

AGENDA
REGULAR DRAINAGE MEETING
Wednesday, July 29, 2020 9:30 AM
Large Conference Room

Due to Covid-19 health concerns, this meeting is open to the public via conference call only. The meeting date and time will remain the same. You may call at that time to access the hearing by following the instructions below:

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:

[07_22_20 - DRAINAGE MINUTES.PDF](#)

4. Approve Claims For Payment

Documents:

[PAYABLES-DRAINAGE PUBLICATION 07_31_20.PDF](#)

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

Documents:

[DD 26 WO 266 - REPAIR SUMMARY 07_22_20.PDF](#)

6. DD 41 WO 299 - Discuss W Possible Action
DD 41 - WO 299 - Chris Blome reports 3' blowout on DD 41 Main tile.

Documents:

[DD 41 WO 299.PDF](#)
[DD 41 WO 299 - MAP.PDF](#)

7. DD 121 WO 295 - Discuss W Possible Action - Investigation Summary

Documents:

[DD 121 WO 295 -6934.1 - INVESTIGATION SUMMARY - 07_24_2020.PDF](#)

8. Discuss W Possible Action - Drainage Utility Permit Repair Process

Documents:

[LETTER - DRG UTILITY PERMIT DRAFT.PDF](#)

9. Other Business
10. Adjourn Meeting

REGULAR DRAINAGE MEETING
Wednesday, July 22, 2020 9:30 AM

7/22/2020 - Minutes

1. Open Meeting

Hardin County Chairperson Lance Granzow opened the meeting. Also present were Trustee BJ Hoffman; Trustee Renee McClellan; Taylor Roll, Hardin County Engineer and Mayor of Radcliffe; April Eller, Radcliffe City Clerk; Chuck Raska, City of Radcliffe; Landowners Roger Handsaker, Paul Handsaker; Lee Gallentine of Clapsaddle-Garber Associates; Darrell Meyer, County Attorney; and Denise Smith, Drainage Clerk.

2. Approve Agenda

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

3. Approve Minutes

Motion by Hoffman to approve the minutes of Drainage Meeting dated 07-15-2020. Second by McClellan. All ayes. Motion carried.

4. DD 143 - Discuss W Possible Action - Tree Removal Options

Granzow stated the Trustees would like to discuss tree removal options, and as Trustees can go in and remove trees in the right of way, but it gets expensive, we have options to go in and remove the trees and do an improvement. Granzow stated it would be nice if we could have the City go in and somehow they communicate through their public or through themselves to take the trees down and hopefully stop the growth of the trees that have to come down, the roots are continuing to grow in the tile, water is flowing but it will get completely plugged at some point. Granzow was unsure if the City of Radcliffe would like to do anything to remove trees, or if the City would like the Trustees to handle the tree removal.

Roll asked if the Trustees were just talking about the trees in the right of way. Granzow stated yes. Roll stated he is not opposed to it and asked Raska what his thoughts were. Raska stated it would be nice to know which trees were at issue and categorize them and do them in segments rather than take them all. Gallentine stated the tree inventory was in the report, and the species at issue were highlighted. Roll asked if some of the trees were out of the right of way. Gallentine stated it is within 50' of the main tile is what CGA recommends removing, and the species doesn't matter if they are out of the right of way. Granzow stated we are trying to do this in the most efficient way. Roll stated he thought they could do some of the tree removal and revisit it. Raska stated there are probably 8 to 10 trees along that route that are dead anyway and need to come down. If they are diseased or dead, they become the city's responsibility, over the landowner's anyway. Raska stated when they are in town and it is a choice if they want it removed it is landowners choice, even if it is in the right of way. Raska stated this is a different thing than we have, we don't have anything written for tile in town, so we go off the districts, and if they have to be removed, Raska is not sure if the City wants the financial responsibility of taking all the trees down either. Hoffman stated that everyone should understand if the City takes them down, the costs will be passed along to the citizens through their taxes, if the drainage district takes them down the expenses will be passed along to the citizens in assessments, so either way the taxpayers will pay for them or the landowners will pay for them. Hoffman stated if it is a big project, we may have to go out for bid on the tree removal, and the City may have to do the same. Granzow stated they may do them locally. Hoffman stated if it is over \$50,000 then it has to be sent out for bid.

Paul Handsaker stated we were tagged big time compared to a lot of people in town with our ground base in that district and we did not plant the trees, it is not our responsibility, if I were to build a new shop and tore up county tile, I could not simply say you can go fix it and pay for it. Handsaker stated we did not cause the majority of the trouble and we are going to pay all the cost. Gallentine stated he agrees but drainage code states the district shall be responsible for tree removal. Handsaker stated this is a weird situation with the tile going through town, and there may need to be exceptions made, but understand you have the code to go by, this is hard on us as landowners and this is not a great economic climate right now. Hoffman stated if Chuck had the inventory list and worked with the City Clerk, if they could send out formal notice to anyone with trees, that you can take them down yourself, otherwise, we are going to have to do a mass tree removal and it would cost much more, but someone may have connections with a friend or family member that does tree removal, it might be able to be done a lot cheaper, and save a whole lot of cost. Handsaker stated if we could identify the worst case scenario and take them a few at a time, may be the best scenario. Granzow stated he believes there should be an exception, and that exception is we are talking to the city, and if they agree to take all or some down, any progress is better than no progress, but if we come in for tree removal it is coming in at one shot. Granzow stated the exception is that by talking with the City so that we don't come in as one shot and hopefully we can save the current tile that is in there,

but we have to show some progress, if we are not showing progress we are going to have to do something. Handsaker has still not heard if this is Hiland's problem or if the problem is somewhere closer to his field that is his own problem, but if the tree roots are there we should probably pull them out. Granzow stated the problem has been addressed, no matter whose problem it is, it has been restricted, it is still a problem for the whole district, Granzow did not know if this would solve Hiland's problem, but this situation can't help it, it will become a larger problem if the trees continue to grow.

Raska, stated some of the trees we are talking about are well older than the tile, when we say that the people who planted them caused the problem, some of them have been planted, but the ones Raska saw in the area when they were televised are large, old trees. Gallentine agreed, some may predate the tile, but there is no way the maple trees are 100 years old. Raska stated that is true, some of them are not that old, but they need to go. Gallentine stated the oak and walnut trees may possibly be that old, but he is not worried about those, it is the quick growing trees, like the maple, ash, box elder and mulberry trees. Roll asked if the right of way was 66', Gallentine stated that was what the engineer's report determined, was that it was the same as the City's right of way at 66', the district does have the authority to go out of the right of way to remove trees. Granzow stated if we do have to do that, we are going to have to buy that tree, Gallentine stated there is a damage process. Granzow stated if we can get the trees cut back and improve flow that way, it may give us another 10 to 20 years out of the tile, without making it look as one person stated "a tornado going through town". Hoffman stated if we can chip away it, even if it is one tree every couple months, to show some progress, so that people can't say we are not doing our duty as well. Granzow stated no one wants to pay for it. Raska stated if we did 8 to 10 trees a year, and that would satisfy everybody, that may be possible. Roll suggested he and Raska measure which ones are in the right of way and see if any of those are on the list for the worst trees in the tile, and target those trees right away. Gallentine stated if you took down 8-10 trees a year, you would be done in a couple of years, and some may be out of the right of way, so it should not take too long. Raska stated that may alleviate the district of any liability if it shows progress. Roll stated he thought that was reasonable. Raska stated that was doable, they still have other trimming to do within their budget, but that may be the best route to go, even if we did 6, some years we may be able to do more, some years less, just depends on the year. Granzow asked if we could get a letter sent to those landowners, that this is preventive maintenance for your entire community. Hoffman stated it would be good for the municipal sewer lines as well. Granzow stated he did not want this to turn into another golf course project. Raska asked if the Trustees were still planning on lining the tile. Granzow stated let's try this tree removal and see if things improve, Hoffman agreed.

McClellan asked if it was worth taking down the trees that were dead, although they have too, but would that improve the root situation as those trees are no longer growing. Raska stated they are old and starting to lose limbs, and they are a safety hazard, we have to start there and work our way to the smaller ones, then we can pick out the ones most likely to cause problems. Hoffman stated if the City could present to the Trustees a prioritization list with a time line for removal, whether that needs to be revised to us every 6 months or every year, to document progress and that they are doing something. Raska stated for us that would have to go by safety, then the aggressive trees, then the other trees. Roll asked if CGA had a better breakdown of where the aggressive trees are located within the area, Gallentine would look, Smith can provide Roll with a copy of the report. Granzow asked if it was fair to have the City ask the Trustees to help support some of the financing of the tree removal. Raska asked if the Trustees can legally pay them for the removal. Gallentine stated it may be helpful to discuss that with the drainage attorney if it would be viewed as splitting up the project. Handsaker stated maybe it is enough to let the landowners in the district know trees will be removed and some people can help to get the job done quicker and cheaper. Hoffman suggested that a 28E agreement with the County to bring some equipment in may be an option. Raska stated hauling the tree debris is part of the costs of removal. McClellan stated perhaps some farmers in the area with tractors or trailers could assist with hauling. Roll stated we will make a map and an inventory, Raska stated we can get a priority list together and bring it back to the Trustees and Gallentine. Gallentine stated he would check and see if there is a better map available. Granzow thanked all the participants for their time.

5. DD 25 - WO 1 - Discuss W Possible Action - Change Order No. 5

Smith stated we received a change order from Contractor McDowell. Gallentine stated that Contractor McDowell is requesting another month long extension on the completion date as he has been delayed, his boring subcontractor was delayed a week or two on another project, and we are finally through with the railroad paperwork. Gallentine stated contractor is requesting extension to August 31, 2020 for completion.

Motion by McClellan to approve Change Order 5 and extension of completion time frame to August 31, 2020. Second by Hoffman. All ayes. Motion carried.

6. DD 25 - WO 1 - Discuss W Possible Action - Update

Gallentine stated he spoke with landowner Alvin Clark late last week about this project, Clark questioned why we are removing the old tile, instead of leaving it in place, Gallentine explained if we don't remove the old tile it is really hard to find the private tile connections that we need to reconnect, Clark stated he only has 2 tile in the field and has given McDowell a copy of the map of where the tile are at. Gallentine stated Clark was not worried about that, and doesn't think the mess is worth going through, so Clark has requested we leave the old tile in the field.

Hoffman motioned to leave the existing tile in place on Clark's ground in DD 25, WO 1. Second by McClellan.

Granzow stated that this would now become private tile, Gallentine agreed it is non-functioning tile because it disconnected on the railroad side and on Clark's south side it is disconnected. Granzow stated he did not want problems later with digging this tile up and assuming it is ours, Granzow requested it was noted in the minutes that the district tile left in the ground in Clark's parcel is now private tile, and no future repairs will be done on it by the District.

All ayes. Motion carried.

7. Discuss W Possible Action - IA Falls Industrial Park Site Re-Certification

Smith stated we had a request for a letter on behalf of the Iowa Falls / Hardin County Industrial Rail Park site re-certification, it had been discussed in the past that the site may require relocation of DD 86 tile at owner's expense and this letter states the Trustees would be willing to work with them on this should the need arise. This site would require 250 contiguous acres of land for development be available, and this would require moving the DD 86 tile at owner's expense, this letter provides this endorsement for an additional 5 years.

Motion by Hoffman to approve the industrial site re-certification letter as previously drafted. Second by McClellan. All ayes. Motion carried.

