# STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



## GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

The Missouri Department of N	Vatural Resources hereby issues a permit to:
Construction Permit ID: Title of Project: Owner: Address:	MOGC00755  Jaxson Estates Subdivision Plat 8  CIANA Realty III LLC  P.O. Box 440054  Brentwood, MO 63144
	eneral site work appropriate to the scope and purpose of the project and will include all the necessary plete and usable collection system. The construction of this project will be in the vicinity of the county ring Permit ID below:
County: St. Charles	Receiving Permit ID: MO0132373
for the construction of (describ	ped construction project):
	Extension-Construction of approximately 1142 lf of 8-inch PVC gravity sewer main and e 37 residential lots with a design average flow of 13700 gpd. The receiving sewer is 0 gpm.
existing system to be treated	Highway 61 and Dietrich in unincorporated St. Charles County and discharges to an at Jaxson Estates WWTF (MAWC), MO-0132373. Mr. Matt Jaspering, Project tance letter dated June 14, 2024.
RSMo, and regulation promule As the Department does not ex- permit does not include approve	facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, gated thereunder, or this permit may be revoked by the Department of Natural Resources (Department) tamine structural features of design or the efficiency of mechanical equipment, the issuance of this val of these features.  The construction of water pollution control components; it does not apply to other environmentally
July 22, 2024 Issue Date	John Hoke, Director Water Protection Program
July 21, 2026	

**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 DEPAR	RTMENT USE ONLY
APP NO.	CP NO.
FEE RECEIVED	CHECK NO.
\$300	27615
DATE RECEIVED	allau ba

					1124 712
NOTE ► PLEASE READ THE ACCOMPA					
1.0 APPLICATION INFORMATION (Note considered incomplete and returned.)	– If any of	the questions in this sec	ction are ans	wered NO, this app	lication may be
1.1 Is this a Federal/State funded project?	☐ YES	☑ N/A Funding A	gency:	F	Project #:
1.2 Has the Department of Natural Resource  ✓ YES Date of Approval: unknown	ces approv	red the proposed projec	t's engineeri	ng report*?	
1.3 Is a copy of the appropriate plans* and	specificati	ons* included with this a	application?	☑YES □NO	CEIVED
1.4 Is a summary of design* included with t	this applica	ation? 🛮 YES 🔲 N	10		
1.5 Is the appropriate fee or JetPay confirm See Section 7.0	nation inclu	ided with this application	n? ☑ YES	□ NO JUN	2 1 2024
* Must be affixed with a Missouri registered	profession	al engineer's seal, sign	ature and da	te. Water Prot	ection Program
2.0 PROJECT INFORMATION					
2.1 NAME OF PROJECT  Jaxson Estates Subdivision - Plat 8					
ADDRESS	CITY		STATE	ZIP CODE	COUNTY
Dietrich Rd at MO Rte. 61	Unincor	porated	MO	63348	St. Charles
2.2 Legal Description: 1/4, US	1/4, Surve		48N , R	1E	
2.3 Project Components (check all that app  ✓ Gravity sewers □ Pumping statio		orce mains	ative sewer s	nustam 🗆 Other	(Describe below.)
2.4 PROJECT DESCRIPTION	1115	orce mains Aitem	alive sewer s	system 🗀 Other	(Describe below.)
Installation of 1142 LF of 8" PVC gravity san St. Charles County, MO.	itary sewe	r main and 5 concrete n	iannoies to s	serve 37 residential	lots in unincorporated
2.5 DESIGN INFORMATION A. Population or number of lots to be served	•			D : 0 !!!	1.51
<ul><li>B. Estimated flow to be contributed by this e</li><li>C. Industrial Wastes: Type: N/A</li></ul>		Design Average Flow: Dw: <sub>0</sub> gpd	13700 gpa	Design Peak Hou	rly Flow: 2341 gph
21		•			
D. Receiving Sewer: Size: 8 inches	s Ca <sub>l</sub>	pacity:530 gpm			
3.0 PROJECT OWNER	717-1		11 - 11		
NAME CIANA Realty III, LLC		TELEPHONE NUMBER WITH A	AREA CODE	EMAIL ADDRESS	
	CITY	314-317-0203	CTATE	dbeldner13@aol	.0011
ADDRESS PO Box 440054	Brentwo	nd	MO	63144	
4.0 CONTINUING AUTHORITY: A continuir					operating the facility
or ensuring compliance with the permit required contractually hired by the permittee to sample operator or analytical laboratory. To access visit https://s1.sos.mo.gov/cmsimages/adrulit appears on the Missouri Secretary of State https://bsd.sos.mo.gov/BusinessEntity/BESe	irements. I le or opera the regular les/csr/curr e's (SoS's) earch.aspx	A continuing authority is te and maintain the systory requirement regarding rent/10csr/10c20-6.pdf. webpage: ?SearchType=0, unless	not, howeve tem for a def ing continuin A continuing	er, an entity or indiv fined time period, su g authority, 10 CSR authority's name m	idual that is uch as a certified 20-6.010(2), please ust be listed exactly as
government, or otherwise not required to reg	jister with	the SoS.  TELEPHONE NUMBER WITH A	REA CODE	EMAIL ADDRESS	
<sup>NAME</sup> Missouri American Water Company		314-996-2229	IKEA CODE	matt.jaspering@amwater.com	
ADDRESS	CITY		STATE	ZIP CODE	
727 Craig Rd	Creve Co	oeur	МО	63141	
4.1 A letter from the continuing authority or if different than the owner, is included with the				water Treatment Fa	
O 780-1632 (10-19)					Page 1 of 2

