



Illinois Department of Natural Resources

telephone log



gai consultants

Date: 4/12/2017

Project / Admin. No.: E160438.00

Call From: Lori Ferry, Rick Hall, Jason Duffey (GAI)

Company: GAI Consultants

Phone No.:

Call To: Jenny Skufca

Company: Illinois Department of Natural Resources

Phone No.: 217-557-8243

Subject: Spire STL Pipeline Conservation Plan

cc:

Summary of Discussion, Decisions, and Commitments:

GAI requested the call as an informal discussion on avoidance, mitigation, and monitoring measures to include in the Conservation Plan ("Plan") for the northern long-eared bat and timber rattlesnake.

Timber rattlesnake

- The Illinois Endangered Species Protection Board ("ESPB") is reviewing the listing due to development on south-facing bluffs, and favors habitat restoration such as removal of shade vegetation.
- Spire proposes to create habitat, through the placement of excavated rock along the edges of the ROW or adjacent to edges. IDNR indicated that this would be considered, provided a monitoring component was included. IDNR approves of monitoring being conducted by colleges or universities.
- Spire would involve Principia in the mitigation and monitoring
- Principia population is the most studied in the state, so avoidance, mitigation, and monitoring should be effective and will be reviewed carefully prior to approval.

Northern Long-eared Bat

- Unless the species is determined to be prolific in the Project footprint, it is likely that the seasonal avoidance, as planned, will be sufficient to avoid take, and therefore, mitigation would not be required.
 - It should not be necessary to track northern long-eared bats unless it is determined that they are prolific in an area, in which case they should be tracked sufficient to determine impacts.
 - GAI provided an update on the permitting schedule including the potential need to clear trees after April 1.
-

Indiana Bat

- If Indiana bats are determined to be present, they will need to be included in the Plan.

General

- GAI provided an update indicating that access to conduct surveys on Principia will likely be granted.
 - IDNR indicated that their internal review of the “Ownership or Control” requirement of the ITA application process is ongoing and no updates were available.
-

Ali Trunzo

From: Lori Ferry
Sent: Thursday, April 06, 2017 4:18 PM
To: Ali Trunzo
Subject: FW: Spire HCP technical assistance call request

From: Jason Duffey
Sent: Thursday, April 06, 2017 3:09 PM
To: Jenny.Skufca@Illinois.gov
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>; Adam Mann <A.Mann@gaiconsultants.com>
Subject: Spire HCP technical assistance call request

Hi Jenny,




I just left you a voice message requesting a brief call to discuss our development of a draft HCP for the Spire STL Pipeline project. As a follow up on previous discussions on the HCP, we would like to request guidance on developing mitigations and monitoring strategy for the timber rattlesnake and northern long-eared bat (if the latter is found to be present).

We are available at your earliest convenience, and currently have most afternoons available next week to schedule a call.

Thanks,

Jason A. Duffey
Senior Project Environmental Specialist

GAI Consultants
1830 Airport Exchange Blvd, Suite 220, Erlanger, KY 41018

T 859.647.6647 | D 859.692.4152 | M 937.554.8488 | gaiconsultants.com |     



GAI Consultants, Inc.-Chicago Office
2300 Cabot Drive, Suite 395
Lisle, Illinois 60532

T 630.605.5255

March 28, 2017

Mr. Keith Shank
Impact Assessment Section Manager
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62701

**Re: Supplemental Information (Docket No. CP17-40)
Spire STL Pipeline LLC
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois**

Dear Mr. Shank:

In June 2016, Spire Pipeline LLC ("Spire") initiated consultation with your office regarding their intent to construct, own, and operate the proposed Spire STL Pipeline Project ("Project") which consisted of approximately 59 miles of new, greenfield, 24-inch-diameter steel pipeline (referred to as the "24-inch pipeline"), originating at an interconnection with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois; extending down through Greene and Jersey counties in Illinois before crossing the Mississippi River and extending east into St. Charles County, Missouri, crossing the Missouri River and tying into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Line 880 consisted of approximately seven miles of existing 20-inch-diameter steel pipeline. As part of the proposed Project, Spire was planning on modifying Line 880 before placing it in interstate service. The Project also included the construction of minor aboveground metering and regulating ("M&R") stations. On January 26, 2017, Spire filed an application with the Federal Energy Regulatory Commission ("FERC") for a Certificate of Public Convenience and Necessity for the Project (Docket No. CP17-40-000).

On March 15, 2017, Spire filed a "Preliminary Notification of Preferred Route Change" with FERC, indicating that Spire no longer plans to modify the existing Line 880 as part of the Project. Instead, Spire intends to construct a new, greenfield, 24-inch pipeline (referred to as the "North County Extension") which will extend the 24-inch pipeline portion of the Project to a proposed interconnect with Enable Mississippi River Transmission ("Enable MRT"). Spire plans to file an amended application with the FERC in April 2017. GAI Consultants, Inc. ("GAI"), on behalf of Spire, is submitting supplemental information to assist with your review of the Project as amended. An updated description of the proposed Project facilities and location map (Figure 1) are provided herein.

Amended Project Description

The amended Project as proposed will consist of approximately 65 miles of new, greenfield, 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the REX pipeline in Scott County, Illinois, and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with LGC. The second segment of new greenfield pipeline, North County Extension, will consist of a 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC interconnect through the northern portion of St. Louis County and terminate at a new interconnect

with Enable MRT and LGC. The total length of the Project pipeline will be approximately 65 miles. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day ("Dth/d"). No compression will be required. The Project also includes the construction of three new M&R stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri.

The acquisition and modifications to LGC's existing Line 880 is no longer proposed as part of the Project.

Spire anticipates a typical 90-foot temporary construction right-of-way width, and a 50-foot permanent easement. The construction right-of-way is anticipated to be reduced to 75-feet at streams and wetlands. An additional 25 feet of temporary work space will be required through agricultural areas, and additional temporary work space will be required to facilitate construction in certain areas, such as crossings of roads, railroads, streams, and wetlands.

The updated Project schedule includes the following target dates:

- July 22, 2016 - National Environmental Policy Act ("NEPA") process began (initiation of FERC Pre-Filing process);
- August 2016 through March 2017 (Anticipated) - Biological and Cultural Resource Surveys;
- January 26, 2017 - Application Filed with FERC;
- April 2017 (Anticipated) – File Amended Application with FERC;
- September 2017 (Anticipated) - Draft NEPA Document Published; and
- December 2017 (Anticipated) - FERC Decision on Application.

Construction is anticipated to commence in January 2018.

Illinois

Approximately 45.7 miles of the 24-inch pipeline will be located in Illinois and traverse Scott, Greene, and Jersey Counties. One metering and regulating station is proposed in Scott County, Illinois, at the interconnection location with the REX pipeline.

The Project facilities are shown on the attached United States Geological Survey ("USGS") Topographic Map (Figure 1). In addition, Spire has proposed the use/development of new and/or existing access roads throughout the Project area. Temporary staging areas will also be utilized to accommodate equipment staging and stockpiling of materials along the proposed corridor during construction.

Site Description

Illinois

The Illinois portion of the Project is located in Scott, Greene, and Jersey Counties, Illinois, and is depicted on the attached portions of the Alsey (1983), Roodhouse West (1983), Carrolton (1985), Boyer Creek (1983), Otterville (1983), Elsay (1979), and Grafton (1995), Illinois, United States Geological Survey (USGS) 7.5-minute series topographic maps (Figure 1).

The pipeline is greenfield and crosses a primarily agricultural landscape with some areas of forest. The Project is located within the North Little Sandy Creek [USGS Hydrologic Unit Code (HUC) #071300110503], Little Sandy Creek (HUC #071300110504), Hurricane Creek (HUC #071300110806), Whitaker Creek-Apple Creek (HUC #071300110702), Coates Creek-Apple Creek (HUC #071300110703), Link Branch-Lower Macoupin Creek (HUC #071300120602), Wines Branch-Lower Macoupin Creek (HUC #071300120603), De Arcy Branch-Phils Creek (HUC #071300120502), Sandy Creek-Otter Creek (HUC #071300110901), Shilow Hollow-South Fork Otter Creek

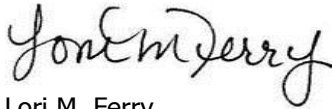
(HUC #071300110902), Lower Piasa Creek (HUC #071100090204), and Marais Temps Clair-Mississippi River (HUC #071100090401) watersheds.

Spire is currently coordinating with your office regarding this Project. On behalf of Spire we would like to take this opportunity to invite the Illinois Department of Natural Resources to provide any additional comments regarding the Project as it will be amended. We appreciate your continued involvement and cooperation in the review of this important Project.

If you have any questions or would like additional information, please feel free to contact me at 630.605.5255, or by e-mail at L.Ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

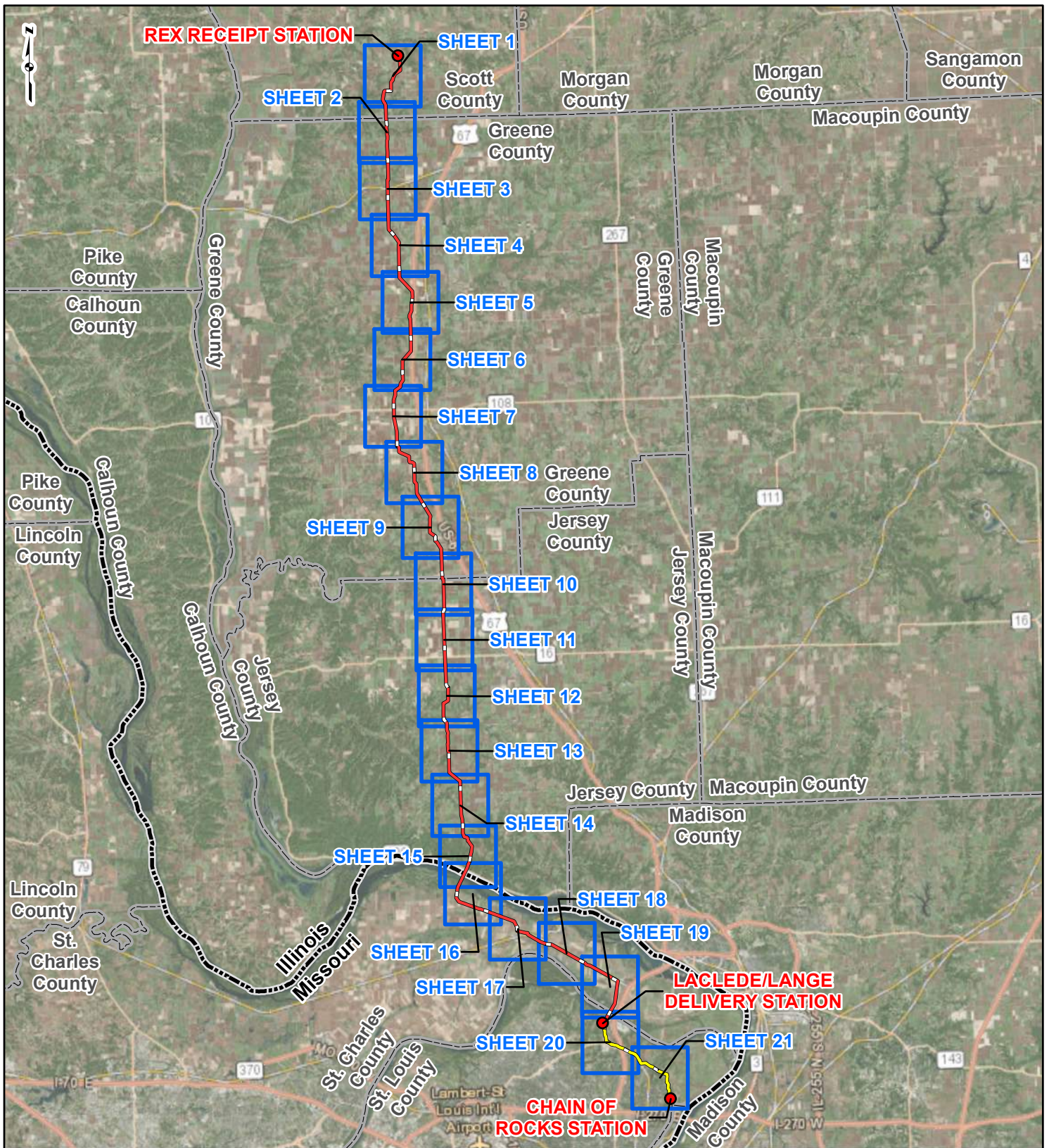
A handwritten signature in black ink that reads "Lori M. Ferry". The signature is written in a cursive, flowing style.

Lori M. Ferry
Environmental Manager

Attachment: United States Geological Survey (USGS) Topographic Map (Figure 1)

cc: Ms. Jenny Skufca, Illinois Department of Natural Resources

ATTACHMENT
USGS TOPOGRAPHIC MAP (FIGURE 1)



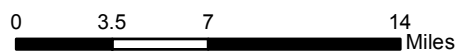
PROJECT LOCATION



SCOTT, GREENE AND JERSEY COUNTIES, ILLINOIS AND ST. CHARLES AND ST. LOUIS COUNTIES, MISSOURI

LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE
- NORTH COUNTY EXTENSION
- SHEET INDEX
- COUNTY BOUNDARY
- STATE BOUNDARY



**FIGURE 1
LOCATION MAP
SHEET INDEX**

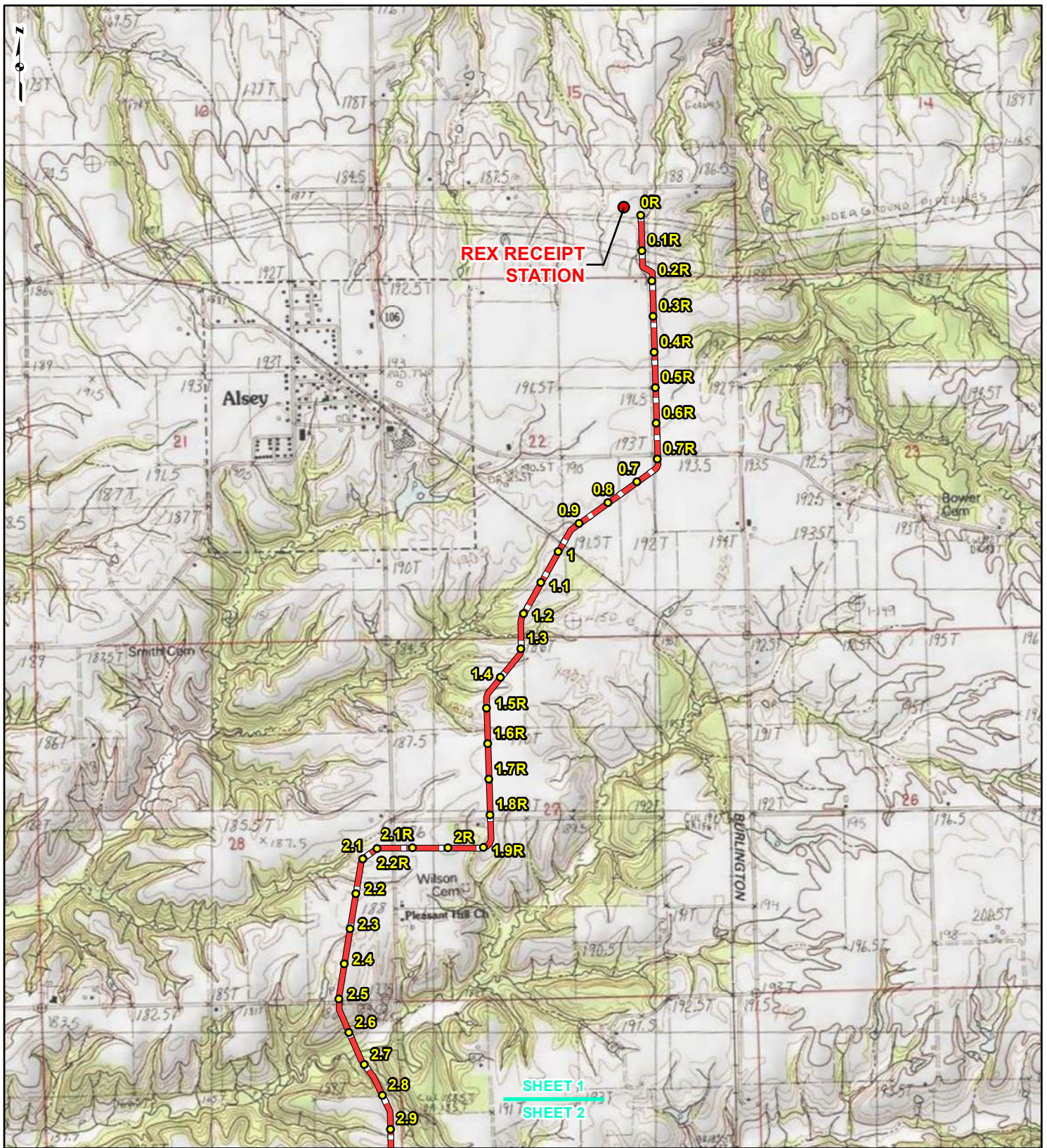
**SPIRE STL
PIPELINE
PROJECT**



DRAWN BY: PMH
CHECKED: SWW

DATE: 3/28/2017
APPROVED: LMF

REFERENCE: ESRI WORLD IMAGERY AND TRANSPORTATION, NAIP, USDA FSA, 2015, ACCESSED 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE MILEPOST	— EXTENSION
○ NORTH COUNTY	□ COUNTY BOUNDARY
● EXTENSION MILEPOST	□ STATE BOUNDARY

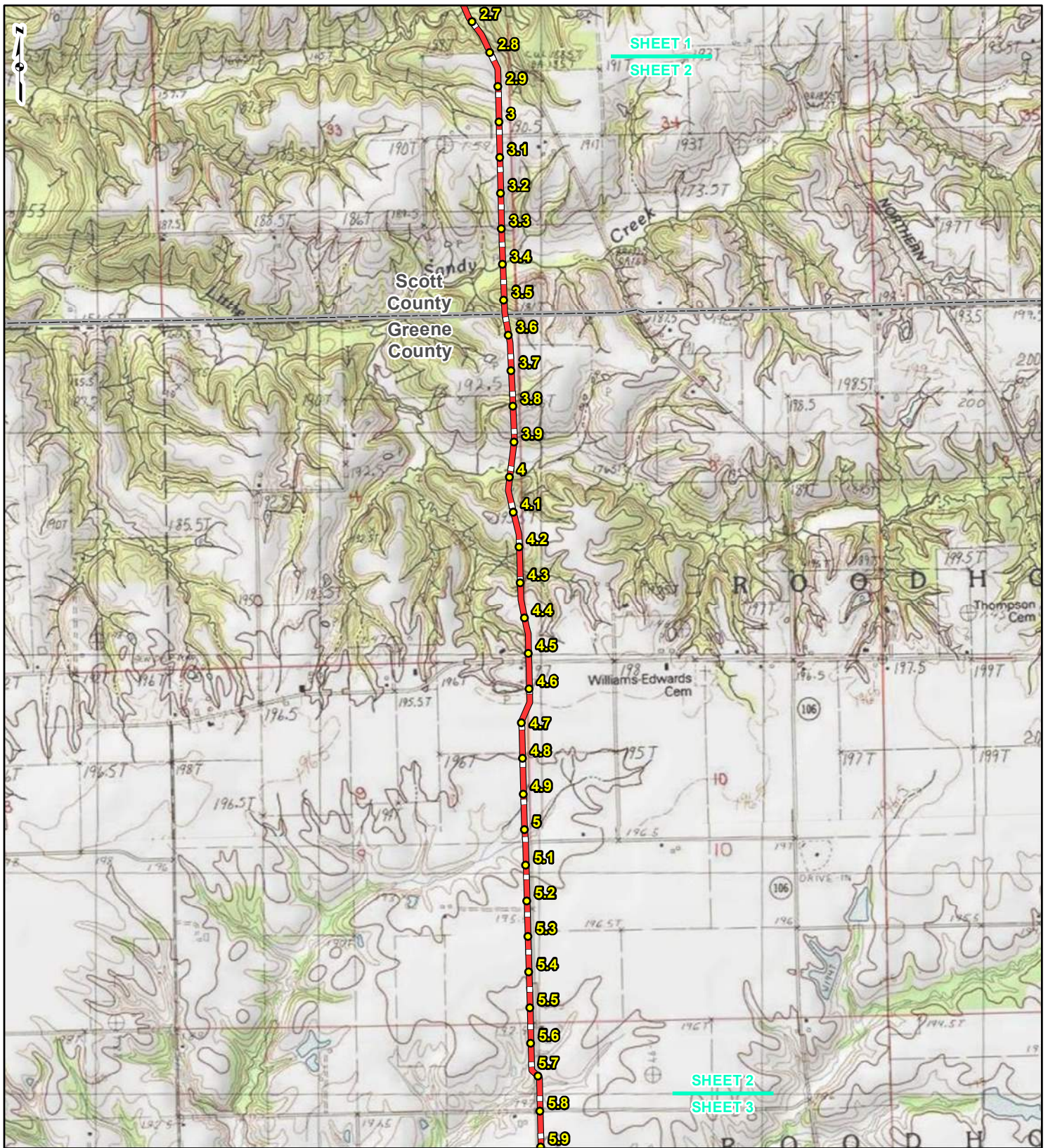
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**FIGURE 1
LOCATION MAP
SHEET 1 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

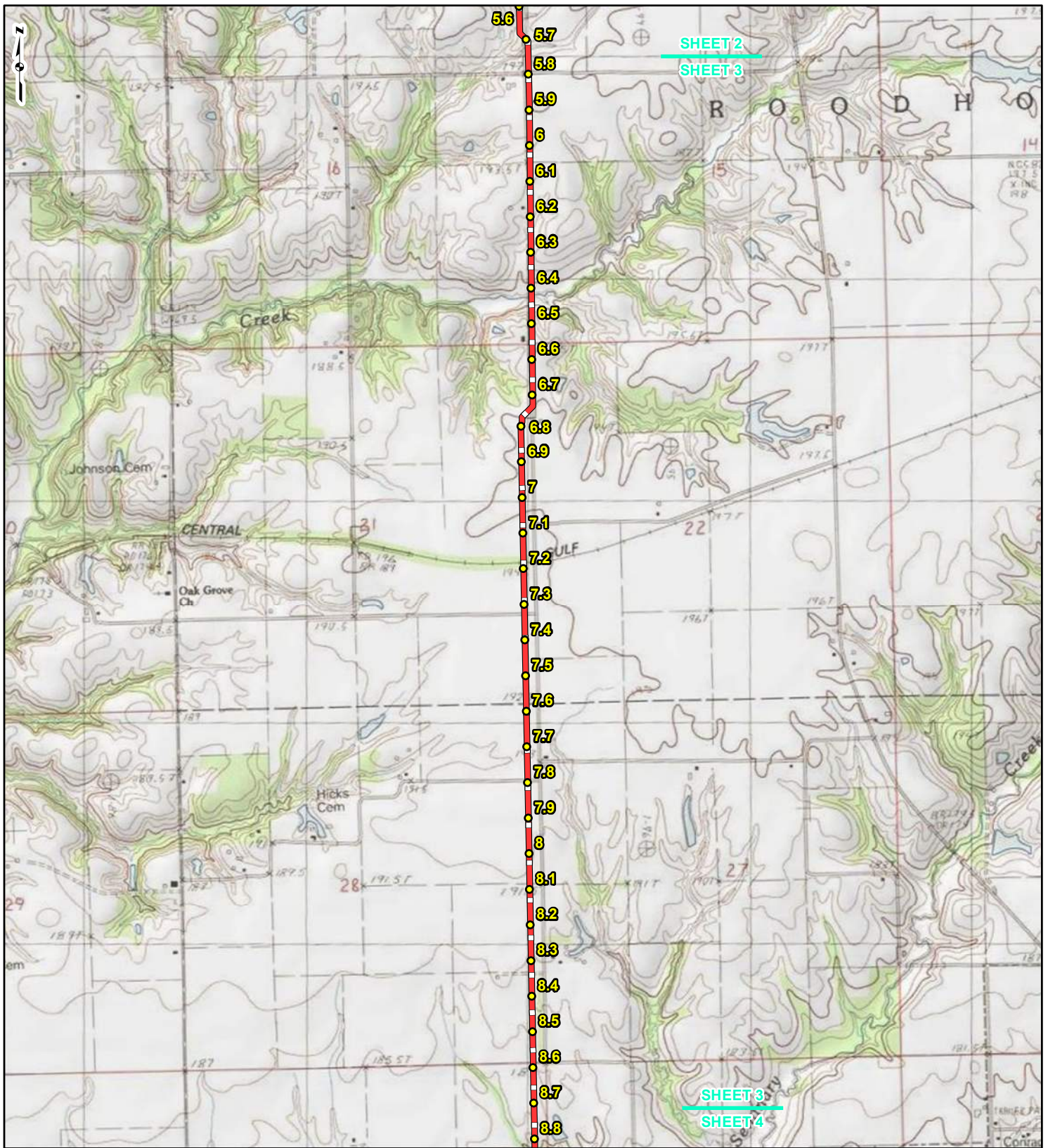
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**FIGURE 1
LOCATION MAP
SHEET 2 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

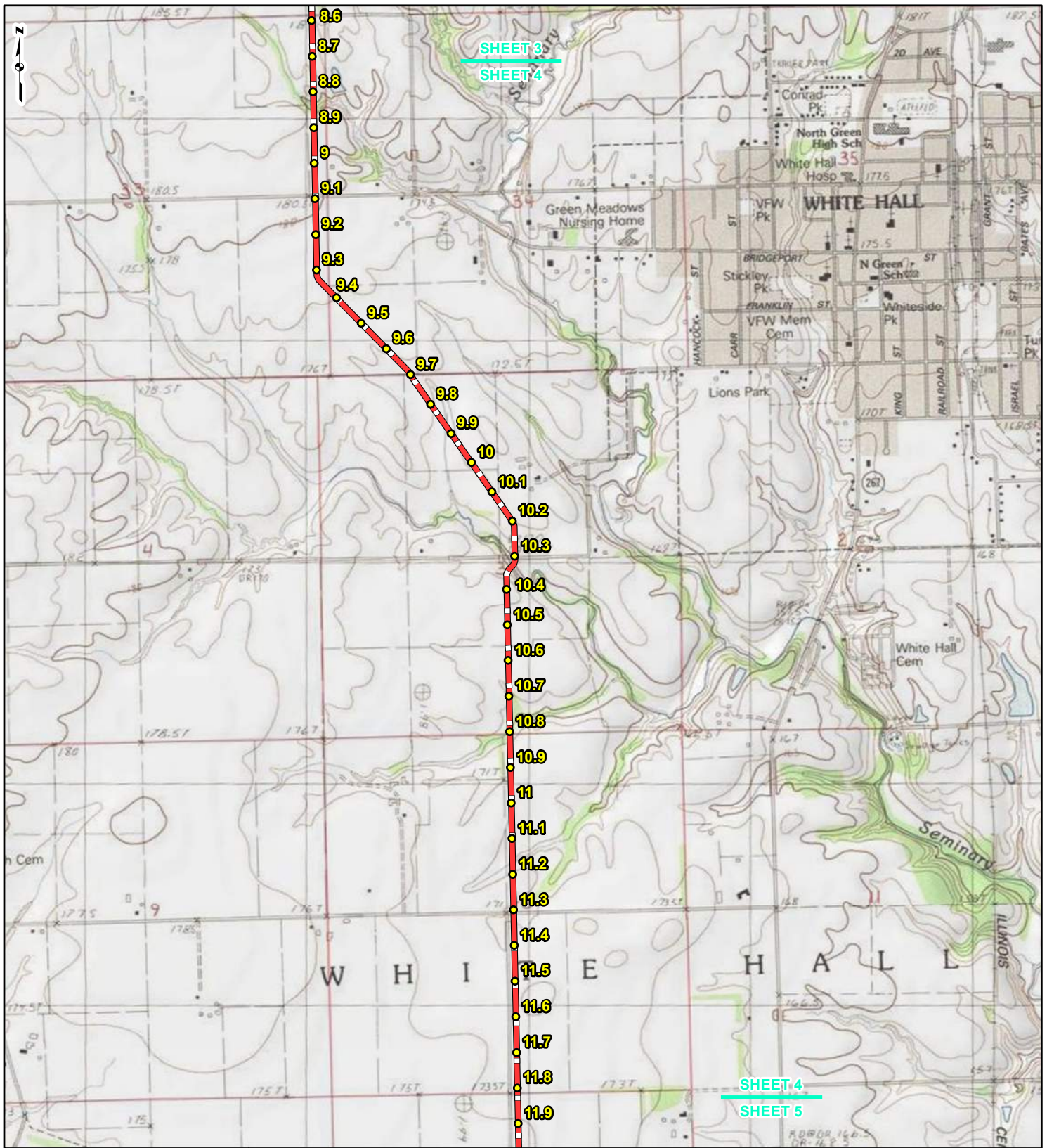
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FIGURE 1
LOCATION MAP
SHEET 3 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1995), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
● NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

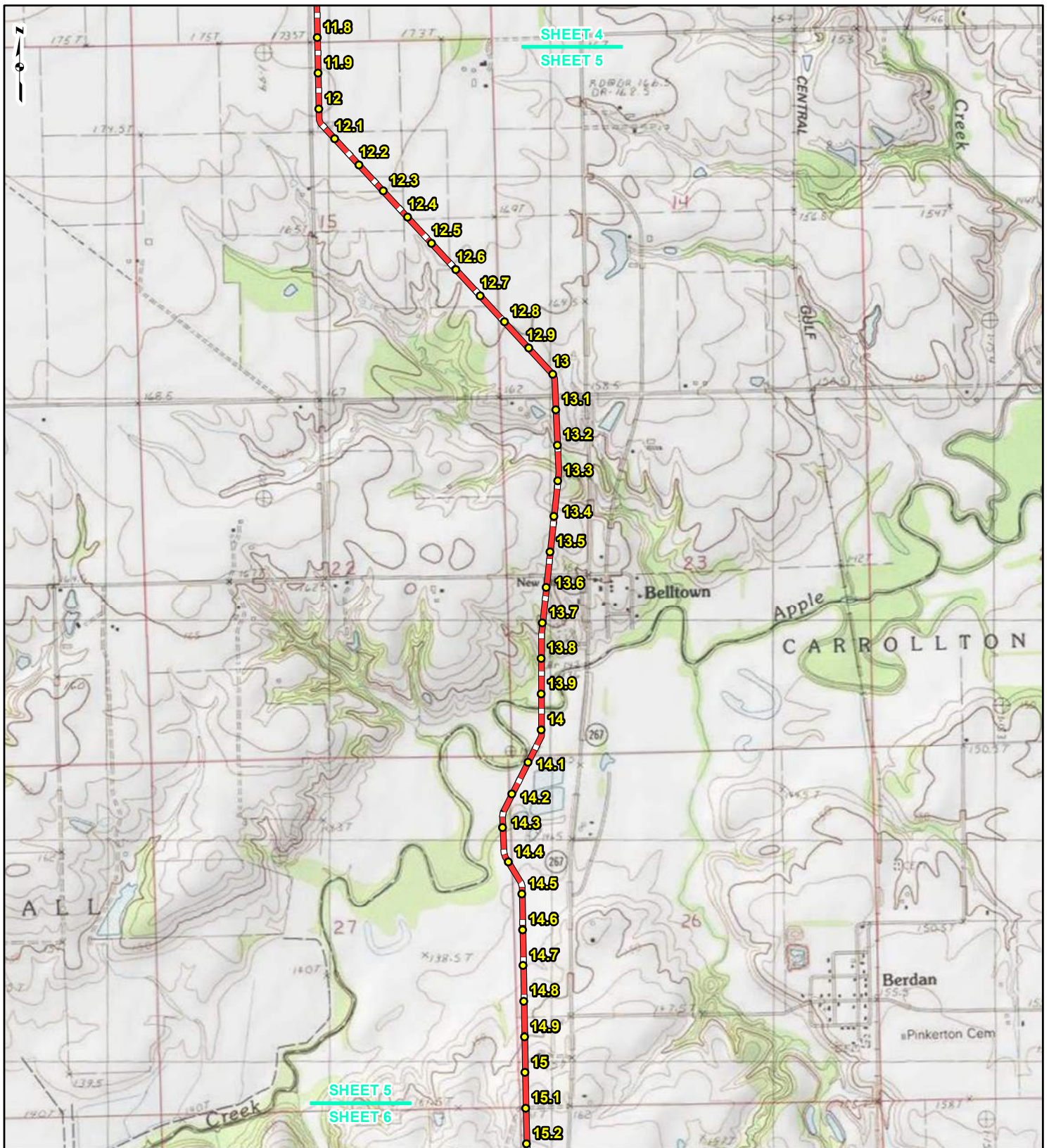
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FIGURE 1
LOCATION MAP
SHEET 4 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

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), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

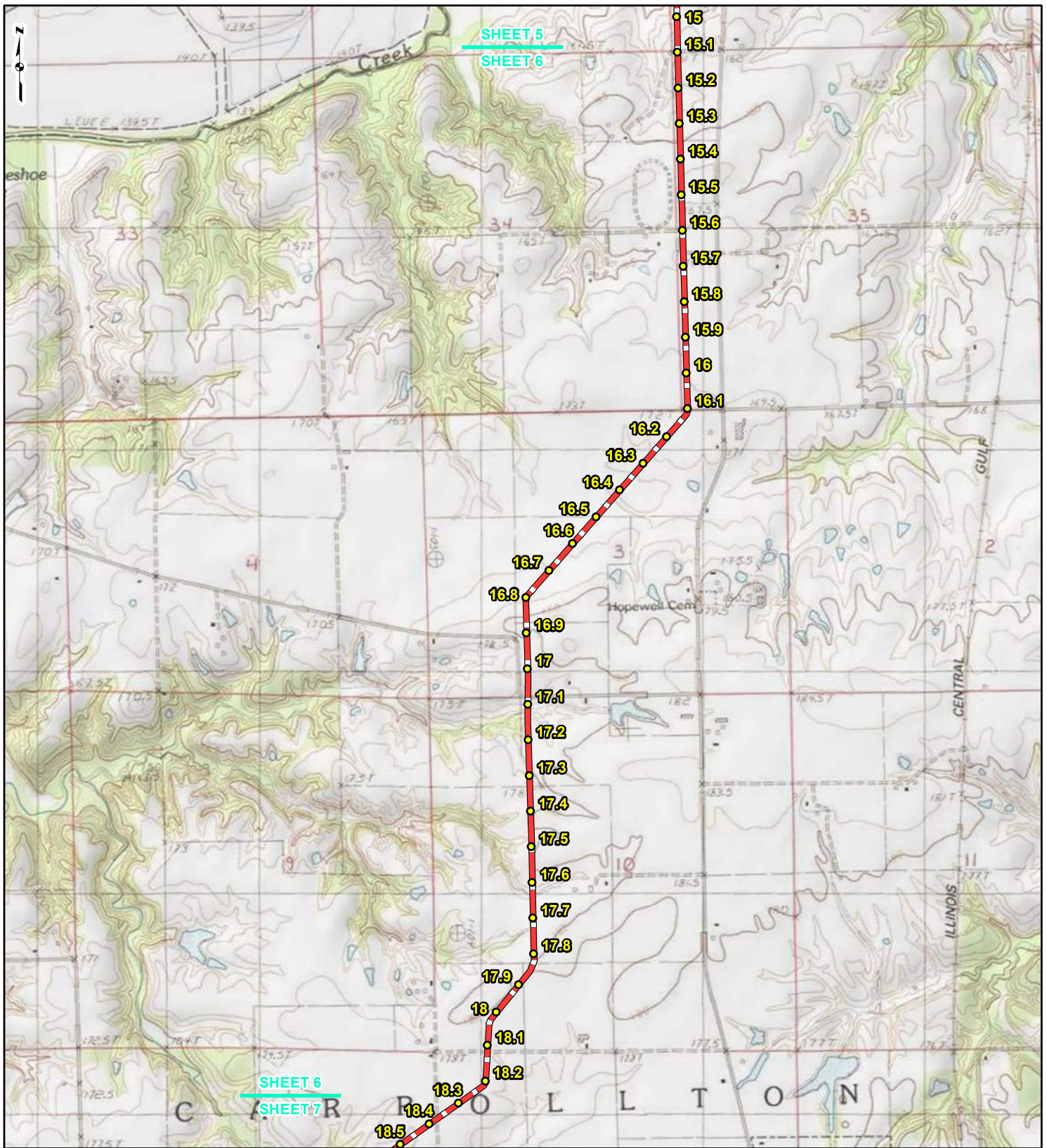
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**FIGURE 1
LOCATION MAP
SHEET 5 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
— NORTH COUNTY EXTENSION	▭ COUNTY BOUNDARY
● MILEPOST	▭ STATE BOUNDARY

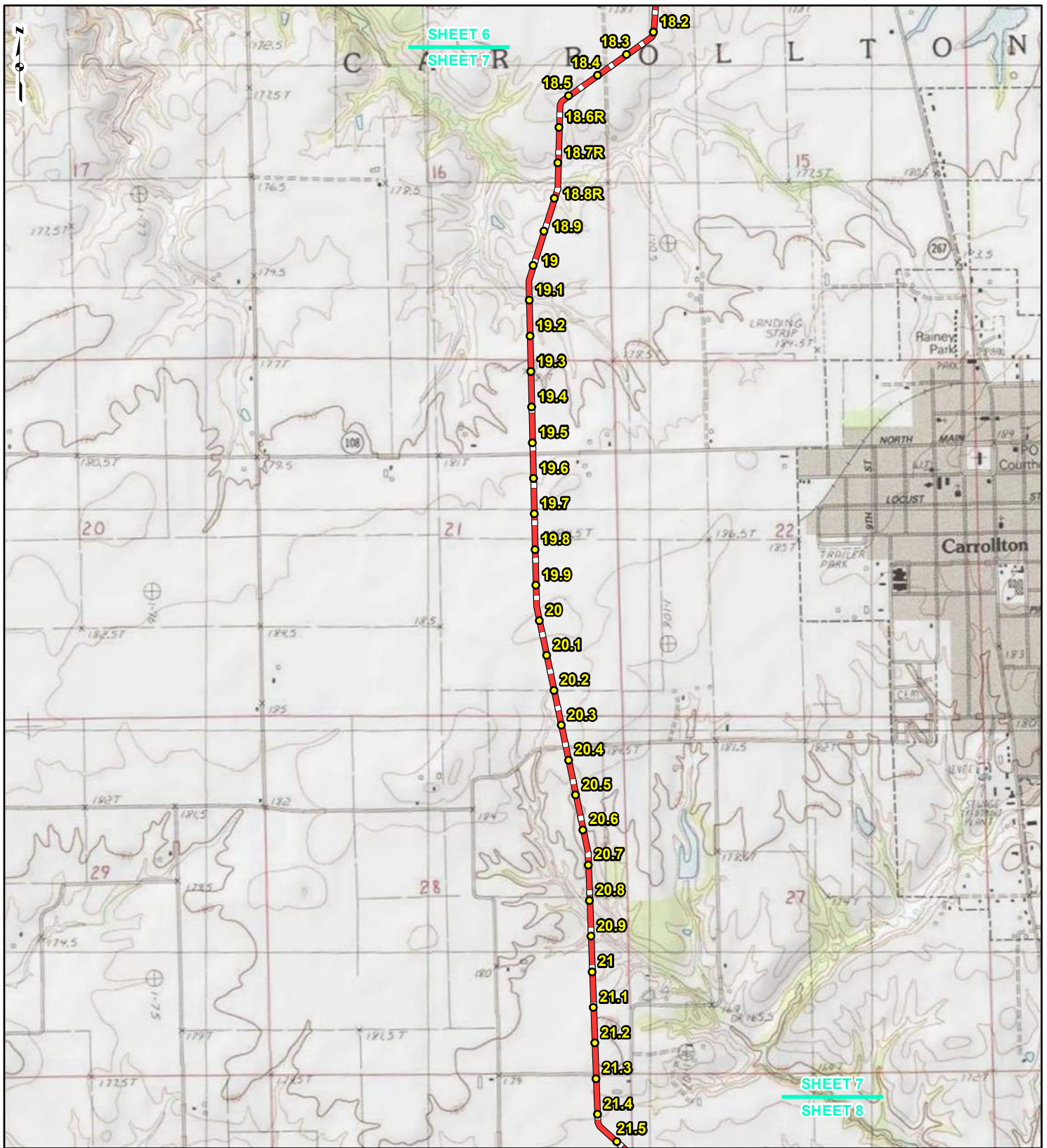
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**FIGURE 1
LOCATION MAP
SHEET 6 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

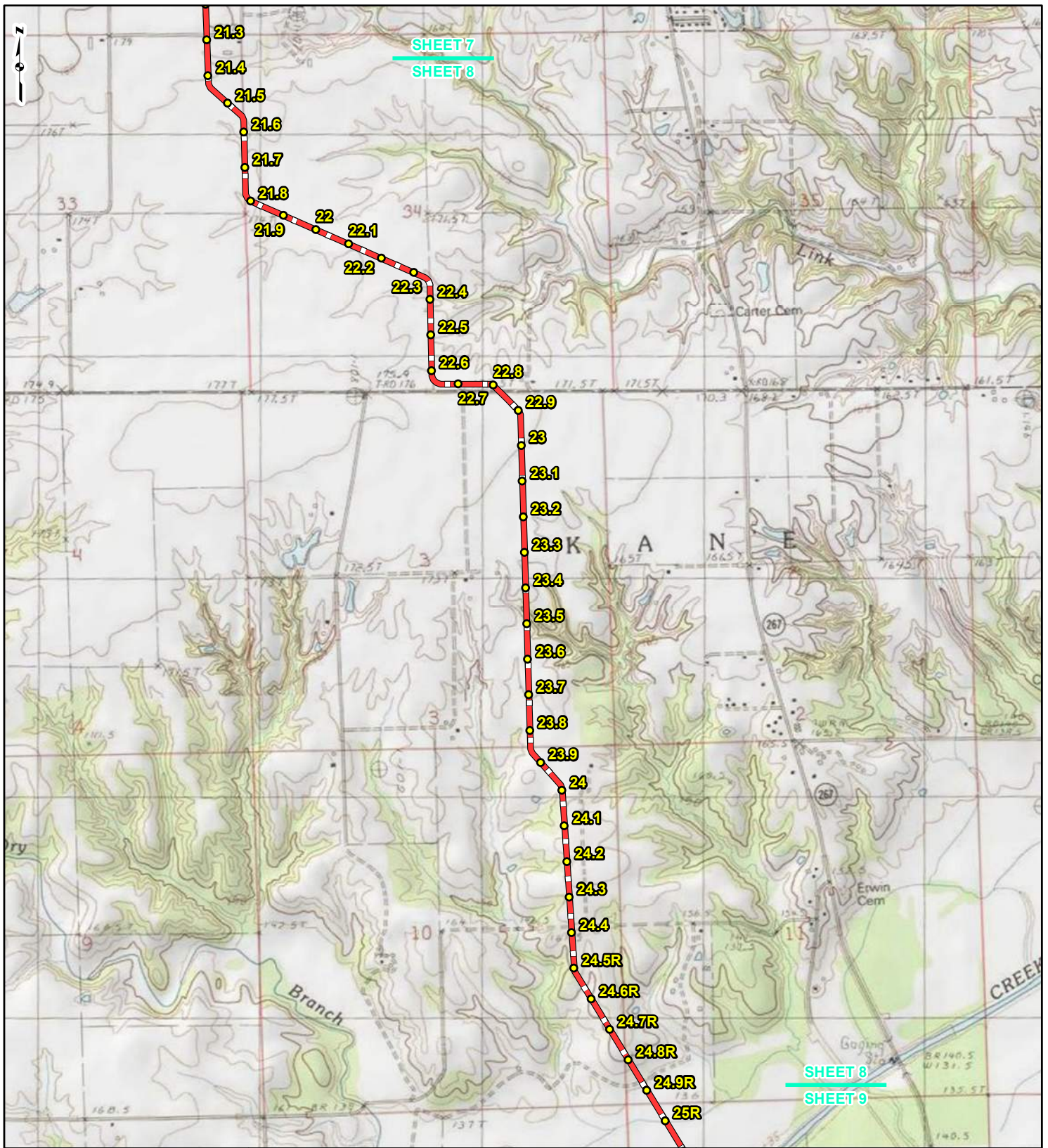
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**FIGURE 1
LOCATION MAP
SHEET 7 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

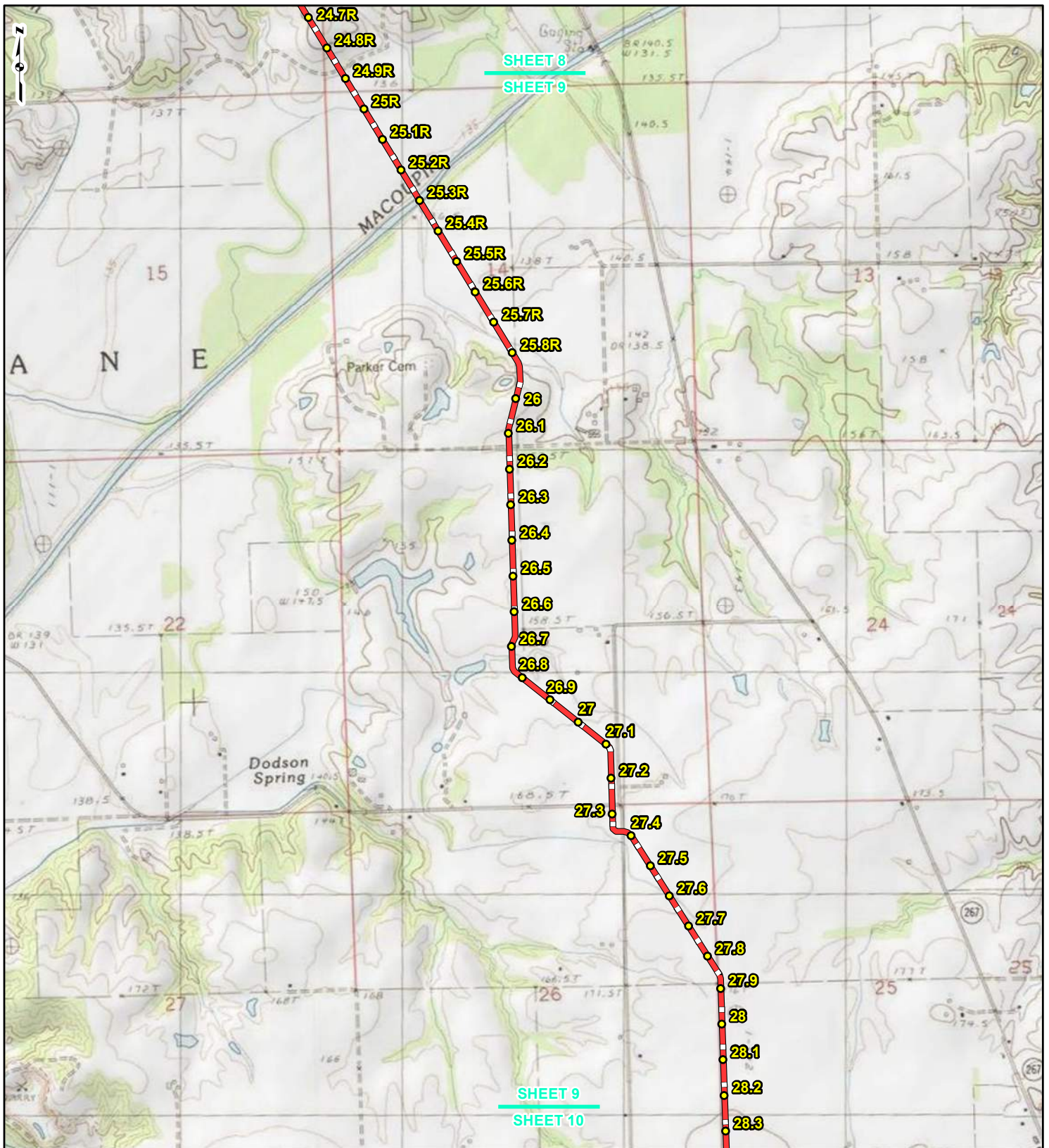
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**FIGURE 1
LOCATION MAP
SHEET 8 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

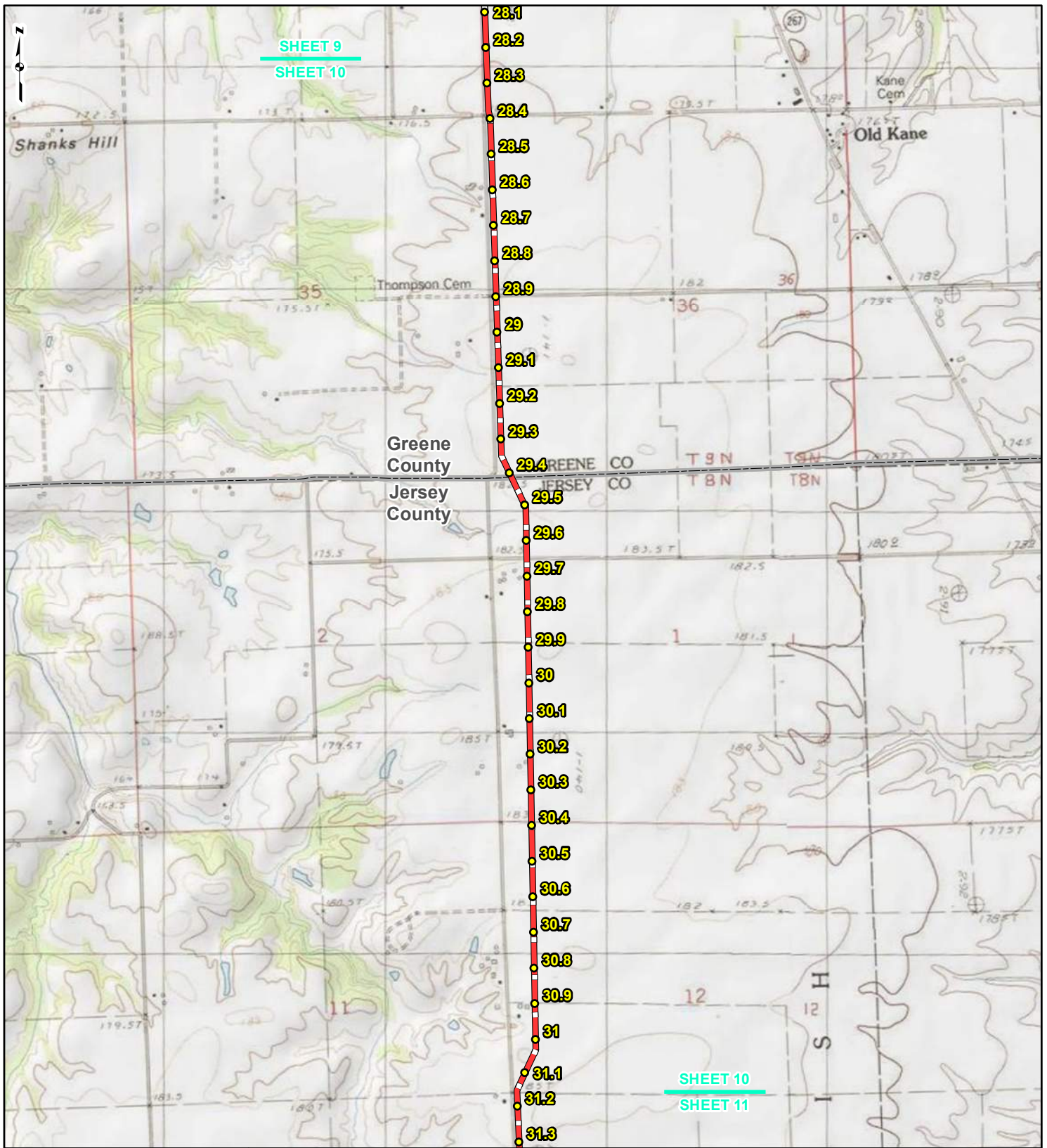
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**FIGURE 1
LOCATION MAP
SHEET 9 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



SHEET 9
SHEET 10

SHEET 10
SHEET 11



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

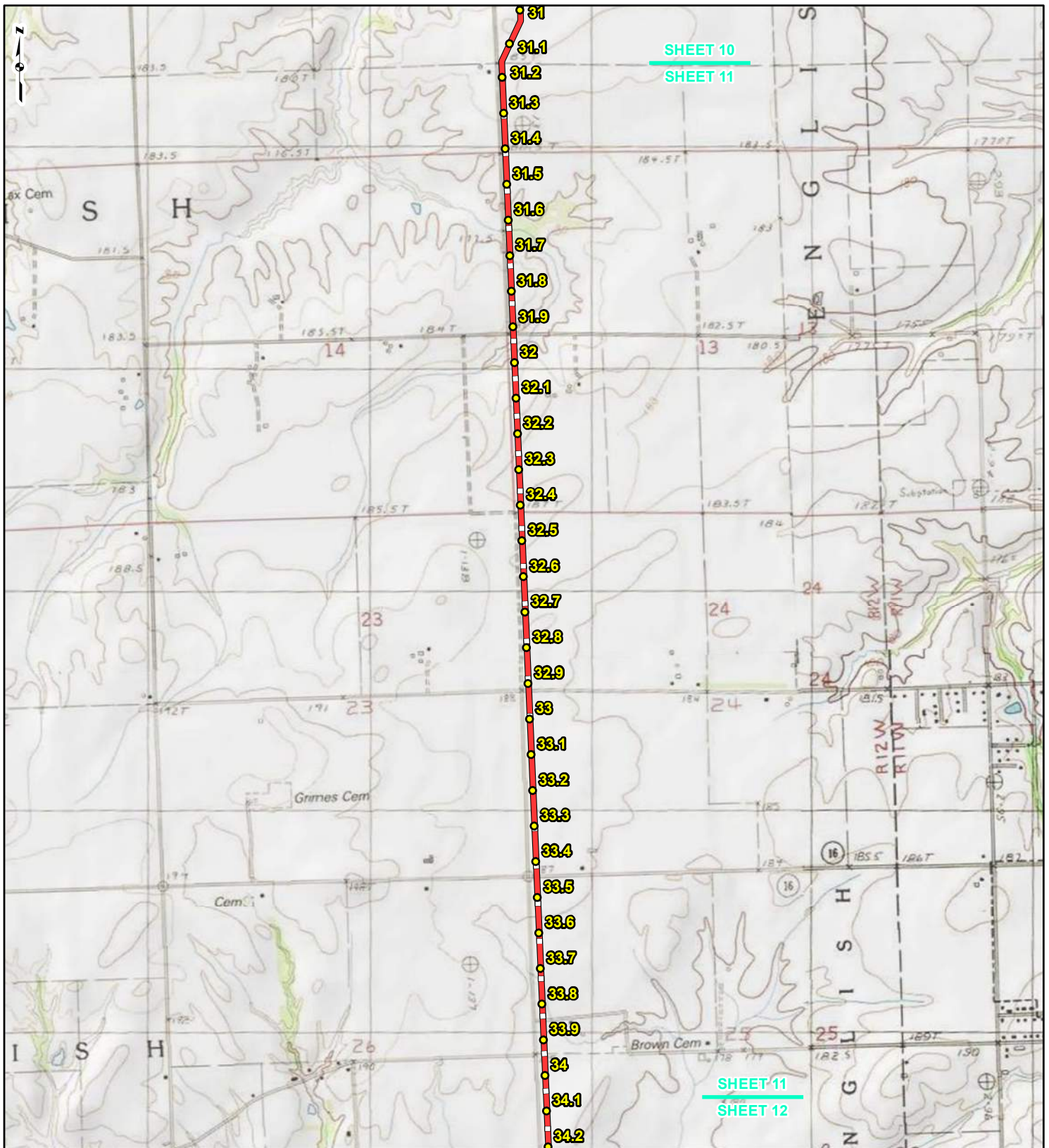
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**FIGURE 1
LOCATION MAP
SHEET 10 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

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● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

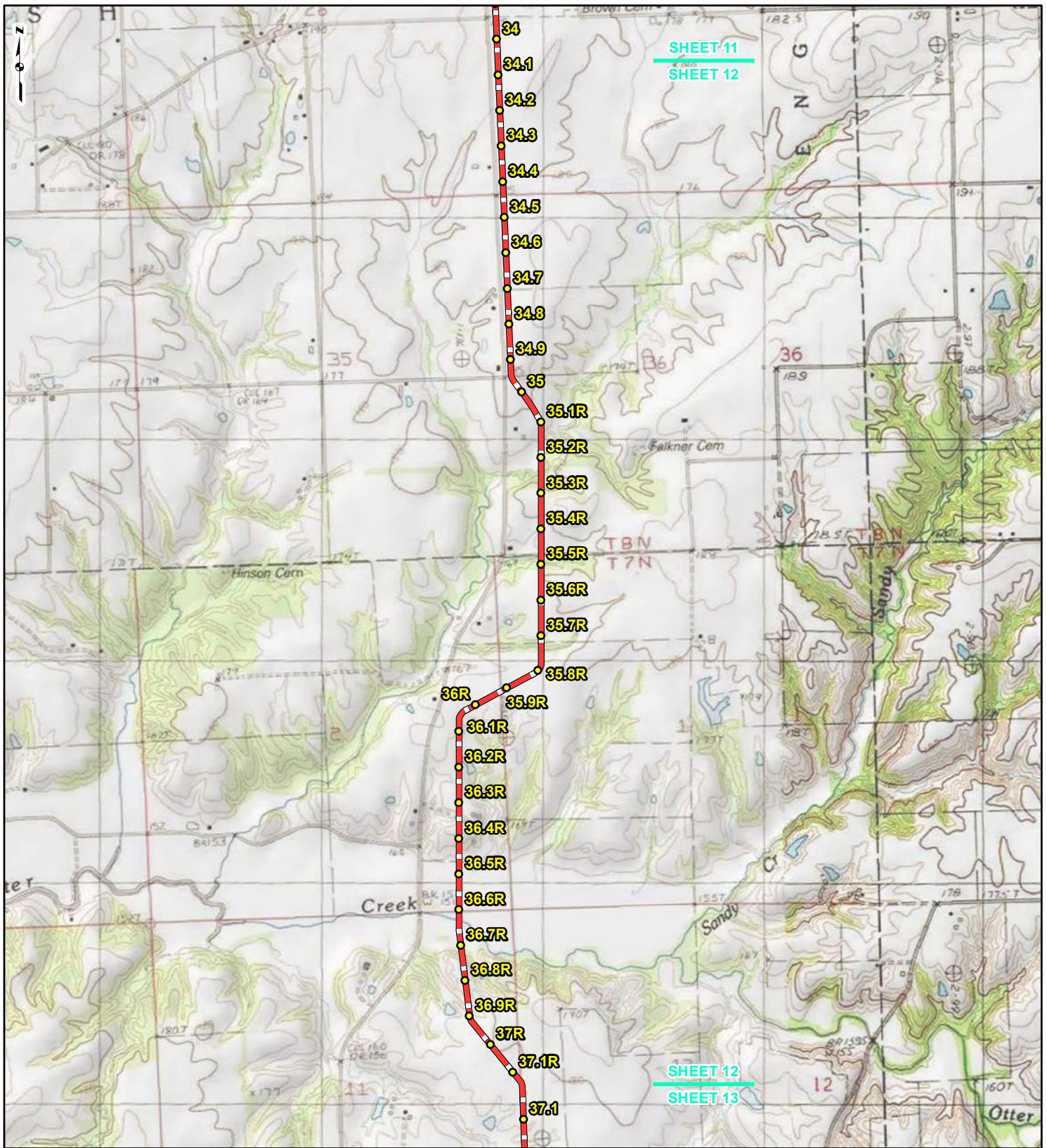
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**FIGURE 1
LOCATION MAP
SHEET 11 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), EL SAH (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 03/2017.



SHEET 11
SHEET 12

SHEET 12
SHEET 13



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

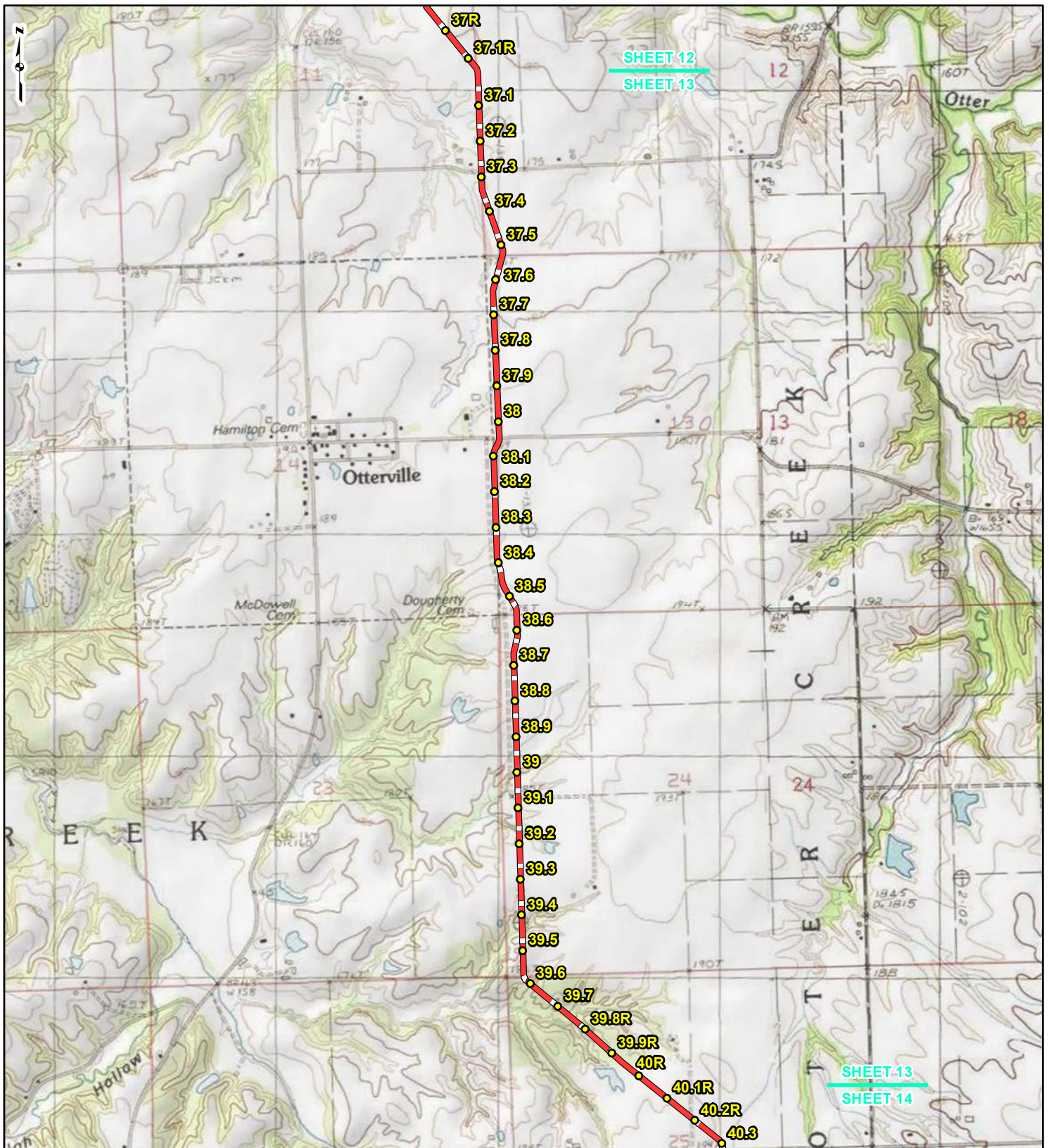
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**FIGURE 1
LOCATION MAP
SHEET 12 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	□ COUNTY BOUNDARY
	□ STATE BOUNDARY

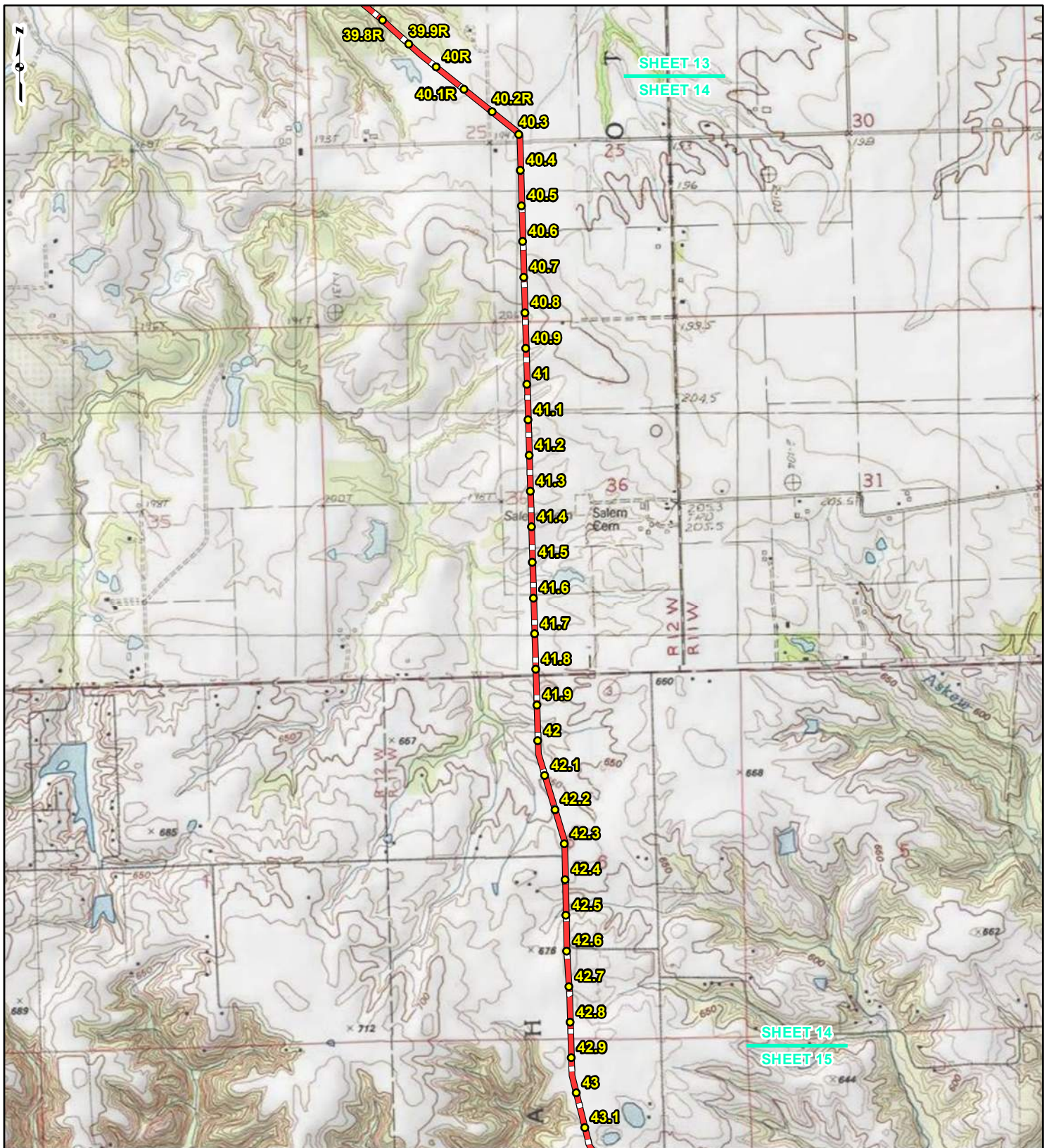
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 13 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

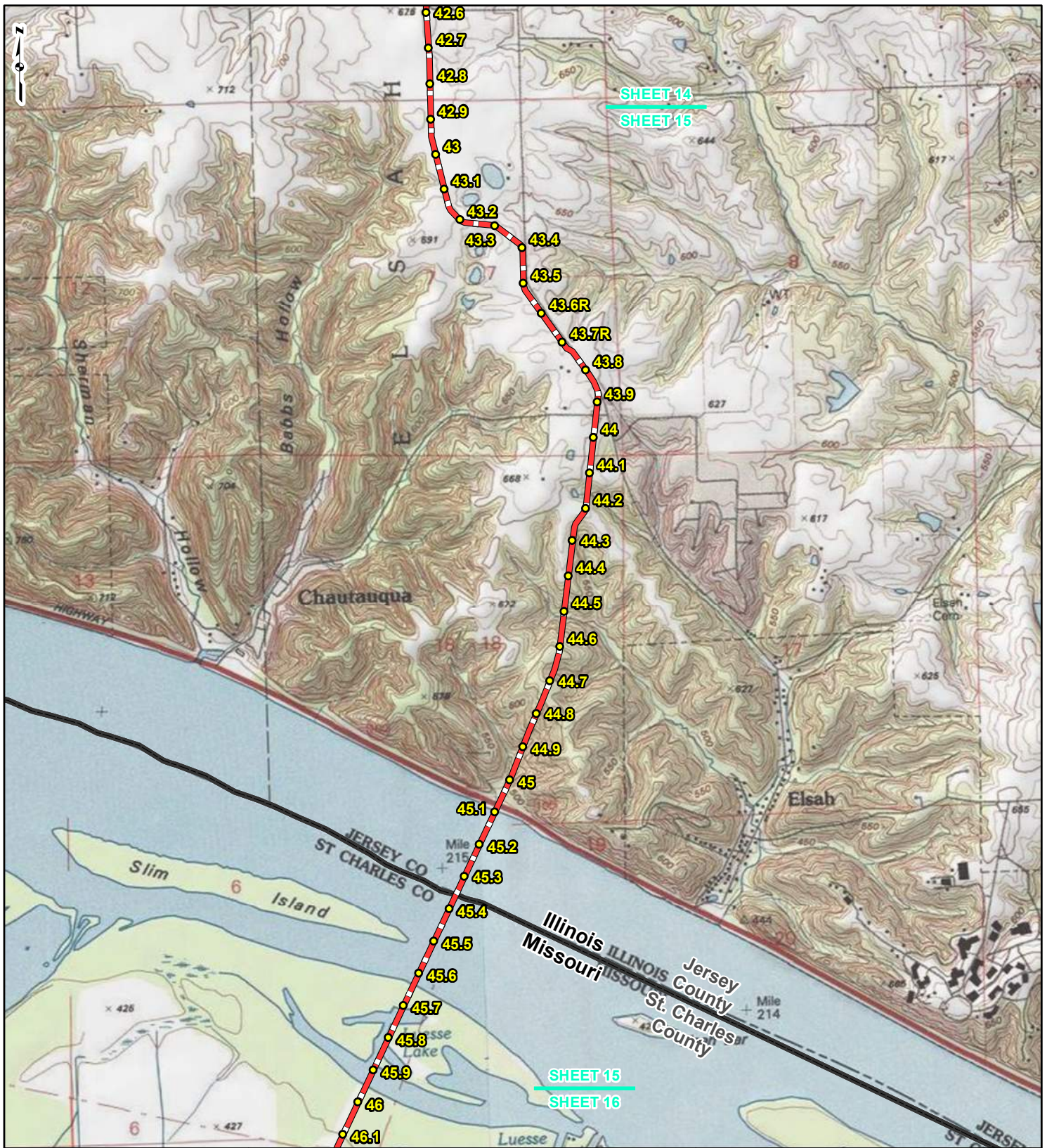
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FIGURE 1
LOCATION MAP
SHEET 14 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE NORTH COUNTY
- 24-INCH PIPELINE EXTENSION
- NORTH COUNTY
- EXTENSION
- MILEPOST
- MILEPOST
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

