AGENDA REGULAR DRAINAGE MEETING Wednesday, August 19, 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 meeting 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:

08_05_20 - DRAINAGE MINUTES.PDF 08_12_20 - DRAINAGE MINUTES.PDF

- 4. DD 22 WO 176 Discuss W Possible Action Completion Hearing
- DD 121 WO 295 Discuss W Possible Action Investigation Summary / Landowner Meeting

Documents:

DD 121 WO 295 -6934.1 - INVESTIGATION SUMMARY - 07_24_2020.PDF

6. DD 48 - WO #237 Discuss W/ Possible Action - Repair Summary

Documents:

DD 48 WO 237 - 6486.4 - REPAIR SUMMARY - 08_03_20.PDF

7. DD Big 4 Lat 4 - WO 195 - Discuss W Possible Action - Repair Summary

Documents:

DD BIG 4 LAT 4 - WO 195 - 5585.1 - REPAIR SUMMARY - 08_03_2020.PDF

8. DD Big 4 Main - WO 247 - Discuss W Possible Action - Repair Summary

Documents:

9. JDD H-H 118-232 WO 281 - Discuss W Possible Action - Repair Summary

Documents:

DD H-H 118-232 -WO 281 - 8778.1 - REPAIR SUMMARY - 08_03_2020.PDF

- 10. Discuss W Possible Action Drainage Utility Permit Process
- 11. Other Business
- 12. Adjourn Meeting

REGULAR DRAINAGE MEETING Wednesday, August 5, 2020 9:30 AM This meeting was held electronically and in-person due to Covid-19 concerns.

8/5/2020 - Minutes

1. Open Meeting

Hardin County Drainage Chairperson Lance Granzow opened the meeting. Also in attendance were Trustee BJ Hoffman; Trustee Renee McClellan; Lee Gallentine of Clapsaddle-Garber Associates (CGA); Jacob Handsaker of Hands On Excavating; Shaun Piel; Michael Pearce, Network Specialist; and Denise Smith, Drainage Clerk.

2. Approve Agenda

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

3. Approve Minutes

Motion by Hoffman to to approve the minutes to Drainage Meeting dated 7-29-20 and DD 56 Landowner Meeting dated 07-08-20. Second by McClellan. All ayes. Motion carried.

4. DD 52 WO 215 - Discuss W Possible Action - Crop Damage Claim 2020-4

Shaun Piel was present electronically to discuss DD 52 Crop Damage Claim 2020-4, filed by Tracey Below, tenant on property that was owned by Piel in Hubbard, Below's claim directed payment be made to Piel, Granzow asked Piel to share his concerns. Piel stated he received a a packet of info from the Clerk, and there are some gaps in the logic in how we approach the problem. Granzow stated normally we would reseed and the request was made by both Piel and Below that they just wanted the cost of reseeding. Piel stated that was more of a Below thing, in Piel's opinion in a damage claim you go by the value of the thing damaged, the value of the seed does not have the same value as the crop, the seed value is much smaller. Piel made an analogy that if a car is totalled out the insurance company does not go by the steel value, they go by the car value. Granzow stated that with drainage within the easements, we are not entitled to pay anything but we try to with crop damage. Granzow went on with hay ground that is more complicated, and Handsaker has sat through this as well with waterways, which are a little more complicated, the field gets leveled out annually due to crops, so golf courses, waterways, hay fields are newer to us as far as doing damages, but we are trying to do our best as Trustees to everyone. Granzow stated this is not an insurance company and this is not an insurance claim, it is a claim against yourself. Granzow stated, you the landowners are the district, the Trustees are not part of this district and we have no claim to it, but what we have to do is make if fair for everyone in that district, and this is about the best we can. Granzow stated normally there is nothing in the Code of Iowa that says we have to pay crop damages, we just did, but when the damage is incurred by the property owner in some cases we don't do that, and is not implying Piel intentionally incurred anything, it is just trees.

Piel stated that as he reviewed the previous discussion, it does not seem to infer that there is no responsibility in the discussions, maybe Granzow is right as Piel is not familiar with Iowa code, but as far as assigning who is actually responsible, and there was a legal opinion given on evaluating whether or not negligence on the landowners part would reduce the district's liability towards the landowners. Piel felt this was one of the things that had a logic gap, was that big legal opinion. As Piel looks back on the notes from 3-25-20, Mr. Granzow saying the two years it was dug up are the districts responsibility, that quote tells Piel we are in agreement, that at one point it would have been the responsibility to pay that out. Granzow stated the district tore it up, and can't disagree with that, Granzow asked if it was a motion, and action or just a statement. Piel stated it was a quote in the minutes, not a motion or statement of action, but that it supports that there is a lot of discussion of whose responsibility it was and how long it took to get approval, which is something Piel would like to discuss also. Granzow stated when he spoke with Piel on the phone, Piel had stated he received the notice and assumed the Trustees would go ahead and remove the trees, we had to have it in writing, there is a time lapse there. Piel stated it wasn't a huge time lapse, but Davis Brown required a notary signature which was a challenge, Piel was in the process of relocating and changing jobs, and you start off at zero PTO so it is hard to get time off to get a notary signature.

Gallentine interjected that Davis Brown sent Piel something back in early 2019, in August of 2018 Gallentine sent a letter out that required no notary signature, that letter got no reply, that is the only the only reason Davis Brown got involved, is because we did not get a reply to our standard letters. Piel stated the way he read that letter was that if Piel did not object within 30 days, work was going to proceed on removing the trees, Piel chose not to respond because he assumed it would all commence on its own. Gallentine stated that may have been Davis Brown's letter, Gallentine stated his letter said in it's last paragraph, if you are in agreement please acknowledge so by signing this letter and return. Piel stated he believed it said somewhere in there, that it would proceed regardless, and that they requested a response, but his understanding was he didn't have a choice in the matter

and it would commence regardless. Granzow stated he thought they were both saying the same thing, but our proceedings would be going to the attorney and moving forward, not going through with the project, because we still need something to allow us to do that. Granzow asked if that cleared it up for both of them. Gallentine agreed it did, Piel stated possibly, he remembers Davis Brown. Granzow stated we had to go to an attorney because you didn't sign it to proceed forward with the project, we can't proceed with the project without all the legal papers first, Granzow thinks Piel understands it but our procedures are different. Piel is not familiar enough with the procedures or the legal implications of it, but assumed all was moving forward with it and no action was needed. Piel stated in terms of what a lawyer would do, he didn't know but they reached for an agreement but they didn't have any language that would imply that he had no choice. Piel stated that was late in the year and there was flooding damage in 2018. Granzow does not recall. Piel thought that 2018 was submitted in the claim. Smith stated below submitted a claim for 2016 through beginning of 2020. Piel stated he may agree with Granzow on that, but did not know about the flooding issue until much later, but that 2 years does seem appropriate to Piel, in 2018 the attempt to take action on this was pretty late in the year, and the damage was already done, the following year was damage related to the removal, so we have two incidences of damage.

Piel stated in his opinion this could have easily been prevented because we knew there was an issue in 2013 there was apparently roots were removed in that same tile, but to his understanding the trees were left. Granzow stated the trees were removed within the right of way, we are talking about this exceptional part where trees were removed outside of the right of way, and that is why we were contacting you for that easement. Granzow stated we have so much space within an easement and in '13 they were removed within the easement, but that did not pull them back far enough, the roots still got back in within 10 years. Gallentine stated in 2013, we removed the tile and replaced it out farther away from the trees, so not only did it get back in, the tree roots went farther out. Granzow stated that is wy we reached out to you to try to get that easement, to try to take the trees out farther away from the tile to help prevent this from happening. Piel's recollection was that much of an emphasis placed on urgency but has not read the letter in 2 years, that this was more of a preventative maintenance of things, and even Davis Brown did not address this. Granzow recalled that this was left open for two years. Gallentine replied that we removed as many of the tree roots as we could, there was a section of tile that was missing and was an open ditch which was left open, and the water flowed through the tile to the open ditch and back into the tile.

Granzow stated the flooding issue should have gone away, but the disturbance of the ground is what we were talking about during this time frame, Granzow asked how long the ditch was left open. Gallentine stated it was left open from the summer of 2018 to earlier this year when contractor Seward went back and repaired it, it should not have flooded in that time because it was flowing. Granzow stated prior to that time we don't pay for flooding damages, we would pay damages if we created the problem, but we did not create the problem, what we created was an opening, and we left it open for a longer period because we were waiting on all this paperwork and the time it took to extend a farther reach on those trees. Smith stated the claim was paid for 2019 crop year for \$430. Granzow stated we paid for one crop year which would have taken one crop year if everything had just clicked right in a room, but we paid for the damages at a request from both Below and Piel. Smith stated the claim was submitted by just Below. Granzow stated the request was also to go to Piel and not Below. Piel stated Below owed for rent and it was easier to collect it this way, and Piel wasn't familiar enough with the situation to file the claim but the other thing Piel wanted to bring up is the way this was paid out, there was a claim for \$715 and this is where he sees another logic gap was that someone decided it should be paid at a lower amount with cheaper seed because it was being sold. Granzow stated we received a quote for Round-Up Ready alfalfa, which was a higher dollar amount, we will reseed just alfalfa, because that was what was in the field, the quote difference was between regular alfalfa and Round-Up Ready alfalfa, and had nothing to do with the sale of the property.

Piel stated he was pretty sure it was Round-Up Ready in the field and we are already paying raw material cost rather than actual damages, going with a seed that is 60% of cost of this other seed. Granzow stated when we deal with claims on CRP ground, we don;t pay for CRP seed, we pay for grass seed, that is the same way with all districts, even if you have a premium crop in there we will just pay on the crop. Granzow stated he did not know if Round-Up Ready alfalfa was in the field already, the quote we were given specified Round-Up Ready seed, we sent that back to the contractor and asked what does regular alfalfa cost. Granzow stated it was truly an alfalfa field, if you tear it up that year or not, if it has been alfalfa for four years, more than likely you will tear it up, you have gotten the life out of the alfalfa.

Piel stated he disagreed with the way they are doing it because when you pay damages and you only pay raw material costs, you are not compensating for actual damages, it is a very inexpensive way to go about it. Piel stated if you want to pay full value, he does not see the big problem with that. Granzow stated if we were to pay what Piel calls full value, that is the problem because we are trying to keep consistent in what we do in all the other districts as well, this is why we did it t his way is to stay consistent, again it goes back to we don't have to pay you anything, but Granzow does not believe that is right either. Smith stated our crop reimbursement rates are based off the USDA Crop Loss Insurance Risk Rates for that year, so we based the prices on this 2019 report, and one of the issues with alfalfa is it is little more subjective crop because you have first cutting, second cutting, third cutting and there are quality differences in all of those different cuttings, and the rates for alfalfa are not spelled out in the

USDA Crop Loss Insurance report, so Smith deferred to the Trustees and asked for guidance as well, which is noted in the minutes. Smith stated there are differences in how alfalfa is handled than other crops, and wanted to provide that information as well because those USDA rates do not spell anything out for alfalfa. Piel stated just because it is a more rare crop that does not have as much data, he does not know what the approach is typically, Piel assumes they normally go by actual harvest value than by seed value, and it would be appropriate to follow that guideline. Smith stated for regular crops, yes, but alfalfa Smith did not know. Piel stated that we can still estimate the value of the harvested crop, although it would not be exact, it would be far better rather than going by seed value. Granzow stated that the request was to pay for the seed value in lieu of crop damage by the tenant who has the claim. Piel asked if we modified the claim would we be able to rectify that. Granzow stated it was over, the tenant's claim was satisfied and the tenant requested the claim be sent to Piel.

Piel stated then let's at least make it right with a larger amount of seed value, Piel felt this was not a very fair approach to this and we probably spent 10 times as much as this on legal opinions that say you guys might not have to pay out if the landowner is negligent. Piel asked why we are wasting so much money on lawyer opinions on less than a thousand dollar payout when we can just round up and pay it out. Granzow stated we don't do that, he knows what Piel is asking and wants, but if we were to do that once we would have to do it every time. Gallentine stated that the legal opinion was on taking trees outside of the right of way, not with crop damage inside the right of way, which are two separate things. Granzow stated that was correct. Piel stated there was a different legal opinion than what is on here. Granzow stated when we are talking about the crop damage claim we are at a standstill because the person that filed the claim accepted it, and had he wanted to change that he would have had to approach us at that point with the claim, and Below wanted the money to go to Piel instead of himself on his own crop damage, Granzow stated we can put that to rest as we are not getting anywhere, Granzow stated he knows what Piel wants but just can't do it. Piel stated, of course you can do it, there is always a way, why don't we just do two years instead of one.

Smith stated she wanted to interject with the last legal opinion that we received from attorney Mike Richards who got back to us on this claim, Smith shared Richard's reply with the Trustees at the time, and the minutes from that meeting state "Mike Richards reviewed the claim made by Tracey Below and Richards reply states that the information provided by Below is not enough to substantiate his claims associated with alleged damages caused by drainage tile, that there is technically no obligation in this circumstance to provide any compensation to Below as drainage districts are not subject to liability claims for money damages. Richards cited several cases and goes on to say that a landowner within the district can sue a drainage district to compel, complete or correct the performance related to the tile and drainage districts are not susceptible to suits for damages and cites several cases in his letter. Richards goes on to cite several of those cases and in one which was Holler vs. the Court, concluded that a landowner can not sue a drainage district for damages caused by flooding from maintenance or by failure to maintain a drainage system. In short, attorney Mike Richards thinks that DD 52 should deny the claim for damages as submitted by Below." Smith stated that was our last legal opinion and it took her a moment to find it in our previous minutes, Smith stated the Trustees have done the best that they can to satisfy the claim as presented and have gone beyond their possible requirements to do so. Granzow stated we did pay an attorney to answer that question.

Piel stated we are wasting tremendous amounts of money without even thinking twice on these legal opinions for a very small claim to the landowner and we are looking for the cheapest seed possible. Piel stated are we trying to spend as much of the districts money as possible on legal fees instead of paying landowners, that is Piel's impression. Gallentine stated the cheapest way possible to deal with trees is to not plant them near a tile. Piel stated we could eliminate all the trees in the world. Gallentine stated in the beginning, if the trees had not been planted so close to the tile that would have been cheapest solution. Piel stated the field still has trees all the way around, and asked are we going to go in and cut every homeowner's trees within the vicinity. Gallentine stated most of the trees don't affect the tile the way the Aus trees do. Piel stated it would make more sense to have regulations on what kind of trees and at what distance would make more sense. Granzow stated we can always do anything and we got a legal opinion on why we did this as that legal opinion will stay with us on every district, but to pay money to someone just because they want money, and we can't justify, Granzow needs an answer as to why we justified it in the first place, that is where we got the answer in the dollar amount we came to, which is more than the legal opinion gave but it was justifiable. Piel stated it may be too late, it is just a really bad practice, you are shoveling money into the attorney's offices, it was a small amount of money that it was went to very great lengths to minimize it from \$700 down to \$400, Piel does not understand why you just couldn't give him the extra \$300, but if we are just going to close the books on it, Piel will move on and deal with it. Piel stated he did not understand why we are willing to shovel so much money into the attorneys on such simple unecessary legal opinions rather than just pay out a small amount of money. Granzow stated it was precedence, and did not want to finish yet because we are only half done.

McClellan stated she wanted to comment, since McClellan has been on the Board there has been a number of times this district has come up due to these Aus trees and we have tried numerous time to contact Piel with no response. McClellan stated landowners do have responsibility when they own property and we tried to contact Piel

a number times to remove the trees and gave Piel an opportunity to do the work, but if it ends up being the district then everyone in the district ends up paying for it. McClellan stated that now over a few hundred dollars this is the only time we get a call from Piel, and that is McClellan's problem with this. Piel stated he was unsure what McClellan was referring to, we talked about the time-line of less than a year to get it resolved and there are various reasons for that, in terms of Piel removing the trees, he does not ever recall having that conversation or letter or contact, you may be referring to Piel's father who passed away in 2014. Piel stated whatever conversations you are referring to were not with Piel except for the one we talked about earlier in this phone call. McClellan stated her term on the Board did not start until January of 2015. Granzow stated the conversation Piel is referring to were had back in 2010. McClellan stated there have been a couple of other times we have tried contacting Piel with no response. Piel stated you are speaking of non-verifiable accusations here, we have the one on the agenda Piel has that begins in August of 2018. Granzow stated in December of 2010 prior to any of this Board, there was motions made to clean those trees out, it was the last meeting before Granzow came on to the Board and he sat through that meeting about moving the trees.

