

STAFF REPORT

ITEM: Floodplain Permit Application for extension of a natural gas line in the floodplain of the Little River near the intersection of N. Flood Avenue and W. Franklin Road.

APPLICANT: Oklahoma Natural Gas – Joseph Underwood

ENGINEER: Johnson and Associates, Inc. – Brian Rowe, CFM

BACKGROUND

The applicant requests approval of a floodplain permit to allow installation of a new 4-inch polyethylene gas main extension along the east side of Flood Avenue and south of W. Franklin Road.

The project includes installation of the gas main using a jack-and-bore method, with all work occurring below grade. No permanent above-ground structures, fill placement, or floodplain grading are proposed. All disturbed areas will be restored to pre-construction conditions following installation.

A portion of the alignment is located within a FEMA Zone A Special Flood Hazard Area associated with an unnamed tributary of the Little River.

STAFF ANALYSIS

The project is located within FEMA FIRM Panel 40027C0190K, effective January 15, 2021, and is mapped within Zone A. No regulatory floodway is identified at the project location. Because the project is located in Zone A, a Base Flood Elevation determination was required. The applicant provided a BFE determination prepared by the U.S. Army Corps of Engineers, identifying a BFE of 1142.3 feet NAVD 88 for the unnamed tributary of the Little River.

Proposed Development Characteristics

- Subsurface gas line installation only
- Trenchless jack-and-bore crossing beneath Flood Avenue and the tributary
- No permanent fill, structures, or channel modifications
- Temporary construction disturbance only, with full restoration

APPLICABLE ORDINANCE SECTIONS (36-533)

(e)(2)(a) – Floodplain modification and fill restrictions

(e)(2)(e) – Compensatory storage requirements

- (e)(4)(c) – Special requirements oil and gas
- (f)(3)(8) – No-rise condition requirements

DETAILED ORDINANCE ANALYSIS

(e)(2)(a) – Floodplain Fill Restrictions

Only sub-surface trenching will occur within the floodplain.

(e)(2)(e) – Compensatory Storage

No compensatory storage will be required since there will be no fill brought into the floodplain.

(e)(4)(c) – Special Requirements for Oil and Gas

The applicants submitted plans indicated trenching outside of the floodplain and greater than 50 feet from the edge of the channel. In addition, the bore depth will exceed 10 feet depth below the channel bed.

(f)(3)(8) – No-Rise Requirement

Engineer provided a No-Rise Certification.

RECOMMENDATION

Staff recommends approval of floodplain permit application #736.

ACTION TAKEN:
