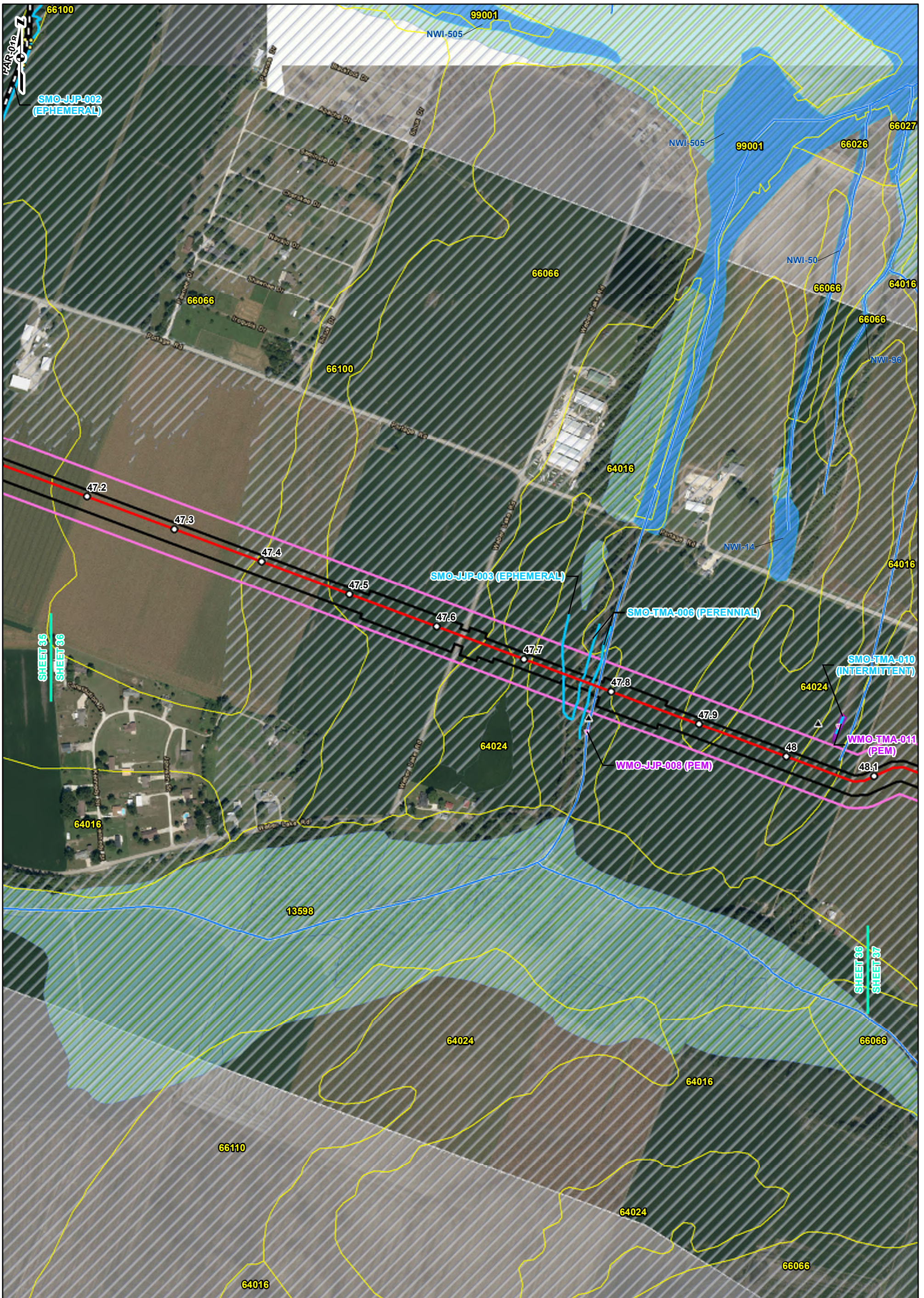
SHEET 35 OF 51

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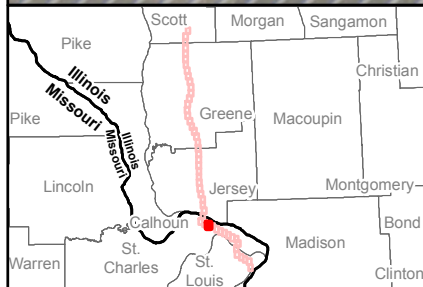
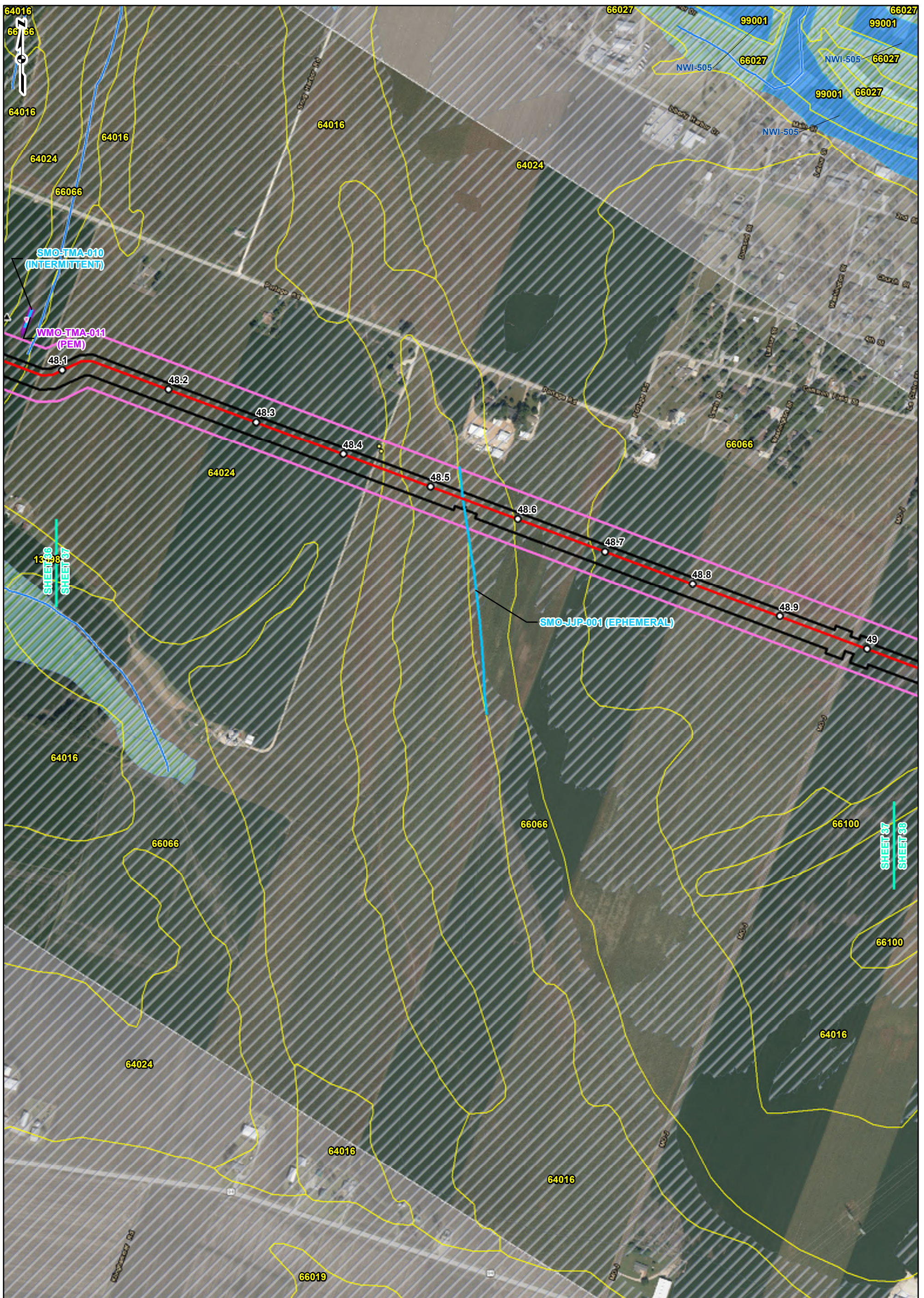
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| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | POND | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | WETLAND OPEN END | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 36 OF 51