8. Discuss W Possible Action - Drainage Utility Permit Repair Process

Smith stated we had discussed drainage utility permits last week and Smith had a conversation with Gallentine on what actually happens to those permits once they are approved. Smith put together a spreadsheet in Tyler with all of the drainage utility permits that have been issued since we started with that system, and shared the spreadsheet with Gallentine, who added notes as well. Smith stated there were a total of 31 drainage utility permits issued on this list, 23 remain open, 7 are marked complete, and one was a voided permit that was entered incorrectly. Smith stated we still have quite a few of these permits open and was unsure if there is a good mechanism for follow through to make sure once we have issued the permit, and authorized the utility to do the work, that they do what they are required to do in the permit and notify us or CGA that they are actually working near DD tile.

Granzow stated we should add in the permit a time line that states it is void in 60 days or 30 days, they may have done the work and are gone, we may need to look at doing cease and desist on some of these companies that haven't done anything. Granzow continued it is not the contractor that we need to do the cease and desist on, it is the utility company, because the contractor may not ever work in our county again, or it may be both. Gallentine stated it is entirely an honor system on the utility's part to contact us when they are doing their work, and typically whoever gets the permit does not bother giving the contractor all these details, Gallentine finds that when he contacts the contractors they state they did not know they needed to contact you, whether that is true or not or an excuse Gallentine isn't sure. Gallentine stated that Aureon last year took a permit out for at least a dozen districts and only contacted CGA for two of them, it is unclear if they did their install on those other districts or not, CGA invoiced Aureon and they have still not paid CGA's invoices yet, same with IRUA, and there are some things CGA has not billed for yet. Gallentine continued that the IRUA has given the Trustees a check and said here you can use this to pay CGA.

Hoffman stated we have a drainage utility permit process, but what is the penalty if you don't follow the process. Granzow stated a cease and desist is all we can do. Hoffman asked what is the penalty if you get the permit and you don't call CGA, cease and desist. Granzow stated cease and desist, but perhaps we should require a bond or a deposit. Hoffman stated at this point if there are twelve Aureon projects in districts, if they only contacted CGA for two, that leaves 10 that they could have caused damage without us knowing, and who knows what the damages are. Hoffman stated his next question is do we send CGA out to look at those other ten sites to see what has been done, if something has been done, do we have Aureon and their contractor come back out and expose things at their cost, and CGA's expenses to verify would be at their cost, to see what they did or didn't do. Granzow asked if CGA could go onsite and how would they follow up. Hoffman asked if they could tell if there was

fresh dirt turned. Roll asked if Heart of Iowa was part of this discussion or just Aureon. Gallentine stated we have had no problems with Heart of Iowa and they have been great to work with. Gallentine stated if the utility did directional boring, it would be hard to tell if they have done any work, the most you may see is a pedestal somewhere, but we would not know if that is an old pedestal or a new one. Hoffman asked if this is a matter of sending out a letter to verify that the utility has completed all these projects, and if the utility says yes we completed these projects, then we say that since you did not have CGA on site for ten of the twelve, now we are going to require you to go back out and expose them and we want to see what work was done. Granzow stated if they have not, then they need to resubmit for a new application. McClellan stated we have had some bad instances with utilities recently that don't follow through. Hoffman stated it really does not require a much damage to cost people in that district production or livelihood, Hoffman is not ok with that. Gallentine stated as we heard from people in DD 143 that times are not easy and they don't want to spend money, and all of these districts are that way, they don't want to have to repair something they didn't cause.

Hoffman asked if we should have Smith contact Aureon if the remaining ten have been done or not and bring that back to the Trustees, and then say that these ten have had nothing done or they should be closed out, then we can come back in a week or two and get CGA involved with Aureon formally saying. Smith stated there are 23 open, some are from Aureon and some are from the IRUA.

Motion by Hoffman to have Drainage Clerk contact all businesses with outstanding utility permits to verify completion of the project and report back to the Trustees. Second by McClellan.

In additional discussion on the motion, Granzow asked if we would like to give a termination date along with the letter so that they can reapply in case they may state they will not get to the work this year. Hoffman stated the verbiage in the letter should be 14 days in which to reply and then we can move from there, and maybe on the utility process moving forward, we go from 30 days of the date of issuance to complete the project. Smith asked for clarification if the Trustees would like this letter sent only to Aureon or all of the outstanding utility permit holders. Hoffman stated all outstanding permit holders should get a letter. Gallentine stated that Aureon had 17 districts listed in open permits and CGA was only contacted on two. Smith stated many of the permits had multiple districts listed in the wording on a single permit application. Hoffman asked if this should be sent certified mail. Granzow stated it should be sent certified mail. Smith stated we have the contact information of the original requestor on the permit and that is who Smith will direct the letter to. Hoffman stated that Aureon will receive notice for all 15 districts on one letter, Smith stated that would be correct.

All ayes. Motion carried.

Granzow stated Smith also had a question on the Drainage Utility Permit Application also. Smith stated that when we approved the new language in the Drainage Utility Permit Application, Smith updated the website with the new form. Smith directed the Trustees attention to how that application form appears when viewed on the website. Smith stated when we passed the changes she understood that this would be applicable for all utilities on one document and we look at the title of the document as it appears on the website, the title is slightly misleading. If you were to click on the page and look at the application, the title reads "Hardin County Wind Turbine (CWEC) Drainage District Utility Permit Application". Smith stated if I were a natural gas, electric, or fiber optic utility provider, I may look at this and think that does not apply to me, I don't need to do this. Smith asked if we need to change the title of the document so it is a little more clear. Although the document is broken down into Section 1 for regular utilities and Section II for CWECs, perhaps we should retitle the document so it is more clear that it is applicable to all utilities. McClellan asked if we could revise the title to be more inclusive. Hoffman stated it could be revised to read all utilities, such as electric, natural gas, telephone, water, communication etc. Granzow stated yes we would like to change this and asked if we need to put a time restraint on this.

Motion by Hoffman to add a line of acknowledgement to have any approved utility permit application that work be completed within 30 days. Second by McClellan.

In additional discussion on the motion, Hoffman stated guessing for a CWEC project, they will have multiple ones, they will want more than 30 days, and have a time frame included in the development agreement. Hoffman stated he is aware that some projects may need a bigger window just because of the scale of the project. Granzow asked if it should be 30 or 60 days. Smith asked if should read work completed within 30 days unless otherwise specified and approved. Granzow stated he was fine with that, Hoffman agreed. Roll asked if the Trustees would like to combine the regular Utility Permit with the Drainage Utility permit for a joint permit. Smith stated that was up to the Trustees, Section I deals with all utilities, Section II deals with CWECs exclusively, as we look at that form anything in Section I would be trumped by Section II if you are a CWEC, and the language of the form itself covers everyone, it far simpler for Drainage to keep all utilities on one form, Roll stated perhaps his road permit requires him to look at drainage structures as well, but it could be easily done if the Drainage permit is not applicable, that could be a check box, Roll was asking they would like to keep them separate and have people fill out to permits. Granzow asked if this means having people fill out just one total form and we would both have to sign off on it.

Gallentine stated the utilities do a good job of ignoring the second form now and if we combine them they will just think it is the road permit only. Roll asked if they would rather have a separate drainage permit form. The Trustees agreed they would like to keep them separate. Hoffman would like to have the process be a one stop shopping but it is also good to have another set of eyes on it. Granzow stated if Roll would sign off on it then have the Trustees sign off on it if it is in a drainage district, Roll agreed but would also have to have the situation if they are not in a drainage district. Granzow stated let's just keep them separate.

All ayes. Motion carried.

Hoffman asked along with the permitting is there any thing else we can look at, because he does not want this to be a penalty based culture, but at some point there has to be something besides cease and desist, can we require them to have a bond up front so we can send out our own contractor and CGA if they are not willing to go back out and look, because of the 15 from Aureon, Hoffman thinks their work will all already be done. Hoffman continued we can't wait for them to say to us wait for our contractor to get back from Arkansas to dig this up, Hoffman would rather have one of our lottery contractors to go right out and do it. Granzow asked what kind of dollar amount we would set for each crossing, \$5,000 for each crossing. Gallentine stated \$5,000 for each crossing depending on what they install, it could easily take that much, Gallentine did not think it would be more than that per crossing. Granzow stated if we spend the \$5,000, we can make them resubmit that if they did the install incorrectly. Hoffman would rather circumvent the excuses from some large corporation, it is not like calling Heart of Iowa or Radcliffe Telephone Cooperative where you get to talk to someone twelve miles away. Granzow stated in our permitting we should state with a bond required by the Trustees. Hoffman does not want this to burden the good utility operators, but if we find the utility permit has not been utilized properly, that is when the bond should come into play. Meyer stated would the penalty be then that they forfeit, in addition to any other relief, and you could seek the injunction, cease and desist and all that, but they are forfeiting that bond. Gallentine stated the whole problem, with the cease and desist is they can do what rural water does, and say fine we won't put any more lines in but the lines we already have, we are still running water through and making money off of them, so it is not really a cease and desist of the operation, just a cease and desist of future construction. Hoffman stated that only hurts people that need a new water line, which paints us as the bad guys because these guys won't let you have clean water.

Meyer asked if the Trustees would be requiring a development agreement in addition to the permit. Granzow stated the development agreement would only apply to the CWECs, this would just be for regular crossings, they are just not abiding by our permit. Hoffman stated if there are 17 outstanding districts pulled by one company and they have only had CGA come out and observe on two of the Districts, some of those permits are very old and Hoffman is guessing they went out and did the work without any observation, and felt like they could get a hand slap later for it. Granzow stated a bond up front may prevent that. Smith asked if they want the bond per district or per permit, as the utility can list multiple districts they may cross within their project on one permit. Granzow stated bond can be set by Trustees on application. Hoffman stated if a permit for Heart of Iowa comes across their desk they can say no problem, no bond required until you show us you cant be a reputable contractor, there is no need for this. Meyer stated you would have to clearly define what a default is, so if they do work without observation or whatever situation you are trying to fix, and then the default would trigger the forfeit of the bond and any other relief. Granzow stated we would have to pay CGA or someone else to verify the work they were supposed to verify. Hoffman stated if damages have been incurred, who bears the cost of this, because we can't have our lottery people move a fiber optic or a water line. Meyer stated you could have as a consequence of the default that the utility would have to pay legal fees and litigation costs. Granzow stated we are to that point.

McClellan asked if we should have Smith work with Meyer to bring those terms and conditions back to us. Hoffman stated this may pay off significant dividends by making sure facilities are not damaged and they are being well taken care of. McClellan stated Mike Richards may have an idea if other counties have similar language. Hoffman does not want to hand this off to Meyer as this is something we as Trustees can't direct Meyer to do this.

Motion by Hoffman to have Smith reach out to attorney Mike Richards to complete a disclaimer and additional terms and conditions for the Drainage Utility Permit. Second by McClellan.

In additional discussion on the motion, Granzow stated it would be great if Meyer has any additional feedback for Smith that would be great but Meyer is not obligated.

All ayes. Motion carried.

9. Other Business

DD H-F 2 WO 286. Smith received an investigation summary from CGA for this work order, which was discussed at the last joint Franklin-Hardin County meeting that without a landowner request, no improvement or upsizing would be considered, Smith has not received an actual landowner request on this work order. Smith asked if the

Trustees would like Smith to reach out to Franklin County Drainage Clerk to discuss a joint Franklin County Meeting. Smith can reach out in an email to Franklin County for their input. Hoffman stated Smith can let Franklin know what we have received and move forward if new information is brought forward.

DD 4-53 WO 153 - This would be an investigation summary done in the joint county district on a Franklin County work order, it was found to be private tile, and the summary noted a collapsed intake in the road ditch on the Hardin County side that Secondary Roads would need to be notified of to repair. Smith stated she would provide location information to Roll as he was in attendance at todays meeting.

DD 25 - Gallentine updated the Trustees that McDowell is planning on doing the jack and bore under the railroad tracks on next Tuesday.

