



CITY OF WENTZVILLE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
200 E. FOURTH STREET  
WENTZVILLE, MO 63385

February 5, 2016

Ms. Cailie Carlile  
Missouri Department of Natural Resources  
P.O. Box 176  
Jefferson City, MO 65102

**RECEIVED**  
**FEB 11 2016**  
Water Protection Program

RE: City of Wentzville, MO – Sanitary Sewer Specifications and Details  
The Cedars – Construction Permit

Ms. Carlile,

Please find attached, two (2) copies of the City of Wentzville's current Construction Specifications and Standard Details for Sanitary Sewers. This letter is in response to your letter dated October 28, 2015, copy attached, and which was addressed to Mr. Doug Post, and to Mr. Byron F. Shaw, Jr.'s letter of June 18, 2014, copy attached, and which was addressed to Mr. Scott Hitchcock, City Engineer. Please be advised that Mr. Hitchcock is no longer with the City, and his responsibilities have been taken over by Ms. Susan Spiegel, P.E., Public Works Director.

In Response to the review letter dated June 18, 2014, we offer the following:

1. COMMENT: Provide steep slope protection in accordance with 10 CSR 20-8.120(5)(D)6.  
RESPONSE: Steep Slope protection in accordance with 10 CSR 20-8.120(5)(D)6 is currently provided for in the City of Wentzville Standard Construction Detail (SCD) 300.04 which includes anchor spacing requirements based on slope. These meet or exceed the requirements of MoDNR. Additionally a new SPECS Section 308.8 Steep Slope & High Velocities has been added which references the SCD 300.04.
2. COMMENT: "Sewers twenty-four inches (24") or less shall be laid with straight alignment between manholes. Straight alignment shall be checked by either using a laser beam or lamping", per 10 CSR 20-8.120(5)(E)1. Include this requirement for straight alignment.

RESPONSE: This comment was addressed by adding a sentence to City of Wentzville Standard Sewer Specifications (SPECS) Section 303.5.

3. COMMENT: Incorporate curvilinear alignment of sewers consistent with 10 CSR 20-8.120(5)(E)2.

RESPONSE: This comment was addressed by adding two additional sentences to SPECS Section 303.5.

4. COMMENT: "Ledge rock, boulders, and large stones shall be removed to provide a minimum clearance of four inches (4") below and on each side of all pipe(s)", per 10 CSR 20-8.120(5)(H)2.C.

RESPONSE: The removal of rock, boulders and large stone as well as unsuitable material, and the provision of a minimum of four inches of clearance below and on all sides of all pipe is already covered by SPECS Section 303.7 and SCD 300.01.

5. COMMENT: Address the bedding, haunching, and initial backfill of plastic pipe and composite pipe according to 10 CSR 20-8.120(5)(H)3.C and 10 CSR 20-8-120(5)(H)3.D respectfully.

RESPONSE: The bedding, haunching and initial backfill of plastic pipe is already covered by SPECS Section 303.7 which meet or exceed 10 CSR 20-8.120(5)(H)3.C and CSR 20-8.120(5)(H)3.D.

6. COMMENT: "No pipe shall extend a deflection of 5 percent (5%). If the deflection exceeds five percent (5%), the pipe shall be excavated", per 10 CSR 20-8.120(5)(H)5.B. Include these requirements in the deflection testing specifications.

RESPONSE: This requirement is currently covered under SPECS Section 303.17 which states "All defects shall be repaired to the satisfaction of the City Engineer" and later in SPECS Section 303.17a which states "No pipe shall exceed a deflection of five percent (5%)".

7. COMMENT: Update the deflection test requirements to specify that the mandrel must have nine (9) or more odd number of flutes or pointes in accordance with 10 CSR 20-8.120(5)(H)5.C

RESPONSE: This comment is being addressed by adding a new sentence to SPECS Section 303.17a.

