

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

The Missouri Department of Natural Resources hereby issues a permit to:

Pike Creek Reorganized Sewer District
4878 Highway PP
Poplar Bluff, MO 63901

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources (Department).

As the department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.


A representative of the department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

December 04, 2019
Effective Date


Edward B. Galbraith, Director, Division of Environmental Quality

December 03, 2021
Expiration Date


Chris Wieberg, Director, Water Protection Program

CONSTRUCTION PERMIT

COLLECTION SYSTEM:

PCRS D Phase 4- The proposed wastewater collection system will consist of a conventional gravity sewer system with lift stations and force mains, which will carry wastewater to the receiving wastewater treatment facility. Phase 4 consists of new construction and the rehabilitation of existing lift stations, manholes, and lining of manholes and gravity mains. Construction will include approximately:

- 1 duplex grinder pump lift station replacement with 2 pumps with a capacity of 42 gpm at 56 TDH;
- 3,050 lf of new 8 inch polyvinyl chloride (PVC) Standard Dimension Ratio (SDR)-35 gravity sewer;
- 10 new precast manholes;
- 14,700 lf of new 12 inch PVC SDR-21 forcemain with 4 air release valves;
- 4,500 lf of new 4 inch PVC SDR-21 forcemain;
- 62 manhole rehabs;
- 340 lf of 8 inch replacement;
- 384 manhole linings;
- 2,738 lf of sewer lining; and
- 495 lf of pipe encasement.

Phase 4 also contains a Bid Alternate 2 for additional work, including 13,390 lf of 8 inch SDR-35 line; 63 new precast manholes; and 580 lf of pipe encasement.

Construction will include of all necessary appurtenances to make a complete and usable wastewater collection system to serve an estimated design average flow of 363,600 gallons per day. The project will also include general site work appropriate to the scope and purpose of the project.

These activities will be in the vicinity in Pike Creek Reorganized Common Sewer District's service area, along State Highway 67, State Highway M to the south, and Highway 60 to the north in Butler County and discharge to an existing sewer system to be treated at the PCRCSD-Wastewater Treatment Facility, MO-0124427. Pike Creek Reorganized Common Sewer District is the project owner and the continuing authority.

This permit does not include the replacement of the aeration or UV disinfection equipment at the treatment plant, which is identified as Bid Alternate 1 in the plans and specifications. That is exempt from construction permitting under 10 CSR 20-6.010(1)(B)4.

PERMIT CONDITIONS:

1. This permit does not cover the replacement of the aeration or UV disinfection equipment at the treatment plant, which is identified as Bid Alternate 1 in the plans and specifications. That is exempt from construction permitting under 10 CSR 20-6.010(1)(B)4.

2. This permit authorizes the activities and scope of work detailed in the plans and specifications submitted with the request. This construction permit does not authorize discharge.
3. All construction shall be consistent with the plans and specifications signed and sealed by Horner & Shifrin, Inc., and as described in this permit.
4. State and Federal Law does not permit bypassing of raw wastewater, therefore steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the department's regional office per 10 CSR 20-7.015(9)(E)2.
5. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(10). "There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto which would permit the passage of any wastewater or polluted water into the potable supply. No water pipe shall pass through or come in contact with any part of a sewer manhole."
 - A. Sewers in relation to water works structures shall meet the requirements of 10 CSR 23-3.010 with respect to minimum distances from public water supply wells or other water supply sources and structures.
 - B. Sewer mains shall be laid at least ten feet (10') horizontally from any existing or proposed water main. The distances shall be measured edge-to-edge. In cases where it is not practical to maintain a ten foot (10') separation, the department may allow a deviation on a case-by-case basis, if supported by data from the design engineer. Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on either side of the sewer and at an elevation so the bottom of the water main is at least 18 inches above the top of the sewer. If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150 pounds per square inch to assure water tightness.
 - C. Manholes shall be located with the top access at or above grade level.
 - D. Manholes should be located at least ten feet (10') horizontally from any existing or proposed water main.

PERMIT CONDITIONS: (continued)

- E. Sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. When it is impossible to obtain proper vertical separation as stipulated above, one of the following methods must be specified:
- 1) The sewer shall be designed and constructed equal to the water pipe and shall be pressure tested to assure water tightness prior to backfilling; or
 - 2) Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends ten feet (10') on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the department for use in water main construction.
6. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one acre or more to obtain a Missouri State Operating Permit to discharge stormwater. The permit requires Best Management Practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits will only be obtained by means of the department's ePermitting system available online at www.dnr.mo.gov/env/wpp/epermit/help.htm.
- See www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm for more information.
7. A United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) issued by the department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S. then a 404/401 will be required. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the department's Water Protection Program at (573) 751-1300 for more information.

See www.dnr.mo.gov/env/wpp/401/ for more information.

8. Upon completion of construction:

- A. Pike Creek Reorganized Common Sewer District will become the continuing authority for operation and maintenance of these facilities;
- B. Submit an electronic copy of the as built's of the project; and
- C. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N).

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