

**AGENDA**  
**REGULAR DRAINAGE MEETING**  
**January 29, 2020 9:30 AM**

1. Open Meeting
2. Approve Agenda
3. Approve Minutes

Documents:

[01\\_22\\_2020 - DRAINAGE MINUTES.PDF](#)  
[DD 86 ENG REPORT HEARING MINUTES 01\\_22\\_2020.PDF](#)

4. Approve Claims For Payment  
Approve claims for payment with a pay date of 1-31-20.

Documents:

[PAYABLES - DRAINAGE PUBLICATION 01-31-20.PDF](#)

5. DD 22 - WO 176 & 192 Comb. - Discuss W Possible Action - Change Orders 7-12

Documents:

[CHANGE ORDER 7 TO DD 22.PDF](#)  
[CHANGE ORDER 8 TO DD 22.PDF](#)  
[CHANGE ORDER 9 TO DD 22.PDF](#)  
[CHANGE ORDER 10 TO DD 22.PDF](#)  
[CHANGE ORDER 11 TO DD 22.PDF](#)  
[CHANGE ORDER 12 TO DD 22.PDF](#)

6. DD 22 - WO 276 - Discuss W Possible Action - Investigation Summary

Documents:

[DD 22 WO 276 -6532.4 - DRAINAGE INVESTIGATION SUMMARY.PDF](#)

7. DD 143 - WO 167 - Discuss W Possible Action - Surveyor's Report & Engineer's Supplemental Report  
DD 143 - WO 167 - Discuss w Possible Action - Available meeting locations and dates for a Public Hearing to discuss the Surveyor's & Engineer's Reports and Repair Options.

8. DD 34 - WO 189 -Discuss W Possible Action - Repair Summary  
DD 34 - WO 189 - Discuss possible date for Landowner Review of Repair Summary.

Documents:

[DD 34 WO 189 REPAIR SUMMARY 12\\_11\\_2019.PDF](#)

9. Discuss W Possible Action - 2020 Private Trustee Election Canvass

Documents:

[CANVASS OF 2020 DRAINAGE ELECTIONS.PDF](#)

10. DD 165 - Discuss W Possible Action - Petition For Private Trustee Control

Documents:

[DD 165 - PETITION FOR PRIVATE TRUSTEE CONTROL.PDF](#)

11. Other Business

12. Adjourn Meeting

**REGULAR DRAINAGE MEETING**  
**January 22, 2020 to Follow 11:00 AM**  
**DD 86 Landowners Meeting**

1/22/2020 - Minutes

1. Open Meeting

Hardin County Drainage District Board of Trustee Chairperson Lance Granzow opened the meeting. Also present were Trustee Renee McClellan; Landowner Greg Larson; Lee Gallentine of Clapsaddle - Garber Associates and Drainage Clerk, Denise Smith.

2. Approve Agenda

Motion by McClellan to approve the agenda, second by Granzow. All ayes. Motion carried.

3. Approve Minutes

Motion by McClellan to approve the minutes to Regular Drainage Meeting dated 01-08-2020. Second by Granzow. All ayes. Motion carried.

4. Approve Claims For Payment

Motion by McClellan to approve the claims for payment with pay date of Friday, January 24, 2020. All ayes. Motion carried.

DD BIG 4 Lat -2 - Brush Control Spraying & Labor, B&W Control Specialists \$306.25

DD 55-3 Lat 9 - Tile repairs parts labor tree rem., Honey Creek Land Improvement, LLC \$27,228.59

DD 86 - Publication of Landowner Hearing, Times Citizen \$45.12

DD Big 4 L-C - Brush Control Spraying and Labor, B&W Control Specialists \$187.25

DD 9 - WO 229 - Prof. Serv. Annex & Reclass. The Davis Brown Law Firm \$450.00

DD 22 - Pay Estimate No 1, Gehrke Inc. \$184,982.40

DD 52 - WO 215 - Tile repair, parts, labor, Honey Creek Land Improvement, LLC \$14,503.63

DD 55-3 WO 201 - Tile televiser, kill trees, digging, Honey Creek Land Improvement, LLC \$4,175.00

DD 100 - WO 248 - Tile repair, parts & labor, Honey Creek Land Improvements, LLC \$2,817.44

DD Big 4 L-4 - Brush Control spraying & labor, B&W Control Specialists \$259.25

4.I. DD 22 - WO 176 - Discuss W Possible Action - Pay Estimate No. 1

DD 22 WO 176 - WO 176 - Change orders to the original bid were discussed in Drainage Meeting dated September 11, 2019, however the original Pay Estimate No. 1 for Gehrke, Inc. for the amount of \$184,982.40 was not motioned for approval. Requesting review and motion for approval for payment, it is included in today's Claims for Payment.

Motion by McClellan to approve DD 122 - WO 176 Pay Estimate No 1 for Gehrke, Inc. Second by Granzow. All ayes. Motion carried.

4.II. Discuss W Possible Action - Wind Turbine Ordinance / Drainage Utility Permit

Wind Turbine Ordinance / Drainage Utility Permit - Smith state that she had received feedback on the postcards that were sent out to landowners in Private Trustee Districts regarding the Supervisors review of wind turbine ordinance / drainage utility permit language. The postcard requested landowner feedback regarding what requirements they would like to see included in that language.

Smith received feedback in the form of many phone calls from landowners and some written feedback from the Private Trustees. Many of the callers had town parcels and were surprised that they received the postcards, but most expressed thanks to the Trustees for their interest in protecting the drainage facilities and in requesting landowner feedback.

Many of the callers expressed that they did not want additional risk to the drainage facilities, there were concerns noted that the WEC's would need to follow existing rules. One caller stated he had previously signed a wind turbine easement, which has since expired, and that he would not be renewing or signing any new easements in light of the risk to district tile, he noted he was not opposed to new turbines as long as the WEC's actually follow the current requirements.

The majority of the callers were concerned about the potential long term costs associated with tile damage and repairs, many stated that language should be strong enough to ensure the costs for repairs required due to the construction or maintenance of those wind turbines be born by the turbine companies, and not the landowners. Concerns were raised that any damage done to tile may be a long term issue, that appears or develops over many years, and may affect farm costs in the way of crop damages, flooded fields, and district repair costs.

DD 4 Trustees stated they had no concerns as long as the wind turbines follow the permitting process rules.

DD 98 Trustees communicated that they are against the construction of any new wind turbines in Hardin County.

DD 18 Trustees communicated that it is important that any drainage problems detected from any wind turbine construction be addressed as soon as possible, regardless of whether or not tile was located prior to construction.

DD 39 Trustees communicated they would like to see language that requires supervision/observation during construction to protect drainage facilities.

Several callers stated they would reach out to the Supervisors directly. Smith directed callers to call back if they need more information, Smith shared contact information with callers for their Private Trustees and encouraged them to reach out to them or the Supervisors to provide feedback.

Granzow stated that he would like to gather feedback directly from the Private Trustees and would like their input as the County looks at crafting this ordinance.

Motion by Granzow to schedule meeting with Private Trustees for February 19, 2020 at 12:30 PM, and to direct Smith to notify Private Trustees by mail and request they attend the meeting. Second by McClellan. All ayes. Motion carried.

5. DD 122 & DD 8 Lat 2 Warranty Review - Discuss W Possible Action

DD 122 & DD 8 Lat 2 Warranty Review - There was a warranty review reminder on the Drainage Calendar in minutes dated 6-27-2018 to look at the warranty at one and a half years out, it had been on the agenda on January 8, 2020 but was tabled at that meeting. No landowners were noted in previous minutes, that they would report back with any concerns. Smith spoke with contractor Cole Excavating, and they report no feedback at all on this project from landowners.

Granzow stated we should send a postcard to landowners to request feedback on if they have experienced any issues with the project. McClellan stated she would like to see a deadline for reply by May 1, 20 so that the landowners have had some time to get in the field and work the land, and see if there are any issues. Granzow stated any issues need to be reported to the contractor before the warranty expires, and that the issues do not need to be repaired by that 2 year mark but they do need to be reported by the 2 year date.

McClellan motioned to direct Smith to send a mailing to landowners affected by this tile repair, requesting landowner feedback on tile function/flow to the Trustees, with feedback due to the Trustees no later May 1, 2020, and to include map information of the repair. Granzow seconded. All ayes. Motion carried.

6. DD 143 - WO167 - Discuss W Possible Action - Surveyor's Report & Engineer's Supplement Report

DD 143-WO 167 - The Trustees requested CGA to do a Surveyor's Report to determine the right of way through Radcliffe along Ionia Ave., and also a supplemental report with repair options for the tile that runs along Ionia Ave.

It was discussed where and when a Public Hearing should be held to discuss the Reports and Repair Options. Repair options range in cost from \$270,000 to \$455,000 along Ionia Ave. There are tree roots in the tile, tile is anywhere from 1/4 to 3/4 full of tree roots, and a landowner has previously expressed concerns about the tree roots at several meetings.

Location options in Radcliffe for the public hearing were discussed. McClellan motioned to direct Smith to reach out to Radcliffe Mayor Taylor Roll to investigate available locations, dates and times for the Public Hearing and report back to the Trustees at the next meeting. Granzow seconded. All ayes. Motion carried.

