

AGENDA
REGULAR DRAINAGE MEETING
January 8, 2019 9:30 AM

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

Documents:

[DD 22 LANDOWNER MTG 12_16_2019 - MINUTES.PDF](#)
[01_02_2020 - DRAINAGE MINUTES.PDF](#)

4. Approve Claims For Payment

Documents:

[PAYABLES - DRAINAGE PUBLICATION 01-10-2019.PDF](#)

5. DD 26 - WO 266 - Discuss W Possible Action - Investigation Summary

Documents:

[DD 26 WO 266 INVESTIGATION SUMMARY 01_03_2020.PDF](#)

6. DD 143 - WO 167 - Discuss W Possible Action - Surveyor's Report

Documents:

[DD 143 - WO 167 SURVEYORS REPORT 01_02_2020.PDF](#)

7. DD 1- WO 205 - Update

DD 1 - WO 205 Update - Work Order is still on hold. Marvin Kramer stated weather was not conducive to dirt work this fall, and there is bridge construction/repair in the area now. Kramer will wait until bridge project is complete and re-evaluate then.

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

9. Other Business

10. Adjourn Meeting

DD 22 LANDOWNERS MEETING
December 16, 2019, 9:00 AM

12/16/2019 - Minutes

1. Open Meeting

Hardin County Drainage District Board of Trustees Chairperson, Renee McClellan, opened the meeting. Also present were Trustees, Lance Granzow and BJ Hoffman; Landowners, Royle Duncan, Jo Duncan, Randy Madden, Paul Peterson, Don Peterson, Danielle Peterson, John Liittschwager, Randy Silvest, and Greg Hanson; Jeremy Maas with Gehrke, Inc.; Heather Thomas with Clapsaddle-Garber Assoc. (CGA); Brent Klaiber, Jason Klocko, Jim Sweeney with Forterra; and Drainage Clerk, Denise Smith.

2. Approve Agenda

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

3. Introductions/Attendance

Introductions were made and attendance verified.

4. DD 22 - Discuss W/ Possible Action - Request For Landowner Input

The Trustees requested this meeting with landowners to discuss a request from the contractor for an extension on the December 1st completion date, issues with tile quality and overflow connections from original main to new main tile.

5. Comments/Discussion

Heather Thomas of CGA provided an update. Substantial amount of work on the project has been completed and a request for additional work on the project has been made. Forterra is present, at the Trustees request, because of issues in the field with concrete pipe quality, issues with some of the pipe fitting together in the field and some of the pipe was rejected. Thomas stated that Gehrke did a great job working with CGA during the difficult period when pipe was being rejected, Forterra did send a rep out to confirm that pipe was out of round and some bells had been grouted and possibly been taken off of another project and not fitting together. Pipe diameter was inconsistent when measured vertically and horizontally, and would not seat themselves when in the field.

Hoffman noted that this is why we utilize CGA in the field, to ensure that quality checks occur and are remedied sooner than later. McClellan noted that there has been a history with pipe quality issues on other projects utilizing Forterra, and that quality checks within Forterra should be in place.

Forterra rep, Jason Klocko stated that they were aware of minor issues, and since then they have made equipment updates, and the pipe that ended up on the job site was produced prior to their updates. It was not supposed to leave the Forterra yard but unfortunately it did. Klocko stated that there should not be any other issues going forward, and that Forterra has revamped their equipment for pipes from 15" diameter up to 36" diameter. Granzow inquired if there were any additional costs to the contractor or landowners. Maas of Gehrke stated that he has not settled up with Forterra yet, but that there would be no additional costs to the landowners due to bad pipe. Granzow was concerned that Forterra had updated equipment since the Radcliffe project, which also had issues, and now Forterra has updated again. Klocko stated that some issues on the Radcliffe project was caused by their haulers and loaders.

Granzow stated he would not put pipe in the ground with defects. Landowner Paul Patterson expressed concerns over the use of green pipe, which may be going out of round. Forterra stated it was not green pipe, but defects were in older pipe caused by worn equipment. Thomas noted the bid was let in 2018 so 16 months has elapsed from bid letting to now. Patterson noted that there should be no breakage with careful unloading. Forterra stated this was not due to unloading issues. Thomas noted that it caused some frustration, when the pipe did not fit together, while working in a wet, deep trench box. Thomas thanked the Forterra reps for coming.

Thomas stated the project has substantial completion, and will have Gehrke come back in the spring to address some clean up issues and seeding due to frozen ground conditions, notably on Ryerson's yard, and there is one spot that still has a hole that needs repair. Thomas requests approval for repair to the private tile that ran longitudinally with the new tile, and are estimating 300' to 400' feet at \$9.00 per foot, for a total of \$3,600.

Thomas reviewed the change orders that have been approved. The first change order eliminated a reducer for a savings of \$442, one additional spot repair added \$1,184 to the project, when spot repairs were estimated they

were overrun a bit, in case when you open up the tile in the field you may have to run an extra section of pipe to get it closed up. They were conservative when they went out to bid and have underrun estimates by \$17,992. Exploratory exploration costs of \$1,749 were incurred when investigating, as old pipe had more zigs and zags upon opening it up. The 30" tile that went through Travis Ryerson's front yard, went through the leach field to his septic system, that cost to repair will be less than \$4,000 to repair, final costs for that are not in yet. There was some added 3" rock to the project at a cost of \$24 per ton, and they do not have a total in for that yet. Those changes were approved throughout the project and were approved by the Trustees. Thomas noted that these charges were very reasonable and common on projects like this. Thomas stated they look to be about \$5,500 under bid, and still have final quantities to get but anticipates an additional \$4,900 less than that, so roughly \$10,000 in all under the original bid cost.

Additional work requested was for overflow connections, there were times when it appeared that the old tile was running well and new tile was empty or that the new tile was running well and old tile was empty. Concerns were raised at that time that things were not working correctly. This was caused because there was still some blockage in the 2011 tile that had not been replaced yet. Landowner Randy Madden had raised concerns that if the original main collapses that water is not connected to the new tile in very many spots. The question was raised as to what could be done to address this possibility in the future. It had been discussed that a better way to connect the old and new tile systems would be possible if over flow connections were added between the two systems. Four locations were identified for potential overflow connections, it would not take water from one tile and put it into the other, if the water got high enough in one of the tile, it could over flow into the other, and vice versa. Thomas stated the 16" original main is above the new 30", and they could provide a 12" link between them, providing some overflow connection. CGA requested a price from Gehrke to do this work, at a price of \$33,300 for four locations, work has not been authorized at this point. Thomas asked if the district Trustees and landowners were interested in this option and opened the conversation up to them. Because this is overflow, it could be done as part of this existing contract, and would not consider it an improvement, which would avoid new regulations and hearings.

Thomas stated that locations were north of 200th St, the old tile and new 30" tile were close together so that would be one possible location, going north on the east side of C Ave, just northeast of Randy Silvest's house, the old 16" main tile crosses over the top of the new tile, so that is a potential location, going further north the 30" tile ties into an existing structure, and there the district tile goes into an east leg and a west leg, heading west at the next manhole between Randy Madden's and Randy Silvest's farm, there would be another potential overflow location, and on the east leg on Marvin Krause's ground where there is already some of this structure built in because the 16" tile there now was not flowing and silting in, when we connected to it in this project, CGA went north of this to the next manhole for the 4th overflow connection. Only one had been installed on Greg Hanson's with the original project.

Thomas stated that the old 2011 project took everything from upstream and dumped it into the new system. The new locations have elevation differences, and that the proposed overflows would not be used unless it was very high flow and something happened that one tile would be very full and the new one would have capacity. Thomas stated that under high water flow water would get into both tiles at the proposed overflow connections. The 2011 project calculation's intent was to use both systems but wasn't sure if the math added up as to how they actually went through both systems, and thinks that these connections will restore that intent of the 2011 Engineer's report.

Landowner Madden asks if we need some or all of these connections. Thomas stated the proposed locations are based on elevations and capacity on the lower end may not help with overflow on the upper end, and that is why the structures were spaced out, and one on each west and east leg. Madden asked about the condition of the old clay tile, Thomas stated it is what you expect for 100 year old tile, and noted there is lots of functioning old tile still left in the county. Thomas noted spot repairs were done as needed, especially in Randy Silvest's land and some spot repairs on old tile may be needed in the future.

Landowner Royle Duncan asked about standpipes on old lines. Thomas stated that the old hickenbottom standpipes were switched out to beehive standpipes, and the riser is now a 24" riser, which would allow for a camera to go down the standpipe for televising should it be needed in the future, which provides access without having to dig up the tile. Contractor Maas noted that they have a flat grate intake with straw waddles, every road crossing has a 12" beehive on one side and the other has a 30" intake, beehives are all on new tile, the old has orange intakes. Thomas stated on heavy rain, you may still see some bubbling up, tile is sized to drain a 1/2" of rain per day, but if you get a heavy 4" rain it will take some time for the system to catch up.

Madden had concerns about snowplows damaging the hickenbottoms and getting sheared off by snowplow wings. Granzow stated he would address concerns with Secondary Roads about the hickenbottom drains. Thomas noted that the ground level inlets would be posted and flagged.

McClellan asked what the time line would be for the new overflow installation. Thomas stated the contractor struggled through the wettest season on record, and would like to give the system some time to work and drain off

excess water. Thomas stated it would not be this year and maybe not even next spring, it may be fall. Maas stated the conditions this year were some of the worst he has ever seen. He stated that the water table is so high it makes work extremely difficult. He is more than happy to do it but he needs dry conditions to haul rock in, and he wants to wait till next fall to prevent crop damage and compaction.

Maas stated that two of these connections are in concrete boxes which are difficult to work in, Thomas stated she thought this is the best way to connect on two of the proposed connections, the structure allows for 4 tile connections, in addition if there is problems in the future, giving visual access at the new structures is much better than digging up tile. Madden stated he didn't feel all 4 proposed locations were necessary. Royle Duncan agreed, and asked if we could we do two upper and equalize the upper area are the lower connections necessary. Thomas stated that in the future, more people may connect to the new tile, possible private tile connections would impact the flow. Thomas stated the main equalizations would happen on structures 4 and 6, Thomas stated there are intakes in the ditches, and will function if they remain clean and open.

Thomas stated the connections could be voted on individually to approve one, some or all, or none at all. Granzow asked if the top 2 structures, locations 4 and 6, if anyone opposed those two. Discussion of costs about the tile connections in the concrete box locations centered around which type of connections were less costly. Thomas stated that two of the structures were concrete boxes, and two were not. Madden asked for Contractor Maas's opinions.

Maas stated he personally would not do the crossovers, only because the theory is correct but he does not think the old 30" concrete will blow up into the old one. Maas stated, the structures will take some pressure off, he recommended the two manholes but not the crossovers.

Thomas stated the reason these were brought to your attention, was to give either tile an outlet into the other system if issues arise. McClellan inquired about function of the old tile, Maas stated the old tile has some large gaps, which leads to sucking in dirt, and larger holes, but the old tile repairs went well. Thomas stated many of the issues were due to this being the wettest year on record since they began keeping records. McClellan stated the landowners can choose which ones they want to install. Don Peterson stated we should give the system time to work, and no predictions for next year's weather, and if we do 4 and 6, and do the others later on, and by doing the two upper connections it may take pressure off the lower end of the system. Don Peterson recommends doing locations 4 and 6.

Thomas stated costs for the number 4 and 6 locations would be approximately \$23,000, costs for all four would be \$33,000 as the other two locations do not require drilling into a concrete box and are simpler connections. Maas wanted to make sure this would not hold up the retainage on his original bid, and that if it would hold up the retainage on his original bid to add 5%. Thomas stated the Trustees have the option to release a good portion of the retainage and they will need to hold on to something for the new project to go on, for instance a minimum of \$500. Maas stated they would need to hold onto some funds for seeding and will ask for some minor cleanup. Thomas will make a recommendation for retainage when they have the final quantities in.

Maas noted there may be a couple more tile repairs out there, he reassured Randy Silvest that he would get back to them. Maas has a one year maintenance obligation.

It was noted that the assessment would not be completed until after all work is complete, with new work being completed by November 30, 2020, and after the completion hearing and all invoices are turned in for the project. Smith will verify dates.

Hoffman motioned to approve items number 4 and 6 per the bid price from Gehrke and to the engineering specifications provided by CGA. Seconded by Granzow. All ayes. Motion Carried.

Right now there is a December 1, 2019 completion date and CGA is recommending an extension on completion dates, CGA is recommending May 31st as a completion date for original project work, clean up and seeding, and November 30th, 2020 as a completion date for the two new crossovers (number 4 and 6). Then completion hearing would follow. Maas would like warranty to begin on May 31, 2020 date.

Hoffman motions to extend completion date to May 31, 2020 and the newly approved project work to November 30, 2020 and the warranty will begin May 31, 2020, upon completion. Second by Granzow. All ayes. Motion approved.

Landowner Randy Silvest inquired about the work being done in his field, and the driveway that was put in by his field. Randy would like Maas to remove the driveway, Maas stated it was on his punch-list to complete. Thomas stated the work in Randy Silvest's field is a separate project.

Thomas requested a formal approve on Maas repairing tile at \$9.00 per linear foot on Anderson's farm, this was a clay tile that was dug up, and weaved in and out of their diggings. Maas will plow in a 6" tile to repair.

Hoffman motioned to approve the replacement of the damaged tile on Anderson's farm at \$9.00 per linear foot. Second by Granzow. All ayes. Motion carried.

Thomas requested direction from the Trustees as to if they would like CGA to do full time inspection on the installation of the two crossover joints. Right now they are within a few thousand dollars of their original estimate on their fees, but additional work will cause them to go over that estimate. Maas stated he did need CGA to stake out the locations for the new overflows.

Motion by Hoffman to have CGA oversight for staking items 4 and 6 previously approved today. Second by Granzow. All ayes. Motion carried.

Randy Silvest asked why there were wood stakes across from his place. Maas had Garret stake out the new 6" tile just approved. Thomas stated she was waiting on an update from contractor on Randy's work order.

Maas stated he wanted to thank the landowners for working with him and considering how far the weather put them behind. Maas thanked Randy Madden for his assistance. Maas stated if there were any issues with tile he may have missed to please go through the correct work order process, and make CGA aware of the issues as well so they can document where the issues are. Landowners should contact the Drainage Clerk, who will send CGA out to locate and verify.

There was discussion about the old tile removed and how new tile was connected, it was agreed that there should be follow up on this at the completion hearing. Granzow would like to know what was removed from the 2011 project. Madden asked for direction if one would want to connect to this new tile. Maas recommends the use of a small square hole with a chop saw, and he has used a quick setting grout, that smooths out well with the tap tees they are using. Madden stated he would like there to be more communication with other contractors, who have made large chop saw holes in cement tile that do not seat well and allow debris into the tile, that this is a better method. CGA noted that Gehrke did a fabulous job connecting private tiles in this project, and the connections were tight and smooth. Thomas stated it would be a great idea to find a way to store how and where those private tile connections were made somewhere in the DD files, for future reference. Thomas stated the conditions they gave Maas were to use a goal flow dual wall tap tee with the following conditions: the connections do not protrude into the pipe where it could potentially restrict flow or camera access, the hole cut in the rcp pipe is neat, the grout is smoothed out and adequately seals and holds the connection, the joint is soil tight and granular bedding is used to support the connection. Maas stated the name of the grout was called WaterStop and would seal a hole while water flows on it.

Landowners asked if this project would be televised after completion, it was stated that this would not be televised upon completion as that was not part of the original bid. John Liitschwager inquired if there would maps available of the new work, Thomas stated that there will be new maps with GIS locations available at the completion hearing.

The Trustees thanked everyone for coming to the meeting and sharing their thoughts on the project.

6. Other Business

7. Adjourn Meeting

Hoffman moved to adjourn. Second by McClellan. All ayes. Motion carried.

REGULAR DRAINAGE MEETING
January 2, 2020 9:00 AM

1/2/2020 - Minutes

1. Open Meeting
Hardin County Drainage District Board of Trustees Chairperson Renee McClellan, opened the meeting. Also present were Trustee Lance Granzow, Trustee BJ Hoffman; Hardin County Economic Development, Angela De La Riva; Iowa Falls Economic Development Director, Mark Buschkamp; Clapsaddle-Garber Associates (CGA), Lee Gallentine and Drainage Clerk, Denise Smith.
2. Approve Agenda
Granzow moved to approve the agenda, second by McClellan. All ayes. All approved.
3. Approve Minutes
Hoffman moved to approve the minutes to Regular Drainage Meeting dated 12-18-2019. Second by McClellan. All ayes. Motion carried.
4. Discuss W/ Possible Action - Drainage Trustee Election Canvas
McClellan moved to set Tuesday, January 21, 2020 at 10:30 AM for the Drainage Trustee Election Canvas. Second by Granzow. All ayes. Motion carried.
5. DD 55 Wetland Project - Presentation Date Confirmation
DD 55 Wetland Project - Presentation Date is January 22, 2020 at 1:00 PM. Mike Bourland confirms his availability for proposed date and time. Hoffman moved to accept date and time for the Wetland Presentation on January 22, 2020 at 1:00 PM. Second by McClellan. All ayes. Motion carried.
6. DD 124 - WO 259 - Discuss W Possible Action
DD 124 - WO 259 Landowner Steve Kjormoe is requesting an update on WO 259. Gallentine stated the WO had not been assigned to previously discussed out of county contractor Justin Ross, as we had pulled back when in county contractors became available. This work order is one of about a half dozen others waiting for a contractor to become available. This work order is in queue and Adam Seward will hopefully get to it soon. Granzow requested to ask Seward if he can get to this one or not. Gallentine will verify Seward's schedule and let the Drainage Clerk know Seward's timeline.
7. DD 22 - WO 276 Discuss W Possible Actions
DD 22 - Landowner Randy Silvest stopped in to the Drainage Clerks's office with concerns about work being done on his farm. It was noted that this work was done as part of the larger DD 22 project and not WO 276 as noted on the agenda. Silvest's concerns were shared with Heather Thomas of CGA, Thomas reached out to contractor Gehrke, and replied to the drainage clerk via email. Silvest's concerns and the replies are in black, (Gehrke's reply is in red, Thomas's reply is in blue):

The dirt grading was done in a deep V shape and the water flows through the field about 100" south of the cut the contractor made, water is not flowing to the cut.

Not sure what area he means by this. The guys reshaped 2 areas to get water out of his field where is was visible that water stood there. We can fill it back in I guess in the spring if something is wrong. (we were just trying to make it better than it was before we were there. We will touch base with Randy Silvest on these to confirm what his concern is.

He had questions about the standpipe in the middle of his field, he wanted to know why it was located in that spot.

Have no idea where this issue is.??

We only installed intakes in the ditches. (unless I forgot about one somewhere, but I cannot think of where.)

We will touch base with Randy Silvest on these to confirm what his concern is.

He states there is a fencepost that was removed and has not been replaced yet.

He has mentioned this before and we have no idea what or where this was?? He even said I removed it when I was mowing crops which was a long time ago.

We will install a new post if needed, we just need to know where. We will touch base with Randy Silvest on these to confirm what his concern is.

There is a 100" long pile of dirt in his field that was left by the contractor and has not been cleaned up yet, he wants to know when that will be cleaned up.

This area is what we have talked about and is the spot where we need to remove and replace the 24" which the crew installed without Randy Brocka blessing.

We will do it I am hoping after the first of the year due to a couple short weeks this week and next. Pending weather. We were aware of this and it is one of the items that we discussed at the landowner meeting that is still on the punch list.

Smith wanted to make sure that the Trustees were made aware of Randy Silvest's concerns. Thomas will respond to Silvest to address his concerns. Smith stated WO 276 is still open, and has not come up yet for lottery.

8. DD 160 - WO 283 - Discuss W Possible Action

DD 160 - WO 283 Kenny Smith reports that the tile outlet is plugged where it meets the open drainage ditch. Drainage Clerk Smith stated she was unsure which DD to label this WO with, as the location that Kenny Smith references actually lies in DD 155, but the original tile maps reference the tile outlet as lying in DD 160. Kenny Smith reports that the tile outlet was plugged when utility contractor replaced some poles and left diggings in the open ditch, plugging the tile outlet. Smith referenced current/recent utility permits and did not find one that shared this location. Gallentine stated that this location was between Ackley and the ethanol plant and that in the last couple years there was possibly a new rail siding or an access road added, Gallentine was unsure if this was a utility contractor or the railroad. Hoffman motioned to instruct CGA to investigate and bring back their findings, and to see if CGA can determine who did the work that resulted in the remaining dug material. Second by McClellan. All ayes. Motion carried.

9. DD 9 - Discuss W/ Possible Action - ROW Easement

DD 9 - We have received a draft back from attorney Ryan Haaland, which Smith shared with the Trustees, and they had a chance to review it. Smith asked what the Trustees thoughts were on the draft, if they felt it was ready to go out, and if so, would the Trustees like Smith or Legal to send that out. Hoffman inquired what the usual procedure was for sending this out. Smith stated she did not know but would find out from previous Clerk Junker, when she returns or could reach out to other drainage clerks for their policy. Gallentine stated that plans and specs for the project are ready and we had decided to hold on the bid letting until the easement was granted. Hoffman stated he would like to execute the easement as soon as possible. Granzow stated it should be sent out Certified Mail.

Hoffman motioned to execute the easement and send to Mr. Sailer via USPS Certified Mail, second by McClellan.

In further discussion, Granzow stated he did not want Mr. Sailer to be confused, because he does own land in the district, but that the easement is only for the portion of the land that lies outside the district, that he is still included on the costs for the parts of the tile project that lie within the district. Gallentine stated he did email tenant Kevin Vierkandt, and he did not receive notification that the email was not received. Gallentine can email a copy of the of the plans to Smith to include with the easement document. Granzow stated that the landowner's tenant Kevin Vierkandt should also be notified of the easement via Certified Mail and provided a copy of the plans.

Hoffman called for the vote. All ayes Motion carried.

Hoffman motioned to send a copy of the easement with plans and map to tenant Kevin Vierkandt via USPS Certified Mail. Second by McClellan. All Ayes. Motion carried.

10. Other Business

DD 122 & DD 8 Lat 2 Warranty - There was a reminder on the drainage calendar, in minutes dated 6-27-2018, for the Public Hearing Minutes on Completion of Contract, stated that we needed a reminder on the calendar to have

the Trustees to look at the calendar to look at the warranty at one and a half years. Smith stated we are now at that one and a half year mark, and asked if this was something the Trustees would like Smith to add to another agenda to review. Granzow directed Smith to add to the agenda and let the contractor know, this would be contractor Cole Excavating. Granzow asked if we had a farmer that had volunteered to share review of work done during warranty. Smith will review minutes to verify if there were any volunteers.

DD 1 - WO 205 - Minutes of 5/23/2018 state that a letdown structure was discussed and tabled for one year before revisiting. Minutes quote "Gallentine explained the additional actions recommended to bring fill in and install a let down structure. He stated the current channel bottom is below the original design. Marvin Kramer stated he believes the district is fighting mother nature while Jerry Kramer added that he would like to see the best long term interest for the drainage district. The Trustees agreed to table any action for another year while Marvin Kramer speaks with Arnold Luiken about the situation and will keep an eye on the area. Granzow moved, Hoffman seconded to table any action for another year." Smith asked if she was to contact those two landowners for feedback. Gallentine stated that Marvin Kramer was going to try to shape some of that ground on his own, and was to let the Trustees know how that worked out.

DD 165 - WO 232 - Landowner Bill Ibeling requested an update on the status of this work order which was awarded to McDowell in April of 2019. Ibeling reported that he had dug out 2 lengths of 18" tile that are broken and need replaced, Ibeling wondered when someone could get to his repair. Gallentine stated that 165 was put with 146 and 148 for a clean out project with the contractor from Humboldt, and when DD 148 took their District back to Private Trustees, and the contractor was not willing to come back to finish up these two small projects. Gallentine spoke to McDowell in the spring and they were willing to take it on but they have not progressed, when Gallentine spoke with McDowell this fall, McDowell stated that Gallentine could take small projects to other contractors as his schedule was full for fall/winter. Gallentine inquired if the Trustees would like to combine this with DD 9 project. CGA has plans done, as they were in the bid letting for DD 148, bid amount was under \$15,000. Gallentine stated that it could be combined with DD9, he was concerned if it went to lottery the new bid may come back higher than the previous bid. Granzow stated that the contract with McDowell was voided when the district went to Private Trustees. Granzow requested Gallentine reach out to McDowell and see if he can get to this work order, Gallentine will let Smith know how McDowell responds.

11. Adjourn Meeting

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



Hardin County

Description	Vendor	Amount
DD 22 For Prof Serv.11/16/2019 to 12/14/2019	Clapsaddle-Garber Assoc	17,058.30

Total Regular Payables: 17,058.30
Total Stamped Warrants: 0.00

Drainage District:

26

Investigation Summary:

- Landowner reported a washout on the main open ditch in SE¼ NE¼ of Section 30, Township 88 North, Range 22 West.
- Found existing 24" CMP surface drain in good physical condition and bent on upstream end.
- Found washout approximately 50 feet northwest of said existing surface drain.
- Called Gehrke Inc. and although they are in the area, their schedule does not allow them to perform any repair work.

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

None, as only visual observation was performed.

Additional Actions Recommended:

Single 24" surface drain doesn't appear to be adequate for water flow for this area. Therefore, the following is recommended:

1. Install a second 24" surface drain with anti-seep collar in washout area.
2. Bent portion of existing surface drain needs repaired.
3. Inlet areas for both surface drains need reshaped to ensure positive drainage.





Drainage Work Order Request For Repair Hardin County

Date: 7/31/2019

Work Order #: WO00000266

Drainage District: DDs\DD 26 (51049)

Sec-Twp-Rge: 30-88-22 Qtr Sec: SE NE

Location/GIS: _____

Requested By: James Sweeny

Contact Phone: (614) 373-3131

Contact Email: jsweeney@cgaconsultants.com

Landowner (if different): David/Annette Sweeney

Description:

DD 26 - Overland water flow is bypassing surface inlet and has created a washout in the north bank of the DD26 main open ditch. Said washout and surface inlet are marked with a fencepost and pvc at each. The washout is approximately 1200 feet upstream of the DD22 Main tile outlet (of which is on the west side of C Avenue). Both the surface inlet and washout are visible via aerial photography on the beacon website.

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

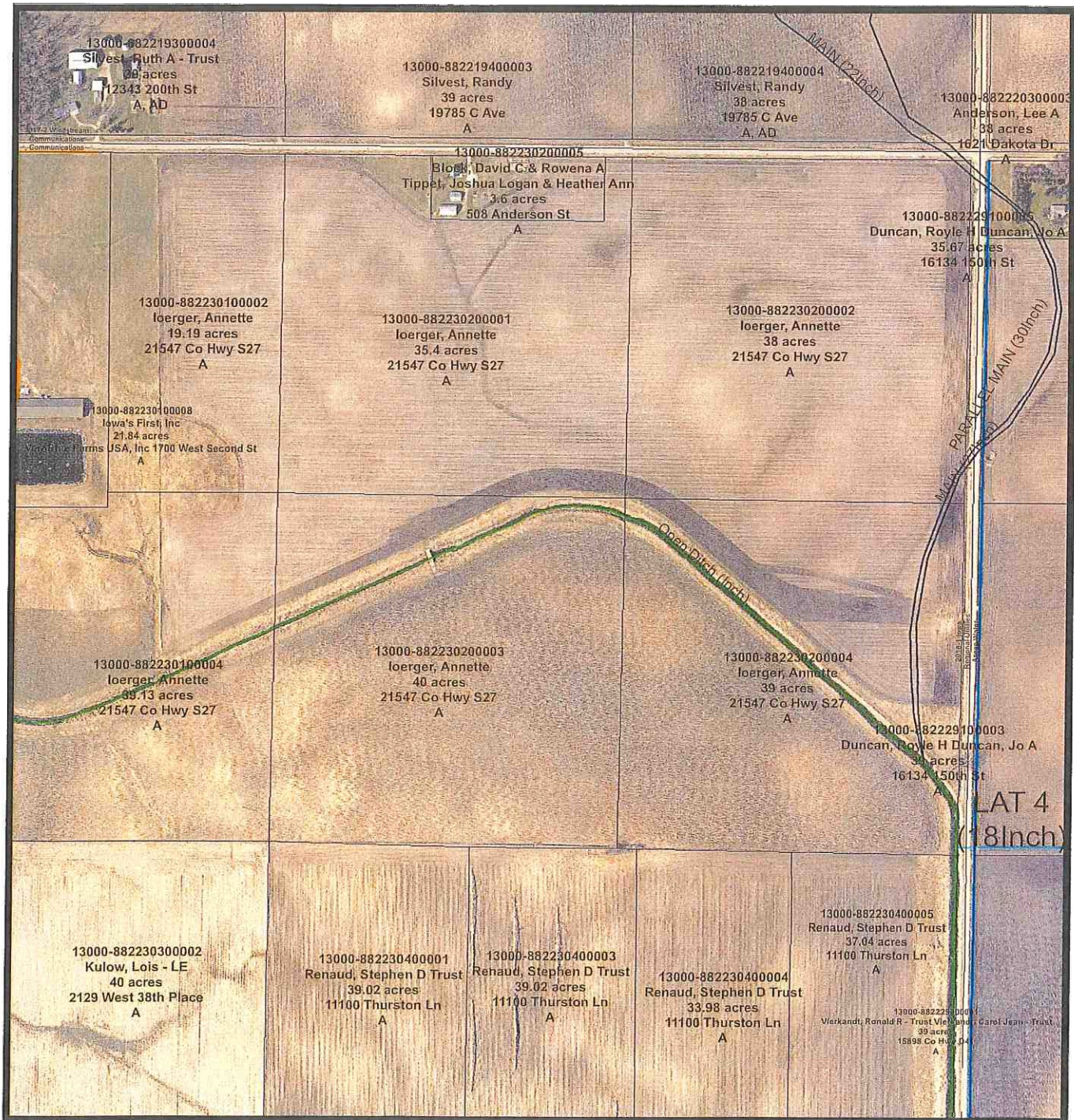
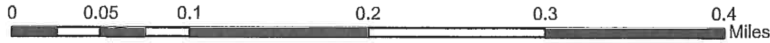
Approved: _____ Date: _____



Hardin County Auditor's Office



Date: 7/31/2019

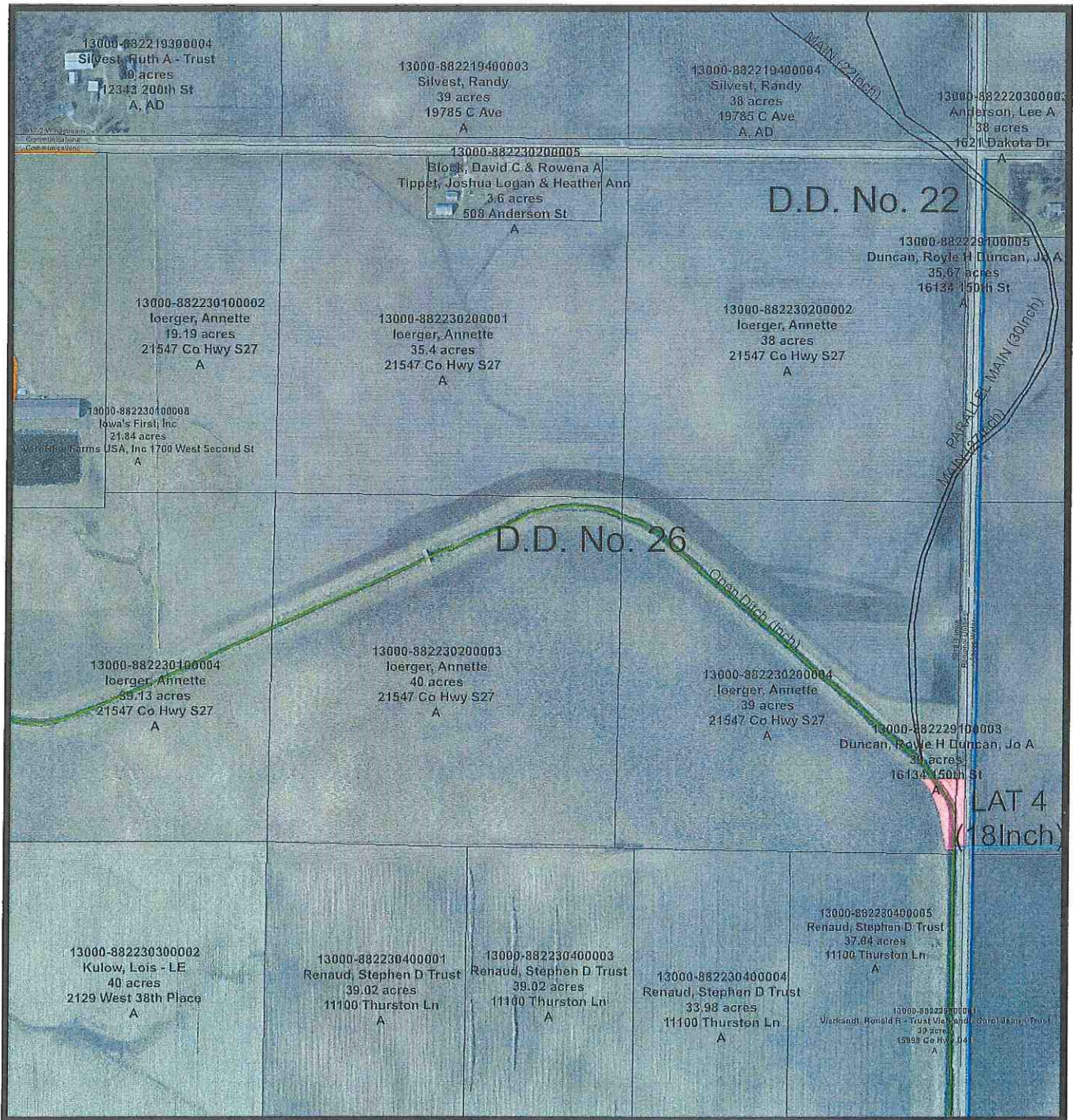
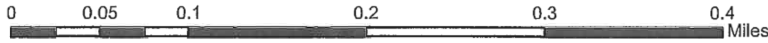




Hardin County Auditor's Office



Date: 7/31/2019



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CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

8/21/19

PROJECT NUMBER:

5055.12

COUNTY, ROUTE, ROAD:

DD 26

LOCATION:

open Ditch, W. OF C. AVE.

DAYS OF WEEK:

S M T W T F S

SHEET NO.

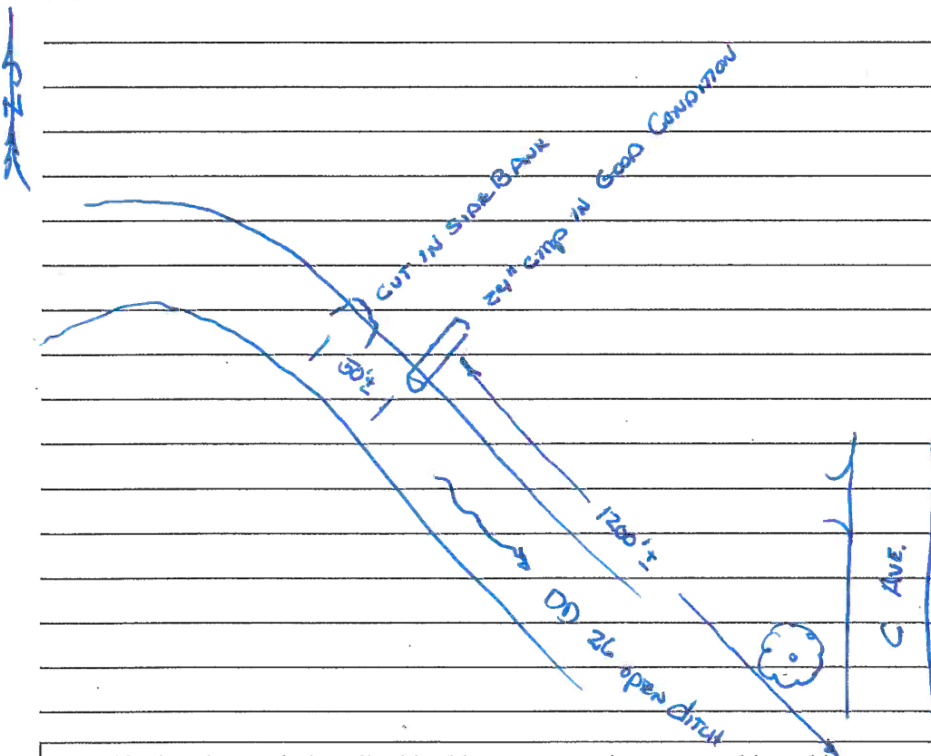
1 OF 1

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Cloudy, 70°, calm, 3.3" in Rain Tues. Morn.

Drove W @ C. AVE. TO DD26 open ditch, walked in west 1200' to 24" comp surf drain on N. side ditch. Existing surf drain is in good shape, still has stencil of manufacture on top. Wheeling corrugating, 14 GA., 2 oz. copper steel. It appears that 24" surf drain isn't enough for heavy rain fall, it washed a cut in top bank to W. of surf drain. Farmer put large field stones in wash-out.

I would suggest leaving existing comp in, but fix flow restricting bend in inlet side of 24" comp. Then set a new 24" comp in wash-out area, grade to drain.



I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Observer's Signature:

[Handwritten Signature]

Date Prepared:

8/21/19

Reviewed by:

Engineer

Date Reviewed

EXISTING 24", 14 GAGE, COPPER STEEL 2 OZ. COATING



END OF EXISTING Gmp BENT, RESTRICTING FLOW



24" CMP WITH BENT END



24" CMP EXISTING SURF. DRAIN



Copper Steel Cmp SURF DRAIN



WASH-OUT FURD WITH ROCK



WASH-OUT FILLED WITH ROCK



LOOKING E. ON DD26 FROM WASH-OUT



HARDIN COUNTY, IOWA

2020



**SURVEYOR'S
REPORT
ON MAIN TILE
RIGHT OF WAY
DRAINAGE FOR
DISTRICT NO. 143
HARDIN COUNTY,
IOWA**



I HEREBY CERTIFY THAT THIS LAND SURVEYING DOCUMENT WAS PREPARED AND THE RELATED SURVEY WORK WAS PERFORMED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF IOWA

Zeb J. Stanbrough
ZEB J. STANBROUGH, P.L.S.

1-2-2020

DATE

LICENSE NUMBER: 19957
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021
PAGES OR SHEETS COVERED BY THIS SEAL:
SHOWN ON TABLE OF CONTENTS



CLAPSADDLE-GARBER ASSOCIATES OFFICE LOCATIONS

16 East Main Street, PO Box 754 | Marshalltown, IA 50158
1523 S. Bell Avenue, Suite 101 | Ames, IA 50010
5106 Nordic Drive | Cedar Falls, IA 50613
739 Park Avenue | Ackley, IA 50601
511 Bank Street | Webster City, IA 50595

Project Office
739 Park Avenue
Ackley, IA. 50601
Phone: 641-847-3273
Fax: 641-847-2303

**Surveyor's Report on Main Tile Right of Way for
Drainage District No. 143
Hardin County, Iowa**

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Surveyor's Report on Main Tile Right of Way for Drainage District No. 143 Hardin County, Iowa

1.0 INTRODUCTION

- SCOPE OF WORK – The Hardin County Board of Supervisors, acting as District Trustees, requested Clapsaddle-Garber Associates to determine the current easement width of the Main tile of Drainage District No. 143 through the City of Radcliffe. This report will summarize the history of establishment for said Drainage District 143 and the establishment of City of Radcliffe along with the surrounding subdivisions. At the Drainage District 143 Landowner Meeting held on April 24, 2019 the results of the investigation for Work Order #167 were discussed and reviewed by the District Trustees and landowners. For reference, a copy of the meeting minutes is included in Appendix A and a copy of the Investigation Summary for Work Order #167 (as considered at the April 24, 2019 Drainage District 143 Landowner Meeting) is included in Appendix B. As a result of this meeting, the District Trustees requested Clapsaddle-Garber Associates to move ahead with the Surveyor's Report to determine the width of the easement for the Main tile through the City of Radcliffe.
- LOCATION – The area of investigation was limited to the upper end of the Main tile located in Section 29, Township 87 North (T87N), Range 22 West (R22W), Hardin County, Iowa. Specifically, the downstream limit was where the Main tile crosses the east side of Section 29 (center of East Street aka County Highway S27) at approximately $\frac{3}{8}$ mile north of Highway #175. It then goes west on Ionia Street with the upstream limit being where the Main tile crosses the south right of way line of Ionia Street at approximately $\frac{3}{4}$ mile, which is just west of May Street. For reference, a copy of a Drainage District No. 2 map by Reigles Engineering Company, showing said limits is included in Appendix C.

2.0 PARTIAL DISTRICT HISTORY – The following is a summary of the pertinent history (prior to 2014) of the main of Drainage Districts No. 2 (renamed 143 later) and 143 as obtained from the Hardin County Auditor’s drainage minutes and records and those of Clapsaddle-Garber Associates. The partial Drainage District History also includes recorded subdivision that are on file in the *Hardin County Recorder’s office*.

1881, Jun. 8 *Original Town Radcliffe*

1883, Nov. 9 *Rumper’s Addition*

1884, May 23 *Stukenberg’s Addition*

1895, Jul. 16 *Rumpers Fourth Addition*

1901 Jun. 6 *Drake and Dallard’s Addition*

1903, Aug. 15 Petition and Bond for establishment of Drainage District No. 2 was filed. Said petition indicated that a main drain, sub-mains, and laterals should be installed. Specifically, it indicated that the main should start on the west side of Section 32, run northeast and east into Section 29 to Ionia Street. There it should run east on Ionia Street to the east side of Section 29 where it would continue southeast and terminate in an open ditch.

1903 E.E. Fox is appointed as the Engineer for the project and an Engineer's Report was filed for this project. Although no copies of said report could be located, it is known to have existed as E.E. Fox revised it through a letter dated Sept. 10, 1903.

1903, Aug. 27 Publication of Notice of Drainage District No. 2 establishment.

1903, Sept. 29 Notice to Contractors for construction of Drainage District No. 2 facilities with a bid date of Nov. 11, 1903.

1906, Mar. 1 Publication of Notice of Drainage District No. 2 establishment.

1906, Jul. 7 Publication of Notice to Contractors for construction of Drainage District No. 2 facilities with a bid date of Aug. 6, 1906.

1906, Aug. 14 Construction bond with Austin Rorem for construction of Drainage District No. 2 facilities was filed.

3.0 INVESTIGATION – All investigation for this report was limited to office work only. Said investigation included to looking for right of way information for the Drainage District 143 within the City of Radcliffe. The following Hardin County offices were searched for any information regarding Drainage District 143 right of way within the City of Radcliffe:

- County Auditor’s Office
 - Transfer books – Nothing was found related to Drainage District 143 right of way
 - Current plat books – Nothing was found related to Drainage District 143 right of way
 - Old plat books – Nothing was found related to Drainage District 143 right of way
- County Engineer’s Office
 - Field books – Nothing was found related to Drainage District 143 right of way
 - Sherman Township field book – Nothing was found related to Drainage District 143 right of way
- County Recorder’s Office
 - Record subdivisions – Nothing was found related to Drainage District 143 right of way

City of Radcliffe offices were not searched for any information in regard to Drainage District 143 right of way as it is not believed that the city would have any pertinent Drainage District records that would date back to the early 1900’s. A review of the district history shows that the City of Radcliffe existed prior to the Drainage District 143 establishment and therefore the right of way were platted existed prior to said Drainage District 143.

4.0 DISCUSSION AND CONCLUSIONS – Based on the above, it appears that no width was ever stated for to Drainage District 143 right of way and that no damages paid for taking the land to establish said right of way. As the City of Radcliffe and its surrounding subdivisions were established prior to Drainage District 143, it would logical that the existing street right of way for Ionia Street (66 feet) would have been used for the Drainage District 143 right of way through the City of Radcliffe. This would explain why no damages had been paid. Essentially, the right of way for Ionia Street and Drainage District 143 right of way are one and the same from East Street (aka County Highway S27) to east side of Cleveland Street. See attached City of Radcliffe map included in Appendix D.

5.0 RECOMMENDATIONS – Definition of the Drainage District 143 right of way would help define where maintenance could be done in the future to protect and ensure Main tile performance. Therefore, it is recommended that the Hardin County Board of Supervisors, acting as District Trustees, should take action to accomplish the following:

- Approve the Surveyor’s Report as prepared by Clapsaddle-Garber Associates.
- Hold the required hearing on the proposed Surveyor’s Report.

NOTE: It should be noted that Ionia street right of way and Drainage District 143 right of way may be one and the same, but trees outside of right of way may be influencing and/or having a negative effect of the Main tile performance.

**DRAINAGE DISTRICT 143
LANDOWNER MEETING**

4/24/2019 - Minutes

1. Open Meeting

Hardin County Drainage District Board of Trustee, Lance Granzow, opened the meeting. Also present was Trustee, Lance Granzow; Landowners Taylor Roll, Jacob Handsaker, Kris Bell, Paul Handsaker, Phyllis Drake, Jim and Helen Granzow, Doris Eike, Bryan Drake, Calvin Hyland, Carole Topp, Kathy Houck, Curt Groen, Kim and Hope Boddard; Lee Gallentine and Zeb Stanbrough with Clapsaddle-Garber Associates; Drainage Clerks Becca Junker and Tine Schlemme.

2. Approve Agenda

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

3. Explanation Of Project

Gallentine explained at the hearing for the upper end of the main tile that was back in 2017 it was requested that instead of just worrying about trees in the golf course, the entire route to the main tile be looked at for possible trees causing root issues. CGA went out and took an inventory of all the trees within 50 feet of the main tile. Referring to the Investigation Summary, Gallentine explained the trees that were a main concern due to species were highlighted. Gallentine then directed the meeting back to the Trustee's to talk about the Landowner Meeting that took place in Radcliffe that he was not in attendance of.

Granzow explained that at the Radcliffe meeting the idea was to break up the project into different targeted sections so that it did not exceed the \$50,000 threshold. Following the Radcliffe meeting, it was brought to the Trustee's attention that the Code of Iowa specifically states that separating any project to keep under the \$50,000 threshold cannot be done. The Trustee's then decided to hold another landowners meeting to decide what the next step in clearing the tile would be.

4. Comments/Discussion

Hoffman explained that his duty as a drainage district trustee is to make sure the facility is flowing water. He expressed that he does not want to stand in front of the landowners and say they have to do one thing or another, but it is his duty to in fact do something so that the facility is flowing water properly. He addressed the written and verbal responses that were received by the landowners who could not make the meeting. There were more responses of no than there were of yes to move forward. He said that his initial opinion is to go with the voice of no but there has to be an understanding by not doing anything, if things get bad and there become damages, the Trustees will have to take action right away.

Granzow then explained that there are tree roots in the tile, they can be left or they can be taken out. There are trees growing, they can be left or they can be cut down. He does not want to demolish the town, but it is his feeling the trees need to come out. If that means ordering an easement then they need to order one. The Trustees need to protect the facilities. The tree roots are going to keep growing and keep blocking the infrastructure and could cause more damage resulting in tearing up the entire title versus jet cleaning now.

The Trustees then opened the floor for discussion.

Landowners brought up cutting problematic trees down and then jet cleaning the tile. While discussing this option, Gallentine informed the landowners that jetting the tile is an option but depending what kind of jet is used, it could possibly damage the tile. There would also have to be an access point every 500-1000 feet which adds to costs. If the tile is damaged during the jetting process then there will be added costs for replacing the tile completely.

There was discussion on how much of the tile has roots blocking the flow of water. After reviewing the footage that was taken, Schlemme came up with an estimated 1000 feet of blocked tile. Roll then added that 1/3 of it has roots in the tile. It was discussed that if trees were cut, it was still very important to do something with the roots that are already in the tile.

Lining the tile through the urban area was discussed. Once the tile was lined, there would be no need to do anything with the trees because the lining would block the roots from causing problems in the tile. Granzow then stated that they are saving the trees in the district at the expense of the people who do not want the trees. The larger expense of this project is falling on the farm ground rather than the people in town. It was brought up classifying on assessed value rather than drainage benefit and it was discussed that there would have to be a petition and a possible election that majority of the landowners agree on. Schlemme informed the landowners that if this was something they wanted to do, it would be important to get legal advice.

