



GRINNELL PUBLIC WORKS OR GROUNDS COMMITTEE REGULAR
SESSION MEETING
MONDAY, OCTOBER 6, 2025, AT 4:45 PM
IN THE COUNCIL CHAMBERS ON THE 2ND FLOOR OF CITY HALL
AND VIA ZOOM
[HTTPS://ZOOM.US/J/97745710963?PWD=AHXLPUWIZRRNOS46BLKA
APDIQZBRXA.1](https://zoom.us/j/97745710963?pwd=AHXLPUWIZRRNOS46BLKAAPDIQZBRXA.1)

MEETING ID: 977 4571 0963
PASSCODE: 008525

TENTATIVE AGENDA

A. Roll Call:

B. Perfecting and Approval of Agenda:

C. Committee Business:

1. Consider approval of a Service Line Material Notification letter and update on service line inventory.
2. Consider approval of a right-of-way request from Aureon (INS), 5th Avenue.
3. Consider approval of a Service Agreement with Bishop Engineering for survey services for Davis Park in the amount of \$8,700.00.
4. Consider approval of a driveway approach request for 325 6th Avenue.
5. Consider approval of a resolution approving contract Change Order No. 1 in the amount of \$88,889.44 for a net increase to the contract with WRH, Inc. for the Water Treatment Plant Project. (See Resolution No. 2025-170)
6. Consider approval of a resolution accepting the work for the North Streets Inlay Project. (See Resolution No. 2025-171)
7. Consider approval of a resolution accepting work on the 4th Avenue Reconstruction - Prince Street to Pearl Street Project. (See Resolution No. 2025-172)
8. Consider approval of a resolution authorizing payment of contractor's Pay Request No. 1, in the amount of \$467,865.00 to Manatt's for the Bliss Street & 8th Avenue Improvements Project. (See Resolution No. 2025-173)

Any person with a disability who requires a modification or accommodation in order to participate in the meeting, or any person with limited English proficiency (LEP) who requires language assistance to communicate with the City Council during the meeting, should contact the City Clerk, (641) 236-2600 or adevig@grinnelliowa.gov, no fewer than two business days prior to the meeting to enable the City of Grinnell to make reasonable arrangements to assure accessibility or language assistance for the meeting.

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**Please note that this agenda may be changed up to 24 hours before the meeting time, as provided by Section 21.4(2) Code of Iowa.*

9. Consider approval of a resolution authorizing payment of contractor's Pay Request No. 1, in the amount of \$73,188.93 to Con-Struct, Inc. for the Broad Street Inlay Project. (See Resolution No. 2025-174)
10. Consider approval of a resolution authorizing payment of contractor's Pay Request No. 1, in the amount of \$174,185.70 to InRoads, LLC. for the Hazelwood Cemetery Roads Project. (See Resolution No. 2025-175)
11. Consider approval of a resolution authorizing payment of contractor's Pay Request No. 6, in the amount of \$136,567.25 to Con-Struct, Inc. for the Scout Subdivision. (See Resolution No. 2025-176)
12. Consider approval of a resolution setting the date for a public hearing on the proposed plans and specifications, proposed form of contract and estimated construction cost for the construction of the 4th Avenue Reconstruction (2026) - State Street to East Street Project. (See Resolution No. 2025-177)
13. Consider approval of a resolution authorizing payment of contractor's Pay Request No. 7, in the amount of \$932,823.64 to WRH, Inc. for the Water Treatment Plant Project. (See Resolution No. 2025-178)
14. Consider approval of a resolution approving contract Change Order No. 1 in the amount of \$16,197.00 for a net increase to the contract with Braun Intertec for the Construction Materials Testing for the Water Systems Improvement Project. (See Resolution No. 2025-179)
15. Review the Grinnell Water Department Sanitary Survey.

D. Inquiries: Public Comment

Visitors may address the Council/Board at this time; however, comments will be limited to 2 minutes. As per Iowa's Open Meetings Law, Council/Board can only listen during public comments and cannot take any action on items that are not posted on the agenda. Council may take issues under advisement and if needed refer them to a department head, Mayor's committee, or add them to a future agenda.

E. Adjourn:

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CITY OF GRINNELL
520 Fourth Avenue
Grinnell, Iowa
50112-1947
Phone: 641-236-2600
Fax: 641-236-2626

MAYOR

DAN F. AGNEW
dagnew@grinnelliowa.gov

CITY COUNCIL

BYRON HUEFTLE-WORLEY
At-Large

JIM WHITE
At-Large

LEE STAROSKA
1st Ward

JO WRAY
2nd Ward

RACHEL BLY
3rd Ward

SHANE HART
4th Ward

ADMINISTRATION

RUSSELL L. BEHRENS
City Manager
rbehrens@grinnelliowa.gov

ALYSSA DEVIG
City Clerk/Finance Director
adevig@grinnelliowa.gov

KRISTINE STONE
City Attorney
kstone@ahlerslaw.com

Visit us at
www.grinnelliowa.gov

Oct. 1, 2025

Dear Resident,

The Grinnell Water Department practices effective corrosion control treatment to keep service line materials such as lead from leaching into the water. We test water annually from homes around the city with lead service lines to confirm that our practices are working and to comply with the Environmental Protection Agency's Lead and Copper Rule.

Enclosed, you'll find a Service Line Material Notification. The Grinnell Water Department is required by the Environmental Protection Agency to send the enclosed information annually to each service address with water service pipes of unknown material, galvanized material, and confirmed lead material. This information is for your reference and no action is required at this time.

For more information regarding service lines, the Lead and Copper Rule, or anything water related please email me.

Thank you,

Keagan Richmond
Director, Grinnell Water Department
krichmond@grinnelliowa.gov

Notification of Known or Potential Service Line Containing Lead

Under the 2021 Lead and Copper Rule Revisions (LCRR), water systems must provide people with specific information about their service lines. This requirement begins on **October 16, 2024**. Since this is a new regulatory requirement, EPA recommends water systems plan ahead to ensure readiness to comply with the new requirements. This fact sheet provides an overview of the EPA's requirements for content, delivery, and timing of this notification.

NOTIFICATION OF KNOWN OR POTENTIAL SERVICE LINE (SL) CONTAINING LEAD

It is important for consumers to know if the water they are receiving has been delivered through a lead, galvanized requiring replacement (GRR), or lead status unknown service line. This information is intended to help owners and/or occupants make decisions on whether and what actions to take to reduce their exposure to lead in drinking water.

Who must meet this requirement?

All community water systems (CWSs) and non-transient non-community water systems (NTNCWSs) must provide notification of known or potential SL containing lead when applicable.

CONTENT

What Must be Included in Notification of Known or Potential SL containing lead?

Notification content requirements differ depending on if the consumer is serviced by a lead, GRR, or lead status unknown service line.

Lead	GRR	Lead Status Unknown
✓ A statement that the service line is lead.	✓ A statement that the service line is GRR.	✓ A statement that the service line material is unknown but may be lead.
✓ An explanation of the health effects of lead as specified in the rule and below.	✓ An explanation of the health effects of lead as specified in the rule and below.	✓ An explanation of the health effects of lead as specified in the rule and below.
✓ Steps persons at the service connection can take to reduce exposure to lead in drinking water.	✓ Steps persons at the service connection can take to reduce exposure to lead in drinking water.	✓ Steps persons at the service connection can take to reduce exposure to lead in drinking water.
✓ Information about opportunities to replace LSLs as well as programs that provide financing solutions to replace the LSL.*	✓ Information about opportunities for replacement of the service line.	✓ Information about opportunities to verify the material of the service line.

*EPA recommends that water systems ask the owner of the service connection to contact the water system prior to making any arrangements to have the service line replaced.

Health Effects Language: *Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems.*

WHO DO I NEED TO PROVIDE A NOTIFICATION TO?

Notifications must be provided to people served by the water system by the given service line.

HOW DO I PROVIDE A NOTIFICATION OF KNOWN OR POTENTIAL SL CONTAINING LEAD?

You must provide the notification, by mail or by another method approved by the primacy agency. An example of another method may be a NTNCWS posting the results on a bulletin board in the facility to allow consumers to review the information.

WHEN DO I PROVIDE NOTIFICATION OF KNOWN OR POTENTIAL LSL?

The timing requirements for initial, repeat, and discontinuing notification of known or potential LSL are as follows:

Initial: You must provide the initial notification within **30 days of completion of the initial SL inventory**. You must also provide the notice for new customers at the time-of-service initiation.

Repeat: You must provide repeat notification on an annual basis.

Discontinuing: You may discontinue notification when the entire service line is no longer lead, GRR, or lead status unknown.

ADDITIONAL RESOURCES

For more information about LSLs, see the EPA's LSL webpage:

<https://www.epa.gov/ground-water-and-drinking-water/lead-service-lines>

For more information about lead in drinking water, see the EPA's Basic Information about Lead in Drinking Water webpage:

<https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water>

For more information about the notification of known or potential LSLs, see the EPA's LCR Implementation Tools webpage:

<https://www.epa.gov/dwreginfo/lead-and-copper-rule-implementation-tools>

Notice of Unknown Service Line Material

The Grinnell Water Department is focused on protecting the health of every household in our community. This notice contains important information about your drinking water. Please share this information with anyone who drinks and/or cooks using water at this property. In addition to people directly served at this property, this can include people in apartments, nursing homes, schools, businesses, as well as parents served by childcare at this property.

The Grinnell Water Department is working to identify materials throughout the water system and has determined, using available information, that the water pipe (called a service line) that connects your building to the water main is made from **unknown material** but may be lead. Because your service line material is unknown, there is the potential that some of the service line could be made of lead or galvanized pipe that was previously connected to lead. People living in homes with a lead or galvanized pipe that was previously connected to a lead service line have an increased risk of exposure to lead from their drinking water.

Identifying service line material

To help determine the material of your service line, please contact the Grinnell Water Department via email at krichmond@grinnelliowa.gov. EPA (U.S. Environmental Protection Agency) has developed an online step-by-step guide to help people identify lead pipes in their homes at

<https://www.epa.gov/ground-water-and-drinking-water/protect-your-tap-quick-check-lead-0>

Health effects of lead

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or worsen existing problems. The children of women who are exposed lead before or during pregnancy can have an increased risk of negative health effects. Adults can have increased risks of heart disease, high blood pressure, and kidney or nervous system problems.

Steps you can take to reduce lead in drinking water

If you are concerned about lead in your drinking water, there are steps you may take, separately or in combination, to reduce your exposure to lead. This is not intended to be a complete list, or to imply that all actions equally reduce lead in drinking water.

Use your filter properly. Using a filter can reduce lead in drinking water. If you use a filter, it should be certified to remove lead. Read any directions provided with the filter to learn how to properly install, maintain, and use your cartridge and when to replace it. Using the cartridge after it has expired can make it less effective at removing lead. Do not run hot water through the filter. For more information on facts and advice on home water filtration systems, visit EPA's website at www.epa.gov/water-research/consumer-tool-identifying-point-use-and-pitcher-filters-certified-reduce-lead.

Clean your aerator. Regularly remove and clean your faucet's screen (also known as an aerator). Sediment, debris, and lead particles can collect in your aerator. If lead particles are caught in your aerator, lead can get into your water.

Use cold water. Do not use hot water from the tap for drinking, cooking, or making baby formula, as lead dissolves more easily into hot water. Boiling water does not remove lead from water.

Run your water. The more time water has been sitting in the pipes providing water to your home, the more lead it may contain. Before drinking, flush your home's pipes by running the tap, taking a shower, doing laundry, or doing a load of dishes. The amount of time to run the water will depend on material, length, and diameter of your water service line and the amount of plumbing in your home.

Learn about construction in your neighborhood. Contact krichmond@grinnelliowa.gov, 641-236-2635, or sign up for alerts at www.grinnelliowa.gov to find out about any construction or maintenance work that could disturb your service line. Construction may cause more lead to be released from a lead service line or galvanized service line, if present.

Have your water tested. Contact your water utility at krichmond@grinnelliowa.gov to learn more about the lead levels in your drinking water. The Grinnell Water Department has lead testing done by a certified lab. We can help facilitate testing, but do not perform the testing ourselves. Alternatively, you may contact a certified laboratory to have your water tested for lead. We use Microbac Laboratories in Newton. **Note:** a water sample may not adequately capture or represent all sources of lead that may be present.

For information on sources of lead that include service lines and interior plumbing, please visit www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water#getinto

Replacing lead service lines.

Repair of lead service lines in Grinnell is no longer allowed. They must be replaced when repair or replacement is needed. The Grinnell Water Department is working to develop a plan to help replace some lead service lines using resources that are available through the state's Drinking Water State Revolving Fund. We are also working with a coalition of other cities across the state that are pushing legislators toward viable solutions to Iowa's lead problem. Property owners are ultimately responsible for their service lines.

If you are planning on replacing your service line, please notify us at krichmond@grinnelliowa.gov.

For information about potential financing solutions to assist property owners with replacement of lead service lines, please contact us at krichmond@grinnelliowa.gov.

For more information on reducing lead exposure from you drinking water and the health effects of lead, visit EPA's website at www.epa.gov/lead.

Contact the Iowa Department of Public Health. Contact your county or state health department if you have concerns about health effects caused by lead.

Notice of galvanized service line that is or was downstream of a lead service line

The Grinnell Water Department is focused on protecting the health of every household in our community. This notice contains important information about your drinking water. Please share this information with anyone who drinks and/or cooks using water at this property. In addition to people directly served at this property, this can include people in apartments, nursing homes, schools, businesses, as well as parents served by childcare at this property.

The Grinnell Water Department is working to identify materials throughout the water system and has determined, using available information, that at least a portion of the water pipe (called a service line) that connects your building to the water main is made from **galvanized material** and may have absorbed lead. EPA (U.S. Environmental Protection Agency) has defined these service lines as “galvanized requiring replacement¹”. Our records indicate that lead service line pipe may be present or might have been present in the past. If you have information that could help us better describe your service line, contact us at krichmond@grinnelliowa.gov or 641-236-2635.

Galvanized service lines that have absorbed lead can contribute to lead in drinking water. People living in homes with a galvanized service line that has absorbed lead may have an increased risk of exposure to lead from their drinking water.

Health effects of lead

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or worsen existing problems. The children of women who are exposed lead before or during pregnancy can have an increased risk of negative health effects. Adults can have increased risks of heart disease, high blood pressure, and kidney or nervous system problems.

Steps you can take to reduce lead in drinking water

If you are concerned about lead in your drinking water, there are steps you may take, separately or in combination, to reduce your exposure to lead. This is not intended to be a complete list, or to imply that all actions equally reduce lead in drinking water.

Use your filter properly. Using a filter can reduce lead in drinking water. If you use a filter, it should be certified to remove lead. Read any directions provided with the filter to learn how to properly install, maintain, and use your cartridge and when to replace it. Using the cartridge after it has expired can make it less effective at removing lead. Do not run hot water through the filter. For more information on facts and advice on home water filtration systems, visit EPA’s website at

www.epa.gov/water-research/consumer-tool-identifying-point-use-and-pitcher-filters-certified-reduce-lead

Clean your aerator. Regularly remove and clean your faucet’s screen (also known as an aerator). Sediment, debris, and lead particles can collect in your aerator. If lead particles are caught in your aerator, lead can get into your water.

¹ Refers to a galvanized service line that is or was at any time downstream of a lead service line, or is currently downstream of a “lead status unknown” service line.

Use cold water. Do not use hot water from the tap for drinking, cooking, or making baby formula, as lead dissolves more easily into hot water. Boiling water does not remove lead from water.

Run your water. The more time water has been sitting in the pipes providing water to your home, the more lead it may contain. Before drinking, flush your home's pipes by running the tap, taking a shower, doing laundry, or doing a load of dishes. The amount of time to run the water will depend on material, length, and diameter of your water service line and the amount of plumbing in your home.

Learn about construction in your neighborhood. Contact krichmond@grinnelliowa.gov or sign up for alerts at www.grinnelliowa.gov to find out about any construction or maintenance work that could disturb your service line. Construction may cause more lead to be released from a lead service line or galvanized service line, if present.

Have your water tested. Contact your water utility at krichmond@grinnelliowa.gov to learn more about the lead levels in your drinking water. The Grinnell Water Department has lead testing done by a certified lab. We can help facilitate testing, but do not perform the testing ourselves. Alternatively, you may contact a certified laboratory to have your water tested for lead. We use Microbac Laboratories in Newton. **Note:** a water sample may not adequately capture or represent all sources of lead that may be present.

For information on sources of lead that include service lines and interior plumbing, please visit www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water#getinto

Replacing lead service lines.

Repair of lead service lines in Grinnell is no longer allowed. They must be replaced when repair or replacement is needed. The Grinnell Water Department is working to develop a plan to help replace some lead service lines using resources that are available through the state's Drinking Water State Revolving Fund. We are also working with a coalition of other cities across the state that is pushing legislators toward viable solutions to Iowa's lead problem. Property owners are ultimately responsible for their service lines.

If you are planning on replacing your service line, please notify us at krichmond@grinnelliowa.gov.

For information about potential financing solutions to assist property owners with replacement of lead service lines, please contact us at krichmond@grinnelliowa.gov.

For more information on reducing lead exposure from your drinking water and the health effects of lead, visit EPA's website at www.epa.gov/lead.

Contact the Iowa Department of Public Health. Contact your county or state health department if you have concerns about health effects caused by lead.

Notice of Confirmed Lead Service Line

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The Grinnell Water Department has determined, using available information, that at least a portion of the water pipe (called a service line) that connects your home/building to the water main is made from lead. People living in homes with a lead service line may have an increased risk of exposure to lead from their drinking water.

Health effects of lead

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or worsen existing problems. The children of women who are exposed lead before or during pregnancy can have an increased risk of negative health effects. Adults can have increased risks of heart disease, high blood pressure, and kidney or nervous system problems.

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Run your water. The more time water has been sitting in the pipes providing water to your home, the more lead it may contain. Before drinking, flush your home's pipes by running the tap, taking a shower, doing laundry, or doing a load of dishes. The amount of time to run the water will depend on material, length, and diameter of your water service line and the amount of plumbing in your home.

Learn about construction in your neighborhood. Contact krichmond@grinnelliowa.gov, 641-236-2635, or sign up for alerts at www.grinnelliowa.gov to find out about any construction or maintenance work that could disturb your service line. Construction may

cause more lead to be released from a lead service line or galvanized service line, if present.

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City of Grinnell

PUBLIC RIGHT-OF-WAY COMMUNICATIONS SYSTEM LICENSE APPLICATION ORDINANCE NO. 1060

1. Applicant: Aureon (INS) 7760 Office Plaza Dr. South
Name Address
West Des Moines, IA 50266 515-830-0445
City, State Zip Telephone
2. Contact Person: Matt Weiser 7760 Office Plaza Dr. South
Name Address
West Des Moines, IA 50266 515-830-0497
City, State Zip Telephone
3. Application requires an engineering site plan for the proposed system that is to be placed within the City Right-of-way. Check off each of these items as they are included on the site plan:
 - ☒ Plans drawn to scale.
 - ☒ Street names.
 - ☒ Right-of-way widths.
 - ☒ Pavement widths.
 - ☒ Sidewalk location and width including sidewalk ramps.
 - ☒ Obstacles or improvements that are in or near the work area.
An example of such are: existing trees, fence, drainage structures,
Water stop-boxes, ditches, and utility vaults.
 - ☒ Horizontal and vertical location and physical size of the proposed utility.
 - ☒ Proposed construction work method such as “open cut” or “bore”.
 - ☒ A drawing and explanation of concrete or asphalt restoration.
 - ☒ Information regarding sod work and tree replacement.
 - ☒ Location of other existing utilities within the work area.
 - ☒ Typical detail sections where special attention is required for some restoration work.
 - ☒ Excavation soil replacement and compaction requirements. Aggregate replacement under street surfaces, soil backfill outside of 5’ from edge of street surface.
 - ☒ Detailed time schedule.
 - ☒ Address of adjacent properties.
 - ☒ Legal description of communication system location.

4. List any other items of concern particular to this project:

5. **Administrative Fee:** An Administrative fee of \$50.00 shall be due and payable to the City Engineer at the time of filing of the initial license application and at the time of filing of each proposed amendment to the license. (Attach copy of receipt)
Receipt No. __.

6. **Use Fee: (Serving no additional customers)** If the licensed serves no customers other than itself, then in addition to the Administrative Fee, the licensee shall pay a use fee to the City Engineer at the time of filing of the initial license application. The amount of the use fee shall be the greater of the following two (2) amounts: \$100.00 or \$1.00 per lineal foot of route traversed by the communication line within any public right-of-way in a C-2 zone and \$0.50 per lineal foot in any other part of the city. At the time of filing of each proposed amendment to the license involving an increase in the length of route traversed within public right-of-way, the licensee shall pay to the City Engineer an additional fee computed at the rate of \$1.00 per lineal foot of additional route of traversed within any public right-of-way.

(Serving additional customers) If the licensed system serves customers other than the licensee itself, then, in addition to the administrative fee, the licensee shall pay an annual use fee to the City Engineer. The annual use fee shall be based on a license year ending on March 31 of each year, and the use fee for each license year shall be due and payable at the end of such year on March 31, or if the license has terminated during such year, on the date of termination. The amount of the annual use fee shall be the greater of the following two (2) amounts: \$100.00, or three percent of the gross revenues derived by the licensee from the sale or exchange of services in connection with the operation of the licensee's communications system within the public right-of-way during the license year. Each annual use fee payment shall be accompanied by a report from the licensee in a form approved by the City Manager and the city legal department showing the basis for the computation of the fee and such other relevant data as may be required by the City Manager and the city legal department. Each such report shall contain a notarized verification by the chief financial officer of the licensee, and upon request by the city, such reports shall be verified by a certified public accountant at the expense of the licensee.

Office Use Only

Fees:	Administrative Fee:		<u>\$50.00</u>
	Use Fee:		
	(No Additional Customers) Greater of \$100.00 or:		
	Linear Feet Within C-2: <u>450</u>	x \$1.00	<u>450</u>
	Linear Feet Outside C-2: _____	x \$0.50	_____
		Total:	<u>\$ 500.00</u>

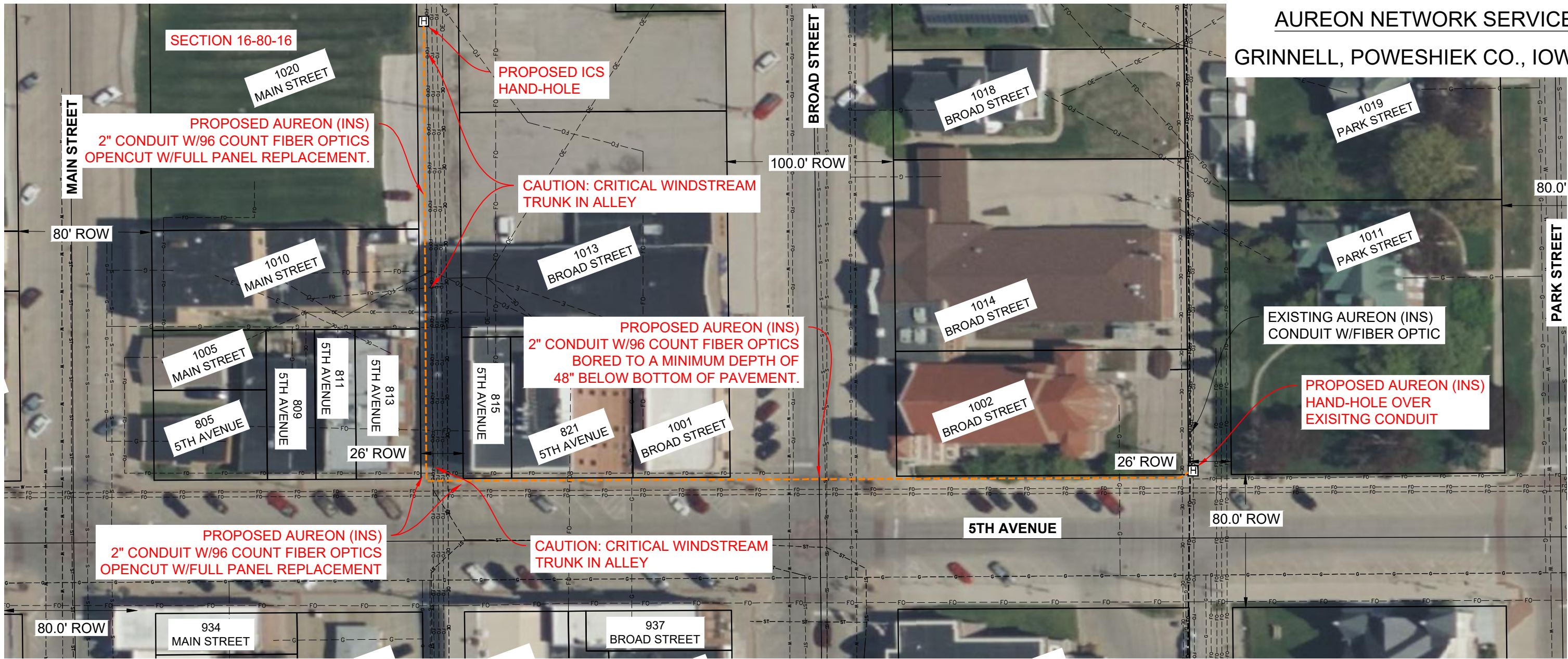
**(Additional Customers) Greater of \$100.00 or 3% Gross Revenues from Services.
Paid annually.**

Date of Acceptance 9-19-2025

Date of Approval _____

Staff TA

AUREON NETWORK SERVICES
GRINNELL, POWESHIEK CO., IOWA



NOTES

1. ALL ROADS, PAVED DRIVEWAYS AND SIDEWALKS WILL BE BORED.
2. DISTANCES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR WILL FIELD VERIFY CONDITIONS AND MATERIALS NEEDED PRIOR TO CONSTRUCTION.
3. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). CONTRACTOR TO OBTAIN ALL APPLICABLE PERMITS INCLUDING BUT NOT LIMITED TO CLOSURE PERMITS. ALL PERMITS SHALL BE OBTAINED PRIOR TO CONSTRUCTION.
4. THERE ARE NO LANE CLOSURES OR TRAFFIC DISRUPTIONS ANTICIPATED WITH THIS PROJECT.
5. IOWA ONE CALL DESIGN TICKET 552000316 WAS SUBMITTED FOR UTILITY MAPS FOR THIS PROJECT.

UTILITY WARNING

ANY UTILITIES SHOWN HAVE BEEN LOCATED FROM MAPS AND RECORDS OBTAINED BY THIS SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION SHOWN. A REQUEST WAS MADE TO IOWA ONE CALL FOR THE UTILITIES PROVIDERS TO LOCATE THEIR UTILITIES IN THE FIELD.

PROPOSED:

731'-2" HDPE ORANGE CONDUIT
1= HAND-HOLE



LEGEND

TELEPHONE PEDESTAL	W	SIGN	
WATER VALVE	W	POWER POLE	
FIRE HYDRANT	⊕	TELEVISION PEDESTAL	
TELEPHONE LINE	T	SANITARY SEWER MANHOLE	
CABLE TELEVISION LINE	TV	STORM SEWER MANHOLE	
FIBER OPTICS LINE	FO	ROUND STORM SEWER INTAKE	
WATERMAIN	W	STORM SEWER INTAKE	
STORM SEWER	ST	UNDERGROUND CONDUIT	
SANITARY SEWER	S	HANDHOLE	
GAS LINE	G	FIBER OPTIC VAULT	
ELECTRIC LINE	E	FIBER OPTIC MANHOLE	
OVERHEAD ELECTRIC LINE	OE		

ESTIMATED PLOWING	ESTIMATED BORES	BACKHOE WORK	TRENCHING	MISC.	NOTES

AUREON

PROJECT NO. _____
GRINNELL, IOWA Sheet 1 of 2

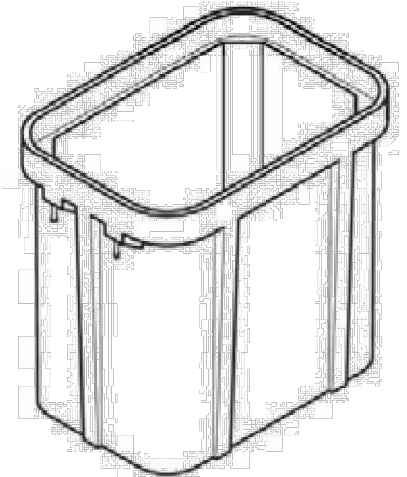
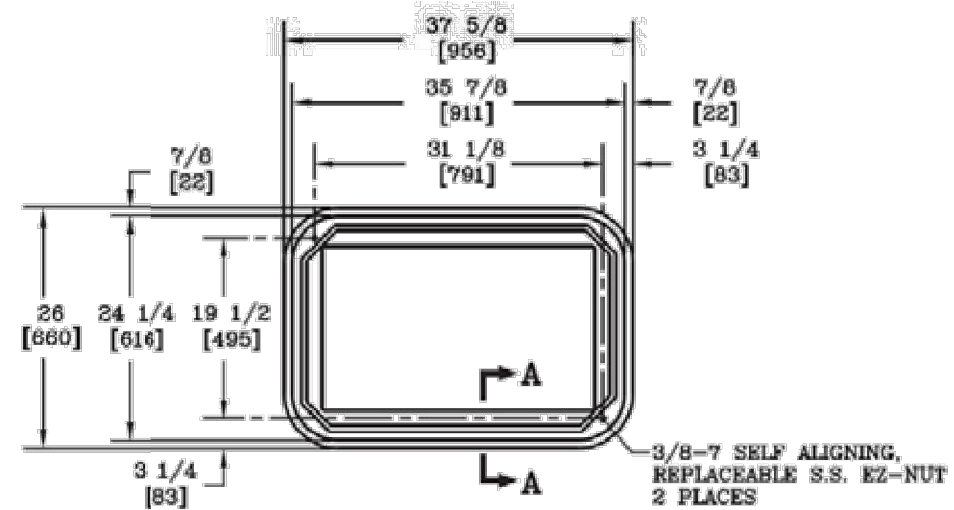
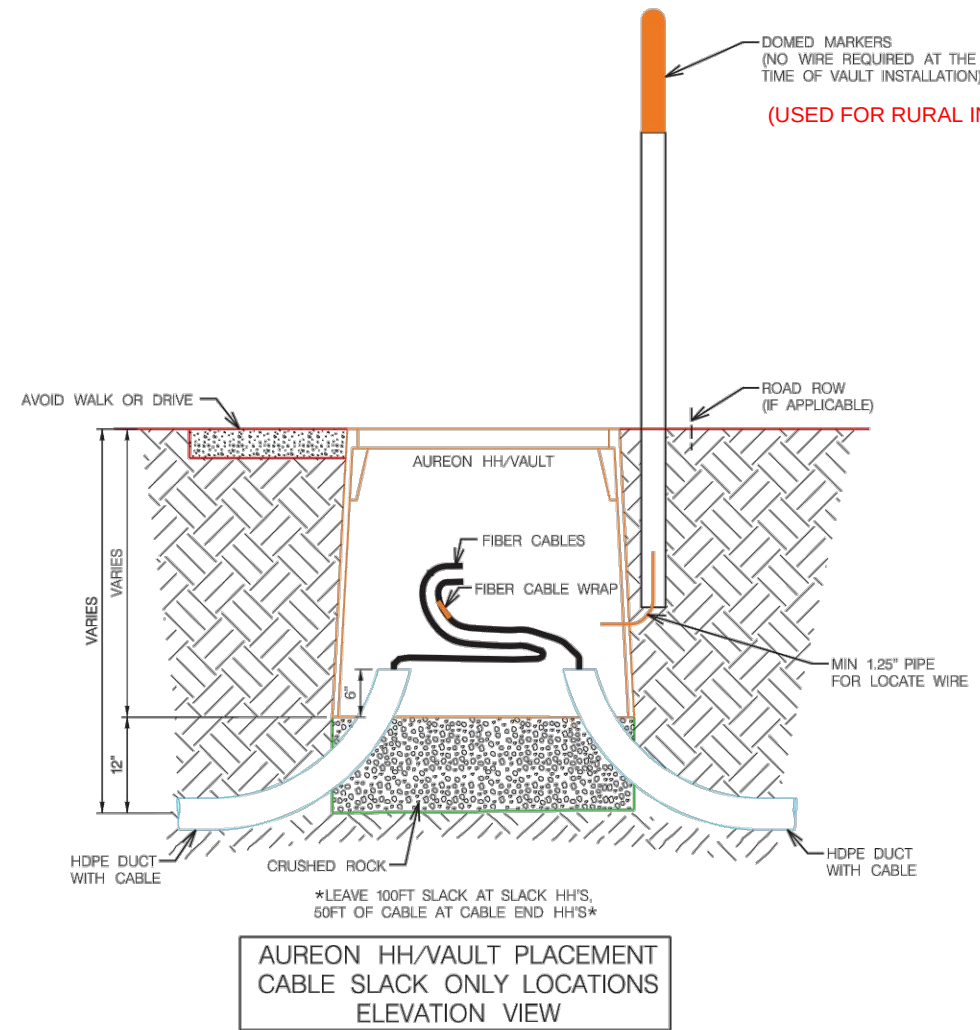
#	REVISION	DATE	NAME	SCALE:
1		9/19/25		

SCALE: 0' 15' 30' 60'

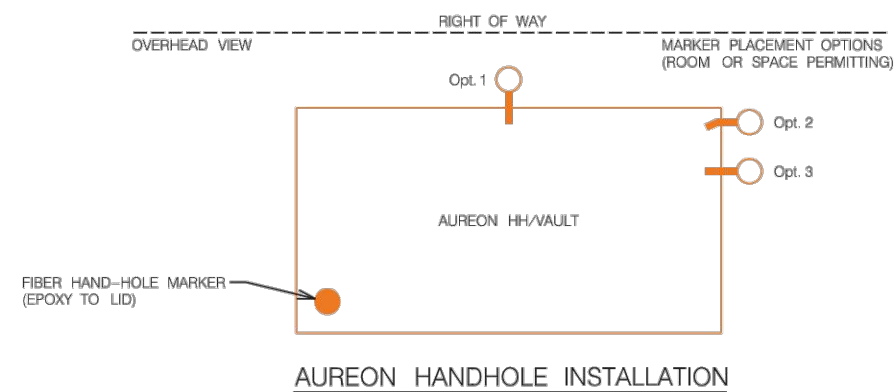
DATE: 9/17/2025

AUREON NETWORK SERVICES

HANDHOLE DETAIL



AUREON QUAZITE 24X36X36 DETAIL

[illegible]

RE: Aureon Fiber route along 5th Ave and down the alley east of Main Street

From Matthew Weiser <Matthew.Weiser@aureon.com>

Date Fri 9/19/2025 2:02 PM

To Tyler Avis <TAvis@grinnelliowa.gov>; Wayne Houser <WayneH@cda-eng.com>

Cc Jeff Klocko <Jeff.Klocko@aureon.com>

Hi Tyler,

Please see below in red. Hope this helps.

Let us know if you have any additional questions.

Wayne, would you be able to add the note for the second bullet below, regarding full panel replacements. Also, add a note regarding the critical Windstream trunk in the alley.

Thanks,
Matt



Matthew Weiser

Outside Plant Engineer

 7760 Office Plaza Drive South
West Des Moines, IA 50266

 Matthew.Weiser@aureon.com

 515-830-0497

 www.Aureon.com



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From: Tyler Avis <TAvis@grinnelliowa.gov>

Sent: Wednesday, September 17, 2025 2:44 PM

To: Wayne Houser <WayneH@cda-eng.com>

Cc: Matthew Weiser <Matthew.Weiser@aureon.com>; Jeff Klocko <Jeff.Klocko@aureon.com>

Subject: Re: Aureon Fiber route along 5th Ave and down the alley east of Main Street

[External Email] This message was sent from outside the company with a URL. Please do not click links unless you recognize the source of this email and know the content is safe.

Hi Wayne,

This looks like it will contain everything that we need, but I do have some questions:

- The specified notes for the Alley between Broad and Main states it will be open cut, as well as a portion along the north side of 5th Ave, but note #1 states Roads, Paved Driveways, and Sidewalk will be bored. Can you confirm what type of work will be done in the alley and along 5th Ave?
Boring will take place along 5th Avenue, to the east side of the alley. Once we get to the alley and due to the amount of infrastructure in the alley, we will need to open cut the alley to place our conduit. Ideally, once locates are completed, and we think there is a safe running line for directional boring we would look at that, if possible.
- If open cutting is done for this infrastructure, we will require full panel replacement whether it's an alley, road, or sidewalk panel. **Noted**
- There is a critical trunk located on the west side of the alley for Windstream that is directly below the concrete, and it has caused serious issues in the past when work has occurred. **Thanks for the heads up. We will be sure to make our contractor CDB Utility aware of this.**
- Is this work being done for the new apartment building at 1020 Main St? Either way, this work will need to be coordinated with both them and McNally's as this alley is key for the construction of the new building, as well as for the grocery store to receive deliveries. The Aureon team will be who coordinates this but the City must be made aware that a plan is accepted by all the parties before work begins. **This work is for the new apartment building. They are taking their entrance facilities out to towards the alley.**
- What is the timeframe for this work to begin? **Weather permitting, we would like to complete this during this year's construction season. That will depend on how far along the apartment gets with their work. We wanted to be sure to get our approved permits well in advance of them being ready, so we can start when the building gets further along.**

TYLER AVIS, MPP

BUILDING AND PLANNING DIRECTOR

CITY OF GRINNELL

520 4TH AVENUE

GRINNELL, IA 50112-2043

OFFICE: 641.236.2600



From: Wayne Houser <WayneH@cda-eng.com>

Sent: Wednesday, September 17, 2025 1:51 PM

To: Tyler Avis <Tavis@grinnelliowa.gov>

Cc: Matthew Weiser <matthew.weiser@aureon.com>; Jeff Klocko <jeff.klocko@aureon.com>

Subject: Aureon Fiber route along 5th Ave and down the alley east of Main Street

Hi Tyler,

Aureon Network Services has a proposed fiber route that begins at a proposed hand-hole over existing conduit in the north ROW of 5th Ave at the west edge of the alley east of Broad Street, then west crossing Broad Street to the alley east of Main Street, then north in the alley to a proposed ICS hand-hole.

They are proposing to bore the conduit along 5th Ave and open cut install the conduit crossing and going north in the alley.

I have attached the proposed fiber route exhibit and the Grinnell ROW form.

Please let me, Matt or Jeff know what else would be needed for City of Grinnell approval to install.

Thanks for your help,

Wayne

Wayne Houser / *Survey Project Manager*



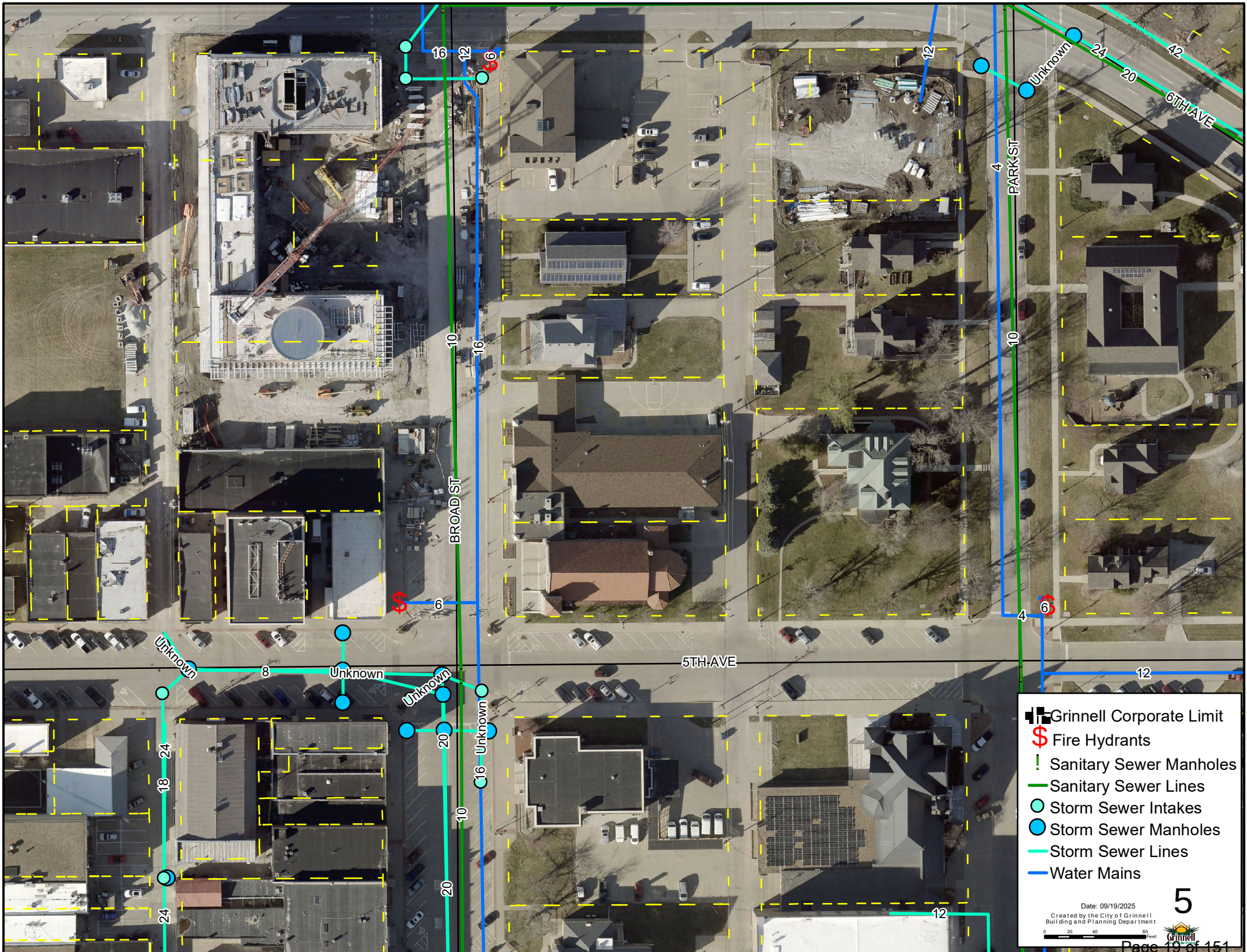
4121 NW Urbandale Drive, Urbandale, IA 50322

O 515.369.4400

F 515.369.4410

WayneH@CDA-eng.com

www.CDA-eng.com



- Grinnell Corporate Limit
- Fire Hydrants
- Sanitary Sewer Manholes
- Sanitary Sewer Lines
- Storm Sewer Intakes
- Storm Sewer Manholes
- Storm Sewer Lines
- Water Mains

Date: 09/19/2025
Created by the City of Grinnell
Building and Planning Department



September 3, 2025

3501 104th St. Urbandale, IA 50322
(515) 276-0467

Jordan Allsup
Parks and Recreation Director
Grinnell, Iowa

Re: Survey services for Davis Park. Grinnell, Iowa

Jordan,

Thank you for the opportunity to provide you with this estimate for the above-mentioned property. Based on the email Request for Proposal I have prepared the following cost of services and comments for specific items.

Scope of Services

Boundary Survey: Locate and verify Block corners. A survey drawing will be drawn and filed with the Recorder. Platting is not part of this Scope.

Topographic Survey: Locate the improvements on the property and within the adjoining Street Right of Way. Take elevations throughout the site and provide contours at one-foot intervals. Storm and Sanitary inverts will be called out.

We will Coordinate with Iowa One Call for utility maps and marking underground utility lines. We will also locate utilities based on surface evidence such as manholes and hydrants

Specific Comments on RFP items:

Survey will conform to the RFP except for the following concerns:

Item 1.7 If city or school district has knowledge of these items we will show them per their direction, Bishop Engineering can not be responsible for the location of these.

Item 1.8 newer easements can be researched on Iowa Land Records, older easements will need to be provided in a title opinion or an abstract if available.

Item 4.1 elevations will be shot as necessary to accommodate 1 foot contours, this will not be on 10' grids as requested.

Item 6.1 We will Coordinate with Iowa One Call for utility maps and marking underground utility lines; Public lines are all that they will mark so some private service lines into the buildings will not be able to be shown.

Fee: This work is estimated to cost \$8700.

Delivery: Iowa One Call takes 2 weeks from time of contacting them to get marks painted in the field. The delivery of the survey can be 2 weeks after that.

Please sign and return for our records. Let me know if you have any questions.

Respectfully,

Larry Hyler PLS



09-03-2025

Signature showing acceptance and authorizing us to proceed

Date

SITE ONE: **Davis Park (Old Davis Elementary School**
818 Hamilton Ave,
Grinnell, IA 50112

August 15, 2025

RDG IA 3006.866.02

DAVIS PARK

DESCRIPTION: Davis Park is a newly established park property that was once the Davis Elementary School property. The park will be located on the bottom half of the site (see illustration below)



Article 1. Site Information:

- 1.1. Provide Benchmark location and elevation
- 1.2. Provide Coordinate point locations
- 1.3. Property lines showing bearings and distances on straight lines and all data for curved lines. If no monument exists set a permanent legal monument at property corners. State on drawing whether corners were found or set and describe each.
- 1.4. Furnish legal description, which conforms, to the Record Title Boundaries. Prior to making survey, the Surveyor shall acquire data including, but not limited to, deeds, maps, certificates or abstracts of title, section lines and other boundary line locations.
- 1.5. All planmetric features such as buildings, trees, fences, streets, parking lots, retaining walls, etc., on the site and on adjacent property within 10' of the property line.
- 1.6. Type, size, spread or drip line and species of trees, e.g. 18" caliper White Oak.
- 1.7. Location of abandoned or existing wells, septic tanks, leach fields, field tiles, underground vaults, foundations, coal chutes, caves, etc.
- 1.8. All current easements.
- 1.9. Zoning of property and of adjacent properties and properties across all adjacent streets and alleys, including zoning district setback requirements.
- 1.10. Type of surface materials; streets, parking lots, sidewalks, curb and gutter, groundcover, etc.