10. Adjourn Meeting

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



Hardin County

Drainage Claims with Pay Date of 7/31/2020

DD 160 WO 283 - Tile repair, parts, labor, equip.

McDowell & Sons Contractors

4,929.67

Total Regular Payables:	0.00
Total Stamped Warrants:	4,929.67

Drainage District:

26

Repair Summary:

- Per recommendation of investigation summary, installed new of 24" CMP surface drain with anti-seep collar.
- Repaired the existing 24" CMP surface drain, by cutting off damaged end and covering hole in pipe with engineering fabric and 3/4 concrete collar.
- Moved boulders and regraded the area so that surface water would flow to surface drains.

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

See attached Contractor Time and Materials sheet.

Additional Actions Recommended:

- Verify with landowner that the seeding, grading, and clean-up of the area is acceptable as this was performed without CGA representative present.
- Pay landowner/tenant for the approximately 0.14 acres of crop damage to the beans that were planted.



Tabulated Contractor Time and Materials

Date	Totals	6/1/2020	6/2/2020
Workman (hrs)	38.25	23.25	15.00
Mini Excavator (hrs)	15.25	7.75	7.50
Skidloader (hrs)	15.25	7.75	7.50
Compactor (hrs)	8.50	3.50	5.00
Concrete Collars	1	1	
24" CMP Tile (ft)	40.2	20.1	20.1
Crop Damage (ac)	0.14		0.14
Anti-Seep collar (ea.)	1		1



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

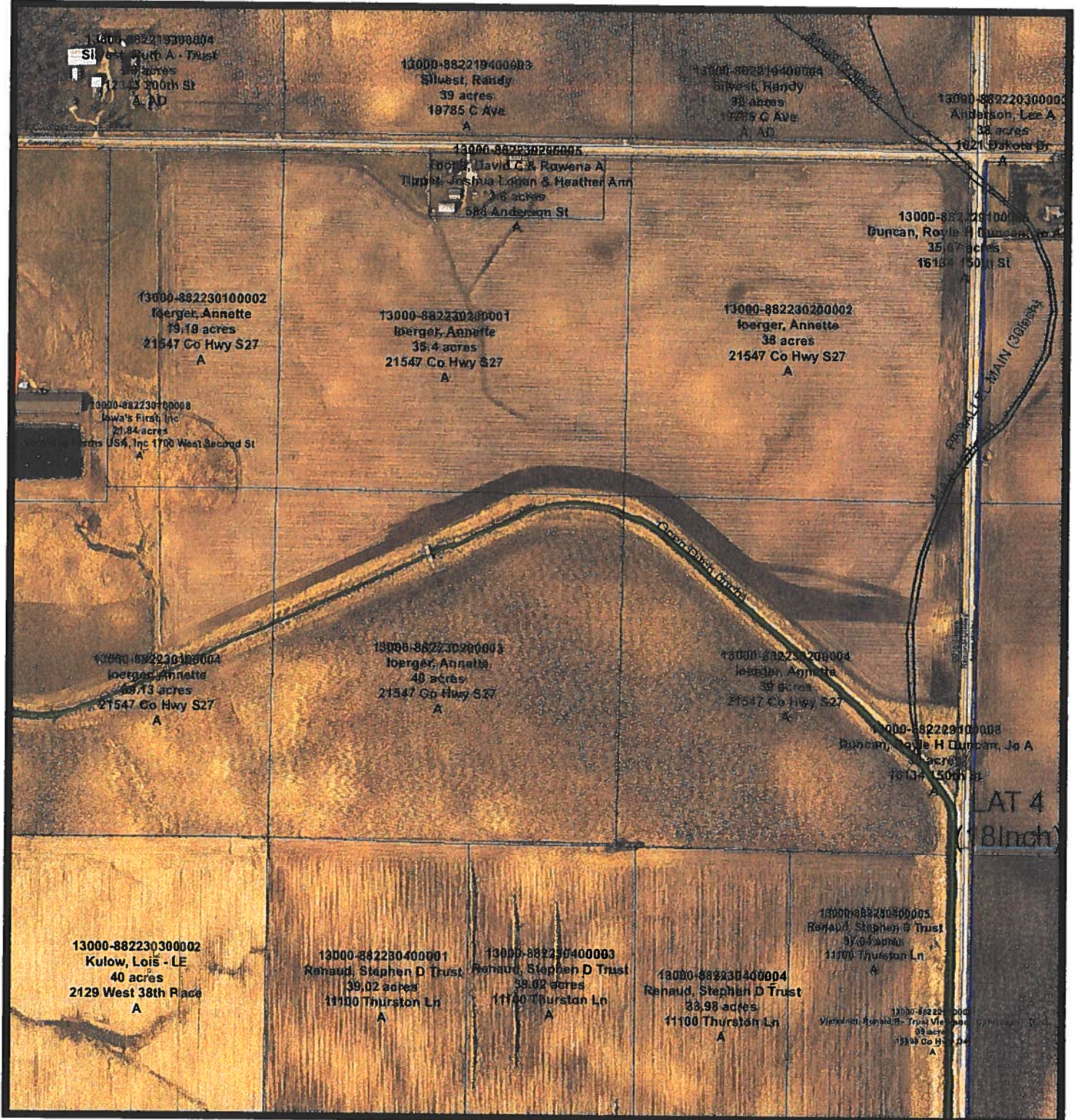
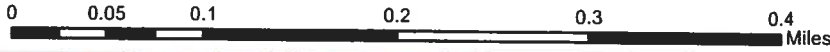
Approved: _____ Date: _____



Hardin County Auditor's Office



Date: 7/31/2019



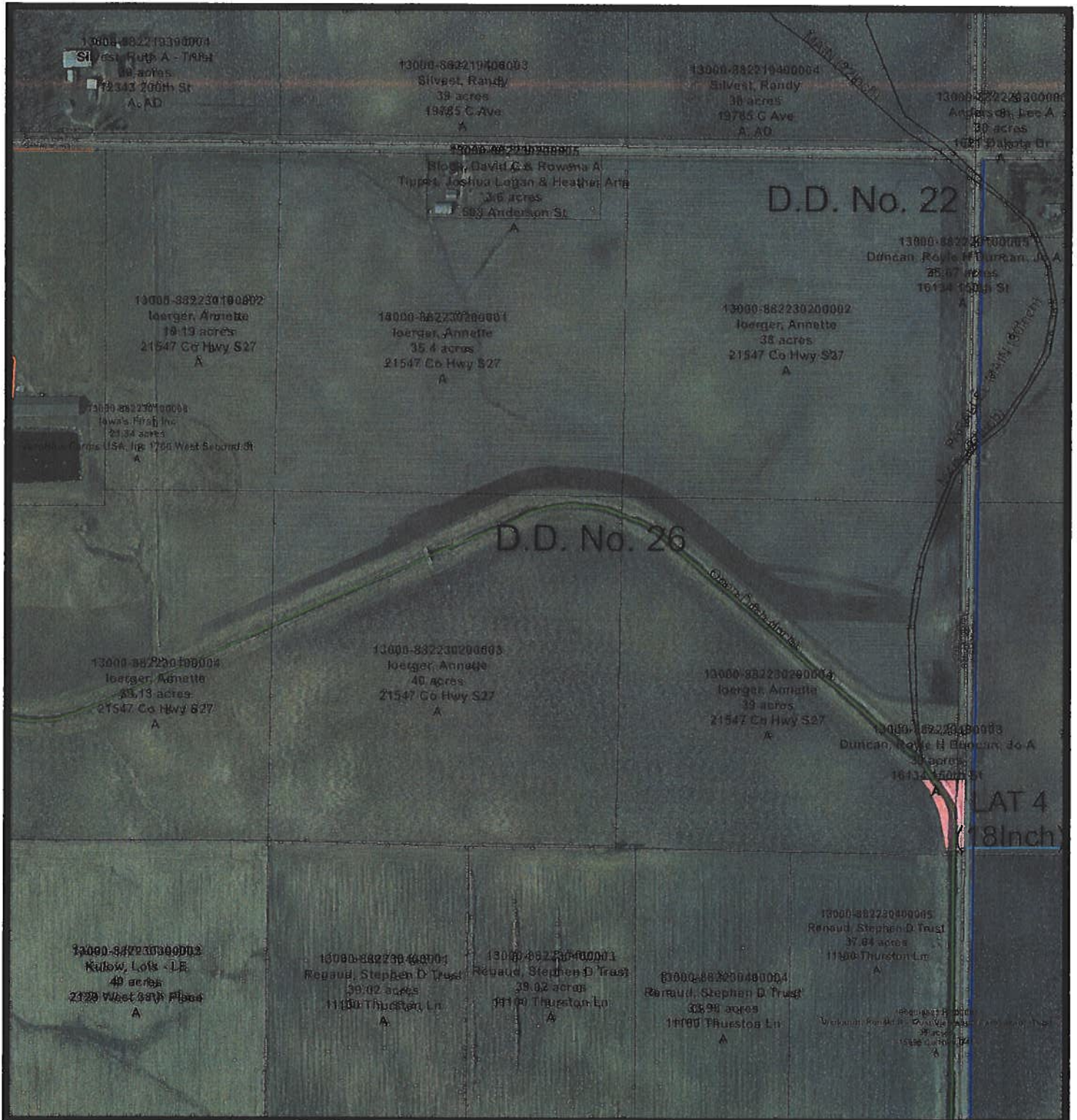
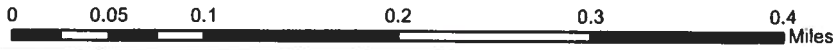
The Data is provided "as is" without warranty or any representation of accuracy, timeliness or completeness. The burden for determining accuracy, completeness, timeliness, merchantability and fitness for or the appropriateness for use rests solely on the requester. Hardin County makes no warranties, express or implied is to the use of the Data. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts the limitations of the Data, including the fact that the Data is dynamic and is in a constant state of maintenance, correction and update. Cadastral Data represents land ownership, but does not define it. This Data does not replace a legal survey.



Hardin County Auditor's Office



Date: 7/31/2019



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CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

06/01/2020

PROJECT NUMBER:

HARDIN COUNTY DDW# 266

DAYS OF WEEK:

S M T W T F S

COUNTY, ROUTE, ROAD:

5055.12 DD# 26
996.4 ± 8 1051.7 ± WEST OF
& CAVE & 1538.6 ± SOUTH
1491.4 ± SOUTH OF 200TH STREET

SHEET NO.

1 OF 4

LOCATION:

SE NE 30-88-22 REPAIR SMASHED
END OF EXISTING 24" CMP INLET &
INSTALL NEW 24" CMP WITH ANTISEEP COLLAR
IN BLOWOUT

LOW 60'S TO UPPER 80'S
SUNNY & WINDY

JOB# 5055 DD26 SURVEY

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

7:25 A.M. OBSERVER LEFT OFFICE FOR JOB SITE.

8:10 A.M. OBSERVER ARRIVED ON SITE WITH CREW NOT ON SITE YET
OBSERVER CALLED ADAM AND INFORMED THAT OBSERVER
WOULD BE SETTING UP GPS BASE. ADAM SAID HE WAS ABOUT
TO JOB SITE AND WOULD BE UNLOADING EQUIPMENT ON 220TH ST.
& CO HWY 5-27,

8:14 A.M. AFTER THINKING ABOUT IT MORE OBSERVER REALIZED THAT
ADAMS CREW WAS AT DIFFERENT LOCATION. OBSERVER DROVE
TO 220TH ST & CO HWY 5-27 TO MET WITH ADAM TO MAKE SURE
WHICH ONE WAS IN WRONG LOCATION.

