

AGENDA

Regular Drainage Meeting

Wednesday, January 26, 2022, 9:30 A.M.

This meeting will be held electronically and in-person.

To access the meeting call: 1-(312)-626-6799, when prompted enter meeting

ID code: 820 7567 2007

You can also access the meeting online at:

<https://us02web.zoom.us/j/82075672007>

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

Documents:

12-29-2021 DRAINAGE MINUTES.PDF
2022 CANVASS MINUTES.PDF
01-18-2022 DRAINAGE MINUTES.PDF
12-08-2021 DD 56 LANDOWNER MEETING MINUTES.PDF

4. DD 128 WO 279 – Discuss W Possible Action – Change Order #5

Documents:

DD 128- WO 279 CHANGE ORDER 5 - CONTRACTOR AND ENGINEER
SIGNED.PDF

5. DD 128 WO 279 – Discuss W Possible Action – Completion Letter

Documents:

DD 128- WO 279 HANDS ON COMPLETION LETTER (WITH SIGNED PAY
ESTIMATE 7).PDF

6. DD 14 WO 290 - Discuss W Possible Action - Engineer's Report On Repairs Or
Improvements

Documents:

DD-14 WO 290 - ENGINEERS REPORT ON REPAIRS OR
IMPROVEMENTS.PDF

7. Discuss W Possible Action - New Work Order Requests

8. Other Business

9. Adjourn Meeting

REGULAR DRAINAGE MEETING**Wednesday, December 29, 2021, 9:30 A.M.****This meeting was held electronically and in-person.**

12/29/2021 - Minutes

1. Open Meeting

Hardin County Drainage Trustee Renee McClellan opened the meeting. Also present were Trustee Lance Granzow; Jolene Pieters, Auditor; Lee Gallentine of Clapsaddle-Garber Associates; and Michael Pearce, Network Specialist.

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 of Drainage Meeting dated 12-1-21. Second by Granzow. All ayes. Motion carried.

4. DD 121 WO 295 - Discuss W Possible Action - Contractor Update

Gallentine stated that Seward is finishing up construction. Gallentine stated he is pretty much done overall he might have to come back in spring and do some touch ups just on the dirt type of thing finishing this late in the year. Gallentine stated that he will get the reports as soon as it is done. McClellan stated she was ok with that. Granzow asked if we pay any partial time on that. Gallentine asked what he meant by partial time. Granzow stated he meant with the billing, he would like to know if we wait until it is completely done or pay a portion of it up front. Gallentine stated he would pay most of it when he bills it and maybe hold five percent. Gallentine stated there is no reason not to pay a majority of it when he bills it. Granzow said he was fine with that. Granzow asked if that was a repair. Gallentine stated yes, there is no pay estimates.

5. DD Big 4 Main WO 318 - Discuss W Possible Action - Update

McClellan asked if anyone knows what that is. Gallentine stated he did not know, is Kuechenberg not there. McClellan stated that Kuechenberg is not here with us today. Gallentine stated he would assume it might be a carry over from last week. Gallentine stated weren't you guys talking about beaver trapping. Granzow stated that is right. Granzow stated he knows what this one is about. Granzow stated that Austin has pulled his traps and he sees no sign of the beaver. Granzow stated the dam should be ready for removal. Gallentine stated, ok. Gallentine asked if the Trustees wanted CGA involved with that or if they just want someone to do it. Gallentine stated it is your call. McClellan asked who we usually get. Granzow stated he thinks it's usually Adam Seward. Gallentine stated he thinks Adam or Paul Williams. Gallentine stated he does not know if Paul has the equipment to handle that. Granzow stated that we should have Kuechenberg contact Adam. McClellan stated she is ok with that.

Motion by Granzow to have Kuechenberg contact our lottery to remove the beaver dam. Second by McClellan. All ayes. Motion Carried.

6. Discuss W Possible Action - New Work Order Requests

7. Other Business

Gallentine asked if anyone has heard anything about when the carbon line meeting has been rescheduled for. McClellan and Granzow stated they have not heard anything. Gallentine stated he was trying to keep an eye on it but he has not heard anything. Gallentine asked the Trustees to let them know if they hear anything.

Granzow stated that there were 8 people from DD 56 that were trying to pay ahead. Granzow stated that Kuechenberg has reached out to all of those people. Granzow stated he would prefer if the money was in by today. McClellan stated she did not know how they were going to get that word out to them. Granzow stated that Kuechenberg has been in contact with them. Granzow stated our Treasurer does not want the money to come in at the last minute. Pieters stated Kuechenberg sent those out on Monday. Granzow stated that he would like to

thank our Drainage Clerk and Treasurer for this. Granzow stated it is not something they have to do but they chose to so they can support people in this district. McClellan stated she agreed.

8. Adjourn Meeting

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

CANVASS OF 2022 DRAINAGE ELECTIONS

The 2022 Drainage Election was canvassed by the Board of Supervisors, BJ Hoffman, Renee McClellan with Drainage Clerk, Michelle Kuechenberg present, on Tuesday, January 18, 2022 at 1:00 P.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 2022 Drainage Election held on the 18 day of January, 2022, as shown by the tally lists returned from the election precincts.

Drainage District 3 Trustee. There were 3 votes cast as follows:	Dennis Prochaska received 3 Votes
Drainage District 4 Trustee. There were 5 votes cast as follows:	Jo. A. Duncan received 5 Votes
Drainage District 16 Trustee. There were 3 votes cast as follows:	Kenneth Butt received 3 Votes
Drainage District 18 Trustee. There were 3 votes cast as follows:	Everett Harms received 3 Votes
Drainage District 39 Trustee. There were 6 votes cast as follows:	Dean Stalzer received 6 Votes
Drainage District 45 Trustee. There were 2 votes cast as follows:	Jared Neubauer received 2 Votes
Drainage District 55 Div 1 Trustee. There was 1 vote cast as follows:	Dean Schnormeir received 1 Vote
Drainage District 55 Div 2 Trustee. There was 1 vote cast as follows:	Larry Hindman received 1 Vote
Drainage District 76 Trustee. There were 2 votes cast as follows:	Brad Schutt received 2 Votes
Drainage District 98 Trustee. There were 4 votes cast as follows:	Harold Roske received 4 Votes
Drainage District 110 Trustee. There were 3 votes cast as follows:	Dean Schnormeir received 3 Votes
Drainage District 130 Trustee. There were 4 votes cast as follows:	Russell Smith received 4 Votes
Drainage District 148 Trustee. There was 4 votes cast as follows:	Kenny Smith received 4 Votes
Drainage District 165 Trustee. There were 2 votes cast as follows:	Kenneth Kuper received 2 Votes

Chairperson

Board of Supervisor

Board of Supervisor

ATTEST:

County Auditor

REGULAR DRAINAGE MEETING**Tuesday, January 18, 2022, 11:30 A.M.****This meeting was held electronically and in-person.**

1/18/2022 - Minutes

1. Open Meeting

Hardin County Drainage Chairperson BJ Hoffman opened the meeting. Also present were Trustee Renee McClellan; Trustee Lance Granzow; Lee Gallentine of Clapsaddle-Garber Associates; Deb Lavelle; Michael Pearce, Network Specialist; and Michelle Kuechenberg, Drainage Clerk.

2. Approve Agenda

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

3. DD 128 WO 279 - Discuss W Possible Action - Change Order #5

Gallentine stated he thought he had Dean Bright's phone number and he did not. Gallentine stated that he gave Dean a call this morning and left him a message, he has not heard back yet. Gallentine asked if the Trustee's wanted to table it until he gets a reply from Dean.

Motion by Granzow to table Change Order # 5. Second by McClellan. All ayes. Motion carried.

4. DD 128 WO 279 - Discuss W Possible Action - Completion Letter

Motion by Granzow to table Completion Letter. Second by McClellan. All ayes. Motion carried.

5. Discuss W Possible Action - New Work Order Requests

6. Other Business

Hoffman stated that he has talked to Gallentine, Steve and Brent Perry about DD 102 reclassification. Hoffman stated he wanted to discuss the inquiry just so it is on the record. Hoffman asked Gallentine if he wanted to explain. Gallentine stated that was fine. Hoffman stated that Steve and Brent Perry both contacted him, they were asking where the reclassification was in the process. Hoffman stated, that wetland, they believe they should have little to no assessment because it is perpetual wetland now and the percentage of benefit would be small. Hoffman stated they wanted to know where we were at in the process and if he agreed that their assessment should be next to nothing. Hoffman stated that he contacted Gallentine and he said they're working on it, Gallentine has not talked to the other commissioners yet. Hoffman asked Gallentine if that about sums things up. Gallentine stated that does sum it up. Gallentine stated that he tends to agree with their thoughts on the process, typically a wetland would receive little to no AG Drainage benefit. Gallentine stated that he is just one of three members. Gallentine stated that he is hoping to have it wrapped up within the next month. Granzow stated and when they present it to us we have the option to send it back, our recommendation. Gallentine stated that the Trustees always have that option.

7. Adjourn Meeting

Hoffman asked for recess until the rest of the Drainage election results arrive. Motion by McClellan to recess. Second by Granzow. All ayes. Motion carried.

DD 56 Landowner Meeting
Wednesday, December 08, 2021, 10:30 A.M.
This meeting was held electronically and in-person.

12/8/2021 - Minutes

1. Open Meeting

Hardin County Drainage Chairperson BJ Hoffman opened the meeting. Also present were Trustee Renee McClellan; Trustee Lance Granzow; Lee Gallentine of Clapsaddle-Garber Associates; Sharon Larson; Greg Larson; Mike Bostrom; Kevin Sheldahl; Matt Topp; Mike McCartney; Jon Kuhfus; Lynn Holechek; Jim Sweeney, Forterra Inc.; Jeremy Maas, Gehrke Inc.; Randy Fahr; Michael Pearce, Network Specialist; and Michelle Kuechenberg, Drainage Clerk.

2. Approve Agenda

Motion by Hoffman to approve the agenda. Second by McClellan. All ayes. Motion carried.

3. Introductions/Attendance

Introductions were made and attendance verified.

4. Discuss W Possible Action - Contractor Update - Price Increase

Hoffman stated we are here to discuss with possible action contractor update with price increase. Gallentine stated if you take a look at the handout with the green and red colored words, he tried to do a side-by-side comparison of the costs that we've discussed at previous meetings and the new costs that the supplier is requesting. Gallentine stated that the green lettering is what we talked about prior to, and the red is what has either occurred or what is being proposed. Gallentine stated, as you can see the contractor price has increased by 10%. Gallentine stated that there is a letter from Forterra, the primary supplier on this job, it talks about the problems they're having with steal labor and supply chains and all of that. Gallentine stated that Gehrke communicated that his fuel and labor has changed, they're requesting an additional 10%. Gallentine stated that if you move down to CGA, we're not requesting anything additional for the actual project, but they did go out and negotiate easements. Gallentine stated that the one thing we really did not know about until right now was the right of way easements and crop damages. Gallentine stated those have all been settled now, the total of that was right around \$119,000. Gallentine stated when I gave this all to the district Trustees, they said, "that sounds great", "let's have a meeting." Gallentine stated that is where we are all at today. Hoffman asked if any of the landowners had any questions at this point. Greg Larsen, a landowner, asked what they were contractually obligated to do. Gallentine asked, as of right now? Gallentine stated as of right now, if everyone says that they do not want to do go forward with this project, Gehrke is due \$8,000. Gallentine stated that he believes all of which 10% of that has already been paid for. Larsen stated, basically if we say no to it, then we throw the bid and say everything is done, do we have to rebid it? Gallentine stated that he did not know if the district would get a better price if they rebid it. Larsen stated he was just asking what he was contractually obligated for. Gallentine stated that would be \$8,000 of which you already paid 90% of. Gallentine stated that you would not owe anything to Forterra. Gallentine stated the only thing you would owe us for is whatever we have into it up to this point. Gallentine stated rebidding is always an option if you want to. Gallentine stated the current environment we are in with material prices and labor shortage the way they are the district would not get it any cheaper if they rebid this year. Gallentine stated maybe in 2 or 3 years from now. Larsen stated that he did have a problem with that. Larsen stated that they have 160 acres on the west. Larsen stated with this new price, the 160 acres will be almost \$110,000. Larsen stated when we did approval to start engineering on this, it was very clear that the easements was a go or no-go issue. Larsen stated he suggested that we start working on it then but there was no interest from the Trustees or the Engineers. Larsen stated so we go through the engineering, and we get approval to go out and bid the project in March, then we decide that is the time to start working on the easements. Larsen stated it has taken almost a year or beyond that. Larsen stated when we bid the job we knew we were in a rising price environment, now we're in a raging inflation environment. Gallentine stated he will let the Trustees speak for themselves, but CGA works at the Trustees discretion. Gallentine stated when they told us to go out and negotiate easements, that's what they do.

