



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

August 30, 2016

The Honorable Alan Stockton, Mayor
City of Pierce City
One Frisco Place
Pierce City, MO 65723

RE: C295696-01 City of Pierce City, MO – Wastewater Disinfection and Pumping
Improvements, Pierce City Wastewater Treatment Facility, MO-0099155, Construction
Permit No. CP0001856

Dear Mayor Stockton:

The Department of Natural Resources' Water Protection Program had previously reviewed and approved the plans and specifications submitted by Anderson Engineering, Inc. for the city of Pierce City, MO and issued Construction Permit No. CP0001229 on September 2, 2014. This permit has since expired and revised plans and specifications have been reviewed and approved and a new permit is being issued. Please find enclosed Construction Permit No. CP0001856 and one set of approved plans and specifications. You must maintain these with your official project file for a minimum of four years following completion of the project.

This permit will terminate 12 months from the date of issuance. In accordance with 10 CSR 20-6.010(4)(G), the department may grant an extension only one time. If you believe that an extension is necessary, you must submit a request and a justification in writing for the extension at least 30 days prior to the permit expiration date.

Nothing in this permit removes any obligations to comply with county or other local ordinances or restrictions.

If you were adversely affected by this decision, you may appeal to have the matter heard by the Administrative Hearing Commission. To appeal, you must file a petition with the Administrative Hearing Commission within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the Administrative Hearing Commission.



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The Honorable Alan Stockton, Mayor
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If you have any questions concerning this matter, please contact Mr. Conrad Blume, P.E., of the Water Protection Program, at (573) 751-5937 or Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176.

Thank you for your efforts to help ensure clean water in Missouri.

Sincerely,

WATER PROTECTION PROGRAM



Shawn Muenks, P.E., SRF Engineering Unit Chief
Financial Assistance Center

SM:cbc

Enclosures

c: Mr. Andy Novinger, P.E., Anderson Engineering, Inc.
Southwest Regional Office
Mr. Conrad Blume, P.E., Water Protection Program, Financial Assistance Center
Mr. Jeremy Payne, Water Protection Program, Financial Assistance Center

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

<p>City of Pierce City One Frisco Place Pierce City, MO 65723</p>

for the construction of (described facilities):

<p>See attached.</p>

Permit Conditions:

<p>See attached.</p>

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.

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.

August 30, 2016
Effective Date

August 29, 2017
Expiration Date


Sara Parker Pauley, Director, Department of Natural Resources


Director, Water Protection Program

CONSTRUCTION PERMIT

COLLECTION SYSTEM:

The proposed lift station improvements consist of replacing the existing lift station with a triplex lift station with any two pumps capable of operating at 640 gallons per minute at 175 feet of total dynamic head, modification of the existing wet well to provide additional storage, and all necessary appurtenances to make a complete and usable lift station. The new lift station will utilize the existing emergency power generator system for backup power.

This lift station will discharge to an existing sewer system to be treated at the Pierce City Wastewater Treatment Facility, Missouri State Operating Permit No. MO-0099155.

WASTEWATER TREATMENT FACILITY:

The proposed wastewater treatment facility improvements will consist of the construction and installation of influent flow measurement equipment, a mechanical cylindrical screen, replacing the missing clarifier “ducking” skimmer arms, an ultraviolet disinfection system capable of treating one million gallons per day, a submersible mechanical mixer in the oxidation ditch, and effluent structure modifications.

The wastewater treatment facility improvements also include the construction and installation of all necessary appurtenances to make a complete and usable wastewater treatment facility. The project will also include general site work appropriate to the scope and purpose of the project. Also no additional flow will result from this project.

PERMIT CONDITIONS:

The permittee is authorized to construct subject to the following conditions:

1. All construction shall be in accordance with the plans and specifications submitted by Anderson Engineering, Inc. on August 2, 2016 and signed and sealed by Mr. Andrew Novinger, P.E. on July 28, 2016, and approved by the department on August 30, 2016.
2. Regulation 10 CSR 20-4.040(19)(B)1 requires that projects be publicly advertised, allowing sufficient time for bids to be prepared and submitted. Projects should be advertised at least 30 days prior to bid opening.
3. The department must be contacted in writing prior to making any changes to the approved plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(8).