8:30 A.M. AFTER DISCUSSION, THE REPAIR WAS BACK ON NORTH SIDE
OF DRAINAGE DITCH WEST OF CAVE & SOUTH OF 200TH WHERE
OBSERVER WAS THE FIRST TIME.

8:45 A.M. CREW WAS AT REPAIR LOCATION AND STARTED UNLOADING
EQUIPMENT FOR REPAIR. OBSERVER STARTED SETTING GPS BASE
ON GPS# 26008 5/8" Ø FROWN ROD IN NE COR OF FIELD DRIVE ON
NORTH SIDE OF 200TH ST 1299 ± WEST OF & CAVE.

9:15 A.M. GPS BASE SET UP AND CHECKED INTO GPS# 4895 HARDIN COUNTY
GPS MONUMENT # 8016 WITH GOOD HORIZONTAL POSITION AND
VERTICAL POSITION SHOWING CUT 0.04' TO 0.05' (WITHIN REASON)

9:30 A.M. OBSERVER ARRIVED BACK ON SITE. PERRY LEFT SITE AROUND

9:15 A.M. WITH PICK UP AND TRAILER TO PICK UP 40' OF 24" CMP
& 24" CMP BAND. CARSON AND ADAM WERE AT REPAIR
LOCATION WITH CAT 299D XHP TRACKED SKID LOADER & KOLBELCO
SK85 CS MIN EXCAVATOR FOR EQUIPMENT. CREW STARTED
UNCOVERING EXISTING 24" CMP SURFACE DRAIN. I ADVISED

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

Observer's Signature:

Dean Peering

Date Prepared:

06/01/2020

Reviewed by:

Engineer

Date Reviewed

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

06/01/2020

PROJECT NUMBER:

MARION COUNTY DD W0#266

DAYS OF WEEK:

S M T W T F S

COUNTY, ROUTE, ROAD:

5055.12 DD#26
996.4' ± E 1051.7' ± WEST OF
E CAVE & 1538.6' ± SOUTH & 1491.4' ±
SOUTH OF S 200TH ST

SHEET NO.

2 OF 4

LOCATION:

SE NE 30-88-22 REPAIR SMASHED END
OF EXISTING 24" CMP INLET & INSTALL
NEW 24" CMP WITH ANTISEEP COLLAR
IN BLOWOUT

LOW 60'S TO UPPER 80'S
SUNNY & WINDY

JOB# 5055 DD 26, SURVEY

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

ADAM THAT EXISTING 24" CMP SURFACE DRAIN
DOES NOT NEED REMOVED. NEED TO FIX OR CUT OFF MANGLED
END AND DO SOMETHING WITH PUNCTURED AREA FROM (12 TO 2) (1.5' SOUTH FROM NORTH
END). ASKED LEE ABOUT CMP, HIS THOUGHTS ARE TO CUT OR STRAIGHTEN MANGLED
END OF CMP & COVER WITH FABRIC AND CONCRETE OVER PUNCTURED
AREA.

9:46 A.M. PICTURE # 3617 SEE PICTURE FOR DETAILS.

9:50 A.M. CREW WAS PLACING SOIL BACK ON TOP OF EXISTING 24"
CMP SURFACE DRAIN. EXPOSED PORTION OF 24" CMP HAD
JUST SOME SMALL AMOUNT OF SURFACE RUST. CREW
ALSO STARTED TO REMOVE BOULDERS SET IN DD BANK WASHOUT
ABOUT 72' ± UP STREAM FROM EXISTING 24" CMP SURFACE DRAIN.
TO INSTALL AN ADDITIONAL NEW 24" CMP SURFACE DRAIN. CREW
ALSO STARTED TO GRADE BOTTOM OF TRENCH FOR NEW SURFACE
DRAIN.

10:10 A.M. OBSERVER SHOT GPS# 70500 FL 24" CMP INLET 1133.526
& GPS# 70501 TOP 24" CMP OUTLET 1133.734 TOP

-2.04 TOPTOFL 1133.526 - 1131.694 = 5.33%
1131.694 FL 34.367

CREW WILL SET NEW 24" CMP SURFACE CLOSE TO SAME GRADE
AND ELEVATION.

11:12 A.M. PICTURE # 3618 SEE PICTURE FOR DETAILS

11:30 A.M. CREW STRAIGHTENED UP CRUSHED AND MANGLED
END OF EXISTING 24" CMP INLET.

11:40 A.M. OBSERVER HAD FL SET UP FOR 40' OF NEW 24" CMP
AND STARTED CHECKING GRADE ON BOTTOM OF TRENCH
FOR CREW TO CUT DOWN TOO.

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

Observer's Signature:

Dean Penning

Date Prepared:

06/01/2020

Reviewed by:

Engineer

Date Reviewed

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

06/01/2020

DAYS OF WEEK:

S M T W T F S

PROJECT NUMBER:

HAROLD COUNTY DDW#266

COUNTY, ROUTE, ROAD:

5055.12 DD#26
996.4' E & 1051.7' WEST OF
E CAVE & 1538.6' SOUTH & 1491.4'
SOUTH OF E 200TH ST

SHEET NO.

3 OF 4

LOCATION:

SE NE 30-88-22 REPAIR SMASHED END
OF EXISTING 24" CMP INLET & INSTALL
NEW 24" CMP WITH ANTISERP COLLAR
IN BLOWOUT

LOW 60'S TO UPPER 80'S
SUNNY & WINDY

JOB # 5055 DD 26. SURVEY

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

12:30 P.M. CREW HAD BOTTOM OF TRENCH

ROUGH GRADED AND CREW WAS RUNNING OVER BOTTOM OF TRENCH
WITH MINI EXCAVATOR BEFORE JUMPING JACK COMPACTING BOTTOM
OF TRENCH.

1:00 P.M. CREW STARTED JUMPING JACK COMPACTING BOTTOM OF TRENCH
FOR NEW 24" CMP SURFACE DRAIN IN DD BANK BLOWOUT.

1:14 P.M. PICTURE # 3619, 1:17 P.M. PICTURE # 3620, & 1:21 P.M. PICTURE # 3621 SEE PICTURE FOR DETAILS.

1:40 P.M. OBSERVER SET UP PROPOSED FL FOR NEW 24" CMP TILE

GPS # 70503 FL PROPOSED NEW 24" CMP INLET 1133.53'

GPS # 70502 FL PROPOSED NEW 24" CMP OUTLET 1131.69

$$\frac{1133.53 - 1131.69}{34.37} = \text{GRADE} = 5.35\%$$

2:00 P.M. OBSERVER WAS CHECKING GRADE FOR NEW 24" CMP
SURFACE DRAIN.

3:59 P.M. PICTURE # 3622. SEE PICTURE FOR DETAILS.

4:09 P.M. PICTURE # 3623 SEE PICTURE FOR DETAILS.

4:31 P.M. PICTURE # 3624 & PICTURE # 3625, AND 4:32 P.M. PICTURE # 3626
SEE PICTURE FOR DETAILS.

4:30 P.M. CREW LEFT SITE FOR DAY. OBSERVER SHOT UPSTREAM @
BAND & DOWNSTREAM END @ OUTLET FOR NEW 24" CMP SURFACE DRAIN

GPS # 70506 24" CMP OUTLET FL = 1131.55 = $\frac{1132.54 - 1131.55}{20.05'}$

GPS # 70507 24" CMP @ BAND FL = 1132.54 = $\frac{1132.54 - 1131.55}{20.05'}$ = GRADE 4.938%

4:40 P.M. OBSERVER SHOT BEYOND DAMAGE DURING REPAIR.

4:50 P.M. OBSERVER SET GRADE STAKES FROM FIELD TO
FL OF EXISTING 24" CMP FOR CONTRACTOR

5:08 P.M. PICTURE # 3629, 5:09 P.M. PICTURE # 3630 SEE PICTURE FOR DETAILS.

5:30 P.M. PICTURE # 3631 SEE PICTURE FOR DETAILS.

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

Observer's Signature:

Dean Penning

Date Prepared:

06/01/2020

Reviewed by:

Engineer

Date Reviewed

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

06/01/2020

PROJECT NUMBER:

MARION COUNTY DD#266

DAYS OF WEEK:

S M T W T F S

COUNTY, ROUTE, ROAD:

5055.12 DD#26
996.4' E & 1051.7' WEST OF
E CAVE & 1538.6' SOUTH & 1491.4' S
SOUTH OF E 200TH ST

SHEET NO.

4 OF 4

LOCATION:

SE NE 30-88-22 REPAIR SMASHED END
OF EXISTING 24" CMP INLET & INSTALL
NEW 24" CMP WITH ANTISEEP COLLAR
IN BLOWOUT

LOW 60'S TO UPPER 80'S
SUNNY & WINDY

JOB # 5055 DD 26, SURVEY

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

5:30 P.M. OBSERVER TORE DOWN GPS AND LEFT SITE

QUANTITIES

ADAM 7 3/4 HOURS

CARSON 7 3/4 HOURS

PERRY 4 HOURS 3 3/4 HOURS GETTING SUPPLIES

CAT 299D X HP TRACKED SKIDLOADER 7 3/4 HOURS

KOLBELCO SK85CS MINI EXCAVATOR 7 3/4 HOURS

JUMPING JACK COMPACTOR 3 1/2 HOURS

2- 60 LB BAGS OF ALLSTAR CONCRETE

20' X 20' ENGINEERING FABRIC

20.1 LF 24" CMP WITH 24" CMP BAND & 5 BOLTS

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

Observer's Signature:

Dean Penning

Date Prepared:

06/01/2020

Reviewed by:

Engineer

Date Reviewed

PICTURE# 3617 IS LOOKING SW SHOWING END OF 24" CMP ON SURFACE DRAIN INLET CRUSHED FROM (7 TO 2) AND ABOUT 1.5' BACK WITH A CUT FROM (12 TO 2) ON TOP, EXISTING 24" CMP INLET THAT



SOMETHING TORE INTO CMP.



CPS #70500
FL EXISTING
24" CMP



PICTURE# 3618 IS LOOKING NW SHOWING CREW REMOVING BOULDERS SET IN DRAINAGE DITCH WASHOUT AND GRADING BOTTOM OF TRENCH FOR NEW 24" CMP SURFACE DRAIN.

PICTURE# 3619 IS LOOKING SW SHOWING CREW BACK FILLING SOIL AROUND 24" EXISTING CMP INLET.



PICTURE# 3620 IS LOOKING SW SHOWING CREW JUMPING JACK COMPACTING BOTTOM OF TRENCH FOR NEW 24" CMP SURFACE DRAIN

PICTURE #3621 IS LOOKING NE SHOWING 2 BAGS OF 60 LB QUIKRETE CONCRETE & 2.0'x2.0' PIECE OF FABRIC PLACE OVER EXISTING HOLE TORE IN TOP OF EXISTING 24" CMP.



PICTURE #3622 IS LOOKING NE SHOWING CREW PUSHING IN NEW CMP AFTER BOTTOM OF TRENCH GRADED AND JUMPING JACK COMPACTED.

PICTURE #3623 IS LOOKING NW - SHOWING 40FT OF NEW 24" CMP IN PLACE WITH CREW BACK FILLING LOOSE SOIL AROUND CMP. CREW IS TAMPING WITH SHOVEL SOIL UNDER HAUNCH OF PIPE



PICTURE # 3624 IS LOOKING SW SHOWING CREW JUMPING JACK COMPACTING LOOSE SOIL ON SIDES OF PIPE WITH 24" CMP BAND IN PLACE.

PICTURE # 3625 IS LOOKING SOUTH SHOWING CREW STILL BACKFILLING WITH LOOSE SOIL AND JUMPING JACK COMPACTING SOIL AROUND CMP



N ↓



N ↓

PICTURE # 3626 IS LOOKING SOUTH SHOWING SOIL COMPACTED ON SIDE OF NBW 24" CMP

PICTURE # 3627 IS LOOKING SW SHOWING BOTTOM OF TRENCH GRADED & COMPACTED WITH SOIL BACKFILLED AND COMPACTED AROUND TILE.