A landowner stated he was curious about the easements and how many acres he had to pay for. Gallentine stated for a permanent easement it will be 21 1/2 acres and temporary easement is 10 1/2 acres. Gallentine stated so total there was 32 acres. A landowner asked what the difference between a permanent and a temporary easement was. Gallentine stated, a temporary, they're going to need a certain amount of room to construct it but long term they do not need to maintain it. Gallentine stated so that is the difference, permanent is what we're going to need

to maintain it after it gets built, temporary is the additional room they need to get in and out. A landowner asked if there is a breakdown of who that all includes, a price of each one. Gallentine stated there were four landowners that got easements. Larsen stated he thought there were three landowners and four parcels. Gallentine stated that was correct, three landowners and four parcels. Gallentine stated the first parcel was owned by Four Winds Family Farm. A landowner asked who that was. Gallentine stated he was out in Missouri. Gallentine stated that the easement was \$10,286 and the abstracting costs were \$150 dollars. Gallentine stated that he believes they got crop damage or restoration of fences for \$6,134 and then the tenant was paid \$100. A landowner asked how many acres that was on. Gallentine stated that was on 1.1 acres temporary and 2.74 permanent. A landowner stated, so about \$10,00 an acre. Gallentine stated that you're getting 3.8 total, so it isn't really \$10,00 per acre. Gallentine stated next, we have Radland Farms, the easement was \$23,623.05, abstracting was \$150, the tenant was paid \$100. Gallentine stated, finally, crop damages were \$9,872.55. Gallentine stated that the tenant for Radland Farms has changed. A landowner asked how many acres that was on. Gallentine stated that was 6.18 permanent and 3.09 temporary. Gallentine stated the next one is Bostroms, 6.12 permanent and 3.06 temporary. Gallentine stated the easement for Bostrom was \$23,393.70, abstracting \$150, and crop damages \$9,776.70. Gallentine stated the last one was track 4 Radland, 6.48 permanent and temporary 3.24. Gallentine stated that the easement was \$24,769.80, abstract \$150, crop damages \$10,351.80, and tenant agreement \$100. Gallentine stated Radland Farms has since transpired hands. Kevin Sheldahl asked if it was \$2,300 an acre. Gallentine stated he does not have the breakdown of what they were paying for temporary versus permanent. Gallentine stated all of those prices ran through the Trustees, they're based off of comps. Gallentine stated that he believes at the last meeting we just had there was one that just sold in the neighborhood not too long ago for \$12-14,000 an acre right before that meeting. Gallentine stated that he believes they used 1/4 of that price. Gallentine stated if you get comps today, he is sure they're higher. Gallentine stated at the last meeting we were all here there were questions if we would even be able to get the easements. Gallentine stated we didn't know if we would have to pay full ground price 14-15,000 an acre, or if people would say flat out no. Gallentine stated that there was not anyone who said flat out no. Gallentine stated that they all agreed to the price per acre that the Supervisors approved. A landowner stated that it was about 3-4,000 per acre for the permanent, is that right. Gallentine stated if you did the math, I believe you. A landowner asked what the grand total was. Gallentine asked what grand total the landowner was referring to. Gallentine stated the change is about \$243,000, percentage wise it is about 22% change. Gallentine stated you have to remember, if the project was going to move forward, the easements had to be obtained either way. Gallentine stated we just didn't know the costs of the easements. Gallentine stated we're kind of melting two things together, the price changes for contractor materials and adding the costs of the easements which we know now.

Kevin Sheldahl asked if there was going to be any more increases after this. Gallentine stated the landowners should talk to Jeremy. Gallentine stated his prices will not increase. Jeremy stated that his updated prices since March are on the cost sheet in the red. Jeremy stated that if you look at March's bid and compare it with today's bid, it's not quite 10%. Jeremy stated if this gets approved today, the prices will not increase again. Jeremy stated that prices are changing so fast that just in his AG tile they will not give him a price for more than 7 days. Jeremy stated every time he buys tile it is a different price. Jeremy stated, and fuel, we're all on the same boat on fuel. Jeremy stated when we originally bid this job in March, he had enough fuel booked to do this project as we bid it. Jeremy stated since then we're out March of next year, along with labor and everything. Jeremy stated that Forterra has been more than accommodating, if you read their letter here, they specifically state a minimum of 10% increase because they do not know. Sheldahl asked if we're still using concrete. Jeremy stated that we plan on it. Gallentine stated that from his understanding plastic is worse as far as the prices go. Jeremy stated that he wouldn't lay plastic for this project because of the depth. Jeremy stated that he originally bid this project with dual wall and the prices bid accordingly for the rock. Jeremy stated that he would not put dual wall in the ground when you're this deep. Gallentine stated originally when we bid this project there were four people who bid it. Gallentine stated that the other three did not bid it with plastic, Jeremy was the only one who bid it with plastic. Jeremy stated that he bid this project with plastic because of the rock. Jeremy stated that you have to put rock in there. Jeremy stated that he had one big job up in Humboldt County a few years ago, where they put big tile in, it was plastic. Jeremy stated that you have to have rock on it or it will fail every time. Jeremy stated that was his opinion off of experience.

A landowner stated he was referring to the postcard he received in the mail, it looks to him like everything has been approved, the landowner asked what took so long between the bid and now with the price increase. Kuechenberg and Gallentine stated it took time to negotiate the easements. Greg Larsen, a landowner, stated they didn't start on easements until the project was bid. Gallentine stated the easements were started after the project was bid on. Larsen stated that was a no-go/go issue when we released them for engineering. A landowner asked who was responsible for the easements. Gallentine stated CGA negotiated the easements. A landowner stated this price increase is on CGA. Gallentine stated it was not. A landowner asked why CGA did not have it in order that it would have gotten done faster. Gallentine stated they work in what they're authorized in. Gallentine stated the District Trustees authorized plans, specs, bid letting, and then they authorized the easement negotiations. Gallentine stated CGA did not proceed with easement negotiations until they were authorized to do it. Gallentine stated that another thing that took so long to negotiate these easements was that two of the three owners were out of state. Gallentine stated one of the parcels they ended up transacting through the easement. Gallentine stated

this is not something that you can just go through in a weeks' time, this process takes time. A landowner asked if they started on that process before the bid was started. Gallentine stated the bid was started first. A landowner asked who authorized it. Gallentine stated everything goes through the District Trustees. Gallentine stated CGA does not just go out and do stuff without authorization. Larsen stated, "just a general point", "we're new to this". Larsen stated they've never been in a drainage district until now and he guesses they picked a real interesting one to get involved in. Larsen stated CGA seems to be very well suited for maintenance out there of inlet blow out or whatever, but when you get into a project like this, is there anyone in the County who has prime project management responsibilities. Larsen added someone who worries about these jobs, whether or not the job will be completed on time and within budget. Hoffman stated he would answer that. Hoffman stated on his behalf, he is not a subject matter expert in drainage or drainage tiles even construction project management. Hoffman stated Iowa Code dictates that the Drainage Trustees shall maintain the facilities. Hoffman stated Iowa Code also says that upon petition that the landowners can take control of their own district and manage the facilities. Hoffman stated upon doing that, you would become the subject matter expert and the construction manager. Hoffman stated it is not his expertise, he does not have a degree in it but at the same time, that is why we have a Drainage Engineer that we work close with. Hoffman stated he thinks we have great contractors in the area that are very qualified in it, but at the same time to have the foresight to know what inflation was going to do and that a pipeline would shut down so we can not get reasonably priced fuel that we would maintain entitlement programs that would hinder people from wanting to go to work. Hoffman stated all of those factors, factor in. Hoffman stated that not just on Jeremy, but Forterra and CGA, if you own a business you're impacted by it. Hoffman stated that he would not make an excuse, he is just telling the landowners how it is from his perspective. Larsen stated he does not fault the contractor, we held him off for an extremely long period of time. Larsen stated he knows it is not really black and white but much of this could've been avoided in terms of project management. A landowner stated thing's just got put off long enough and they were going to cost more, we know that. The landowner stated the biggest thing he did not know is what the easements were going to cost and now he knows that. A landowner stated some of these farms have changed hands, are the easements still in place? Gallentine stated that the easements are still in place and the new tenants have already locked in the crop damages. Gallentine stated he gave those amounts earlier. A landowner stated so when you purchase land with an easement the new owner is aware of the easement. Gallentine stated that new owners know about it and they've signed documents agreeing to it.

A landowner stated so we have all of the facts now, so we just have to decide if we want to spend the 20% increase? Jeremy stated that is where we're getting confused. Jeremy stated his price increase is just under 10%. Gallentine stated let me make things simple. Gallentine stated he put both issues on one page, Gehrke's increase is on top. Gallentine stated that is roughly 10% for the change in material, fuel, and labor. Gallentine stated that if you flip to the bottom half, that's where I put CGA's easements and crop damages. Gallentine stated, really they're separate issues, I probably should've put them on different pages. Kevin Sheldahl asked if you take the easements out of there, what is the increase of the project from Gehrke's side? Gallentine stated that it is about \$100,000 increase for just the contractor. Gallentine stated that the change with both contractor increase to easement negotiation is about \$243,000. A landowner asked how close Gehrke will come to his bid. Jeremy stated a bid is a bid. Jeremy stated that all depends on if we decide today, we cannot wait another week or two. A landowner asked if the estimate is going to come in at the depth it is or deeper. Gallentine stated that it is two feet deeper. Gallentine stated that is the add item. Gallentine stated that the add item is \$1.10 a foot, that went up by a dime a foot. Jeremy stated that you can save some money in there if you want. Jeremy stated that there is four. Gallentine stated, "Jeremy you shouldn't go there." Jeremy stated he is not trying to speak out of line. Gallentine stated he should go ahead and say what he wants. Jeremy stated that there were two options that the landowners could go without on the current contract, that would take off roughly \$50,000. Gallentine stated, Jeremy is referring to the following add on items in the contract: (1) CCTV Inspection of Tile (put a self propelled camera in the tile to get a video of it after installation), and (2) Trench Compaction (we added it to this contract because of the depth). Gallentine stated they are both \$23,000 items. Gallentine stated that if you eliminate both items, you could save \$48,000. Gallentine stated the other thing that goes along with that is we have Mandrel and CCTV Access Point (Mandrels every so often so they could get in with their camera and access), that is about a \$25,000 item, however, landowners negotiated them in with the easements. A landowner asked if it was the new landowners or the old landowners. Mike Bostrom stated he negotiated that in his agreement. Gallentine stated that right now, you can take off \$48,000 if you don't televise it and you don't do the trench compaction. Kevin Sheldahl asked what we get with the televising. Gallentine stated that you get essentially a baseline to look at it right after installation so that 10 years down the road, you can compare. Gallentine stated that at this depth you never know. Gallentine stated that there is a two year warranty on this project. Gallentine stated that televising just gives you that baseline, you can never be too careful at this depth. Gallentine stated let's say in 6 months you start having problems and you call Jeremy to have him fix it, and he'll say he doesn't know if that is their fault. Gallentine stated he will still pick it up. Jeremy stated that they would still pick it up if he misses some tile. Jeremy stated that there are times where they just miss one. Kevin Sheldahl asked how many hook up tiles are part of the contract. Jeremy stated that it was private tile connections, item number 5. Jeremy stated there is 10 of them. Gallentine stated that here is the thing on this depth, lets say we cross the 4 inch, if he was a landowner he doesn't know if he would want to hook up to something that is 20 foot deep. Gallentine stated they anticipated 10, they do not know how many are out there for sure. Kevin Sheldahl asked if that changes the price if there was 20 private tiles that needed to be hooked up. Jeremy stated he only gets paid per tile he connects. Gallentine stated that I think when