7. DD 124 -Discuss W Possible Action - Utility Permit 2018-14 Crossing Summary

DD 124 - Utility Permit 2018-14 Crossing Summary - This was for a new home constructed off HWY D41, when Midland went out there last year, they found the tile that was at the toe, and they assumed it was district tile. Midland crossed it and followed up on the permit properly. At that time, Midland installed a conduit for Heart of Iowa. Heart of Iowa applied for a utility permit to utilize the conduit installed by Midland.

It was discovered in investigation by contractor Adam Seward, that this tile was a dead tile, and the actual tile was located farther back. Heart of Iowa crossed the tile that was thought to be live, they did not injure the tile, but it turns out that was the dead tile. Heart of Iowa did not end up crossing a district facility at all. Gallentine asked the Supervisors how they would like him to bill his time for this utility permit. Granzow replied that it should be billed to the Drainage District since the dead tile was not crushed or noted as dead tile by the District.

Motion by McClellan to have CGA bill the Drainage District 124 for the expense. Second by Granzow. All ayes. Motion carried.

8. DD 56 - W03- Update On Reclassification Report Status

DD 56 - WO 3 - Smith had two landowners reach out wanting to know the status of the DD 56 reclassification report. Gallentine provided an update: Not quite a year ago, it was discussed about splitting the district into 2 and lowering the main a couple feet. CGA has the bulk of the reclassification work done, CGA will need to meet with the other Commissioners, and should have it wrapped up within the next couple of weeks. CGA will have it to the Trustees then, so that a public hearing can be scheduled.

Landowner Greg Larson asked if anyone had ever discussed with the landowners to the north of DD 56 proposed repair, if they would at all be interested in having the main tile route come across their land to a different drainage ditch for the proposed shortcut to the drainage ditch. Gallentine stated he had not communicated with those landowners, as he has been preparing the reclassification report.

Granzow stated that the reclassification report was ordered before the repairs were to be considered or work was to be done. Gallentine stated that if the district splits, both new districts will receive some benefit from it, and there would be costs to both halves if the project were to proceed. Then once estimated costs are known and if the project would still be desirable, the Trustees would then talk to the landowners about acquiring an easement, this has not been done yet at this time.

9. DD 9 - Discuss W/ Possible Action - Crop Damage Claim

DD 9 - Should have been noted as DD 25- A claim for crop damages has been submitted by Jason Martin for work done in DD 25. Motion by McClellan to acknowledge receipt of claim for crop damages from Jason Martin and to have CGA verify acres of damage submitted. Second by Granzow. All ayes. Motion carried.

10. Other Business

DD 25 - Gallentine updated that he has been emailing the railroad every two weeks for an update on the amended crossing permit and has received no updates in reply from the railroad. Gallentine asked if the Trustees wanted to involve legal. Granzow directed Smith to add this to next week's Drainage Meeting agenda.

Smith stated that the canvass of 2020 Drainage Elections is ready and will be added to next week's agenda for review/approval.

11. Adjourn Meeting

Motion by McClellan to adjourn. Second by Granzow. All ayes. Motion carried.



**Public Hearing on Engineer's Report on Repairs to Main Tiles  
Drainage District 86, Hardin County  
January 22, 2020 at 11:00 AM  
Hardin County Courthouse, Lower Level Conference Room**

1/22/2020 - Minutes

1. Open Meeting

Hardin County Drainage Districts Board of Trustees Chairperson, Lance Granzow opened the hearing. Also present were Trustee Renee McClellan; Landowner Greg Larson; Lee Gallentine of Clapsaddle Garber Associates; and Drainage Clerk Denise Smith.

2. Approve Agenda

McClellan moved, Granzow seconded to approve the agenda as presented. All ayes. Motion carried.

3. Introductions/Attendance

Introductions were made and attendance verified.

4. Open Public Hearing

Granzow opened the hearing.

5. Verify Publication

Smith verified the notice of publication as being published in the Times Citizen on Wednesday, January 1, 2020.

6. Explanation Of Project

Gallentine explained the project as detailed in the Engineer's Report dated December 3, 2019. Drainage has slowed and now stopped. Gallentine stated that this district's investigation showed a history of tree roots invading the tile, especially in areas that have not been actively maintained by private landowners, notably in the railroad right of way. Water is coming up out of the intake, traveling over land, going through a railroad culvert, then back over land into the tile and then it leaves through the outlet. The Engineer's Report details repair options of:

1) Partial Tree Removal, Root Cutting, and Tile Lining for an estimated cost of \$93,940.63

OR

2) Full Tree Removal and Partial Tile Replacement for an estimated cost of \$93,006.25.

7. Written Or Verbal Comments/Discussion

Granzow requested any written or verbal comments from landowners be presented.

Smith reported written communication from landowners James Heddens and Randy Jennings. Smith read the communication as written from James Heddens, dated Monday, January 20, 2020 into the minutes:

I as trustee of James D Heddens trust has approx 50 some acres in this district. ( ALL SOUTH OF SOUTHERN MOST TRACKS) I do not know all of the facts but hopefully you people voting do, but consider these things;

I have no tile on my agric property, there,fore only land sloping west would drain little if any to my west flat land and sloped land drains into my flat land being all I south of southern most tracks. If I wanted to tile would likely NOT be possible for no assess to this dist. INVOLVED tile.

This big drain tile has been A recurrent expensive problem since doing approx 1915, and likely will continual to be. All HAD big expense on 2017, about \$3K hit just for me.

This cost is mostly covered via of agric land and a real hit, for income not hat hi on agric rents.

If trees removed with a high cost, likely they will grow back for apparently the owner has not problem with in past, so why so in the future, so will not solve long term problem. If so doing tree removal Dist/county should HAVE

agreement with tree land owner that they/he will keep tree less in the future. I do not know if any pipe is root resistant to trees in a dry year.

Consider return tiled area to to creek like structure, as it likely was in prior placement of drainage tile, many drainage areas in IA and USA poorly thought out in early 1900s.

With the above also consider returning lowest area to wet lands, crp, usda quite high rental return on that, higher than crop land, but can not be taken out once in.

Whatever is done, for me leave it or creek it, MAKE THE solution more permanent, its really been a bad deal FOR taxpayers and owners; reviewing its history.

There seems to be some unfairness in this for the greatest benefactors are in low farmland between tracks between lake areas etc but seems they pay same rate per acre assessment, but if always precedents at way in IA, I will accept it.

J D Heddens

Smith also read the communication as written from Randy Jennings, dated Tuesday, January 22, 2020 into the minutes:

Drainage District 86 Trustees

RE: Proposed Improvements

Friends,

I am the Trustee of the Estelene M. Jennings Revocable Trust that owns 20.34 acres located in Drainage District 86.

I am, hereby, objecting to the proposed improvements to the district tile because I do not believe that the resulting assessment will be equitably divided amongst the property owners. I am basing this on the latest assessment received in May of 2018. The total assessment for that project was \$58,750 on 715 total acres. That resulted in the Trust paying 18% of the total assessment when it owns 2.9% of the acres.

I understand this is a very difficult district to deal with. It runs in and out of the city limits. It includes a large industrial plant and it includes small in-town lots who utilize city storm drainage, along with other unique parcels. The standard classification system may not work in this district because of the unique nature of various parcels.

I believe the method of assessing the individual parcels in this district needs to be examined and needs to be restructured to be more equitable. The standard classification system may not work in the district because of the unique nature of various parcels.

Thank you for your consideration.

Sincerely,

Randy Jennings

Trustee, Estelene M. Jennings Revocable Trust

Smith stated she had received no other landowner feedback. Granzow stated that it sounds like the landowners are requesting a reclassification by different standards. Granzow asked when it was last reclassified, Smith will look that up and let the Trustees know when it was last reclassified. Smith stated that when looking at the estimated assessments, Jennings would pay the largest share of the cost for this project, whether this project would proceed at the partial tree removal, root cutting and tile lining or the the full tree removal and partial tile replacement. Jennings would still be paying right around \$15,000 based on percent of benefit for either option. Gallentine stated that the parcels have been slowly developed over years. Granzow stated that the classification could be correct if this were very swampy land.

Gallentine spoke with landowner George Ioger, Gallentine explained the project and Ioger indicated he had a small piece of land on the south end of the district. Ioger stated he is far enough away from the issue it won't impact him,



but to do whatever needs to be done. Granzow asked if the owner of the trees had contacted Smith, Smith stated that they had not contacted the Drainage Clerk. Granzow stated it is the Trustee's responsibility under Iowa Code to keep the trees out of a drainage tile, but it is also the responsibility of any person in the district to contact the Trustees if there are any issues. It is not just the landowners responsibility, it is the District's responsibility to look at the regrowth of trees as it happens, that trees should be taken out before they become a large problem. It is frustrating when the District has to come in and clean up the trees when the drainage has stopped.

Granzow stated a letter should be sent to landowners outlining those responsibilities that tree growth and regrowth should be addressed before it becomes a larger problem. Granzow asked if we should entertain the option of returning this area to an open ditch. Gallentine stated that would be a possibility but cautioned that any time there is an open ditch with nearby surrounding trees and a lack of maintenance it may invite beaver issues, and wondered if creating an open ditch constitutes taking a right of way. It was discussed that where the tile is plugged that this would be the railroads land. McClellan stated we would have to work with the railroad to get trees removed, regardless of if we change things.