**SPIRE STL
PIPELINE
PROJECT**

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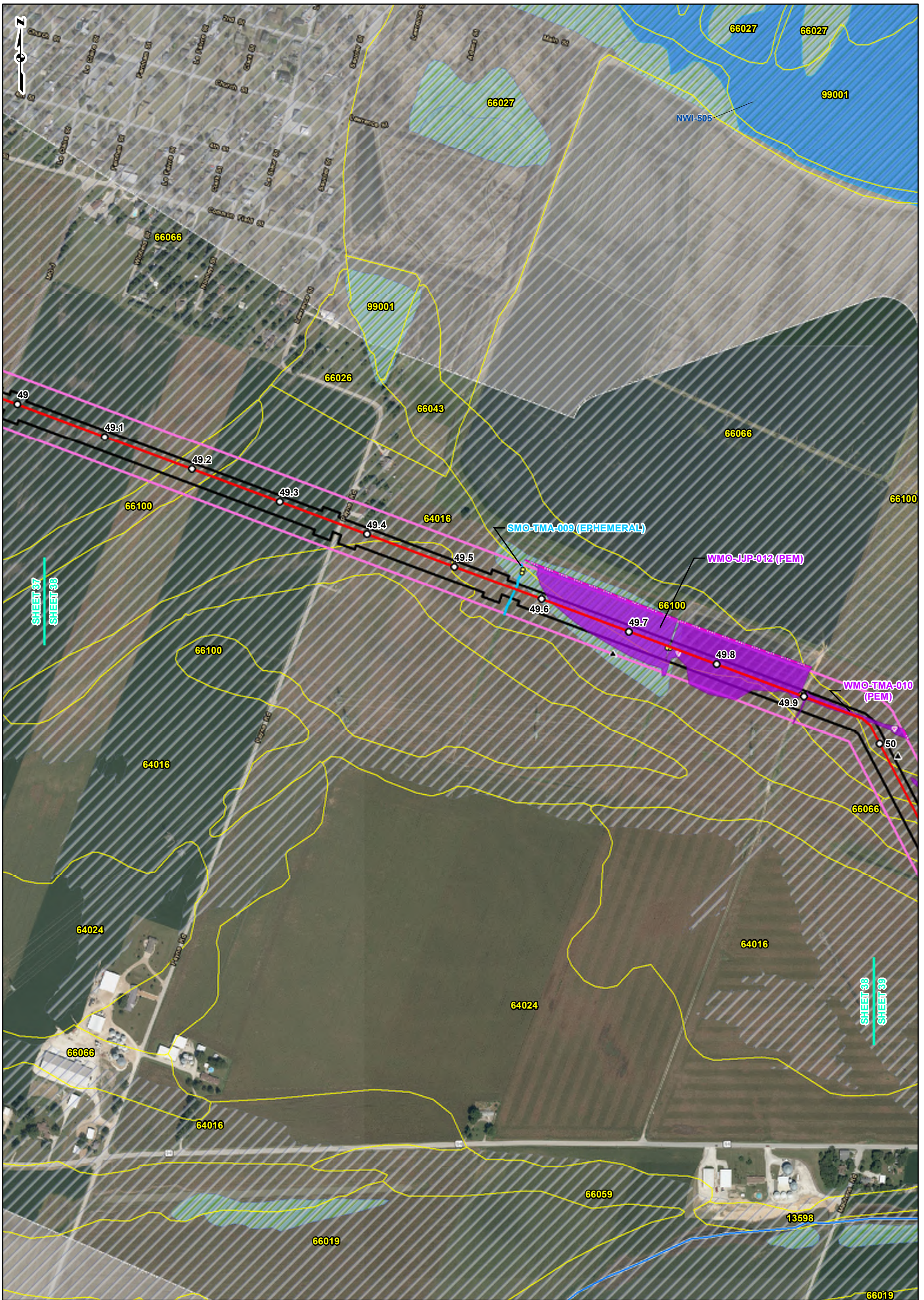


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 ILLINOIS (2015), FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | |
|---|---|--|
| ■ FACILITY | — 24-INCH PIPELINE | ▨ NWI WETLAND |
| ○ MILEPOST | — NORTH COUNTY | ▨ NWI WATERBODY |
| ● CULVERT | — EXTENSION | ▨ 100-YEAR FLOODPLAIN |
| * GROUNDWATER SEEP | — STREAM | ▨ SOIL TYPE BOUNDARY |
| ▲ UPLAND LOCATION | — NHD STREAM | ▨ LIMIT OF DISTURBANCE |
| ▼ WETLAND DATA POINT | — POND OPEN END | ▨ 300-FOOT CORRIDOR |
| ▲ SOIL TEST PIT | — WETLAND OPEN END | ▨ COUNTY BOUNDARY |
| — ACCESS ROAD | ▨ POND | ▨ STATE BOUNDARY |
| | ▨ WETLAND | |

RESOURCE LOCATION AND SOILS MAP SHEET 37 OF 51

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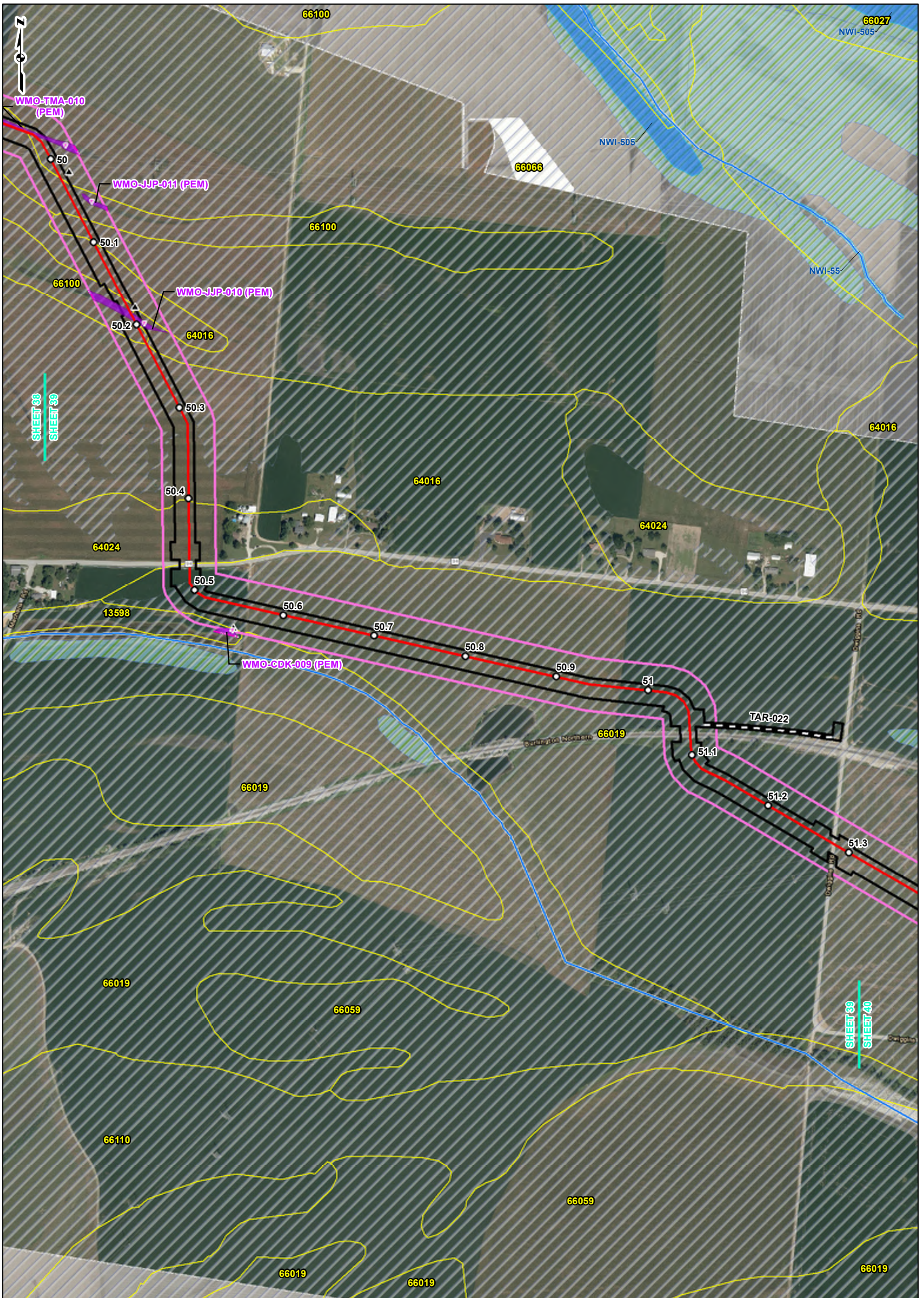
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|--------|--------------------|--|---------------------------|--|----------------------|
| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | POND | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | WETLAND OPEN END | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 38 OF 51