he says his prices are not going to change, he is referring to his price per unit. Gallentine stated so the price for tile connection will not change and the price per foot on the pipe. Gallentine stated if we have to install 100 feet less, than the price will be minus 100 feet of tile.

Greg Larsen asked if we release Gehrke now, when would this work be done. Jeremy stated the earliest they can start this project is March 1st, that is to get pipe on the ground. Kevin Sheldahl asked if Gehrke is planning on starting it this spring or next summer. Jeremy stated they will try this spring and see what the weather does. Larsen stated that he was just wondering because he did not know if Gehrke could start this year yet and eliminate some of the crop damage. Gallentine stated that the crop damage payment includes future crop loss due to the depth. Most landowners were concerned that this was just a one year thing. Larsen stated while you're talking about easements, at one of the meetings there was a discussion about how all of these easements are going to be distributed and someone brought up that the west district should pay for all of the easements. Larsen asked how they were going to be distributed. Larsen stated that was contrary to everything they were told. Granzow stated that he believes the depth difference was going to be assigned to the west. Larsen stated that the only thing that was going to be assigned to the west as an extra was additional depth. Larsen stated that was what everyone made their decisions on and then at one of the meetings the idea was floated to let the west pay for all of the easements. Granzow stated if he remembers right, that was discussed and what was said was that both sides were benefitting from it so the only additional cost was the depth for that portion. Larsen asked if the easements would be split. Granzow stated that they would be if he is remembering the conversations that they had correctly. Larsen stated that he went back and read the notes and it didn't seem like a decision was made and that was why he was asking. Granzow stated that the only thing he recalls with the extra depth was that it's only benefitting the new portion. Gallentine stated that the extra depth is about \$5,000. Kevin Sheldahl asked if the project would be done by next fall. Jeremy stated that he would like to move the completion date just one year because we are all unknown, but his personal goal along with Forterra is to start early spring. Jeremy stated he would love to start it February 1. Jeremy stated that you have to be careful with concrete pipe, the dirt likes to freeze to the pipe when you set it on the ground so it takes about an hour to get the frost off. Jeremy stated there is a lot of grey areas there, he does not want to speak out of line but his goal is to start in February and be done before spring. Kevin Sheldahl asked if we could have this tile working next summer. Gehrke stated maybe. Gehrke stated that he will take advantage of being in a drought when there is not much water running in the tile. Jeremy stated he has no idea what the ground conditions are like, so that is a wildcard for him. Jeremy stated that he would love to do it, sooner than later but 48 inch pipe takes a while to make. Larsen asked the Trustees if the easements have been paid. Hoffman answered yes. Sheldahl stated the easements have already been paid up. Bostrom asked if they had totals. Granzow stated he did not have a total. Granzow stated you would have to ask Kuechenberg for a total up to this point. Kuechenberg stated she would get a total for whoever wants it just to let her know after the meeting. Gallentine stated \$30,000 has been spent for the right of way negotiations and \$20,000 for engineering costs at this point. Gallentine stated that we also did a reclassification reports and hearings, none of that is in this. Gallentine stated he does not have the totals for those. Kuechenberg stated if anyone wants those totals they can come to the courthouse after the meeting and she will print off a current report. Larsen stated he thought the reclassification was \$12,000. Gallentine stated that it could be, he did not recall. Sheldahl asked if the end cost was \$1.38 million. Gallentine stated that it will not be because we have reclassification and interest on the warrants. Sheldahl asked how much interest would be on there. Gallentine stated that it would be however it takes between the bills being paid out and the assessments. Sheldahl asked CGA's bills are all figured in as of right now. Gallentine stated that the estimate is just for this project. A landowner stated that if we walked away from this project today, he thinks they would have \$200,000 into it and for nothing. Granzow stated that the \$200,000 was spent for earlier projects. Larsen asked if the easement and engineering would be taken care of. Larsen asked Gallentine if the report was good for 10 years. Gallentine stated the report is good for 10 years, if everyone decides they do not want to move forward with the project today and would like to come together 4 years from now the report could be brought out with a cost to update it. McClellan stated that the costs will not be the same. Gallentine said they will not. Gallentine stated in 10 years even 5 years from now. Hoffman stated they will not be the same next week.

A landowner asked if Gallentine could remind him what they were going to do with the intake at the end of this project. Gallentine asked if the landowner was referring to the north or the south. Kevin Sheldahl stated it was at the south end. Gallentine stated he's going to go check that but he thinks there should be an intake there. Kevin Sheldahl asked what they were going to do with it, tie it with the old. Gallentine stated that there is a 12 inch intake at the road. Gallentine stated that they're going to re-shape the road ditch so the surface water is direct with that intake. Gallentine stated that the intake will be connected to the tile. Jeremy stated, "yes", "but only a 12 inch." A landowner asked if that was deep enough to take care of that surface water, if they did the research. Gallentine stated that was deep enough to carry normal surface water. A landowner asked why they weren't going with a 24 inch. Kevin Sheldahl stated there was a huge intake right up the road. Sheldahl stated that all of the water just drops right in to the large intake up the road. Jeremy stated that you have to be careful with that because all of the dirt that runs in there. Gallentine stated that we typically put a hickenbottom then large rock around that. Gallentine stated the hope is that when water runs in it sinks into the rock, it doesn't have to go all of the way to the surface. Gallentine stated with all of that being said, if you get too big of rain, it isn't going to handle it. A landowner stated, from his point of view, we have to do all we can to get this new tile because we are helping pay for this new tile to

drain west and we are going to maintain 100 year old tile to the east. He added that he wants as little water as possible to come from the other side to his tile. Gallentine asked if he wanted the upper end to essentially be shifted. The landowner stated he did not want to be upset a year from now, he would prefer that they put in a huge intake now and be done with it. A landowner asked what size intake was included in this current bid. Gallentine stated a 12 inch. A landowner asked if that was determined by CGA, if that would be enough. Gallentine stated he did not say that, it should be enough to take on a normal flow of surface water. Gallentine stated if we get Cedar Rapids rain, 08 or whatever year that was, nothing is going to be able to handle that. Gallentine asked if they wanted something other than 12 right now would be the time to talk about it. Gallentine stated at the end of the day it is their fields that are affected and not his. A landowner stated that Gallentine is the smart guy. A landowner stated what if they did 3 12 inch intakes. Sheldahl stated if we do 3 12's then the people that wanted them can pay for the extra's to be put in. Gallentine stated that they are \$1500 each. A landowner asked is that current or the old price. Gallentine stated that was the new price. Sheldahl asked why wouldn't you just put a bigger one in instead of the three. Sheldahl stated you could use a grate instead of a hicckenbottom. Gallentine stated that he does not care for the grates, corn stocks can cover them up. Gallentine stated that grates tend to plug. Sheldahl stated that it all comes down to how big of a hole you have. Gallentine stated he thinks the biggest hicckenbottom is 18inch. Jeremy stated he has never bought anything bigger than a 12 inch hicckenbottom. A landowner stated that he is just blown away that we are talking about putting in a hicckenbottom, he thought with this size project we would do something different. Jeremy stated there are lots of options. Gallentine stated that for this intake, we do not know for sure if the existing tile is in a road ditch or not but we want to put the intake in the road ditch. A landowner stated that makes sense. Gallentine stated if the existing tile is in the road ditch we'll hook it right on top, if not, then we have to put an intake of some kind in and run it over. Sheldahl asked what size tile is right up to the end of the line. Gallentine stated it was 48. Jeremy stated that the whole project is a 48 inch. Sheldahl stated so we're going from a 28 to a 48, that is a huge difference. Gallentine stated that we're taking a 28 and putting in a 48, granted that 48 is a heck of a lot flatter than what that 28 is. Sheldahl asked what grade are you putting it on. Gallentine stated 22.4. Sheldahl stated the 28 is right in that area and it is really flat. Sheldahl stated that if you map it all out, in that area, there is only one 10. Sheldahl stated that if you put a 24 intake in that ditch, you would not affect that tile one bit. Bostrom stated, in his mind, will by taking all of that water north and not coming down the other way, will we eliminate the flow of the river for about 5 days? Sheldahl stated that he's watched this, if you get a big rain you don't have a river, there is no water. Sheldahl stated the river comes 12-18 hours later because all that water is going through the tile. Bostrom stated his question is, wouldn't it be a huge difference of groundwater, of a river flowing on the ground after a 2-3 inch rain. Sheldahl stated if you it would be huge. Sheldahl stated that if you get that water in the tile that would be huge. Sheldahl stated you would have a gigantic relief. Bostrom asked Sheldahl if he was for this project because he said earlier that he is not going to get a great advantage out of all of this. Sheldahl stated that where they have their real drainage problem, they are the highest piece of ground in the whole thing and we're about to get nothing. Sheldahl stated that when you're on the top end the coefficient from the tile that goes through neighboring farms is nothing. Bostrom asked if Sheldahl was against it then. Sheldahl stated that he was for it, he will get an advantage from his property on the east. Sheldahl stated that you have to start somewhere and we cannot do the entire project at once. Sheldahl stated we will start here and then eventually he thinks they should run the tile another three eighths of a mile. sheldahl stated that if you pull out an original map that shows the grades of the ground, that's running really flat, on top is where all the water goes. Sheldahl stated that all of the mains are dumping in to that three eights of a mile stretch. Sheldahl stated there is so much water going in there that it just starts blowing out of the main. A landowner asked if anyone is going to oversee what Gehrke will be doing. Gallentine stated that CGA will be out there observing everyday. Hoffman stated that part of what they do as they observe they're shooting depths and that is all recorded and added. Sheldahl asked what the real advantage to running the camera was besides the peace of mind. Jeremy stated nothing. Jeremy stated you can't see anything besides the joints. Gallentine stated that the bid item was in there for concrete and plastic both. Gallentine stated that for plastic tile there are a lot more advantages because you can see the deflection. Gallentine stated that concrete tile is a lot more bullet proof due to the insulation. A landowner stated that we should forget the camera because Jeremy is the best in the business and he will not scruce up. Jeremy stated that he is a confident person but he does scruce up. Jeremy stated that if he does miss a tile on a hookup or something he will come back and fix it. Jeremy stated if that is the case they will use speed grout. Jeremy stated that speed grout hardens in like 3 minutes time depending on the temperature. Jeremy stated that it has a really nice seal so it is smooth on the inside, nothing is hanging in there. Jeremy stated that would be a reason you would want a camera because it is not the contractor. Sheldahl asked how big the pipe was. Jeremy stated that it was 48 inches, it weights 8,000 pounds per piece of pipe. Sheldahl stated that he did not want to waste the \$23,000 for the camera because if there is a problem within 2 years they will come back and fix it. Gallentine stated so what he is hearing is if things move forward they do not want to do the televising afterwards. Gallentine asked what about the trench compaction? Gallentine stated normally you just kind of roll in there and do the best you can but it might be something you need. Sheldahl asked if it does dip, then what? Jeremy stated that he would come back and fix it within reason. Sheldahl asked if Jeremy charged for that. Jeremy stated that it would be in his 2-year maintenance. Gallentine stated if a landowner comes out a week after he finishes and wipes that clean a week after he finishes it, then the landowner brought some of that on himself. Gallentine stated you have to give it time to do its thing. Jeremy stated that their normal install is that they keep what they can black separated from clay then. Jeremy stated they leave a foot and half hump that is farmable and drivable but that is to allow for settling in the next year. Jeremy stated that he has a two to four year contract for a reason, last year they