Gallentine also stated there are trees all the way from Dago Lake all the way to the outlet that appear to be within 50' of the District tile, and those need to be removed also. Those would be multiple landowners trees that would need to be removed. Granzow asked who was being impeded by drainage. Gallentine stated this was generated because there was a tree removal requested for one tree along Monarch Pond, and it was stated then that all trees should be removed.

Gallentine stated that there could be access structures added to jet clean out the tile, line the existing tile, and that assumes that the tile is in good enough shape to line it. The other option is to go in and take out all the trees within 50' of the tile and replace that section of tile. It was noted that both options are similar in cost. Gallentine noted that if you line the tile with gasketed joints, you have to be careful as roots can go through the gasketed joints. Gallentine stated that there still needs to be some watching for tree regrowth.

Granzow noted we had no complaints about drainage in the area, despite the fact that it is not flowing, the only complaints were that the trees needed to be addressed, and has a hard time spending the money if there are no landowner complaints. Gallentine stated that he is aware that this is a large cost for either option.

McClellan asked if this was the only area with tree problems, or if this was just the beginning of a larger issue within the district. The trees range from the area near town all the way to Dago Lake. Gallentine noted that the reason Jennings portion was high was because the main goes right through his property along with a couple laterals. It was discussed that this was all brought about when the Monarch pond level was high, and washed a gully through the area, initially a couple trees were removed, and there were still problems with the tile flow, a couple more trees were removed and the issues remained.

Granzow stated it would make sense to look at a reclassification unless it has been done recently, and it would also make sense to look at making it an open ditch as requested by Heddens, as it may be easier to observe any issue with drainage in an open ditch. Gallentine stated he could draw up an option for an open ditch if the Trustees would like to entertain that as an option.

8. Close Public Hearing

McClellan moved to close the public hearing. Granzow seconded. All ayes. Motion carried.

9. Possible Action

Possible action - Granzow motioned CGA to come back with an open ditch option as suggested by landowner James Heddens, and for Drainage Clerk Smith to come back with what classification they currently have and how old it is. All ayes. Motion carried.

10. Other Business

11. Adjourn Meeting

Motion by McClellan to recess Public Hearing to February 5, 2020 at the Regular Drainage Meeting scheduled for 9:30 AM. Second by Granzow. All ayes. Motion carried.



# Hardin County

Drainage Claims with Pay Date of 1/31/2020

DD 22 -WO 176&192 Pay Estimate No. 5

Gehrke Inc.

101,760.79

<b>Total Regular Payables:</b>	0.00
<b>Total Stamped Warrants:</b>	101,760.79

Project: Main Tile Repairs to Drainage District 22 Facilities	CGA PN: 8712	Change Order # 7
Owner: Hardin County, Iowa	Contract Date: August 16 <sup>th</sup> , 2018	
Contractor: Gehrke, Inc.	Contract Amount: \$549,332.50	

**List below or on a separate sheet each change proposed in this order describing briefly and giving reasons for the changes. Attach copy of supplemental agreement covering any contract amendment.**

PROPOSED CHANGES	Amount Increase or Decrease
<p>The 30-inch tile replacement in the front yard of Travis Ryerson impacted the existing septic system leach field. Gehrke shall perform repair to the septic system in coordination and with approval of the County Environmental Health Department.</p> <p>Initial Estimate of Repair: Gehrke, Inc to repair septic lines on the Ryerson property with an estimated cost of \$3,680. The Contractor will investigate the laterals to determine consistent spacing to reinstall the two laterals that were excavated out; it is estimated that each lateral will be 60 feet or less and will be bed in 1-inch clean rock. Hardin County Environmental Health Department also has an Onsite Wastewater Treatment System Application w/ \$250 fee. Drainage District Trustees authorized up to \$4,000 at their December 4<sup>th</sup>, 2019 meeting.</p> <p>During construction and further investigation into the laterals that were impacted, we coordinated with Jessica Sheridan to perform the required repair, which was less than initially estimated. Total cost of the repair</p> <ul style="list-style-type: none"> <li>• Add Item CO2 – Septic Repair (Lump Sum)</li> </ul>	+\$1,650.00
Net Change This Order (+ or -)	+ \$ 1,650.00
Net Changes Previous Orders (#1, #2, #3, #4, #5, #6):	- \$ 15,501.00
Total Net Changes to Date:	- \$ 13,851.00

Total Contract Time (Days)	Days Increased	Days Decreased	Total Completion: 12/01/2019
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**If and when approved, I hereby accept this order both as to work to be performed and prices on which payment shall be based.**

Contractor: Gehrke, Inc.		Date: 1-22-2020	
By:	Title: V.P.		
Recommended	By:  Heather Thomas, PE	Title: Project Manager	Date: 01/22/2020
Approved	By:	Title:	Date:

Project: Main Tile Repairs to Drainage District 22 Facilities	CGA PN: 8712	Change Order # 8
Owner: Hardin County, Iowa	Contract Date: August 16 <sup>th</sup> , 2018	
Contractor: Gehrke, Inc.	Contract Amount: \$549,332.50	

**List below or on a separate sheet each change proposed in this order describing briefly and giving reasons for the changes. Attach copy of supplemental agreement covering any contract amendment.**

PROPOSED CHANGES	Amount Increase or Decrease
<p>Additional tile replacement necessary due to existing private tile being located above the excavation for a portion of the 30-inch tile replacement. Unit price includes mobilization, private tile connection to the main, and providing/installing the tile.</p> <p>Trustees authorized up to 400 LF of private tile replacement at \$9/LF at the December 16, 2019 meeting. Actual installed quantity was 350 LF.</p> <ul style="list-style-type: none"> <li>• Add Item CO3 – Private Tile Replacement, 6” Dual Wall Tile Add 350 LF @ \$9.00 / LF</li> </ul>	+\$3,150.00
Net Change This Order (+ or -)	+ \$ 3,150.00
Net Changes Previous Orders (#1, #2, #3, #4, #5, #6, #7):	- \$ 13,851.00
Total Net Changes to Date:	- \$ 10,701.00

Total Contract Time (Days)	Days Increased	Days Decreased	Total Completion: 12/01/2019
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**If and when approved, I hereby accept this order both as to work to be performed and prices on which payment shall be based.**

Contractor: Gehrke, Inc.		Date: 1-22-2020	
By:	Title: V.P.		
Recommended	By:	Heather Thomas, PE	Title: Project Manager
Approved	By:	Title:	Date: 01/22/2020

Project: Main Tile Repairs to Drainage District 22 Facilities	CGA PN: 8712	Change Order # 9
Owner: Hardin County, Iowa	Contract Date: August 16 <sup>th</sup> , 2018	
Contractor: Gehrke, Inc.	Contract Amount: \$549,332.50	

**List below or on a separate sheet each change proposed in this order describing briefly and giving reasons for the changes. Attach copy of supplemental agreement covering any contract amendment.**

PROPOSED CHANGES	Amount Increase or Decrease
<p>Beginning on Saturday, November 16, 2019, the Contractor got into an area where the blue clay at the bottom of the trench for the 30-inch tile replacement was disappearing and what remained was a very soupy sand that was not able to provide adequate support for the concrete tile. The Contractor requested authorization to put a layer of larger rock (3") approximately 6-inches along the bottom of the trench to provide an adequate bottom for pipe support at a cost of \$24 / ton. Trustees authorized its use as needed and verified need/placement by CGA.</p> <p>Approximately 12 Tons were needed and placed on November 18<sup>th</sup> and 3 Tons were needed and placed on November 19<sup>th</sup>.</p> <ul style="list-style-type: none"> <li>Add Item CO4 – 3-inch Bedding Rock Add 15 Tons @ \$24.00 / Ton</li> </ul>	+\$ 360.00
Net Change This Order (+ or -)	+ \$ 360.00
Net Changes Previous Orders (#1, #2, #3, #4, #5, #6, #7, #8):	- \$ 10,701.00
Total Net Changes to Date:	- \$ 10,341.00

Total Contract Time (Days)	Days Increased	Days Decreased	Total Completion: 12/01/2019
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**If and when approved, I hereby accept this order both as to work to be performed and prices on which payment shall be based.**

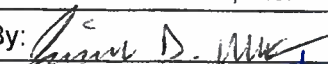

Contractor: Gehrke, Inc.		Date: 1-22-2020	
By:	Title: V.P.		
Recommended	By:	Title: Project Manager	Date: 01/22/2020
Approved	By:	Title:	Date:

Project: Main Tile Repairs to Drainage District 22 Facilities	CGA PN: 8712	Change Order # 10
Owner: Hardin County, Iowa	Contract Date: August 16 <sup>th</sup> , 2018	
Contractor: Gehrke, Inc.	Contract Amount: \$549,332.50	

**List below or on a separate sheet each change proposed in this order describing briefly and giving reasons for the changes. Attach copy of supplemental agreement covering any contract amendment.**