Article 2. Buildings:

- 2.1. Type of construction.
- 2.2. Height.
- 2.3. Entrances and door types.
- 2.4. Finish Floor Elevation

Article 3. Elevations on Grid:

- 3.1. 50' as required.
- 3.2. Top of curb and gutter or edge of road.
- 3.3. Centerline of streets or roads.
- 3.4. Edge of sidewalks.
- 3.5. Edge of asphalt or concrete drives, parking lots, etc.

3.6. Edge of concrete slabs.

3.7. Base of trees.

Article 4. Building and Site Elevations:

4.1. Spot elevations every 10'-0".

4.2. Contours at 1' interval.

Article 5. Utilities and Traffic Control Devices:

5.1. Location of all utilities and traffic control devices, i.e., water, gas, telephone, electrical, traffic, cable, control signals, streetlights, etc.

5.2. Manhole and intake locations and elevations; rims, grates, culverts, FES's, flow lines (size and direction of pipes), inverts, manhole bottoms, etc.

5.3. Water appurtenances; valve boxes, fire hydrants, connections, etc.

5.4. Utility characteristics; sizes, pressure types, materials, etc.

Article 6. Building Services; storm, sanitary, water, gas, electrical, data and communications:

6.1. All locations, alignments and sizes from field verification.

Article 7. Hard Copy (print) Drawing Requirements:

7.1. Drawings shall note all dimensions and elevations.

7.2. Show NORTH arrow and scale, with north to the top of the drawing.

7.3. Include legend symbols and abbreviations used on the drawing(s).

7.4. Spot elevations and paving floors or other hard surfaces shall be to the nearest 0.05' and to the nearest 0.1' on all other surfaces.

7.5. Contours at a 1.0' interval with elevation labels along each contour every 200' and/or at every property boundary.

7.6. Identify elevation datum and the location of a minimum of two permanent benchmarks at the site on the drawing. Use official City datum.

7.7. Identify a minimum of three horizontal control points with northing and easting coordinate points at the site on the drawing. Horizontal controls and coordinate system to match datum of previously completed surveys for the City.

-
- 7.8. The licensed Land Surveyor shall sign and seal each drawing sheet, certifying that to the best of the Surveyor's knowledge, information, and belief, all information thereon is true and accurately illustrated.
- 7.9. Survey drawing shall be drafted at 1" = 20' scale with all text labels and line types clearly legible. Any deviation from this drawing scale shall be approved by the landscape architect prior to survey completion. Survey drawing shall be formatted on a 30" x 42" drawing sheet size. Survey drawing shall include the Land Surveyors titleblock and be titled G02.01 SITE SURVEY with additional drawing sheets to be included as necessary to clearly document all existing conditions at the requested scale.

Article 8. Digital (DWG and PDF) Drawing Requirements:

- 8.1. All drawings shall be provided in digital DWG format of AutoCAD 2010 version and a PDF reproducible format.
- 8.2. All similar elements with the DWG drawing shall reside on an independent layer with an appropriate descriptive layer naming system with the layer name prefaced with a 'G-_____', i.e. layer name 'G-PAVEMENT-ROAD'.
- 8.3. Layers, objects, blocks, nested blocks, text attributes, and all other elements shall be classified as 'by layer' color and 'by layer' line type. No elements of the DWG drawing shall be classified as 'by object'.
- 8.4. All contours shall be unbroken/continuous "smart" polylines containing appropriate elevation/z-axis information with text labels along each contour every 200' and/or at every property boundary. All 5-foot contours shall reside on a single independent layer and all other 1-foot contours on a single independent layer.
- 8.5. The digital file must be a single dwg file and not rely on shx, shp, or similar files to create a reproducible PDF.

Article 9. Topographic Survey Deliverables:

- 9.1. One (1) official hard copy of the Land Surveyor signed and sealed completed Topographic Survey, as described in Section 7.
- 9.2. One (1) CD or USB flash drive containing DWG file of the completed Topographic Survey and a PDF the Land Surveyor signed and sealed completed Topographic Survey.

END OF REQUEST FOR PROPOSAL



CITY OF GRINNELL
520 Fourth Avenue
Grinnell, Iowa
50112-1947
Phone: 641-236-2600
Fax: 641-236-2626

MAYOR

DAN F. AGNEW
dagnew@grinnelliowa.gov

CITY COUNCIL

BYRON HUEFTLE-WORLEY
At-Large

JIM WHITE
At-Large

LEE STAROSKA
1st Ward

JO WRAY
2nd Ward

RACHEL BLY
3rd Ward

SHANE HART
4th Ward

ADMINISTRATION

RUSSELL L. BEHRENS
City Manager
rbehrens@grinnelliowa.gov

ALYSSA DEVIG
City Clerk/Finance Director
adevig@grinnelliowa.gov

KRISTINE STONE
City Attorney
kstone@ahlerslaw.com

Visit us at
www.grinnelliowa.gov

9-30-2025

RE: 325 6th Ave: Driveway Approach Request

Brian Altimier with Precision Concrete has requested an alteration be allowed to the driveway approach at 325 6th Avenue to allow for easier turning movements for the future owners of the property. The width of the approach is currently too narrow because of the flare, and reversing the flare will make it easier for vehicles to transition from the highway to the driveway. The intent is to not cut the curb so that costs can remain low, otherwise the work may not be able to be completed.

Respectfully,

Tyler Avis
Building and Planning Director

Below is a proposal of the alteration.



RESOLUTION NO. 2025-170

A RESOLUTION APPROVING CONTRACT CHANGE ORDER NO. 1 IN THE AMOUNT OF \$88,889.44 FOR A NET INCREASE TO THE CONTRACT WITH WRH, INC. FOR THE WATER TREATMENT PLANT PROJECT.

Commented [AD1]: Change Order No. 1 approved on 5/19/25
Resolution No. 2025-76 was never signed off on by the contractor,
thus the approval of the original Change Order No. 1 was premature.

WHEREAS, the City of Grinnell did enter into a contract with WRH, Inc. on December 2, 2024, for the Water Treatment Plant Project; and

WHEREAS, WRH, Inc. has submitted Contract Change Order No. 1 for a net increase in the contract of \$88,889.44; and

WHEREAS, the Project Engineer has reviewed the change order and recommends approval of Contract Change Order No. 1; and

NOW, THEREFORE, BE IT RESOLVED, by the City Council of Grinnell, Iowa, in regular session this 6th day of October 2025 that the contract amount has increased by \$88,889.44 in accordance with Contract Change Order No. 1 is hereby approved as executed.

Passed and approved this 6th day of October 2025.

Dan F. Agnew, Mayor

Attest:

Alyssa Devig, City Clerk/Finance Director

	CONTRACT CHANGE ORDER	Change Order Number:	001	
		MEC Project Number:	2022000116-003	
		Contract Date:	12/2/2024	
For Contracted Project:	Water System Improvements 2023 Water Treatment Plant	Date of Issuance:	10/1/2025	
		Effective Date:		
		Original Contract Price:	\$ 18,990,000.00	
Owner:	City of Grinnell	Current Contract Price:	\$ 18,990,000.00	
Contractor:	WRH, Inc.	Current Contingency Allowance:	\$ -	
		Current Substantial Completion Date:	12/15/2026	
You are hereby requested to comply with the following changes below from the original contracted plans and specifications.				
Description of Changes		ADJUSTMENT to Substantial Completion Date	DECREASE in Contract Price	INCREASE in Contract Price
1. CAR-1: Removal of two cistern structures and additional excavation 3-FT beneath clearwell to remove unsuitable materials.		12	\$ -	\$ 45,819.30
2. CAR-2: Removal of cistern structure, removal of concrete pad, and soil remediation of slurry pit.		4	\$ -	\$ 11,733.67
3. CAR-5: Furnish and installation of loose lintels for masonry openings.		-	\$ -	\$ 3,822.01
4. CAR-6: Furnish materials and construction of pipe trench sump drain in lieu of sump pump and associated piping, and adjustments to flush box.		-	\$ -	\$ 16,531.94
5. CAR-7: Relocation of Well 9 Stand-by Generator.		-	\$ -	\$ 18,324.00
6. CAR-8: Additional excavation to uncover damaged water main piping.		-	\$ -	\$ 1,658.52
7. CAR-10: Deduction for clearwell concrete testing services.		-	\$ 9,000.00	\$ -
		-	\$ -	\$ -
		-	\$ -	\$ -
		-	\$ -	\$ -
Totals:		16	\$ 9,000.00	\$ 97,889.44
Updated Substantial Completion Date:		12/31/2026		
Net Change to Contract Price:			\$ 88,889.44	
Updated Contract Price:			\$ 19,078,889.44	
Justification:	See attached PCO Breakdown.			
The Amount of the Contingency Allowance will be UNCHANGED by the Sum of:				N/A
Zero and 00/100 Dollars				
The Total Remaining Contingency Allowance including this and previous Change Orders will be:				N/A
Zero and 00/100 Dollars				
The Amount of the Contract will be INCREASED by the Sum of:				\$88,889.44
Eight-Eight Thousand, Eight Hundred and Eighty-Nine and 44/100 Dollars				
The Total Contract Price including this and previous Change Orders will be:				\$19,078,889.44
Nineteen Million, Seventy-Eight Thousand, Eight Hundred and Eighty-Nine and 44/100 Dollars				
The Contract Period provided for Substantial Completion will be INCREASED to:				12/31/2026
This Document will become a Supplement to the Contract dated 12/02/2024, and all Provisions will apply hereto.				
Requested By:	Colton Singbeil		Digitally signed by Colton Singbeil Date: 2025.10.01 10:08:52 -05'00'	
Recommended By:	Contractor:	WRH, Inc.	Date	
	Trent Wilson, P.E.		10/1/2025	
Accepted By:	Engineer:	McClure Engineering Co.	Date	
Approved by Funding Agency: (if applicable)	Owner:	City of Grinnell	Date	
This information will be used as a record of any changes to the Original Construction Contract.				

Project Change Order Justification Breakdown

For (Contract):		Project Documentation:	
Water System Improvements 2023 Water Treatment Plant		Change Approval Requests (1, 2, 5, 6, 7, 8, 10)	
Item	Description	Approved Requested Change Order Value	Comment
1	CAR-1: Removal of two cistern structures and additional excavation 3-FT beneath clearwell to remove unsuitable materials.	\$ 45,819.30	Two subsurface structures were encountered during excavation, requiring removal to provide suitable subgrade for the water treatment plant building foundation. Unsuitable material was encountered and removed under the clearwell footprint, and backfilled with granular material to provide a suitable subgrade for the clearwell. The approval of costs for the General Conditions line item is not recommended and has been removed from CAR-1
2	CAR-2: Removal of cistern structure, removal of concrete pad, and soil remediation of slurry pits.	\$ 11,733.67	Two subsurface structures were encountered during excavation, requiring removal to provide suitable subgrade for the water treatment plant building foundation. Two slurry pits from well-drilling operations were removed and replaced with suitable soils to provide suitable subgrade for the water treatment plant building foundation. The approval of costs for the General Conditions line item is not recommended and has been removed from CAR-2
3	CAR-5: Furnish and installation of loose lintels for masonry openings.	\$ 3,822.01	Furnish and install additional loose lintels for masonry openings as required and as indicated in the attached drawings.
4	CAR-6: Furnish materials and construction of pipe trench sump drain in lieu of sump pump and associated piping, and adjustments to flush box.	\$ 16,531.94	Furnish materials and construction of pipe trench sump drain in lieu of sump pump and associated piping to provide additional sump capacity.
5	CAR-7: Relocation of Well 9 Stand-by Generator.	\$ 18,324.00	Relocation of Well 9 Stand-by power generator to satisfy the conditions of the Construction Permit issued by Iowa Department of Natural Resources.
6	CAR-8: Additional excavation to uncover damaged water main piping.	\$ 1,658.52	City staff requested additional excavation to uncover damaged water main piping.
7	CAR-10: Deduction for clearwell concrete testing services.	\$ (9,000.00)	Deduction in Contract Price for clearwell concrete and shotcrete testing services which are included in the Contractor's Work. Clearwell concrete and shotcrete testing was performed by the City's third-party inspector.
	Totals	\$ 88,889.44	



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Project: Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa
CAR No.: 1 Rev 4 **DATE:** August 25, 2025 **Job No.:** 2402-001445
Reference: **Contract No.:** FS-79-24-DWSRF-0006

A Change in the scope of work is indicated below and Owner's prompt approval or rejection of this authorization is requested so that the material may be purchased and to prevent any delay in field operations.

Reason for Change:

- (X) Design Request (X) Field Condition
() Owner Request () Suggested by Contractor
() Other

1) Description of Change:

Additional work outside the original scope per unit pricing. Over-excavate Clearwell an additional 3' from Elevation 1005 to 1002, furnish and place Manatt's recycled Special backfill rock as backfill in the Clearwell 3'. Two remaining cistern removals near the Clearwell excavation, furnish and place Manatt's recycled Special backfill rock as backfill. This is not a firm price, as load tickets from Manatt's will confirm the final tonnage. Dewatering is included in this pricing. Milestone / substantial completion / final completion will adjust concurrently to the extended days requested. The City of Grinnell would only incur additional general conditions costs if work extends beyond the original contract deadline; however, all other line items included in this CAR will be charged as outlined. Please Advise

2) It is requested that the completion date be:

(X) extended / () reduced by 12 calendar days

3) Basis of Payment:

- a) (x) Firm price for performing this change along with attached supporting details is (X) increased by / () decreased by \$ 75,408.45
- b) () Unit Price \$ -
- c) () Change to be performed per unit prices in Contract \$ -
- d) () The time required to prepare and agree upon a detailed estimate prior to proceeding with the change would unduly delay job progress. The following is an approximate estimate to assist Owner in determining whether or not change should be made. If notified to proceed, a detailed estimate in the form agreed upon, with supporting details, will be submitted after receipt of said notice.

Approximate Estimate is: \$ -

FOR OWNER'S USE

() CHANGE WILL NOT BE MADE

PROCEED ON THE FOLLOWING BASIS:

- () Firm Price () Time and Material
() Estimate of Price () Change in Completion Date
() Unit Price in Contract () No Change

Comments:

WENDLER	Submitted	<u>8/25/2025</u>
		Date
Signature: <u>Colton Singbeil</u>		
By: Colton Singbeil		
Title: Project Manager		

Approved	<u> </u>
Date	
Signature: <u> </u>	
By: <u> </u>	
Title: <u> </u>	



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa

Date: August 25, 2025

1 Rev 4

Additional work outside the original scope per unit pricing. Over-excavate Clearwell an additional 3' from Elevation 1005 to 1002, furnish and place Manatt's recycled Special backfill rock as backfill in the Clearwell 3'. Two remaining cistern removals near the Clearwell excavation, furnish and place Manatt's recycled Special backfill rock as backfill. This is not a firm price, as load tickets from Manatt's will confirm the final tonnage. Dewatering is included in this pricing. Milestone / substantial completion / final completion will adjust concurrently to the extended days requested. The City of Grinnell would only incur additional general conditions costs if work extends beyond the original contract deadline; however, all other line items included in this CAR will be charged as outlined. Please Advise

	Quantity	Unit	Unit Rate	Line Total
Subcontractors				
Veith - Manatt's recycled Special backfill	709.8	ton	\$ 55.57	\$ 39,443.59
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			SUBTOTAL	\$ 39,443.59

Labor				
Project Manager	2.0	mhr	\$ 184.36	\$ 368.72
Asistant Project Manager	0.0	mhr	\$ 90.96	\$ -
Safety Professional	0.0	mhr	\$ 94.33	\$ -
Superintendent - ST	8.0	mhr	\$ 104.76	\$ 838.08
Superintendent - OT	0.0	mhr	\$ 157.14	\$ -
Foreman - ST	0.0	mhr	\$ 98.96	\$ -
Foreman - OT	0.0	mhr	\$ 148.44	\$ -
Carpenter - ST	0.0	mhr	\$ 98.96	\$ -
Carpenter - OT	0.0	mhr	\$ 148.45	\$ -
Operator (A) - ST	0.0	mhr	\$ 98.50	\$ -
Operator (A) - OT	0.0	mhr	\$ 147.75	\$ -
Operator (B) - ST	0.0	mhr	\$ 92.48	\$ -
Operator (B) - OT	0.0	mhr	\$ 138.72	\$ -
Laborer - ST	4.0	mhr	\$ 92.78	\$ 371.12
Laborer - OT	0.0	mhr	\$ 139.17	\$ -
ATV Driver - ST	0.0	mhr	\$ 92.48	\$ -
ATV Driver - OT	0.0	mhr	\$ 138.72	\$ -
Truck Driver - ST	0.0	mhr	\$ 92.48	\$ -
Truck Driver - OT	0.0	mhr	\$ 138.72	\$ -
			SUBTOTAL	\$ 1,577.92

Equipment (without operator)

Ineligible per 13.01 C.7

General Conditions	12	day	\$2,224.60	\$26,695.20
Skidloader - Tracked/Rubber Tire		Hr	\$55.47	\$0.00
End loader - Rubber Tire		Hr	\$117.88	\$0.00
Telehandler		Hr	\$76.27	\$0.00
Excavator - Mini		Hr	\$62.41	\$0.00
Excavator - 34,000 LB		Hr	\$97.08	\$0.00



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Excavator - 68,000 LB	Hr	\$194.15	\$0.00
Vacuum Excavator - Trailer	Hr	\$97.08	\$0.00
Vacuum Excavator - Truck	Hr	\$277.37	\$0.00
110 Crawler Crane	Hr	\$343.23	\$0.00
Dozer	Hr	\$124.81	\$0.00
Water Pump	30 Hr	\$49.00	\$1,470.00
Compactor	Hr	\$55.47	\$0.00
Ground Heater	Hr	\$13.87	\$0.00
GPS Base/Rover/ Machine Control	Hr	\$76.27	\$0.00
Truck	Hr	\$14.00	\$0.00
Flatbed Truck	Hr	\$69.34	\$0.00
Boom Truck	Hr	\$173.35	\$0.00
Pump Truck	Hr	\$362.56	\$0.00
Dump Truck	Hr	\$80.00	\$0.00
Semi & Trailer	Mi	\$3.47	\$0.00
		SUBTOTAL	\$26,695.20 \$1,470.00

Material

\$	-	\$	-
\$	-	\$	-
\$	-	\$	-
\$	-	\$	-
SUBTOTAL		\$	-

C.A.R. SUBTOTAL \$ ~~67,716.71~~
\$42,491.51

Overhead, Subcontractors	5.00%	\$	1,972.18
Overhead, Self-Performed	15.00%	\$	4,240.97
			\$457.19
		\$	73,929.85 \$44,920.88

Bond 2.00% \$ ~~1,478.60~~
\$898.42

Total Proposed Change \$ ~~75,408.45~~
\$45,819.30

Wendler is unable to propose change orders, which would create an operating loss. We must include a general condition cost that accurately represents the actual costs incurred for added time. The engineer may remove these costs from the CO breakdown they submit to us for signature. We can sign these documents, but Wendler reserves the right to make claim for additional costs associated with general conditions actually incurred.

Letter of Transmittal 1**Client:** City of Grinnell**Project No:** B2411209**Project:** Grinnell Water System Improvements Water Treatment**Date:** May 01, 2025Braun Intertec Corporation
3000 Justin Drive, Ste K
Urbandale, IA 50322**To:** Russ Behrens
City of Grinnell
520 4th Ave
Grinnell, IA 50112**Phone:****Email:****Re:** 703 Broad Street, Grinnell, IA 50112

Documents Sent	Comments
Daily Reports	Daily field notes 4-8-25
Special Inspections	Special inspection daily reports 1-4

Copy ListKeagan Richmond, City of Grinnell
Corey Falzone, McClure Engineering Co.
Jen Collens, McClure Engineering Co.
Michael Washburn, McClure Engineering Co.Trent Wilson, McClure Engineering Co.
Colton Singbeil, WRH, Inc.**Contact Information:**

Sent By: Robert Gabler

Email: RGabler@braunintertec.com

Phone: (515) 415-4459

Rev: 05/05/2014*Providing engineering and environmental solutions since 1957*

Special Inspection Daily Report

Urbandale

3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112

Activity Date: 04/04/2025**Technician:** Mason, Kyle**City of:** Grinnell, IA**Braun Intertec PM:** Robert Gabler**Report Number:** 1**Weather:** Partly cloudy 54

Coverage	Frequency	Notes
Special Cases	Periodic	

Architect/engineer authorized changes to approved plans?: **No**

Work Completed Description:

Observed soils from excavation at West side of proposed treatment plant structure. The contractor performed stripping of top soil and excavated the area to approximately 4 below top of pavement. Soils appeared to match the geotechnical report and were observed to be fat clays (loess). The contractor will continue removal of the soils to the over excavation depth prior to placing granular material under footings.

Tests Performed:

Excavation observations

Outstanding discrepancies on this project?: No**Report discussed with and sent to contractor?:** No**Activity Date:** 04/07/2025**Technician:** Mason, Kyle**City of:** Grinnell, IA**Braun Intertec PM:** Robert Gabler**Report Number:** 2**Weather:** Cloudy 57

Coverage	Frequency	Notes
Special Cases	Periodic	

Architect/engineer authorized changes to approved plans?: **No**

Work Completed Description:

Observed soils from excavation at West side of proposed treatment plant structure. The contractor removed previously observed loess material to an approximate depth of 15 below pavement. Observations were discussed with Bret Bender of Braun Intertec. The observed area appeared suitable for placement of granular backfill. A soil proctor was collected from the stockpile and returned to the lab for testing.

Tests Performed:

Excavation observations

Special Inspection Daily Report

Urbandale

3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112

Outstanding discrepancies on this project?: No

Report discussed with and sent to contractor?: No

To the best of our knowledge, work inspected was done in accordance with the approved plans, specifications and applicable workmanship provisions of the current IBC, except as noted above.



Kyle Mason

Special Inspection Daily Report

Urbandale

3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112

Activity Date: 04/30/2025

Technician: Techau, Nathaniel

City of: Grinnell, IA

Braun Intertec PM: Robert Gabler

Report Number: 3

Weather: Overcast 60

Time In: 09:00

Time Out: 13:00

Coverage	Frequency	Notes
Soils	Periodic	

Architect/engineer authorized changes to approved plans?: **No**

Work Completed Description:

Observed excavation in progress for soil correction beneath the proposed Water Treatment Plant Building. Upon arrival on site, observed existing fill soils were being excavated to elevation 1015 feet based on GPS elevation provided by the excavating contractor, Veith. Excavation for the interior trench in the western portion of the building pad had been completed previously. The attached Excavation Observation sketch shows the observed area outlined in green, and the area is also shown in attached Photo 1. Performed random hand auger borings and visual observations of the exposed excavation bottom soils at elevation 1015 ft.

Observed the existing fill soils being removed consisted of a mixture of sands and clays, occasionally containing brick and concrete debris. Observed debris-laden fill was removed, and that fill free of debris was removed and stockpiled to the north of the site for potential future re-use. Collected two samples of the stockpiled soils for laboratory Proctor testing.

Observed the excavation bottom soils generally consisted of native lean clay loess soils, brown and gray in color, and moist, and appearing consistent with the project Geotechnical Evaluation and Geotechnical Addendum, with the following exceptions:

A.) Two existing Cisterns or Former Wells consisting of circular brick walls, 8 feet in diameter, filled with sand were encountered at the approximate locations shown in the attached sketch. The northern cistern, labeled Well 1, was located approximately 50'W of the NE Building Corner, beneath the proposed Footings. The southern cistern, labeled Well 2 was located approximately 40'S, 30'W of the NE Building Corner, beneath proposed Interior Slab on Grade. Sand within Well 1 was moist and within Well 2 was wet. Well 1 is shown in the attached Photo 2.

B.) An area of soft wet sand was encountered in the west-central portion of the building pad. Soft soils appeared to extend to a depth of approximately 1 ½ feet, but extents of the area were unknown at the time of observation, as it was immediately adjacent to the edge of ongoing excavation. Further observation will be required.

C.) Along the east side of the site, west of new Well #10, two apparent "trenches" of very soft, wet, gray clay were encountered. These are shown in the attached Photo 3. Soft soils appeared to extend to depths of approximately 2 to 3 feet (approximate elevations 1012 to 1013 feet). The northern trench was approximately 9'x7' and southern trench was approximately 14'x25'.

Veith was informed of observed conditions. Observations were also discussed with Bret Bender, PE, of Braun Intertec, via phone. Recommended removal of the soft, wet, unsuitable soils (items B and C above) per the project Geotechnical Report and replacement with additional structural fill. Regarding the existing cisterns, representatives of WRH and McClure were notified via phone calls, with additional follow-up to occur the following day. The following preliminary recommendations were given:

1.) Due to proximity to the proposed Clear Well soil correction excavation and presence below proposed Footings, recommended removal of Cistern/Well 1 to the top of glacial till soils, and backfilling with granular structural fill, consistent with excavation for the Clear Well soil correction, per the Geotechnical Addendum.

2.) Recommended removing Cistern/Well 2 to a minimum of 3 feet below the bottom of the Interior Slab on Grade, and replacement of structural fill. Based on excavation to elevation 1015 feet, we understand that the Cistern was removed per this recommendation.

Excavation remains in progress. Scheduled additional observations for the following day.

Tests Performed:

Special Inspection Daily Report

Urbandale

3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112

Excavation Observations
Hand Auger Boring

Outstanding discrepancies on this project?: No

Report discussed with and sent to contractor?: No

Attachments

See Excavation Observation Sketch 04-30-25.pdf in the documents section at the end of this report.

See 04-30-25 Daily Report Photos 1 - 3.pdf in the documents section at the end of this report.

To the best of our knowledge, work inspected was done in accordance with the approved plans, specifications and applicable workmanship provisions of the current IBC, except as noted above.



Nathaniel Techau

Photo 1. Area of Excavation Observation, Looking Southwest



Photo 2. Existing Cistern/Well 1, Looking West

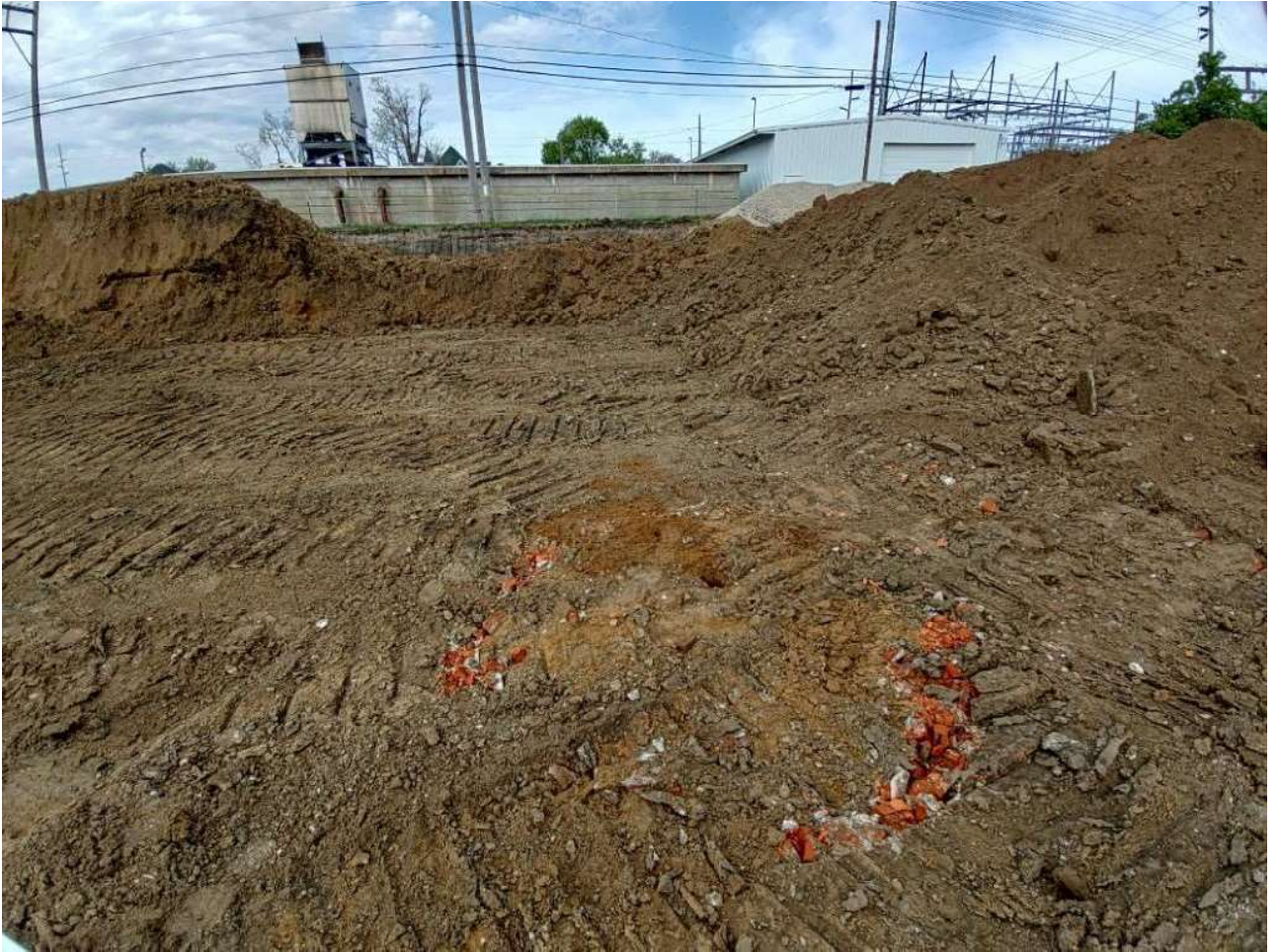


Photo 3. Approx. Extents Soft Wet Clays near Eastern Wall, Looking Southeast



Special Inspection Daily Report

Urbandale

3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112

Activity Date: 05/01/2025

Technician: Techau, Nathaniel

City of: Grinnell, IA

Braun Intertec PM: Robert Gabler

Report Number: 4

Weather:
overcast with occasional light sprinkles 55

Time In: 08:00

Time Out: 11:15

Coverage	Frequency	Notes
Soils	Periodic	

Architect/engineer authorized changes to approved plans?: **No**

Work Completed Description:

Observed excavation in progress for soil correction beneath the proposed Water Treatment Plant Building. Upon arrival on site, observed existing fill soils were being excavated to elevation 1015 feet based on GPS elevation provided by the excavating contractor, Veith. The attached Excavation Observation sketch shows the observed areas outlined in green and brown. Performed random hand auger borings and visual observations of the exposed excavation bottom soils at elevation 1015 feet.

Observed the excavation bottom soils generally consisted of native lean clay loess soils, brown and gray in color, and moist, and appearing consistent with the project Geotechnical Evaluation and Geotechnical Addendum.

Observed two areas of soft, wet soils observed the previous day (Item C in previous report) were excavated to a suitable subgrade of native lean clay. The attached photos show the areas following removal of the soft soils and following placement and compaction of structural fill to approximately elevation 1015 feet.

Per discussions with Bret Bender, PE, of Braun Intertec, a conference call had been held this morning regarding the observed existing Cisterns (Item A in previous report), with representatives from McClure, WRH, and Veith in attendance. The following recommendations were made to the project team, discussed, and clarified. The attached markup of Sheet WT-C3 also includes a summary of the recommendations for excavation and removal of the northern Cistern.

- 1.) Due to proximity to the proposed Clear Well soil correction excavation and presence below proposed Footings, recommended removal of Cistern/Well 1 to the top of glacial till soils, and backfilling with granular structural fill, consistent with excavation for the Clear Well soil correction, per the Geotechnical Addendum.
- 2.) Recommended removing Cistern/Well 2 to a minimum of 3 feet below the bottom of the Interior Slab on Grade, and replacement of structural fill. Based on excavation to elevation 1015 feet, we understand that the Cistern was removed per this recommendation.

Excavation and soil correction remains in progress.

Tests Performed:

Excavation Observation (visual)
Hand Auger Probes

Outstanding discrepancies on this project?: No

Report discussed with and sent to contractor?: No

Attachments

See 05-01-25 Excavation Observation Sketch and WT-C3 Markup.pdf in the documents section at the end of this report.

Excavation Observation Sketch and Sheet WT-C3 Markup

Urbandale

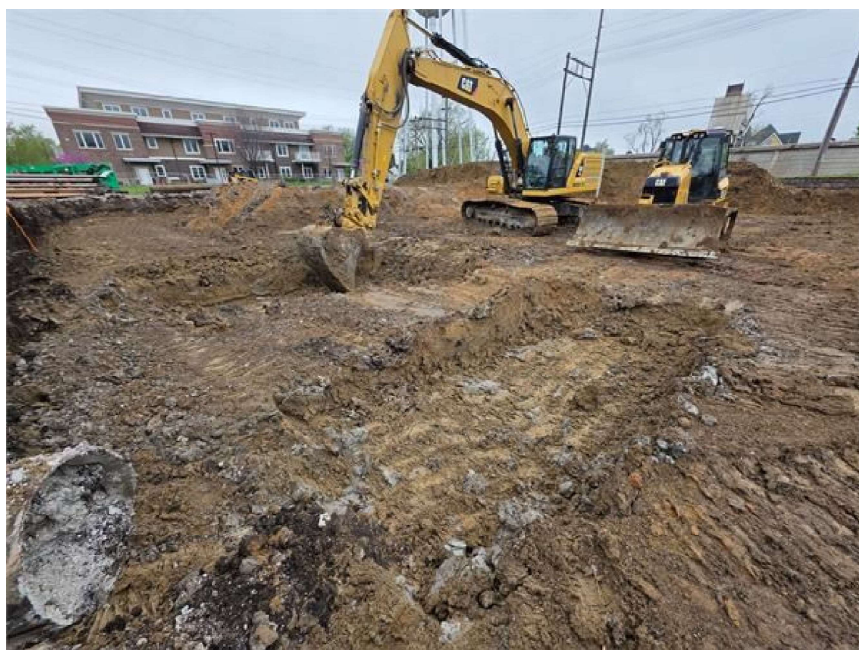
3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112



Soft Soils Removed from along Eastern Footing Line



Compacted Structural Fill Placed

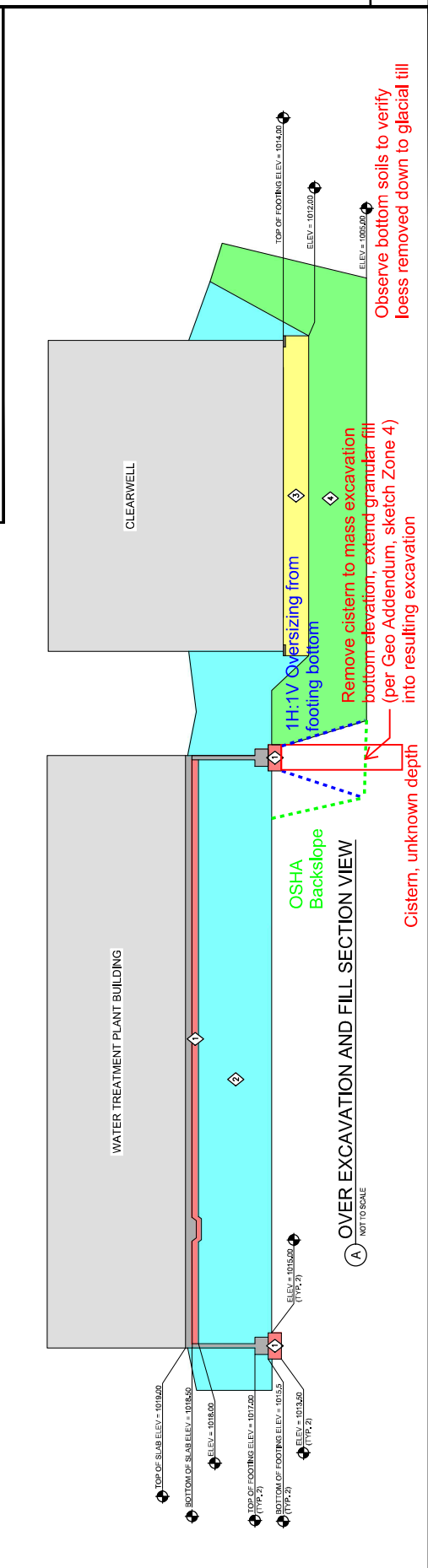
To the best of our knowledge, work inspected was done in accordance with the approved plans, specifications and applicable workmanship provisions of the current IBC, except as noted above.

Urbandale
3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:	Project:
City of Grinnell 520 4th Ave Grinnell, IA 50112	B2411209 Grinnell Water System Improvements Water Treatment 703 Broad Street Grinnell, IA 50112



Nathaniel Techau



Page 46 of 151

Daily Field Notes

Urbandale

3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112

Date: 04/08/2025**PM:** Robert Gabler**Technician:** Mason, Kyle**Temperature (F):** 64**Weather:** Partly Cloudly**Services Performed:** Sample Pickup

Sample Pick Up

Comments:

Picked up granular aggregate backfill sample to transport to the laboratory for testing.

Remarks / Comments

Were all scheduled activities completed: Yes**Were there any delays affecting our activities:** No

Kyle Mason



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Project: Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa
CAR No.: 2 Rev 2 **DATE:** August 25, 2025 **Job No.:** 2402-001445
Reference: **Contract No.:** FS-79-24-DWSRF-0006

A Change in the scope of work is indicated below and Owner's prompt approval or rejection of this authorization is requested so that the material may be purchased and to prevent any delay in field operations.

Reason for Change:

- (X) Design Request (X) Field Condition
() Owner Request () Suggested by Contractor
() Other

1) Description of Change:

Additional work outside the original scope of work. 5/7/25- Cistern (8' radius x 2' deep x 6" wide) removed in the south part of the building to 3' below the bottom of the footing. 5/6/25 Remove square concrete pad 15'x16'x6". 5/5/25 Core-out West slurry pit (25'x30'x3'). 5/1/25 Core-out East slurry pits two ea. (4'x17'x2' & 14'x25'x3.5'). Milestone / substantial completion / final completion will adjust concurrently to the extended days requested. The City of Grinnell would only incur additional general conditions costs if work extends beyond the original contract deadline; however, all other line items included in this CAR will be charged as outlined. Please Advise

2) It is requested that the completion date be:

(X) extended / () reduced by 4 calendar days

3) Basis of Payment:

- a) (x) Firm price for performing this change along with attached supporting details is (X) increased by / () decreased by **\$ 22,171.49**
- b) () Unit Price
- c) () Change to be performed per unit prices in Contract \$ -
- d) () The time required to prepare and agree upon a detailed estimate prior to proceeding with the change would unduly delay job progress. The following is an approximate estimate to assist Owner in determining whether or not change should be made. If notified to proceed, a detailed estimate in the form agreed upon, with supporting details, will be submitted after receipt of said notice.

Approximate Estimate is: \$ -

FOR OWNER'S USE

() CHANGE WILL NOT BE MADE

PROCEED ON THE FOLLOWING BASIS:

Comments:

- () Firm Price () Time and Material
() Estimate of Price () Change in Completion Date
() Unit Price in Contract () No Change

WENDLER	Submitted	<u>8/25/2025</u>
		Date
	Signature: <u>Colton Singbeil</u>	
	By: Colton Singbeil Title: Project Manager	

	Approved	
		Date
Signature: _____		
By: _____		
Title: _____		



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa

Date: August 25, 2025

2 Rev 2

Additional work outside the original scope of work. 5/7/25- Cistern (8' radius x 2'deep x 6" wide) removed in the south part of the building to 3' below the bottom of the footing. 5/6/25 Remove square concrete pad 15'x16'x6". 5/5/25 Core-out West slurry pit (25'x30'x3'). 5/1/25 Core-out East slurry pits two ea. (4'x17'x2' & 14'x25'x3.5'). Milestone / substantial completion / final completion will adjust concurrently to the extended days requested. The City of Grinnell would only incur additional general conditions costs if work extends beyond the original contract deadline; however, all other line items included in this CAR will be charged as outlined. Please Advise

	Quantity	Unit	Unit Rate	Line Total
Subcontractors				
Veith - Core-out West slurry pits	83	cy	\$ 55.60	\$ 4,615.00
Veith - Core-out East slurry pits	50	cy	\$ 72.60	\$ 3,630.00
Veith - Remove Square concrete pad	4	cy	\$ 246.25	\$ 985.00
Veith - Cistern (8' radius X 2" deep x 6" wide)	2	cy	\$ 590.54	\$ 1,092.50
			SUBTOTAL	\$ 10,322.50

Labor				
Project Manager	2.0	mhr	\$ 184.36	\$ 368.72
Asistant Project Manager	0.0	mhr	\$ 90.96	\$ -
Safety Professional	0.0	mhr	\$ 94.33	\$ -
Superintendent - ST	2.0	mhr	\$ 104.76	\$ 209.52
Superintendent - OT	0.0	mhr	\$ 157.14	\$ -
Foreman - ST	0.0	mhr	\$ 98.96	\$ -
Foreman - OT	0.0	mhr	\$ 148.44	\$ -
Carpenter - ST	0.0	mhr	\$ 98.96	\$ -
Carpenter - OT	0.0	mhr	\$ 148.45	\$ -
Operator (A) - ST	0.0	mhr	\$ 98.50	\$ -
Operator (A) - OT	0.0	mhr	\$ 147.75	\$ -
Operator (B) - ST	0.0	mhr	\$ 92.48	\$ -
Operator (B) - OT	0.0	mhr	\$ 138.72	\$ -
Laborer - ST	0.0	mhr	\$ 92.78	\$ -
Laborer - OT	0.0	mhr	\$ 139.17	\$ -
ATV Driver - ST	0.0	mhr	\$ 92.48	\$ -
ATV Driver - OT	0.0	mhr	\$ 138.72	\$ -
Truck Driver - ST	0.0	mhr	\$ 92.48	\$ -
Truck Driver - OT	0.0	mhr	\$ 138.72	\$ -
			SUBTOTAL	\$ 578.24

Equipment (without operator)				
General Conditions	4	day	\$2,224.60	\$8,898.40
Skidloader - Tracked/Rubber Tire		Hr	\$55.47	\$0.00
End loader - Rubber Tire		Hr	\$117.88	\$0.00
Telehandler		Hr	\$76.27	\$0.00
Excavator - Mini		Hr	\$62.41	\$0.00
Excavator - 34,000 LB		Hr	\$97.08	\$0.00

Ineligible per 13.01 C.7



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Excavator - 68,000 LB	Hr	\$194.15	\$0.00
Vacuum Excavator - Trailer	Hr	\$97.08	\$0.00
Vacuum Excavator - Truck	Hr	\$277.37	\$0.00
110 Crawler Crane	Hr	\$343.23	\$0.00
Dozer	Hr	\$124.81	\$0.00
Water Pump	Hr	\$49.00	\$0.00
Compactor	Hr	\$55.47	\$0.00
Ground Heater	Hr	\$13.87	\$0.00
GPS Base/Rover/ Machine Control	Hr	\$76.27	\$0.00
Truck	Hr	\$14.00	\$0.00
Flatbed Truck	Hr	\$69.34	\$0.00
Boom Truck	Hr	\$173.35	\$0.00
Pump Truck	Hr	\$362.56	\$0.00
Dump Truck	Hr	\$80.00	\$0.00
Semi & Trailer	Mi	\$3.47	\$0.00

SUBTOTAL ~~\$8,898.40~~
\$00.00

Material

\$	-	\$	-
\$	-	\$	-
\$	-	\$	-
\$	-	\$	-
SUBTOTAL		\$	-

C.A.R. SUBTOTAL \$ ~~19,799.14~~
\$10,900.74

Overhead, Subcontractors	5.00%	\$	516.12
Overhead, Self-Performed	15.00%	\$	1,421.50

~~\$86.74~~
\$21,736.76
~~\$11,503.60~~

Bond	2.00%	\$	434.74
------	-------	----	-------------------

~~\$230.07~~

Total Proposed Change \$ ~~22,171.49~~
\$11,733.67

Wendler is unable to propose change orders, which would create an operating loss. We must include a general condition cost that accurately represents the actual costs incurred for added time. The engineer may remove these costs from the CO breakdown they submit to us for signature. We can sign these documents, but Wendler reserves the right to make claim for additional costs associated with general conditions actually incurred.

Letter of Transmittal 2**Client:** City of Grinnell**Project No:** B2411209**Project:** Grinnell Water System Improvements Water Treatment**Date:** May 08, 2025Braun Intertec Corporation
3000 Justin Drive, Ste K
Urbandale, IA 50322**To:** Russ Behrens
City of Grinnell
520 4th Ave
Grinnell, IA 50112**Phone:****Email:****Re:** 703 Broad Street, Grinnell, IA 50112

Documents Sent	Comments
Density Tests	Compaction tests 1-2
Laboratory Tests	Proctors P-02 and P-03 Gradation for IaDOT Gradation #30 material Percent passing #200 Sieve P-02
Special Inspections	Special inspection daily reports 5-6

Copy ListKeagan Richmond, City of Grinnell
Corey Falzone, McClure Engineering Co.
Jen Collens, McClure Engineering Co.
Michael Washburn, McClure Engineering Co.Trent Wilson, McClure Engineering Co.
Colton Singbeil, WRH, Inc.**Contact Information:****Sent By:** Robert Gabler**Email:** RGabler@braunintertec.com**Phone:** (515) 415-4459**Rev:** 05/05/2014*Providing engineering and environmental solutions since 1957*

Special Inspection Daily Report

Urbandale

3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112

Activity Date: 05/05/2025

Technician: Mason, Kyle

City of: Grinnell, IA

Braun Intertec PM: Robert Gabler

Report Number: 5

Weather: Partly cloudy 72

Coverage	Frequency	Notes
Soils	Periodic	

Architect/engineer authorized changes to approved plans?: **No**

Work Completed Description:

Observed ongoing excavation for soil corrections within the south side of the proposed Treatment Building footprint. Existing fill was being removed down to approximately elevation 1015'. The attached sketch shows the approximate extent of the area of observation.

Performed random hand auger probes and visually observed the excavation bottom soils. Exposed soils typically consisted of native lean clays, brown, and moist, consistent with the project Geotechnical Report. However, an existing cistern and buried concrete slab were observed within the building footprint at the location shown in the attached sketch, and shown in attached Photo 1. The center of the cistern was measured by the contractor to be approximately 17'N, 62'W of the SE Building Corner.

Discussed observed conditions via phone call with Bret Bender, PE, of Braun Intertec. Based on the observations, Geotechnical Report, and previous recommendations, recommended removal of the existing cistern and slab to a minimum of 3 feet below the proposed Bottom of Footing elevation, and replacement with compacted structural fill.

Performed nuclear compaction tests at previously corrected areas within the treatment plant subgrade. Density testing resulted in 3-6% above optimum moisture with a max density of 96%. The test results did not meet the project specification of 98% compaction. Results were discussed with the Contractor, Dan of Veith, and Corey with McClure. Additional testing will be performed for areas that did not meet specifications.

Future observations and compaction retesting will be required as work progresses.

Tests Performed:

Excavation observations (visual)
Hand auger probes
Soil density testing (nuclear)

Outstanding discrepancies on this project?: No

Report discussed with and sent to contractor?: No

Attachments

Special Inspection Daily Report

Urbandale

3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112



Concrete slab and cistern, looking Northeast

See Excavation Observation Sketch 05-05-25.pdf in the documents section at the end of this report.

Excavation Observation Sketch 05-05-25

To the best of our knowledge, work inspected was done in accordance with the approved plans, specifications and applicable workmanship provisions of the current IBC, except as noted above.



Kyle Mason

Special Inspection Daily Report

Urbandale

3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112

Activity Date: 05/07/2025**Technician:** Mason, Kyle**City of:** Grinnell, IA**Braun Intertec PM:** Robert Gabler**Report Number:** 6**Weather:** Mostly sunny 70

Coverage	Frequency	Notes
Soils	Periodic	

Architect/engineer authorized changes to approved plans?: **No**

Work Completed Description:

Excavated soils below clear well tank were observed. At an elevation of 1003', glacial till was observed appearing to match borings from the geotechnical report. A soil sample was collected from excavated area and was brought to the lab for testing. The sample collected appeared to have native brown clay loess with some sand content.

The contractor had removed the previously observed concrete slab as shown on sketch from 5/5/25, and underlying soils appeared similar to the surrounding area. Removal of the South side cistern/well # 3 was observed to an elevation of 1012'. After discussions with onsite representatives with Veith, McClure, and WRH the location of the footing line is approximately 8' East the cistern and soils corrections in the area appeared to be suitable for the proposed structure.

The previously observed soft spot on from excavation extent on 4/30/25, located on the West side of building appeared to have been reworked by the contractor and the onsite vibratory roller passing over the area and pumping in the area was not noted.

Tests Performed:

Excavation observation - visual identification of soils at North side clear well tank and south side cistern)
Soil sample collection

Outstanding discrepancies on this project?: No**Report discussed with and sent to contractor?:** Yes**Attachments**

Urbandale

3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

Client:

City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:

B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112



Soils below clearwell tank looking Southwest

See Excavation Observation Sketch 05-05-25.pdf in the documents section at the end of this report.

Excavation observation reference sketch

To the best of our knowledge, work inspected was done in accordance with the approved plans, specifications and applicable workmanship provisions of the current IBC, except as noted above.

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Kyle Mason

Field Compaction Report

CT's 1-2
Report Date: 05/07/2025
Test Method: ASTM D6938

Client:
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520 4th Ave
Grinnell, IA 50112

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Test Results															
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Optimum Moisture Tolerance (%)	Remark
1		05/05/25	P-01	A	SC	11.6	115.5	18.0	108.2	127.7	12	94	98	-1 / 3	B
2		05/05/25	P-01	A	SC	11.6	115.5	15.1	110.5	127.2	12	96	98	-1 / 3	B
Test Information															
Test #	Test Location	Elevation	Reference	Gauge Specs				Gauge Standardization				Field Technician			
				Make / Model / SN / Calibrated	Density Standard	2073 / 711	2073 / 711								
1	Zone 2 Building Pad Fill: West side of water treatment building. See daily field notes for location details.	1,017.0	Sea level	Troxler / 3430 / 37823 / 12/19/2024				2073 / 711				Mason, Kyle			
2	Zone 2 Building Pad Fill: East side of water treatment building. See daily field notes for location details.	1,017.0	Sea level	Troxler / 3430 / 37823 / 12/19/2024				2073 / 711				Mason, Kyle			
Remarks				Comments											
B: Test results do not comply with specifications				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.											

Robert Gabler

Robert Gabler
05/07/2025

Standard Proctor M-D Relationship

ASTM D698

Report Date: 05/05/2025

Urbandale
3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

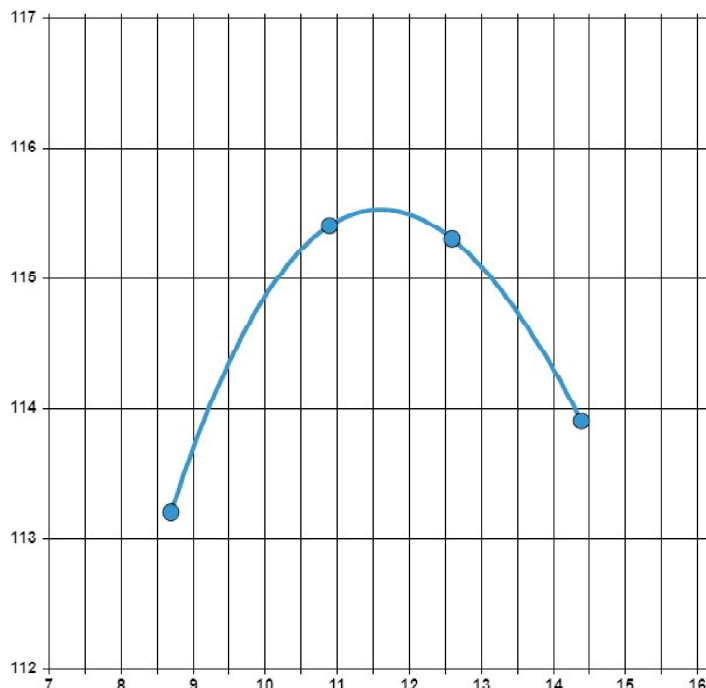
Client:
City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:
B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112

Sample Information

Sample Number:	652302	Sampled By:	Techau, Nathaniel
Sample From:	Stockpile		
Location Details:	Onsite Stockpile from Building Excavation		
Sample Date:	04/30/2025		
Received Date:	05/05/2025	Lab:	10576 Justin Drive, Urbandale, IA, 50322
Tested Date:	05/05/2025	Tested By:	Gabler, Robert

Laboratory Data



Proctor ID:	P-02-std		
Maximum Dry Density (pcf):	115.5		
Optimum Moisture (%):	11.6		
Method:	Method A		
Preparation Method:	Dry		
Rammer Type:	Manual Round		
Retained On 3/4 (%):	2	Retained On 3/8 (%):	3
Retained On #4 (%):	3	Passing #4 (%):	97

Classification: SC Clayey sand with gravel, Brown

General

Robert Gabler

Robert Gabler 05/05/2025

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Project:
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Sample Information

Sample Number: 652302 **Sampled By:** Techau, Nathaniel
Sample From: Stockpile
Location Details: Onsite Stockpile from Building Excavation
Sample Date: 04/30/2025
Received Date: 05/05/2025 **Lab:** 10576 Justin Drive, Urbandale, IA, 50322
Tested Date: 05/07/2025 **Tested By:** Gabler, Robert

Laboratory Data

Loss By Washing (%): 20 **Method Used:** Method A Soak In Water
Maximum Particle Size: 75 mm (3 inch) to 4.75 mm (No. 4)

General

Results: The test is for informational purposes.



Robert Gabler 05/08/2025

Standard Proctor M-D Relationship

ASTM D698

Report Date: 05/06/2025

Urbandale
3000 Justin Drive, Suite K
Urbandale, IA 50322
Phone: (319) 423-0322

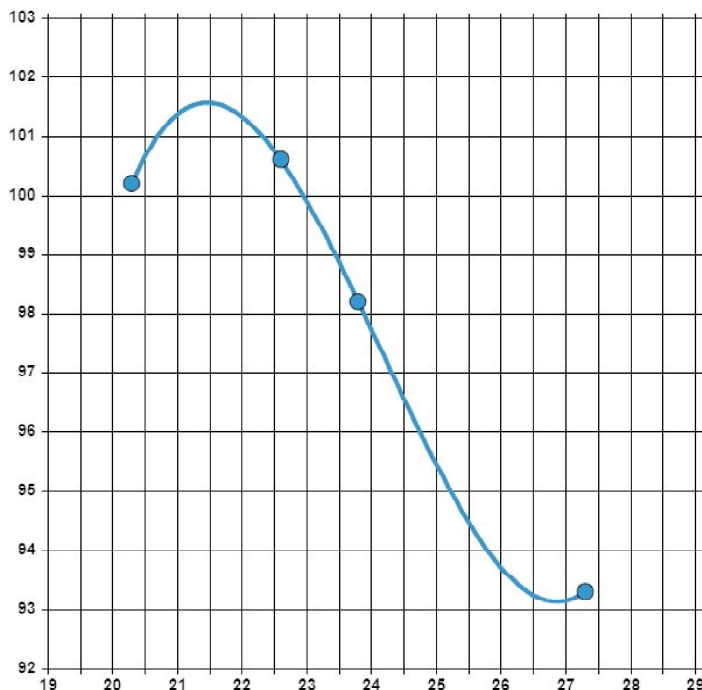
Client:
City of Grinnell
520 4th Ave
Grinnell, IA 50112

Project:
B2411209
Grinnell Water System Improvements Water
Treatment
703 Broad Street
Grinnell, IA 50112

Sample Information

Sample Number:	652673	Sampled By:	Mason, Kyle
Sample From:	Stockpile		
Location Details:	Onsite fill stockpile		
Sample Date:	04/07/2025		
Received Date:	05/06/2025	Lab:	10576 Justin Drive, Urbandale, IA, 50322
Tested Date:	04/14/2025	Tested By:	Gabler, Robert

Laboratory Data



Proctor ID:	P-03-std
Maximum Dry Density (pcf):	101.6
Optimum Moisture (%):	21.5
Method:	Method A
Preparation Method:	Dry
Rammer Type:	Manual Round
Retained On 3/4 (%):	0
Retained On 3/8 (%):	0
Retained On #4 (%):	0
Passing #4 (%):	100

Classification: , Dark brown/gray clay

General

Robert Gabler

Robert Gabler 05/06/2025

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Sample Information

Sample From: Stockpile **Sample Number:** 650334
Sample Date: 04/09/2025 **Sampled By:** Mason, Kyle
Location Details: Onsite Stockpile of Aggregate Backfill
Lab: 10576 Justin Drive, Urbandale, IA, 50322 **Received Date:** 04/11/2025
Tested Date: 04/18/2025 **Tested By:** Gabler, Robert

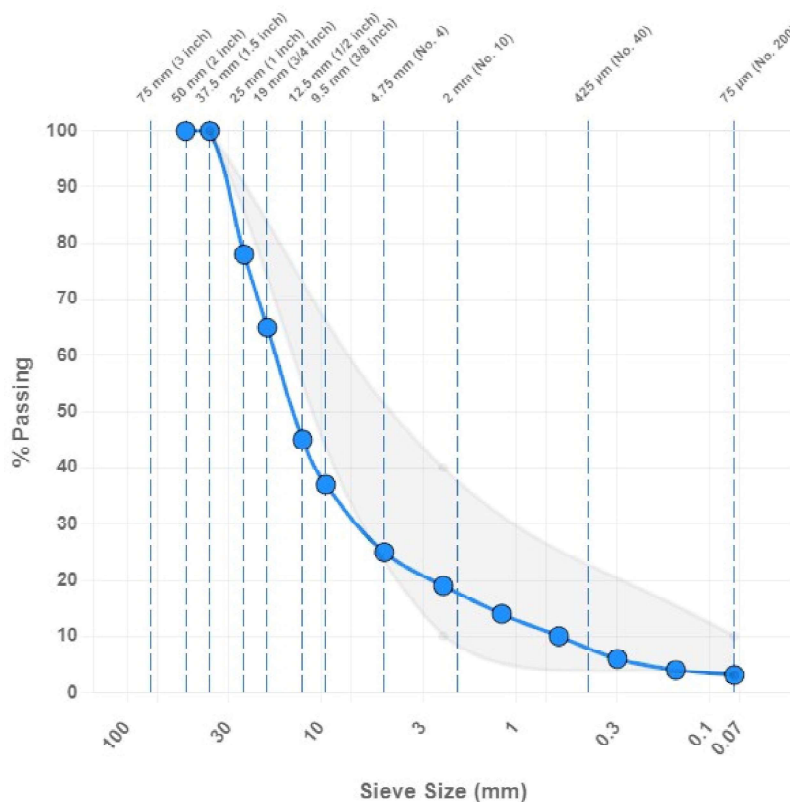
Laboratory Data

Sieve Size	Passing (%)	Specification
50 mm (2 inch)	100	
37.5 mm (1.5 inch)	100	100
25 mm (1 inch)	78	
19 mm (3/4 inch)	65	
12.5 mm (1/2 inch)	45	
9.5 mm (3/8 inch)	37	
4.75 mm (No. 4)	25	
2.36 mm (No. 8)	19	10 - 40
1.18 mm (No. 16)	14	
600 µm (No. 30)	10	
300 µm (No. 50)	6	
150 µm (No. 100)	4	
75 µm (No. 200)	3.1	3 - 10

#200 Wash Loss 2.6
ASTM C117 (%)

Gravel (%) 75.0 **Sand (%)** 21.9 **Silt & Clay (%)** 3.1

D₆₀ (mm): 17.38 **D₃₀ (mm):** 6.73 **D₁₀ (mm):** 0.60 **C_u:** 28.97 **C_c:** 4.34



General

Results: Pass - The above test results meet the referenced specifications.

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Robert Gabler 04/27/2025



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Project: Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa
CAR No.: 5 Rev 1 **DATE:** August 25, 2025 **Job No.:** 2402-001445
Reference: **Contract No.:** FS-79-24-DWSRF-0006

A Change in the scope of work is indicated below and Owner's prompt approval or rejection of this authorization is requested so that the material may be purchased and to prevent any delay in field operations.

Reason for Change:

- (X) Design Request () Field Condition
() Owner Request () Suggested by Contractor
() Other

1) Description of Change:

McClure requested the Addition of loose lintels for masonry openings. OAL - 7,5,3,1 (West Elevation), OAL - 9, 10 (North Elevation), OAL - 11 (East Elevation), OAL - 12 (South Elevation), D115.1 & D118.1 (North Elevation). Please Advise

2) It is requested that the completion date be:

(X) extended / () reduced by ____ calendar days

3) Basis of Payment:

- a) (x) Firm price for performing this change along with attached supporting details is (X) increased by / () decreased by **\$ 3,822.01**
- b) () Unit Price
- c) () Change to be performed per unit prices in Contract \$ -
- d) () The time required to prepare and agree upon a detailed estimate prior to proceeding with the change would unduly delay job progress. The following is an approximate estimate to assist Owner in determining whether or not change should be made. If notified to proceed, a detailed estimate in the form agreed upon, with supporting details, will be submitted after receipt of said notice.

Approximate Estimate is: \$ -

FOR OWNER'S USE

() CHANGE WILL NOT BE MADE

PROCEED ON THE FOLLOWING BASIS:

Comments:

- () Firm Price () Time and Material
() Estimate of Price () Change in Completion Date
() Unit Price in Contract () No Change

WENDLER	Submitted	<u>8/25/2025</u>
		Date
Signature: <u>Colton Singbeil</u>		
By: Colton Singbeil		
Title: Project Manager		

Approved	<u> </u>
Date	
Signature: <u> </u>	
By: <u> </u>	
Title: <u> </u>	



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa

Date: August 25, 2025

5 Rev 1

McClure requested the Addition of loose lintels for masonry openings.OAL - 7,5,3,1 (West Elevation), OAL - 9, 10 (North Elevation), OAL - 11 (East Elevation), OAL - 12 (South Elevation), D115.1 & D118.1 (North Elevation). Please Advise

	Quantity	Unit	Unit Rate	Line Total
Subcontractors				
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			SUBTOTAL	\$ -

Labor					
Project Manager	2.0	mhr	\$ 184.36	\$	368.72
Asistant Project Manager	0.0	mhr	\$ 90.96	\$	-
Safety Professional	0.0	mhr	\$ 94.33	\$	-
Superintendent - ST	0.0	mhr	\$ 104.76	\$	-
Superintendent - OT	0.0	mhr	\$ 157.14	\$	-
Foreman - ST	0.0	mhr	\$ 98.96	\$	-
Foreman - OT	0.0	mhr	\$ 148.44	\$	-
Carpenter - ST	10.0	mhr	\$ 98.96	\$	989.60
Carpenter - OT	0.0	mhr	\$ 148.45	\$	-
Operator (A) - ST	0.0	mhr	\$ 98.50	\$	-
Operator (A) - OT	0.0	mhr	\$ 147.75	\$	-
Operator (B) - ST	0.0	mhr	\$ 92.48	\$	-
Operator (B) - OT	0.0	mhr	\$ 138.72	\$	-
Laborer - ST	0.0	mhr	\$ 92.78	\$	-
Laborer - OT	0.0	mhr	\$ 139.17	\$	-
ATV Driver - ST	0.0	mhr	\$ 92.48	\$	-
ATV Driver - OT	0.0	mhr	\$ 138.72	\$	-
Truck Driver - ST	0.0	mhr	\$ 92.48	\$	-
Truck Driver - OT	0.0	mhr	\$ 138.72	\$	-
			SUBTOTAL	\$	1,358.32

Equipment (without operator)

General Conditions	day	\$2,224.60	\$0.00
Wendler Winter Conditions	day	\$2,000.00	\$0.00
Skidloader - Tracked/Rubber Tire	Hr	\$55.47	\$0.00
End loader - Rubber Tire	Hr	\$117.88	\$0.00
Telehandler	Hr	\$76.27	\$0.00
Excavator - Mini	Hr	\$62.41	\$0.00



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Excavator - 34,000 LB	Hr	\$97.08	\$0.00
Excavator - 68,000 LB	Hr	\$194.15	\$0.00
Vacuum Excavator - Trailer	Hr	\$97.08	\$0.00
Vacuum Excavator - Truck	Hr	\$277.37	\$0.00
110 Crawler Crane	Hr	\$343.23	\$0.00
Dozer	Hr	\$124.81	\$0.00
Water Pump	Hr	\$49.00	\$0.00
Compactor	Hr	\$55.47	\$0.00
Ground Heater	Hr	\$13.87	\$0.00
GPS Base/Rover/ Machine Control	Hr	\$76.27	\$0.00
Truck	Hr	\$14.00	\$0.00
Flatbed Truck	Hr	\$69.34	\$0.00
Boom Truck	Hr	\$173.35	\$0.00
Pump Truck	Hr	\$362.56	\$0.00
Dump Truck	Hr	\$80.00	\$0.00
Semi & Trailer	Mi	\$3.47	\$0.00
<i>SUBTOTAL</i>			<i>\$0.00</i>

Material

Bix Fabrications & Welding, Inc.	1	LS	\$ 1,900.00	\$ 1,900.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
<i>SUBTOTAL</i>			<i>\$ 1,900.00</i>	

C.A.R. SUBTOTAL ***\$ 3,258.32***

Overhead, Subcontractors	5.00%	\$ -
Overhead, Self-Performed	15.00%	\$ 488.75

\$ 3,747.07

Bond 2.00% \$ 74.94

Total Proposed Change **\$ 3,822.01**

	POTENTIAL PROJECT CHANGE REQUEST		PPC Number:	1
			MEC Project Number:	2022000116-003
			Date Requested:	3/19/2025
For Contracted Project:	Water System Improvements 2023 Water Treatment Plant			
				Potential Project Change Requested by:
Owner:	City of Grinnell	Contractor		
Contractor:	McClure Engineering Company	Engineer	X	
		Owner		
You are hereby requested to consider with the following changes below from the original contracted plans and specifications.				
Item #	Description of Requested Potential Change(s)	Requested DECREASE in Project Cost	Requested INCREASE in Project Cost	
1	Addition of loose lintels for masonry openings. Refer to the attached revised Drawing No. GN-06 for details.			
		Totals:		
Reason for Potential Project Change Request:	RFI Response		Request from Owner / Engineer	
	Site Conditions / Construction Issues		Other:	
Attached Justification:	Contractor Cost Analysis / Breakdown		Product Shop Drawings / Data (If Applicable)	
	Subcontractor / Supplier Documentation		Other:	
Submitted for Review and Approval by:				
Contractor:		Date		
Engineer / Owner Response to Potential Project Change Request				
Request Approved as Submitted		Revise and Resubmit as Commented Below	Request Rejected as Submitted	
Response Comments:				
Engineer:		Date		
McClure Engineering Co.				
Owner:		Date		

F. CONCRETE

1. Reinforced concrete shall have the following minimum 28 day compressive strengths:
- Slab on grade, unless noted otherwise 4000 psi normal weight
 - Foundations and Foundation Walls 5000 psi normal weight
2. All concrete exposed to weather shall have 6% (+/- 1%) air entrainment and a maximum water to cement (w/cm) ratio of 0.45.
3. Submit mix designs for all concrete mixes prior to placement. All submittals shall include the following:
- Batch quantities including admixture dosage rates.
 - Strength test results for trial mixes.
 - Aggregate source(s) and gradation(s).
 - Product data for cement, fly ash and other cementitious materials.
 - Product data for all admixtures.
4. Provide protection for reinforcing bars as follows:
- Concrete cast against and permanently exposed to earth 3"
 - Concrete exposed to earth and weather (formed)
 - #5 and smaller 1-1/2"
 - #6 and larger 2"
 - Concrete not exposed to weather and not in contact with ground:
 - Slabs and walls 3/4"
 - Beams and columns 1-1/2"
5. Provide PVC waterstops in all below grade construction joints and at other locations as shown.
6. Provide compressible filler and sealant in all slab-on-grade and wall and column interfaces that are not dowelled together.
7. All column pockets shall be filled with concrete after column is erected.
8. Conduit and pipes embedded in slabs, walls, or footings shall be no larger in outside dimension than 1/3 the overall member thickness and shall be placed no closer than 3 diameters or widths on center.
9. Provide concrete housekeeping pads under all mechanical, plumbing, fire protection, and electrical equipment per plans. Pads shall extend beyond equipment a nominal 6" on all sides. Apply a bonding agent to existing concrete slab prior to pouring of housekeeping pad. Provide reinforcing per details.
10. At floor drains, locally slope floor towards drain. See architectural and plumbing drawings for drain locations.
11. Foundation walls shall be temporarily braced until positive attachment is made to floor framing per details. This is a means and methods item.

G. REINFORCING FOR CONCRETE

1. General
- All reinforcing steel to be ASTM A615, Grade 60, deformed bars, unless noted otherwise.
 - Any reinforcing to be welded shall be ASTM A706 and welded with E80 electrodes.
 - Alternatively, ASTM A615 reinforcing may be welded with E90 electrodes and proper preheat according to AWS D1.4.
 - E70 electrodes are not permitted for welding rebar.
 - Welded wire fabric shall be plain wire conforming to ASTM A1064. Welded wire fabric shall be in flat sheets.
 - All reinforcing bars to be detailed and placed in accordance with the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" specifications.
 - All reinforcing, including dowels, shall be securely tied and cast with the lower member. Placing reinforcing after concrete has been placed will not be permitted.
 - Field bending of reinforcing partially embedded in concrete will not be allowed unless specifically noted on the drawings or approved by the Structural Engineer.
 - All reinforcing bars shall be contact lap spliced or dowelled as follows, unless noted otherwise:

Tension Development and Splice Lengths for $f_c = 4,000\text{psi}$

Bar Size	Development		Class "B" Splice		Standard 90 deg. Hook		
	Top Bar	Other Bar	Top Bar	Other Bar	Embed	Leg Length	Bend Dia.
#3	19	15	24	19	6	6	2-1/4
#4	25	19	32	25	7	8	3
#5	31	24	40	31	9	10	3-3/4
#6	37	29	48	37	10	12	4-1/2
#7	54	42	70	54	12	14	5-1/4
#8	62	48	80	62	14	16	6
#9	70	54	91	70	15	19	9-1/2
#10	79	61	102	79	17	22	10-3/4
#11	87	67	113	87	19	24	12
#14	105	81	---	---	32	31	18-1/4
#18	139	107	---	---	43	41	24

Tension Development and Splice Lengths for $f_c = 5,000\text{psi}$

Bar Size	Development		Class "B" Splice		Standard 90 deg. Hook		
	Top Bar	Other Bar	Top Bar	Other Bar	Embed	Leg Length	Bend Dia.
#3	17	13	22	17	6	6	2-1/4
#4	23	17	29	23	7	8	3
#5	28	22	36	28	9	10	3-3/4
#6	34	26	44	34	10	12	4-1/2
#7	49	38	63	49	12	14	5-1/4
#8	58	43	72	58	14	16	6
#9	63	48	81	63	15	19	9-1/2
#10	71	54	92	71	17	22	10-3/4
#11	78	60	102	78	19	24	12
#14	94	72	---	---	32	31	18-1/4
#18	125	96	---	---	43	41	24

1. Straight development and Class "B" splice lengths shown in above tables are based on uncoated bars assuming center-to-center bar spacing $\geq 3'd$, without ties or stirrups or $\geq 2'd$, with ties or stirrups, and bar clear cover $\geq 1.0'd$. Normal weight concrete as well as no transverse reinforcing are both assumed.
2. Standard 90 deg. hook embedment lengths are based on bar side cover $\geq 2.5"$ and bar end cover $\geq 2"$ without ties around hook.
3. For special seismic considerations, refer to ACI 318 Code Chapter 21.
4. All tension splices shall be Class "B" splices unless noted otherwise on plans.
- All welded wire fabric shall be lapped 12" or 48 wire diameters, whichever is greater.
 - Provide (2) #4 x 6'-0" diagonals at all corners of openings and re-entrant corners, unless noted otherwise.
 - Dowels between foundation and walls shall be installed and shall be the same grade, size, and spacing as the vertical wall reinforcing, unless noted otherwise.
 - Provide corner bars to match longitudinal reinforcing in all footings. Provide (2) corner bars at tee intersections.
5. Slabs and Slabs-on-Grade
- All slabs on grade to be reinforced with 6x6 - W2.9xW2.9 welded wire fabric, unless noted otherwise.

H. PRECAST CONCRETE

1. General
- The chemical room cap shall be prestressed concrete hollow-core planks designed in accordance with ACI 318-14 for the following superimposed loads. All precast concrete shall be designed for the loads indicated, and within the dimensional limits shown on the Architectural and Structural drawings, including handling and erection stresses.:
 - Dead Load: 15 psf
 - Live Load: 20 psf, 300 lb point (any location)
 - Fire rating shall be 1 hour.
 - Design Deviations
 - Design deviations will be permitted only after the Architect/Engineer's written approval of the manufacturer's proposed design supported by complete design calculations and drawings.
 - Design deviations shall provide an installation equivalent to the basic intent without incurring additional cost to the owner.
 - Shop drawings and calculations shall be prepared and submitted for review. Calculations shall bear the signature and seal of a professional engineer registered in the State of Iowa.
 - Test reports on concrete and other materials shall be submitted upon request.
2. Products
- Materials
 - Portland cement shall conform to ASTM C-150 Type I or Type III. Additives containing chlorides is not permitted.
 - Aggregates shall conform to ASTM C-33 or C-330
 - Grout shall achieve a minimum 28-day compressive strength of 3,000 psi. Grout consistency shall be such that joints can be completely filled but without seepage over adjacent surfaces. Any grout that seeps from the joint shall be completely removed before it hardens.
 - Reinforcing shall conform to ASTM A615
 - Steel cold drawn wire shall conform to ASTM A82
 - Prestressing strand shall be Grade 270k, uncoated, 7-wire, low relaxation steel, and conform to ASTM A416.
 - Bearing strips shall be engineered, non-leaching, high-density plastic that support loads with no visible overall expansion.
 - Manufacture
 - Hollow-core plank shall be machine-cast in 48-inch widths.
 - Manufacturing procedures and tolerances shall be in general compliance with PCI MNL 116.
 - Finishes: Bottom and top surface shall be flat and uniform as resulting from an extrusion process, without major chips, spalls and imperfections.

I. CONCRETE MASONRY

1. All construction shall comply with applicable provisions of the following latest ACI standards:
- ACI 530/ASCE 52/TMS 402 - Building Code Requirements for Masonry Structures.
 - ACI 530.1/ASCE 6/TMS 602- Specifications for Masonry Structures.
 - IBC Chapter 21 Masonry
2. Concrete block units shall conform to the requirements for Grade N Type 1, load-bearing normal-weight units per ASTM C-90. Use Grade S blocks below grade. All below grade block shall be solid grouted.
3. Net area compressive strength of masonry, $f_m = 2,500\text{ psi}$.
4. Standard units shall have nominal face dimensions of 16 x 8 inches high. The minimum compressive strength of the masonry units shall be as follows:

Net Area Compressive Strength Of Masonry (f_m psi)	Net Area Compressive Strength Of Concrete Masonry Units (psi)	
	Type M or S mortar	Type N mortar
2,000	2000	2650
2,500	3250	4350
3,000	4500	---

5. Mortar for unit masonry shall be proportioned have the properties per ASTM C270.
6. Grout for unit masonry shall be proportioned per ASTM C476. The minimum grout compressive strength is the larger of 2,000 psi or f_m .
7. Maximum coarse aggregate size is 3/8".
8. Reinforce all CMU walls with vertical rebar full height, centered in cell as shown on the drawings. Grout reinforced cells solid.
- When reinforcing is not specified, provide #4 @ 120" o.c., minimum.
9. All vertical cells to be filled shall have vertical alignment to maintain an unobstructed cell area not less than 2 in. x 3 in.
10. All bond beams shall be grouted solid and reinforced.
- Provide bent dowels at all wall intersections - one per bond beam at corners, and two at tee intersections.
 - When reinforcing is not specified, provide (1) #4, minimum.
 - Spacing of bond beams shall be 120", maximum.
 - Provide bond beams at all walls supporting roof and floor slabs.
11. Grout solid under all beams and lintels for full height of wall.
12. All masonry walls shall have ladder type horizontal joint reinforcement with two W1.7 wires spaced at 16" o.c. vertically, unless noted otherwise.
- All wall intersections shall be reinforced with prefabricated tee or corner units.
13. Maximum grout lift = 5'-4". Alternative methods of grouting may be acceptable. Submit method for review and approval.
14. Masonry reinforcing lap lengths shall be as follows:

Bar Size	Masonry Strength, f_m (psi)		
	2,000	2,500	3,000
#3	12"	12"	12"
#4	18"	16"	15"
#5	28"	25"	23"
#6	52"	46"	42"
#7	63"	63"	57"
#8	72"	72"	72"
#9	82"	82"	82"

Notes:

1. Development length is based on 2% masonry cover for all bars. Use bar spacers to maintain cover.
15. Brace all masonry walls until floor and roof framing and metal deck are installed.
- Design and installation of bracing is the responsibility of the masonry contractor.
 - Submit bracing plan for review.
16. When grouting is stopped for more than one hour, horizontal construction joints shall be formed by stopping the pour of grout 1-1/2" below the top of the uppermost course.
17. Provide control joints in wall every 40 ft. Provide vertical reinforcing in first cell each side of control joint. Do not locate control joint within 2'-0" of end or opening.
18. Conduit pipes and sleeves in masonry shall not displace more than 2 percent of the net cross-sectional area and shall be placed no closer than 3 diameters or widths on center.
19. Cells of ungrouted exterior walls shall be insulated per Architecture drawings.
20. CMU coursing shown in section and details is not representative of the actual coursing of the CMU. Contractor shall anticipate that CMU masonry forming openings and top of walls are not full block height.

J. STRUCTURAL STEEL

1. Materials:
- Materials shall conform to the following, unless noted otherwise.
 - Rolled WF shapes ASTM A992
 - Plates and Angles ASTM A36
 - Channels ASTM A36
 - HSS: Rectangular ASTM A500 Gr. C
 - HSS: Round ASTM A500 Gr. C
 - Bolts ASTM F3125
 - All bolts shall be Grade A325 or F1852, UNO
 - Bolts designated as "A490" shall be Grade A490 or F2280
 - Nuts ASTM A563 DH or A194
 - Washers ASTM F436
 - Anchor Bolts ASTM F1554 Grade 36 U.N.O.
 - Threaded Rod ASTM A36
 - Studs ASTM A108, Type B Nelson headed shear stud connectors or equal.
 - Electrodes Matching weld metal, 70 ksi minimum strength.
 - Finishes:
 - Prepare all surfaces that will be exposed in accordance with SSPC SP3 "Power Tool Cleaning".
 - Do not prime surfaces to be fireproofed, field welded, in contact with concrete, or high-strength bolted.
 - All exterior steel components exposed to view or weather shall be galvanized in accordance with ASTM A123.
 - All exterior welded connections shall be cold galvanized in accordance with ASTM A780.
2. Fabricator:
- Steel Fabricator shall be AISC Certified.
 - Structural members shall be detailed, fabricated, and erected in accordance with the latest edition AISC 303 "Code of Standard Practice for Steel Buildings and Bridges."
 - Structural steel fabrication drawings must be submitted to the engineer of record for review prior to fabrication.
3. Connections:
- Bolted Connections:
 - Minimum bolt diameter shall be 3/4".
 - All non-slip-critical connections shall be typical bearing type. Oversized or slotted holes are not permitted unless indicated on the drawings.
 - Welded Connections:
 - All fillet welds shall be sized according to AISC minimums, but never less than 3/16" U.N.O.
 - All welds shall be performed in accordance with the latest edition of AWS D1.1 "Structural Welding - Steel."
4. Erection:
- All structural steel to be fabricated and erected in accordance with the latest AISC specifications.
 - It is the responsibility of the Contractor to ensure the structure is maintained in a safe, stable configuration at all times.
 - Any shoring required shall be submitted with engineering calculations for review.
 - Selection of steel members not specifically shown on the drawings is prohibited without prior approval from the engineer.
5. Steel Lintels
- Loose lintels for masonry at all openings shall be the following, one angle per 4" wythe of masonry:
 - 1.5x3-1/2x5/16 LLV for spans less than 6'-0"
 - Lintels shall bear 8" minimum each end.
 - Lintels carrying brick shall be galvanized.
 - See architectural drawings for elevations and sizes of openings.

K. STEEL JOISTS

1. All steel joists to be fabricated and erected in accordance with latest Steel Joist Institute (SJI) specifications.
2. Joist manufacturer shall be a member of the Steel Joist Institute.
3. Refer to SJI specifications for erection procedures concerning stability, handling, end connections, and timing of load placement.
4. Coordinate joist layout w/ Architectural and Mechanical drawings to lay out joists such that they do not conflict with plumbing or electrical systems or other floor and roof penetrations.
5. Provide horizontal or diagonal type bridging for all joists as required by SJI specification and as indicated on the drawings. The ends of all bridging lines terminating at beams shall be anchored thereto at top and bottom chords. Provide all required bridging anchors.
- Coordinate bridging design with Architectural and Mechanical drawings such that bridging does not interfere with ductwork or other equipment.
6. Steel joists without specified chord size or designated as SP shall be designed by the joist manufacturer for superimposed loads shown on the drawings.
7. Align all steel joist panel points to permit passage of ductwork.
8. Joists shall be welded or bolted to supporting steel, with minimum bearing as noted below, unless special bearing ends are provided with a positive welded or bolted connection.
- K Joists: (2) 1/8"x1" fillet welds or (2) 1/2" dia. A307 bolts with 2 1/2" min. brg on steel or 4" brg on masonry.
 - LH & DLH Joists: (2) 1/4x2" fillet welds or (2) 3/4" dia. A307 bolts with 4" min. brg on steel or 6" brg on masonry.
 - Joist Girders: Same as for LH and DLH joists.
9. Refer to SJI specifications for required bolted bearing connections, erection stability, bolted diagonal bridging requirements at the row of bridging nearest midspan, and for maximum spans of certain joists.
- Coordinate requirements for bolted joist connections with steel fabricator.
10. The use of any equipment weighing over 150 pounds for installation of roofing is prohibited without prior approval from the Engineer. Request MUST be made prior to shop drawing submittal to be considered.

L. STEEL ROOF DECK

1. General:
- Install steel deck according to procedures outlined in the latest edition of the "SDI Manual of Construction with Steel Deck" published by the Steel Deck Institute. One copy shall be maintained on site.
 - All steel roof deck shall be welded to supporting beams and joists and erected in accordance with manufacturer's latest recommendations.
 - Deck shall be continuous over 3 spans, unless noted otherwise.
 - Provide welds or screws at parallel edges equal to specified fastening as supports. Fasten to all parallel supports - both at edges and in the field of the deck. Raise steel supports or provide shims at weld points if the deck valley does not engage the support.
 - Provide welding washers as required by manufacturer's recommendations.
 - All miscellaneous accessories - pour stops, column closures, etc. - will be installed in accordance with mfg recommendations and the Steel Deck Institute.
 - The use of any equipment weighing over 150 pounds for installation roofing is prohibited without prior approval from the Engineer. Request MUST be made prior to submittal of shop drawings for deck and supporting structure to be considered.
2. Roof Deck:
- Roof deck properties shall be as follows based on deck type indicated on plans:
 - 1 1/2" wide rib 20 Ga.: $t_{min} = 0.0358"$, $I_y = 0.197\text{ in}^4/\text{ft}$, $I_x = 0.217\text{ in}^4/\text{ft}$, $S_y = 0.224\text{ in}^3/\text{ft}$, $S_x = 0.229\text{ in}^3/\text{ft}$, and $F_y = 50\text{ ksi}$
 - Roof deck shall be phosphatized / painted unless noted. Coordinate with roof system - galvanized deck is required for some insulating concrete roof systems.
 - Roof deck shall be welded to supports with 5/8" $\emptyset$ puddle welds and fastened at sidelaps with #10 screws as follows:
 - 1.5B: 36/4 Weld pattern w/ 2 sidelap fastener per span



1360 NW 121st Street
Clive, Iowa 50325
P 515-964-1229
F 515-964-2370

Ankeny, IA | Carroll, IA | Clive, IA
Cedar Rapids, IA | Fort Dodge, IA
Coralville, IA | Sioux City, IA
Macon, MO | Columbia, MO
North Kansas City, MO
Lenexa, KS

NOTICE:
McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans and Specifications.

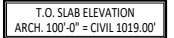
IOWA CERTIFICATE OF
AUTHORITY NO. 26887

REVISIONS
CHANGE ORDER #1 (MARCH 2025)

PROJECT INFO
2022000116-003
MARCH 12, 2025
ENGINEER WOC DRAWN BY CEL CHECKED BY ZHC

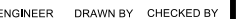
WATER SYSTEM IMPROVEMENTS 2023
WATER TREATMENT PLANT
GRINNELL, IOWA
GENERAL STRUCTURAL NOTES

3/16"=1'=0" (FULL SIZE)
3/32"=1'=0" (HALF SIZE)



If any others are needed at other locations, please advise.

3/16"=1'=0" (FULL SIZE)
3/32"=1'=0" (HALF SIZE)



EXTERIOR ELEVATIONS

REVISIONS

PROJECT INFO
2022000116-003
09/12/2024

ENGINEER DRAWN BY CHECKED BY

WATER SYSTEM IMPROVEMENTS 2023
WATER TREATMENT PLANT
GRINNELL, IOWA

EXTERIOR ELEVATIONS

DRAWING NO. WT-A8 SHEET NO. 78/158



- A. ALL MECHANICAL PENETRATION TO BE ALIGNED HORIZONTALLY WHEN POSSIBLE AND TO ALIGN WITH BRICK COURSING.
- B. M.E.P. FACADE PENETRATIONS TO BE COORDINATED WITH M.E.P. CONTRACTOR; QUANTITY, SIZES, AND FLASHING REQUIREMENTS.

C EXTERIOR ELEVATION - WEST
 3/16"=1'=0" (FULL SIZE)
 3/32"=1'=0" (HALF SIZE)



WALL PENETRATION LOCATIONS

This architectural floor plan illustrates the locations of wall penetrations across a building layout. The plan is divided into several rooms and corridors, with various wall types and openings indicated by different symbols and colors.

Penetration Types and Callouts:

- Doors:** Indicated by red 'X' marks with callouts such as "DOOR 12' 0\"/>



www.cornstates.com

Project Title

Grinnell WTP
Wall Hole Locations

[illegible]

General HVAC Notes:

Drawn by: N. VOSHELL D.O.C.
Date: 04/23/2025
Approved:
Scale Size: 1/4"=1'-0"

Project Number

18666

Prime Contractor:

KEY PLAN

Detailed Area:

OVERALL

Sheet Number

From: [Elijah Bix](#)
To: [Colton Singbeil](#)
Subject: Re: FW: 1445 - Potential Project Change Request 1
Date: Thursday, May 15, 2025 2:21:41 PM

Sorry, 1,900.00. Typed it out wrong

On Thu, May 15, 2025 at 2:19 PM Elijah Bix <elijah.bixfab@gmail.com> wrote:

Adding L5x3 1/2" x 5/16" HDG loose lintels
8 - HVAC openings
2 - walk in single doors

1,800.00

Thanks

On Fri, Apr 25, 2025 at 11:46 AM Colton Singbeil <CSingbeil@wendlerinc.com> wrote:

FYI



Colton Singbeil

Project Manager

W:319.622.3816

C:319.721.8991

csingbeil@wendlerinc.com

From: Colton Singbeil
Sent: Wednesday, April 16, 2025 1:58 PM
To: Elijah Bix <elijah.bixfab@gmail.com>; Jon Bix <bixfab60@gmail.com>
Cc: Joe Smith <jsmith@wendlerinc.com>; Bud Maynard <bmaynard@wendlerinc.com>
Subject: 1445 - Potential Project Change Request 1

Elijah & Jon,

Can you please look into this and get back with WRH in the change the engineer is requesting

compared to your submittal package and bid documents.

Thanks,



Colton Singbeil

Project Manager

W:319.622.3816

C:319.721.8991

csingbeil@wendlerinc.com

NOTICE: This email originated from outside of the organization. Do not click links, obey instructions or open attachments unless you can validate the sender and know the content is safe.



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Project: Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa
CAR No.: 6 Rev 1 **DATE:** August 25, 2025 **Job No.:** 2402-001445
Reference: **Contract No.:** FS-79-24-DWSRF-0006

A Change in the scope of work is indicated below and Owner's prompt approval or rejection of this authorization is requested so that the material may be purchased and to prevent any delay in field operations.

Reason for Change:

- (X) Design Request () Field Condition
() Owner Request () Suggested by Contractor
() Other

1) Description of Change:

Items 1 through 4 on the Project Change Request 2 from McClure. Please Advise

2) It is requested that the completion date be:

(X) extended / () reduced by ____ calendar days

3) Basis of Payment:

- a) (x) Firm price for performing this change along with attached supporting details is (X) increased by / () decreased by **\$ 16,531.94**
- b) () Unit Price
- c) () Change to be performed per unit prices in Contract \$ -
- d) () The time required to prepare and agree upon a detailed estimate prior to proceeding with the change would unduly delay job progress. The following is an approximate estimate to assist Owner in determining whether or not change should be made. If notified to proceed, a detailed estimate in the form agreed upon, with supporting details, will be submitted after receipt of said notice.

