## STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



### GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

The Missouri Department of	f Natural Resources hereby issues a permit to:
Construction Permit ID: Title of Project: Owner: Address:	MOGC00837 The Highlands Subdivision The Highlands Subdivision Old Gray Summit Road Pacific, MO 63069
	e general site work appropriate to the scope and purpose of the project and will include all the necessary implete and usable collection system. The construction of this project will be in the vicinity of the county eiving Permit ID below:
County: Franklin	Receiving Permit ID: MO0041131
for the construction of (desc	ribed construction project):
	on-Construction of approximately 1,651 lf of 8-inch PVC SDR-35 gravity sewer lines with s to serve a 74 PE and a design average flow of 7,400 gpd.
existing system to be treat	of Old Gray Summit Road in the City of Pacific, Franklin County and discharges to an sted at Pacific WWTP, MO-0041131. Robert Brueggemann, Public Works Commissioner, ided an acceptance letter dated December 6, 2024.
RSMo, and regulation prom As the Department does not permit does not include appr	need facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, ulgated thereunder, or this permit may be revoked by the Department of Natural Resources (Department) examine structural features of design or the efficiency of mechanical equipment, the issuance of this roval of these features.  The construction of water pollution control components; it does not apply to other environmentally
January 28, 2025 Issue Date	John Hoke, Director Water Protection Program
January 27, 2027	

**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. The Missouri Department of Natural Resources may require a site-specific sewer extension construction permit due to compliance and enforcement actions in accordance with 10 CSR 20-6.010(13)(C).
- 3. This permit does not apply to:
  - A. Earthen storage basins;
  - B. Exempt projects in accordance with 10 CSR 20-6.010(1)(B), 10 CSR 20-6.010(5)(B), and RSMo 644.051 unless requested by the applicant or required by enforcement.

### **PREREQUISITES:**

- 1. The Sewer Extension Construction Permit application, appropriate fee, and documentation in accordance with 10 CSR 20-6.010(5)(G).
- 2. Submit the Sewer Extension Construction Permit application at least sixty (60) days in advance of the start of construction in accordance with 10 CSR 20-6.010(5)(F).
- 3. Submit an electronic copy of the construction permit application and documents to <a href="mailto:DNR.WPPEngineerSection@dnr.mo.gov">DNR.WPPEngineerSection@dnr.mo.gov</a> in accordance with 10 CSR 20-6.010(5)(G)3.
- 4. The plans and specifications, each signed, sealed, and dated by a professional engineer registered in the State of Missouri in accordance with 10 CSR 20-8 and 10 CSR 20-6.010.
- 5. The Design Certification form, Engineering Report, or Summary of Design, signed, sealed, and dated by a professional engineer registered in the State of Missouri, certifying the design of the system is in accordance with 10 CSR 20-6 and 10 CSR 20-8.
- 6. 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.
- 7. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting responsibility for the 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 received by the Department. Revisions that affect capacity, flow, or system layout must be approved by the Department prior to construction.

#### **PERMIT CONDITIONS: (continued)**

- 3. If construction will incorporate minor changes from previously submitted plans and specifications (i.e., changes that do not affect the capacity, flow, or system layout), submit an electronic copy of the as-built plans and specifications in accordance with 10 CSR 20-8.110(11).
- 4. State and Federal Law does not permit bypassing of raw wastewater; therefore, the applicant must take steps 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) or through the Online Bypass/SSO Reporting service on the Missouri Gateway for Environmental Management (MoGEM) portal found at <a href="https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem">https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem</a>.

See <a href="https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988">https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988</a> for more information.

- 5. Protection of drinking water supplies must meet the requirements of 10 CSR 20-8.120(5).
  - A. There shall be no physical connections between a public or private potable water supply system and a sewer or appurtenance that would permit the passage of any wastewater or polluted water into the potable supply.
  - B. Lay sewers at least 50 feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures.
- 6. Position manholes so that the top access is at or above grade level.
- 7. 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. Applicants shall obtain land disturbance permits through the Department's ePermitting system, available online at <a href="https://dnr.mo.gov/data-e-services/water/electronic-permitting-ep

See <a href="https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance">https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance</a> for more information.

8. Entities applying for funding under 10 CSR 20-4, "Grants and Loans" will need to comply with those requirements in addition to the requirements of 10 CSR 20-8.

### **PERMIT CONDITIONS: (continued)**

9. The Department may require a United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) or a permit waiver for the activities described in this permit. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S., then a 404/401 is required. Fulfillment of these requirements is necessary before the permit is considered valid. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the Department's Operating Permits Section at 573-522-4502 for more information.

See <a href="https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality">https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality</a> for more information.

- 10. If this project eliminates a wastewater treatment facility under the jurisdiction of the Department, then the applicant shall submit a full closure plan 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 Department approves the submitted closure plan.
- 11. If this project is part of a project to resolve an enforcement action or is receiving funding from the Department, submit a <u>statement of work complete</u> following the completion of construction.
- 12. Applicants may submit, prior to the expiration date of this permit, a written request that additional time is needed in accordance with 10 CSR 20-6.010(5)(H)3.