PROPOSED CHANGES	Amount Increase or Decrease		
The original contract, as bid, was largely completed (with the exception of seeding, clean-up, and other miscellaneous work that was unable to completed with the winter weather/frozen ground conditions) as of January 13 <sup>th</sup> , 2020. The quantities installed to date and the anticipated work remaining for the Spring was compiled to determine the projected final quantities. The contract quantities are hereby adjusted as follows:			
<ul style="list-style-type: none"> <li>• Increase Item 1A – 30" Ø RCP Tile, Perforated - For Tile Replacement <ul style="list-style-type: none"> <li>○ 68.0 LF @ \$53.00 / LF</li> </ul> </li> <li>• Decrease Item 2A – 30" Ø RCP Tile Road Crossing, Perforated - For Tile Replacement <ul style="list-style-type: none"> <li>○ 30.0 LF @ \$46.00 / LF</li> </ul> </li> <li>• Decrease Item 3A – CCTV Inspection of Roadway Crossing Tile - For Tile Replacement <ul style="list-style-type: none"> <li>○ 310.0 LF @ \$3.00 / LF</li> </ul> </li> <li>• Decrease Item 4A – Connection to Road Crossing Tile to Remain - For Tile Replacement <ul style="list-style-type: none"> <li>○ 10 Each @ \$400.00 / Each</li> </ul> </li> <li>• Increase Item 5A – Removal and Disposal of Supplemental Tile - For Tile Replacement <ul style="list-style-type: none"> <li>○ 38.0 LF @ \$6.50 / LF</li> </ul> </li> <li>• Decrease Item 7A – 18" Ø RCP Tile, Perforated - For Spot Repairs <ul style="list-style-type: none"> <li>○ 45.0 LF @ \$67.00 / LF</li> </ul> </li> <li>• Decrease Item 11A – Type 2 Concrete Collar - For Spot Repairs <ul style="list-style-type: none"> <li>○ 2 Each @ \$358.00 / Each</li> </ul> </li> <li>• Increase Item 13A – Private Tile Connection <ul style="list-style-type: none"> <li>○ 11 Each @ \$500.00 / Each</li> </ul> </li> <li>• Decrease Item 400 – 18" Ø RCP Tile with Rock Bedding, Perforated - For Spot Repairs <ul style="list-style-type: none"> <li>○ 18.0 LF @ \$67.00 / LF</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ \$ 3,604.00</li> <li>- \$ 1,380.00</li> <li>- \$ 930.00</li> <li>- \$ 4,000.00</li> <li>+ \$ 247.00</li> <li>- \$ 3,015.00</li> <li>- \$ 716.00</li> <li>+ \$ 5,500.00</li> <li>- \$ 1,206.00</li> </ul>		
Net Change This Order (+ or -)	- \$ 1,896.00		
Net Changes Previous Orders (#1, #2, #3, #4, #5, #6, #7, #8, #9):	- \$ 10,341.00		
Total Net Changes to Date:	- \$ 12,237.00		
Total Contract Time (Days)	Days Increased	Days Decreased	Total Completion: 12/01/2019

**If and when approved, I hereby accept this order both as to work to be performed and prices on which payment shall be based.**

Contractor: Gehrke, Inc.		Date: 1-22-2020	
By: 	Title: V.P.		
Recommended	By:  Heather Thomas, PE	Title: Project Manager	Date: 01/22/2020
Approved	By:	Title:	Date:

Project: Main Tile Repairs to Drainage District 22 Facilities	CGA PN: 8712	Change Order # 11
Owner: Hardin County, Iowa	Contract Date: August 16 <sup>th</sup> , 2018	
Contractor: Gehrke, Inc.	Contract Amount: \$549,332.50	

**List below or on a separate sheet each change proposed in this order describing briefly and giving reasons for the changes. Attach copy of supplemental agreement covering any contract amendment.**

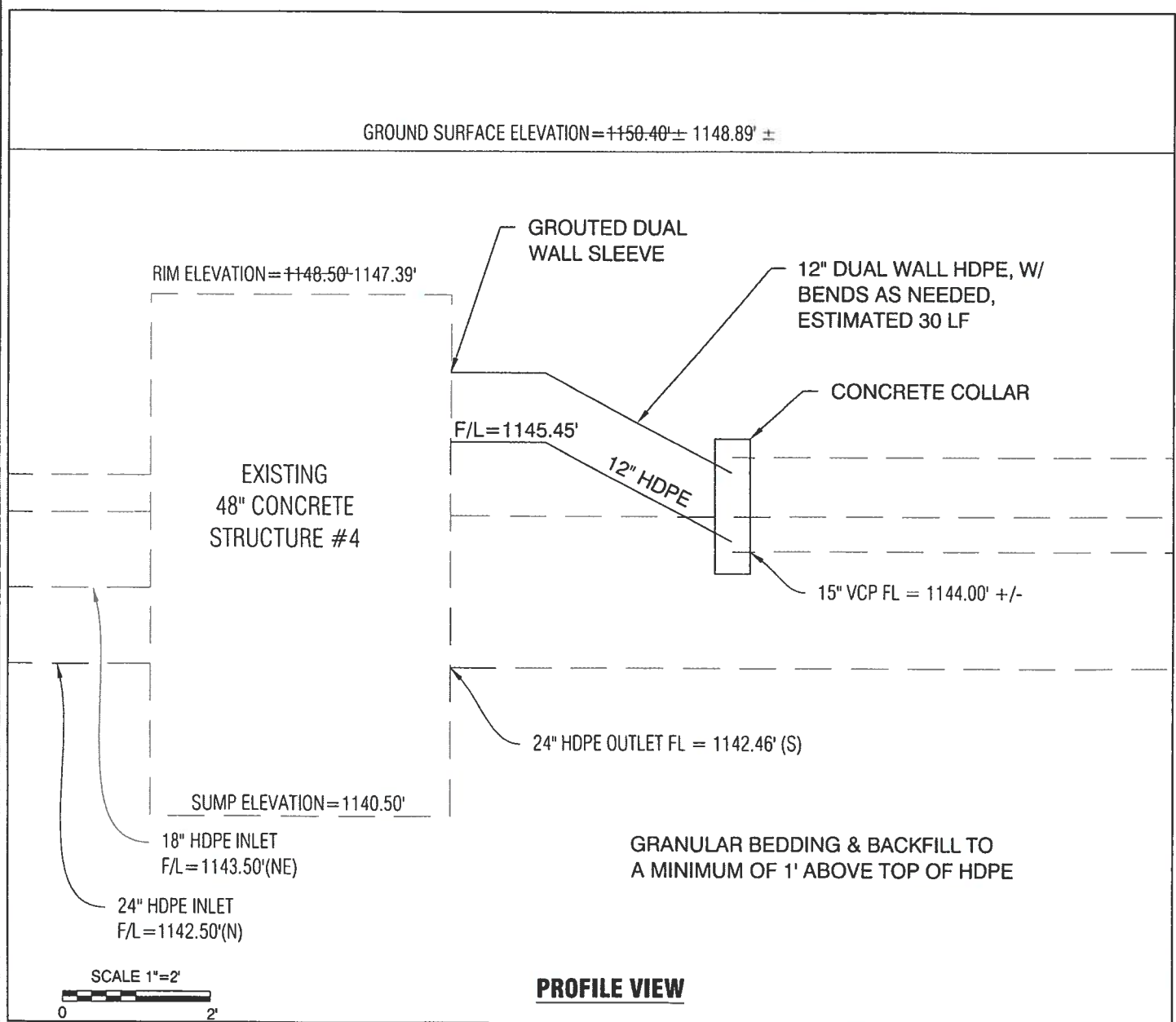
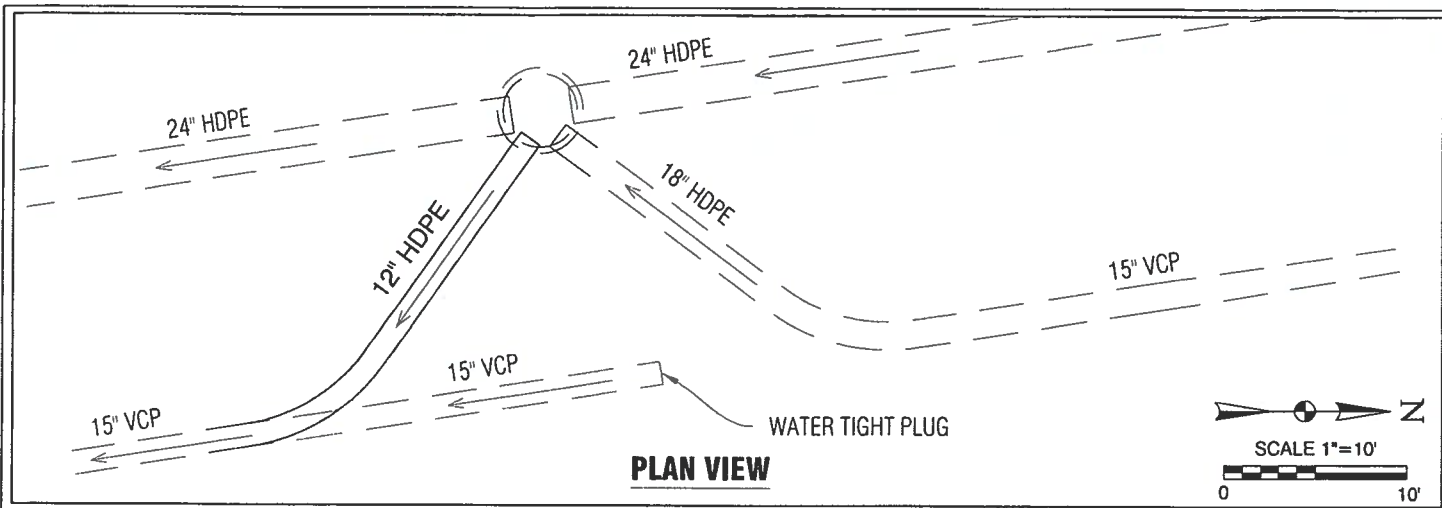
PROPOSED CHANGES			Amount Increase or Decrease
<p>The original contract, as bid, was largely completed (with the exception of seeding, clean-up, and other miscellaneous work) as of January 13<sup>th</sup>, 2020. The delays throughout 2019 were a result of the abnormally wet conditions experienced in the first half of 2019. Weather and field conditions are not suitable for final clean-up, finish grading, and seeding in January; therefore, the contract shall be extended to May 31<sup>st</sup>, 2020 to complete this work.</p> <p>Approximately \$6,950 of work remains as part of the original contract as amended with Change Orders #1-#10. Therefore, the Trustees agree to release a portion of the retainage in the amount equal to a reduction from 10% to 2% of the completed work.</p> <p>The 2 Year Maintenance Bond shall become effective/active at the completion of the remaining \$6,950 anticipated in Spring 2020.</p>			Extend Project Completion to May 31, 2020.
<p>During a Landowner Meeting held on December 16<sup>th</sup>, 2019, it was voted to add two overflow connections to the Contractor through change order. This work is as described in Change Order #12. Due to field conditions, this work is best done at dry periods with low flow. The Landowners agreed to a completion date of November 30, 2020 for this additional work. The Landowners also agreed for this work to be performed without CGA observation; however, CGA may provide staking at Gehrke's request.</p>			Establish Extra Work (CO #12) Completion to November 30, 2020
Net Change This Order (+ or -)			\$ 0.00
Net Changes Previous Orders (#1, #2, #3, #4, #5, #6, #7, #8, #9, #10):			- \$ 12,237.00
Total Net Changes to Date:			- \$ 12,237.00
Total Contract Time (Days) Completion: 12/01/2019	Days Increased 365 Days	Days Decreased	Total Completion: 11/30/2020
<b>If and when approved, I hereby accept this order both as to work to be performed and prices on which payment shall be based.</b>			
Contractor: Gehrke, Inc.			Date: 1-22-2020
By: <i>Grinn D. W...</i>		Title: V, P	
Recommended	By: <i>Heather Thomas</i> Heather Thomas, PE	Title: Project Manager	Date: 01/20/2020
Approved	By:	Title:	Date:

Project: Main Tile Repairs to Drainage District 22 Facilities	CGA PN: 8712	Change Order # 12
Owner: Hardin County, Iowa	Contract Date: August 16 <sup>th</sup> , 2018	
Contractor: Gehrke, Inc.	Contract Amount: \$549,332.50	

**List below or on a separate sheet each change proposed in this order describing briefly and giving reasons for the changes. Attach copy of supplemental agreement covering any contract amendment.**

PROPOSED CHANGES			Amount Increase or Decrease
Refer to attached exhibits for additional information. Note: Quantities below are estimates.			
<b><u>Overflow Connection @ Structure #4</u></b>			
11A) Increase 'Type 2 Concrete Collar – For Spot Repairs' – 2 Each			\$ 716.00
12A) Increase 'Connection to Existing Structure' – 1 Each			\$ 2,000.00
CO1) Increase 'Exploratory Excavation' – 1 HR			\$ 300.00
CO3) Add 12" Dia. Dual Wall HDPE Tile w/ Rock, Perforated – Est. 30 LF at \$241.00/LF			\$ 7,230.00
<b><u>Overflow Connection @ Structure #6</u></b>			
11A) Increase 'Type 2 Concrete Collar – For Spot Repairs' – 2 Each			\$ 716.00
12A) Increase 'Connection to Existing Structure' – 1 Each			\$ 2,000.00
CO1) Increase 'Exploratory Excavation' – 1 HR			\$ 300.00
CO3) Add 12" Dia. Dual Wall HDPE Tile w/ Rock, Perforated – Est. 30 LF at \$241.00/LF			\$ 7,230.00
Net Change This Order (+ or -)			+ \$ 20,492.00
Net Changes Previous Orders (#1, #2, #3, #4, #5, #6, #7, #8, #9, #10)			- \$ 12,237.00
Total Net Changes to Date:			+ \$ 8,255.00
Total Contract Time (Days)	Days Increased	Days Decreased	Total Completion: 11/30/2020
<b>If and when approved, I hereby accept this order both as to work to be performed and prices on which payment shall be based.</b>			
Contractor: Gehrke, Inc.			Date: 1-22-2020
By: <i>Jim D. Weger</i>		Title: V.P.	
Recommended	By: <i>Heather Thomas</i> Heather Thomas, PE	Title: Project Manager	Date: 01/22/2020
Approved	By:	Title:	Date:

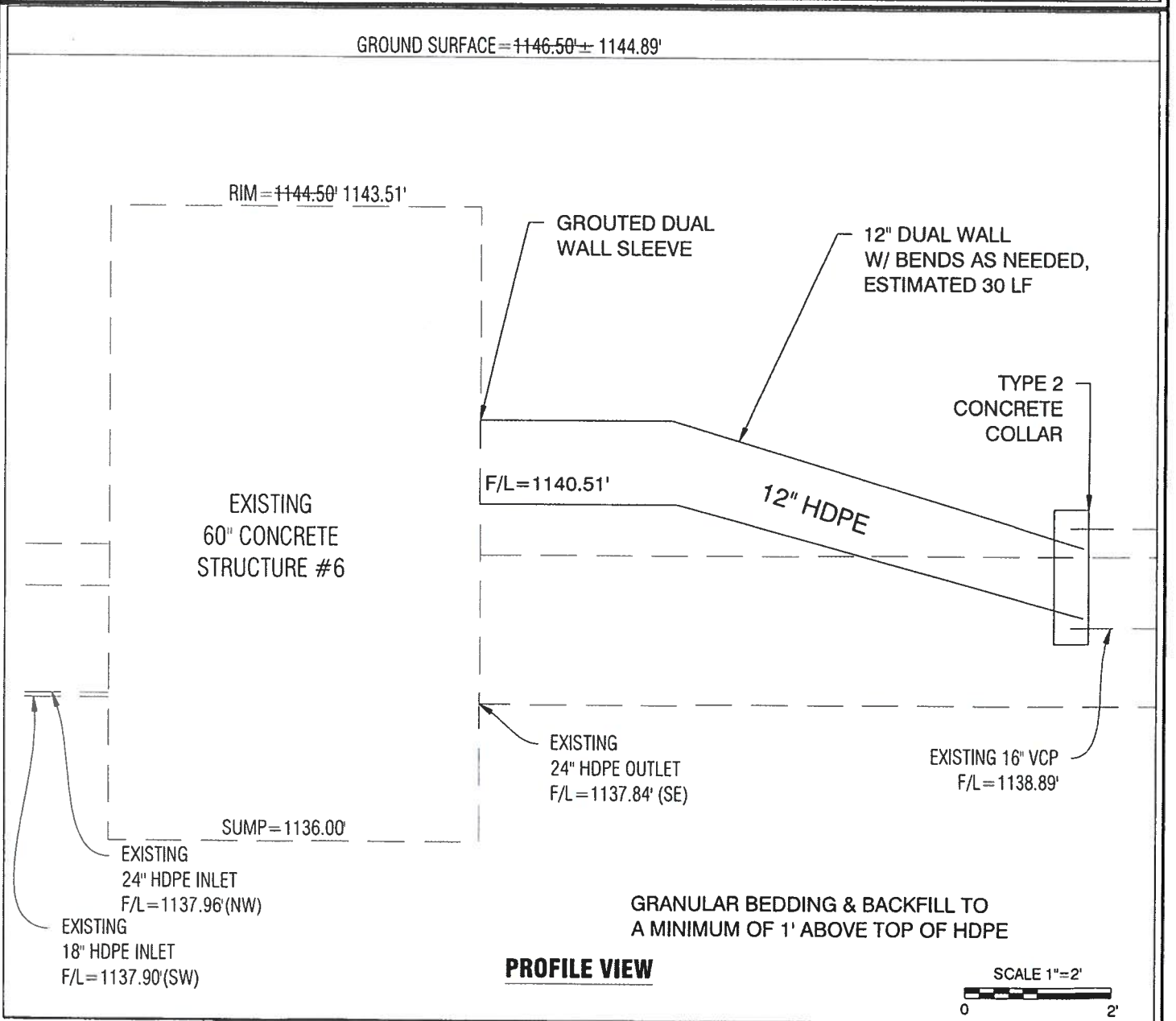
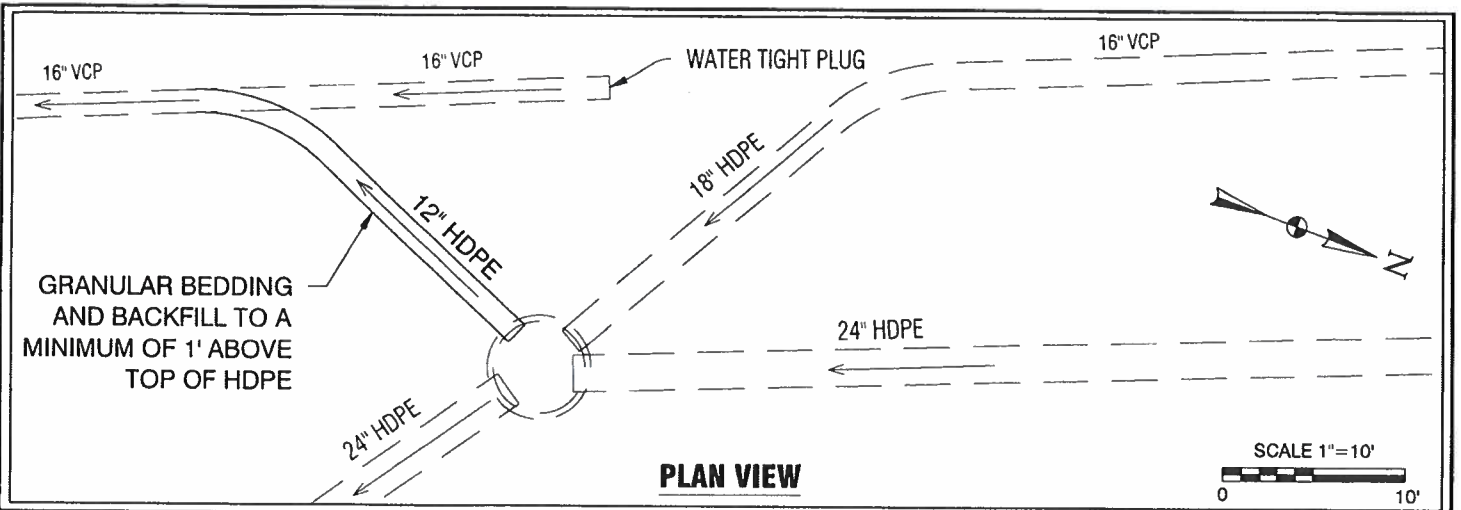




