# STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



### GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

| The Missouri Department of   | Natural Resources hereby issues a permit to:   |
|--|--|
| Construction Permit ID:<br>Title of Project:<br>Owner:<br>Address:                       | MOGC00786 Stone Crossing Plat 7 Subdivision Cannon Builders P.O. Box 266 Troy, MO 63379  |
|  | general site work appropriate to the scope and purpose of the project and will include all the necessary aplete and usable collection system. The construction of this project will be in the vicinity of the county iving Permit ID below:  |
| County: Lincoln  | Receiving Permit ID: MO0131296   |
| for the construction of (descr   | ribed construction project):   |
|  | division. Construction of approximately 7325 lf of 8 inch PVC SDR35 gravity sewer lines w manholes to serve a 400 PE and a design average flow of 40,000 gpd.  |
| existing system to be treate   | FArundel Dr and Creekwood Blvd in Troy, Lincoln County, and discharges to an ed at the Troy Southeast WWTF, MO0131296. Mayor Ron Sconce with the City of ace letter dated September 17, 2024.  |
| RSMo, and regulation promu<br>As the Department does not opermit does not include appro- | ed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, algated 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 oval of these features.  The construction of water pollution control components; it does not apply to other environmentally |
| September 26, 2024 Issue Date  | John Hoke, Director<br>Water Protection Program  |
| September 25, 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 DEPARTMENT USE ONLY |           |  |  |  |
|-------------------------|-----------|--|--|--|
| APP NO.                 | CP NO.    |  |  |  |
| FEE RECEIVED            | CHECK NO. |  |  |  |
| DATE RECEIVED           | 25699     |  |  |  |

| <b>6</b>  |              |               |   |               | DATE RECEIVED 8           | 127/2413             |  |
|---|--------------|---------------|---|---------------|---------------------------|----------------------|--|
| NOTE ► Please Read the accompanying   |              |               |   |               |                           |                      |  |
| 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 F       | unding Age                              | ency:         | Pro                       | oject #:             |  |
| 1.2 Has the Department of Natural Resource  Type YES Date of Appr   | oval:        |               |   | □ NO          | g report*?                | ☑ N/A                |  |
| 1.3 Is a copy of the appropriate plans* and s   | pecification | ons* included | with this ap                            | plication?    | YES NO                    |                      |  |
| If the project is using standard specificat   | ions, nam    | ne of commun  | ty:                                     |               |                           |                      |  |
| 1.4 Is a summary of design* included with the   | is applica   | ition? 🛮 🗸 Y  | ES N                                    | )             |                           |                      |  |
| 1.5 Is the appropriate fee or JetPay confirmation See Section 7.0   | ation inclu  | ded with this | application                             | YES           | □ NO                      |                      |  |
| * Must be affixed with a Missouri registered p  | rofession    | al engineer's | seal, signa                             | ture and date | )                         |                      |  |
| 2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT   |              |               |   |               |                           |                      |  |
| Stone Crossing Plat 7 Subdivision   |              |               |   |               |                           |                      |  |
| ADDRESS   | CITY         |               |   | STATE         | ZIP CODE                  | COUNTY               |  |
| Elm Tree Road   | Тгоу         |               |   | МО            | 63379                     | Lincoln              |  |
| 2.2 Legal Description: 1/4,   | /4,          | 1/4, Sec.     | 1                                       | T 48N ,       | R 1W                      |                      |  |
| 2.3 Project Components (check all that apply ☐ Gravity sewers ☐ Pumping station   | ·            | orce mains    | ☐ Altema                                | tive sewer sy | stem                      | Describe below.)     |  |
| 2.4 PROJECT DESCRIPTION   |              |               |   |               |                           |                      |  |
| Proposed 109 lot subdivision located north of<br>Project includes approx. 7,325 feet of gravity   |              |               |   |               |                           |                      |  |
| needed. Single family home lots are all great   |              |               | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |               | oldinorio, ordaniodio,    | or grindor pampo aro |  |
|   |              |               |   |               |                           |                      |  |
|   |              |               |   |               |                           |                      |  |
|   |              |               |   |               |                           |                      |  |
|   |              |               |   |               |                           |                      |  |
| 2.5 DESIGN INFORMATION  |              |               |   |               |                           |                      |  |
| A. Population or number of lots to be served  | by this ex   | xtension: 109 |   |               |                           |                      |  |
| B. Estimated flow to be contributed by this e   | xtension:    | Design Aver   | age Flow: 4                             | 40k gpd       | Design Peak Hour          | ly Flow: 5,713 gph   |  |
| C. Industrial Wastes: Type: N/A   | Flo          | ow: gp        | d                                       |               |                           |                      |  |
| D. Receiving Sewer: Size: 8 inches  | Ca           | pacity: >200  | gpm                                     |               |                           |                      |  |
| E. Does this project (check all that apply):  |              |               |   |               |                           |                      |  |
| ☑ Connect to an existing treatment plant ☐ Resolve enforcement issue ☐ Eliminate or consolidate an existing treatment plant                               |              |               |   |               |                           |                      |  |
| F. Estimated number of onsite systems being removed: 0  |              |               |   |               |                           |                      |  |
| G: Estimated costs associated with piping: \$   | 200k         | Estima        | ted costs a                             | ssociated wit | th lift station(s): \$ N  | /A                   |  |
| 3.0 PROJECT OWNER   |              |               |   |               |                           |                      |  |
| NAME<br>CANNON BUILDERS   |              | 636-462-540   |   | REA CODE      | EMAIL ADDRESS MOCANNON@CA | ANNONCOMPANIES.      |  |
| ADDRESS<br>P.O. BOX 266   | TROY         | -11           |   | STATE<br>MO   | ZIP CODE<br>63379         |                      |  |
| CHARTER NUMBER (SECRETARY OF STATE) or REGISTERED   |              |               |   |               |                           |                      |  |
| MONTE CANNON  |              |               |   |               |                           |                      |  |