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH
CHECKED: EFJ

DATE: 4/20/2017
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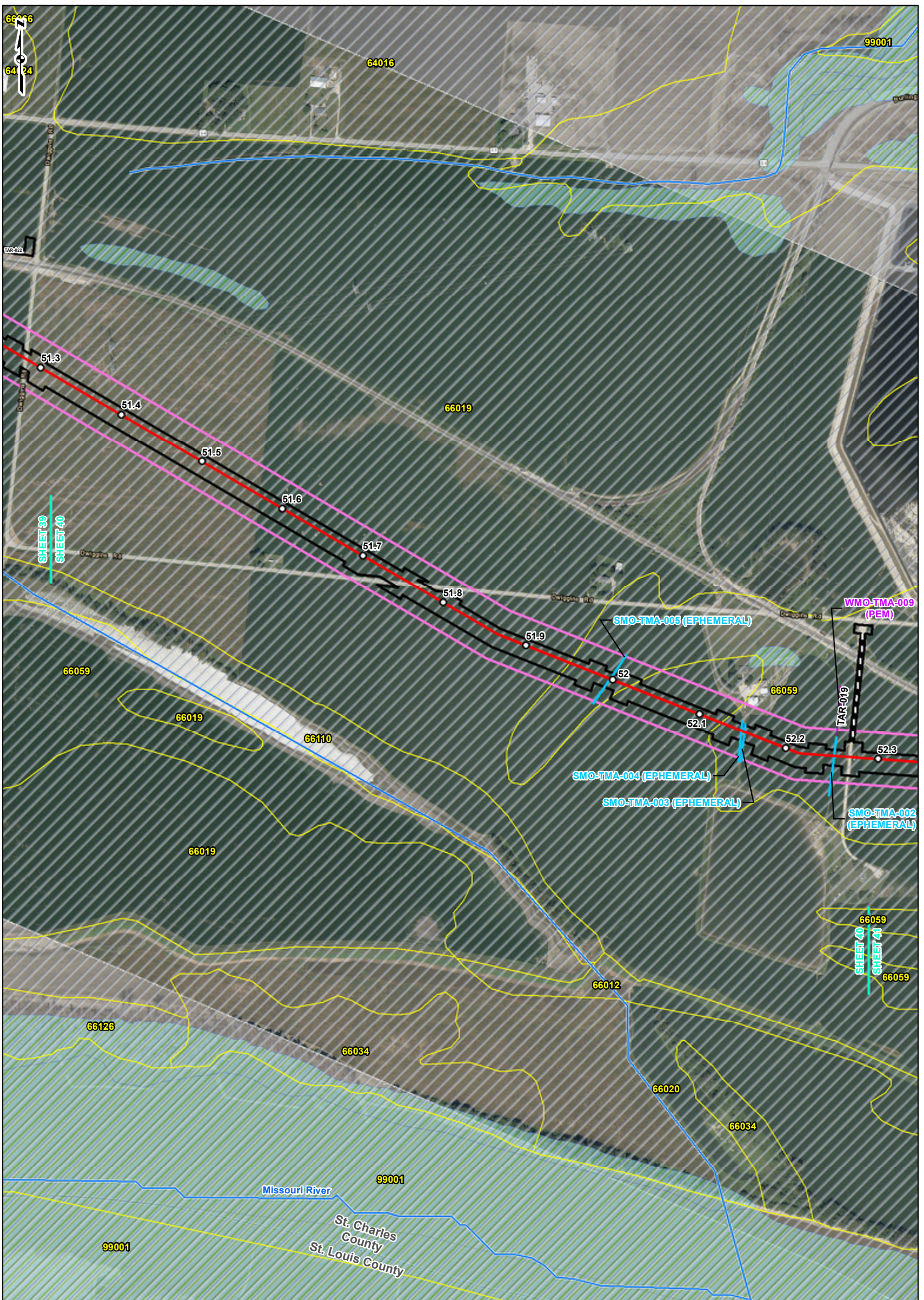
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 AGENCY (FEMA).

| LEGEND | | |
|---|---|--|
| ■ FACILITY | — 24-INCH PIPELINE | ▨ NWI WETLAND |
| ○ MILEPOST | — NORTH COUNTY | ▨ NWI WATERBODY |
| ● CULVERT | — EXTENSION | ▨ 100-YEAR FLOODPLAIN |
| * GROUNDWATER SEEP | — STREAM | ▨ SOIL TYPE BOUNDARY |
| ▲ UPLAND LOCATION | — NHD STREAM | ▭ LIMIT OF DISTURBANCE |
| ▼ WETLAND DATA POINT | — POND OPEN END | ▨ 300-FOOT CORRIDOR |
| ▲ SOIL TEST PIT | — WETLAND OPEN END | ▭ COUNTY BOUNDARY |
| — ACCESS ROAD | ▭ POND | ▭ STATE BOUNDARY |
| | ▨ WETLAND | |

RESOURCE LOCATION AND SOILS MAP SHEET 39 OF 51

SPIRE STL PIPELINE PROJECT

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| DRAWN BY: PMH | DATE: 4/20/2017 |
| CHECKED: EFJ | APPROVED: TCW |



REFERENCE:
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 AGENCY (FEMA).

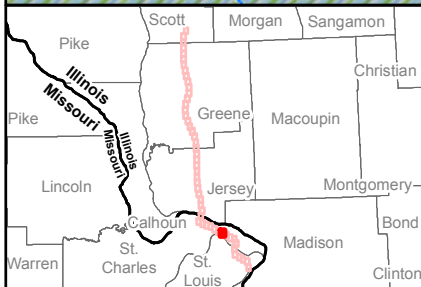
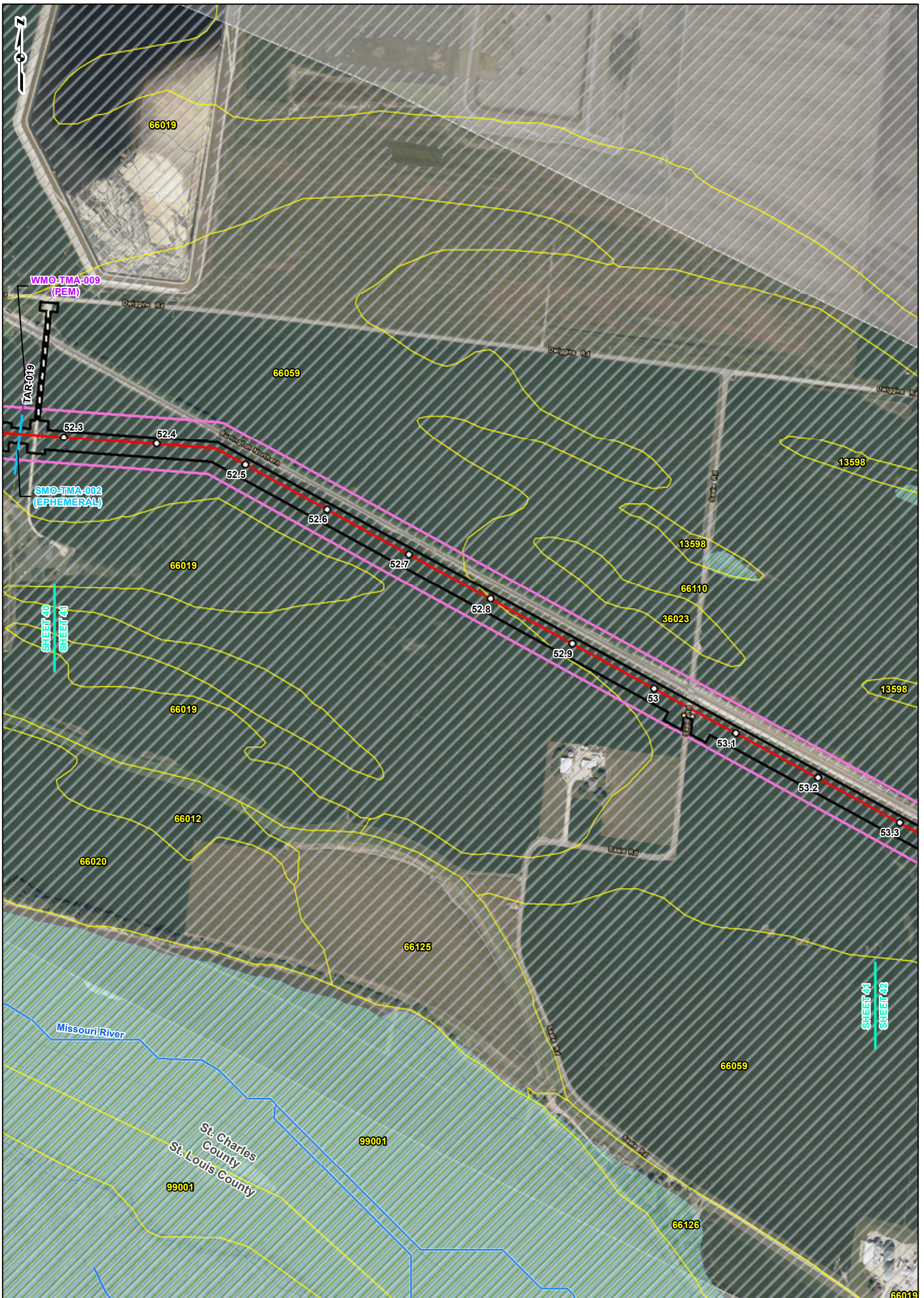
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| ■ | FACILITY | — | 24-INCH PIPELINE | ▨ | NWI WETLAND |
| ○ | MILEPOST | — | NORTH COUNTY EXTENSION | ▨ | NWI WATERBODY |
| ● | CULVERT | — | STREAM | ▨ | 100-YEAR FLOODPLAIN |
| * | GROUNDWATER SEEP | — | NHD STREAM | ▨ | SOIL TYPE BOUNDARY |
| ▲ | UPLAND LOCATION | — | POND OPEN END | ▨ | LIMIT OF DISTURBANCE |
| ▼ | WETLAND DATA POINT | — | WETLAND OPEN END | ▨ | 300-FOOT CORRIDOR |
| ▲ | SOIL TEST PIT | ▨ | POND | ▨ | COUNTY BOUNDARY |
| — | ACCESS ROAD | ▨ | WETLAND | ▨ | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 40 OF 51

**SPIRE STL
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REFERENCE:
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 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | | | |
|--------|--------------------|--|------------------|--|----------------------|
| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY | | NWI WATERBODY |
| | CULVERT | | EXTENSION | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | NHD STREAM | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | POND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | WETLAND OPEN END | | COUNTY BOUNDARY |
| | ACCESS ROAD | | POND | | STATE BOUNDARY |
| | | | WETLAND | | |