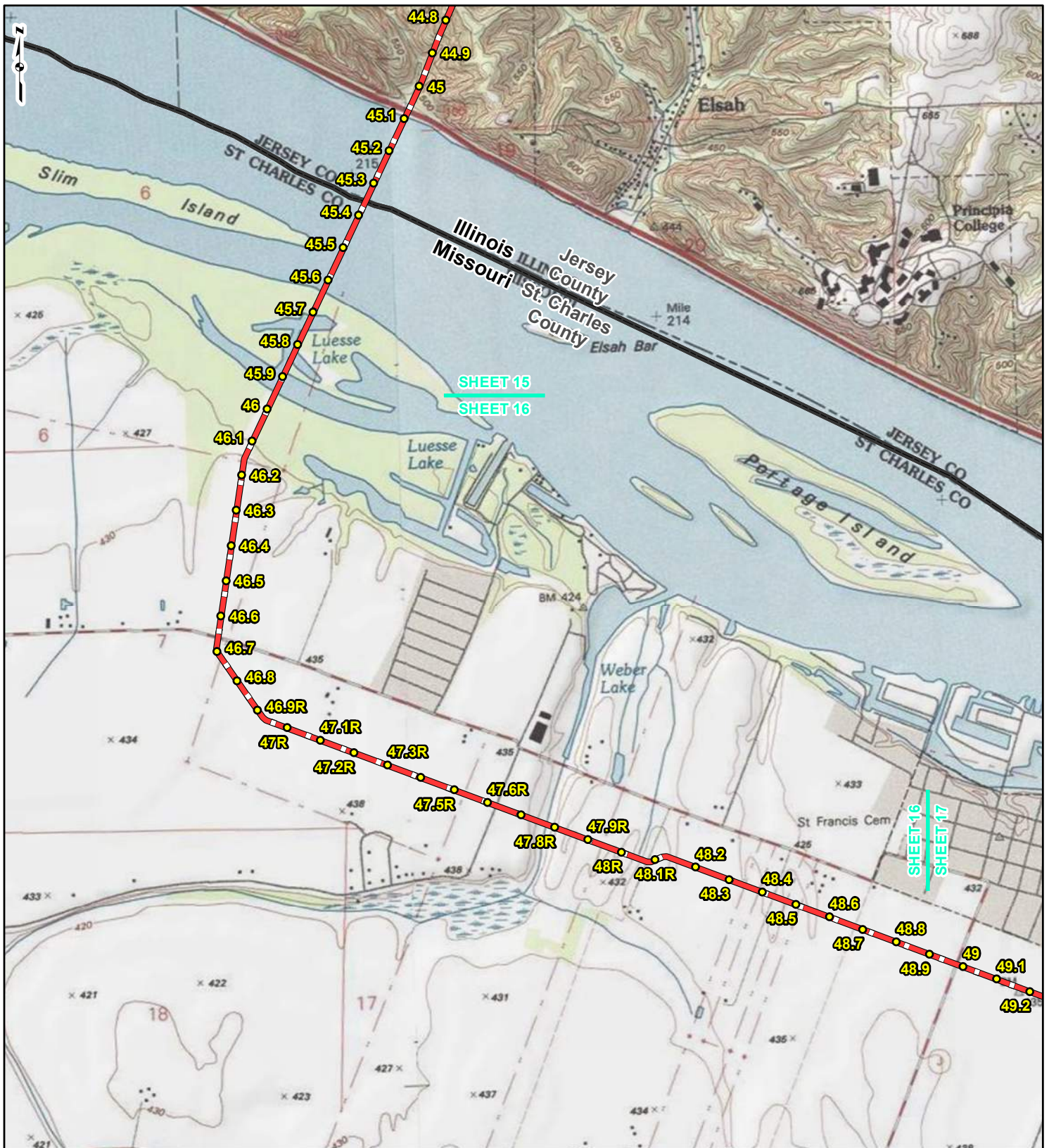
FIGURE 1
LOCATION MAP
SHEET 15 OF 21

SPIRE STL PIPELINE PROJECT

gai consultants **spire**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



SHEET 15
SHEET 16

SHEET 16
SHEET 17





LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

0 1,000 2,000 4,000
Feet

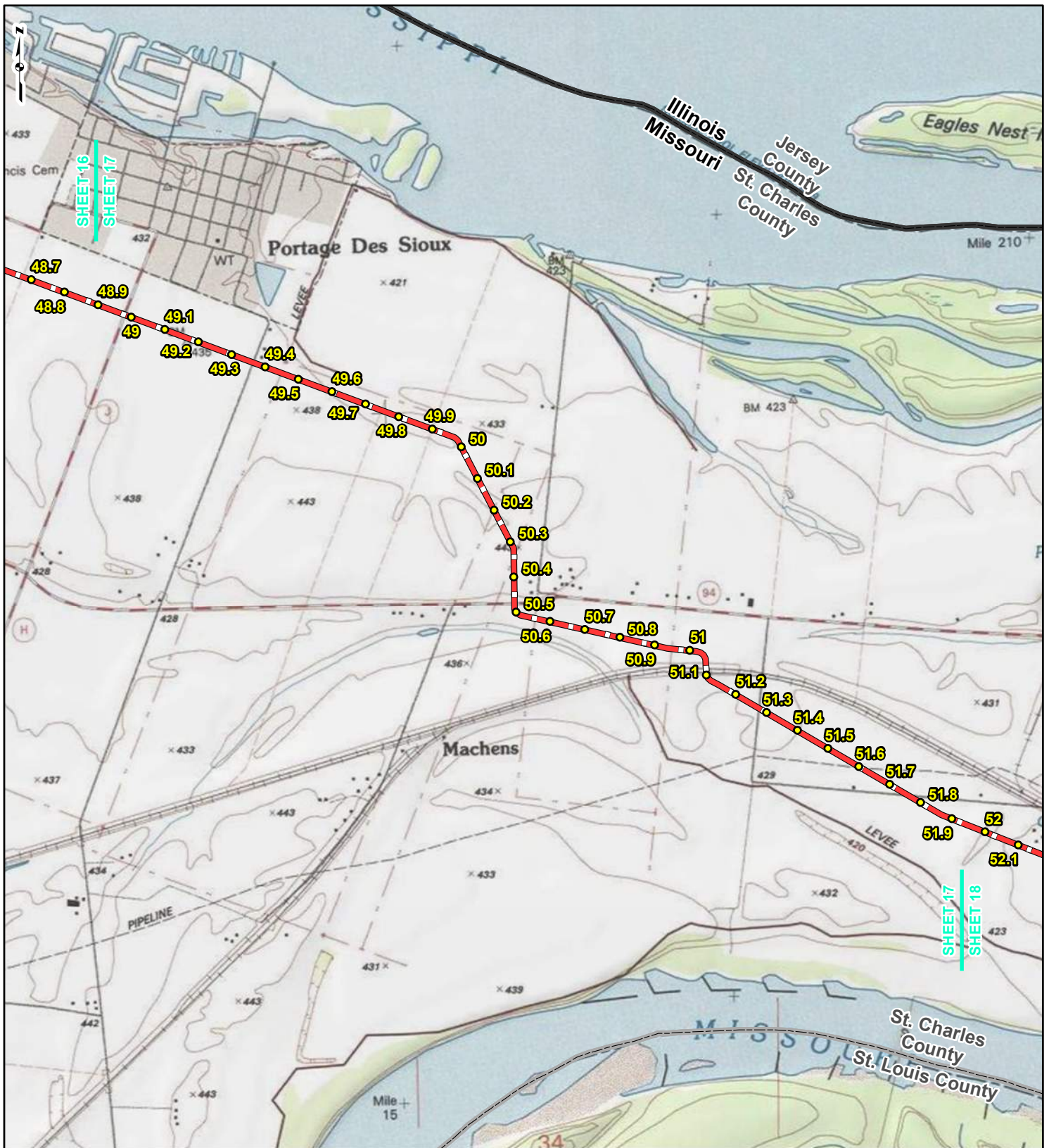
FIGURE 1
LOCATION MAP
SHEET 16 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

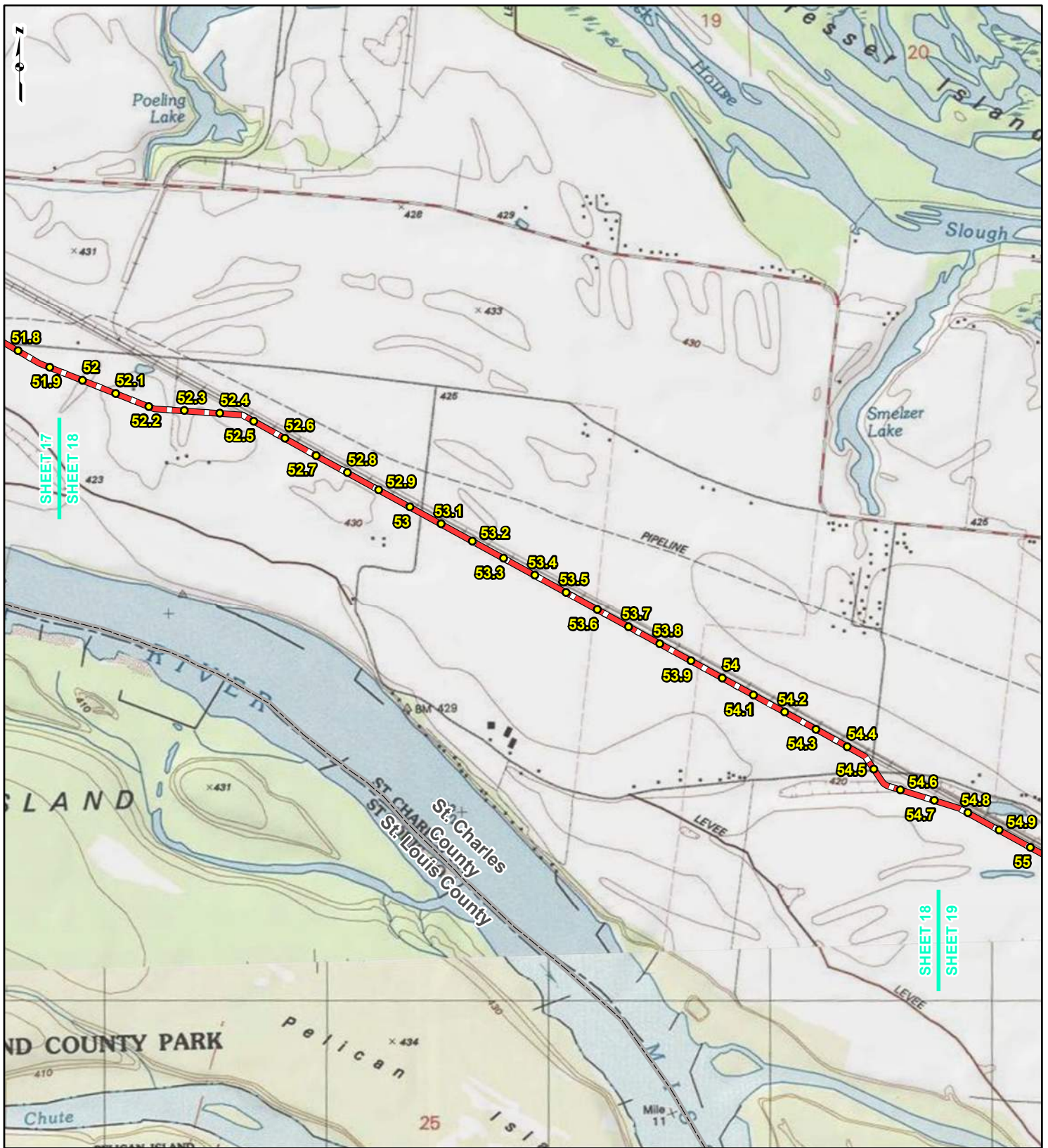
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 17 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
● STATE BOUNDARY	▭ STATE BOUNDARY

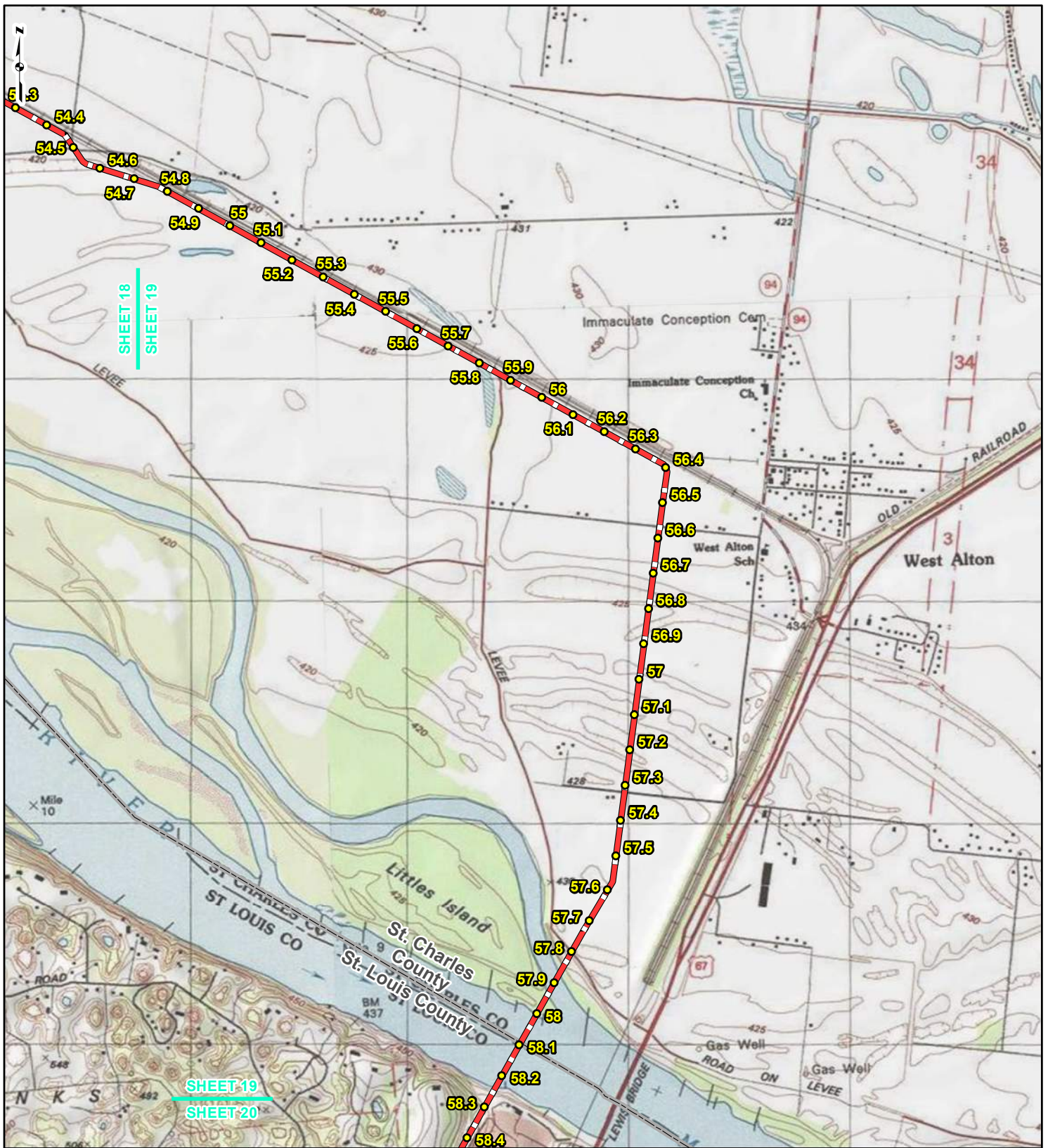
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 18 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
● NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

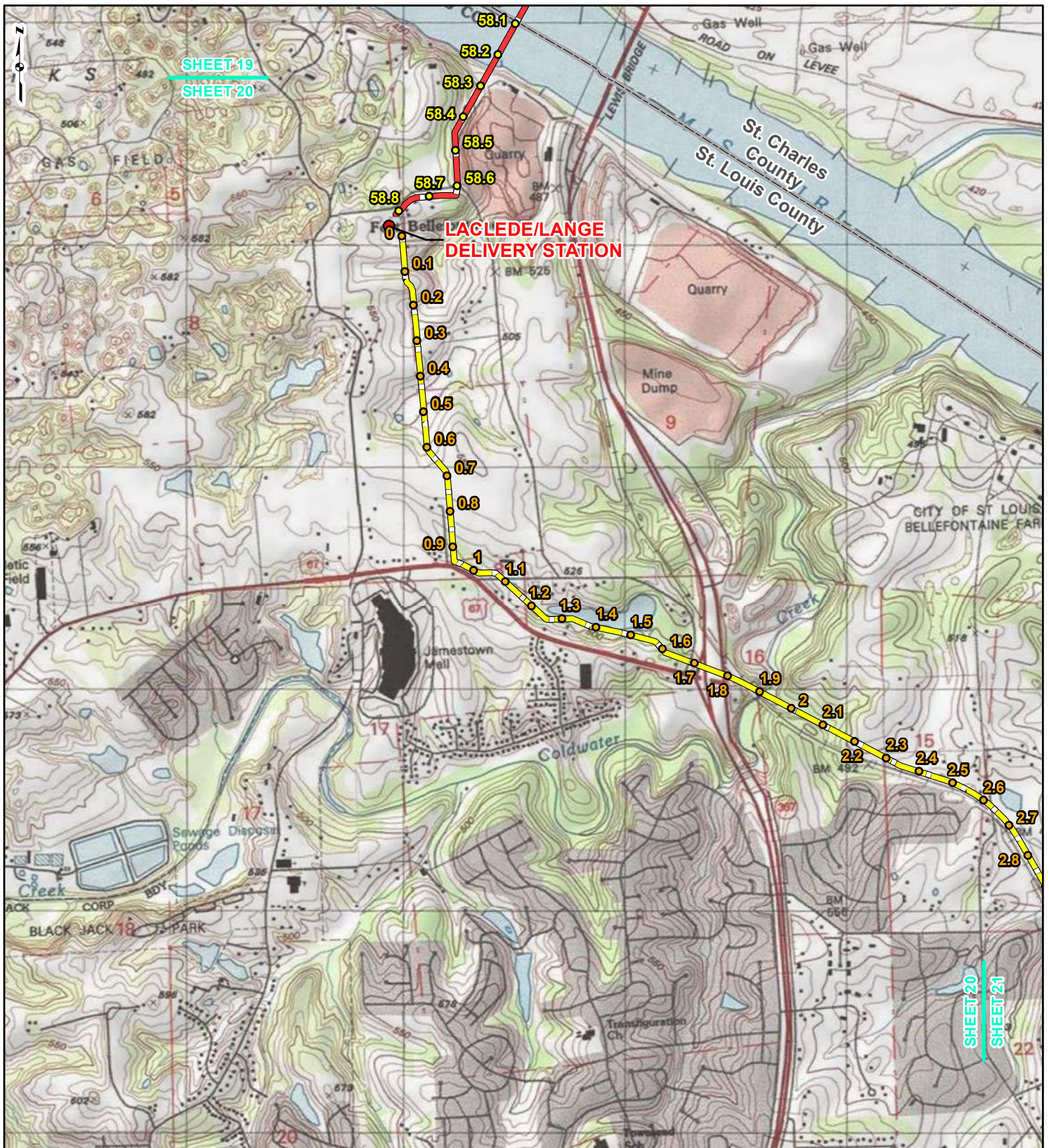
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 19 OF 21

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



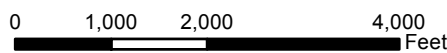
SHEET 19
SHEET 20

SHEET 20
SHEET 21

**LACLEDE/LANGE
DELIVERY STATION**

LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE MILEPOST
- NORTH COUNTY EXTENSION MILEPOST
- 24-INCH PIPELINE NORTH COUNTY
- 24-INCH PIPELINE EXTENSION
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY



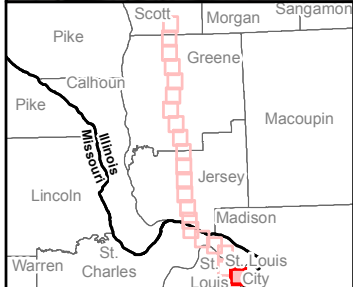
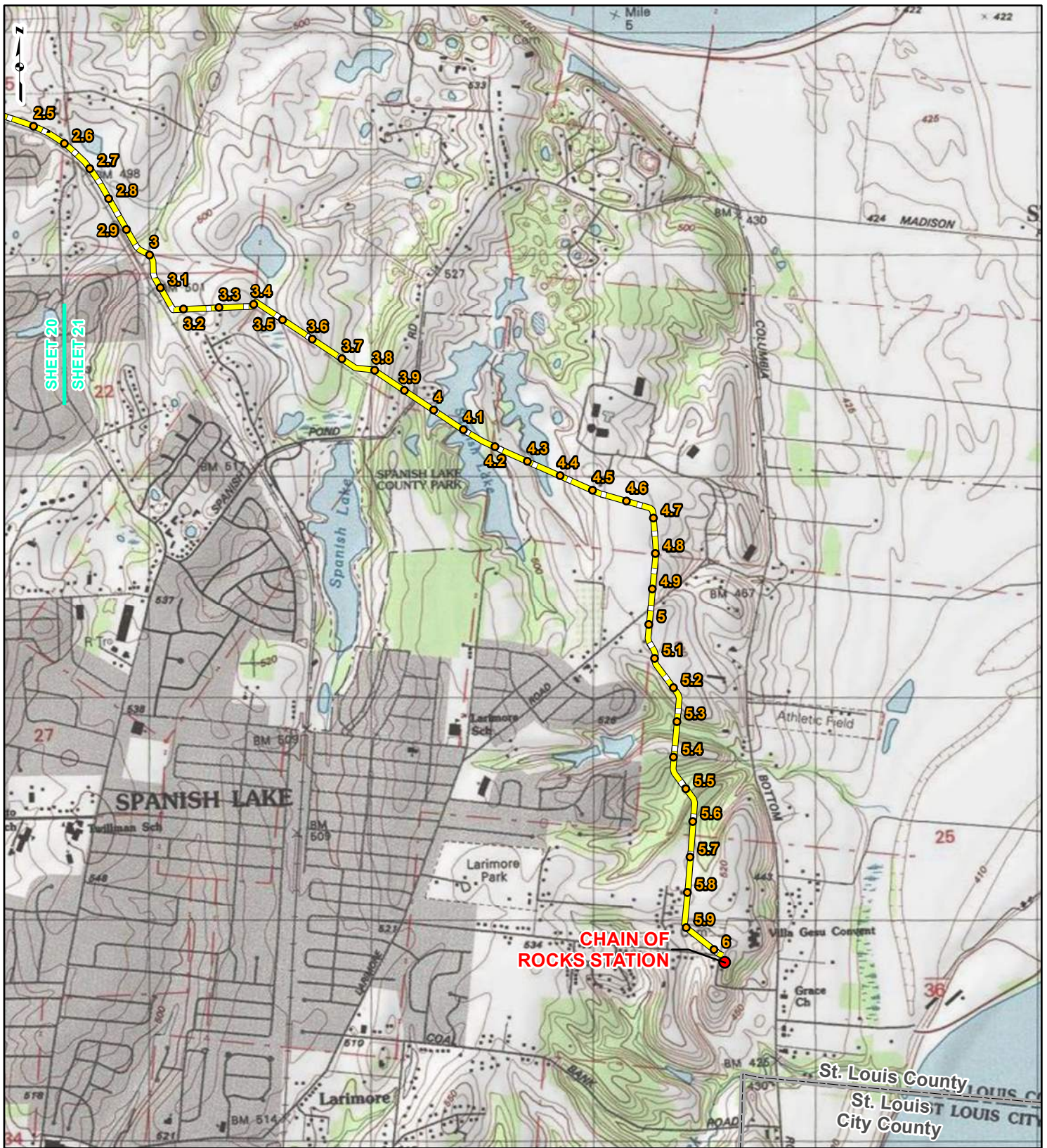
**FIGURE 1
LOCATION MAP
SHEET 20 OF 21**

**SPIRE STL
PIPELINE
PROJECT**



DRAWN BY: PMH DATE: 3/28/2017
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ELSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE EXTENSION	— 24-INCH PIPELINE EXTENSION
● NORTH COUNTY MILEPOST	▭ COUNTY BOUNDARY
● EXTENSION MILEPOST	▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 21 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



GAI Consultants, Inc.-Chicago Office
2300 Cabot Drive, Suite 395
Lisle, Illinois 60532

T 630.605.5255

March 28, 2017

Mr. Steve Altman
P.E. Downstate Regulatory Program
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, IL 62702-1271

**Re: Supplemental Information (Docket No. CP17-40)
Spire STL Pipeline LLC
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Mr. Altman:

In June 2016, Spire Pipeline LLC ("Spire") initiated consultation with your office regarding their intent to construct, own, and operate the proposed Spire STL Pipeline Project ("Project") which consisted of approximately 59 miles of new, greenfield 24-inch-diameter steel pipeline (referred to as the "24-inch pipeline") originating at an interconnection with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois; extending down through Greene and Jersey counties in Illinois before crossing the Mississippi River and extending east into St. Charles County, Missouri, crossing the Missouri River and tying into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Line 880 consisted of approximately seven miles of existing 20-inch-diameter steel pipeline. As part of the proposed Project, Spire was planning on modifying Line 880 before placing it in to interstate service. The Project also included the construction of minor aboveground metering and regulating ("M&R") stations. On January 26, 2017, Spire filed an application with the Federal Energy Regulatory Commission ("FERC") for a Certificate of Public Convenience and Necessity for the Project (Docket No. CP17-40-000).

On March 15, 2017, Spire filed a "Preliminary Notification of Preferred Route Change" with FERC, indicating that the Spire no longer plans to modify the existing Line 880 as part of the Project. Instead, Spire intends to construct a new, greenfield 24-inch pipeline (referred to as the "North County Extension") which will extend the 24-inch pipeline portion of the Project to a proposed interconnect with Enable Mississippi River Transmission ("Enable MRT"). Spire plans to file an amended application with FERC in April 2017. GAI Consultants, Inc. ("GAI"), on behalf of Spire, is submitting supplemental information to assist with your review of the Project as amended. An updated description of the proposed Project facilities and location map (Figure 1) are provided herein.

Amended Project Description

The amended Project as proposed will consist of approximately 65 miles of new, greenfield, 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the REX pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with LGC. The second segment of new, greenfield pipeline, North County Extension, will consist of a 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC

interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable MRT and LGC. The total length of the Project pipeline will be approximately 65 miles. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day ("Dth/d"). No compression will be required. The Project also includes the construction of three new M&R stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri.

The acquisition and modifications to LGC's existing Line 880 is no longer proposed as part of the Project.

Spire anticipates a typical 90-foot temporary construction right-of-way width, and a 50-foot permanent easement. The construction right-of-way is anticipated to be reduced to 75 feet at streams and wetlands. An additional 25 feet of temporary work space will be required through agricultural areas, and additional temporary work space will be required to facilitate construction in certain areas, such as crossings of roads, railroads, streams, and wetlands.

The updated Project schedule includes the following target dates:

- July 22, 2016 - National Environmental Policy Act ("NEPA") process began (initiation of FERC Pre-filing process);
- August 2016 through March 2017 (Anticipated) - Biological and Cultural Resource Surveys;
- January 26, 2017 - Application Filed with FERC;
- April 2017 (Anticipated) - File Amended Application with FERC;
- September 2017 (Anticipated) - Draft NEPA Document Published; and
- December 2017 (Anticipated) - FERC Decision on Application.

Construction is anticipated to commence in January 2018.

On behalf of Spire, we'd like to take this opportunity to invite the Illinois Department of Natural Resources to provide comments regarding the Project as it will be amended. We appreciate your continued involvement and cooperation in the review of this important Project.

If you have any questions or would like additional information, please feel free to contact me at 630.605.5255 or by e-mail at L.Ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

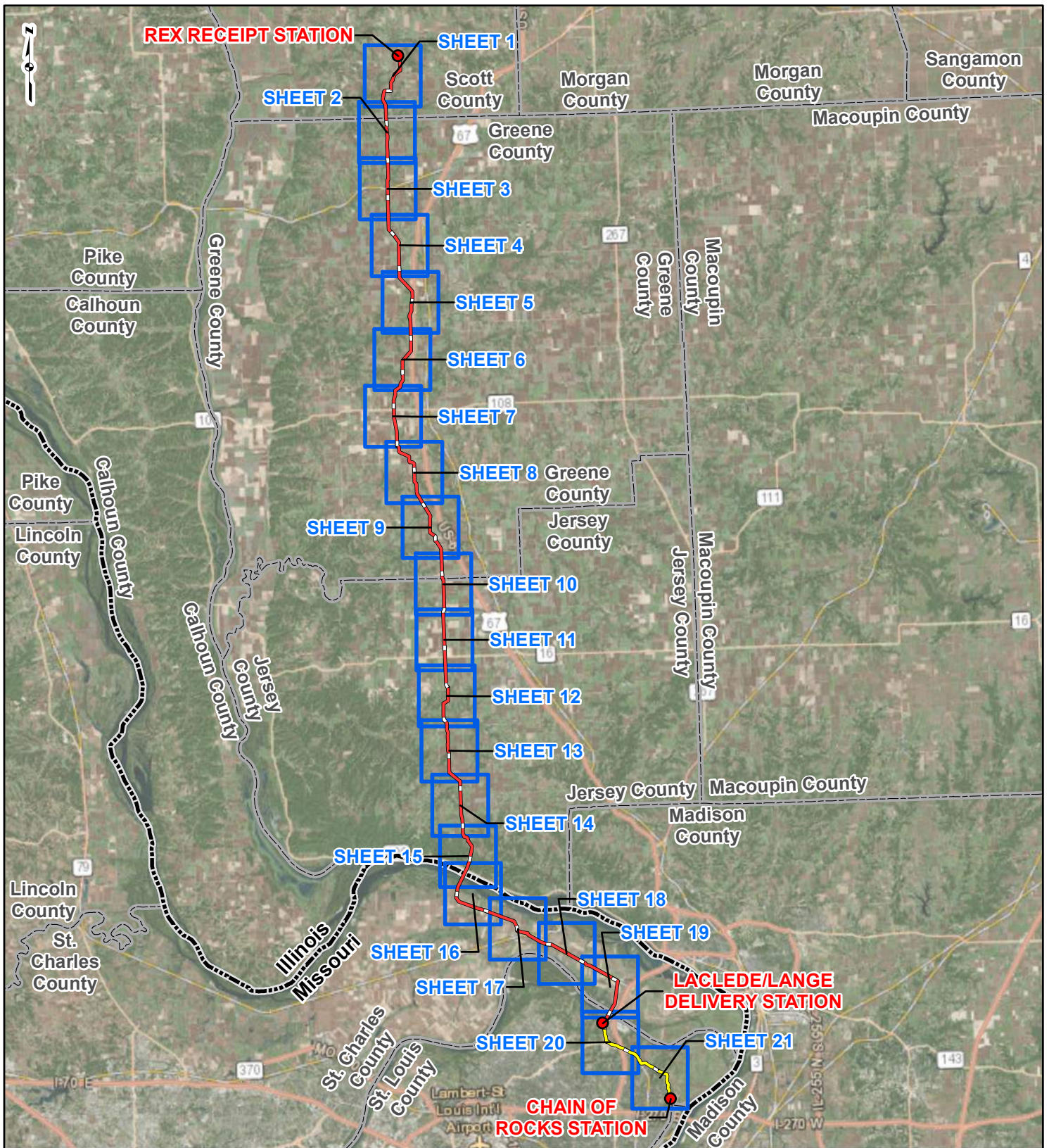


Lori M. Ferry
Environmental Manager

LMF/ka

Attachment: United States Geological Survey (USGS) Topographic Map (Figure 1)

ATTACHMENT
USGS TOPOGRAPHIC MAP (FIGURE 1)



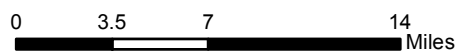
PROJECT LOCATION



SCOTT, GREENE AND JERSEY COUNTIES, ILLINOIS AND ST. CHARLES AND ST. LOUIS COUNTIES, MISSOURI

LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE
- NORTH COUNTY EXTENSION
- SHEET INDEX
- COUNTY BOUNDARY
- STATE BOUNDARY



**FIGURE 1
LOCATION MAP
SHEET INDEX**



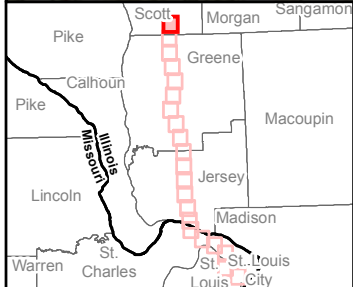
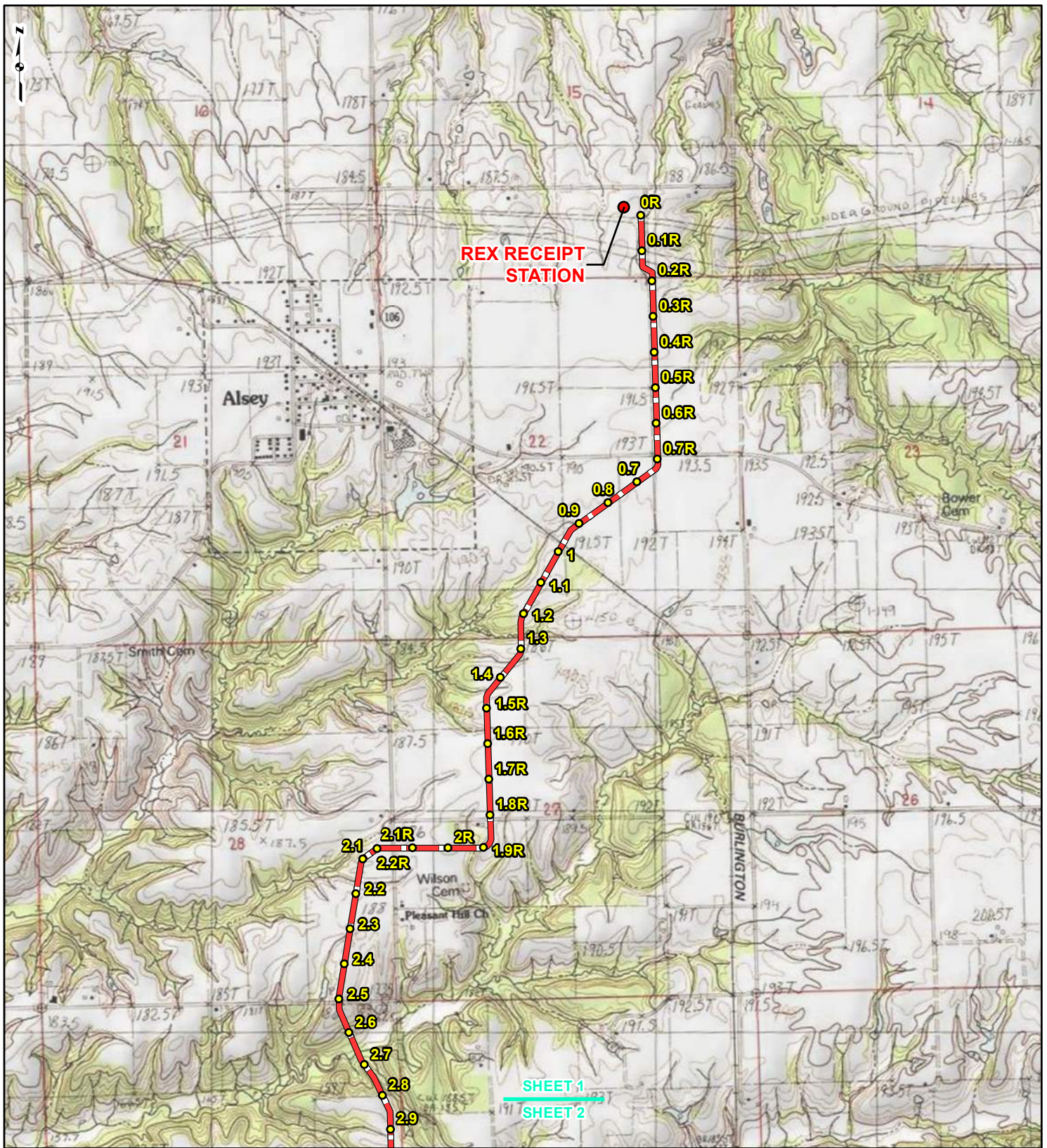
**SPIRE STL
PIPELINE
PROJECT**



DRAWN BY: PMH
CHECKED: SWW

DATE: 3/28/2017
APPROVED: LMF

REFERENCE: ESRI WORLD IMAGERY AND TRANSPORTATION, NAIP, USDA FSA, 2015, ACCESSED 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE MILEPOST	— EXTENSION
○ NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION MILEPOST	▭ STATE BOUNDARY

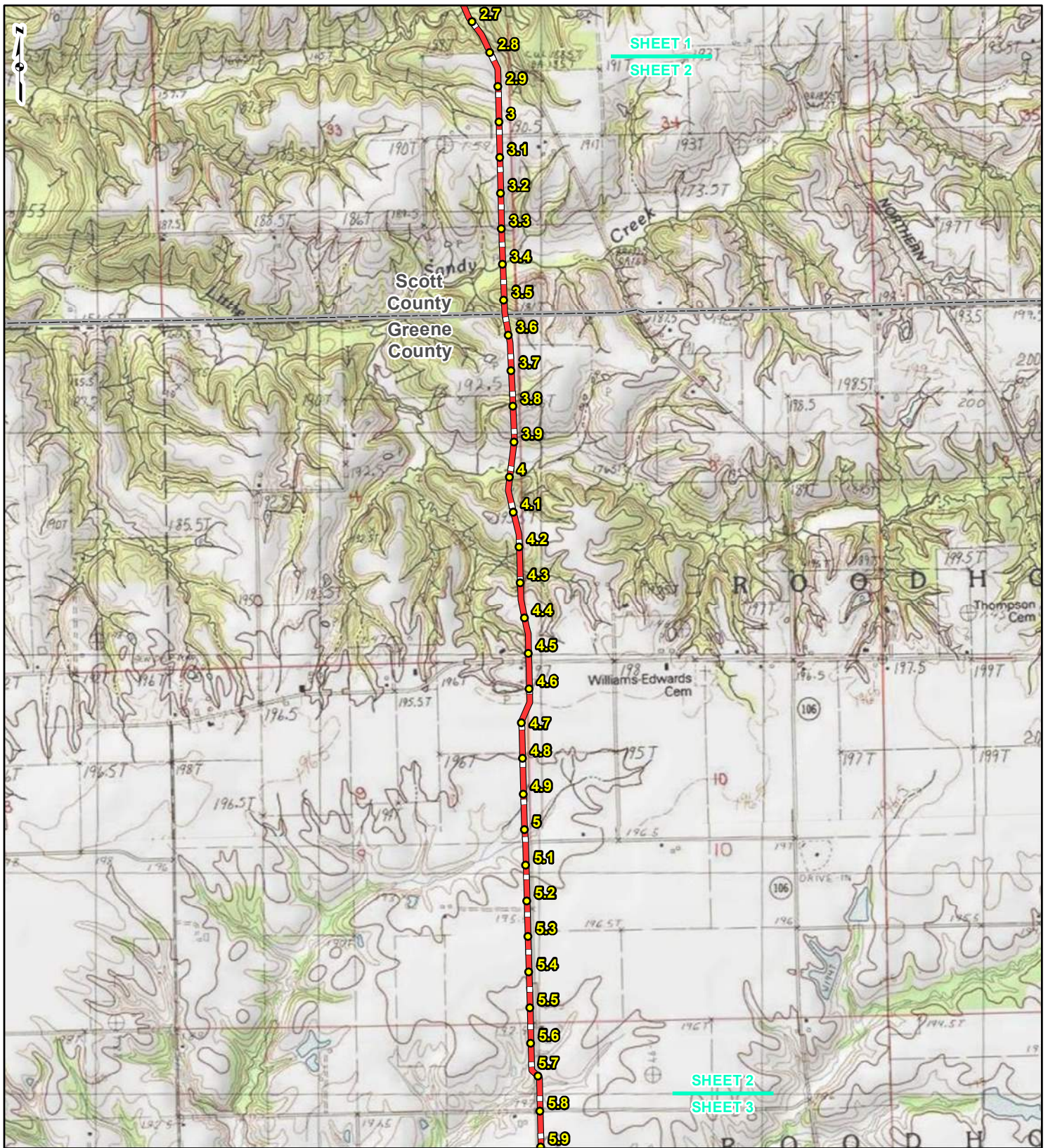
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 1 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
○ MILEPOST	▭ STATE BOUNDARY

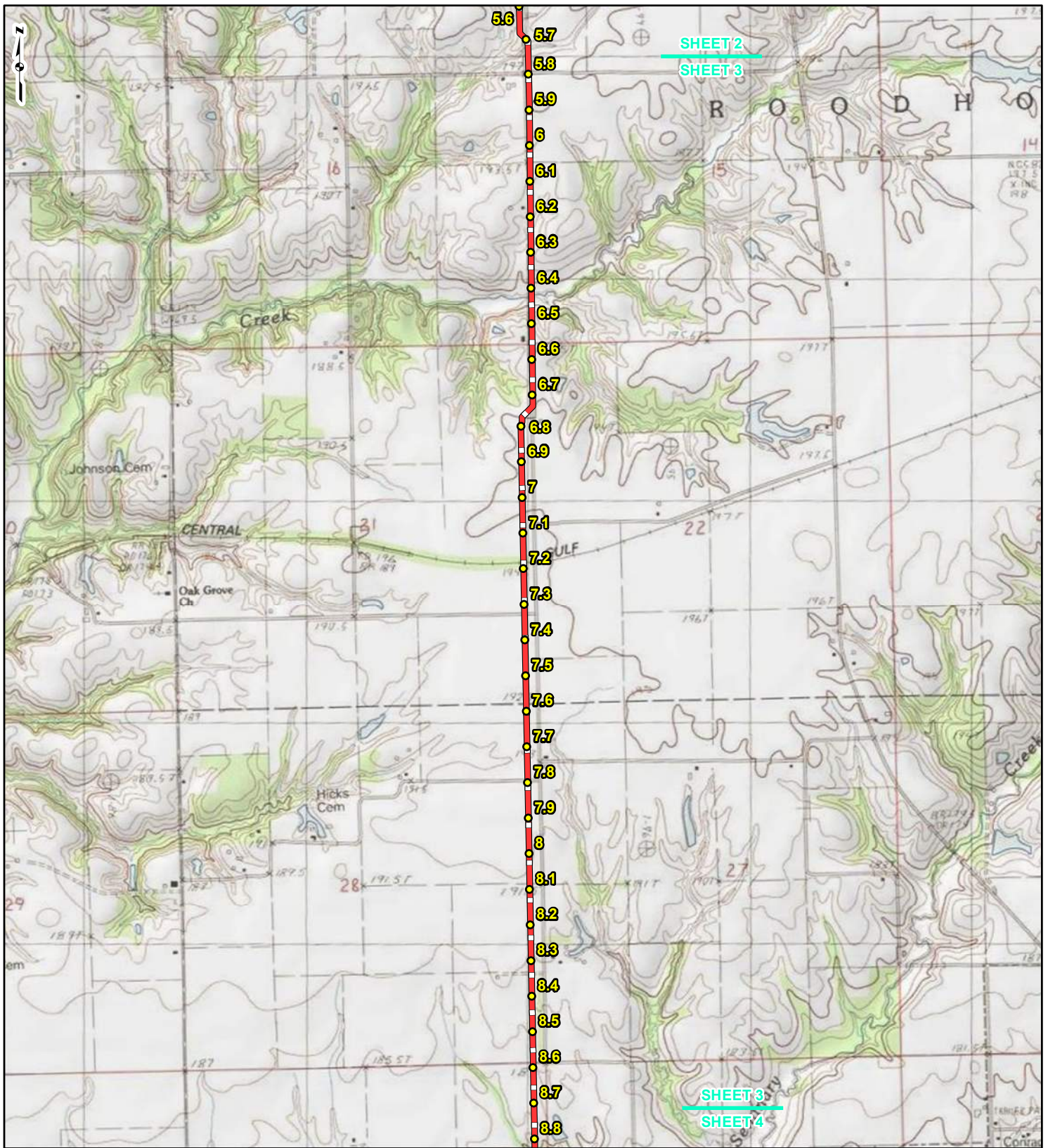
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 2 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

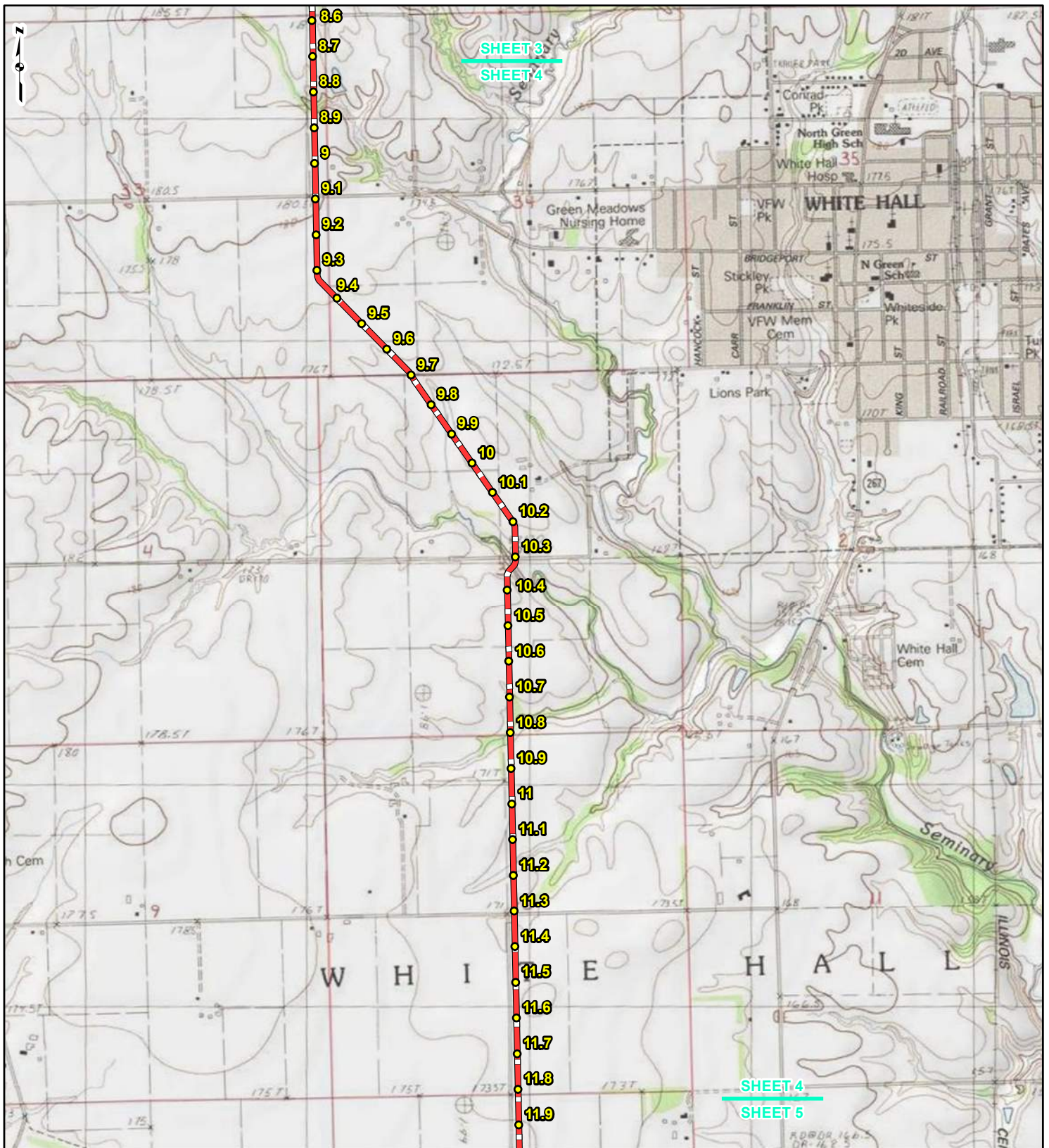
0 1,000 2,000 4,000 Feet

FIGURE 1
LOCATION MAP
SHEET 3 OF 21

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSA (1995), FLORISSANT (1995), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
● NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

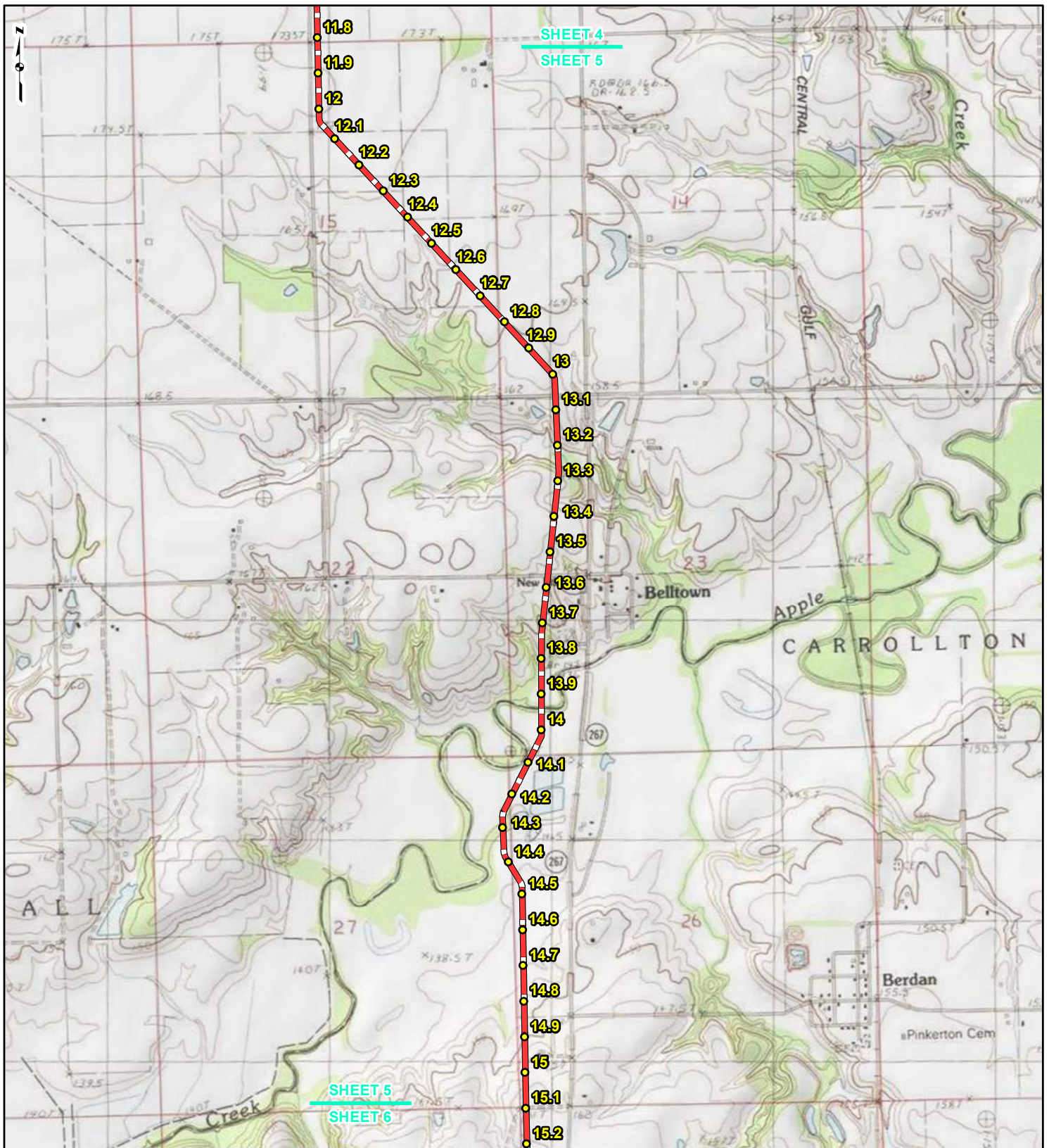
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Feet

FIGURE 1
LOCATION MAP
SHEET 4 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

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), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 03/2017.



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE MILEPOST
- NORTH COUNTY EXTENSION MILEPOST
- 24-INCH PIPELINE
- NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

0 1,000 2,000 4,000 Feet

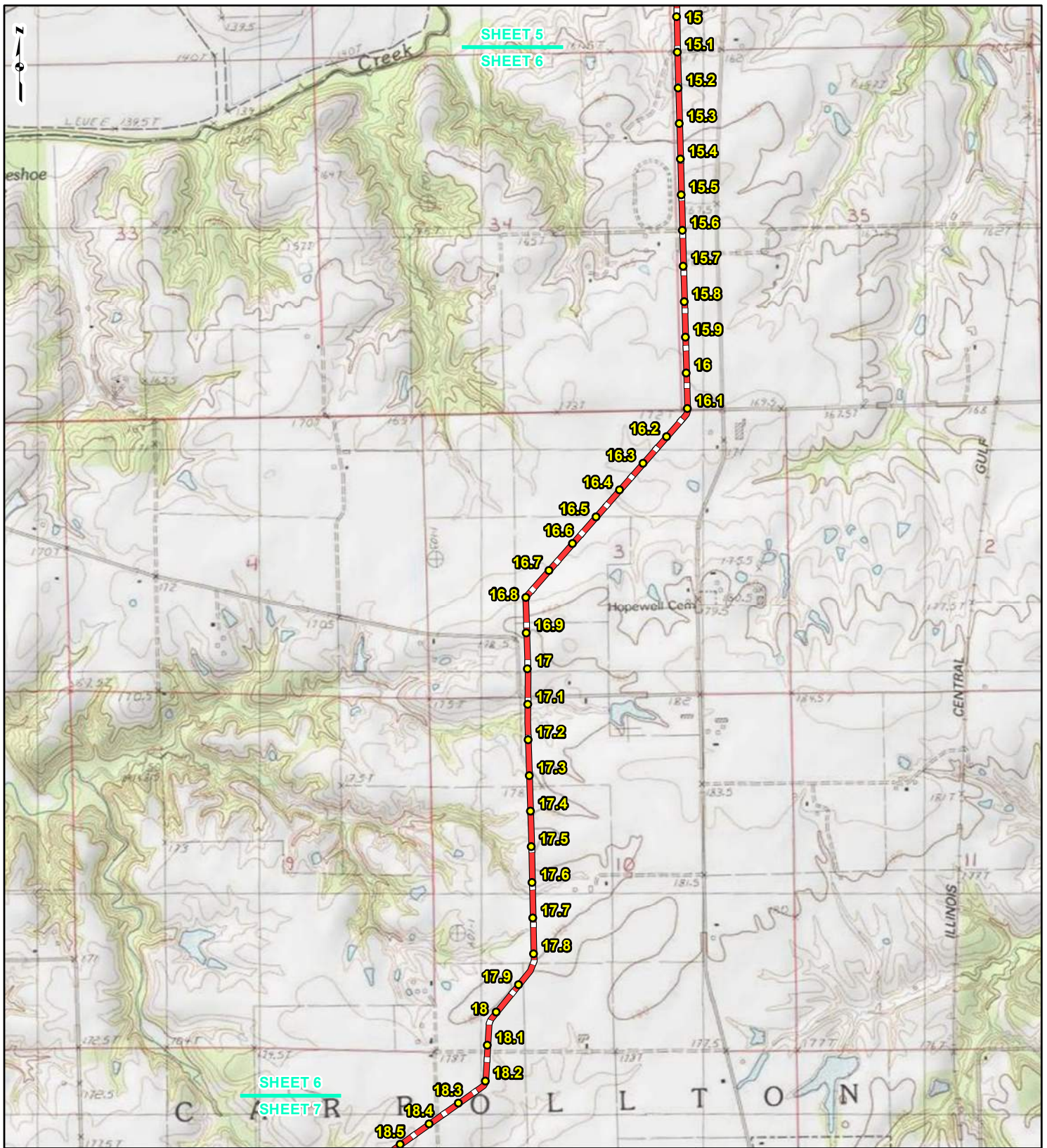
FIGURE 1
LOCATION MAP
SHEET 5 OF 21

SPIRE STL PIPELINE PROJECT

gai consultants **spire**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● NORTH COUNTY	— EXTENSION
● EXTENSION	▭ COUNTY BOUNDARY
● MILEPOST	▭ STATE BOUNDARY

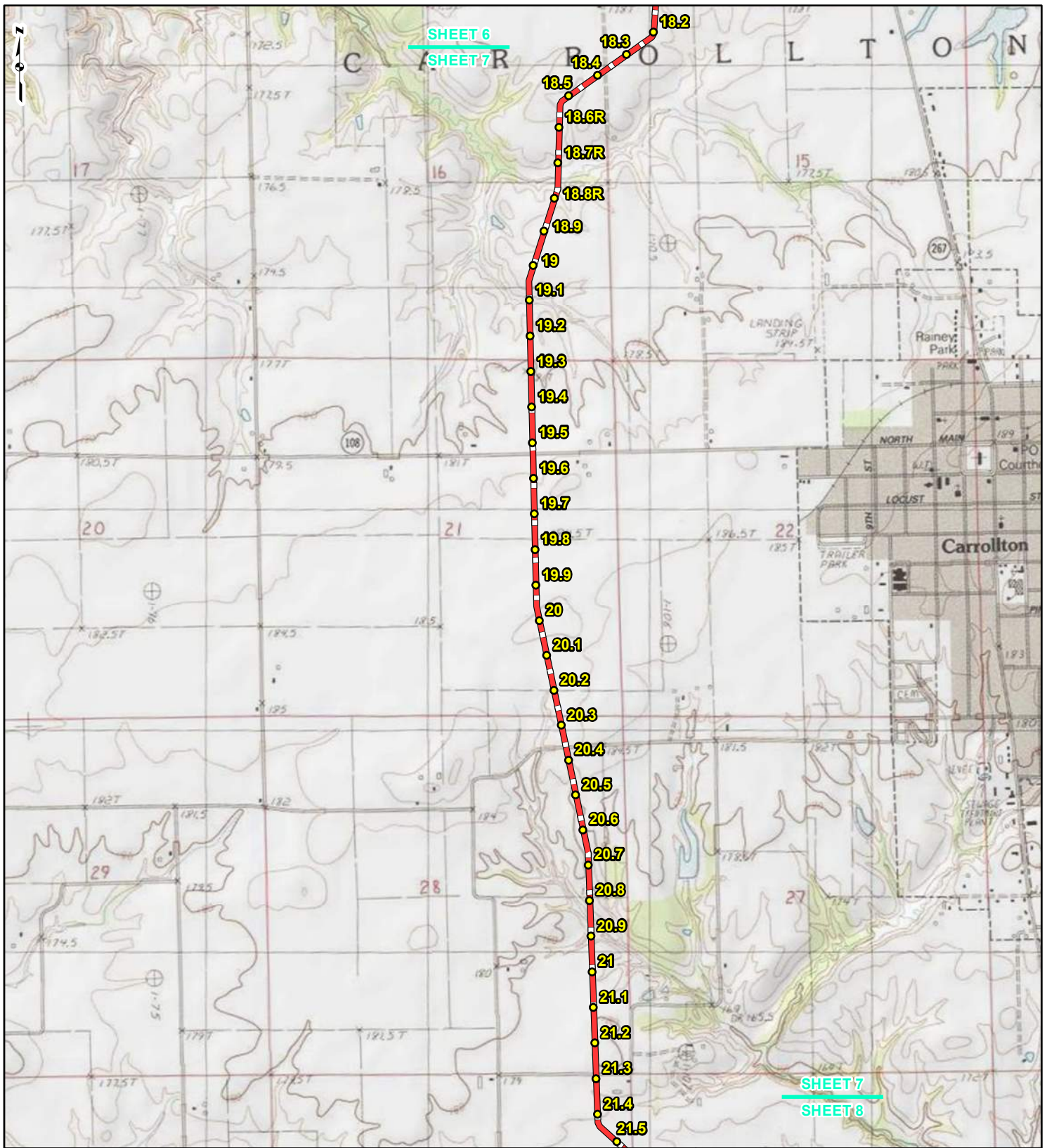
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 6 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

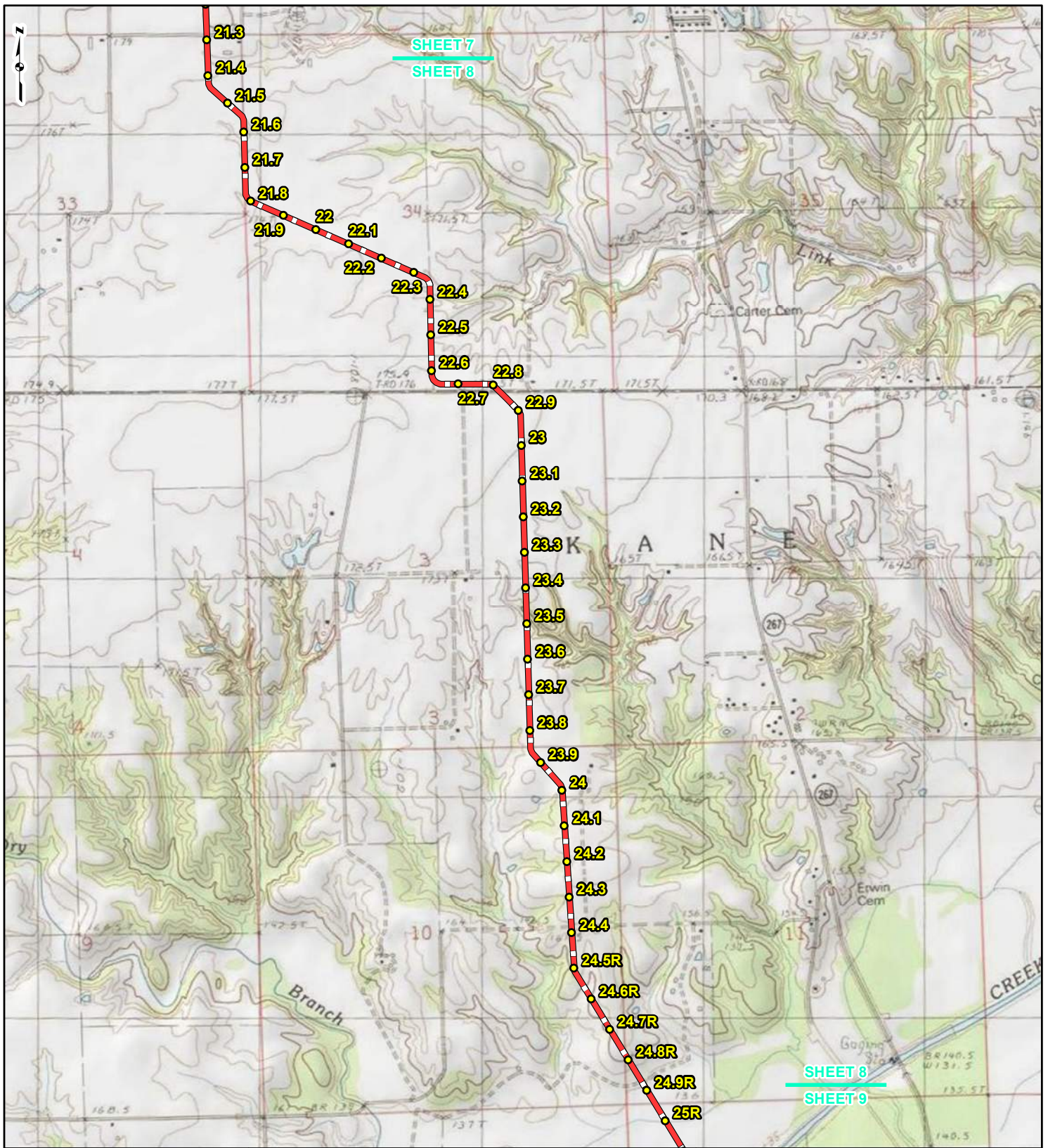
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 7 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

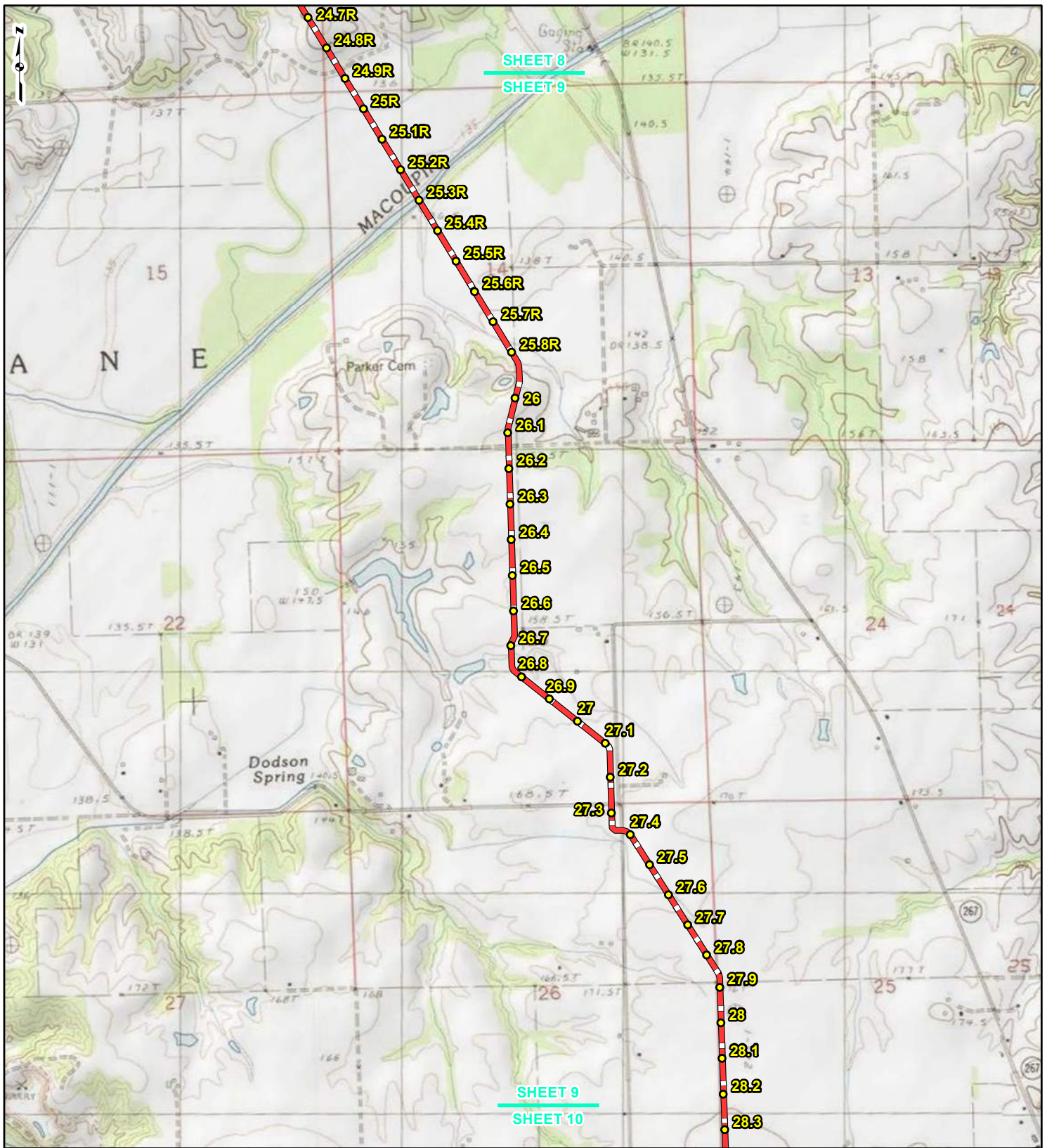
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 8 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

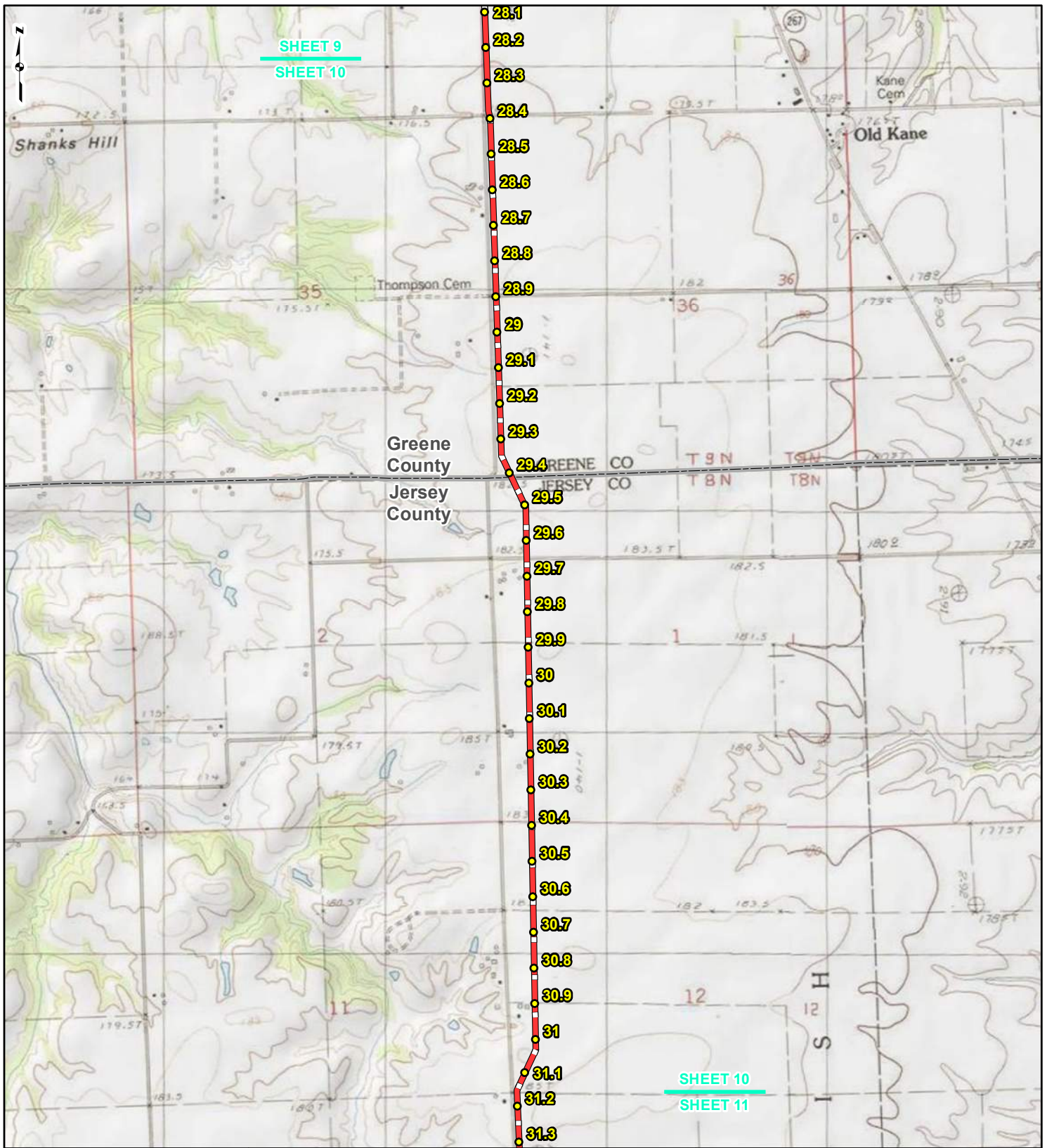
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 9 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



SHEET 9
SHEET 10

SHEET 10
SHEET 11



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE MILEPOST
- NORTH COUNTY EXTENSION MILEPOST
- 24-INCH PIPELINE NORTH COUNTY EXTENSION
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

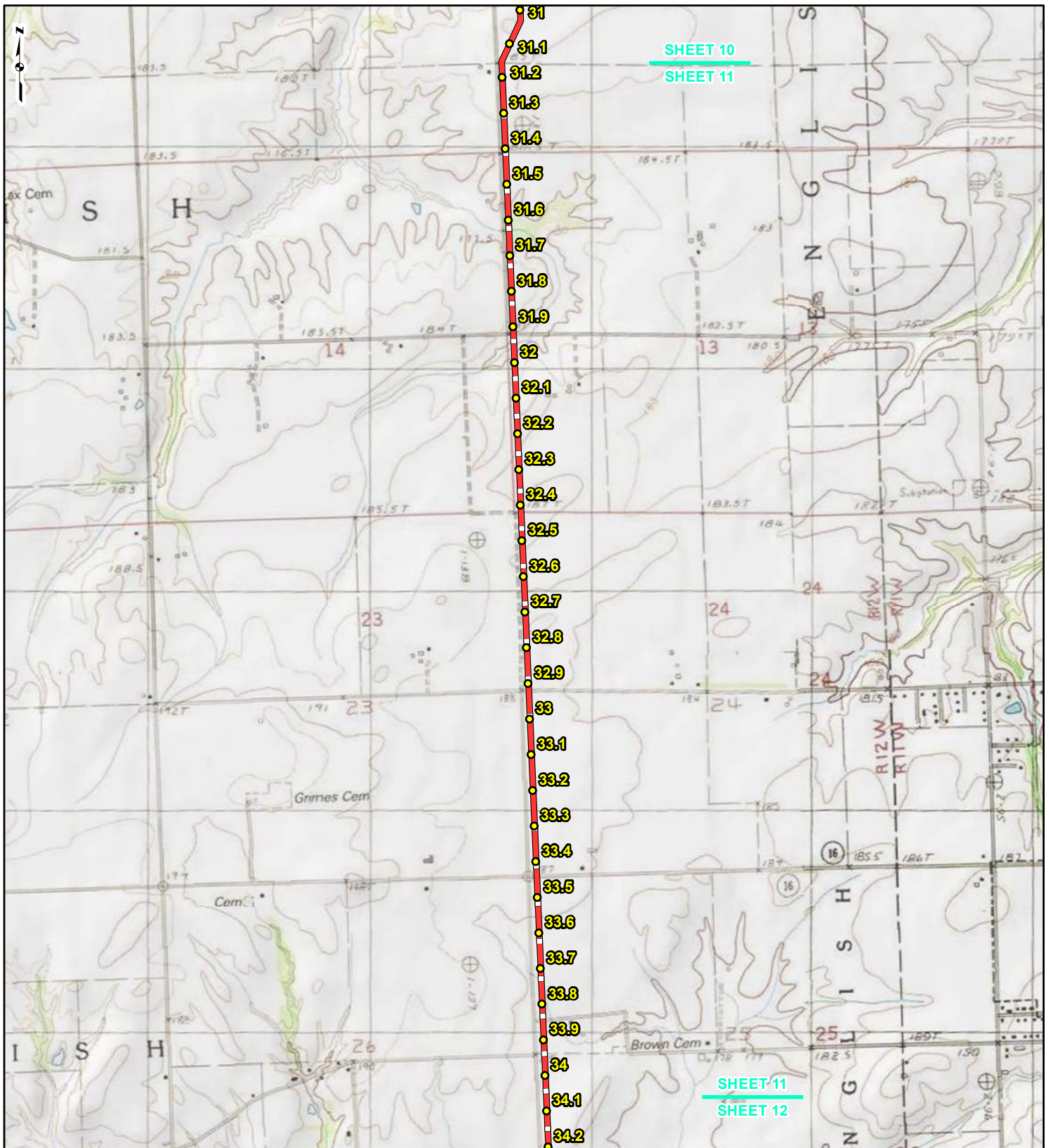
**FIGURE 1
LOCATION MAP
SHEET 10 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

gai consultants **spire**

DRAWN BY: PMH DATE: 3/28/2017
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.