Approximate Estimate is: \$ -

FOR OWNER'S USE

() CHANGE WILL NOT BE MADE

PROCEED ON THE FOLLOWING BASIS:

- () Firm Price () Time and Material
() Estimate of Price () Change in Completion Date
() Unit Price in Contract () No Change

Comments:

WENDLER	Submitted	<u>8/25/2025</u>
		Date
Signature: <u>Colton Singbeil</u>		
By: Colton Singbeil		
Title: Project Manager		

Approved	<u> </u>
Date	
Signature: <u> </u>	
By: <u> </u>	
Title: <u> </u>	



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa

Date: August 25, 2025

6 Rev 1

Items 1 through 4 on the Project Change Request 2 from McClure. Please Advise

	Quantity	Unit	Unit Rate	Line Total
Subcontractors				
Corn States Metal	1	LS	\$ 7,576.05	\$ 7,576.05
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			<i>SUBTOTAL</i>	<i>\$ 7,576.05</i>

Labor				
Project Manager	2.0	mhr	\$ 184.36	\$ 368.72
Asistant Project Manager	0.0	mhr	\$ 90.96	\$ -
Safety Professional	0.0	mhr	\$ 94.33	\$ -
Superintendent - ST	0.0	mhr	\$ 104.76	\$ -
Superintendent - OT	0.0	mhr	\$ 157.14	\$ -
Foreman - ST	8.0	mhr	\$ 98.96	\$ 791.68
Foreman - OT	2.0	mhr	\$ 148.44	\$ 296.88
Carpenter - ST	0.0	mhr	\$ 98.96	\$ -
Carpenter - OT	0.0	mhr	\$ 148.45	\$ -
Operator (A) - ST	8.0	mhr	\$ 98.50	\$ 788.00
Operator (A) - OT	2.0	mhr	\$ 147.75	\$ 295.50
Operator (B) - ST	0.0	mhr	\$ 92.48	\$ -
Operator (B) - OT	0.0	mhr	\$ 138.72	\$ -
Laborer - ST	8.0	mhr	\$ 92.78	\$ 742.24
Laborer - OT	2.0	mhr	\$ 139.17	\$ 278.34
ATV Driver - ST	0.0	mhr	\$ 92.48	\$ -
ATV Driver - OT	0.0	mhr	\$ 138.72	\$ -
Truck Driver - ST	0.0	mhr	\$ 92.48	\$ -
Truck Driver - OT	0.0	mhr	\$ 138.72	\$ -
			<i>SUBTOTAL</i>	<i>\$ 3,561.36</i>

Equipment (without operator)				
General Conditions	day		\$2,224.60	\$0.00
Wendler Winter Conditions	day		\$2,000.00	\$0.00
Skidloader - Tracked/Rubber Tire	Hr		\$55.47	\$0.00
End loader - Rubber Tire	Hr		\$117.88	\$0.00
Telehandler	Hr		\$76.27	\$0.00
Excavator - Mini	Hr		\$62.41	\$0.00



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Excavator - 34,000 LB	10	Hr	\$97.08	\$970.80
Excavator - 68,000 LB		Hr	\$194.15	\$0.00
Vacuum Excavator - Trailer		Hr	\$97.08	\$0.00
Vacuum Excavator - Truck		Hr	\$277.37	\$0.00
110 Crawler Crane		Hr	\$343.23	\$0.00
Dozer		Hr	\$124.81	\$0.00
Water Pump		Hr	\$49.00	\$0.00
Compactor		Hr	\$55.47	\$0.00
Ground Heater		Hr	\$13.87	\$0.00
GPS Base/Rover/ Machine Control		Hr	\$76.27	\$0.00
Truck		Hr	\$14.00	\$0.00
Flatbed Truck		Hr	\$69.34	\$0.00
Boom Truck		Hr	\$173.35	\$0.00
Pump Truck		Hr	\$362.56	\$0.00
Dump Truck		Hr	\$80.00	\$0.00
Semi & Trailer		Mi	\$3.47	\$0.00
			<i>SUBTOTAL</i>	<i>\$970.80</i>

Material

County Material - Flush Box	1	LS	\$ 930.30	\$ 930.30
Rebar	1	LS	\$ 200.00	\$ 200.00
Pipe Material	1	LS	\$ 1,000.00	\$ 1,000.00
Concrete Encasement	2	CY	\$ 257.00	\$ 514.00
			<i>SUBTOTAL</i>	<i>\$ 2,644.30</i>

C.A.R. SUBTOTAL **\$ 14,752.51**

Overhead, Subcontractors	5.00%	\$ 378.80
Overhead, Self-Performed	15.00%	\$ 1,076.47

\$ 16,207.78

Bond 2.00% \$ 324.16

Total Proposed Change **\$ 16,531.94**



CORN STATES METAL FABRICATORS, INC.

1323 MAPLE STREET • PO BOX 65635 • WEST DES MOINES, IA 50265

PH. (515) 225-7961 • FAX (515) 225-9382 • E-MAIL csmf@cornstates.com

05/23/2025

RE: Grinnell Water System Improvements
PPC-2 Remove sump pump & 2" piping, add Sump Pit, sump drain, & 12" PVC piping within 5'-0 of the building.
Indianola, IA

Gentlemen,

We propose to provide the following materials, equipment & services:

- Addition of Sump Pump Pit at the north end of the pipe trench. Refer to the attached revised Drawing Nos. WT-S1 and WT-S5 for details.
- Removal of Sump Pump and associated 2" piping from the south end of pipe trench. Refer to the attached revised Drawing No. WT-D1 for details.
- Addition of a Sump Drain and 12" PVC piping connecting the new Sump Drain to the Well Flush Box. Refer to the attached revised Drawing Nos. WT-C6, WT-C11, WT-S1, WT-D1, and WT-D5 **(Within 5'- of the building.)**
- Revised inlet/outlet pipe elevations and structural dimensions for the Well Flush Box. Refer to the attached revised Drawing Nos. WT-C11 and WT-C32.

Pricing & Breakdowns as follows:

Plumber			7,097.00
Insulator			0.00
TAB			0.00
Subcontractors Total			7,097.00
Steel, anchors, hardcast, sealer, hangers, insulation, etc.			0.00
Equipment			0.00
Total HVAC Materials & Equipment			0.00
HVAC Fabrication Labor (traps)	0	96	0.00
HVAC installation Labor	0	96	0.00
HVAC superintendent/Foreman	1	108	108.00
Total HVAC Labor			108.00
Sales Tax on HVAC materials & Equipment	Exempt	0	0.00
15% Mark-up on HVAC materials & labor per the specifications		0.15	16.20
5% Mark-up on subcontractors		0.05	354.85
HVAC total including materials labor & allowable Mark-ups			7,576.05

We have not included power or control wiring, interlock or SCADA/PLC/HVAC Controls, demolition, concrete cutting & patching, lintels, roofing or roof support framing, equipment pads, screen walls, removal or reinstallation of ceilings, allowances, temporary HVAC, temporary water, site utilities, meter charges, frost breaking, utility company fees, Ansul system, utility hook-up fees, landscaping, process piping, hydronic piping, sprinkler piping, bonds, engineering fees, sales tax, and painting.

Back-up data attached.

Thank you for the opportunity to work with you on this project.

Sincerely,

Doug Golay

Change Proposal Request



Project Name: Grinnell WTP

Change Proposal Request No: 1
Description of Change: PPC 2

Date: 5/23/2025

Cerris Costs:

ACTIVITY DESCRIPTION	QUANTITY	UNIT EQUIP.	EQUIP. COST	UNIT MATERIALS	MATERIAL COST	UNIT LABOR	LABOR COST	TOTALS
20ft 12" PVC	20.0		-----	16.64	\$333		-----	\$333
12" 45's	2.0		-----	400.00	\$800		-----	\$800
Flange 2"	1.0		-----	197.13	\$197		-----	\$197
FRP Grate	1.0		-----	277.33	\$277		-----	\$277
			-----		-----		-----	-----
			-----		-----		-----	-----
			-----		-----		-----	-----
			-----		-----		-----	-----
			-----		-----		-----	-----
Excavation	1.0	1500.00	\$1,500		-----		-----	\$1,500
Labor	24.0		-----		-----	55.00	\$1,320	\$1,320
			-----		-----		-----	-----
Labor	24.0		-----		-----	104.90	\$2,518	\$2,518
Labor apprentice	24.0		-----		-----	67.44	\$1,619	\$1,619
DEDUCT			-----		-----		-----	-----
Foreman Labor	10.0		-----		-----	-104.90	(\$1,049)	(\$1,049)
Apprentice Labor	10.0		-----		-----	-67.44	(\$674)	(\$674)
Sump pit	1.0		-----	-640.00	(\$640)		-----	(\$640)
2" PVC	20.0		-----	-0.92	(\$18)		-----	(\$18)
2" PVC Fittings	2.0		-----	-5.90	(\$12)		-----	(\$12)
TOTALS			\$1,500		\$937		\$3,734	\$6,171

Miscellaneous:

Supervision	0.00% of Labor	\$0.00	
Small Tools	0.00% of Labor	\$0.00	
Expendables	0.00% of Labor	\$0.00	
Sales Tax	0.00% of Material	\$0.00	
Miscellaneous Subtotal:		\$0.00	\$0.00
MMC Total:			\$6,171.00

Subcontracts:

1)	\$0	
2)	\$0	
3)	\$0	
4)	\$0	
5)	\$0	
SUBCONTRACT TOTAL:	\$0.00	\$0.00

Mark-ups:

Cost of Work Subtotal	\$6,171.00
15.0% O & P on MMC's Work	\$926.00
6.0% O & P on Subcontract Work	\$0.00
Subtotal:	\$7,097.00
0.00% Insurance	\$0.00
0.00% Bond	\$0.00
	<u>\$7,097.00</u>

	POTENTIAL PROJECT CHANGE REQUEST		PPC Number:	2
			MEC Project Number:	2022000116-003
			Date Requested:	5/6/2025
For Contracted Project:	Water System Improvements 2023 Water Treatment Plant			
			Potential Project Change Requested by:	
Owner:	City of Grinnell		Contractor	
Contractor:	McClure Engineering Company		Engineer	X
			Owner	
You are hereby requested to consider with the following changes below from the original contracted plans and specifications.				
Item #	Description of Requested Potential Change(s)		Requested DECREASE in Project Cost	Requested INCREASE in Project Cost
1	Addition of Sump Pump Pit at the north end of the pipe trench. Refer to the attached revised Drawing Nos. WT-S1 and WT-S5 for details.			
2	Removal of Sump Pump and associated 2" piping from the south end of pipe trench. Refer to the attached revised Drawing No. WT-D1 for details.			
3	Addition of a Sump Drain and 12" PVC piping connecting the new Sump Drain to the Well Flush Box. Refer to the attached revised Drawing Nos. WT-C6, WT-C11, WT-S1, WT-D1, and WT-D5.			
4	Revised inlet/outlet pipe elevations and structural dimensions for the Well Flush Box. Refer to the attached revised Drawing Nos. WT-C11 and WT-C32.			
Totals:				
Reason for Potential Project Change Request:	RFI Response		Request from Owner / Engineer	X
	Site Conditions / Construction Issues		Other:	
Attached Justification:	Contractor Cost Analysis / Breakdown		Product Shop Drawings / Data (If Applicable)	
	Subcontractor / Supplier Documentation		Other:	
Submitted for Review and Approval by: _____				
Contractor: _____ Date: _____				
Engineer / Owner Response to Potential Project Change Request				
Request Approved as Submitted		Revise and Resubmit as Commented Below		
<u>Response Comments:</u>				
Engineer: _____ McClure Engineering Co.			Date: _____	
Owner: _____			Date: _____	

EXISTING PIPING TABLE		
NO.	SIZE/MATERIAL	DESCRIPTION
1	8" VCP	SANITARY SEWER
2	16" PVC	WATER MAIN
3	14" DIP	WATER MAIN
4	10" CI	WATER MAIN
5	18" VCP	SANITARY SEWER
6	12" RCP	STORM SEWER
7	24" VCP	STORM SEWER
8	8" VCP	STORM SEWER
9	10" VCP	STORM SEWER
10	14"	WATER MAIN
11	6" PVC	STORM SEWER
12	10" CI	WATER MAIN
13	10" PVC	SANITARY SEWER
14	8" PVC	SANITARY SEWER
15	8" VCP	STORM SEWER
16	8" PVC	SANITARY SEWER
17	12" PVC	SANITARY SEWER
18	6" VCP	SANITARY SEWER
19	10" VCP	SANITARY SEWER
20	12" DIP	RAW WATER MAIN
21	10" CI	RAW WATER MAIN
22	10" PVC	SANITARY SEWER
23	12" PVC	WATER MAIN
24	12" PVC	WATER MAIN
25	6" CI	WATER MAIN
26	4" CI	WATER MAIN
27	8" DIP	RAW WATER MAIN
28	8" DIP	RAW WATER MAIN
29	10" DIP	RAW WATER MAIN
30	12" DIP	RAW WATER MAIN
31	10" CI	RAW WATER MAIN
32	12" VCP	STORM SEWER
33	10" VCP	STORM SEWER
34	6" PVC	STORM SEWER

- NOTES:
- 1 HIGHLIGHTED SECTION TO BE COMPLETED FOLLOWING DEMOLITION OF THE EXISTING SITE. ()
 - 2 WELL FLUSH BOX DETAIL ON PAGE WT-C32.
 - 3 EXISTING BRINE DISCHARGE STRUCTURE.
 - 4 NEW RAW WATER MAIN, NOT IN CONTRACT.
 - 5 TIE IN TO NEW WATER MAIN, SEE CONNECTION DETAILS ON PAGE WT-C33.
 - 6 NEW STORM SEWER INTAKE, SEE DETAIL ON PAGE WT-C25.

PROPOSED PIPING			
NO.	SIZE/MATERIAL	APPROX LENGTH & DRAWING NO.	DESCRIPTION
1	16" DIP W/ NITRILE GASKETS	500 LF / WT-C10	WATER MAIN TO CITY DISTRIBUTION SYSTEM
2	16" DIP W/ NITRILE GASKETS	48 LF / WT-C8	AERATOR TO CLEARWELL
3	6" DIP W/ NITRILE GASKETS	48 LF / WT-C8	BLEND TO CLEARWELL
4	16" DIP W/ NITRILE GASKETS	16 LF / WT-C9	CLEARWELL TO HSP WATER MAIN
5	16" DIP W/ NITRILE GASKETS	49 LF / WT-C9	CLEARWELL BYPASS WATER MAIN
6	12" DIP W/ NITRILE GASKETS	17 LF	WATER MAIN TO HSP'S
7	16" DIP W/ NITRILE GASKETS	11 LF	WATER MAIN TO CITY DISTRIBUTION SYSTEM
8	12" DIP W/ NITRILE GASKETS	250 LF / WT-C7	WELL 10 RAW WATER MAIN
9	16" DIP W/ NITRILE GASKETS	72 LF / WT-C7	WELL 7, 8, 9 RAW WATER MAIN
10	6" DIP	15 LF / WT-C11	CONCENTRATE
11	12" DIP	18 LF	WELL FLUSH
12	16" PVC	49 LF / WT-C11	BRINE DISCHARGE
13	12" PVC	102 LF / WT-C12	STORM SEWER
14	8" PVC	12 LF	ROOF DRAIN
15	6" PVC	25 LF	WATER SERVICE
16	6" PVC	60 LF / WT-C12	SANITARY SEWER SERVICE
17	12" PVC	22 LF / WT-C11	SUMP DRAIN



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IOWA CERTIFICATE OF AUTHORITY NO. 26887



0 5 30 60

SCALE: 1" = 30'-0" (FULL SIZE)
SCALE 1" = 60'-0" (HALF SIZE)

REVISIONS

CHANGE ORDER #2 (April 2025)

PROJECT INFO

2022000116-003

09-12-24

ENGINEER TWW DRAWN BY JDK CHECKED BY JMC

WATER SYSTEM IMPROVEMENTS 2023

WATER TREATMENT PLANT

GRINNELL, IOWA

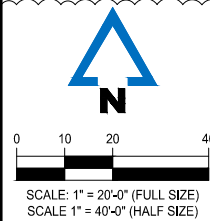
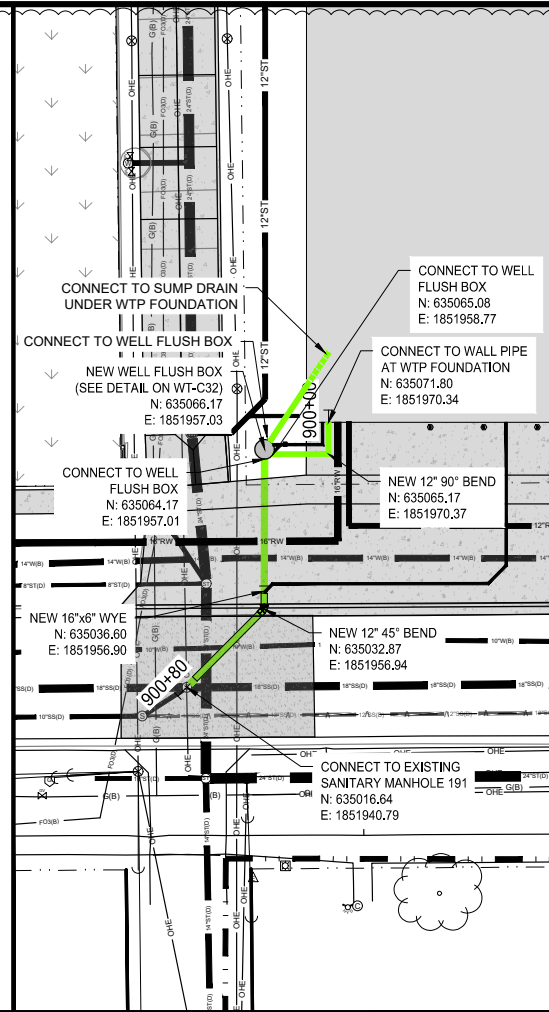
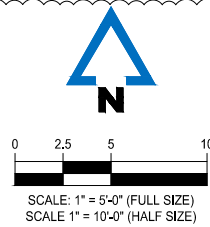
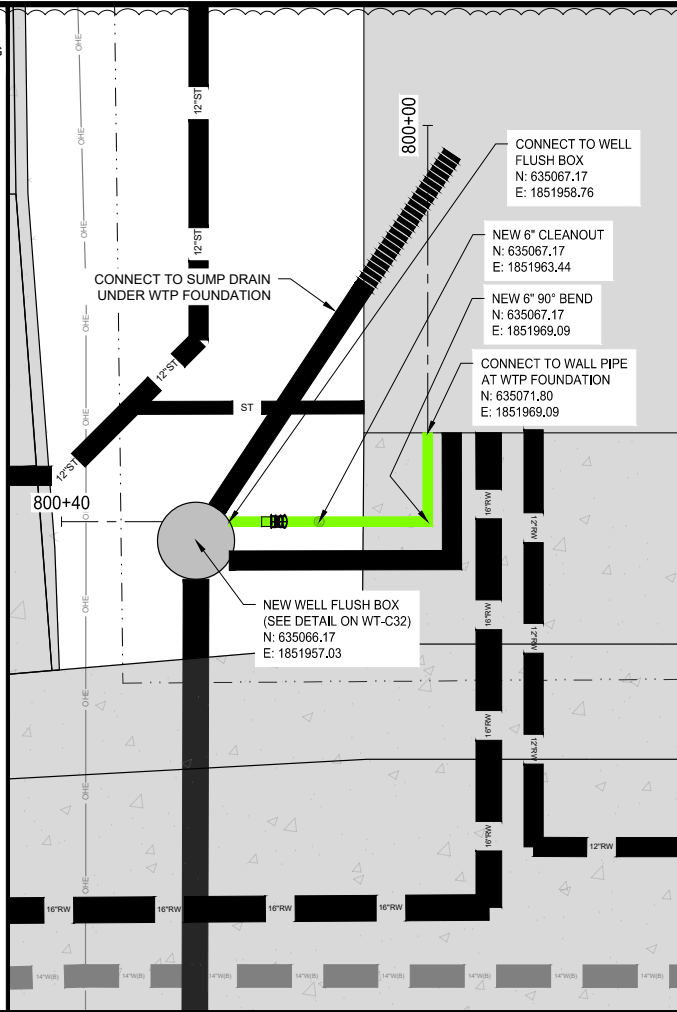
PROPOSED PIPING PLAN

P:\2022000116-003\04-DRAWINGS\05-PLANS\WT-C5 PROPOSED PIPING.DWG - 2023-11-8

DRAWING NO. WT-C6

SHEET NO. 30 / 158

GENERAL NOTES:
CONTRACTOR TO FIELD VERIFY EXISTING UTILITIES PRIOR TO EXCAVATION.



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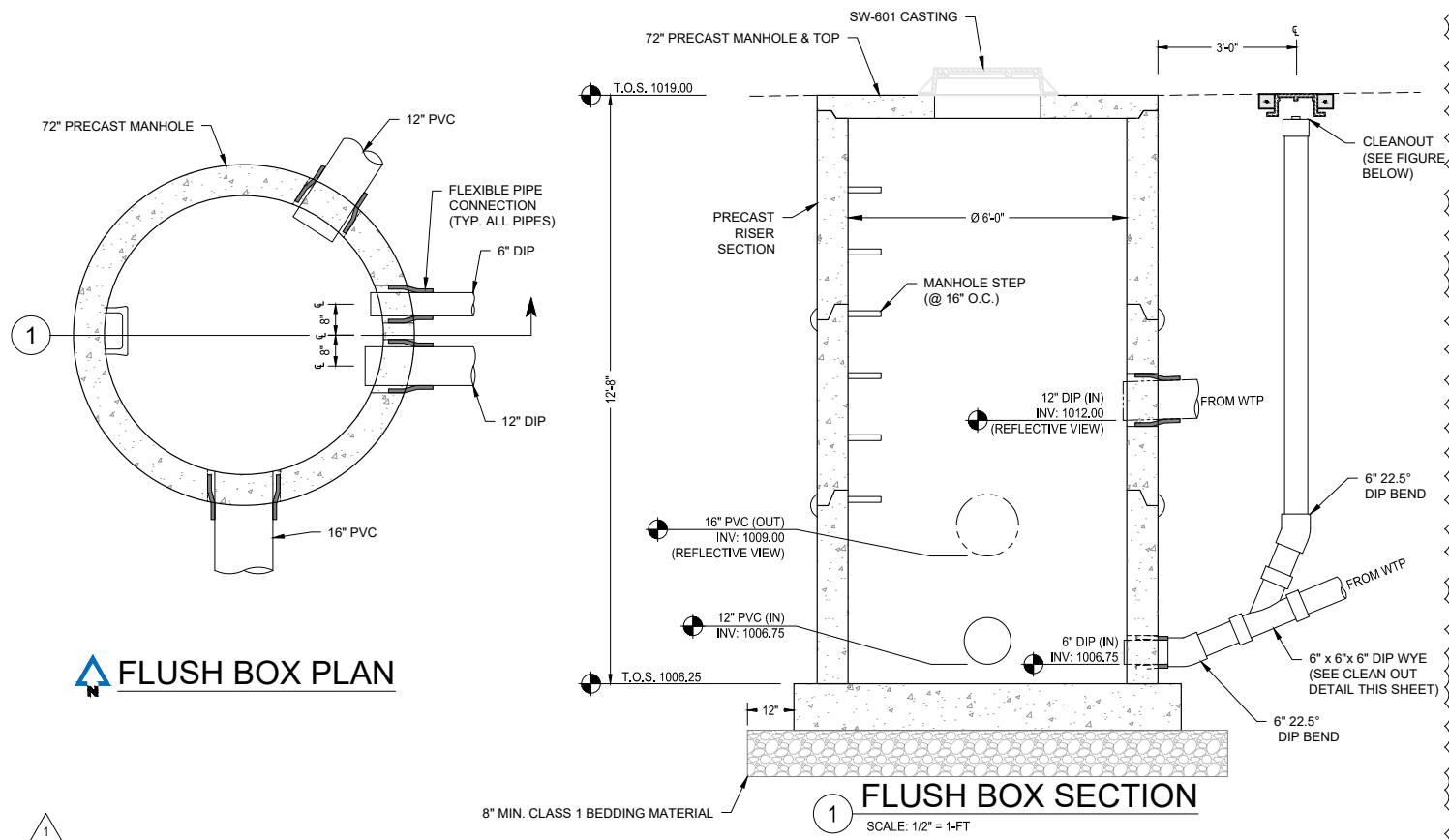
IOWA CERTIFICATE OF
AUTHORITY NO. 26887

REVISIONS
△ CHANGE ORDER #2 (April)

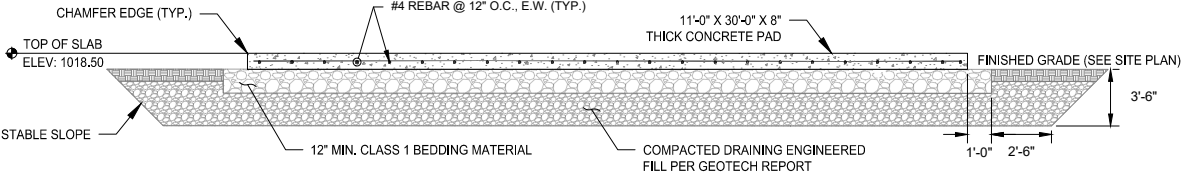
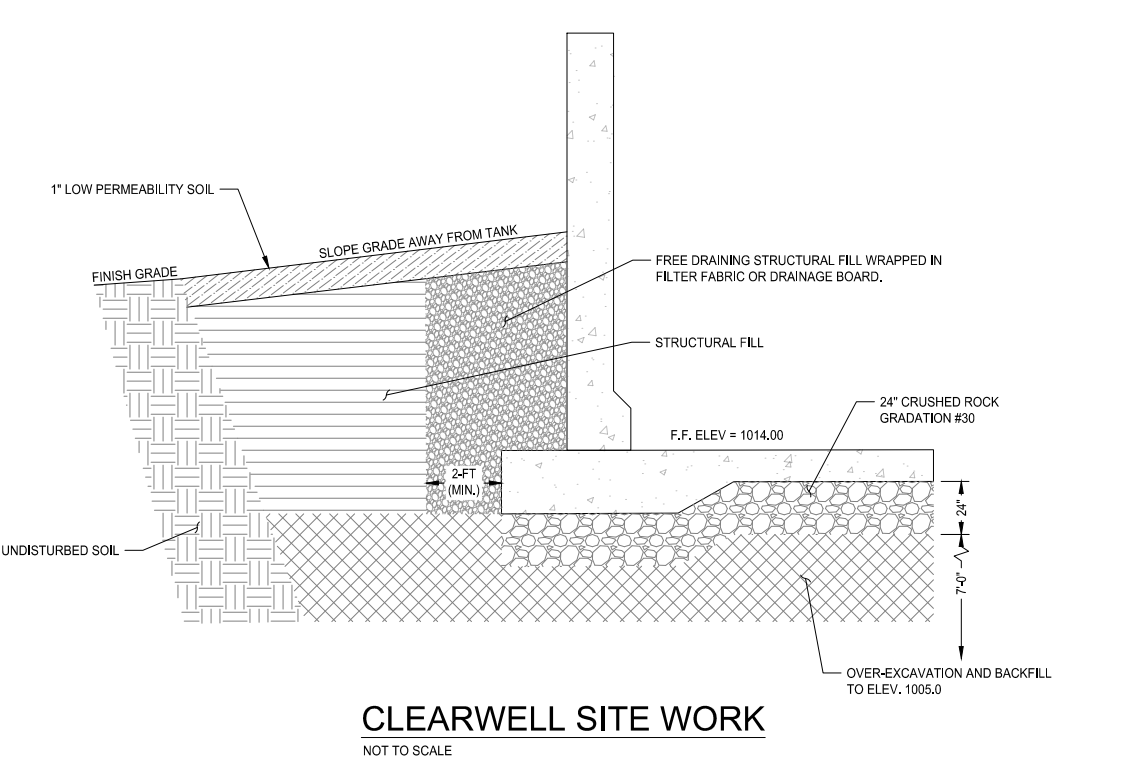
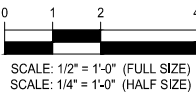
PROJECT INFO
2022000116-003
09-12-24
ENGINEER TWW DRAWN BY JDC CHECKED BY JMC

WATER SYSTEM IMPROVEMENTS 2023
WATER TREATMENT PLANT
GRINNELL, IOWA
PROPOSED SITE PIPING PLAN AND
PROFILE
P:\2022000116-003\04-DRAWINGS\05-PLANS\WT-C8 & 10-11 PLAN & PROFILE DWG - 2024-5-2

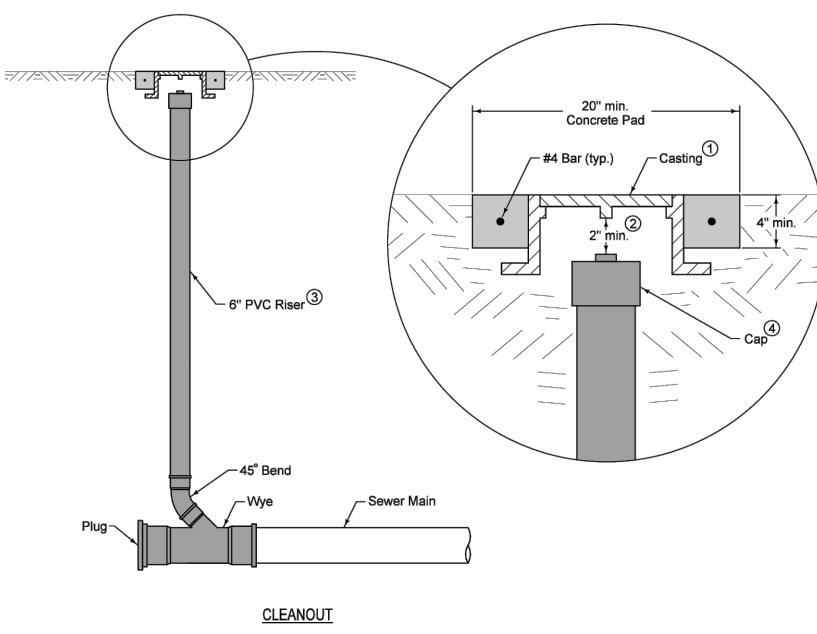
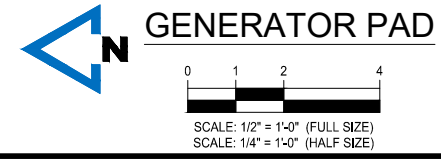
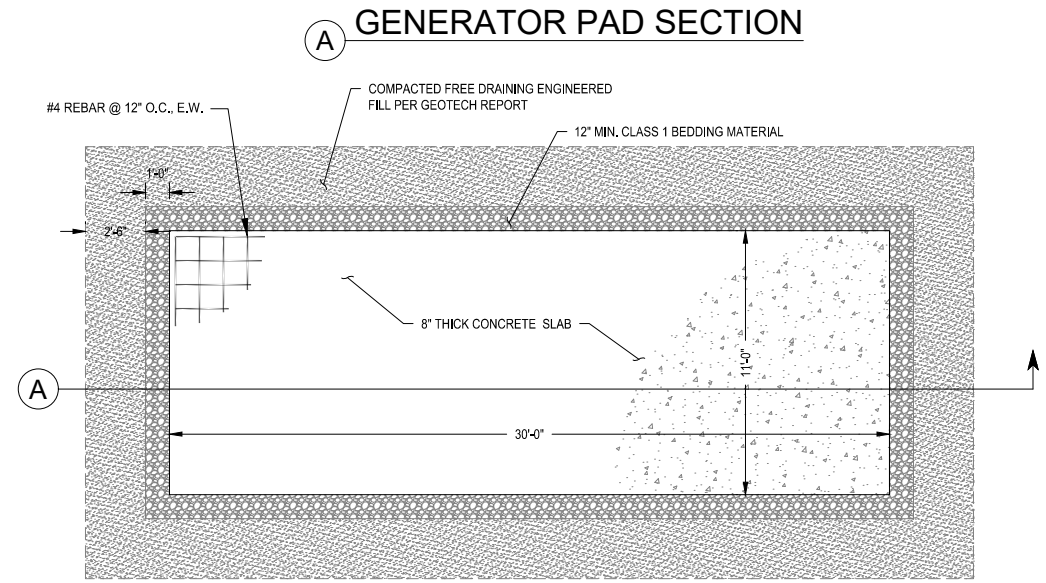
DRAWING NO. WT-C11 SHEET NO. 35 / 158



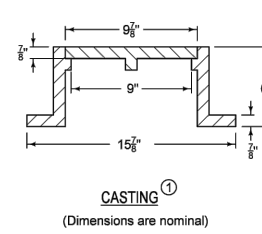
FLUSH BOX DETAILS



- GENERAL NOTES:**
1. GENERATOR, WIRE, AND CONDUIT SUBMITTALS MUST BE APPROVED BY ENGINEER BEFORE WORK CAN BEGIN ON THE GENERATOR PAD.
 2. COORDINATE OPENINGS IN THE SLAB FOR ELECTRICAL PENETRATIONS WITH ELECTRICAL DRAWINGS.



1. Standard duty casting complying with AASHTO M 306. Mark lid with "Sanitary" or "Sanitary C.O."
2. Do not allow casting to bear on top of riser pipe.
3. 6 inch PVC Service Pipe
4. Threaded PVC cap or iron body ferrule with brass screw plug



SUDAS	IOWADOT	REVISION
FIGURE 4010.203	STANDARD ROAD PLAN	1 04-17-18
SW-203		SHEET 1 OF 1
REVISIONS: Replaced Iowa DOT and SUDAS logos.		
<i>Paul D. Whigam</i> <i>William Smith</i> SUDAS DIRECTOR IOWADOT DESIGN MANAGER		
SANITARY SEWER CLEANOUT		

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IOWA CERTIFICATE OF AUTHORITY NO. 26887

REVISIONS		
Δ	CHANGE ORDER #2 (April)	
PROJECT INFO		
2022000116-003		
09-12-24		
ENGINEER	DRAWN BY	CHECKED BY
TWW		JMC

WATER SYSTEM IMPROVEMENTS 2023
WATER TREATMENT PLANT
GRINNELL, IOWA

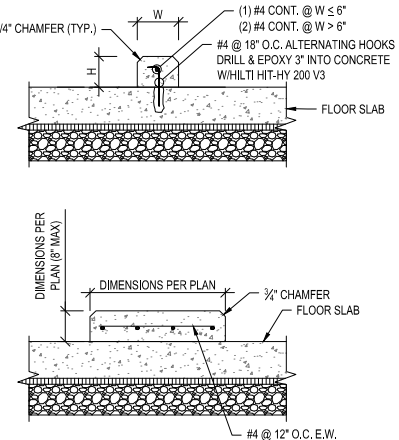
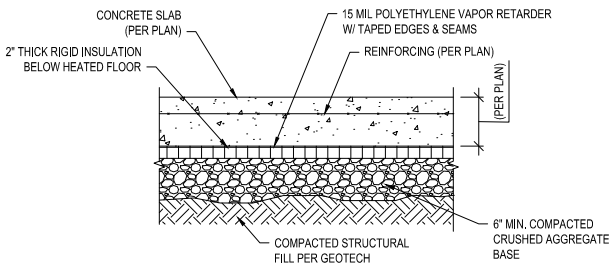
GENERAL SITE DETAILS

DRAWING NO. WT-C32 SHEET NO. 56 / 158

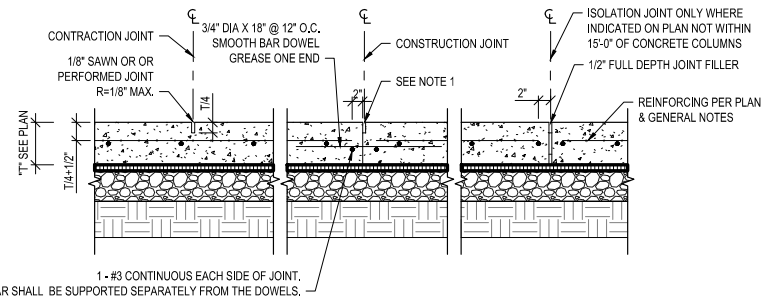
TYPE OF STANDARD HOOK	BAR SIZE	MINIMUM INSIDE BEND DIAMETER IN.	STRAIGHT EXTENSION (1) Lext. IN.	TYPE OF STANDARD HOOK
90-DEGREE HOOK	#3 THROUGH #5	4db	GREATER OF 6db AND 3"	
	#6 THROUGH #8	6db	12db	
135-DEGREE HOOK	#3 THROUGH #5	4db	GREATER OF 6db AND 3"	
	#6 THROUGH #8	6db		
180-DEGREE HOOK	#3 THROUGH #5	4db	GREATER OF 6db AND 3"	
	#6 THROUGH #8	6db		

NOTES:
1. A STANDARD HOOK FOR STIRRUPS, TIES, AND HOOPS INCLUDES THE SPECIFIC INSIDE BEND DIAMETER AND STRAIGHT EXTENSION LENGTH. IT SHALL BE PERMITTED TO USE A LONGER STRAIGHT EXTENSION AT THE END OF A HOOK. A LONGER EXTENSION SHALL NOT BE CONSIDERED TO INCREASE THE ANCHORAGE OF THE HOOK.

TYPE OF STANDARD HOOK	BAR SIZE	MINIMUM INSIDE BEND DIAMETER, IN.	STRAIGHT EXTENSION (1) Lext. IN.	TYPE OF STANDARD HOOK
90-DEGREE HOOK	#3 THROUGH #8	6db	12db	
	#9 THROUGH #11	8db		
	#14 THROUGH #18	10db		
180-DEGREE HOOK	#3 THROUGH #8	6db	GREATER OF 4db AND 2.5"	
	#9 THROUGH #11	8db		
	#14 THROUGH #18	10db		

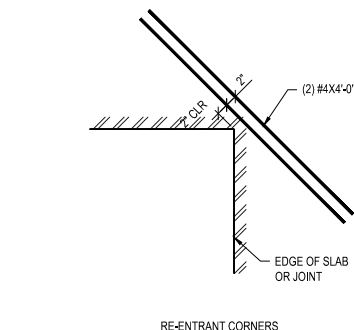


1 MINIMUM BEND DIAMETERS FOR STIRRUPS, TIES, AND HOOPS N.T.S.



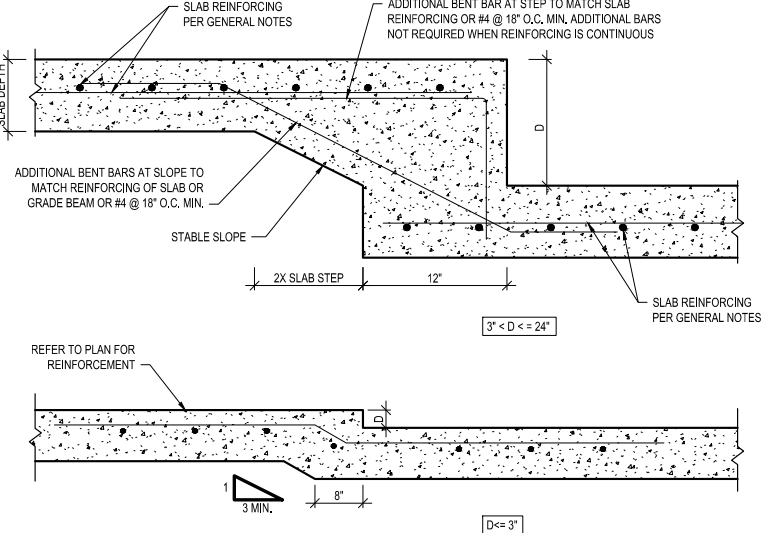
NOTES:
1. LOCATE CONSTRUCTION JOINTS AT SAW JOINT LOCATIONS SHOWN ON PLAN. MATCH SAW JOINT PROFILE.
2. MAXIMUM SPACING BETWEEN SAW JOINTS: 15'-0" FOR 8" SLAB ON GRADE.
3. CONTINUE SLAB ON GRADE REINFORCING, UNO. PROVIDE TENSION LAP SPLICE AS REQUIRED.
4. DO NOT PLACE DOWELS WITHIN 12" OF A SLAB CORNER.
5. SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL-SUPPORTED SLAB BOLSTERS.
6. AT CONSTRUCTION JOINTS, BREAK BOND BETWEEN NEW AND PREVIOUSLY-PLACED SLAB BY PLACING OR PAINTING EXPOSED SIDES OF JOINT WITH A CURING COMPOUND, BOND-BREAKER OR FORM OIL.
7. AT CONTRACTION (CONTROL) JOINTS, MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT THE WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB.

5 TYPICAL SLAB ON GRADE JOINTS N.T.S.

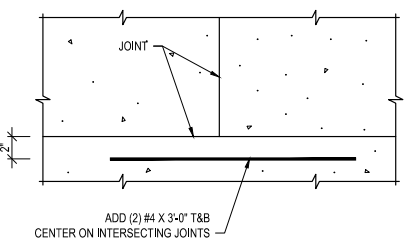


8 ADDITIONAL REINFORCING IN SLABS N.T.S.

2 STANDARD HOOK GEOMETRY FOR DEVELOPMENT OF DEFORMED BARS IN TENSION N.T.S.

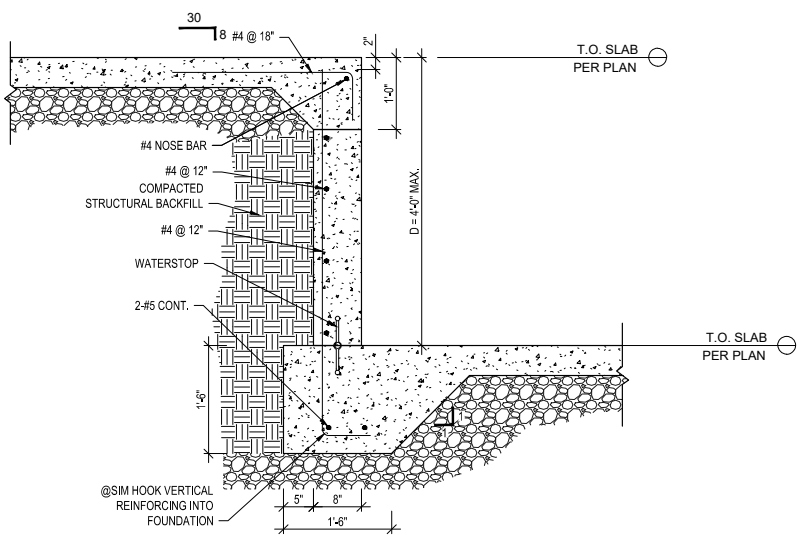


6 TYPICAL SLAB ON GRADE AT DEPRESSION DETAIL N.T.S.

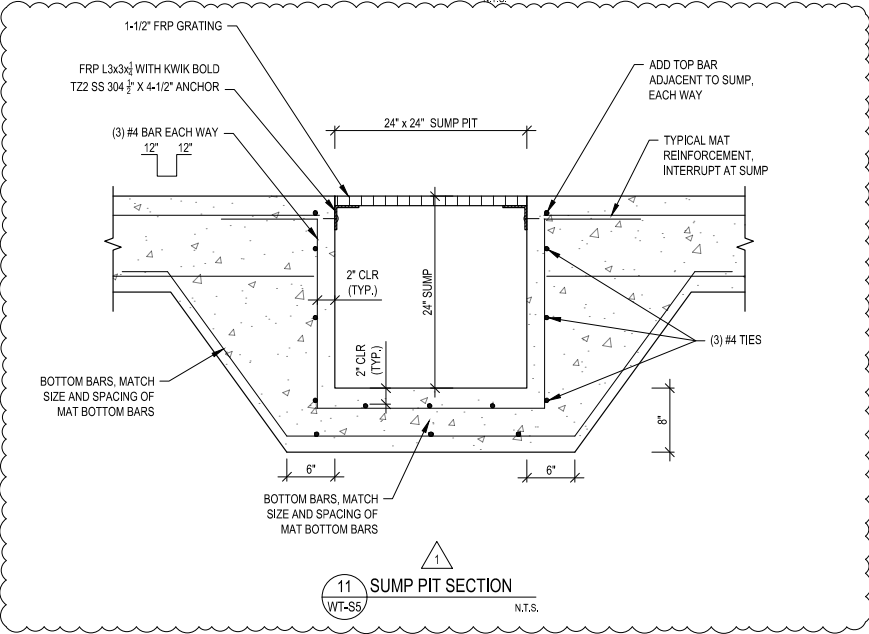


9 REINFORCEMENT AT DISCONTINUOUS SLAB-ON-GROUND CONTRACTION JOINT N.T.S.

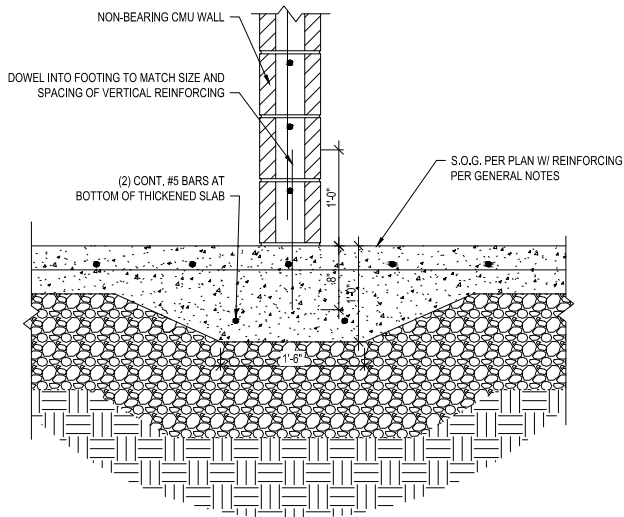
3 TYPICAL INTERIOR SLAB ON GRADE N.T.S.



7 SLAB ON GRADE STEP (D LESS THAN 4'-0") N.T.S.



11 SUMP PIT SECTION N.T.S.



10 THICKENED SLAB AT NON-BEARING CMU WALLS N.T.S.

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REVISIONS

CHANGE ORDER #2 (April 2025)

PROJECT INFO

2022000116-003
APRIL 4, 2025

ENGINEER

WOC

DRAWN BY

CEL

CHECKED BY

ZHC

WATER SYSTEM IMPROVEMENTS 2023

WATER TREATMENT PLANT

GRINNELL, IOWA

TYPICAL FOUNDATION DETAILS

DRAWING NO.

WT-S5

SHEET NO.

62 / 158

LEGEND

HOT WATER
COLD WATER
DRAINS
VENTS

MECHANICAL SCHEMATIC SYMBOLS

1. BALL VALVE
2. GATE VALVE
3. GLOBE VALVE
4. PRESSURE REDUCING VALVE
5. BALANCE VALVE
6. CHECK VALVE
7. CONTROL VALVE
8. GAS COCK
9. THERMOMETER
10. PRESSURE GAUGE
11. MANUAL AIR VENT
12. UNION
13. STRAINER W/DRAIN VALVE
14. TOP CONNECTION
15. BOTTOM CONNECTION
16. SIDE CONNECTION
17. SHOCK ABSORBER
18. FLOW FITTING (DESIGN GPM)
19. PIPE ANCHOR
20. PIPE HANGER
21. PIPE CAP OR PLUG
22. PIPE RISER DOWNWARD
23. PIPE RISER UPWARD

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PLAN NOTES:

1. PROVIDE 1" PVC DRAIN BELOW FLOOR GRATE FOR DEHUMIDIFIERS. SUPPORT DRAIN LINE FROM WALL OF TRENCH EVERY 3-FT MINIMUM. SLOPE AT 1/4" / FT MINIMUM. PROVIDE ELL AT DISCHARGE TO ENSURE CONDENSATE DRAINS INTO PIT. RUN 3/4" FLEXIBLE POLY TUBE FROM HUMIDIFIER TO 1" PVC DRAIN LINE.