MO 780-1632 (10-22)

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Water Protection Program

| 4.0 CONTINUING AUTHORITY: A continuing for ensuring compliance with the permit required continuing authority should be a relatively pewhen needed, of the permitted facility or activitized by the permittee to sample or operate analytical laboratory. To access the regulator Water Commission Chapter 6. A continuing a (SoS's) webpage: Missouri Secretary of State required to register with the SoS.  | rements a<br>manent e<br>ity. A con<br>nd mainta<br>y requiren<br>uthority's | and provide<br>entity respo-<br>tinuing auth<br>in the systenent regard<br>name must | continuous<br>nsible for the<br>nority is not<br>em for a de<br>ling continu<br>t be listed e | s stable oversigne ongoing ope, however, and fined time perioding authority, 1 exactly as it app | ht of the permitted facility or activity. The ration, maintenance and modernization, entity or individual that is contractually od, such as a certified operator or 0 CSR 20-6.010(2), please visit <u>Clean</u> pears on the Missouri Secretary of State's |
|--|--|--|---|--|---|
| NAME   |  | TELEPHONE  | NUMBER WITH   | AREA CODE  | EMAIL ADDRESS   |
| N/A  |  |  |   |  |   |
| ADDRESS  | CITY   |  |   | STATE  | ZIP CODE  |
|  |  |  |   |  |   |
| CHARTER NUMBER (SECRETARY OF STATE)  |  |  |   |  |   |
| 4.1 Has appropriate continuing authority acceded letter from the continuing authority accepting different than the original owner of the construction of the construct | g respons<br>uction), or   | sibility for co<br>a properly  | ontinued m<br>executed "  | aintenance of the Continuing Aut   | ne sewer (if the continuing authority is hority and Receiving Wastewater  |
| 5.0 ENGINEER   |  |  |   |  |   |
| ENGINEER NAME / COMPANY NAME Fitch & Associates  |  | 636-528-6  | NUMBER WITH   | AREA CODE  | EMAIL ADDRESS fitchandassociates@hotmail.com  |
| ADDRESS  | CITY   | 000-020-0  | 7100  | STATE  | ZIP CODE  |
| 360 East Cherry St   | Troy   |  |   | MO   | 63379   |
| 6.0 RECEIVING WASTEWATER TREATME   | NT FACIL   |  |   |  |   |
| NAME<br>CITY OF TROY, MO   |  | 136-5  | NUMBER WITH   | AREA CODE  | SLOMEROWOODARD CURRAN. COM  |
| MISSOURI STATE OPERATING PERMIT #  |  | COUNTY   |   |  | REMAINING CAPACITY (GPD)  |
| MO-0131296   |  | LINCOLN  |   |  | FMGD  |
| 6.1 If different from the owner, has a letter be accept the expanded flow or has a properly e MO 780-2584 form been provided? YES 6.2 A letter from the receiving wastewater treating.   | xecuted C  | Continuing /   | Authority ar  | nd Receiving W   | astewater Treatment Facility Acceptance   |
| YES NO N/A  6.3 If the receiving treatment plant or continui   | no author  | ity ie maula   | tad by the  | Dublic Senice  | Commission (DSC) for source activities a  |
| Certificate of Convenience and Necessity has   | been rec   | eived?   | Yes – Da  |  | No NA   |
| OPTIONAL QUESTIONS REGARDING MILI  | TARY SE  | RVICE  |   |  |   |
| Have you or an immediate family member evol. S. Armed Forces?  | er served  | in the   |   | Yes  | ☑ No  |
| If yes, would you like information about militar in Missouri?  | ry-related   | services   |   | Yes  | ☑ No  |
| 7.0 Application Fee  |  |  |   |  |   |
| Check Number   |  |  | ☐ JetPa   | y Confirmation   | Number  |
| 8.0 PROJECT OWNER: I certify under penalsupervision in accordance with a system desi submitted. Based on my inquiry of the person gathering the information, the information subaware there are significant penalties for submiviolations.   | gned to as<br>or persor<br>mitted is,  | ssure qualif<br>is who man<br>to the best  | ied person<br>age the sy<br>of my knov  | nel properly ga<br>stem, or those<br>vledge and beli   | ther and evaluate the information<br>persons directly responsible for<br>ef, true, accurate and complete. I am  |
| PROJECT CONTROL SIGNATOR   |  |  |   |  |   |
| PRINTED NAME STEVE SARNET  | ella.  | ancorb   | 204   |  | 8-26-2024   |
| TITLE OR CORPORATE POSITION  |  | TELEPHONE  | NUMBER WITH   |  | EMAIL ADDRESS   |
| MANAGER  |  | 636  | 762   | 8277   |   |
| Mail completed copy to:  |  |  |   | Submit co  | mpleted electronic copy to:   |
| MISSOURI DEPARTMENT OF NATURAL<br>WATER PROTECTION PROG<br>PO BOX 176<br>JEFFERSON CITY, MO 65102  | RCES   | Missouri Department of Natural Resources at DNR.WPPEngineerSection@dnr.mo.gov        |   |  |   |