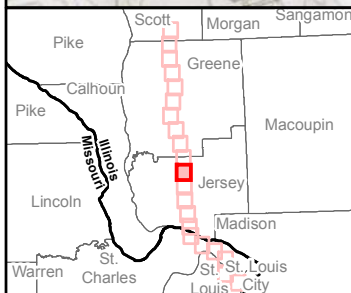


SHEET 10

SHEET 11

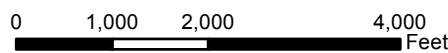
SHEET 11

SHEET 12



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE MILEPOST
- NORTH COUNTY EXTENSION MILEPOST
- 24-INCH PIPELINE NORTH COUNTY EXTENSION
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY



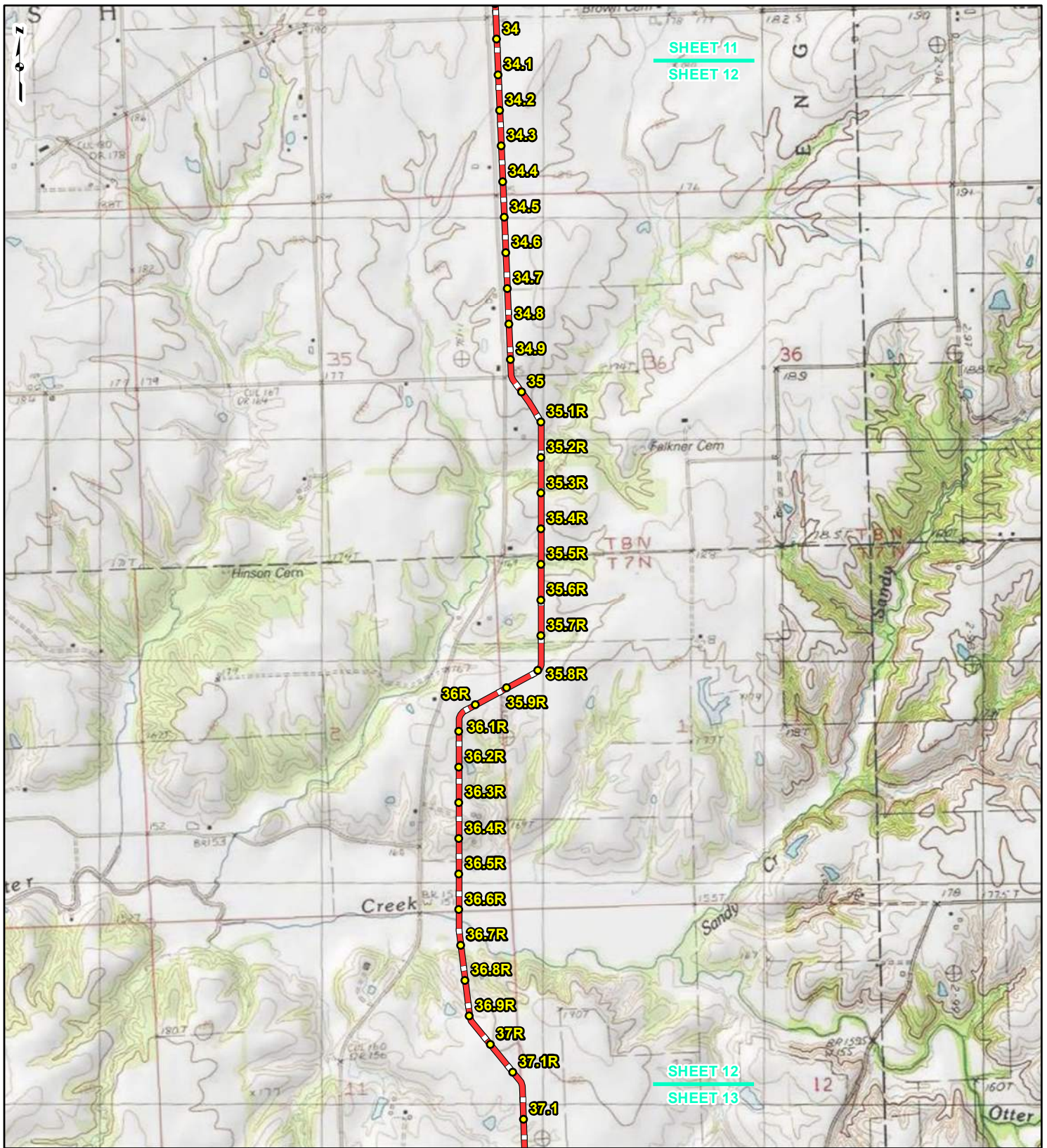
**FIGURE 1
LOCATION MAP
SHEET 11 OF 21**

**SPIRE STL
PIPELINE
PROJECT**



DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), EL SAH (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 03/2017.



SHEET 11
SHEET 12

SHEET 12
SHEET 13



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

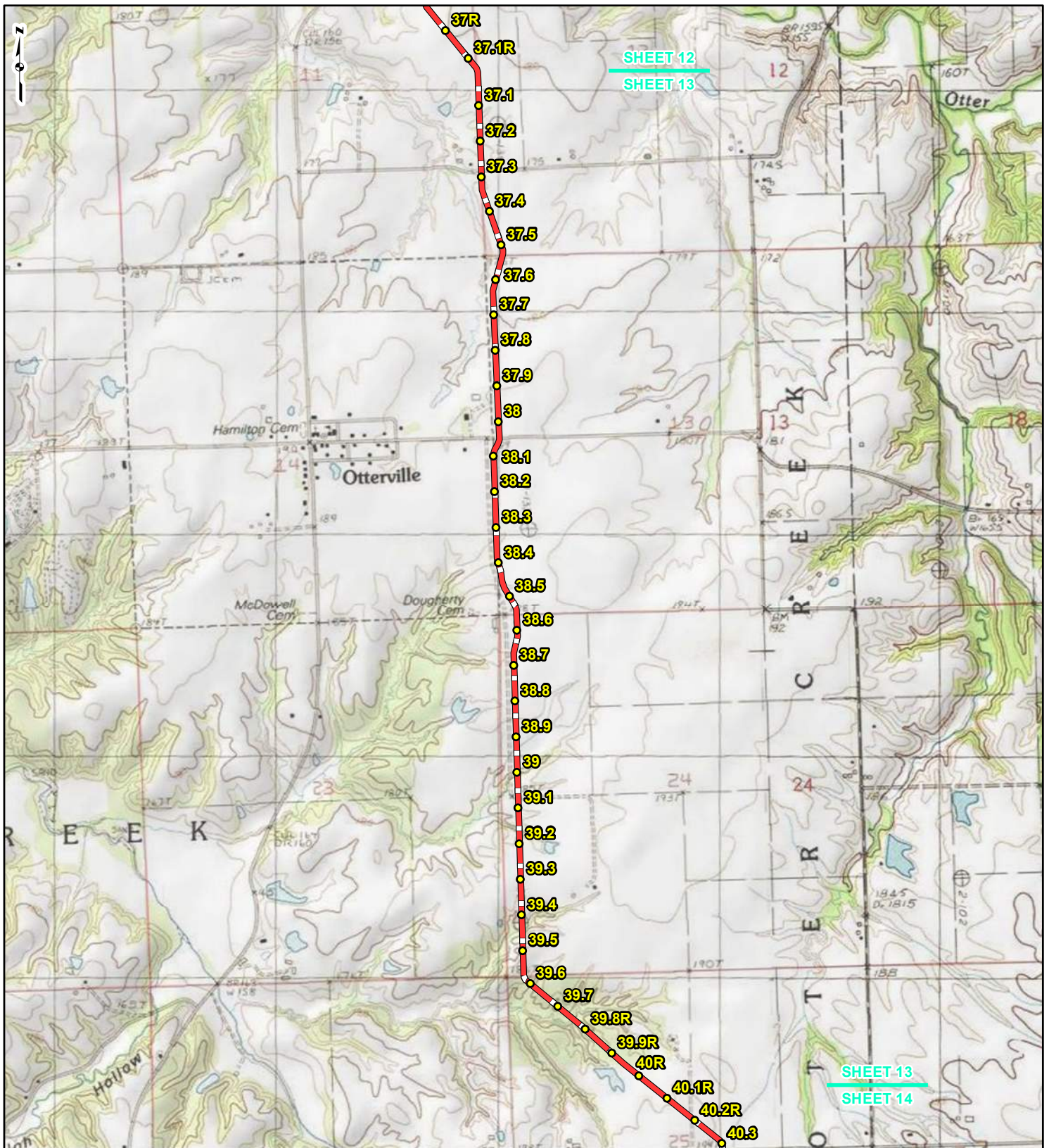
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 12 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

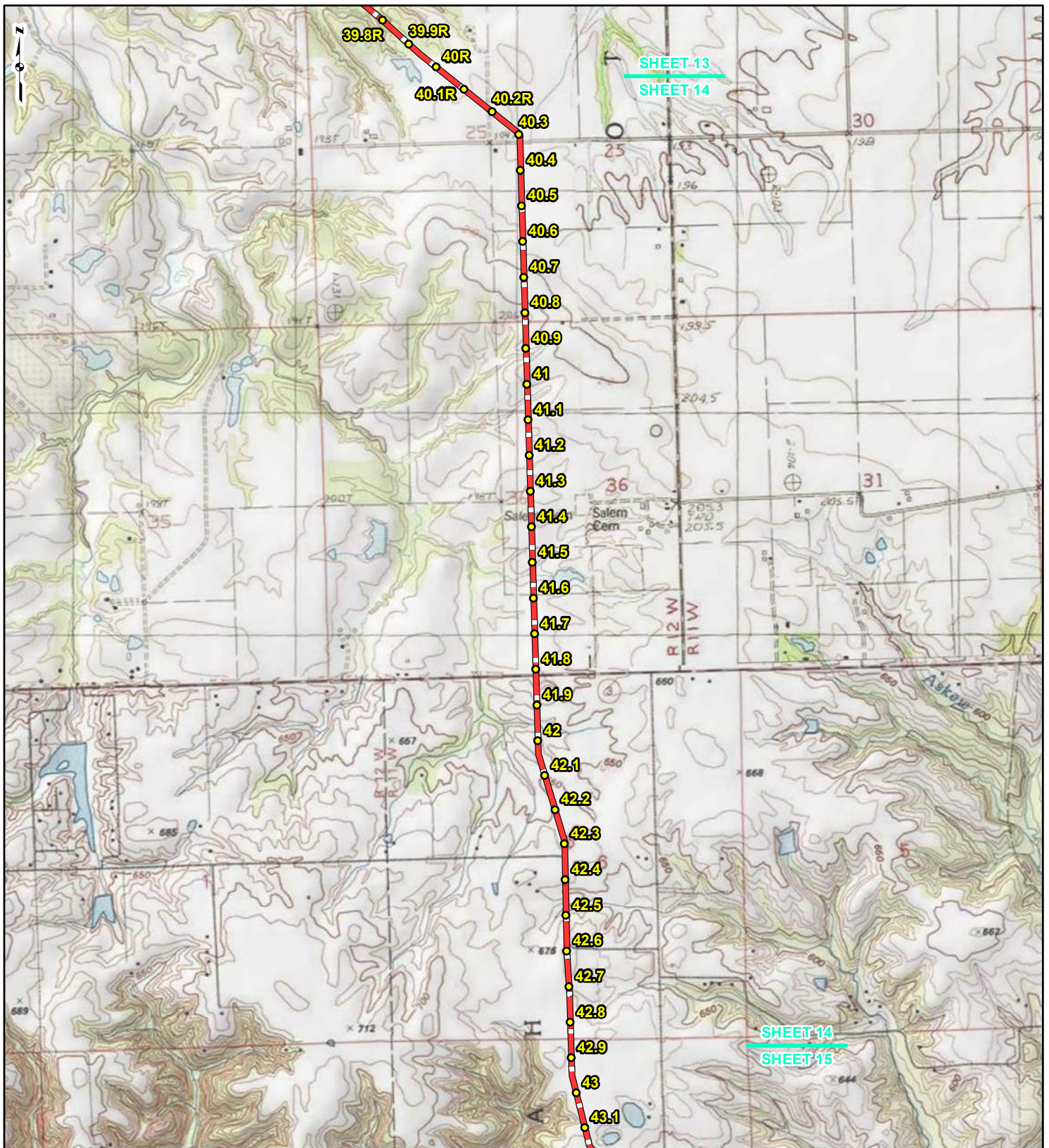
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 13 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

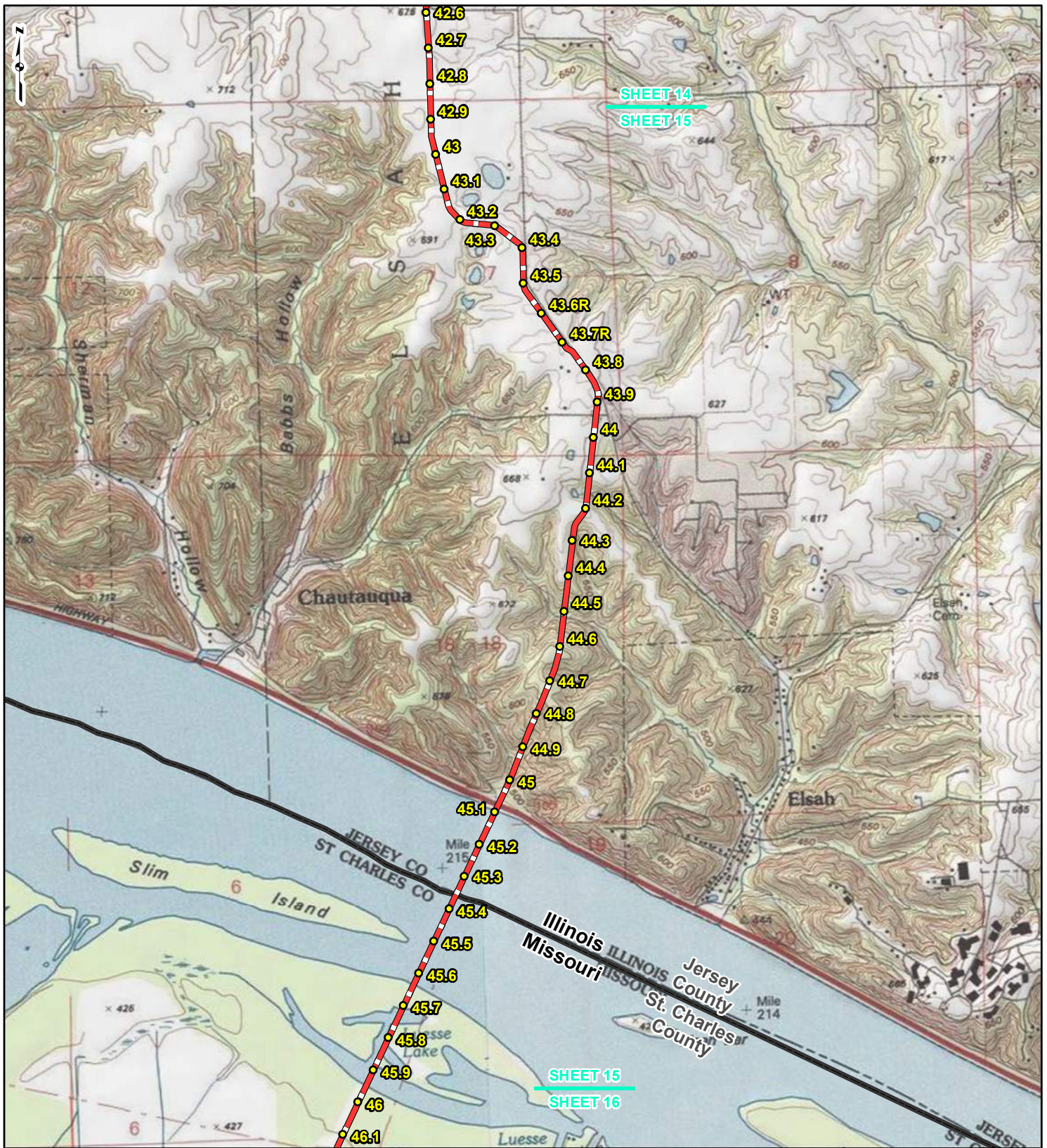
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 14 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE MILEPOST
- NORTH COUNTY EXTENSION MILEPOST
- 24-INCH PIPELINE
- NORTH COUNTY EXTENSION
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

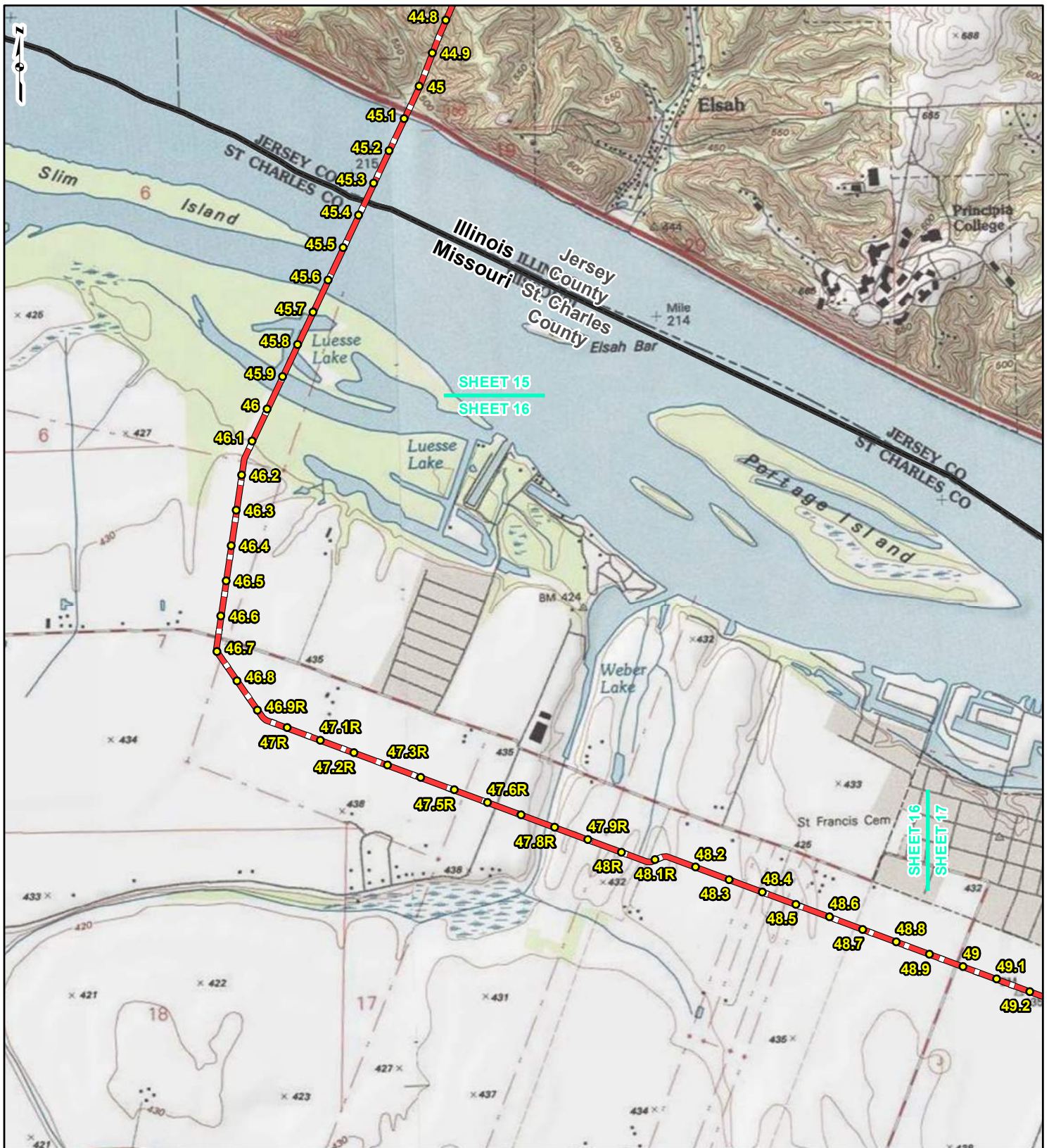
FIGURE 1
LOCATION MAP
SHEET 15 OF 21

SPIRE STL PIPELINE PROJECT

gai consultants **spire**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



SHEET 15
SHEET 16

SHEET 16
SHEET 17



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE MILEPOST
- NORTH COUNTY EXTENSION MILEPOST
- 24-INCH PIPELINE NORTH COUNTY
- EXTENSION
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

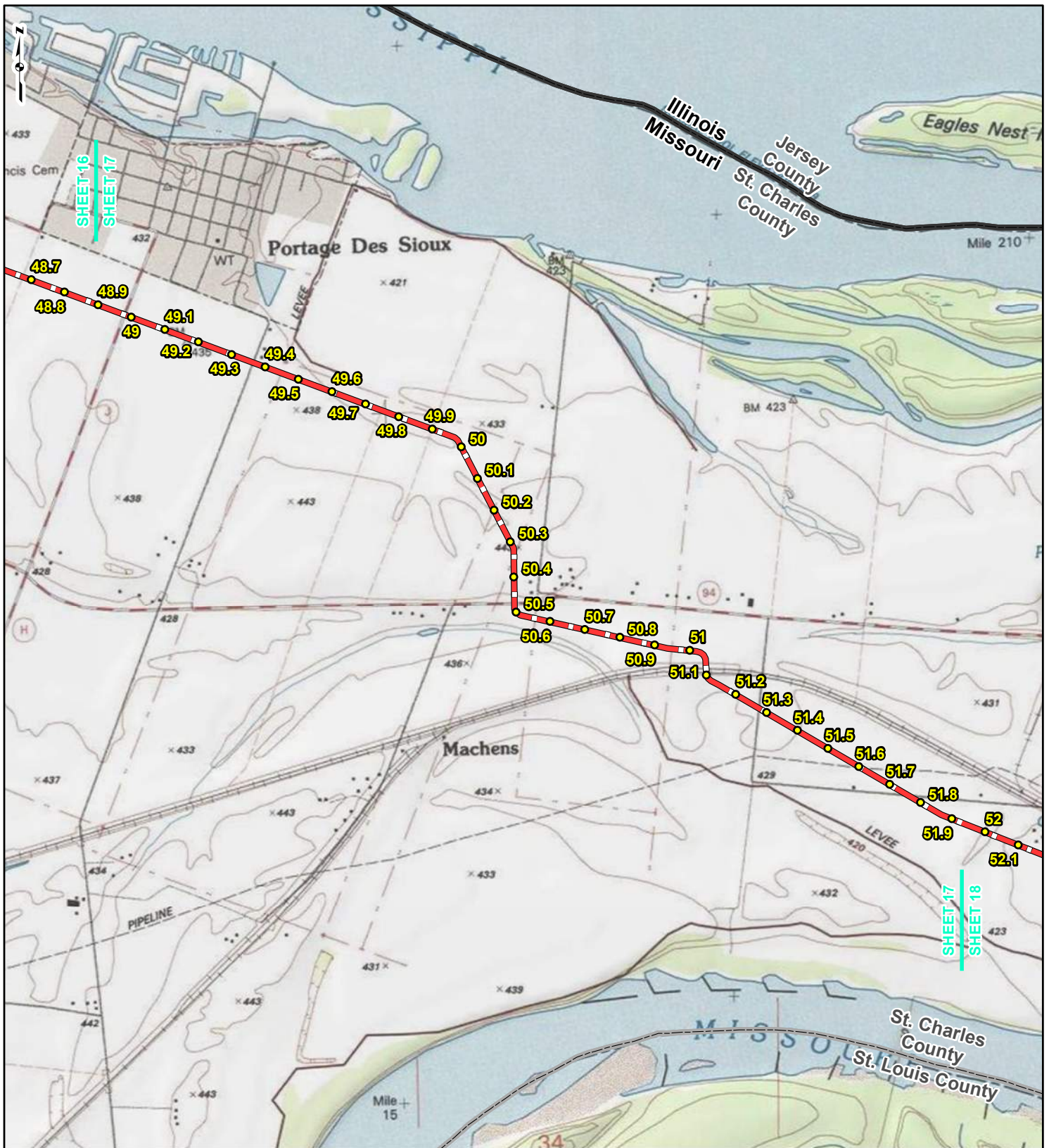
FIGURE 1
LOCATION MAP
SHEET 16 OF 21

SPIRE STL PIPELINE PROJECT

gai consultants **spire**

DRAWN BY: PMH DATE: 3/28/2017
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
● NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

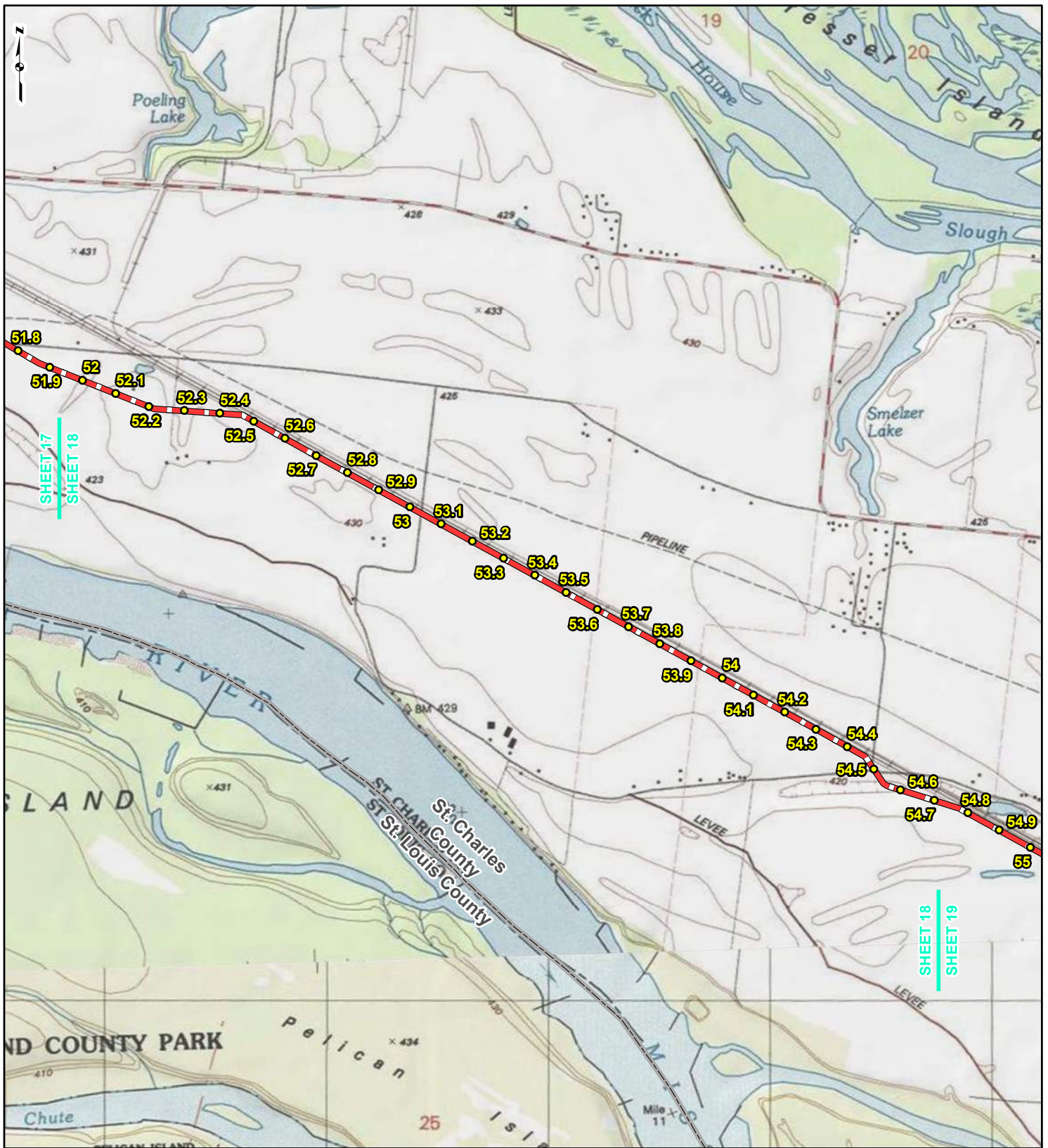
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 17 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
● STATE BOUNDARY	▭ STATE BOUNDARY

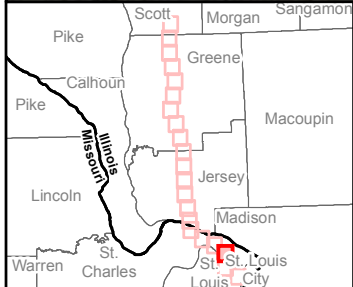
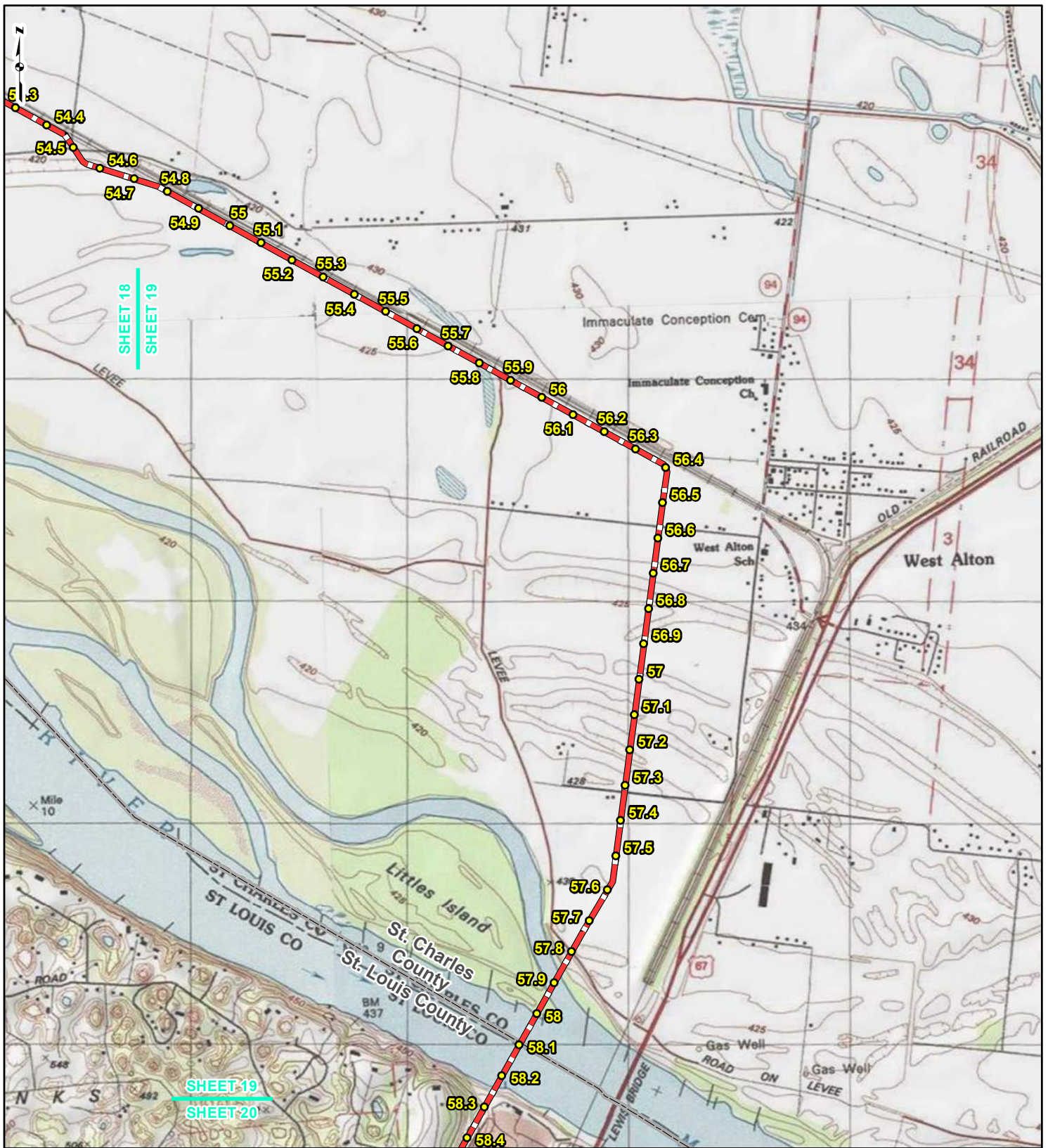
0 1,000 2,000 4,000
Feet

**FIGURE 1
LOCATION MAP
SHEET 18 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
● NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

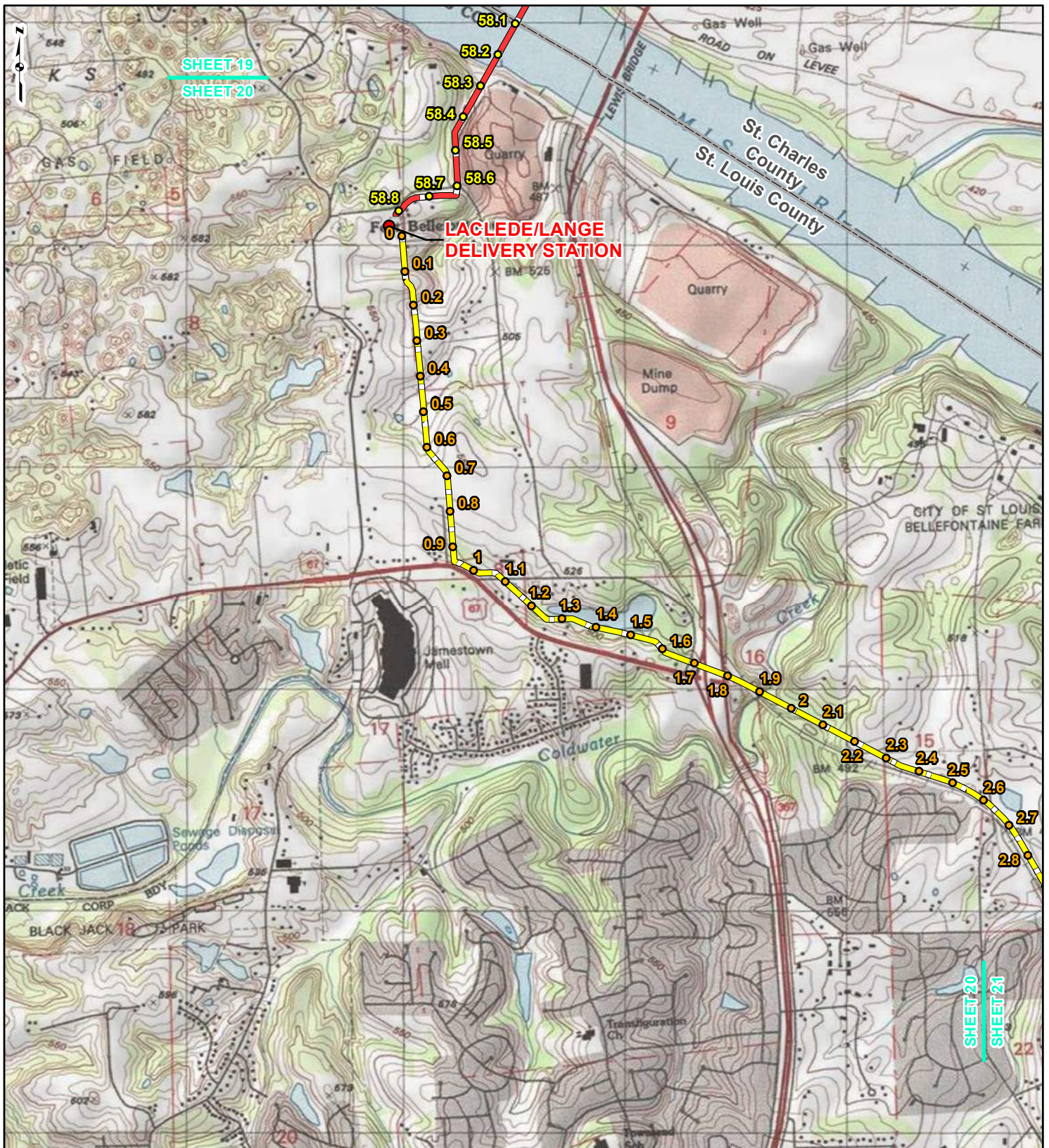
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 19 OF 21

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



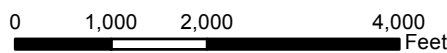
SHEET 19
SHEET 20

SHEET 20
SHEET 21

**LACLEDE/LANGE
DELIVERY STATION**

LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE MILEPOST
- NORTH COUNTY EXTENSION MILEPOST
- 24-INCH PIPELINE NORTH COUNTY
- 24-INCH PIPELINE EXTENSION
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY



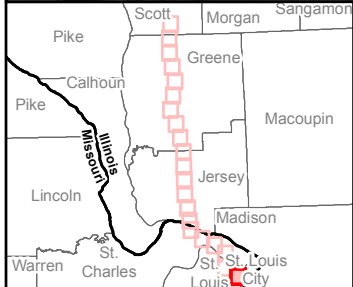
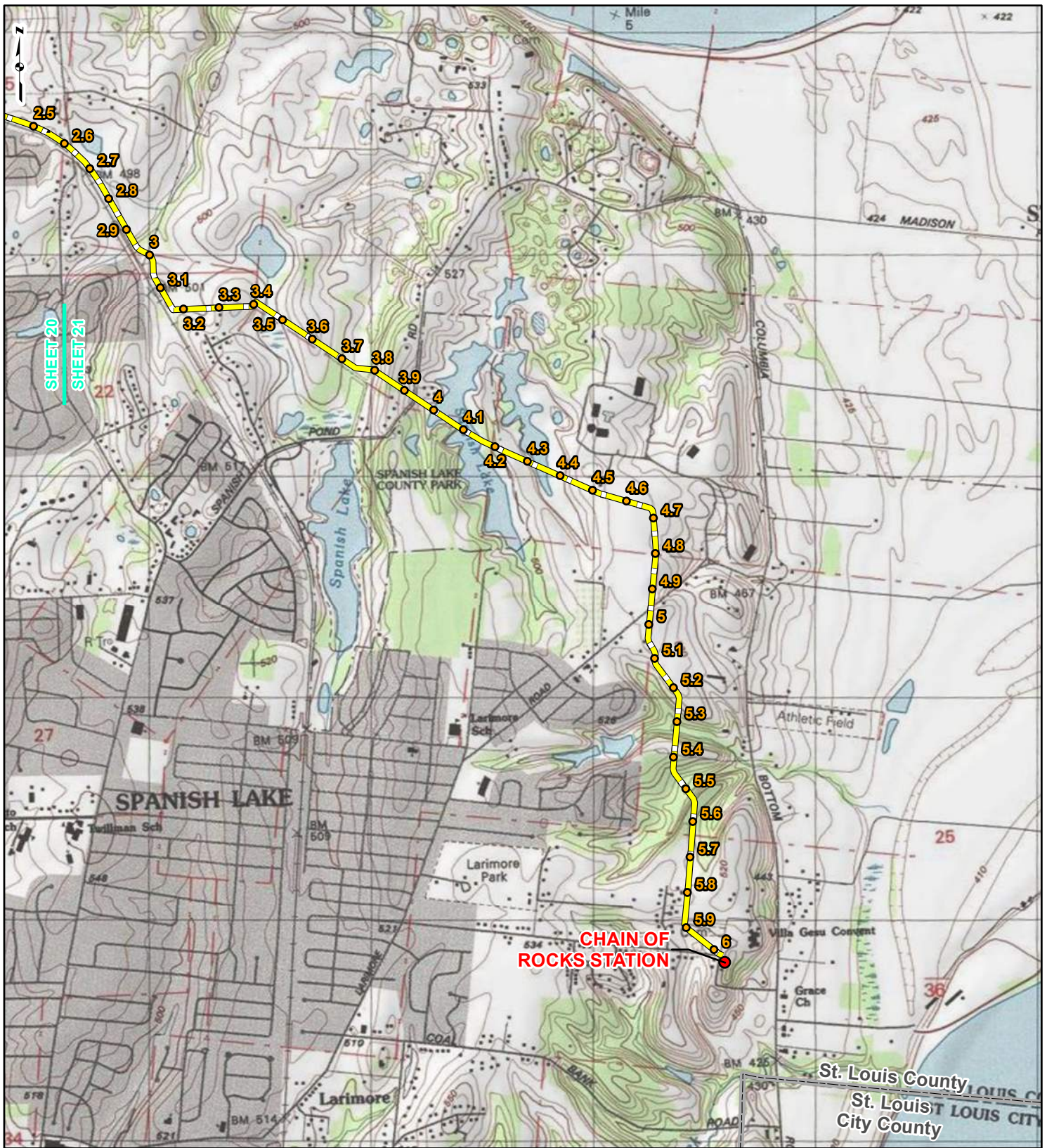
**FIGURE 1
LOCATION MAP
SHEET 20 OF 21**

**SPIRE STL
PIPELINE
PROJECT**



DRAWN BY: PMH DATE: 3/28/2017
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
● NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 21 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.

Ali Trunzo

From: DNR.CREP <DNR.CREP@Illinois.gov>
Sent: Friday, March 24, 2017 10:23 AM
To: Ali Trunzo; DNR.CREP
Cc: Lori Ferry
Subject: RE: Spire STL Pipeline - CREP easements

Ali,
Thank you for your continued coordination with IDNR. We have reviewed your updated route and verified that the construction will not interfere with any land currently under a CREP easement.
All the best,

Robert Bedient
Administrative Assistant
Conservation Reserve Enhancement Program
Illinois Department of Natural Resources
1 Natural Resources Way
Springfield, IL 62702
(217) 557-6525



From: Ali Trunzo [mailto:A.Trunzo@gaiconsultants.com]
Sent: Thursday, March 23, 2017 4:08 PM
To: DNR.CREP
Cc: Lori Ferry
Subject: [External] Spire STL Pipeline - CREP easements

Hello,

GAI, on behalf of Spire STL Pipeline LLC (Spire), previously coordinated with your office regarding CREP parcels that may be crossed by or in close proximity to the proposed Spire STL Pipeline Project, located in Scott, Greene and Jersey Counties, Illinois. There have been some minor route deviations proposed that are outside of the original 300-foot wide corridor that was reviewed.

Attached is a shapefile of a 300-foot wide review corridor of the proposed route (note that the construction right-of-way will typically be 90-feet wide, with 25-feet of additional temporary workspace in agricultural lands for topsoil segregation).

Our most recent coordination with your office is attached for your reference. Based on the map provided and the minor route changes proposed, we do not anticipate impacts to CREP lands. However, we would appreciate your review if new lands have been considered or approved within this corridor.

Thank you,

Ali

Ali Trunzo

From: Ali Trunzo
Sent: Friday, March 24, 2017 8:19 AM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline - CREP easements
Attachments: 12-6-16 CREP Email from R Bedient (PRIVILEGED).pdf; 300_Ft_Corridor_in_Illinois.prj; 300_Ft_Corridor_in_Illinois.sbn; 300_Ft_Corridor_in_Illinois.sbx; 300_Ft_Corridor_in_Illinois.shp; 300_Ft_Corridor_in_Illinois.shp.xml; 300_Ft_Corridor_in_Illinois.shx; 300_Ft_Corridor_in_Illinois.cpg; 300_Ft_Corridor_in_Illinois.dbf

From: Ali Trunzo
Sent: Thursday, March 23, 2017 5:08 PM
To: 'DNR.CREP@Illinois.gov' <DNR.CREP@Illinois.gov>
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: Spire STL Pipeline - CREP easements

Hello,

GAI, on behalf of Spire STL Pipeline LLC (Spire), previously coordinated with your office regarding CREP parcels that may be crossed by or in close proximity to the proposed Spire STL Pipeline Project, located in Scott, Greene and Jersey Counties, Illinois. There have been some minor route deviations proposed that are outside of the original 300-foot wide corridor that was reviewed.

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Our most recent coordination with your office is attached for your reference. Based on the map provided and the minor route changes proposed, we do not anticipate impacts to CREP lands. However, we would appreciate your review if new lands have been considered or approved within this corridor.

Thank you,

Ali

Alessandra M. Trunzo
Project Environmental Specialist

385 E. Waterfront Drive, Homestead, PA 15120-5005

Direct 412.399.5096 **Office** 412.476.2000 **Email** a.trunzo@gaiconsultants.com

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Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
www.dnr.illinois.gov

Bruce Rauner, Governor
Wayne A. Rosenthal, Director

March 17, 2017

SUBJECT: Application for Permit No. S20170009
Pipeline Project
Mississippi River, Macoupin Creek, Apple Creek, Otter Creek
Scott County, Greene County, and Jersey County

Spire STL Pipeline LLC
700 Market Street
St. Louis, Missouri 63101

Gentlemen:

Thank you for the recent submittal of your January 24, 2017 application (enclosed) for an Illinois Department of Natural Resources, Office of Water Resources (IDNR/OWR) permit to construct a pipeline in Scott County, Greene County, and Jersey County.

From our review of the submitted information, it was found that portions of the project are located within the floodplains of IDNR/OWR jurisdictional waterways. These jurisdictional waterways have drainage areas greater than one square mile in an urban area, or ten square miles in a rural area.

After and based on multiple correspondences with your agents, GAI Consultants, Inc., it appears the proposed project would be allowable under IDNR/OWR Statewide Permit Nos. 6, 8, and 13 (view at <https://www.dnr.illinois.gov/WaterResources/Pages/PermitsStatewideRegionalGeneral.aspx>). Please review these statewide permits to confirm whether your work will meet the terms and conditions of the permits. If any current aspects of the proposed project or changes are made to the proposed project related to IDNR/OWR's jurisdiction and do not meet the special conditions of the statewide permits, please inform us of the differences and we will continue with the formal permit process. If the proposed project meets the special conditions of the statewide permits, no further IDNR/OWR authorization is required.

This permit does not supersede any other federal, state or local authorizations that may be required for the project.

Spire STL Pipeline LLC
March 17, 2017
Page 2

Please feel free to contact Jesse Tinch at 217/782-4545 if you have any questions or comments concerning this matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Altman', with a long horizontal flourish extending to the right.

Stephen C. Altman, P.E., CFM
Chief, Downstate Regulatory Programs Section

SCA:JST:cjp

Enclosure

cc: GAI Consultants, Inc. (Lori Ferry)
GAI Consultants, Inc. (Todd Wheaton)
GAI Consultants, Inc. (Jayme Fuller)
Scott County Assessment Office (Lorrie Koch)
Greene County Supervisor of Assessments (Jill Waldheuser)
Jersey County Code Administrator (Cindy Cregmiles)
IEPA, Div. of Water Pollution Control, Permit Section
USACE, St. Louis District (Regulatory Branch)

JOINT APPLICATION FORM FOR ILLINOIS

ITEMS 1 AND 2 FOR AGENCY USE

1. Application Number <div style="font-size: 24pt; font-family: cursive;">520170009</div>	2. Date Received <div style="font-size: 24pt; font-family: cursive;">January 30, 2017</div>
--	--

3. and 4. (SEE SPECIAL INSTRUCTIONS) NAME, MAILING ADDRESS AND TELEPHONE NUMBERS		
3a. Applicant's Name Company Name (if any): Spire STL Pipeline LLC Address: 700 Market Street, St. Louis, MO 63101 Email Address: Castor.Armesto@spireenergy.com	3b. Co-Applicant/Property Owner Name (if needed or if different from applicant) Company Name (if any) Address Email Address	4. Authorized Agent (an agent is not required) Company Name (if any): GAI Consultants, Inc Address: 1444 Farnsworth Ave, Suite 303 Aurora, IL, 60505 Email Address: L.Ferry@gaiconsultants.com
Applicant's Phone Nos. w/area code Business: 314-342-3326 Residence: Cell: Fax:	Applicant's Phone Nos. w/area code Business: Residence: Cell: Fax:	Agent's Phone Nos. w/area code Business: 331-301-2002 Residence: Cell: Fax:

STATEMENT OF AUTHORIZATION

I hereby authorize, GAI Consultants, Inc to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

Castor J. Armesto, General Counsel

Applicant's Signature

1/24/17

Date

5. ADJOINING PROPERTY OWNERS (Upstream and Downstream of the water body and within Visual Reach of Project)

Name	Mailing Address	Phone No. w/area code
a.		
b.		
c.		
d.		

6. PROJECT TITLE: Spire STL Pipeline Project

7. PROJECT LOCATION: Scott, Greene, and Jersey Counties, IL, and St. Charles and St. Louis Counties, MO. Approximately from Aley, IL to St. Louis, MO (Spanish Lake).

LATITUDE: 39.164251 (midpoint of Project) LONGITUDE: -90.388330 (midpoint of Project)	UTM's Northing: 14236745.936 Easting: 2380429.384										
STREET, ROAD, OR OTHER DESCRIPTIVE LOCATION: N/A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">LEGAL DESCRIPT</th> <th style="width: 15%;">QUARTER</th> <th style="width: 15%;">SECTION</th> <th style="width: 25%;">TOWNSHIP NO.</th> <th style="width: 30%;">RANGE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	LEGAL DESCRIPT	QUARTER	SECTION	TOWNSHIP NO.	RANGE					
LEGAL DESCRIPT	QUARTER	SECTION	TOWNSHIP NO.	RANGE							
IN OR <input checked="" type="checkbox"/> NEAR CITY OF TOWN (check appropriate box) Municipality Name: Aley, IL; White Hall, IL; Carrollton, IL; Otterville, IL; and Eisah, IL	WATERWAY Mississippi River and its Tributaries										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">COUNTY</th> <th style="width: 25%;">STATE</th> <th style="width: 50%;">ZIP CODE</th> </tr> <tr> <td>Scott, Greene, and Jersey (IL), St. Charles and St. Louis (MO)</td> <td>Illinois/Missouri</td> <td>N/A</td> </tr> </table>	COUNTY	STATE	ZIP CODE	Scott, Greene, and Jersey (IL), St. Charles and St. Louis (MO)	Illinois/Missouri	N/A	RIVER MILE (if applicable)				
COUNTY	STATE	ZIP CODE									
Scott, Greene, and Jersey (IL), St. Charles and St. Louis (MO)	Illinois/Missouri	N/A									

Revised 2011

- Corps of Engineers
 IL Dept of Natural Resources
 IL Environmental Protection
 Applicant's Copy

To: Spire STL Pipeline LLC

8. PROJECT DESCRIPTION (Include all features):

The Spire STL Pipeline Project (Project) consists of the installation of approximately 59 miles of new 24-inch diameter steel natural gas transmission pipeline, upgrades along approximately 7.1 miles of existing 20-inch diameter pipeline known as Line 880, four mainline valve facilities, and four metering and regulation (M&R) facilities in Scott, Greene, and Jersey Counties, Illinois (IL), and St. Charles and St. Louis Counties, Missouri (MO). The proposed Project includes crossings along the Mississippi River, which is a Section 10 traditionally navigable water.

9. PURPOSE AND NEED OF PROJECT:

The Project is designed to provide approximately 400,000 Dth/d of year-round transportation service from an interconnect with the Rockies Express Pipeline (REX) in Scott County, Illinois to markets in the St. Louis metropolitan area, eastern Missouri and southwestern Illinois. Its purpose is to provide additional firm interstate pipeline capacity and access to additional supply basins to serve homes and businesses in the St. Louis metropolitan area and surrounding counties. The Project will enhance reliability and supply security, and will reduce reliance upon older and less favorable natural gas pipelines and propane peak-shaving infrastructure.

COMPLETE THE FOLLOWING FOUR BLOCKS IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

10. REASON(S) FOR DISCHARGE:

Temporary impacts to 60 streams and 32 wetlands will be necessary to construct the pipeline and access roads associated with the Project. Impacted streams and wetlands will be crossed using the open-cut method. A dam and flume method of dewatering is installed to create a dry work area, the trenches are dug, the pipeline is placed, and the trench is refilled and the work area reclaimed. Additionally, temporary crossings of 20 streams and 14 wetlands located within the Project workspace will also be necessary during construction of the Project. Other aquatic resources, including the Mississippi River, will be crossed using a Horizontal Directional Drill (HDD) method. This method involves boring a tunnel beneath the aquatic resources through which the pipeline will be pulled and installed. No physical impacts to the aquatic resources are anticipated to occur with this construction method.

11. TYPE(S) OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS FOR WATERWAYS:

TYPE: See Section 3, Tables 1 and 2

AMOUNT IN CUBIC YARDS: See Section 3, Tables 1 and 2

12. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED (See instructions)

See Section 3, Tables 1 and 2

13. DESCRIPTION OF AVOIDANCE, MINIMIZATION AND COMPENSATION (See instructions)

Avoiding stream and wetland impacts has been one of the driving factors in designing the proposed Project, and the currently proposed alignment represents an alternative that reduces stream and wetland impacts to the furthest extent practicable, while still meeting the purpose and need of the Project. Spire intends to utilize mitigation banking programs in IL should the District Engineer determine that compensatory mitigation is required for proposed impacts. Further avoidance and minimization includes the narrowing of the Limit of Disturbance (LOD) to a 75-foot width at all resource crossings.

14. Date activity is proposed to commence: January 2018

Date activity is expected to be completed: November 2018

15. Is any portion of the activity for which authorization is sought now complete?
 Yes No
 Month and Year the activity was completed

Yes No

NOTE: If answer is "YES" give reasons in the Project Description and Remarks section. Indicate the existing work on drawings.

16. List all approvals or certification and denials received from other Federal, interstate, state, or local agencies for structures, construction, discharges or other activities described in this application.

<u>Issuing Agency</u>	<u>Type of Approval</u>	<u>Identification No.</u>	<u>Date of Application</u>	<u>Date of Approval</u>	<u>Date of Denial</u>
See Section 3, Table 3					

17. CONSENT TO ENTER PROPERTY LISTED IN PART 7 ABOVE IS HEREBY GRANTED.

Yes

No

18. APPLICATION VERIFICATION (SEE SPECIAL INSTRUCTIONS)

Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

Signature of Applicant or Authorized Agent

Costa J. Alvarado, General Counsel

Date

1/24/2017

Signature of Applicant or Authorized Agent

Date

Signature of Applicant or Authorized Agent

Date

Corps of Engineers Revised 2011

IL Dept of Natural Resources

IL Environmental Protection Agency

Applicant's Copy

SEE INSTRUCTIONS FOR ADDRESS

Ali Trunzo

From: Tinch, Jesse <Jesse.Tinch@illinois.gov>
Sent: Friday, March 17, 2017 12:51 PM
To: Todd Wheaton
Cc: Altman, Steve; Lori Ferry; Jayme Fuller; Ali Trunzo; Matt White
Subject: RE: Spire STL Pipeline Project - Statewide Permit 13

Todd,

Thank you for this information. A formal letter in which you are cc'd should be mailed out from our office in the next 1-2 business days.

Please let me know if you have any questions in the future.

Regards,
Jesse

Jesse Tinch, EIT
Permit Engineer
IDNR, Office of Water Resources
One Natural Resources Way
Springfield, IL 62702-1271
Tel: 217/782-4545
Jesse.Tinch@illinois.gov

From: Todd Wheaton [mailto:T.Wheaton@gaiconsultants.com]
Sent: Friday, March 17, 2017 11:03 AM
To: Tinch, Jesse
Cc: Altman, Steve; Lori Ferry; Jayme Fuller; Ali Trunzo; Matt White
Subject: [External] RE: Spire STL Pipeline Project - Statewide Permit 13

Hello Jesse,

We finally received some additional information from the project engineers regarding the gravel cover (Special condition 4) and temporary structures (Special Condition 5) that we discussed back in February.

Regarding Special Condition 4, the Placement of gravel will not exceed 6 inches in depth. In addition, any geotextile and gravel placed within a floodway will be removed within one construction season.

As it pertains to Special Condition 5, we have been informed that all flume crossings will be removed within 48-hours of installation. The environmental inspector and/or contractor on-site will monitor and document the flow conditions of the stream prior to installation. Additionally, weather conditions will be monitored to avoid installing the flume at times when significant precipitation is expected to occur. It is our belief that these steps will eliminate any concern of flooding or backup behind the structures, and are requesting your concurrence.

Please let us know if you have any follow up questions or need additional information and we will be happy to provide it.

Thanks,
Todd

Todd C. Wheaton

Ali Trunzo

From: Lori Ferry
Sent: Wednesday, March 08, 2017 11:06 AM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline Project: Flumed Crossings

From: Wojnas, Joseph E [mailto:Joseph.Wojnas@mottmac.com]
Sent: Tuesday, March 07, 2017 3:38 PM
To: Jesse.Tinch@illinois.gov
Cc: Todd Wheaton <T.Wheaton@gaiconsultants.com>; Lori Ferry <L.Ferry@gaiconsultants.com>; English, Russ A. <Russ.English@spireenergy.com>
Subject: Spire STL Pipeline Project: Flumed Crossings

Jesse,

Colleagues from GAI provided me your contact information. The firm I work for, Mott MacDonald, is the lead design firm for the Spire STL Pipeline Project. We were wondering if you would be available for a call on either Thursday or Friday to talk through the approach we were thinking of proposing for temporary stream crossings? Thank you in advance for your help.

Joe

Joseph E. Wojnas, PE
Vice President / Principal Project Manager

T +1 (413) 535 0135 T +1 (413) 315 2152
C +1 (413) 519 1136 F +1 (413) 535 0136
joseph.wojnas@mottmac.com



Mott MacDonald
134 Capital Drive
Suite D
West Springfield, MA
01089
United States of
America

[Website](#) | [Twitter](#) | [LinkedIn](#) | [Facebook](#) | [YouTube](#)

Ali Trunzo

From: Lori Ferry
Sent: Friday, March 03, 2017 4:14 PM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline Project

From: Todd Wheaton
Sent: Friday, March 03, 2017 3:13 PM
To: Steve.altman@illinois.gov; Jesse.Tinch@illinois.gov
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>; Jayme Fuller <J.Fuller@gaiconsultants.com>
Subject: Spire STL Pipeline Project

Good Afternoon Steve,

I wanted to reach out to you regarding a joint permit application we submitted to your office on January 27, 2017, for the Spire STL Pipeline Project. We have had some correspondence with Jesse Tinch regarding the applicability of statewide permits, and are still waiting for a response from the project engineers regarding a couple conditions of Statewide permit #13. I wanted to follow up to see if there was any additional information you may need to complete your review for the project? Please let us know if there is anything your office may require in addition to the joint permit application materials we provided to assist in your review.

Thanks,
Todd

Todd C. Wheaton
Assistant Environmental Technical Leader

3720 Dressler Road NW, Canton, OH 44718
T 330.433.2680 **D** 234.203.0765 **M** 330.415.8364

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Ali Trunzo

From: Matt White
Sent: Thursday, March 02, 2017 9:27 AM
To: Tinch, Jesse
Cc: Altman, Steve; Lori Ferry; Ali Trunzo
Subject: RE: Spire STL Pipeline Project - IDNR Statewide Permit No. 8

Thanks Jesse.

As for statewide permit no. 13 and your communication with Todd I believe we are still working on this item and I will relay this message to him. We will be in touch at some point.

Thank you.

Matthew B. White, M.S.
D 317.436.4832 M 412.848.7283



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From: Tinch, Jesse [mailto:Jesse.Tinch@illinois.gov]
Sent: Wednesday, March 01, 2017 3:17 PM
To: Matt White <m.white@gaiconsultants.com>
Cc: Altman, Steve <Steve.Altman@illinois.gov>; Lori Ferry <L.Ferry@gaiconsultants.com>; Ali Trunzo <A.Trunzo@gaiconsultants.com>
Subject: RE: Spire STL Pipeline Project - IDNR Statewide Permit No. 8

Mr. White,

The Illinois Department of Natural Resources, Office of Water Resources (IDNR/OWR) concurs that you meet Special Condition No. 3 of IDNR/OWR Statewide Permit No. 8.

We are still awaiting a reply regarding the following, "If you agree to check the temporary work for its compliance to Statewide Permit No. 13 and inform us if the work does not comply, then please let me know and our office will be ready to send a formal determination letter regarding this project." This can be found within my email to Todd Wheaton dated February 9, 2017.

Thank you,

Jesse Tinch, EIT
Permit Engineer
IDNR, Office of Water Resources
One Natural Resources Way
Springfield, IL 62702-1271
Tel: 217/782-4545
Jesse.Tinch@illinois.gov

From: Matt White [mailto:m.white@gaiconsultants.com]
Sent: Wednesday, March 01, 2017 8:41 AM

telephone log



gai consultants

Date: 3/1/2017

Project / Admin. No.: E160438.00

Call From: Lori Ferry, Doug Sipe

Company: GAI Consultants, MDM

Phone No.: 630-605-5255

Call To: Jenny Skufca, Brent Krebs

Company: Illinois Department of Natural Resources

Phone No.:

Subject: Incidental Take Authorization

cc:

Summary of Discussion, Decisions, and Commitments:

Called IDNR to discuss the Incidental Take Process.

The purpose of the call was to follow up with the IDNR regarding the submittal of the Conservation Plan and subsequent Incidental Take Authorization (ITA) and the potential for the IDNR to issuance authorization of the without Spire potentially having an easement on certain properties under review as part of the ITA. IDNR indicated that they are more than willing to cooperate and want to be part of the process and not a hindrance. IDNR agreed that they could work through the process of incidental take (IT), but requested that they obtain legal opinion regarding whether they could issue a permit if Spire had not obtained an easement either through negotiations or eminent domain. The IDNR was open to potentially providing ITA and conditioning it based on Spire obtaining the necessary easements. This would also require legal opinion which the IDNR indicated they would follow up with Chris Young (IDNR) and get back with Spire.

Spire indicated that they are still attempting to work with the landowners where IT would be requested. However, it was likely that an easement would not be obtained prior to July 1 (the anticipated date of submittal of the Conservation Plan for Timber rattlesnake, northern long-eared bat and Indiana bat).

Additionally, Spire confirmed with IDNR that no additional timber rattlesnake surveys would be required regardless of whether Spire obtained permission to the necessary properties. The 2016 data supplied by the IDNR can be utilized to develop the Conservation Plan and has confirmed presence on the property.

Ali Trunzo

From: Tinch, Jesse <Jesse.Tinch@illinois.gov>
Sent: Wednesday, March 01, 2017 3:17 PM
To: Matt White
Cc: Altman, Steve; Lori Ferry; Ali Trunzo
Subject: RE: Spire STL Pipeline Project - IDNR Statewide Permit No. 8

Categories: Spire - Filed

Mr. White,

The Illinois Department of Natural Resources, Office of Water Resources (IDNR/OWR) concurs that you meet Special Condition No. 3 of IDNR/OWR Statewide Permit No. 8.

We are still awaiting a reply regarding the following, "If you agree to check the temporary work for its compliance to Statewide Permit No. 13 and inform us if the work does not comply, then please let me know and our office will be ready to send a formal determination letter regarding this project." This can be found within my email to Todd Wheaton dated February 9, 2017.

Thank you,

Jesse Tinch, EIT
Permit Engineer
IDNR, Office of Water Resources
One Natural Resources Way
Springfield, IL 62702-1271
Tel: 217/782-4545
Jesse.Tinch@illinois.gov

From: Matt White [mailto:m.white@gaiconsultants.com]
Sent: Wednesday, March 01, 2017 8:41 AM
To: Tinch, Jesse
Cc: Altman, Steve; Lori Ferry; Ali Trunzo
Subject: [External] RE: Spire STL Pipeline Project - IDNR Statewide Permit No. 8

Jesse,

Per our discussion attached is a map identifying the location of proposed mainline valves and metering and regulating stations which have the ability to shut-off gas flow. Only those valves located in Illinois and just across the state line into Missouri are shown on the provided maps. The facilities located in Missouri would have the same capabilities as those located in Illinois. The statement below provides additional information on the design and capabilities of the mainline valves and metering and regulating stations.

As part of Spire's measures to protect the public, Spire will install sectionalizing block valves (i.e. mainline valves) along the proposed pipeline. The placement of each mainline valve is based on the USDOT Minimum Federal Safety Standards in 49 CFR §192 and are dependent on the type of Class location that the pipeline will be constructed in. Class locations are classifications based on population density in the vicinity of the pipeline which specify rigorous safety requirements for populated areas. Based on the location of the proposed pipeline, Spire has determined that two mainline valves will be installed on the 24-inch pipeline in Illinois and one in Missouri, approximately 15 miles apart (approximate MP 15.7 and MP 34.7 in Illinois and MP 46.2 in Missouri). Additional mainline valves will be installed along the Line 880 portion of the Project as well, which is located in Missouri. These mainline valves will have the capability to shutdown the flow of

Ali Trunzo

From: Matt White
Sent: Wednesday, March 01, 2017 9:41 AM
To: Tinch, Jesse
Cc: Altman, Steve; Lori Ferry; Ali Trunzo
Subject: RE: Spire STL Pipeline Project - IDNR Statewide Permit No. 8
Attachments: Facilities_Location_Map_2017_02_28.pdf

Jesse,

Per our discussion attached is a map identifying the location of proposed mainline valves and metering and regulating stations which have the ability to shut-off gas flow. Only those valves located in Illinois and just across the state line into Missouri are shown on the provided maps. The facilities located in Missouri would have the same capabilities as those located in Illinois. The statement below provides additional information on the design and capabilities of the mainline valves and metering and regulating stations.

As part of Spire's measures to protect the public, Spire will install sectionalizing block valves (i.e. mainline valves) along the proposed pipeline. The placement of each mainline valve is based on the USDOT Minimum Federal Safety Standards in 49 CFR §192 and are dependent on the type of Class location that the pipeline will be constructed in. Class locations are classifications based on population density in the vicinity of the pipeline which specify rigorous safety requirements for populated areas. Based on the location of the proposed pipeline, Spire has determined that two mainline valves will be installed on the 24-inch pipeline in Illinois and one in Missouri, approximately 15 miles apart (approximate MP 15.7 and MP 34.7 in Illinois and MP 46.2 in Missouri). Additional mainline valves will be installed along the Line 880 portion of the Project as well, which is located in Missouri. These mainline valves will have the capability to shutdown the flow of gas in the pipeline remotely or manually. In addition, each proposed metering and regulating station which will be built (one station to be built in Illinois at MP 0.0, REX Receipt Station and three stations in Missouri), will also have the capability to shutdown or isolate portions of gas flow in the pipeline. Federal regulations do not require valves to be placed at waterbody crossings for natural gas pipelines.

Based on our discussion and the description above, it is our understanding that we meet Special Condition #3 of IDNR Statewide Permit No. 8.

If you concur please respond indicating such.

Thank you for your guidance.

Matthew B. White, M.S.

D 317.436.4832 **M** 412.848.7283



ENGINEERING, PLANNING, AND ENVIRONMENTAL CONSULTING SINCE 1958

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From: Tinch, Jesse [mailto:Jesse.Tinch@illinois.gov]
Sent: Friday, February 17, 2017 12:33 PM
To: Matt White <m.white@gaiconsultants.com>
Cc: Altman, Steve <Steve.Altman@illinois.gov>
Subject: RE: Spire STL Pipeline Project - IDNR Statewide Permit No. 8

Matt,

Based on our conversation with IEPA, natural gas would fall under the definition of water pollution.

Thank you for checking with us.

Jesse Tinch, EIT
Permit Engineer
IDNR, Office of Water Resources
One Natural Resources Way
Springfield, IL 62702-1271
Tel: 217/782-4545
Jesse.Tinch@illinois.gov

From: Matt White [<mailto:m.white@gaiconsultants.com>]
Sent: Tuesday, February 14, 2017 3:04 PM
To: Tinch, Jesse
Cc: Lori Ferry; Jayme Fuller; Altman, Steve; Matt White
Subject: [External] Spire STL Pipeline Project - IDNR Statewide Permit No. 8

Jesse,

In reviewing the special conditions of IDNR Statewide Permit No. 8 we wanted to obtain clarification on whether a pipeline carrying natural gas is applicable under Special Condition #3 of said permit.

Special Condition #3 – A utility crossing carrying material which may cause water pollution as defined by the Environmental Protection Act, 415ILCS 5 (1996 State Bar Edition), shall be provided with shut-off valves on each side of the body of water to be crossed.

We appreciate your continued guidance.

Thank you.