drove to Humboldt because they missed two tiles, it finally showed its head 2 years later because it quit raining. A landowner asked Jeremy if the compaction is worth it. Jeremy stated he did not think so but if the landowners wanted to, they can. Jeremy stated that in this situation, we're only pushing 90% compaction anyways. Jeremy stated we're not building a road. Gallentine stated that was another thing, in addition to paying for compaction, Jeremy is also going to be paying for someone to come out and test it to verify that they actually compacted it. Gallentine stated that there are certain engineers that say AG tile installation is just as important as the sanitary sewer in town and you need to pack it the same way you would a street. Gallentine stated that he doesn't always agree with it but he threw that option in there so the landowners can decide. A landowner asked if trench compaction is needed at this depth. Jeremy stated that he will try and use a trench box but if he remembers right, they have 300-foot easement to work with, so 150 foot on both sides and that not might be enough room on both sides. Jeremy stated it all depends on soil conditions.

Gallentine stated he would also like to know about the intake because he wants to make sure they're meeting the landowners' expectations and it is a huge portion of this project cost. Gallentine asked if they were thinking multiple 12-inch hickenbottoms or are they thinking flat top. Sheldahl stated that they will get a lot wider if a 24 inch is put in vs 2 12's. A landowner stated that he agrees, but they were only going to put one 12-inch. Sheldahl stated that with a 24-inch tile they can make the holes a little bigger, they wouldn't have to make them so small. Gallentine asked if that's what they want to go with, the last thing he wants is for them to buy a car and not like the bumper sticker. Gallentine stated that this is going to be a visible sign, they will see it when they drive by. Sheldahl stated that they have a point but if you're doing something with that much volume of water, he understands the dirt thing, if you get a good rain a 24-inch tile will flush that right out. Gallentine stated that he agrees, he just wanted them to be aware of the pros and cons. Gallentine stated that hickenbottoms get plugged up too. Jeremy stated that just so we're clear, we can make a decision and I can give you a price based on some assumptions, but we really do not know where this last manhole is going. Jeremy asked the Sheldahl if he wanted the intake right on top of the 48-inch. Sheldahl stated that you can't do that. Jeremy stated, right because we do not know where this existing tile is yet. Sheldahl stated that you're going to have to tee off from the 24-inch to the ditch. Jeremy stated that you really won't be able to see anything in this intake. Sheldahl stated he knew that. Jeremy stated he just wanted to make sure that they knew they wouldn't be able to look in and see the water. A landowner stated that they're going to concrete over the other one up the road Sheldahl was talking about earlier. Sheldahl stated you do not want to do that. Sheldahl stated that you be your mistake because all of that water will roll right over.

Gallentine stated, just to clarify you're thinking a 24-inch intake with a concrete structure with a metal top with decent sized openings. Sheldahl stated that way they won't plug up all of the time. Gallentine stated we'll say about half a size of a sheet of paper. A landowner stated he'd like that better than the current option. Another landowner stated they should just custom make it. Gallentine stated we do not have a price for that. Gallentine asked Jeremy if he wanted to throw something out there. Jeremy stated he did not want to price it, he does not know how far they're going from that last 72-inch structure to wherever we're going. Jeremy stated we might have to wing some footage in there because we do not know where the existing tile is. Jeremy stated we also have to get a depth on there. Gallentine asked if anyone knew how far the existing tile is from the road. Sheldahl stated that he can't be certain but if he was going to guess he would say about 100 feet. Another landowner stated he did not think it would be that far. Sheldahl stated he thinks they should dig it up to find out where it is at. Jeremy stated that he can't give them a price today because he needs to do an exploratory excavation to determine the footage if that's what the landowners choose to proceed with the project.

Hoffman stated that he wants to know if we are willing to go ahead with the project and take out the televising/compaction and look at the Change Orders for these intakes. A landowner asked if the Trustees are the ones who determine if this goes or not, right? The landowner asked if they have any input. Hoffman stated that they usually allow for a nonscientific vote to occur, sometimes they use a ballot and sometimes people just raise their hands. Hoffman asked what the landowners preferred. A landowner asked if they, the landowners, would make that decision today. Granzow stated that the landowners are going to give them an opinion as to what they're going to make a decision on. Sheldahl stated he is for it. Larsen asked if they had anyone joining them by phone. Pearce and Kuechenberg stated that they did not. Sheldahl stated he was for it. A landowner stated he wanted to vote by ballot. Hoffman asked Kuechenberg to get some paper ready so the landowners could vote by ballot. Hoffman told the landowners to vote yes if they're willing to go ahead with the project removing the televising/compaction and have them create a Change Order for larger intakes. Hoffman stated that no means no to the project. A landowner asked if the Trustees wanted names on the ballot. Hoffman stated he did not. Larsen asked what the Trustees are going to do for project management. Hoffman stated if Larsen would like to go to the courthouse with Kuechenberg after the meeting, Kuechenberg will get him a petition to become a landowner Trustee district. Hoffman stated that means you guys will take our spot and manage the district. Hoffman stated that is the best solution. Larsen asked if they have anyone on staff that is a project manager. Hoffman and McClellan stated that they do not. Hoffman stated that is why they have CGA, the Drainage Engineer is their expert in project management. Larsen stated he is talking more in commercial aspects. Hoffman stated no. Granzow stated they do the best they can with managing over 200 districts. Hoffman read the results as follows: (1) yes, (2) yes, (3) yes, (4) yes, (5) yes, (6) yes, and (7) no. Hoffman stated so there were 6 yes and 1 no.

Hoffman instructed Kuechenberg to keep the official ballots. Kuechenberg stated she would. Hoffman stated the last thing he asks the landowners is if they want to reconvene or make sure their email address is correct and they can send out those change orders if need be. Hoffman asked if they wanted to have another meeting like this, or what would they like to do. Sheldahl asked what Change Order, you mean the intakes. Hoffman stated the intakes, he wants to make sure this is transparent. Bostrom stated he would like to know the total cost to date. McClellan asked to date. Kuechenberg stated, yes, to date. Hoffman asked if anyone else wanted an update? Hoffman stated anyone who needs an update should get with the Drainage Clerk and write down their emails.

Motion by Hoffman to remove the CCTV and the Compaction from the project and instruct Jeremy to get us intake prices so we can approve the project. Second by McClellan.

In additional discussion on the motion, Gallentine stated he will draft up a change order that puts all of that in writing for everyone to sign. A landowner asked if they agreed on a 24-inch intake. Hoffman stated that was correct.

All ayes. Motion Carried.

Gallentine asked the Trustees if they're granting Gehrke the year extension. Hoffman stated he would not be opposed to making a motion to approve a year extension. Granzow stated he would accept 6 months and see how they get along. Hoffman asked if there was a second for 6 month extension.

Motion by Granzow to Grant the Gehrke's a six month extension. Second by McClellan.

All ayes. Motion carried.

5. Comments/Discussion

6. Other Business

7. Adjourn Meeting

Motion by Hoffman to adjourn the meeting. Second by McClellan. All ayes. Motion carried.

Change Order

No. 5

Date of Issuance: December 17, 2021

Effective Date: June 16, 2021

Project: Drainage District Repairs	Owner: Drainage District Trustees	Owner's Contract No.:
Contract:		Date of Contract: May 2, 2018
Contractor: Hands On Excavating		Engineer's Project No.: 6771.2

The Contract Documents are modified as follows upon execution of this Change Order:

Description: For the DD 128 portion of this project, the landowner indicated the bottom of the regraded channel was saturated and would not dry out. It was decided that a private 6" single wall tile with a tile header at the upstream end could be installed for the length regraded channel to lower the groundwater level.

Attachments (list documents supporting change): E-mail from Contractor with pricing, project details, and map.

CHANGE IN CONTRACT PRICE:

CHANGE IN CONTRACT TIMES:

Original Contract Price:

Original Contract Times:

Calendar days

\$149,516.85

Substantial completion (date): 11-30-2018

Increase from previously approved Change Order No. 1 to No. 4:

Increase from previously approved Change Order No. 1 to No. 4:

\$ 30,911.50

DD 128 & Big 4 Substantial completion (date): 12-1-2019

Remainder Substantial completion (date): 6-1-2019

Contract Price prior to this Change Order:

Contract Times prior to this Change Order:

\$180,428.35

DD 128 & Big 4 Substantial completion (date): 12-1-2019

Remainder Substantial completion (date): 6-1-2019

Increase of this Change Order:

Increase of this Change Order:

\$ 5,627.47

Big 4 Substantial completion (date): 12-1-2019

DD 128 Substantial completion (date): 12-1-2021

Remainder Substantial completion (date): 6-1-2019

Contract Price incorporating this Change Order:

Contract Times with all approved Change Orders:

\$186,055.82

Big 4 Substantial completion (date): 12-1-2019

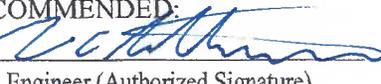
DD 128 Substantial completion (date): 12-1-2021

Remainder Substantial completion (date): 6-1-2019

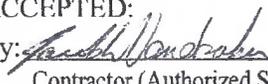
RECOMMENDED:

ACCEPTED:

ACCEPTED:

By: 
Engineer (Authorized Signature)

By: _____
Owner (Authorized Signature)

By: 
Contractor (Authorized Signature)

Date: June 2022
Approved by Funding Agency (if applicable):

Date: _____

Date: 1-6-22

Date: _____

Lee Gallentine

From: Jacob Handsaker <jacobhandsaker@handsonexc.com>
Sent: Saturday, November 06, 2021 7:48 AM
To: Lee Gallentine; dsmith@hardincountyia.gov
Subject: DD 128
Attachments: DD128 Tile Map 11.5.21.pdf; DD 128 INV 3294 11.5.21.pdf

Lee,
Attached is a map and invoice for what we did on DD128. I billed it out as T&M instead of per foot. As we discussed during the project there are a lot of willow trees currently growing around the intake of the tile main line. We pulled a lot of them out with the excavator when we were digging the connections but there are still a fair amount of them further down the line as well. The tile was plowed in with a minimum depth of 3.75'. There was one spot where we hit some rocks and concrete but we cleaned up the rocks and removed them from the trench. As it was plowed in the slope ranged from 0.2% to 3.06%. We tracked the trench down to make sure there was no concern for the horses and removed all tree and rock debris we found in the waterway. There are several areas out there that have been used as trash burn piles. There are metal items and un-burnt trash remaining. Please let me know what you think but as far as I'm concerned this project is complete, any further maintenance due to trees or debris left by the owner are of his concern and not our responsibility to clean up.