Piel stated he feels this is negligence on the Board's part, in 2018 it became a rush because it was not done in 2010. Granzow stated the trees were removed in 2013 from the 2010 issues, which is what Gallentine referred to earlier, the roots worked their way back in. Granzow stated that is why we reached out into the area outside the easement, which is what he wanted to discuss as well. Granzow asked how it looks outside the easement area. this would be the part that they reached out farther to take out the trees, and does Piel want to submit a claim for that. Granzow stated we have beaten the field to death and that is all done, but is there a claim outside of the easement Piel wants to submit instead. Piel stated so there is a claim for the easement that still needs to be paid. Granzow stated this would be outside the easement. Gallentine stated he did not think there would be any payment for easement itself. Granzow stated he is referring to damages done, and asked if there were any damages done outside the easement. Piel stated he would have to check with Below on that. Granzow stated the rent between Below and Piel is not the Trustees problem, that is Piel's. Granzow stated the question of the damages would have went to Tracey, as he requested that be in a dollar amount instead of a repair amount, and that is the dollar amount it came to if we were to go in and reseed it, that is the amount, whether it is RoundUp Ready or not, that is the amount. Granzow stated Below requested cash value, which does not mean what value, it is cash value of reseeding, and Below requested that it go to Piel and that both Below and Piel were fine with that, that is just not the dollar amount that Piel wanted. Piel stated that is how it worked out except for the dollar amount. Granzow stated that is above and beyond what had to be done in any measure the Trustees had to do, but we need to stay consistent with all our districts, not just a little fair her and there, we are beating this to death and we are not going to change our minds on it.

Granzow stated he would like to discuss the part outside the easement where we had to get an attorney involved, were there any damages beyond that point that we can address. Piel stated there was a claim that the new landowner was considering filing. Granzow stated that is the problem, it sold and the new landowner has filed a claim that is not entitled to anything, Granzow asked if Piel has a claim. Piel stated he will have to get all the facts together and assemble it. Smith stated there was a claim form included in the minutes documents she provided to Piel that he can fill out and return to the Drainage Clerk. Granzow stated he is not saying we are going to do anything, Granzow stated that is more of an open discussion than the hay field, and we would have to see what the claim is, Piel may add everything in and we may subtract some things and will just have to see if we can meet in the middle. Granzow stated as far as the new owner, Meister giving us a claim, there is no claim there for him, as far as Below submitting a claim, there is no claim there for him. Granzow stated if Piel has a claim the Board will have to review that, but Piel is no longer a landowner so this is a challenge and Granzow does not know how that would work, and suggested Piel submit his claim. Piel stated he would gather some facts because he does not have them all, and will get the form filled out. Smith stated Piel could reach out with any questions he may have. Granzow thanked Piel for his patience.

5. DD 128 WO 279 - Discuss W Possible Action - Contractor Update

Contractor Jacob Handsaker was present to provide update on WO 279. Handsaker stated this was the last work order we had to wrap up with on a multiple district project. Landowner Dean Bright had concerns about a side hill that was weeping, Handsaker's crew did extensive exploration, they did find a 40' section of old house drain, that had been connected in already on the top end, but that 40' or so was still seeping water. Handsaker stated it had been day-lighted into the crevice before they started, they intercepted that and it was still pulling water when we found it. The top end is hooked up so it has a good outlet. Handsaker stated CGA had sent an observer out to review their work, they dug all through there and didn't find any lateral coming in and it looks like a sidehill seep, Handsaker would like to hear CGA's observer's thoughts on this. Handsaker stated as part of their agreement, Hands On paid for televising of the tile, and they had Paul Williams come out and televise the tile. Handsaker provided the video to the Trustees at the meeting, Handsaker noted no crushed or rippled spots, there was good slope on the tile.

Handsaker noted that down at the end of the tile at about 840' to 860' there is some root intrusion at the end of the line. Gallentine asked if the video was just provided to the district and not CGA, Handsaker stated it was just put on his computer this morning and will provide a copy to CGA. Handsaker direct the video be forwarded to the 3/4 mark, and noted the vellow tile in the video is the plowed in flexible dual wall tile. Handsaker noted a 2 to 3 percent grade on the tile. Granzow asked if we did the flexible dual wall in lieu of concrete, Handsaker stated it was in lieu of excavated in dual wall tile. Gallentine stated this is the one Handsaker trenched in for us doing the rock bedding and the backhoe, the thought was to do this as a trial experiment and Handsaker would provide video so we could look at it and see what kind of deformations there were. Gallentine asked if the Trustees wanted to watch the whole video now or have CGA review the video and come back with findings. Handsaker stated he brought it for a quick review, as it is over an hour long, as it gets closer to the end of the video, the roots really start to come in. Handsaker stated they removed all the trees, and these roots would be all that remains of the trees above. Handsaker pointed out in the video where the tile comes to a tee and connects to the clay tile on each and then Y's off to the intake they installed. There is some intrusion from the intake sucking in some dirt, but not a lot, it is a dual wall tee. Handsaker wanted to get the video submitted, and get Gallentine's thoughts as to what more Hands On should look at to try to find any lateral tiles, as they have dug through the wet spots and not found any laterals, this would be the end of wrapping up that entire project. Handsaker stated in reviewing last week's minutes, he saw the discussion on wrapping up the entire project and releasing some things. Gallentine stated that this is not entirely the end, he still needs to receive lien waivers.

Gallentine stated CGA can watch the video and do some analysis. Hoffman stated it would probably be a good idea to have CGA look at it as this was a trial run and perform analysis that way if it comes back that we would ever decide to do a similar process using similar materials we will have something documented from CGA with some constructive criticism if it was or was not acceptable. McClellan agreed. Granzow asked if by doing this on removing the trees, does it allow that root growth to get there faster versus excavating. Gallentine stated if you excavate you pull out more of the trees because you have a wider trench, with any tree roots there is a possibility they can come back and get in the tile, hopefully they are just some sapling roots that will die off as Bright maintains that waterway and does not let the trees grow back. Granzow stated that was about the only concern he saw.

Motion by Hoffman to instruct CGA to analyze the video and make a simple report and return it to the Trustees for future reference. Second by McClellan.

In additional discussion on the motion, Granzow asked about the side hill seepage mentioned by Handsaker. Handsaker would like CGA's thoughts on that and if there is something more that Hands On needs to do, Handsaker will send more guys out there, if it appears from the observer's point of view that we need to do due diligence or if it is up to private tile issues for Bright, Handsaker would clarification on that decision so he knows when we can call this project done. Granzow asked if we could have that info back by next week. Gallentine stated we can't call the project done until we have the lien waivers. Handsaker stated we are working on the lien waivers right now. Gallentine will reach out to Bright for his thoughts as well. Smith stated she would get the video to Gallentine.

All ayes. Motion carried.

6. Discuss W Possible Action - IRUA Service Request

Smith stated contractor Jacob Handsaker received a request for service connection to IRUA water from a homeowner, Smith provided a map and stated she was unsure which direction IRUA would be coming in from. Handsaker stated IRUA has a service line at H Ave, and would run from H Ave east to the property line. Gallentine stated it appears they would not be crossing a district facility. Handsaker stated they would not, there is no district laterals through there. Smith stated we have not received an application for a Drainage Utility Permit from the IRUA yet, if the IRUA submits an application, then we can get it on the agenda. Granzow stated if you need to cross a district tile, my answer will be a no, as we have had issues with the IRUA, but if it does not cross a district tile Granzow does nt have a problem with it. Granzow stated he does not want to prohibit a landowner from getting service through the IRUA but feels the IRUA have not been honest with us. Handsaker will let them know that the IRUA needs to submit a Drainage Utility Permit application. McClellan asked if we need to act on this if it does not cross district tile. Smith stated yes because even if they are not crossing district tile work is being done within the drainage district boundaries, and it can be noted as such in the minutes and the Trustees can approve it like we did on the last request.

7. DD 25 - WO 1 - Discuss W Possible Action - Change Order No. 6

Gallentine stated this is for the project near Garden City and is Change Order #6, we had spoken at the last meeting about the landowner east of the RR tracks not wanting the old tile removed, instead leaving it in place, this Change Order incorporates that and the mobilization for McDowell's subcontractor to show up when he was trying to televise and he couldn't televise because of the amount of mud in it. Gallentine stated overall this is a net

decrease of \$2,976, and Gallentine stated he felt it would be best to have a change order on file to officially document that this tile east of the tracks is no longer district tile that is staying in place. Smith stated she noted that in last week's minutes discussion.

Motion by McClellan to approve Change Order No. 6. Second by Hoffman. All ayes. Motion carried.

8. DD 56 - Discuss W Possible Action - NRCS Wetland Determination

Smith stated the she had spoken with Gallentine about the NRCS Wetland determination for DD 56 and asked Gallentine to elaborate. Gallentine stated he reached out to the NRCS about the wetland determinations in DD 56 where we are splitting the district into two halves, and has talked to them generally and have gotten to a rough tentative agreement where we feel the improvement would be affected on the ground, but the NRCS is not willing to take that conversation any further until he has active determinations from the landowners. Gallentine asked if it would be helpful to have the district send a letter out to please get your wetland determinations and get those back to the district as soon as possible. Gallentine stated NRCS won't imply which area CGA should get determinations from as that may imply who has or does not have a wetland determination, Gallentine stated we talked about the tile route and generally that this portion of the route may see an improvement or not.

Motion by Hoffman to instruct the Drainage Clerk to send out a mailing to DD 56 landowners to encourage landowners to get their wetland determinations from the NRCS. Second by McClellan. All ayes. Motion carried.

Handsaker stated that the edict came down from Washington that they wanted all the wetland determinations to be completed with a year, but they had such a backlog in southern lowa plus Illinois, Wisconsin and Minnesota, that he has heard the NRCS is not doing any work in this area currently. Granzow stated this project may take a while. Gallentine stated he can't do anything with wetlands without a determination. Smith requested Gallentine review the draft of the letter to ensure it includes all the pertinent information. Gallentine will review the letter.

- 9. DD 48 WO 237 Discuss W/ Possible Action Repair Summary Action on DD 48 WO 237 was postponed until the next Regular Drainage Meeting.
- 10. DD 121 WO 295 Discuss W Possible Action Investigation Summary / Landowner Meeting Action on DD 121 WO 295 was postponed until the next Regular Drainage Meeting.
- 11. DD 120 WO 298 Discuss W Possible Action Investigation Summary

Gallentine stated this is Kevin Vierkandt's question on what is going on with the intake on Kent Pecht's property. Gallentine stated what CGA found in the area where the fenceline was cut and the intake was installed, based off of the maps it is private tile and not district tile. The district tile stops about a 1/4 mile south of there and heads off to the northwest instead of due north. Gallentine stated if the Trustees would like, CGA can do a detailed search of the history to verify that, but based off the map, it is not district tile. Gallentine stated the district could be the solution but it would involve installing a lateral or installing a new facility. Granzow stated even with Kent's request to up-size the tile it does not affect the district at all. Gallentine stated the shaded area of the map that says GA McPherson, the yellow highlighted area that runs from north south and starts going off at an angle, that is where the district tile is, where the issue is at is actually 1/4 mile farther north on the edge of the pink area if you went straight up. Based off the maps this issue is a 1/4 mile away from the district facility, you could fix it if you chose by installing a lateral up there but you don't have to. The secondary issue is that all this water goes down about 3/4 of a mile and ponds at 115th. Gallentine stated you could install something bigger so it drains away faster but the primary issue is the washout that occurs in between that Vierkandt is not happy with, but not necessarily the ponding. Granzow asked where the intake is on the fenceline is not even district tile. Gallentine states it shows up on the GIS as district, but if you look back through the maps it is not district tile. McClellan asked if this area was ever annexed into the district. Gallentine replied it is inside the district boundary but is is not district tile. Granzow stated it is not a district main, but did Vierkandt hook into the district main and hickenbottom it to the fenceline. Gallentine stated no because the district main is not that far north. Granzow stated so this is all private tile according to the maps and this is our answer to Vierkandt. McClellan stated we should direct Gallentine to notify both of the parties that it is not county tile.

Smith stated on a related note, she created a work order on this to track CGA's expenses, which we have not acknowledged yet, Smith stated she had created the work order and was waiting to see where the investigation led us, and would need an acknowledgement and signature on the work order to note that it might be included in this information.

Motion by McClellan to acknowledge DD 120 Work Order 298. Second by Hoffman. All ayes Motion carried.

Motion by McClellan to direct CGA to notify both parties and share this map that reflects this is not district tile, but private tile. Second by Hoffman. All ayes. Motion carried.

- 12. DD Big 4 Lat 4 WO 195 Discuss W Possible Action Repair Summary Action on DD Big 4 Lat 4 - WO 195 was postponed until the next Regular Drainage Meeting.
- 13. DD Big 4 Main WO 247 Discuss W Possible Action Repair Summary Action on Big 4 Main WO 247 was postponed until the next Regular Drainage Meeting.
- 14. JDD H-H 118-232 WO 281 Discuss W Possible Action Repair Summary Action on JDD H-H 118-232 was postponed until the next Regular Drainage Meeting.
- 15. DD 22 WO 176 & 192 Comb. Discuss W Possible Action Claim For Crop Damages Vierkandt

Smith stated we had a request for crop damage claims from James E. Vierkandt for work done on DD 22 WO's 176 & 192, previously we had received a document from Heather Thomas of CGA that spelled out crop damages for this parcel at 2.841 acres on Lee Anderson's farm, on which James Vierkandt is tenant. Vierkandt requests payout of the claim on the damaged acres to be directed to Vierkandt, with a yield of 212 bushels per acre at \$3.90 per bushel as spelled out with USDA Crop Insurance pricing for crop year 2019, for a total of \$2,348.97. Smith also reached out to James Sweeney on the loger parcel, and another one listed on the document and is waiting to hear back from the landowners.

Motion by Hoffman to approve the Crop Damage Claim 2020-6 for James E. Vierkandt in the amount of \$2,348.97. Second by McClellan. All ayes. Motion carried.

- 16. Other Business
- 17. Adjourn Meeting

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

REGULAR DRAINAGE MEETING Thursday, August 12, 2020 9:30 AM This meeting was held electronically and in person due to Covid-19 concerns.

8/12/2020 - Minutes

1. Open Meeting

Hardin County Drainage Chairperson Lance Granzow opened the meeting. Also present were Trustee BJ Hoffman; Trustee Renee McClellan; Michael Pearce, Network Specialist; Taylor Roll, County Engineer; 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 Claims For Payment

Granzow stated that due to the power outage on Tuesday, the agenda did not get displayed in time, but we do have claims that need to be paid, they are on this agenda and claims have been made out, if you so choose Smith can mail them and put them on next week for the approval, but they will be sent out regardless. Smith stated claims are ready to go out, you can review them as attached to the agenda, most are from CGA for investigations and repairs, there are a couple claims for DD 165 which is a Private Trustee district and have already been approved with a voucher, there is one claim for Honey Creek Land Improvement for tile repair, parts and labor. Smith stated it she reviewed last week's minutes and thought it would be more appropriate to put the postponed items from last week on next week's agenda, there will be a good size agenda for next week. Smith stated she could mail the claims out unless directed not to.

Motion by Hoffman to approve the claims for payment with pay date of Friday, August 14, 2020. Second by McClellan.

In further discussion on the motion, Granzow noted this agenda was not printed 24 hours ahead of time, but Drainage was put on the regular Board of Supervisors agenda. Smith reviewed public notice section of Iowa Code, and when it is necessary to hold a meeting with less than 24 hours notice posted, we have to state the nature and the good cause as the reason for the change in the minutes, in this case being the storms of Monday, August 10, 2020 and the Governor's Disaster Proclamation of August 11, 2020 including Hardin County and the ensuing power outage for the Courthouse on August 11, 2020. McClellan stated she did not think any of these claims would be contested.

All ayes. Motion Carried.

