STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

The Missouri Department of Natura	Resources hereby issues a permit to	o:
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Construction Permit ID: MOGSE0464

Title of Project: City of Lee's Summit
Owner: City of Lee's Summit
Address: 220 SE Green Street

LEE'S SUMMIT, MO 64063

The project will also include general site work appropriate to the scope and purpose of the project and will include all the necessary appurtenances to make a complete and usable collection system. The construction of this project will be in the vicinity of the county below and discharge to Receiving Permit ID below:

County: Jackson Receiving Permit ID: MO0101087

for the construction of (described construction project):

Chipman Road Improvements View High Dr to Bent Tree Dr-Construction of approximately 1,084 lf of 8-inch PVC SDR-26 gravity sewer lines with approximately 7 new manholes to serve existing infrastructure. No additional flow is proposed with this relocation.

Project is in the vicinity of Chipman Road and Cedar Creek in Lees Summit, Jackson County, and discharges to an existing system to be treated at the LBVSD Atherton WWTP, MO0101087. Craig M. Kohler, P.E., Senior Staff Engineer with Lees Summit Public Works signed the application for the continuing authority on January 3, 2023.

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.

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

January 25, 2023	Chie Wieberg	
Issue Date	Chris Wieberg, Director	
	Water Protection Program	

January 02, 2025
Expiration Date

APPLICABILITY

- 1. This permit authorizes the construction of gravity sewer extensions, force mains, and lift stations. Non-earthen flow equalization storage basins at lift stations and inline storage, which flows back into the lift station or collection system, are also included.
- 2. A site specific sewer extension construction permit may be required by the Department due to compliance and enforcement actions.
- 3. Projects located within an Approved Sewer Program as noted in the operating permit of the receiving wastewater treatment facility are not required to obtain a construction permit from the Department of Natural Resources (Department).
- 4. This permit does not apply to:
 - A. Earthen storage basins;
 - B. Exempt projects unless requested by the applicant or required by enforcement.

PREREQUISITES:

- 1. The General Sewer Extension Construction Permit application, appropriate fee, and documentation in accordance with 10 CSR 20-6.010(5)(G).
- 2. The plans and specifications each signed and sealed by a professional engineer registered in the State of Missouri in accordance with 10 CSR 20-8 and 10 CSR 20-6.010.
- 3. The Design Certification form or Engineering Report or Summary of Design signed and sealed by a professional engineer registered in the State of Missouri certifying the design of the system was prepared in accordance with 10 CSR 20-6 and 10 CSR 20-8.
- 4. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting the wastewater for treatment and indicating the permitted treatment facility has the available capacity.
- 5. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting the responsibility for operation and maintenance of these facilities.

PERMIT CONDITIONS:

- 1. This permit authorizes the activities and scope of work detailed in the plans and specifications submitted with the request.
- 2. The construction must be in accordance with the final plans and specifications approved by the Department.
- 3. 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., or through the Online Bypass/SSO Reporting system found at https://dnr.mo.gov/eservices.htm under Water Protection.

PERMIT CONDITIONS: (continued)

- 4. Protection of drinking water supplies must meet the requirements of 10 CSR 23-3.010.
 - A. 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.
 - B. Sewers shall be laid at least fifty feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures.
- 5. Manholes shall be located with the top access at or above grade level.
- 6. In addition to the requirements for a construction permit, see 10 CSR 20-6.200 for land disturbance requirements 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 <u>www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm</u> 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. If this project eliminates a wastewater treatment facility under the jurisdiction of the Department, then a full closure plan shall be submitted with a Facility Closure Request Form, Form MO 780-2512 to the Department's appropriate regional office for review and approval. In accordance with 10 CSR 20-6.010(12), the closure plan must meet the requirements outlined in Standard Conditions Part III, of the Missouri State Operating Permit. Closure shall not commence until the submitted closure plan is approved by the Department.
- 9. If this project is part of a project to resolve an enforcement action or is receiving funding from the Department, submit a statement of work complete following the completion of construction

MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM APPLICATION FOR CONSTRUCTION PERMIT – SEWER EXTENSION

FOR DEPARTMENT USE ONLY				
APP NO.	CP NO.			
FEE RECEIVED	CHECK NO.			
DATE RECEIVED				

				BATTE NEGETVEB	
NOTE ► Please Read the accompanying i	nstructions before	e completing the	his form		
1.0 APPLICATION INFORMATION (Note – I considered incomplete and returned.)	f any of the question	ns in this section	n are answe	red NO, this applica	ation may be
1.1 Is this a Federal/State funded project?	☐ YES 🗹 N/A	Funding Age	ncy: City of	Lee's Summit Pro	ject #: 73-3221
1.2 Has the Department of Natural Resource ☐ YES Date of Appro		posed project's	engineering	report*?	☑ N/A
1.3 Is a copy of the appropriate plans* and s		-	•	☑ YES ☐ NO	
If the project is using standard specificati	ons, name of comr	nunity: City of L	ee's Summit		
1.4 Is a summary of design* included with th	s application?	YES 🗹 NO)		
1.5 Is the appropriate fee or JetPay confirma See Section 7.0	tion included with t	his application?	YES	□NO	
* Must be affixed with a Missouri registered p	rofessional engine	er's seal, signat	ure and date		
2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT					,
Chipman Road View High Drive to Bent Tree	Drive				
ADDRESS	CITY	-	STATE	ZIP CODE	COUNTY
Chipman Road and Edgewood Drive	Lee's Summit		МО	64081	Jackson
2.2 Legal Description: ¼, NW ½	, NE ¼, S	ec. 03 ,	T 47 N ,	R 32 W	
2.3 Project Components (check all that apply ☑ Gravity sewers ☐ Pumping station		s 🗌 Alternat	ive sewer sy	stem	escribe below.)
2.4 PROJECT DESCRIPTION		-t -f O-d O		mandle side of Obinom	and David and
Realignment/Replacement of 350 ft of 8" PVC realignment/replacement of 730 ft of 8" PVC s	sanitary sewer ea	st of Cedar Cree I of Cedar Cree	ek along the s	north side of Chipm	an Road and
these replacements are due to the roadway a					
flows are added to the system because of this	project.	_	-		
2.5 DESIGN INFORMATION A. Population or number of lots to be served	bv this extension:	approx. 150 ac	res. 85 lots		
B. Estimated flow to be contributed by this ex	_			Design Peak Hourly	y Flow: 2.171 gph
C. Industrial Wastes: Type: n/a	Flow:	gpd			
D. Receiving Sewer: Size: 30&36 inches	Capacity: 26	,300 gpm			
E. Does this project (check all that apply):					
☑ Connect to an existing treatment plant □	Resolve enforcer	ment issue	Eliminate or	consolidate an exis	ting treatment plant
F. Estimated number of onsite systems being removed:					
G: Estimated costs associated with piping: \$ Estimated costs associated with lift station(s): \$					
3.0 PROJECT OWNER					
NAME		NE NUMBER WITH AR	REA CODE	EMAIL ADDRESS	Al A
City of Lee's Summit ADDRESS	816-969 CITY	I-18UU	STATE	Craig.Kohler@city	voiis.net
220 SE Green St.	Lee's Summit		MO	64063	
CHARTER NUMBER (SECRETARY OF STATE) or REGISTERED	AGENT	:		•	