Clapsaddle-Garber Associates, Inc  
16 East Main Street  
Marshalltown, Iowa 50158  
Ph 641-752-6701  
www.cgaconsultants.com

**STRUCTURE #4**

N: 3,619,576  
E: 4,937,209



Clapsaddle-Garber Associates, Inc  
 16 East Main Street  
 Marshalltown, Iowa 50158  
 Ph 641-752-6701  
 www.cgaconsultants.com

**STRUCTURE #6**

N: 3,617,336  
 E: 4,935,891

Drainage District:

#22 – Hardin County, IA

Hardin County Work Order: WO00000276

CGA PN: 6532.4

Investigation Summary:

- Landowner in the NE¼ of Section 19 (T88N R22W) reported a sinkhole in his wetland area nearby where he believes Lateral 1 of DD22 to run.
- Visual observation discovered a sinkhole with two locations that appeared to be taking in soil in nearby proximity to each other. CGA probed the area with a 4' tile probe and was unable to hit/locate the tile line. The sinkhole is consistent with what we would expect to find with a tile line that has a wide joint or damaged tile and is taking soil from both sides of the tile.

Contractor Time and Materials (spent while CGA was on-site):

None recorded as only visual observation was performed.

Additional Actions Recommended:

We recommend this be spot repaired through the lottery process.





# Drainage Work Order Request For Repair Hardin County

Date: 10/21/2019

Work Order #: WO00000276

Drainage District: DDs\DD 22 (51045)

Sec-Twp-Rge: 19-88-22 Qtr Sec: NE1/4

Location/GIS: 88-22-19-400-002

Requested By: Randy Silvest

Contact Phone: (641) 640-0171

Contact Email: \_\_\_\_\_

Landowner (if different): \_\_\_\_\_

**Description:** DD 22 Lat 1 - Randy Silvest stopped in to report a sinkhole in his wetland area, directly north of his house. He reports the sinkhole is 6' to 8' across and 3' deep in center of wetland area, Lat 1 runs directly through this wetland where he reports the sinkhole. He reports the sinkhole is dry and was discovered while he was mowing this past week. He requests further investigation and repair this fall, and to be contacted by Engineer.

Repair labor, materials and equipment \_\_\_\_\_

Repaired By: \_\_\_\_\_ Date: \_\_\_\_\_

Please reference work order # and send statement for services to:  
Hardin County Auditor's Office  
Attn: Drainage Clerk  
1215 Edgington Ave, Suite 1  
Eldora, IA 50627  
Phone (641) 939-8111  
Fax (641) 939-8245