5.0 ENGINEER				
Jeff Simmons / Bax Engineering		636-928-55	JMBER WITH AREA CODE	jsimmons@baxengineering.com
ADDRESS 221 Point West Blvd			STATE MO	ZIP CODE 63301
6.0 RECEIVING WASTEWA	TER TREATMENT F	ACILITY		
NAME Jaxson Estates WWTF (MAV			JMBER WITH AREA CODE 29	EMAIL ADDRESS matt.jaspering@amwater.com
MISSOURI STATE OPERATING PERMIT MO-0132373	REMAINING CAI 105,648	PACITY (GPD)		
6.1 Has the receiving treatm	ent facility agreed to	accept the addition	nal wastewater flow?	☑ YES ☐ NO
	ng wastewater treatme N/A	ent facility, if different	ent than the continuin	g authority, is included with this application
7.0 Application Fee				
☑Check Number			☐JetPay Confirm	mation Number
submitted. Based on my inquathering the information, the	uiry of the person or p e information submitte	ersons who mana ed is, to the best of	ge the system, or thos f my knowledge and b	perly gather and evaluate the information se persons directly responsible for pelief, true, accurate, and complete. I am assibility of fine and imprisonment for
Daniel Beldner, Ciana Realty	III LLC			6-14-2024
TITLE OR COPORATE POSITION		I beatening to the control	IMBER WITH AREA CODE	EMAIL ADDRESS
Managing Member		314 517 026	00	dbeldner13@aol.com
Mail completed copy to:	WATER PROTE P.O. BOX 176	PARTMENT OF NA ECTION PROGRA TY, MO 65102-01		S
10 780-1632 (10-19)				Page 2 of 2

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#### SEWER EXTENSION DESIGN CERTIFICATION

Answer all questions yes, no, or N/A. Answer N/A only if the question is clearly not applicable to the design of the proposed sewer extension **OR** if a deviation was previously allowed by the Department in the approval of Standard specifications or Standard Detail Sheets.