2. BOTTOM OF TRENCH DRAINS SHALL SLOPE TOWARDS EAST END FOR NORMAL OPERATION. 8" DRAIN PIPE FOR EMERGENCY OPERATION SHALL CONNECT TO END OF TRENCH DRAIN AND BE SLOPED 1/4" / FT TOWARDS TRENCH. 4" DRAIN AT EAST END OF TRENCH DRAIN SHALL CONNECT TO BOTTOM OF TRENCH DRAIN AND SHALL BE TRAPPED.

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0 3 6 12

SCALE: 3/16" = 1'-0" (FULL SIZE)
SCALE: 3/32" = 1'-0" (HALF SIZE)

REVISIONS

CHANGE ORDER #2 (April 2025)

PROJECT INFO

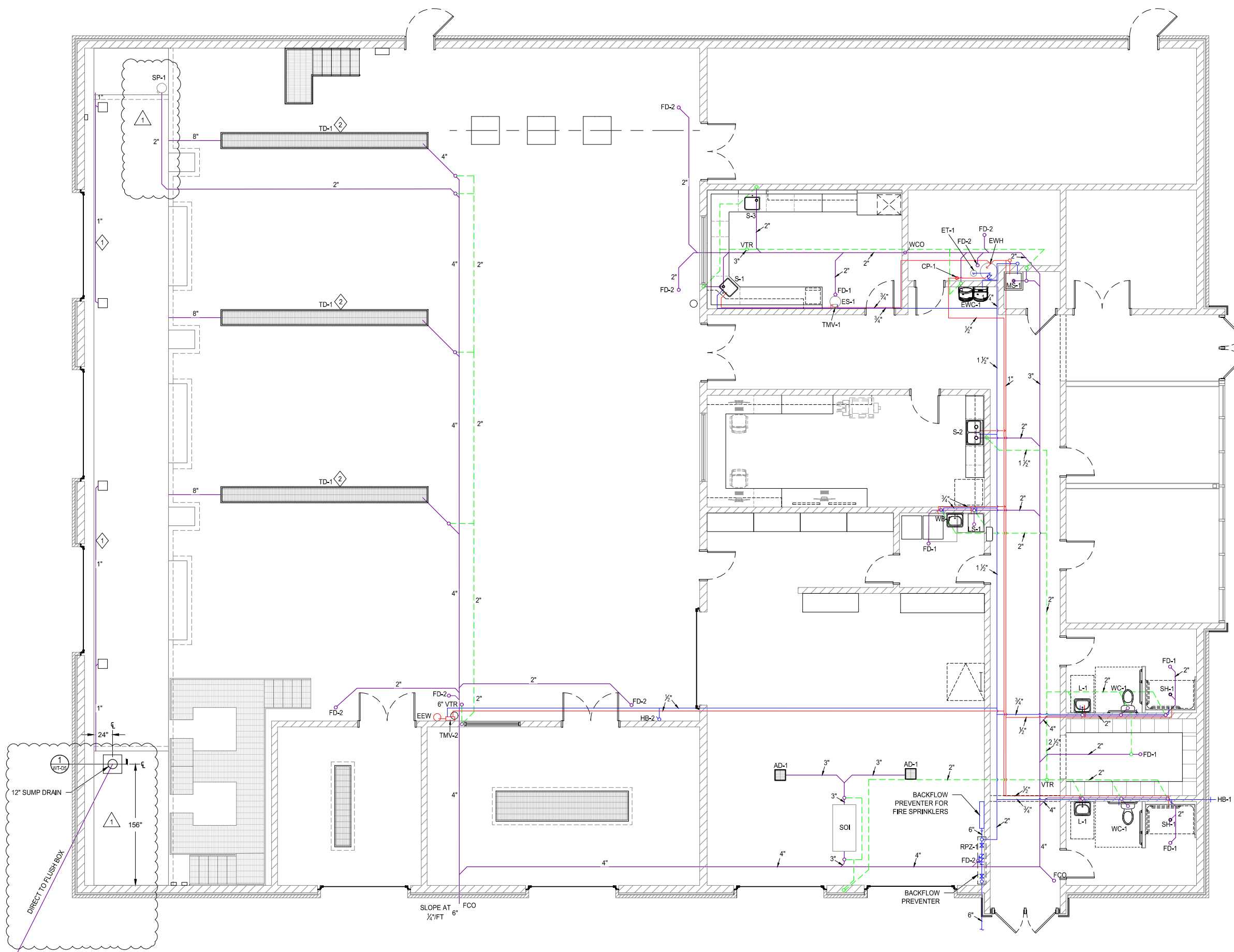
2022000116-003
09-12-24
ENGINEER: TWW
DRAWN BY: JDC
CHECKED BY: JMC

WATER SYSTEM IMPROVEMENTS 2023
WATER TREATMENT PLANT
GRINNELL, IOWA

OVERALL PLUMBING PLAN

P:\2022000116-003\04-DRAWINGS\05-PLANS\WT-D3-8 DWG - 2023-8-11

DRAWING NO. WT-D1
SHEET NO. 129 / 158



GRINNELL WATER TREATMENT PLANT PLUMBING EQUIPMENT SCHEDULE

MARK:EEW
FUNCTION: EMERGENCY EYE/FACE WASH
REMARKS: HAWS MODEL 7260BT OR EQUIVALENT, EYE/FACE WASH WITH GREEN ABS PLASTIC BOWL, INTEGRQAL 3.7 GPM FLOW CONTROL, TAIL PIECE AND TRAP, WALL BRACKET, BRASS STAY OPEN BALL VALVE, UNIVERSAL SIGN. PROVIDE WITH THERMOSTATIC MIXING VALVE, TV-1. MEET ANSI Z358.1 STANDARD.

MARK:EWC-1
FUNCTION: ELECTRIC WATER COOLER
ELECT INFO: 120 V, 370 W
REMARKS: ELKAY MODEL E2STL-8C OR EQUIVALENT, TO DELIVER 8 GPH OF 50 DEG WATER IN A 90 DEG ENVIRONMENT, ADA COMPLIANT, STAINLESS STEEL TOP, FLEXIGUARD BUBBLER, WITH STOP AND CARRIER.

MARK:ES-1
FUNCTION: EMERGENCY SHOWER/EYE/FACE WASH
REMARKS: HAWS MODEL 8300-8309 OR EQUIVALENT. COMBINATION SHOWER AND EYE/FACE WASH INCLUDING SS 11" BOWL, AXION MSR EYE/FACE HEAD AND ABS PLASTIC SHOWERHEAD.

ET-1 MARK: ET-1
FUNCTION: EXPANSION TANK
ELEC. INFO: N/A
CAPACITY: 2 GALLON
REMARKS: AMTROL THERM-X-TROL MODEL ST-5C OR EQUIVALENT

MARK:EWB
FUNCTION: ELECTRIC WATER HEATER
ELECT: 12.3 KW, 208V, 3 PHASE, 34 FLA.
REMARKS: AO SMITH MODEL DRE-52-12 OR EQUIVLENT, 50 GAL, MEETING ASHRAE/IES 90.1. THREE ELEMENTS AT 4100W EACH FOR A TOTAL OF 12.3KW. 56 GPM RECOVERY RATE AT 90 DEG F DELTA T. 150 PSI WORKING PRESSURE, 1-1/4" INLET AND OUTLET. PROVIDE T & P RELIEF VALVE PIPED TO NEAREST LOOR DRAIN, BRASS DRAIN VALVE, TWO ANODE RODS.. 3 YEAR WARRANTY.

MARK:FD-1
FUNCTION: FLOOR DRAIN
MANF.& ODEL:J.R. SMITH MODEL 2005-A ROUND TOP DRAIN OR APPROVED EQUAL. CAST IRON BODY W/ 5" NICKEL BRONZE ADJUSTABLE STRAINER, 2" OUTLET.

MARK:FD-2
FUNCTION: FLOOR DRAIN
REMARKS: JR SMITH MODEL 2110 OR EQUIVALENT, CAST IRON BODY WITH 8" DIAMETER NICKLE BRONZE TOP. 4" OUTLET.

MARK:GCO
FUNCTION: GRADE CLEANOUT
REMARKS: JR SMITH MODEL 4250S OR EQUIVALENT, WITH GASKET SEAL AND ABS PLUG

MARK:HB-1
RUNCTION: FROST PROOF HOSE BIBB
REMARKS: JR SMITH MODEL 5609QT OR EQUIVALENT, BRONZE NICKEL PLATED QUARTER TURN, NON FREEZE, 3/4" HOSE CONNECTION, BACKER PLATE, INTEGRAL VACUUM BREAKER AND "T" HANDLE KEY.

MARK:HB-2
FUNCTION: HOSE BIB
REMARKS: WOODFORD MODEL 24CP OR EQUIVALENT, ANTI CONTAMINATION FAUCET, BRASS WITH ANTI-SIPHON VACUUM BREAKER, WHEEL HANDLE.

MARK:L-1
FUNCTION: ADA WALL HUNG LAVATORY
REMARKS: AMERICAN STANDARD MODEL 0356.015 OR EQUIVALENT, CHINA WITH FRONT OVERFLOW, FAUCET LEDGE, 8" CENTERS AND. PROVIDE CARRIER AND 6540,170 FAUCET, WITH WRIST BLADE HANDLE, CHROME SUPPLIES, STOPS, 1-1/4" CHROME TRAP. INSULATE SUPPLIES AND DRAIN WITH LAVGUARD BY TRUBRO OR EQUIVALENT.

MARK:LS-1
FUNCTION: LAUNDRY SINK
REMARKS: MUSTEE MODEL 14CP UTILATUB OR EQUIVALENT, 1 PIECE MOLDED RESIN, 20 GAL CAPACITY, 4" CENTERS. PROVIDE 6" SPOUT FAUCET, SUPPLIES, STOPS, 1-1/2" PVC TRAP, STOPPER..

MARK:MS-1
FUNCTION: MOP SINK
REMARKS: FIAT MODEL MS82424 OR EQUIVALENT, PROVIDE 830 AA FAUCET AND MOP BRACKET.

MARK:RPZ-1
FUNCTION: BACKFLOW PREVENTER
REMARKS: WATTS MODEL 009 OR EQUIVALENT, 2". PROVIDE WITH STAINER, ISOLATION VALVES, AIR GAP FITTING. PIPE AIR GAP FITTING TO FLOOR DRAIN.

MARK:S-1
FUNCTION: LAB SINK
REMARKS: RESIN SINK (SEE ARCHITECTURAL SHEETS). PROVIDE KEWAUNEE MODEL W-0340-6V FAUCET, WITH GOOSENECK SPOUT, CROSS HANDLES, AND W-0532-00 AERATOR, ADA TAILPIECE, TRAP, STOPS AND STAINLESS STEEL CRUMB CUP STRAINER.

MARK:S-2
FUNCTION: KITCHEN SINK
REMARKS: ELKAY DOUBLE BOWL SINK MODEL GE23322 OR EQUIVALENT, 33" X 22" X 6" OVERALL, 14 X 15-3/4 X 6-1/4" DEEP COMPARTMENTS, STAINLESS STEEL, 3 HOLES. PROVIDE LK-5000 FAUCET, WITH SWING SPOUT, PULL OUT HOSE AND SPRAY, 3 HOLE ESCUTCHEON PLATE, TRAP, STOPS AND STAINLESS-STEEL CRUMB CUP STRAINER. PROVIDE GARBAGE DISPOSER, IN-SINK-ERATOR, 1/2 HP BADGER 5, 120V.

MARK:S-3
FUNCTION: SAMPLE SINK
REMARKS: RESIN SINK (SEE ARCHITECTURAL SHEETS), PROVIDE 5 EACH 1/2" MIP X PLAIN END SMOOTH-NOSED SAMPLE TAPS, A.Y. McDONALD #2002NT OR EQUIVALENT. PROVIDE STAINLESS STEEL CRUMB CUP STRAINER, TAILPIECE, TRAP, STOPS.

MARK:SOI
FUNCTION: SAND OIL INTERCEPTOR
REMARKS: WATTS MODEL OI-15-ST OR EQUIJVALENT, 15 GPM, 14 GAL OIL CAPACITY WITH DRAW OFF CONNECTION, SEDIMENT BUCKET, COMBINED VOLUME 26 GAL. RECESSED, EPOXY COATED STEEL TOP.

MARK:SH-1
FUNCTION: SHOWER
REMARKS: SOLID SURFACE WALLS AND FLOOR (SEE ARCHITECTURAL SHEETS). PROVIDE WITH ADJUSTABLE SHOWER DRAIN. PROVIDE AMERICAN STANDARD SHOWER SYSTEM TU662,213 OR EQUIVALENT, SHOWER HEAD AND VALVE, HOSE, SLIDE BAR, HAND SHOWER.

MARK:SP
FUNCTION: SUMP PUMP
ELECT: 120V, 4/10 HP
REMARKS:LITTLE GIANT MODEL 9EC-CIA-SFS OR EQUIVALENT, TO DELIVER 63 GPM AT 10 FT HEAD, INTEGRAL FLOAT SWITCH, 30 FT CORD.

MARK:TD-1
FUNCTION: TRENCH DRAIN
REMARKS: FORMED CONCRETE TRENCH AND TOP BY OTHERS.

MARK:TMV-1
FUNCTION: THERMOSTATIC MIXING VALVE
REMARKS: HAWS MODEL 9201E OR EQUIVALENT TO MIX 1 TO 30 GPM OF HOT AND COLD WATER TO 90 DEG. 1-1/4" INLET AND 1-1/4" OUTLET.

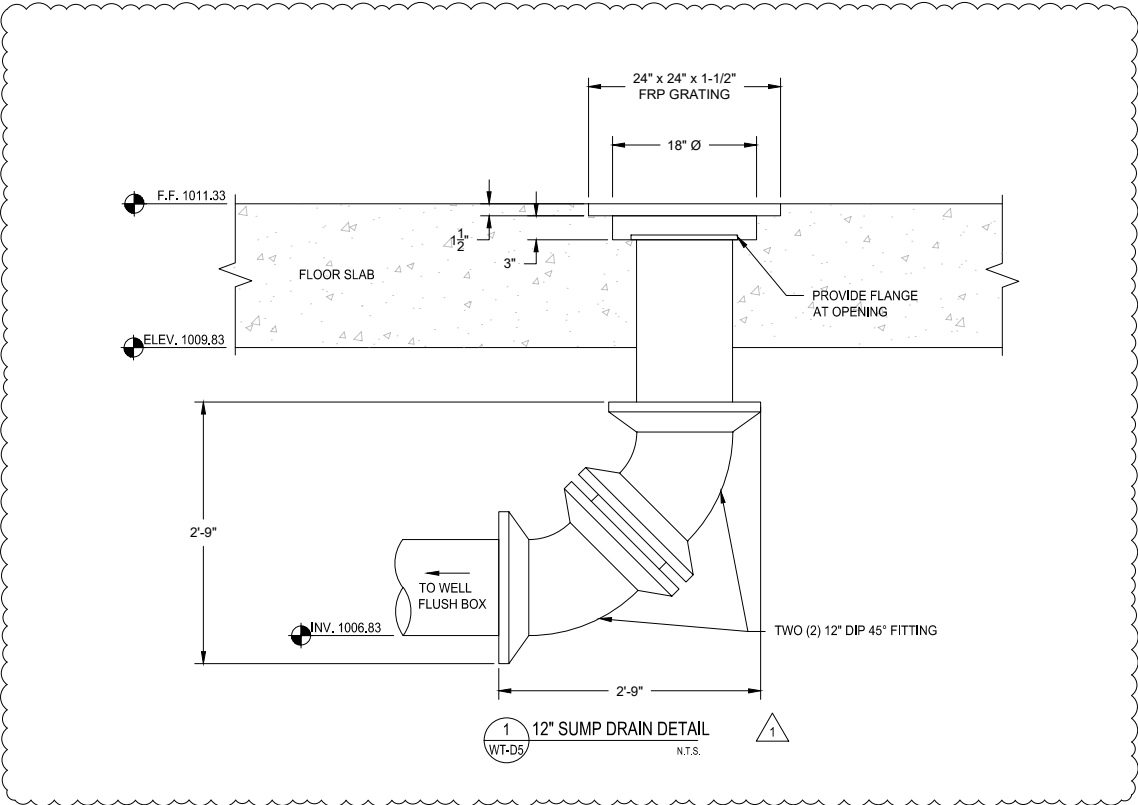
MARK:TMV-2
FUNCTION: THERMOSTATIC MIXING VALVE
REMARKS: POWERS MODEL 9201EW OR EQUIVALENT TO MIX 1 TO 10 GPM OF HOT AND COLD WATER TO 120 DEG. WITH LESS THAN A 22 PSI PRESSURE DROP. 1/2" INLET AND 1/2" OUTLET.

MARK:WB-1
FUNCTION: WALL BOX FOR WASHER
REMARKS: OATEY WASHING MACHINE BOX WITH 1/4 TURN HANDLES, WATER HAMMER ARRESTERS AND OUTLET.

MARK:WC-1
FUNCTION: FLOOR MOUNT ADA WATER CLOSET
REMARKS: AMERICAN STANDARD, 204BA,104 RIGHT HEIGHT EDMERERE ELONGATED TOILET WITH SEAT. 1.6 GPF. PROVIDE WAX RING, BOLT CAPS.

MARK:WCO
FUNCTION: WALL CLEAN OUT
MANF.& MODEL: J.R. SMITH MODEL 4422 OR APPROVED EQUAL. COVER SHALL BE FLUSH W/ WALL.

MARK:WHA-1
FUNCTION: WATER HAMMER ARRESTER
MANF.& MODEL: J.R. SMITH OR APPROVED EQUAL, HYDROTROL MODEL 5005, RATED FOR 1-11 FXTURE UNITS.





1360 NW 121st Street
Clive, Iowa 50325
P 515-964-1229
F 515-964-2370

Ankeny, IA | Carroll, IA | Clive, IA
Cedar Rapids, IA | Fort Dodge, IA
Coralville, IA | Sioux City, IA
Macon, MO | Columbia, MO
North Kansas City, MO
Lenexa, KS

NOTICE:
McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans and Specifications.

IOWA CERTIFICATE OF AUTHORITY NO. 26887

REVISIONS

△ CHANGE ORDER #2 (April 2025)

PROJECT INFO

2022000116-003

09-12-24

ENGINEER	DRAWN BY	CHECKED BY
TWW	JDK	JMC

WATER SYSTEM IMPROVEMENTS 2023

WATER TREATMENT PLANT

GRINNELL, IOWA

PLUMBING EQUIPMENT SCHEDULE

P:\2022000116-003\04-DRAWINGS\05-PLANS\WT-D3-8 DWG - 2023-8-11



DRAWING NO. WT-D5

SHEET NO. 133 / 158



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Project: Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa
CAR No.: 07 **DATE:** August 25, 2025 **Job No.:** 2402-001445
Reference: _____ **Contract No.:** FS-79-24-DWSRF-0006

A Change in the scope of work is indicated below and Owner's prompt approval or rejection of this authorization is requested so that the material may be purchased and to prevent any delay in field operations.

Reason for Change:

- (☒) Design Request (☐) Field Condition
(☐) Owner Request (☐) Suggested by Contractor
(☐) Other _____

1) Description of Change:

Field Order 2 request from McClure. 1 through 10 descriptions have been acknowledged. Please Advise

2) It is requested that the completion date be:

(☒) extended / (☐) reduced by _____ calendar days

3) Basis of Payment:

- a) (☒) Firm price for performing this change along with attached supporting details is (☒) increased by / (☐) decreased by \$ 18,324.00
- b) (☐) Unit Price _____
- c) (☐) Change to be performed per unit prices in Contract \$ -
- d) (☐) The time required to prepare and agree upon a detailed estimate prior to proceeding with the change would unduly delay job progress. The following is an approximate estimate to assist Owner in determining whether or not change should be made. If notified to proceed, a detailed estimate in the form agreed upon, with supporting details, will be submitted after receipt of said notice.

Approximate Estimate is: \$ _____

FOR OWNER'S USE

(☐) CHANGE WILL NOT BE MADE

PROCEED ON THE FOLLOWING BASIS:

- (☐) Firm Price (☐) Time and Material
(☐) Estimate of Price (☐) Change in Completion Date
(☐) Unit Price in Contract (☐) No Change

Comments: _____

WENDLER	Submitted <u>8/25/2025</u>
	Date
	Signature: <u>Colton Singbeil</u>
	By: Colton Singbeil Title: Project Manager

Approved _____
Date
Signature: _____
By: _____ Title: _____



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa

Date: August 25, 2025

07

Field Order 2 request from McClure. 1 through 10 descriptions have been acknowledged. Please Advise

	Quantity	Unit	Unit Rate	Line Total
Subcontractors				
Van Maanen - FO #2	1	LS	\$ 12,159.82	\$ 12,159.82
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			SUBTOTAL	\$ 12,159.82

Labor				
Project Manager	2.0	mhr	\$ 184.36	\$ 368.72
Asistant Project Manager	0.0	mhr	\$ 90.96	\$ -
Safety Professional	0.0	mhr	\$ 94.33	\$ -
Superintendent - ST	0.0	mhr	\$ 104.76	\$ -
Superintendent - OT	0.0	mhr	\$ 157.14	\$ -
Foreman - ST	0.0	mhr	\$ 98.96	\$ -
Foreman - OT	0.0	mhr	\$ 148.44	\$ -
Carpenter - ST	8.0	mhr	\$ 98.96	\$ 791.68
Carpenter - OT	2.0	mhr	\$ 148.45	\$ 296.90
Operator (A) - ST	0.0	mhr	\$ 98.50	\$ -
Operator (A) - OT	0.0	mhr	\$ 147.75	\$ -
Operator (B) - ST	0.0	mhr	\$ 92.48	\$ -
Operator (B) - OT	0.0	mhr	\$ 138.72	\$ -
Laborer - ST	24.0	mhr	\$ 92.78	\$ 2,226.72
Laborer - OT	6.0	mhr	\$ 139.17	\$ 835.02
ATV Driver - ST	0.0	mhr	\$ 92.48	\$ -
ATV Driver - OT	0.0	mhr	\$ 138.72	\$ -
Truck Driver - ST	0.0	mhr	\$ 92.48	\$ -
Truck Driver - OT	0.0	mhr	\$ 138.72	\$ -
			SUBTOTAL	\$ 4,519.04

Equipment (without operator)				
General Conditions	day		\$2,224.60	\$0.00
Wendler Winter Conditions	day		\$2,000.00	\$0.00
Skidloader - Tracked/Rubber Tire	Hr		\$55.47	\$0.00
End loader - Rubber Tire	Hr		\$117.88	\$0.00
Telehandler	Hr		\$76.27	\$0.00
Excavator - Mini	Hr		\$62.41	\$0.00



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Excavator - 34,000 LB	Hr	\$97.08	\$0.00
Excavator - 68,000 LB	Hr	\$194.15	\$0.00
Vacuum Excavator - Trailer	Hr	\$97.08	\$0.00
Vacuum Excavator - Truck	Hr	\$277.37	\$0.00
110 Crawler Crane	Hr	\$343.23	\$0.00
Dozer	Hr	\$124.81	\$0.00
Water Pump	Hr	\$49.00	\$0.00
Compactor	Hr	\$55.47	\$0.00
Ground Heater	Hr	\$13.87	\$0.00
GPS Base/Rover/ Machine Control	Hr	\$76.27	\$0.00
Truck	Hr	\$14.00	\$0.00
Flatbed Truck	Hr	\$69.34	\$0.00
Boom Truck	Hr	\$173.35	\$0.00
Pump Truck	Hr	\$362.56	\$0.00
Dump Truck	Hr	\$80.00	\$0.00
Semi & Trailer	Mi	\$3.47	\$0.00
<i>SUBTOTAL</i>			<i>\$0.00</i>

Material

	\$	-	\$	-
	\$	-	\$	-
	\$	-	\$	-
	\$	-	\$	-
	<i>SUBTOTAL</i>		<i>\$</i>	<i>-</i>

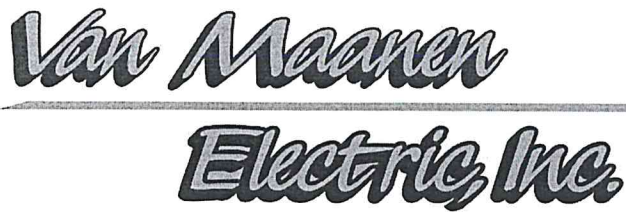
<i>C.A.R. SUBTOTAL</i>	<i>\$</i>	<i>16,678.86</i>
-------------------------------	------------------	-------------------------

Overhead, Subcontractors	5.00%	\$	607.99
Overhead, Self-Performed	15.00%	\$	677.86

<i>\$</i>	<i>17,964.71</i>
------------------	-------------------------

Bond	2.00%	\$	359.29
------	-------	----	--------

Total Proposed Change	<i>\$</i>	<i>18,324.00</i>
------------------------------	------------------	-------------------------



PROPOSAL REQUEST

Van Maanen Electric, Inc.

500 Iowa Speedway Drive
Newton, IA 50208
Telephone: 641-791-9473

CCN #

Date:

Project Name:

Project Number:

Page Number:

FO #2

8/20/2025

Grinnell Water Treatment Improvements

Grinnell Water Treatment Improvements

1

WRH, Inc.

Contact: Colton Singbeil
1648 T Ave
South Amana, IA 52334
E-mail: csingbeil@wendlerinc.com

Work Description

Scope: FO #2

Extend power and controls to new generator location. Exclude concrete pad.

Breakdown

Description	Qty
3/4" CONDUIT - PVC40	40
1" CONDUIT - PVC40	250
1 1/4" CONDUIT - PVC40	55
3" CONDUIT - PVC40	80
3/4" ELBOW 90 DEG - PVC40	1
1" ELBOW 90 DEG - PVC40	5
1 1/4" ELBOW 90 DEG - PVC40	1
3" ELBOW 90 DEG - PVC40	2
3/4" COUPLING - PVC	2
1" COUPLING - PVC	10
1 1/4" COUPLING - PVC	2
3" COUPLING - PVC	4
#14 THHN BLACK	900
#12 THHN BLACK	80
# 1 THHN BLACK	165
#350 THHN BLACK	320
# 8 THHN GREEN	55
# 1 THHN GREEN	80
EXCAVATION (24"X36" DEEP)	60
BACKFILL/COMP (24"X36" DEEP)	60
Totals	2,172

Summary

General Materials		4,030.62
LABOR	(81.11 Hrs @ \$80.67)	6,543.14
O&M	(@ 15.000 %)	1,586.06

Final Amount

\$12,159.82

Van Maanen Authorization:

Project Manager: Josh Hetzler

ORIGINAL

PROPOSAL REQUEST

Van Maanen Electric, Inc.

500 Iowa Speedway Drive
Newton, IA 50208

CCN #

Date:

Project Name:

Project Number:

Page Number:

FO #2

8/20/2025

Grinnell Water Treatment Improvements

Grinnell Water Treatment Improvements

2

Phone Number: 641-791-9473

E-mail: jhetzler@vanmaanenelectric.com

Signature: _____

Date: _____

8/20/25

WRH, Inc. Authorization

Name: Colton Singbeil

Signature: _____

Date: _____

ORIGINAL

Date of Issuance:	4/29/2025	Effective Date:	4/29/2025
Owner:	City of Grinnell	Owner's Contract No.:	N/A
Contractor:	WRH, Inc.	Contractor's Project No.:	2402-00-1445
Engineer:	McClure	Engineer's Project No.:	2022000116-003
Project:	Water System Improvements 2023 Water Treatment Plant	Contract Name:	Water System Improvements 2023 Water Treatment Plant

Contractor is hereby directed to promptly perform the Work described in this Field Order, issued in accordance with Paragraph 11.04 of the General Conditions, for minor changes in the Work without changes in Contract Price or Contract Times. If Contractor considers that a change in Contract Price or Contract Times is required, submit a Change Proposal before proceeding with this Work.

Reference:	43 23 32, 43 41 43, 43 41 63, 43 42 00, 46 63 23, and 46 63 23	WT-H8, W10-P1, W9-C1, W9-C3, and CW-01
	Specification(s)	Drawing(s) / Detail(s)

Description:

Specifications (see attached revised specification pages for reference):

1. Section 43 23 32, Item 1.3.I: Revised to "monochloramine" from "free chorine".
2. Section 43 41 43, Item 2.4.A: Day tank capacity clarified as 30-gallon and to 50-gallon for hypochlorite and hydroxide.
3. Section 43 41 63, Item 2.9.A.3: Revised to include two roof access hatches. See attached Drawing CW-01 for clarification.
4. Section 43 42 00, Item 1.1.A: Revised to include "two (2), one each at Well 8 and Well 9"
5. Section 46 63 23, Item 2.4.3.a: Revised to include "and a minimum rated capacity of 6 liters."
6. Section 46 63 23, Item 2.4.B.10: Revised to list antiscalant as Avista 204.

Plans (see attached revised drawing sheets for reference):

7. WT-H8: Revised chemical feed skid label to "SODIUM HYDROXIDE" from "SODIUM HYPOCHLORITE".
8. W10-P1, Note 2: Revised to "A MINIMUM RADIUS OF 15' " from "A MINIMUM RADIUS OF 10".
9. W9-C1 and W9-C3: Revised to show Well 9 generator and concrete pad at 50' distance from Well 9 wellhead.
10. CW-01: Revised to clarify location of roof hatches and add Note 4 to provide access to hatches using safety cables.

Attachments:

Revised Specification pages 43 23 32-2, 43 41 43-4, 43 41 63-8, 43 42 00-1, 46 63 23-15, and 46 63 23-16
Revised Drawings Nos. WT-H8, W10-P1, W9-C1, W9-C3, and CW-01

ISSUED:

RECEIVED:

By: **Jen Collens**

By:

Engineer (Authorized Signature)

Contractor (Authorized Signature)

Title: Staff Engineer

Title:

Date: 4/29/2025

Date:

Copies to: File.

F. Pumps are to be NSF 61 and NSF 372 certified by the manufacturer.

1.3 **PERFORMANCE**

A. The pumps shall be designed for continuous operation and will be operated continuously under normal service.

B. Operation Criteria:

	Flow (GPM)	TDH (ft.)	Max. Pump Speed – Nominal (RPM)	Max. Solids Passage (in.)	Min. Shutoff Head (ft.)	Pump overall Efficiency (%) at design Point
Design Condition	1050	163	1,800	0.68	200	77% ±1%

C. Total dynamic head shall be as measured at the discharge of the pump and shall include velocity head and vertical static head from the minimum water level to the centerline of the pump discharge.

D. Minimum water level shall be at elevation 1004.00 feet.

E. Pump(s) are to be mounted at elevations shown on drawings.

F. Pump discharge centerline shall be at elevation shown on drawings.

G. Maximum pump speed shall not exceed 1770 RPM.

H. Driver size shall be limited to 100 HP maximum.

I. Liquid pumped is potable finished water with  residual and maximum temperature of 70 deg. F.

*Field Order No. 2

PART 2 - PRODUCTS

2.1 **PUMPS**

A. Manufacturers

1. Pumps shall be the product of:
 - a. Pentair/Fairbanks Nihhuis.
2. Manufacturer shall have installations of like or similar application with a minimum of 5 years service for this pump size.

B. Design

1. Rotation
 - a. The pump will be counterclockwise rotation when viewed from the driver end looking at the pump.
2. Impeller
 - a. The impeller shall be 316 Stainless Steel or nickel aluminum bronze conforming to NSF61. They shall be of one-piece construction, single suction, and radial flow design. The waterways through the impeller

Where: T = wall thickness, in
P = pressure, psi
SG = specific gravity, gm/cc
H = fluid head, ft
OD = outside diameter, ft
SD = hydrostatic design stress, 600 psi

- a. The minimum wall thickness shall be sufficient to support its own weight in an upright position without external support but shall not be less than 0.187" thick.
2. On closed top tanks the top head shall be integrally molded with the cylindrical wall. Its minimum thickness shall be equal to the thickness of the top of the straight sidewall. In most cases, flat areas shall be provided for attachment of large fittings on the dome of the tank.
3. If bottom head is integrally molded with the cylindrical wall. Knuckle radius shall be:

Tank Diameter, ft	Min Knuckle Radius, in
less than or equal to 6	1
greater than 6	1-1/2

D. Tank colors shall be natural un-pigmented.

2.4 TANKS

A. Tank characteristics shall be per the following schedule:

CHEMICAL SERVICE	12.5% Sodium Hypochlorite	30% Sodium Hydroxide	Ortho/Poly Phosphate
BULK TANK			
Quantity	One (1)	Two (2)	One (1)
Nominal Capacity (gallons)	900	900	200
Diameter (feet)	≤5'-8"	≤5'-8"	≤2'-8"
Height (feet)	≤7'-0"	≤7'-0"	≤6'-6"
Color	Natural	Natural	Natural
Resin	HDLPE or XLPE**	HDLPE or XLPE	HDLPE or XLPE
Fitting Material	PVC	PVC	PVC
Gasket Material	Viton	EPDM	EPDM
Bolt Material	Titanium	316 SS	316 SS
DAY TANK			
Quantity	One (1)	One (1)	One (1)
Nominal Capacity (gallons)	30	50	10
Diameter (feet)	≤2'-3"	≤3'-0"	≤2'-3"
Height (feet)	≤2'-8"	≤2'-8"	≤2'-8"
Color	Natural	Natural	Natural
Resin	HDLPE or XLPE**	HDLPE or XLPE	HDLPE or XLPE
Fitting Material	PVC	PVC	PVC
Gasket Material	Viton	EPDM	EPDM
Bolt Material	Titanium	316 SS	316 SS

**For Sodium Hypochlorite, if XLPE resin is used, tank resin shall include an antioxidant polyethylene system such as OR-1000 from PolyProcessing.

*Field Order No. 2

2.8 DECORATIVE COATING

- A. Decorative coating shall be applied to the exterior dome surface using 1-coat of a cementitious based damp-proofing product such as "Tamoseal;" or equivalent, and 1-coat of a non-cementitious, high build, 100 percent acrylic resin polymer such as "Tammscoat Smooth" textured protective coating; or equivalent.
- B. Decorative coating shall be applied to the exterior wall surfaces using 2-coats of a non-cementitious, high build, 100 percent acrylic resin polymer such as "Tammscoat Smooth" textured protective coating; or equivalent.
- C. Owner shall select the color.

2.9 APPURTENANCES

- A. Contractor shall provide and install all appurtenances as shown on the Drawings. Appurtenances shall include the following:
 - 1. One 16-inch diameter inlet pipe, One 6-inch diameter inlet pipe, One 16-inch diameter outlet pipe.
 - 2. Overflow piping and weir: To be determined by contractor based on overflow rates provided
 - 3. Roof hatch (Qty: 2 ^{*Field Order No. 2} above water line required) 42-inch minimum square aluminum hatch with lockable, hinged cover and curb frame. Hatch shall have a lift handle, padlock tab, padlock and a cover hold open mechanism. All hardware shall be aluminum or stainless steel. Locate hatch as shown on Drawings. Hatch shall be framed at least four inches above the surface of the roof at the opening. Hatch shall be fitted with a solid watertight cover which overlaps the framed opening and extends down around the frame at least two inches.
 - 4. Roof ventilator: Fiberglass or aluminum, with fiberglass insect 24-mesh screen, minimum diameter 2-feet, extended 24" above roof.
 - 5. Interior ladders: FRP ladder shall extend from the floor to the hatch. Ladder shall have a fall prevention device attached consisting of a sliding, locking mechanism and safety belt and complying with applicable OSHA standards. Location as shown on the Drawings. An interior ladder will also be extending from the manway to the floor.
 - 6. Exterior ladder: Aluminum ladder shall extend from 8-feet above the final grade to the tank roof. Ladder shall have an OSHA-approved fall prevention device (if required) consisting of a sliding, locking mechanism and safety belt. Location as shown on the Drawings.
 - 7. Access manway: Circular 31-inch diameter Type 304 stainless steel wall manway with a hinged cover. ^{Type 304 stainless steel grab bar and an aluminum ladder} shall be installed at the manway location extending from the manway to the floor. Locate access manway as shown on Drawings.
 - 8. Floor sump: A 3-foot square by 5-inch deep sump shall be provided in the tank floor.
 - 9. Dome Sleeve: Two (2) 8-inch dome sleeves.
 - 10. Hand Rail: Aluminum handrail placed as shown on Drawings.
 - 11. Provide for installation of ultrasonic level indication in dome sleeve, and level transmitter.
 - 12. Install two ½-inch eye bolts and connected 316 SS safety line to access dome vent, system should meet OSHA safety requirements.

FOR
CLARIFICATION
THERE ARE
TWO ROOF
HATCHES

*Field Order No. 2

SECTION 43 42 00

SURGE RELIEF VESSELS

INDEX

PART 1 – GENERAL

- 1.1 Scope
- 1.2 Submittals
- 1.3 Surge Analysis

PART 2 – PRODUCTS

- 2.1 Surge Relief Vessel

PART 3 –EXECUTION

- 3.1 Installation
- 3.2 Manufacturers Services
- 3.3 Field Testing

PART 1 - GENERAL

1.1 SCOPE

- A. The work described by this section of specifications consists of furnishing all equipment, materials, and labor to provide, install and test two (2) vertical, inverted bladder-type surge relief vessels for raw water surge control as shown on the Contract Drawings and specified in the Contract Documents, one each at Well No. 8 and Well No. 9.

1.2 SUBMITTALS

*Field Order No. 2

- A. See Section 01 33 00, Submittals, for additional requirements. The following items shall also be included in the submittals:
 - 1. Layout drawings shall be submitted and include the dimensions of all equipment, accessories, supports, connections, outlets, and all related piping.
 - 2. Equipment weights and anchor bolt designs.
 - 3. Complete transient analysis of the system clearly showing transient pressures with and without the surge relief vessel incorporated into the system.
 - 4. Insulation Product data:
 - a. Insulation properties: Include K factor, thickness, density, operating temperature limits, tensile strength, compressive strength, moisture absorption, flame spread, and smoke developed in accordance with ASTM E84 and corrosivity to stainless steel piping in accordance with ASTM C795.
 - b. Jacket properties: Include covering material, cover thickness, tensile strength, tear strength, permeability in accordance with ASTM E96, flame spread, and smoke developed in accordance with ASTM E84, closure type or devices, and accessories.
 - c. Insulating blankets: Include materials, performance characteristics, method of attaching to equipment, listing of locations where insulating blankets will be installed.
 - d. Manufacturer's application instructions: Include assembly and application drawings and detailed instructions.

3. Cartridge Filter: Provide one (1) shared 316L stainless steel cartridge prefilter housing and filter elements sized for the design cleaning solution feed rate and in accordance with the requirements of Paragraph 2.2.B of this section. Housing shall be passivated and electropolished.
 4. CIP Pump: Provide one (1) stainless steel end suction centrifugal or vertical turbine cleaning solution feed pump with all stainless steel wetted parts.
 - a. Pump size shall be 45 gpm/housing, at 60 psi discharge pressure. TEFC, premium efficiency, 460 volt, 3 Phase, 25hp inverter duty motor. Goulds e-SV or equal.
- C. The CIP shall be designed to clean the membrane treatment skids in three steps: the piping within the first stage shall be valved so that the first stage will be cleaned in two steps, and the second stage will be cleaned in the third step. Manual butterfly type valves shall be installed to prevent flow while changing locations or during soaking operations.
- D. The use of flexible hoses to connect CIP skid to membrane treatment skids WILL NOT be acceptable.
- E. Provide double block and bleed valves, including isolation valves on main lines and ¾" bleed valve in between main line valves, on the total permeate line and at each cleaning system connection point to the skid. This shall include: total permeate, 1st stage cleaning feed, 1st stage cleaning return, 2nd stage cleaning feed, 2nd stage cleaning return, and cleaning permeate return, to prevent accidental contamination of treated water during cleaning operations.
- F. The CIP System shall have all instrumentation required by Paragraph 1.7 of this section.
- G. Schedule 80 PVC or CPVC pipes shall be used for the transport of fluids.
- H. The discharge piping of the CIP pump shall contain a recirculation line with manual PVC valves to circulate water back to the CIP tank for mixing and flow balancing.
- I. Permeate Flush Equipment
1. The Permeate Flush process will be accomplished utilizing the CIP equipment specified above.
 2. Individual skids' first stage cleaning valve shall be motor-operated to permit automated permeate post-flushing.

2.4 **ANTISCALANT FEED SYSTEM EQUIPMENT**

- A. Antiscalant Feed Skid
1. Each antiscalant feed skid shall be completely assembled, mounted, calibrated, tested, and delivered to the site. Components to be mounted on the skid are as indicated on the drawings and shall include the metering pumps, calibration column, piping, valves, and piping accessories integral to the skid.
 2. All components of the skid-mounted system (pumps, piping, and controls) shall be tested prior to shipment.
 3. Calibration Chamber: Provide one, calibration chamber per chemical feed pump with vent, for use in calibrating the metering pumps.
 - a. The chamber shall be sized to provide adequate capacity for a minimum 60 second draw down test and a minimum rated capacity of 6 liters.
 - b. The scale shall give direct readings in GPH and ML/MIN without the need for calculations.

- c. The calibration chamber shall be piped and valved so that each pump shall be able to utilize the calibration chamber without interfering with the operation of the other pumps.
- d. The top of the chamber shall have a fitting to allow for proper venting.
- e. Material shall be PVC with CPVC end cap.

B. Diaphragm-Type Metering Pumps

- 1. Chemical metering pumps shall be Mechanically Actuated Diaphragm, positive displacement, motor driven, metering pump.
- 2. Chemical metering pump shall be driven by a microprocessor-controlled stepper motor providing a minimum of 3000:1 turndown ratio. The stepper motor is to be coupled to a flat, PTFE diaphragm via a gear assembly. The drive assembly shall be a maintenance free design.
- 3. The pump shall operate at 100% stroke length throughout the pump's entire capacity range.
- 4. Solenoid-driven pumps, hydraulically actuated diaphragm pumps and those with a lost motion spring return will not be accepted.
- 5. The liquid end & valve design shall provide for ease of maintenance. Ball checks shall be cartridge type design.
- 6. The pump shall be able to measure actual flow through the head to monitor the dosing process without need for additional measuring equipment.
- 7. The pump shall be able to compensate automatically for pressure fluctuations on the injecting point, maintaining the flow rate constant.
- 8. Each pump shall have a maximum capacity of 7.5 l/h (2 GPH) at 16 bar (230 PSI).
- 9. Each unit shall be Grundfos DDA FCM Series digital dosing pumps.
- 10. Operating conditions and materials of construction schedule:

SERVICE	
Chemical	Avista 204 *Field Order No. 2
Concentration (%)	N/A
Specific Gravity	1.05
Temperature (F)	60°-100°
SYSTEM REQUIREMENTS	
Number of Pumps (Qty.)	3
Design Feed Rate (GPH)	0.05
Suction Head (feet)	3-5.5
Power (VAC, Frequency, Phase)	120V, 60Hz, 1 phase

- 11. Enclosure
 - a. Drive mechanism and microprocessor shall be housed in a corrosion resistant, plastic UV stabilized enclosure.
 - b. The pump design shall include provisions for optional positioning of the control interface/display, for right/left side and front mounting.
 - c. Pump enclosure rating shall be to IP65 and NEMA 4X standards.
 - d. The pump design shall include an integral removable click stop mounting plate, to allow for flat base or wall mounting.
- 12. Drive
 - a. An integral variable speed stepper motor shall be used to ensure the pump discharge phase extends throughout the full period between suction intervals.
 - b. Variable frequency drives shall not be accepted.
 - c. The motor shall be integral, supplied with a power cord, plug and receptacle.

NOTICE:
McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans and Specifications.