4. As per 10 CSR 20-4.040, all changes in contract price or time within the approved scope of work must be by change order in accordance with Section 20 of this rule.
5. This construction permit does not authorize discharge.
6. 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 Southwest Regional Office per 10 CSR 20-7.015(9)(E)2.
7. 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 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 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 should be located at least ten feet horizontally from any existing or proposed water main.
 - D. 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:

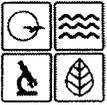
- 1) The sewer shall be designed and constructed equal to the water pipe and shall be pressure tested to assure water tightness prior to backfilling; or
 - 2) Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends ten feet on both sides 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.
8. 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 may 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.

9. 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.

10. Upon completion of construction:
- A. The city of Pierce City will become the continuing authority for operation, maintenance, and modernization of these facilities;
 - B. Submit the enclosed form Statement of Work Completed to the department in accordance with 10 CSR 20-6.010(5)(D); and
 - C. Submit an electronic copy of the as built.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM
APPLICATION FOR CONSTRUCTION PERMIT
WASTEWATER FACILITY

RECEIVED

AUG 01 2016

Water Protection Program

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED <input checked="" type="checkbox"/>	CHECK NO.
DATE RECEIVED	

8-1-16 JB

APPLICATION OVERVIEW

The Application for Construction Permit – Wastewater Facility form is for construction pertaining to domestic wastewater treatment facilities, agrichemical facilities, and components thereof. This form has been developed in a modular format and consists of Part A and B. **All applicants must complete Part A.** Part B should be completed for applicants who currently land-apply wastewater or propose land application for wastewater treatment. **Please read the accompanying instructions before completing this form. Submittal of an incomplete application may result in the application being returned.**

PART A - BASIC INFORMATION

1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)

- 1.1 Is this a Federal/State funded project? YES N/A Funding Agency: SRF Project #: C295696-01
- 1.2 Is this an application for an agrichemical? YES (See instructions.) N/A
- 1.3 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review?
 YES Date of Approval: 9-20-13
- 1.4 Has the department approved the proposed project's facility plan*?
 YES Date of Approval: 10-13-16 NO N/A (If Not Applicable, complete No. 1.5.)
- 1.5 [Complete only if answered Not Applicable on No. 1.4] Is a copy of the engineering report* for wastewater treatment facilities with a design flow less than 22,500 gpd included with this application?
 YES NO
- 1.6 Is a copy of the appropriate plans* and specifications* included with this application?
 YES Denote which form is submitted: Hard copy Electronic copy (See instructions.) NO
- 1.7 Is a summary of design* included with this application? YES NO
- 1.8 Is a general operating permit applicable?
 YES Submit the appropriate operating permit application to the Regional Office at least 60 days prior to operation.
 NO Enclose the appropriate operating permit application and fee submittal. Denote which form: B B2
- 1.9 Is the facility currently under enforcement with the department or the Environmental Protection Agency? YES NO
- 1.10 Is the appropriate fee included with this application? YES NO (See instructions for appropriate fee.)

* Must be affixed with a Missouri registered professional engineer's seal, signature and date.

2.1 NAME OF PROJECT

City of Pierce City, MO - Wastewater Disinfection and Pumping Improvements

2.2 PROJECT DESCRIPTION

Provision of ultraviolet disinfection, mechanical screening and other improvements at the City's existing wastewater treatment plant, and provision of a new triplex submersible lift station, wet well, hoist, and controls at the City's existing dry-pit Lift Station A, along with piping and work related thereto in accordance with the plans and specifications.

2.3 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION

No associated work proposed.

2.4 DESIGN INFORMATION

A. Current population: 1,400 (est.); Design population: 1,600
 B. Actual Flow: 135,000 (est.) gpd; Design Average Flow: 200,000 gpd;
 Actual Peak Daily Flow: 780,160 gpd; Design Maximum Daily Flow: 897,792 gpd;
 Design Wet Weather Event: 623.5 gpm

2.5 ADDITIONAL INFORMATION

- A. Is a topographic map attached? YES NO
- B. Is a process flow diagram attached? YES NO