8. COMMENT: Incorporate the bench requirements of manholes according to 10 CSR 20-8.120(6)(E).  
RESPONSE: This comment was addressed by adding a new sentence to SPECS Section 302.6.
9. COMMENT: Provide corrosion protection for manholes consistent with 10 CSR 20-8.120(6)(H).  
RESPONSE: This comment is covered by SCD 304.01 which states that receiving manholes for force mains and the next two downstream manholes shall be epoxy coated to protect against corrosion. Additionally the SPECS Section 302.7 has been revised to include Corrosion Protection of any structure which may be subject to corrosion.
10. COMMENT: ON Page 300-7 and Detail 302.03 of the provided specifications, states an inaccurate citation of waterproofing manholes "10CSR30-8.120(7)(E)". The regulations were updated on February 29, 2012 and some of the citations have changed. 10CSR 20-8.120(6)(F)1 states, "[m]anholes shall be watertight." Update this citation.  
RESPONSE: We have removed the specific CSR Citation from SPECS Section 302.7, however we are still requiring that all manholes receive a waterproof coating on their exterior surfaces. We have also added two sentences in SPECS Section 302.1 indicating that all manholes be constructed water tight and that all possible points of infiltration be sealed. This comment has been addressed by updating the reference in City of Wentzville Standard Sewer Specifications 302.7 and City of Wentzville Standard Construction Detail 302.03.
11. COMMENT: Per 10 CSR 20-8.120(8)(A)3, manholes shall be located so they do not interfere with the free discharge of flood flows of a stream. Specify this requirement with stream crossings.  
RESPONSE: This comment was addressed by adding a new sentence to SPECS Section 303.12.
12. COMMENT: Address the siltation and erosion with stream crossings according to 10 CSR 20-8.120(8)(B)2  
RESPONSE: This comment was addressed by adding a new Paragraph to SPECS Section 303.12.

13. COMMENT: "If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to one hundred fifty pounds per square inch (150 psi) (1,034 Kpa) to assure water tightness", per 10 CSR-8.120(10)(C)1.B. Incorporate this requirement for the protection of water supplies.

RESPONSE: This comment was addressed by adding a new Section 303.14 Protection of Water Supplies, to the Specs. Additionally the first sentence of SPECS Section 301.2a was revised to require the use of AWWA C900 PVC pipe in locations required under SPECS Section 303.14.

Further in response to the Recommendations contained in this same letter:

1. COMMENT: Recommend the addition of high velocity protection of pipes in accordance with 10 CSR-8.120(5)(D)5.

RESPONSE: This has been provided for in a new SPECS section 308.8 Steep Slope & High Velocities, which calls for the use of collars/anchors as shown in SCD 300.04.

2. COMMENT: "The bottom of the pipe should be placed no lower than the elevation of the fifty (50)-year flood", per 10 CSR 20-8.120(9)(C). Detail 303.04 states "bottom of casing pipe to be a minimum of 1' above the 25 year flood elevation." Consider revising this detail note.

RESPONSE: Note has been changed to indicate that the casing shall be a minimum of 1' above the 100 year flood elevation.

3. COMMENT: "Manholes should be located at least ten feet (10')(3.0 m) horizontally from any existing or proposed water main", per 10 CSR 20-8.120(10)(C)1.C. This is a recommended addition to protect drinking water supplies.

RESPONSE: A paragraph has been added to SPECS Section 303.14, indicating that manholes are to be located a minimum of 10 feet from any water main, and if this is not possible the water main would need to be relocated to meet this minimum separation.

4. COMMENT: Details can clearly demonstrate what the expectation is in certain instances often better than words. The following details are suggested addition:

- a. Shallow manhole; and
- b. Thrust blocks.

RESPONSE:

- a. A new detail 302.6B has been added, re-numbering 302.06 to 302.06 A "Adjust to Grade". This new detail provides for an alternative PreCast short top, for locations where the bury depth is such that a standard top cone is too tall.
- b. A detail for a thrust block is not being provided since all new water mains and sewer force mains are called for to be Heat Fusion Welded HDPE pipe. As such there are no fittings which would pull apart or would otherwise require blocking. The only connections to be made to the pipe are with the use of MJ-Restrained Joint connections to MJ valves. As such the valves are strained to the pipe thereto connected.

In response to your letter dated October 28, 2015, sent to Doug Post, with a copy to Musler Engineering and the City of Wentzville, and specifically with respect to the City of Wentzville Standard Specifications and Construction Details we offer the following:

1. COMMENT: As per 10CSR 20-9.120(5)(H)2.C., "Ledge rock, boulders, and large stones shall be removed to provide a minimum clearance of 4-inches (10 cm) below and on each side of all pipe(s). "Please update the plans and/or specifications to verify that this requirement will be met.  
RESPONSE: The removal of rock, boulders and large stone as well as unsuitable material, and the provision of a minimum of four inches of clearance below and on all sides of all pipe is already covered by SPECS Section 303.7 and SCD 300.01.
2. COMMENT: Verify that the bedding, haunching and initial backfill of pipe shall be in accordance with 10CSR 20-8.120(5)(H)3., and that final backfill will meet the requirement at 10CSR 20-8.120(5)(H)4.A. that debris, frozen material, large clods, stones, organic matter, or other unstable materials shall not be used for final backfill within 2 feet of the top of the pipe.  
RESPONSE: This comment is covered by SPECS Division 200 Earthwork and Trenching, Section 217.12, which is attached.
3. COMMENT: Update the deflection test requirements to specify that the mandrel used for deflection testing must have nine or more odd number of flutes or points in accordance with 10CSR 20-8.120(5)(H)5.C.