Thank you,

Jacob W. Handsaker

Hands On Excavating LLC
Handsaker Agriculture Inc.
Radcliffe, Iowa 50230
C. 515-460-6294
O. 515-899-2394
F. 1-800-852-8337
E. jacobhandsaker@handsonexc.com

www.handsonexcavating.com

Is there anything more that I can do for just you?

NOTICE: This E-mail (including attachments) is covered by the Electronic Communications Privacy Act, 18 U.S.C. §§2510-2521, and is confidential. If you are not the intended recipient, you are hereby notified that any retention, dissemination, distribution, or copying of this communication is strictly prohibited. Please reply to the sender that you have received the message in error, and then delete it. Thank you.

Hands On Excavating LLC

3305 Ziegler Ave
Radcliffe, Ia
50230

Invoice

Date	Invoice #
11/6/2021	3294
Due Date	
11/21/2021	

Bill To
Hardin County Drainage Clerk 1215 Edgington Ave, Suite 1 Eldora, IA 50627

Project Description
DD 128 Completion

Tax ID#	Terms
27-2399255	Net 15

Description	Quantity	Rate	Amount
Mobilization	1	500.00	500.00
Link Belt 3400 Hours installing intake, removing debris, connecting tiles, installing top end drain.	12	190.00	2,280.00
Man Labor Tile installation	11	35.00	385.00
6" Tile installed (Plowed)	777	2.75	2,136.75
Tile Connections	1	50.00	50.00
6" Intake Set	1	120.00	120.00
6" Dual Wall Tile	50	2.90	145.00
6" Wye	1	10.72	10.72

Thank you for the opportunity to work with you.
We look forward to earning your business in the future.
Interest at the rate of 1.5% applied from due date until paid.
Customer agrees to pay all costs, including attorney fees,
of collecting any balances more than 90 days late.

Total	\$5,627.47
Payments/Credits	\$0.00
Balance Due	\$5,627.47

Phone #	Web Site	E-mail
515 899 2394	www.handsonexcavating.com	handsonexc@gmail.com



Thank you for this opportunity to work with you. We appreciate your business and look forward to working to earn it again in the future.
 If there are any questions or concerns please contact me.
 Thank you again for your business.
 Sincerely,

	6" HDPE 2019	629.02 ft
	6" HDPE 2021	777.63 ft
	8" DW HDPE 2019	831.64 ft



Jacob W. Handsaker
 Cell: 515.460.6294
www.handsonexcavating.com

CP = Concrete Tile
 HDPE = Plastic Tile
 VCP = Clay Tile



January 6, 2022

Drainage District Trustees
1215 Edgington Ave, Suite 1
Eldora, IA 50627

RE: Repairs to DD 128
Project Completion Letter

Dear Trustees:

Hand On Excavating has completed the work required by the plans and specifications of the above referenced project including removals, replacements, and repairs as shown/included on the plan sheets, Change Orders Nos. 1 through 5, and Pay Estimate No. 7. For reference, we have already transmitted to your file copies of the lien waivers from suppliers and subcontractors that Hands On submitted to us.

To the best of my knowledge, Hands On has completed their work on the above referenced project in general accordance with the plans, specifications, Change Orders, District Trustees direction, and field instructions. The majority of this is documented in the construction observation report and pictures books what we have generated (to be transmitted under a separate cover). **Therefore, I recommend that the Drainage District contact the landowners where the construction occurred to verify whether they have any damage claims to be filed. Barring none, I recommend that the District Trustees accept their portion of the above referenced project as complete and authorize final payment (including release of retainage) to the Contractor in the amount of \$14,619.32 per the attached final pay estimate.** Also, please note that this is the last remaining project on the contract with Hands On, so that contract should be completed pending your acceptance.

If you have any questions with regards to the items in this letter, please contact me by phone at 641-847-3273 or by email at LGallentine@cgaconsultants.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "Lee Gallentine".

Lee Gallentine, PE & PLS
Clapsaddle-Garber Associates

Clapsaddle-Garber Associates, Inc.

739 Park Avenue • Ackley, Iowa 50601 • Telephone 641-847-3273 • Fax 641-847-2303

www.cgaconsultants.com

PAY ESTIMATE NO. 7 (FINAL)
Repairs To Big 4, DD 41, 77, 123, 128, and 143
PROJECT NUMBER 6771.2
12/17/2021

CONTRACTOR
Hands On Excavating, LLC
3305 Ziegler Ave.
Radcliffe, Iowa 50230

OWNER
Hardin County Trustees
1215 Edgington Ave., Ste 1
Eldora, Iowa 50627

ENGINEER
Clapsaddle-Garber Associates
739 Park Avenue
Ackley, Iowa 50601

BIG 4 DIVISION BID ITEMS

<u>Item No.</u>	<u>Description</u>	<u>Estimated Quantity</u>	<u>Unit</u>	<u>Installed Quantity</u>	<u>Unit Price</u>	<u>Extended Price</u>
1	Main Open Ditch Slough Grading	0.2	AC	0.2	\$ 6,800.00	\$ 1,360.00
2	Main Open Ditch Bank Grading	80	LF	80	\$ 19.25	\$ 1,540.00
3	Surface Drain Cleanout	3	EA	3	\$ 800.00	\$ 2,400.00
4	Surface Drain Inlet Grading	3	LOC	3	\$ 320.00	\$ 960.00
5	Riprap	380	TN	363.3	\$ 38.46	\$ 13,972.52
6	Surface Drain (36")	40	LF	80	\$ 87.50	\$ 7,000.00
7	Surface Drain Removal	1	LOC	1	\$ 850.00	\$ 850.00
8	Permanent Seeding	0.5	AC	1	\$ 2,556.00	\$ 2,556.00
9	Seeding Warranty	1	LS	2	\$ 750.00	\$ 1,500.00

DD 41 DIVISION ALTERNATE BID

101AL	24" Ø CMP Tile Outlet	40	LF	40	\$ 62.75	\$ 2,510.00
102AL	18" Ø RCP Tile	320	LF	336	\$ 52.81	\$ 17,744.16
103AL	Type PC-2 Concrete Collar	6	EA	8	\$ 350.00	\$ 2,800.00
104AL	Private Tile Connection	2	EA	4	\$ 250.00	\$ 1,000.00
105AL	Fence Removal and Replacement	1	LS	1	\$ 500.00	\$ 500.00
106AL	Tree Removal	1	LS	1	\$ 300.00	\$ 300.00
107AL	Tile Removal	360	LF	376	\$ 2.00	\$ 752.00
108AL	Riprap	50	TN	43.52	\$ 45.11	\$ 1,963.19
109AL	Permanent Seeding	0.3	AC	0.04	\$ 1,500.00	\$ 60.00
110AL	Seeding Warranty	1	LS	1	\$ 500.00	\$ 500.00

DD 77 DIVISION BID

*201rev	18" Ø RCP Tile	970	LF	975	\$ 48.79	\$ 47,570.25
*202rev	Type PC-2 Concrete Collar	2	EA	2	\$ 350.00	\$ 700.00
*203rev	Private Tile Connection	4	EA	2	\$ 250.00	\$ 500.00
*204rev	Tile Removal (Crush in-place)	860	LF	860	\$ 1.00	\$ 860.00
*205rev	Tile Removal (Offsite Disposal)	110	LF	110	\$ 1.00	\$ 110.00

DD 123 DIVISION BID

301	36" Ø RCP Tile	205	LF	216	\$ 92.20	\$ 19,915.20
302	Type PC-2 Concrete Collar	8	EA	8	\$ 350.00	\$ 2,800.00
303	Tile Removal	205	LF	216	\$ 5.00	\$ 1,080.00



DD 128 DIVISION BID

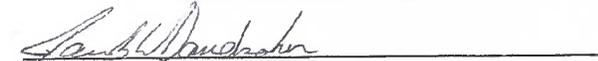
**401	8" Ø HDPE FLEX Dual Wall Tile w/o Rock Bedding	985	LF	852	\$ 10.01	\$ 8,528.52
402	8" Ø HDPE Dual Wall Wye	1	EA	1	\$ 60.00	\$ 60.00
403	8" Ø x 22½° HDPE Dual Wall Bend	1	EA		\$ 40.00	\$ -
404	Type PC-2 Concrete Collar	2	EA	2	\$ 350.00	\$ 700.00
405	Private Tile Connection	3	EA	3	\$ 350.00	\$ 1,050.00
406	15" Ø Hickenbottom Intake	1	EA	1	\$ 650.00	\$ 650.00
407	8" Ø Hickenbottom Intake	1	EA	1	\$ 150.00	\$ 150.00
408	Top Soil Salvage, Stockpile, and Respread	1	LS	1	\$ 3,200.00	\$ 3,200.00
409	Channel Grading (Fill and Borrow)	12	STA	12	\$ 450.00	\$ 5,400.00
410	Debris, Junk, and Rubble Removal	12	STA	12	\$ 200.00	\$ 2,400.00
411	Intake Removal	1	EA		\$ 300.00	\$ -
412	Tile Removal	20	LF	20	\$ 5.00	\$ 100.00
413	Tree Removal	12	STA	12	\$ 400.00	\$ 4,800.00
414	Permanent Seeding	0.9	AC	0.3	\$ 1,500.00	\$ 450.00
415	Seeding Warranty	1	LS	0.3	\$ 500.00	\$ 150.00
416^	6" Ø Single Dual Wall (private in middle of channel)	1	LS	1	\$ 5,627.47	\$ 5,627.47

DD 143 DIVISION BASE BID

501	18" Ø RCP Tile	20	LF	20	\$ 56.32	\$ 1,126.40
502	15" Ø RCP Tile	180	LF	192	\$ 33.75	\$ 6,480.00
503	Type PC-2 Concrete Collar	4	EA	4	\$ 350.00	\$ 1,400.00
504	Private Tile Connection	3	EA		\$ 350.00	\$ -
505	6" ACC Pavement	120	SY	33.33	\$ 90.70	\$ 3,023.03
506	Pavement Removal	120	SY	33.33	\$ 3.84	\$ 127.99
507	Tile Removal	200	LF	212	\$ 2.00	\$ 424.00
508	Tree Removal	1	LS	1	\$ 200.00	\$ 200.00
509	Permanent Seeding	0.2	AC	0.15	\$ 1,500.00	\$ 225.00
510	Seeding Warranty	1	LS	1	\$ 1,062.50	\$ 1,062.50
511	Traffic Control	1	LS	1	\$ 200.00	\$ 200.00

I have reviewed the work claimed to be completed by the Contractor as reflected above and recommend payment of **\$ 14,619.32** to the Contractor.


