



STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

February 2, 2017

Alan Johnson
City of Anamosa
107 South Ford Street
Anamosa, IA 52205

RE: 2nd Street Lift Station and Sanitary Sewer Collection System Improvements
City of Anamosa
DNR Project No. 2016-0313A

Subject: Variance Request from 567 IAC 64.2(9) and Design Standards Section 12.4
and 12.6

Dear Mr. Johnson:

After careful and thorough consideration, the Department has approved your December 1, 2016 request for a variance from Iowa Administrative Code Subrule 64.2(9) and Chapter 12.4, 12.5.3 and 12.6 of the Iowa Wastewater Facilities Design Standards, which specifies sewer material and installation methods for gravity sewers.

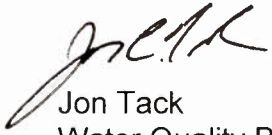
Based on the documentation presented by your Engineer, it is the determination of this Department that satisfactory justification has been presented to warrant the granting of a variance for the installation of gravity sewers by pipe bursting methods utilizing HDPE pipe. The requested variance is deemed to be reasonable and necessary pursuant to the Iowa Code section 455B.181.

The facts presented for the project present unique circumstances and the variance is therefore justified to provide the narrowest exception possible to the provisions of the rule in accordance with Rule 561 IAC 10.5. Since the project planning and construction may last more than one year, the variance is considered to be of a permanent nature. The validity of this variance approval shall last for a period of one year from the date of the construction permit in accordance with Rule 561 IAC 10.5.

This decision is based on our review of justification presented to support the request. Our concurrence with the request is based on the Department's finding that the resulting project will provide substantially equivalent effectiveness as would be provided by technical compliance with the design standard on this issue.

Please feel free to contact Melissa Schlickbernd at 515-725-8424 or melissa.schlickbernd@dnr.iowa.gov if you have any further questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Jon Tack", written in a cursive style.

Jon Tack
Water Quality Bureau Chief

cc: Lindsay Beaman, Snyder & Associates (Cedar Rapids)
DNR FO #1
DNR Sewage File 6-53-07-0-01
Project File 2016-0313A

VARIANCE REQUEST
Iowa Department of Natural Resources

1. Date: February 2, 2017 2. Reviewer/Engr.: Melissa Schlickbernd 3. Date Received: January 31, 2017 4. Facility Name: City of Anamosa 5. Facility Number: 6-53-07-0-01 6. County Number: 53 (Jones) 7. Program Area: CP (Wastewater) 8. Facility Type: C01 (Collection/Transport) 9. Subject Area: 392b (Pipe Bursting-Materials) and 10. Rule Reference: 392c (Pipe Bursting-Installation) 11. Design Std. Ref.: 567-64.2(9)a 12. Consulting Engr.: 12.4 (Materials) and 12.6 (Details 13. Variance Rule: of Construction) 12. Snyder & Associates 13. 567-64.2(9)c	14a. Decision: <i>App'd.</i> Date: <i>2/3/17</i> Expiration Date 14b. (if any): 15. Appealed: Date:
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16. Description of Variance Request:

The City of Anamosa is requesting a variance from the Iowa Wastewater Facilities Design Standards Chapter 12 - Iowa Standards for Sewer Systems - 12.4 (Materials) and 12.6 (Details of Construction) for the installation of gravity sewers by pipe bursting utilizing HDPE (high density polyethylene) pipe. The proposed sewer material and installation method is not covered in the current Iowa Wastewater Facilities Design Standards.

17. Applicant's/Consulting Engineer's Justification:

To minimize impacts to existing infrastructure, pipe bursting is being considered as a construction measure to upgrade the existing sanitary sewer gravity main. HDPE is the pipe material commonly used for pipe bursting sewer installations. Variances allowing pipe bursting construction of sanitary sewers with HDPE have been granted on multiple occasions.

18. Department's Justification:

Recommend variance approval.

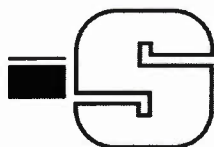
Pipe bursting has been approved by the Department by variance at many other locations in the past. The proposed installation makes a clear improvement over the existing condition of the sewer line and these methods are justified by eliminating the potential disruption and damage to existing properties.

Based on previous documentation provided to the Department, use of pipe bursting as a trenchless technology provides an established and acceptable technology for installation in an innovative manner not covered by the current Iowa Wastewater Facilities Design Standards.

19. Precedents Used:

City of Tame - Approved 4/3/15
 City of Cedar Rapids - Approved 4/8/13
 City of Cedar Rapids - Approved 12/10/13
 City of Lowden - Approved 10/2/12
 City of Grimes - Approved 3/10/10

20. Staff Reviewer: <i>Melissa Schlickbernd</i>	Date: <i>2/2/17</i> <i>LS 2/2/17</i>
21. Supervisor: <i>Satya Chandra</i>	Date: <i>2/3/17</i>
22. Authorized by: <i>JCR</i>	Date: <i>2/8/17</i>



Memorandum

To: Melissa Schlickbernd, P.E. Iowa Department of Natural Resources
From: Lindsay Beaman, P.E. Snyder and Associates, Inc
CC: City of Anamosa
RE: Variance Request – Pipe Bursting For Sanitary Sewer Improvements
2nd Street Lift Station and Sewer System Improvements
DNR Project Reference: S2016-0313A

Per 561 Iowa Administrative Code (IAC) Chapter 10, the City of Anamosa is requesting a variance to the Iowa Department of Natural Resources (IDNR) Wastewater Facilities Design Standards for the 2nd Street Lift Station and Sewer System Improvements Phase 2 project.

