

## No-Rise Certificate

### Re: Spire – Lee’s Summit Pryor Road: Hood to Longview – BFA8022


I hereby certify that there will be No-Rise in the FEMA Base Flood Elevation due to Spire’s proposed project to install a gas line adjacent to the Cedar Creek, in Lee’s Summit, MO, Jackson County.

The hydraulic evaluation of this work in the Floodplain consists of the following:

- I have reviewed the construction work plan and construction details.
- I have determined there will be no net fill, or obstructions, added to the floodplain, or floodway, as a result of this project.
- The Gas Line will be installed via horizontal boring at stream crossings.
- The work area lies in the Cedar Creek Floodplain.

Based on these facts, the attached Construction Work Plans, and the attached screen shots and firm panel from the National Flood Hazard Layer there will be No-Rise caused by this work.



  
Raymond H Frankenberg II, President  
Missouri Professional Engineer #22537  
Certified Floodplain Manager #03-00825

11/20/2023

Date



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State of Missouri Floodplain Development Permit No.: \_\_\_\_\_

## ENGINEERING "NO-RISE" CERTIFICATION

Community: Lee's Summit County: Jackson State: MO

Applicant: Spire Missouri Inc Date: 10/03/2023

Address: 700 Market St, St Louis

Telephone: 314-342-0744

Engineer: Raymond Frankenberg II

Address: 103 Elm, Washington, MO 63090

Telephone: 636-231-4310

### SITE DATA

1. Location: \_\_\_\_\_<sup>1</sup>/<sub>4</sub>; \_\_\_\_\_<sup>1</sup>/<sub>4</sub>; Section 24; Township 47N; Range 32W

Street Address: 1902 SW River Run Drive, Lee's Summit, MO 64082 (nearest address)

2. Panel(s) No. of NFIP map(s) affected: Panel #282 of 29145C0282E

3. Type of Development: Filling ☐ Grading ☒ Excavation ☒ Minor Improv. ☐  
Substantial Improv. ☐ New Construction ☒ Other ☐

4. Description of Development: Installation of natural gas pipeline via horizontal directional drilling (HDD) and open trench methods. Existing grades will be restored such that no substantial change in topography will result.

5. Name of Flooding Source: Cedar Creek

COMMENTS: This gas line installation project is configured such that the installation will not present any additional obstruction within the regulatory floodway and no fill or obstruction shall be placed within the regulatory floodplain.  
Any areas of excavation will be returned to original grade and excess spoils removed.  
All existing contours shall be maintained or re-established.

This is to certify that I am a duly qualified engineer licensed to practice in the State of Missouri. It is to further certify that the attached technical data supports the fact that the proposed development described above will not create any increase to the Base Flood Elevations, on the named flooding source, at published cross sections in the Flood Insurance Study for the above community dated 01/20/2017 and will not create any increase to the Base Flood Elevations at unpublished cross sections in the vicinity of the proposed development.

