

**ITEM:** This Floodplain Permit Application is for the realignment of a sewer interceptor line near the Chardonnay development in the Woodcrest Creek floodplain.

**BACKGROUND:**

APPLICANT: City of Norman Utilities

CONTRACTOR: TBD

ENGINEER: Ken Giannone P.E.

This project involves a short realignment of the Woodcrest Creek Sanitary Sewer interceptor line. The existing line has become exposed in the channel of a tributary creek located north of the Vineyards and east of Chardonnay subdivisions. The project consist of rerouting a new sanitary sewer line outside of the channel of the tributary creek but still within the regulatory floodplain, removing existing exposed line down to a depth of no more than two feet, capping the remaining line, and abandoning that line in place. The new line will be trenched and reburied with any disturbed areas being returned to original grade after installation is complete.

The channel flow line and banks will not be altered at this location. Any damage to the stream banks will be repaired by installation of rip rap at grade to prevent further erosion. Any material placed in the channel will be to replace what has been washed away by erosion and scour or removed during removal of the existing line and is considered routine maintenance.

Site located in Little River Basin or its Tributaries?      yes ☒    no ☐

**STAFF ANALYSIS:**

The project is located in the Woodcrest Creek floodplain (Zone AE). Base flood elevation is 1131.0, and the engineer has certified that there will be no increase in the base flood elevation as a result of this project.

**Applicable Ordinance Sections:**

36-533 (e)(2)(a).....  
          (e)(2)(e).....  
          (e)(2)(j) .....  
          (e)(2)(l) .....  
          (f)(3)(8).....

**Subject Area:**

Fill restrictions in the floodplain  
Compensatory storage  
Utilities constructed to minimize flood damage  
In/exfiltration of flood waters in sanitary sewage  
No rise considerations

(e)(2)(a) and (e)(2)(e) Fill Restrictions in the Floodplain and Compensatory Storage – The use of fill is restricted in the floodplain unless compensatory storage is provided.

The applicant has indicated that no new fill will be brought in as a result of this project, other than what is necessary to replace what has been lost to erosion and to stabilize the banks to prevent erosion. Rip rap and other stabilization material will be installed at grade.

(e)(2)(j) All new construction or substantial improvements shall be constructed with electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities that are designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding. All public utilities and facilities shall be constructed to minimize flood damage.

The sewer line pipe joints have gaskets making the system watertight, and the entire system is leak tested prior to going into service.

(e)(2)(l) New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system and discharge from the systems into flood waters.

The sewer line pipe joints have gaskets making the system watertight, and the entire system is leak tested prior to going into service.

(f)(3)(8) No Rise Considerations – For proposed development within any flood hazard area (except for those designated as regulatory floodways), certification that a rise of no more than 0.05 feet will occur in the BFE on any adjacent property as a result of the proposed work must be provided.

The engineer has certified that the project will not cause a rise in the BFE which meets this ordinance requirement.

**RECOMMENDATION:** Staff recommends that Floodplain Permit Application #714 be approved.

**ACTION TAKEN:** \_\_\_\_\_