4.0 CONTINUING AUTHORITY: A continuing authority is a company, business, entity, or person(s) that will be legally responsible for ensuring compliance with the permit requirements and provide continuous stable oversight of the permitted facility or activity. The Continuing authority should be a relatively permanent entity responsible for the ongoing operation, maintenance and modernization, when needed, of the permitted facility or activity. A continuing authority is not, however, an entity or individual that is contractually hired by the permittee to sample or operate and maintain the system for a defined time period, such as a certified operator or analytical laboratory. To access the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit Clean Water Commission Chapter 6. A continuing authority's name must be listed exactly as it appears on the Missouri Secretary of State's (SoS's) webpage: Missouri Secretary of State, unless the continuing authority is an individual(s), government entity, or otherwise not required to register with the SoS. TELEPHONE NUMBER WITH AREA CODE EMAIL ADDRESS City of Lee's Summit ADDRESS CITY STATE ZIP CODE CHARTER NUMBER (SECRETARY OF STATE) 4.1 Has appropriate continuing authority acceptance been provided as follows: A letter from the continuing authority accepting responsibility for continued maintenance of the sewer (if the continuing authority is different than the original owner of the construction), or a properly executed "Continuing Authority and Receiving Wastewater **☑** N/A Treatment Facility Acceptance" Form 780-2584. ☐ YES ON 🔲 **5.0 ENGINEER** ENGINEER NAME / COMPANY NAME
Cody Porter/ Wilson & Company TELEPHONE NUMBER WITH AREA CODE EMAIL ADDRESS cody.porter@wilsonco.com 816-701-3155 CITY STATE ZIP CODE 800 E. 101st Terr., Suite 200 Kansas City 64131 MO **6.0 RECEIVING WASTEWATER TREATMENT FACILITY** NAME TELEPHONE NUMBER WITH AREA CODE EMAIL ADDRESS LBVSD Atherton WWTF 816-796-9191 lilly@lbvsd.org MISSOURI STATE OPERATING PERMIT # COUNTY REMAINING CAPACITY (GPD) MO-0101087 Jackson 22 MGD 6.1 If different from the owner, has a letter been provided from the receiving treatment facility demonstrating that they agree to accept the expanded flow or has a properly executed Continuing Authority and Receiving Wastewater Treatment Facility Acceptance MO 780-2584 form been provided? ☐ YES ☐ NO ☑ N/A 6.2 A letter from the receiving wastewater treatment facility, if different than the continuing authority, is included with this application. ☐ YES ✓ N/A 6.3 If the receiving treatment plant or continuing authority is regulated by the Public Service Commission (PSC) for sewer activities, a ✓ N/A Certificate of Convenience and Necessity has been received?

Yes – Date: OPTIONAL QUESTIONS REGARDING MILITARY SERVICE Have you or an immediate family member ever served in the ☐ Yes ✓ No U.S. Armed Forces? If yes, would you like information about military-related services ☐ Yes ✓ No in Missouri? 7.0 Application Fee ✓ JetPay Confirmation Number 20039731 ☐ Check Number 8.0 PROJECT OWNER: I certify under penalty of law this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. PROJECT OWNER SIGNATURE Crain M. Will PRINTED NAME DATE Craig Kohler 1/3/2023 TITLE OR CORPORATE POSITION EMAIL ADDRESS TELEPHONE NUMBER WITH AREA CODE Senior Staff Engineer 816-969-1800 Craig.Kohler@cityofls.net Mail completed copy to: Submit completed electronic copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES Missouri Department of Natural Resources WATER PROTECTION PROGRAM at DNR.WPPEngineerSection@dnr.mo.gov **PO BOX 176** JEFFERSON CITY, MO 65102-0176

9.0 SE	WER EXTENSIO	N CHECKLIST		
		ESIGN CERTIFICATION: Answer all questions yes or N/A. Answer N/A only if the question is of the proposed sewer extension.	clearly r	not
	REGULATION		YES	N/A
1.	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?		V
2.	8.110(3)(B)	Are average design flows, peak hourly flows and I&I contributions for new systems calculated?		V
3.	8.110(9)(B)	Is there a detailed plan showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities?		V
4.	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains and combined wastewater?	V	
5.	8.120(3)(A)	Is the pipe installation, embedment and backfill designed to prevent damage to the pipe and its joints?	V	
6.	8.120(3) (A)1	Is all sewer pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second?	V	
7.	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?		
8.	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?	V	
9.	8.120(4)(A)	Are manholes located at the end of each line, at all changes in grade, size or alignment and at all intersections?	V	
10.	8.120(4)(C)	Are manholes at least 42 inches in diameter with a clear opening of 22 inches on sewer line larger than 8"?	V	
11.	8.120(4)(C)	Where cleanouts are used at the end of a lateral instead of a manhole, they are a minimum diameter of 8 inches or larger and equal to the diameter for pipes < 8"?		V
12.	8.120(4)(E)	Are the manholes watertight, constructed and installed in accordance with the	V	
13.	8.120(4)(F)	manufacturer's recommendations and procedures? Do the specifications include a requirement for inspection and testing for manholes?		
			V	<u></u>
14.	8.120(5)(A)	Is the sewer free from physical connections to a potable water supply system and no water pipes come in contact with a sewer manhole?	V	
15.	8.120(5)(B)	Are sewers and manholes located at least 50 feet horizontally from any existing or proposed water supply well, sources, structures?		
10.0 P	RESSURE SEWE	RS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST		
	REGULATION		YES	N/A
16.	8.125(5)(A)1.	Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?		V
17.	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?		V
18.	8.125(5)(B)	Are appurtenances compatible with the piping system?		V
19.	8.125(5)(B)2.	Are isolation valves located: upstream of major pipe intersections; both sides of stream, bridge and RR crossings; at terminal end of system?		
20.	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25"?		V
21.	8.125(5)(D)1.A	Do simplex grinder pump stations service only a single equivalent dwelling unit (EDU)? i.e. 1 residence – 1 grinder pumpt.		V
22.	8.125(5)(D)1.B	Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?		V
23.	8.125(5)(D)3.	Is there at least 70 gallons of storage in the grinder pump unit?		v
24.	8.125(5)(D)4.	Do grinder pump stations have shutoff valves, check valves and anti-siphon valves (where siphoning could occur) that are accessible from the ground surface?		V
25.	8.125(5)(D)7., 8.130(3)(B)2.	Are units serviceable and replaceable under wet conditions without electrical hazard and is electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?		v
26.	8.125(5)(D)8., 8.125(2)(F)6.	Are provisions in place to avoid interruption of service due to mechanical or power failure by providing standby power, storage capacity, or interconnection with another disposal system?		V
27.	8.125(6)(D)	In a STEP system is at least one septic tank (1,000 gallons or more) provided for each EDU with 20% of tank volume dedicatied to freeboard and ventillation?		V
28.	8.125(6)(F)	Are duplex pumps provided for the design flow of 1,500 gallons or greater?		