 Lee Gallentine, Project Engineer


 Contractor

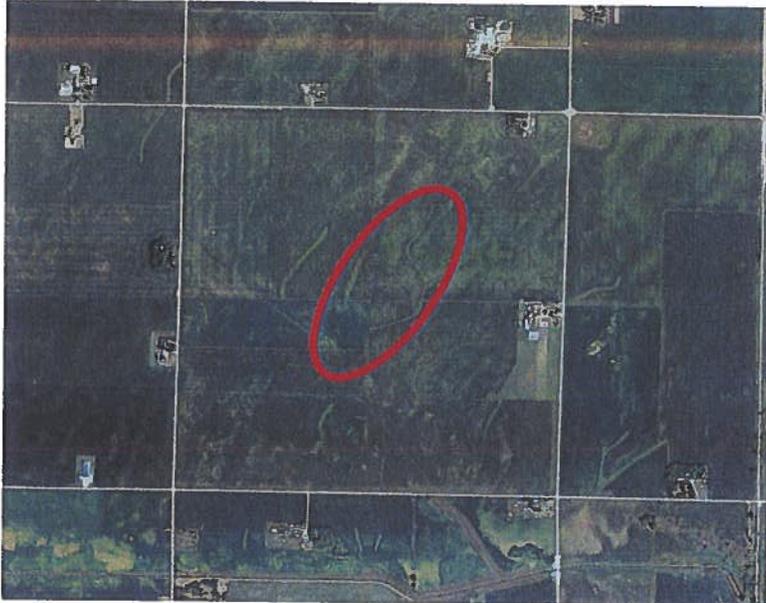
TOTAL WORK COMPLETED TO DATE	\$ 181,338.22
10% RETENTION	\$ -
AMOUNT DUE LESS RETENTION	\$ 181,338.22
PREVIOUSLY PAID	\$ 166,718.90
AMOUNT DUE AT THIS TIME	\$ 14,619.32

* - Approved as part of Change Order #1
 ** - Approved as part of Change Order #3

^ - Approved as part of Change Order #5

Note: For pay estimate #1, \$25,262.41 was for DD 41, \$44,996.67 was for DD 77, and \$7,734.66 was for DD 143.
 For pay estimate #2, \$21,678.12 was for DD 123.
 For pay estimate #3, \$28,924.66 was for Big 4.
 For pay estimate #4, \$11,824.67 was for DD 128.
 For pay estimate #5, \$6,822.00 was for DD 128 and \$4,209.68 was for DD 143.
 For pay estimate #6, \$2,324.59 was for DD 143, \$2,117.08 was for DD 123, \$4,743.58 was for DD 77, \$2,866.93 was for DD 41, and \$3,213.85 was for Big 4.
 For pay estimate #7, \$14,619.32 was for DD 128.





**ENGINEER'S REPORT
ON REPAIRS OR
IMPROVEMENTS TO
THE MAIN TILE
DRAINAGE DISTRICT
NO. 14
HARDIN COUNTY,
IOWA**

	<p>I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA</p>
	<p><i>Zeb J. Stanbrough</i> PE <i>1-17-2022</i> ZEB J. STANBROUGH, P.E. DATE</p> <p>LICENSE NUMBER: 19957 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023 PAGES OR SHEETS COVERED BY THIS SEAL: SHOWN ON TABLE OF CONTENTS</p>

	<p>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</p>	<p>Project Office 739 Park Avenue Ackley, IA. 50601 Phone: 641-847-3273 Fax: 641-847-2303</p>
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Engineer's Report on Repairs or Improvements to the Main Tile, Drainage District No. 14 Hardin County, Iowa

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Engineer's Report on Repairs or Improvements To the Main Tile, Drainage District No. 14 Hardin County, Iowa

1.0 INTRODUCTION

- SCOPE OF WORK – The Hardin County Board of Supervisors acting as District Trustees, requested Clapsaddle-Garber Associates to prepare a report concerning repairs or improvements to the Main Tile of Drainage District No. 14. This report will detail the feasibility of said repairs or improvements, and present opinions of probable construction costs associated with said repairs or improvements. At the landowner meeting held on February 2, 2021, the District Trustees requested Clapsaddle-Garber Associates to move ahead with a report concerning repairs or improvements to the lower portion of the Main tile.

- LOCATION – The area of investigation was limited to the lower 2,900 feet of the existing Main tile. Said Main tile is located in Section 34, Township 88 North (T88N), Range 22 West (R22W), Hardin County, Iowa. Specifically, the downstream limit of the investigation for the Main tile is where the Main tile outlets into Drainage District No. 123 in said Section 34, approximately ½ mile east of E Avenue and ¾ mile north of 220th Street. Going upstream, the tile then proceeds northeasterly across Section 34, with the upstream limits of the investigation being approximately ¼ mile south of County Highway D41/210th Street and ¼ mile west of County Highway S27/F Avenue. For reference, maps showing the Main tile are included in Appendices B and C.

2.0 DISTRICT HISTORY – The following is a brief summary of the pertinent history of Drainage District No. 14 as obtained from the Hardin County Auditor’s drainage minutes and records.

- 1909, Aug. 19 Petition for Drainage District No. 14 drainage bonds
- 1909, Aug. 20 Petition for drainage improvement. Said petition indicated a main tile with 2 laterals should be installed. Specifically, it indicated the main should start in part of the NE ¼ of Sec. 27, part of the SE ¼ Sec. 27, part of the SW ¼ of Sec. 27, part of the NW ¼ of Sec. 26, part of the SW ¼ of Sec. 26, part of the NE ¼ of Sec. 34.
- 1909, Dec. 5 Engineer’s Report by S.B. Gardner was filed. It called for 9600 feet of main tile (15 inch diameter to 5 inch diameter), 2240 feet of Lateral 1 tile (8 inch diameter to 5 inch diameter), 1200 feet of Lateral 2 tile (8 inch diameter to 6 inch diameter), 800 feet of Lateral 3 tile (8 inch diameter) and a 4 cubic yard concrete bulkhead. The estimated total cost of construction was \$3790.00.
- 1910, Jan. 25 Richard Vierkandt filed a claim for damages in the amount of \$400. Claim was investigated by appraisers H.W. Utech and A.B. Baxter and denied.
- 1910, Mar. 7 Notice to Contractors for construction of Tile Drain.
- 1910, Mar. 7 Construction Contract with Shriver and Thomas for \$2235.10 for labor for placing and laying of tile.
- 1910, May 2 Tile Contract with Eldora Pipe and Tile Co. of Eldora for \$1,759.10 for supplying tile was entered.
- 1910, Dec. 5 Engineer’s recommendation to Trustees for final payment to Shriver and Thomas for work completed.
- 1915, Jun. 14 Completed repairs, 21 bad places caused by the tile not being laid close together by R.S. Cornell. No amount stated.
- 1915, Apr. 21 Approval of needed repair by W.E. Welden. John Wird entered complaint of needed repairs was directed to employ necessary help to repair same.
- 1917, Jul. 24 Request for repair to bulkhead at outlet and for several broken tile along half mile of said district.
- 1953, Jan. 28 Bill for Machine Rental for repair located in the NE ¼ Sec. 34.
- 1955, Dec. 2 Bill for tile repair located in the NE ¼ Sec. 34.
- 1955, Dec. 2 Bill for tile repair located in the NE ¼ Sec. 34.
- 1956, Jan. 19 Bill for machine rental and materials located in the NE ¼ - NW ¼ of Sec. 34, and SW ¼ Sec. 26.
- 1958, Dec. 12 Bill for repair work located in the SW ¼ - NE ¼ Sec. 34.
- 1960, Mar. 30 Bill to prepare assessment and trace old blueprint.
- 1960, Jun. 1 Bill for repair located in the NE ¼ Sec. 34.
- 1961, Nov. 1 Bill to clean tile located in SW ¼ Sec. 26.
- 1969, Dec. 5 Bill for tile repair located in Sec. 34 and Sec. 26.
- 1975, May 16 Bill for tile repair located in Sec. 34.
- 1983, Aug. 1 Bill for tile repair located in Sec. 34.
- 1983, Dec. 19 Bill for tile repair located in the NE ¼ Sec. 34.
- 1989, May 10 Bill to repair broken tile located in the NE ¼ Sec. 34.
- 1991, Oct. 9 Bill to repair broken tile located in the NE ¼ Sec. 34.
- 1991, Nov. 13 Bill to repair broken tile located in the SW ¼ Sec. 34.
- 1997, July 1 Bill to repair broken tile located in the NE ¼ Sec. 34.
- 2001, April 3 Engineer’s Report was filed by Ryken Engineering. It reviewed D.D. No. 14 and recommended construction of a new tile parallel to the existing tile consisting of 300 feet of 21 inch tile, 5100 feet of 18 inch tile, and 2000 feet of 15 inch tile for a total cost of \$144,500.
- 2001, Jun. 28 Bill for repair located in the NE ¼ Sec. 34.

- 2006, Aug. 7 Bill for repair located in the NE ¼ Sec. 34.
- 2011, Mar. 14 Bill for repair located in Sec. 34.
- 2012, Jan. 16 Bill for repair located in Sec. 34.
- 2017, Feb. 15 Approval for tile repair in the NE ¼ Sec. 34.
- 2017, Feb. 15 Engineer's repair summary was filed by Ryken Engineering reporting work done to repair tile issues and cost of time and materials used in repair of main in the NE ¼ of Sec. 34.
- 2017, Feb. 15 Engineer's repair summary was filed by Ryken Engineering reporting additional repair work done and cost of time and materials used in repair in the NE ¼ Sec. 34.
- 2017, Apr. 12 Engineer's repair summary was filed by Ryken Engineering reporting work done to repair tile, and cost of time and materials used in the NE ¼ Sec. 34.
- 2017, Jul. 17 Engineer's investigation summary of CCTV of tile main in the NE ¼ of Sec. 34.

3.0 INVESTIGATION – Review of the district history indicates that the Main tile of Drainage District No. 14 has had over 40 repairs within Section 34. 21 of those repairs were completed within the first 5 years after the original construction of the Main tile. Said investigation was limited to courthouse research and previous repair/investigation summaries by Clapsaddle-Garber Associates and Ryken Engineering. During the previous investigation from 2020, 26 locations were found where the Main tile was either partially or imminently collapsing over the course of approximately 1,900 feet. For reference, a partial copy of the previous investigation summary is included in Appendix A.

4.0 DISCUSSION AND CONCLUSIONS – Based on the above, it is obvious that the existing Main tile in the area of investigation is in various states of collapse which is restricting drainage capacity in the area. It is not clear if those collapses are due to the age of the tile or continuation of the original installation issues. However, if repairs or improvements are not performed, the Main tile will continue to have poor drainage performance, the upstream landowners will continue to experience overland flow, ponding, and additional sinkholes will form over the Main tile. This will continue to affect productivity of the farmed ground upstream of these issues and it will get worse as the tile ages. When all these issues are combined, it will lead to further reduced drainage capacity and liability exposure by the drainage district.

5.0 **REPAIR METHODS** – To repair the existing Main tile, the following options are the most straightforward available:

Partial Tile Replacement – Lower 500 feet

- Remove and replace the lower 500 feet of the existing Main tile within the investigation limits with new Main tile of equal or comparable size.
- Typically, the replacement Main tile would be in the same location or near proximity as the existing Main tile in order to locate and reconnect private tile and district lateral tile. For reference, the route and locations are shown on the map included in Appendix B.

Partial Tile Replacement – Lower 2,900 feet

- Remove and replace the lower 2,900 feet of the existing Main tile for the entire investigation limits with new Main tile of equal or comparable size.
- Typically, the replacement Main tile would be in the same location or near proximity as the existing Main tile in order to locate and reconnect private tile. For reference, the route and locations are shown on the map included in Appendix C.