GPS # 20506
CMP TOP
NEW 24"
OUTLET
2.04' TO PTO
FL.



PICTURE # 3628 IS LOOKING SE AT OUTLET END OF NEW 24" CMP OUTLET INTO DITCH. PIPE IS BACKFILL AROUND PIPE AND STILL NEEDS MORE COMPACTING.

PICTURE # 3629 IS LOOKING SW SHOWING GRADING STAKES SET FROM FIELD TO FL EXISTING 24" CMP



PICTURE # 3630 IS LOOKING SE SHOWING GRADING STAKES SET TO FL 24" CMP SURFACE DRAIN FROM FIELD

PICTURE # 3631 IS LOOKING SW SHOWING EXISTING 24" CMP
SURFACE DRAIN INLET WITH STRAIGHTENED MANGLED END.
LOOKS LITTLE ROUGH. CREW HAS BACKFILL SOIL AROUND
CMP INLET BUT STILL NEEDS COMPACTED.
GPS # 70500 FL 24"
CMP INLET



N
↓

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

06/02/2020

PROJECT NUMBER: HARDIN COUNTY DDW#266

DAYS OF WEEK:

S M W T F S

COUNTY, ROUTE, ROAD: 5055.12 DD#26
996.4' ± E 1051.7' ± WEST OF
E CLAVE B 1538.6' ± SOUTH 121491.4' ±
SOUTH OF S 200TH ST

SHEET NO.

1 OF 3

LOCATION: SENE 30-88-22 REPAIR SMASHED END
OF EXISTING 24" CMP INLET & INSTALL
NEW 24" CMP WITH ANTISEEP COLLAR
IN BLOWOUT

LOW 70'S TO MID 90'S
SUNNY & WINDY

JOB # 5055 DD 26. SURVEY

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

9:15 A.M. OBSERVER TALKED TO JAMES ABOUT A COUPLE THINGS ON
PROJECT.

9:40 A.M. OBSERVER LEFT OFFICE FOR JOB SITE.

10:20 A.M. OBSERVER ARRIVED ON SITE AND STARTED SETTING UP GPS
BASE ONEPS 2600B 5/8" IRON ROD IN NE CORNER OF FIELD DRIVE
ON NORTH SIDE OF 200TH ST 1299' ± WEST OF CLAVE

10:50 P.M. OBSERVER HAD GPS BASE SETUP AND CHECKED INTO HARDIN
GPS MONUMENT #8086 (GPS#4815) WITH GOOD HORIZONTAL POSITION
AND VERTICAL POSITION SHOWING GUT 0.04' TO 0.05' (WITHIN REASON)

11:00 A.M. OBSERVER ARRIVED ON SITE WITH ADAM AND PERRY ON
SITE SINCE 9:00 A.M. WITH JUMPING JACK COMPACTOR, ROBELO
SK85CS MINI EXCAVATOR, & CASE TR390 TRACKED SKI LOADER
ON SITE FOR EQUIPMENT. CREW WAS WORKING ON GETTING 2ND
24" CMP IN PLACE AND EXCAVATED FOR 7.0' WIDE 24" ANTISEEP
COLLAR

11:40 A.M. CREW WAS WORKING ON FASTENING 2 SECTIONS OF
24" CMP WITH 24" CMP BAND AND GETTING 24" HOPE
ANTISEEP COLLAR IN PLACE.

12:14 P.M. PICTURE #3632, 12:43 P.M. PICTURE #3633 & PICTURE #3634 SEE PICTURE
FOR DETAILS.

12:47 P.M. PICTURE #3635 SEE PICTURE FOR DETAILS.

12:57 P.M. PICTURE #3636, 12:58 P.M. PICTURE #3637, & 12:59 P.M. PICTURE
#3638 SEE PICTURE FOR DETAILS.

1:42 P.M. PICTURE #3640 SEE PICTURE FOR DETAILS.

2:00 P.M. CREW WAS DONE USING JUMPING JACK FOR COMPACTING SOIL.

4:30 P.M. CREW LEFT SITE AND WILL FINISH GRADING AREA TOMORROW.

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

Observer's Signature: Dean Penny

Date Prepared: 06/02/2020

Reviewed by: Engineer

Date Reviewed

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

06/02/2020

PROJECT NUMBER: HAZARD COUNTY DD W0#266

DAYS OF WEEK:

S M Q W T F S

COUNTY, ROUTE, ROAD: 5055.12 DD#26
996.4' E & 1051.7' E WEST OF
E SAVER & 1538.6' T SOUTH & 1491.4' S
SOUTH OF E 200TH ST

SHEET NO.

2 OF 3

LOCATION: SE NE 30-88-22 REPAIR SMASHED END
OF EXISTING 24" CMP INLET & INSTALL
NEW 24" CMP WITH ANTISEEP COLLAR
IN BLOWOUT

LOW 70'S TO MID 90'S
SUNNY & WINDY

JOB# 5055 DD 26, SURVEY

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

4:42 P.M. PICTURE # 3641 & 4:43 P.M. PICTURE # 3643 SEE PICTURE FOR DETAILS.

4:44 P.M. PICTURE # 3644 & 4:45 P.M. PICTURE # 3645 SEE PICTURE FOR DETAILS.

4:46 P.M. PICTURE # 3646 SEE PICTURE FOR DETAILS.

5:00 P.M. OBSERVER ADJUST SOME OF BEAN DAMAGE SHOTS, TORE
DOWN GAS AND LEFT SITE. OBSERVER WILL CHECK OVER
SITE AFTER CREW IS DONE FINE GRADING AND
HAS IT SEEDS.

QUANTITIES

ADAM 7 1/2 HOURS

PERRY 7 1/2 HOURS

KOLBELCO SK85CS MINI EXCAVATOR 7 1/2 HOURS

CASE TR340 TRACKED SKIDLOADER 7 1/2 HOURS

JUMPING JACK COMPACTOR 5 HOURS

20.1 LF 24" CMP

24" HDPE ANTISEEP COLLAR (ONLY PARTIAL ON TOP) ^{METAL} 2 BANDS 10 BOLTS TO FASTEN

1 CAN OF FOAM FILL (SEAL HDPE ANTISEEP COLLAR TO 24" CMP, SUOAS CALLS
(INFORMED CONTRACTOR IT SHOULD BE BITUMINOUS) FOR BITUMINOUS MATERIAL FOR SEALING)

TRUCK AND TRAILER TO HAUL 2 BOULDERS OFF SITE

BEAN DAMAGE DURING REPAIR 0.14 ACRES

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

Observer's Signature: Dean Penny

Date Prepared: 06/02/2020

Reviewed by: _____ Engineer

Date Reviewed: _____

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

06/02/2020

PROJECT NUMBER: MARION COUNTY DDW#266

DAYS OF WEEK:

S M W T F S

COUNTY, ROUTE, ROAD: 5055.12 DD#26
996.4' ± E 1051.7' ± WEST OF
EAVE & 1538.6' ± SOUTH & 1491.4' ±
SOUTH OF S 200TH ST

SHEET NO.

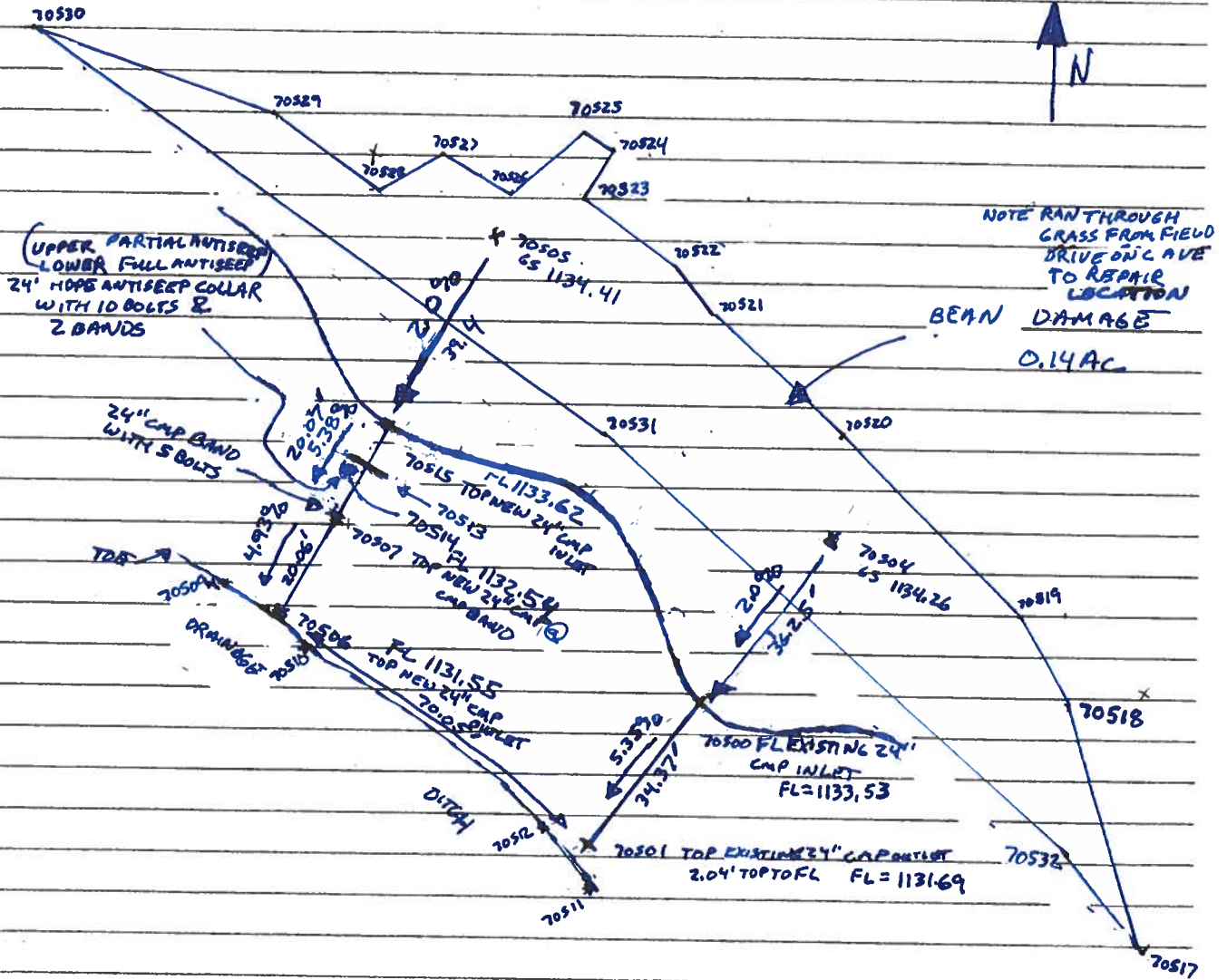
3 OF 3

LOCATION: SE NE 30-88-22 REPAIR SMASHED END
OF EXISTING 24" CMP INLET & INSTALL
NEW 24" CMP WITH ANTISEEP COLLAR
IN BLOWOUT

LOW 70'S TO MID 90'S
SUNNY & WINDY

JOB # 5055 DD 26, SURVEY

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



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

Observer's Signature: Dean Penning

Date Prepared:

06/02/2020

Reviewed by: _____

Engineer

Date Reviewed: _____

5055.12 / 100 Z6

NOTE EXISTING 24" CAMP INLET 185.8' ± WEST OF EC AVE & 1525' ± SOUTH OF E 200TH ST
NEW CAMP INLET 1531.4' ± SOUTH E 200TH ST & 1051.74' WEST OF EC AVE

Layers Map

- Layer List Legend
- Quick Links:
 - Property Search
 - View Map
 - Drainage District Search

- Layers:
 - Address
 - Corporate Limits
 - Political Townships
 - Geographic Townships
 - Sections
 - Subdivision Annotation
 - Subdivisions
 - Lot Annotation
 - Lot Lines
 - Road Dimensions
 - Roads
 - Road ROW
 - Railroad Annotation
 - Railroads
 - Railroad ROW
 - Water
 - Parcel Dimensions
 - Parcels
 - Drainage Tiles
 - Drainage Districts
 - Cartography
 - Landuse
 - Soils
 - Enterprise Zones
 - Conservation Property
 - Structures
 - Garden Winds Turbines
 - Airport Protected
 - Airspace Surfaces
 - Two Mile Boundary
 - School Districts
 - Voting Districts
 - LOMR

2000
+ -

200002

882229100005

LOCATION NEW 24" CAMP
LOCATION OF EXISTING
24" CAMP

NOTE USED
THIS FIELD
DRAINS AND
PROVEET THROUGH
GRASS TO ACCESS
REPAIR AREA
882229100003

CAVE

882260200004

882260200003

200 FT



PICTURE# 3632 IS LOOKING SE SHOWING CREW INSTALLING 2ND NEW 24" CMP WITH 24" CMP BAND & 5 BOLTS.