DD 11 WO 294 - Prof Svcs 6/26/20-7/31/20	Clapsaddle-Garber Assoc	\$ 1,386.50
DD 165 - Rock and dirt for tile repair	Brandt Sand & Gravel	\$ 253.53
DD 14 WO 291 - Tile repair, parts, labor, equip.	Honey Creek Land Improvement, LLC	\$ 13,943.00
DD 14 WO 291 Prof Svcs After 5/23/20 to 7/ 31/20	Clapsaddle-Garber Assoc	\$ 5,007.95
DD 22 WO 176/192 Drainage Claim for Damages 2020-6	Vierkandt, James E	\$ 2,348.97
DD 25 WO 1 Contract Admin Const Obsv. Rail Monitor	Clapsaddle-Garber Assoc	\$ 20,418.83
DD 26 WO 266 - Prof Svcs after 6/20/20 to 7/13/20	Clapsaddle-Garber Assoc	\$ 1,209.10
DD 48 WO 237 - Prof Svcs After 5/30/20 to 7/31/20	Clapsaddle-Garber Assoc	\$ 649.80
DD 56 WO 3 - Prof Svcs After 4/25/20 to 7/31/20	Clapsaddle-Garber Assoc	\$ 877.80
DD 56 WO 3 - Prof Svcs After 04/25/20 to 7/31/2020	Clapsaddle-Garber Assoc	\$ 409.80
DD 68 WO 293 - Prof Svcs After 5/30/20 to 7/31/20	Clapsaddle-Garber Assoc	\$ 1,333.20
DD 102 WO 265 Prof Svcs 6/26/20 to 7/31/20 Reclass	Clapsaddle-Garber Assoc	\$ 2,749.80
DD 109 WO 269 - Prof Svcs After 5/30/20 to 7/31/20	Clapsaddle-Garber Assoc	\$ 746.40
DD 120 WO 298 - Prof Svcs to 7/31/2020	Clapsaddle-Garber Assoc	\$ 1,015.80
DD 121 WO 295 - Prof Svcs to 7/31/20 Blowout Inv	Clapsaddle-Garber Assoc	\$ 1,134.40
DD 128 WO 279 -Prof Svcs Aft 11/30/2019 to 7/31/20	Clapsaddle-Garber Assoc	\$ 420.20
DD 158 WO 285 - Prof Svcs After 6/26/20 to 7/31/20	Clapsaddle-Garber Assoc	\$ 6,502.10
DD 165 - Tile repair, parts, labor, and equipment	Johnson Tiling	\$ 497.50
DD Big 4 Main WO 247 Prof Svcs 3/27/20 to 7/31/20	Clapsaddle-Garber Assoc	\$ 723.00

4. Other Business

Granzow stated we will look to see the postponed items on next week's agenda.

5. Adjourn Meeting

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



Drainage Work Order Request For Repair Hardin County

Date:	6/3/2020			
Work Order #:	WO0000295			
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: Repair labor, materia	the field on parcel #8		ed tile and water running across	
Repaired By:			Date:	
	k order # and send sta	atement 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.





CONSTRUCTION ENGINEERING OBSERVATION REPORT	DATE:	C	1/12/20
PROJECT NUMBER: COUNTY, ROUTE, ROAD: LOCATION: HARDIN Co. W.O. #295	DAYS OF WEEK: - SHEET NO. MAASHALL CO.	SMTW OF	TFS
DESCRIPTION OF WORK AND MATERIAL USED F NAME, ITEM NO. AND LOCATION SUNNY, CA	rum, 80°, dry Co,	NCLUDING CONTRAC	CTOR/SUE
dry Bean Field))		
WET AREA	X		an a
BLOW-OUT CHARDS	SS Sume		
CORN	Fourio Exposed Til	E AND LOTS OF CHAROS AL 12"THE OR LARGER	ang Grass Swals
Prouting Prouting	- UL		
*	33	0774.	
PARKED C 1/4 /4 COR, WALKED TILE ROUTE 1 12"+ CLAY. FOUND NOISEY WATER ROUTING OUT O	FORCESS SURVE TO N.S	May May	
OF 40 ACRES. IT LOOKS LIKE TILE IS VERY SHAR Some writter in Swale is 2' dreep. I Have No I	LOW OR REMOVED IN SUI	ALE AREA	
I Certify that the work described in this report was incorpo Observer's Signature:	rated into this contract unless Date Prepared:		
Keviened by.	Engineer	Date Reviewed	

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Drainage Work Order Request For Repair Hardin County

Date:	11/9/2018
Work Order #:	W00000237
Drainage District:	Drainage Districts \DD 48 (51072)
Sec-Twp-Rge:	23-88-21 Qtr Sec: SE
Location/GIS:	88-21-23-400-003
Requested By:	Kevin Johnson
Contact Phone:	(641) 373-1048
Contact Email:	Lowells - Iruskin43@msn.com
Landowner (If different):	Lowell Skinner (515-532-2278)
Description:	DD 48 - Outlet out on embankment 1/2 across field. Please call both Kevin and Lowell when come out.

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: 11/13/2018



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.

Drainage District:

#48

Repair Summary:

- Per the recommended actions of the Investigation summary, the existing 36-inch CMP surface drain and antiseep collar was excavated and removed in the SW% SE% Section 23, Township 88 North, Range 21 West.
 Because the CMP tile and anti-seep collar still had reasonable life cycle left, both were set aside to be reused.
- Set aside topsoil and used clay soil borrowed from the property to grade the slope of the surface drain base and perimeter. Base was prepared and packed, original ½ diameter metal anti-seep collar installed, and an additional full HDPE anti-seep collar installed nearer the inlet. Backfilled and compacted borrow clay soil around the perimeter of the surface drain to prevent future seepage. Backfilled and graded remaining excavation and bank with on-site soil.
- Waterway was graded to direct overland water flow towards the inlet of the surface drain and topsoil reapplied.
- Topsoil was re-applied and graded on the borrow area for the clayey soil.
- Silt bar in main channel identified in previous Investigation Summary appears to have mostly been washed away.

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

See attached Tabulated Contractor Time and Materials Sheet. Note, additional grading and seeding was planned to occur while CGA was not on-site.

Additional Actions Recommended:

- Contractor did not send photographic confirmation that remaining grading and grass seeding was completed to the disturbed soil at the jobsite. He should be contacted to verify said work was completed.
- The reused surface drain as found did not have stone erosion revetment, nor an apron on the inlet side. CGA recommends these two items be installed to prevent erosion if erosion is reported at this surface drain again.



Date	Totals	4/16/2020	4/17/2020
Workman (hrs)	58 1/2	29	29 1/2
Mini Excavator (hrs)	19 1/2	11 1/2	8
Skidloader (hrs)	30 1/4	14 1/4	16
1" Clean Bedding Rock	Yes		
Concrete Collars	Yes		
Jumping Jack Compactor (hrs)	7	1 1/4	6
HDPE Anti-Seep Collar (ea)	1		1
Metal Connection Bands (ea)	2		2

Tabulated Contractor Time and Materials

CONSTRUCTION ENGINEERINC OBSERVATION REPORT	G DATE:	04/16/2020
PROJECT NUMBER: HARDIN OD I	WO#Z37 DAYS OF WEEK:	SMTWOFS
6486	STREET CAST SHEET NO.	
	MID I MID 4	O'S TO LOW ZO'S
LOCATION: SW SE 23-88-21 HARD		TO CLOUDY BY LATE
DITCH #48		JOB# 6486 0048. SUBVE
DESCRIPTION OF WORK AND MATERIAL NAME, ITEM NO. AND LOCATION		
0.70	DA.M. ADAM. CALLE	
CREW HIS WORKING	ON SURFACE DRAIN	N REPAIRS FOR
OPEN DITCH DD48.		
9:20 A.M. OBSERVER FOUND ;		ODATHLOUELTOR L
EQUIPMENT UP AND L		-
9:50 AIM, OBSERVER ARI		
	PS MONUMENT 8043	
	6 GREEW FIX, CALL	
	WORFING GOOD, OBSER	
	WELS HAD INTER FE	
	NO TRIED TO GET GA	
	OBLLE HOT SPOT BUT	
TO WORK, RESET	BOTH BASE AND	RECEIVER HEADS.
	LL GREEN FIX AFTER	
	TO FIGURE OUT SOME	
11:20 A.M. OBSERVER HEAD		
ON CONTRACTOR,	JEFF AND PERRY	WERE ON SITE WIT
JEFF BEING ONS	ITE SINCE 8:30 A.M	, AND PERRY ON
	DAM. TAKEUCHII T	
AND CASETR 340	TRACKED SKIDLOADI	ER WERE ON SITE SINCE 8.
11:43 A.M. PICTURE # 3370	SEE PILTURE FOR DET	AILS.
12:03 P. M. PICTURE#1 & PIC		
PICTURE#4, 12306 P.M.	PICTURE # 5, PILTURE	#6, & PICTURE #7
SEE PICTURE FOR DE	ETAILS.	
12:00 P.M. CHRIS ARRIVED 6		
12:07 P.M PICTURE# 8 & 12:05	P.M. FICTURE #9 SEE P	ICTURE FOR DETAILS,
12:20 P.M. CREW IS STARTIN	VETO STRIP OFF TOP	SOIL FROM AROUND
I Certify that the work described in this report wa	as incorporated into this contract unly	ess otherwise noted
Observer's Signature:	A SHOW A SUPPLIED.	AU / / /
Reviewed by:	Engineer	04/16/2020

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CONSTRUCTION ENGINEERING OBSERVATION REPORT	DATE:	04/16/2020
PROJECT NUMBER: HARDIN DD WD#237	DAYS OF WEEK:	SMTWØFS
COUNTY, ROUTE, ROAD: SOUTH OF 1957H STRUBT 245	SHEET NO.	OF
LOCATION: SW SE 23-88-21 HARDIN NORTH SIDE OF OPEN DRAINAGEDITC	H#48 TO CLOU	TO LOW ZO'S SUNNY OY BY LATE APTERNOON
DESCRIPTION OF WORK AND MATERIAL USED FOR NAME, ITEM NO. AND LOCATION	EACH OPERATION, INCL	UDING CONTRACTOR/SUB
BBSERVER LEFTTO TRY SE		
AFTER SWITCHING CHANNE.		
12:35P.M. OBSERVER AND CHR.		AND NOWEVERYTHING
IS WORKING GOOD AGAIN, C	HRIS LEFT SI	TE AFTER GETTING
685 WORKINGON NETWORK.		
12:40 P.M. PILTURE # 10 SEE PILTUR	E FOR DETAIL	5
12:50 P.M. OBSERVER SHOT EXIST	NE CMP SURFACE D	RAIN & GS IN WATERWAY
2:00 P.M. ADAM AND SARSON ARRI	ED-ON SITE	
2:25 P.M. PICTURE # 11 & PICTURE #12,	2:26 P.M. PICTURE #	13 SEE PILTURE FOR DET AILS
2:57 P.M. PICTURE # 14, 3:04 P.M. PIC	TURE# 15, 3.07P.	M. PICTURE #16
SEE PICTURE FOR DETAILS.		
_ 3:00 P.M. OBSERVER SHOT GROW	VOS HUTINSWAUER	FLOFDRAINAGE
DUTCH,		
3107 P.M. PICTUREFILE & 3:11P.M.	PICTURE #17 SEE	PULTURE FORDETAILS,
3:00P.M. ADAM CALLED TENAN	TAND LANDOWA	ER TO SEE IF
- THEY COULD DIG -INVELIET	DAND GET SC	me -
- CRAY TO PLACE UNDER	SURFACE DRAI	N. BOTH TENANT
3:15P.M ADAM AND CARSON LEFT SITE 4:11P.M. PICTURE #18 SEE PICTURE FO	LTWASOK	China ta companya and
4:11P.M. PICTURE#18 SEE PALTURE FO	R DETAILS	SKIDCOADER
4:30.P.M. CREW EXCAVATED A BORN	OW PIT IN FIEL	D TO HAUL INALMEY.
CLAY BACKFILL TO SITE, A	DAM AND CARSON	BACK ON SUTEWITH
4:45P.M. CARSON STARTED RUNNE	V6 JUMPINE JI	ACK OVER BACKFILL
SOIL FOR TREWCH UNDER:		
4:50 P.M. OBSERVER SETUPNEW.	ERADE ON SURFA	CE DRAIN @ 3%
SINCE WATER WAY HA. TO GET IT ON UNDISTURBEROU.		
S:00 P.M. EREW IS HAULING	IMEYCLAY TO SUI	REACE DRAIN TRENCH
I Certify that the work described in this report was incorporate	d into this contract unless of	herwise noted
	Date Prepared:	04/16/2020
Reviewed by:	Engineer	-1/10/2020
	Lagneer	Data Daviaura I
		Date Reviewed

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	UCTION ENGINEERING ERVATION REPORT	DATE:	04/16/2020
PROJECT NUMBER	HAROIN DD WO# 237	DAYS OF WEEK:	SMTWOFS
COUNTY, ROUTE,	ROAD SOUTH OF 195TH STRUES	TEAST SHEET NO.	3 OF 3
LOCATION SWS	E 23-88-71 HARDINI	- MID	40'S TO LOW 20'S SUNNY
NeR	TH SIDE OF OPEN DRAINAGE	EDITCH#48 TOC	LOUDY BY LATE AFTERNOON
DESCRIPTION OF W NAME, ITEM NO. AI	ORK AND MATERIAL USED	FOR EACH OPERATION,	INCLUDING CONTRACTOR/SUB
IN FIR	WITH C	SKID LOADERS P	FROM BORROW AREA
6:19 P.M. PI			
	EWLEFT SITE F	DR MALL	
Tisop.M. Pu		a comp	
		AETER MARK	NG BRADE ELEVATION
FeR	SURFALE DRAIN AF	TER CREW LEVELE	D BOTTOM OF TRENCH WITH
	LOADER, OBSERVER CH		
	2 1. 1 ¹ W W 35 March 10 Marc		E GGO'T NORTH OF ZO 482 MAVE
LUANTITIES JEFF	11/2 HOURS	TAKEUCHII TB	130 FR MINIEXCAUATOR 11/24R
PERRY	9 HOURS		TRACKED SKIDWADER 11/2HR
AD'AM	41/4 HOURS		TRACKED SKIDLOADER 23/4 HR
CARSON		JUMPING JACK	
ADAM & CARSON	V GETTING ANOTHER SK		
	408 1096188		NEW GRADE X 403 1092.32 FL
1097.03 1 1095.9	6 4077		TOBE 2.0'TO 2.5' CRAFS SWALE
	106 407 109 5.61		ABOUETEL 96.66@ 3.0 70
It islar	× + 402	SHIFTED LO TO PLACE	CATION 7.8 CAST 424 PROPOSED FL
EXISTING 404 SURFACE 109372	403 1094.54	FLOMPTO 2 PLAG 3.26	REN (Paula)
DEAIN	412 0 100.62		>20
	605# 400 TOP 36" FL 1089.	29	
6PS # 417 -	A W SPS & 413 METAL MA	1115000 1089.29-1	423 PROFUSEOFL 1088.23
METTIC ANTI SEE	ORIGINAL GA	ADECMP 1984.CI	10 T 3.3 HOUC
	2 6PS# 401 70P 36"	,	FLOD
1084.65 FL 42	3.0' TOPTO	EL	- SHIFTED LOCATION.
· ····································			7.0' EAST TO FLACE
FL 109	34,80 084,41		ON UNDISTURBED
I Certify that the work of	lescribed in this report was fifteorp	orated into this contract unle	ess otherwise noted
Observer's Signature:	_ Dean Penny	Date Prepared:	04/16/2020
Reviewed by:		Engineer	
	······		Date Reviewed
L		·····	

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SHOWING SURFACE DRAIN IN GOD CONDITION. CREW WILL REUSE SURFACE DRAIN.





SHOWING ORAINAGE DITCH BANK ERODED AROUND PICTURE#6 IS LOOKINGSE AT 36" CMP INLET SURFACE ORAIN INLET

PICTURE #7 15 LOOKING NORTH AT GRASS

WATERWAY NORTH OF SURFACE

DRMN INLET

12:06P.M. 0202/91/10

2

12:06 P. M. 01/16/2020






6P5#413 TOP OF

E SIDE

PICTURE # 11 15 LOOKING NU AT EXISTING. SE OF NORTH INLET PICTURE # 12 13 LOOKING NW SHOWING MOST OF TOP OF 36" CMP SURFACE DRAIN EXPOSED & GREW READY TO REMOVE.



PICTURE # 13 15 LOOKING NW SHOWING CREW GETTING READY TO REMOVE 36" CMP SURFACE ORWIN







PICTURE HIS IS LOOKING WW SHOWING 36" CMP SURFACE ORAIN THAT WAS REMOVED USING MIMIERCAVATOR . AND TRACKED SKIDLOADER,



oy/ve/zero 3:OHP.M.





PILTURE# 17 15 LOOKING NW SHOWING CREW REMOVING EXISTING METAL AWTISZEP COLLAR



PICTURE # 18 15 LOOKING SE SHOWING EXCAVATOR RAW OVER WITH TRACKS. EXISTING SUBGRADE AFTER MINI SOLL IS SOFT NEAR OUTLET.