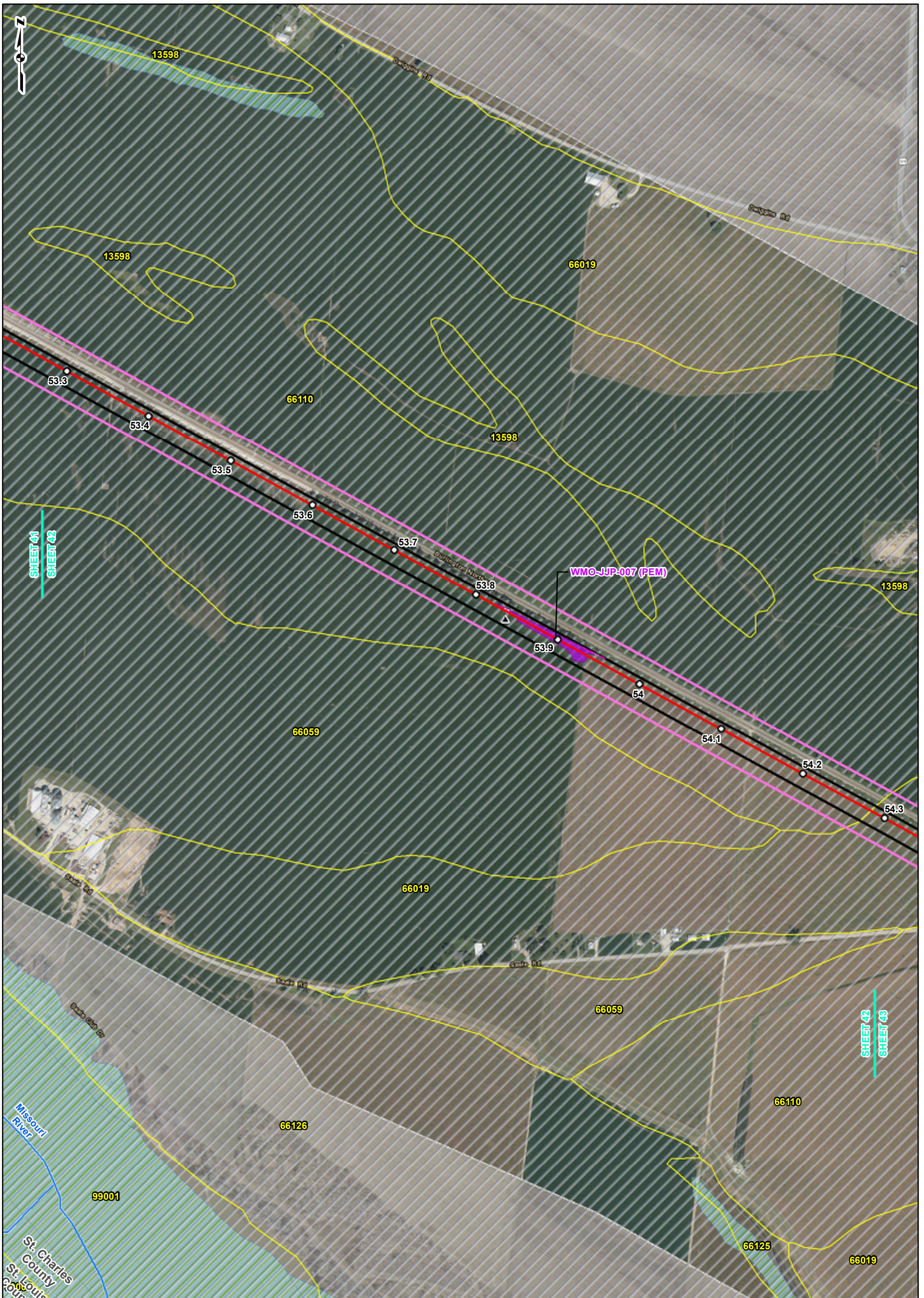
**RESOURCE LOCATION
AND SOILS MAP
SHEET 41 OF 51**

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**SPIRE STL
PIPELINE
PROJECT**

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 ILLINOIS (2015), FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).


| LEGEND | | |
|---|---|--|
| ■ FACILITY | — 24-INCH PIPELINE | ▨ NWI WETLAND |
| ○ MILEPOST | — NORTH COUNTY | ▨ NWI WATERBODY |
| ● CULVERT | — EXTENSION | ▨ 100-YEAR FLOODPLAIN |
| * GROUNDWATER SEEP | — STREAM | ▨ SOIL TYPE BOUNDARY |
| ▲ UPLAND LOCATION | — NHD STREAM | ▭ LIMIT OF DISTURBANCE |
| ▼ WETLAND DATA POINT | — POND OPEN END | ▭ 300-FOOT CORRIDOR |
| ▲ SOIL TEST PIT | — WETLAND OPEN END | ▭ COUNTY BOUNDARY |
| — ACCESS ROAD | ▭ POND | ▭ STATE BOUNDARY |
| | ▭ WETLAND | |

RESOURCE LOCATION AND SOILS MAP SHEET 42 OF 51



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SPIRE STL PIPELINE PROJECT

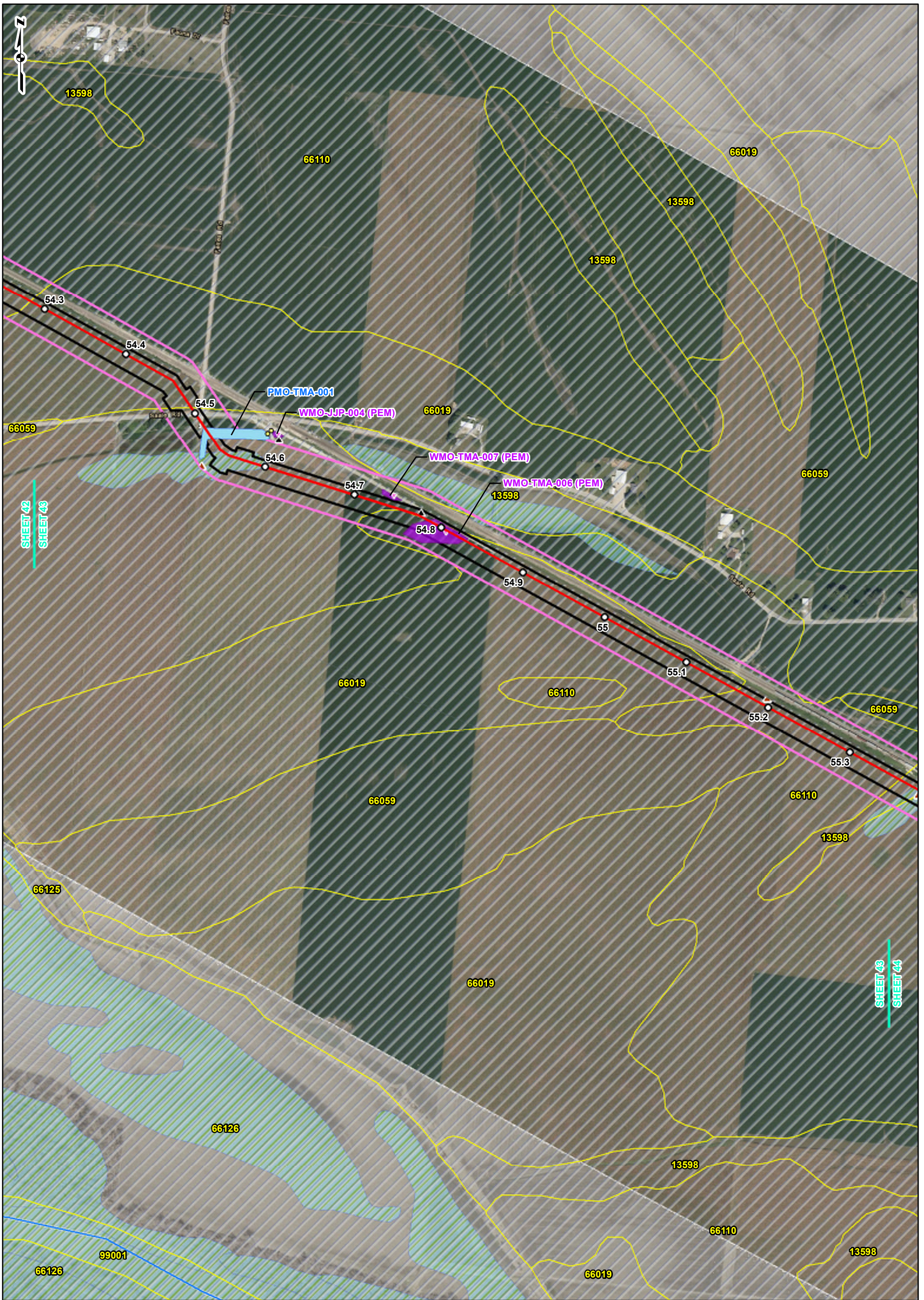


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 EMERGENCY MANAGEMENT
 AGENCY (FEMA).