With the above-mentioned repair methods, the following should be noted:

- The pipe sizes used are those that are currently manufactured that most closely meet or exceed the current Main tile size.
- The Partial Tile Replacement option would allow for lower maintenance costs in those areas in the future as the entire Main tile is new.
- The Partial Tile Replacement option would remove all soil and debris in the existing Main tile in those areas.
- The only portion of the Main tile which is being replaced would be as detailed in the above. No other portions of the Main tile were investigated or proposed for replacement.
- The Partial Tile Replacement would use rock bedding and backfill for strength due to soil characteristics in the area of replacement.
- The Partial Tile Replacement would use slopes/grades that match or closely meet the original design.
- The Partial Tile Replacement will not significantly increase the drainage capacity of the Main tile beyond its original design of 0.10 inches per day at the outlet.
- The Partial Tile Replacement would outlet into both the original Main tile and the supplemental Main tile of Drainage District No. 123
- Repairs have historically been viewed as not having an impact on jurisdictional wetlands. As such, individual landowners should consult with applicable staff at the Hardin County NRCS offices to verify the existence of said jurisdictional wetlands and that there will be no impact on them.

Per Iowa Code Chapter 468.126, any of the above actions that do not intend to increase capacity would be considered a repair. Per Iowa Code Chapter 468.126.1.g, the right of remonstrance does not apply to the proposed repairs

6.0 **IMPROVEMENT METHODS** – To improve the drainage capacity for the existing Main tile, the following options are the most straight forward available:

Upsized Tile Replacement – Upsizing Lower 500 feet

- Remove and replace the lower 500 feet of the existing Main tile within the investigation limits with new Main tile of a larger size.
- Typically, the replacement Main tile would be in the same location or near proximity as the existing Main tile in order to locate and reconnect private tile. For reference, the route and locations are shown on the map included in Appendix B.

Upsized Tile Replacement – Upsizing Lower 2,900 feet

- Remove and replace the lower 2,900 feet of the existing Main tile within the investigation limits with new Main tile of a larger size.
- Typically, the replacement Main tile would be in the same location or near proximity as the existing Main tile in order to locate and reconnect private tile. For reference, the route and locations are shown on the map included in Appendix C.

With the above-mentioned possible improvement, the following should be noted in addition to the notes in repair methods section:

- The replacement of the Main tile with an Upsized Main tile would allow for lower maintenance cost in those areas in the future as the lower main tile is new.
- The replacement of the Main tile with an Upsized Main tile increases drainage capacity, which has traditionally fit the Iowa Code definition of improvement.
- The Upsized Tile Replacement option would remove all soil and debris in the existing Main tile in those areas.
- The only portion of the Main Tile which is being replaced would be as detailed in the above. No other portions of the Main tile were investigated or proposed for replacement.
- The Upsized Tile Replacement would use rock bedding and backfill for strength due to soil characteristics in the area of replacement.
- The Upsized Tile Replacement would use slopes/grades that match or closely meet the original design. Except the lower 300 feet which would be at a steeper grade due to the supplemental main tile of Drainage District 123 being deeper than the original Main tile of Drainage District 123.
- The Upsized Tile Replacement will increase the drainage capacity of the Main tile beyond to 0.34 inches per day at the outlet.
- The Upsized Tile Replacement would outlet into both the original Main tile and the supplemental Main tile of Drainage District No. 123
- Improvements have historically been viewed as having an impact on jurisdictional wetlands. As such, individual landowners should consult with applicable staff at the Hardin County NRCS offices to verify the existence of said jurisdictional wetlands and what said impact may be on them.

Per Iowa Code Chapter 468.126, any of the above actions that intend to increase capacity would be considered an improvement. Per Iowa Code Chapter 468.126.4.e, the right of remonstrance does apply to the proposed repairs.

7.0 OPINION OF PROBABLE CONSTRUCTION COSTS – Using the above methods of repair or improvement, an itemized list of project quantities and associated opinions of probable construction cost for each option were compiled and are included in Appendices D and E of this report. A summary of said costs are as follows:

METHOD PARTIAL TILE REPLACEMENT	TOTAL COST
Repair – Lower 500 feet	\$62,400.00
Repair – Lower 2,900 feet	\$288,000.00
Improvement – Upsizing Lower 500 feet	\$73,650.00
Improvement – Upsizing Lower 2,900 feet	\$353,250.00

It should be noted that said costs include materials, labor, and equipment supplied by the contractor to complete the necessary repair or improvement and include applicable engineering, construction observation, and project administration fees by Clapsaddle-Garber Associates. However, said costs do not include any interest, legal fees, county administrative fees, crop damages, other damages, previous repairs, engineering fees to date, wetland mitigation fees, or reclassification fees (if applicable). As always, all costs shown are opinions of Clapsaddle-Garber Associates based on previous lettings on other projects. Said costs are just a guideline and are not a guarantee of actual costs.

8.0 OWNERSHIP AND CLASSIFICATIONS – Any and all information concerning ownership of lands and classifications of said lands within Drainage District No. 14 can be obtained from the Hardin County Auditor’s office.

It should be noted that Iowa Code Chapter 468.65 states “When, after a drainage . . . district has been established . . .” and “. . . a repair . . . has become necessary, the board may consider whether the existing assessments are equitable as a basis for payment of the expense of . . . making the repair . . .” and “If they find the same to be inequitable in any particular . . . they shall . . . order a reclassification . . .” Based on this, it is our opinion that a reclassification may be need if the repair were to move forward.

It should also be noted that Iowa Code Chapter 468.131 states “When an assessment for improvements . . . exceeds twenty-five percent of the original assessment and the original or subsequent assessment . . . did not designate separately the amount each tract should pay for the main ditch and tile lateral drains then the board shall order a reclassification . . .” Based on this, it appears that a reclassification separating laterals may be required if any of the above options were deemed to be an improvement, said improvement were to move forward, and the laterals had not already been separated. Since the proposed project does not involve the laterals, it is not clear if this portion of code is applicable, and it is our recommendation that the District Trustees seek advice from their legal counsel.

9.0 **RECOMMENDATIONS** – There is a definite need to perform one of the above-mentioned actions. The actions would remove the current restrictions to the Main tile and extend the lifespan of the same. Therefore, it is recommended that the District Trustees, should take action to accomplish the following:

- Approve the Engineer's Report as prepared by Clapsaddle-Garber Associates.
- Hold the required hearing on the proposed repair or improvement.
- Adopt one of the recommendations of the Engineer's Report.
- Direct plans and specifications for the proposed repair or improvement be prepared by Clapsaddle-Garber Associates.
- Proceed with receiving bids from interested contractors by Clapsaddle-Garber Associates.
- Award contract to the lowest responsible contractor.
- If desired or required by Iowa Code, proceed with reclassification proceedings after seeking legal advice concerning the same.

Drainage District:

#14

Investigation Summary:

- Per the earlier recommendations and authorization, CCTV inspected the 15-inch VCP Main Tile starting at existing 3 feet diameter blowout located in the grass waterway approximately 1900 feet east of County Highway S27 and approximately 2650 feet south of County Highway D41.
- Televised 884.9 feet upstream (to the north) from said existing tile blowout and found 17 locations of partial/imminent collapse. (see attached Tabulated Defects sheet)
- Televised 995 feet downstream (to the south) from said existing tile blowout and found 9 locations of partial/imminent collapse. (see attached Tabulated Defects sheet)
- Temporarily repaired 4 tile locations, 2 north and 2 south (1 was at tenant's request) from the start location of the CCTV with 15" Dual Wall HDPE tile with fabric wrapped joints and backfilled the areas with on-site soil.

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

See attached Tabulated Contractor Time and Materials Tabulated Defects sheet.

Additional Actions Recommended:

It is obvious that the Main tile is in disrepair and needs to be repaired based on the CCTV results and the history of repairs in the area. If nothing is done, the tile's condition will only continue to deteriorate which will result in future blowouts and sinkholes that will impact the drainage capacity of the Main tile. Therefore, we would recommend doing at least 6 spot repairs which would consist of replacing approximately 570 feet of existing tile. It is our opinion that the total construction cost would be \$35,000-\$45,000. This cost is low enough that neither a hearing nor Engineer's Report would be required. Alternatively, the District Trustees could pursue replacement of the Main tile for its entire length of CCTV, the cost of which would exceed \$50,000 and require a hearing and Engineer's Report.



Tabulated Contractor Time and Materials

Date	Totals	5/14/2020
Workman (hrs)	18.75	18.75
Mini Excavator (hrs)	6.25	6.25
UTV with camera Equipment (hrs)	6.25	6.25
18" Dual Wall HDPE Tile (ft.)	19.9	19.9
CCTV inspection (ft.)	1878.3	1878.3



Tabulated Defects

	Total	GPS #177 UPSTREAM	GPS #178 DOWNSTREAM
Total Length Televised (ft)	1879.9	884.9	995
Date:		5/14/2020	5/14/2020
Top crack (ft)	805.3	338.5	466.8
Side crack (ft)	161.4	69.2	92.2
Bottom crack (ft)	805.3	338.5	466.8
Partial or imminent collapse (#)	26	17	9
Full collapse (#)	0	0	0
Debris (ft)	3	3	0
Offset Joint (#)	6	5	1
Soil/voids visible in offset joint (#)	5	4	1
Single Wall HDPE (non-deformed) (ft)	6.2	1.5	4.7
Dual Wall HDPE (ft)	0	0	0
CMP (rusty) (ft)	49.8	34.3	15.5
Holes (non-fixed) (#)	0	0	0
Holes (fixed) (#)	0	0	0
Alligator Cracks (ft)	261.4	0	261.4
Radial Cracks (# of tile)	2	0	2