2



PICTURE # 19 15 LOOKING NW SHOWING CREW CLAY SUL INTO FRENCH TO PUT DEWNILE COMPACTING SUBGRADE WITH JUMPINE JACK COMPACTOR & NOW CREW HALLING IN LIME



PILTURE# 20 IS LOOKING SE SHOWING CREW JUMPING JACK COMPACTING SOUTH END OF TRENCH FOR SURFACE DRAIN



Z

DRAIN, CREW WILL WEED TO FINISH GRADE TOMORROW, PICTURE # 21 15 LOOKING SE SHOWING LATH SET FOR GRADE FUR SURFACE



OBSER	CTION ENGINEERING VATION REPORT	DATE:	04/17/20
PROJECT NUMBER:		DAYS OF WEEK:	SMTWTO
COUNTY, ROUTE, R	CAD. SOUTH OF 195TH STREET, E	stat	OF3
NORTE	23-88-21 HARDIN H SIDE OF OPEN DRAINAGED	ITCH #48 MOSTLY CLUM	STO LOW 30'S,
DESCRIPTION OF WC NAME, ITEM NO. ANI	ORK AND MATERIAL USED FO D LOCATION	REACH OPERATION, INCL	JOB # 64860048
7:40 A.M. OBSE	RVER LEFT OFFICE F	OR JOBSITE.	· · · · · · · · · · · · · · · · · · ·
	RVERSET GRS BASE ON G		TROD FLUSH IN
	ENER OF FIELD DRIVE		
	D482 MAVE MAIN D		
SOLI	OWASTE).		/
8:30 A. M. 6PS	BASE WAS SETUP AN	ND CHELKED INTO	HARDIN COUNTY 61
mon	UMENT # 8043 WITH	BOTH HORIZONTAL	ANDVERTICAL
POSIT	ION CHECKING 600	00.	_
8:35 A.M. OBS	SERVER ABRIVED AT	SURFACE DRAIN RE	PAIR. JEFFANIA
PERR	Y WERE ONSITE A.	NO HAVE BEEN SI	NCE SIDAM.
	TAKENCHIL TBIBOFR		
SKIDI	LOADER, CAT 2990	XHPTRACKED SKI	DLOADER, & JUM
	K ON SITE FOR EG		
R'HDAM OR	SERVER LURG CHE.	KING CRADE FO	PUNDER
0.10/1./1. 0.0	VERVER WAS CHEL	and the state of t	RUNDER
SURF	FACE DRAIN PIPE	AND PAINTED UP	ALL AREAS THA
SURF	DRESSED UP W	AND PAINTED UP	ALL ARENS THA
SURF NEET 9:15 A.M. AD	DRESSED UP W.	AND PAINTED UP OT H GPS. V ARRIVED ONS	ALL AREAS THA
SURF NEEL 9:15 A.M. AD PILIA	EACE DRAIN PIPE D DRESSED UP W DAM AND CARSON VG UP-LIMEY CLAY	AND PAINTED UP OT H GPS. V ARRIVED ONS ALONG SURFACE DE	ALL AREAS THA
SURF NEEL 9:15 A.M. AD PILIA TO BE	EACE DRAIN PIPE D DRESSED UP W DAM AND CARSON WE UP-LIMEY CLAY EUSED AS BACK FIL	AND PAINTED UP TH GPS. VARRIVED ONS ALONG SURFACE DE LAROUND CMP.	ALL AREAS THA ITE, CREWW RAIN TREWCH CREWWAS JUST
SURF NEEL 9:15 A.M. AD PILIA TO BE	EACE DRAIN PIPE D DRESSED UP W DAM AND CARSON WE UP-LIMEY CLAY EUSED AS BACK FIL	AND PAINTED UP TH GPS. VARRIVED ONS ALONG SURFACE DE LAROUND CMP.	ALL AREAS THA ITE, CREWW RAIN TREWCH CREWWAS JUST
SURF NEEL 9:15 A.M. AD PILIA TO BE STAR AGAU	EACE DRAIN PIPE DRESSED UP W DAM AND CARSON VG UP-LIMEY CLAY EUSED AS BACK FIL TINGTO COMPACT BO N WITH JUMPING JA	AND PAINTED UP TH GPS. UARRIVED ONS ALONG SURFACE DE LAROUND CMP. TTOM OF SURFACE CK PLATE COMPACT	ALL AREAS THA ITE CREW W RAIN TREWCH CREW WAS JUST EDRAIN TREWCH OR,
SURF NEEL 9:15 A.M. AD PILIA TO BE STAR AGAU 9:21 A.M. PIC	EACE DRAIN PIPE DRESSED UP W DAM AND CARSON VG UP-LIMEY CLAY EUSED AS BACK FIL TINGTO COMPACT BO N WITH JUMPING JA TURE # 3371 SEEP	AND PAINTED UP TH GPS, VARRIVED ONS ALONG SURFACE DE LAROUND CMP. TTOM OF SURFACE CK PLATE COMPACT UCTURE FOR DETAIL	ALL AREAS THA ITE CREW W RAIN TREWCH CREW WAS JUST E DRAIN TREWCH DR.
SURF NEEL 9:15 A.M. AD PILIA TO BE STAR AGAU 9:21 A.M. PIC	EACE DRAIN PIPE DRESSED UP W DAM AND CARSON VG UP-LIMEY CLAY EUSED AS BACK FIL TINGTO COMPACT BO N WITH JUMPING JA	AND PAINTED UP TH GPS, VARRIVED ONS ALONG SURFACE DE LAROUND CMP. TTOM OF SURFACE CK PLATE COMPACT UCTURE FOR DETAIL	ALL AREAS THA ITE CREW W RAIN TREWCH CREW WAS JUST E DRAIN TREWCH DR.
SURF NEEL 9:15 A.M. AD PILIN TO BE STAR AGAU 9:21 A.M. PIC 9:50 A.M. OB WITH	EACE DRAIN PIPE DRESSED UP W DAM AND CARSON OG UP-LIMEY CLAY EUSED AS BACK FIL TINGTO COMPACT BO NWATH JUMPING JA TURE # 3371 SEE P SERVER CHECKED GR GRS AND GRADE CHE	AND PAINTED UP TH GPS. U ARRIVED ON S ALONG SURFACE DE L AROUND CMP. TTOM OF SURFACE CK PLATE COMPACT UCTURE FOR DETAIL ADE BELOW 36" CK ED OUT GOOD.	ALL AREAS THA ITE, CREW W RAIN TREWCH CREW WAS JUST E DRAIN TREWCH DR. S. MR SURFACE DRAI.
SURF NEEL 9:15 A.M. AD PILIN TO BE STAR AGAU 9:21 A.M. PIC 9:50 A.M. OB WITH	EACE DRAIN PIPE DRESSED UP W DAM AND CARSON OG UP-LIMEY CLAY EUSED AS BACK FIL TINGTO COMPACT BO NWATH JUMPING JA TURE # 3371 SEE P SERVER CHECKED GR GRS AND GRADE CHE	AND PAINTED UP TH GPS. U ARRIVED ON S ALONG SURFACE DE L AROUND CMP. TTOM OF SURFACE CK PLATE COMPACT UCTURE FOR DETAIL ADE BELOW 36" CK ED OUT GOOD.	ALL AREAS THA ITE, CREW W RAIN TREWCH CREW WAS JUST E DRAIN TREWCH DR. S. MR SURFACE DRAI.
SURF NEEL 9:15 A.M. AD PILIN TO BE STAR AGAU 9:21 A.M. PIC 9:20 A.M. OB WITH 10:00 A.M. C	EACE DRAIN PIPE DRESSED UP W DAM AND CARSON VG UP-LIMEY CLAY EUSED AS BACK FIL TINGTO COMPACT BO N WITH JUMPING JA TURE # 3371 SEE P SERVER CHECKED GR	AND PAINTED UP TH GPS. U ARRIVED ON S ALONG SURFACE DE L AROUND CMP. TTOM OF SURFACE CK PLATE COMPACT UCTURE FOR DETAIL CAUE BELOW 36" CK ED OUT GOOD. XCAUATE TO BE I	ALL AREAS THA ITE, CREW W RAIN TREWCH CREW WAS JUST E DRAIN TREWCH DR. S. MR SURFACE DRAI.
SURF NEET 9:15 A.M. AD PILIA TO BE STAR AGAU 9:21 A.M. PIC 9:20 A.M. DB WITH 10:00 A.M. C METAL	EACE DRAIN PIPE DRESSED UP W DAM AND CARSON VG UP-LIMEY CLAY EUSED AS BACK FIL TINGTO COMPACT BO N WITH TUMPING JA TURE # 3371 SEE P SERVER CHECKED GR GRS AND GRADE CHE CREW STARTING TO E LANTISEEP COLLAR	AND PAINTED UP IT H GPS, V ARRIVED ON S ALONG SURFACE DE L AROUND CMP. ITOM OF SURFACE CK PLATE COMPACT KCTURE FOR DETAIL CK ED OUT GOOD. XCAVATE TO BE I	ALL AREAS THA ITE CREW W CAIN TREWCH CREW WAS JUST E DRAIN TREWCH DR. S. ME SURFACE DRAIN NSTALL ORIGINAL
SURF NEET 9:15 A.M. AD PILIA TO BE STAR AGAI 9:21 A.M. PIC 9:20 A.M. DB WITH 10:00 A.M. C METAL	EACE DRAIN PIPE DRESSED UP W DAM AND CARSON WE UP LIMEY CLAY EUSED AS BACK FIL TINGTO COMPACT BO N WITH JUMPING JA TURE # 3371 SEE P SERVER CHECKED GR GRS AND GRADE CHE REW STARTING TO E ANTISEEP COLLAR scribed in this report was incorpora	AND PAINTED UP TH GPS, UARRIVED ON S ALONG SURFACE DE LAROUND CMP, TTOM OF SURFACE CK PLATE COMPACT UCTURE FOR DETAIL CK ED OUT GOOD CK ED OUT GOOD CK ED OUT GOOD	ALL AREAS THA ITE CREW W RAIN TREWCH CREW WAS JUST E DRAIN TREWCH DR. S. ME SURFACE DRAIN NSTALL ORIGINAL herwise noted.
SURF NEET 9:15 A.M. AD PILIA TO BE STAR AGAU 9:21 A.M. PIC 9:20 A.M. DB WITH 10:00 A.M. C METAL	EACE DRAIN PIPE DRESSED UP W DAM AND CARSON VG UP-LIMEY CLAY EUSED AS BACK FIL TINGTO COMPACT BO N WITH TUMPING JA TURE # 3371 SEE P SERVER CHECKED GR GRS AND GRADE CHE CREW STARTING TO E LANTISEEP COLLAR	AND PAINTED UP IT H GPS, V ARRIVED ON S ALONG SURFACE DE L AROUND CMP. ITOM OF SURFACE CK PLATE COMPACT KCTURE FOR DETAIL CK ED OUT GOOD. XCAVATE TO BE I	ALL AREAS THA ITE CREW W CAIN TREWCH CREW WAS JUST E DRAIN TREWCH DR. S. ME SURFACE DRAIN NSTALL ORIGINAL

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	,	
CONSTRUCTION ENGINEERING OBSERVATION REPORT	DATE:	04/17/2020
PROJECT NUMBER: MARDIN DD WO# 237	DAYS OF WEEK:	SMTWTØS
COUNTY, ROUTE, ROAD: SOUTH OF 1957H STRUET OF USHWY 65 & 15 33'1	EAS SHEET NO.	OF3
LOCATION: SWSE 23-88-21 HARDIN NORTH SIDE OF OPEN DRAWAGE	LOW.	SO'S TO LOW 30'S , UNDY / PARTLY SUNNY
DESCRIPTION OF WORK AND MATERIAL USED F NAME, ITEM NO. AND LOCATION	OR EACH OPERATION, IN	JOB # 64860048, SURVEY
10:12, A.M. PICTURE # 3372 5	EE PICTURE FOR	DETAILS.
10:37 A.M. PICTURE # 3373 & 10:	39 PICTURE # 3374	SEE PICTURE FOR DETAILS
11:3 AIM, PICTURS# 3375 5	SE PLIT AT ENDE	
11:40 A, M, PICTURE # 3376 &	PICTURE # 3377 5	EE PICTURE FOR DETAULS
12:05 P.M. CREW HAD 36" C	MP SHRFACE DA	AIN SETINPLACE
12:10 P.M. PICTURE# 3379 & PIC	TURE # 3380 SEE	PICTURE FOR DETAILS.
12:47 P.M. PILTURG # 3382 2. 12:48 P	M. PICTURE # 338	SEE PICTURE FORDETHILS
1:15 P.M. PILTURE # 3384 &	PICTURE # 3385	SEE PICTURE FOR DETAILS
1:35 P.M. PICTURE# 3386 8	1:41 P.M. PICTURE #	3387 SEE PICTURE FOR DETAILS
Z: OD P.M. GREW BACK FILLING	AROUND SURFACE	DRATIN & ROUGH
GRADING WATERWAY.		
2135 P.M. PICTURE # 3388 & PICTURE	# 3389 SEE PUT	ARE FOR DECAN S
2:46 P.M. PILTURE# 3390 SEE P	CTURE FORDETA	ILC
3:00P.M. OBSERVER CALCU	LATED GRADE	FRAM CAR SUBFACE
DRAIN UP GRASS WAT	ERWAY SE	E SKETCH FORDETAILS
3:45 P.M. STAKED GRADE TH	ROUGH GRASS	ATERIAL SAP
CONTRACTOR TO F	INCSH GRADE	ANI SATISCOPIC
4:00 P.M. CREW LEFTSI	TE FOR DAY	and enclony_
4146 P.M. PICTURE # 3391, PICTO	URE# 3397 PU	+1105 # 329 2 0157405
# 3394 SEE PICTURE F	FOR DETAILS	and a so is provide
4:47 P.M. PICTURE # 3395, 414	SP.M. PICTURE	3397 X 4:57 PM PUTURS#3299
SEEPICTURE FORDET		a constants
STODP, M. OBSERVER LEFTSITE.		H RACE EN LINE DE ANNE
BITCHBANK AND FINE 6	RADE BANK A	ALD CRACE WHAT TO LICK
OW SATURDAY AND THE	W SEED AREA	LIFF SAID LUS WILL
GET PICTURES WHEN THEY	AREFINISHEI	D. BACKELLING AND
MAVE IT SEEDED		
Certify that the work described in this report was incorpo	rated into this contract unles	
Observer's Signature: Dean Penning	Date Prepared	04/17/2020
Reviewed by:	Engineer	
		Date Reviewed

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CONSTRUCTION ENGINEERING OBSERVATION REPORT	DATE:	04/17/2020
PROJECT NUMBER: HAROIN DD WOH 237	DAYS OF WEEK:	SMTWTES
COUNTY, ROUTE, ROAD: SOUTH OF 1957 BOST & SOUTH OF 1957 BIS 33'1'W	SHEET NO.	3 OF 3
LOCATION: SWSE 23-88-21 HARDIN NORTH SIDE OF OPEN DRAINAGED	ITLH #48 MOSTLY CLUM	S TO LOW 30'S, DY / PARTLY SUNNY
DESCRIPTION OF WORK AND MATERIAL USED FO NAME, ITEM NO. AND LOCATION	REACH OPERATION, INC	UDING CONTRACTOR/SUB
SKETCH		······································
(¥) (PS	# 403 FL 1092.32'	<u> </u>
N A COSHI	0+33.73 130 FL 1091.36	1012.34-1084.34 = 2,8:25%
	429 0+8234 FL 108	1.99
GPS	0+97. 54428 FL 36"CAPP 1089	15/4
	5#428 FL 36"CM9P 1089 5#426	,57
ANTISEEP GISHTEP	RS#436 CMP CRA	E 1089.57 - 1088.291
AUTISECT CISH435		39.97 = 5.270
e18.4'	- 6PS# 427 FL 36" CMP	1088.29'
DRAINAGE DL	TCH	33' ABOVE FL DD
QUANTITIES		
ADAM 63/4 HOURS		
CARSON 63/4 HOURS		
PERRY & HOURS		
JEFF 8HORS		
TAKENCHII TBIBOFR MINIEXC		
the second se	AVATOR 8 HOL	IRS
CASE TR 340 TRACKED SKIDLOAD		IRS
CASE TR 340 TRACKED SKIDLOAD	ER 8 HOURS	IRS
CASE TR 340 TRACKED SKIDLOAD	OADER SHOURS	
CASE TR 340 TRACKED SKIDLOAD	OADER SHOURS TOR 6 HOURS	5
CASE TR 340 TRACKED SKIDLOAD CAT 299D XHP TRACKED SKIDL JUMPING JACK COMPAC HOPE ANTI SEEP COLLAR 48	ER 8 HOURS OADER 8 HOURS TOR 6 HOUR OLTS, 4 ZIP. TIES, Z	S METAL BANDS
CASE TR 340 TRACKED SKIDLOAD CAT 299D XHP TRACKED SKIDL JUMPING JACK COMPAC HOPE ANTI SEEP COLLAR 48 I Certify that the work described in this report was incorpora	ER 8 HOURS OADER 8 HOURS TOR 6 HOUR OLTS, 4 ZIP. TIES, Z	- METAL BANDS herwise noted.
CASE TR 340 TRACKED SKIDLOAD CAT 299D XHP TRACKED SKIDL JUMPING JACK COMPAC HOPE ANTI SEEP COLLAR 48 I Certify that the work described in this report was incorpora	ER 8 HOURS OADER 8 HOURS TOR 6 HOURS OLTS, 4 ZIP. TIES, Z uted into this contract unless of	S METAL BANDS

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PILTURE # 337/ 15 LOOKING SE SHOWING CREW JUMPING JACK VIBRATORY PLATE COMPACT SOIL BELOW 36" CAMP SURFACE DRAIN,



PICTURET 3372 IS LOOKING SW SHOWING 1.0 × 7.0 WIDE TRENCH FOR ORIGINAL METAL ANTI SEEP COLLAR 7.0 ± SE OF NORTHEND OF CMP SURFACE DRAIN. BOTTOM OF TRENCH IS CLAV. PICTURE# 33 73 IS LOOKING NORTH SHOWING CREW HAVING ORIGINAL METAL ANTISEEP COLLAR IN PLACE (7.0'SE OF NORTH END OF CMP SURFACE DRAIN. CREW HAULING IN LIMEY CLAY SOIL TO BACKFILL AROUND ANTISEEP COLLAR.