| LEGEND | | | | | |
|--------------------------------------|--------------------|---|---------------------------|---|----------------------|
| ■ | FACILITY | — | 24-INCH PIPELINE | ▨ | NWI WETLAND |
| ○ | MILEPOST | — | NORTH COUNTY EXTENSION | ▨ | NWI WATERBODY |
| ● | CULVERT | — | STREAM | ▨ | 100-YEAR FLOODPLAIN |
| * | GROUNDWATER SEEP | — | NHD STREAM | ▨ | SOIL TYPE BOUNDARY |
| ▲ | UPLAND LOCATION | — | POND OPEN END | ▨ | LIMIT OF DISTURBANCE |
| ▼ | WETLAND DATA POINT | — | WETLAND OPEN END | ▨ | 300-FOOT CORRIDOR |
| ▲ | SOIL TEST PIT | ▨ | POND | ▨ | COUNTY BOUNDARY |
| — | ACCESS ROAD | ▨ | WETLAND | ▨ | STATE BOUNDARY |
| | | 0 250 500 1,000 | | | |
| | | | | | Feet |

RESOURCE LOCATION AND SOILS MAP SHEET 43 OF 51



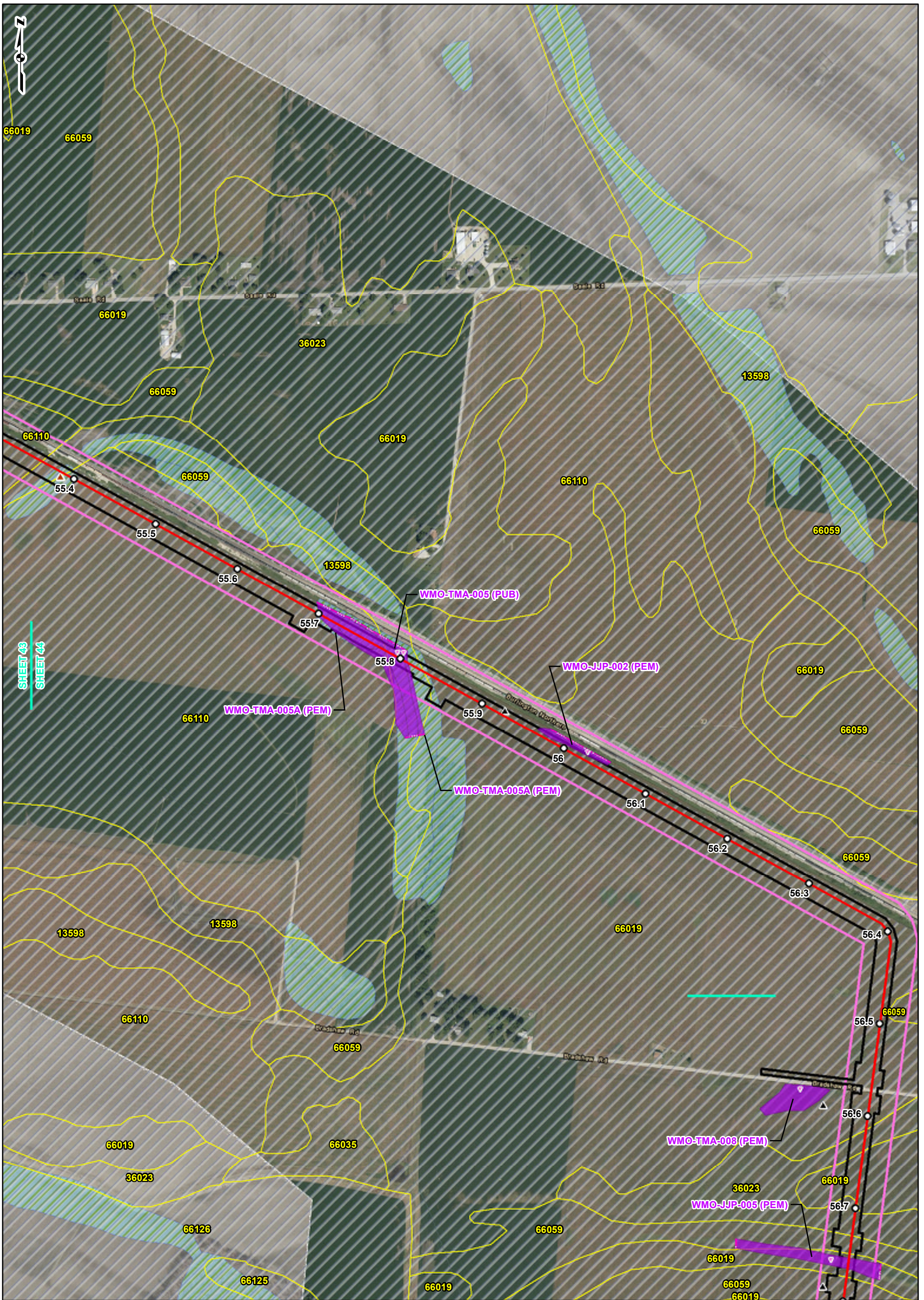
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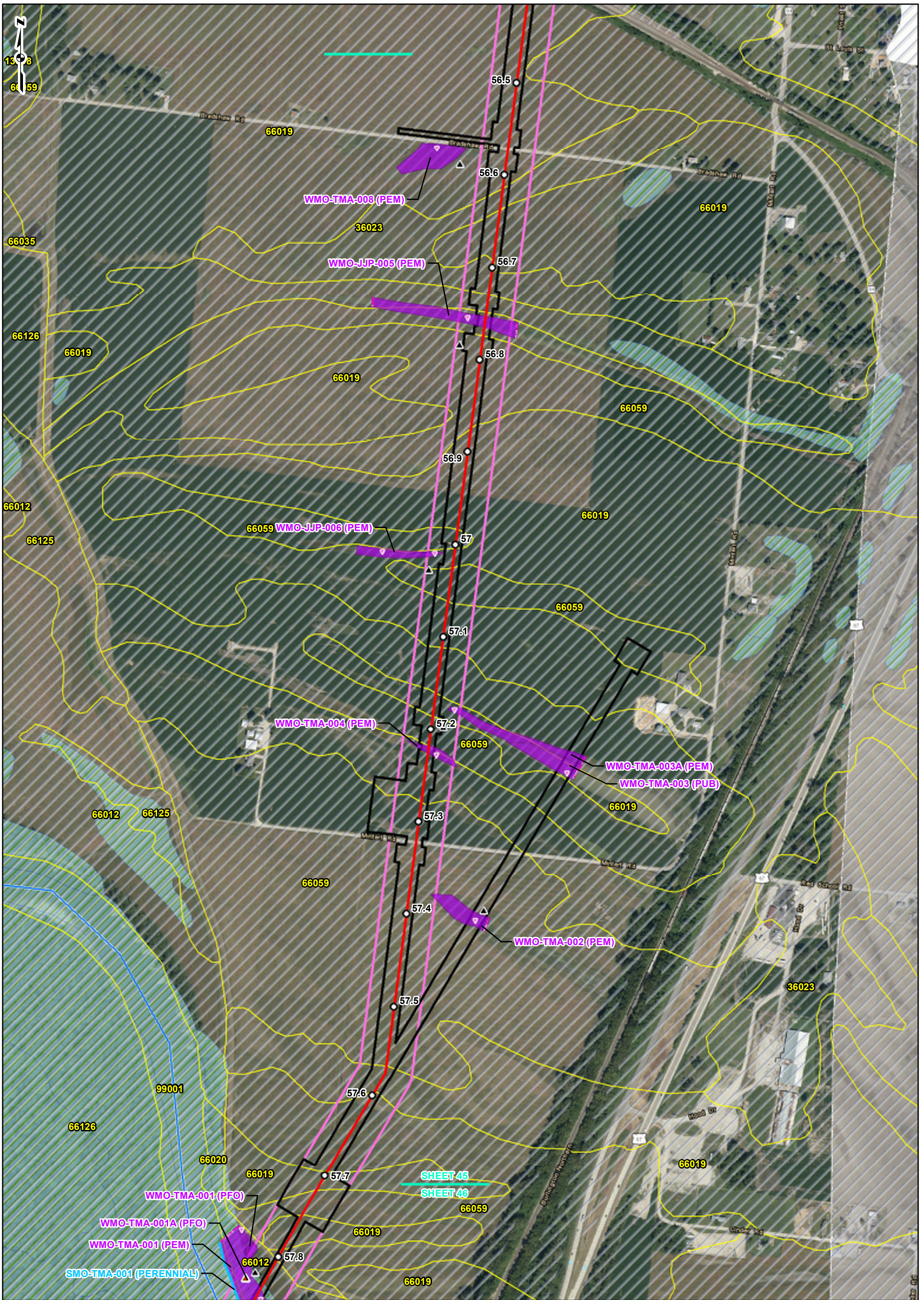
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| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | WETLAND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | POND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 44 OF 51**