Matthew B. White, M.S.
Assistant Environmental Manager

6420 Castleway West Drive, Indianapolis, IN 46250
T 317.570.6800 D 317.436.4832 M 412.848.7283

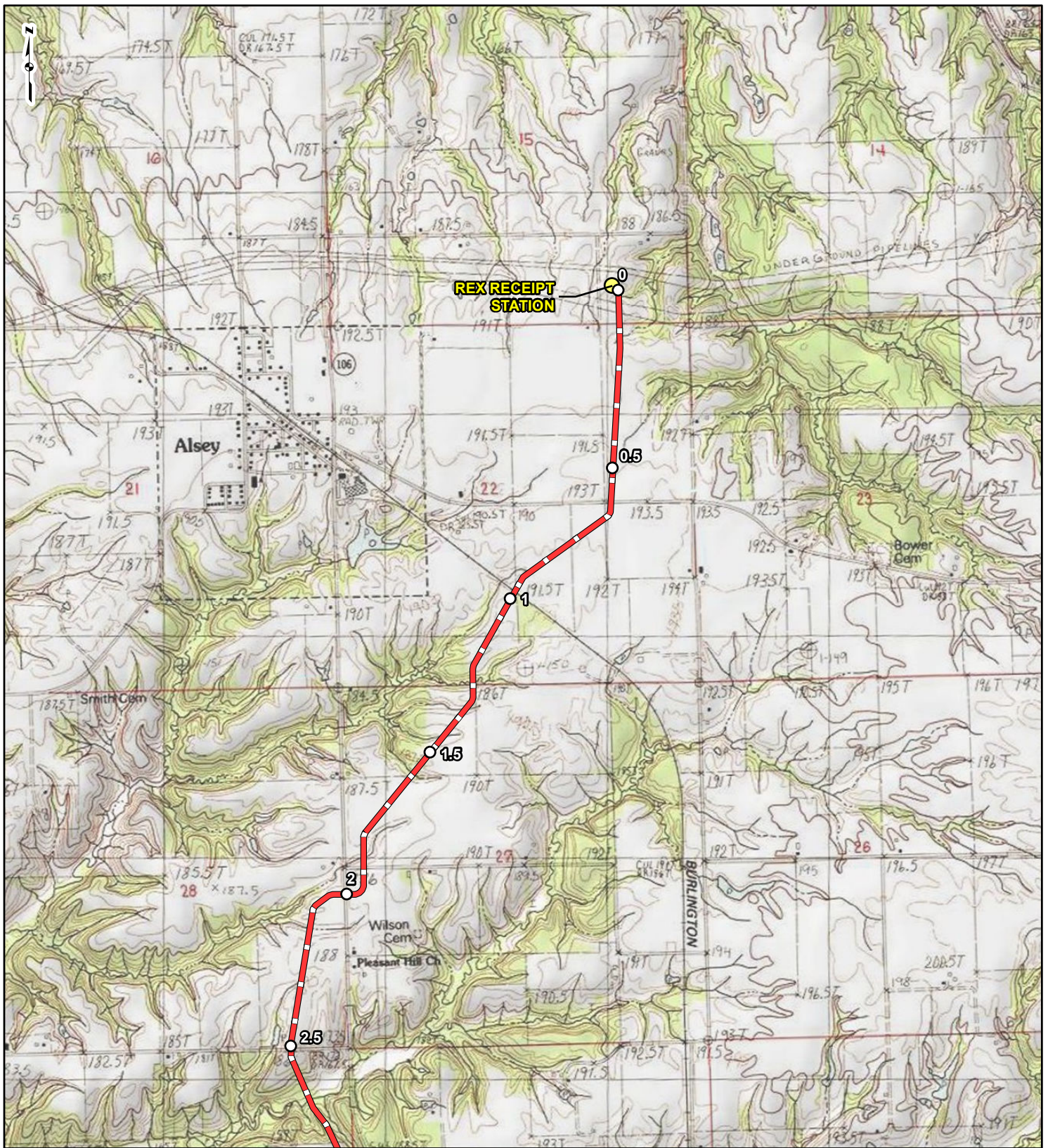
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LEGEND

○ MILEPOST	□ COUNTY BOUNDARY
● M&R STATION	□ STATE BOUNDARY
● MAINLINE VALVE	
— 24-INCH PIPELINE	

0 1,000 2,000 4,000
Feet

**M&R STATION AND
MAINLINE VALVE LOCATION MAP
SHEET 1 OF 4**

**SPIRE STL
PIPELINE
PROJECT**

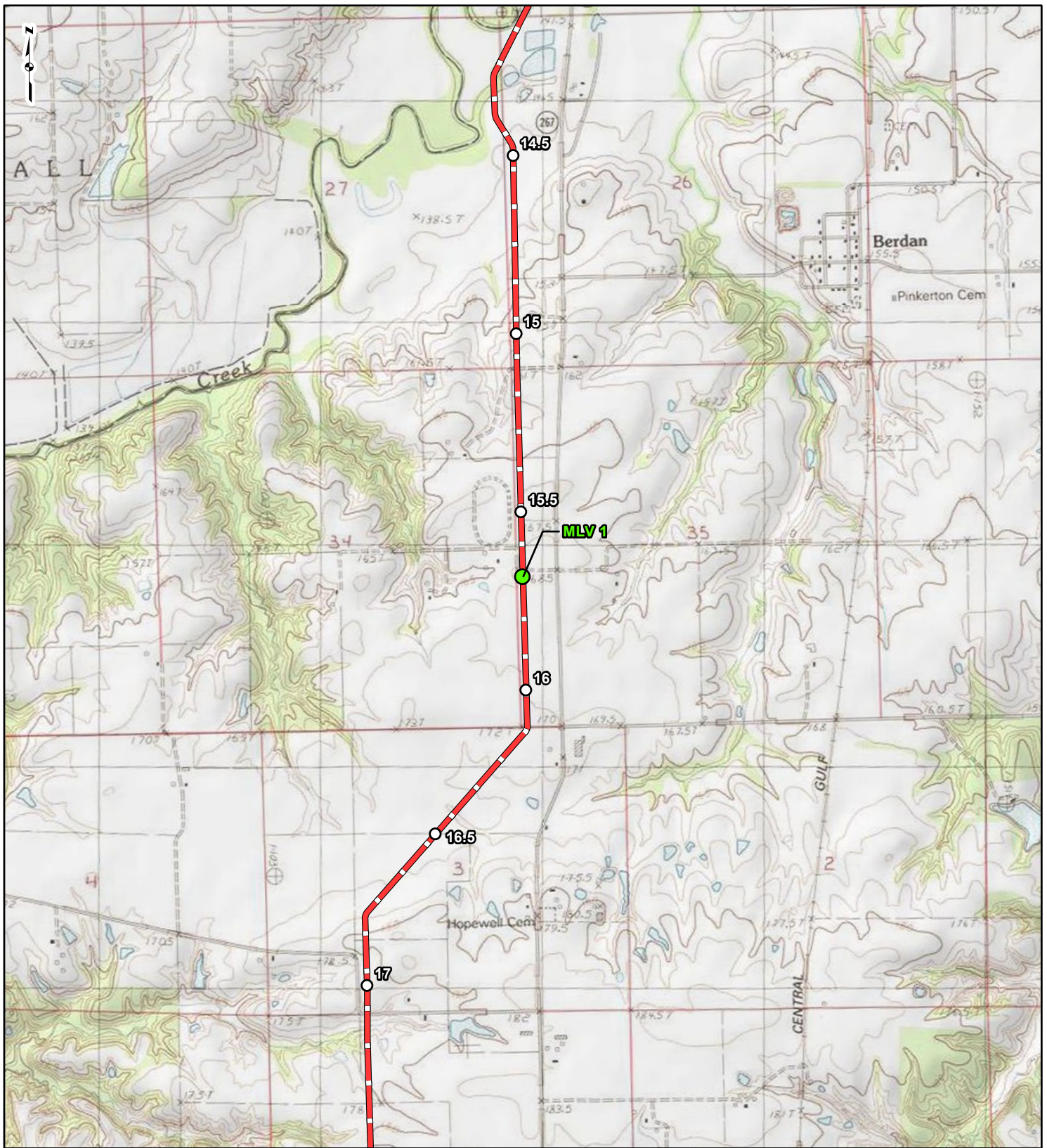
spire

gai consultants

DRAWN BY: PMH DATE: 2/28/2017
CHECKED: SWW APPROVED:

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 02/2017.

DRAFT



LEGEND

○ MILEPOST	▭ COUNTY BOUNDARY
● M&R STATION	▭ STATE BOUNDARY
● MAINLINE VALVE	
▬ 24-INCH PIPELINE	

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Feet

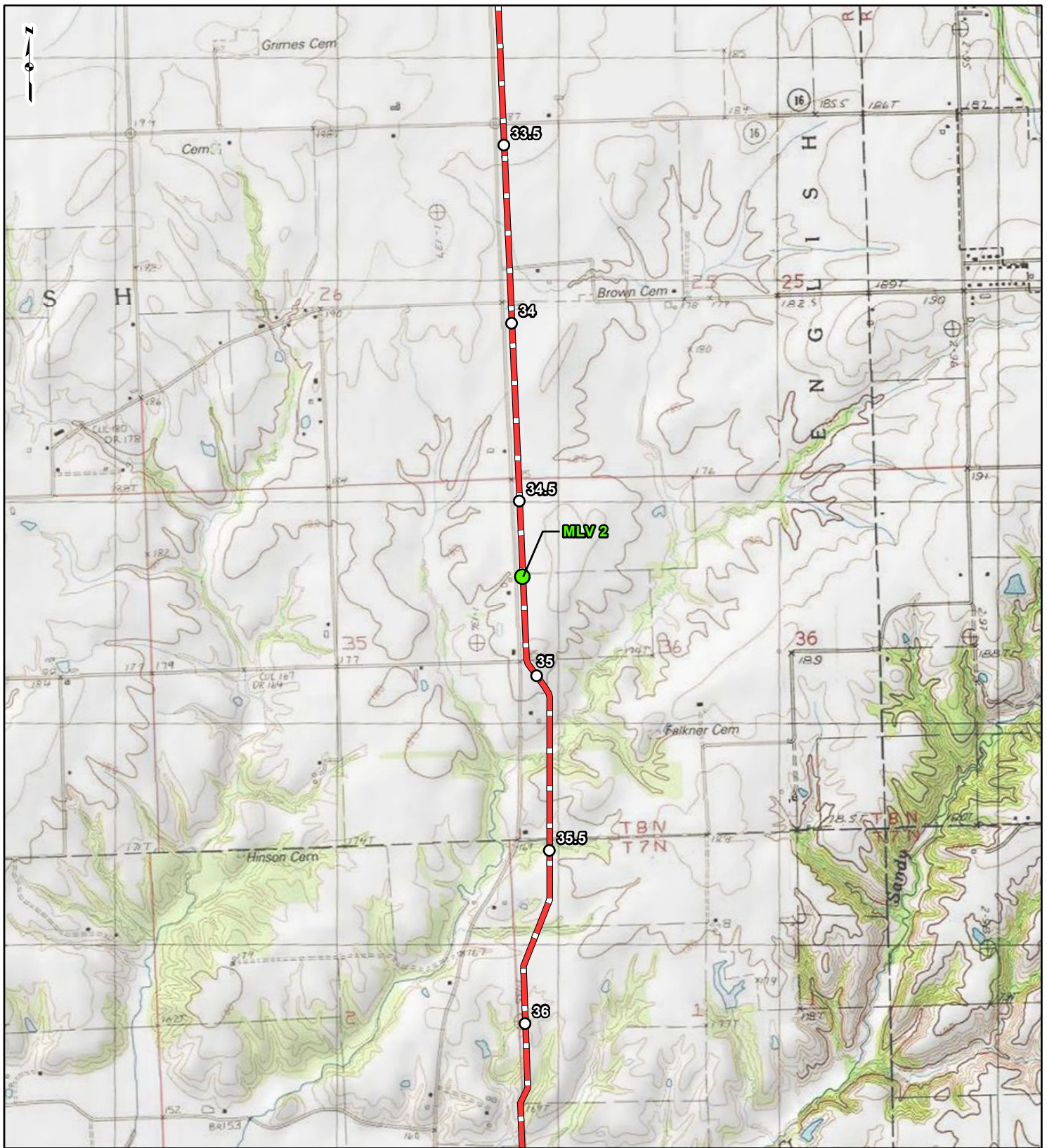
M&R STATION AND MAINLINE VALVE LOCATION MAP SHEET 2 OF 4

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 2/28/2017
 CHECKED: SWW APPROVED:

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 02/2017.

DRAFT



LEGEND

○ MILEPOST	▭ COUNTY BOUNDARY
● M&R STATION	▭ STATE BOUNDARY
● MAINLINE VALVE	
▬ 24-INCH PIPELINE	

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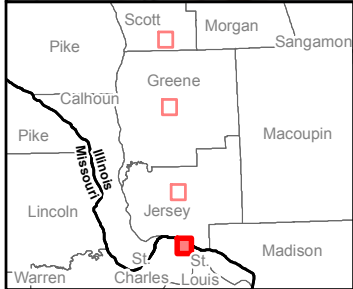
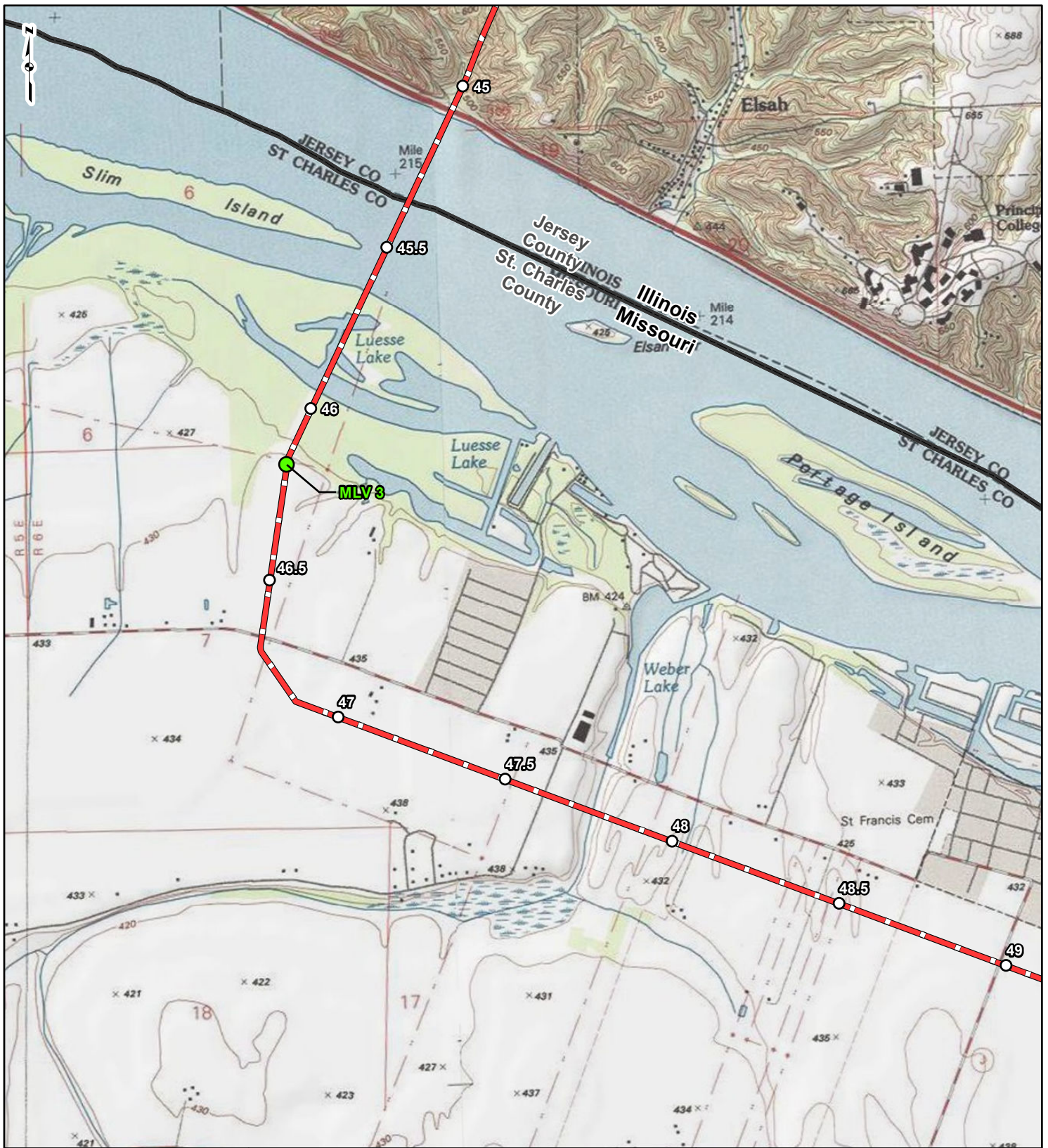
**M&R STATION AND
MAINLINE VALVE LOCATION MAP
SHEET 3 OF 4**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 2/28/2017
 CHECKED: SWW APPROVED:

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 02/2017.

DRAFT



LEGEND

○ MILEPOST	▭ COUNTY BOUNDARY
● M&R STATION	▭ STATE BOUNDARY
● MAINLINE VALVE	
▬ 24-INCH PIPELINE	

0 1,000 2,000 4,000
Feet

**M&R STATION AND
MAINLINE VALVE LOCATION MAP
SHEET 4 OF 4**



DRAWN BY: PMH DATE: 2/28/2017
 CHECKED: SWW APPROVED:

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 02/2017.

DRAFT

telephone log



gai consultants

Date: 2-21-2017

Project / Admin. No.: E160438.00

Call From: Matt White

Company: GAI Consultants

Phone No.: 317-436-4832

Call To: Jesse Tinch

Company: IDNR

Phone No.: 217-782-4545

Subject: Statewide permits and shutoff valves

cc:

Summary of Discussion, Decisions, and Commitments:

Jesse indicated that their regulations do not specify a distance for where the valves need to be placed in-relation to the waterbody crossing. To that end I indicated to him that there are 3 aboveground facilities being proposed in IL and that those facilities likely have the capability of shutting-off the flow of gas. If we send IDNR a map of these facilities and they do have the capability of shutting off the gas and cover all the stream crossings in IL the Project should meet the permit conditions, but would need to send to IDNR for review and confirmation.

Ali Trunzo

From: Matt White
Sent: Monday, February 20, 2017 10:10 AM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline Project - IDNR Statewide Permit No. 8

Matthew B. White, M.S.

D 317.436.4832 M 412.848.7283



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From: Matt White
Sent: Monday, February 20, 2017 9:31 AM
To: 'Tinch, Jesse' <Jesse.Tinch@illinois.gov>
Cc: Altman, Steve <Steve.Altman@illinois.gov>
Subject: RE: Spire STL Pipeline Project - IDNR Statewide Permit No. 8

Jesse,

Thanks for the response. The proposed Project design does not incorporate shut-off valves on either side of waterbody crossings. To that end I assume we need to apply for an individual permit, or could we provide information regarding proposed shut-off valves and safety and handle this without the formal submission of a permit?

Thank you,

Matthew B. White, M.S.

D 317.436.4832 M 412.848.7283



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From: Tinch, Jesse [<mailto:Jesse.Tinch@illinois.gov>]
Sent: Friday, February 17, 2017 12:33 PM
To: Matt White <m.white@gaiconsultants.com>
Cc: Altman, Steve <Steve.Altman@illinois.gov>
Subject: RE: Spire STL Pipeline Project - IDNR Statewide Permit No. 8

Matt,

Based on our conversation with IEPA, natural gas would fall under the definition of water pollution.

Thank you for checking with us.

Jesse Tinch, EIT

Permit Engineer
IDNR, Office of Water Resources
One Natural Resources Way
Springfield, IL 62702-1271
Tel: 217/782-4545
Jesse.Tinch@illinois.gov

From: Matt White [<mailto:m.white@gaiconsultants.com>]
Sent: Tuesday, February 14, 2017 3:04 PM
To: Tinch, Jesse
Cc: Lori Ferry; Jayme Fuller; Altman, Steve; Matt White
Subject: [External] Spire STL Pipeline Project - IDNR Statewide Permit No. 8

Jesse,

In reviewing the special conditions of IDNR Statewide Permit No. 8 we wanted to obtain clarification on whether a pipeline carrying natural gas is applicable under Special Condition #3 of said permit.

Special Condition #3 – A utility crossing carrying material which may cause water pollution as defined by the Environmental Protection Act, 415ILCS 5 (1996 State Bar Edition), shall be provided with shut-off valves on each side of the body of water to be crossed.

We appreciate your continued guidance.

Thank you.

Matthew B. White, M.S.
Assistant Environmental Manager

6420 Castleway West Drive, Indianapolis, IN 46250
T 317.570.6800 **D** 317.436.4832 **M** 412.848.7283

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Ali Trunzo

Subject: RE: Spire STL Pipeline Project

From: Todd Wheaton

Sent: Thursday, February 09, 2017 8:46 AM

To: Jesse.Tinch@illinois.gov

Cc: Ali Trunzo <A.Trunzo@gaiconsultants.com>; Jayme Fuller <J.Fuller@gaiconsultants.com>; Lori Ferry <L.Ferry@gaiconsultants.com>

Subject: RE: Spire STL Pipeline Project

Good Morning Jesse,

I am reaching out to you in response to an information request for the Spire STL Pipeline Project we received last week. I've included your original request below for reference. Please let me know if you have any additional questions or need further clarification.

1. Three aboveground facilities are located within the State of Illinois, none of which are located within a designated floodplain or floodway. Their locations are as follows: Rex Receipt Station (M&R Facility) 39.566098, -90.415567 (1-mile south of North Little Sandy Creek – Scott County); MLV 1 (Mainline Valve Facility) 39.352328, -90.413138 (1.3 –miles south of Apple Creek – Greene County); MLV 2 (Mainline Valve Facility) 39.116647, -90.388953 (3.2–miles north of Otter Creek –Jersey County).
2. The project involves the following work within jurisdictional bodies of water (drainage area > 1 sq. mile in urban areas or drainage area > 10 sq. miles in rural areas):

Open Cut – Apple Creek SIL-TMA-033

Workspace – Apple Creek SIL-TMA-034

Open Cut – Macoupin Creek SIL-TMA-039

Temporary Access Road – Otter Creek NHD-784

Open Cut – Otter Creek SIL-CDK-022

Directional Boring – Mississippi River

Workspace – Mississippi River

3.
 - a) A minimum of 5 feet of cover below the stream bed will be maintained at all stream crossings.
 - b) In regard to Statewide Permit #13, there are a couple questions we had regarding Special Conditions 4 and 5. The clarification would help in the determination of whether the condition would be met or if an additional permit would be necessary.
 - Special Condition 4 states: **“This permit does not authorize the placement or construction of any solid embankment or wall such as a dam, roadway, levee, or dike across any channel or floodway”**. Two temporary access roads are located within a designated floodplain. A small segment of TAR-009 is located within the Apple Creek floodplain, and the entirety of TAR-015 is located within the Otter Creek floodplain. Both of these temporary access roads are existing dirt roads. However, to accommodate construction traffic, these temporary access roads may require an application of a geotextile fabric and gravel which would be removed in its entirety following construction. Since no embankment is proposed to be constructed for the temporary access road we feel that this condition would be satisfied. Could you please confirm?

- Special Condition 5 states: **“No temporary structure shall be placed within any river or stream channel until a registered professional engineer determines and documents that the temporary structure will meet the requirements of Special Condition 3 of this statewide permit. Such documentation shall include, at a minimum, confirmation that no buildings or structures will be impacted by the backwater induced by the temporary structure.”** Most of the proposed stream crossings associated with the Project will be a dam and flume crossing (typical attached). We would like to request clarification as to whether each of these temporary structures would require a separate plan to be submitted for each, or if this type of structure was authorized therefore satisfying Special Condition 5?

Thanks,
Todd

Todd C. Wheaton

Assistant Environmental Technical Leader

3720 Dressler Road NW, Canton, OH 44718

T 330.433.2680 **D** 234.203.0765 **M** 330.415.8364

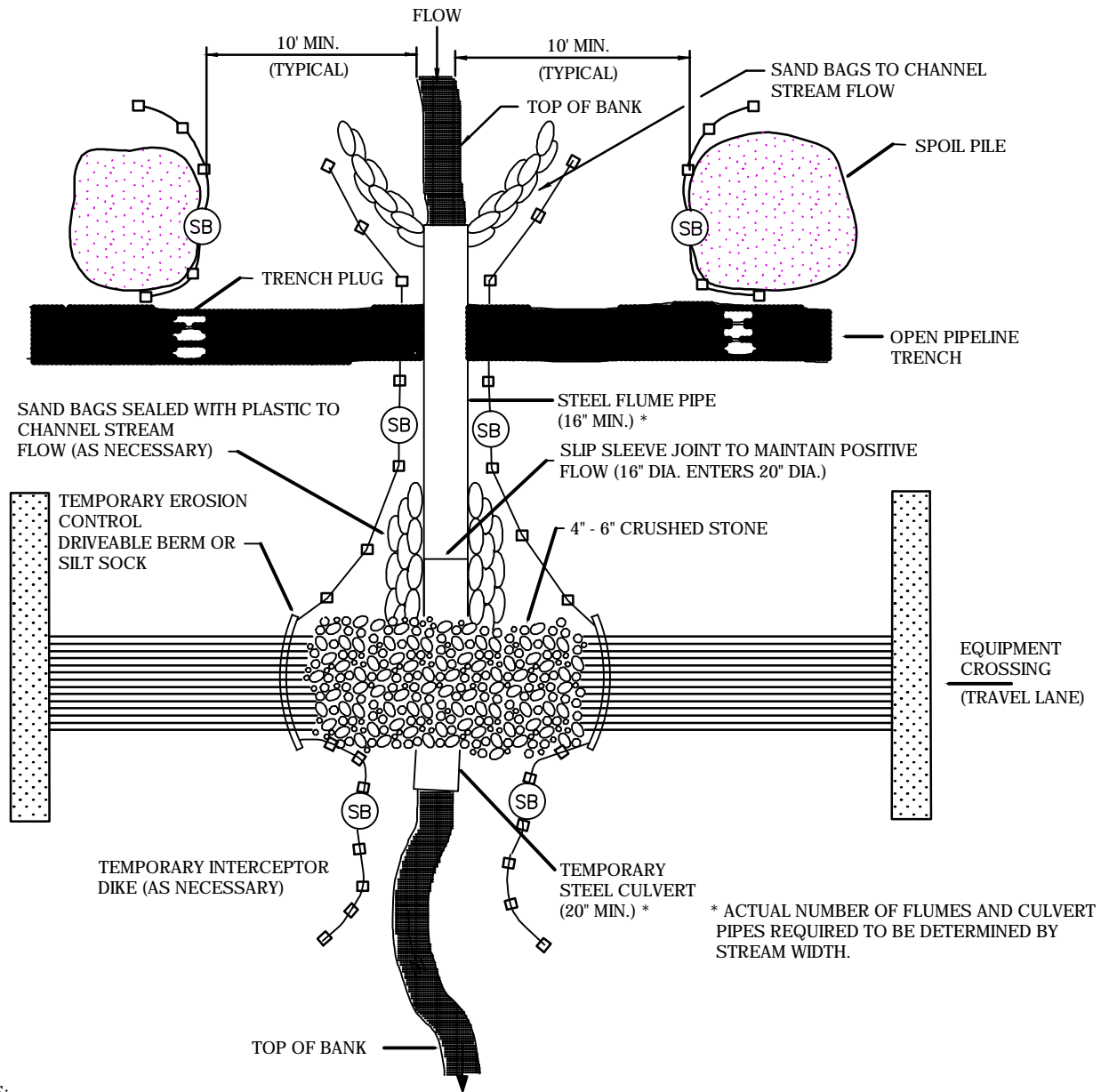
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NOTES:

1. (SB) TEMPORARY SEDIMENT BARRIER OF SILT FENCE, SILT SOCK AND/OR STRAW BALES.
2. SAND BAGS MUST BE FILLED WITH CLEAN SAND.
3. THE ENDS OF THE FLUME AND CULVERT MUST EXTEND TO AN UNDISTURBED AREA.
4. FLUME PIPE(S) MAY BE REMOVED IF NO WATER IS FLOWING AT THE TIME(S) OF CONSTRUCTION ACTIVITIES FOR EXCAVATION OF CONTINUOUS TRENCH AND SUBSEQUENT INSTALLATION/ LOWERING IN OF NEW PIPELINE SECTION(S). IF THERE IS A SUBSTANTIAL AMOUNT OF WATER FLOWING AT THE TIME OF CONSTRUCTION, ALTERNATE METHODS MAY BE EMPLOYED TO ACHIEVE A DRY CROSSING.
5. FLUME PIPE(S) MUST BE REPLACED AT THE END OF EACH WORKING DAY UNTIL BACKFILLING AND RESTORATION ARE COMPLETE. STREAM BOTTOM AND BANKS WILL BE RESTORED IN ACCORDANCE WITH THE FERC PROCEDURES.
6. TRENCH PLUGS WILL BE CONSTRUCTED AT TIME OF PIPE INSTALLATION

* ACTUAL NUMBER OF FLUMES AND CULVERT PIPES REQUIRED TO BE DETERMINED BY STREAM WIDTH.

ENG. RECORD		DATE
DRAWN BY:	MM	122016
DRAWING APPROVAL		
PROJECT APPROVAL		
SURVEY DATE:		
SCALE: N.T.S.		
PROJECT ID:		
FILE NAME:		

TYPICAL FLUMED CROSSING

FOR PROPOSED 24-INCH DIAMETER PIPELINE

DWG. NO. **TypicalFlumeCrossing**

NO	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
REVISIONS					

Ali Trunzo

From: Jayme Fuller
Sent: Monday, February 06, 2017 10:08 AM
To: Tinch, Jesse
Cc: Altman, Steve; Ali Trunzo; Lori Ferry
Subject: RE: Spire STL Pipeline Project

Hi Jesse,

Thank you so much for responding in such a timely manner. We plan to get you answers to these questions no later than the end of this week.

Jayme L. Fuller, Environmental Manager

GAI Consultants, Inc.

Charleston Office | 300 Summers Street, Suite 1100, Charleston WV 25301

Indianapolis Office | 6420 Castleway West, Indianapolis, IN 46250

1-234-203-0763 | C 614.499.6258 |     

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From: Tinch, Jesse [mailto:Jesse.Tinch@illinois.gov]
Sent: Friday, February 03, 2017 3:14 PM
To: Jayme Fuller <J.Fuller@gaiconsultants.com>
Cc: Altman, Steve <Steve.Altman@illinois.gov>
Subject: Spire STL Pipeline Project

Jayme Fuller,

After a cursory review of the Spire STL Pipeline Project, our office requests the following:

1. The location of the metering and regulating facilities in Illinois as we discussed in the conference call. We will need additional plan and profile drawings if the facility is located within the floodway of an IDNR, Office of Water Resources jurisdictional waterway, or floodplain if the floodway is not delineated.
2. It appears the project involves the following work within jurisdictional bodies of water (drainage area > 1 sq. mile in urban areas or drainage area > 10 sq. miles in rural areas):

Open Cut – Apple Creek SIL-TMA-033
Workspace – Apple Creek SIL-TMA-034
Open Cut – Macoupin Creek SIL-TMA-039
Temporary Access Road – Otter Creek NHD-784
Open Cut – Otter Creek SIL-CDK-022
Directional Boring – Mississippi River
Workspace – Mississippi River

- a) Please confirm (a short email statement would be sufficient) that the pipeline crossings of the above waterways will provide at least 3 feet of cover below the stream bed.

- b) Regarding the workspaces and temporary access roads, you will eventually be asked to review IDNR, Office of Water Resources' Statewide Permit No. 13 to determine whether they comply with its conditions. The Statewide Permit can be viewed at <https://www.dnr.illinois.gov/WaterResources/Pages/PermitsStatewideRegionalGeneral.aspx>. If you chose to review this now, you can inform our office if any of the conditions cannot be met for the workspaces and the temporary access road.

Sincerely,

Jesse Tinch, EIT
Permit Engineer
IDNR, Office of Water Resources
One Natural Resources Way
Springfield, IL 62702-1271
Tel: 217/782-4545
Jesse.Tinch@illinois.gov

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telephone log



gai consultants

Date: 2-1-17

Project / Admin. No.: E160438.00

Call From: Jenny Skufka

Company: Illinois Department of Natural Resources

Phone No.: 217-557-8243

Call To: Lori Ferry

Company: GAI Consultants

Phone No.: 630-605-5255

Subject: Spire STL Pipeline

cc:

Summary of Discussion, Decisions, and Commitments:

Ms. Jenny Skufka called to discuss the status of consultation on the Spire STL Pipeline in response to my voicemail left on 1-30-2017. Ms. Skufka indicated that the information she sent over regarding incidental take not being authorized on areas protected by the Nature Preserves Commission did not apply to the Principia Hills Natural Inventory Site or Natural Heritage Landmark that the project is crossing. Those sites do not have the same level of protection as the nature preserves and the land and water resource sites.

Ms. Skufka also wanted to review the schedule for the delivery of the incidental take authorization. I informed her we anticipated submitting a draft to her in March 2017 to review and would submit a final conservation plan in July 2017 after mist net surveys had been completed. She thought that schedule would work, but could not commit to a review period. She also raised concerns around submitting an incidental take authorization on a property that would not have an acquired easement for the Project if that were to be the case by the time the ITA was submitted (anticipated July 2017). I informed Ms. Skufka that Spire is still continuing to work with the landowner in the area of question but that the project authorizations would need to be moved forward in order to meet the construction schedule. Additionally, the conservation plan is developed for the species regardless of how the easements on the properties are obtained. Ms. Skufka was concerned about opening a public comment period (as required) for the incidental take authorization when the landowner had not fully agreed to the Project. I questioned whether the Conservation Plan could be conditioned to indicate that the authorization is valid only if FERC approves and certifies the Project.

Ms. Skufka indicated she could help the team as they begin the development of the Conservation Plan.



Indianapolis Office
6420 Castleway West Drive
Indianapolis, IN 46250

T 317.570.6800
F 317.570.6810

January 27, 2017
Project E160438.00

Mr. Steve Altman
Illinois Department of Natural Resources
Office of Water Resources
Downstate Regulatory Programs Section
One Natural Resource Way
Springfield, IL 62702

**Nationwide Permit 12 Joint Permit Application
Spire STL Pipeline LLC
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois**

Mr. Altman:

On behalf of Spire STL Pipeline LLC ("Spire"), GAI Consultants, Inc. ("GAI") is submitting a Nationwide Permit 12 Joint Permit Notification for the Spire STL Pipeline Project ("Project"), located in Scott, Greene, and Jersey Counties, Illinois ("IL").

The proposed Spire STL Pipeline Project will consist of approximately 59 miles of new, greenfield, 24-inch diameter steel pipeline (referred to as the "24-inch pipeline" portion of the Project) originating at an interconnection with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois; extending down through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east in St. Charles County, Missouri. The 24-inch pipeline then crosses the Mississippi River and ties into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). As part of the proposed Project and subject to LGC's receipt of approval from the Missouri Public Service Commission ("MPSC"), Spire is proposing to purchase Line 880 from LGC and modify the pipeline before placing it into interstate service. Line 880 consists of approximately seven miles of existing 20-inch diameter steel natural gas pipeline located in St. Louis County, Missouri that will connect the 24-inch pipeline part of the Project to the Enable Mississippi River Transmission, LLC ("Enable MRT") pipeline along the western bank of the Mississippi River in St. Louis County, Missouri at the terminus of the Project. The total length of the Project pipelines will be approximately 66 miles. The portion of the 24-inch diameter pipeline located within the State of Illinois is approximately 45 miles long. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day ("Dth/d"). No compression will be required. The Project will also include the construction of three new metering and regulating ("M&R") station interconnects with REX in Illinois and LGC and Enable MRT in Missouri and the construction of a new facility at an existing LGC site along Line 880. This Project, as proposed, falls under the oversight of the Federal Energy Regulatory Commission ("FERC"). The FERC plan and procedures will be adhered to in respect to aquatic resource crossings and restoration, and have been included as Attachment D.

GAI, on behalf of Spire, is hereby submitting the Project's Nationwide Permit ("NWP") 12 Joint Permit Application. This package has been prepared based on the Project adhering to the general and regional conditions of a NWP-12 and Section 401 Water Quality Certification General and Specific Conditions within the State of Illinois. A full copy of this PCN, including resources specific to the State of Missouri, has been concurrently provided to the United States Army Corps of Engineers ("USACE").

United States Fish and Wildlife Service consultation was initiated on August 29, 2016 and a response was received on December 8, 2016. Correspondence with the Illinois Historic Preservation Agency ("IHPA") was initiated on August 29, 2016. A response from IHPA will be provided once received in the anticipation that this permit application's review can be initiated without those documents in hand. Since a portion of the Project is unavailable for cultural resources investigation access at this time, we are requesting authorization of Single and Complete Projects that receive this concurrence on a time-staggered basis. Agency correspondence is included as Attachment B in the attached Joint Permit Application.

Nationwide Permit (NWP) 12 Joint Permit Application

Spire respectfully requests concurrence that the proposed Project can be authorized under Nationwide Permit 12. The construction of the Project has been designed to limit the amount of impacts to streams and wetlands within the Project area that are assumed to be jurisdictional waters of the United States to the greatest extent practicable.

Additionally, Spire is requesting a Section 10 letter of permission from the USACE for the crossings of the Mississippi and Missouri Rivers, which are both classified as Traditionally Navigable Waters ("TNW's"). In order to evaluate the feasibility, design, and constructability of the horizontal directional drill ("HDD") methods of pipeline installation under the Mississippi and Missouri Rivers, several geotechnical soil test borings were collected on land and along the river bottoms. The results of these test borings are outlined in the geotechnical report, included as Attachment C in the attached Joint Permit Application.

Temporary impacts to 60 streams and 32 wetlands will be necessary to construct the pipeline and access roads associated with the Project in the State of Illinois. Impacted streams and wetlands will be crossed using the dry-ditch open-cut method. A dam and flume method of dewatering is installed to create a dry work area, the trenches are dug, the pipeline is placed, and the trench is then refilled and the work area reclaimed. Additionally, temporary crossings of 20 streams and 14 wetlands located within the Project workspace will also be necessary during construction of the Project. Other aquatic resources, including the Mississippi River, will be crossed using the HDD method. This method involves boring a tunnel beneath the aquatic resources through which the pipeline will be pulled and installed. No physical impacts to the aquatic resources are anticipated to occur with this construction method. Detailed information regarding these impacts can be found in Tables 1 and 2 in the attached Joint Permit Application.

Avoiding stream and wetland impacts has been one of the driving factors in designing the proposed Project, and the currently proposed alignment represents an alternative that reduces stream and wetland impacts to the furthest extent practicable, while still meeting the purpose and need of the Project. Spire intends to utilize mitigation banking programs in IL should the District Engineer determine that compensatory mitigation is required for proposed impacts. Further avoidance and minimization includes the placement of timber mats for equipment crossings of streams and wetlands, and the Limit of Disturbance ("LOD") width will be narrowed to a 75-foot width at all resource crossings.

Streams and Wetlands

Fieldwork associated with stream and wetland investigations for the Project was conducted between September and November, 2016. The surveys identified streams and wetlands within a approximately 300-foot wide corridor centered on the proposed pipeline, and a 50-foot wide corridor surrounding the proposed access roads. Field investigations identified 73 wetlands, 158 waterbodies, and 6 ponds within the Project study area. These features are outlined in the Wetland Delineation and Stream Identification Report, included in the attached Joint Permit Application.

Rare, Threatened, or Endangered Species

Spire initiated consultation regarding the Project with the USFWS in June 2016 and held a meeting with the USFWS Rock Island Field office in July 2016. Prior to the initiation of field surveys, Spire reviewed various sources of available data to determine federally-listed and state-listed or protected species that could potentially inhabit or traverse the Project areas. The USFWS IPaC system was utilized to identify the federally-listed species that could potentially inhabit or traverse the Project area in Scott, Greene, Jersey Counties, Illinois. Spire reviewed this list and the information contained within consultation from the USFWS to determine the species potentially affected from the construction of the Project.

In order to determine state-listed species which have the potential to occur with the Project areas, Spire initiated consultation with the IDNR in June 2016. Spire performed a 0.5-mile Project review search through the IDNR's EcoCAT. No Illinois state rare, threatened, or endangered species were present on the EcoCAT search receipt for Scott and Greene Counties. Since a large search buffer was surveyed in EcoCAT, multiple areas of concern are present on the search receipt that do not occur within the Project area. Spire is coordinating with the IDNR regarding results of the EcoCAT for Jersey County.

Agency permits and approvals associated with the project have been provided in Section 3, Table 3 of the attached Joint Permit Application.

Cultural Resources

Background research was completed on the APE for the Project to gather information from previous cultural resource investigations and on known archaeological sites and historic architectural properties. Background research was acquired through an inventory search at the IHPA and MO SHPO offices. Additional online inventories were accessed by the use of the Inventory of Illinois Archaeological Sites Flex Archaeology Viewer, Illinois CRM Report Archive Database, and MO SHPO's Historic Districts and Sites viewer and Archaeology Viewer.

Eight previously identified archaeological sites extend into the defined APE. No historic or architectural resources are located within the Project's direct APE. Four of these archaeological resources are located in Greene and Scott Counties, Illinois, while the remaining four resources are within St. Charles and St. Louis Counties, Missouri. One of these archaeological sites has been recommended for Phase II archaeological testing, three have been previously determined as Not Eligible for listing in the NRHP, portions of one site were previously recommended not eligible, one site is recorded as being destroyed, and the remaining two sites have not been evaluated for NRHP eligibility. GAI conducted Phase I archaeological studies at each of these eight previously recorded site locations. Two small clusters of artifacts were identified along one site (GE00018). The remaining seven previously recorded sites were unidentified during Phase I survey.

Site GE00307 is situated on a terrace in a cultivated field. A portion of the site is crossed by a proposed access road for the current project. This site was identified in 1995 during a survey by the Center for American Archeology for a proposed four lane highway. The site is a small artifact scatter of lithic flakes and one prehistoric ceramic, dating the site from the Late Woodland. Site GE00307 was previously recommended for Phase II archaeological testing. However, since no artifacts were encountered during the current survey, no additional study is recommended.

Three previously recorded archaeological sites (GE00018, ST00499, and ST00500) in Illinois were determined to be Not Eligible for listing the NRHP. All but one of these resources (GE00018) were identified as a result of previous archaeological surveys. All three sites have an unknown prehistoric temporal affiliation.

Site SC1057 was identified in Missouri during a Phase I survey for the Keystone Pipeline Project in 2016. The portions of the site located within the study corridor of the Keystone Pipeline Project were determined to be Not Eligible for listing in the NRHP. This recorded site boundaries will be avoided by the Project construction right-of-way (ROW).

Site SC5 in Missouri is a Sioux Indian trail that is recorded as being destroyed. Systematic Phase I archaeological studies did not find evidence of an existing trail in the recorded location. This area is currently an active agricultural field.

The remaining two previously recorded archaeological sites (SL157 and SL158) are located in Missouri and remain unevaluated for NRHP eligibility.

Three historic districts are located within a 1-mile radius of the proposed Project. The Principia College Historic District is a National Historic Landmark and is situated approximately 0.8-mile from the APE. The Elsah Historic District is listed in the NRHP and is situated approximately 0.16-mile from the APE. The Chautauqua Historic District is also listed in the NRHP and located approximately 0.4-mile from the APE.

Closing

Spire and GAI thank you in advance for your review of this NWP-12 Joint Permit Application package. Please feel free to contact me at 614-499-6258, or at j.fuller@gaiconsultants.com if there are any questions or concerns.

Sincerely,

GAI Consultants, Inc.



Jayme Fuller
Environmental Manager

Attachments: Nationwide Permit 12 Joint Permit Application

telephone log



gai consultants

Date: 1-20-17

Project / Admin. No.: E160438.00

Call From: Keith Shank

Company: Illinois Department of Natural Resources

Phone No.:

Call To: Lori Ferry

Company: GAI Consultants

Phone No.: 630-605-5255

Subject: Spire STL Pipeline

cc:

Summary of Discussion, Decisions, and Commitments:

Mr. Shank called to discuss the status of consultation on the Spire STL Pipeline in response to my voicemail left on 1-18-2017.

Mr. Shank indicated that it was still the intent of the IDNR to submit a consultation letter on behalf of the Project but that the IDNR was behind, busy and short staffed and had not had time to submit a letter. I indicated that Mr. Pat Malone had informed Spire and FERC at an interagency meeting on 12-13-16 that IDNR was not going to submit a letter even though an EcoCat had been indicated in October 2016 and consultation had initiated in June 2016. Mr. Malone felt he had provided consultation information and was directed not to submit a formal letter on a federal project. Mr. Shank said he was going to submit a letter but it wasn't expected to be issued for another couple of weeks.

Mr. Shank asked about Spire's recent correspondence with USFWS. I informed him that on a conference call on 1-4-17 between Spire, USFWS and FERC; Spire approached the USFWS about their concerns with the tree clearing restrictions associated with federal (and state) listed bat species. Spire wanted to initiate incidental take with the USFWS to gain authorization to tree clear within the seasonal restriction assuming that federal permit authorizations may be delayed, and access on certain properties may not be obtained in time. Spire worked out a schedule with the USFWS to develop and submit a Draft Biological Assessment in March for the USFWS to review. In May 2017, Spire would conduct the requested mist net surveys and then provided a Final Biological Assessment to the USFWS in July 2017 should it be required (if Indiana bats are captured). USFWS will allow tree clearing for northern long-eared bats under the federal 4(d) rule. Spire understands that the IDNR does not recognize the 4(d) rule for northern long-eared bats, therefore, Spire wanted to discuss a similar

process for the development of a conservation plan and incidental take authorization with the IDNR (Jenny Skufka). Spire would also include timber rattlesnake in its Conservation Plan for the IDNR and Indiana bat (if capture during mist net surveys).

Spire is also in process of requesting approval from the USFWS for conducting mist net surveys off properties where survey access has not been obtained. These locations may also need to be vetted through the IDNR. Mr. Shank indicated that the IDNR typically likes mist net surveys to be conducted on the properties where the Project is located but would be open for reviewing what we can present. Mr. Shank indicated that other state listed species may be added to our consultations regardless of what EcoCat results showed. I informed Mr. Shank that we are filing our FERC application on January 25, 2017 and have included the state listed species from the EcoCat results we received (as applicable) and previous consultations with Mr. Malone. He thought that maybe Great Plains ratsnake might need to be added to our list as well as some bird species. I told him that we could further consult on these species once a consultation letter is received from their offices.

Mr. Shank indicated he would inform Ms. Jenny Skufka that we spoke and that her office can proceed with talking with us regarding incidental take authorizations.



Illinois Department of Agriculture

telephone log



gai consultants

Date: 4-7-2017

Project / Admin. No.: E160438.00

Call From: Lori Ferry

Company: GAI Consultants

Phone No.: 630-605-5255

Call To: Terry Savko

Company: Illinois Department of Agriculture

Phone No.: 217-785-4458

Subject: Clarifications on the AIMA

cc:

Summary of Discussion, Decisions, and Commitments:

Called Ms. Savko to clarify the wording in Section 19 of the executed Agricultural Impact Mitigation Agreement. Section 19 refers to weed control of the Project's aboveground facility sites which includes spraying pesticide/herbicide at facilities located adjacent to agricultural lands. The IDOA does not have a requirement for weed control on the pipeline right-of-way as long as it is done by Spire or worked out in an agreement with the landowners to do. Any spraying would need to be conducted by a licensed applicator in the state of Illinois.

Ali Trunzo

From: Lori Ferry
Sent: Friday, April 07, 2017 10:36 AM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline-AIMA

From: Savko, Terry [mailto:Terry.Savko@Illinois.gov]
Sent: Friday, April 07, 2017 9:18 AM
To: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: RE: Spire STL Pipeline-AIMA

Sorry, I was in a conference call earlier when you called.
This version looks fine.





Terry Savko, IL Dept of Agriculture
Bureau of Land and Water Resources
State Fairgrounds, P.O. Box 19281, Springfield, IL 62794-9281
217.785.4458 terry.savko@illinois.gov


From: Lori Ferry [mailto:L.Ferry@gaiconsultants.com]
Sent: Thursday, April 06, 2017 2:26 PM
To: Savko, Terry <Terry.Savko@Illinois.gov>
Subject: [External] Spire STL Pipeline-AIMA

Hi Terry
How does this one look for you?

Thanks again,
Lori

Lori Ferry
Environmental Manager-Energy Business Unit

GAI Consultants
Chicago Office | 2300 Cabot Drive, Suite 395 Lisle, Illinois 60532
T 331.301.2002 M 630.605.5255 | gaiconsultants.com |    
l.ferry@gaiconsultants.com

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Ali Trunzo

From: Lori Ferry
Sent: Wednesday, April 05, 2017 8:16 PM
To: Ali Trunzo
Subject: FW: [External] Spire STL Pipeline-Updated AIMA

From: Savko, Terry [mailto:Terry.Savko@Illinois.gov]
Sent: Wednesday, April 05, 2017 4:57 PM
To: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: RE: [External] Spire STL Pipeline-Updated AIMA

Thanks Lori.
I'm in the process of reading through the front page.
I will get back with you tomorrow.

Terry Savko, IL Dept of Agriculture
Bureau of Land and Water Resources
State Fairgrounds, P.O. Box 19281, Springfield, IL 62794-9281
217.785.4458 terry.savko@illinois.gov





From: Lori Ferry [mailto:L.Ferry@gaiconsultants.com]
Sent: Wednesday, April 05, 2017 4:20 PM
To: Savko, Terry <Terry.Savko@Illinois.gov>
Subject: [External] Spire STL Pipeline-Updated AIMA


Hi Terry
Per our discussion I have attached the following documents
-Final AIMA with track changes indicating our new project description
-Final AIMA with track changes accepted (please note this does push the text down and affects pages 1-4 of the document. Because of the page break into page 5 (Definitions), everything from page 5-16 should be the same.
-Final PDF of the document with the first 4 pages replaced and signature pages included.

Please let me know if you are in agreement with these documents. I appreciate your understanding of this change.

Lori

Lori Ferry
Environmental Manager-Energy Business Unit

GAI Consultants
Chicago Office | 2300 Cabot Drive, Suite 365 Lisle, Illinois 60532
T 331.301.2002 M 630.605.5255 | gaiconsultants.com |    
l.ferry@gaiconsultants.com

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GAI Consultants, Inc.-Chicago Office
2300 Cabot Drive, Suite 395
Lisle, Illinois 60532

T 630.605.5255

March 28, 2017

Ms. Terry Savko
Illinois Department of Agriculture - Bureau of Land and Water Resources
P.O. Box 19281
State fairgrounds
Springfield, IL 62794-9281

**Re: Supplemental Information (Docket No. CP17-40)
Spire STL Pipeline LLC
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Ms. Savko:

In June 2016, Spire Pipeline LLC ("Spire") initiated consultation with your office regarding their intent to construct, own, and operate the proposed Spire STL Pipeline Project ("Project") which consisted of approximately 59 miles of new, greenfield 24-inch-diameter steel pipeline (referred to as the "24-inch pipeline") originating at an interconnection with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois; extending down through Greene and Jersey counties in Illinois before crossing the Mississippi River and extending east into St. Charles County, Missouri, crossing the Missouri River and tying into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Line 880 consisted of approximately seven miles of existing 20-inch-diameter steel pipeline. As part of the proposed Project, Spire was planning on modifying Line 880 before placing it in to interstate service. The Project also included the construction of minor aboveground metering and regulating ("M&R") stations. On January 26, 2017, Spire filed an application with the Federal Energy Regulatory Commission ("FERC") for a Certificate of Public Convenience and Necessity for the Project (Docket No. CP17-40-000).

On March 15, 2017, Spire filed a "Preliminary Notification of Preferred Route Change" with FERC, indicating that the Spire no longer plans to modify the existing Line 880 as part of the Project. Instead, Spire intends to construct a new, greenfield 24-inch pipeline (referred to as the "North County Extension") which will extend the 24-inch pipeline portion of the Project to a proposed interconnect with Enable Mississippi River Transmission ("Enable MRT"). Spire plans to file an amended application with FERC in April 2017. GAI Consultants, Inc. ("GAI"), on behalf of Spire, is submitting supplemental information to assist with your review of the Project as amended. An updated description of the proposed Project facilities and location map (Figure 1) are provided herein.

Amended Project Description

The amended Project as proposed will consist of approximately 65 miles of new, greenfield, 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the REX pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with LGC. The second segment of new, greenfield pipeline, North County Extension, will consist of a 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC

interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable MRT and LGC. The total length of the Project pipeline will be approximately 65 miles. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day ("Dth/d"). No compression will be required. The Project also includes the construction of three new M&R stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri.

The acquisition and modifications to LGC's existing Line 880 is no longer proposed as part of the Project.

Spire anticipates a typical 90-foot temporary construction right-of-way width, and a 50-foot permanent easement. The construction right-of-way is anticipated to be reduced to 75 feet at streams and wetlands. An additional 25 feet of temporary work space will be required through agricultural areas, and additional temporary work space will be required to facilitate construction in certain areas, such as crossings of roads, railroads, streams, and wetlands.

The updated Project schedule includes the following target dates:

- July 22, 2016 - National Environmental Policy Act ("NEPA") process began (initiation of FERC Pre-filing process);
- August 2016 through March 2017 (Anticipated) - Biological and Cultural Resource Surveys;
- January 26, 2017 - Application Filed with FERC;
- April 2017 (Anticipated) - File Amended Application with FERC;
- September 2017 (Anticipated) - Draft NEPA Document Published; and
- December 2017 (Anticipated) - FERC Decision on Application.

Construction is anticipated to commence in January 2018.

On behalf of Spire, we'd like to take this opportunity to invite the Illinois Department of Agriculture - Bureau of Land and Water Resources to provide comments regarding the Project as it will be amended. We appreciate your continued involvement and cooperation in the review of this important Project.

If you have any questions or would like additional information, please feel free to contact me at 630.605.5255 or by e-mail at L.Ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

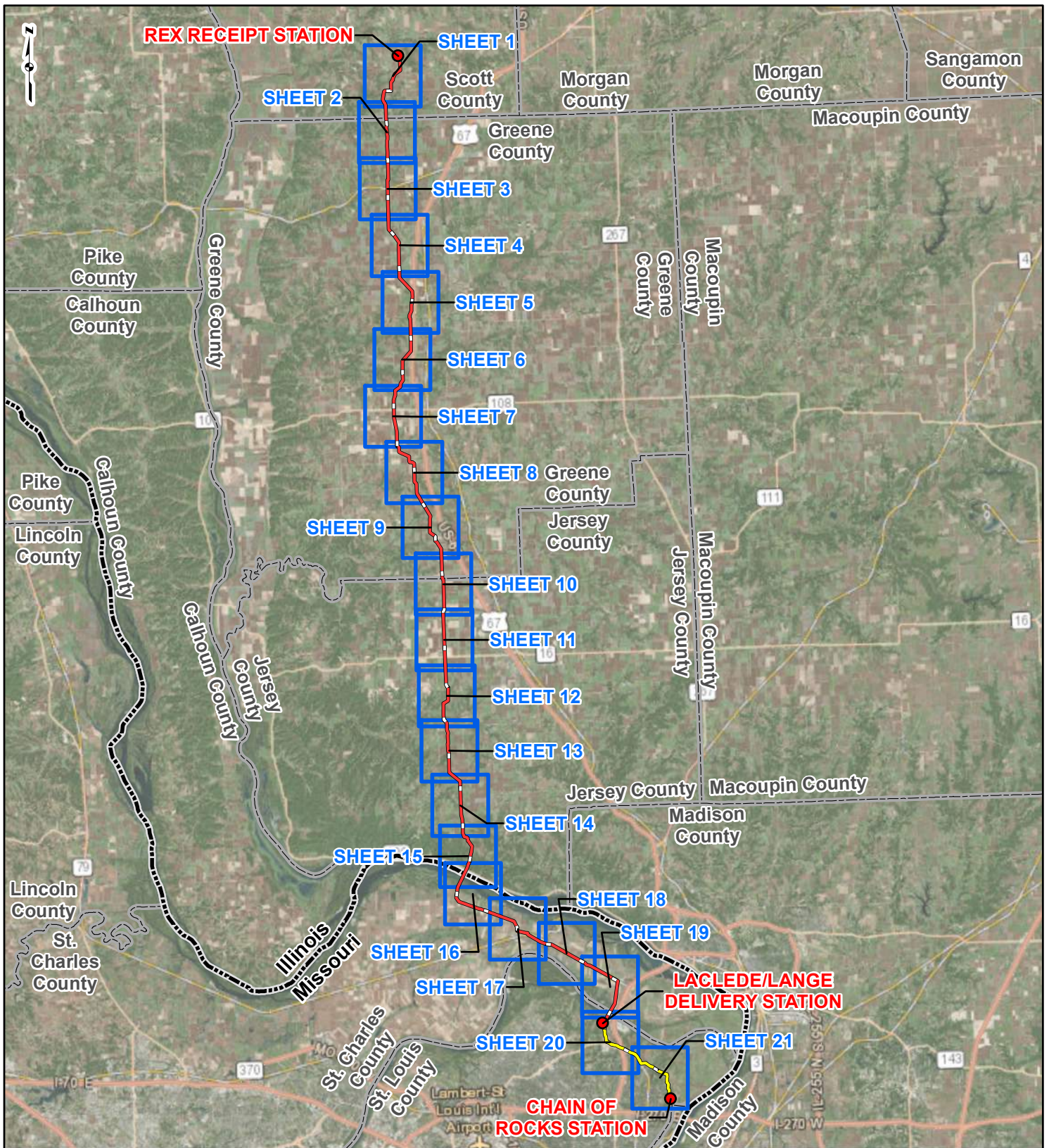


Lori M. Ferry
Environmental Manager

LMF/ka

Attachment: United States Geological Survey (USGS) Topographic Map (Figure 1)

ATTACHMENT
USGS TOPOGRAPHIC MAP (FIGURE 1)



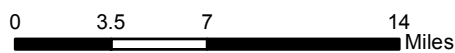
PROJECT LOCATION



SCOTT, GREENE AND JERSEY COUNTIES, ILLINOIS AND ST. CHARLES AND ST. LOUIS COUNTIES, MISSOURI

LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE
- - - NORTH COUNTY EXTENSION
- SHEET INDEX
- COUNTY BOUNDARY
- STATE BOUNDARY



**FIGURE 1
LOCATION MAP
SHEET INDEX**



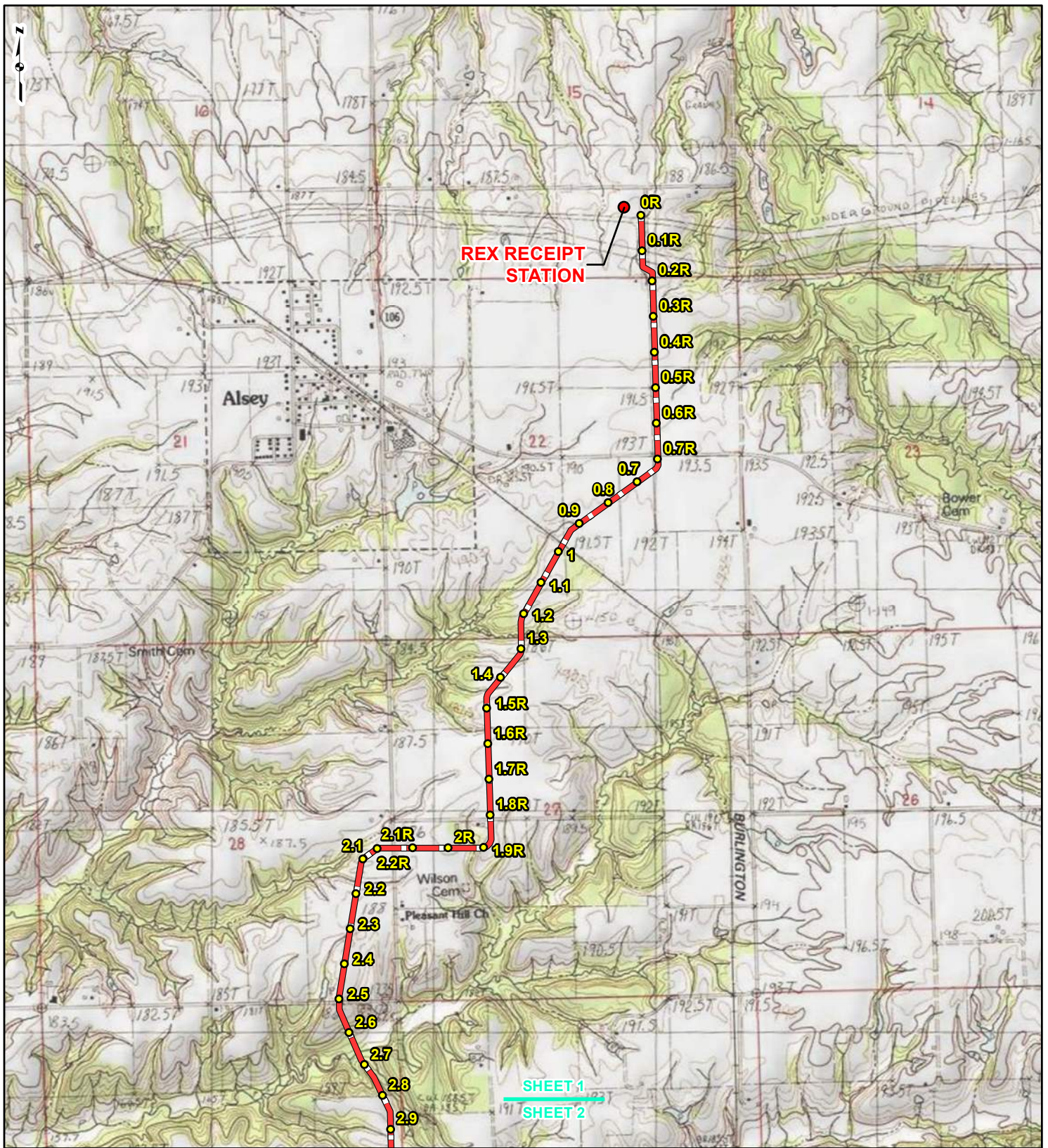
**SPIRE STL
PIPELINE
PROJECT**



DRAWN BY: PMH
CHECKED: SWW

DATE: 3/28/2017
APPROVED: LMF

REFERENCE: ESRI WORLD IMAGERY AND TRANSPORTATION, NAIP, USDA FSA, 2015, ACCESSED 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE MILEPOST	— EXTENSION
○ NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION MILEPOST	▭ STATE BOUNDARY

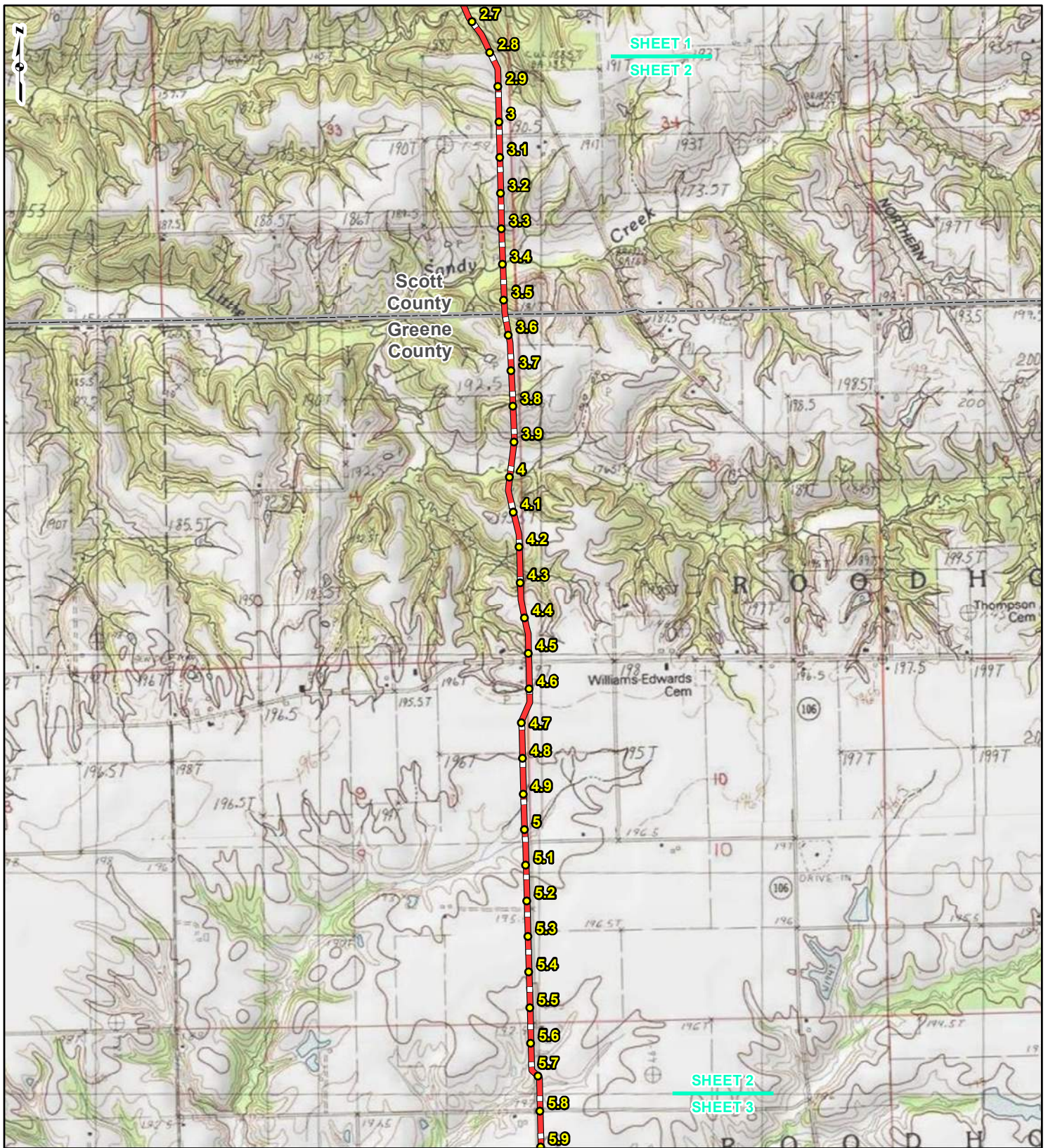
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**FIGURE 1
LOCATION MAP
SHEET 1 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	□ COUNTY BOUNDARY
○ MILEPOST	□ STATE BOUNDARY

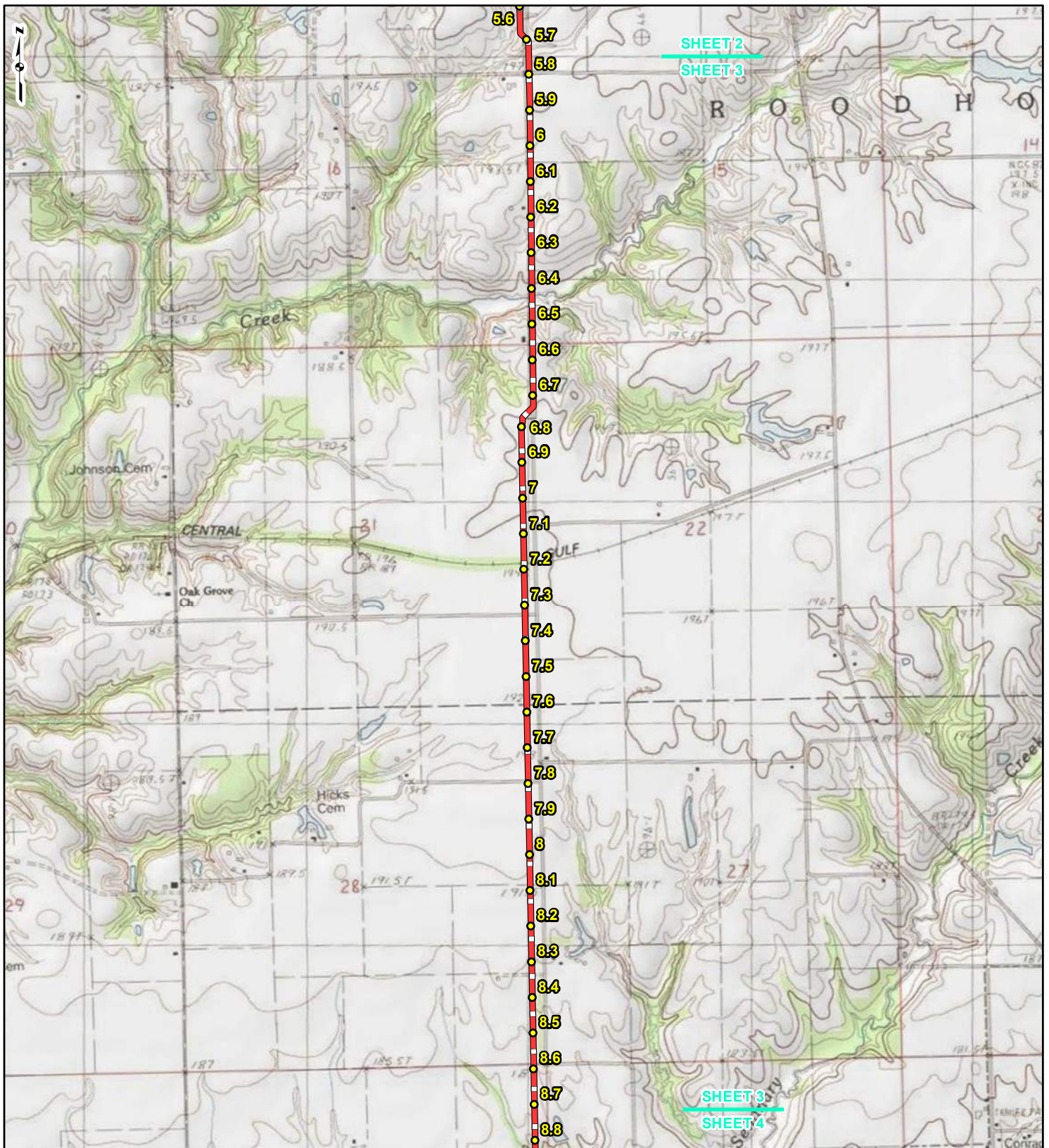
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**FIGURE 1
LOCATION MAP
SHEET 2 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

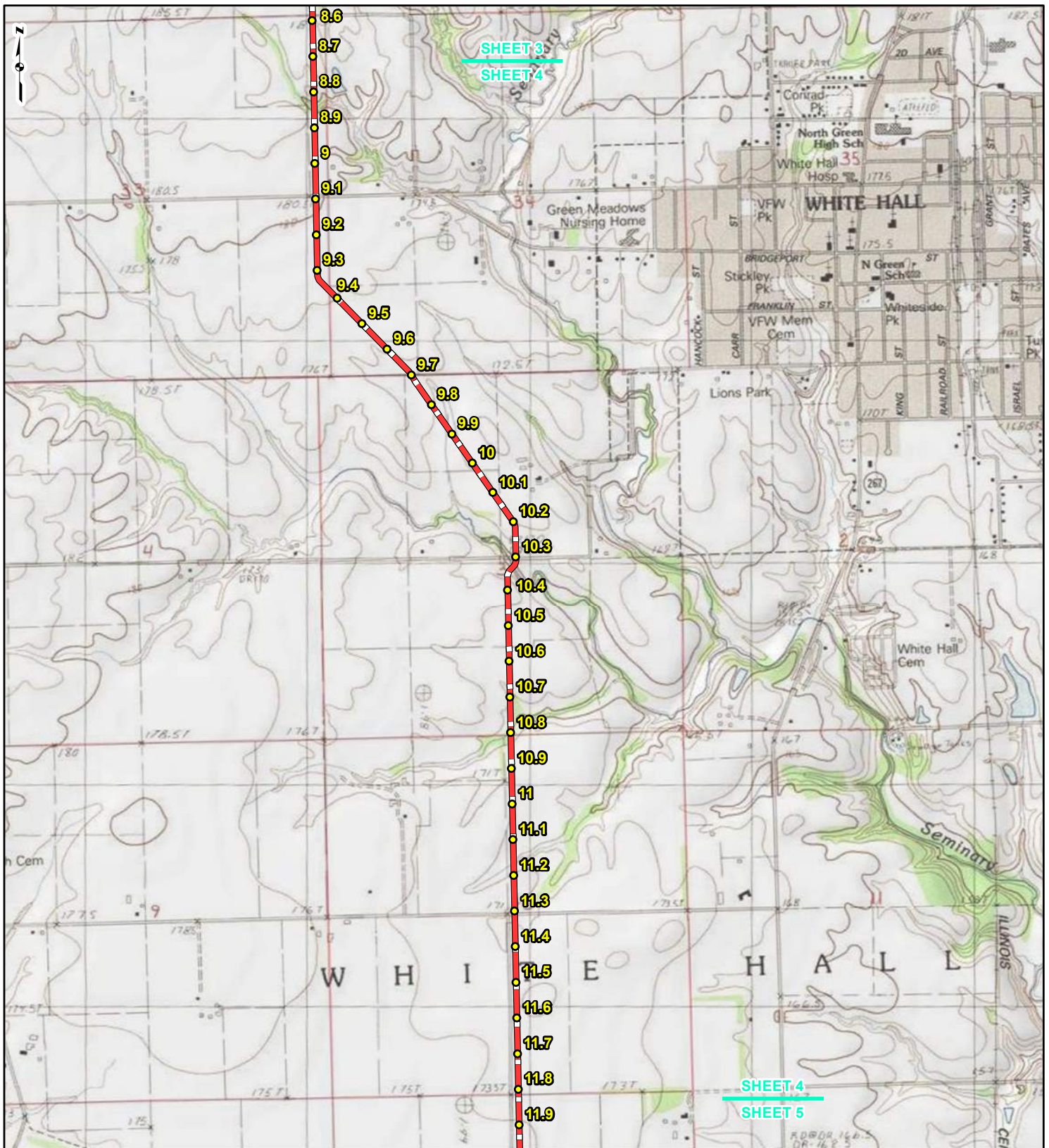
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FIGURE 1
LOCATION MAP
SHEET 3 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1995), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

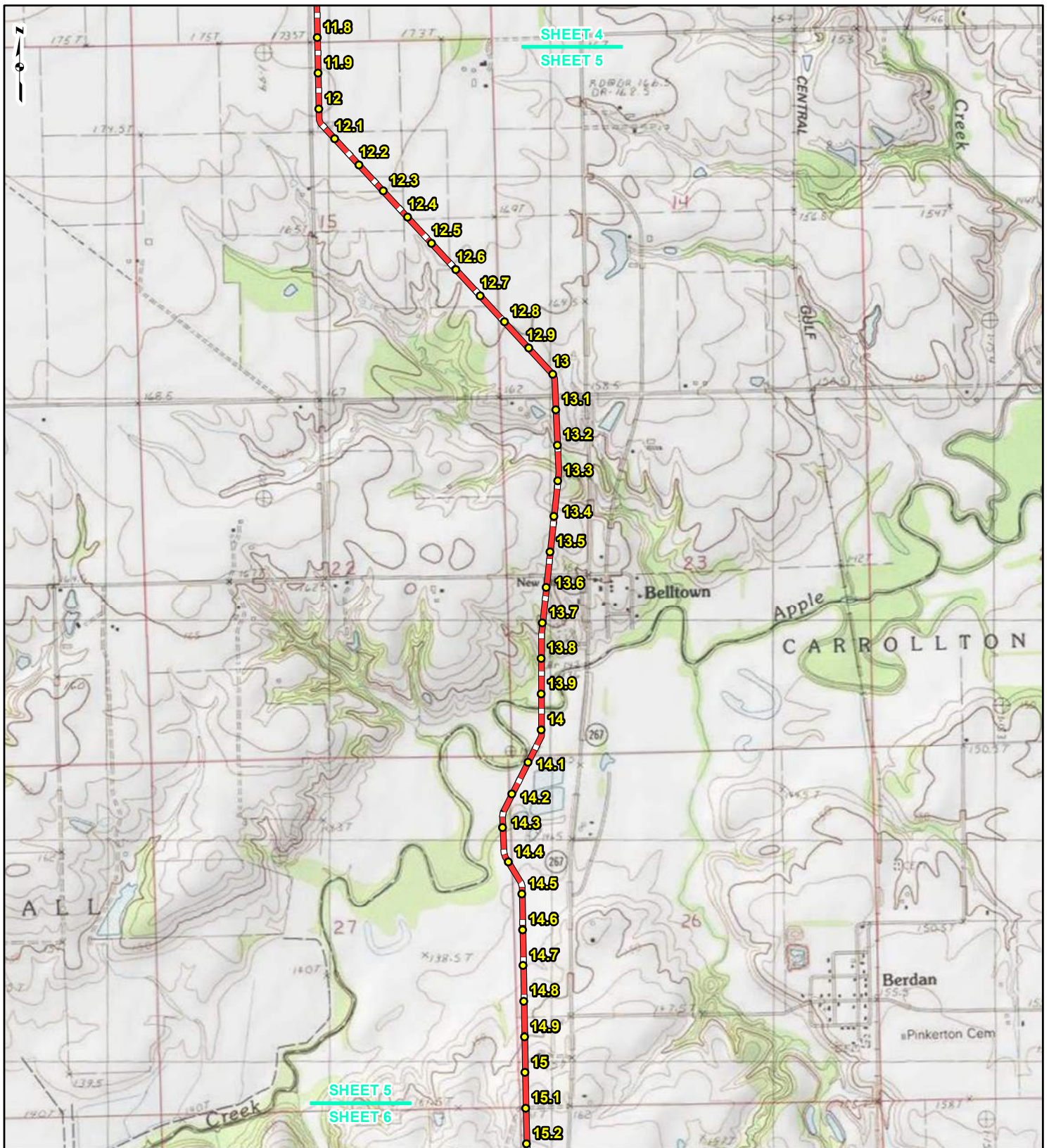
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**FIGURE 1
LOCATION MAP
SHEET 4 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.





LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

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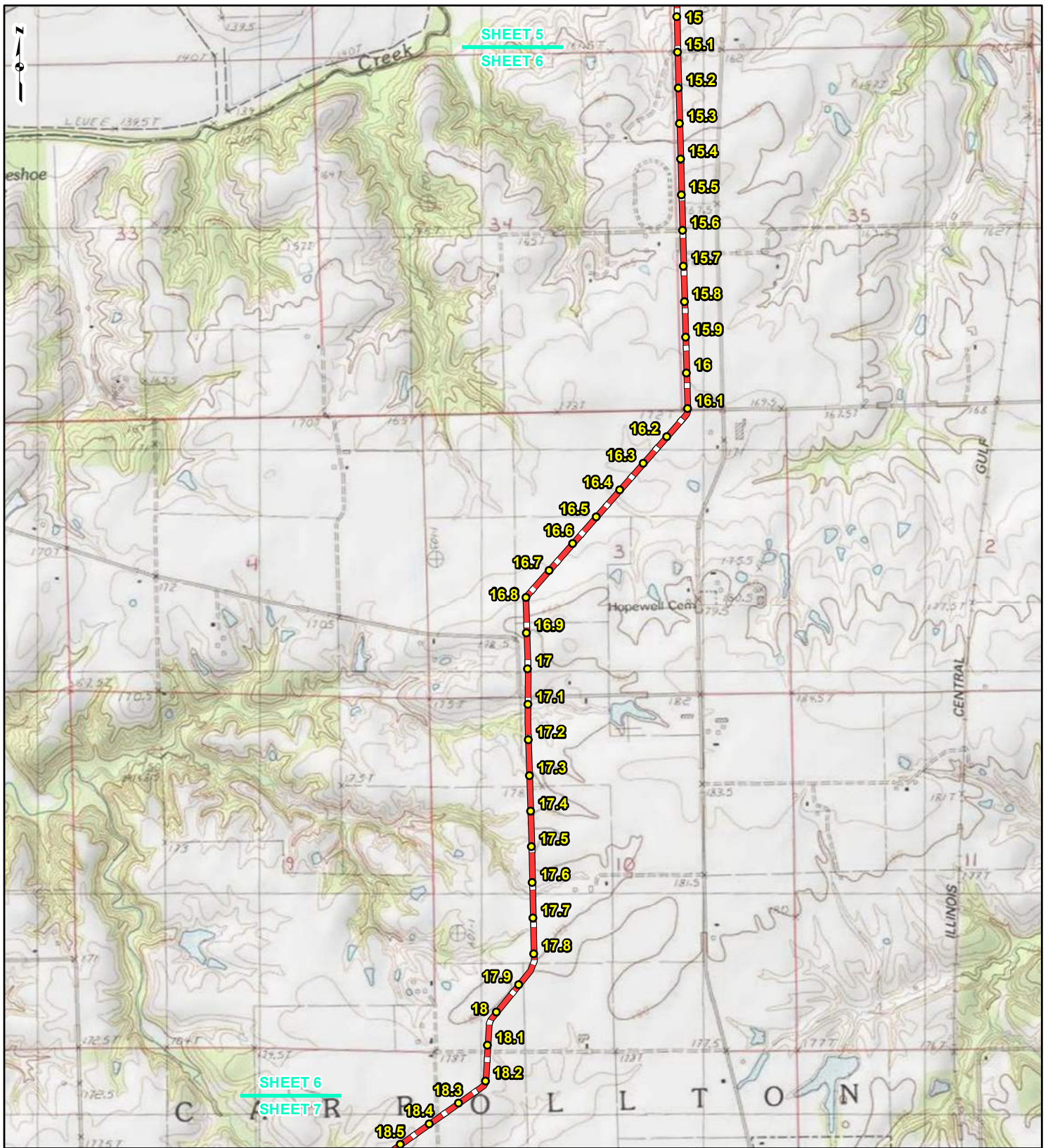
**FIGURE 1
LOCATION MAP
SHEET 5 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	□ COUNTY BOUNDARY
	□ STATE BOUNDARY

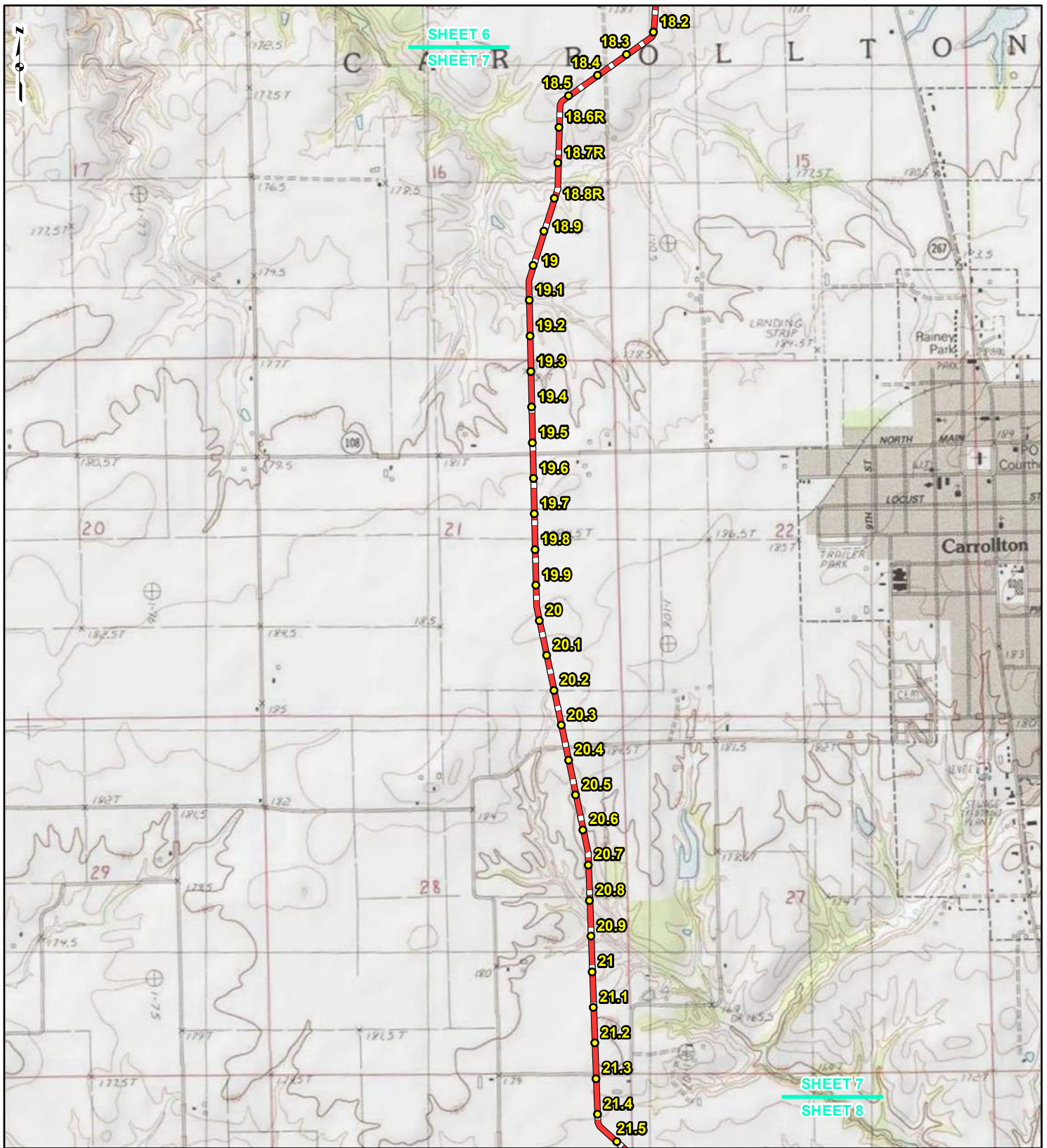
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**FIGURE 1
LOCATION MAP
SHEET 6 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

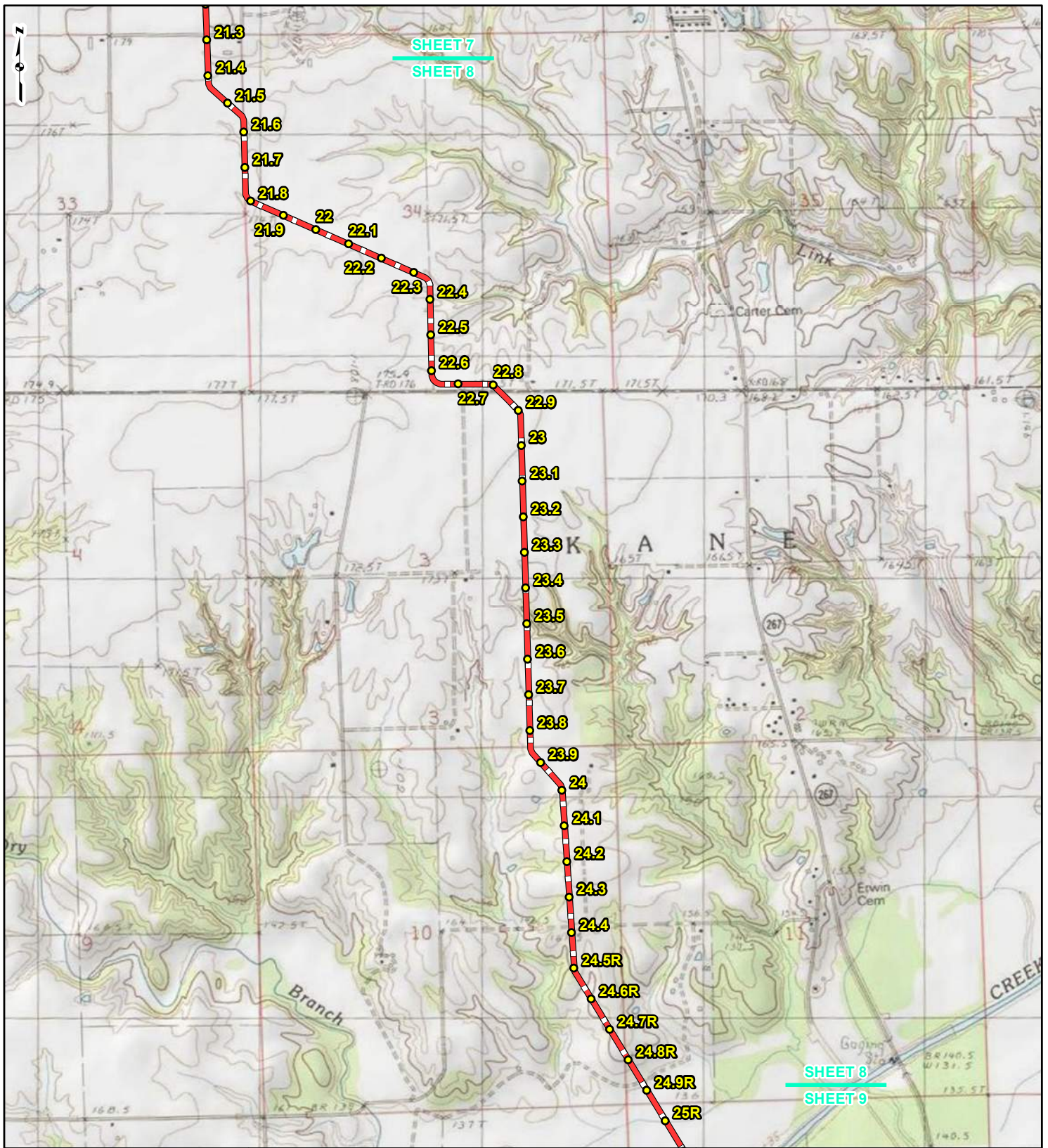
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**FIGURE 1
LOCATION MAP
SHEET 7 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
○ MILEPOST	▭ STATE BOUNDARY

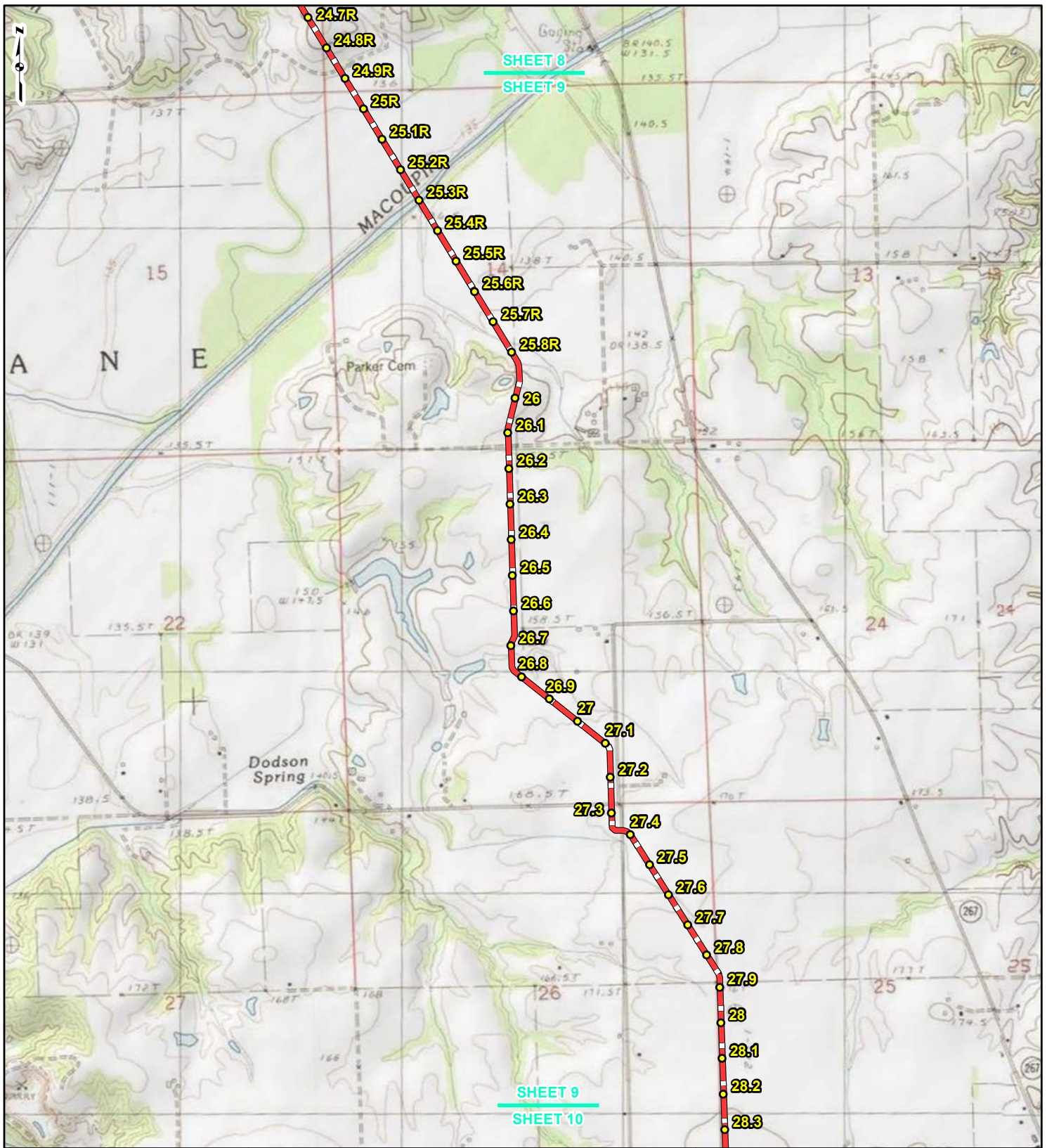
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 8 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

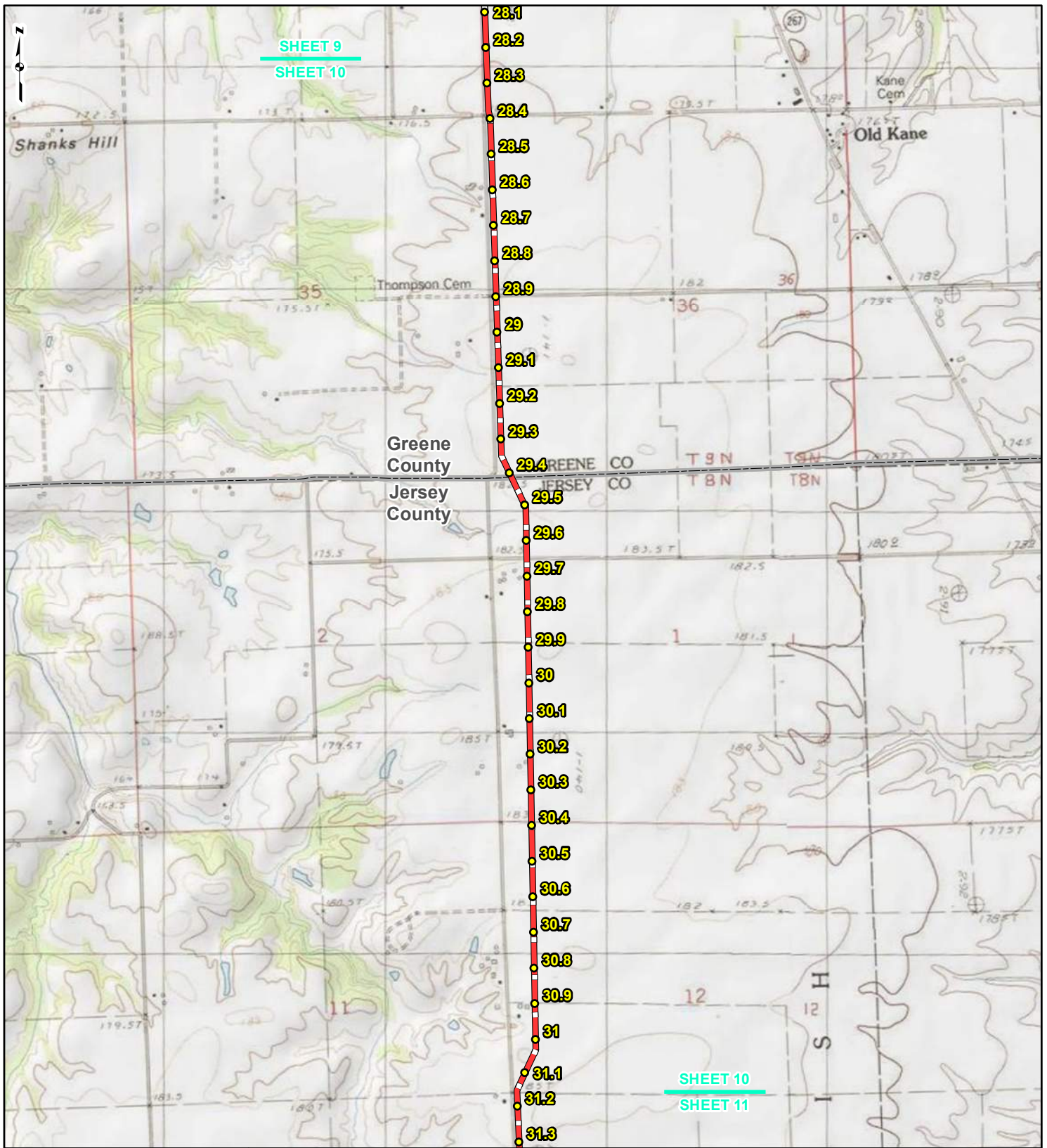
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 9 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

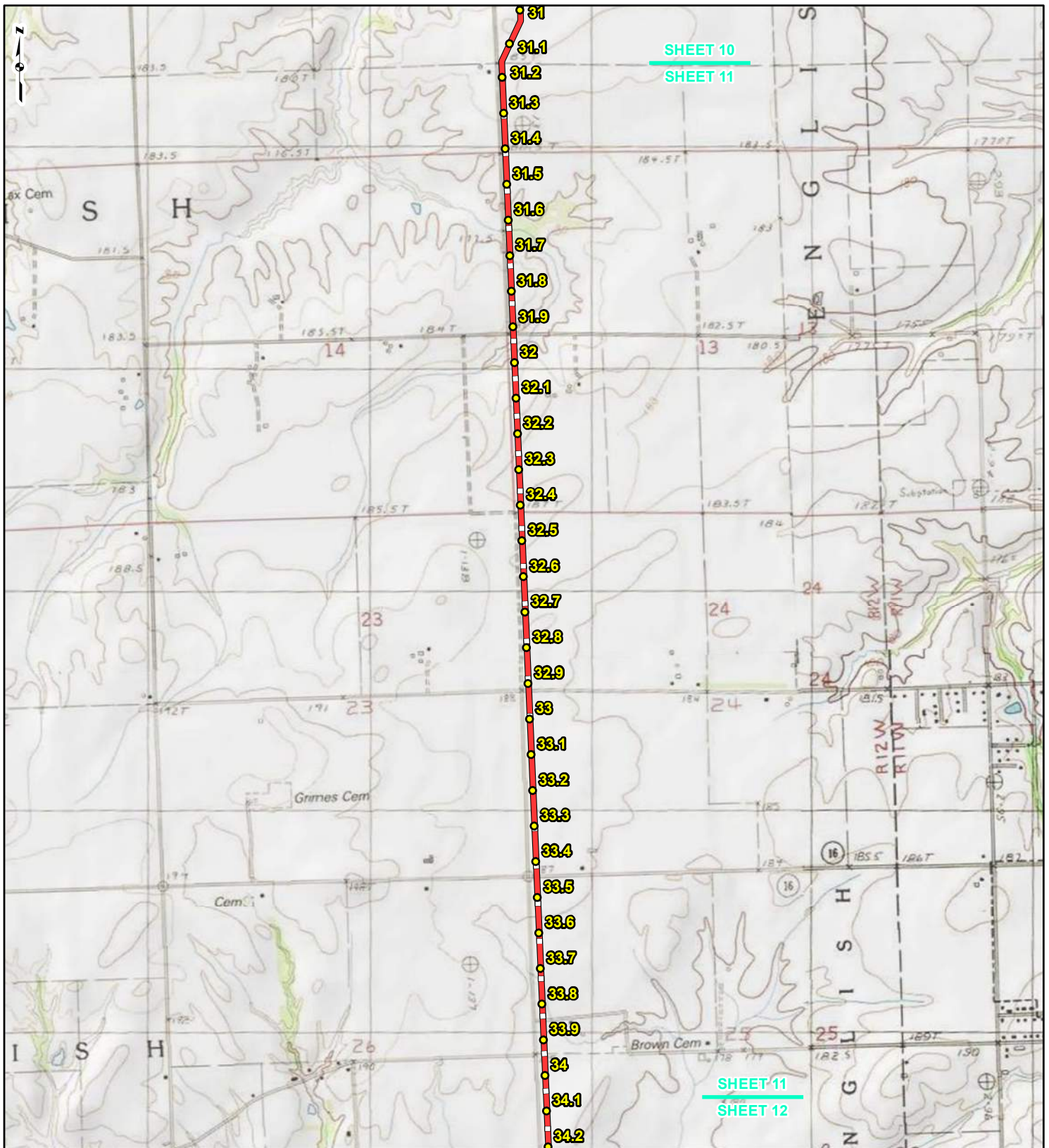
**FIGURE 1
LOCATION MAP
SHEET 10 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

gai consultants

DRAWN BY: PMH DATE: 3/28/2017
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), EL SAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

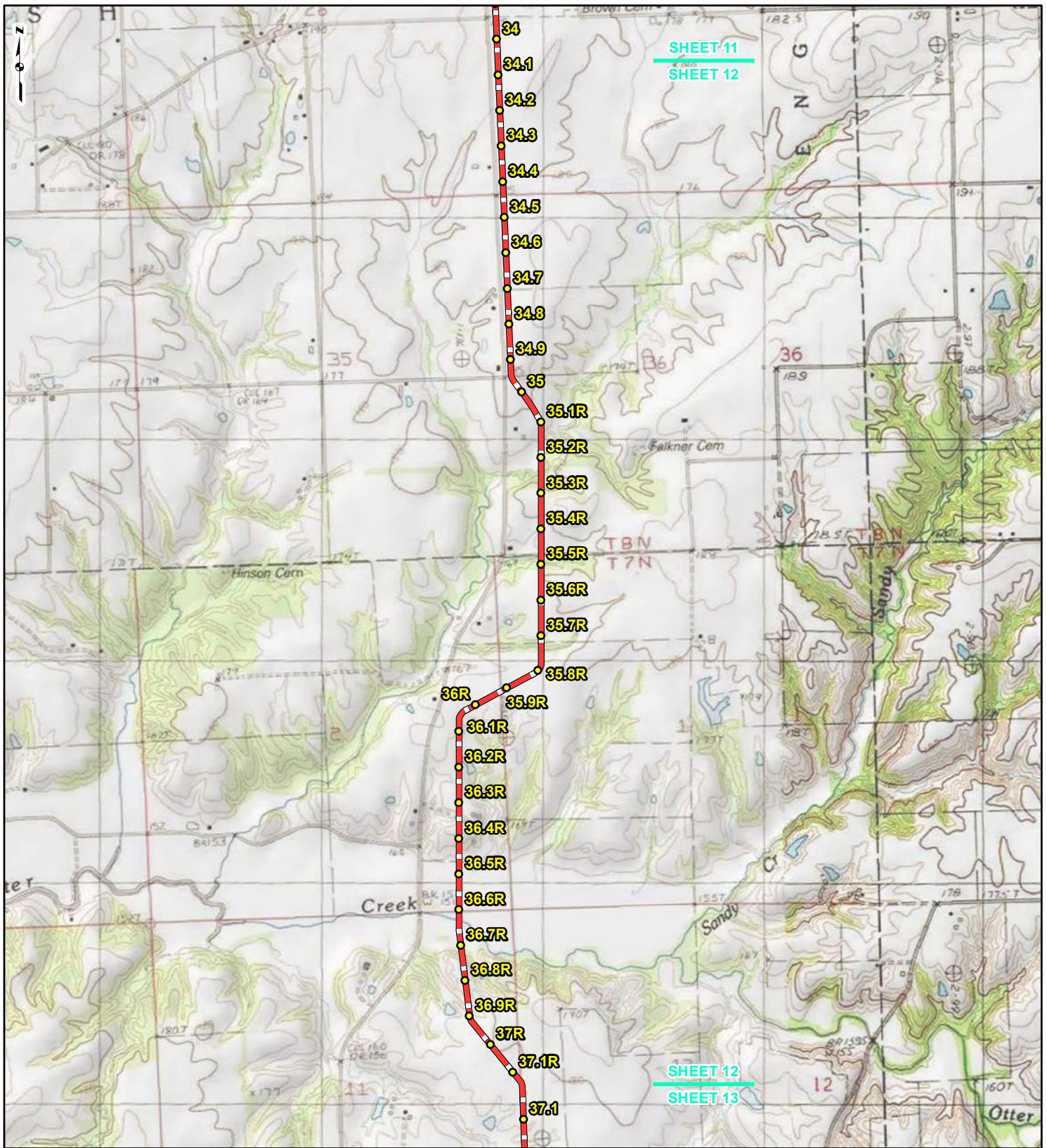
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 11 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), EL SAH (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 03/2017.



SHEET 11
SHEET 12

SHEET 12
SHEET 13



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

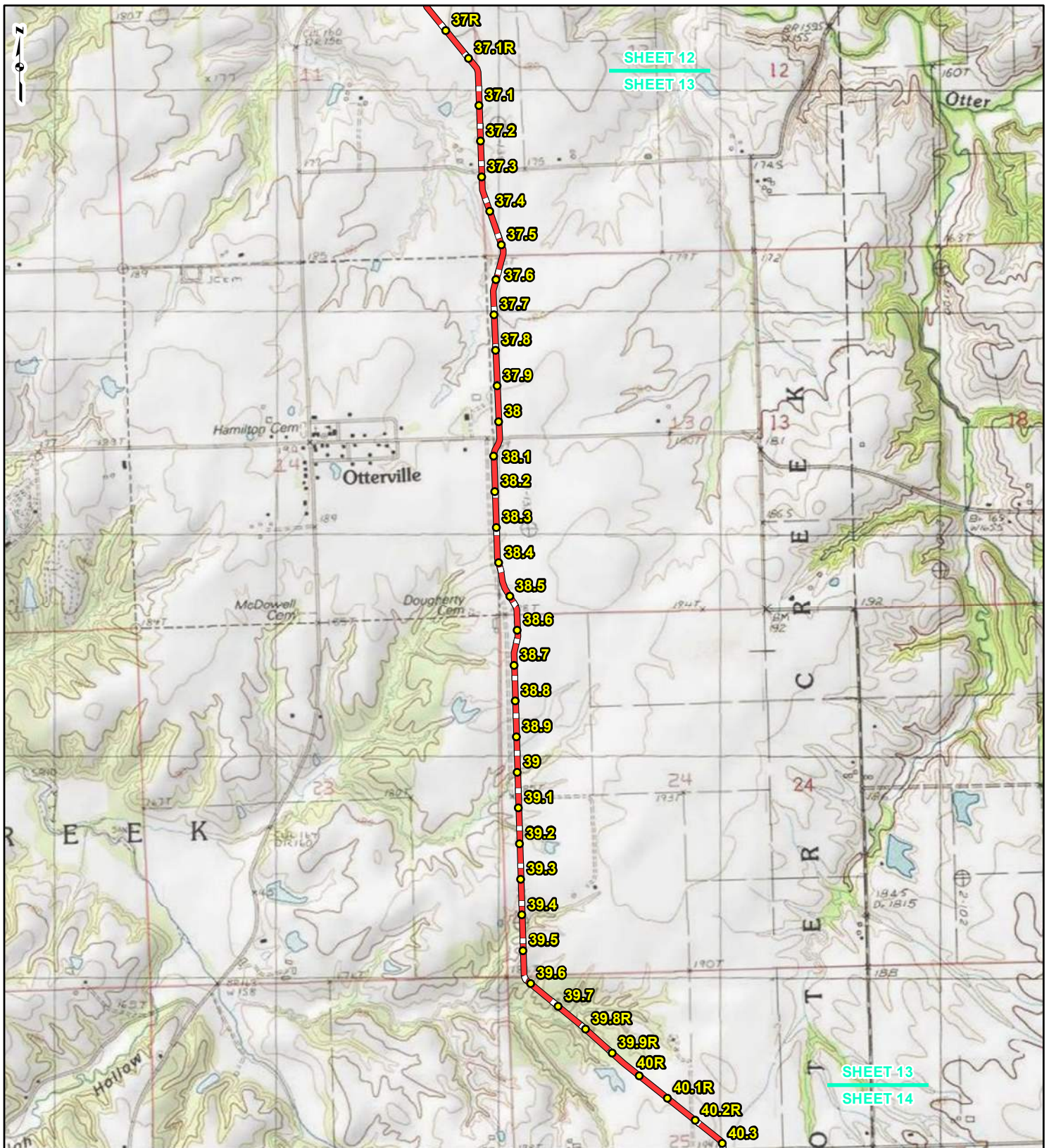
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 12 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

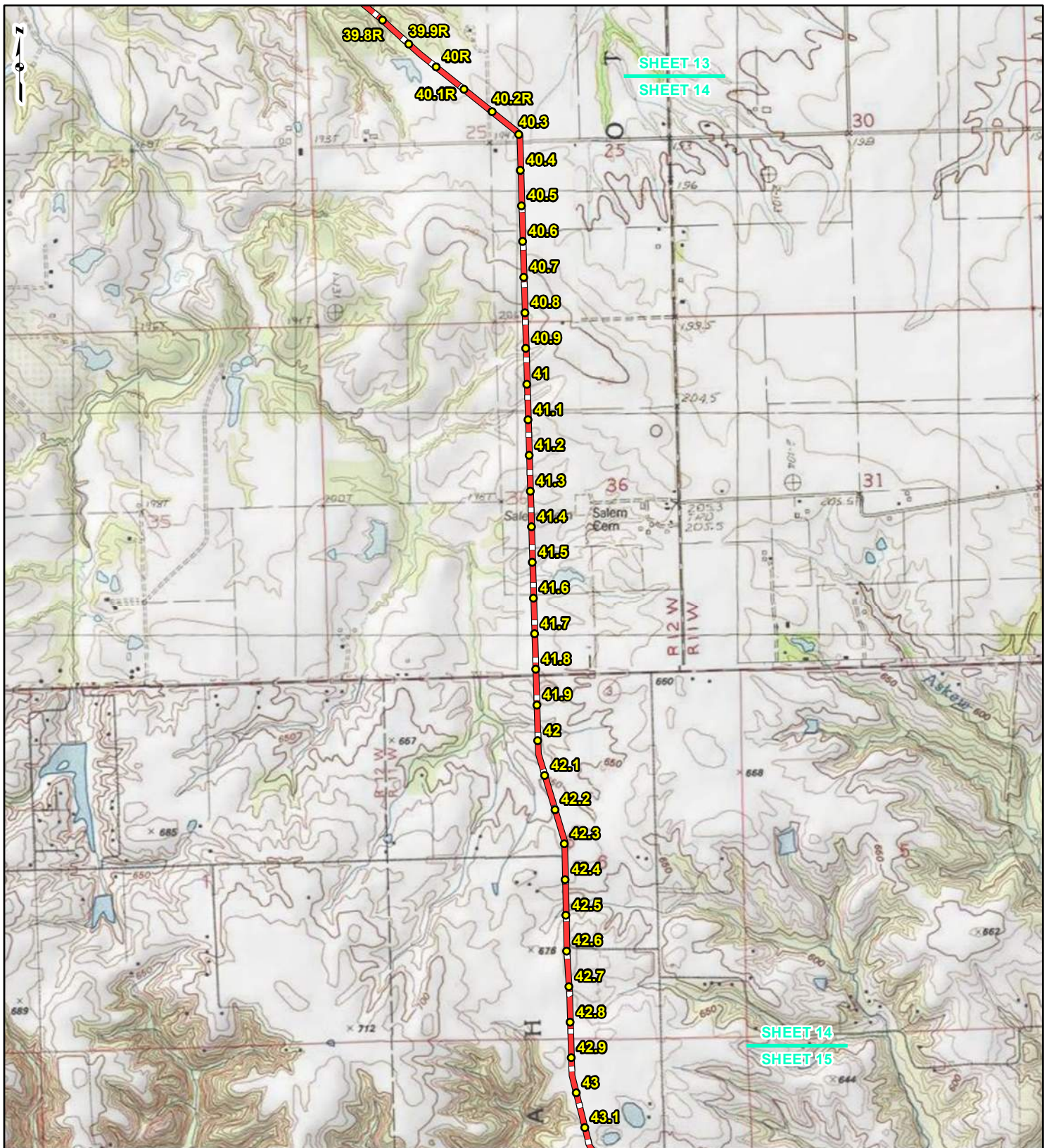
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 13 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



SHEET 13
SHEET 14

SHEET 14
SHEET 15



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE MILEPOST
- NORTH COUNTY EXTENSION MILEPOST
- 24-INCH PIPELINE NORTH COUNTY EXTENSION
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY

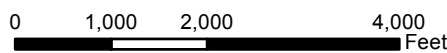


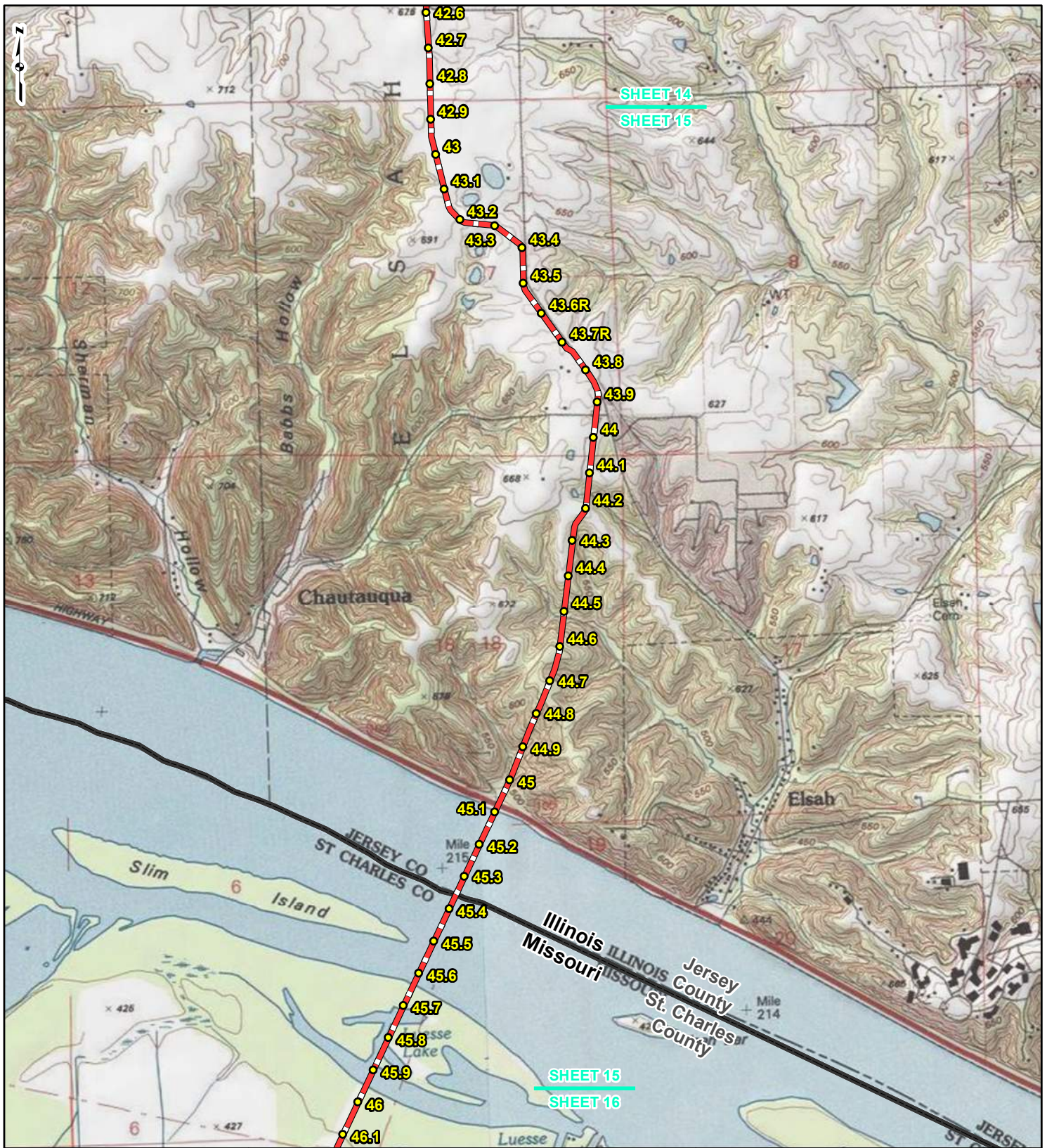
FIGURE 1
LOCATION MAP
SHEET 14 OF 21

SPIRE STL
PIPELINE
PROJECT



DRAWN BY: PMH DATE: 3/28/2017
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.





LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

0 1,000 2,000 4,000
Feet

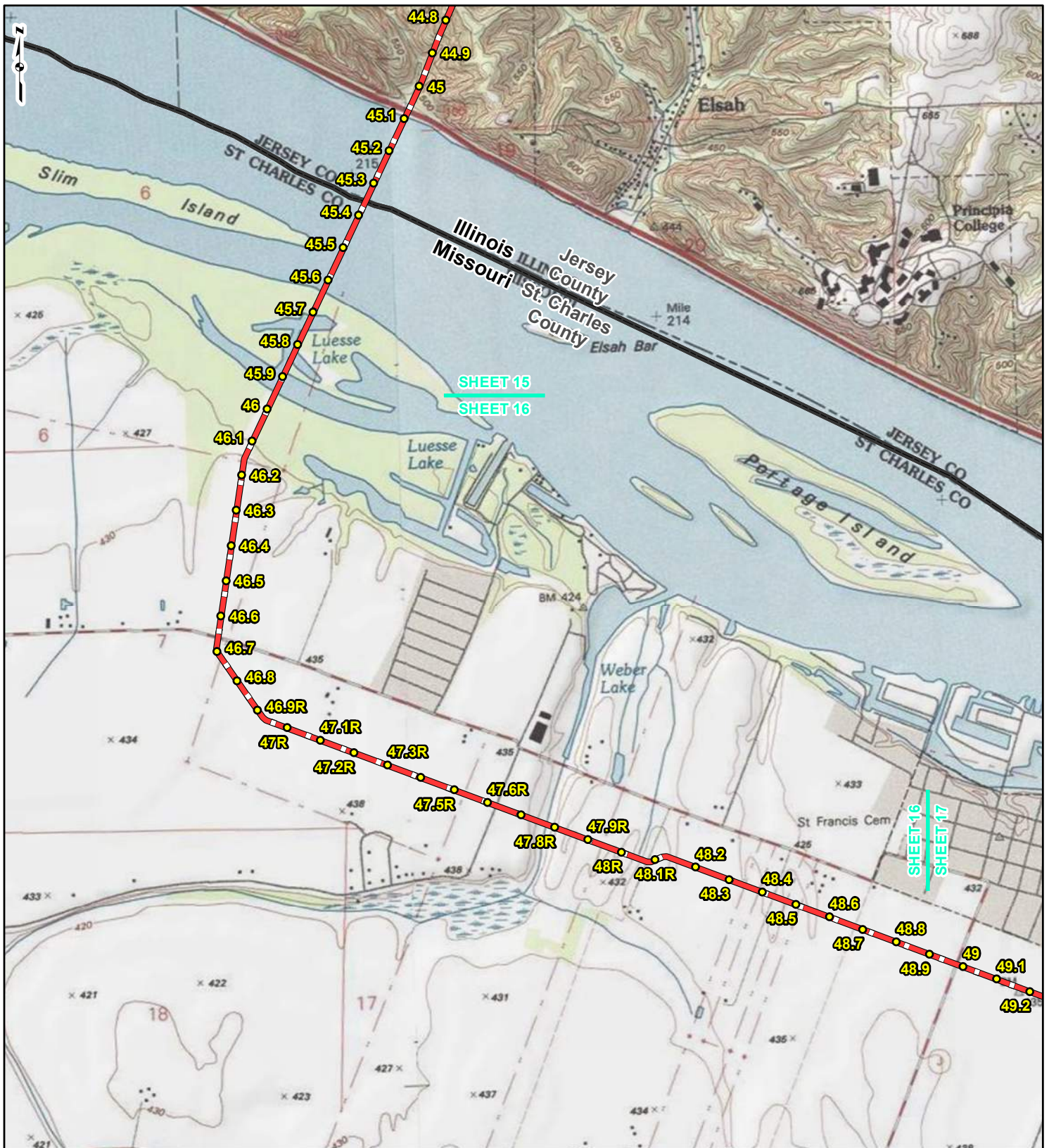
**FIGURE 1
LOCATION MAP
SHEET 15 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



SHEET 15
SHEET 16

SHEET 16
SHEET 17



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

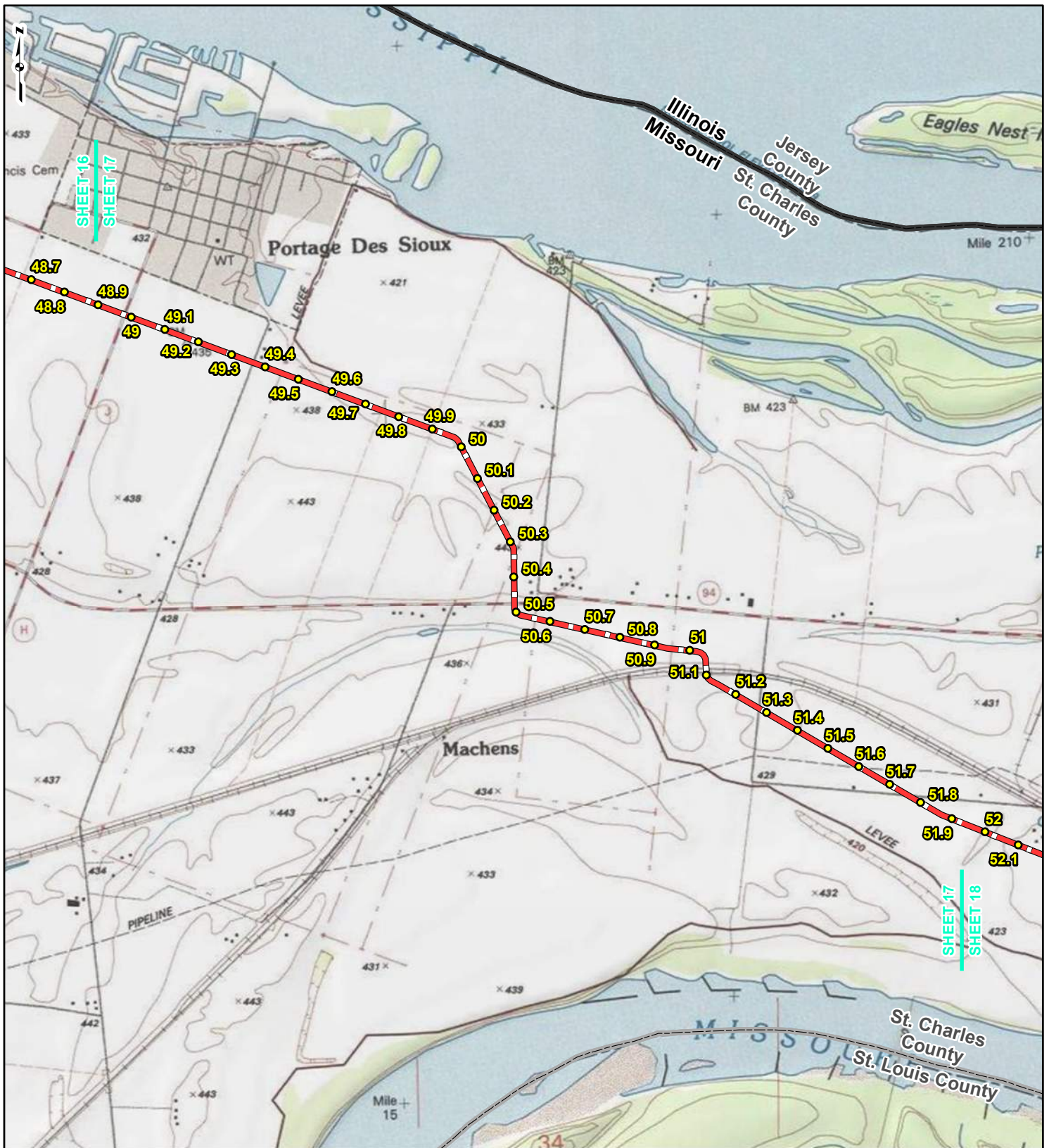
0 1,000 2,000 4,000
Feet

**FIGURE 1
LOCATION MAP
SHEET 16 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

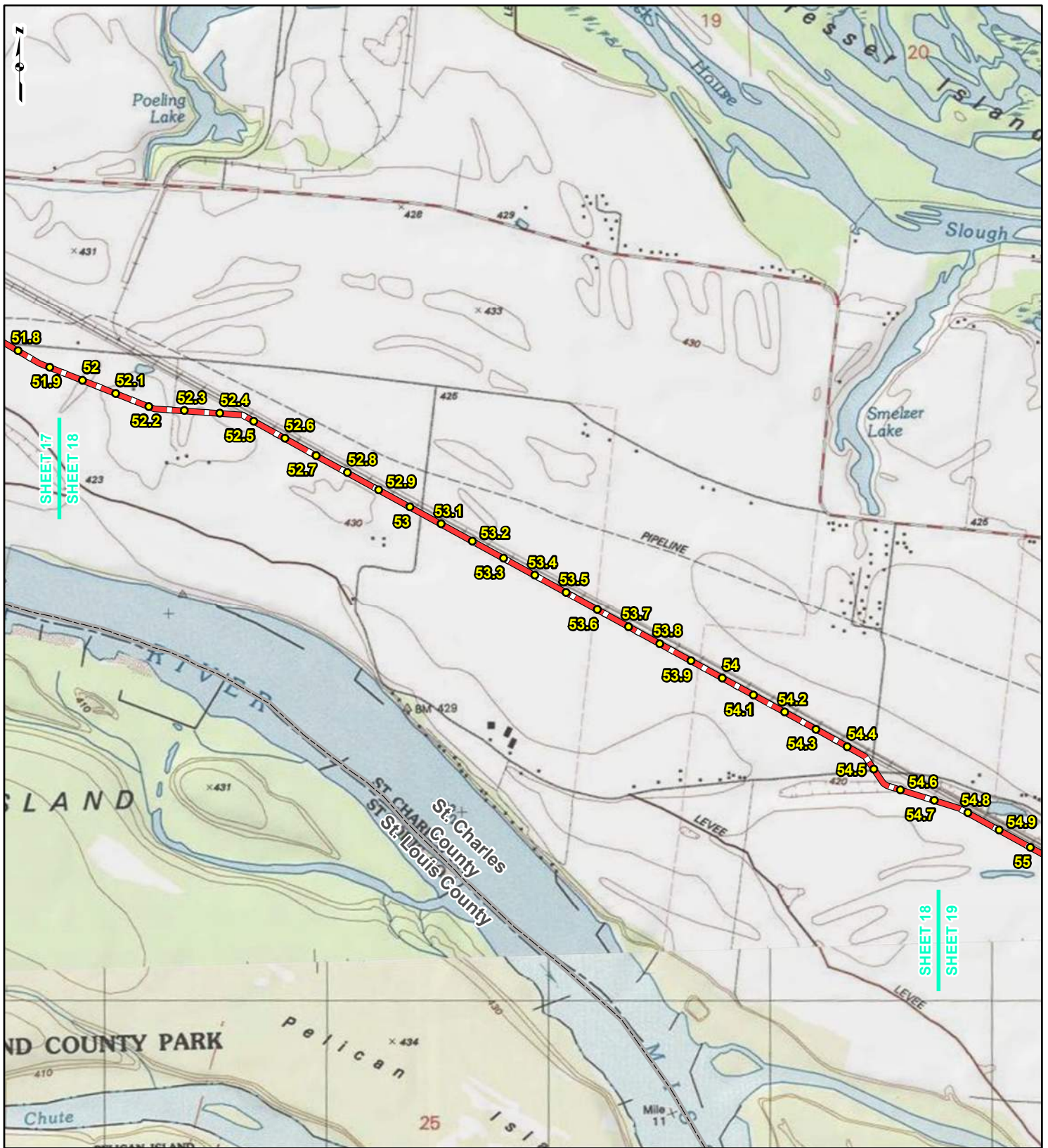
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 17 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

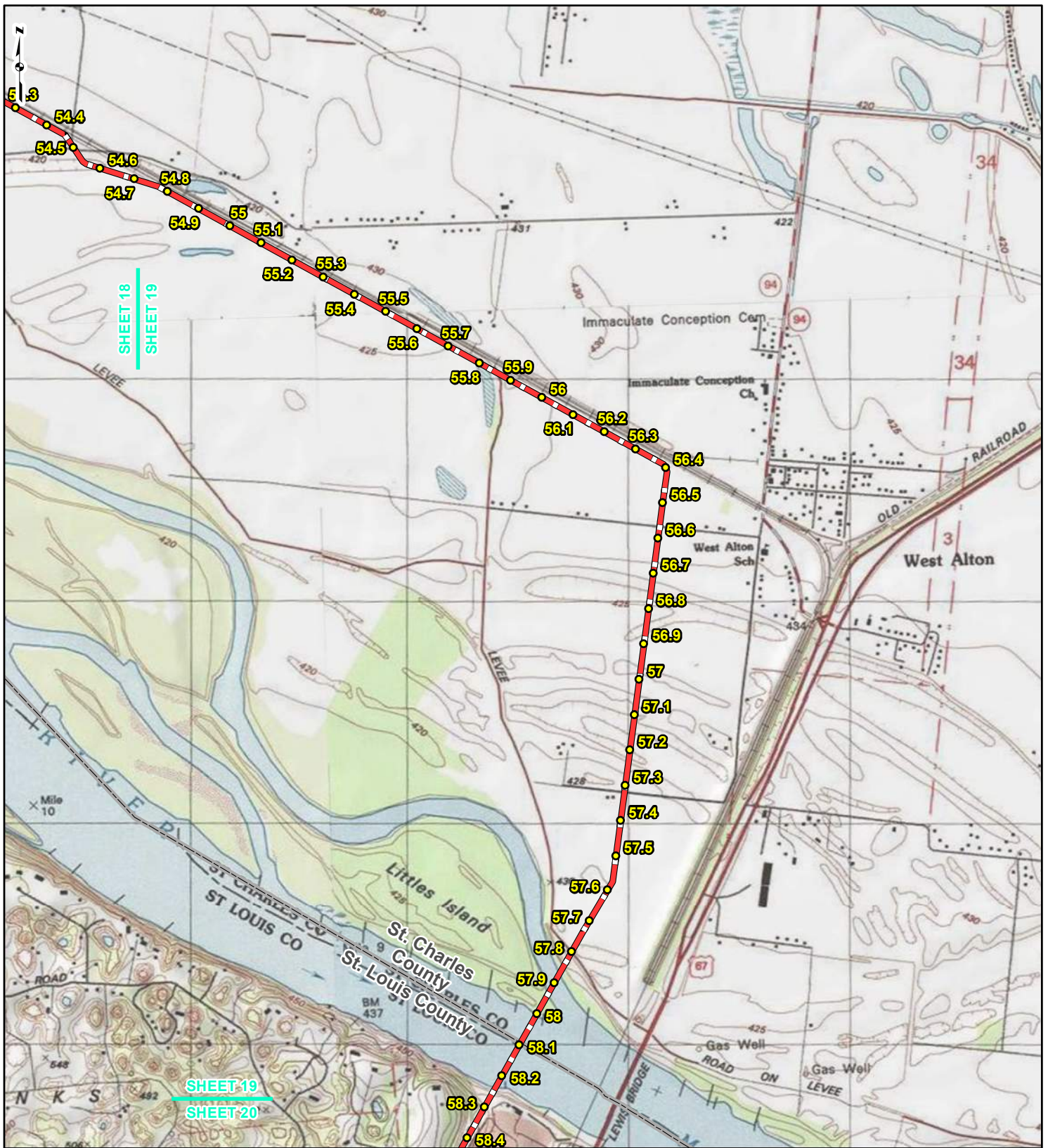
0 1,000 2,000 4,000
Feet

**FIGURE 1
LOCATION MAP
SHEET 18 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
● NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

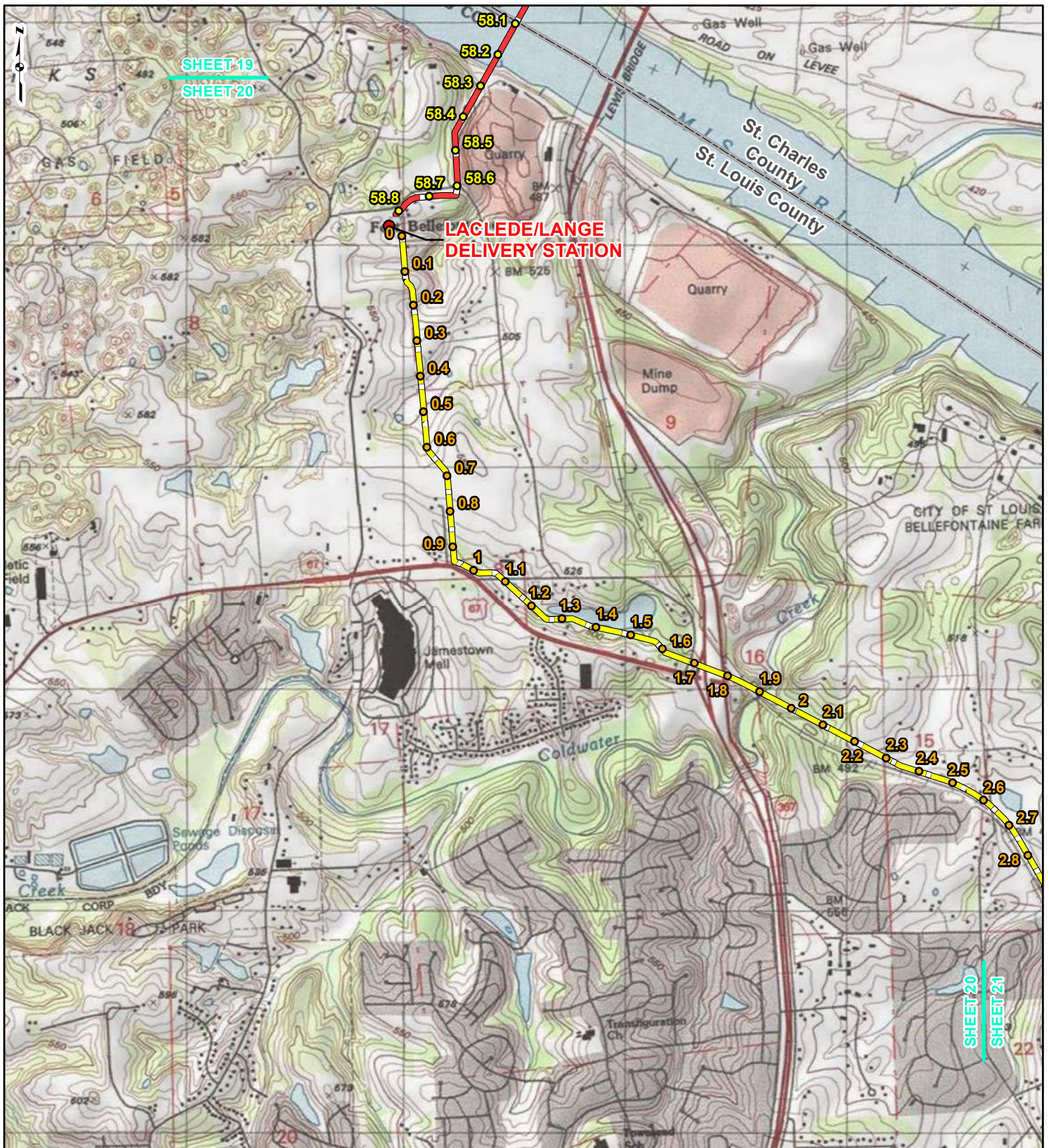
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 19 OF 21

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE MILEPOST	— 24-INCH PIPELINE EXTENSION
● NORTH COUNTY MILEPOST	▭ COUNTY BOUNDARY
● EXTENSION MILEPOST	▭ STATE BOUNDARY

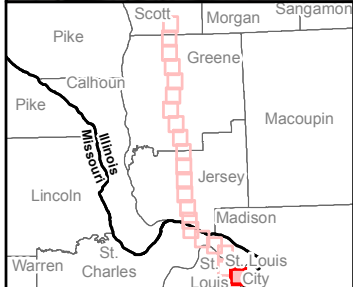
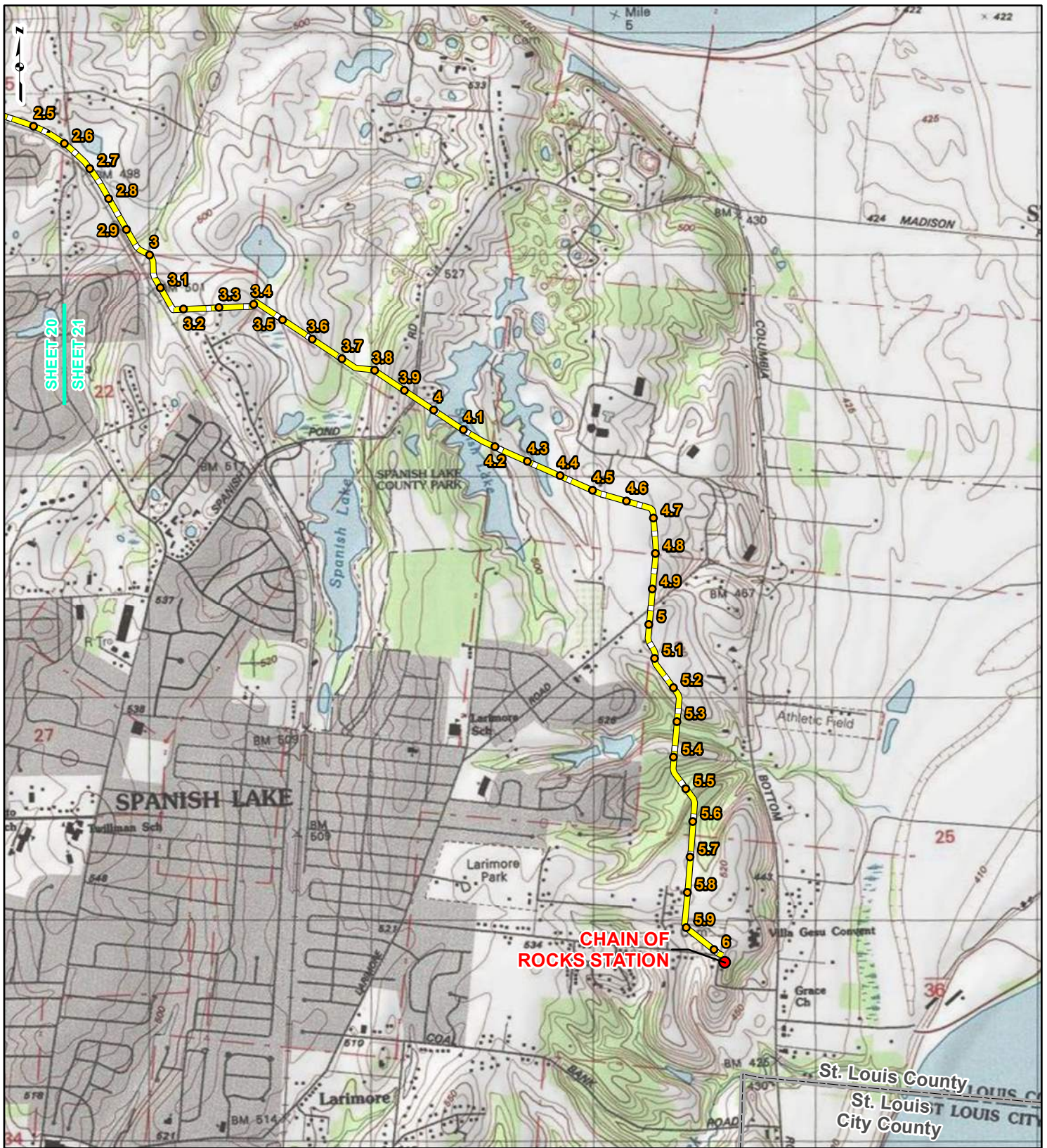
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 20 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ELSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE EXTENSION	— 24-INCH PIPELINE EXTENSION
● NORTH COUNTY MILEPOST	▭ COUNTY BOUNDARY
● EXTENSION MILEPOST	▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 21 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.

Ali Trunzo

From: Lori Ferry
Sent: Wednesday, March 22, 2017 2:13 PM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline AIMA

From: Lori Ferry
Sent: Tuesday, March 21, 2017 4:27 PM
To: 'Savko, Terry' <Terry.Savko@Illinois.gov>
Cc: Chard, Steve <Steve.Chard@Illinois.gov>
Subject: RE: Spire STL Pipeline AIMA

Thank you both!! The entire Spire team appreciates it!
Yes, please send us an invoice for the mailing and we can work on putting that through.

Lori

From: Savko, Terry [mailto:Terry.Savko@Illinois.gov]
Sent: Tuesday, March 21, 2017 1:31 PM
To: Lori Ferry <L.Ferry@gaiconsultants.com>
Cc: Chard, Steve <Steve.Chard@Illinois.gov>
Subject: Spire STL Pipeline AIMA

Good morning, Lori.

Attached is the scanned version of the Spire STL Pipeline AIMA. Copies have been made, landowner envelopes stuffed and delivered to the mailroom.

In addition, Spire's signed copy has been mailed in the stamped, labeled envelope you provided.

I will let you know what the total mailing cost is when it is relayed to me from the mail room.

Thank you again for your assistance in getting the AIMA written and executed.

Terry Savko, IL Dept of Agriculture
Bureau of Land and Water Resources
State Fairgrounds, P.O. Box 19281, Springfield, IL 62794-9281
217.785.4458 terry.savko@illinois.gov

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Ali Trunzo

From: Lori Ferry
Sent: Friday, March 17, 2017 12:51 PM
To: Ali Trunzo
Subject: FW: Spire STL-Check In

From: Savko, Terry [mailto:Terry.Savko@Illinois.gov]
Sent: Friday, March 17, 2017 11:19 AM
To: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: RE: Spire STL-Check In

Hi Lori,

*And a **Happy Wearing of the Green Day** to you too!*

Thanks for checking in. Yes, I received your labels and the envelopes are ready to go. The document is in the General Counsel's Office. More soon.
Terry

Terry Savko, IL Dept of Agriculture
Bureau of Land and Water Resources
State Fairgrounds, P.O. Box 19281, Springfield, IL 62794-9281
217.785.4458 terry.savko@illinois.gov





From: Lori Ferry [mailto:L.Ferry@gaiconsultants.com]
Sent: Friday, March 17, 2017 10:36 AM
To: Savko, Terry <Terry.Savko@Illinois.gov>
Subject: [External] Spire STL-Check In


Hi Terry
Happy St. Patty's Day!
Just checking in to see that you received the mailing labels this week and if we had an executed agreement to send out.

Please let me know whenever you are able.

Happy Friday,
Lori

Lori Ferry
Environmental Manager-Energy Business Unit

GAI Consultants
Chicago Office | 1444 Farnsworth Avenue, Suite 303 Aurora, Illinois 60505
T 331.301.2002 M 630.605.5255 | gaiconsultants.com |    
l.ferry@gaiconsultants.com

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Ali Trunzo

From: Lori Ferry
Sent: Wednesday, March 08, 2017 4:42 PM
To: Ali Trunzo
Subject: FW: [External] RE: Final version for Spire AIMA execution

From: Lori Ferry
Sent: Wednesday, March 08, 2017 3:41 PM
To: 'Savko, Terry' <Terry.Savko@Illinois.gov>
Subject: RE: [External] RE: Final version for Spire AIMA execution





Thank you Terry! My address is below.

Can I go ahead and forward you the mailing labels as well? We are still anticipating to start acquisition in April so just want to make sure you have everything you need.

Thank you!
Lori

Lori Ferry
Environmental Manager-Energy Business Unit

GAI Consultants

Chicago Office | 1444 Farnsworth Avenue, Suite 303 Aurora, Illinois 60505
T 331.301.2002 M 630.605.5255 | gaiconsultants.com |    
l.ferry@gaiconsultants.com

From: Savko, Terry [mailto:Terry.Savko@Illinois.gov]
Sent: Wednesday, March 08, 2017 3:34 PM
To: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: RE: [External] RE: Final version for Spire AIMA execution

Your two signed copies have gone to the front office for execution. Once they are returned to me, I will contact you. One executed document will be scanned and emailed to you prior to mailing the hard copy. Do you want the signed copy mailed to you?

If so, I need a mailing address.

Terry Savko, IL Dept of Agriculture
Bureau of Land and Water Resources
State Fairgrounds, P.O. Box 19281, Springfield, IL 62794-9281
217.785.4458 terry.savko@illinois.gov

From: Lori Ferry [mailto:L.Ferry@gaiconsultants.com]
Sent: Tuesday, February 28, 2017 9:34 PM
To: Savko, Terry <Terry.Savko@Illinois.gov>
Cc: Chard, Steve <Steve.Chard@Illinois.gov>; Ali Trunzo <A.Trunzo@gaiconsultants.com>
Subject: [External] RE: Final version for Spire AIMA execution

Hi Terry

Thanks for this information. This is now in the hands of Spire legal for final review and signature. I will keep you posted as soon as I have notification that it was sent out.

Thanks,
Lori

From: Savko, Terry [<mailto:Terry.Savko@Illinois.gov>]

Sent: Thursday, February 23, 2017 4:43 PM

To: Lori Ferry <L.Ferry@gaiconsultants.com>

Cc: Chard, Steve <Steve.Chard@Illinois.gov>

Subject: Final version for Spire AIMA execution

Hi Lori,

I've gone through the tracked document and cleaned up the paragraphs, numberings and deletions to keep items together.

The final document now fits on 16 pages instead of 17 pages. Please review the changes. Questions or comments? Please call me.

As far as the Attachments go, we agree. You can send your documents with them or I can add them when I scan/email the signed version to you.

I will include them in your original AIMA that will go out in the next day's mail.

If the final version meets your approval, please print 2 copies and have Mr. Armesto sign. Then send them to me at the address listed below.

After we finish this step, we can discuss the mailing labels.

Terry

Terry Savko, IL Dept of Agriculture

Bureau of Land and Water Resources

State Fairgrounds, P.O. Box 19281, Springfield, IL 62794-9281

217.785.4458 terry.savko@illinois.gov

State of Illinois - CONFIDENTIALITY NOTICE: The information contained in this communication is confidential, may be attorney-client privileged or attorney work product, may constitute inside information or internal deliberative staff communication, and is intended only for the use of the addressee. Unauthorized use, disclosure or copying of this communication or any part thereof is strictly prohibited and may be unlawful. If you have received this communication in error, please notify the sender immediately by return e-mail and destroy this communication and all copies thereof, including all attachments. Receipt by an unintended recipient does not waive attorney-client privilege, attorney work product privilege, or any other exemption from disclosure.