N



PLATE COMPACTING BACKFILL SOIL AROUND METAL ANTISEEP COLLAR BEFORE SURFACE DRAIN INSTALLED. PILTURE # 3375 IS LOOKING NW AT HO WIDEX 7.0' LONG TREWCH 19.0'SE OF NORTH END. OF CMP SURFACE DRAIN FOR HOPE ANTISEEF GUAR. BOTTOM OF TRENCH WAS SAND, OVER, EXCAUNTED, ADDED LIMEY CLAY TO BOTTOM OF TRENCH AND; SUMPING JACK. COMPACTED BOTTOM OF TRENCH . UP. TO BOTTOM OF ANTISEEP





PICTURE # 3376 IS LOOKING NW SHOWING CREW VIBRATORY PLATE COMPACTING AROUND HOPE ANTISEEP COLLAR PICTURE # 3377 +5 LOOKING SW AT BACK FILL SOLL JUMPING FACK COMPACTED AROUND HOPE ANTISEEP COLLAR 7.0'\$ SE OF NORTH END OF SURFACE ORAIN BEFORE SURFACE ORAIN INSTALLED.





COMPACTED BY JUMPING JACK COMPACTOR 19'+ SE OF NORTH END OF SURFACE DRAIN BEFORE SURFACE DRAIN INSTALLED. PILTURE # 3379 IS LOOKING SW SHOWING 36" CMP SURFACE DRAIN SET IN PLACE WITH CREW BACKFILLING LIMEY CLAY AROUND SURFACE DRAIN AND TAMPING SOIL UNDER HAUNCHOF



PICTURE # 3380 IS LOOKING : SW SHOWING CREW TAMPING IN BACKFILL SOIL UNDER MAUNCHOF CMP PICTURE # 3382 IS LOOKING SW SHOWING ORIGINAL CMP. ANTISEEP COLLAR BOLTED ON 36"CMP 6.5' & SE OF NORTH END OF 36"CMP SURFACE DRAIN.





PILTURE#3383 IS LOOKING SW SHOWING HOPE ANTISEEP COLLAR IN PLACE 18.4' SEOF NORTH ENDOF 36" CMP SURFACE DRAIN, PICTURE #3384 IS LOOKING NW SHOWING HOPE ANTISEEP COLLAR IN PLACE WITH YBOLTS ON EAST SIDE AND 4 ZIPTIES ON WEST SIDE TO FASTEN HOPE ANTISEEP COLLAR TO GETHER.





PICTURE#33 85 IS LOOKING NW SHOWING CREW JUMPING TACK BACKFILL SOIL AROUND CMP PILTURE # 3386 IS LOOKING WE SHOWING METAL BAND AROUND HOPE ANTISEEP COLLAR TO HOLD IT ON 36"CMPSURFACE BRAIN.



PICTURE # 3387 IS LOOKING NE SHOWING CREW STILL. JUMPING JACK COMPACTING AROUND CMP SURFACE DRAIN PILTURE # 3388 IS LOOKING SE SHOWING CREW DRESSING UP BORROW AREA.



PICTURE # 3389 IS LOOKING SW FROM BORROW AREA TO CMP SURFACE DRAIN REPAIR ABOUT 713.6' TO SW



PICTURE# 3391 IS LOOKING NWAT DRAINAGE DITCH BANK GETTING BACKFILLED AROUND 36" CMP SURFACE ORAIN.



AROUND CMP SURFACE DRAIN OUTLET



615# 429 GRADE STAKE



PILTURE# 3393 IS LOOKING NW SHOWING CREW BACKFILLING DRAINAGE DITCH BANKAROUND CMP SURFACE DRAIN & AROUND HOPE ANTI SEEP COLLAR. PICTURE # 3394 IS LOOKING NW SHOWING CREW BACKFILLING DRAINAGE DITCH BANK AROUND 36"CMP & HOPE ANTISEEP COLLAR







PICTURE # 3395 IS LOOKING NW SHOWING GRASSWATERWAY ROUGH GRADED. OBSERVER SET SOME GRADE STAKES FOR CONTRACTOR. PICTURE # 3397 IS LOOKING SE AT GRASS WATER WAY ROUGH GRADED TO 36" CMP SURFACE DRAIN AND CREW STILL BACKFILLINGDRAINAGE DITCH BANK ARDAND SURFACE DRAIN



EPS 435 WATERWAY GRADING STAKE INCINE WITHCOMP & IS'FROM INLET



PICTURE #3399 IS LOOKING SWAT BORROW AREA. BACKFILLED AND ORESSED UP.

6486 DD48 2020-4-17 DP 1,3602676.898,4993688.886,1115.916,ALUMDISK USGS8044 2,3608004.217,4988361.487,1119.137,IRF 3/4 IN CONC 3,3611327.273,4988329.498,1128.375,IRS 5/8 4,3612153.256,4988347.454,1095.431,CUT X FND SWABUT 5,3613286.845,4988330.242,1125.498,IRS 5/8 CP231,3612876.886,4987405.804,1088.369,TOP CMP 6" ASB 300,3611328.734,4988331.460,1128.168,CPT 34 IR 400,3613626.247,4986822.289,1092.289,cmp 36" 3.0'toptofl 401,3613590.040,4986838.297,1087.672,cmp 36" 3.0'toptof1 402,3613720.443,4986839.906,1094.536,gs flag 403,3613721.152,4986821.509,1092.316,gs flag 404,3613722.903,4986799.484,1093.715,gs flag 405,3613813.766,4986795.290,1095.842,gs flag 406,3613817.992,4986811.969,1094.489,gs flag 407,3613820.193,4986827.755,1095.612,gs flag 408,3613910.705,4986785.675,1096.879,gs flag 409,3613907.516,4986768.266,1095.962,gs flag 410,3613903.006,4986752.460,1097.030,gs flag 411,3613636.774,4986817.142,1090.690,fl swale 412,3613635.531,4986818.222,1090.618,fl swale 413,3613616.875,4986828.561,1089.127,top anti seep 414,3613599.147,4986834.181,1088.605,cmp 36" top 415,3613617.398,4986826.107,1091.007,cmp 36" top 416,3613608.386,4986830.212,1089.721,cmp 36" top 417,3613614.631,4986823.841,1089.697,top anti seep 418,3613576.462,4986845.047,1084.952,fl dd 419,3613578.482,4986846.184,1084.414,fl dd 420,3613581.637,4986835.846,1084.859,fl dd 421,3613588.417,4986828.739,1084.417,fl dd 422,3613587.277,4986815.232,1084.650,fl dd 423,3613588.114,4986844.983,1088.230,proposed fl 424,3613624.895,4986830.309,1089.420,proposed fl 425,3613617.753,4986829.327,1091.024,antiseep metal top w side 426,3613620.209,4986835.829,1090.821,antiseep metal top E side 427,3613588.021,4986845.293,1091.274,CMP 36" TOP OUTLET 2.98'TOPTOFL 428,3613624.989,4986830.094,1092.551,CMP 36" TOP INTLET 2.98'TOPTOFL 429,3613638.862,4986824.390,1089.990,PROPOSED FL 430,3613687.437,4986822.483,1091.360,PROPOSED FL 431,3613624.989,4986830.095,1089.570,FL 36" CMP 432,3614148.132,4987315.378,1127.832,GS BORROW 433,3614135.149,4987351.086,1129.244,GS BORROW 434,3614172.174,4987361.871,1129.605,GS BORROW 435,3614184.452,4987327.502,1128.794,GS BORROW 436,3613609.293,4986840.487,1093.869,antiseep HDPE top E side 437,3613606.809,4986834.049,1094.105,antiseep HDPE top W side 438,3613638.862,4986824.390,1092.551,Cogo 8043,3618478.920,4993657.660,1142.710,ALUMDISK USGS 8043_GNSS,3618478.920,4993657.660,1142.710,Autonomous Setup

	lardin County					
termine the external sector of the state of the sector of	1/1/2017			١	Work Orde	r# 195
District # Big / Township Alde	and and experiences remaining elementation (see and states) and see also be a service second s		en Ditch	Fund #	an the second	51197
Alde	E μ = 1 (μ = 1) is simple is in technic term may μim (see line lappings spectrum). It is imposite probability descendence	Section <u>30</u>	Twp 89	Rge 22	Qtr Sec	NW1/4
Repair Requested By Address	Tim Burton		است می است. می بید می است	Phone	(515) 68	89-3658
Landowner	James Crisp or Abigail Farms					
Address	GIS 892230100003 or 8922303	00008	nar Fa Chail de Chailean anns ann an Aonaich a tharainn an ann an Aonaichte an Aonaichte ann an Aonaichte an A	Phone	1994 - Barnik Lalam J. Agama para bartagan in Jahapi pada angan	Lodo't nies och dändt dependepen opp
Request Taken By	Angela Silvey	mmigh hank seeks to servite waters on Papers, Name Ad Hause Padages () 1919 Ad 19 searces	na contra con	na di katan dali jadiji dugi dukomuni menumung		Plan transfer, grgam-digitalisti de degitale
Available for Repair N	low? Ves		ſ	Date Available		
Problem Description	Beaver dam in ditch on the dead	l end gravel road.				
		l end gravel road.				
Repair labor, materia			No-Repair and a	maintain tile		
Repair labor, materia Potential Wetlands?	ls and equipment		No-Repair and i	maintain tile		
Repair labor, materia Potential Wetlands? Repaired By:	ls and equipment		No-Repair and a	maintain tile		
Repair labor, materia Potential Wetlands? Repaired By: Date: Please send statemen Phone (641) 9 Fax (641) 939-	Is and equipment	Y Hardin Count Attn: Tina Sch	ty Auditor's Offi	ce		



Date Submit	REQUEST 3700 ted Wed, Nov 1, 2017 y Angela Silvey	Hardin County Secondary Roads Dept 708 16th Street Eldora, IA 50627-0534	
Name	Tim Burton	Address	
Company		2	
Phone	515-689-3658	Email	
Callback Red	juested Yes		
	国人民的新闻社会、新闻的高级学校网络公共工		
Туре	Informational Message	Sub-Type	
Address	10001-10267 145th Street Alden, IA 50006	S-T-R	S30 - T89N - R22W
District		Civil Township Coordinates	Alden 42.492779, -93.495575
Bridge	(4391) 176830	Length	12.492//8, -93.4933/3
runshiri in sin			
Assigned To	Not Assigned	Status	lew
Priority	Normal	Date Closed	
Update (field	use only)		

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10.00

Wash Request 2011 Page 2012 Wet March 2017 - 1997

Drainage District:

Big 4, Lat 4

Investigation/Repair Summary:

- Landowner in the SW¼ NW¼ of Section 30, Township 89 North, Range 22 West reported a beaver dam in the Lateral 4 Open Ditch at the end of 145th Street.
- Visual observation found a small beaver dam north of the intersection of 145th Street on the Lateral 4 Open ditch. Further north, a 4-feet tall beaver dam beneath the CNRR approximately 550-feet north of 145th Street.
- The contractor originally contacted to facilitate the removal of the observed beaver dams did not complete said removal, and an alternate contractor was found. Said contractor went to the site with removal equipment and inspected in each direction from the reported beaver dams. Remnants of the reported dams were found (dams had washed out), but no active dams or beavers were found.

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

None, ast the beaver dams were not removed by the contractor

Additional Actions Recommended:

Monitor the area for beaver activity so that trapping and dam removal can be completed as needed.



CONSTRUCTION ENGINEERING	G	DATE:	11/22/17
OBSERVATION REPORT PROJECT NUMBER: COUNTY, ROUTE, ROAD: DD BIC 4 LOCATION: YOUNGE AVE, E. TO CCRR	, LAT 4	DAYS OF WEEK: SHEET NO.	SMTWTFS (OF)
9:15 P.M. DRUK IN ON YOUNG, S. OF RK.	J Simmy , 3	9°, BREEZY FROM S.	DRY CONDITIONS
DROVE N UN W SIDE OF DDY. DROVE N TO RR TRACKS FOUND 4' NEW RR BRIDGE JUST UNDER N. EDG. DITCH IS DEED ENDUCH TAPT EXTENDED.	Found SI High Car & OF BRIDG	mar EARTHIN DAM	200' N. OF BRIDER.
	TX ASAP		· · · · · · · · · · · · · · · · · · ·
LAT 4 LAND		"I' TALL BEAMAR DAM, U.	NDER N. ENE RE BRIDGE R
		STRALL DAIN.	
	BRIPER		
I Certify that the work described in this report was Observer's Signature: Reviewed by:	as incorporate	d into this contract unless of Date Prepared:	Date Reviewed
Users\Ryken Standard Forms and Procedures\Company Forms\Cons	struction Engineeri	ng Observation Report (1)	







Drainage Work Order Request For Repair Hardin County

Date:	4/22/2019		
Work Order #:	WO0000247		
Drainage District:	DDs\Big 4 Main (51193)		
Sec-Twp-Rge:	Qtr Sec:		
Location/GIS:			
Requested By:	Hands On		
Contact Phone:			
Contact Email:			
Landowner(if different):			
Description:	Big 4 Main - Bank washed out about 350 yards of the S. Fork/Big 4 Main	east of C Ave on the south bank	
Panair labor mataria	als and equipment		
Repair labor, materia			
Repaired By:		Date:	
Please reference wor	k 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





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

Drainage District:

Big 4

Investigation/Repair Summary:

- Contractor in the area reported a washout in the south bank of the Big 4 Main open ditch in the NW¼ NW¼ Section 5, Township 88 North, Range 22 West.
- Due to the surrounding topography directing water towards the washout, a surface drain was decided upon for the washout repair.
- Washout area was graded and a 36-inch CMP surface drain tile with anti-seep collar installed.
- Backfilling and grading of the bank repair was completed while CGA was not on-site. When observation of the completed work was conducted, it was found that the CMP surface drain was dented during installation of the backfill.
- Damaged 36-inch CMP surface drain was replaced and backfill and grading completed by contractor while CGA was not on-site. Observation of the work completed found the CMP surface drain in good working order, but the grading around said surface drain was found to possibly be in need of a final dress, and the grass seeding possibly in need of additional coverage. These items were likely not completed due to poor construction conditions (wet) at the time.

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

See attached Tabulated Contractor Time and Materials Sheet. Note, some work was completed without CGA on site.

Additional Actions Recommended:

Contractor should be contacted to complete, a final dressing of the grading, and additional seeding with a CGA observer on site.