RESPONSE: This comment is being addressed by adding a new sentence to SPECS Section 303.17a.

4. COMMENT: Update the plans and/or specifications to ensure that the pressure testing required by 10CSR 20-8.120(10)(C)1.B, shall be met when it is impossible to obtain proper horizontal and vertical separation for sewers: "the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150-pounds per square inch (psi)(1,034kPa) to assure watertightness."

RESPONSE: This comment was addressed by adding a new Section 303.14 Protection of Water Supplies, to the SPECS. Additionally the first sentence of SPECS Section 301.2a was revised to require the use of AWWA C900 PVC pipe in locations required under SPECS Section 303.14.

5. COMMENT: The most recent standard specifications and drawings available online for the city of Wentzville include a section for sanitary sewage pump stations. It is not clear from this specification which items may or may not apply to a grinder pump station. Please submit a specification section specific to grinder pumps to clarify which items would apply. In particular, please specify the requirements for telemetry, alarm systems, electrical requirements, control panels, standby units, and emergency operation.

RESPONSE: The SPECS Section 400 only applies to City Owned Public Sanitary Sewage Pump Stations. The grinder pumps for the plans submitted by Musler Engineer are private and will require a separate set of specifications, which would be provided by Musler. We are attaching our Engineering Design Criteria Division 300 -Sanitary Sewers and Division 400 - Sanitary Sewer Pump Stations, as well as Division 400 Sanitary Sewage Pump Stations from our Standard Specification and Standard Details, which includes Standard Details 400.01, 400.02, 400.03 and 400.04. The only requirement which we would have, and which are covered in our Specifications is the use of HDPE force main. The discharge from a private grinder pump station would become a public force main once it crosses onto the public right-of-way, and therefor it would need to comply with our requirements. While our standard design for a public lift station would be impractical for a single residential lot, we anticipate where it is impractical to install a gravity system, that a private lift station would be needed. The Engineer of record would need to provide us information as to the specific pump to be used in the private lift

station and design/sizing of the force main, as required by our Design Criteria. This would include all necessary hydraulic calculations which should show that a minimum velocity of 2fps would be maintained in all flow conditions. While our Public Lift Station Design requires the installation of a telemetry system, with local and remote alarms, electrical requirements, control panels, and provisions for detention storage and/or backup generators for emergencies, the City does not have similar requirements for private lift stations. Normally the private lift station has an alarm to indicate a high water level in the station, and for electrical faults, but these are only available to the homeowner/property owner. Any purchaser of the property would need to be advised at the time of purchase that the house was served by a private lift station.

Further in response to the questions and comments addressed to Mr. Post, and his Engineer, Rich Musler, we would like to offer the following:

1. COMMENT: The submitted plans reference the City of Wentzville Standard Specifications and Construction Details, which have not yet been approved by the WPP. Therefore, we will require one hard copy of specifications that have been signed and sealed by a professional engineer for our review. One electronic copy would be appreciated to aid in our review. The submitted specifications may be signed and sealed copy of the City of Wentzville Standard Specifications and Construction Details, or a variation thereof; however please note the preliminary comments below.

RESPONSE: We are sending you multiple sealed copies of our Standard Specifications and Construction Details, and have included our Engineering Design Criteria which we use as the basis of the design of our sanitary sewer collection system and pump stations. I will be sending you an electronic copy of same in PDF format.

2. COMMENT: The approval letter from the city of Wentzville notes that the proposed project has an estimated daily flow of 5,180 gpd, while the construction permit application states that the design average flow is 6,750 gpd. Please clarify what the proposed design flow is, what the basis for the flow is, and provide an updated approval letter from the city with the corrected flow amount, if necessary.

RESPONSE: Projected flows from this development are calculated at 5,550 gpd (15 lots x 370 gpd/household) Our current Waste Treatment Plant, which is rated at 6.4 MGD, has operated over the previous 12

month period at an average daily flow of 4.4 MGD. Therefore plant capacity is currently available for this projected flow of 0.006 MGD.