Ali Trunzo

From: Savko, Terry <Terry.Savko@Illinois.gov>
Sent: Wednesday, March 01, 2017 10:05 AM
To: Lori Ferry
Cc: Chard, Steve; Ali Trunzo
Subject: RE: [External] RE: Final version for Spire AIMA execution

Thank you, Lori.

Terry Savko, IL Dept of Agriculture
Bureau of Land and Water Resources
State Fairgrounds, P.O. Box 19281, Springfield, IL 62794-9281
217.785.4458 terry.savko@illinois.gov

From: Lori Ferry [mailto:L.Ferry@gaiconsultants.com]
Sent: Tuesday, February 28, 2017 9:34 PM
To: Savko, Terry <Terry.Savko@Illinois.gov>
Cc: Chard, Steve <Steve.Chard@Illinois.gov>; Ali Trunzo <A.Trunzo@gaiconsultants.com>
Subject: [External] RE: Final version for Spire AIMA execution

Hi Terry

Thanks for this information. This is now in the hands of Spire legal for final review and signature. I will keep you posted as soon as I have notification that it was sent out.

Thanks,
Lori

From: Savko, Terry [mailto:Terry.Savko@Illinois.gov]
Sent: Thursday, February 23, 2017 4:43 PM
To: Lori Ferry <L.Ferry@gaiconsultants.com>
Cc: Chard, Steve <Steve.Chard@Illinois.gov>
Subject: Final version for Spire AIMA execution

Hi Lori,

I've gone through the tracked document and cleaned up the paragraphs, numberings and deletions to keep items together.

The final document now fits on 16 pages instead of 17 pages. Please review the changes. Questions or comments? Please call me.

As far as the Attachments go, we agree. You can send your documents with them or I can add them when I scan/email the signed version to you.

I will include them in your original AIMA that will go out in the next day's mail.

If the final version meets your approval, please print 2 copies and have Mr. Armesto sign. Then send them to me at the address listed below.

After we finish this step, we can discuss the mailing labels.

Terry

Terry Savko, IL Dept of Agriculture
Bureau of Land and Water Resources

State Fairgrounds, P.O. Box 19281, Springfield, IL 62794-9281
217.785.4458 terry.savko@illinois.gov

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Illinois Historic Preservation Agency



April 21, 2017

Ms. Rachel Leibowitz
Division Manager and Deputy SHPO
Illinois Historic Preservation Agency
1 Old State Capitol Plaza
Springfield, Illinois 62701-1507

**Re: Submittal of Technical Report - Addendum I
Phase I Archaeological Survey
IHPA Log #: 005080216
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois**

Dear Ms. Leibowitz:

Spire STL Pipeline LLC ("Spire"), a wholly owned subsidiary of Spire Inc., is seeking authorization from the Federal Energy Regulatory Commission pursuant to Section 7(c) of the Natural Gas Act to construct and operate the proposed Spire STL Pipeline Project ("Project") located in Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri. The total length of the Project pipelines will be approximately 65 miles, of which approximately 45.35 miles are in Illinois.

GAI Consultants, Inc. ("GAI") conducted a supplemental Phase I archaeological survey in February and March 2017 to survey alternative Project alignments to avoid impacts to archaeological sites Potentially Eligible for listing in the National Register of Historic Places ("NRHP"), and parcels where survey permission has been granted since the initial Phase I field session concluded in December 2016. The Area of Potential Effect ("APE") for the supplemental archaeological investigations was defined as the direct impact APE, or the area of ground disturbance anticipated for the construction activities. For the purposes of the supplemental archaeological survey, in order to accommodate Project design changes throughout the process, the APE within the Illinois portion of the Project consists of a 300-foot-wide study corridor centered on the proposed pipeline route, a 100-foot-wide study corridor for each access road, and the footprint of the workspace needed for a proposed contractor yard/staging area.

The total APE for the Illinois portion of the Project was 698.8 hectares (1,726.8 acres). Of this, 88.27 hectares (218.13 acres) was surveyed during the supplemental Phase I investigation in February and March 2017, 518.39 hectares (1,280.98 acres) was previously surveyed, and 92.16 hectares (227.73 acres) was not surveyed due to land access restrictions or avoidance via horizontal directional drilling.

During the supplemental Phase I survey in February and March 2017, 34 archaeological sites and six isolated finds were identified. Of these 34 sites, four were previously recorded: 11GE738, 11GE757, 11GE758, and 11JY665. All six isolated finds were newly identified. Two of the 34 sites are recommended Eligible for the NRHP: 11GE757 and 11GE758. Based on current Project design, both sites are located outside the construction right-of-way, and impacts to the sites will be avoided. Therefore, GAI recommends no further work at Sites 11GE757 and 11GE758. The remaining 32 sites and six isolated finds are recommended Not Eligible for NRHP listing, and no further work is recommended. Impacts to the 10 archaeological sites recommended Potentially Eligible for listing in the NRHP in the initial Phase I cultural resource report for the proposed Project are being avoided as a result of the supplemental Phase I survey, which include: 11ST613, 11GE789, 11GE773, 11GE757, 11GE758, 11JY700, 11JY698, 11JY699, 11JY661, and 11JY680.

The indirect impact APE is considered to be the area of potential visual impact on historic-period architectural resources within the line-of-sight (viewshed) of the construction workspace and/or right-of-way and related aboveground facilities. As the Project will be primarily subterranean, the impact to architectural and historical resources is expected to be minimal, primarily stemming from minor proposed aboveground pipeline facilities (i.e., meter stations, pig launchers/receivers, and valves). Based on a review of the supplemental APE within the Illinois portion of the proposed Project, all architectural/historical resources located in the supplemental APE were surveyed during GAI's prior historical resources reconnaissance survey and included in the initial Phase I cultural resource report (Scuoteguazza et al. 2017). If additional field surveys are conducted for architectural and historical resources, Spire will submit supplemental Phase I reports to the Illinois Historic Preservation Agency as required.

GAI, on behalf of Spire, is requesting your review and concurrence of the attached addendum technical report presenting the cultural resources results and recommendations for the Project.

We look forward to continuing to work with you on this Project. Please contact Mr. Eric Scuoteguazza at 412.399.5188 or e.scuoteguazza@gaiconsultants.com, if there are questions regarding this report.

Sincerely,

GAI Consultants, Inc.



Eric P. Scuoteguazza, M.A., M.B.A., RPA
Senior Manager, Cultural Resources



Lori M. Ferry
Environmental Project Manager

EPS:LMF/gmg

Attachments: Attachment 1 (Technical Report - Addendum Report, Phase I Archaeological Survey) and Attachment 2 (Archaeological Survey Short Report)

Reference

Scuoteguazza, Eric P., Richard B. Duncan, Jonathan Glenn, Angela Hood, Meghan Mooney, Susan Pugh-Rose, Evelyn M. Tidlow, and Elizabeth Williams
2017 Technical Report, Phase I Archaeological Survey and Architectural and Historical Resources Reconnaissance Survey. GAI Consultants, Inc. Submitted to Spire STL Pipeline LLC. Copies available from the Illinois Historic Preservation Agency, Springfield, Illinois.



April 10, 2016

Ms. Rachel Leibowitz
Division Manager and Deputy SHPO
Illinois Historic Preservation Agency
1 Old State Capitol Plaza
Springfield, Illinois 62701-1507

**Re: Unanticipated Discoveries Plan for Cultural Resources
Spire STL Pipeline LLC
Spire STL Pipeline
Scott, Greene and Jersey Counties, Illinois**

Dear Ms. Leibowitz:

Spire STL Pipeline LLC ("Spire") is in the planning stages of the Spire STL Pipeline ("Project"), located in Scott, Greene, and Jersey Counties in Illinois and in St. Charles and St. Louis Counties in Missouri. Spire retained GAI Consultants, Inc. to conduct required cultural resources studies. Construction and operation of the proposed Project will be regulated by the Federal Energy Regulatory Commission ("Commission") among other regulatory agencies.

On October 28, 2016, Spire had provided the Illinois Historic Preservation Agency with the Project's Unanticipated Discoveries Plan for Cultural Resources in Illinois. Spire has revised the Unanticipated Discoveries Plan for Cultural Resources in Missouri, based on the Commission's comments to the previous submission. I have enclosed a copy of that revised plan for your review and for your files.

Thank you for your consideration of this matter. If you have any questions regarding this submission, please feel free to contact me at 412.399.5188, or by e-mail at e.scuoteguazza@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

A handwritten signature in blue ink that reads 'Eric Scuoteguazza'.

Eric Scuoteguazza
Senior Cultural Resources Manager

Attachment: Unanticipated Discoveries Plan for Cultural Resources in Illinois

April 10, 2017
Project E160438.00

ATTACHMENT:
UNANTICIPATED DISCOVERIES PLAN FOR CULTURAL RESOURCES IN ILLINOIS



Spire STL Pipeline Project

Unanticipated Discoveries Plan for Cultural Resources in
Illinois

FERC Docket No. CP17-40-000

January 2017

Public



Table of Contents

Unanticipated Discoveries Plan for Cultural Resources in Illinois	1
1.1 References.....	4



Acronyms and Abbreviations

FERC	Federal Energy Regulatory Commission
IHPA	Illinois Historic Preservation Agency
NHPA	National Historic Preservation Association
NRHP	National Register of Historic Places
Project	Spire STL Pipeline Project
SHPO	State Historic Preservation Office
Spire	Spire STL Pipeline LLC
UDP	Unanticipated Discoveries Plan



Unanticipated Discoveries Plan for Cultural Resources in Illinois

This Unanticipated Discoveries Plan (“UDP”) details the procedures that will be implemented by Spire STL Pipeline LLC (“Spire”) and its contractors to handle the unanticipated discovery of cultural resources that may be encountered during construction of the proposed Spire STL Pipeline Project (“Project”). This plan was developed in accordance with 36CFR800.13 (Post-Review Discovery clause), as well as the following regulations:

- Illinois Historic Preservation Agency’s (“IHPA”) *Guidelines for Archaeological Reconnaissance Survey/Reports* (IHPA no date);
- Illinois State Agency Historic Resources Preservation Act (20 ILCS 3420);
- Illinois Archaeological and Paleontological Resources Protection Act (20 ILCS 3435); and,
- Illinois Human Skeletal Remains Protection Act (20 ILCS 3440).

All construction work force members have the responsibility to monitor construction sites for potential archaeological remains throughout construction. Archaeological remains consist of man-made objects or features greater than 50 years of age. These remains include, but are not limited to, items such as artifacts (e.g., stone flakes, stone tools, ceramics, glass, architectural material), fire pits, building foundations, and human remains. If, during the course of construction, potential archaeological remains are identified, the Environmental or Chief Inspector will immediately halt work in the vicinity (minimum of 25 feet) of the potential find. The Environmental Inspector will notify the Spire Environmental Project Manager. Work in the immediate area of the discovery will not resume until treatment of the discovery has been completed.

The Spire Environmental Project Manager will notify the IHPA and the Federal Energy Regulatory Commission (“FERC”), and will hire a state-approved archaeological consultant who will evaluate the site and provide an immediate verbal recommendation to Spire, FERC, and the IHPA regarding the eligibility status of the site. Spire’s Environmental Manager will continue to consult with the FERC and IHPA’s office, as per the requirements of Section 106 of the National Historic Preservation Act of 1966 (“NHPA”). Communications, such as consultation, transmittals, and reports may be provided via e-mail, as appropriate and acceptable to each agency. Contact information for the various agencies is listed below:



Environmental Inspector

To be determined

Chief Inspector

To be determined

Spire Environmental Project Manager

Russell English
Spire, Inc.
700 Market Street
St. Louis, Missouri 63101
314-956-5221
russell.english@SpireEnergy.com

Spire Project Manager

Russell English
Spire, Inc.
700 Market Street
St. Louis, Missouri 63101
314-956-5221
russell.english@SpireEnergy.com

IHPA

Rachel Leibowitz, Division Manager and Deputy
State Historic Preservation Office (“SHPO”)
Illinois Historic Preservation Agency
1 Old State Capital Plaza
Springfield, Illinois 62701-1507
217-785-5031
rachel.leibowitz@illinois.gov

FERC

Laurie Boros, Archaeologist
Federal Energy Regulatory Commission
888 1st Street NE
Room 1A
Washington, D.C. 20426
202-502-8046
laurie.boros@ferc.gov

Greene County Coroner

Dean Bishop
P.O. Box 207,
Greenfield, Illinois 62044
217-368-2202

Greene County Sheriff’s Office

403 7th Street
Carrollton, Illinois 62016
217-942-6901

Jersey County Coroner

Larry Alexander
108 North Liberty
Jerseyville, Illinois 62052
618-498-2711

Jersey County Sheriff’s Office

114 North Washington
Jerseyville, Illinois 62052
618-498-6881

Scott County Coroner

David King, Jr.
35 East Market Street
Winchester, Illinois 62094
217-742-3141

Scott County Sheriff’s Office

35 East Market Street
Winchester, Illinois 62094
217-742-5217



If the unanticipated discovery is determined to be ineligible for inclusion in the National Register of Historic Places (“NRHP”), Spire will proceed with construction following written concurrence from the IHPA and approval from FERC. If the site is determined to be potentially eligible for inclusion in the NRHP, additional work, such as a Determination of Eligibility or Data Recovery, will be performed as required/approved by the IHPA and FERC. Further construction work at the site will be suspended until all criteria of Section 106 of the NHPA and other related federal and state regulations have been successfully completed. Construction activities will be kept a minimum of 25 feet from the site (dependent on the site type, location, construction design, and agency consultation) and separated from the site by temporary fencing.

In the event that human remains are discovered during construction, the Environmental or Chief Inspector will immediately halt work and notify the Spire Environmental Project Manager, the county coroner’s office, and the IHPA. If the county coroner is not available, the Environmental Inspector will contact the local law enforcement agency. The Environmental Inspector will ensure that human remains are protected from further damage, intrusion, or removal until proper examinations can be performed. Provision for security to protect suspected burials from vandalism will be taken, including monitoring of the area. Discovery of human remains should not be made public, including but not limited to, conversations with local residents, posting on social media, or communication with news outlets. Construction activities including vehicle traffic will be kept a minimum of 25 feet from the remains (dependent on the location, construction design, and agency consultation) and separated by temporary fencing. If remains are found not to be of recent origin, the Spire Environmental Project Manager will contact the IHPA and FERC to ensure that relevant laws are followed. As soon as a determination has been made that the human remains are Native American, Spire will contact appropriate tribal representatives for the region in which the remains were found. If the remains are not Native American and not associated with a crime scene, guidance in *National Register Bulletin 41: Guidelines for Evaluating and Registering Cemeteries and Burial Places* (Potter and Boland 1992) will be taken into account. A reasonable attempt will be made to identify the next of kin. Spire’s Environmental Manager will notify FERC of the situation and will continue to keep FERC informed as to the progress of further consultation. Spire will attempt to redesign the Project to avoid impact to the human remains. Only if avoidance is not possible will Spire proceed with removal of the human remains.

If the unanticipated discovery of human remains is determined by the IHPA and FERC to be ineligible for inclusion in the NRHP, Spire will proceed with coordinating the proper removal of the remains through cooperation from the local police, the medical examiner, the IHPA, and FERC. Only after the human remains have been properly removed from the site should construction of the pipeline facilities in the site area be resumed.

Under no circumstances should human remains be removed from the site without completing all permitting and coordination processes with the local police, the medical examiner, the IHPA, Native American representatives as appropriate, and FERC. Further work at the site will be suspended until all criteria of Section 106 of the NHPA and other related state and federal regulations have been successfully completed.



1.1 References

Potter E.W. and B.M. Boland. 1992. *National Register Bulletin 41: Guidelines for Evaluating and Registering Cemeteries and Burial Places*. U.S. Department of the Interior, National Park Service. Washington, D.C.

Illinois Historic Preservation Agency (IHPA). No Date. *Guidelines for Archaeological Reconnaissance Survey/Reports*. Illinois Historic Preservation Agency, Springfield. Accessed electronically, September 2016, <https://www.illinois.gov/iHPA/Preserve/Pages/Archaeology.aspx>.



GAI Consultants, Inc.-Chicago Office
2300 Cabot Drive, Suite 395
Lisle, Illinois 60532

T 630.605.5255

March 28, 2017

Ms. Heidi Brown-McCreery
Director of Illinois Historic Preservation Agency
Illinois Historic Preservation Agency
1 Old State Capitol Plaza
Springfield, IL 62701-1507

**Re: Supplemental Information (Docket No. CP17-40)
Spire STL Pipeline LLC
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Ms. Brown-McCreery:

In June 2016, Spire Pipeline LLC ("Spire") initiated consultation with your office regarding their intent to construct, own, and operate the proposed Spire STL Pipeline Project ("Project") which consisted of approximately 59 miles of new, greenfield 24-inch-diameter steel pipeline (referred to as the "24-inch pipeline") originating at an interconnection with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois; extending down through Greene and Jersey counties in Illinois before crossing the Mississippi River and extending east into St. Charles County, Missouri, crossing the Missouri River and tying into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Line 880 consisted of approximately seven miles of existing 20-inch-diameter steel pipeline. As part of the proposed Project, Spire was planning on modifying Line 880 before placing it in to interstate service. The Project also included the construction of minor aboveground metering and regulating ("M&R") stations. On January 26, 2017, Spire filed an application with the Federal Energy Regulatory Commission ("FERC") for a Certificate of Public Convenience and Necessity for the Project (Docket No. CP17-40-000).

On March 15, 2017, Spire filed a "Preliminary Notification of Preferred Route Change" with FERC, indicating that the Spire no longer plans to modify the existing Line 880 as part of the Project. Instead, Spire intends to construct a new, greenfield 24-inch pipeline (referred to as the "North County Extension") which will extend the 24-inch pipeline portion of the Project to a proposed interconnect with Enable Mississippi River Transmission ("Enable MRT"). Spire plans to file an amended application with FERC in April 2017. GAI Consultants, Inc. ("GAI"), on behalf of Spire, is submitting supplemental information to assist with your review of the Project as amended. An updated description of the proposed Project facilities and location map (Figure 1) are provided herein.

Amended Project Description

The amended Project as proposed will consist of approximately 65 miles of new, greenfield, 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the REX pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with LGC. The second segment of new, greenfield pipeline, North County Extension, will consist of a 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC

interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable MRT and LGC. The total length of the Project pipeline will be approximately 65 miles. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day ("Dth/d"). No compression will be required. The Project also includes the construction of three new M&R stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri.

The acquisition and modifications to LGC's existing Line 880 is no longer proposed as part of the Project.

Spire anticipates a typical 90-foot temporary construction right-of-way width, and a 50-foot permanent easement. The construction right-of-way is anticipated to be reduced to 75 feet at streams and wetlands. An additional 25 feet of temporary work space will be required through agricultural areas, and additional temporary work space will be required to facilitate construction in certain areas, such as crossings of roads, railroads, streams, and wetlands.

The updated Project schedule includes the following target dates:

- July 22, 2016 - National Environmental Policy Act ("NEPA") process began (initiation of FERC Pre-filing process);
- August 2016 through March 2017 (Anticipated) - Biological and Cultural Resource Surveys;
- January 26, 2017 - Application Filed with FERC;
- April 2017 (Anticipated) - File Amended Application with FERC;
- September 2017 (Anticipated) - Draft NEPA Document Published; and
- December 2017 (Anticipated) - FERC Decision on Application.

Construction is anticipated to commence in January 2018.

On behalf of Spire, we'd like to take this opportunity to invite the Illinois Historic Preservation Agency to provide comments regarding the Project as it will be amended. We appreciate your continued involvement and cooperation in the review of this important Project.

If you have any questions or would like additional information, please feel free to contact me at 630.605.5255 or by e-mail at L.Ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

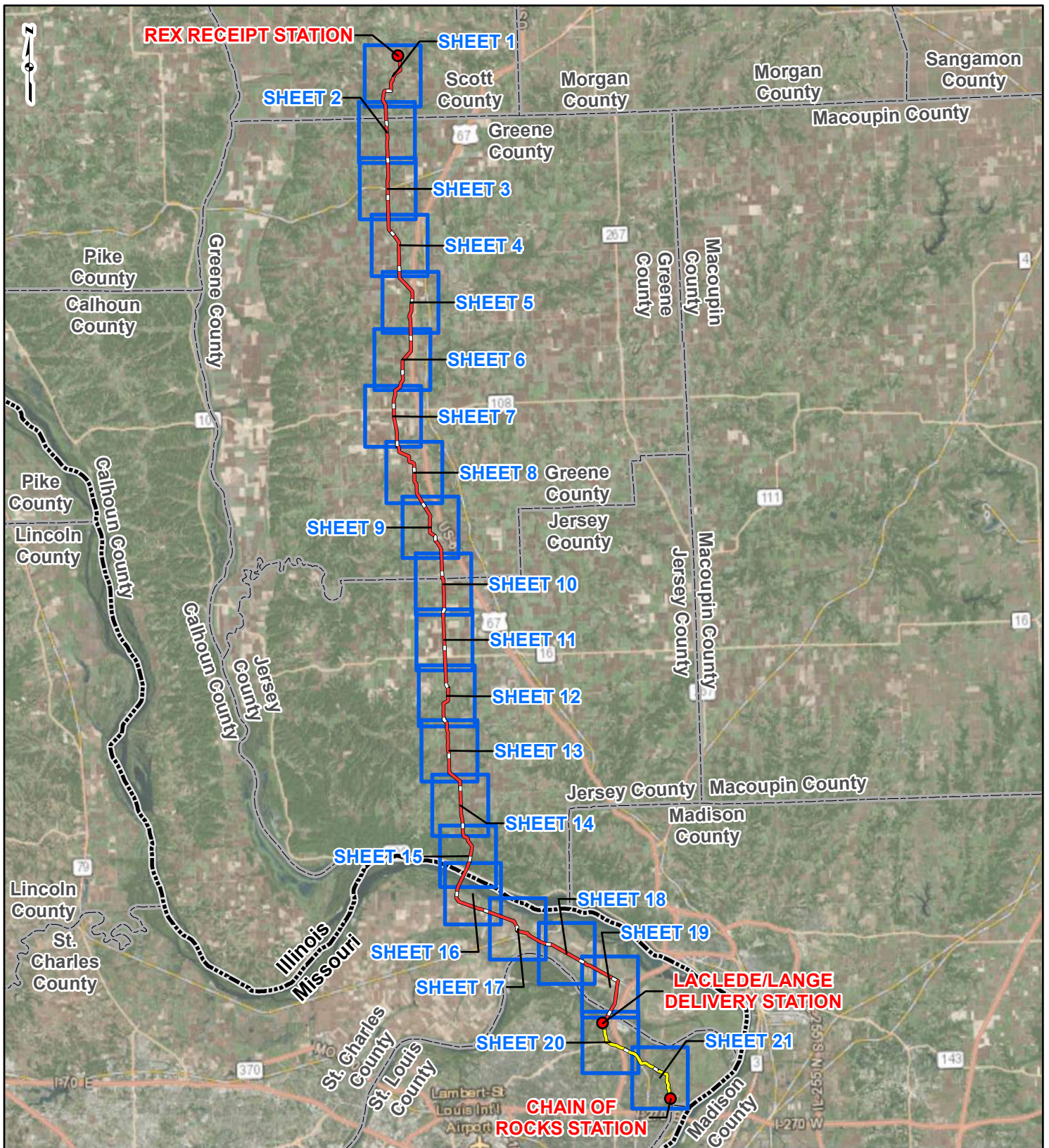


Lori M. Ferry
Environmental Manager

LMF/ka

Attachment: United States Geological Survey (USGS) Topographic Map (Figure 1)

ATTACHMENT
USGS TOPOGRAPHIC MAP (FIGURE 1)



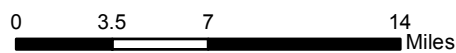
PROJECT LOCATION



SCOTT, GREENE AND JERSEY COUNTIES, ILLINOIS AND ST. CHARLES AND ST. LOUIS COUNTIES, MISSOURI

LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE
- NORTH COUNTY EXTENSION
- SHEET INDEX
- COUNTY BOUNDARY
- STATE BOUNDARY



**FIGURE 1
LOCATION MAP
SHEET INDEX**



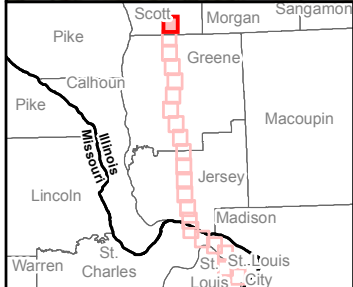
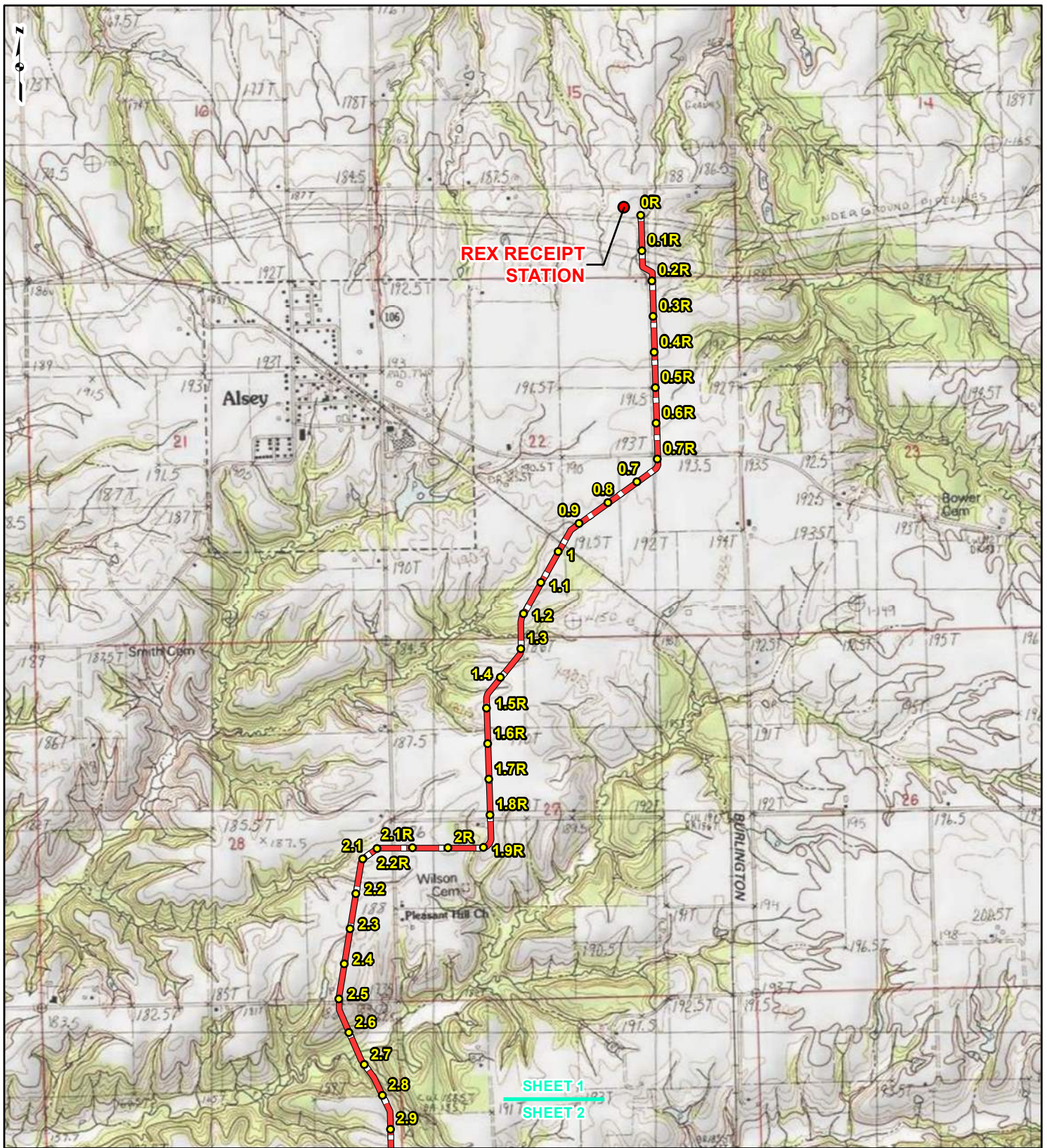
**SPIRE STL
PIPELINE
PROJECT**



DRAWN BY: PMH
CHECKED: SWW

DATE: 3/28/2017
APPROVED: LMF

REFERENCE: ESRI WORLD IMAGERY AND TRANSPORTATION, NAIP, USDA FSA, 2015, ACCESSED 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE MILEPOST	— EXTENSION
○ NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION MILEPOST	▭ STATE BOUNDARY

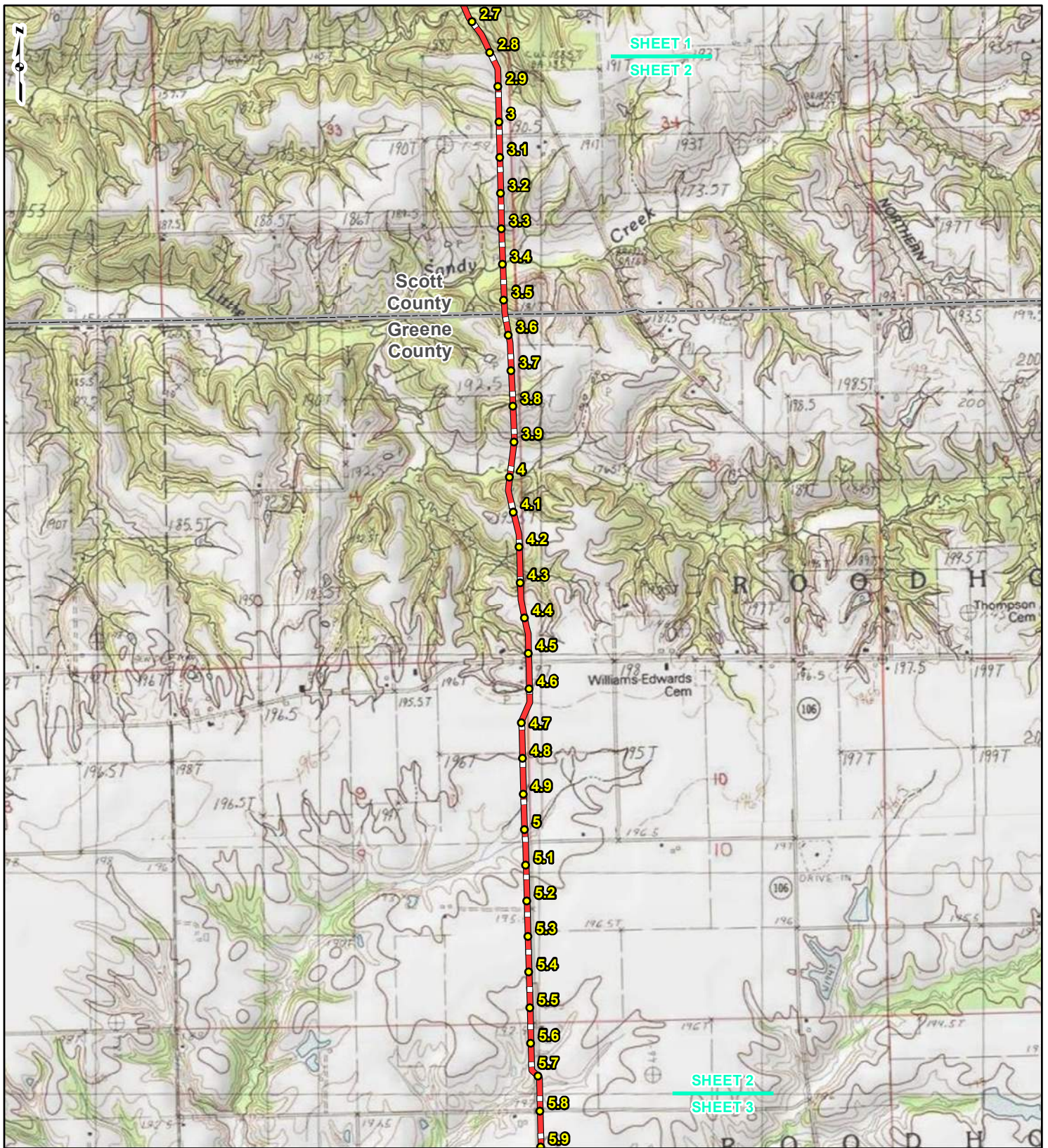
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**FIGURE 1
LOCATION MAP
SHEET 1 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
● STATE BOUNDARY	▭ STATE BOUNDARY

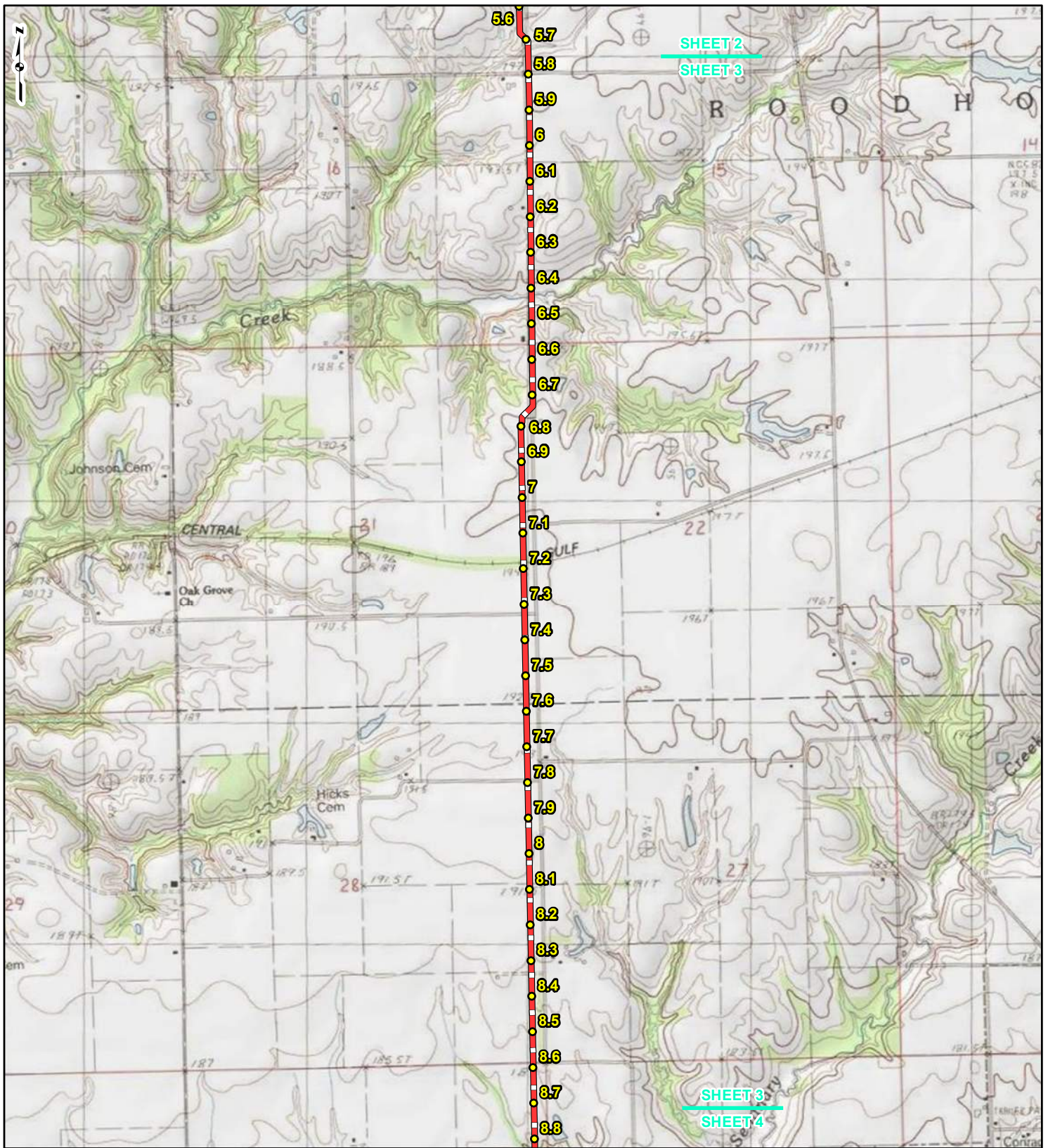
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**FIGURE 1
LOCATION MAP
SHEET 2 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

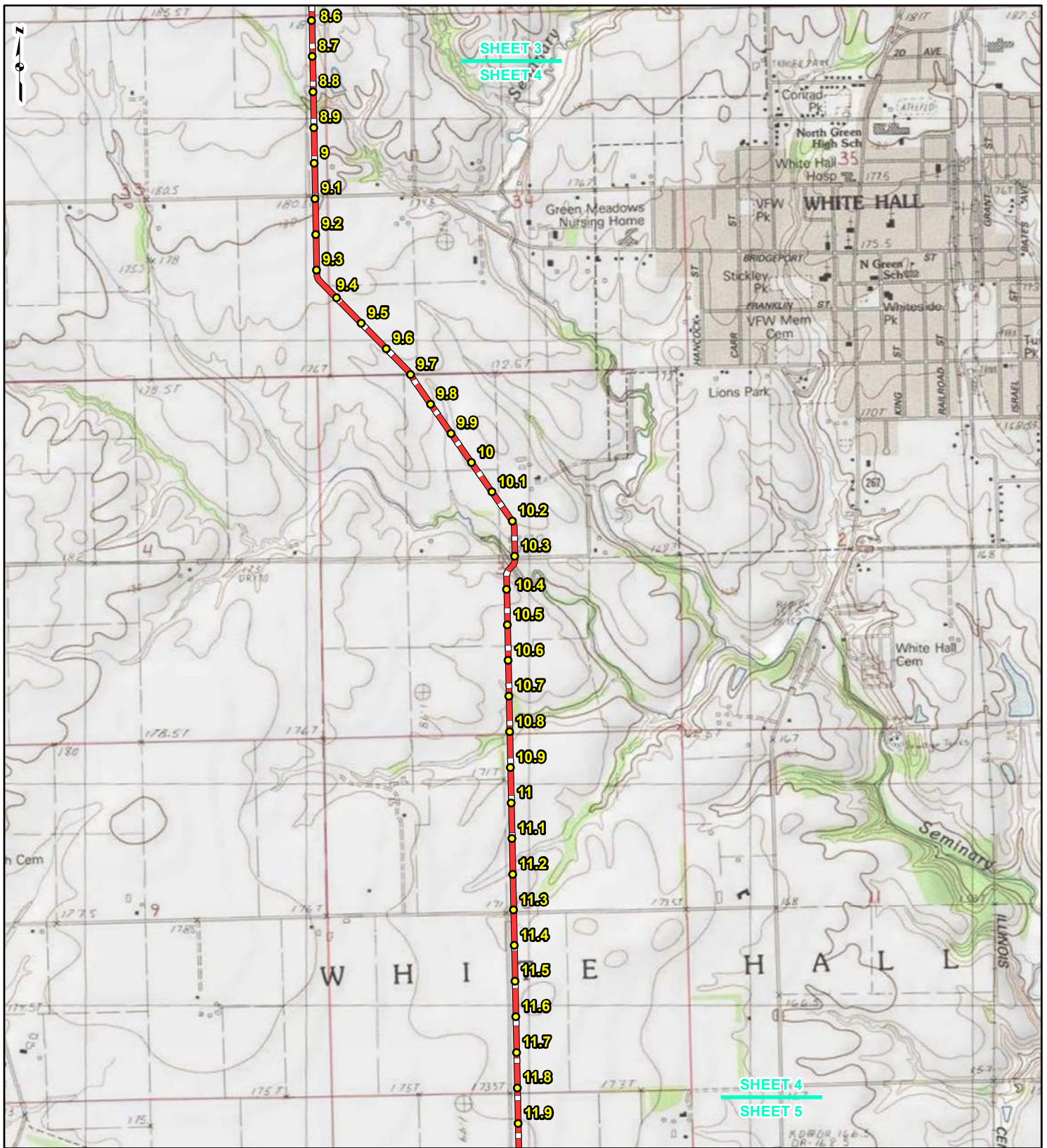
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FIGURE 1
LOCATION MAP
SHEET 3 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSA (1995), FLORISSANT (1995), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
● NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

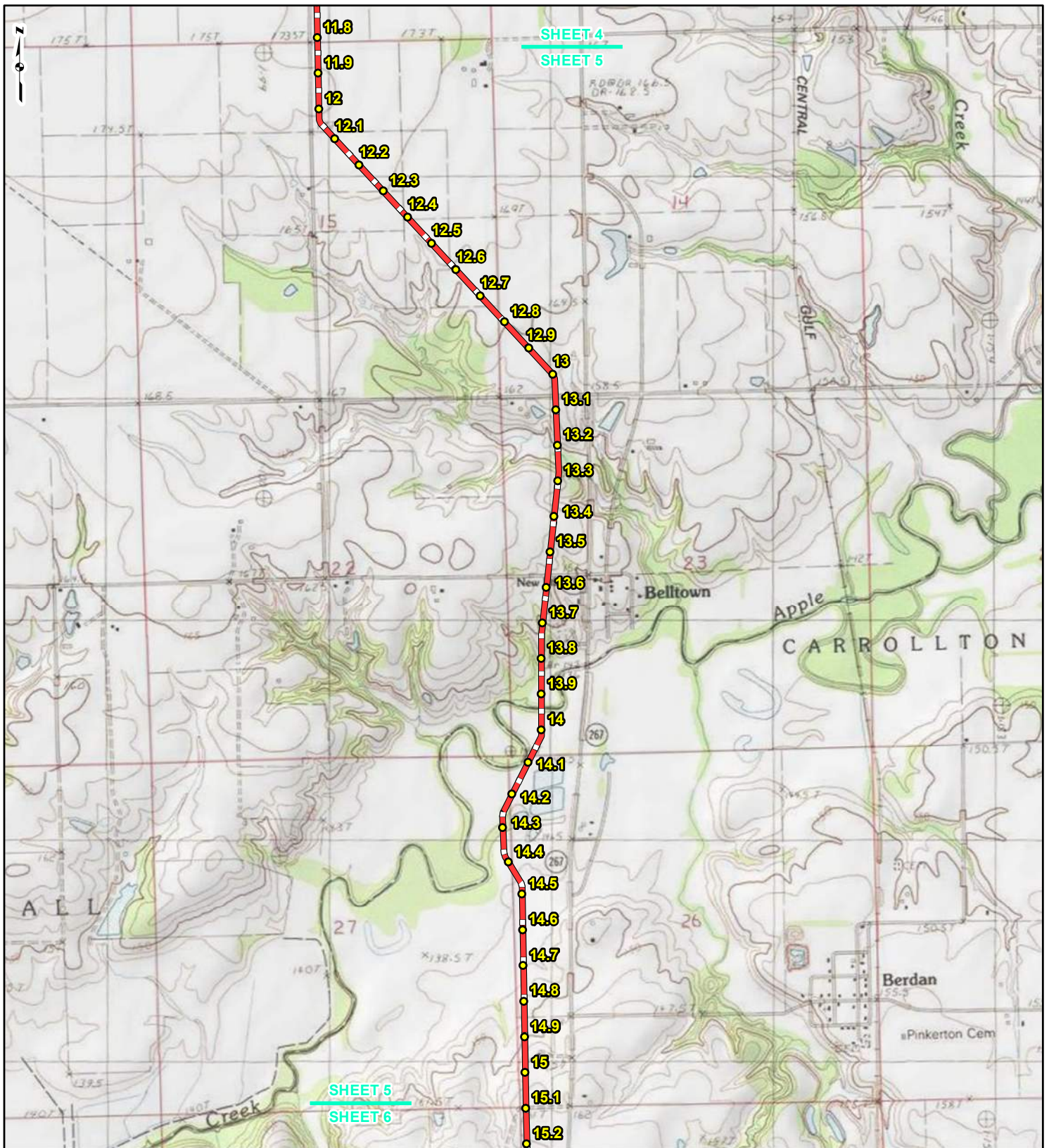
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**FIGURE 1
LOCATION MAP
SHEET 4 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

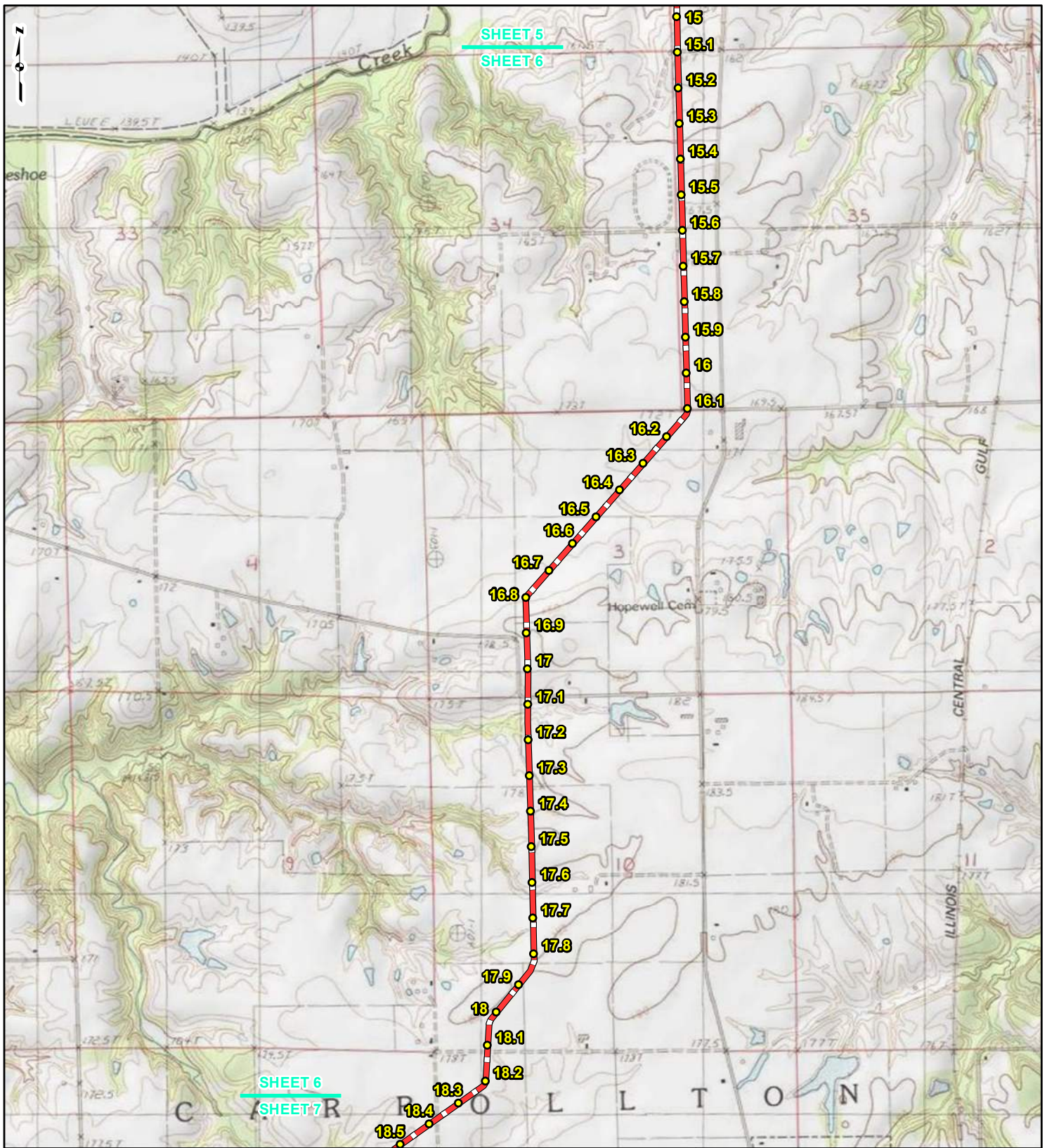
**FIGURE 1
LOCATION MAP
SHEET 5 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

gai consultants

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
— NORTH COUNTY EXTENSION	▭ COUNTY BOUNDARY
● MILEPOST	▭ STATE BOUNDARY

0 1,000 2,000 4,000
Feet

**FIGURE 1
LOCATION MAP
SHEET 6 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

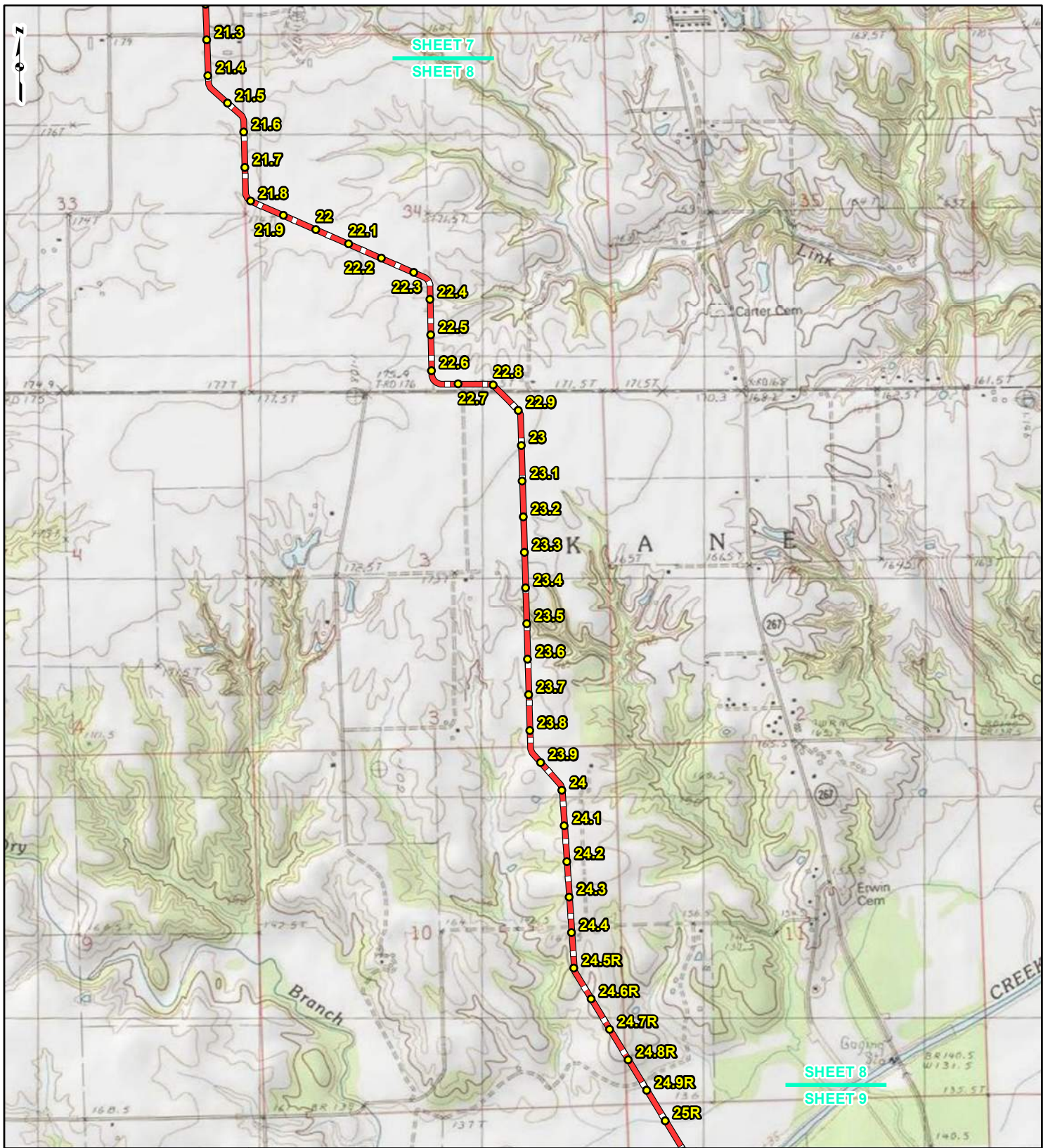
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 7 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

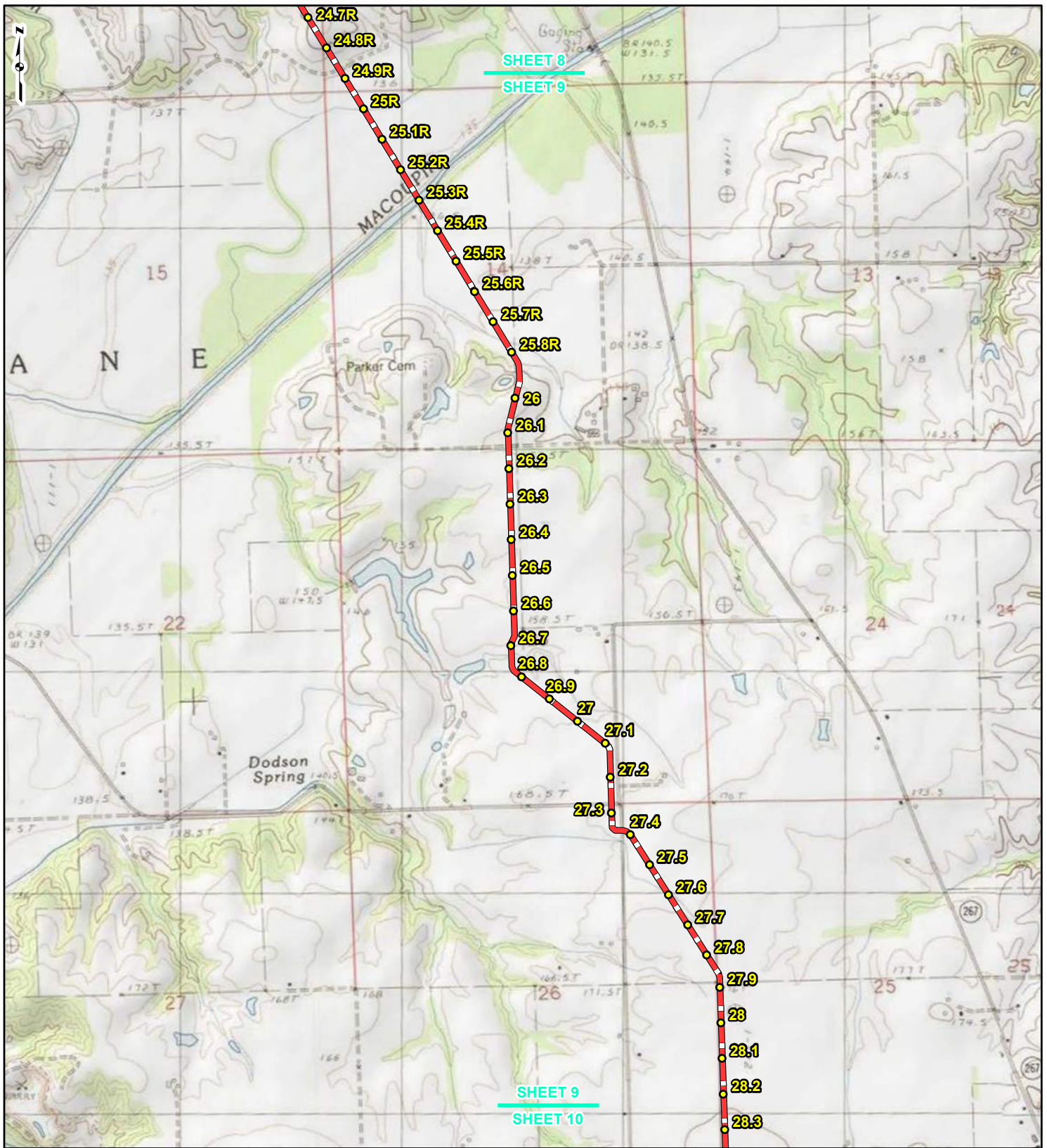
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 8 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

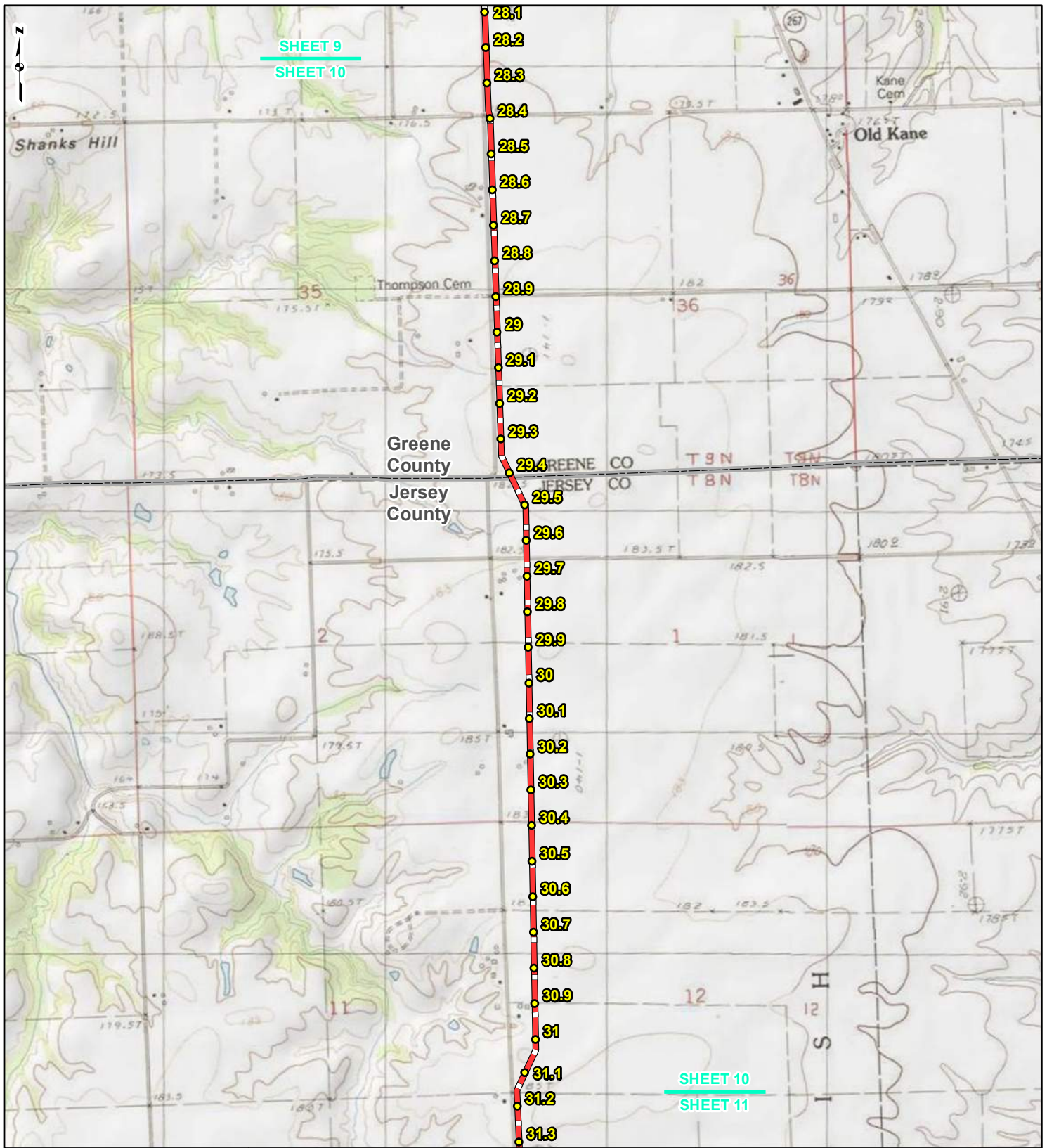
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 9 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

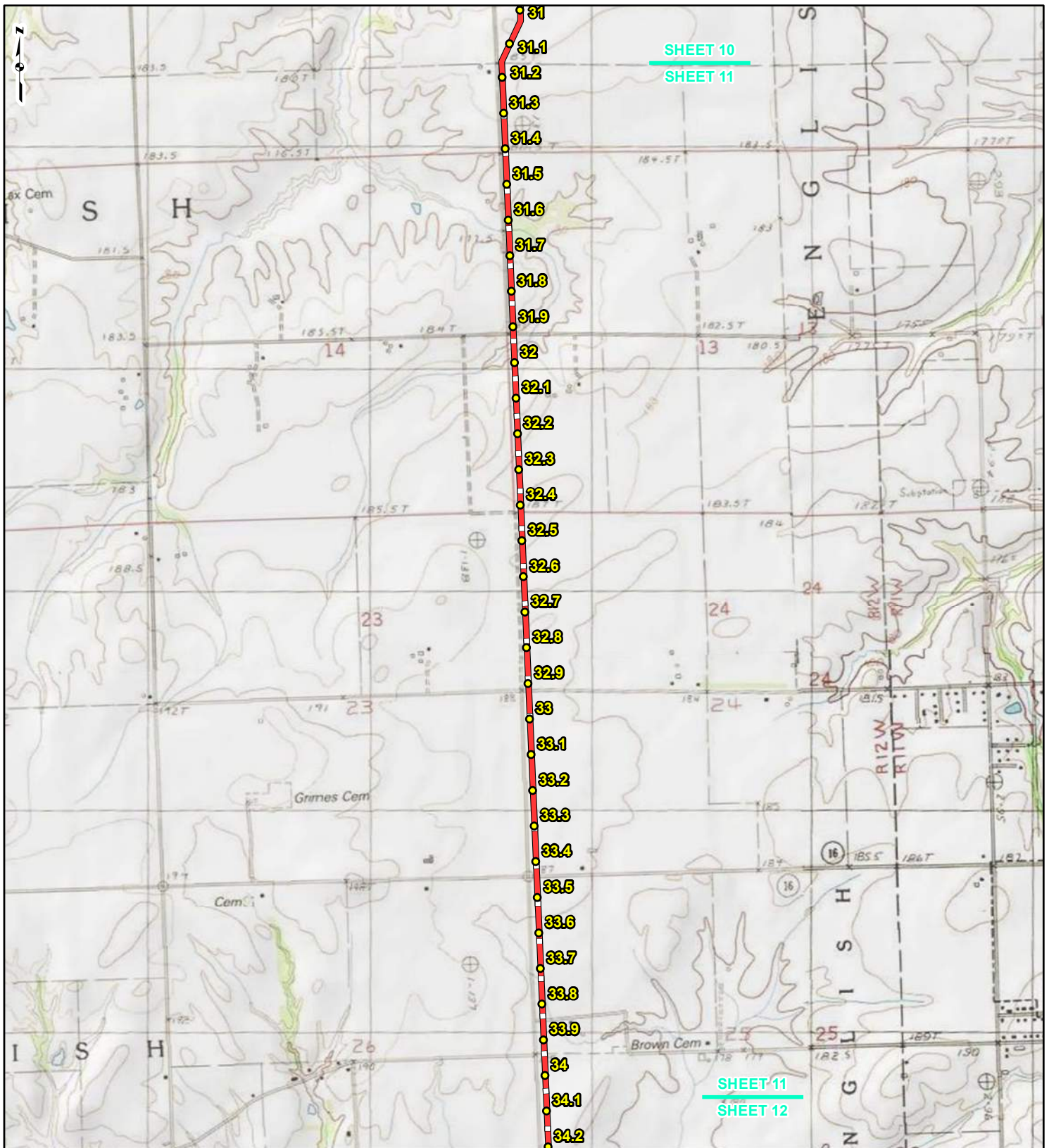
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 10 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), EL SAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	▬ 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	▬ NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▬ COUNTY BOUNDARY
● STATE BOUNDARY	▬ STATE BOUNDARY

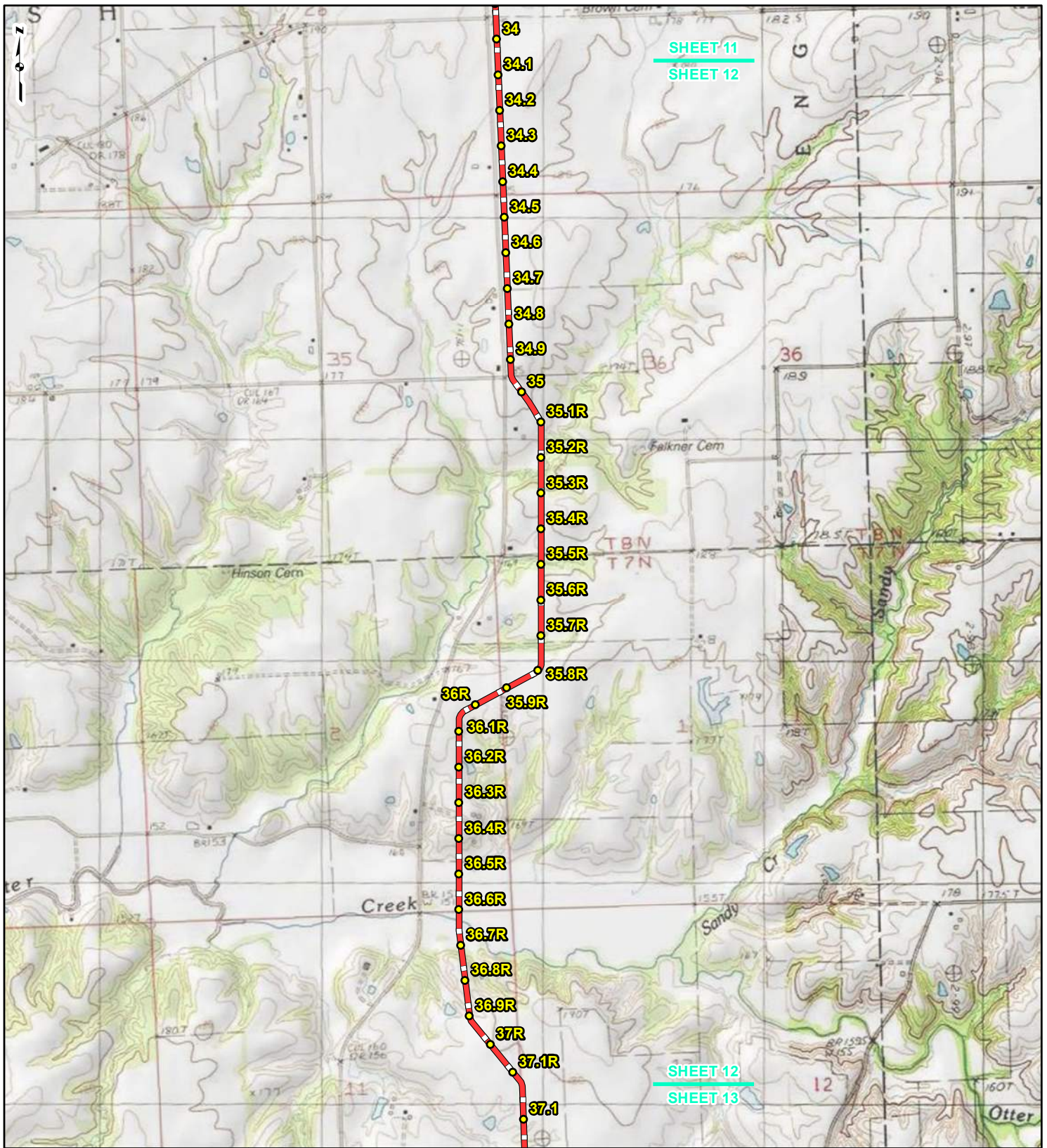
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 11 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), EL SAH (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 03/2017.