Date	Totals	5/16/2019
Workman (hrs)	3	3
Excavator (hrs)	1	1
36" CMP Surface Drain (ft)	40	40
Anti-Seep collar (ea.)	1	1

Tabulated Contractor Time and Materials



CONSTRUCTION ENGINEERING OBSERVATION REPORT	DATE:	5/13/19
PROJECT NUMBER: COUNTY, ROUTE, ROAD:	DAYS OF WEEK: SHEET NO.	S MOT W T F S
LOCATION: BIG 4 OPEN diren		
DESCRIPTION OF WORK AND MATERIAL USED FOR ENAME, ITEM NO. AND LOCATION		UDING CONTRACTOR/SUB
WALVED IN, TOOK PICS OF FINISHER		
GRAVE, NO ANT: SPEED COMPT ON SITE	"cmp. Cmp is	
5/20/18; Survey, 50°, Daying Concernans,		
OF SETING NEW CMP W. OF OLDER EXISTING CA		
ANERT OF COMPS. WATER IS GOING drown, HE (• •	
		termon an a
1		
· · · · · · · · · · · · · · · · · · ·		
	······································	
I Certify that the work described in this report was incorporate		
Observer's Signature:		13/18
Reviewed by:	Engineer	
		Date Reviewed

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CONSTRUCTION ENGINEERING OBSERVATION REPORT PROJECT NUMBER: 5734-1	DA	TE: YS OF WEEK:	SMTWXFS
COUNTY, ROUTE, ROAD: Big 4 ma		EET NO.	OF
DESCRIPTION OF WORK AND MATERIAL NAME, ITEM NO. AND LOCATION	USED FOR EACH		CLUDING CONTRACTOR/SUB
9:00 em - arrived on Site -	- 3mon	+ excavor	ted
9:40 am - Sit in Surface away from inte		ith antis	Seep collar 13
9:45am - Left Site - c	crev still p	need to B	Beckfill eround pipe
I Certify that the work described in this report was Observer's Signature:		this contract unles Prepared:	s otherwise noted. $5 - 17 - 2019$
Reviewed by:		gineer	•
			Date Reviewed

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CONSTRUCTION ENGINEERING OBSERVATION REPORT	DATE:	2019-8-5
PROJECT NUMBER: 5734.1 COUNTY, ROUTE, ROAD: Big LOCATION: C $A \vee C$	DAYS OF WEEK: SHEET NO.	S MIT W T F S OF
DESCRIPTION OF WORK AND MATERIAL USED FO NAME, ITEM NO. AND LOCATION	 R EACH OPERATION, INC	LUDING CONTRACTOR/SUB
1:00 - went to the check - pipe was Bactfilleo	on Backtilli	
- pipe is Domgod on	inside (see	photos)
parged over	10-20 feet in	n side piza
5,5-291-29	318	
Bring +	t	
South sike 36"		
	······	
I Certify that the work described in this report was incorpora Observer's Signature: Reviewed by:	Date Prepared:	therwise noted.
	_ Engineer	Date Reviewed

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CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

SHEET NO.

DAYS OF WEEK:

PROJECT NUMBER:	5734.1
COUNTY, ROUTE, ROAD:	D-15 and C Ave
LOCATION: Hardin Co	unty Big Four D.P.

 $\frac{3 - 25 - 20}{S M T W T F S}$

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

10:26 a.m. = Arrived at job site. Weather = cloudy, patchy
doizale temperatures = 40's
The second concerne reporter rocerner
and size of surface drain to Field Observer.
Surface drain is a 36 CMP, East of C. Avenue and on
South side of Drainage Ditch. North of clump of trees.
- walked out to surface drain replacement. 36" CMP
40.5 long with no opron or rip rap ground inlet or outlet.
Water is Plowing through CMP. Area at top of berm and
around inlet could use some additional grading and seeding
after soils have dried. Current soil conditions to wet
to share or seed.
12:00 p.m. = Retyrand to office.
I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Certify that the work d	lescribed in this	s report w	as incorpora/	ted into this contra-	ct unless otherwise noted.	
Observer's Signature:	James	Van	Hore	Date Prepared:	3-25-20	
Reviewed by:	\mathcal{D}			_ Engineer	and a second	
					Date Reviewed	

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Drainage Work Order Request For Repair Hardin County

Date:	12/9/2019
Work Order #:	WO0000281
Drainage District:	DDs\DD 118-232D2 (51226)
Sec-Twp-Rge:	<u>32-89-22</u> Qtr Sec: <u>NW 1/4</u>
Location/GIS:	89-22-32-400-003
Requested By:	Sterling Renaud
Contact Phone:	(515) 689-8661
Contact Email:	
Landowner (if different):	Burton, Floyd
Description:	DD 118-232 Dv2- Sterling Renaud reports plugged tile outlet on east side of AA Ave, just north of County Hwy D25, about 4 telephone poles north of D25 on east side of AA Ave. nearest parcel is 892232400003. Tile outlet is plugged with dirt/debris and has no flow. Tile outlet is in ditch and has been flagged by Sterling. Map reflects tile has road

crossing at this location, so not sure if this is a tile outlet or a tile blowout.

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:			



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.

Drainage District:

#118-232, Branches 2CA and 2B5

Repair Summary:

- Per the recommended actions of the investigation summary, began repair by excavating in the west ditch of AA Avenue (SE¼ SW¼ Section 32, Township 89 North, Range 22 West) where the 15-inch beehive intake improperly connected to Branch 2CA was found to be completely full of soil and very little space for water to drain.
- Removed soil from the concrete intake and made a larger drain hole in the underlying 8-inch Branch 2CA concrete tile so that water can freely drain from the structure. Within said tile, water was found to be flowing freely. The surrounding road ditch was also graded to provide positive drainage towards the intake.
- Moving south (toward Hwy D25), excavated at the blowouts/sinkholes immediately adjacent to the 24-inch beehive intake on the Branch 2B5 tile. Upon excavation it was revealed that the 8-inch VCP tile between the 24-inch concrete inlet and the 8-inch Branch 2B5 CMP tile (further downstream) was broken. Also found in the same excavation was a poor connection between a private 6-inch tile and the 8-inch CMP Branch 2B5 tile.
- Removed the beehive intake and repaired with an 8-inch Hickenbottom intake, 8-inch single wall HDPE, internal snap coupler, full concrete collar, and rock bedding and backfill.
- Repaired connection of private tile to the Branch 2B5 tile with a ¾ concrete collar.
- Excavations were then filled with on-site soil, and surrounding road ditch was graded to provide positive drainage slope towards the intake.
- The two other blowouts/sinkholes reported on the south Side of County Highway D25 were found to have been created by burrowing animals, and not due to tile breaks.

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

See attached Tabulated Contractor Time and Materials Sheet.

Additional Actions Recommended:

- More grading and cleanout needs to be completed in the road ditches of AA Avenue to provide positive drainage slope towards the intakes repaired in this Work Order. This includes the east road ditch of AA Avenue, where soil is partially limiting flow to the 36-inch culvert that drains towards the southernmost intake. Secondary Roads should be contacted to complete said grading.
- Secondary roads should also be contacted to complete grass seeding in the areas repaired.



Date	Totals	6/15/2020	6/16/2020
Workman (hrs)	30 1/2	22 1/4	8 1/4
Mini Excavator (hrs)	11 1/4	8 1/2	2 3/4
Skidloader (hrs)	11 1/4	8 1/2	2 3/4
1" Clean Bedding Rock	Yes		
Concrete Collars	Yes		
Hickenbottom Intake (ea)	1	11	
8" Single Wall HDPE Tile (ft)	4 1/2	4 1/2	
8" HDPE Snap Coupler (ea)	2	2	

Tabulated Contractor Time and Materials



CONSTRUCTION ENGINEERING OBSERVATION REPORT	DATE:	06/03/2020
PROJECT NUMBER: HARDIN DO WO # 28/ 8778.1 8778.1 COUNTY, ROUTE, ROAD: 55' 017CH AA AVE 55' 2 1312' NORTHOF 55' 2 1312' NORTHOF	DAYS OF WEEK: Z SHEET NO.	SMTWTFS
LOCATION: SE'4 SW 44 32-39-22 HARDIN REPAIR BLOWOUT / PLUE ON BRANCH	CB SH	SO'S TO LOW 60'S NNY AND WINDY

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION. INCLUDING CONTRACTOR/SUB

7:30 A.M. ADAM CALLED OBSERVER THINKING IT WAS ANOTHER
SURFACE DRAIN ISSUE, OBSERVER INFORMED HIM THAT
THIS PROTECT WAS ATTILE BLOWOUT SOUTH OF BEEHIVE
INTAKE & ALSO INVESTIGATE SMALL BLOWOUTS EAST
OF 3576 LOHWY DES ACREAGE DRIVE (HAMILTON COUNTY)
7:45 AM, ADAM CONTAGTED STERLING RENAUD AND TOLD ADAM
THAT HE DOES NOT WANT ANY BODY IN SEED CORN FIELD.
WILL HAVE TO WAIT TILL FALL IF REPAIR ENDS UP :
IN FIELD, ADAMALSO ADVISES THAT HIS LOCATES ARE
- NOT READY YET EITHER BUT MAY LOOK AT REPAIR
TO FIGURES WHAT NEEDS DONE.
TOA.M. OBSERVER TALKED TO LEE ABOUT ADAMS LOCATES
NOT BEING DONE AND STERLING RENGUO NOT WANTENG
AWY BODY IN SEED CORN FIELD WHEN DOING REPAIR
LEE SAID HE WOULD TALK TO STERLING ABOUT IT.

06/04/2020 OBSERVER CALLED ADAM ANOHE IS WAITING TILL 06/05/2020 TO 60 UP TO REPAIR WHEN LOCATES ARE DONE.

NOT BE WORKING TODAY AND NEXT WEEK ADAM WILL BE GONETOD, DESERVER INFORMED LOE.

I Certify that the work described in this report was incorporated into this contract unless otherwise noted. Observer's Signature: Date Prepared: DeanPenn 06/03/2020 Reviewed by: Engineer Date Reviewed

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CONSTRUCTION ENGINEERING OBSERVATION REPORT	DATE:	06/15/2020
PROJECT NUMBER: HARDIN DO WO # 281	DAYS OF WEEK:	SOTWIFS
<u>8778.1 / 00# 118-22</u>	SHEET NO.	OF 4
656' & 1312' NORTH OF		
LOCATION: SE14 SW14 32-89-22 HARDIN	8. BRG	
DESCRIPTION OF WORK AND MATERIAL USED FOR E	A	
NAME, ITEM NO. AND LOCATION	M TEXT OBSERVER WORKING ON THIS.	IDING CONTRACTOR/SUB
TOSA, M. LEE SENT TEXT THAT	ADAM WOULD A	BE WORKING ON
THIS PROJECT AND WOULD	NOT BE ON SIT	E UNTEL GOOMM.
8:10 A.M. OBSERVER HADFILE AND	EQUIPMENT	LOADED UP FOR
TILE REPAIR.		
BIYSAIM OBSERVER ARRIVED ON:	TE AT STOPPE	ED AT REPAIR LOCATION
WITH CREW NOTON SITE YET.		
8:54 A.M. PILTURE # 3736 & 8:58 A.	M. PICTURE # 3	737 SEE PICTURE FOR DETAILS
9:00 A.M. OBSERVER SET 6PS BASE OF	N GPS # 1000 2 3	" FRON REROD 0.5"
IN NW CORNER OF IST FIELD ON		
CO HWY DZ5.		
9:30 A.M. CREW ARRIVED ON WI	TH ADAM, PER	RV AND CARSON
ON SITE WITH KOLBELLOSK	8565 MINIEV	AUTOS AND CAT
299 D XHP TRACKED SKIDLOR		
9:30 A.M. OBSERVER CHECKED - 11	VTO 685 # 1082	2 MAG NAIL FLUSH
IN ACC WITH HORIZONTAL' POSITION	CHECKING GOOD &	VERTICAL POSITION
WITHIN REASON SHOWING FT 0.04"		a striller
9:50 A. M. CREW STARTED EXCAUNTING	AT 15" BEE HIVE	INTAKE WITH
BEEHIVE COMPLETELY FULL OF S		
10:32 A.M. PICTURE # 3738 & 10:50 A.M.	PILTURE # 3739	SEE PICTURE FORDETHILS
10:50 A.M. PICTURE # 3740 & 11:02 AIM	. PICTURE # 3741	SEE PICTURE FOR PETAILS
11:00 A.M. ADAM AND CARSON H	EADLING TO IN	VESTAGATE 241
BEEHIVE INTAKE IN WEST DITCH	OF AA AVE 65	S'L NORTH OF COMWY
DZS WHILE PERRY GRADES BOT	TOM OF DITCH	TO BEEHIVE INTAKE
WITH SKIPLOADER.		
11:19 A.M. PILTURE #3742 & PICTU	RE# 3743 SEE	PICTURE FOR DETAILS.
11:33 A.M. PICTURE # 3744, 11 37 A.M. PICHUR SEE PICTURE FOR DETAILS.	E # 3745 & 11143 A	M. PUTURE # 3746
I Certify that the work described in this report was incorporated	into this contract unless of	herwise noted.
	Date Prepared:	06/15/2020
Reviewed by:	 Engineer	- spiniara
		Date Reviewed
		which the stick

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	N ENGINEERING ION REPORT	DATE:	06/15/2020			
P	HARDIN OD WO # 281	DAYS OF WEEK:	SATWTFS			
COUNTY, ROUTE, ROAD:	8778-1/00#118-232 WEST DITCH OF AA AUG	AUDELING.	Z OF Y			
LOCATION: SE 1/4 SW1/4	656' + 2 1312' + NORTH OF C 32-89-22 HARDIN	onuy D-25 Su	NNY MID 60'S TO MID 80'S			
REPAIR BLOWOUT /	PLUG ON BRANCH 2B		& BREETIN			
DESCRIPTION OF WORK A NAME, ITEM NO. AND LOC	ND MATERIAL USED FOR E	ACH OPERATION. INCL	JDING CONTRACTOR/SUB			
······································	TAKE 1312'S NO	ERRY WHS DONE	E GRADING DITCH			
CREW.		Carrie Corne	NOW WITH OTHER			
11:40 A.M. PE	RRY LEFT SIT	E TO GET S	OME SUPPLIES,			
-11:43 A.M. PIC	TURE # 3746 SE	E PICTURE FOR D	ETAILS			
12:11 Pim PILT	URE # 3747 SEE	PICTURE FORD	ETTALL S			
12115 P.M AFT	ER TALKING TO L	EE, DECIDED	TD INSTALL			
8"HDAE	TILE WITH HOP	E TEF FOR 6"	SPIRAL CMP			
TILE	TO THE INTO,					
	M ASKED OBSERVE	RIE CREW COM	LA JUST LALATEL			
8" HOPE	TEE & HICKEN BOTT	OM INTAKE ON L	END OF R"(MD			
B" HOPE TEE & HICKEN BOTTOM INTAKE ON END OF B"CMP SPIRAL AND USE JUST SAME 6" TOB" CAP SPIRAL CONNECTION						
WITH CO	WITH CONCRETE COLLAR POURED AROUND IT. LEESAID THAT					
WOULD	WORK ,					
12:18 P.M. PICTURE	# 3748, 12:32 P.M. 1	COURCE # 3749 PICTU	RE# 3750 8. PUTURE			
12:18 P.M. PICTURE # 374B, 12:32 P.M. PICTURE # 3749, PICTURE # 3750, & PICTURE #3751 SEE PICTURE FOR DETAILS.						
12: SOP, M. CREW STOPPED FORLYWLLT. OBSERVER HEADED TO CHECK						
ON Z SA	ON 2 SMALL BLOWDUTS EAST OF 3575 CONWY DZS DRIVE					
& SOUTH SIDE OF COHWLOZE ONLY THING, DESERVER						
Could	FIND WAS HOLES F	ROM ANIMA! DIGA	WIG (SOIL PLO E and FRANT)			
1:12 P.M. PICTURE	# 3752 & PICTURE#	3753 SEE PICTUR	E FOR DETIGUE OF NOLS)			
LOULD FIND WAS HOLES FROM ANIMAL DIGGING (SOIL PILE IN FRONT) 1:12 P.M. PICTURE# 3752 & PICTURE# 3753 SEE PICTURE FOR DETAILS OF NOLE 1:40 P.M PERRY BASK ON SITE WITH BASS OF CONCRETE						
CREW ALSO ONSITE AND WILL CHECK ON SMALL HOLE EAST						
OF DRIVE. CREW EXCALATE HOLE DOWN AND THINK						
THEY ARE ANIMAL HOLES TOO COITCH HAS NUMEROUS OTHER						
AWIMAL HOLES TOD.						
2:40 P.M. ADAM CALLED GEHRKES WHO HAVE AN 8" HICKENBOTTOM						
I Certify that the work described	t in this report was incorporated	into this contract unless oth-	erwise noted.			
Observe and Changestory		Jate Prepared:	06/15/2020			
Reviewed by:	- Cong	Engineer	1			
		served the state of the served	Date Pavienest			
		······································	Date Reviewed			