The following information has been provided per the IDNR's Variance Request Guidance document:

1. Name, address and telephone of entity requesting the variance:
 - a. City of Anamosa
107 South Ford Street
Anamosa, IA 52205
319-462-6055
2. A description and citation of the specific rule from which a waiver or variance is requested:
 - a. A variance is requested for the methods and details of construction as cited in Chapter 12, Sections 12.4, 12.5, and 12.6 of the IDNR Wastewater Facilities Design Standards.
3. The specific waiver or variance requested, including the precise scope and operative period that the waiver or variance will extend:
 - a. The variance requested is use of HDPE (high-density polyethylene) pipe material for installation of the proposed sanitary sewer piping in lieu of pipe materials outlined in Chapter 12, Section 12.4.
 - i. The variance will extend from construction through the design life of the proposed sanitary sewer main.
 - b. The variance requested is the use of pipe bursting for installation of the proposed sanitary sewer piping in lieu of installation method as outlined in Chapter 12, Section 12.6.

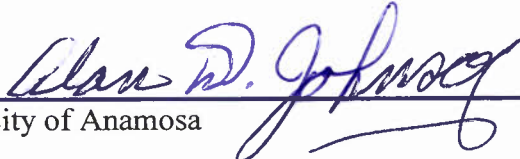
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5005 Bowling Street S.W. Suite A | Cedar Rapids, IA 52404
p: 319.362.9394 | f: 319.362.9448 | www.snyder-associates.com

- i. The variance will extend from construction through the design life of the proposed sanitary sewer main.
4. The relevant facts that the petitioner believes would justify a waiver or variance:
 - a. To minimize impacts to existing infrastructure, pipe bursting is being considered as a construction measure to upgrade the existing sanitary sewer gravity main. The proposed segments of sewer replacement, as shown in the D Sheets, indicates sections of proposed sanitary sewer pipe replacement that are being considered for pipe bursting. HDPE is the pipe material commonly used for pipe bursting sewer installations.
5. The history of prior contacts between the Department and the petitioner for the past five years:
 - a. There has been correspondence with the IDNR regarding this variance. Prior to Facility Plan approval Melissa Schlickbernd commented that if the City were to consider this option a variance request would be needed.
6. Information known to the petitioner regarding the Department's treatment of similar cases:
 - a. The Engineer and Applicant understand that variances from Chapter 12, Sections 12.4 and 12.6 allowing pipe bursting construction of sanitary sewers have been granted on multiple occasions.
7. The name, address, and telephone number of any public agency or political subdivision of the state or federal government which also regulates the activity in question, or might be affected by the granting of a waiver or variance:
 - a. At this time we are unaware of other public agency or political subdivisions of the state or federal government that also regulate the activity in questions, or might be affected by the granting of the variance being requested.
8. The name, address, and telephone number of any person or entity that would be adversely affected by the granting of the petition:
 - a. At this time we are unaware of any person or entity that would be adversely affected by the granting of the petition.
9. The identity of those having knowledge of relevant facts concerning the variance:
 - a. Dan Smith, Wastewater Superintendent, City of Anamosa
 - b. Alan Johnson, City Administrator, City of Anamosa
 - c. Lindsay Beaman, P.E., Project Engineer, Snyder & Associates, Inc
 - d. Nick Eisenbacher, E.I., Project Engineer, Snyder & Associates, Inc



Signed Release:

I attest to the accuracy of the facts provided in the petition and the reasons as listed to justify issuance of the variance request.



City of Anamosa

I attest to the accuracy of the facts provided in the petition and the reasons as listed to justify issuance of the variance request.

	<p>I hereby certify that this Engineering Document was prepared by me or under my direct personal supervision and that I am a duly Licensed Professional Engineer under the Laws of the State of Iowa.</p> <p> <u>12/1/2016</u> _____ Lindsay R. Beaman, P.E. Date License Number 19971 My License Renewal Date is December 31, 2017 Pages or sheets covered by this Seal: All _____</p>
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Please feel free to contact me at (319) 362-9394 with any questions pertaining to this variance request.

Sincerely,

SNYDER & ASSOCIATES, INC

Lindsay Beaman, P.E.
Project Manager

CC: City of Anamosa

VARIANCE REQUEST NOTIFICATION
Iowa Department of Natural Resources

All Fields are Required

- | | |
|--------------------------|--------------------|
| 1. Reviewer/Engr.: _____ | 7. Decision: _____ |
| 2. Date Received: _____ | Date: _____ |
| 3. Facility Name: _____ | |
| 4. Program Area: _____ | |
| 5. Subject Area: _____ | |
| 6. Rule Reference: _____ | |

8. Description of Variance Request: **Summarize (250 characters)**

9. Department's Justification: **Summarize (250 characters)**

10. Type name: _____

Supervisor/Bureau Chief/DA

Date

*The original, approvals, letters, code and other supporting documentation is to be maintained by the program in accordance with the [Records Retention Schedule](#).

To Submit: Attach this form to an email and send it to Webmaster@dnr.iowa.gov with the subject line: Variance Submittal (542-0541)