3. COMMENT: The submittal does not include all technical and design information used to design the collection system and pump stations as required at 10 CSR 20-8.110(4)(B)6., including the basis for design flow, grinder pump calculations (energy requirements, required head and flow, pump curves, friction losses, etc.), and resulting velocities in sewers. This information is also required to be submitted by 10 CSR 20-8.110(4)(B)2., 10 CSR 20-8.110(5)(E), and 10 CSR 20-8.120(4)(A)2.

RESPONSE: Our design criteria for private sanitary sewage grinder pump systems shall generally require following our design criteria for sizing of force mains, and the use of our standard HDPE pipe material. The force main, will generally become a public force main, after leaving each individual lot, and we will require that the minimum velocities be maintained under all combinations of pump operation. i.e. With any one individual pump running or with all pumps operating at the same time. The design for each grinder pump station is the responsibility of the Engineer of Record for each subdivision. Musler Engineering should be providing this information to you for review.

4. COMMENT: Missouri's GeoSTRAT mapping website (<http://dnr.mo.gov/geostrat/>) indicates a domestic water well at 1320 Wilmer Road. As per 10 CSR 20-8.120(10)(B)2., all existing water works units, such as basins, wells, or other treatment units, within 200-feet of the proposed sewer shall be shown on the engineering plans. Please indicate the location of this well on a map of the site.:

RESPONSE: This information will be provided by Musler Engineering.

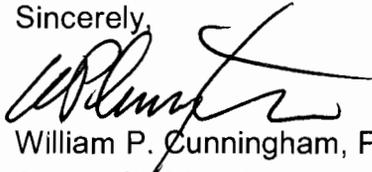
5. COMMENT: Include a detail drawing for the grinder pump unit wet well and specify the size of the wet well.

RESPONSE: Detail drawing for grinder pump to be provided by Musler Engineering.

Mr. Shaw is also receiving two duplicate copies of our Standard Specifications and Construction Details for his use.

Should you have any questions, please contact me at 636-639-2051 or [william.cunningham@wentzvillemo.org](mailto:william.cunningham@wentzvillemo.org).

Sincerely,

A handwritten signature in black ink, appearing to read 'W. Cunningham', written over the word 'Sincerely,'.

William P. Cunningham, P.E.  
Senior Civil Engineer

cc: File

Mr. Byron F. Shaw, Jr., P.E.,  
SRF Engineering Unit Chief  
Financial Assistance Center  
Missouri Department of Natural Resources  
P.O. Box 176  
Jefferson City, MO 65102

Attachments:



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

## DEPARTMENT OF NATURAL RESOURCES

[www.dnr.mo.gov](http://www.dnr.mo.gov)

CERTIFIED MAIL: 7009 2250 0000 0886 5783  
RETURN RECEIPT REQUESTED

June 18, 2014

Mr. Scott Hitchcock, P.E., City Engineer  
City of Wentzville  
200 Fourth Street  
Wentzville, MO 63385

RE: City of Wentzville, MO – Construction Specifications and Standard Details Sanitary Sewers, Standard Sewer Specifications and Details Comments

Dear Mr. Hitchcock:

The Missouri Department of Natural Resources' Water Protection Program has finalized the review of the Construction Specifications and Standard Details Sanitary Sewers amended on March 16, 2010. We expect a response to the following requirements and recommendations below within 30 days receipt of this letter:

### **REQUIREMENTS:**

The following items are required to be in compliance with 10 CSR 20-8. The Construction Specifications and Standard Details Sanitary Sewers must be updated to incorporate the following requirements.

1. Provide steep slope protection in accordance with 10 CSR 20-8.120(5)(D)6.
2. "Sewers twenty-four inches (24") (61 cm) or less shall be laid with straight alignment between manholes. Straight alignment shall be checked by either using a laser beam or lamping", per 10 CSR 20-8.120(5)(E)1. Include this requirement for straight alignment.
3. Incorporate curvilinear alignment of sewers consistent with 10 CSR 20-8.120(5)(E)2.
4. "Ledge rock, boulders, and large stones shall be removed to provide a minimum clearance of four inches (4") (10 cm) below and on each side of all pipe(s)", per 10 CSR 20-8.120(5)(H)2.C.