Name: Raymond H Frankenberg II

Signature: *Raymond H. Frankenberg II* Date: 11/20/2023

Title: PE, PLS, CFM for BFA License No.: E-22537





Job Description: Pryor Road - Hook to Longview

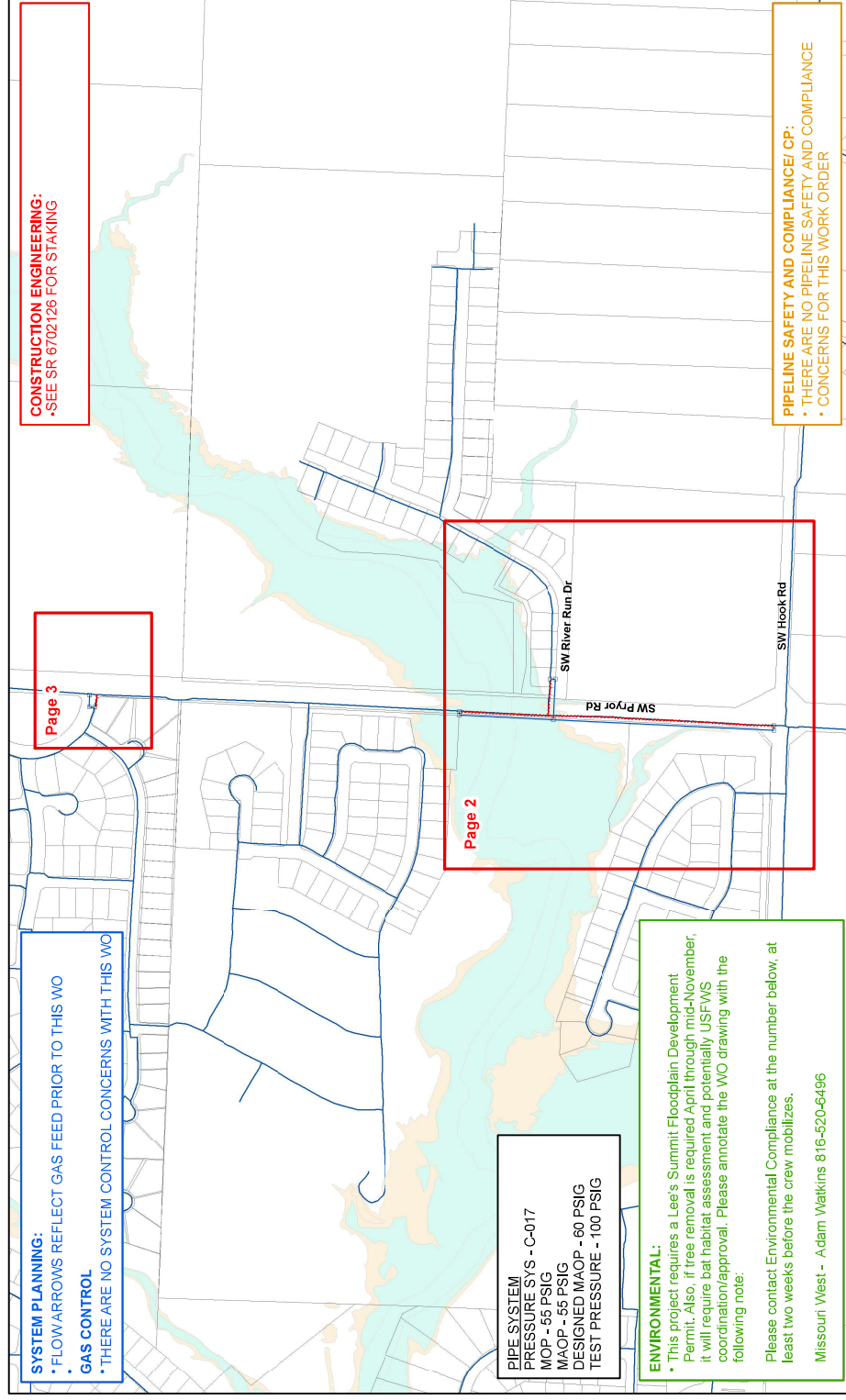
Maximo Work Order: 28693005

Region: South

TownCode: 0901

Sector: 0705

Project #: 806138



1. INSTALL AND ABANDON STEEL AND PLASTIC MAIN AND SERVICES PER SPIRE O&M STANDARDS.
2. SEE STD. 190.A FOR PRESSURE TESTING PIPING REQUIREMENTS.
3. SEE STD. 180.B FOR EVF AND/OR MANUAL SHUTOFF VALVE INSTALLATION REQUIREMENTS.
4. SEE STD. 170.I AND 190.G FOR TRACE WIRE AND TEST STATION INSTALLATION INFORMATION.
5. CORROSION PROTECTION INSPECTOR TO CHECK CATHODIC PROTECTION OF ALL EXISTING CATHODICALLY PROTECTED FACILITIES EXPOSED AND PROTECTED FACILITIES EXPOSED AND DIRECT STEPS NECESSARY TO MAINTAIN PROPER ISOLATION AND CATHODIC PROTECTION AS REQUIRED. A PIPE OBSERVATION REPORT IS TO BE CREATED IN MAXIMO ON READINGS.
6. INSTALL ANODES PER STD. 190.C AND/OR TEST STATIONS PER STD. 190.G PER INSTRUCTIONS FROM CORROSION PROTECTION INSPECTOR.
7. CONDUCT INITIAL CATHODIC PROTECTION SURVEY FOR NEW STEEL INSTALLATION. (See 190.I for Cathodic Protection at Tie Ins)
8. CREATE PIPE OBSERVATIONS IN MAXIMO TO DOCUMENT EXPOSED PIPE CONDITIONS PER STD. 190.A. External Corrosion.
9. FOR UTILITY LOCATES, CALL ONE-CALL SYSTEM "811" OR (1-800-344-7483), AND ALL OTHER AFFECTED UTILITIES.
10. CONTACT GIS DEPARTMENT FOR NECESSARY FIELD NOTES AT 314-349-2963.
11. CONTACT ROW TO SECURE NECESSARY EASEMENTS AND FOR ANY SURVEY WORK@ (314-658-5497 OR 314-349-2933).
12. SEE STD. 170.J FOR SQUEEZE-OFF PROCEDURE
13. SEE STD. 170.A FOR GAS INTERRUPTION PROCEDURE REQUIREMENTS. CONTACT SYSTEM CONTROL AT 314-658-5486 OR 314-658-5488 PRIOR TO ANY WORK.
14. SEE STD. 150.A AND 150.E FOR RADIOGRAPHIC EXAMINATION REQUIREMENTS.