9.0	SEWER EXTENS	SION CHECKLIST			
	REGULATION		YES	NO	N/A
1	8.110(9)(B)	Are detailed plans showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities provided?	<b>V</b>		
2	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?			$\overline{\mathbf{V}}$
3	8.110(3)(B)	Are average design flows, peak hourly flows, and I&I contributions for new systems calculated.	<b>V</b>		
4	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains, and combined wastewater?	V		
5	8.120(3)(C)	Is ASTM C969-17 leakage test specified to ensure water tight joint seals and appropriate exfiltration and infiltration rates?	<b>V</b>		
6	8.120(4)(A)	Are manholes located at all changes in grade, size or alignment, and all intersections?	<b>V</b>		
7	8.120(3)(A)1	Are all sewer pipes constructed with a slope to obtain mean velocities of not less than 2 feet per second?	<b>V</b>		
8	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	<b>✓</b>		
9	8.120(3)(A)	Is the pipe installation, embedment, and backfill designed to prevent damage to the pipe and its joints?	<b>V</b>		
10	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?	$\checkmark$		
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"?	<b>V</b>		
12	8.120(4)(C)	Where cleanouts are used at the end of a lateral instead of a manhole, are they a minimum diameter of 8 inches or larger and equal to the diameter for pipes < 8"?			<b>V</b>
13	8.120(4)(E)	Are the manholes specified to be watertight, constructed, installed in accordance with the manufacturer's recommendations and procedures?	<b>V</b>		
14	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?	$\checkmark$		
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?	V		
16	8.120(5)(A)	Is the sewer free from physical connections to a potable water supply system with no water pipes coming in contact with a sewer manhole?	<b>V</b>		

10.0	PRESSURE SE	WERS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST			
	REGULATION		YES	NO	N/A
17	8.125(5)(A)1.	Does the cleaning velocity of ≥ 2 ft/s happen at least once per day?			<b>V</b>
18	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?			<b>V</b>
19	8.125(5)B	Are appurtenances compatible with the piping system?			<b>V</b>
20	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25 in.?			<b>V</b>
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 pump station.			<b>V</b>
22	8.125(5)(D)1. B	Are multiple unit pump stations owned, operated, 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?			<b>V</b>
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?			<b>V</b>
25	8.125(5)(D)7 8.130(3)(B)2	Are units serviceable and replaceable under wet conditions without electrical hazard and electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?			<b>V</b>
26	8.125(5)(D)8 8.125(6)(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?			<b>V</b>
27	8.125(6)(D) 8.180(2)	Does each EDU have at least one septic tank with a minimum of 1,000 gallon capacity with 20% of tank volume dedicated to freeboard and ventilation?			<b>V</b>
28	8.125(6)(F)	Are pump vaults designed with duplex pumps for STEP sewer systems with design flow of 1,500 gallons per day or greater?			<b>V</b>
29	8.125(7)(A)	Is the minimum STEG sewerservice line at least 4" in diameter?		1	1
	8.125(7)(C)				<b>V</b>
					<b>V</b>
	8.125(7)(C)		YES	NO	N/A
<b>11.0</b>	8.125(7)(C) <b>PUMP STATION</b> REGULATION 8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?	YES	NO	MM
<b>11.0</b> 30 31	8.125(7)(C) <b>PUMP STATION</b> REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A)	Is the pump station designed to withstand the 100-year flood?  Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?	YES	NO	N/A
<b>11.0</b>	8.125(7)(C) <b>PUMP STATION</b> REGULATION 8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?  Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?  If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?	YES	NO	N/A
<b>11.0</b> 30 31	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B) 8.130(3)(D)	Is the pump station designed to withstand the 100-year flood?  Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?  If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?  Are valves located outside wet well unless integral to a pump or its housing?	YES	NO O	N/A
30 31 32	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B)	Is the pump station designed to withstand the 100-year flood?  Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?  If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?  Are valves located outside wet well unless integral to a pump or its housing?  Do wet and dry wells have separate ventilation systems?	YES	NO O	N/A  ✓
30 31 32 33	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A)  8.130(3)(B) 8.130(3)(D)  8.130(3)(F) 8.140(8)(J) 8.130(3)(G)	Is the pump station designed to withstand the 100-year flood?  Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?  If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?  Are valves located outside wet well unless integral to a pump or its housing?  Do wet and dry wells have separate ventilation systems?  Does all potable water brought to the pump station comply with 8.140 (7) D?	YES	NO O	N/A  ✓
30 31 32 33 34	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B) 8.130(3)(D) 8.130(3)(F) 8.140(8)(J)	Is the pump station designed to withstand the 100-year flood?  Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?  If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?  Are valves located outside wet well unless integral to a pump or its housing?  Do wet and dry wells have separate ventilation systems?  Does all potable water brought to the pump station comply with 8.140	YES	NO O	N/A  ✓  ✓  ✓  ✓
30 31 32 33 34 35	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A)  8.130(3)(B) 8.130(3)(D)  8.130(3)(F) 8.140(8)(J) 8.130(3)(G)	Is the pump station designed to withstand the 100-year flood?  Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?  If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?  Are valves located outside wet well unless integral to a pump or its housing?  Do wet and dry wells have separate ventilation systems?  Does all potable water brought to the pump station comply with 8.140 (7) D?  Is an alarm system provided with uninterrupted power?  Is there 2 hours retention of the peak hourly flow for a design flow > 100,000 gpd or 4 hrs retention of the peak hourly flow for a design flow < 100,000 gpd?	YES	NO O	N/A  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓  ✓
30 31 32 33 34 35 36	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A) 8.130(3)(B) 8.130(3)(D) 8.130(3)(F) 8.140(8)(J) 8.130(3)(G) 8.130(6)	Is the pump station designed to withstand the 100-year flood?  Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?  If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?  Are valves located outside wet well unless integral to a pump or its housing?  Do wet and dry wells have separate ventilation systems?  Does all potable water brought to the pump station comply with 8.140 (7) D?  Is an alarm system provided with uninterrupted power?  Is there 2 hours retention of the peak hourly flow for a design flow > 100,000 gpd or 4 hrs retention of the peak hourly flow for a design flow	YES  O O O O O O O O O O O O O O O O O O	NO O	N/A
30 31 32 33 34 35 36 37	8.125(7)(C) PUMP STATION REGULATION 8.130(2)(A) 8.140(2)(B) 8.130(3)(A)  8.130(3)(B) 8.130(3)(D)  8.130(3)(F) 8.140(8)(J) 8.130(3)(G)  8.130(6) 8.130(7)(A)	Is the pump station designed to withstand the 100-year flood?  Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?  If the design flow is 1,500 gpd or more, are at least 2 pumps or pneumatic ejectors provided?  Are valves located outside wet well unless integral to a pump or its housing?  Do wet and dry wells have separate ventilation systems?  Does all potable water brought to the pump station comply with 8.140 (7) D?  Is an alarm system provided with uninterrupted power?  Is there 2 hours retention of the peak hourly flow for a design flow > 100,000 gpd or 4 hrs retention of the peak hourly flow for a design flow < 100,000 gpd?  Is there an independent utility substation provided for emergency power that is capable of starting and operating the pump station at its rated	YES	NO O	N/A  V  V  V  V  V