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# MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM

# APPLICATION FOR CONSTRUCTION PERMIT – SEWER EXTENSION

FOR DEF	PARTMENT USE ONLY
APP NO.	CP NO.
FEE RECEIVED	CHECK NO.
DATE RECEIVED	

					DATE RECEIVED	
NOTE ► Please Read the accomp	anying	instructi	ons before completing	this form		
1.0 APPLICATION INFORMATION considered incomplete and returned	(Note -	If any of	the questions in this sec	tion are answ	ered NO, this applica	ation may be
1.1 Is this a Federal/State funded pr		☐ YES			Pro	ject #:
1.2 Has the Department of Natural  YES Date	Resource of Appr	es approv oval:	ved the proposed project	's engineering	g report*?	☑ N/A
1.3 Is a copy of the appropriate plan				pplication?	☑ YES ☐ NO	E WA
If the project is using standard s						
1.4 Is a summary of design* include						
1.5 Is the appropriate fee or JetPay See Section 7.0	confirma	ation inclu	uded with this application	? 🗹 YES	□NO	
* Must be affixed with a Missouri reg	istered p	rofession	nal engineer's seal, signa	ture and date	).	
2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT						
The Highlands Subdivision						
ADDRESS		CITY		STATE	ZIP CODE	COUNTY
Old Gray Summit Road		Pacific		МО	63069	Franklin
2.2 Legal Description: ¼, S	w <sup>y</sup>	SE	1/4, Sec. 10 ,	T 43N	R 2E	
2.3 Project Components (check all the Gravity sewers ☐ Pumpin			orce mains	A*		
2.4 PROJECT DESCRIPTION	y station	<u> </u>	orce mains	tive sewer sy	stem	escribe below.)
Construction of approximately 1,651 appurtenances. The new sanitary sev	ver main	Will Serve	e 20 residential lots.			
2.5 DESIGN INFORMATION A. Population or number of lots to be	conund	bu thin ou	dan-dan- 00 t			
B. Estimated flow to be contributed b     C. Industrial Wastes: Type:	y mis ex	tension: Flo		7,400 gpd	Design Peak Hourly	Flow: 1,319 gph
D. Receiving Sewer: Size: 8	inches		pacity: 583 gpm			
E. Does this project (check all that a	oply):		Page 95 11			
☑ Connect to an existing treatment p		Resolve	e enforcement issue	Eliminate or	consolidato en evieti	
F. Estimated number of onsite system				Limitate of t	consolidate an existi	ng treatment plant
G: Estimated costs associated with p				ssociated with	n lift station(s): \$	
3.0 PROJECT OWNER						
NAME DId Gray Summit LLC - Brian Jessup			TELEPHONE NUMBER WITH AR 314-496-4313	EA CODE	EMAIL ADDRESS bj@quadprop.com	
ADDRESS 12647 Olive Boulevard, Suite 510	- 1,	CITY St. Louis		STATE MO	ZIP CODE 63141	
CHARTER NUMBER (SECRETARY OF STATE) or REG	ISTERED A	SENT				
C001603925						

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 City of Pacific 636-257-2163 rb@pacificmissouri.com ADDRESS CITY STATE ZIP CODE 300 Hoven Drive Pacific MO 63069 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 Treatment Facility Acceptance" Form 780-2584. ☑ YES ☐ NO ☐ N/A 5.0 ENGINEER ENGINEER NAME / COMPANY NAME TELEPHONE NUMBER WITH AREA CODE EMAIL ADDRESS Elliott R. Reed, P.E. / Cochran 636-584-0540 ereed@cochraneng.com CITY STATE ZIP CODE 530A East Independence Drive Union MO 63084 **6.0 RECEIVING WASTEWATER TREATMENT FACILITY** TELEPHONE NUMBER WITH AREA CODE Pacific Wastewater Treatment Plant EMAIL ADDRESS 314-486-1375 rb@pacificmissouri.com MISSOURI STATE OPERATING PERMIT # COLINTY REMAINING CAPACITY (GPD) MO-0041131 Franklin 0.7 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. V 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 Certificate of Convenience and Necessity has been received? 