PLAT

OF THE

WIRDS

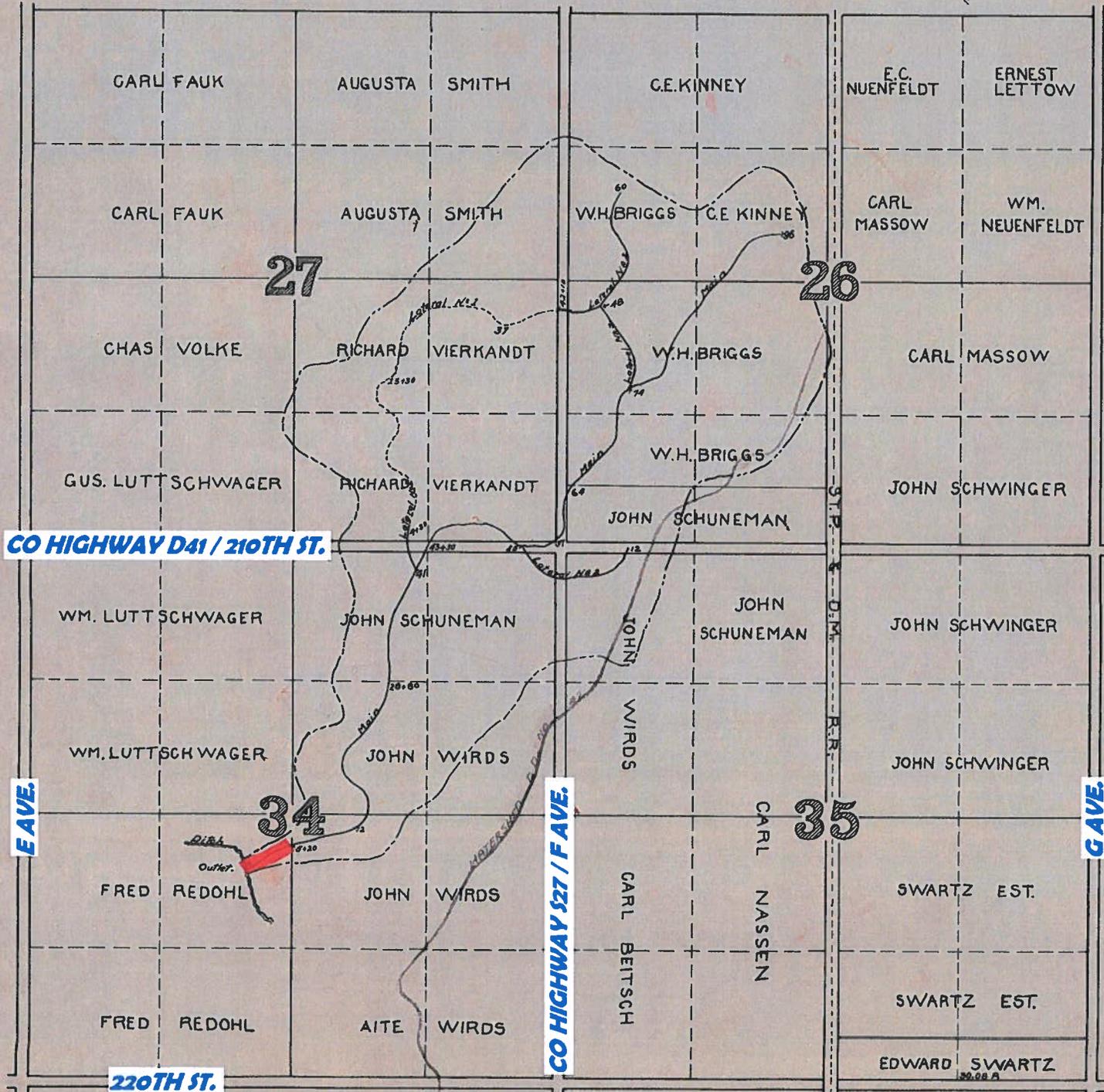
DRAINAGE DISTRICT No 14

REPAIR / IMPROVEMENT

REFERENCE	
Ditch	
Railroad	
Boundary of District	
Proposed Improvement	
Not Recommended	

HARDIN COUNTY IOWA
CONTAINING 495 ACRES
S.B.GARDNER, ENGR. 1909 ELDORA IOWA.

SCALE
1 in. = 600 FT.



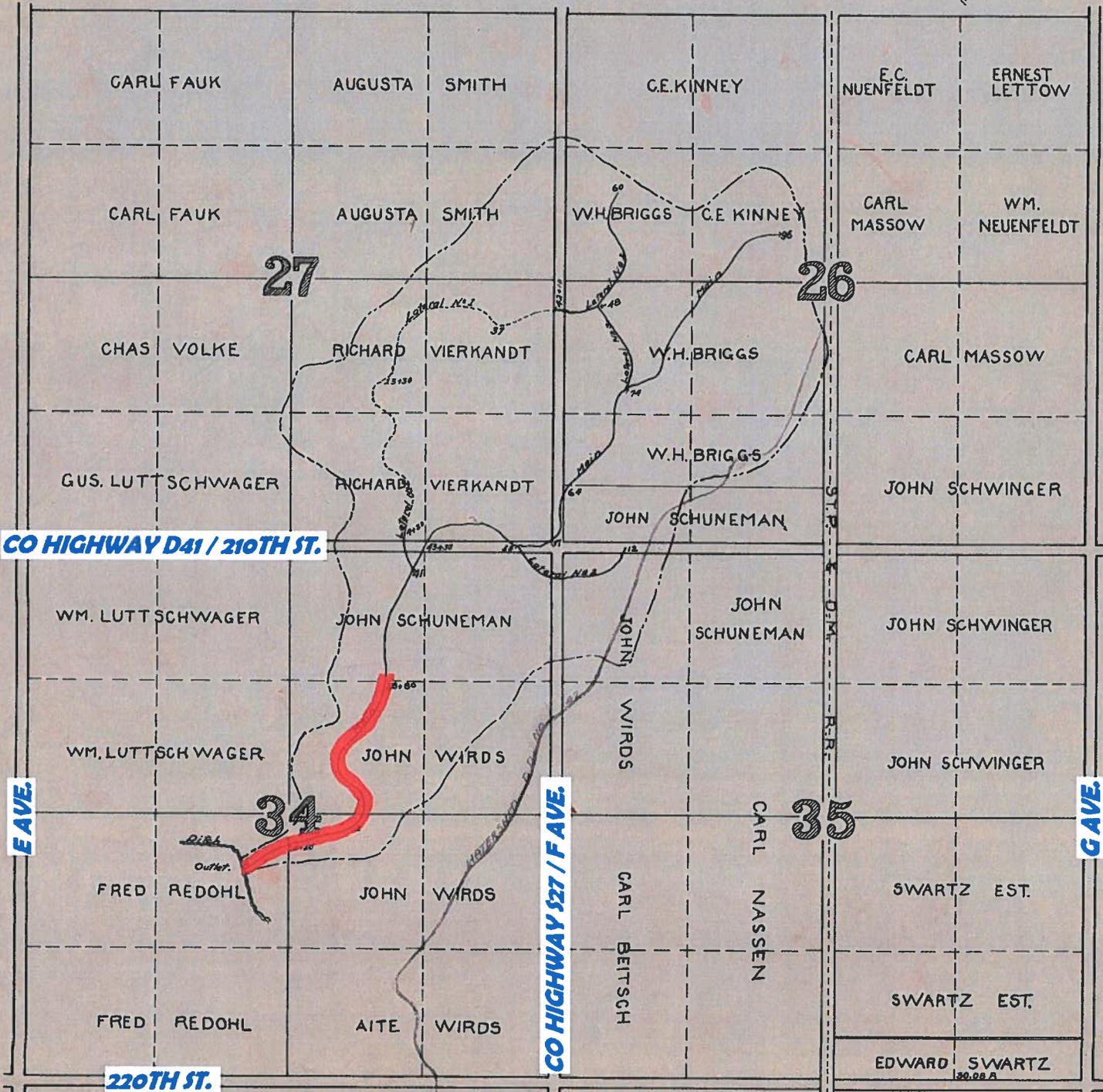
PLAT OF THE WIRDS DRAINAGE DISTRICT No 14

REPAIR / IMPROVEMENT

REFERENCE	
Ditch	
Railroad	
Boundary of District	
Proposed Improvement	
Not Recommended	

HARDIN COUNTY IOWA
CONTAINING 495 ACRES
S.B.GARDNER, ENGR. 1909 ELDORA IOWA.

SCALE
1 in. = 600 ft.



BUCKEYE TOWNSHIP
88-22

Engineer's Opinion of Probable Construction Cost

Project: Main tile Repair for D.D. #14

Location: Section 34, T82N, R22W, Hardin County, Iowa

	ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost
	PARTIAL TILE REPLACEMENT (LOWER - 500 FEET)	CONSTRUCTION COSTS					
101		15" RCP OR DUAL WALL TILE	\$ 50.00	LF	500	LF	\$ 25,000.00
102		INTERCONNECTION WITH DD-123 (OUTLET)	\$ 10,000.00	EA	1	EA	\$ 10,000.00
103		PRIVATE TILE CONNECTIONS	\$ 800.00	EA	1	EA	\$ 800.00
104		CONCRETE COLLARS	\$ 400.00	EA	2	EA	\$ 800.00
105		LOCATE EXISTING TILE	\$ 3.00	LF	500	LF	\$ 1,500.00
106		REMOVAL OF EXISTING TILE	\$ 7.00	LF	500	LF	\$ 3,500.00
CONSTRUCTION SUBTOTAL						\$ 41,600.00	
Contingency (20%)						\$ 8,320.00	
CONSTRUCTION TOTAL						\$ 49,920.00	
Engr. & Const. Observation (25%)						\$ 12,480.00	
TOTAL COST						\$ 62,400.00	
PARTIAL TILE REPLACEMENT (LOWER - 2,900 FEET)	CONSTRUCTION COSTS						
	201	15" RCP OR DUAL WALL TILE	\$ 50.00	LF	2900	LF	\$ 145,000.00
	202	INTERCONNECTION WITH DD-123 (OUTLET)	\$ 10,000.00	EA	1	EA	\$ 10,000.00
	203	PRIVATE TILE CONNECTIONS	\$ 800.00	EA	8	EA	\$ 6,400.00
	204	CONCRETE COLLARS	\$ 400.00	EA	4	EA	\$ 1,600.00
	205	LOCATE EXISTING TILE	\$ 3.00	LF	2900	LF	\$ 8,700.00
	206	REMOVAL OF EXISTING TILE	\$ 7.00	LF	2900	LF	\$ 20,300.00
	CONSTRUCTION SUBTOTAL						\$ 192,000.00
	Contingency (20%)						\$ 38,400.00
	CONSTRUCTION TOTAL						\$ 230,400.00
Engr. & Const. Observation (25%)						\$ 57,600.00	
TOTAL COST						\$ 288,000.00	

Engineer's Opinion of Probable Construction Cost
Project: Main tile Improvement for D.D. #14
 Location: Section 34, T82N, R22W, Hardin County, Iowa

	ITEM #	DESCRIPTION	Unit Cost	Units	Quantity	Units	Total Cost	
	UPSIZED TILE REPLACEMENT (LOWER - 500 FEET)	CONSTRUCTION COSTS						
101		24" RCP OR DUAL WALL TILE	\$ 65.00	LF	500	LF	\$ 32,500.00	
102		INTERCONNECTION WITH DD-123 (OUTLET)	\$ 10,000.00	EA	1	EA	\$ 10,000.00	
103		PRIVATE TILE CONNECTIONS	\$ 800.00	EA	1	EA	\$ 800.00	
104		CONCRETE COLLARS	\$ 400.00	EA	2	EA	\$ 800.00	
105		LOCATE EXISTING TILE	\$ 3.00	LF	500	LF	\$ 1,500.00	
106		REMOVAL OF EXISTING TILE	\$ 7.00	LF	500	LF	\$ 3,500.00	
CONSTRUCTION SUBTOTAL						\$	49,100.00	
Contingency (20%)						\$	9,820.00	
CONSTRUCTION TOTAL						\$	58,920.00	
Engr. & Const. Observation (25%)						\$	14,730.00	
TOTAL COST						\$	73,650.00	
UPSIZED TILE REPLACEMENT (LOWER - 2,900 FEET)	CONSTRUCTION COSTS							
	201	24" RCP OR DUAL WALL TILE	\$ 65.00	LF	2900	LF	\$ 188,500.00	
	202	INTERCONNECTION WITH DD-123 (OUTLET)	\$ 10,000.00	EA	1	EA	\$ 10,000.00	
	203	PRIVATE TILE CONNECTIONS	\$ 800.00	EA	8	EA	\$ 6,400.00	
	204	CONCRETE COLLARS	\$ 400.00	EA	4	EA	\$ 1,600.00	
	205	LOCATE EXISTING TILE	\$ 3.00	LF	2900	LF	\$ 8,700.00	
	206	REMOVAL OF EXISTING TILE	\$ 7.00	LF	2900	LF	\$ 20,300.00	
	CONSTRUCTION SUBTOTAL						\$	235,500.00
	Contingency (20%)						\$	47,100.00
	CONSTRUCTION TOTAL						\$	282,600.00
Engr. & Const. Observation (25%)						\$	70,650.00	
TOTAL COST						\$	353,250.00	