15. SPIRE PERSONNEL SHOULD FOLLOW STANDARD PRECAUTIONS REGARDING THE POTENTIAL FOR DRIP OIL TO BE PRESENT IN ACTIVE GAS MAINS AND ADHERE TO APPROVED PROCEDURES FOR MANAGEMENT/DISPOSAL OF ANY PIECES OF PIPE GENERATED IN THE COURSE OF ABANDONMENT. ANY DOCUMENTED DRIPS SHOULD BE CLEARED AND DRAINED BEFORE ABANDONMENT.

Work Order Authorization

Designer:	Revision Dates:
BKW	
Original Date:	
8-21-23	

Main & Service	Gas Valve	Take Point	Electronic Marker	End Cap	Vertical Ell	Street Car Tracks
Existing	Ball	Drip	Service Tee	Flange	Bend	RCP Reinforced Concrete Pipe
Install	Butterfly	Test Station	Stopper / Bottom Outlet	Insulated Flange	Exposed Pipe	CMP Corrugated Metal Pipe
Proposed	Gate	Regulator Station	Coupling	Cross	Recifier	Contamination
Abandon	Plug	Meter Setting	Insulated Coupling	Reducer	Recifier Cable	DNR Tanks
Gas Pipe Casing	Blow Down	Marker Post	Trace Wire Box	Tee	SteamLines	DNR Remediation







# National Flood Hazard Layer FIRMette



94°25'15"W 38°52'35"N



94°24'38"W 38°52'7"N

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

**SPECIAL FLOOD HAZARD AREAS**

- Without Base Flood Elevation (BFE)  
Zone A, V, A99
- With BFE or Depth  
Zone AE, AO, AH, VE, AR
- Regulatory Floodway

**OTHER AREAS OF FLOOD HAZARD**

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile  
Zone X
- Future Conditions 1% Annual Chance Flood Hazard  
Zone X
- Area with Reduced Flood Risk due to Levee, See Notes, Zone X
- Area with Flood Risk due to Levee  
Zone D

**OTHER AREAS**

- Area of Minimal Flood Hazard  
Zone X
- Effective LOMR
- Area of Undetermined Flood Hazard  
Zone D

**GENERAL STRUCTURES**

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

**Cross Sections with 1% Annual Chance Water Surface Elevation**

- 20.2
- 17.5
- 8
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

**OTHER FEATURES**

- Digital Data Available
- No Digital Data Available
- Unmapped

**MAP PANELS**

- Digital Data Available
- No Digital Data Available
- Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/13/2023 at 4:00 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.