It was then brought up by a landowner that if CGA is going to be making a report, he would like them to also look into how much it would cost to install a new tile to the side of Ionia Street. He wanted to compare the price of lining the tile to the price of installing new tile that is not under the roadway as repairing tile under the roadway is expensive.

5. Possible Action

Hoffman moved, Granzow seconded to instruct CGA to prepare a report and plans for a few different options.

- 1) CGA is to prepare a report and costs to partially and fully line the facility.
- 2) CGA is to prepare a report and costs to cut trees and clean the tile.
- 3) CGA is to prepare a report and costs to install a new tile to the side of Ionia.
- 4) CGA is to determine the current easement.

Hoffman informed the landowners that once CGA has completed the reports, another landowners meeting will be scheduled to go over the results. He also thought it would be beneficial for there to be a vendor who supplies the slip lining present to discuss and explain their products and educate both the landowners and Trustees.

6. Other Business

Hoffman thanked everyone who was present for partaking in quality, constructive dialogue.

7. Adjourn Meeting

Hoffman moved, Granzow seconded to adjourn the meeting. All ayes. Motion Carried.

Drainage District:

143

Investigation Summary:

- At the Hearing on Engineer's Report for Repairs to Upper End of Main Tile, the District Trustees requested an inventory of trees within the 50' of the Main Tile from the west end of town to the east end of town (i.e. west side of the golf course) be performed.
- CGA staff performed a site visit along the Main Tile route and found the following trees within 50' of the Main Tile (unless noted otherwise):
 - 3 Walnuts (28"-36")
 - 1 Buckeye (12")
 - 3 Oak (6"-36")
 - 12 Brush or Brush Lines
 - 1 Cedar (24")
 - 4 Blue Spruce (8"-15")
 - 13 Apple (2"-24")
 - 2 Honey Locusts (24"-36")
 - 10 Ash (10"-48")
 - 4 River Birch (24"-36")
 - 22 Soft Maple (2"-48")
 - 12 Hard Maple (8"-48")
 - 3 Mulberry (6")
 - 1 Boxelder (24")
 - 1 Sycamore (48") at 54' from tile

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

None as only investigation was performed

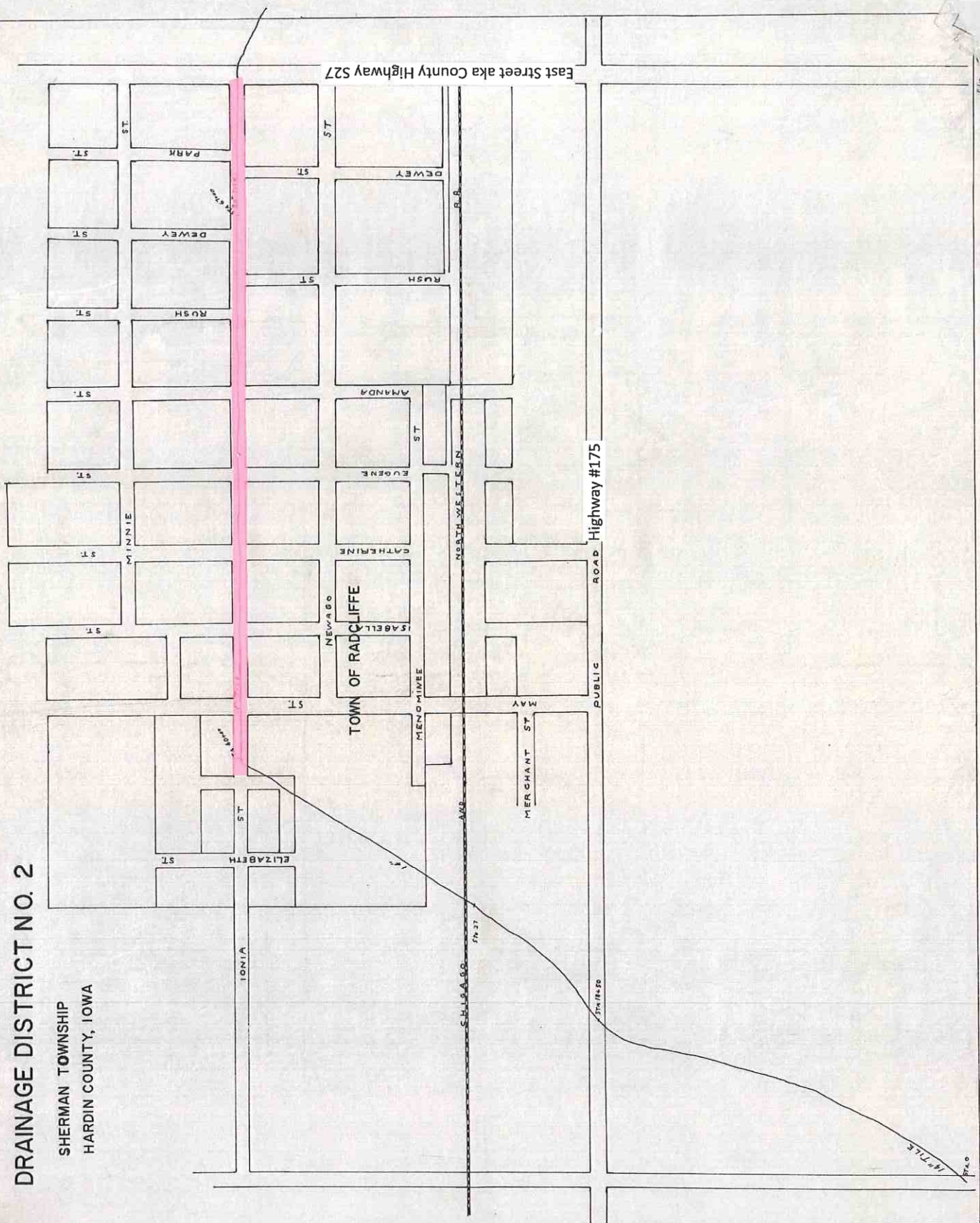
Additional Actions Recommended:

Although all trees are capable of producing tree roots which can negatively impact tile, the above yellow highlighted trees species are some that we typically find majorly impacting tile negatively. If the District Trustees do not pursue lining the Main tile, they may wish to pursue removal of at least the yellow highlighted trees as it is CGA's opinion that they will eventually (or may already be) negatively impacting the Main Tile. It is also our opinion that the cost of removal of just these trees would be over \$50,000. This cost is high enough that a hearing and engineer's report would be required.



DRAINAGE DISTRICT NO. 2

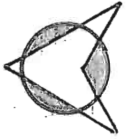
SHERMAN TOWNSHIP
HARDIN COUNTY, IOWA



100'

100'

NORTH



CITY OF RADCLIFFE, IOWA

ST Co. Rd. S-27

Golf course

trail

EAST

ST

PARK

ST

ST

DEWEY

ST

RUSH

ST

ST

MINNIE

ST

ST

ST

IONIA

ST

DEWEY

ST

ST

RUSH

ST

AMANDA

NEWAGO

EUGENE

MENOMINEE

CATHERINE

ISABELLA

IOWA HWY. NO. 175

IOWA

ST

MAY

CLEVELAND

ST

ELIZABETH

ST

MARSHALL

ST