2.6 ESTIMATED PROJECT CONSTRUCTION COST

\$ 835,000.00

3.0 WASTEWATER TREATMENT FACILITY

NAME Pierce City Wastewater Treatment Facility		TELEPHONE NUMBER WITH AREA CODE (417) 476-2323	EMAIL ADDRESS	
ADDRESS (PHYSICAL) W. Newman Avenue	CITY Pierce City, MO	STATE MO	ZIP CODE 65723	COUNTY Lawrence
Wastewater Treatment Facility: Mo- 0099155 (Outfall 1 Of 1)				
3.1 Legal Description: NE ¼, NW ¼, SE ¼, Sec. , T 26 , R 28 (Use additional pages if construction of more than one outfall is proposed.)				
3.2 UTM Coordinates Easting (X): 4096 Northing (Y): 4088 For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)				
3.3 Name of receiving streams: Unnamed Tributary of Clear Creek				

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Water Protection Program

4.0 PROJECT OWNER

NAME Pierce City, Missouri		TELEPHONE NUMBER WITH AREA CODE (417) 476-2323	EMAIL ADDRESS	
ADDRESS One Frisco Avenue	CITY Pierce City	STATE MO	ZIP CODE 65723	

Provide the name of the continuing authority that will serve as the continuing authority for the operation, maintenance

NAME Same As Owner		TELEPHONE NUMBER WITH AREA CODE	EMAIL ADDRESS	
ADDRESS	CITY	STATE	ZIP CODE	

5.1 A letter from the continuing authority, if different than the owner, is included with this application. YES NO N/A

5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A MISSOURI PUBLIC SERVICE COMMISSION REGULATED ENTITY.
A. Is a copy of the certificate of convenience and necessity included with this application? YES NO (Not Applicable)

5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A PROPERTY OWNERS ASSOCIATION. (Not Applicable)
A. Is a copy of the as-filed restrictions and covenants included with this application? YES NO
B. Is a copy of the as-filed warranty deed, quitclaim deed or other legal instrument which transfers ownership of the land for the wastewater treatment facility to the association included with this application? YES NO
C. Is a copy of the as-filed legal instrument (typically the plat) that provides the association with valid easements for all sewers included with this application? YES NO
D. Is a copy of the Missouri Secretary of State's nonprofit corporation certificate included with this application? YES NO

ENGINEER NAME / COMPANY NAME Anderson Engineering, Inc.		TELEPHONE NUMBER WITH AREA CODE (417) 866-2741	EMAIL ADDRESS anovinger@aeincmo.com	
ADDRESS 2045 W. Woodland	CITY Springfield	STATE MO	ZIP CODE 65807	

7.0 PROJECT OWNER: I hereby certify that I am familiar with the information contained in this application and to the best of my knowledge and belief such information is true, complete, and accurate, and if granted this permit, I agree to abide by the Missouri Department of Natural Resources regulations, orders, and decisions, subject to any legitimate appeal available to applicant under Missouri Clean Water Law. I also understand the issuance of the construction permit does not guarantee the proposed wastewater treatment will meet the required effluent limitations of the issued Missouri State Operating Permit for this facility.

PROJECT OWNER SIGNATURE


PRINTED NAME Alan Stockton	DATE 07/23/16
TITLE OR CORPORATE POSITION Mayor	TELEPHONE NUMBER WITH AREA CODE (417) 476-2323
	EMAIL ADDRESS

Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

END OF PART A
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHETHER PART B NEEDS TO BE COMPLETE



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Water Protection Program

July 22, 2016

Mr. Conrad Joe Blume, PE
MISSOURI DEPARTMENT OF NATURAL RESOURCES
Water Protection Program Financial Assistance Center
1101 Riverside Drive
Jefferson City, MO 65101
P.O. Box 176
Jefferson City, MO 65102-0176

RE: PIERCE CITY WASTEWATER IMPROVEMENTS - CONSTRUCTION PERMIT

Dear Mr. Blume:

Please find the accompanying Construction Permit Application. A permit was previously approved for the project, but due in part to financial delays, the project was not constructed before the permit expired. As the project is generally the same as previously approved and a permit fee was previously paid, we are requesting on the City's behalf that the permit fee associated with this reapplication be waived.

Do not hesitate to contact me at 417-866-2741 should you have any questions or need any additional information.

Thanks.

Sincerely,

ANDERSON ENGINEERING, INC.

Andrew T. Novinger, P.E.

Encl.