PICTURE# 3633 IS LOOKING NW SHOWING 24" HDPE ANTISEEP COLLAR IN PLACE WITH 2 BANDS AND 5 BOLTS FASTENING LOWER ANTISEEP AND PARTIAL UPPER ANTISEEP HDPE COLLAR ONE EAST SIDE

PICTURE #3634 IS LOOKING NE AT 2 BANDS AND 5 BOLTS FASTENING LOWER ANTISEEP AND PARTIAL UPPER ANTISEEP.

↖ N



↖ N



PICTURE # 3635 IS LOOKING NW SHOWING CREW JUMPING JACK COMPACTING SOIL AROUND 24" HDPE ANTISEEP COLLAR.

PICTURE # 3636 IS LOOKING EAST SHOWING CREW USING FOAM FILL TO SEAL BETWEEN HDPE ANTISEEP COLLAR AND 24" CMP SURFACE DRAIN, (SUDAS SHOWS SHOULD BE BITUMINOUS MATERIAL)

N



N

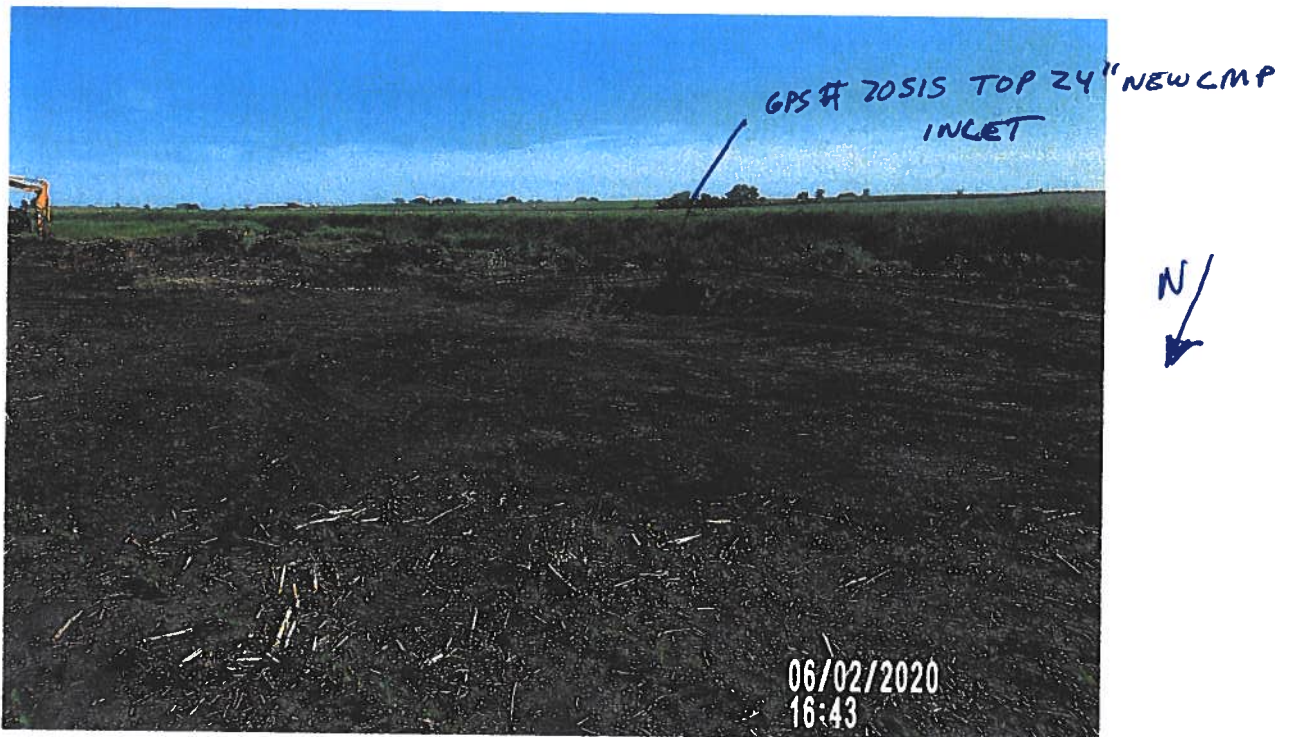
PICTURE # 3637 IS LOOKING SE SHOWING CREW USING FOAM FILL TO SEAL BETWEEN HDPE ANTISEEP COLLAR AND 24" CMP SURFACE DRAIN. (SUDAS SHOWS SHOULD BE BITUMINOUS MATERIAL)

PICTURE # 3638 SHOWING FOAM FILL USED TO SEAL VOID BETWEEN HDPE ANTISEEP COLLAR AND CMP SURFACE DRAIN (OBSERVER INFORMED CREW THAT SUDAS CALLS FOR BITUMINOUS MATERIAL AND THIS IS WHAT CREW BROUGHT BACK)



PICTURE # 3640 IS LOOKING SOUTH SHOWING BACK FILL SOIL AROUND 24" CMP WITH CREW USING JUMPING JACK COMPACTOR TO COMPACT SOIL AROUND CMP.

PICTURE #3641 IS LOOKING SE AT 0.14' AC OF BEAN
DAMAGE DURING REPAIR



PICTURE # 3643 IS LOOKING SE SHOWING AREA AROUND
NEW 24" CMP INLET STILL WEEDING GRADED. CREW
WILL FINE GRADE TOMORROW.

PICTURE # 3644 IS LOOKING SW SHOWING AREA AROUND
EXISTING 24" CMP INLET STILL NEEDING GRADED. CREW
WILL FINE GRADE TO MORROW,



GPS# 20507 TOP 24" NEW CMP. OUTLET



PICTURE # 3645 IS LOOKING AT NEW 24" CMP OUTLET AT DRAINAGE
DITCH

PICTURE # 3646 IS SHOWING 2 BOULDERS THAT CREW
IS MAULING OFFSITE,



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

06/18/2020

DAYS OF WEEK:

S M T W ④ F S

SHEET NO.

1 OF 1

PROJECT NUMBER: HARDIN COUNTY DDWA#266
SOSS.12 DD#126
COUNTY, ROUTE, ROAD: 996.4'± & 1051.7'± WEST OF
E CAVE & 1538.6'± SOUTH & 1491.4'±
SOUTH OF E 200TH ST
LOCATION: SE NE 30-88-22 REPAIR SMASHED END
OF EXISTING 24" CMP INLET & INSTALL
NEW 24" CMP WITH ANTISEEP COLLAR
IN BLOWOUT

MID 60'S TO MID 80'S MOSTLY
CLOUDY AND BREEZY
JOB# 5055 DD26 SURVEY

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

1:20 P.M. OBSERVER ON SITE TO CHECK OVER GRADING AROUND
EXISTING SURFACE DRAIN AND NEW SURFACE DRAIN.

1:20 P.M. PICTURE # 3831 & PICTURE # 3832 SEE PICTURE FOR DETAILS.

1:21 P.M. PICTURE # 3833 & PICTURE 3834 SEE PICTURES FOR DETAILS.

1:22 P.M. PICTURE # 3835, 1:23 P.M. PICTURE # 3836, PICTURE # 3837, &
PICTURE # 3838 SEE PICTURE FOR DETAILS.

1:24 P.M. PICTURE # 3839, 1:25 P.M. PICTURE # 3840 & PICTURE
3841 SEE PICTURE FOR DETAILS.

1:30 P.M. OBSERVER LEFT SITE AFTER TAKING PICTURES OF
FINAL GRADING.

CREW SAID THEY SEEDED AREA BUT DID NOT SEE MUCH
GRASS GROWING YET.

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

Observer's Signature: Dean Penning

Date Prepared: 06/18/2020

Reviewed by: _____ Engineer

Date Reviewed _____

PICTURE# 3831 IS LOOKING SE SHOWING DD NORTH BANK
NEEDING DRESS UP YET

GPS 70506 NEW 24" CMP OUTLET



GPS # 70506 NEW CMP OUTLET



PICTURE# 3832 IS LOOKING SE SHOWING DD NORTH BANK
NEEDING DRESSED UP ON WEST SIDE OF NEW CMP
OUTLET

PICTURE #3833 IS LOOKING NW SHOWING BOULDERS IN DD BANK FOR A FILLED IN WASHOUT BETWEEN NEW AND EXISTING SURFACE DRAIN. NEEDS DRESSED UP / GPS#70506 NEW CMP OUTLET



GPS# 70515 TOP 24" CMP INLET
2.05' TOP TO FL



PICTURE #3834 IS LOOKING SW AT NEW SURFACE DRAIN INLET WITH WATER STARTING TO ERODE UNDER CMP

PICTURE # 3835 IS LOOKING NW SHOWING SOIL GRADED OVER SURFACE DRAINS AND CREW SAID THEY SEEDED IT



06/18/2020
13:22

AREA SETTLED WHERE CREW EXCAVATED FOR SOME BETTER SOIL TO BACKFILL AROUND SURFACE DRAINS



SMALL WASHOUT WITH ROCKS IN IT

CORN STALKS ON TOP WHERE WATER WENT OVER AND RAN TO WASHOUT

06/18/2020
13:23

PICTURE # 3836 IS LOOKING SW SHOWING AREA GRADED TO EXISTING SURFACE DRAIN BUT NO GRASS GROWING

PICTURE # 3837 LOOKING SOUTH AT LOW AREA WHERE GRASS NOT GROWING VERY WELL,

DD BANK ERODED FROM WATER RUNNING TO DD SMALL WASHOUT WITH BOULDERS MAY NEED TO GRADE LOW AREA TO GET FLOW TO SURFACE DRAIN BY ADDING MORE SOIL



06/18/2020
13:23

DD BANK NEEDS DRESSED UP



06/18/2020
13:23

PICTURE # 3838 IS LOOKING SW SHOWING SOIL STARTING TO ERODE UNDER INLET OF NEW 24" CMP INLET. AND GRASS NOT GROWING.

PICTURE # 3839 IS LOOKING NW SHOWING AREA
ALONG FIELD NW OF NEW 24" CMP WHERE GOOD SOIL
WAS EXCAVATED FOR BACK FILL AROUND CMP AND BACK FILLED



AREA
HAS
SETTLED
NOW



PICTURE # 3840 IS LOOKING NW OF NEW 24" SURFACE
DRAIN SHOWING NORTH BANK WEEDING DRESSED UP
AND SOIL PACKED IN.