IOWA CERTIFICATE OF AUTHORITY NO. 26887

REVISIONS		
△	FIELD ORDER #2 (April)	
PROJECT INFO		
2022000116-003		
09-12-24		
ENGINEER	DRAWN BY	CHECKED BY
TWW	KJC	JMC

WATER SYSTEM IMPROVEMENTS 2023

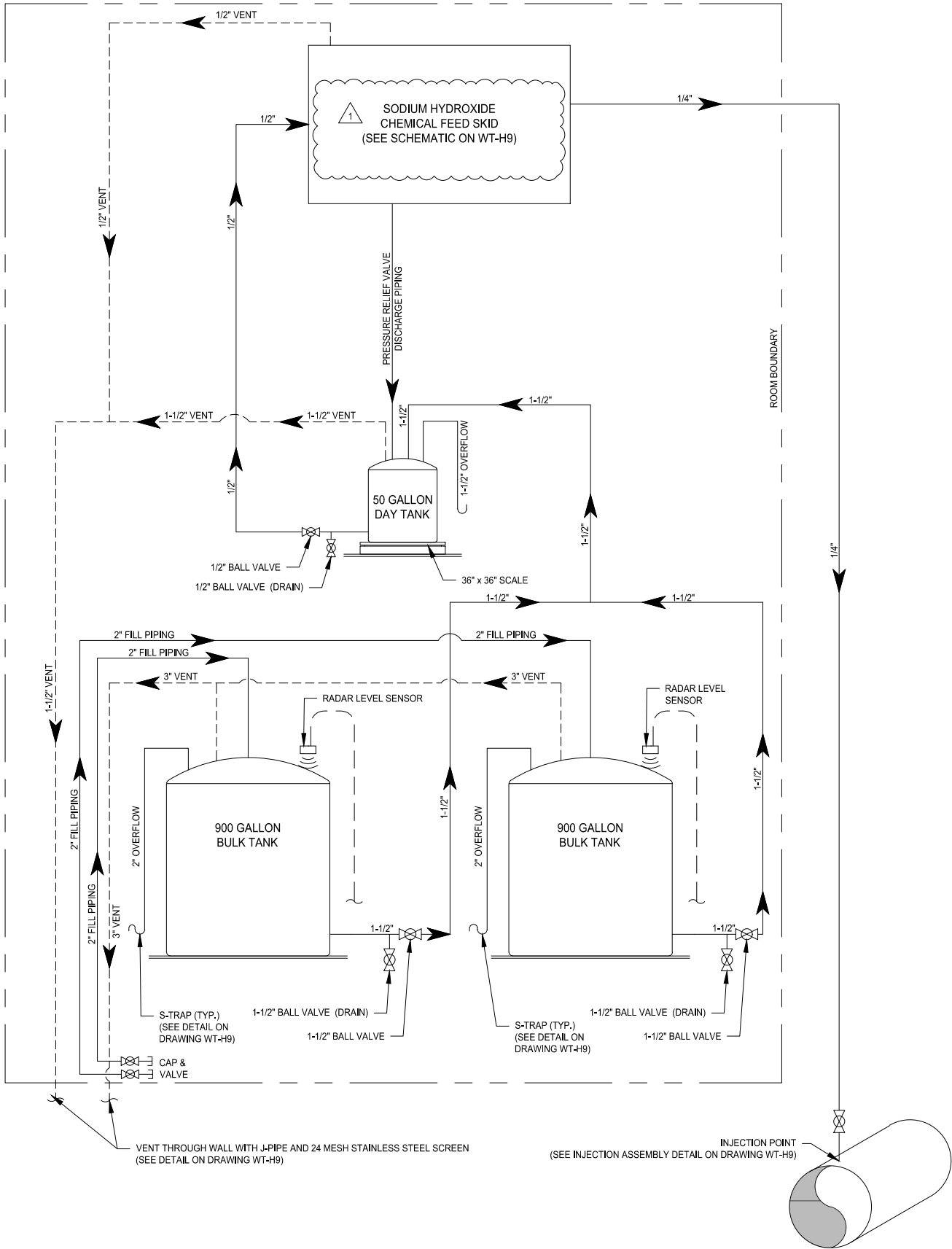
WATER TREATMENT PLANT

GRINNELL, IOWA

SODIUM HYDROXIDE FEED

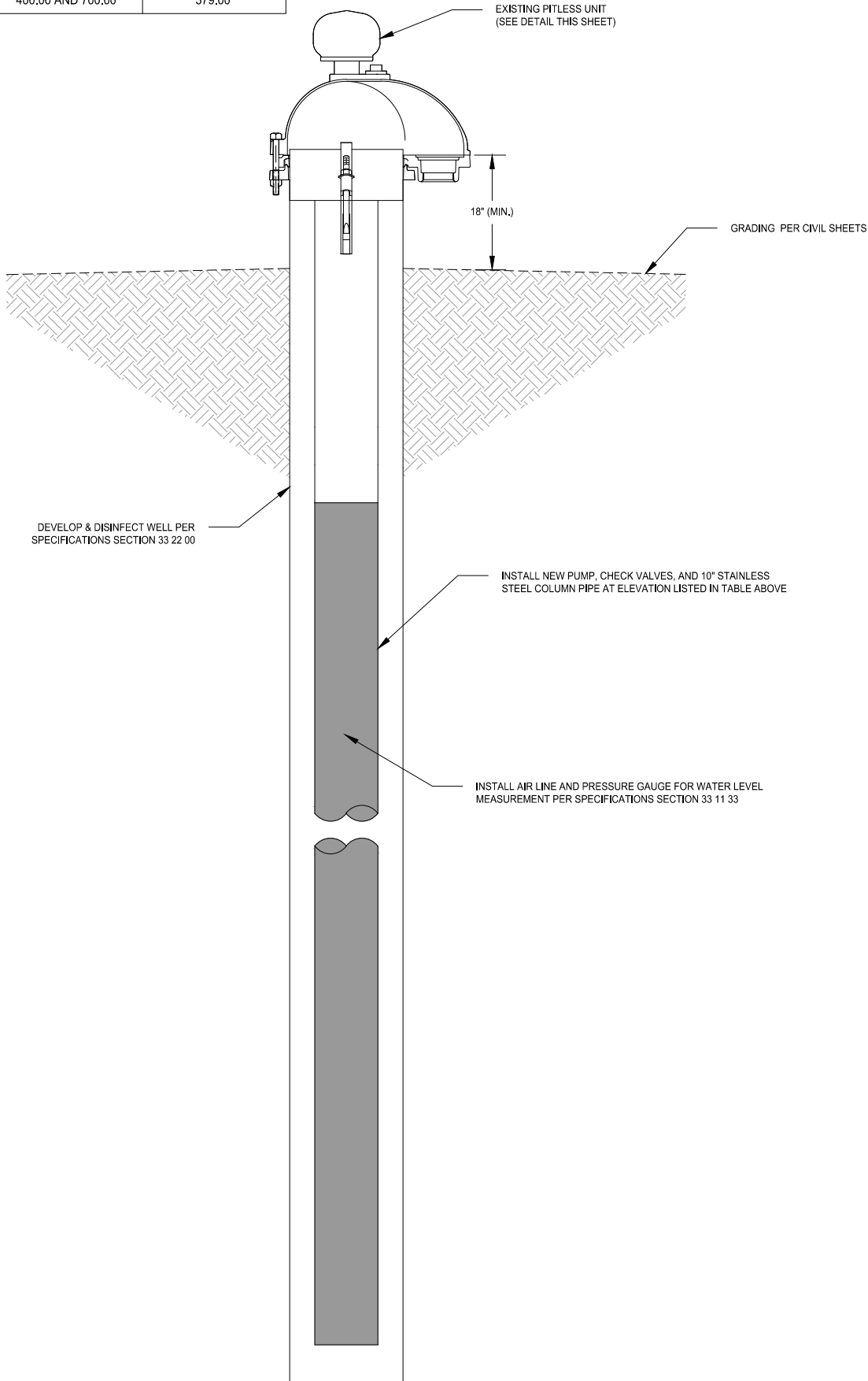
SCHEMATIC

P:\2022000116-003\04-DRAWINGS\05-PLANS\WT-H8.DWG - 2023-8-11



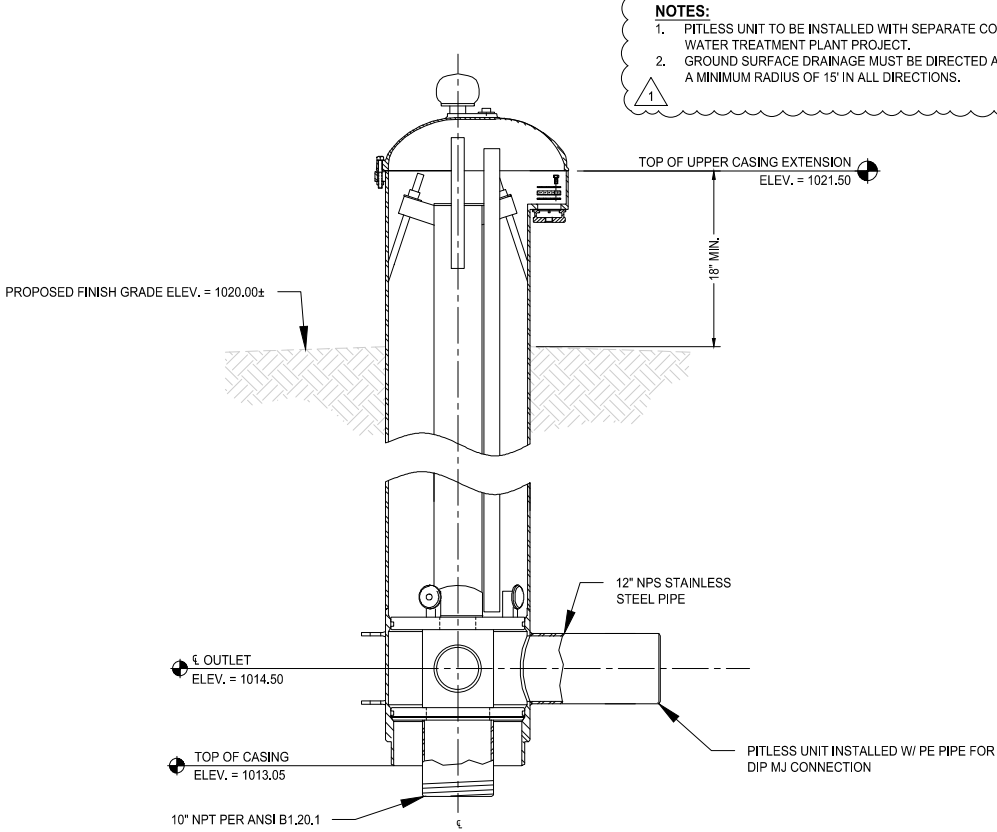
SODIUM HYDROXIDE SCHEMATIC

WELL NO.	GROUND ELEVATION	CHECK VALVES ELEVATION	PUMP ELEVATION
10	1020.00 ±	400.00 AND 700.00	379.00



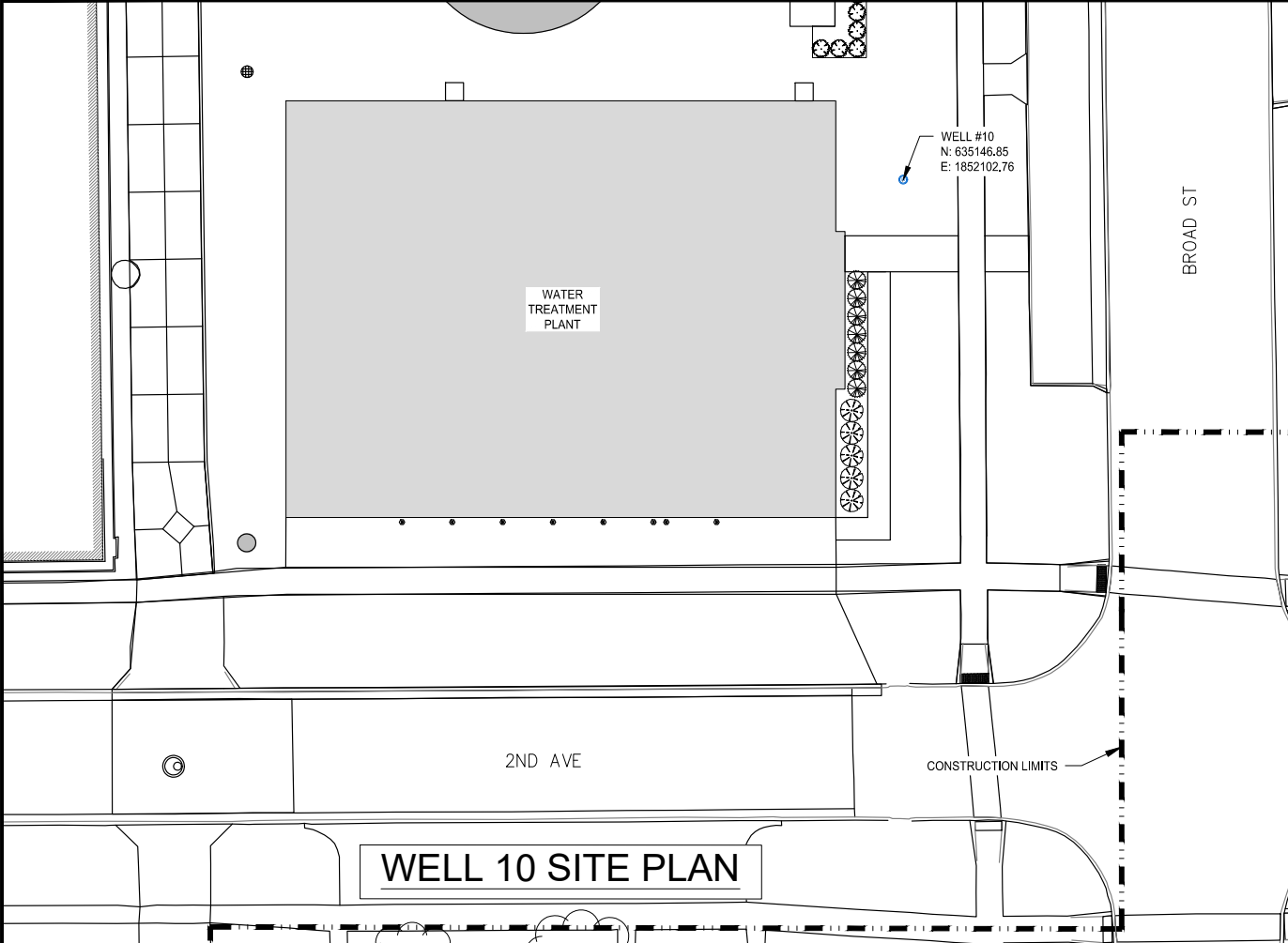
WELL 10 RENOVATION

NOT TO SCALE



EXISTING WELL 10 PITLESS UNIT

NOT TO SCALE



- NOTES:
1. PITLESS UNIT TO BE INSTALLED WITH SEPARATE CONTRACT PRIOR TO WATER TREATMENT PLANT PROJECT.
 2. GROUND SURFACE DRAINAGE MUST BE DIRECTED AWAY FROM WELL FOR A MINIMUM RADIUS OF 15' IN ALL DIRECTIONS.

McCLURE™

1360 NW 121st Street
Clive, Iowa 50325
P 515-964-1229
F 515-964-2370

Ankeny, IA | Carroll, IA | Clive, IA
Cedar Rapids, IA | Fort Dodge, IA
Coralville, IA | Sioux City, IA
Macon, MO | Columbia, MO
North Kansas City, MO
Lenexa, KS

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IOWA CERTIFICATE OF AUTHORITY NO. 26887

North Arrow

0 10 20 40

SCALE: 1" = 20'-0" (FULL SIZE)
SCALE 1" = 40'-0" (HALF SIZE)

REVISIONS		
△	FIELD ORDER #2 (April)	
PROJECT INFO		
2022000116-003		
09-12-24		
ENGINEER	DRAWN BY	CHECKED BY
TWW	KJC	JMC

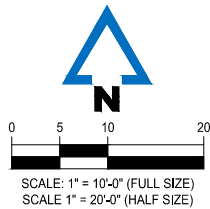
WATER SYSTEM IMPROVEMENTS 2023
WATER TREATMENT PLANT
GRINNELL, IOWA
WELL 10 PUMP AND COLUMN PIPE
INSTALLATION

P:\2022000116-003\04-DRAWINGS\05-PLANS\WELL 10 DWG - 2023-12-18

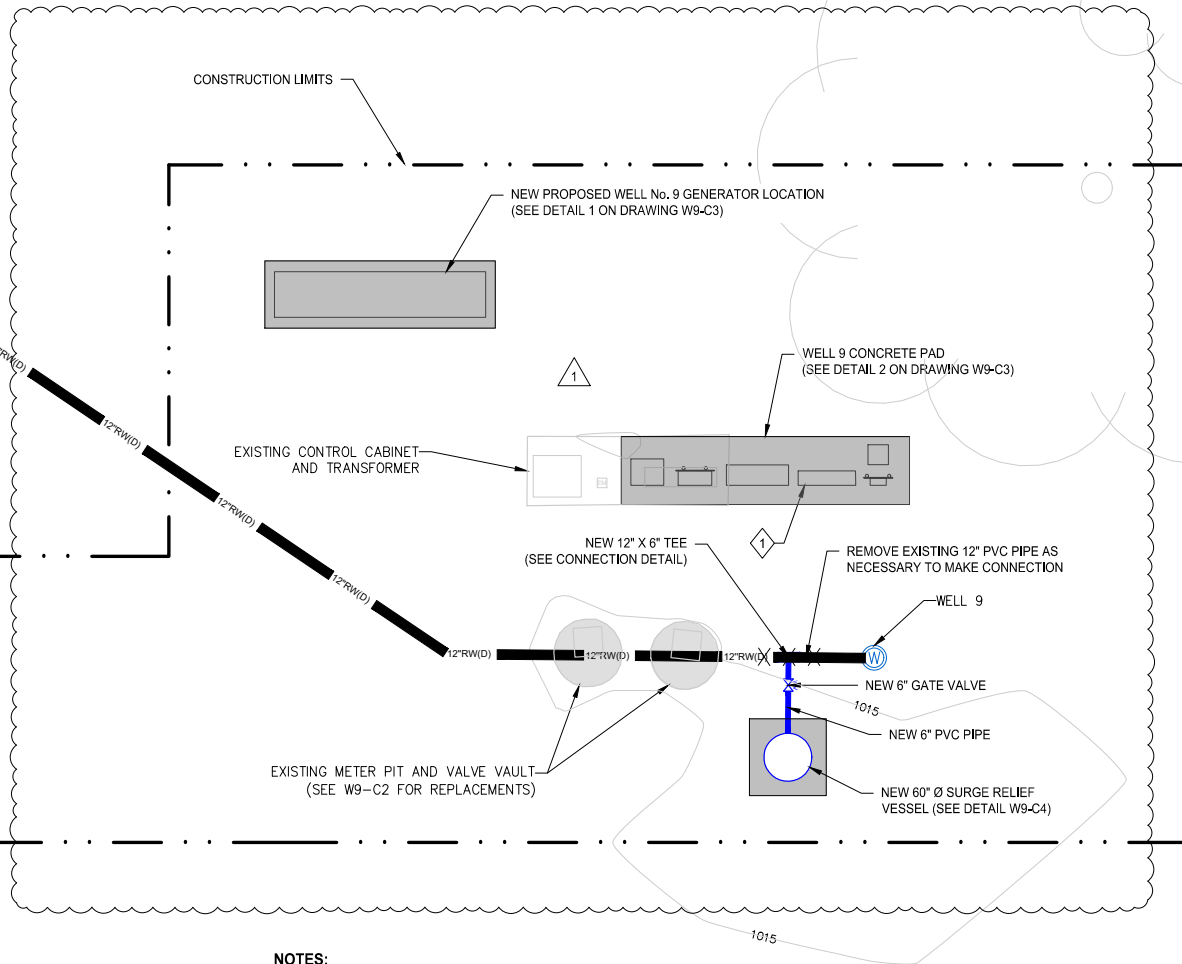
DRAWING NO. SHEET NO.
W10-P1 24 / 158

- GENERAL NOTE:
- COORDINATE EQUIPMENT OUTAGES WITH OWNER PRIOR TO TAKING EQUIPMENT OUT OF SERVICE.
 - SEE SHEETS W9-E1 AND W9-E2 FOR ELECTRICAL EQUIPMENT DETAILS.

PROPERTY OWNER:
JAMES & SANDRA VANDRASKA 1204
WASHINGTON AVE
GRINNELL, IA 50112

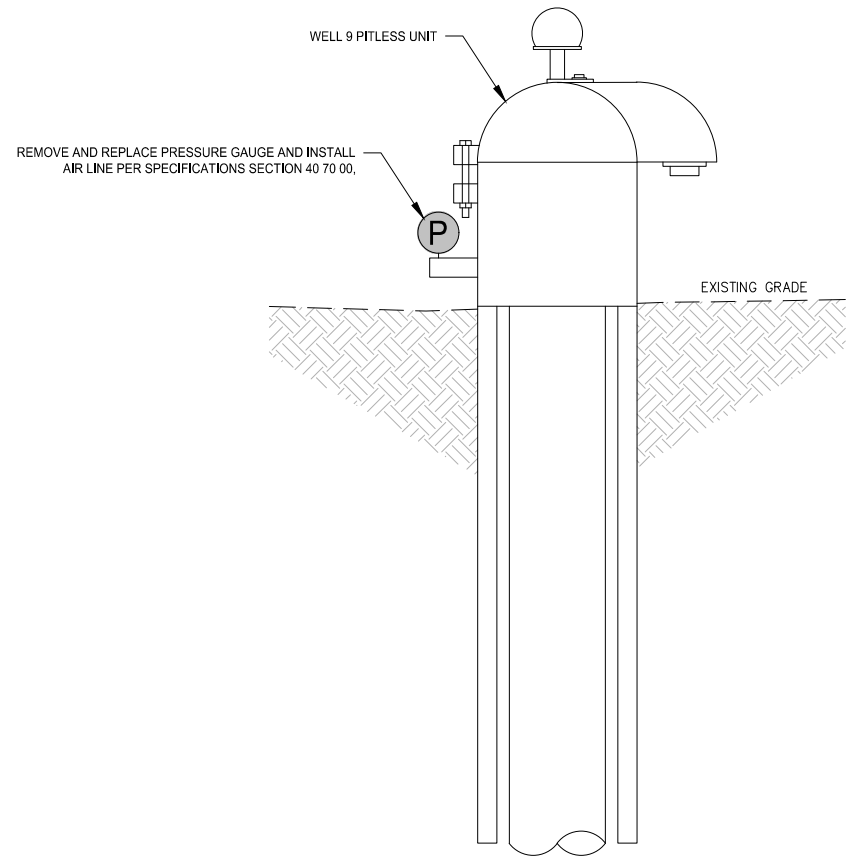


PROPERTY OWNER:
CINDRA PORTER
1210 WASHINGTON AVE
GRINNELL, IA 50112



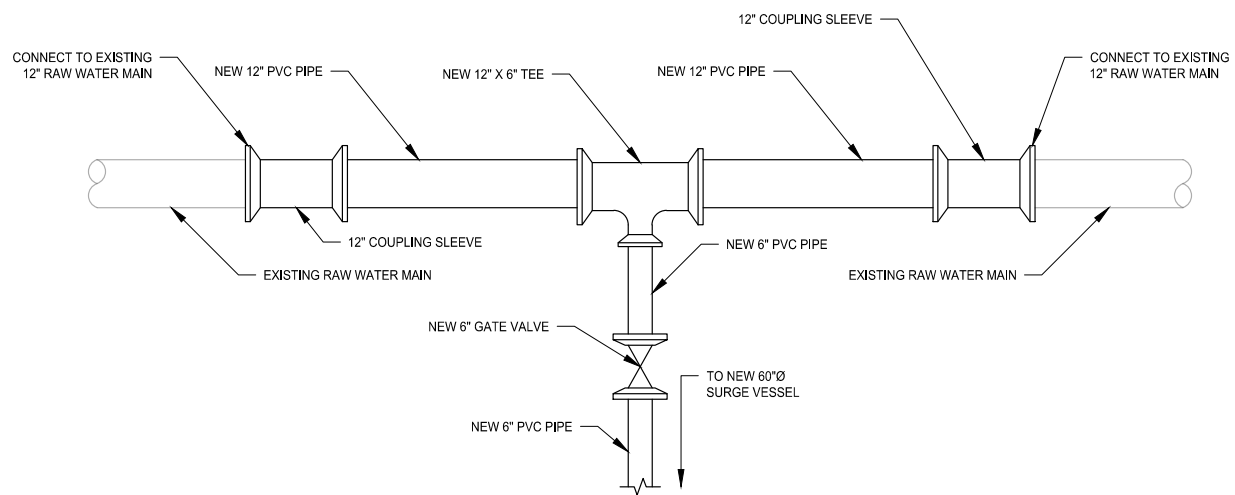
- NOTES:
- MOUNT WELL 9 FLOW METER REMOTE TRANSMITTER IN NEW WELL 9 SCADA PANEL.

PROPERTY OWNER:
CITY OF GRINNELL
1110 WASHINGTON AVE
GRINNELL, IA 50112



PRESSURE GAUGE REPLACEMENT

NOT TO SCALE



CONNECTION DETAIL

SCALE: 1/2" = 1'-0" (FULL SIZE)
SCALE: 1/4" = 1'-0" (HALF SIZE)

McCLURETM
1360 NW 121st Street
Clive, Iowa 50325
P 515-964-1229
F 515-964-2370

Ankeny, IA | Carroll, IA | Clive, IA
Cedar Rapids, IA | Fort Dodge, IA
Coralville, IA | Sioux City, IA
Macon, MO | Columbia, MO
North Kansas City, MO
Lenexa, KS

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IOWA CERTIFICATE OF
AUTHORITY NO. 26887

REVISIONS
△ FIELD ORDER #2 (April)

PROJECT INFO
2022000116-003
09-12-24
ENGINEER: TWW
DRAWN BY: KJC
CHECKED BY: JMC

WATER SYSTEM IMPROVEMENTS 2023
WATER TREATMENT PLANT
GRINNELL, IOWA
WELL 9 EXISTING SITE PLAN &
RENOVATIONS
P:\2022000116-003\04-DRAWINGS\05-PLANS\W9-C1-X1.DWG - 2024-9-3

DRAWING NO. W9-C1
SHEET NO. 18 / 158

NOTICE:
McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans and Specifications.

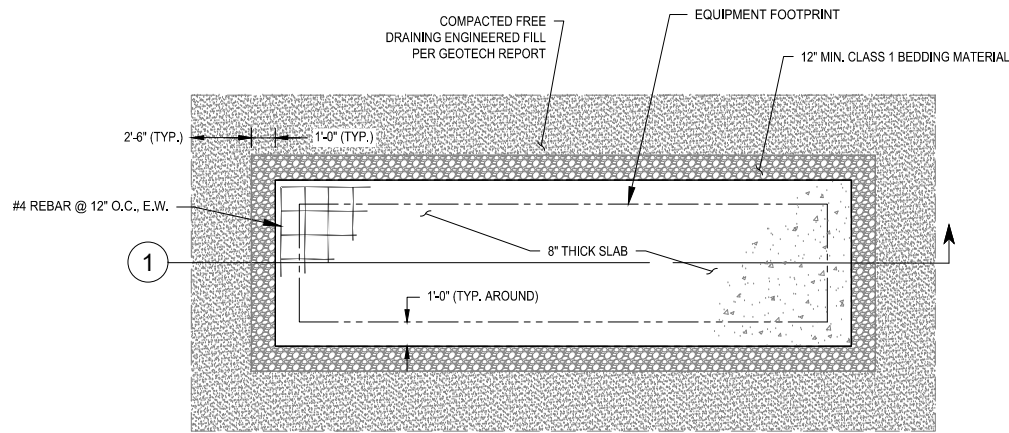
IOWA CERTIFICATE OF
AUTHORITY NO. 26887

REVISIONS
△ FIELD ORDER #2 (April)

PROJECT INFO
2022000116-003
09-12-24
ENGINEER TWW DRAWN BY KJC CHECKED BY JMC

WATER SYSTEM IMPROVEMENTS 2023
WATER TREATMENT PLANT
GRINNELL, IOWA
WELL 9 CONCRETE PAD DETAIL

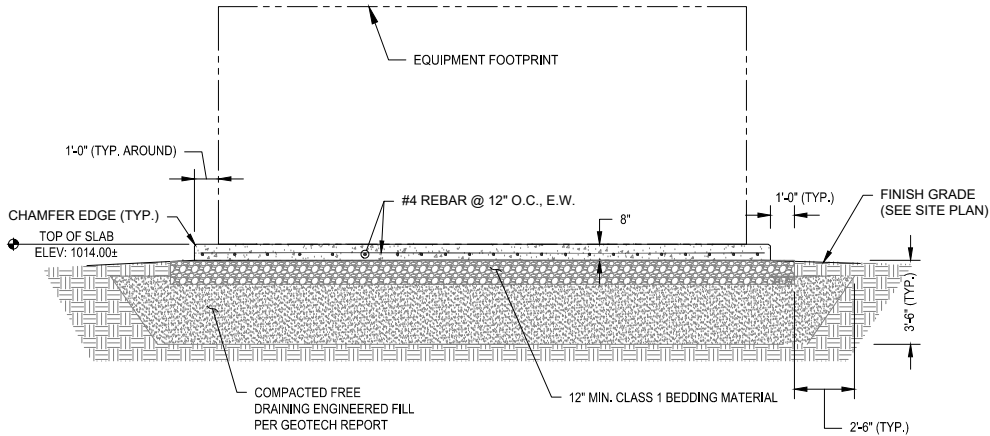
DRAWING NO. W9-C3 SHEET NO. 20 / 158



WELL 9 CONCRETE GENERATOR PAD PLAN

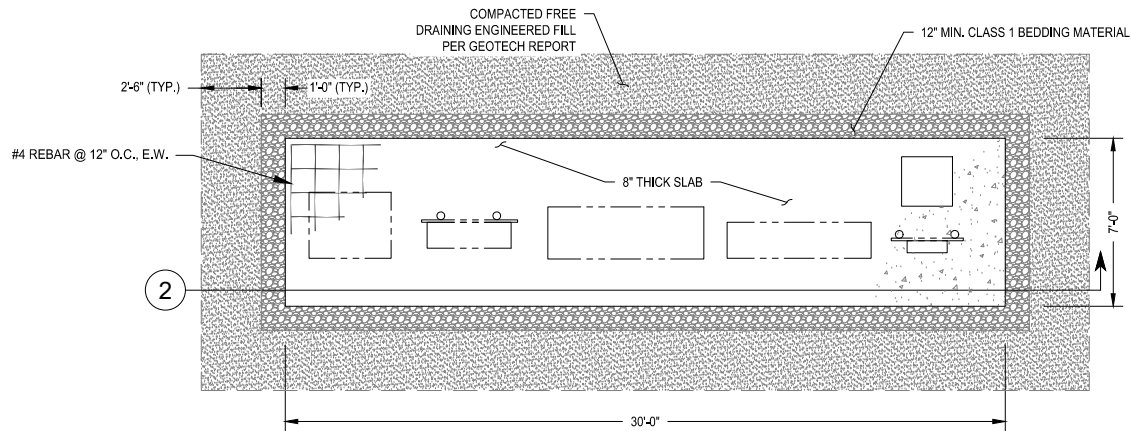
0 2 4 8
SCALE: 1/4" = 1'-0" (FULL SIZE)
SCALE: 1/8" = 1'-0" (HALF SIZE)

1



GENERAL NOTES:
1. GENERATOR, WIRE, AND CONDUIT SUBMITTALS MUST BE APPROVED BY ENGINEER BEFORE WORK CAN BEGIN ON THE GENERATOR PAD.
2. COORDINATE OPENINGS IN THE SLAB FOR ELECTRICAL PENETRATIONS WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS.

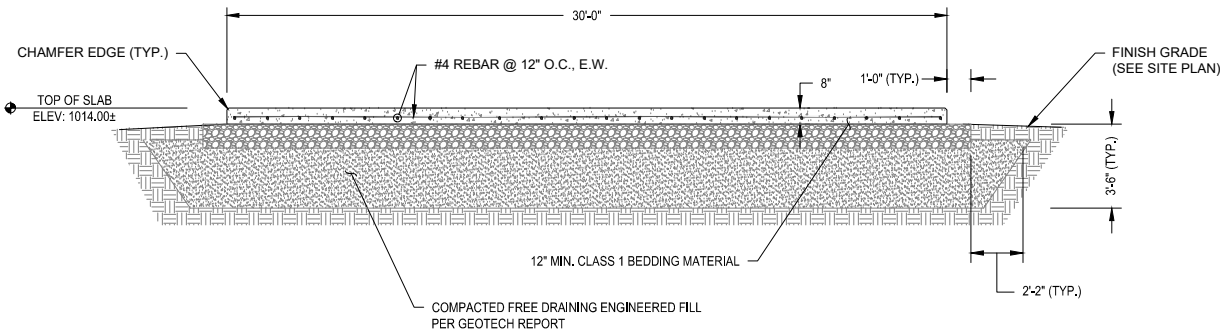
1 WELL 9 CONCRETE GENERATOR PAD SECTION



WELL 9 CONCRETE PAD PLAN

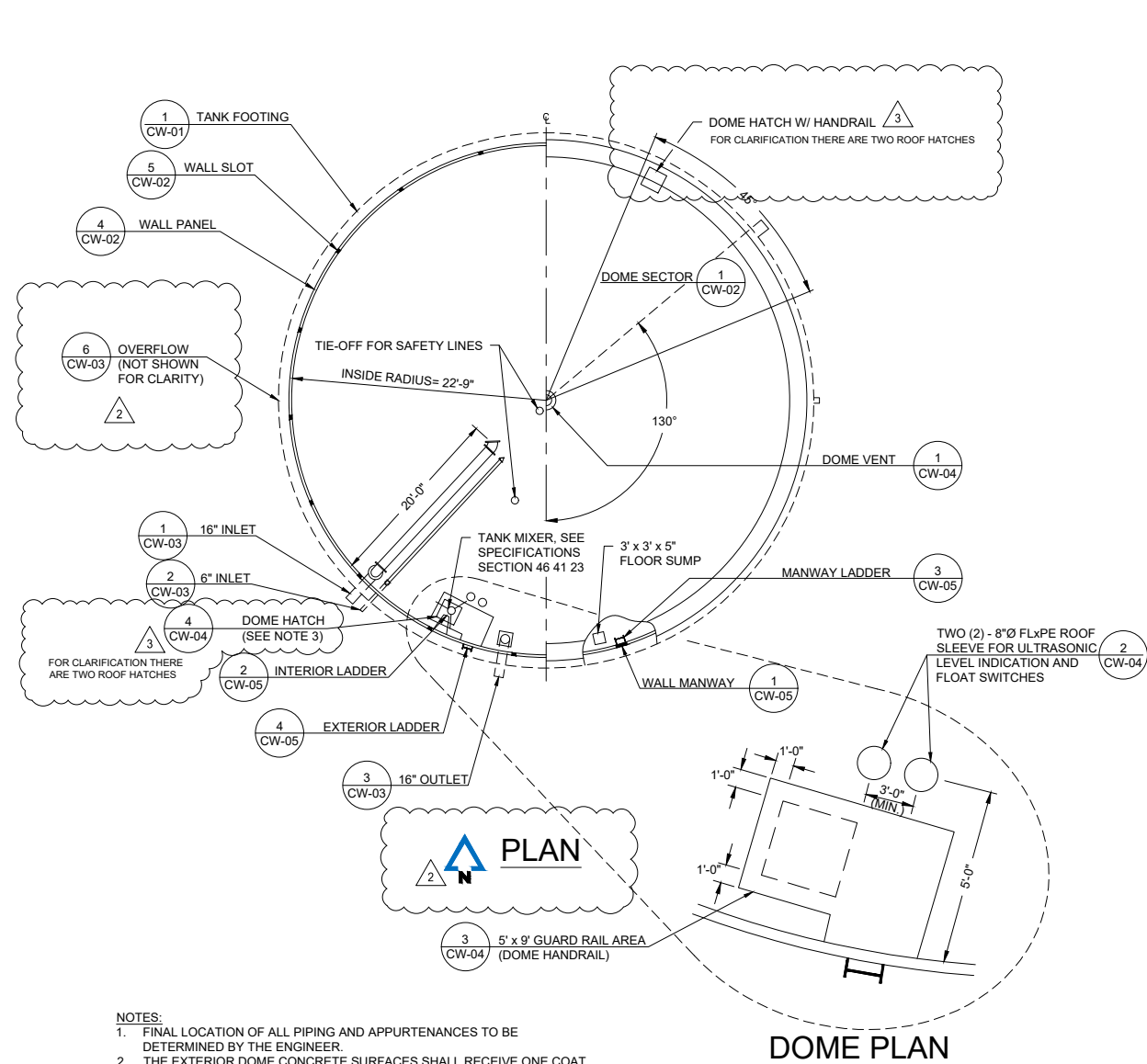
0 2 4 8
SCALE: 1/4" = 1'-0" (FULL SIZE)
SCALE: 1/8" = 1'-0" (HALF SIZE)

1

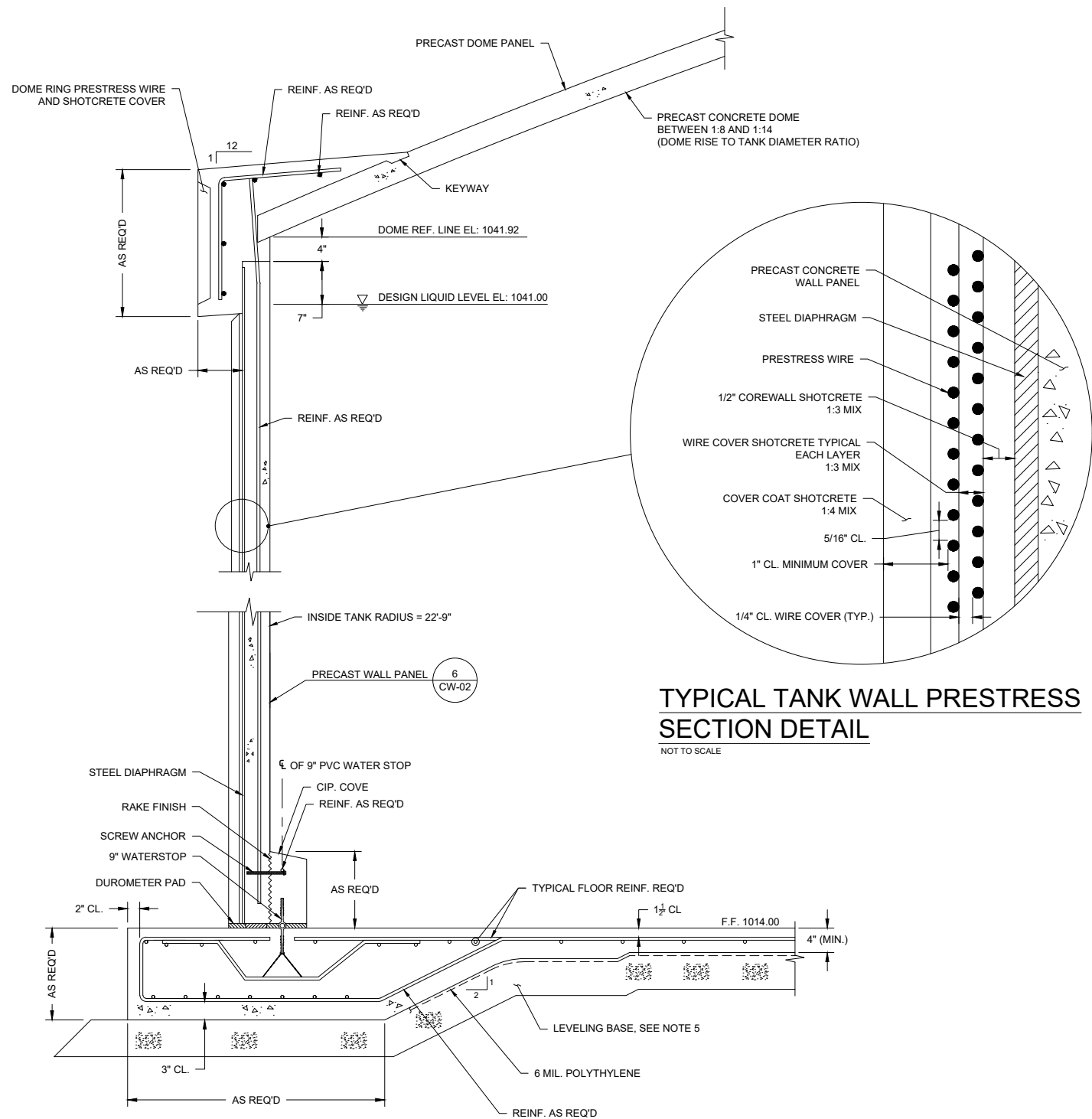
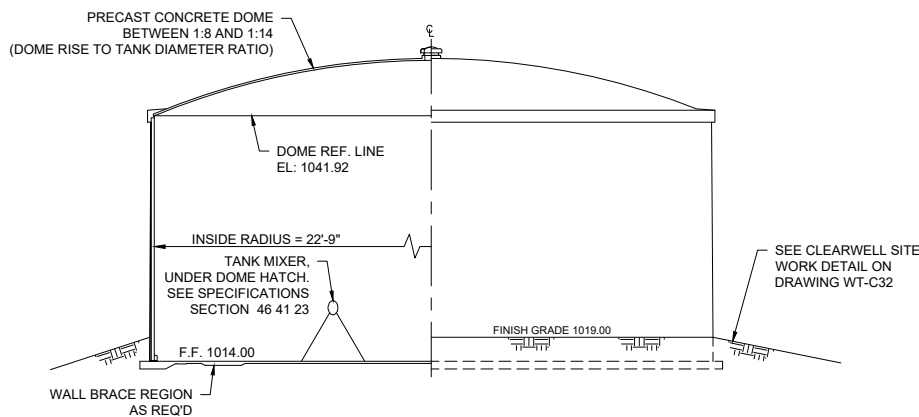


GENERAL NOTES:
1. GENERATOR, WIRE, AND CONDUIT SUBMITTALS MUST BE APPROVED BY ENGINEER BEFORE WORK CAN BEGIN ON THE CONCRETE PAD.
2. COORDINATE OPENINGS IN THE SLAB FOR ELECTRICAL PENETRATIONS WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS.

2 WELL 9 CONCRETE PAD SECTION



TANK SECTION & ELEVATION
NOT TO SCALE



WALL SECTION
NOT TO SCALE

- NOTES:
1. THE TANK FLOOR SLAB SHALL RECEIVE A BULLFLOAT AND/OR A FRESNO FINISH.
 2. THE TOP OF THE DOME RING AND DOME SLOTS SHALL RECEIVE A LIGHT BROOM FINISH.
 3. FOUNDATION AND FLOOR CONCRETE, $f_c = 4,000$ psi. DOME, COVE AND WALL CONCRETE, $f_c = 4,000$ psi. COREWALL AND WIRE COVER SHOTCRETE, $f_c = 4,500$ psi, 1:3 MIX. COVERCOAT SHOTCRETE, $f_c = 4,500$ psi, 1:4 MIX. ALL REINFORCING SHALL BE GRADE 60.
 4. FOOTING REINFORCING SHALL BE DETERMINED BY TANK DESIGNER.
 5. REFER TO CONTRACT DOCUMENTS FOR LEVELING BASE SPECIFICATION, COMPACTION REQUIREMENTS, AND FOUNDATION PREPARATION. LEVELING BASE MATERIAL SHALL BE PROVIDED BENEATH THE TANK FLOOR, FOOTING AND BOTTOM OF PIPE ENCASEMENTS.

NOTICE:
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IOWA CERTIFICATE OF AUTHORITY NO. 26887

REVISIONS
ADDENDUM #2
FIELD ORDER #2 (April)

PROJECT INFO
2022000116-003
09-12-24
ENGINEER: TWW
DRAWN BY: KJC
CHECKED BY: JMC

WATER SYSTEM IMPROVEMENTS 2023
WATER TREATMENT PLANT
GRINNELL, IOWA

CLEARWELL DETAILS



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Project: Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa
CAR No.: 08 **DATE:** August 25, 2025 **Job No.:** 2402-001445
Reference: **Contract No.:** FS-79-24-DWSRF-0006

A Change in the scope of work is indicated below and Owner's prompt approval or rejection of this authorization is requested so that the material may be purchased and to prevent any delay in field operations.

Reason for Change:

- () Design Request () Field Condition
(X) Owner Request () Suggested by Contractor
() Other

1) Description of Change:

Veith assisted the city of Grinnell in uncovering a water service that was damaged because it was not located in the building's foundation. Please Advise

2) It is requested that the completion date be:

(X) extended / () reduced by ____ calendar days

3) Basis of Payment:

- a) (x) Firm price for performing this change along with attached supporting details is (X) increased by / () decreased by **\$ 1,658.52**
- b) () Unit Price
- c) () Change to be performed per unit prices in Contract \$ -
- d) () The time required to prepare and agree upon a detailed estimate prior to proceeding with the change would unduly delay job progress. The following is an approximate estimate to assist Owner in determining whether or not change should be made. If notified to proceed, a detailed estimate in the form agreed upon, with supporting details, will be submitted after receipt of said notice.

Approximate Estimate is: \$ -

FOR OWNER'S USE

() CHANGE WILL NOT BE MADE

PROCEED ON THE FOLLOWING BASIS:

- () Firm Price () Time and Material
() Estimate of Price () Change in Completion Date
() Unit Price in Contract () No Change

Comments:

WENDLER	Submitted	<u>8/25/2025</u>
		Date
Signature: <u>Colton Singbeil</u>		
By: Colton Singbeil		
Title: Project Manager		

Approved	<u> </u>
Date	
Signature: <u> </u>	
By: <u> </u>	
Title: <u> </u>	



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa

Date: August 25, 2025

08

Veith assisted the city of Grinnell in uncovering a water service that was damaged because it was not located in the building's foundation. Please Advise

	Quantity	Unit	Unit Rate	Line Total
Subcontractors				
Vieth	1	LS	\$ 1,030.00	\$ 1,030.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			SUBTOTAL	\$ 1,030.00

Labor				
Project Manager	2.0	mhr	\$ 184.36	\$ 368.72
Asistant Project Manager	0.0	mhr	\$ 90.96	\$ -
Safety Professional	0.0	mhr	\$ 94.33	\$ -
Superintendent - ST	1.0	mhr	\$ 104.76	\$ 104.76
Superintendent - OT	0.0	mhr	\$ 157.14	\$ -
Foreman - ST	0.0	mhr	\$ 98.96	\$ -
Foreman - OT	0.0	mhr	\$ 148.44	\$ -
Carpenter - ST	0.0	mhr	\$ 98.96	\$ -
Carpenter - OT	0.0	mhr	\$ 148.45	\$ -
Operator (A) - ST	0.0	mhr	\$ 98.50	\$ -
Operator (A) - OT	0.0	mhr	\$ 147.75	\$ -
Operator (B) - ST	0.0	mhr	\$ 92.48	\$ -
Operator (B) - OT	0.0	mhr	\$ 138.72	\$ -
Laborer - ST	0.0	mhr	\$ 92.78	\$ -
Laborer - OT	0.0	mhr	\$ 139.17	\$ -
ATV Driver - ST	0.0	mhr	\$ 92.48	\$ -
ATV Driver - OT	0.0	mhr	\$ 138.72	\$ -
Truck Driver - ST	0.0	mhr	\$ 92.48	\$ -
Truck Driver - OT	0.0	mhr	\$ 138.72	\$ -
			SUBTOTAL	\$ 473.48

Equipment (without operator)				
General Conditions	day		\$2,224.60	\$0.00
Wendler Winter Conditions	day		\$2,000.00	\$0.00
Skidloader - Tracked/Rubber Tire	Hr		\$55.47	\$0.00
End loader - Rubber Tire	Hr		\$117.88	\$0.00
Telehandler	Hr		\$76.27	\$0.00
Excavator - Mini	Hr		\$62.41	\$0.00



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Excavator - 34,000 LB	Hr	\$97.08	\$0.00
Excavator - 68,000 LB	Hr	\$194.15	\$0.00
Vacuum Excavator - Trailer	Hr	\$97.08	\$0.00
Vacuum Excavator - Truck	Hr	\$277.37	\$0.00
110 Crawler Crane	Hr	\$343.23	\$0.00
Dozer	Hr	\$124.81	\$0.00
Water Pump	Hr	\$49.00	\$0.00
Compactor	Hr	\$55.47	\$0.00
Ground Heater	Hr	\$13.87	\$0.00
GPS Base/Rover/ Machine Control	Hr	\$76.27	\$0.00
Truck	Hr	\$14.00	\$0.00
Flatbed Truck	Hr	\$69.34	\$0.00
Boom Truck	Hr	\$173.35	\$0.00
Pump Truck	Hr	\$362.56	\$0.00
Dump Truck	Hr	\$80.00	\$0.00
Semi & Trailer	Mi	\$3.47	\$0.00
<i>SUBTOTAL</i>			<i>\$0.00</i>

Material

	\$	-	\$	-
	\$	-	\$	-
	\$	-	\$	-
	\$	-	\$	-
	<i>SUBTOTAL</i>		<i>\$</i>	<i>-</i>

C.A.R. SUBTOTAL ***\$*** ***1,503.48***

Overhead, Subcontractors 5.00% \$ 51.50

Overhead, Self-Performed 15.00% \$ 71.02

\$ ***1,626.00***

Bond 2.00% \$ 32.52

Total Proposed Change ***\$*** ***1,658.52***

☐ SUBCONTRACT CHANGE ORDER

Nº 2588

☒ EXTRA WORK AUTHORIZATION

Day THurs.