5. Address the bedding, haunching, and initial backfill of plastic pipe and composite pipe according to 10 CSR 20-8.120(5)(H)3.C and 10 CSR 20-8.120(5)(H)3.D respectively.
6. "No pipe shall extend a deflection of five percent (5%). If the deflection exceeds five percent (5%), the pipe shall be excavated", per 10 CSR 20-8.120(5)(H)5.B. Include these requirements in the deflection testing specifications.
7. Update the deflection test requirements to specify that the mandrel must have nine (9) or more odd number of flutes or points in accordance with 10 CSR 20-8.120(5)(H)5.C.
8. Incorporate the bench requirements of manholes according to 10 CSR 20-8.120(6)(E).
9. Provide corrosion protection for manholes consistent with 10 CSR 20-8.120(6)(H).
10. On Page 300-7 and Detail 302.03 of the provided specifications, states an inaccurate citation of waterproofing manholes "10CSR20-8.120(7)(E)". The regulations were updated on February 29, 2012 and some of the citations have changed. 10 CSR 20-8.120(6)(F)1 states, "[m]anholes shall be watertight." Update this citation.
11. Per 10 CSR 20-8.120(8)(A)3, manholes shall be located so they do not interfere with the free discharge of flood flows of a stream. Specify this requirement with stream crossings.
12. Address the siltation and erosion with stream crossings according to 10 CSR 20-8.120(8)(B)2.
13. "If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to one hundred fifty pounds per square inch (150 psi) (1,034 kPa) to assure watertightness", per 10 CSR-8.120(10)(C)1.B. Incorporate this requirement for the protection of water supplies.

#### **RECOMMENDATIONS:**

The Department is providing the following recommendations to improve the provided standard specifications and details. These recommendations are not required actions, but will allow for a more well-rounded standard specifications and details.

1. Recommend the addition of high velocity protection of pipes in accordance with 10 CSR 20-8.120(5)(D)5.

Mr. Scott Hitchcock, P.E., City Engineer  
June 18, 2014  
Page 3

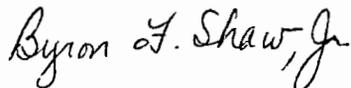
2. "The bottom of the pipe should be placed no lower than the elevation of the fifty (50)-year flood", per 10 CSR 20-8.120(9)(C). Detail 304.04 states "bottom of casing pipe to be at a minimum of 1' above the 25 year flood elevation." Consider revising this detail note.
3. "Manholes should be located at least ten feet (10') (3.0 m) horizontally from any existing or proposed water main", per 10 CSR 20-8.120(10)(C)1.C. This is a recommended addition to protect drinking water supplies.
4. Details can clearly demonstrate what the expectation is in certain instances often better than words. The following details are a suggested addition:
  - a. Shallow manhole; and
  - b. Thrust blocks.

Construction, installation, expansion or modification of any collection system or wastewater treatment facility is prohibited until a construction permit is issued by the Department, per 10 CSR 20-6.010(4)(A).

If you have any questions concerning this matter, please contact Mrs. Emily Carpenter, of the Water Protection Program, at 573-751-6569, [emily.carpenter@dnr.mo.gov](mailto:emily.carpenter@dnr.mo.gov), or Missouri Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102-0176. Thank you.

Sincerely,

WATER PROTECTION PROGRAM



Byron F. Shaw, Jr., P.E., SRF Engineering Unit Chief  
Financial Assistance Center

BFS:ecc

- c: St. Louis Regional Office  
Mr. Refaat Mefrakis, P.E., Water Protection Program, Engineering Section  
Mrs. Emily Carpenter, Water Protection Program, Financial Assistance Center

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STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES

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

www.dnr.mo.gov

OCT 28 2015

CERTIFIED MAIL: 7012 2920 0002 0660 7754  
RETURN RECEIPT REQUESTED

Mr. Doug Post  
Wilmer Investment Group  
400 Crossroads Business Park  
Wentzville, MO 63385

RE: The Cedars – Wentzville Water Reclamation Center, MO-0093599, CP#MOGC00056,  
St. Charles County, Construction Permit Comments

Dear Mr. Post:

The Missouri Department of Natural Resources, Water Protection Program (WPP) has finalized the review of The Cedars plans and specifications submitted by Musler Engineering on behalf of Wilmer Investment Group with a received date of September 29, 2015. Your application is being placed on hold until the following comments have been satisfactorily addressed. We expect a response to the following questions and comments below within 30 days receipt of this letter:

1. The submitted plans reference the City of Wentzville Standard Specifications and Construction Details, which have not yet been approved by the WPP. Therefore, we will require one hard copy of specifications that have been signed and sealed by a professional engineer for our review. One electronic copy would be appreciated to aid in our review. The submitted specifications may be a signed and sealed copy of the City of Wentzville Standard Specifications and Construction Details, or a variation thereof; however please note the preliminary comments below.
2. The approval letter from the city of Wentzville notes that the proposed project has an estimated daily flow of 5,180 gpd, while the construction permit application states that the design average flow is 6,750 gpd. Please clarify what the proposed design flow is, what the basis for the flow is, and provide an updated approval letter from the city with the corrected flow amount, if necessary.