PICTURE #3841 IS LOOKING SE SHOWING DD BANK BETWEEN
EXISTING AND NEW OUTLET NEEDING DRESSED UP WITH SOIL IN
WASHOUT FILLED WITH BOULDER AND ALL BOULDERS TAPPED

INTO
BANK





Drainage Work Order Request For Repair

Hardin County

Date: 7/24/2020

Work Order #: WO00000299

Drainage District: DDs\DD 41 (51066)

Sec-Twp-Rge: 12-88-22 **Qtr Sec:** NE 1/4 NE 1/4

Location/GIS: 88-22-12-400-002

Requested By: Chris Blome

Contact Phone: (641) 751-3936

Contact Email: _____

Landowner (if different): John Liitschwager

Description: DD 41 - Chris Blome reports 3' blowout on DD 41 Main tile in parcel #882212400002, in SE corner of field. Can be accessed from drive on H Ave., follow grassy waterway west into field, blowout is in waterway and is flagged.

Repair labor, materials and equipment: _____

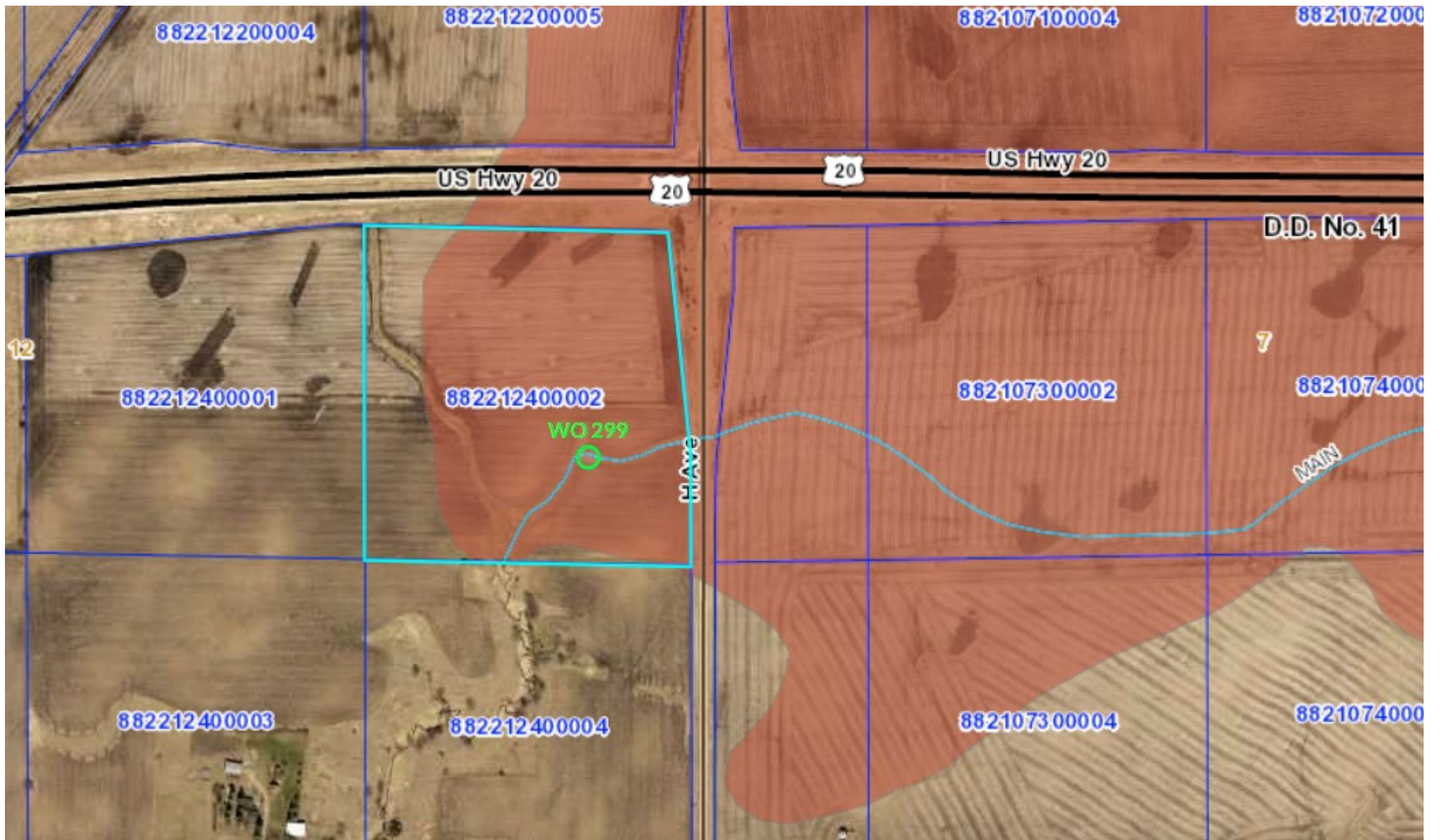
Repaired By: _____ **Date:** _____

Please reference work order # and send statement for services to:

Hardin County Auditor's Office
 Attn: Drainage Clerk
 1215 Edgington Ave, Suite 1
 Eldora, IA 50627
 Phone (641) 939-8111
 Fax (641) 939-8245

For Office Use Only

Approved: _____ **Date:** _____





Drainage Work Order Request For Repair

Hardin County

Date: 6/3/2020

Work Order #: WO00000295

Drainage District: DDs\DD 121 (51136)

Sec-Twp-Rge: 30-86-20 **Qtr Sec:** _____

Location/GIS: 86-20-30-400-003

Requested By: Tom Gilmore

Contact Phone: (515) 450-1942

Contact Email: _____

Landowner (if different): George C Fagg Heirs

Description: DD 121 - Tom Gilmore reports blow out/ plugged tile and water running across the field on parcel #862030400003.

Repair labor, materials and equipment _____

Repaired By: _____ **Date:** _____

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

For Office Use Only

Approved: _____ **Date:** _____

Drainage District:

#121

Investigation/Repair Summary:

- Tenant in the SW¼ SE¼ Section 30, Township 86 North Range 20 West reported a blowout/sinkhole, with the tile plugged, and water flowing overland as a result.
- Visual observation found a wet area on the north fenceline, multiple wet areas in the grass swale, a blowout/sinkhole, and water running overland to the downstream of the observed blowout/sinkhole. Also found exposed tile, multiple pieces of broken tile and in the in the field, and large rocks and remnants of trees that had been removed just downstream of the blowout/sinkhole.

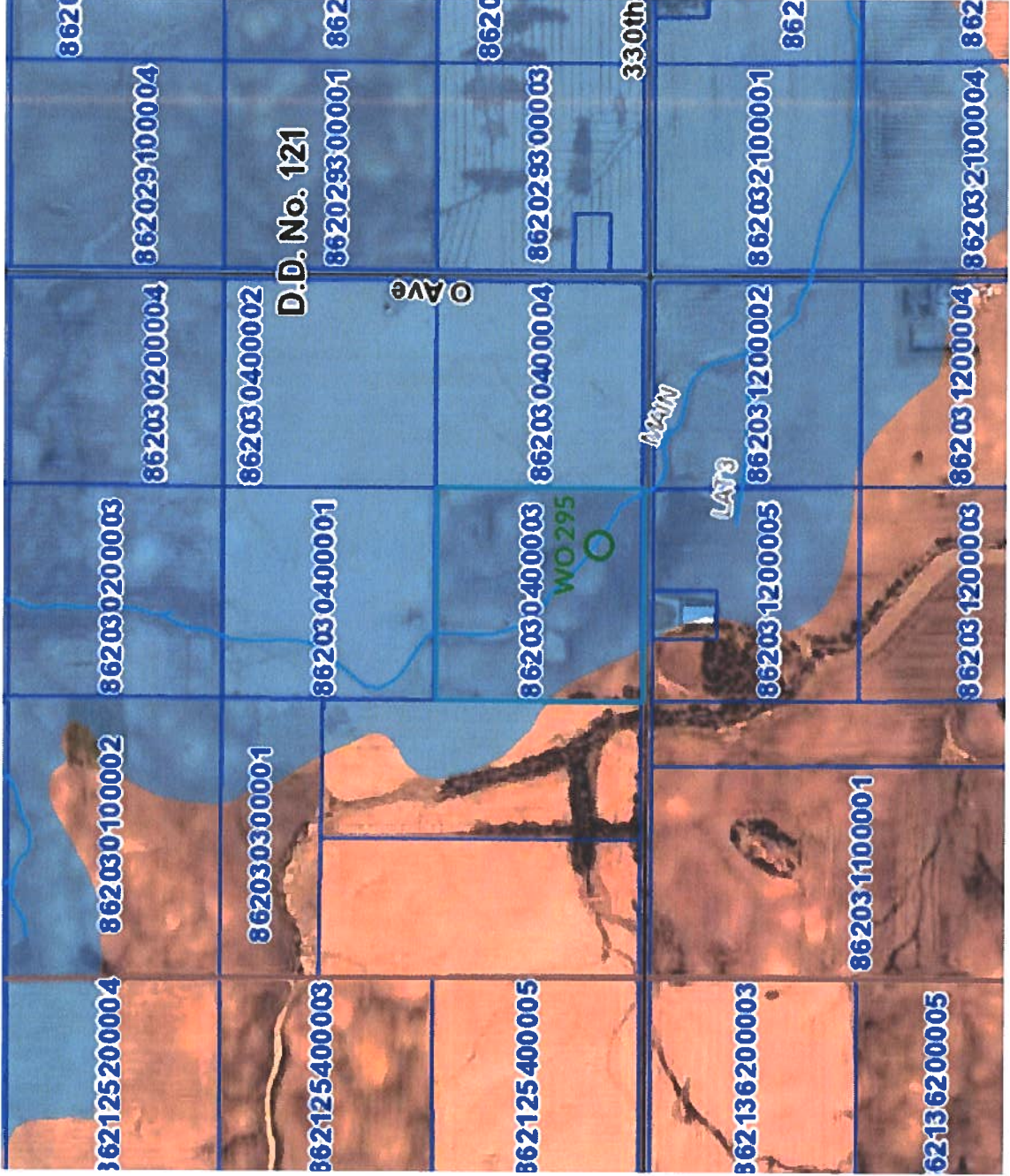
Contractor Time and Materials (spent while CGA was on-site):

None recorded as only visual observation was performed.

Additional Actions Recommended:

Due to the lack of soil cover over the tile, broken pieces of tile found in the field, and recently cut trees, CGA recommends locating and CCTV inspecting the tile in both directions from the blowout/sinkhole as the observed issue may be due to a larger-scale deterioration of the Main tile's physical condition.





8620

862125200004

862030100002

862030200003

862030200004

862029100004

8620

862125400003

862030300001

862030400001

862030400002

D.D. No. 121

862029300001

8620

862125400005

862030400003

862030400004

862029300003

8620

862136200003

862031200005

862031200002

862032100001

8620

862136200005

862031200003

862031200004

862032100004

8620

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

6/12/20

PROJECT NUMBER:

6934.1

DAYS OF WEEK:

S M T W T F S

COUNTY, ROUTE, ROAD:

DD 121 HARDIN - MARSHALL Co.

SHEET NO.