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	RUCTION ENGINEERING SERVATION REPORT	DATE:	06/15/2020
PROJECT NUMB		DAYS OF WEEK:	SMTWTFS
	_8778.1/0D#118.	-232 SHEET NO.	-
COUNTY, ROUTI	656'+ 0 1212'+ An Am	F AUR	<u> </u>
LOCATION SE		50	INNE MID 605 TO MID 80'S
REPAIR BLO	WONT / PLUG ON BRANCH 2		
DESCRIPTION OF NAME. ITEM NO.	WORK AND MATERIAL USED I	FOR EACH OPERATION, INC	LUDING CONTRACTOR/SUB
	INTHICE	ON HAND, PERRI	LEFTSHE TO
CET 8"	HICKENBOTTO M. INTAK	E & MORE PROC	S DE CONCRETE
- CETIM	PICTURE # 3754 SEC	EPHETURE FOR BET	Tau C
issrim,	PERRY BACK OW SIT	E WITH & HICKENG	STIDM & MORE
pric	SOF CONCRETE, G	SEMAKES DID NOT H	AUE GH THE AND
BRO	UGHT BACK B" HOPE	SW PERFTILE DI	SCED HER THE
ORE	W THAT IT SHOULD !	A DW HAPS TILE	CORT A MARCINCO
TO	ENCASE IT IN CON	VCRRETT ALANCE	CASH WILL MAVE
TO	8" SPIRAL CMP TIE	-Lal	HIT & SPIRALCAP
4:52 PM P	WILLE BERT TICS D. HICS	Par Augura Hand	
5:15 P.M.	CREW STARTER 4:53	F.M. PACTURE # 375	6 SEE PICTURE FOR DETAILOS
Cal	CREW STARTED M	AXING UP CONC	RETE FOR
5:16:0 40	LAR & EWCASEME	sur.	
5:40 0 1	PICTURE # 3757 8.	PICTURE # 3758 5	EE PILTURE FOR DETAILS,
CITE P IN	PICTURE # 3759 2 5:	41 P.M. PICTURE # 376	I SEE PICTURE FOR DETAILS,
GISS FIM.	CREW RAN OUT O	F CONCRETE WI	1/2E POURUNG
	hadde		
6:SCP.M	PILTURE # 3763 SE	E PICTURE FOR	DETAILS
GISO FIM.	OBSERVER AND C	REW LEFTSITE	
QUANTITI	es		
PERRY	5% HRS	KOLBELCO SK 855	MINI EXCAVATOR BLARS
APAM	81/2 HRS		ED SKIDLOADER States
CARSON	81/2 HRS	GENERATOR & CON	KER I 14 HRS
		mi	KER THE THE
3PT HICK	ENBOTTOM TOP WITH	"HOLES TILE T	Thes
	SW HOPE PERFTILE		
	ENGINEERING FABRIC	2- 8" HOPE INTERNAL : 1.0'X20' 1.5X2.5 6"X6"	
	BASS OF ALL STAR CONCR		SQUARE WIRE MESH
		STRANCTL	OF QUIKRETE HIGH CONCRETE
I Certify that the work	described in this report was incorpo	prated into this contract unless of	herwise noted
Observer's Signature	Dear Penning	Date Prepared	06/15/2020
Reviewed by:	Venny		05/15/2020
		Engineer	
			Date Reviewed

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PILTURE # 3736 IS LOOKING SOUTH AT 24" BEEHIVE INTAKE IN WEST DITCH OF AA AVE 656 ' NORTH OF CO HWY DZS SHOWING BEEHIVE WAS COMPLETELY COVERED WITH CORN STALKS WITH SINKHOLES ON MORTH SIDE OF BEEHIVE INTAKE,



PICTURE # 3737 IS LOOKING SOUTH AT 15" BEEHINE INTAKE IN WEST DITCH OF AA AVE 1312' NORTH OF CO HWY D25 WITH BLOWOOT ON WEST'S IDE AT OME TIME AND NOT DRAINING PRAPORI. 11

06/15/2020

PICTURE # 3738 LOOKING SOUTH AT IS" BEEHIVE INTAKE IN WEST DITCH OF ANAVE 1312 NORTH OF CONWYD 25 COMPLETELY FULL OF SOIL WITH CREW REMOVING SOIL FROM INSIDE INTAKE





PILTURE# 3739 IS LOOKING SE INSIDE IS" BEEHIVE INTARE AFTER SOIL REMOVED SHOWING 1" × 3" HOLE IN 8" CONCRETE TILE RUNNING THROUGH BEEHIVETO DRAIN WATER. PICTURE # 3740 IS LOOKING SE AT TOP VIEW OF IS" BEEHIVE INTAKE SHOWING SMALL HOLE IN TILE TO DRAIN WATER THROUGH IN INTAKE.



SHOWING AS" OPENING IN 8" CONCRETE TILE TO DRAIN



PICTURE # 3743 IS LOOKING NE INSIDE 24" BEEHIVE INTAKE SHOWING A POOR CONNECTION BETWEEN B" CLAY TILE IN WALL OF BEEHIVE AND 8" SPIRAL CAP OUTLET, APPEARS SOIL HAS BEEN FLOWING THOMAN THOMAN

PICTURE #3744 15 LOOKING SE SHOWING 6"SPIRAL UMP TILE FROMFIELD TIED INTO 8" SPIRAL CMP OUT LET TILE FOR BEEHIVE INTAKE





PICTURE # 3745 IS LOOKING SE SHOWING GAP WHERE 6"SPIRAL CMP.90° OUTLET TIES INTO 8" SPIRAL CMP OUTLET TILE FROM BEEHIVE INTAKE WHERE CONCRETE COLLAR BROKE DUT. PICTURE # 3746 is LOOKING NE INSIDE 8" CLAY TILE INSIDE BEEHINE INTAKE WALL, SHOWING 8" CAP SPIRAL CMP SANK DOWN @ CONNECTION WITH CLAY TILE PIECES ON TOP. SOIL & LORN STALKS VISIBLE @ CONNECTION.



IN



PICTURE # 3747 1'S LOOKING SE SHOWING THAT G" CMP SPIRAL TILE WILL NOT ALLOW 8" CMP SPIRAL TILE TO BE LIFTED BACK UP TO FIT 8" CLAY TILE OUTLET IN BEEHING WALL GETURE # 3748 SHOWING ZY" BEEHIVE INTAKE REMOVED 656' MORTH OF COHWY DES ON WESTSIDE OF AN AVE.



PICTURE # 3749 IS LOOKING SW AT 6" CMP SPIRAL FROM FIELD THEO INTO S" CMP SPIRAL FROM BEEHIVE INTAKE AFTER BEBHING INTAKE HAS BEEN REMOVED
PICTURE # 3750 IS LOOKING SE SHOWING G"SPIRAL CMP TIED INTO 8" CMP SPIRAL FROM BEE HIVE INTAKE WITH BAND ON 6" CMP SPIRAL TO 6" CMP SPIRAL 90° ELBOW CONNECTION



PICTURE #375/ IS LOOKING NE SHOWING 8" SPURAL CMP AFTER BEEHING INTARE REMOVED



PILTURE#3753 IS LOOKING WEST AT HOLES IN RELATION TO DRIVEWAY PICTURE # 3754 IS LOOKING NORTH AT 1312'S NORTHOF LOHWY DIS IN WEST DITCH OF AAAVE SHOWING DITCH GRADED TO 15" BEEHINE INTAKE



PICTURE # 3755 IS LOOKING SE SHOWING 8"HOPE INTERNAL COUPLER INSIDE 8"CMP SPIRAL STILE TAPED TO B"CMP SPIRAL PICTURE #3756 IS LOOKING SE SHOWING 4:52,5 OF 8" SW HOPE PERF-TILE INSTALL ON 8"HOPE INTERNAL SNAP COUPLER (TILE TAPED) WITH 30" ORANGE HICKEN BOTTOM ON FOP WITH 8" INTERNAL SNAPS COUPLER WITH JOINT TILE TAPED



N

CPS# 1207 TOP8" CMPSPIRAL



PICTURE # 3757 IS LOOKING SW SHOWING HICKEN BOTTOM BRACED UP. BOTTOM OF TRENCH HAD GOOD CLAY BOTTOM, CREW PEACED A QUICKRETE BAG DRY UNDTER TILE FIRST.



PICTURE # 3759 IS LOOKING SW SHOWING 6" 90° CMP SPIRAL THE IN INTO 8" CARPSPIRAL WRAPPED WITH FABRIC & TILE TAPED BEFORE CONCRETE COLLAR POURED, PICTURE # 3761 IS LOORINGSW SHOWING 1.5 × 2.5 6"x6" MRE MEGHAROUND CONNECTION BEFORE CONCRETE POURED



PICTURE # 3762 IS LOOKING SOUTH SHOWING 1.0" × 2.0" 6"×6" WIRE MESH AROUND 6" TO 8" COMP SPIRAL CONVECTION AFFADE CONCRETE POWRED. PILTURE#3763 IS LOOKING SW SHOWING PARTIAL CONCRETE COLLARS POURED, CREW RAN OUT OF CONCRETE AND WILL FINISH TOMORROW,



CONSTRUCTION IN THE CONSTRUCT		
CONSTRUCTION ENGINEERING OBSERVATION REPORT	DATE:	06/15/2020
PROJECT NUMBER: HARDIN OD WO # 2		SMOWTFS
COUNTY, ROUTE, ROAD: WEST DITCH OF A	A AUS SHEEL NO.	.1 OF Z
LOCATION: 58 14 5014 32-89-22 HARDIN	V D-25 S	UNNE LOW 60'S TO MIDE
REPAIR BLOWOUT / PLUG ON BRANCH 3	z.ß	2 BREEZY
DESCRIPTION OF WORK AND MATERIAL USED NAME. ITEM NO. AND LOCATION 7: 30 A.	FOR EACH OPERATION, INC. M. CACLED ADAM	
TO FIGURE OUT WHAT OTHER	ter ter	# * ·
7:40 A.M. OBSERVER LEFT O	CFILE FOR JOBSI	F.
7: 50 A.M. ADAM CALLED BAC	K THAT CREW MU	WURP ON TOOMS
DO 158 WOH 285 & JOP # 63	756.7 000000000000000000000000000000000000	Y WORL ON SOBYE
7:55AM DECENSE LISHUT AAL	Seit Buckeye /0011	WOH 294 TODAY.
7:55 A.M. OBSERVER HEADED BAL	TO OFFICE TO FIL	ND FILES AND
UPLOAD JOB.		
8:30 AM OBSERVER HAD FIL	ES FOUND AND UPL	ADED TO DATA COUNC
AND HEADED TO REPAH	R LOCATION.	WAR HAVE D
9:05 A.M. OBSERVER ARRIVE		
SINCE BIRDA IN	CONSITE WITH .	CREW ON'SITE
SINCE BIBOAIM. CA	rew was borkine	ON FINISHING
CONCASTS (OLIAN A-		
CONCRETE COLLAR AROL	4ND 8" SWHOPE PER	RETILE BASES
AROUND 6" 90° CMP SPIL	AND 8" SWHOPE PER	RETILE BASES
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EXISTING. BEENIVE REP	AIR @ 656'SNORTH OF	CMP SPIRAL TO FINIS
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Users Ryken Standard Forms and Procedures Company Forms Construction Engineering Observation Report (1)

CONSTRUCTION ENGINEERING DATE 06/15/2020 **OBSERVATION REPORT** DAYS OF WEEK HARDIN OD WO # 281 SMOWTES PROJECT NUMBER 8778.1/OD#118-232 SHEET NO. 2 COUNTY, ROUTE, ROAD 0F WEST DITCH OF AA AUS 656' + 8.1312' + NORTH OF COHWY D-25 LOCATION SE 14 SW14 32-89-22 HARDIN SUNNY LOW 60'STO MID 80'S REPAIR BLOWOUT / PLUG ON BRANKH 2B & BREEZ DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CON TRACTOR/SUB NAME: ITEM NO. AND LOCATION 11:05 A.M. PICTURE # 3771 & PICTURE # 3772 SEE PICTURE FOR DETAILS; 04/16/2020 PICTURE # 1 SEE PICTURE FOR DETHILS, 11:15 A.M. OBSERVER AND CREW LEFT SITE. QUANTITIES 23/4 HOURS ADAM Z3/4 HOURS CARSON PERRY 2.3/4 HOURS GEWERATOR & MIKER 1 HOUR 23/4 HOURS KOLBELCO SK85CS MINI EXCAUATOR CASE TR340 TRACKED SKIDLOADER, 23/4 HOURS SQUCRETE INC. TICKET # 43604 OVER SIZE ROCK 6,4 TONS (HARDIN AGE A42512) 10 - 6018 BAGS OF QUIKRETE HIGH STRENGTH CONCRETE MIX ADDITIONAL ACTIONS D SEED GRADED ARE AS IN DITCH (WESTSIDE AAAVE) COUNTY NEEDS TO GRADE MORE OF DITCH AROUND BOTH INTAKES COUNTY NEEDS TO GRADE DITCH TO 36" RGP. INLET ON EAST SIDE OF AA AVE. (SOIL HIGHER THAN FL OF 36"RCP) I Certify that the work described in this report was incorporated into this contract unless otherwise noted Observer's Signature Dear Penn Date Prepared 06/16/2020 Reviewedby Engineer Date Reviewed Service Standard Forms, and Provedures Company Forms Construction Engineering Observation Report (1)

PICTURE # 3766 IS LOOKING SW SHOWING CONCRETE COLLAR FINISHED AROUND 6" 90° CAPSPIRAL ELBOW TO 8" CMP. SPIRAL TO 8" HOPE SW PERF TILE.





PICTURE # 3767 IS LOOKING NE SHOWING OLD CONCRETE CHUNKS CONCRETED IN TO SUPPORT 8"SWHOPE PERFTILE FOR B" HICKEN BOTTOM INTAKE.

PIOURE # 3769 IS LOOKING WE SHOWING CREWTRIMING DOWN 8" SWHOPE PERF TILE SD 3:0' HICKEN BOTTOM TOP SITS A LITTLE LOWER. PILTURE SHOWS CREW GRADING TO 8"HICKENBOTTOM.



NUPLACE WITH , OVERSIZED ROCK AROUND 8"HICKENBOTTOM,

. PICTURE# 377(IS LOOKING SOUTH AT DITCH GRADED TO NEW 8" HICKBW BOTTOM WTAKE.