Yes - Date: ☐ No √ N/A 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 Check Number 47692 ☐ JetPay Confirmation 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 Old Gray Summit LLC - Brian Jessup 12-12-TITLE OR CORPORATE POSITION TELEPHONE NUMBER WITH AREA CODE EMAIL ADDRESS 314-496-4313 bj@quadprop.com 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

MO 780-1632 (10-22)

-	SEWER EXTENS			
app		DESIGN CERTIFICATION: Answer all questions yes or N/A. Answer N/A only if the question is n of the proposed sewer extension.	s clearly	not
_	REGULATION		YES	N/A
1.	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?	<b>✓</b>	
2.	8.110(3)(B)	Are average design flows, peak hourly flows and I&I contributions for new systems calculated?		+=
3.	8.110(9)(B)	Is there a detailed plan showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities?		F
4.	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains and combined wastewater?		1
5.	8.120(3)(A)	Is the pipe installation, embedment and backfill designed to prevent damage to the pipe and its joints?		
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?	_	
7.	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	V	
8.	8.120(3)(B)	Is deflection testing specified to ensure no pine exceeds a deflection of 5% of the incid-	V	
9.	8.120(4)(A)	Are manholes located at the end of each line, at all changes in grade, size or alignment	V	
10.	8.120(4)(C)	and at all intersections?	V	
11.	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	
12.	200000	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
	8.120(4)(E)	Are the mannoles watertight, constructed and installed in accordance with the manufacturer's recommendations and procedures?	V	
13.	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?	<b>V</b>	
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?	<b>✓</b>	
15.	8.120(5)(B)	Are sewers and manholes located at least 50 feet horizontally from any existing or	Ø	H
10.0	PRESSURE SEW	ERS, 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 dlameter of 1.25"?	금	
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.		$\square$
22.	8.125(5)(D)1.B	Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?		<b>V</b>
23.	8.125(5)(D)3.	Is there at least 70 gallons of storage in the grinder pump unit?		
24.	8.125(5)(D)4.	Do grinder pump stations have shutoff valves, check valves and anti-sinhon valves (where		V
25.	8.125(5)(D)7.,	siphoning could occur) that are accessible from the ground surface?  Are units serviceable and replaceable under wet conditions without electrical hazard and is		<b>✓</b>
	8.130(3)(B)2.	Group D, Division 1 location)?		<b>√</b>
6.	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
7.	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?		<b>V</b>
8.	8.125(6)(F) 32 (10-22)	Are duplex pumps provided for the design flow of 1,500 gallons or greater?		<b>V</b>

11.0	PUMP STATION	CHECKLIST						
	REGULATION							
29.	8.125(7)(C)	Is the minimum	diameter sewer main	nine and conside line a	f STEG sewer at least 4"?	YES	N/A	
30.	8.130(2)(A) 8.140(2)(B)	Is the pump state	tion designed to withst	tand the 100-year floor	if STEG sewer at least 4"?	+	<b>√</b>	
31.	8.130(3)(A)	Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?						
32.	8.130(3)(B)	If the design flow is 1,500 gpd or more, are there at least 2 numps or pneumatic circums					<b>✓</b>	
33	8.130(3)(D)	provided:	provided?  Are valves located outside wet well unless integral to a pump or its housing?					
34.	8.130(3)(F) 8.140(8)(J)	Do wet and dry	wells have separate ve	entilation systems?	or its flousing :	┼∺		
35.	8.130(3)(G)			p stations comply with	9 1/0/7\/D\\2	┼╬	V	
36.	8.130(6)	Is an alarm syste	em provided with unin	terrupted power?	6.140(7)(D)?	<del>  </del>	V	
37.	8.130(7)(A)	Is there 2 hours	retention of the peak h	nourly flow for a design	flow > 100,000 gpd or 4 hrs	부	V	
38.	8.130(7)(B)	retention of the L	eak nounv now for a d	design flow < 100 000	and2		<b>✓</b>	
39.		and operating th	e pump station at its ra	ated capacity?	ency power capable of starting		V	
	8.130(8)(A)	Is the force main	velocity of ≥ 2 ft/s ma	intained?		П	V	
40.	8.130	necessary?	adures, maintenance s	schedules, special tools	ations provided that include s and spare parts that may be		V	
12.0 S	UCTION LIFT PU	MP AND SUBMER	RSIBLE PUMP STATI	ON CHECKLIST				
	REGULATION			ON CALCULATION		YES	ALVA	
41.	8.130(4)	Are the suction life	t pumps of the self pri	iming or vacuum primir	ng type?	IES	N/A	
42.	8.130(4)(A)	Is the combined t	otal of dynamic suction	on lift at the "nump off"	elevation and required net		<b>V</b>	
		positive suction h	ead at design operation.	ng conditions less than	or equal to 22 feet?		V	
43.	8.130(4)(B)	Are there dual va	cuum pumps capable	of removing air from the	ne suction lift pump?		<b>V</b>	
44.	8.130(5)(A)	Are submersible and disconnecting and	oumps readily remova y pipe in the wet well?	ble and replaceable wi	ithout personnel entering, or	$\overline{\Box}$	V	
13.0 SI	EWER EXTENSION	N CHECKLIST -	CERTIFICATION STA	ATEMENT				
This app	olication is for cons	struction of gravity	sewer only.		of Misson 12/12/2024 ELLIOTT R. REED NUMBER PE2006002845			
	Elliott R. Reed, P.I							
Address	: 530A East Inde	pendence Drive						
City: Un	ion		State: MO		ZIP Code: 63084			
Геlерhо		rea Code: 636-584	1-0540	Email: ereed@cochra	aneng.com			