VCC No. 24-016

Date 6/12/25

Project No. _____

Change Order No. _____

PROJECT NAME:

GRINNELL WASTP

Prime Contractor:

WRH

Subcontractor:

VCC

Contact:

Contact:

Phone #:

Phone #:

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
	VCC ASSISTED CITY IN UNCOVERING WATER SERVICE THAT WAS HIT DUE TO NOT BRING LOCATED. IN BUILDING PAD.				
2	CAT 336 EXCAVATOR	2	HRS.	340	680
2	LABOR	3	HRS.	85	255
3	FOREMAN	1	HR.	95	95

Remarks:

TOTAL = \$ 1030

The work covered by the change order shall be performed in accordance with the same terms and conditions as included in the original contract.

Work Authorized or Changes Approved by:

Sub/Contractor

By

Tang Vieth
 (Foreman Signature)

Vieth Construction Corporation

By

By

(Authorized Signature)

(VCC Office Signature)

Title

Title

Date

Date

pres.
6/25/25



Change Authorization Request

**BUILD TODAY FOR
A BETTER TOMORROW**

Project: Water System Improvement 2023 Water Treatment Plant Grinnell, Iowa
CAR No.: 10 **DATE:** August 25, 2025 **Job No.:** 2402-001445
Reference: _____ **Contract No.:** FS-79-24-DWSRF-0006

A Change in the scope of work is indicated below and Owner's prompt approval or rejection of this authorization is requested so that the material may be purchased and to prevent any delay in field operations.

Reason for Change:

- (☒) Design Request (☐) Field Condition
(☐) Owner Request (☐) Suggested by Contractor
(☐) Other _____

1) Description of Change:

Deduction for DN Tank concrete inspections. Please Advise

2) It is requested that the completion date be:

(☒) extended / (☐) reduced by _____ calendar days

3) Basis of Payment:

- a) (☒) Firm price for performing this change along with attached supporting details is (☐) increased by / (☒) decreased by \$ (9,000.00)
- b) (☐) Unit Price _____
- c) (☐) Change to be performed per unit prices in Contract \$ -
- d) (☐) The time required to prepare and agree upon a detailed estimate prior to proceeding with the change would unduly delay job progress. The following is an approximate estimate to assist Owner in determining whether or not change should be made. If notified to proceed, a detailed estimate in the form agreed upon, with supporting details, will be submitted after receipt of said notice.

Approximate Estimate is: \$ _____ -

FOR OWNER'S USE

(☐) CHANGE WILL NOT BE MADE

PROCEED ON THE FOLLOWING BASIS:

- (☐) Firm Price (☐) Time and Material
(☐) Estimate of Price (☐) Change in Completion Date
(☐) Unit Price in Contract (☐) No Change

Comments: _____

WENDLER	Submitted <u>8/25/2025</u>
	Date
	Signature: <u>Colton Singbeil</u>
	By: Colton Singbeil Title: Project Manager

Approved _____
Date
Signature: _____
By: _____ Title: _____

RESOLUTION NO. 2025-171

RESOLUTION ACCEPTING WORK FOR THE NORTH STREETS INLAY PROJECT.

WHEREAS, the City of Grinnell did enter into a contract with Manatt's, Inc. of Newton, Iowa on March 20, 2023, for the North Streets Inlay Project; and

WHEREAS, said contractor has substantially completed the construction of said improvements, known as the North Streets Inlay Project, in accordance with the terms and conditions of said contract and plans and specifications.

NOW, THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GRINNELL, IOWA,

Section 1. That said improvements are hereby accepted as having been substantially completed in accordance with the said plans, specifications and contract. The total contract cost of the improvements payable under said contract is hereby determined to be \$3,044,497.58.

Passed and approved on this 6th day of October 2025.

Dan F. Agnew, Mayor

ATTEST:

Alyssa Devig, City Clerk/Finance Director

CERTIFICATE OF COMPLETION

North Streets Inlay Project CITY OF GRINNELL IOWA

We hereby certify that we have made an on-site review of the completed construction of the North Streets Inlay Project as performed by Manatts Inc. of Newton, Iowa

As Engineers for the project, it is our opinion the work performed is in substantial accordance with the plans and specifications, and that the final amount of the Contract is Three Million Forty-Four Thousand Four Hundred Ninety-Seven and 58/100 Dollars (\$3,044,497.58).

VEENSTRA & KIMM, INC.

Accepted: CITY OF GRINNELL

By



Title Project Manager

Date



By

Title

Date

RESOLUTION NO. 2025-172

RESOLUTION ACCEPTING WORK FOR THE 4TH AVENUE – PRINCE STREET TO PEARL STREET PROJECT.

WHEREAS, the City of Grinnell did enter into a contract with All Star Concrete on March 20, 2023, for the 4th Avenue – Prince Street to Pearl Street Project; and

WHEREAS, said contractor has substantially completed the construction of said improvements, known as the North Steets Inlay Project, in accordance with the terms and conditions of said contract and plans and specifications.

NOW, THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GRINNELL, IOWA,

Section 1. That said improvements are hereby accepted as having been substantially completed in accordance with the said plans, specifications and contract. The total contract cost of the improvements payable under said contract is hereby determined to be \$2,254,805.52.

Passed and approved on this 6th day of October 2025.

Dan F. Agnew, Mayor

ATTEST:

Alyssa Devig, City Clerk/Finance Director

CERTIFICATE OF COMPLETION

**4th Avenue Reconstruction
Prince Street to Pearl Street
CITY OF GRINNELL IOWA**

We hereby certify that we have made an on-site review of the completed construction of the 4th Avenue Reconstruction Project as performed by All Star Concrete of Johnston Iowa.

As Engineers for the project, it is our opinion the work performed is in substantial accordance with the plans and specifications, and that the final amount of the Contract is Two Million Two Hundred Fifty-Four Thousand Four Thousand Eight Hundred and Five and 52/100 Dollars (\$2,254,805.52).

VEENSTRA & KIMM, INC.

Accepted: CITY OF GRINNELL

By 
Title Project Manager
Date 10/1/2025

By _____
Title _____
Date _____

RESOLUTION NO. 2025-173

RESOLUTION AUTHORIZING PAYMENT OF CONTRACTOR'S PAY REQUEST NO. 1 IN THE AMOUNT OF \$467,865.00 TO MANATT'S INC. FOR THE BLISS STREET & 8TH AVENUE IMPROVEMENTS PROJECT.

WHEREAS, the City of Grinnell did enter into a contract with Manatt's Inc. on May 19, 2025, for the Bliss Street and 8th Avenue Improvements Project; and

WHEREAS, Pay Estimate No. 1 has been initiated by the City of Grinnell and Manatt's, Inc.; and

WHEREAS, the Project Engineer has verified completion of the project in accordance with the terms of the contract and recommends approval of Pay Estimate No. 1; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GRINNELL, IOWA,

Section 1. That said improvements are hereby accepted as having been substantially completed in accordance with the said plans, specifications, and contract. The City Clerk is hereby authorized and directed to make payment in the amount of \$467,865.00 to Manatt's, Inc. for the Bliss Street & 8th Avenue Improvements Project.

Passed and adopted this 6th day of October 2025.

Dan F. Agnew, Mayor

Attest:

Alyssa Devig, City Clerk/Finance Director

GRINNELL BLISS ST & 8TH AVE IMPROVEMENTS

Pay Request #1 October 1 2025

ITEM	DESCRIPTION	UM	TO DATE	UP	COMPLETED TOTAL
1	MOBILIZATION	LS	1	\$7,500.00	\$7,500.00
2	TRAFFIC CONTROL	LS	0.5	\$10,000.00	\$5,000.00
3	CONSTRUCTION STAKING	LS	1	\$4,500.00	\$4,500.00
4	CLASS 10 EXCAVATION	CY	1060	\$20.00	\$21,200.00
5	SURFACING REMOVAL	SY	5620	\$2.88	\$16,185.60
6	SUBGRADE TREATMENT	SY	6032	\$6.35	\$38,303.20
7	COMPACTION TESTING	LS	1	\$2,500.00	\$2,500.00
8	MODIFIED SUBBASE	SY	6032	\$15.00	\$90,480.00
9	HMA SURFACE COURSE	SY	4675	\$12.61	\$58,951.75
10	HMA INTERMEDIATE COURSE	SY	2208	\$14.03	\$30,978.24
11	HMA BASE COURSE	SY	4675	\$24.43	\$114,210.25
12	PAINTED PAVEMENT MARKINGS, DURABLE	ST	0	\$24.00	\$0.00
13	GRANULAR SURFACING	SY	349	\$20.00	\$6,980.00
14	HMA DRIVEWAY, 6", REMOVE AND REPLACE(REPLACE ONLY)	SY	161	\$69.66	\$11,215.26
15	PCC DRIVEWAY, 6", REMOVE AND REPLACE	SY	390.3	\$85.49	\$33,366.75
16	SEEDING, FERTILIZING, AND MULCHING, TYPE 1	ACRE	0	\$5,000.00	\$0.00
17	SILT FENCE	LF	0	\$1.50	\$0.00
18	FILTER SOCKS, 8"	LF	0	\$3.00	\$0.00
					\$441,371.05
CO 1	30' Pipe	LS	1	22374	\$22,374.00
CO 2	Dual Culverts	LS	1	18590	\$18,590.00
Total to Date					\$482,335.05
Retainage					\$14,470.05
Total less Retainage					\$467,865.00
Previous Payments					\$0.00
Current Amount Due					\$467,865.00

 10/1/25

Veenstra & Kimm

Date

City of Grinnell

Date

RESOLUTION NO. 2025-174

RESOLUTION AUTHORIZING PAYMENT OF CONTRACTOR'S PAY REQUEST NO. 1 IN THE AMOUNT OF \$73,188.93 TO CON-STRUCT, INC. FOR THE BROAD STREET INLAY PROJECT.

WHEREAS, the City of Grinnell did enter into a contract with Con-Struct Inc. on May 19, 2025, for Broad Street Inlay Project; and

WHEREAS, Pay Estimate No. 1 has been initiated by the City of Grinnell and Con-Struct, Inc.; and

WHEREAS, the Project Engineer has verified completion of the project in accordance with the terms of the contract and recommends approval of Pay Estimate No. 1; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GRINNELL, IOWA,

Section 1. That said improvements are hereby accepted as having been substantially completed in accordance with the said plans, specifications, and contract. The City Clerk is hereby authorized and directed to make payment in the amount of \$73,188.93 to Con-Struct, Inc. for the Broad Street Inlay Project.

Passed and adopted this 6th day of October 2025.

Dan F. Agnew, Mayor

Attest:

Alyssa Devig, City Clerk/Finance Director

**1710 E. Main Street
Marshalltown, IA 50158
641-752-1865
Fax-752-5905**

Page 117 of 151

RESOLUTION NO. 2025-175

RESOLUTION AUTHORIZING PAYMENT OF CONTRACTOR'S PAY REQUEST NO. 1 IN THE AMOUNT OF \$174,185.70 TO INROADS, LLC. FOR THE HAZELWOOD CEMETERY ROADS PROJECT.

WHEREAS, the City of Grinnell did enter into a contract with InRoads, LLC. on July 7, 2025, for Hazelwood Cemetery Roads Project; and

WHEREAS, Pay Estimate No. 1 has been initiated by the City of Grinnell and InRoads, LLC.; and

WHEREAS, the Project Engineer has verified completion of the project in accordance with the terms of the contract and recommends approval of Pay Estimate No. 1; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GRINNELL, IOWA,

Section 1. That said improvements are hereby accepted as having been substantially completed in accordance with the said plans, specifications, and contract. The City Clerk is hereby authorized and directed to make payment in the amount of \$174,185.70 to InRoads, LLC. for the Hazelwood Cemetery Roads Project.

Passed and adopted this 6th day of October 2025.

Dan F. Agnew, Mayor

Attest:

Alyssa Devig, City Clerk/Finance Director

Application and Certificate For Payment

Page 1

To Owner: City of Grinnell 520 4th Avenue Grinnell, IA 50112		Project: 4c Hazelwood Cemetery 120 1st Ave W Grinnell, IA 50112		Application No: 1 Period To: 08/31/25 Architect's Project No: Contract Date: 07/08/25	Date: 08/31/2025
From (Contractor): InRoads LLC 4761 NE 20th Lane Des Moines, IA 50313		Contractor Job Number: 30.1551 Via (Architect):			
Phone: 515 348-8148		Contract For: Hazelwood Cemetery Grinnell			

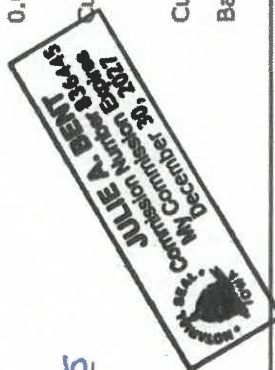
Contractor's Application For Payment

Change Order Summary	Additions	Deductions
Change orders approved in previous months by owner		
Change orders approved this month	Number	Date Approved
Totals		
Net change by change orders		

Original contract sum	163,187.00
Net change by change orders	0.00
Contract sum to date	163,187.00
Total completed and stored to date	174,165.70
Retainage	
0.0% of completed work	0.00
0.0% of stored material	0.00
Total retainage	5,224.97
Total earned less retainage	168,940.73
Less previous certificates of payment	0.00
0.000% of taxable amount	0.00
Current sales tax	0.00
Current payment due	174,165.70
Balance to finish, including retainage	-10,978.70

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information, and belief the work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

Contractor: InRoads LLC Date: 8/31/25
 By: [Signature] State of: Iowa County of: Polk
 Subscribed and sworn to before me this 31st day of August, 2025 (Year). Notary public: [Signature]
 My commission expires Dec 30, 2027



Architect's Certificate for Payment

In accordance with the Contract Documents, based on on-site observations and the data comprising the above application the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the Amount Certified.

Amount Certified: \$ 168,940.73

Architect: [Signature] Date: 10/1/25
 By: [Signature]

This Certification is not negotiable. The Amount Certified is payable only to the Contractor named herein. Issuance, payment, and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

THANK YOU!!

Application and Certificate For Payment -- page 2

To Owner: City of Grinnell
 From (Contractor): InRoads LLC
 Project: 4c Hazelwood Cemetery

Application No: 1 Date: 08/31/25 Period To: 08/31/25
 Contractor's Job Number: 30.1551
 Architect's Project No:

Item Number	Description	Unit Price	Contract Quantity	UM	Scheduled Value	Work Completed Previous Application		Work Completed This Period		Completed and Stored To Date		Retention	Memo
						Quantity	Amount	Quantity	Amount	Quantity	Amount	%	
00													
001	Mobilization	0.0000	.000	LS	10,725.00	0.00 %	0.00	100.00 %	10,725.00	100.00 %	10,725.00	100.0	0.00
002	Traffic Control	0.0000	.000	LS	2,500.00	0.00 %	0.00	100.00 %	2,500.00	100.00 %	2,500.00	100.0	0.00
003	Surface Removal	6.8500	1,200,000	SY	8,220.00	.000	0.00	318,000	2,178.30	318,000	2,178.30	26.5	0.00
004	Full Depth HMA Pulverization	6.2500	2,500,000	SY	15,625.00	.000	0.00	900,000	5,625.00	900,000	5,625.00	36.0	0.00
005	Subgrade Tx	3.7500	1,200,000	SY	4,500.00	.000	0.00	900,000	3,375.00	900,000	3,375.00	75.0	0.00
006	Compaction Testing	0.0000	.000	LS	1,032.00	0.00 %	0.00	100.00 %	1,032.00	100.00 %	1,032.00	100.0	0.00
007	Modified Subbase	17.5500	1,200,000	SY	21,060.00	.000	0.00	318,000	5,580.90	318,000	5,580.90	26.5	0.00
008	HMA Surface Course	19.5000	3,750,000	SY	73,125.00	.000	0.00	4,520,000	88,140.00	4,520,000	88,140.00	120.5	0.00
009	HMA Intermediate Course	19.5000	1,200,000	SY	23,400.00	.000	0.00	2,821,000	55,009.50	2,821,000	55,009.50	235.1	0.00
010	Seeding/Fert/Mulch Type 1	3,000.0000	1,000	ACR	3,000.00	.000	0.00	.000	0.00	.000	0.00	0.0	0.00
Total					163,187.00		0.00		174,165.70		174,165.70		0.00

Application Total

163,187.00 0.00 174,165.70 174,165.70 0.00

THANK YOU!

RESOLUTION NO. 2025-176

RESOLUTION AUTHORIZING PAYMENT OF CONTRACTOR'S PAY REQUEST NO. 6 IN THE AMOUNT OF \$136,567.25 TO CON-STRUCT, INC. FOR THE SCOUT SUBDIVISION PROJECT.

WHEREAS, the City of Grinnell did enter into a contract with Con-Struct, Inc. on May 6, 2024, for the Scout Subdivision Project; and

WHEREAS, Pay Estimate No. 6 has been initiated by the City of Grinnell and Con-Struct, Inc.; and

WHEREAS, the Project Engineer has verified completion of the project in accordance with the terms of the contract and recommends approval of Pay Estimate No. 6; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GRINNELL, IOWA,

Section 1. That said improvements are hereby accepted as having been substantially completed in accordance with the said plans, specifications, and contract. The City Clerk is hereby authorized and directed to make payment in the amount of \$136,567.25 to Con-Struct, Inc. for the Scout Subdivision.

Passed and adopted this 6th day of October 2025.

Dan F. Agnew, Mayor

Attest:

Alyssa Devig, City Clerk/Finance Director

Con-Struct Inc.
1710 E. Main Street
Marshalltown, IA 50158
641-752-1865
Fax-752-5905

Grinnell - Scout Subdivision		Pay App # 6		Date		8/31/2025	
ITEM NO.	DESCRIPTION OF ITEM ON WHICH BID IS BASED	Bid Quantity	To Date Quantity	Period Quantity	UNIT	UNIT PRICE	Total Completed To Date
Division 1							
1	CLEARING AND GRUBBING	1	1.00		LS	\$8,800.00	\$8,800.00
2	TOP SOIL, ON-SITE	5	4.00		AC	\$4,900.00	\$19,600.00
3	EXCAVATION, CLASS 10	11,300	11300.00		CY	\$4.00	\$45,200.00
4	SUBGRADE PREPARATION, 12" DEPTH	0			SY	\$2.00	\$0.00
5	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 8"	691	691.00		LF	\$75.00	\$51,825.00
6	SANITARY SEWER SERVICE STUB, PVC, 4" DIA.	17	17.00		EA	\$2,500.00	\$42,500.00
7	STORM SEWER, TRENCHED, HDPE, 8" DIA.	0			LF	\$35.00	\$0.00
8	STORM SEWER, TRENCHED, HDPE, 15" DIA.	282	282.00		LF	\$55.00	\$15,510.00
9	STORM SEWER, TRENCHED, HDPE, 18" DIA.	0			LF	\$65.00	\$0.00
10	STORM SEWER, TRENCHED, RCP, 12" DIA.	187	187.00		LF	\$50.00	\$9,350.00
11	STORM SEWER, TRENCHED, RCP, 15" DIA.	0			LF	\$60.00	\$0.00
12	STORM SEWER, TRENCHED, RCP, 18" DIA.	0			LF	\$75.00	\$0.00
13	PIPE APRON, CMP, 15" DIA.	2	2.00		EA	\$500.00	\$1,000.00
14	PIPE APRON, CMP, 18" DIA.	0			EA	\$600.00	\$0.00
15	PIPE APRON, RCP, 12" DIA.	1	1.00		EA	\$1,500.00	\$1,500.00
16	PIPE APRON, RCP, 18" DIA.	0			EA	\$1,600.00	\$0.00
17	FOOTING FOR CONCRETE PIPE APRON, PCC, 12" DIA.	1	1.00		EA	\$300.00	\$300.00
18	FOOTING FOR CONCRETE PIPE APRON, PCC, 18" DIA.	0			EA	\$500.00	\$0.00
19	PIPE APRON GUARD	1	1.00		EA	\$800.00	\$800.00
20	SUBDRAIN, CORRUGATED PVC, 6" DIA.	0			LF	\$15.00	\$0.00
21	SUBDRAIN CLEANOUT, TYPE A-1, 6" DIA.	0			EA	\$800.00	\$0.00
22	STORM SEWER SERVICE STUB, PVC, 2" DIA.	0			EA	\$1,800.00	\$0.00
23	WATER MAIN, TRENCHED, PVC, 8" DIA.	0			LF	\$50.00	\$0.00
24	WATER SERVICE STUB, PVC, 1" DIA.	0			EA	\$2,500.00	\$0.00
25	TAPPING VALVE ASSEMBLY, 8" DIA.	0			EA	\$7,000.00	\$0.00
26	FIRE HYDRANT ASSEMBLY	0			EA	\$8,000.00	\$0.00
27	MANHOLE TYPE SW-301, 48" DIA.	3	3.00		EA	\$6,800.00	\$20,400.00
28	MANHOLE TYPE SW-401, 48" DIA.	2	2.00		EA	\$5,300.00	\$10,600.00
29	INTAKE TYPE SW-501	0			EA	\$4,000.00	\$0.00
30	INTAKE TYPE SW-503	0			EA	\$6,000.00	\$0.00
31	INTAKE TYPE SW-505	0			EA	\$4,900.00	\$0.00
32	INTAKE TYPE SW-506	0			EA	\$7,000.00	\$0.00
33	INTAKE HDPE BASIN, 24" DIA.	0			EA	\$3,500.00	\$0.00
34	INTAKE TYPE SW-513, 4' X 4'	1	1.00		EA	\$4,900.00	\$4,900.00
35	MANHOLE ADJUSTMENT	1	1.00		EA	\$2,500.00	\$2,500.00
36	PAVEMENT, PCC, 7"	0			SY	\$66.00	\$0.00
37	SIDEWALK, PCC, 4"	0			SY	\$60.00	\$0.00
38	DETECTABLE WARNING	0			SF	\$45.00	\$0.00
39	FLUME, PCC, 8"	0			SY	\$75.00	\$0.00
40	DEMOLITION	1	0.75		LS	\$8,000.00	\$6,000.00
41	TRAFFIC CONTROL	1			LS	\$2,000.00	\$0.00
42	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING	6	3.25		AC	\$1,750.00	\$5,687.50
43	EROSION AND SEDIMENT CONTROL	1	1.00		LS	\$11,000.00	\$11,000.00
44	RIP RAP, CLASS "E"	10	10.13		TON	\$75.00	\$759.75
Division 2							
1	CLEARING AND GRUBBING	1	1.00		LS	\$8,800.00	\$8,800.00
2	TOP SOIL, ON-SITE	7	3.50		AC	\$3,800.00	\$13,300.00
3	EXCAVATION, CLASS 10	10,000	9000.00		CY	\$4.00	\$36,000.00
4	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC, 8"	2,879			SY	\$2.00	\$0.00
5	SANITARY SEWER SERVICE STUB, PVC, 4" DIA.	537	537.00	141.00	LF	\$75.00	\$40,275.00
6	SANITARY SEWER SERVICE STUB, PVC, 4" DIA.	23	16.00	5.00	EA	\$2,500.00	\$40,000.00
7	STORM SEWER, TRENCHED, HDPE, 8" DIA.	300			LF	\$35.00	\$0.00
8	STORM SEWER, TRENCHED, HDPE, 15" DIA.	516			LF	\$55.00	\$0.00
9	STORM SEWER, TRENCHED, HDPE, 18" DIA.	194			LF	\$85.00	\$0.00
10	STORM SEWER, TRENCHED, RCP, 12" DIA.	25	71.00		LF	\$50.00	\$3,550.00
11	STORM SEWER, TRENCHED, RCP, 15" DIA.	349	198.00	198.00	LF	\$60.00	\$11,880.00
12	STORM SEWER, TRENCHED, RCP, 18" DIA.	157	157.00	157.00	LF	\$75.00	\$11,775.00
13	PIPE APRON, CMP, 15" DIA.	1			EA	\$500.00	\$0.00
14	PIPE APRON, CMP, 18" DIA.	1			EA	\$600.00	\$0.00
15	PIPE APRON, RCP, 12" DIA.	1	1.00		EA	\$1,500.00	\$1,500.00
16	PIPE APRON, RCP, 18" DIA.	1	1.00	1.00	EA	\$1,600.00	\$1,600.00
17	FOOTING FOR CONCRETE PIPE APRON, PCC, 12" DIA.	1	1.00		EA	\$300.00	\$300.00
18	FOOTING FOR CONCRETE PIPE APRON, PCC, 18" DIA.	1	1.00	1.00	EA	\$500.00	\$500.00
19	PIPE APRON GUARD	2	2.00	1.00	EA	\$800.00	\$1,600.00
20	SUBDRAIN, CORRUGATED PVC, 6" DIA.	1,383			LF	\$15.00	\$0.00
21	SUBDRAIN CLEANOUT, TYPE A-1, 6" DIA.	6			EA	\$800.00	\$0.00
22	STORM SEWER SERVICE STUB, PVC, 2" DIA.	21			EA	\$1,800.00	\$0.00
23	WATER MAIN, TRENCHED, PVC, 8" DIA.	639	639.00	639.00	LF	\$50.00	\$31,950.00
24	WATER SERVICE STUB, PVC, 1" DIA.	40			EA	\$2,500.00	\$0.00
25	TAPPING VALVE ASSEMBLY, 8" DIA.	1	1.00	1.00	EA	\$7,000.00	\$7,000.00
26	FIRE HYDRANT ASSEMBLY	2	2.00	2.00	EA	\$8,000.00	\$16,000.00
27	MANHOLE TYPE SW-301, 48" DIA.	4	4.00	2.00	EA	\$6,800.00	\$27,200.00
28	MANHOLE TYPE SW-401, 48" DIA.	3	2.00	1.00	EA	\$5,300.00	\$10,600.00
29	INTAKE TYPE SW-501	1			EA	\$4,000.00	\$0.00
30	INTAKE TYPE SW-503	2	1.00	1.00	EA	\$6,000.00	\$6,000.00
31	INTAKE TYPE SW-505	1	1.00	1.00	EA	\$4,900.00	\$4,900.00
32	INTAKE TYPE SW-506	1	1.00	1.00	EA	\$7,000.00	\$7,000.00
33	INTAKE HDPE BASIN, 24" DIA.	4			EA	\$3,500.00	\$0.00
34	INTAKE TYPE SW-513, 4' X 4'	0			EA	\$4,900.00	\$0.00
35	MANHOLE ADJUSTMENT	4			EA	\$2,500.00	\$0.00
36	PAVEMENT, PCC, 7"	2,424			SY	\$66.00	\$0.00
37	SIDEWALK, PCC, 4"	292			SY	\$60.00	\$0.00
38	DETECTABLE WARNING	20			SF	\$45.00	\$0.00
39	FLUME, PCC, 8"	88			SY	\$75.00	\$0.00
40	DEMOLITION	1	0.75		LS	\$12,000.00	\$9,000.00
41	TRAFFIC CONTROL	1			LS	\$2,000.00	\$0.00
42	CONVENTIONAL SEEDING, SEEDING, FERTILIZING, AND MULCHING	6			AC	\$1,750.00	\$0.00
43	EROSION AND SEDIMENT CONTROL	1	0.50	0.25	LS	\$9,500.00	\$4,750.00
44	RIP RAP, CLASS "E"	15			TON	\$75.00	\$0.00
C.O. #1	Temp Mulching		1.00		LS	\$5,390.00	\$5,390.00
C.O. #2	Misc., Tree, and Storm Sewer Removals		1.00		LS	\$4,400.00	\$4,400.00
Total Completed To Date Division 1							
Total Completed To Date Division 2							
5% Retainage							
Total Earned Less Retainage							
Less Previous Certificates for Payment							
Current Payment Due							
\$258,232.25							
\$305,270.00							
\$28,175.11							
\$535,327.14							
\$398,759.89							
\$136,567.25							
Con-Struct Inc.							
Date 8/12/25							
Veenstra & Kimm							
Date 10/1/25							
City of Grinnell							
Date							

RESOLUTION NO. 2025-177

RESOLUTION SETTING PUBLIC HEARING ON PROPOSED PLANS, SPECIFICATIONS, AND FORM OF CONTRACT AND ESTIMATE OF COST AND DIRECTING PUBLICATION OF NOTICE TO BIDDERS FOR THE CONSTRUCTION OF THE 4TH AVENUE RECONSTRUCTION (2026) – STATE STREET TO EAST STREET PROJECT IN THE CITY OF GRINNELL, IOWA.

WHEREAS the proposed plans, specifications, and form of contract costs will be placed on file in the office of the City Clerk for the construction of the 4th Avenue Reconstruction (2026) – State Street to East Street Project in the city of Grinnell, Iowa, as is fully set forth in the plans and specifications, and

WHEREAS the cost of the said improvement is in excess of the amount required to hold a public bid and a public hearing on the plans, specifications, form of contract and the estimated cost of said improvement is required by law and that notice thereof shall be given as required by law, and

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF GRINNELL, IOWA:

Section 1. This Council does hereby order the construction of the 4th Avenue Reconstruction (2026) – State Street to East Street Project in the city of Grinnell, Iowa, which public improvement is fully and particularly described in the plans and specifications, to be placed on file in the office of the City Clerk of Grinnell, Iowa.

Section 2. That the method of construction shall be by contract in accordance with the plans and specifications and general stipulations for said improvement approved by the City Council.

Section 3. The City Clerk is hereby directed to publish notice of hearing on plans, specifications, and form of contract in the manner provided by law for the public improvement outlined herein and that any person interested therein may appear and make objections thereto. The Council will meet in the Council Chambers at City Hall at 520 4th Avenue Grinnell, Iowa, at 7:00 pm local time on the 20th day of October 2025, for the purpose of hearing of said objections made and for taking final action upon the plans, specifications, and form of contract now on file.

Section 4. The City Clerk is further directed to advertise for bids in the manner provided by law for the construction of said improvements, setting forth in said notice such necessary pertinent information as will advise prospective bidders thereof together with the proposed manner of payment of the work to be constructed and that such bids be filed and received by the office of the City Clerk of Grinnell, Iowa, up to 2:00 pm, local time, on the 30th day of October 2025. The bids will be opened, read, and tabulated at that time and will be acted upon by the City Council of said City at a meeting to be held in the Council Chambers at City Hall at 520 4th Avenue Grinnell, Iowa, at 7:00 pm local time on the 3rd day of November 2025.

Passed this 6th day of October 2025.

CITY OF GRINNELL, IOWA

DAN F. AGNEW, MAYOR

ATTEST:

ALYSSA DEVIG, CITY CLERK/FINANCE DIRECTOR

NOTICE OF PUBLIC HEARING

NOTICE OF PUBLIC HEARING ON THE PROPOSED PLANS AND SPECIFICATIONS, PROPOSED FORM OF CONTRACT AND ESTIMATED CONSTRUCTION COST FOR THE CONSTRUCTION OF THE 4th AVENUE RECONSTRUCTION (2026) – STATE STREET TO EAST STREET PROJECT, FOR THE CITY OF GRINNELL, IOWA.

At 7:00 P.M. on the 20th day of October 2025, the City Council of said City will, in said Council Chambers, hold a hearing and said Council proposes to adopt plans, specifications, form of contract and estimate of cost and, at the time, date and place specified above, or at such time, date and place as then may be fixed, to act upon proposals and entire into a contract for the construction of the following improvements:

4TH AVENUE RECONSTRUCTION PROJECT (2026) – STATE STREET TO EAST STREET

Reconstruction of 4th Avenue (2026) – from State Street to East Street Project including all labor, materials and equipment necessary for saw-cutting and pavement removal full width and new PCC street construction, subgrade preparation, modified subbase, longitudinal subdrains, storm sewer and intakes, manhole adjustments, driveway and sidewalk construction, decorative lighting and electrical system, traffic control, and miscellaneous associated work, including cleanup.

At said hearing, the City Council will consider the plans, specifications, proposed form of contract, and estimated total cost for the project, the same now being on file in the office of the City Clerk, reference to which is made for a more detailed and complete description of the proposed improvements, and at said time and place the said Council will also receive and consider any objections to said plans, specifications, estimate of cost and form of contract made by any interested party.

This notice is given by order of the Council of the City of Grinnell, Iowa.

CITY OF GRINNELL, IOWA

Dan F. Agnew, Mayor

ATTEST:

Annmarie Wingerter, City Clerk

NPH-1

288223

NOTICE TO BIDDERS

NOTICE OF TAKING BIDS FOR THE CONSTRUCTION OF THE 4th AVENUE RECONSTRUCTION (2026) – STATE STREET TO EAST STREET PROJECT FOR THE CITY OF GRINNELL, IOWA

Sealed proposals will be received by the City Clerk of the City of Grinnell, Iowa, in the Council Chambers, City Hall, 520 Fourth Avenue, Grinnell, Iowa 50112 until 2:00 P.M. on the 30th day of October 2025, for the construction of the 4th Avenue Reconstruction (2026) – State Street to East Street project, as described in the plans and specifications therefor, now on file in the office of the City Clerk. Proposals will be opened and the amount of the bids announced by the City Clerk at the time and date specified above.

Also, at 7:00 P.M. on the 3rd day of November 2025, the City Council of said City will, in said Council Chambers, or at such time, date and place as then may be fixed, to act upon proposals and enter into a contract for the construction of said improvements.

The location of the work to be done and the kinds and sizes of materials proposed to be used are as follows:

4TH AVENUE RECONSTRUCTION PROJECT (2026) – STATE STREET TO EAST STREET

Reconstruction of 4th Avenue (2026) – from State Street to East Street Project including all labor, materials and equipment necessary for saw-cutting and pavement removal full width and new PCC street construction, subgrade preparation, modified subbase, longitudinal subdrains, storm sewer and intakes, manhole adjustments, driveway and sidewalk construction, decorative lighting and electrical system, traffic control, and miscellaneous associated work, including cleanup.

All work and materials are to be in accordance with the proposed plans, specifications, form of contract and estimate of cost now on file in the office of the City Clerk of Grinnell, Iowa, and by this reference made a part thereof as though fully set out and incorporated herein.

All proposals in connection therewith shall be submitted to the City Clerk of said City on or before the time herein set for said letting. All proposals shall be made on official bidding blanks furnished by the City, and any alterations in the official form of proposal will entitle the Council, at its option, to reject the proposal involved from consideration. Each proposal shall be sealed and plainly identified.

Notice to Bidders

Each proposal shall be made out on a blank form furnished by the municipality and must be accompanied in a sealed envelope by either (1) a certified or cashier's check drawn on a solvent Iowa bank or a bank chartered under the laws of the United States or a certified share draft drawn on a credit union in Iowa or chartered under the laws of the United States, in an amount equal to five percent (5%) of the bid, or (2) a bid bond executed by a corporation authorized to contract as a surety in the State of Iowa, in the penal sum of five percent (5%) of the bid.

The bid security should be made payable to the CITY OF GRINNELL, IOWA. The bid security must not contain any conditions either in the body or as an endorsement thereon. The bid security shall be forfeited to the City as liquidated damages in the event the successful bidder fails or refuses to enter into a contract within 10 days after the award of contract and post bond satisfactory to the City insuring the faithful fulfillment of the contract and the maintenance of said work, if required, pursuant to the provisions of this notice and other contract documents. Bidders shall use the bid bond form bound in the specifications.

By virtue of statutory authority, preference will be given to products and provisions grown and coal produced within the State of Iowa, and to Iowa domestic labor, to the extent lawfully required under Iowa Statutes.

The City Council reserves the right to reject any or all bids and to waive informalities or technicalities in any bid and to accept the bid which it deems to be in the best interest of the City.

The Council reserves the right to defer acceptance of any proposal for a period not to exceed thirty (30) calendar days from the date of letting.

The successful bidder will be required to furnish a bond in an amount equal to one hundred percent (100%) of the contract price, said bond to be issued by a responsible surety approved by the City Council and shall guarantee the faithful performance of the contract and the terms and conditions therein contained and shall guarantee the prompt payment for all materials and labor and protect and save harmless the City from claims and damages of any kind caused by the operations of the Contractor, and shall guarantee the work against faulty workmanship and materials for a period of four (4) years after its completion and acceptance by the City Council.

The work will commence within ten (10) days after date set forth in written Notice to Proceed and shall be completed no later than October 1, 2026.

Liquidated damages in the amount of Five Hundred Dollars (\$500.00) per consecutive calendar day will be assessed for each day that work shall remain uncompleted after the end of the contract period, with due allowance for extensions of the contract period due to conditions beyond the control of the Contractor.

NB-2

288223

Payment to the Contractor for said improvements will be made in cash derived from the proceeds of the issuance and sale of such bonds and/or from such cash funds of the City as may be legally used for said purposes. Any combination of the above methods of payment may be used at the discretion of the City Council.

Payment to the Contractor will be on the basis of monthly estimates equivalent to ninety-five percent (95%) of the contract value of the work completed and payments made to material suppliers for materials ordered specifically for the project or delivered to the site during the preceding calendar month. Estimates will be prepared approximately 10 days prior to the first Monday of the following month by the Contractor, subject to the approval of the Engineer, who will certify to the City for payment. The City reviews and approves estimates on the first Monday of the month. Such monthly payments shall in no way be construed as an act of acceptance for any part of the work partially or totally completed. Upon completion of the work and its acceptance by the Council, the Contractor will be paid an amount which, together with previous payments, will equal ninety-seven percent (97%) of the contract price of the contract. Final payment of the remaining three percent (3%) will be made not less than thirty-one (31) days after completion and acceptance by resolution of the City Council of the completed contract, subject to the conditions and in accordance with the provisions of Chapter 573 of the Code of Iowa, as amended. No such partial or final payments will be due until the Contractor has certified to the City that the materials, labor and services involved in each estimate have been paid for in accordance with the requirements stated in the specifications.

The City will issue a sales tax exemption certificate applicable for all materials purchased for the project.

Plans and specifications governing the construction of the proposed improvements, and also the prior proceedings of the City Council referring to and defining said proposed improvements are hereby made a part of this notice and the proposed contract by reference and the proposed contract shall be executed in compliance therewith.

Copies of said plans and specifications will be on file in the office of the City Clerk, for examination by bidders on February 13, 2023. Copies may be obtained from VEENSTRA & KIMM, INC., 6775 Vista Drive, West Des Moines, Iowa 50266 at no charge.

Notice to Bidders

This notice is given by order of the Council of the City of Grinnell, Iowa.

CITY OF GRINNELL, IOWA

Dan F. Agnew, Mayor

ATTEST:

Annmarie Wingerter, City Clerk

NB-4

288223

RESOLUTION NO. 2025-178

RESOLUTION AUTHORIZING PAYMENT OF CONTRACTOR'S PAY REQUEST NO. 7 IN THE AMOUNT OF \$932,823.64 TO WRH, INC. FOR THE WATER PLANT PROJECT.

WHEREAS, the City of Grinnell did enter into a contract with WRH, Inc. on December 2, 2024, for the Water Plant Project; and

WHEREAS, Pay Estimate No. 7 has been initiated by the City of Grinnell and WRH, Inc.; and

WHEREAS, the Project Engineer has verified completion of the project in accordance with the terms of the contract and recommends approval of Pay Estimate No. 7; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GRINNELL, IOWA,

Section 1. That said improvements are hereby accepted as having been substantially completed in accordance with the said plans, specifications, and contract. The City Clerk is hereby authorized and directed to make payment in the amount of \$932,823.64 to WRH, Inc. for the Water Plant Project.

Passed and adopted this 6th day of October 2025.