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**SPIRE STL
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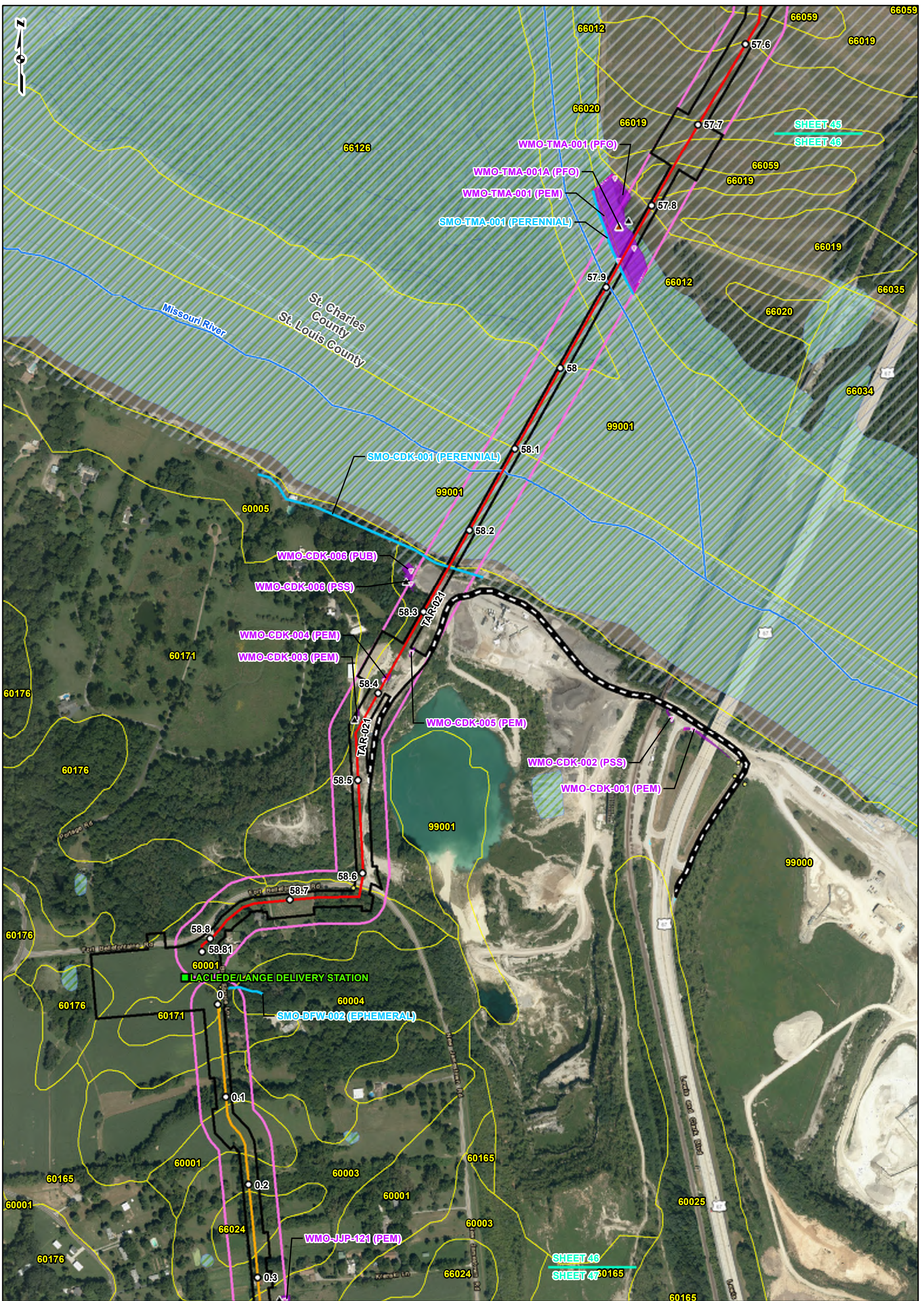
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| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | POND | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | WETLAND OPEN END | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 45 OF 51

SPIRE STL PIPELINE PROJECT

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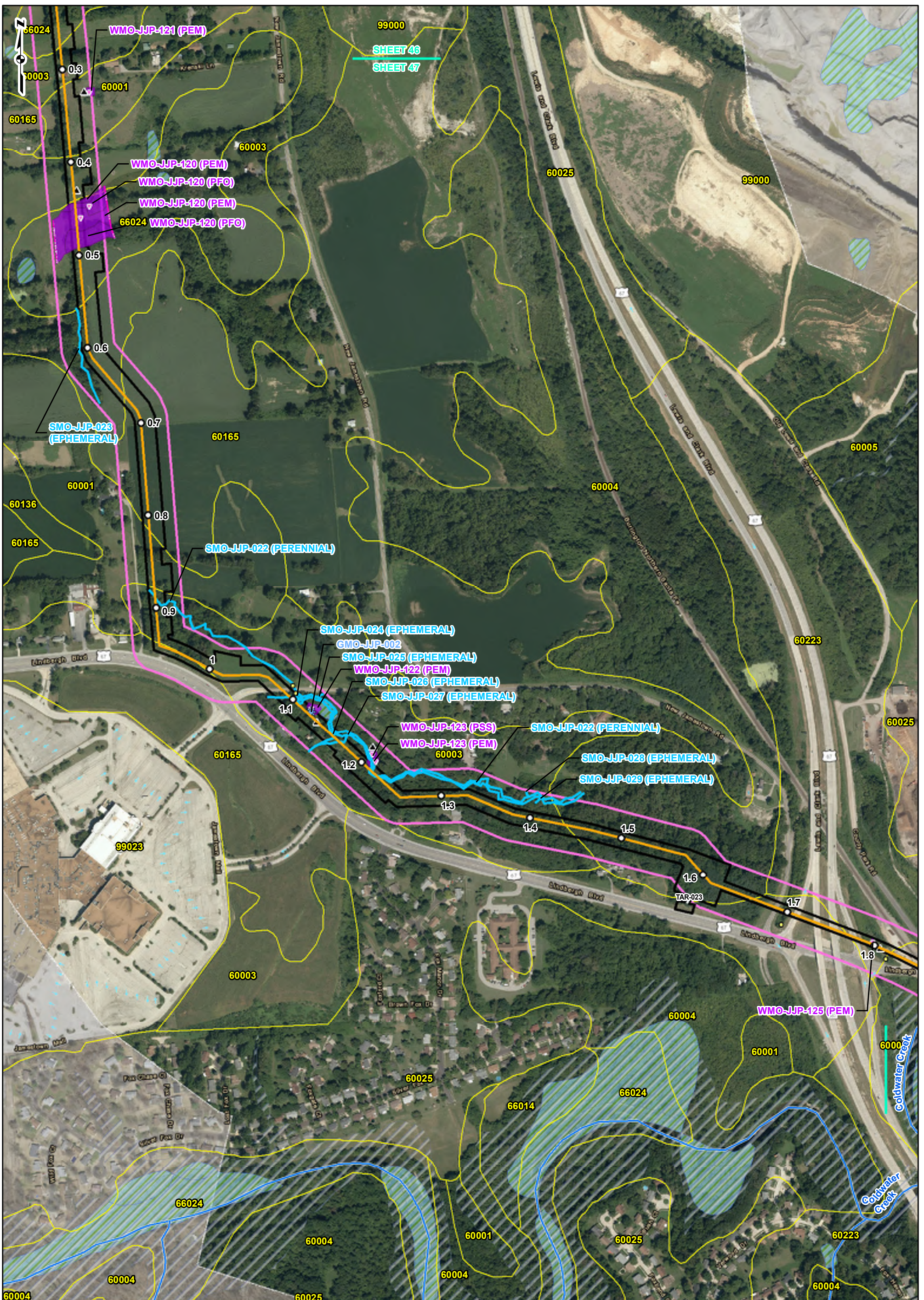
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 ILLINOIS (2015). FEDERAL
 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | |
|--------|----------------------|--|------------------------|
| | FACILITY | | 24-INCH PIPELINE |
| | MILEPOST | | NORTH COUNTY EXTENSION |
| | CULVERT | | STREAM |
| | GROUNDWATER SEEP | | NHD STREAM |
| | UPLAND LOCATION | | POND OPEN END |
| | WETLAND DATA POINT | | WETLAND OPEN END |
| | SOIL TEST PIT | | POND |
| | ACCESS ROAD | | WETLAND |
| | NWI WETLAND | | NWI WATERBODY |
| | NWI WATERBODY | | LIMIT OF DISTURBANCE |
| | LIMIT OF DISTURBANCE | | 300-FOOT CORRIDOR |
| | 300-FOOT CORRIDOR | | COUNTY BOUNDARY |
| | COUNTY BOUNDARY | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 46 OF 51