3. The submittal does not include all technical and design information used to design the collection system and pump stations as required at 10 CSR 20-8.110(4)(B)6., including the basis for design flow, grinder pump calculations (energy requirements, required head and flow, pump curves, friction losses, etc.), and resulting velocities in sewers. This information is also required to be submitted by 10 CSR 20-8.110(4)(B)2., 10 CSR 20-8.110(5)(E), and 10 CSR 20-8.120(4)(A)2.
4. Missouri's GeoSTRAT mapping website (<http://dnr.mo.gov/geostrat/>) indicates a domestic water well at 1420 Wilmer Road. As per 10 CSR 20-8.120(10)(B)2., all existing water works units, such as basins, wells, or other treatment units, within 200-feet of the proposed sewer shall be shown on the engineering plans. Please include the location of this well on a map of the site.
5. Include a detail drawing for the grinder pump unit wet well and specify the size of the wet well.

A preliminary review of the City of Wentzville Standard Specifications and Construction Details was performed and the following issues were noted:

1. As per 10 CSR 20-8.120(5)(H)2.C., "Ledge rock, boulders, and large stones shall be removed to provide a minimum clearance of 4-inches (10 cm) below and on each side of all pipe(s)." Please update the plans and/or specifications to verify that this requirement will be met.
2. Verify that the bedding, haunching, and initial backfill of pipe shall be in accordance with 10 CSR 20-8.120(5)(H)3., and that final backfill will meet the requirement at 10 CSR 20-8.120(5)(H)4.A. that debris, frozen material, large clods, stones, organic matter, or other unstable materials shall not be used for final backfill *within 2 feet of the top of the pipe.*
3. Update the deflection test requirements to specify that a mandrel used for deflection testing must have nine or more odd number of flutes or points in accordance with 10 CSR 20-8.120(5)(H)5.C.
4. Update the plans and/or specifications to ensure that the pressure testing required by 10 CSR 20-8.120(10)(C)1.B, shall be met when it is impossible to obtain proper horizontal and vertical separation for sewers: "the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150-pounds per square inch (psi) (1,034 kPa) to assure watertightness."
5. The most recent standard specifications and drawings available online for the city of Wentzville include a section for sanitary sewage pump stations. It is not clear from this specification which items may or may not apply to a grinder pump station. Please submit a specification section specific to grinder pumps to clarify which items would apply. In particular, please specify the requirements for telemetry, alarm systems, electrical requirements, control panels, standby units, and emergency operation.

Mr. Doug Post  
Page Three

In accordance with 10 CSR 20-6.010(4)(E), “[a]pplicants who fail to satisfy all department comments after two certified department comment letters in a time frame established by the department shall have the application returned as incomplete and the construction fees shall be forfeited. The applicant has the right to request that the time frames be extended when additional time is needed. The request must occur within the established time frame, it must be in writing and the department will grant reasonable time extensions.”

If the city of Wentzville seeks funding through the department, additional comments may be provided through a similar review to meet the requirements of 10 CSR 20-4, “Grants and Loans”.

Construction, installation, expansion or modification of any collection system or wastewater treatment facility is prohibited until a construction permit is issued by the department, per 10 CSR 20-6.010(4)(A).

If you have any questions or if you would like to schedule a meeting to discuss the project, please contact me at 573-751-1714, [cailie.carlile@dnr.mo.gov](mailto:cailie.carlile@dnr.mo.gov), or Missouri Department of Natural Resources Water Protection Program, P.O. Box 176, Jefferson City, Missouri 65102. Thank you.

Any permit applicant may request an evaluation by the review engineer’s direct supervisor, Ms. Cindy LePage, P.E., at 573-751-6618, or [cindy.lepage@dnr.mo.gov](mailto:cindy.lepage@dnr.mo.gov).

Sincerely,

WATER PROTECTION PROGRAM



Cailie Carlile,  
Engineering Section

CAC:kv

c: Mr. Rich Musler, P.E., Musler Engineering  
Mr. Devon Dezort, City of Wentzville