For Office Use Only

Approved: \_\_\_\_\_ Date: \_\_\_\_\_



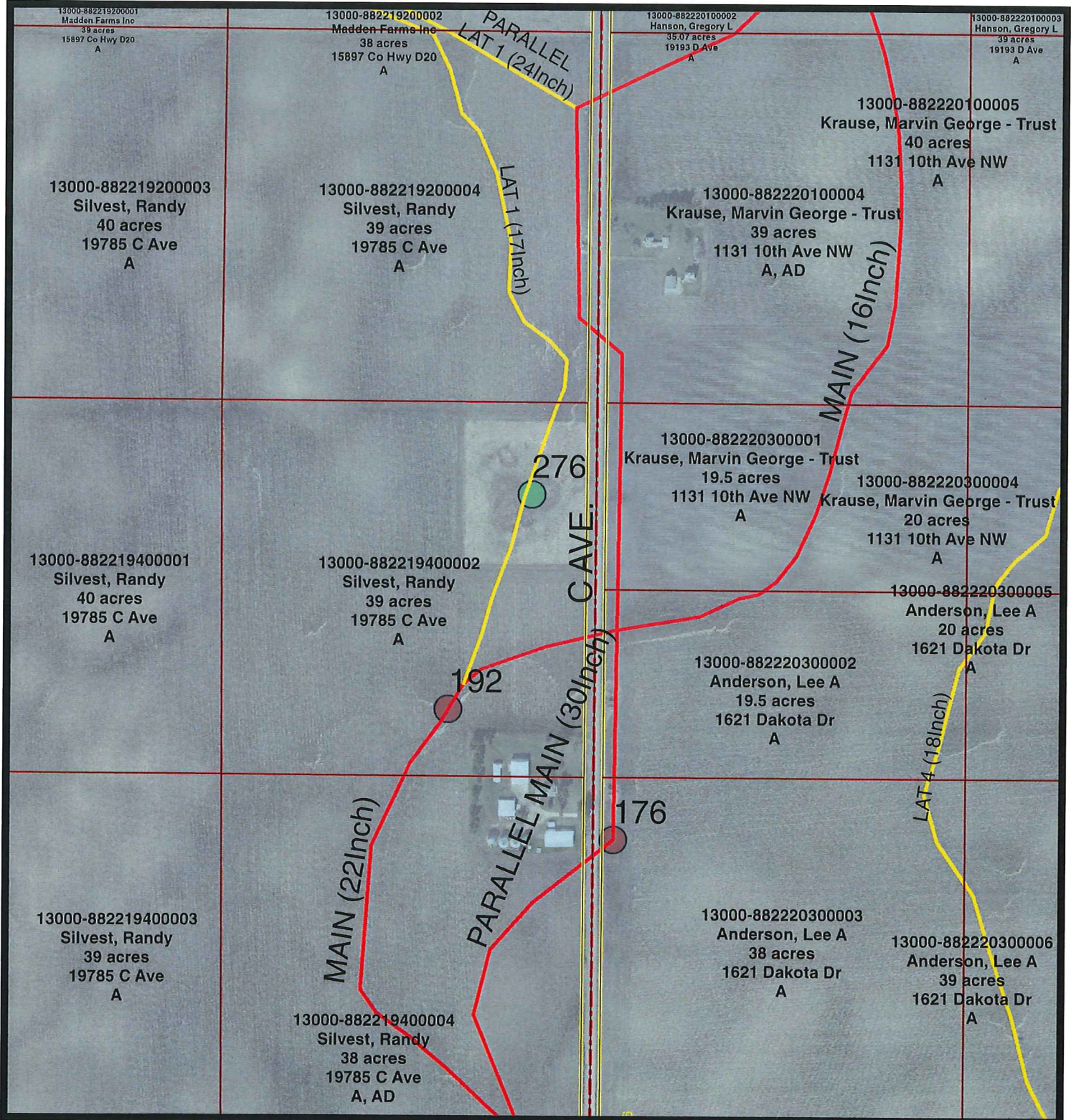
### Drainage Tiles

- Lateral
- Main
- Open Ditch
- Private Tile

# Hardin County Auditor's Office



Date: 10/21/2019

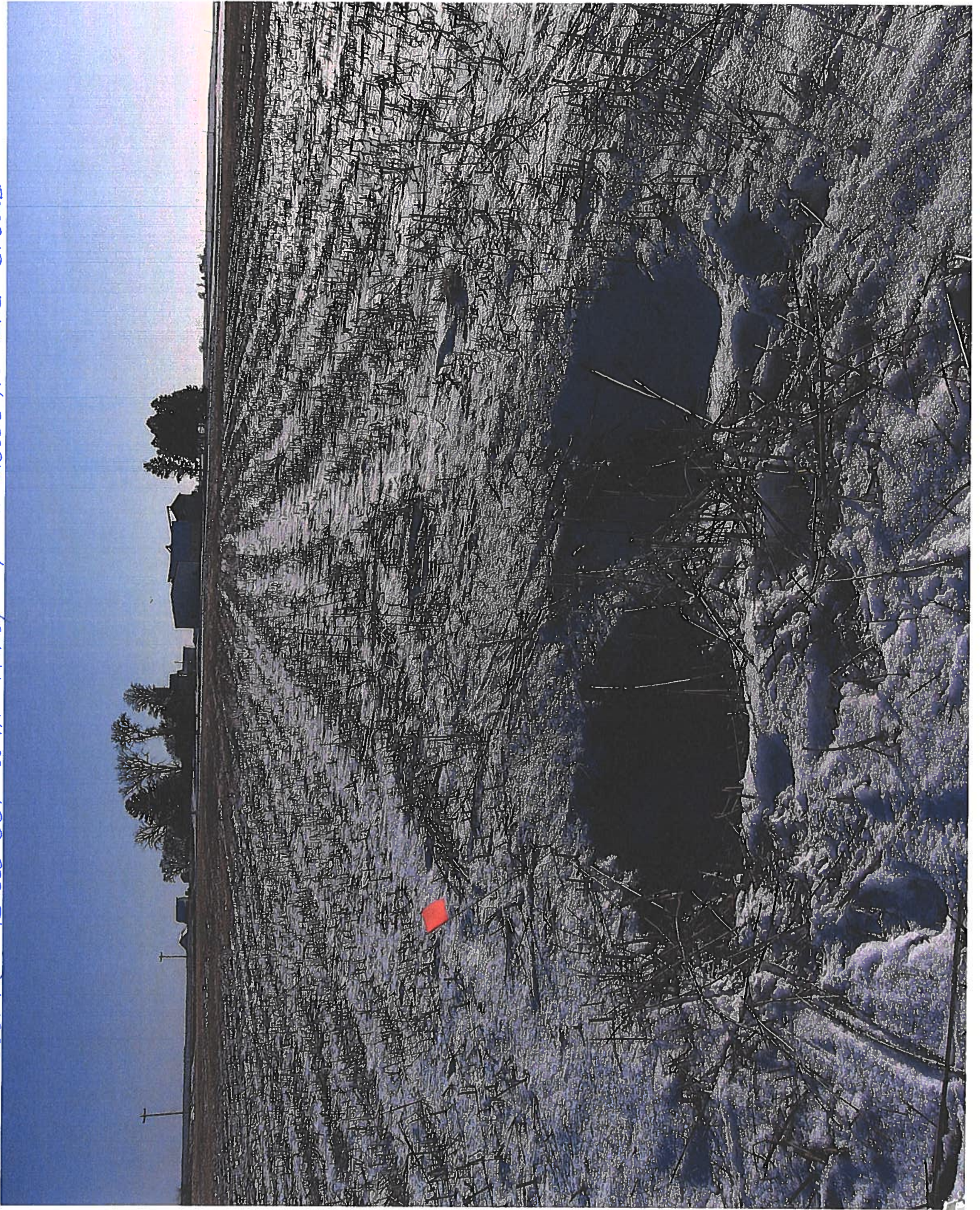


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# Inspector's Project Diary

Project: <u>6532.4</u>			
CGA PN:	Days Charged:	Report No.	Proj. Mgr. <input checked="" type="checkbox"/>
Contractor:		Date: <u>12/11/19</u>	
Superintendent:	Weather Conditions: <u>CLEAR, SNOW FRESH</u>	Precip.: <u>2"</u>	Temp. Hi: ° Temp. Low: °
INSPECTOR: Time Arrived: <u>3:00</u> Time Left: <u>3:15</u>		Contractor: Time Arrived: <del>3:00</del> Time Left:	
1. General Remarks and Work Accomplished:  <p style="margin-left: 40px;"><u>DRIVE UP TO MARKED BLOW-OUT IN CRP FIELD N. OF RANDY SYLVESTER HOUSE. FOUND DOUBLE BLOW-OUT, PROBABLY CAUSED BY WIDE JOINT IN TIE. PROBES DOWN 4' IN BOTH HOLES, DIDN'T HIT TIE. SHOT BLOW OUT #879 ON LAT 1, USE JOB #6532.3 DD22 REPAIR ASP, ACCESS @ NE CORNER OF FIELD ON "C" AVE.</u></p>			
2. Changes or Extra Work Ordered:			
3. Test Samples Taken:			
4. Visitors to Site:			
5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:			
6. Attachments (total sheets attached <u>0</u> ):			

LOOKING SOUTH (O) BLOW-OUT WITH RANDY -> LUREST HOUSE IN DARK GROUND





# Drainage Work Order Request For Repair

## Hardin County

Date 6/30/2017 Project # \_\_\_\_\_ Work Order # 189  
District # 34 Lateral Open Ditch Fund # 51058  
Township Concord Section 20 Twp 86 Rge 22 Qtr Sec SW1/4

Repair Requested By Craig Johnson  
Address GIS 862220300005 Phone (515) 290-9706

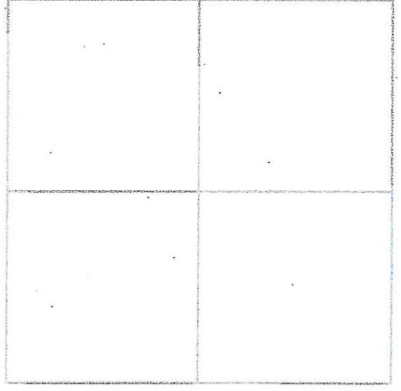
Landowner same  
Address \_\_\_\_\_ Phone \_\_\_\_\_

Request Taken By Tina Schlemme

Available for Repair Now?  Yes  No Date Available \_\_\_\_\_

Problem Description Blowout on Main 21" tile just north and west of ditch. There is also a wet area on the east side of the ditch, 1/2 way. (Can access area by windmill road and down waterway.)

*7-11-17 Per Tina → Add'l blowouts in same area.*



Repair labor, materials and equipment \_\_\_\_\_

Potential Wetlands?  Yes-Repair existing tile only  No-Repair and maintain tile

Repaired By: \_\_\_\_\_

Date: \_\_\_\_\_

Please send statement for services to:  
Hardin County Auditor's Office  
Attn: Tina Schlemme  
1215 Edgington Ave, Suite 1  
Eldora, IA 50627  
Phone (641) 939-8111  
Fax (641) 939-8245

For Office Use Only

Approved: \_\_\_\_\_ Date: \_\_\_\_\_

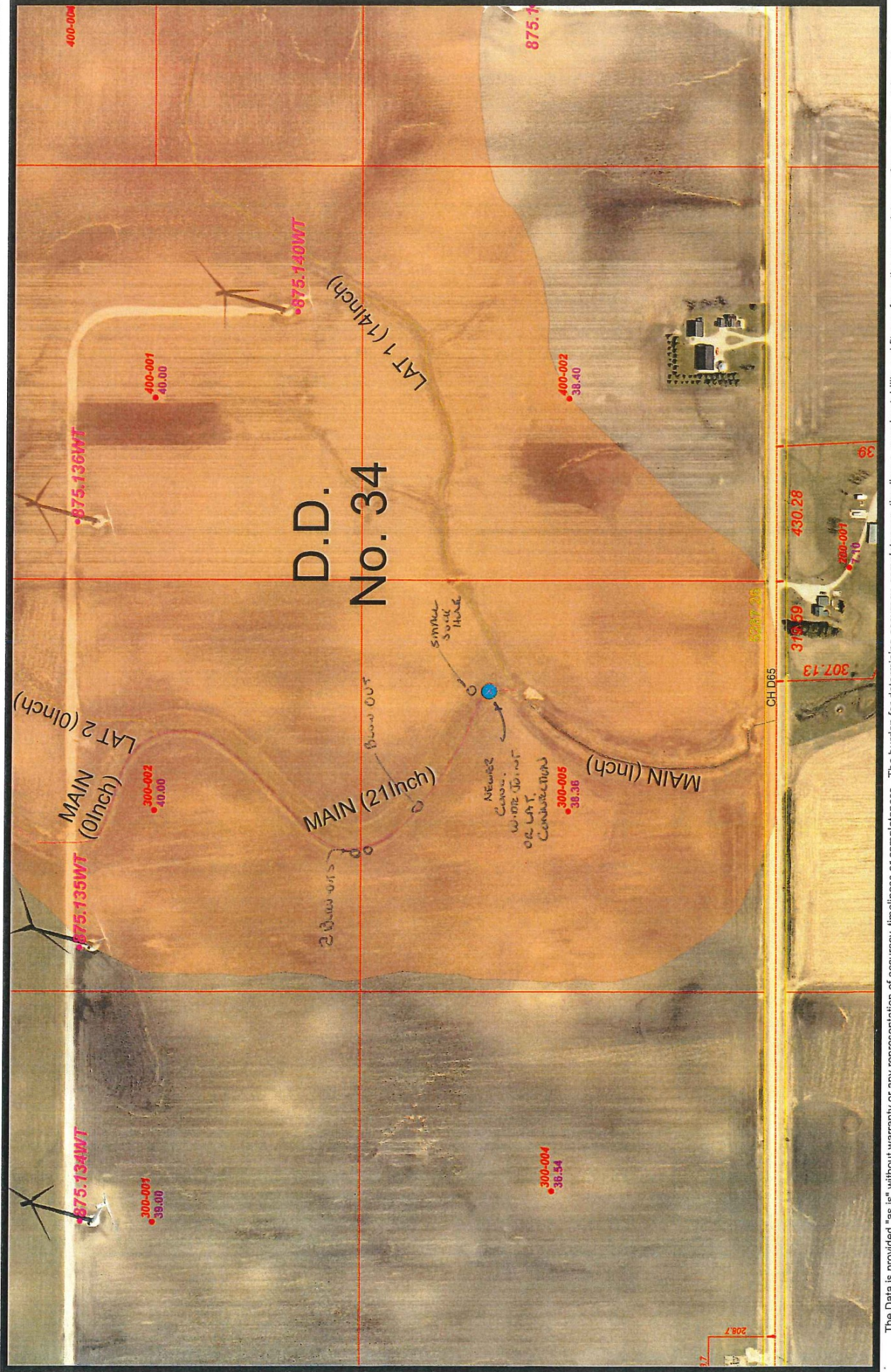




# Hardin County Auditor's Office



Date: 6/30/2017



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## Drainage District:

#34

### Investigation/Repair Summary:

- Landowner in the SE¼ SW¼ of Section 20, Township 86 North, Range 22 West reported multiple blowouts/sinkholes above the assumed original and supplemental Main tile routes in the area immediately upstream of the Main open ditch.
- Visual observation found multiple sinkholes/blowouts along the original and supplemental Main tiles. Some are due to wide joints and another due to a collapsed private lateral.
- Excavation of the two northernmost sinkholes/blowouts found the supplemental 24-inch concrete Main tile collapsed and two wide joints nearby. Excavations of the other two sinkholes (to the south) revealed multiple wide joints between sections of the supplemental 36-inch concrete main tile and original 24-inch VCP Main tile, as well as broken private tile near its juncture with the Main tiles.
- The stretch of collapsed 24-inch supplemental Main tile was repaired with rock bedding and backfill, dual wall HDPE tile, and concrete collars. Wide joints were repaired with engineering fabric and partial concrete collars.
- Private laterals were repaired due to damage/removal while completing other repairs to the Main tile. Private laterals that were 6-inches were repaired with dual wall HDPE tile and 5-inch laterals were repaired with single wall HDPE tile. HDPE was attached to existing private tiles and the Main tile with factory couplers.
- After repairs were completed, excavations were backfilled with on-site soil and one additional load of imported soil.

### Contractor Time and Materials (spent while CGA was on-site):

See attached Tabulated Contractor Time and Materials Sheet.

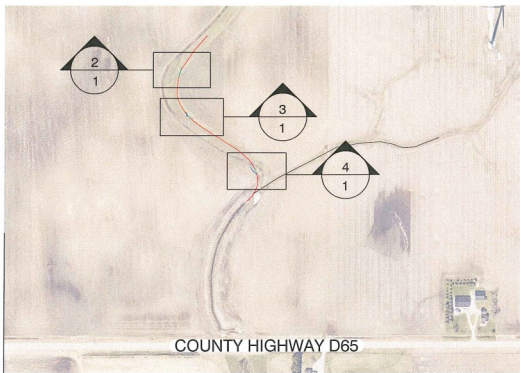
### Additional Actions Recommended:

After leaving the site, it wasn't clear if final grading of soil and seeding had been completed. This should be verified with the contractor. Also, as previously reported, wide joints are a systematic problem on the Supplemental Main tile. CGA recommends the District Trustees evaluate if they want to pursue a large scale fix or continue with repairs on an as needed basis.

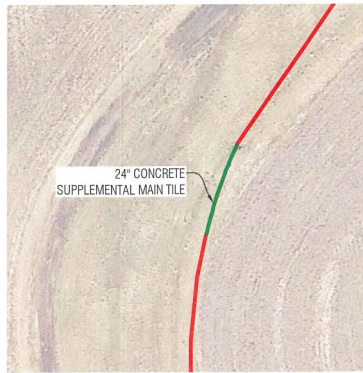


## Tabulated Contractor Time and Materials

Date	Totals	8/13/2019	8/14/2019	8/15/2018
Workman (hrs)	25	7.5	14.5	3
Excavator (hrs)	12.5	3.8	7.25	1.5
24" Dual Wall HDPE (ft)	33		33	
6" Dual Wall HDPE (ft)	71		40	31
5" Single Wall HDPE (ft)	49.5		49.5	
5" x 5" x 5" Wye (ea.)	1		1	
5"x6" Reducer (ea.)	1		1	
Factory coupler (ea.)	5		4	1
Concrete Collar (ea.)	14		14	

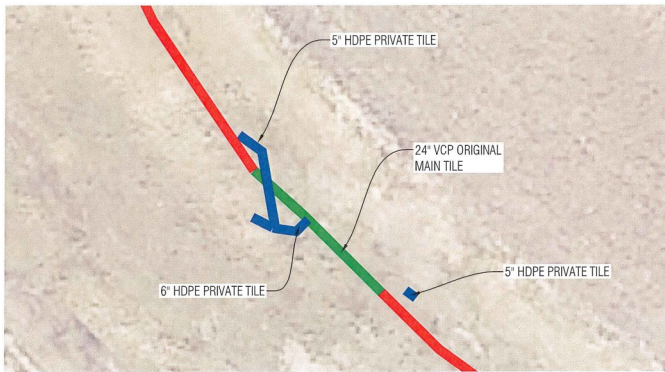


**1 PLANVIEW**  
Scale: 1"=500'

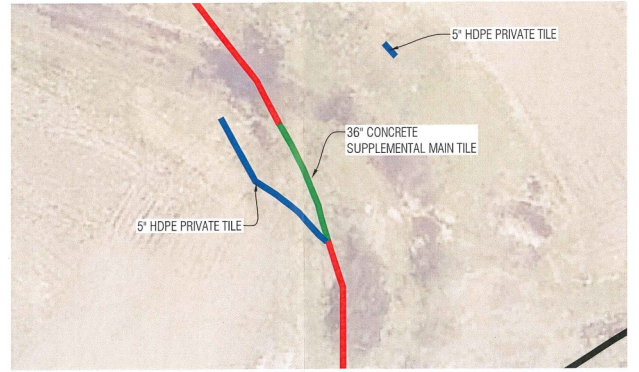


**2 DETAIL VIEW**  
Scale: 1"=50'

- MAIN TILE (GPS LOCATE)
- MAIN TILE (APPROXIMATE)
- PRIVATE TILE (GPS LOCATE)
- LATERAL 1 TILE (APPROXIMATE)



**3 DETAIL VIEW**  
Scale: 1"=50'



**4 DETAIL VIEW**  
Scale: 1"=50'

V:\A\A\CGA\2017\201706\170615\17061511\17061511.dwg - Layer: CGA Plot - 08/19/18 - 4:08pm - J2018

NO.	REVISION	BY	DATE	NO.	REVISION	BY	DATE



DESIGNED: JSD	DATE: 8/15/18
DRAWN: JSD	DATE: 8/15/18
CHECKED: JSD	DATE: 8/15/18
APPROVED: JSD	DATE: 8/15/18

**D.D. 34 REPAIR MAP**  
HARDIN COUNTY, IOWA

PROJECT NO.	6429.1
SHEET NO.	1 OF 1

PLANVIEW

## CANVASS OF 2020 DRAINAGE ELECTIONS

The 2020 Drainage Election was canvassed by the Board of Supervisors, BJ Hoffman and Lance Granzow with Drainage Clerk, Denise Smith present, on Tuesday, January 21, 2020 at 10:30 A.M.

We, the undersigned Members of the Board of Supervisors for Hardin County, hereby certify the following to be a true and correct abstract of the votes cast in this county at the 2020 Drainage Election held on the 21 day of January, 2020, as shown by the tally lists returned from the election precincts.

Drainage District 3 Trustee. There were 3 votes cast as follows:	Keith Helvig received 3 Votes
Drainage District 4 Trustee. There were 5 votes cast as follows:	Mervin Vierkandt received 5 Votes
Drainage District 16 Trustee. There were 4 votes cast as follows:	Leon French received 4 Votes
Drainage District 18 Trustee. There were 2 votes cast as follows:	Robert Schager received 2 Votes
Drainage District 39 Trustee. There were 4 votes cast as follows:	Leowen Ulrich received 4 Votes
Drainage District 45 Trustee. There were 4 votes cast as follows:	John Kix received 4 Votes
Drainage District 55 Div 1 Trustee. There was 1 vote cast as follows:	Jeff Roberts received 1 Vote
Drainage District 55 Div 2 Trustee. There was 1 vote cast as follows:	Jason Martin received 1 Vote
Drainage District 76 Trustee. There were 2 votes cast as follows:	Tom Danger received 2 Votes
Drainage District 98 Trustee. There were 3 votes cast as follows:	Art Hensing received 3 Votes
Drainage District 110 Trustee. There were 2 votes cast as follows:	Leonard Penning received 2 Votes
Drainage District 130 Trustee. There were 4 votes cast as follows:	George Ioger received 4 Votes
Drainage District 148 Trustee. There was 1 votes cast as follows:	Bill Ibeling received 1 Vote
Drainage District 148 Trustee. There was 1 votes cast as follows:	James Bartling received 1 Vote
Drainage District 148 Trustee. There was 1 vote cast as follows:	Ken Smith received 1 Vote

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Chairperson

---

Board of Supervisor

ATTEST:

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Board of Supervisor

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County Auditor