MO 780-1632 (10-22)

| SEW   | ER EXTENSION D                  | ESIGN CERTIFICATION: Answer all questions yes or N/A. Answer N/A only if the question is   | clearly        | not |
|-------|---------------------------------|--|----------------|-----|
| appli | REGULATION                      | of the proposed sewer extension.   | 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?   | V              |     |
| 8.    | 8.120(3)(B)                     | Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?   | $\overline{Z}$ |     |
| 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"?  | Ø              |     |
| 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 manufacturer's recommendations and procedures?   | Z              |     |
| 13.   | 8.120(4)(F)                     | Do the specifications include a requirement for inspection and testing for manholes?   | V              |     |
| 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?  | Ø              |     |
| 10.0  | PRESSURE 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?  |                | V   |
| 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.,<br>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.,<br>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?   |                | V   |

| 11.0     | PUMP STATION C             | HECKLIST   |  |                            |  |     |     |  |
|----------|----------------------------|--|--|----------------------------|--|-----|-----|--|
|          | 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)<br>8.140(2)(B) | Is the pump station  | n designed to withstand  | the 100-year flood?        |  |     | V   |  |
| 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? |  |                            |  |     | V   |  |
| 32.      | 8.130(3)(B)                | If the design flow is 1,500 gpd or more, are there at least 2 pumps or pneumatic ejectors provided?                |  |                            |  |     | V   |  |
| 33       | 8.130(3)(D)                | Are valves located   | l outside wet well unles   | s integral to a pump or    | its housing?   |     |     |  |
| 34.      | 8.130(3)(F)<br>8.140(8)(J) | Do wet and dry we  | ells have separate vent  | ilation systems?           |  |     | V   |  |
| 35.      | 8.130(3)(G)                | Does all potable w   | ater brought to pump s   | tations comply with 8.     | 140(7)(D)?   |     | V   |  |
| 36.      | 8.130(6)                   | Is an alarm systen   | n provided with uninten  | rupted power?              |  |     | V   |  |
| 37.      | 8.130(7)(A)                | Is there 2 hours re  | tention of the peak hou<br>ak hourly flow for a dea  | irly flow for a design flo | ow > 100,000 gpd or 4 hrs<br>d?                          |     |     |  |
| 38.      | 8.130(7)(B)                | Are there indepen  | dent utility substations<br>pump station at its rate   | provided for emergence     | y power capable of starting                              |     | V   |  |
| 39.      | 8.130(8)(A)                | Is the force main v  | elocity of ≥ 2 ft/s maint  | ained?                     |  |     | V   |  |
| 40.      | 8.130                      | emergency proced necessary?  | dures, maintenance sci   | nedules, special tools a   | ons provided that include<br>and spare parts that may be |     | V   |  |
| 12.0     | SUCTION LIFT PU            | MP AND SUBMER  | SIBLE PUMP STATIO  | N CHECKLIST                |  |     |     |  |
|          | REGULATION                 |  |  |                            |  | YES | N/A |  |
| 41.      | 8.130(4)                   |  | pumps of the self prim   |                            |  | Ш   | V   |  |
| 42.      | 8.130(4)(A)                | Is the combined to<br>positive suction he  | 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? |                            |  |     |     |  |
| 43.      | 8.130(4)(B)                | Are there dual vac   | cuum pumps capable o   | f removing air from the    | suction lift pump?                                       |     | V   |  |
| 44.      | 8.130(5)(A)                | Are submersible p  |  |                            | out personnel entering, or                               |     | V   |  |
| 13.0     | SEWER EXTENSI              |  | CERTIFICATION STAT   | TEMENT                     |  |     |     |  |
| Misso    | our Professional           | ronner's sen signa   | ature and date:  |                            |  |     |     |  |
| Nam      | e: Todd Criswell           | g & ú <sup>u</sup>   |  |                            |  |     |     |  |
| Addr     | ess: 360 East Che          | erry St  |  |                            |  |     |     |  |
| City:    | Troy                       |  | State: MO  |                            | ZIP Code: 63379  |     |     |  |
| Telep    | phone Number with          | Area Code: 636-52  | 8-6180   | Email:fitchandassocia      | ates@hotmail.com   |     |     |  |
| AO 780-1 | 632 (10-22)                |  |  |                            |  |     |     |  |