SPIRE STL PIPELINE PROJECT

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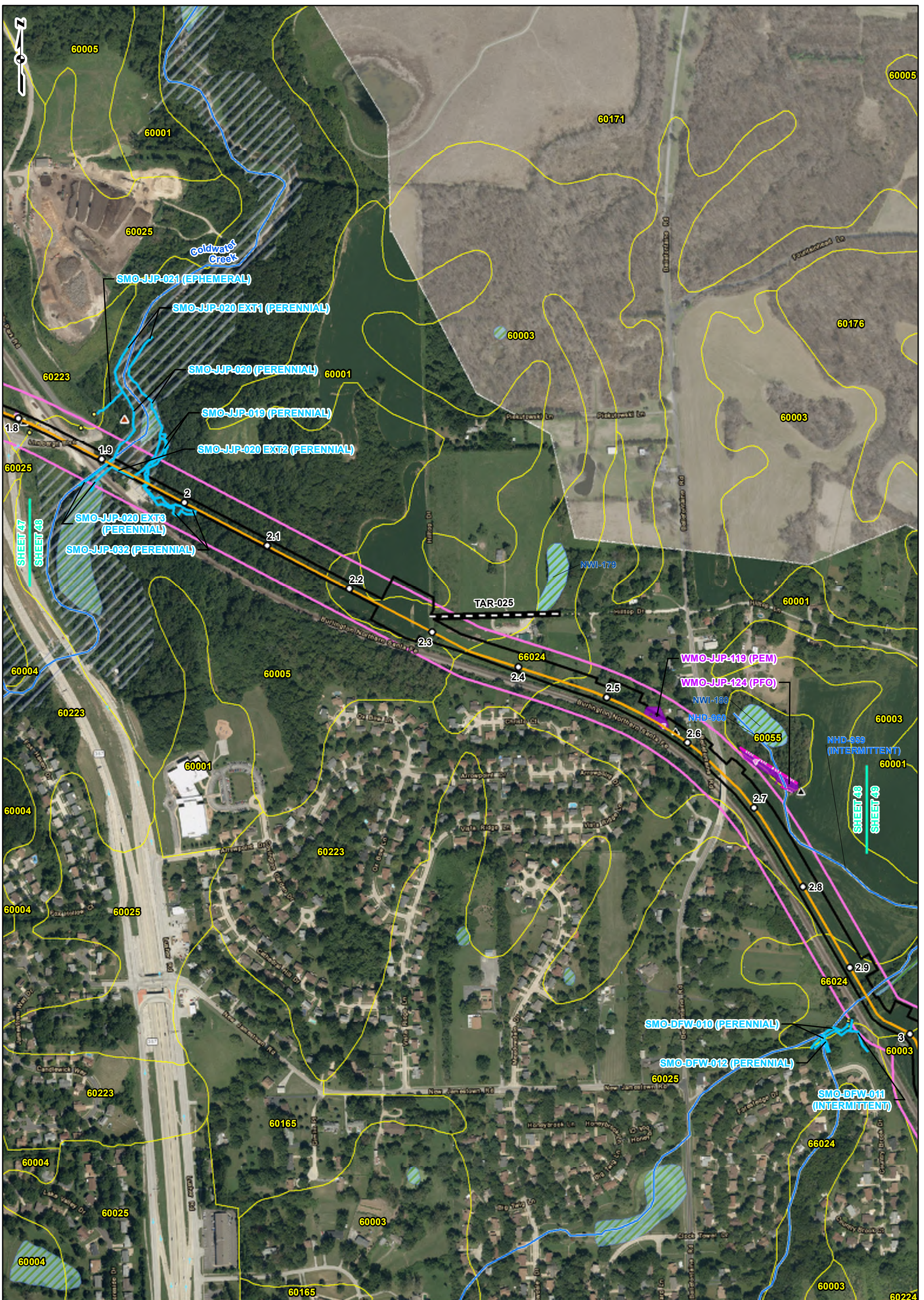
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 FLOOD HAZARD LAYER FOR
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 EMERGENCY MANAGEMENT
 AGENCY (FEMA).

| LEGEND | | | | | |
|--------|--------------------|--|---------------------------|--|----------------------|
| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | LIMIT OF DISTURBANCE |
| | UPLAND LOCATION | | POND OPEN END | | 300-FOOT CORRIDOR |
| | WETLAND DATA POINT | | WETLAND OPEN END | | COUNTY BOUNDARY |
| | SOIL TEST PIT | | POND | | STATE BOUNDARY |
| | ACCESS ROAD | | WETLAND | | |

RESOURCE LOCATION AND SOILS MAP SHEET 47 OF 51

**SPIRE STL
PIPELINE
PROJECT**

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| DRAWN BY: PMH | DATE: 4/20/2017 |
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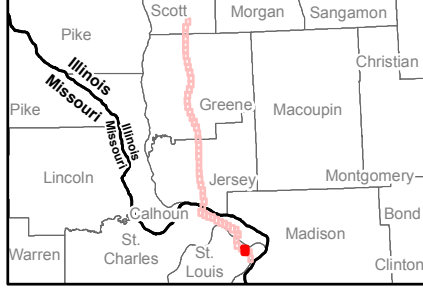
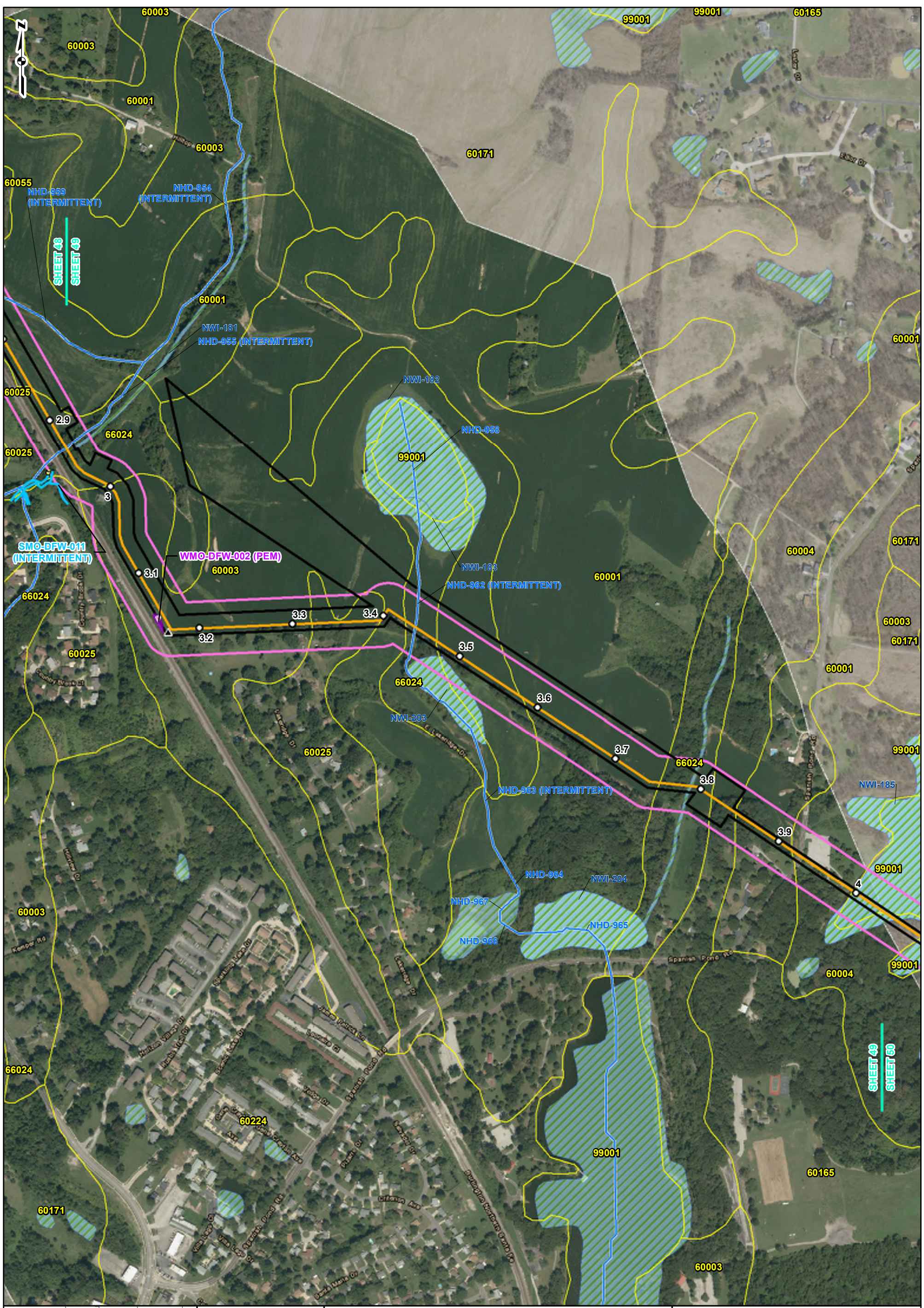
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| LEGEND | | | |
|---------------------------------------|--------------------|--|------------------------|
| ■ | FACILITY | — | 24-INCH PIPELINE |
| ○ | MILEPOST | — | NORTH COUNTY EXTENSION |
| ● | CULVERT | — | STREAM |
| * | GROUNDWATER SEEP | — | NHD STREAM |
| ▲ | UPLAND LOCATION | — | POND OPEN END |
| ▼ | WETLAND DATA POINT | — | WETLAND OPEN END |
| ▲ | SOIL TEST PIT | ■ | POND |
| — | ACCESS ROAD | ■ | WETLAND |
| ■ | NWI WETLAND | ■ | NWI WATERBODY |
| ■ | NWI WATERBODY | ■ | 100-YEAR FLOODPLAIN |
| ■ | SOIL TYPE BOUNDARY | — | LIMIT OF DISTURBANCE |
| — | 300-FOOT CORRIDOR | — | COUNTY BOUNDARY |
| — | STATE BOUNDARY | | |