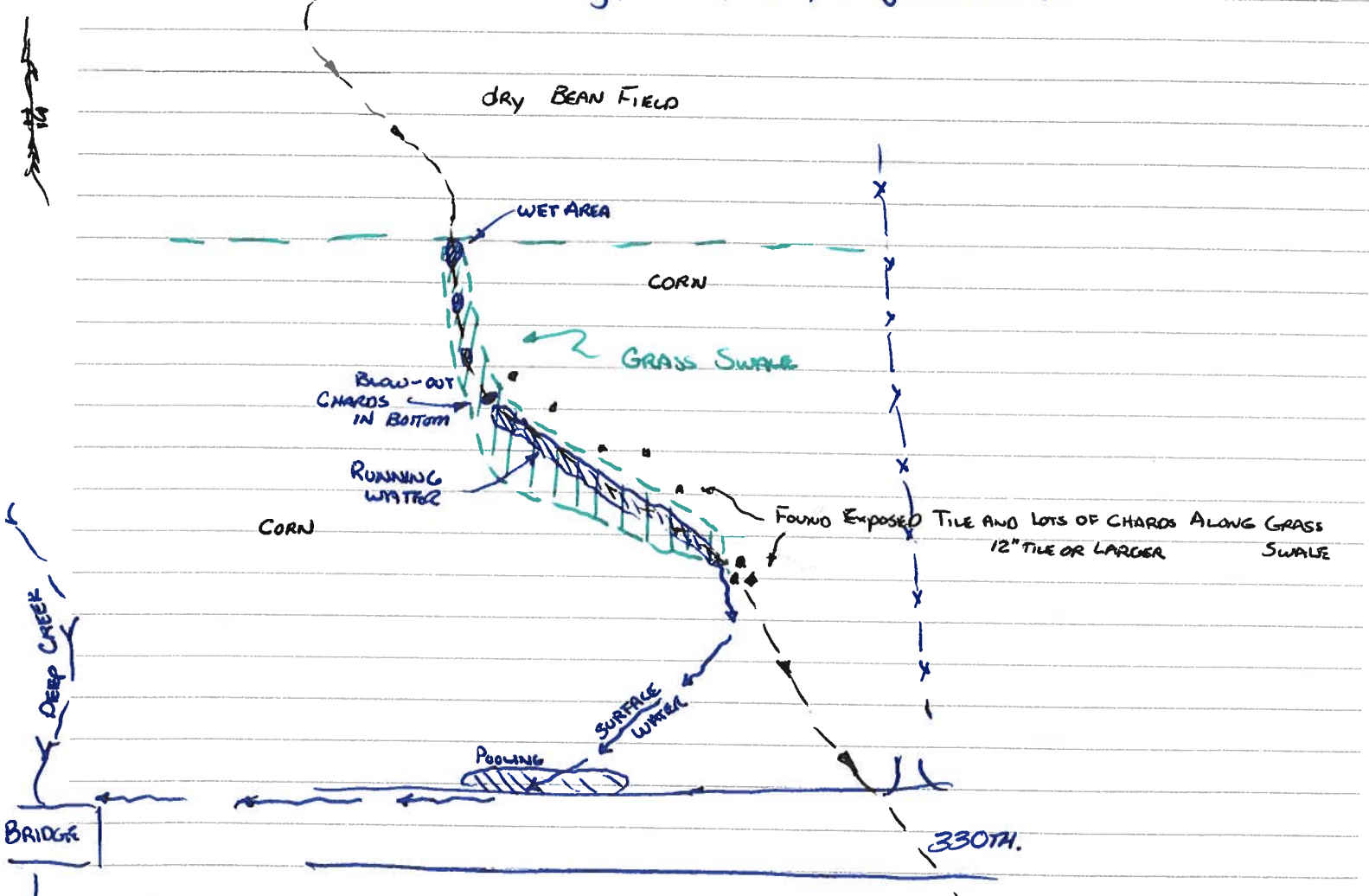
1 OF 1

LOCATION:

HARDIN Co. W.O. # 295

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

Sunny, Calm, 80°, dry Conditions



Parked @ 1/4 1/4 cor, WALKED TILE ROUTE FOLLOWING CHARDS IN FIELD 12" + CLAY. FOUND NOISY WATER RUNNING OUT OF GRASS SWALE TO N. SIDE OF 40 ACRES. IT LOOKS LIKE TILE IS VERY SHALLOW OR REMOVED IN SWALE AREA. SOME WATER IN SWALE IS 2' DEEP. I HAVE NO IDEA WHY TILE DOESN'T RUN TO CREEK

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

Observer's Signature: [Signature] Date Prepared: 6/12/20

Reviewed by: _____ Engineer _____ Date Reviewed _____

LOOKING NW ON TILE ROUTE



LOOKING SE FROM TIRE CHAINS ON MAIN ROUTE



Exposed TILE CHARDS @ SE COR. OF GRASS SWALE



START OF GRASS SWALE



WATER RUNNING IN 2' DEEP TRENCH IN SWALE



TREES CUT DOWN LAST YEAR



TREES JUST DOWNSTREAM FROM Blow-out



BLOW-OUT, CAN HEAR WATER





HARDIN COUNTY

Auditor's Office

JESSICA LARA | COUNTY AUDITOR
& COMMISSIONER OF ELECTIONS

1215 EDGINGTON AVE., SUITE 1
ELDORA, IA 50627
641.939.8108
JLARA@HARDINCOUNTYIA.GOV

July 27, 2020

Midland Power Cooperative
1005 E Lincolnway
Jefferson, IA 50129

Attn: Casey Huff

RE: Hardin County Drainage District Utility Permitting Process and Conditions

To Whom It May Concern:

The Hardin County Drainage Districts and its Board of Trustees (collectively as "Trustees") have become aware of violations and failure to comply with the drainage utility permitting process lawfully established pursuant to Iowa Code Section 468.186, which states, in pertinent part, as follows:

When any person proposes to construct a pipeline, electric transmission line, communication line, underground service line, or other similar installations on, over, across, or beneath the right of way of any drainage or levee district, such person shall, before beginning construction, obtain from the drainage or levee district an easement to cross the district's right-of-way. The governing body of the district shall require such person to agree to comply with subsection 3 of this section and may, as a condition of granting such easement, attach thereto such additional conditions as they deem necessary. When the necessary easement has been obtained, such person shall construct the installation at the person's own expense and shall pay all costs of any reconstruction, relocation, modification, or reinstallation of the drainage or levee district's facility which may be necessary as a result of construction of the installation for which the easement was granted.

The Trustees have become aware of repeated violations of these mandatory obligations by a select few entities in the utility field. The failures include but are not limited to: a failure to give the Drainage District 24 hour notice of its intention to commence construction on any lands within the jurisdiction of the Drainage District, to obtain proper locates, failure to inspect tile after repairs are completed, failure to pay all costs of any reconstruction, relocation, modification, or reinstallation of the drainage or levee district's facility which may be necessary as the result of construction of the installation for which the easement was granted, and other such failures.

Having received no such notice of intent to commence construction, the Trustees have directed me to request the current status of your company's projects in drainage districts as reflected in the list of outstanding and approved Utility Permit(s) Across Drainage Districts below:

Date:	11/18/2019
Hardin County Permit #:	2019-3
Utility Type:	Overhead Electrical
Drainage District Crossed:	DD 150
Facilities Crossed:	DD 150 Main
Description of Work:	Installation of overhead 3 phase line rebuild 3.5 miles along D41. Map 74 Sections 32, 33, 34 and 35.



HARDIN COUNTY

Auditor's Office

JESSICA LARA | COUNTY AUDITOR
& COMMISSIONER OF ELECTIONS

1215 EDGINGTON AVE., SUITE 1
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JLARA@HARDINCOUNTYIA.GOV

Date: 2/28/20
Hardin County Permit #: 2020-1
Utility Type: Overhead Electrical Primary Line
Drainage District Crossed: DD 142 & Big Four
Facilities Crossed: DD 142 – Lat 4, Lat 6, Lat 3, Main & DD Big Four Main
Description of Work: Overhead line rebuild 1.5 miles along south side of 120th Map 66, Sec 17 & 18.

Date: 02/28/2020
Hardin County Permit #: 2020-3
Utility Type: Overhead Electrical Primary Line
Drainage District Crossed: DD's 38, 46, Big Four, F-H 5-75
Facilities Crossed: DD 46 Main, DD 38 Lat 7, Big Four Lat 1 & 4
Description of Work: Overhead line rebuild, 1.5 miles along east and west side of C Ave. Map 66 Sections 04 & 10.

Date: 03/25/20
Hardin County Permit #: 2020-5
Utility Type: Overhead Electric
Drainage District Crossed: DD Big Four
Facilities Crossed: DD Big Four Main & Lat 1
Description of Work: Overhead line rebuild 4 miles, Alden Township, Sections 04, 05, 06, and 08.

Date: 04/01/20
Hardin County Permit #: 2020-6
Utility Type: Overhead Electrical Distribution
Drainage District Crossed: DD's 56 & 168
Facilities Crossed: DD 56 Lat's 41, 42, 46, 47, and DD 168 Open Ditch
Description of Work: Three mile overhead line rebuild, Sherman Twp., Sections 08, 17, & 19

Date: 04/02/2020
Hardin County Permit #: 2020-7
Utility Type: Overhead Electrical Distribution
Drainage District Crossed: JDD H-H 4-122 & DD 55-2
Facilities Crossed: JDD H-H 4-122 Main
Description of Work: One mile overhead line rebuild, Sherman Twp., Section 19

Date: 04/17/20
Hardin County Permit #: 2020-8
Utility Type: Overhead Electrical Distribution
Drainage District Crossed: DD's 123, 31, 20, 26, H-H 104-222
Facilities Crossed: DD 26 Main, Lat 1, Supplemental Tile, DD 31 Main, DD 20 Main, DD 26 Open Ditch
Description of Work: Four miles overhead line rebuild, along D41, Buckeye Twp., Sections 27, 28, 29, and 30.



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Date: 04/21/2020
Hardin County Permit #: 2020-9
Utility Type: Overhead Electrical Distribution
Drainage District Crossed: DD 106
Facilities Crossed: DD 106 Main and Lat 2
Description of Work: Two mile line rebuild along 240th St., Tipton Twp., Sections 8 & 9

Date: 05/01/2020
Hardin County Permit #: 2020-10
Utility Type: Overhead Electrical Distribution
Drainage District Crossed: DD's 32 and 3
Facilities Crossed: DD 32 Main, DD 3 Lat 1
Description of Work: Overhead line rebuild 1.5 miles along H Ave., Alden Twp., Sections 29 & 32

Date: 06/05/20
Hardin County Permit #: 2020-11
Utility Type: Overhead Electrical Distribution
Drainage District Crossed: DD 10
Facilities Crossed: DD 10 Main
Description of Work: Rebuilding 3 miles overhead electrical distribution, Buckeye Twp., Sections 3, 10, 14, and 15.

A copy of the original Drainage Utility Permit Application(s) is enclosed.

Please advise of the status of this project(s), whether work is ongoing or complete. If work on this project(s) has been completed, please include completion date, a brief description of the scope of work completed and contractor or subcontractor utilized.

To continue an open dialogue with our Utility Applicants, your cooperation in this matter is appreciated. Please direct your response within 14 days of receipt of this certified letter to the Hardin County Drainage Clerk, Denise Smith.

To schedule a meeting with the Trustees to discuss intended future compliance, please make request to the Drainage Clerk, Mrs. Smith may be contacted at:

Denise Smith
Drainage Clerk
Hardin County Auditor's Office
1215 Edgington Ave., Suite 1
Eldora, Iowa 50627
Tel: 641-939-8111
Email: dsmith@hardincountyia.gov



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The Trustees reserve any and all claims and causes of action against Midland Power Cooperative related to these matters and correspondence shall not be deemed a waiver of any rights.

Sincerely,

Denise Smith



DENISE SMITH

DRAINAGE CLERK

HARDIN COUNTY

1215 EDGINGTON AVENUE

ELDORA, IOWA 50627

AUDITOR'S OFFICE

OFFICE: 641.939.8111

FAX: 641.939.8245

Enclosure(s)