11.0 PUMP STATION CHECKLIST							
REGULATION					YES	N/A	
29.	8.125(7)(C)	Is the minimum diameter sewer main pipe and service line of STEG sewer at least 4"?				V	
30.	8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?					V
31.	8.130(3)(A)	Is the dry well con access provided to	well completely separate from the wet well and is a suitable and safe means of ovided to each?				V
32.	8.130(3)(B)	If the design flow i provided?	the design flow is 1,500 gpd or more, are there at least 2 pumps or pneumatic ejectors				V
33	8.130(3)(D)	Are valves located	l outside wet well unles	ss integral to a pump o	r its housing?		V
34.	8.130(3)(F) 8.140(8)(J)	Do wet and dry we	ells have separate vent	tilation systems?			V
35.	8.130(3)(G)	Does all potable w	ater brought to pump	stations comply with 8.	140(7)(D)?		
36.	8.130(6)	Is an alarm system	n provided with uninter	rupted power?			V
37.	8.130(7)(A)			urly flow for a design flosign flow < 100,000 gp	ow > 100,000 gpd or 4 hrs d?		V
38.	8.130(7)(B)	Are there indepen		provided for emergend	cy power capable of starting		V
39.	8.130(8)(A)		elocity of ≥ 2 ft/s main				V
40.	8.130				ons provided that include and spare parts that may be		<u> </u>
12.0 S	UCTION LIFT PU		SIBLE PUMP STATIO	N CHECKLIST	9		
	REGULATION					YES	N/A
41.	8.130(4)	Are the suction lift	pumps of the self prim	ning or vacuum priming	type?		V
42.	8.130(4)(A)	Is the combined total of dynamic suction lift at the "pump off" elevation and required net positive suction head at design operating conditions less than or equal to 22 feet?				V	
43.	8.130(4)(B)	Are there dual vac	uum pumps capable o	f removing air from the	suction lift pump?		V
44.	8.130(5)(A)		umps readily removab pipe in the wet well?	le and replaceable with	nout personnel entering, or		v
13.0 S	EWER EXTENSION	ON CHECKLIST (CERTIFICATION STA	TEMENT			
		ered "N/A" provide a	n explanation. Also pro	ovide any useful gener	al comments regarding design	n for rev	iew
engine		of realignment of a	n ovieting cowor main	to accommodate the re	padway improvements. No ado	ditional f	low is
					nes, all ends are manholes. T		
pressur	e sewers, pump s	tation, or suction lift	pump included with th	e proposed improveme	ents.		
				TITUTE OF			
					THE SECOND		
				CODY I	1010		
Missou	ıri Professional En	igineer's seal, signa	ture and date:	PORT	TER **		
NUMBER							
PE-2020002925 2 1/3/2023 C 2 1							
Name: Cody D. Porter							
Address: 800 E. 101st Terr. Suite 200							
City: Kansas City State: Missouri ZIP Code: 64131							
Telephone Number with Area Code: 816-701-3100 Email:cody.porter@wilsonco.com							