12.0	SUCTION LIFT	PUMP AND SUBMERSIE	BLE PUMP STATION	N CHECKLIS					
	REGULATION					YES	NO	N/A	
41	8.130(4)	Are the suction lift pump	s of the self priming	or vacuum pr	ming type?			<b>√</b>	
42	8.130(4)(A)	Is the combined total of and required net positive less than or equal to twe	e suction head at des					7	
43	8.130(4)(B)	Are there dual vacuum plift pump?			<b>V</b>				
44	8.130(5)(A)	Are submersible pumps readily removable and replaceable without personel entering, or disconnecting any pipe in the wet well?						<b>V</b>	
13.0	CERTIFICATION	N STATEMENT							
	I hereby certify that the design plans and specifications for this project, to the best of my knowledge, conform to the requirements listed above. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.  I hereby certify that this plan, specification, and/or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Missouri.								
			MINIMUM .						
Misso	ouri Professional	Engineer's Seal:	JEFFREY B. SIMMONS  MMBER PE-2007030831	The state of the s					
Stree City:	<sup>3:</sup> Jeff Simmons, Ba t Address: 221 Po St. Charles	oint West Blvd	tate: MO	ZIP Code:	63301				
Phon	e Number: 636-92	8-5552	Email: jsimmons@t	paxengineering	com				