Dan F. Agnew, Mayor

Attest:

Alyssa Devig, City Clerk/Finance Director

Contractor's Application for Payment

Owner: <u>City of Grinnell, IA</u> Engineer: <u>McClure Engineering Company - Coralville, IA</u> Contractor: <u>WRH, Inc. - South Amana, IA</u> Project: <u>Water System Improvements 2023</u> Contract: <u>Water Treatment Plant</u>	Owner's Project No.: <u>FS-79-24-DWSRF-006</u> Engineer's Project No.: <u>2022000116-003</u> Contractor's Project No.: <u>2402-00-1445</u>
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Application No.: <u>07 (Seven)</u>	Application Period: From <u>9/1/2025</u> to <u>9/31/2025</u>	Application Date: <u>9/29/2025</u>
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Contractor's Certification The undersigned Contractor certifies, to the best of its knowledge, the following: (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment; (2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and (3) All the Work covered by this Application for	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">1. Original Contract Price</td> <td style="width: 30%; text-align: right;">\$ 18,990,000.00</td> </tr> <tr> <td>2. Net change by Change Orders</td> <td style="text-align: right;">\$ -</td> </tr> <tr> <td>3. Current Contract Price (Line 1 + Line 2)</td> <td style="text-align: right;">\$ 18,990,000.00</td> </tr> <tr> <td>4. Total Work Completed and Materials Stored to Date (Column G Lump Sum Total)</td> <td style="text-align: right;">\$ 4,152,493.75</td> </tr> <tr> <td>5. Retainage</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. <u>5%</u> X <u>\$ 3,628,987.25</u> Work Completed</td> <td style="text-align: right;">\$ 181,449.36</td> </tr> <tr> <td style="padding-left: 20px;">b. <u>5%</u> X <u>\$ 523,506.50</u> Stored Materials</td> <td style="text-align: right;">\$ 26,175.32</td> </tr> <tr> <td style="padding-left: 20px;">c. Less Early Release of Retainage</td> <td style="text-align: right;">\$ -</td> </tr> <tr> <td style="padding-left: 20px;">d. Total Retainage (Line 5.a + Line 5.b - Line 5.c)</td> <td style="text-align: right;">\$ 207,624.68</td> </tr> <tr> <td>6. Amount Eligible to Date (Line 4 - Line 5.d)</td> <td style="text-align: right;">\$ 3,944,869.07</td> </tr> <tr> <td>7. Less Previous Payments (Line 6 from Prior Application)</td> <td style="text-align: right;">\$ 3,012,045.43</td> </tr> <tr> <td>8. Amount Due This Application</td> <td style="text-align: right; background-color: yellow;">\$ 932,823.64</td> </tr> <tr> <td>9. Balance to Finish, Including Retainage (Line 3 - Line 4)</td> <td style="text-align: right;">\$ 15,045,130.93</td> </tr> </table>	1. Original Contract Price	\$ 18,990,000.00	2. Net change by Change Orders	\$ -	3. Current Contract Price (Line 1 + Line 2)	\$ 18,990,000.00	4. Total Work Completed and Materials Stored to Date (Column G Lump Sum Total)	\$ 4,152,493.75	5. Retainage		a. <u>5%</u> X <u>\$ 3,628,987.25</u> Work Completed	\$ 181,449.36	b. <u>5%</u> X <u>\$ 523,506.50</u> Stored Materials	\$ 26,175.32	c. Less Early Release of Retainage	\$ -	d. Total Retainage (Line 5.a + Line 5.b - Line 5.c)	\$ 207,624.68	6. Amount Eligible to Date (Line 4 - Line 5.d)	\$ 3,944,869.07	7. Less Previous Payments (Line 6 from Prior Application)	\$ 3,012,045.43	8. Amount Due This Application	\$ 932,823.64	9. Balance to Finish, Including Retainage (Line 3 - Line 4)	\$ 15,045,130.93
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Contractor: <u>Colton Singbeil</u> WRH, Inc. <u>Singbeil</u> Signature: <u>15:22:56 -05'00'</u> Date: _____	Recommended by Engineer - McClure Engineering Company By: <u>Trent Wilson, P.E.</u> Title: <u>Project Manager</u> Date: <u>10/2/2025</u> Approved by Owner - City of Grinnell, IA By: _____ Title: <u>Mayor</u> Date: <u>10/6/2025</u> Approved by Funding Agency By: _____ Title: _____ Date: _____
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Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of Grinnell, IA	Owner's Project No.:	FS-79-24-DWSRF-006
Engineer:	McClure Engineering Company - Coralville, IA	Engineer's Project No.:	2022000116-003
Contractor:	WRH, Inc. - South Amana, IA	Contractor's Project No.:	2402-00-1445
Project:	Water System Improvements 2023		
Contract:	Water Treatment Plant		

Application No.:	07 (Seven)	Application Period:	From	09/01/25	to	9/31/2025	Application Date:	09/29/25
A	B	C	D	E	F	G	H	I
Item No.	Description	Scheduled Value (\$)	Work Completed		Materials Currently Stored (not in D or E) (\$)	Work Completed and Materials Stored to Date (D + E + F) (\$)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) (\$)
			(D + E) From Previous Application (\$)	This Period (\$)				
Original Contract								
DIVISION 1 - GENERAL REQUIREMENTS								
1.1	Bonds / Permits / Insurance / Builders Risk Ins.	631,650.00	631,650.00	-		631,650.00	100%	-
1.2	Administration / Project Management	420,000.00	90,000.00	15,000.00		105,000.00	25%	315,000.00
1.3	Mobilization	350,000.00	350,000.00	-		350,000.00	100%	-
1.4	Demobilization	50,000.00	-	-		-	0%	50,000.00
1.5	SWPPP	60,000.00	14,875.00	2,150.00		17,025.00	28%	42,975.00
DIVISION 2 - EXISTING CONDITIONS								
2.1	Concrete Demolition	320,000.00	-	-		-	0%	320,000.00
2.2	Process Equipment and Pipe Demolition	75,000.00	-	-		-	0%	75,000.00
DIVISION 3 - CONCRETE								
3.1	Concrete Submittals	5,000.00	5,000.00	-		5,000.00	100%	-
3.2	Concrete Reinforcing	62,000.00	39,500.00	10,000.00	10,000.00	59,500.00	96%	2,500.00
3.3	Cast-in-place Concrete	248,000.00	248,000.00			248,000.00	100%	-
3.4	Transformer / Generator / Surge Relief Vessel Pads	25,000.00	-	-		-	0%	25,000.00
3.5	Concrete Finishing	75,000.00	-	15,000.00		15,000.00	20%	60,000.00
3.6	Diamond Polishing Concrete Floors	14,000.00	-			-	0%	14,000.00
3.7	Precast Concrete Hollow Core Planks	30,000.00	-	2,000.00		2,000.00	7%	28,000.00
3.8	Grouting	20,000.00	-	-		-	0%	20,000.00
DIVISION 4 - UNIT MASONRY								
4.1	Masonry Submittals	10,000.00	10,000.00	-		10,000.00	100%	-
4.2	Unit Masonry (CMU)	540,000.00	8,000.00	75,000.00		83,000.00	15%	457,000.00
4.3	Unit Masonry (Brick)	360,000.00	-	-		-	0%	360,000.00
DIVISION 5 - METALS								
5.1	Metals Submittals	10,000.00	10,000.00			10,000.00	100%	-
5.2	Structural Steel	46,000.00	-	3,000.00	37,500.00	40,500.00	88%	5,500.00
5.3	Joist/ Decking	150,100.00	-	3,000.00	97,750.00	100,750.00	67%	49,350.00
5.4	Miscellaneous	91,650.00	-	-		-	0%	91,650.00
DIVISION 6 - WOOD, PLASTICS, COMPOSITES								
6.1	Wood, Plastics, Composites submittals	5,000.00	5,000.00			5,000.00	100%	-
6.2	Rough Carpentry	50,000.00	-	-		-	0%	50,000.00
6.3	Plastic Laminate Faced Architectural Cabinets	35,000.00	-	-		-	0%	35,000.00
6.4	Fiberglass Structural Assemblies	150,000.00	-	5,000.00		5,000.00	3%	145,000.00

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of Grinnell, IA	Owner's Project No.:	FS-79-24-DWSRF-006
Engineer:	McClure Engineering Company - Coralville, IA	Engineer's Project No.:	2022000116-003
Contractor:	WRH, Inc. - South Amana, IA	Contractor's Project No.:	2402-00-1445
Project:	Water System Improvements 2023		
Contract:	Water Treatment Plant		

Application No.:	07 (Seven)	Application Period:	From	09/01/25	to	9/31/2025	Application Date:	09/29/25
A	B	C	D	E	F	G	H	I
Item No.	Description	Scheduled Value (\$)	Work Completed		Materials Currently Stored (not in D or E) (\$)	Work Completed and Materials Stored to Date (D + E + F) (\$)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) (\$)
			(D + E) From Previous Application (\$)	This Period (\$)				
DIVISION 7 - THERMAL and MOISTURE PROTECTION								
7.1	Thermal and Moisture Protection submittals	5,000.00	-	-		-	0%	5,000.00
7.2	Thermal Insulation	15,000.00	2,500.00	5,000.00		7,500.00	50%	7,500.00
7.3	Weather barriers	30,000.00	-	-		-	0%	30,000.00
7.4	Underslab Vapor Barriers	8,000.00	-	4,000.00		4,000.00	50%	4,000.00
7.5	Firestopping	10,000.00	-	-		-	0%	10,000.00
7.6	Aluminum Honeycomb Panel System	55,000.00	-	-		-	0%	55,000.00
7.7	Thermoplastic Polyolefin Roofing	150,000.00	-	-		-	0%	150,000.00
7.8	Sheet Metal Work	45,700.00	-	-		-	0%	45,700.00
7.9	Access Hatches	5,000.00	-	-		-	0%	5,000.00
7.10	Joint Sealants	20,000.00	-	-		-	0%	20,000.00
DIVISION 8 - OPENINGS								
8.1	Openings Submittals	10,000.00	9,000.00	-		9,000.00	90%	1,000.00
8.2	Hollow Metal Frames and Doors	30,000.00	-	5,000.00		5,000.00	17%	25,000.00
8.3	Flush Wood Doors	15,777.00	-	-		-	0%	15,777.00
8.4	Insulated Rolling service Doors	150,000.00	-	-		-	0%	150,000.00
8.5	Aluminum-Framed Entrances and Storefronts	65,388.00	-	-		-	0%	65,388.00
8.6	Finish Hardware	5,000.00	-	-		-	0%	5,000.00
8.7	Glazing	108,800.00	-	-		-	0%	108,800.00
DIVISION 9 - FINISHES								
9.1	Finishes Submittals	5,000.00	4,000.00			4,000.00	80%	1,000.00
9.2	Gypsum Board	15,000.00	-	-		-	0%	15,000.00
9.3	Acoustical and Kitchen Ceiling Tile	12,000.00	-	-		-	0%	12,000.00
9.4	Resilient Base	8,000.00	-	-		-	0%	8,000.00
9.5	Resinous Flooring	18,000.00	-	-		-	0%	18,000.00
9.6	Tile Carpeting	5,000.00	-	-		-	0%	5,000.00
9.7	Decorative Fiberglass Reinforced Wall Panels	10,000.00	-	-		-	0%	10,000.00
9.8	Painting and Coating	250,000.00	-	-		-	0%	250,000.00
9.9	High-Performance Coatings	120,000.00	-	-		-	0%	120,000.00
DIVISION 10 - SPECIALTIES								
10.1	Signage	12,000.00	-	-		-	0%	12,000.00
10.2	Toilet Accessories	5,000.00	-	-		-	0%	5,000.00
10.3	Fire Extinguishers	3,000.00	-	-		-	0%	3,000.00

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

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Application No.: 07 (Seven) Application Period: From 09/01/25 to 9/31/2025 Application Date: 09/29/25

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			(D + E) From Previous Application (\$)	This Period (\$)				

DIVISION 12 - FURNISHINGS

12.1	Furnishings submittals	5,000.00	5,000.00			5,000.00	100%	-
12.2	Lab Equipment and Furnishings Allowance	150,000.00	-	-		-	0%	150,000.00
12.3	Motorized Roller Shades	7,000.00	-	-		-	0%	7,000.00

DIVISION 21 - FIRE SUPPRESSION

21.1	Fire Suppression Submittal	5,000.00	5,000.00			5,000.00	100%	-
21.2	Wet-Pipe Sprinkler Systems	44,620.00	-	-		-	0%	44,620.00

DIVISION 22 - PLUMBING

22.1	Plumbing Submittals	5,000.00	5,000.00	-		5,000.00	100%	-
22.2	Facility Water Distribution (Labor)	130,000.00	-	7,000.00		7,000.00	5%	123,000.00
22.3	Facility Water Distribution (Materials)	85,000.00	-	18,000.00		18,000.00	21%	67,000.00
22.4	Facility Sanitary Sewage (Labor)	19,854.00	10,000.00			10,000.00	50%	9,854.00
22.5	Facility Sanitary Sewage (Materials)	65,000.00	35,000.00			35,000.00	54%	30,000.00
22.6	Facility Storm Sewage (Labor)	32,000.00	-	-		-	0%	32,000.00
22.7	Facility Storm Sewage (Materials)	50,000.00	-	-		-	0%	50,000.00

DIVISION 23 - HVAC

23.1	HVAC Submittals	15,000.00	15,000.00	-		15,000.00	100%	-
23.2	HVAC Equipment	370,000.00	-	-	115,677.00	115,677.00	31%	254,323.00
23.3	HVAC Labor	257,100.00	-	-		-	0%	257,100.00
23.4	Testing and balancing	25,000.00	-	-		-	0%	25,000.00

DIVISION 26 - ELECTRICAL

26.1	Electrical Submittals	10,000.00	5,000.00	-		5,000.00	50%	5,000.00
26.2	Electrical Requirements (Materials)	37,500.00	-	21,780.00		21,780.00	58%	15,720.00
26.3	Electrical Requirements (Labor)	18,000.00	-	4,000.00		4,000.00	22%	14,000.00
26.4	Wiring Material (conduit and wiring) (Materials)	535,000.00	-	53,293.90	130,927.10	184,221.00	34%	350,779.00
26.5	Wiring Material (conduit and wiring) (Labor)	400,000.00	-	38,000.00		38,000.00	10%	362,000.00
26.6	Electrical Equipment (Materials)	515,000.00	-	15,389.22		15,389.22	3%	499,610.78
26.7	Electrical Equipment (Labor)	215,000.00	-	10,000.00		10,000.00	5%	205,000.00
26.8	Lighting and Wiring Devices (Materials)	100,000.00	-	-	18,054.40	18,054.40	18%	81,945.60
26.9	Lighting and Wiring Devices (Labor)	60,000.00	-	-		-	0%	60,000.00
26.10	Well 8 Standby Power Systems (Materials)	165,000.00	-	-		-	0%	165,000.00
26.11	Well 8 Standby Power Systems (Labor)	85,000.00	-	-		-	0%	85,000.00
26.12	Well 9 Standby Power System (Materials)	175,000.00	-	-		-	0%	175,000.00
26.13	Well 9 Standby Power System (Labor)	75,000.00	-	-		-	0%	75,000.00
26.14	WTP Standby Power System (Materials)	420,000.00	-	-		-	0%	420,000.00
26.15	WTP Standby Power System (Labor)	100,000.00	-	-		-	0%	100,000.00

DIVISION 28 - ELECTRIC SAFETY AND SECURITY

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

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			(D + E) From Previous Application (\$)	This Period (\$)				
28.1	Electric Safety and Security Submittals	10,000.00	5,000.00			5,000.00	50%	5,000.00
28.2	Access Control and Surveillance (Materials)	13,598.00	-	-	13,598.00	13,598.00	100%	-
28.3	Access Control and Surveillance (Labor)	11,523.00	-	-		-	0%	11,523.00
28.4	Intruder Detection and Alarm Allowance	25,000.00	-	-		-	0%	25,000.00
DIVISION 31 - EARTHWORK								
31.1.	Over-Excavation	100,000.00	100,000.00	-		100,000.00	100%	-
31.2	Engineered / Aggregate fill	120,000.00	120,000.00	-		120,000.00	100%	-
31.3	Excavate and Backfill Footings	120,000.00	100,000.00			100,000.00	83%	20,000.00
31.4	Site Grading	80,000.00	15,000.00	15,000.00		30,000.00	38%	50,000.00
DIVISION 32 - EXTERIOR IMPROVEMENTS								
32.1	Concrete Pavement	150,000.00	-	-		-	0%	150,000.00
32.2	Asphalt Pavement	100,000.00	-	-		-	0%	100,000.00
32.3	Sidewalks, Shared Use Paths and Driveways	50,000.00	-	-		-	0%	50,000.00
32.4	Seeding	20,000.00	-	-		-	0%	20,000.00
DIVISION 33 - UTILITIES								
33.1	Utilities Submittals	15,000.00	15,000.00	-		15,000.00	100%	-
33.2	Submersible Turbine Well Pump and Motor	656,384.00	-	-		-	0%	656,384.00
33.3	Well Development and Testing - Chlorine Shock (Unit Price 1: 1 LS @ \$19,793.00 / LS)	19,793.00	-	-		-	0%	19,793.00
33.4	Well Development and Testing - Acid Treatment (Unit Price 2: 1 LS @ \$47,093.00 / LS)	47,093.00	-	-		-	0%	47,093.00
33.5	Well Development and Testing - Surging/Balling (Unit Price 3: 80 HR @ \$745.00 / HR)	59,600.00	-	-		-	0%	59,600.00
33.6	Well Abandonment	174,000.00	-	-		-	0%	174,000.00
33.7	Water Utility System	275,000.00	130,000.00	5,349.13	100,000.00	235,349.13	86%	39,650.87
33.8	Sanitary Utility System	150,000.00	-	10,000.00		10,000.00	7%	140,000.00
33.9	Storm Water Utility System	150,000.00	-	-		-	0%	150,000.00

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of Grinnell, IA	Owner's Project No.:	FS-79-24-DWSRF-006
Engineer:	McClure Engineering Company - Coralville, IA	Engineer's Project No.:	2022000116-003
Contractor:	WRH, Inc. - South Amana, IA	Contractor's Project No.:	2402-00-1445
Project:	Water System Improvements 2023		
Contract:	Water Treatment Plant		

Application No.:	07 (Seven)	Application Period:	From	09/01/25	to	9/31/2025	Application Date:	09/29/25
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Item No.	Description	Scheduled Value (\$)	Work Completed		Materials Currently Stored (not in D or E) (\$)	Work Completed and Materials Stored to Date (D + E + F) (\$)	% of Scheduled Value (G / C) (%)	Balance to Finish (C - G) (\$)
			(D + E) From Previous Application (\$)	This Period (\$)				
DIVISION 40 - PROCESS INTERCONNECTIONS								
40.1	Process Interconnections Submittals	20,000.00	15,000.00			15,000.00	75%	5,000.00
40.2	Process Piping - Ductile Iron	195,000.00	-	-		-	0%	195,000.00
40.3	Process Piping - PVC	100,700.00	-	-		-	0%	100,700.00
40.4	Process Piping - Stainless Steel	305,000.00	-	-		-	0%	305,000.00
40.5	Pipe Hangers and Supports Materials	80,000.00	-	-		-	0%	80,000.00
40.6	Process valves	230,000.00	-	-		-	0%	230,000.00
40.7	Liquid Chemical Piping and Valves	40,000.00	-	-		-	0%	40,000.00
40.8	Process Instrumentation (Materials)	535,000.00	-	-		-	0%	535,000.00
40.9	Process Instrumentation (Labor)	70,000.00	-	-		-	0%	70,000.00
40.10	Control Descriptions (Materials)	355,000.00	-	-		-	0%	355,000.00
40.11	Control Descriptions (Labor)	30,000.00	-	-		-	0%	30,000.00
40.12	Scada System Equipment (Materials)	525,000.00	-	-		-	0%	525,000.00
40.13	Scada System Equipment (Labor)	85,000.00	-	-		-	0%	85,000.00
40.14	Controls Startup and Training	15,000.00	-	-		-	0%	15,000.00
DIVISION 41 - MATERIAL PROCESSING AND HANDLING EQUIPMENT								
41.1	Monorail Hoist and Trolley Submittals	1,500.00	1,500.00	-		1,500.00	100%	-
41.2	Monorail Hoist and Trolley	10,000.00	-	-		-	0%	10,000.00
DIVISION 43 - PROCESS GAS AND LIQUID HANDLING, PURIFICATION AND STORAGE EQUIPMENT								
43.1	Process Gas / Liquid Handling Submittals	15,000.00	15,000.00			15,000.00	100%	-
43.2	Vertical Turbine Pumps Open Lineshaft Type in Can	230,000.00	-	-		-	0%	230,000.00
43.3	High Density Cross-Linked Poly Storage Tanks	40,000.00	-	-		-	0%	40,000.00
43.4	Testing Tanks and Reservoirs	5,000.00	-	-		-	0%	5,000.00
43.5	Wire-wound Prestressed Concrete Tank (WWPCT) Submittal	60,000.00	60,000.00			60,000.00	100%	-
43.6	WWPCT - Mobilization	118,000.00	118,000.00			118,000.00	100%	-
43.7	WWPCT- Interior Tank Piping / Floor / Wall Footings	183,000.00	158,000.00	25,000.00		183,000.00	100%	-
43.8	WWPCT - Casting Wall Panels / Dome Panels	408,000.00	408,000.00			408,000.00	100%	-
43.9	WWPCT - Erect Wall Panels	113,000.00	113,000.00			113,000.00	100%	-
43.10	WWPCT - Shotcrete / Wire Prestressing / Wire Cover	143,000.00	-	143,000.00		143,000.00	100%	-
43.11	WWPCT - Shoring & Form / Erect Dome Panels	113,000.00	113,000.00			113,000.00	100%	-
43.12	WWPCT - Tank Appurtenances	33,000.00	-	20,000.00		20,000.00	61%	13,000.00
43.13	WWPCT - Exterior Tank Coating	95,000.00	-	95,000.00		95,000.00	100%	-
43.14	WWPCT - Testing / Disinfection Tanks and Reservoirs	34,000.00	-	-		-	0%	34,000.00
43.15	Surge Relief Vessels	228,000.00	-	-		-	0%	228,000.00

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of Grinnell, IA					Owner's Project No.: FS-79-24-DWSRF-006		
Engineer:	McClure Engineering Company - Coralville, IA					Engineer's Project No.: 2022000116-003		
Contractor:	WRH, Inc. - South Amana, IA					Contractor's Project No.: 2402-00-1445		
Project:	Water System Improvements 2023							
Contract:	Water Treatment Plant							

Application No.:	07 (Seven)	Application Period:	From	09/01/25	to	9/31/2025	Application Date:	09/29/25
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			(D + E) From Previous Application (\$)	This Period (\$)				
DIVISION 46 - WATER AND WASTEWATER EQUIPMENT								
46.1	Water and Wastewater Equipment Submittals	15,000.00	10,000.00	-		10,000.00	67%	5,000.00
46.3	Forced Draft Aerator	280,000.00	-	-		-	0%	280,000.00
46.4	Submersible Mixer	40,000.00	-	-		-	0%	40,000.00
46.5	Membrane Treatment Equipment	2,251,670.00	-	-		-	0%	2,251,670.00
46.6	Membrane Treatment Equipment (Release To FAB)	230,000.00	-	-		-	0%	230,000.00
						-		-
		\$ 18,990,000.00	\$ 3,004,025.00	\$ 624,962.25	\$ 523,506.50	\$ 4,152,493.75	22%	\$ 14,837,506.25

Progress Estimate - Lump Sum Work

Contractor's Application for Payment

Owner:	City of Grinnell, IA	Owner's Project No.:	FS-79-24-DWSRF-006
Engineer:	McClure Engineering Company - Coralville, IA	Engineer's Project No.:	2022000116-003
Contractor:	WRH, Inc. - South Amana, IA	Contractor's Project No.:	2402-00-1445
Project:	Water System Improvements 2023		
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Application No.:	07 (Seven)	Application Period:	From	09/01/25	to	9/31/2025	Application Date:	09/29/25
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			(D + E) From Previous Application (\$)	This Period (\$)				
Change Orders								
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Contractor's Application for Payment

EJCDC C-620 Contractor's Application for Payment
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Owner:	City of Grinnell, IA	Owner's Project No.:	FS-79-24-DWSRF-006
Engineer:	McClure Engineering Company - Coralville, IA	Engineer's Project No.:	2022000116-003
Contractor:	WRH, Inc. - South Amana, IA	Contractor's Project No.:	2402-00-1445
Project:	Water System Improvements 2023		
Contract:	Water Treatment Plant		
Application No.: <u>07 (Seven)</u> Application Period: From <u>09/01/25</u> to <u>9/31/2025</u> Application Date: <u>09/29/25</u>			

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Page 140 of 151

RESOLUTION NO. 2025-179

A RESOLUTION APPROVING CONTRACT CHANGE ORDER NO. 1 IN THE AMOUNT OF \$16,197.00 TO THE CONTRACT WITH BRAUN INTERTEC, FOR CONSTRUCTION MATERIALS TESTING AND SPECIAL INSPECTION, ON THE GRINNELL WATER SYSTEMS IMPROVEMENTS PROJECT.

WHEREAS, the City of Grinnell did enter into a contract with Braun Intertec on December 2, 2024, to perform construction materials testing and special inspections on the at the Water Treatment Plant; and

WHEREAS, Braun Intertec has submitted Contract Change Order in the amount of \$16,197.00 and

WHEREAS, the Project Engineer has reviewed the change order and recommends approval of Contract Change Order No. 1; and

NOW, THEREFORE, BE IT RESOLVED, by the City Council of Grinnell, Iowa, in regular session this 6th day of October 2025 that the contract has been modified in accordance with Contract Change Order No. 1 is hereby approved as executed.

Passed and adopted this 6th day of October 2025.

Dan F. Agnew, Mayor

Attest:

Alyssa Devig, City Clerk/Finance Director

Change Order Authorization

B2411209 - Change Order 1

Grinnell Water System Improvements Water Treatment

Date: 10/2/25

Client:	Work Site Address:	Service Description:
City of Grinnell Russ Behrens 520 4th Ave Grinnell, IA 50112	703 Broad Street Grinnell, IA 50112	Construction Materials Testing - Tank Testing

Dear Mr. Behrens,

During construction of the Grinnell Water System Improvements Water Treatment Plant project, we were contacted by the project team to perform construction materials testing services for the proposed 0.25 MG Storage Tank (Clearwell Tank). The requested scope of services included observations and testing of concrete and shotcrete for the tank, and associated project management.

These Tank Testing services were originally understood to be contracted by the Contractor, and were thus beyond the scope of our original proposal for the project. However, the project team requested we perform these services under our existing contract for Special Inspections and Materials Testing for the project. The services were completed between July 22, 2025 and September 11, 2025. We are submitting this Change Order Authorization Request to increase our budget to reflect the increase of scope. The requested budget increase is summarized in the following Change Order Details and Budget Summary tables.

Change Order Details								
Description	Action	Total Quantity		Sales Price		Total Sales Amount		CO Total
		Orig	New	Orig	New	Orig	New	
Project: B2411209 - Grinnell Water System Improvements Water Treatment						\$36,466.50	\$52,663.50	\$16,197.00
Phase: 1 -Construction and Materials Testing						\$36,466.50	\$52,663.50	\$16,197.00
Activity: 1.1 -Soil Observations and Testing						\$16,520.00		
Activity: 1.2 -Concrete Observations and Testing						\$8,441.50	\$23,138.50	\$14,697.00
260 -Concrete Observations	Update		12.00	75.00			900.00	900.00
1490 -Compressive strength of 2x2 shotcrete cube (ASTM C 109), per specimen	Add		27.00		35.00		945.00	945.00
261 -Concrete Testing	Update	50.50	160.50	65.00		3,282.50	10,432.50	7,150.00
278 -Concrete Cylinder Pick up	Update	21.00	41.00	65.00		1,365.00	2,665.00	1,300.00
1861 -CMT Trip Charge	Update	21.00	36.00	90.00		1,890.00	3,240.00	1,350.00
1364 -Compressive strength of concrete cylinders (ASTM C 39),per specimen	Update	68.00	177.00	28.00		1,904.00	4,956.00	3,052.00
Activity: 1.3 -Masonry Observations and Testing						\$4,875.00		
Activity: 1.4 -Structural Steel Observations						\$1,440.00		
Activity: 1.5 -Project Management						\$5,190.00	\$6,690.00	\$1,500.00
238 -Project Assistant	No change	10.00		75.00		750.00		
226 -Project Manager	Update	20.00	30.00	150.00		3,000.00	4,500.00	1,500.00
128 -Senior Engineer	No change	8.00		180.00		1,440.00		

Change Order Authorization

B2411209 - Change Order 1

Grinnell Water System Improvements Water Treatment

Date: 10/2/25

Budget Summary	
	Amount
Original Contract Amount: Construction Materials Testing and Special Inspections	\$36,466.50
Change Order 1 - Pending: Construction Materials Testing - Tank Testing	\$16,197.00
Revised Budget: The new total budget after pending change orders	\$52,663.50

Authorization	
Braun Intertec Corporation	Customer
This Change Order is a continuation of our services under the terms of our Proposal QTB205074-Rev. 1, dated November 26, 2024, and authorized on December 2, 2024. Please contact Robert Gabler at 515.326.0506 with any questions or to discuss in further detail. Sincerely, BRAUN INTERTEC CORPORATION  Robert Gabler, EIT Operations Supervisor  Ben Butler, PE Senior Manager	The change order is accepted, and you are authorized to proceed. _____ Authorizer's Firm _____ Authorizer's Signature _____ Authorizer's Name (please print or type) _____ Authorizer's Title _____ Date

**Sent via Electronic Mail
Receipt Confirmation Requested**

October 2, 2025

MAYOR AGNEW
GRINNELL WATER DEPARTMENT
520 4TH AVE
GRINNELL IA 50112-1947
dagnew@grinnelliowa.gov

Subject: Grinnell Water Department Sanitary Survey
Public Water Supply ID # IA7930008

Dear Mayor Agnew and Council Members:

Enclosed is the report of the recent sanitary survey of the public water supply referenced above. We believe you will find the report self-explanatory and strongly encourage you to take action on the conclusions listed.

No significant deficiencies were identified during this survey; however, several minor deficiencies, recommendations, and reminders are summarized at the end. By November 3, 2025, please submit a copy of the written lead and copper monitoring plan, USG 2025 inspection report, confirmation of the condition of the screens on the detention tank vents, and confirmation that the detention tank hatches are locked.

If you have any questions about the inspection or report, please contact Janet Gastineau (515-250-4291 or janet.gastineau@dnr.iowa.gov).

The cooperation and assistance of Keagan Richmond in completing this survey is appreciated.

Sincerely,



Digitally signed by Ted Petersen
Date: 2025.10.02 13:39:40 -05'00'

Ted Petersen
Supervisor, Field Office #5

Enclosure(s):

c.: Water Supply Operations (w/encl. via email: pwsrecords@dnr.iowa.gov)
Keagan Richmond (w/encl. via email: KRichmond@grinnelliowa.gov)
Grinnell City Administrator (w/encl. via email: rbehrens@grinnelliowa.gov)

PUBLIC WATER SUPPLY INFORMATION

SYSTEM	NAME: GRINNELL WATER DEPARTMENT		PWS CLASSIFICATION: Community	
	ADDRESS: CITY OF GRINNELL, ATTN MAYOR, 520 4TH AVE CITY HALL, GRINNELL, IA, 50112-1947		PHONE: 641-236-2600	
	RESPONSIBLE AUTHORITY/OWNER: CITY OF GRINNELL			
	ADDRESS: CITY OF GRINNELL, ATTN MAYOR, 520 4TH AVE CITY HALL, GRINNELL, IA, 50112-1947		PHONE: 641-236-2600	
	TREATMENT GRADE: WT3		DISTRIBUTION GRADE: WD2	WATER USE PERMIT #: 3299

SOURCE/ENTRY POINT	SDWIS NAME: WLS 5-9 @ PLT AFTER TREATMENT	DESCRIPTION/PHYSICAL LOCATION: lab sink
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RESPONSIBLE OPERATOR(S)	NAME: KEAGAN RICHMOND	WT GRADE: WT4	WD GRADE: WD4	CERTIFICATION #: 12198
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SURVEY INFORMATION

SURVEY	DATE THIS SURVEY: 9/15/2025	DATE LAST SURVEY: 12/16/2022		PURPOSE: Routine Sanitary Survey
PERSON INTERVIEWED	NAME: Keagan Richmond		TITLE: Water Superintendent	
CONSUMPTION	Period Reviewed: 9/2024-8/2025	AVERAGE DAILY USE (MGD): 0.9986	MAXIMUM DAILY USE (MGD): 1.620	PE @100 GPCD: 9986
POPULATION SERVED	TOTAL NUMBER OF SERVICE CONNECTIONS: 3359		POPULATION OUTSIDE CORPORATE LIMITS: 5	
	CENSUS POPULATION: 9565		TOTAL POPULATION SERVED*: 9569	
	MILES OF PIPE (RURAL SYSTEMS ONLY): NA			

*equals census pop. + population outside corp. limits(2.5 X # of service connections or actual pop.)

SURVEY INFORMATION

ASSESSMENTS	SOURCE CLASSIFICATION: Ground water	ORGANIC CHEMICAL PHYSICAL VULNERABILITY (SW/IGW SYSTEMS ONLY): No
	ORGANIC CHEMICAL VULNERABILITY (GW SYSTEMS ONLY): No	ORGANIC PHYSICAL VULNERABILITY (GW SYSTEMS ONLY): No

AUTHENTICATION

INSPECTOR	NAME/TITLE: Janet Gastineau, Environmental Specialist Senior Janet Gastineau Digitally signed by Janet Gastineau Date: 2025.10.02 09:55:42 -05'00'	DATE: 9/30/2025
REVIEWER	NAME/TITLE: Bill Gross, Environmental Specialist Senior  Digitally signed by Bill Gross Date: 2025.10.02 11:39:59 -05'00'	DATE: 10/2/2025

General Description

SOURCE: Water is derived from four Jordan aquifer wells. Well No. 6 was drilled in 1926 to a depth of 2,500 ft and is located on the north side of the treatment plant. Well No. 7 was drilled in 1955 to a depth of 2,500 ft. and is located approximately 500' southwest of the treatment plant in a small city-owned park on the east side of Highway 146. Well No. 8 was drilled in 1974 to a depth of 2,510 ft. and is located on the east end of the city shop property. Well No. 9 was completed in 2002 to a depth of 1,825 ft. and is located in Miller Park. Wells 7, 8, and 9 have portable generator connections.

TREATMENT: Treatment consists of forced draft aeration and pre-chlorination for iron/manganese removal and detention in a 1.0 MG baffled detention tank (10-11hrs.). Four in-plant/process pumps are used to pump water from detention to the distribution system. Sodium hexametaphosphate for corrosion control and sodium hypochlorite for disinfection are injected post pumping. The plant has the capacity to produce 3.2 MG of water per day. There is a diesel engine for emergency power on one of the in-plant/process pumps (#4) in the water treatment plant in the event of power failures. The above ground diesel storage tank is located in the same room as the phosphate feed system, but there is secondary containment. The chlorine feed is in a separate room accessed from a door outside the water plant.

STORAGE: Pressure and storage for distribution is provided by a 300,000 gallon elevated storage tower located southwest of the water plant. The city has a connection to Poweshiek Rural Water (PWA) to provide PWA water for emergencies; due to pressure differences Grinnell is incapable of receiving rural water during emergencies.

1. Sources

- Development and implementation of Source Water Protection plans are encouraged for all wells and may result in fewer monitoring requirements in the future. It is recommended that the facility update the 2005 Source Water Protection Plan to include the plugging of well numbers 5 and 6 and construction of Well #10. Please contact Matt Dvorak, Source Water Protection Coordinator, via email at matthew.dvorak@dnr.iowa.gov or telephone 515-322-7727 or Iowa Rural Water Association at 641-787-0330 for assistance with developing a plan.
- Well #10, a new Jordan Aquifer well, is under construction. It was meant to be pump tested by now, but the well driller, Cahoy, was having problems with the generator used for the test pump. The well will be put into use with the start up of the new water treatment plant, also under construction. Well #6 will be properly plugged when this well is put into service.
- Well #5 is no longer in use or capable of being used. Wells that meet the definition of an abandoned well (no longer in use or in such disrepair that continued use is unsafe or impractical) must be plugged in accordance with Chapter 567 IAC 39 within 90 days of abandonment. The water system plans to properly abandon this well when Well #10 is complete.
- Drainage must be directed away from Well #8 in all directions for a minimum radius of 15 feet. [567 IAC 43.3(7)"b"] Water system improvements to Well #8 are included with the current project. A surge tank will be added to it, for example, to protect the new nanofiltration treatment units.
- Well numbers 7 and 8 are protected with fencing and a locked gate. The four source wells are rotated regularly. Wells 8 and 9 were both serviced since the previous sanitary survey.

2. Treatment

- A new water treatment plant was permitted by the Iowa DNR April 17, 2025. The plant site is starting to look like a building as block is laid to form walls. The contractor is completing footings, grading, and coordinating with plumbers to install drainage in preparation for pouring the floor in the coming weeks. Electricians are burying pipe to power the treatment units and pumps. The concrete finished water ground storage reservoir is nearly finished and being prepped for painting. Nanofiltration membrane treatment with a capacity of 604 gpm was the selected treatment technology, which will reduce radium, iron, manganese, ammonia, total dissolved solids, hardness, and sulfate. Estimated completion date of the plant is December 2027.

- The water plant currently has no way to sample the blended source/raw water delivered to the water plant before treatment. Operators are currently using a tap post-aeration. A raw water sample tap must be present to allow the water system to test for contaminants that might be present or any changes in source water quality. This is being addressed with the new water treatment plant.
- It was not confirmed at the time of this survey whether the hatches on the detention tank were locked and whether the vents were properly screened. Please submit documentation of the following:
 - Air vents on ground-level structures must be fitted with a 24 mesh non-corrodible screen within the pipe at a location least susceptible to vandalism. [Recommended Standards for Water Works 7.09.e]
 - Treatment plant storage tanks/basins such as detention basins shall be designed as finished water storage structures. Therefore, each access manhole must have a locking device to prevent unauthorized access to the storage facility. [Recommended Standards for Water Works 7.1.4]
- There is a slight crack in the existing detention tank. Concrete spalling, foundation failures, leakage or cracks in the treatment plant water storage structure can allow ground or surface water into the tank. Although it is recommended that a qualified engineer evaluate the integrity of the storage structure, this tank will be taken out of service when the new water plant is placed into service.



Crack in the existing detention tank and new water treatment plant under construction. Well #10 is near the white crane. The new concrete finished water ground storage tank is visible in the background to the left.

3. Distribution System

- A main break was reported during this survey and the operator believes these happen frequently. Main breaks are one of the normal problems in a water system, but if the breaks are frequent, there may be a problem with the integrity of the piping. Each main break opens the system to contamination, and frequent breaks increase the potential for introducing waterborne pathogens into the system. Most breaks are due to leaks, not age. Leaks undermine the pipe, causing it to fail under the weight of the overburden. To prevent main breaks, a routine leak detection program should be conducted and a record of distribution system repairs should be kept that identifies the location and type of repair, repair device or length of replacement pipe, and general condition of the line. Operators are diligently prioritizing distribution system projects to address years of maintenance neglect.
- The distribution system shall have enough functioning isolation and blow-off valves to minimize inconvenience and sanitary hazards during repairs. [Recommended Standards for Water Works 8.3] Valves should be located at not more than 500-foot intervals in commercial districts and at not more than one block or 800-foot intervals in other districts. Where systems serve widely scattered customers and where future development is not expected, the valve spacing should not exceed one mile.
- During this survey the operator reported the most recent water audit determined there to be a greater than 15 percent loss of water produced or purchased. Implementation of leak detection will reduce the cost of producing water, minimize public health risk, and help conserve water; therefore, it is recommended this system implement a leak detection program or perform a more comprehensive water audit to better assess and understand the occurrence of water and revenue losses. Free software is also available through the American Water Works Association at the following website: <https://www.awwa.org/resources-tools/water-knowledge/water-loss-control.aspx>. A guidance document on implementing an effective water loss control plan published by the Water Research Foundation can

also be found at <http://www.waterrf.org/PublicReportLibrary/4695.pdf>. This water system now has their own listening equipment for locating leaks.

- Cross-connection control devices or assemblies in the distribution system shall be tested at the time of installation, repair, and not less than on an annual schedule thereafter, or more often where required by the authority having jurisdiction. Testing or maintenance shall be performed by a certified backflow assembly tester or repairer. [481 IAC 476.2(135K), Section 603.1, and 603.2 of the Uniform Plumbing Code], Section 603.1, and 603.2 of the Uniform Plumbing Code]
- The minimum size of water main which provides for fire protection and serving fire hydrants shall be six-inch diameter. The minimum size of water main in the distribution system where fire protection is not to be provided should be a minimum of three-inch diameter. When fire protection is provided, it should be limited to segments of the distribution system that are served with adequately sized piping between the point of use and the treatment plant and in accordance with the requirements of the State Insurance Services Office. [Recommended Standards for Water Works 8.2.2 and 8.2.3]
- Lead service lines and lead goose necks have been identified in the distribution system; these sources are known to be one of the major contributors to high lead levels in finished water delivered to customers. Efforts should be taken to replace these as they are discovered. A State Revolving Fund loan application for a lead service line replacement program is currently under review by the Water Supply Engineering Section (Project W2023-0623/FS-79-DWSRF-037).

4. Finished Water Storage

- Finished water storage structures which provide pressure directly to the distribution system shall be designed so they can be isolated from the distribution system and drained for cleaning or maintenance without causing a loss of pressure in the distribution system. The storage structure drain shall discharge to the ground surface with no direct connection to a sewer or storm drain. [Recommended Standards for Water Works 7.4.2]
- The present storage capacity in the system is less than that which is recommended by the Department. Storage facilities should have sufficient capacity, as determined from engineering studies, to meet domestic demands, and where fire protection is provided, fire flow demands. For systems not providing fire protection, the minimum storage capacity (or equivalent capacity) for systems shall be equal to the average daily consumption. This requirement may be reduced when the source and treatment facilities have sufficient capacity with standby power to supplement peak demands of the system. [Recommended Standards for Water Works 7.1.1]
- Construction of a new composite elevated storage tower (EST) is underway (photo right); Caldwell Tanks is the general contractor. The final concrete pour for the pedestal was scheduled for September 15, bringing the structure to 120 feet. Steel for the tank will arrive soon, with assembly beginning in November. In the meantime, electrical service, interior piping, and ladders will be installed. Once complete, the 1 MG EST will stand 164 feet tall.
- The existing EST does not have a properly constructed overflow. All water storage structures shall be provided with an overflow which is brought down to an elevation between 12 and 24 inches above the ground surface, and discharges over a drainage inlet structure or a splash plate. [Recommended Standard for Water Works 7.1.7] During the next major modification event, the overflow should be properly constructed.
- USG Water Solutions conducted a visual inspection of the EST in September 2025, but the report was not available. Whether the existing EST continues to be used when system improvements are complete is yet to be determined. Please forward a copy to this office upon receipt.



5. Pumps, Pump Facilities and Controls

There are no deficiencies or recommendations to report based on observations made at the time of this survey.

6. Monitoring, Reporting and Data Verification

- The presence of ammonia and/or TKN at or above 0.7 mg/L in the source water indicates a potential for exceeding the nitrite maximum contaminant level (MCL) of 1.0 mg/L at the source/entry point or in the distribution system. It is recommended that special sampling for nitrite be conducted throughout the treatment process and in the distribution system. Please contact the Iowa DNR field office or a technical service provider if assistance is needed.
- The presence of ammonia at or above 0.7 mg/L in the source water indicates a potential for exceeding the nitrite maximum contaminant level (MCL) of 1.0 mg/L at the source/entry point or in the distribution system. Monitoring for ammonia and nitrite is included in the operation permit.
- During this sanitary survey disinfectant residuals were measured at the Poweshiek County shop. The free available chlorine residual was 1.69 mg/L and total residual chlorine was 1.96 mg/L, which is adequate.
- The lead service line inventory was submitted to the Iowa DNR as required. Lead and/or galvanized requiring replacement (GRR) were identified in the distribution system. Please continue to update the inventory database locally as lead or GRR lines are replaced or the material associated with lead status unknown service lines is identified. Efforts should be taken to replace lead or galvanized lines as they are discovered. The updated inventory will be required to be resubmitted to the Iowa DNR by November 1, 2027, in accordance with the Lead and Copper Rule Improvement, but more information will be provided by the Iowa DNR as that date approaches and the department prepares to implement the LCRI.
- It is recommended that the procedures for manual operation of the water treatment plant, including a regular schedule for exercising and ensuring operator's competence with the manual override systems, be included in facility operation plans. [Recommended Standards for Water Works Policy Statement]
- The system shall review the written bacterial sampling plan every two years and update it as needed and shall retain the sampling plan on file at the facility. [567 IAC 41.2(1)c]
- The written disinfection byproduct rule monitoring plan must be reviewed every three years and updated as system conditions change (such as changes in water quality or hydraulics, etc.). [567 IAC 41.6(3)"b"]
- A lead and copper sampling plan must be developed indicating where tap water samples are to be taken and the correct number to be taken during each monitoring period. The completed materials evaluation of the distribution system should be part of this plan in order to identify a pool of sampling sites that meets the requirements of the Lead and Copper Rule. [567 IAC 41.4(1) "c"(1)] A plan template is available at www.iowadnr.gov/ws-forms and was provided to Mr. Richmond electronically.

7. Water System Management and Operations

- Systems that serve more than 3,300 people are required to comply with The America's Water Infrastructure Act (AWIA), signed on October 23, 2018. Each community public water supply must certify to EPA every five years that the system completed a Risk and Resiliency Assessment (RRA) and updated their Emergency Response Plan (ERP). The next 5-year submission deadline is June 30, 2026, for the RRA and December 31, 2026, for the ERP. Please contact EPA directly at dwresilience@epa.gov if you have questions about this requirement.
- Intrusion deterrence measures (e.g., physical barriers such as fences, window grates and security doors; traffic flow and check-in points; effective lighting; lines of sight; etc.) are recommended to protect critical assets and security sensitive areas.
- Cybersecurity is important and the Iowa DNR will remain a conduit for information between the EPA, CISA, and Iowa's local water operators and systems. The following resources are available for cybersecurity assistance:
 - Cybersecurity & Infrastructure Security Agency's Free Cybersecurity Services and Tools webpage (https://www.cisa.gov/resources-tools/resources/free-cybersecurity-services-and-tools?utm_medium=email&utm_source=govdelivery);

- EPA's Cybersecurity for the Water Sector webpage (https://www.epa.gov/waterresilience/epa-cybersecurity-water-sector?utm_medium=email&utm_source=govdelivery); and
- EPA's Free Cybersecurity Evaluation Program, which will conduct a cybersecurity assessment for PWSs. The assessment will follow the checklist in the guidance on Evaluating Cybersecurity at Public Water Supplies which will then generate a report that will highlight gaps in cybersecurity (https://www.epa.gov/waterresilience/forms/epas-water-sector-cybersecurity-evaluation-program?utm_medium=email&utm_source=govdelivery).
- Please notify the Water Supply Engineering Section staff when you are ready to use Well #10, so changes to the water sources identified in the water use permit can be made. A modification will also be necessary when well numbers 5 and 6 are plugged. A permit modification will be required. [567 IAC 50.4(1)]
- Emergency conservation planning reduces the demand on the source or system experiencing a temporary shortage and conservation practices reduce chemical and electrical costs and minimizes wear and tear on equipment. An effective water conservation program is recommended and may help avoid the need for capacity expansion. Emergency water conservation plans may be required for some systems that have water use permits; please refer to the general provisions section of the water use permit. [567 IAC 52.9(3)]

8. Operator Certification Compliance

There are no deficiencies or recommendations to report based on observations made at the time of this survey.

Summary of Significant Deficiencies

There are no significant deficiencies to report based on observations made at the time of this survey.

Summary of Minor Deficiencies

1. Properly plug Well #5 and submit the well plugging record. [567 IAC 39]
2. Review the written disinfection byproduct rule monitoring plan every three years and update it as system conditions change (such as changes in water quality or hydraulics, etc.). [567 IAC 41.6(3)"b"]
3. Review the written bacterial sampling plan every two years and update it as needed. [567 IAC 41.2(1)c]
4. Develop a lead and copper sampling plan indicating where tap water samples are to be taken and the correct number to be taken during each monitoring period. The completed materials evaluation of the distribution system should be part of this plan in order to identify a pool of sampling sites that meets the requirements of the Lead and Copper Rule. [567 IAC 41.4(1) "c"(1)]
5. Drainage must be directed away from the well in all directions for a minimum radius of 15 feet. [567 IAC 43.3(7)"b"]
6. Ensure the finished water storage structure drains to the ground surface with no direct connection to a sewer or storm drain. [2022 Edition Recommended Standards for Water Works 7.4.2]

Summary of Recommendations

1. Install intrusion deterrence measures to protect critical assets and security sensitive areas.
2. Arrange for a qualified engineer to evaluate the integrity of the treatment plant storage tank.
3. Include procedures in the facility operation plan to regularly exercise manual override systems. [Recommended Standards for Water Works Policy Statement]
4. Develop an emergency conservation policy or program. [567 IAC 52.9(3)]

5. Implement a leak detection program or perform a more comprehensive water audit to better assess and understand the occurrence of water and revenue losses.
6. Update and implement the Source Water Protection Plan.
7. Cyber-attacks against public water systems are increasing. Implementing basic cyber hygiene practices can help your utility prevent, detect, respond, and recover from cyber incidents.
8. Ensure water mains are sized appropriately where fire protection is provided. [Recommended Standards for Water Works 8.2.2 and 8.2.3]
9. Equip the distribution system with enough functioning isolation and blow-off valves to minimize inconvenience and sanitary hazards during repairs. [Recommended Standards for Water Works 8.3]
10. Provide sufficient finished water storage capacity. [2022 Edition Recommended Standards for Water Works 7.1.1]
11. Modify the overflow on the elevated storage tower so the outlet is at an elevation between 12 and 24 inches above the ground surface. [2022 Edition Recommended Standards for Water Works 7.1.7]

Summary of Reminders

1. Efforts should be taken to replace lead service lines and lead goose necks as they are discovered.
2. Disinfection residuals were sampled during this sanitary survey and discussed with the operator.
3. Continue to update the lead service line inventory as necessary.