SHEET 11
SHEET 12

SHEET 12
SHEET 13



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

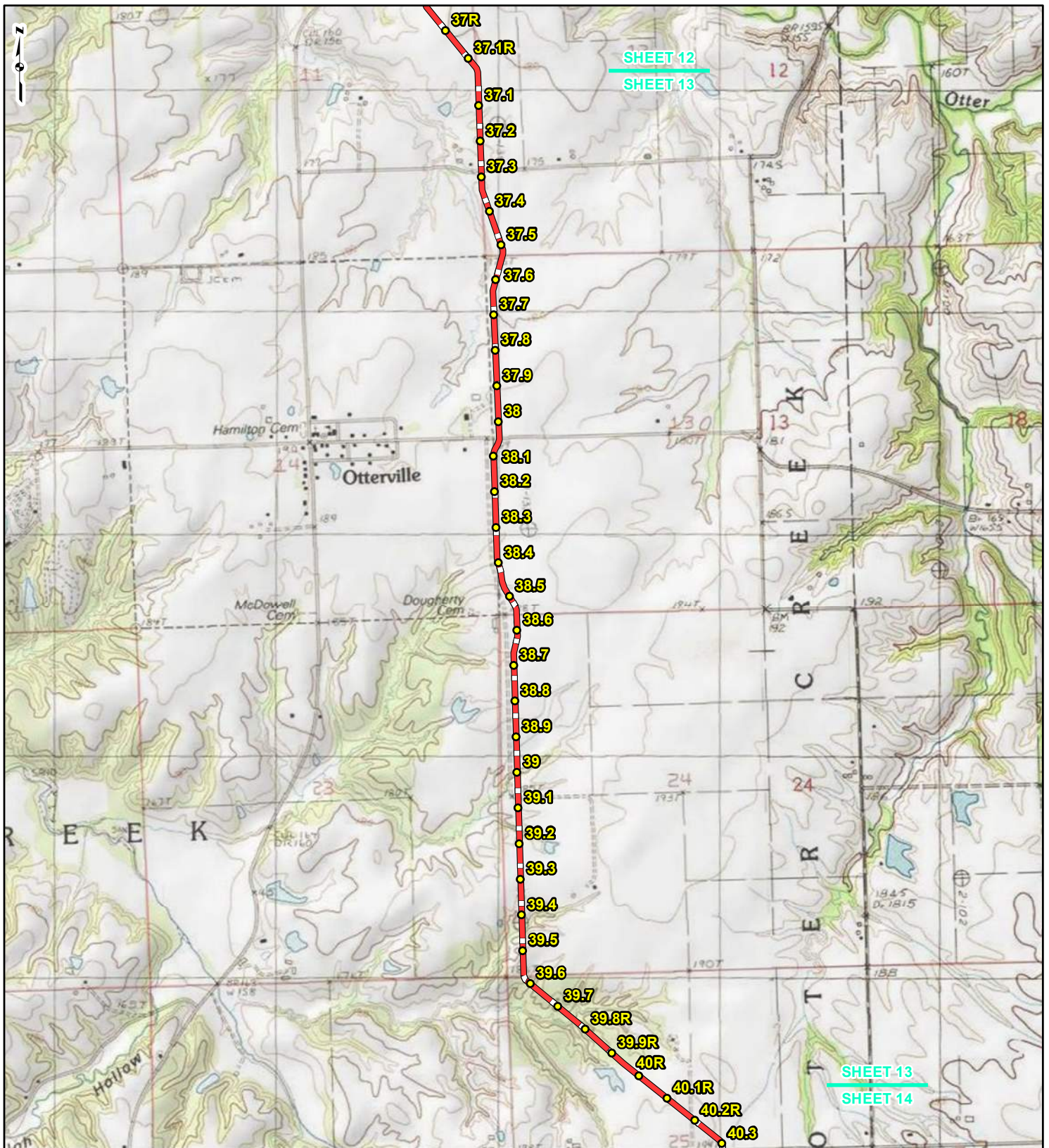
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 12 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

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), OTTERTVILLE (1983) AND ROODHOUSE WEST (1983), ILLINOIS AND MISSOURI, OBTAINED THROUGH ESRI USA TOPO MAPS, NATIONAL GEOGRAPHIC TOPO AND I-CUBED, ACCESSED 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

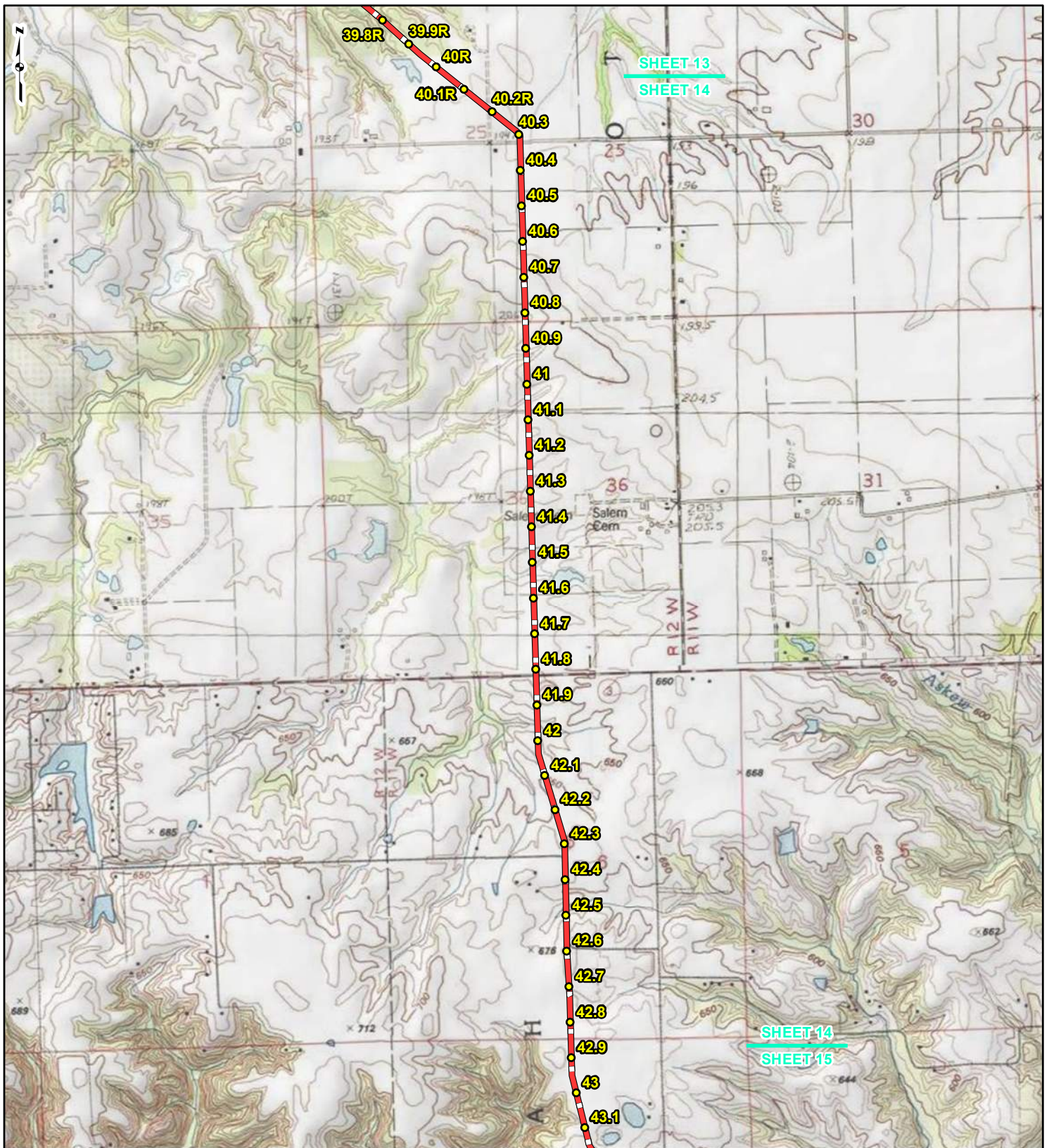
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 13 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

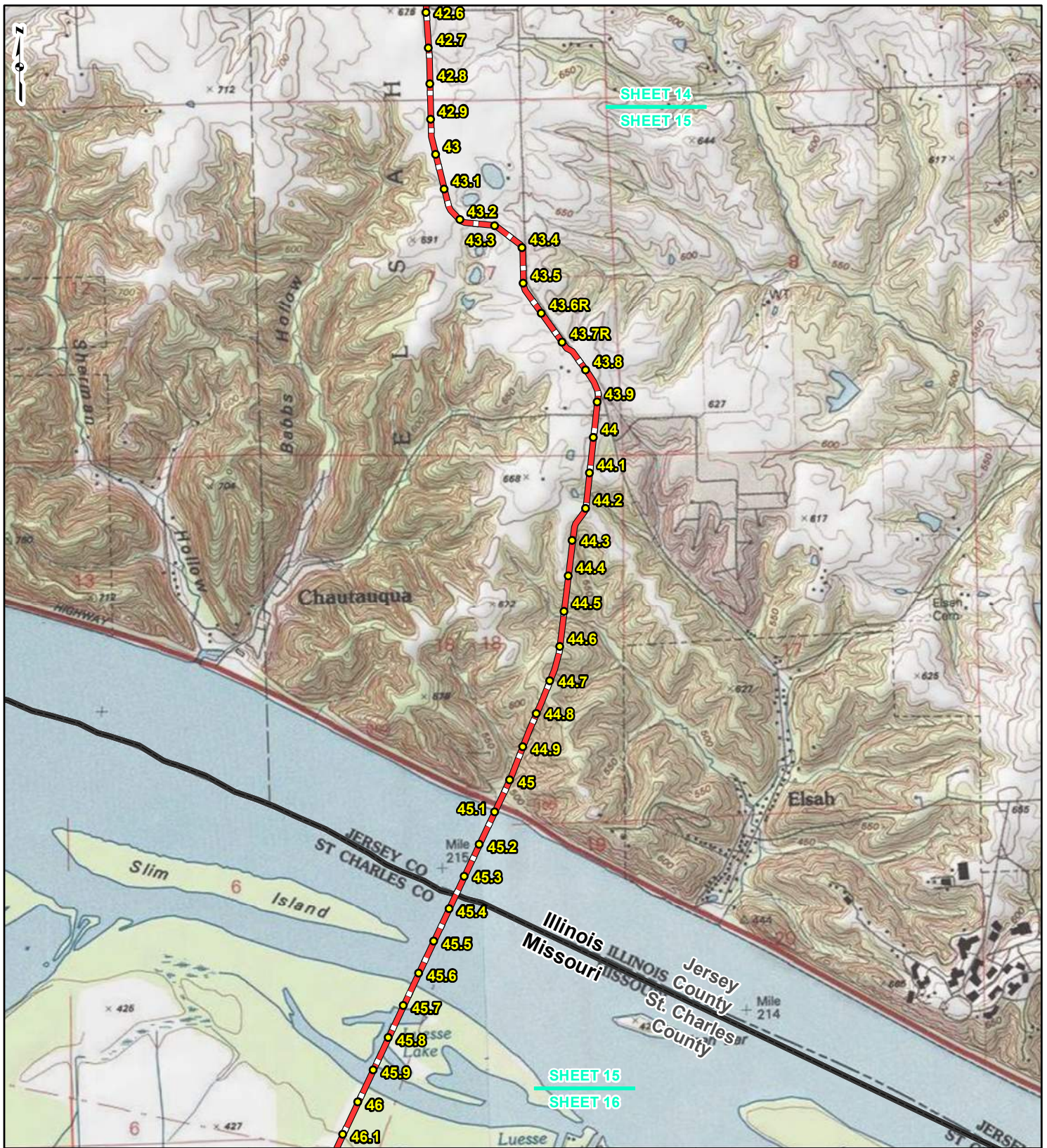
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 14 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE MILEPOST
- NORTH COUNTY EXTENSION MILEPOST
- 24-INCH PIPELINE
- NORTH COUNTY EXTENSION
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

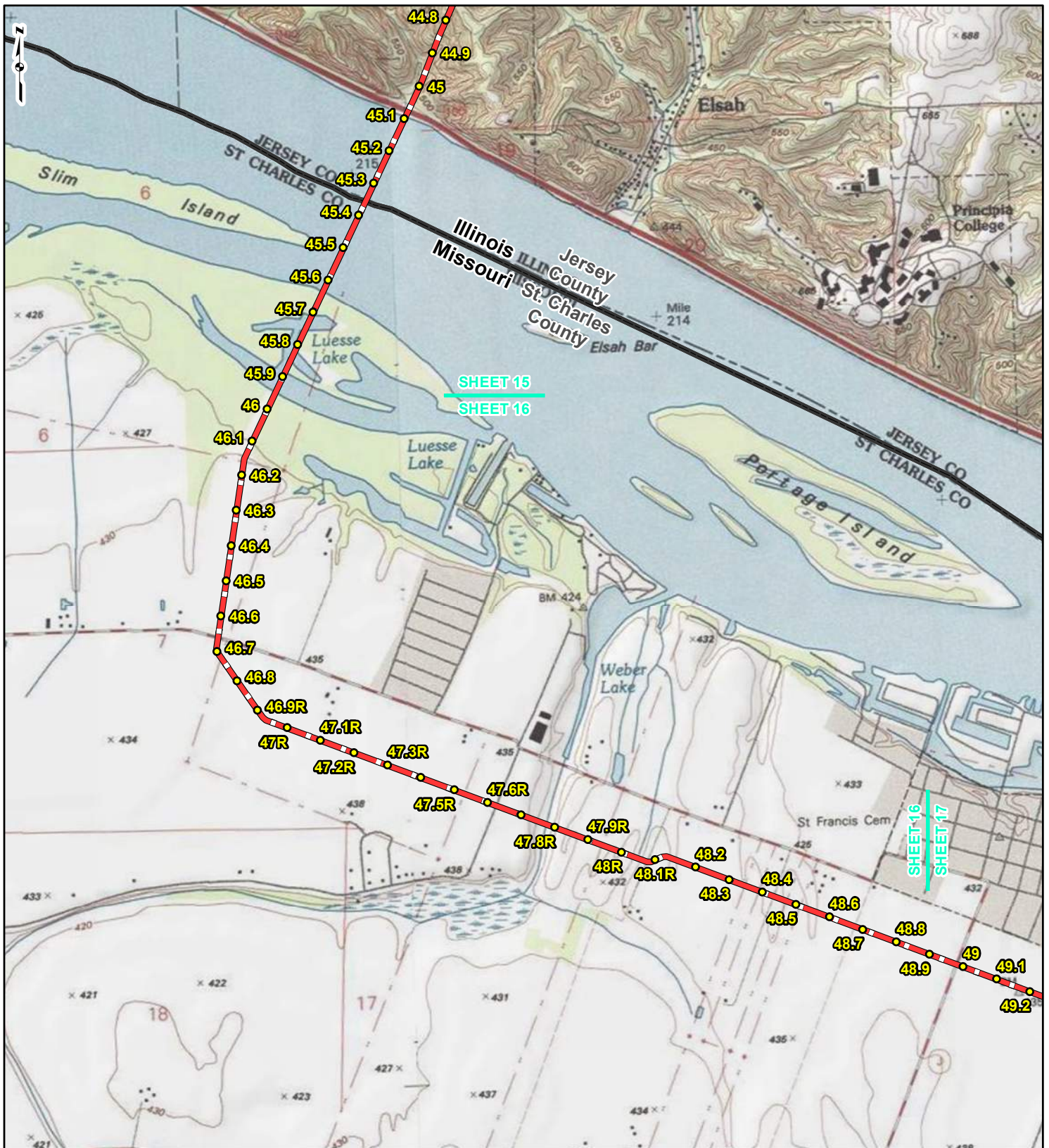
FIGURE 1
LOCATION MAP
SHEET 15 OF 21

SPIRE STL PIPELINE PROJECT

gai consultants **spire**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



SHEET 15
SHEET 16

SHEET 16
SHEET 17



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

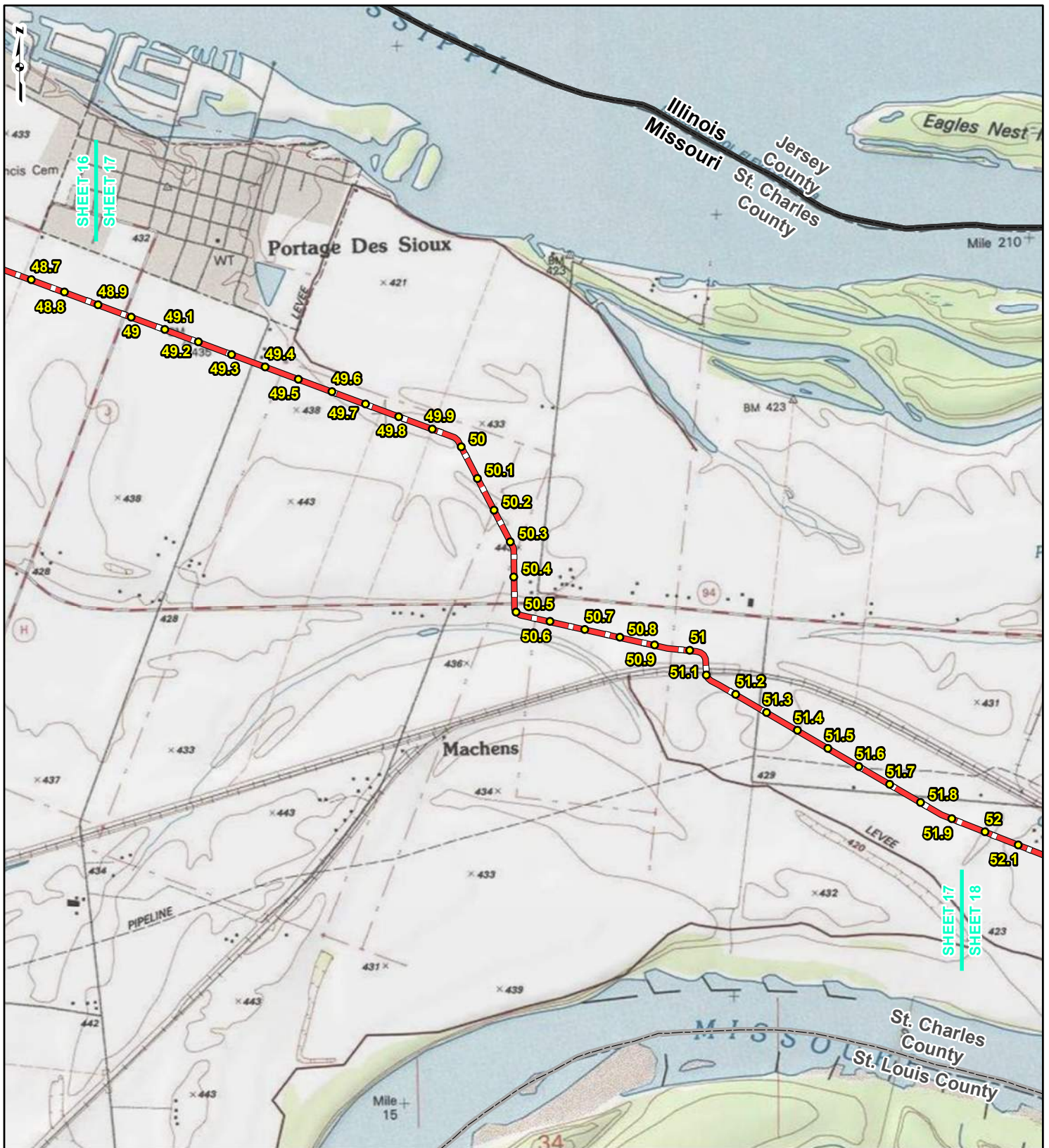
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 16 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

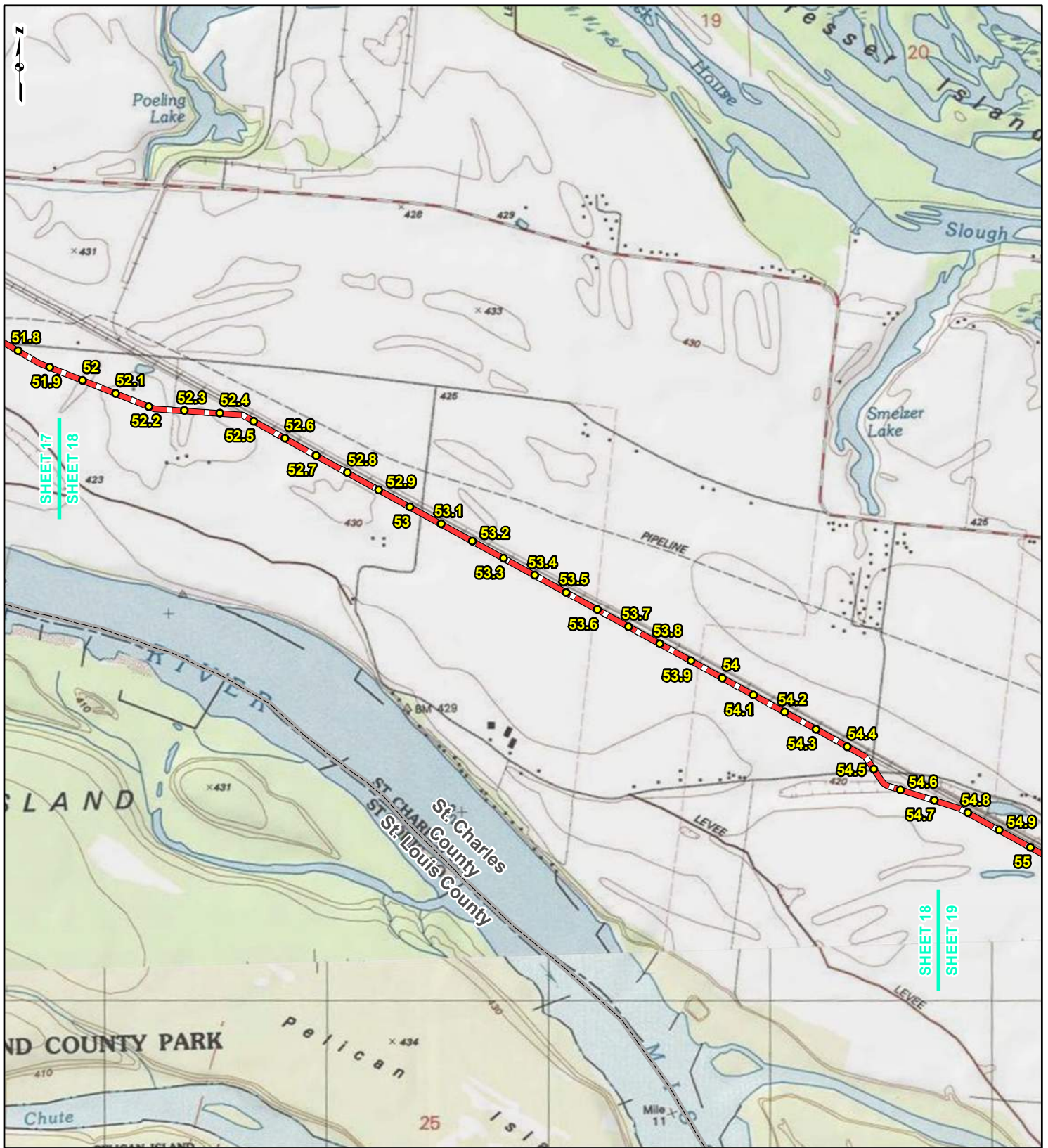
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 17 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
● STATE BOUNDARY	▭ STATE BOUNDARY

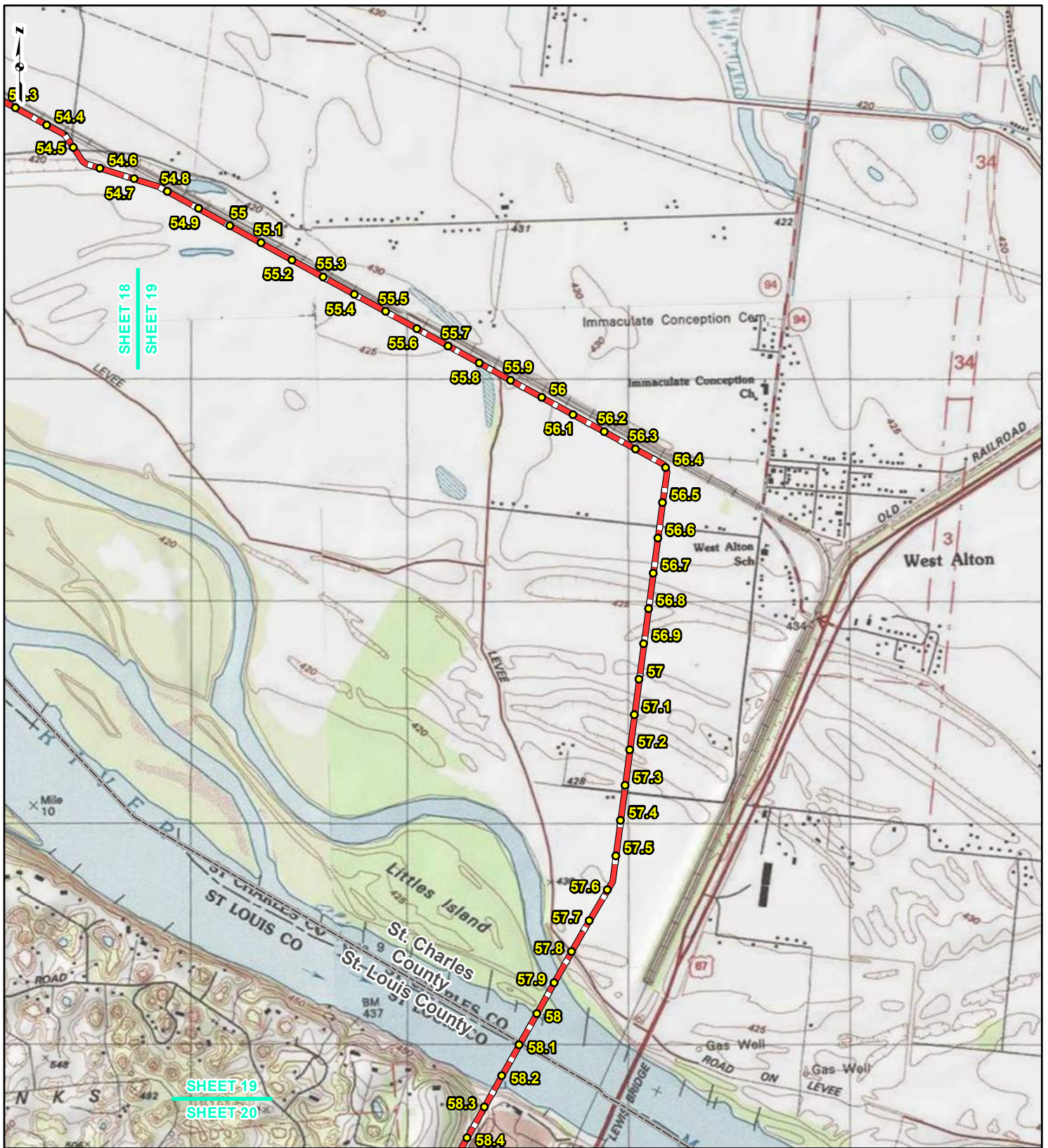
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 18 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

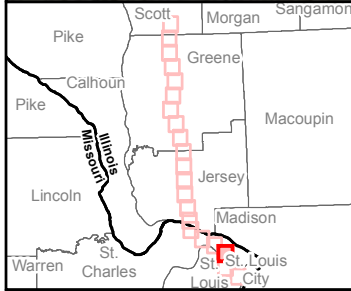
DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



SHEET 18
SHEET 19

SHEET 19
SHEET 20



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE
- MILEPOST
- NORTH COUNTY
- EXTENSION
- MILEPOST
- 24-INCH PIPELINE NORTH COUNTY
- EXTENSION
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

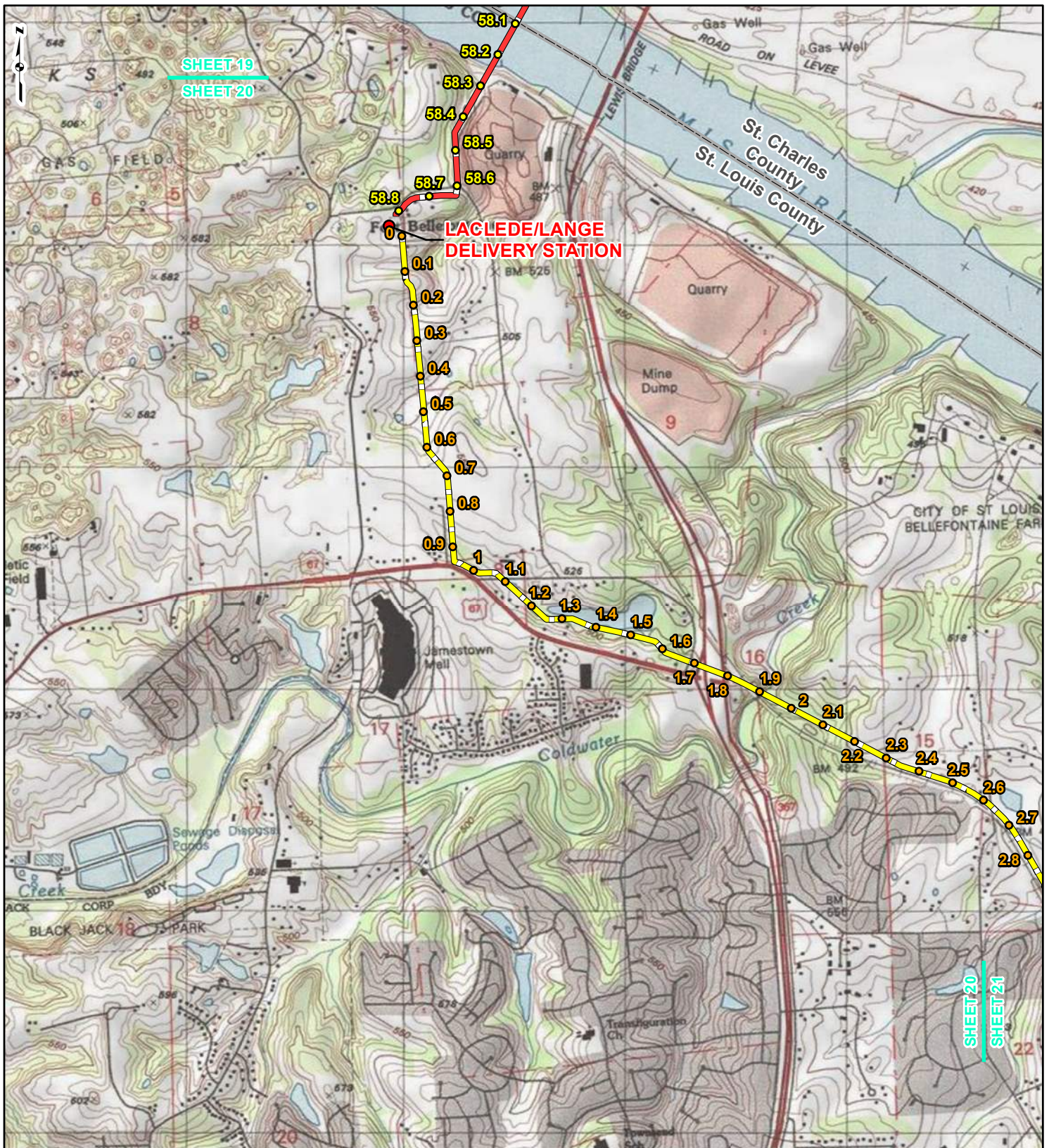
FIGURE 1
LOCATION MAP
SHEET 19 OF 21

SPIRE STL PIPELINE PROJECT

gai consultants

DRAWN BY: PMH DATE: 3/28/2017
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



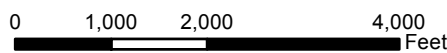
SHEET 19
SHEET 20

SHEET 20
SHEET 21

**LACLEDE/LANGE
DELIVERY STATION**

LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE NORTH COUNTY
- 24-INCH PIPELINE EXTENSION
- NORTH COUNTY MILEPOST
- EXTENSION MILEPOST
- ▬ COUNTY BOUNDARY
- ▬ STATE BOUNDARY
- ▬ 24-INCH PIPELINE NORTH COUNTY
- ▬ 24-INCH PIPELINE EXTENSION
- ▬ COUNTY BOUNDARY
- ▬ STATE BOUNDARY



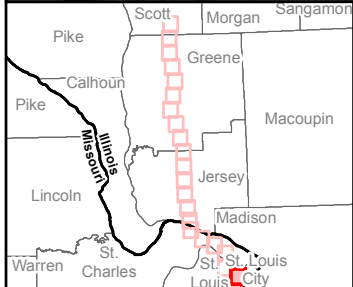
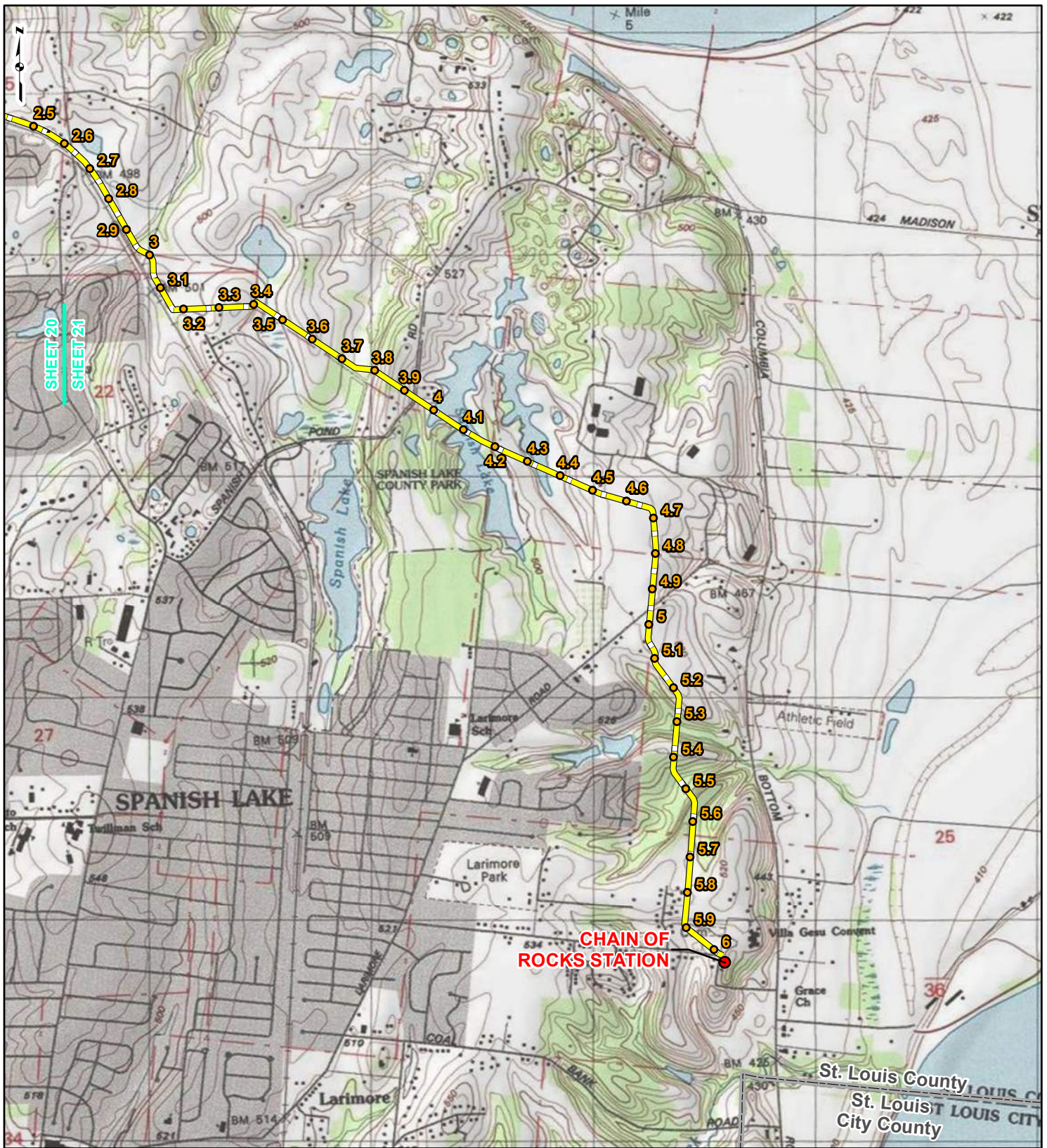
**FIGURE 1
LOCATION MAP
SHEET 20 OF 21**

**SPIRE STL
PIPELINE
PROJECT**



DRAWN BY: PMH DATE: 3/28/2017
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE EXTENSION	— 24-INCH PIPELINE EXTENSION
● NORTH COUNTY MILEPOST	▭ COUNTY BOUNDARY
● EXTENSION MILEPOST	▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 21 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



GAI Consultants, Inc.-Chicago Office
2300 Cabot Drive, Suite 395
Lisle, Illinois 60532

T 630.605.5255

March 28, 2017

Ms. Rachel Leibowitz
Division Manager & Deputy SHPO
Illinois Historic Preservation Agency
1 Old State Capitol Plaza
Springfield, IL 62701-1507

**Re: Supplemental Information (Docket No. CP17-40)
Spire STL Pipeline LLC
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Ms. Leibowitz:

In June 2016, Spire Pipeline LLC ("Spire") initiated consultation with your office regarding their intent to construct, own, and operate the proposed Spire STL Pipeline Project ("Project") which consisted of approximately 59 miles of new, greenfield 24-inch-diameter steel pipeline (referred to as the "24-inch pipeline") originating at an interconnection with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois; extending down through Greene and Jersey counties in Illinois before crossing the Mississippi River and extending east into St. Charles County, Missouri, crossing the Missouri River and tying into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Line 880 consisted of approximately seven miles of existing 20-inch-diameter steel pipeline. As part of the proposed Project, Spire was planning on modifying Line 880 before placing it in interstate service. The Project also included the construction of minor aboveground metering and regulating ("M&R") stations. On January 26, 2017, Spire filed an application with the Federal Energy Regulatory Commission ("FERC") for a Certificate of Public Convenience and Necessity for the Project (Docket No. CP17-40-000).

On March 15, 2017, Spire filed a "Preliminary Notification of Preferred Route Change" with FERC, indicating that the Spire no longer plans to modify the existing Line 880 as part of the Project. Instead, Spire intends to construct a new, greenfield 24-inch pipeline (referred to as the "North County Extension") which will extend the 24-inch pipeline portion of the Project to a proposed interconnect with Enable Mississippi River Transmission ("Enable MRT"). Spire plans to file an amended application with FERC in April 2017. GAI Consultants, Inc. ("GAI"), on behalf of Spire, is submitting supplemental information to assist with your review of the Project as amended. An updated description of the proposed Project facilities and location map (Figure 1) are provided herein.

Amended Project Description

The amended Project as proposed will consist of approximately 65 miles of new, greenfield, 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the REX pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with LGC. The second segment of new, greenfield pipeline, North County Extension, will consist of a 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC

interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable MRT and LGC. The total length of the Project pipeline will be approximately 65 miles. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day ("Dth/d"). No compression will be required. The Project also includes the construction of three new M&R stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri.

The acquisition and modifications to LGC's existing Line 880 is no longer proposed as part of the Project.

Spire anticipates a typical 90-foot temporary construction right-of-way width, and a 50-foot permanent easement. The construction right-of-way is anticipated to be reduced to 75 feet at streams and wetlands. An additional 25 feet of temporary work space will be required through agricultural areas, and additional temporary work space will be required to facilitate construction in certain areas, such as crossings of roads, railroads, streams, and wetlands.

The updated Project schedule includes the following target dates:

- July 22, 2016 - National Environmental Policy Act ("NEPA") process began (initiation of FERC Pre-filing process);
- August 2016 through March 2017 (Anticipated) - Biological and Cultural Resource Surveys;
- January 26, 2017 - Application Filed with FERC;
- April 2017 (Anticipated) - File Amended Application with FERC;
- September 2017 (Anticipated) - Draft NEPA Document Published; and
- December 2017 (Anticipated) - FERC Decision on Application.

Construction is anticipated to commence in January 2018.

On behalf of Spire, we'd like to take this opportunity to invite the Illinois Historic Preservation Agency to provide comments regarding the Project as it will be amended. We appreciate your continued involvement and cooperation in the review of this important Project.

If you have any questions or would like additional information, please feel free to contact me at 630.605.5255 or by e-mail at L.Ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.



Lori M. Ferry
Environmental Manager

LMF/ka

Attachment: United States Geological Survey (USGS) Topographic Map (Figure 1)



GAI Consultants, Inc.-Chicago Office
2300 Cabot Drive, Suite 395
Lisle, Illinois 60532

T 630.605.5255

March 28, 2017

Mr. Joe Phillippe
Illinois Historic Preservation Agency
1 Old State Capitol Plaza
Springfield, IL 62701-1507

**Re: Supplemental Information (Docket No. CP17-40)
Spire STL Pipeline LLC
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Mr. Phillippe:

In June 2016, Spire Pipeline LLC ("Spire") initiated consultation with your office regarding their intent to construct, own, and operate the proposed Spire STL Pipeline Project ("Project") which consisted of approximately 59 miles of new, greenfield 24-inch-diameter steel pipeline (referred to as the "24-inch pipeline") originating at an interconnection with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois; extending down through Greene and Jersey counties in Illinois before crossing the Mississippi River and extending east into St. Charles County, Missouri, crossing the Missouri River and tying into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Line 880 consisted of approximately seven miles of existing 20-inch-diameter steel pipeline. As part of the proposed Project, Spire was planning on modifying Line 880 before placing it in to interstate service. The Project also included the construction of minor aboveground metering and regulating ("M&R") stations. On January 26, 2017, Spire filed an application with the Federal Energy Regulatory Commission ("FERC") for a Certificate of Public Convenience and Necessity for the Project (Docket No. CP17-40-000).

On March 15, 2017, Spire filed a "Preliminary Notification of Preferred Route Change" with FERC, indicating that the Spire no longer plans to modify the existing Line 880 as part of the Project. Instead, Spire intends to construct a new, greenfield 24-inch pipeline (referred to as the "North County Extension") which will extend the 24-inch pipeline portion of the Project to a proposed interconnect with Enable Mississippi River Transmission ("Enable MRT"). Spire plans to file an amended application with FERC in April 2017. GAI Consultants, Inc. ("GAI"), on behalf of Spire, is submitting supplemental information to assist with your review of the Project as amended. An updated description of the proposed Project facilities and location map (Figure 1) are provided herein.

Amended Project Description

The amended Project as proposed will consist of approximately 65 miles of new, greenfield, 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the REX pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with LGC. The second segment of new, greenfield pipeline, North County Extension, will consist of a 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC interconnect through the northern portion of St. Louis County and terminate at a new interconnect

with Enable MRT and LGC. The total length of the Project pipeline will be approximately 65 miles. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day ("Dth/d"). No compression will be required. The Project also includes the construction of three new M&R stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri.

The acquisition and modifications to LGC's existing Line 880 is no longer proposed as part of the Project.

Spire anticipates a typical 90-foot temporary construction right-of-way width, and a 50-foot permanent easement. The construction right-of-way is anticipated to be reduced to 75 feet at streams and wetlands. An additional 25 feet of temporary work space will be required through agricultural areas, and additional temporary work space will be required to facilitate construction in certain areas, such as crossings of roads, railroads, streams, and wetlands.

The updated Project schedule includes the following target dates:

- July 22, 2016 - National Environmental Policy Act ("NEPA") process began (initiation of FERC Pre-filing process);
- August 2016 through March 2017 (Anticipated) - Biological and Cultural Resource Surveys;
- January 26, 2017 - Application Filed with FERC;
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Construction is anticipated to commence in January 2018.

On behalf of Spire, we'd like to take this opportunity to invite the Illinois Historic Preservation Agency to provide comments regarding the Project as it will be amended. We appreciate your continued involvement and cooperation in the review of this important Project.

If you have any questions or would like additional information, please feel free to contact me at 630.605.5255 or by e-mail at L.Ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.



Lori M. Ferry
Environmental Manager

LMF/ka

Attachment: United States Geological Survey (USGS) Topographic Map (Figure 1)

GAI Consultants, Inc.

Choose a building block.

Letter of Transmittal

TRANSMITTAL NO.	
DATE:	2/10/2017
PROJECT NO.	E160438.00.007

Illinois Historic Preservation Agency
1 Old State Capitol Plaza
Springfield, Illinois 62701

Attention: Ms. Tina Blankenship

PROJECT TITLE:
Spire STL Pipeline Project
Spire STL Pipeline LLC
Scott, Greene, and Jersey Counties, Illinois

SUBJECT:
Phase I Archaeological Survey
Archaeological Survey Short Report (rev)

WE ARE SENDING YOU: Paper Documents & Electronic Files

VIA: FedEx Ground Delivery

PURPOSE: For Your Use

COMMENTS:

ATTACHMENTS:

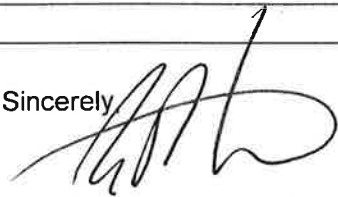
Qty	Document No.	Rev	Document Date	Document Description/Title	Status*
2		1	1/7/2017	Archaeological Survey Short Report (rev) Hardcopies	
2		1	1/7/2017	Archaeological Survey Short Report (rev) DVDs	

*Status Codes for Submittal Package Reviews: NE=No Exceptions; EN=Exceptions Noted; RR=Revise & Resubmit; RJ=Rejected

DISTRIBUTION:

Name	Company	Transmittal (Y/N)	Attachments (Y/N)

Sincerely



Eric P. Scuoteguazza, M.A., M.B.A., RPA
 Senior Manager, Cultural Resources

*Thank you, Tina.
 Please let me know
 if you need anything
 else.
 Eric*



Illinois Environmental Protection Agency



GAI Consultants, Inc.-Chicago Office
2300 Cabot Drive, Suite 395
Lisle, Illinois 60532

T 630.605.5255

March 28, 2017

Mr. Dan Heacock
Facility Evaluation Manager
Illinois Environmental Protection Agency - Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794-9276

**Re: Supplemental Information (Docket No. CP17-40)
Spire STL Pipeline LLC
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Mr. Heacock:

In June 2016, Spire Pipeline LLC ("Spire") initiated consultation with your office regarding their intent to construct, own, and operate the proposed Spire STL Pipeline Project ("Project") which consisted of approximately 59 miles of new, greenfield 24-inch-diameter steel pipeline (referred to as the "24-inch pipeline") originating at an interconnection with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois; extending down through Greene and Jersey counties in Illinois before crossing the Mississippi River and extending east into St. Charles County, Missouri, crossing the Missouri River and tying into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Line 880 consisted of approximately seven miles of existing 20-inch-diameter steel pipeline. As part of the proposed Project, Spire was planning on modifying Line 880 before placing it in interstate service. The Project also included the construction of minor aboveground metering and regulating ("M&R") stations. On January 26, 2017, Spire filed an application with the Federal Energy Regulatory Commission ("FERC") for a Certificate of Public Convenience and Necessity for the Project (Docket No. CP17-40-000).

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interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable MRT and LGC. The total length of the Project pipeline will be approximately 65 miles. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day ("Dth/d"). No compression will be required. The Project also includes the construction of three new M&R stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri.

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On behalf of Spire, we'd like to take this opportunity to invite the Illinois Environmental Protection Agency - Bureau of Water to provide comments regarding the Project as it will be amended. We appreciate your continued involvement and cooperation in the review of this important Project.

If you have any questions or would like additional information, please feel free to contact me at 630.605.5255 or by e-mail at L.Ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

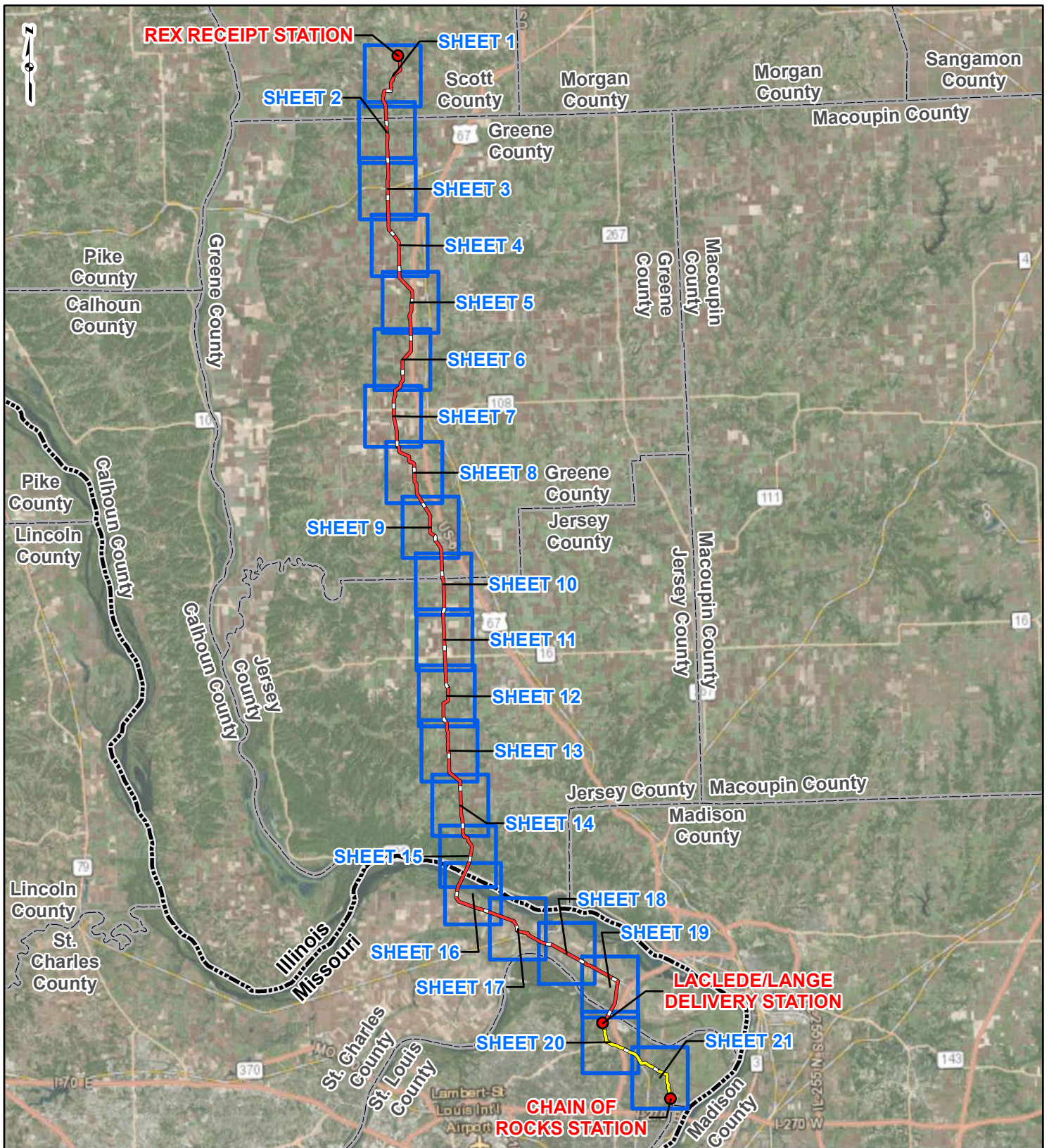


Lori M. Ferry
Environmental Manager

LMF/ka

Attachment: United States Geological Survey (USGS) Topographic Map (Figure 1)

ATTACHMENT
USGS TOPOGRAPHIC MAP (FIGURE 1)



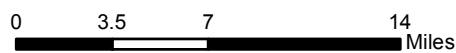
PROJECT LOCATION



SCOTT, GREENE AND JERSEY COUNTIES, ILLINOIS AND ST. CHARLES AND ST. LOUIS COUNTIES, MISSOURI

LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE
- NORTH COUNTY EXTENSION
- SHEET INDEX
- COUNTY BOUNDARY
- STATE BOUNDARY



**FIGURE 1
LOCATION MAP
SHEET INDEX**



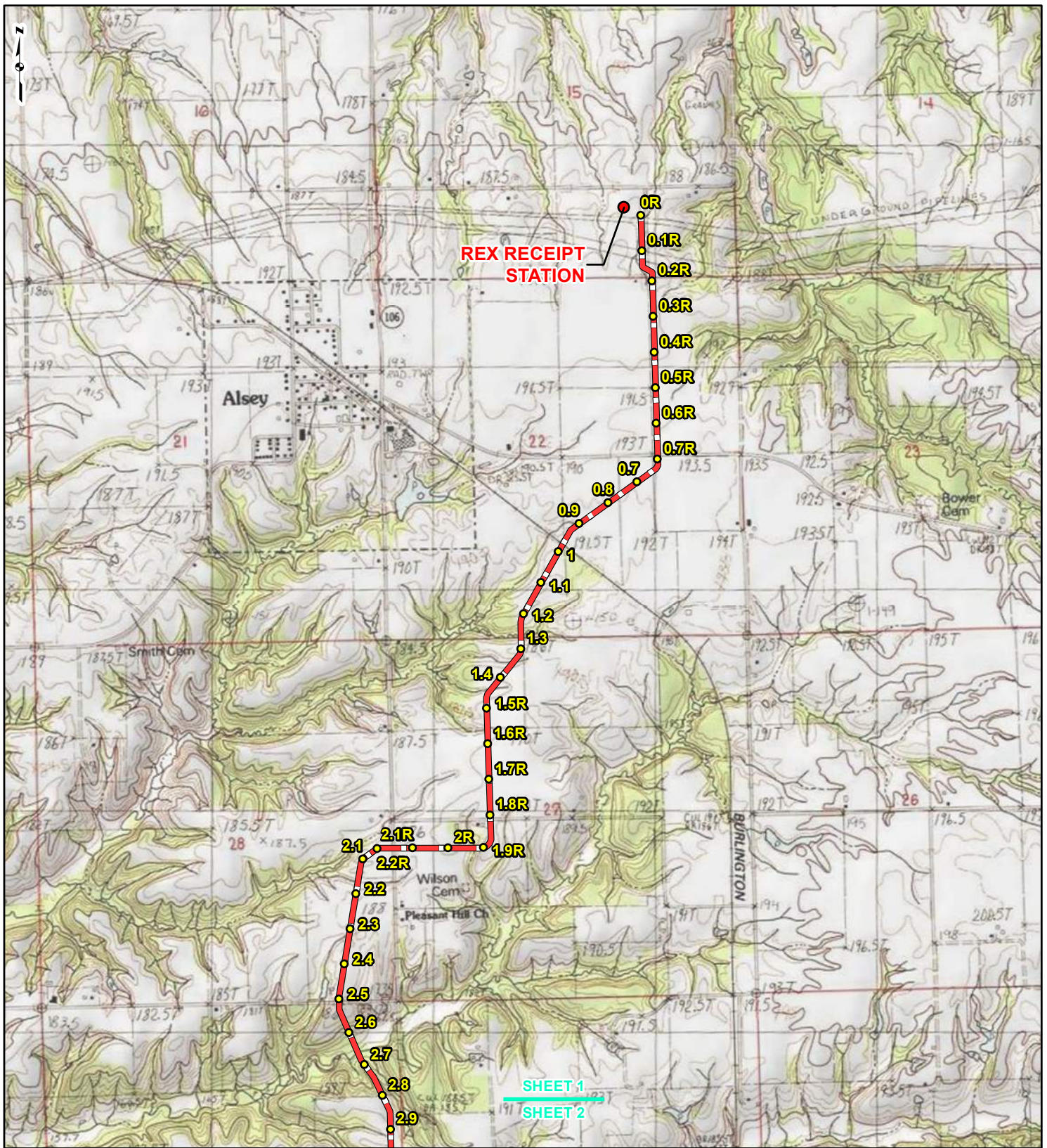
**SPIRE STL
PIPELINE
PROJECT**



DRAWN BY: PMH
CHECKED: SWW

DATE: 3/28/2017
APPROVED: LMF

REFERENCE: ESRI WORLD IMAGERY AND TRANSPORTATION, NAIP, USDA FSA, 2015, ACCESSED 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE MILEPOST	— EXTENSION
○ NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION MILEPOST	▭ STATE BOUNDARY

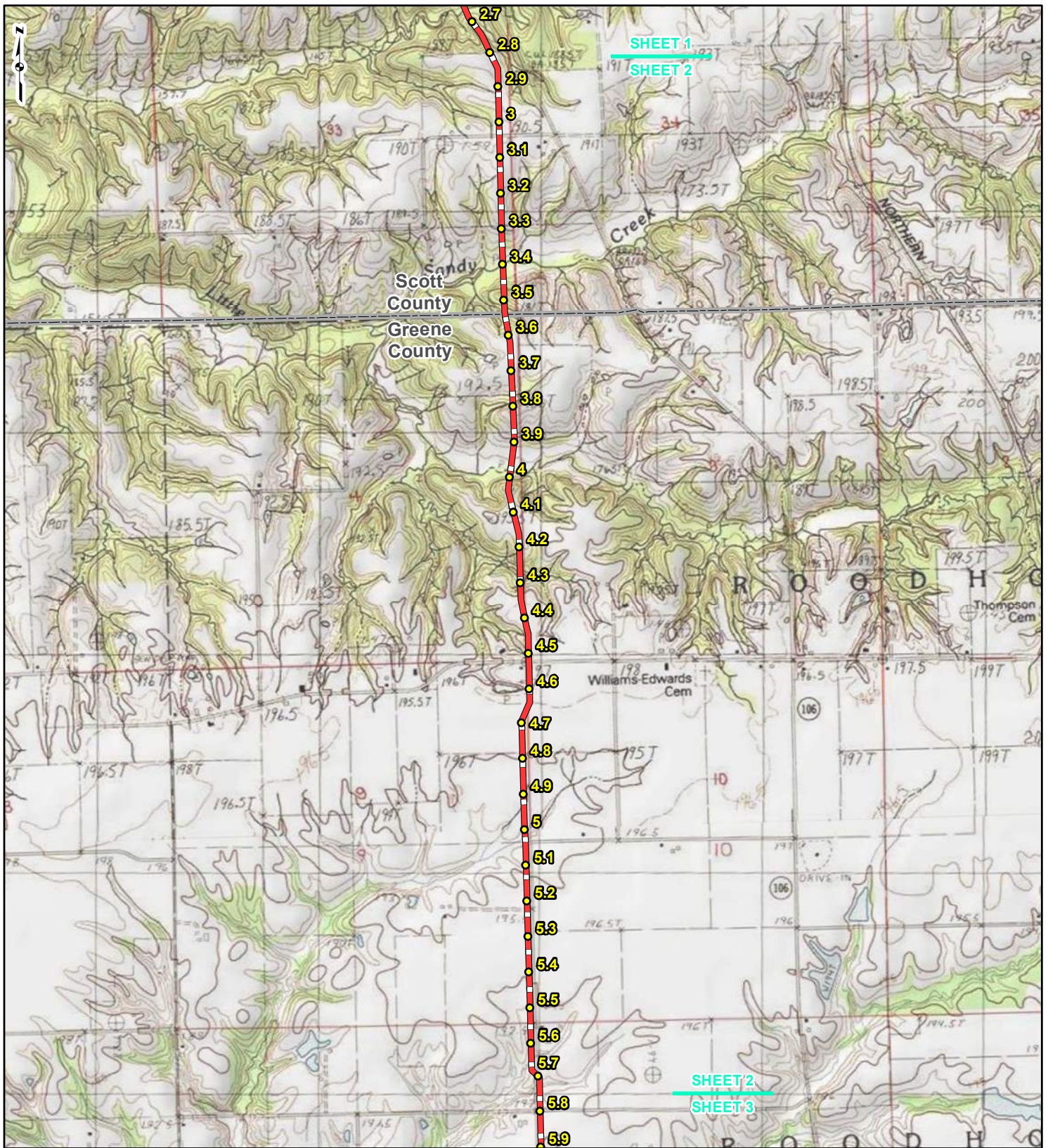
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**FIGURE 1
LOCATION MAP
SHEET 1 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	□ COUNTY BOUNDARY
● STATE BOUNDARY	□ STATE BOUNDARY

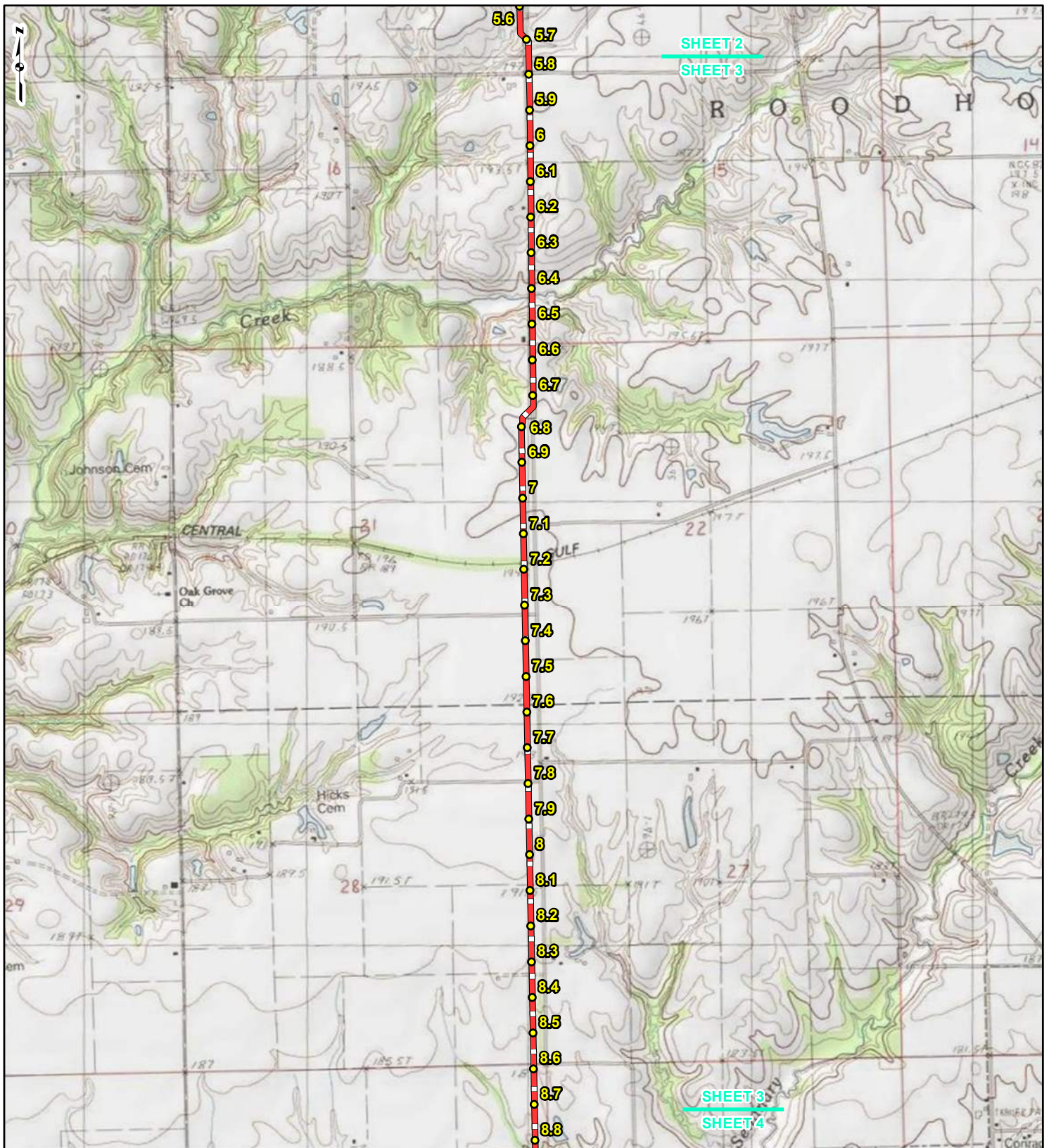
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**FIGURE 1
LOCATION MAP
SHEET 2 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.





LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

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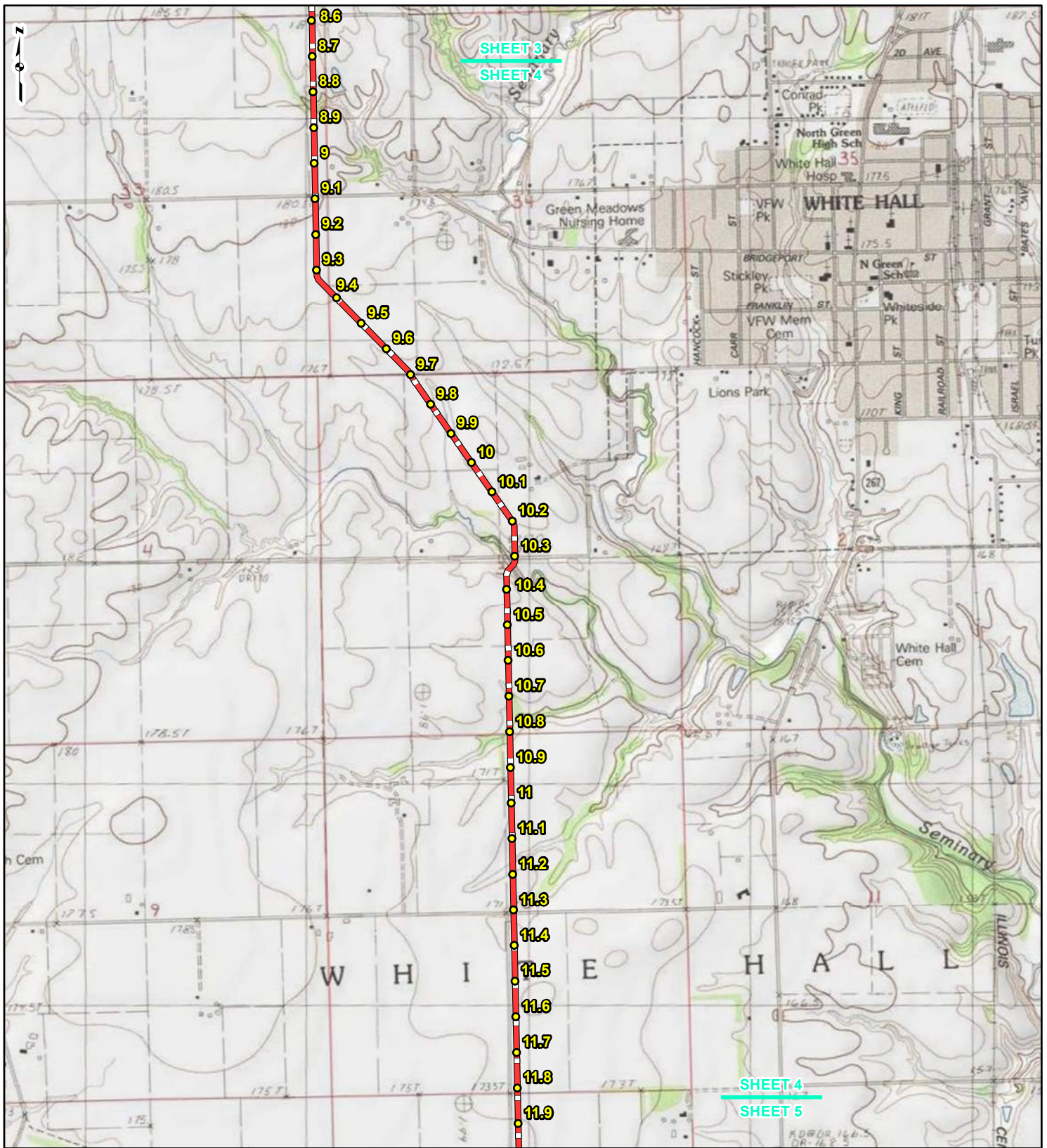
FIGURE 1
LOCATION MAP
SHEET 3 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLORISSANT (1995), 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 03/2017.



SHEET 3
SHEET 4

SHEET 4
SHEET 5



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

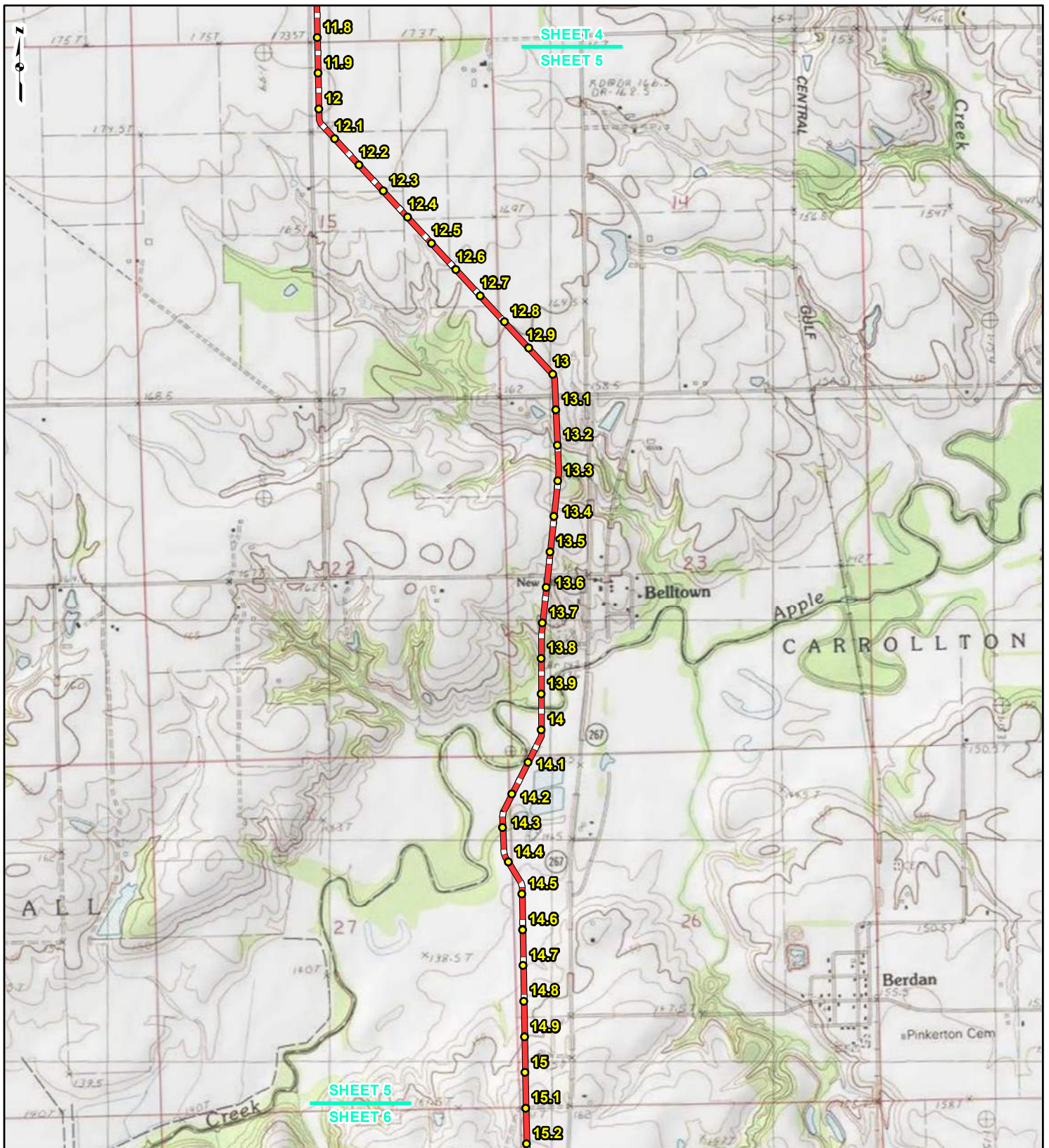
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**FIGURE 1
LOCATION MAP
SHEET 4 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.





LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

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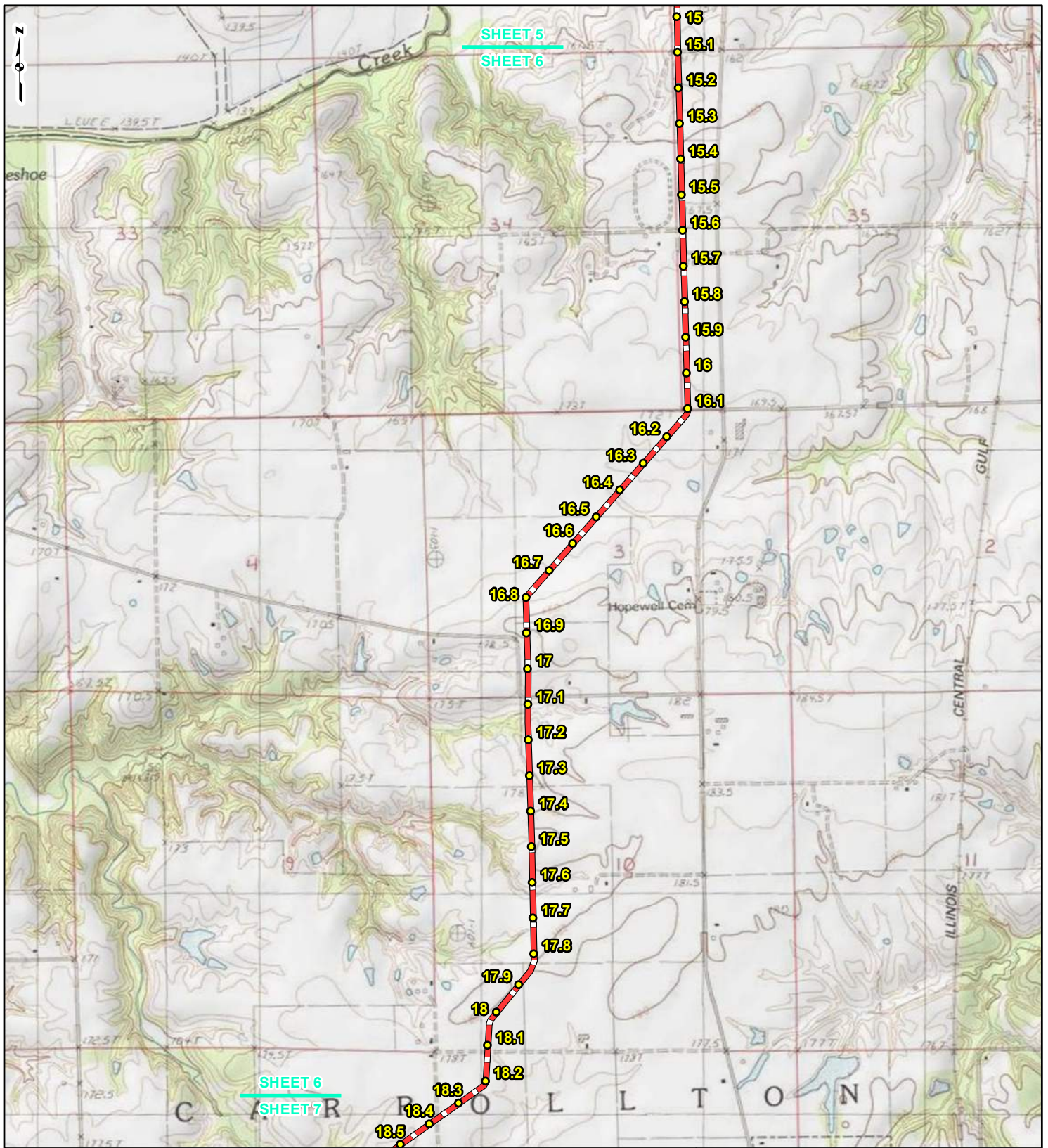
**FIGURE 1
LOCATION MAP
SHEET 5 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● NORTH COUNTY	— EXTENSION
● EXTENSION	▭ COUNTY BOUNDARY
● MILEPOST	▭ STATE BOUNDARY

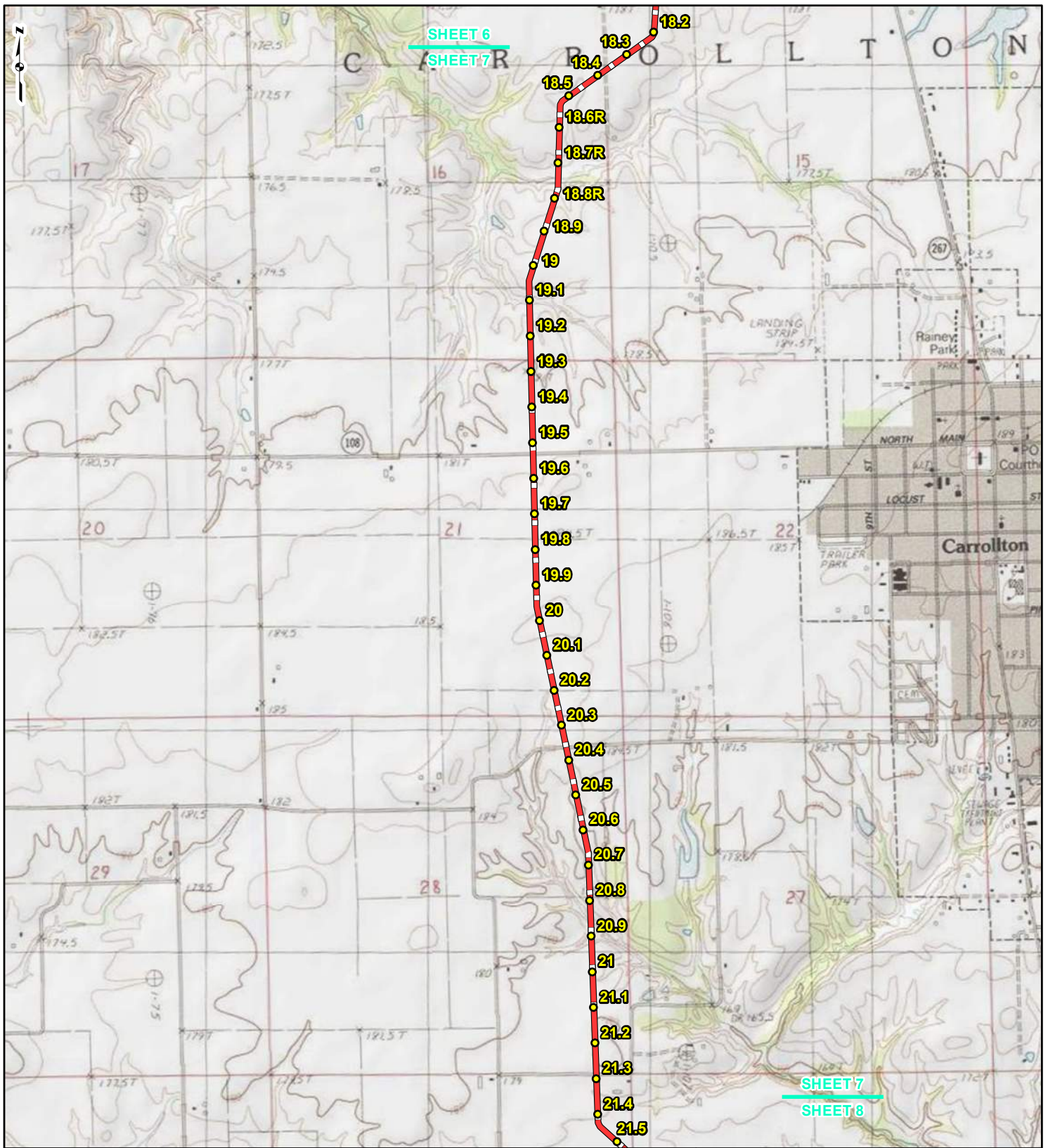
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FIGURE 1
LOCATION MAP
SHEET 6 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

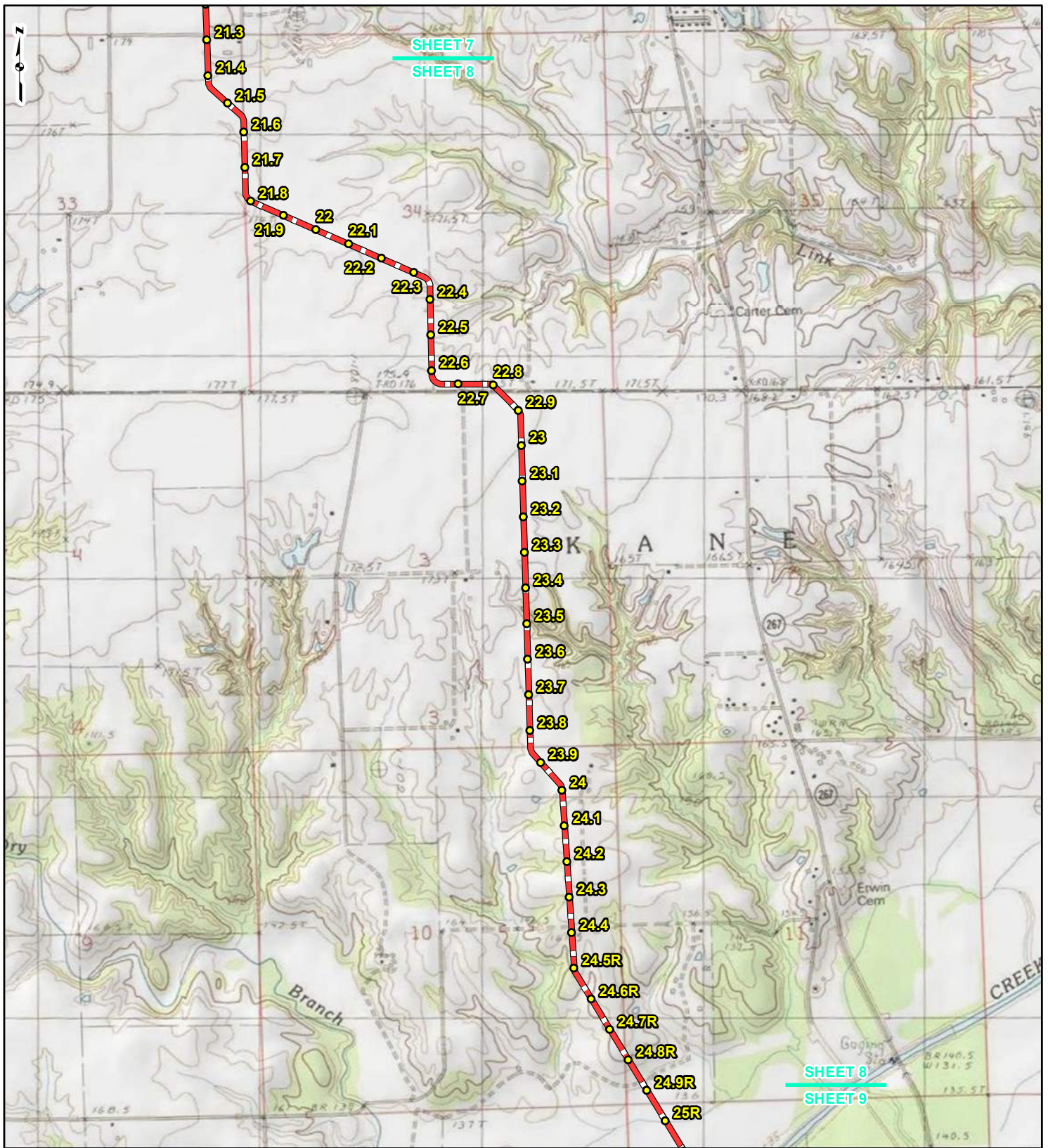
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**FIGURE 1
LOCATION MAP
SHEET 7 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
○ NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

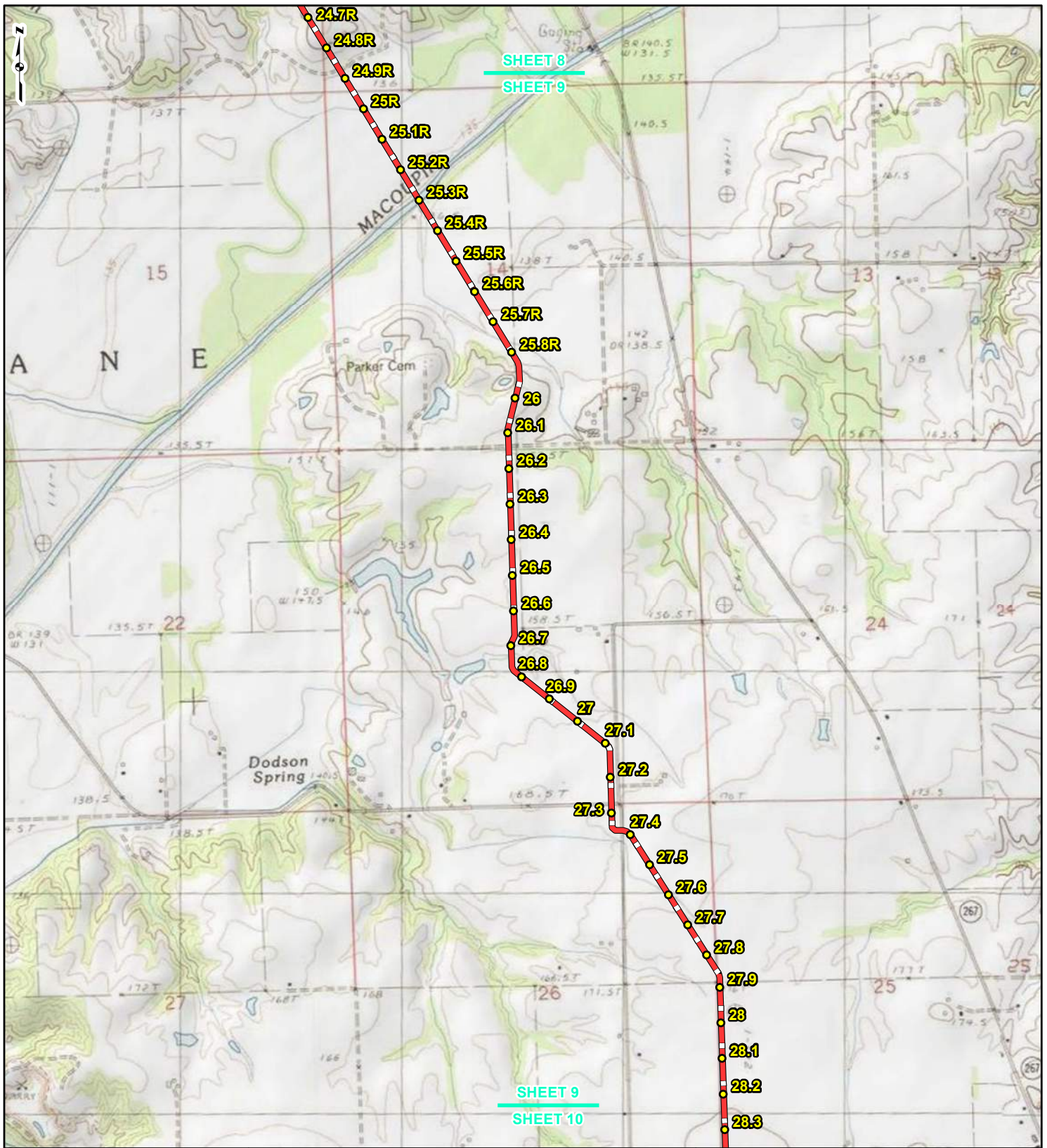
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**FIGURE 1
LOCATION MAP
SHEET 8 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

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● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

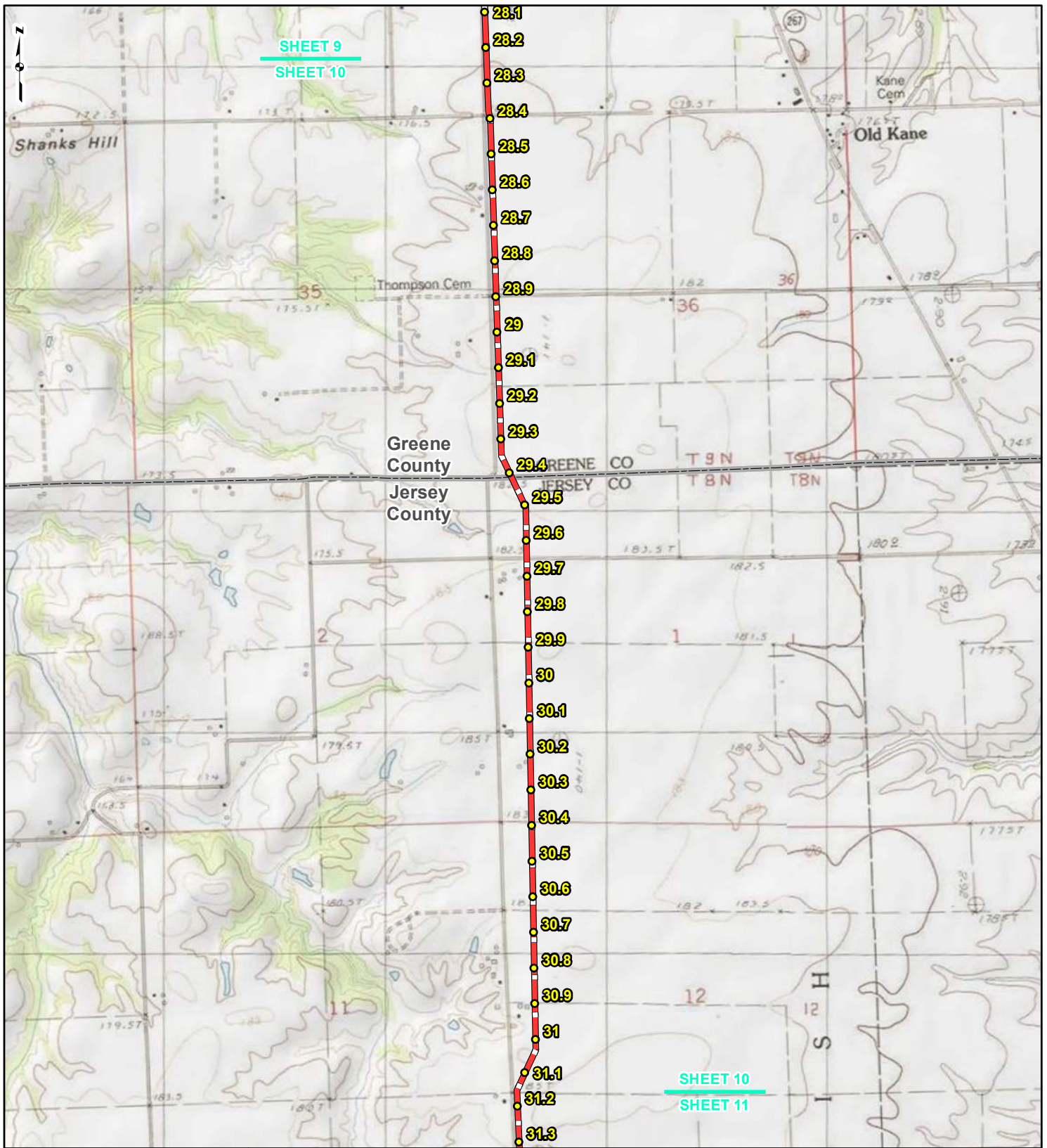
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**FIGURE 1
LOCATION MAP
SHEET 9 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
● MILEPOST	▭ STATE BOUNDARY

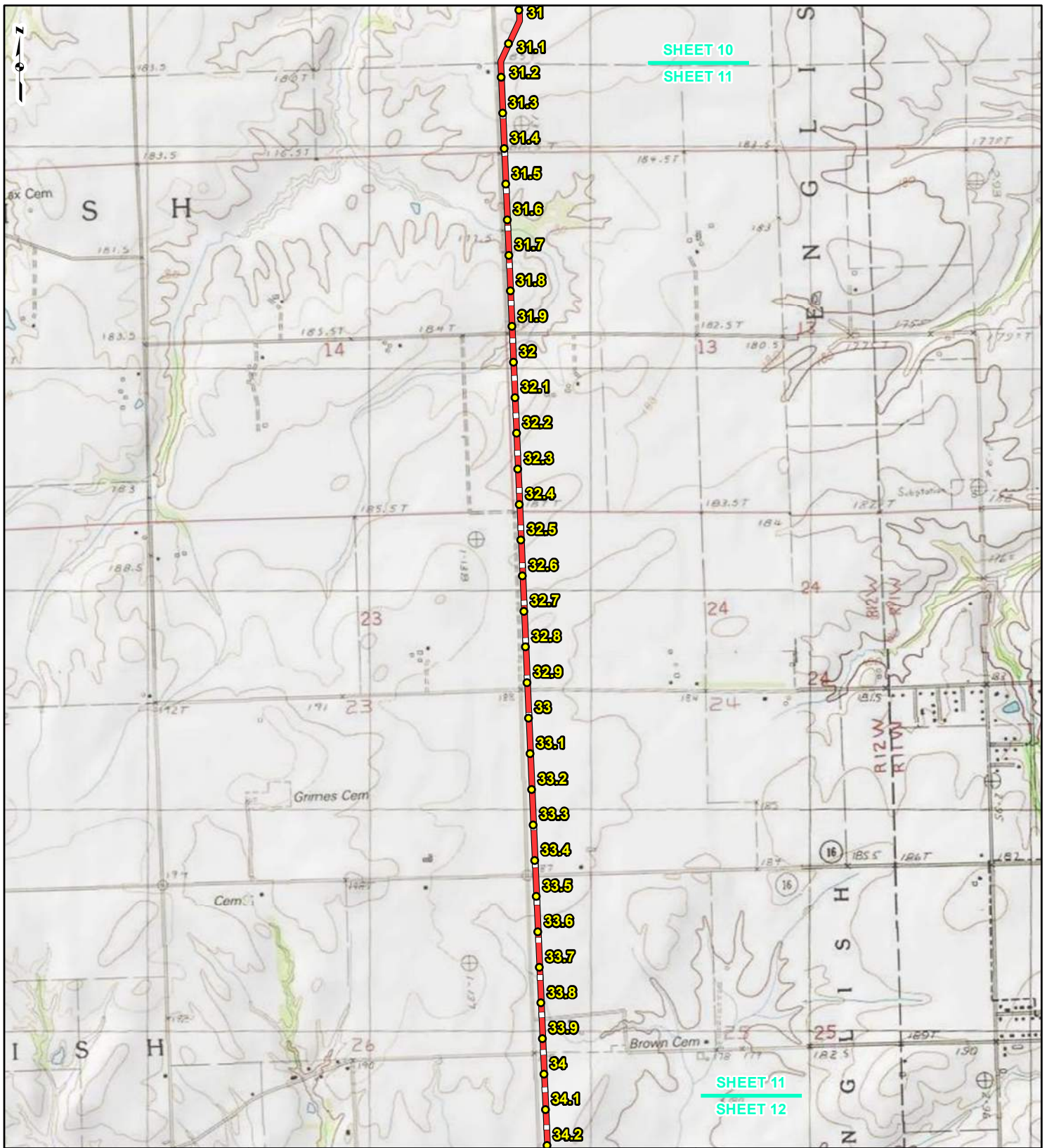
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 10 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	▭ COUNTY BOUNDARY
	▭ STATE BOUNDARY

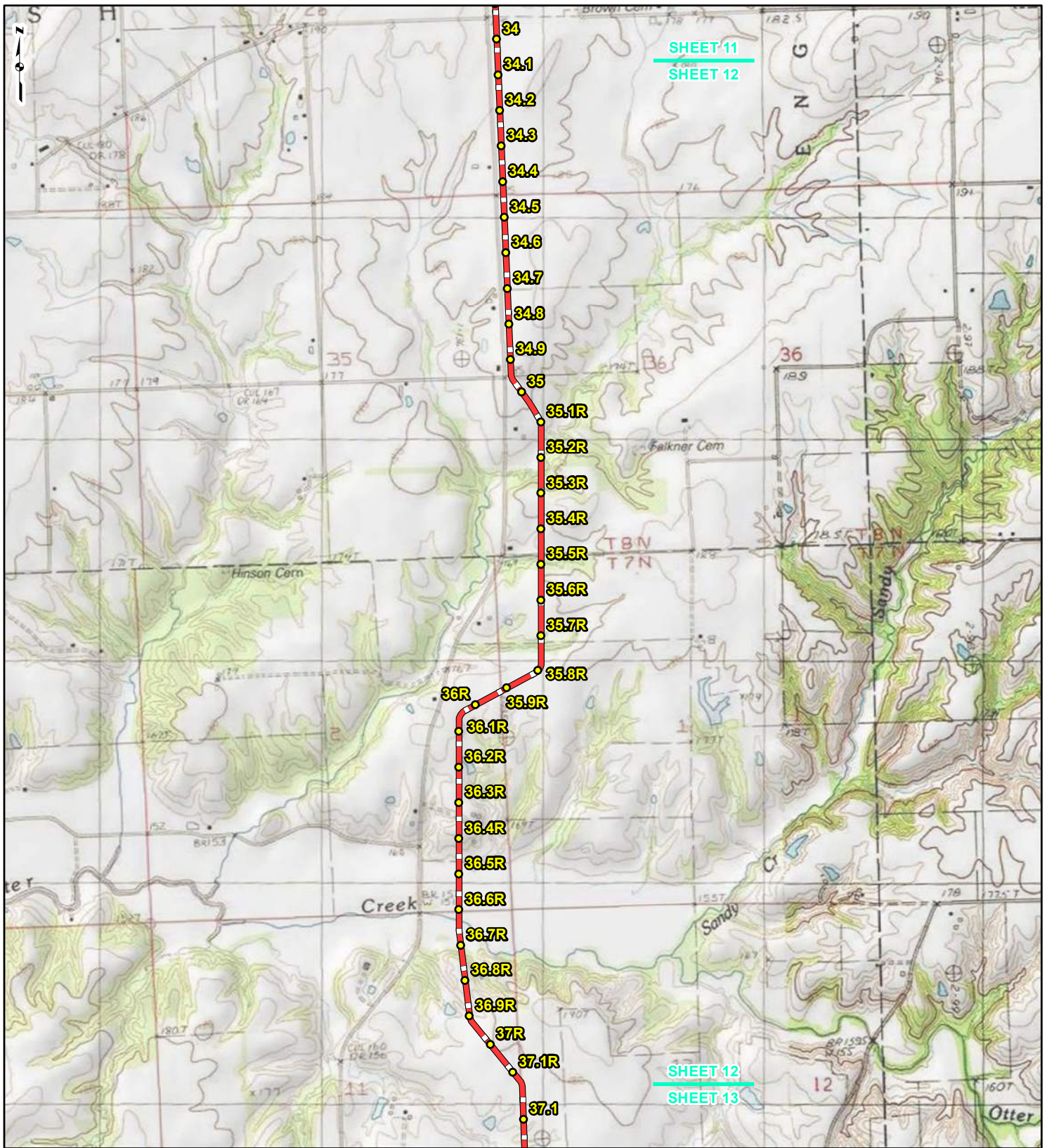
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 11 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), EL SAH (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 03/2017.



SHEET 11
SHEET 12

SHEET 12
SHEET 13



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

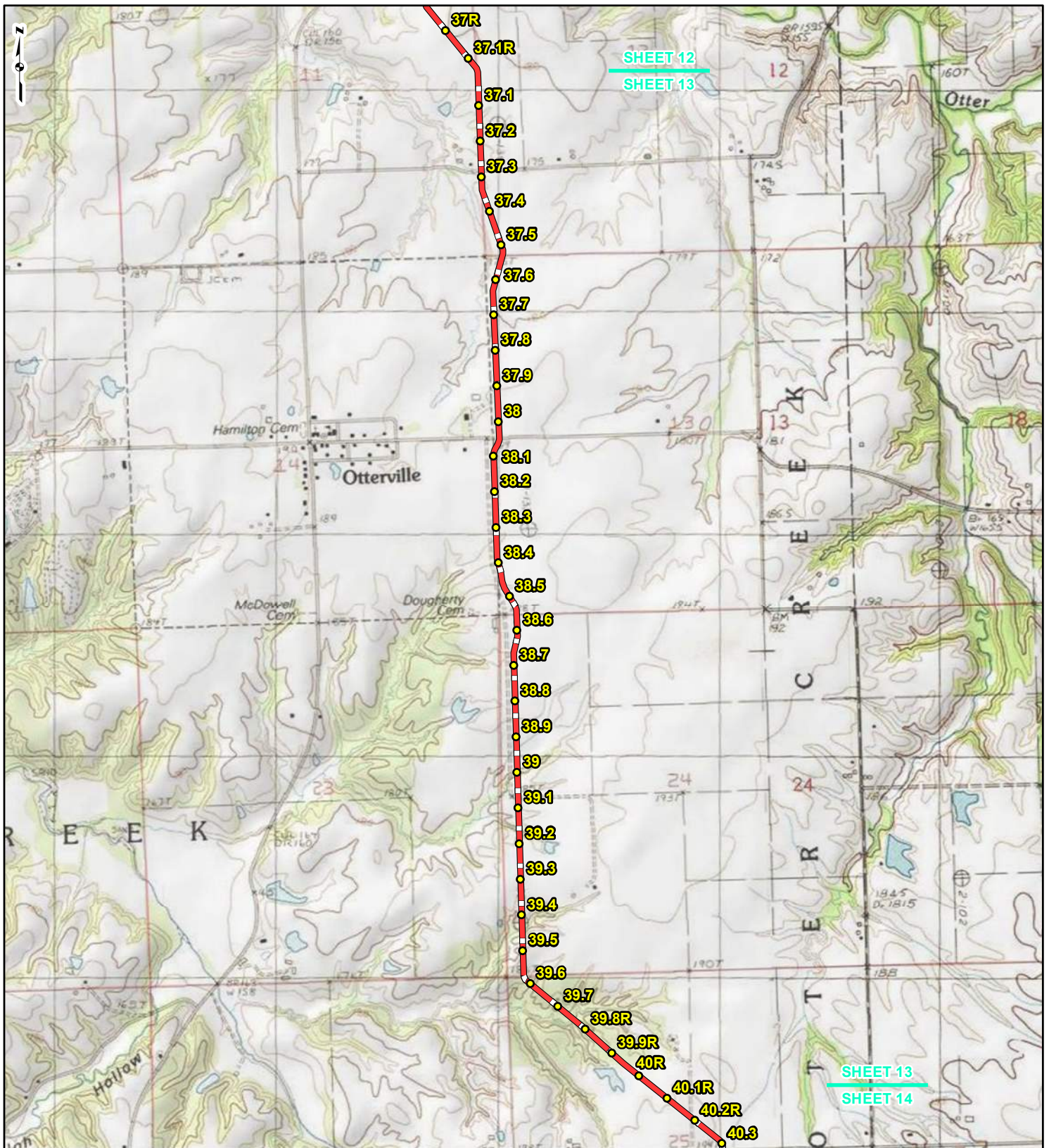
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**FIGURE 1
LOCATION MAP
SHEET 12 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE MILEPOST	— NORTH COUNTY EXTENSION
● NORTH COUNTY EXTENSION MILEPOST	□ COUNTY BOUNDARY
	□ STATE BOUNDARY

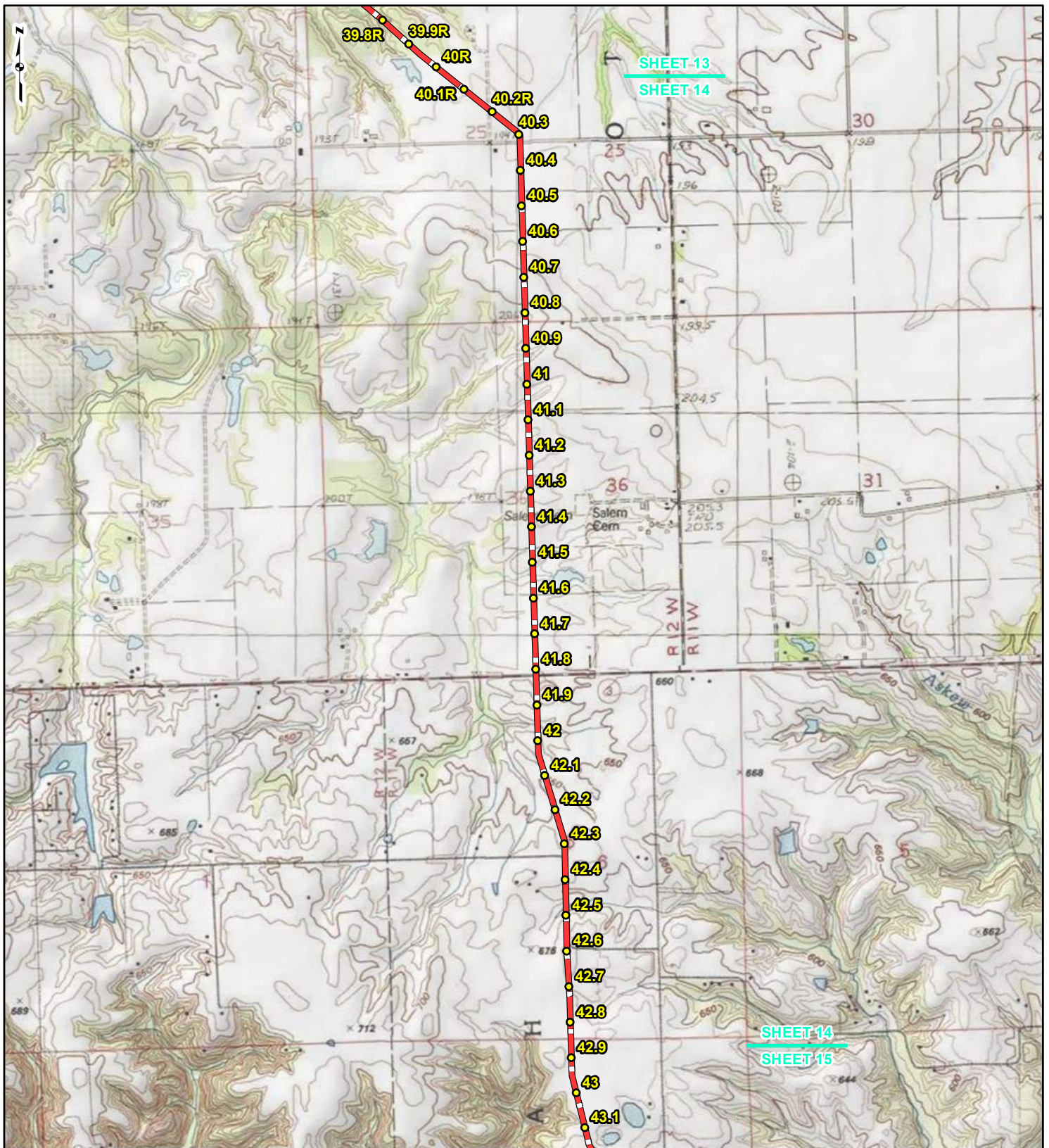
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 13 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH	DATE: 3/28/2017
CHECKED: SWW	APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

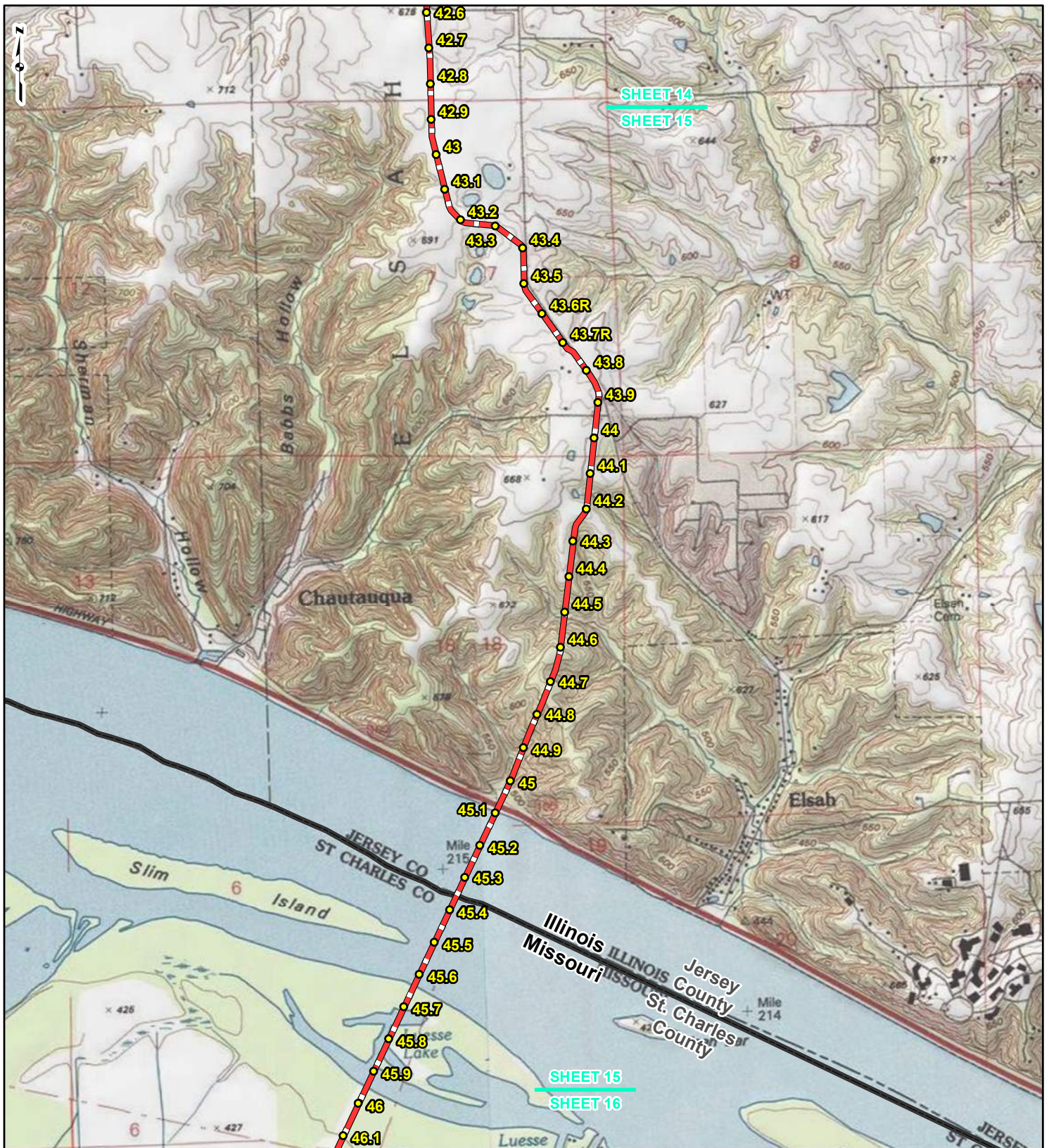
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 14 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE NORTH COUNTY
- 24-INCH PIPELINE EXTENSION
- NORTH COUNTY
- EXTENSION
- MILEPOST
- MILEPOST
- ▭ COUNTY BOUNDARY
- ▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

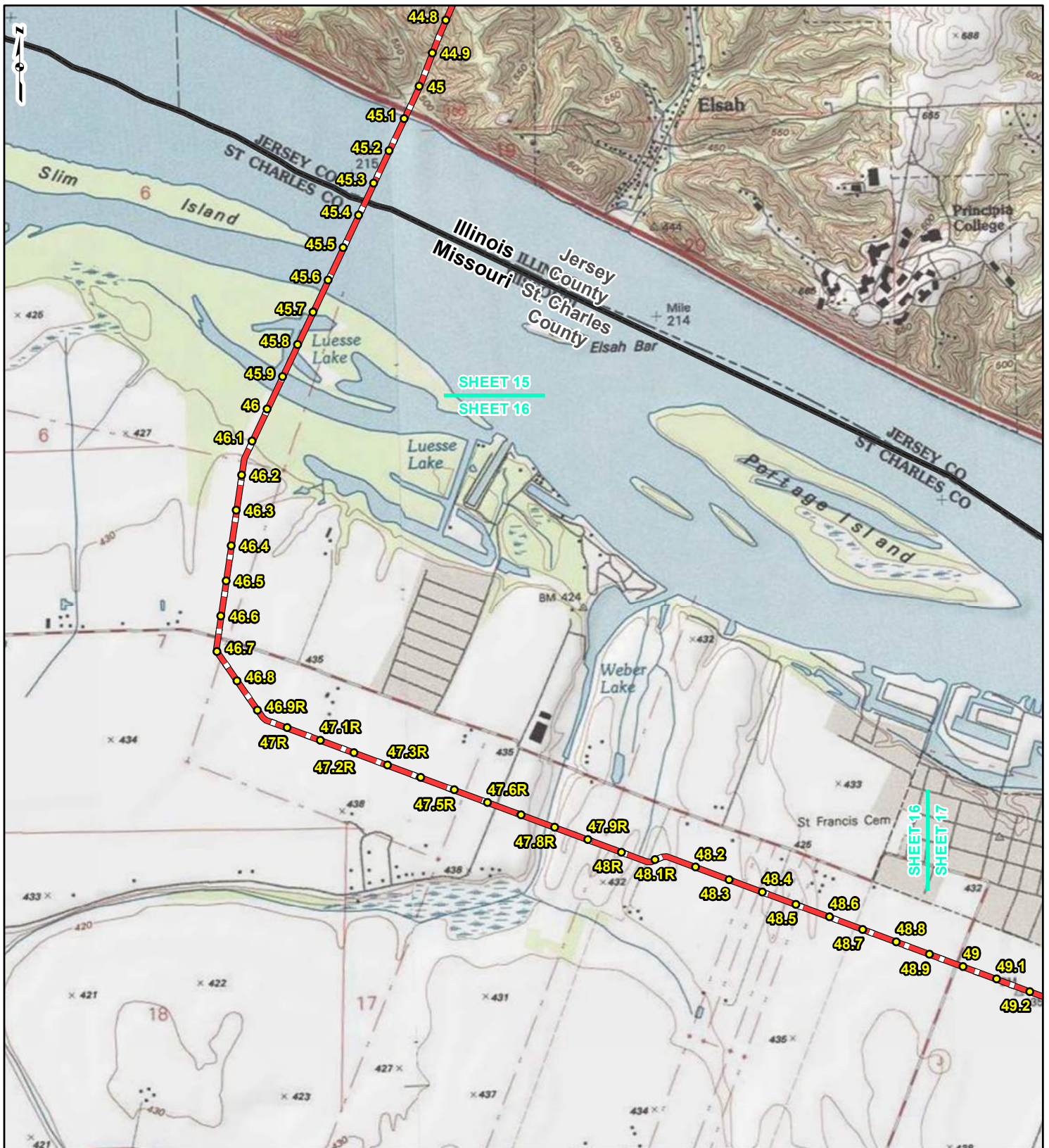
FIGURE 1
LOCATION MAP
SHEET 15 OF 21

SPIRE STL PIPELINE PROJECT

gai consultants **spire**

DRAWN BY: PMH DATE: 3/28/2017
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



SHEET 15
SHEET 16

SHEET 16
SHEET 17



LEGEND

- PROPOSED FACILITIES
- 24-INCH PIPELINE MILEPOST
- NORTH COUNTY EXTENSION MILEPOST
- 24-INCH PIPELINE NORTH COUNTY EXTENSION
- COUNTY BOUNDARY
- STATE BOUNDARY

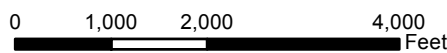


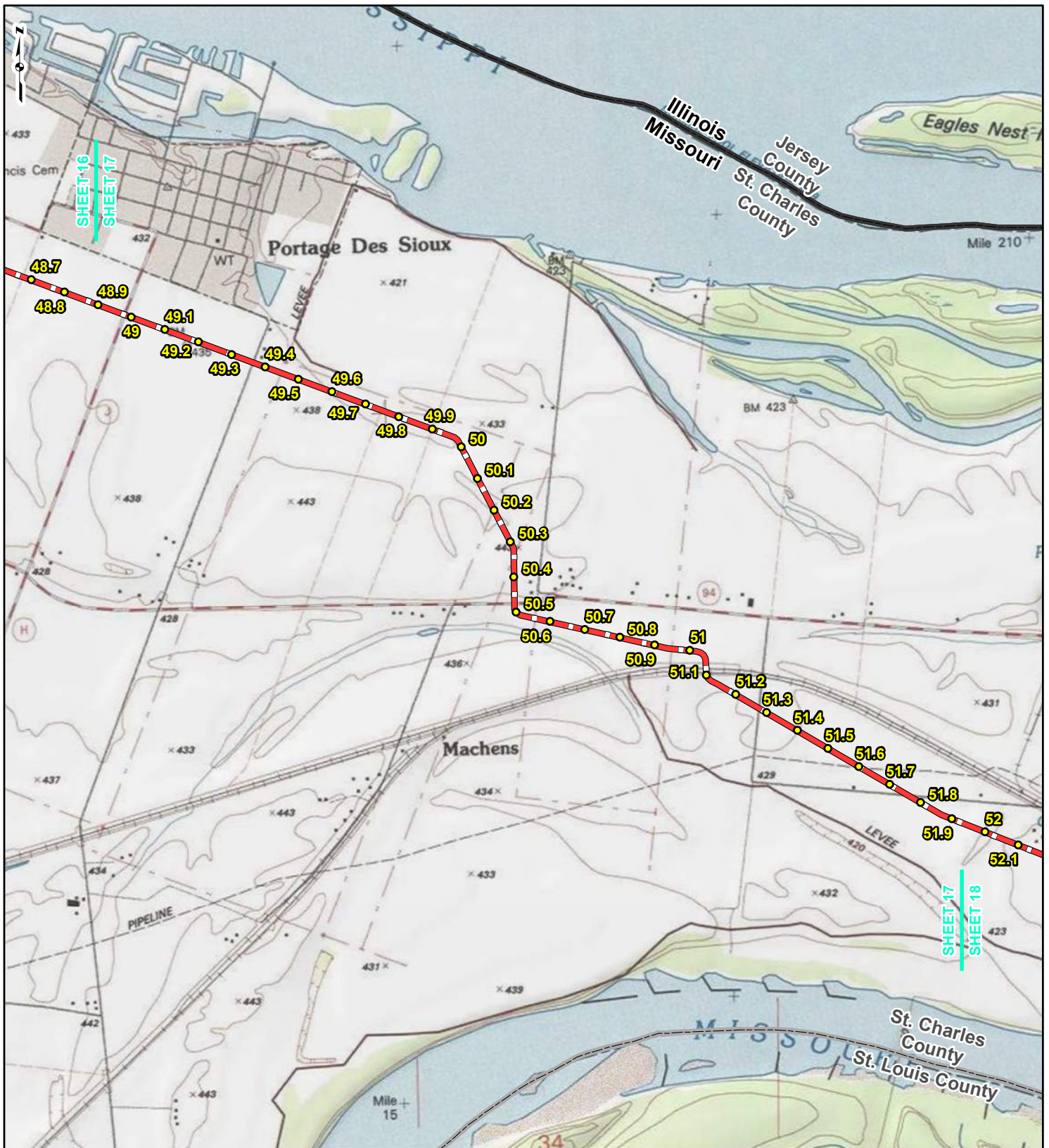
FIGURE 1
LOCATION MAP
SHEET 16 OF 21

SPIRE STL
PIPELINE
PROJECT



DRAWN BY: PMH DATE: 3/28/2017
CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

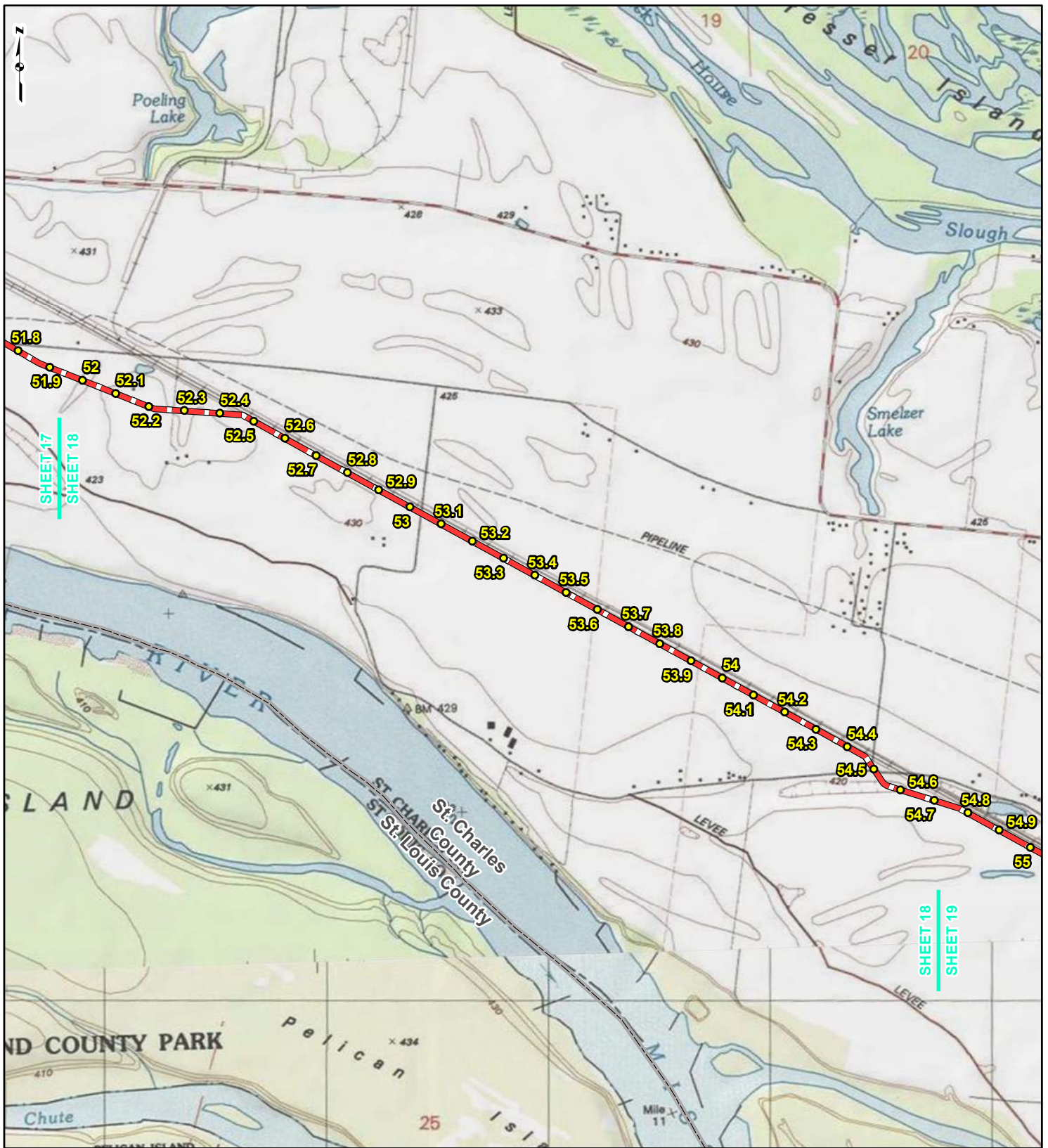
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 17 OF 21

SPIRE STL
PIPELINE
PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), 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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
— NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

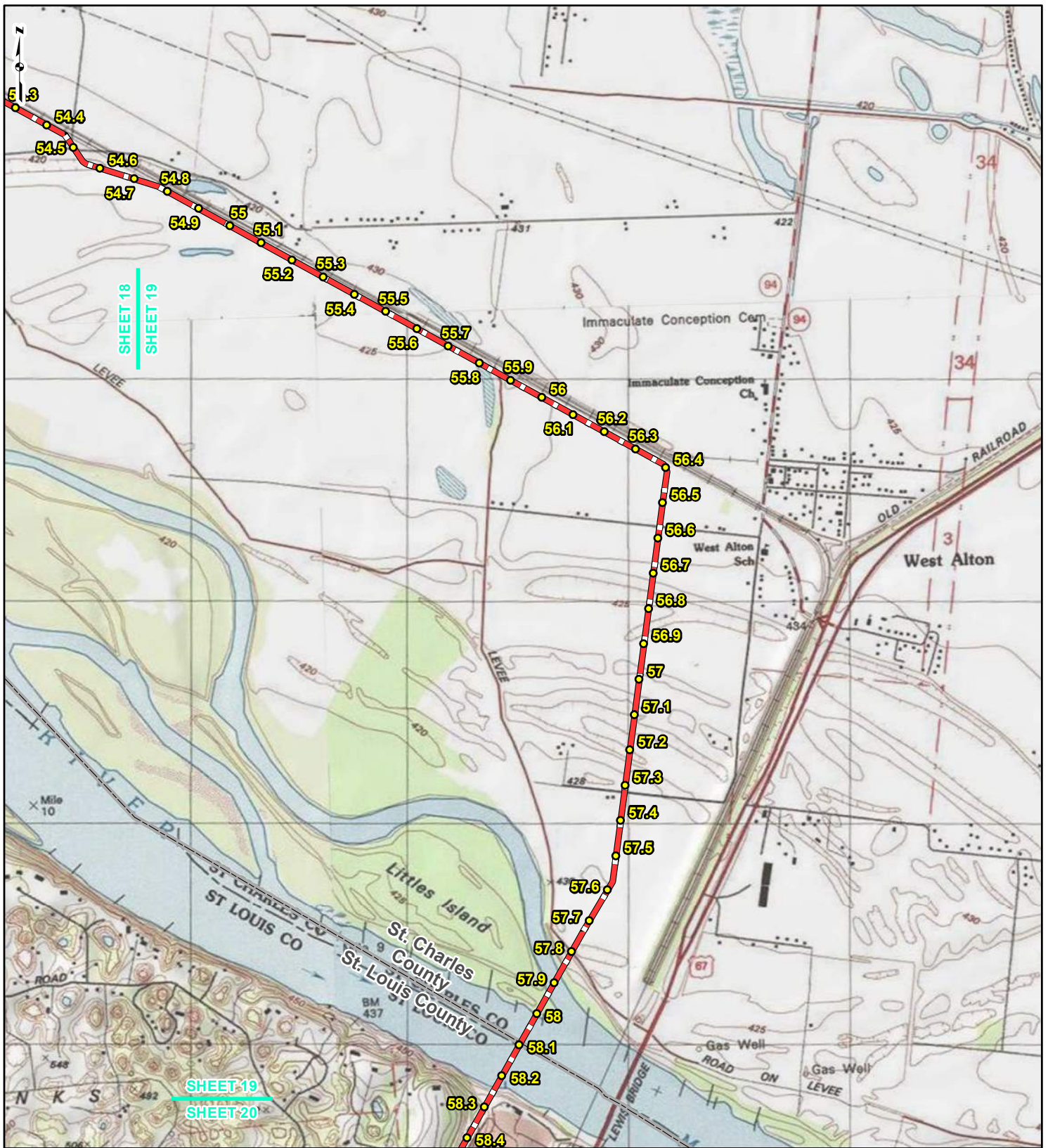
0 1,000 2,000 4,000
Feet

**FIGURE 1
LOCATION MAP
SHEET 18 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE
● 24-INCH PIPELINE	— NORTH COUNTY
● MILEPOST	— EXTENSION
● NORTH COUNTY	▭ COUNTY BOUNDARY
● EXTENSION	▭ STATE BOUNDARY
● MILEPOST	

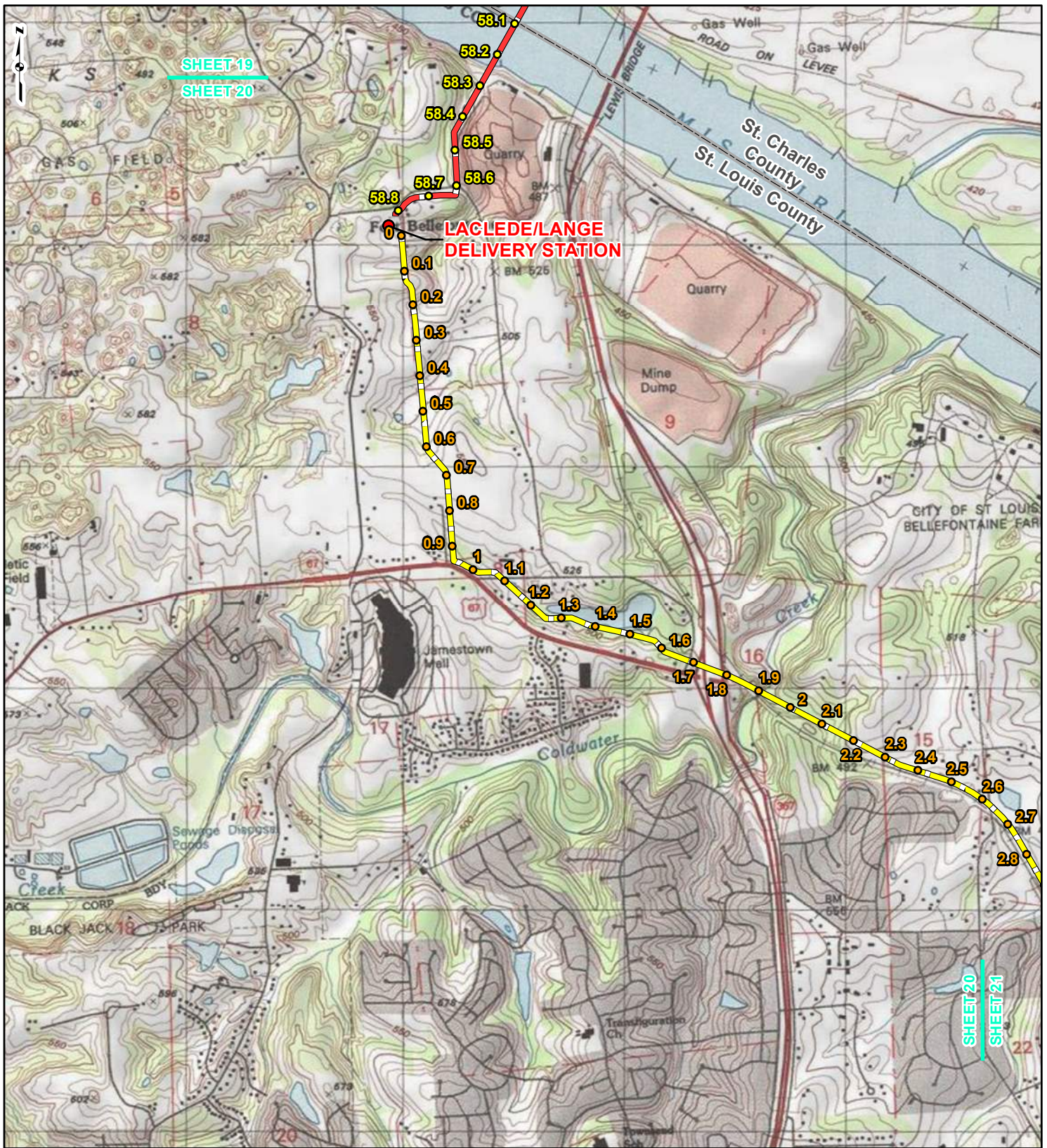
0 1,000 2,000 4,000
Feet

FIGURE 1
LOCATION MAP
SHEET 19 OF 21

SPIRE STL PIPELINE PROJECT

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (1995), FLOISSANT (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 03/2017.



SHEET 19
SHEET 20

**LACLEDE/LANGE
DELIVERY STATION**

SHEET 20
SHEET 21



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE MILEPOST	— 24-INCH PIPELINE EXTENSION
● NORTH COUNTY MILEPOST	▭ COUNTY BOUNDARY
● EXTENSION MILEPOST	▭ STATE BOUNDARY

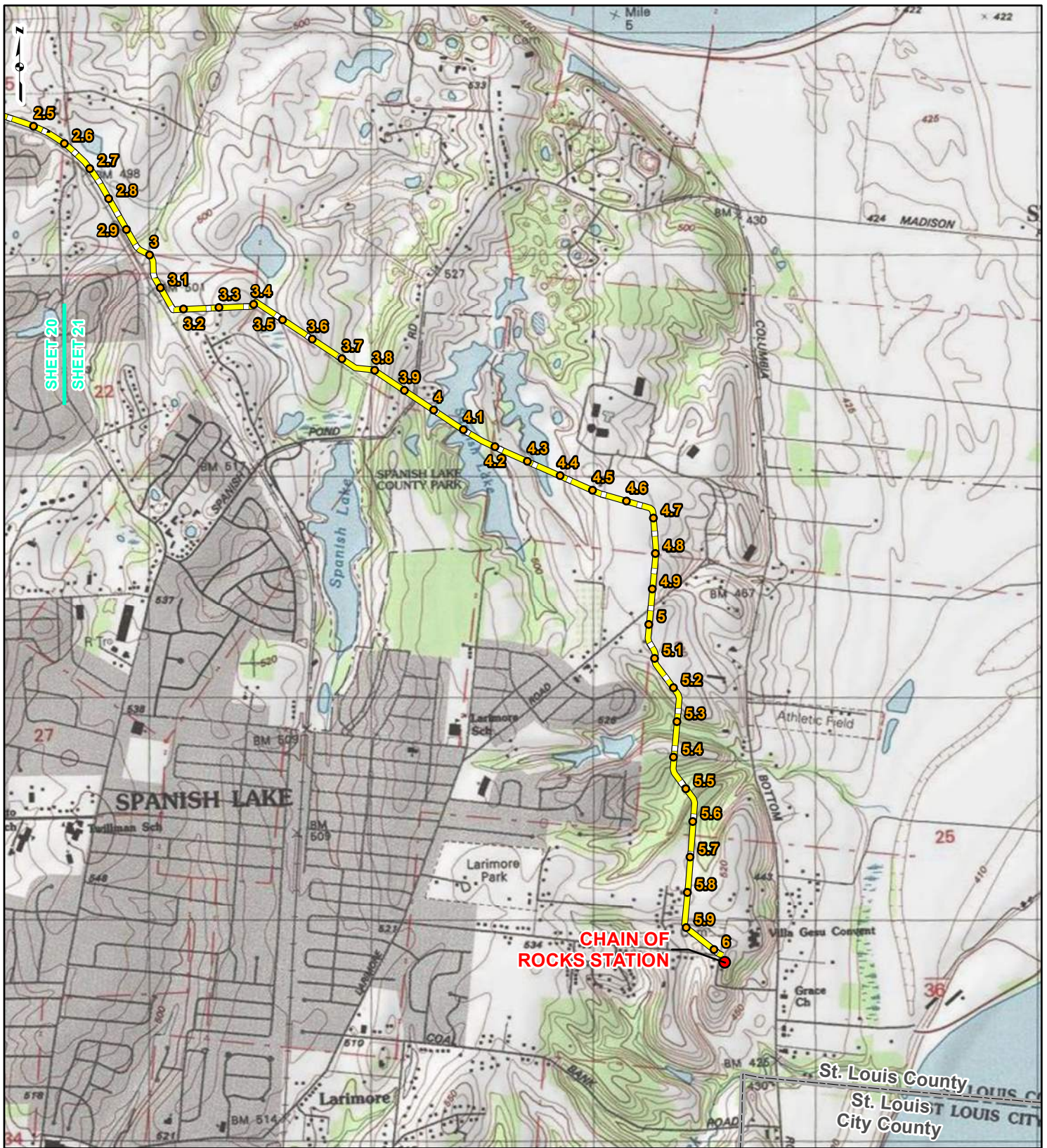
0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 20 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ELSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



LEGEND

● PROPOSED FACILITIES	— 24-INCH PIPELINE NORTH COUNTY
● 24-INCH PIPELINE EXTENSION	— 24-INCH PIPELINE EXTENSION
● NORTH COUNTY MILEPOST	▭ COUNTY BOUNDARY
● EXTENSION MILEPOST	▭ STATE BOUNDARY

0 1,000 2,000 4,000 Feet

**FIGURE 1
LOCATION MAP
SHEET 21 OF 21**

**SPIRE STL
PIPELINE
PROJECT**

DRAWN BY: PMH DATE: 3/28/2017
 CHECKED: SWW APPROVED: LMF

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES: ALSEY (1983), ALTON (1994), BOYER CREEK (1983), CARROLLTON (1983), COLUMBIA BOTTOM (1999), ELSAH (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 03/2017.



March 28, 2017

Mr. Darin LeCrone
Industrial Unit Manager
Illinois Environmental Protection Agency - Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794-9276

**Re: Supplemental Information (Docket No. CP17-40)
Spire STL Pipeline LLC
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Mr. LeCrone:

In June 2016, Spire Pipeline LLC ("Spire") initiated consultation with your office regarding their intent to construct, own, and operate the proposed Spire STL Pipeline Project ("Project") which consisted of approximately 59 miles of new, greenfield 24-inch-diameter steel pipeline (referred to as the "24-inch pipeline") originating at an interconnection with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois; extending down through Greene and Jersey counties in Illinois before crossing the Mississippi River and extending east into St. Charles County, Missouri, crossing the Missouri River and tying into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). Line 880 consisted of approximately seven miles of existing 20-inch-diameter steel pipeline. As part of the proposed Project, Spire was planning on modifying Line 880 before placing it in interstate service. The Project also included the construction of minor aboveground metering and regulating ("M&R") stations. On January 26, 2017, Spire filed an application with the Federal Energy Regulatory Commission ("FERC") for a Certificate of Public Convenience and Necessity for the Project (Docket No. CP17-40-000).

On March 15, 2017, Spire filed a "Preliminary Notification of Preferred Route Change" with FERC, indicating that the Spire no longer plans to modify the existing Line 880 as part of the Project. Instead, Spire intends to construct a new, greenfield 24-inch pipeline (referred to as the "North County Extension") which will extend the 24-inch pipeline portion of the Project to a proposed interconnect with Enable Mississippi River Transmission ("Enable MRT"). Spire plans to file an amended application with FERC in April 2017. GAI Consultants, Inc. ("GAI"), on behalf of Spire, is submitting supplemental information to assist with your review of the Project as amended. An updated description of the proposed Project facilities and location map (Figure 1) are provided herein.

Amended Project Description

The amended Project as proposed will consist of approximately 65 miles of new, greenfield, 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the REX pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with LGC. The second segment of new, greenfield pipeline, North County Extension, will consist of a 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC

interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable MRT and LGC. The total length of the Project pipeline will be approximately 65 miles. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day ("Dth/d"). No compression will be required. The Project also includes the construction of three new M&R stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri.

The acquisition and modifications to LGC's existing Line 880 is no longer proposed as part of the Project.

Spire anticipates a typical 90-foot temporary construction right-of-way width, and a 50-foot permanent easement. The construction right-of-way is anticipated to be reduced to 75 feet at streams and wetlands. An additional 25 feet of temporary work space will be required through agricultural areas, and additional temporary work space will be required to facilitate construction in certain areas, such as crossings of roads, railroads, streams, and wetlands.

The updated Project schedule includes the following target dates:

- July 22, 2016 - National Environmental Policy Act ("NEPA") process began (initiation of FERC Pre-filing process);
- August 2016 through March 2017 (Anticipated) - Biological and Cultural Resource Surveys;
- January 26, 2017 - Application Filed with FERC;
- April 2017 (Anticipated) - File Amended Application with FERC;
- September 2017 (Anticipated) - Draft NEPA Document Published; and
- December 2017 (Anticipated) - FERC Decision on Application.

Construction is anticipated to commence in January 2018.

On behalf of Spire, we'd like to take this opportunity to invite the Illinois Environmental Protection Agency - Bureau of Water to provide comments regarding the Project as it will be amended. We appreciate your continued involvement and cooperation in the review of this important Project.

If you have any questions or would like additional information, please feel free to contact me at 630.605.5255 or by e-mail at L.Ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.



Lori M. Ferry
Environmental Manager

LMF/ka

Attachment: United States Geological Survey (USGS) Topographic Map (Figure 1)

Ali Trunzo

From: Lori Ferry
Sent: Friday, March 03, 2017 4:14 PM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline Project

From: Todd Wheaton
Sent: Friday, March 03, 2017 3:13 PM
To: dan.heacock@illinois.gov
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>; Jayme Fuller <J.Fuller@gaiconsultants.com>
Subject: Spire STL Pipeline Project

Good Afternoon Dan,

I wanted to follow up with you regarding a Joint Permit Application that was submitted to your office on January 27, 2017, for the Spire STL Pipeline Project. We wanted to ensure that you received the application, and to inquire as to whether a specific reviewer had been assigned to the project. Could you please let us know who will be handling our review, and if there is any additional information you may need?

Thanks,
Todd

Todd C. Wheaton

Assistant Environmental Technical Leader

3720 Dressler Road NW, Canton, OH 44718

T 330.433.2680 **D** 234.203.0765 **M** 330.415.8364

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PLANNING, AND
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Indianapolis Office
6420 Castleway West Drive
Indianapolis, IN 46250

T 317.570.6800
F 317.570.6810

January 27, 2017
Project E160438.00

Mr. Dan Heacock
Illinois Environmental Protection Agency
Bureau of Water
Division of Water Pollution Control Permit Section #15
Facility Evaluation Unit
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794

**Nationwide Permit 12 Joint Permit Application
Spire STL Pipeline LLC
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois**

Mr. Heacock:

On behalf of Spire STL Pipeline LLC ("Spire"), GAI Consultants, Inc. ("GAI") is submitting a Nationwide Permit 12 Joint Permit Notification for the Spire STL Pipeline Project ("Project"), located in Scott, Greene, and Jersey Counties, Illinois ("IL").

The proposed Spire STL Pipeline Project will consist of approximately 59 miles of new, greenfield, 24-inch diameter steel pipeline (referred to as the "24-inch pipeline" portion of the Project) originating at an interconnection with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois; extending down through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east in St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River and ties into an existing pipeline in St. Louis County, Missouri that is currently owned and operated by Laclede Gas Company ("LGC") (referred to as "Line 880"). As part of the proposed Project and subject to LGC's receipt of approval from the Missouri Public Service Commission ("MPSC"), Spire is proposing to purchase Line 880 from LGC and modify the pipeline before placing it into interstate service. Line 880 consists of approximately seven miles of existing 20-inch diameter steel natural gas pipeline located in St. Louis County, Missouri that will connect the 24-inch pipeline part of the Project to the Enable Mississippi River Transmission, LLC ("Enable MRT") pipeline along the western bank of the Mississippi River in St. Louis County, Missouri at the terminus of the Project. The total length of the Project pipelines will be approximately 66 miles. The portion of the 24-inch diameter pipeline located within the State of Illinois is approximately 45 miles long. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day ("Dth/d"). No compression will be required. The Project will also include the construction of three new metering and regulating ("M&R") station interconnects with REX in Illinois and LGC and Enable MRT in Missouri and the construction of a new facility at an existing LGC site along Line 880. This Project, as proposed, falls under the oversight of the Federal Energy Regulatory Commission (FERC). The FERC plan and procedures will be adhered to in respect to aquatic resource crossings and restoration, and have been included as Attachment D.

GAI, on behalf of Spire, is hereby submitting the Project's Nationwide Permit ("NWP") 12 Joint Permit Application. This package has been prepared based on the Project adhering to the general and regional conditions of a NWP-12 and Section 401 Water Quality Certification General and Specific Conditions within the State of Illinois. A full copy of this PCN, including resources specific to the State of Missouri, has been concurrently provided to the United States Army Corps of Engineers ("USACE").

United States Fish and Wildlife Service consultation was initiated on August 29, 2016 and a response was received on December 8, 2016. Correspondence with the Illinois Historic Preservation Agency ("IHPA") was initiated on August 29, 2016. A response from IHPA will be provided once received in the anticipation that this permit application's review can be initiated without those documents in hand. Since a portion of the Project is unavailable for cultural resources investigation access at this time, we are requesting authorization of Single and Complete Projects that

receive this concurrence on a time-staggered basis. Agency correspondence is included as Attachment B in the attached Joint Permit Application.

Nationwide Permit (NWP) 12 Joint Permit Application

Spire respectfully requests concurrence that the proposed Project can be authorized under Nationwide Permit 12. The construction of the Project has been designed to limit the amount of impacts to streams and wetlands within the Project area that are assumed to be jurisdictional waters of the United States to the greatest extent practicable.

Additionally, Spire is requesting a Section 10 letter of permission from the USACE for the crossings of the Mississippi and Missouri Rivers, which are both classified as Traditionally Navigable Waters ("TNW's"). In order to evaluate the feasibility, design, and constructability of the horizontal directional drill ("HDD") methods of pipeline installation under the Mississippi and Missouri Rivers, several geotechnical soil test borings were collected on land and along the river bottoms. The results of these test borings are outlined in the geotechnical report, included as Attachment C in the attached Joint Permit Application.

Temporary impacts to 60 streams and 32 wetlands will be necessary to construct the pipeline and access roads associated with the Project in the State of Illinois. Impacted streams and wetlands will be crossed using the dry-ditch open-cut method. A dam and flume method of dewatering is installed to create a dry work area, the trenches are dug, the pipeline is placed, and the trench is then refilled and the work area reclaimed. Additionally, temporary crossings of 20 streams and 14 wetlands located within the Project workspace will also be necessary during construction of the Project. Other aquatic resources, including the Mississippi River, will be crossed using the HDD method. This method involves boring a tunnel beneath the aquatic resources through which the pipeline will be pulled and installed. No physical impacts to the aquatic resources are anticipated to occur with this construction method. Detailed information regarding these impacts can be found in Tables 1 and 2 in the attached Joint Permit Application.

Avoiding stream and wetland impacts has been one of the driving factors in designing the proposed Project, and the currently proposed alignment represents an alternative that reduces stream and wetland impacts to the furthest extent practicable, while still meeting the purpose and need of the Project. Spire intends to utilize mitigation banking programs in IL should the District Engineer determine that compensatory mitigation is required for proposed impacts. Further avoidance and minimization includes the placement of timber mats for equipment crossings of streams and wetlands, and the Limit of Disturbance ("LOD") width will be narrowed to a 75-foot width at all resource crossings.

Streams and Wetlands

Fieldwork associated with stream and wetland investigations for the Project was conducted between September and November, 2016. The surveys identified streams and wetlands within a approximately 300-foot wide corridor centered on the proposed pipeline, and a 50-foot wide corridor surrounding the proposed access roads. Field investigations identified 73 wetlands, 158 waterbodies, and 6 ponds within the Project study area. These features are outlined in the Wetland Delineation and Stream Identification Report, included in the attached Joint Permit Application.

Rare, Threatened, or Endangered Species

Spire initiated consultation regarding the Project with the USFWS in June 2016 and held a meeting with the USFWS Rock Island Field office in July 2016. Prior to the initiation of field surveys, Spire reviewed various sources of available data to determine federally-listed and state-listed or protected species that could potentially inhabit or traverse the Project areas. The USFWS IPaC system was utilized to identify the federally-listed species that could potentially inhabit or traverse the Project area in Scott, Greene, Jersey Counties, Illinois. Spire reviewed this list and the information contained within consultation from the USFWS to determine the species potentially affected from the construction of the Project.

In order to determine state-listed species which have the potential to occur with the Project areas, Spire initiated consultation with the IDNR in June 2016. Spire performed a 0.5-mile Project review search through the IDNR's EcoCAT. No Illinois state rare, threatened, or endangered species were present on the EcoCAT search receipt for Scott and Greene Counties. Since a large search buffer was surveyed in EcoCAT, multiple areas of concern are present on the search receipt that do not occur within the Project area. Spire is coordinating with the IDNR regarding results of the EcoCAT for Jersey County.

Agency permits and approvals associated with the project have been provided in Section 3, Table 3 of the attached Joint Permit Application.

Cultural Resources

Background research was completed on the APE for the Project to gather information from previous cultural resource investigations and on known archaeological sites and historic architectural properties. Background research was acquired through an inventory search at the IHPA and MO SHPO offices. Additional online inventories were accessed by the use of the Inventory of Illinois Archaeological Sites Flex Archaeology Viewer, Illinois CRM Report Archive Database, and MO SHPO's Historic Districts and Sites viewer and Archaeology Viewer.

Eight previously identified archaeological sites extend into the defined APE. No historic or architectural resources are located within the Project's direct APE. Four of these archaeological resources are located in Greene and Scott Counties, Illinois, while the remaining four resources are within St. Charles and St. Louis Counties, Missouri. One of these archaeological sites has been recommended for Phase II archaeological testing, three have been previously determined as Not Eligible for listing in the NRHP, portions of one site were previously recommended not eligible, one site is recorded as being destroyed, and the remaining two sites have not been evaluated for NRHP eligibility. GAI conducted Phase I archaeological studies at each of these eight previously recorded site locations. Two small clusters of artifacts were identified along one site (GE00018). The remaining seven previously recorded sites were unidentified during Phase I survey.

Site GE00307 is situated on a terrace in a cultivated field. A portion of the site is crossed by a proposed access road for the current project. This site was identified in 1995 during a survey by the Center for American Archeology for a proposed four lane highway. The site is a small artifact scatter of lithic flakes and one prehistoric ceramic, dating the site from the Late Woodland. Site GE00307 was previously recommended for Phase II archaeological testing. However, since no artifacts were encountered during the current survey, no additional study is recommended.

Three previously recorded archaeological sites (GE00018, ST00499, and ST00500) in Illinois were determined to be Not Eligible for listing the NRHP. All but one of these resources (GE00018) were identified as a result of previous archaeological surveys. All three sites have an unknown prehistoric temporal affiliation.

Site SC1057 was identified in Missouri during a Phase I survey for the Keystone Pipeline Project in 2016. The portions of the site located within the study corridor of the Keystone Pipeline Project were determined to be Not Eligible for listing in the NRHP. This recorded site boundaries will be avoided by the Project construction right-of-way (ROW).

Site SC5 in Missouri is a Sioux Indian trail that is recorded as being destroyed. Systematic Phase I archaeological studies did not find evidence of an existing trail in the recorded location. This area is currently an active agricultural field.

The remaining two previously recorded archaeological sites (SL157 and SL158) are located in Missouri and remain unevaluated for NRHP eligibility.

Three historic districts are located within a 1-mile radius of the proposed Project. The Principia College Historic District is a National Historic Landmark and is situated approximately 0.8-mile from the APE. The Elsah Historic District is listed in the NRHP and is situated approximately 0.16-mile from the APE. The Chautauqua Historic District is also listed in the NRHP and located approximately 0.4-mile from the APE.

Closing

Spire and GAI thank you in advance for your review of this NWP-12 Joint Permit Application package. Please feel free to contact me at 614-499-6258, or at j.fuller@gaiconsultants.com if there are any questions or concerns.

Sincerely,

GAI Consultants, Inc.



Jayme Fuller
Environmental Manager

Attachments: Nationwide Permit 12 Joint Permit Application