RESOURCE LOCATION AND SOILS MAP SHEET 48 OF 51

SPIRE STL PIPELINE PROJECT

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| DRAWN BY: PMH | DATE: 4/20/2017 |
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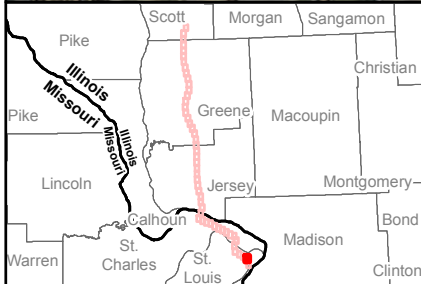
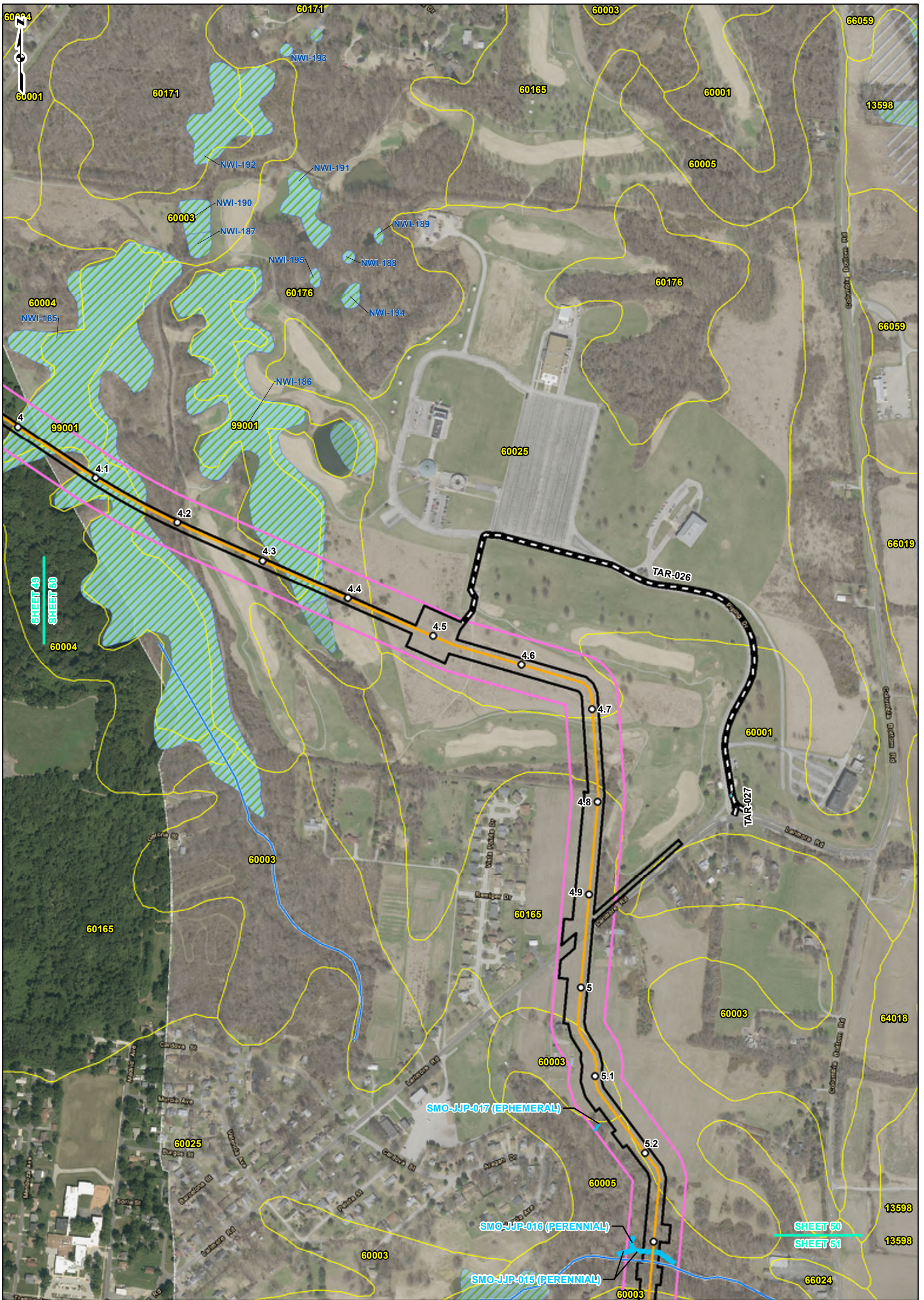
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| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | POND | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | WETLAND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND OPEN END | | STATE BOUNDARY |
| | | | | | |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 49 OF 51**

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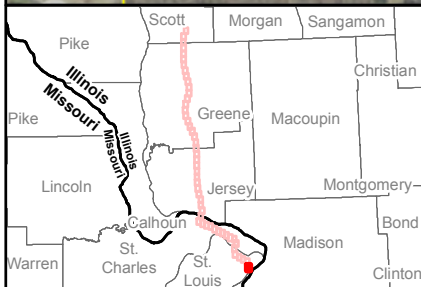
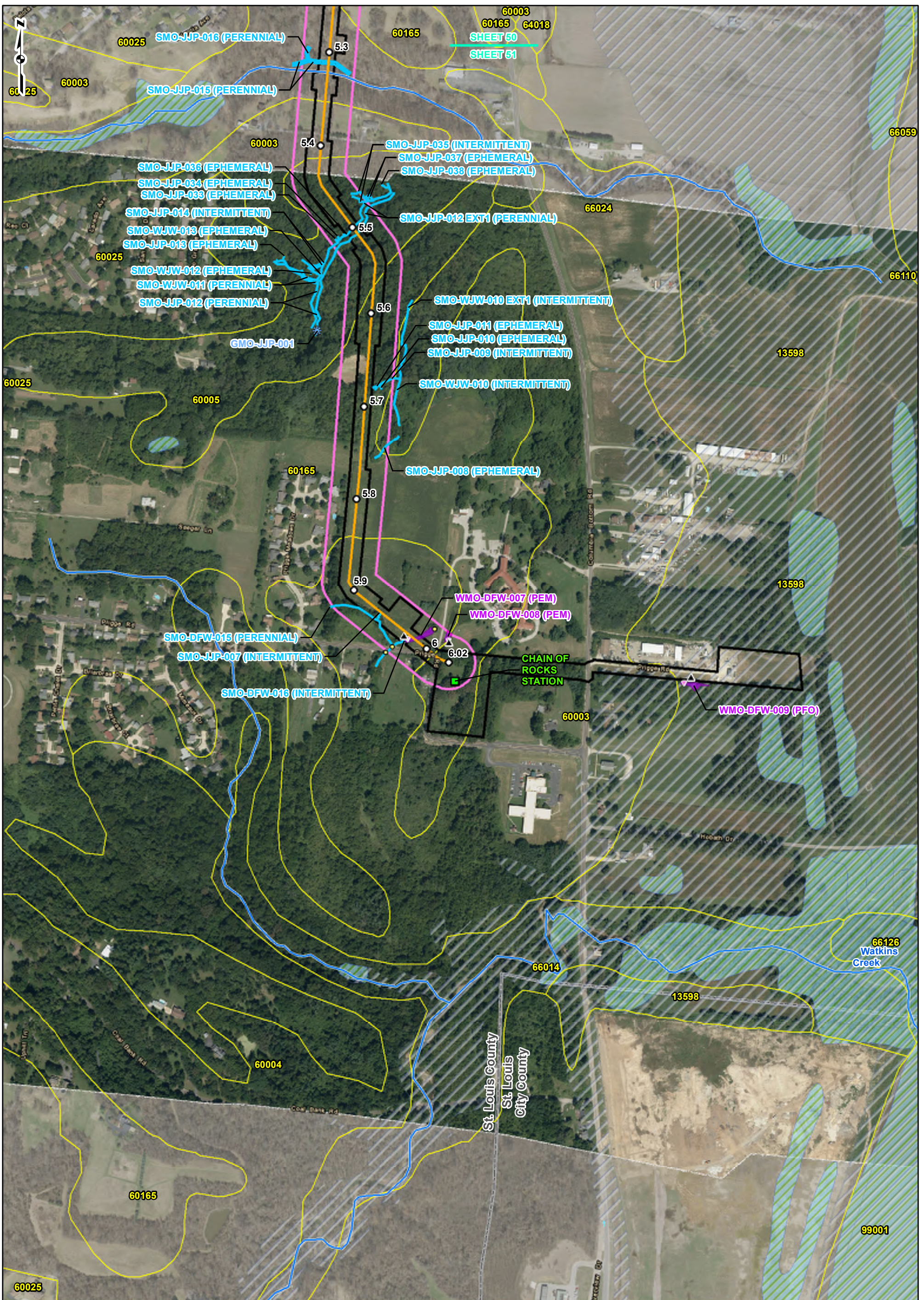
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| LEGEND | | | | | |
|--------|--------------------|--|---------------------------|--|----------------------|
| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | WETLAND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | POND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

**RESOURCE LOCATION
AND SOILS MAP
SHEET 50 OF 51**

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STL
PIPELINE
PROJECT

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| LEGEND | | | | | |
|--------|--------------------|--|---------------------------|--|----------------------|
| | FACILITY | | 24-INCH PIPELINE | | NWI WETLAND |
| | MILEPOST | | NORTH COUNTY EXTENSION | | NWI WATERBODY |
| | CULVERT | | STREAM | | 100-YEAR FLOODPLAIN |
| | GROUNDWATER SEEP | | NHD STREAM | | SOIL TYPE BOUNDARY |
| | UPLAND LOCATION | | POND OPEN END | | LIMIT OF DISTURBANCE |
| | WETLAND DATA POINT | | WETLAND OPEN END | | 300-FOOT CORRIDOR |
| | SOIL TEST PIT | | POND | | COUNTY BOUNDARY |
| | ACCESS ROAD | | WETLAND | | STATE BOUNDARY |

RESOURCE LOCATION AND SOILS MAP SHEET 51 OF 51

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH
CHECKED: EFJ

DATE: 4/20/2017
APPROVED: TCW