PILTURE #3772 IS LOOKING NORTH SHOWING ONTEH GRADED TO NEW 8" HICKEN BOTTOM INTAKE & SHOWS DITCH GRADED FROM 36" R.P. TO NOW 8" HICKENBOTTEM

DR. . . . ALORESS. DELIVERED RAINK Pill ADDRESS NOS NOCK SURFACING 26480 15 A42512 HARDIN AGG OTHER Adam NET 8 CONCRETE, INC. 43604 Deward CHOR CASH MONTH DAY 08861 1 TOTAL SALES TAX. 10-4 HALLING 28295 4TH AVE GIFFORD, IA 50259 PHONE 641-858-5637 6 16 20 AMOUNT

PICTURE #1 ROCK USED TO BACK FILL AROUND NEW 8" HICKEN BOTTOM ENTAKE,

06/16/2020

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8778 DD#118-232 1,3650568.780,4921455.020,1147.670,GPS MON 8002 2,3666234.650,4921419.660,1152.600,gps mon 8001 3,3650524.146,4928946.578,1133.880,4+00 hubnsidedd 4,3650415.452,4934362.265,1136.303,top rcp 5,3655746.813,4929952.888,1138.657,irs 5/8 6,3657916.115,4932022.492,1141.982,DIVIT NW ABUT 7,3657106.553,4930416.401,1139.154,CP 3/4IR 8,3657097.498,4930364.985,1128.290,CL 378+75 9,3657101.981,4930357.157,1128.498,TOE 10,3657094.457,4930371.142,1128.181,TOE 11,3657033.587,4930325.569,1128.299,CL 378+00 12,3657037.746,4930317.450,1128.295,TOE 13,3657030.660,4930334.887,1128.649,TOE 14,3656939.319,4930292.019,1127.931,CL 377+00 15,3656941.669,4930286.807,1128.744,TOE 16,3656944.854,4930277.833,1130.834,TOE 17,3656936.430,4930297.778,1128.017,TOE 18,3656846.843,4930253.786,1128.196,CL 376+00 19,3656843.606,4930260.820,1128.171,TOE 20,3656850.260,4930247.300,1128.095,TOE 21,3656756.838,4930210.162,1128.150,CL 375+00 22,3656759.687,4930202.950,1128.433,TOE 23,3656753.859,4930217.409,1128.146,TOE 24,3656664.170,4930172.700,1128.075,CL 374+00 25,3656661.248,4930179.975,1127.665,TOE 26,3656669.985,4930165.005,1128.411,TOE 27,3656569.590,4930139.830,1127.977,CL 373+00 28,3656566.330,4930146.985,1127.855,TOE 29,3656571.104,4930135.128,1127.808,TOE 30,3656571.471,4930134.081,1129.187,TB 31,3656573.247,4930127.254,1129.744,TOE 32,3656477.052,4930101.777,1128.073,CL 372+00 33, 3656480.274, 4930092.911, 1127.717, TOE 34,3656472.520,4930110.078,1128.339,TOE 35,3656384.223,4930064.409,1128.041,CL 371+00 36,3656388.574,4930055.099,1128.159,TOE 37,3656381.719,4930072.084,1127.981,TOE 38,3656293.770,4930021.800,1127.994,CL 370+00 39,3656291.101,4930031.065,1128.070,TOE 40,3656298.545,4930012.651,1128.425,TOE 41,3656199.996,4929987.216,1127.831,CL 369+00 42,3656196.715,4929994.849,1127.623,TOE 43,3656202.321,4929981.412,1127.926,TOE 44,3656107.857,4929948.378,1127.815,CL 368+00 45,3656104.933,4929955.565,1127.723,TOE 46,3656110.331,4929940.604,1127.898,TOE 47,3656014.271,4929913.177,1127.605,CL 367+00 48,3656012.043,4929922.044,1127.806,TOE 49,3656015.777,4929907.308,1126.960,TOE

8778 DD#118-232 50,3655916.943,4929890.118,1127.665,CL 366+00 51,3655915.617,4929897.933,1127.495,TOE 52,3655917.996,4929882.680,1127.801,TOE 53,3655867.426,4929883.204,1127.402,CL 365+50 54,3655817.567,4929886.815,1127.419,CL 365+00 55,3655819.349,4929895.235,1127.457,TOE 56,3655815.865,4929880.808,1127.660,TOE 57,3655746.270,4929910.253,1127.163,CL 364+25 58,3655748.866,4929916.679,1127.203,TOE 59,3655745.331,4929902.743,1127.709,TOE 60,3655627.704,4929950.009,1127.275,CL 363+00 61,3655629.774,4929957.538,1127.587,TOE 62,3655625.118,4929942.441,1127.852,TOE 63,3655531.974,4929979.059,1127.892,CL 362+00 64,3655534.567,4929989.155,1127.912,TOE 65,3655528.123,4929968.916,1127.927,TOE 66,3655517.074,4929947.112,1140.830,TB 67,3655509.476,4929929.969,1139.165,GS 68,3655491.200,4929893.663,1139.330,GS 69,3655602.794,4929828.300,1140.171,GS 70,3655620.355,4929871.956,1139.080,GS 71,3655622.462,4929899.680,1138.482,GS 72,3655625.810,4929916.191,1138.540,GS 73,3655698.998,4929902.910,1142.208,BRDG 74,3655699.452,4929953.741,1142.129,BRDG 75,3655726.834,4929943.425,1142.120,BRDG 76,3655726.335,4929892.560,1142.164,BRDG 77,3655737.863,4929869.191,1136.927,GS 78,3655740.829,4929894.182,1135.501,TB 79,3655817.956,4929864.196,1138.716,GS 80,3655811.393,4929818.000,1139.861,GS 81,3655912.662,4929797.576,1138.809,GS 82,3655918.841,4929836.530,1138.211,GS 83,3655919.497,4929860.779,1137.703,TB 84,3656018.213,4929886.654,1138.300,TB 85,3656030.991,4929844.837,1137.940,GS 86,3655661.853,4929980.017,1139.108,CP 5/8IR 87,3655625.618,4929976.216,1138.653,TB 88,3655637.576,4930022.059,1137.922,GS 89,3655535.599,4930067.215,1137.342,GS 90,3655528.871,4930007.355,1138.256,TB 91,3655436.868,4930010.641,1127.227,CL 361+00 92,3655434.817,4930003.789,1127.688,TOE 93,3655439.111,4930017.275,1127.411,TOE 94,3655340.834,4930039.155,1127.208,CL 360+00 95,3655337.726,4930031.789,1127.395,TOE 96,3655341.896,4930045.770,1127.647,TOE 97,3655246.893,4930073.473,1127.645,CL 359+00 98,3655243.161,4930063.964,1128.596,TOE

8778 DD#118-232 99,3655251.382,4930084.583,1127.763,TOE 100,3658401.764,4921413.760,1148.100,temp pt 101,3666236.295,4921419.743,1152.624,cp#2-gps 8001 102,3650568.863,4921454.961,1147.646,cp#1-gps 8002 103,3651878.872,4921556.532,1148.209,cp 103 58 ir 104,3651556.430,4926740.156,1162.604,cp 104 58 ir 105,3653116.628,4934644.558,1147.215,cp 105 58 ir 106,3650516.980,4937347.906,1154.498,cp106hcgpsmn8018 107,3655809.970,4921459.329,1144.464,cp 107 58 ir 108,3655814.742,4921345.515,1140.875,cp 108 magtopcmp 109,3658452.073,4921412.790,1147.006,cp 109 58 ir 110,3661050.677,4921317.254,1145.087,cp110magtp24"rcp 111,3655155.829,4930114.763,1128.689,CL 358+00 112,3655152.549,4930104.067,1127.430,TOE 113,3655164.232,4930128.221,1128.287,TOE 114,3655075.577,4930174.467,1127.612,CL 357+00 115,3655070.796,4930169.352,1127.419,TOE 116,3655080.222,4930179.910,1127.609,TOE 117,3654997.408,4930236.877,1127.651,CL 356+00 118,3654992.087,4930229.699,1127.131,TOE 119,3655004.970,4930244.773,1128.344,TOE 120,3654922.289,4930302.908,1127.368,CL 355+00 121,3654915.649,4930294.446,1127.636,TOE 122,3654927.311,4930311.426,1128.187,TOE 123,3654836.932,4930355.060,1126.830,CL 354+00 124,3654831.764,4930346.175,1127.296,TOE 125,3654842.889,4930364.674,1127.735.TOE 126,3654749.453,4930403.674,1127.552,CL 353+00 127,3654745.182,4930395.161,1127.401,TOE 128,3654754.540,4930409.988,1127.508,TOE 129,3654655.299,4930437.412,1127.230,CL 352+00 130,3654651.992,4930422.884,1128.705,TOE 131,3654660.154,4930450.483,1127.514,TOE 132,3654555.664,4930446.710,1127.186,CL 351+00 133,3654555.851,4930437.426,1126.898,TOE 134,3654558.527,4930457.820,1127.810,TOE 135,3654455.682,4930450.069,1127.111,CL 350+00 136,3654454.801,4930437.826,1128.158,TOE 137,3654455.144,4930460.340,1127.023,TOE 138,3654355.608,4930450.595,1127.531,CL 349+00 139,3654355.060,4930442.287,1126.719,TOE 140,3654356.568,4930467.565,1128.083,TOE 141,3654255.776,4930456.818,1127.121,CL 348+00 142,3654254.881,4930446.262,1127.030,TOE 143,3654255.026,4930466.659,1126.485,TOE 144,3654155.747,4930455.704,1127.321,CL 347+00 145,3654155.546,4930445.089,1127.082,TOE 146,3654155.652,4930466.593,1127.535,TOE 147,3654055.920,4930461.274,1127.015,CL 346+00

8778 DD#118-232 148,3654055.410,4930450.086,1126.897,TOE 149,3654056.398,4930469.888,1127.083,TOE 150,3653955.908,4930463.402,1126.410,CL 345+00 151,3653955.325,4930454.400,1126.084,TOE 152,3653956.810,4930472.600,1126.816,TOE 153,3653856.155,4930470.051,1126.810,CL 344+00 154,3653855.340,4930459.303,1127.080,TOE 155,3653855.071,4930480.568,1126.347,TOE 156,3653756.381,4930463.353,1126.715,CL 343+00 157,3653755.291,4930452.053,1126.834,TOE 158,3653755.923,4930473.929,1126.441,TOE 159,3653656.728,4930471.806,1126.944,CL 342+00 160,3653655.461,4930455.204,1128.149,TOE 161,3653656.317,4930482.660,1126.596,TOE 162,3653556.887,4930477.436,1127.052,CL 341+00 163,3653556.923,4930462.001,1127.140,TOE 164,3653557.917,4930490.206,1126.810,TOE 165,3653456.918,4930481.146,1126.575,CL 340+00 166,3653455.332,4930468.944,1126.960,TOE 167,3653456.593,4930493.683,1126.747,TOE 168,3653356.964,4930477.818,1126.644,CL 339+00 169,3653357.154,4930465.164,1126.636,TOE 170,3653357.980,4930489.356,1126.449,TOE 171,3653357.915,4930489.641,1126.547,TOE 172,3653356.997,4930465.246,1126.542,TOE 173,3653257.067,4930482.457,1126.423,CL 338+00 174,3653256.467,4930471.164,1126.351,TOE 175,3653258.827,4930494.840,1126.863,TOE 176,3653157.107,4930486.666,1126.452,CL 337+00 177,3653156.851,4930474.210,1126.638,TOE 178,3653157.914,4930497.398,1126.423,TOE 179,3653057.094,4930486.709,1126.497,CL 336+00 180,3653057.663,4930476.222,1126.269,TOE 181,3653058.032,4930498.988,1126.396,TOE 182,3652957.061,4930489.060,1126.109,CL 335+00 183,3652957.279,4930478.301,1126.577,TOE 184,3652955.820,4930498.854,1126.163,TOE 185,3652907.357,4930483.445,1126.123,CL 334+50 186,3652860.811,4930465.139,1126.130,CL 334+00 187,3652864.820,4930455.915,1125.969,TOE 188,3652856.381,4930473.044,1125.918,TOE 189,3652816.812,4930441.293,1126.077,CL 333+50 190,3652776.262,4930412.032,1125.958,CL 333+00 191,3652782.574,4930403.793,1125.905,TOE 192,3652770.346,4930418.382,1126.077,TOE 193,3652701.374,4930345.772,1126.045,CL 332+00 194,3652709.357,4930338.347,1125.829,TOE 195,3652693.248,4930352.056,1125.953,TOE 196,3652638.553,4930267.910,1125.859,CL 331+00

197,3652647.378,4930260.602,1125.800,TOE 198,3652629.690,4930272.020,1125.505,TOE 199,3652613.123,4930281.282,1137.814,TB 200,3652584.552,4930308.347,1134.925,GS 201,3652651.841,4930395.980,1134.693,GS 202,3652687.187,4930368.424,1137.820,TB 203,3652758.788,4930430.216,1138.005,TB 204,3652730.102,4930469.387,1134.504,GS 205,3652816.058,4930534.486,1134.601,GS 206,3652846.945,4930484.320,1137.794,TB 207,3652956.915,4930514.606,1138.883,TB 208,3652953.533,4930567.540,1134.517,GS 209,3653059.542,4930577.216,1135.266,GS 210,3653060.241,4930518.566,1140.037,TB 211,3653157.978,4930516.657,1140.066,TB 212,3653159.981,4930569.322,1135.309,GS 213,3653266.519,4930572.084,1135.316,GS 214,3653259.375,4930512.705,1139.064,TB 215,3653356.956,4930507.697,1136.919,TB 216,3653361.041,4930561.917,1134.961,GS 217,3653461.212,4930557.703,1135.558,GS 218,3653458.470,4930506.813,1138.382,TB 219,3653556.545,4930506.454,1139.150,TB 220,3653558.749,4930546.020,1137.320,GS 221,3653656.054,4930548.093,1139.226,GS 222,3653659.336,4930501.073,1140.879,TB 223,3653752.670,4930501.681,1142.869,TB 224,3653757.454,4930548.261,1140.244,GS 225,3653856.004,4930548.418,1139.065,GS 226,3653855.951,4930500.199,1142.105,TB 227,3653956.506,4930502.254,1140.130,TB WASHOUT 228,3653959.852,4930530.785,1138.563,GS 229,3653961.798,4930560.378,1138.782,GS 230,3654066.838,4930548.090,1139.250,GS 231,3654059.679,4930493.004,1141.086,TB 232,3654155.618,4930491.407,1142.520,TB 233,3654158.859,4930537.559,1140.368,GS 234,3654255.496,4930547.159,1141.157,GS 235,3654257.179,4930509.551,1140.719,GS 236,3654258.435,4930488.633,1143.245,TB 237,3654355.790,4930485.317,1136.530,TB 238,3654356.324,4930512.995,1135.646,GS 239,3654359.226,4930544.290,1136.305,GS 240,3654386.132,4930502.934,1134.633,GS WASHOUT 241,3654454.152,4930543.950,1135.010,GS 242,3654454.788,4930480.117,1139.330,TB 243,3654556.458,4930476.613,1140.319,TB 244,3654560.541,4930534.813,1136.370,GS 245,3654667.296,4930526.652,1136.530,GS

246,3654659.747,4930466.844,1139.346,TB 247,3654757.020,4930430.747,1141.052,TB 248,3654789.687,4930488.155,1136.257,GS 249,3654872.157,4930439.494,1135.705,GS 250,3654844.845,4930386.899,1140.610,TB 251,3654933.122,4930326.727,1139.218,TB 252,3654963.274,4930362.099,1136.112,GS 253,3655040.787,4930297.364,1136.589,GS 254,3655014.176,4930264.359,1139.023,TB 255,3655093.948,4930201.675,1139.634,TB 256,3655126.620,4930237.033,1137.023,GS 257,3655206.688,4930189.696,1136.904,GS 258,3655174.638,4930139.937,1138.741,TB 259,3655259.207,4930103.102,1139.219,TB 260,3655281.852,4930144.528,1137.446,GS 261,3655378.724,4930110.320,1137.112,GS 262,3655356.926,4930065.553,1138.628,TB 263,3655449.749,4930033.394,1138.683,TB 264,3655462.997,4930070.651,1136.887,GS 265,3655748.382,4929977.041,1139.156,GS 266,3655745.636,4929938.776,1137.515,TB 267,3655826.021,4929929.768,1139.742,TB 268,3655820.179,4929906.586,1133.945,TB 269,3655822.888,4929916.114,1134.790,TOE 270,3655829.753,4929958.825,1139.256,GS 271,3655927.139,4929976.335,1139.264,GS 272,3655920.527,4929925.628,1140.696,TB 273,3656008.709,4929941.970,1139.325,TB 274,3655998.407,4929983.409,1138.441,GS 275,3656081.956,4930019.223,1138.910,GS 276,3656097.944,4929978.431,1138.886,TB 277,3656184.801,4930016.212,1140.568,TB 278,3656169.624,4930051.797,1139.998,GS 279,3656252.225,4930090.797,1141.770,GS 280,3656267.088,4930053.851,1141.631,TB 281,3656356.375,4930090.015,1140.615,TB 282,3656348.933,4930111.286,1140.815,GS 283,3656339.951,4930143.617,1142.146,GS 284,3656438.427,4930190.843,1140.569,GS 285,3656454.924,4930168.319,1139.233,GS 286,3656469.581,4930136.722,1140.531,TB 287,3656543.636,4930187.601,1136.908,GS WASHOUT 288,3656551.960,4930167.894,1138.192,TB 289,3656536.906,4930230.138,1138.830,GS 290,3656634.816,4930258.606,1138.512,GS 291,3656642.933,4930235.945,1137.851,GS 292,3656650.462,4930205.125,1138.629,TB 293,3656736.288,4930241.091,1139.283,TB 294,3656719.659,4930276.125,1138.360,GS

8778 DD#118-232 295,3656808.786,4930319.821,1139.148,GS 296,3656826.881,4930277.648,1140.189,TB 297,3656921.852,4930320.629,1139.483,TB 298,3656910.861,4930357.696,1139.257,GS 299,3656992.889,4930408.164,1139.753.GS 300,3657021.869,4930356.851,1139.868,TB 301,3657077.320,4930395.883,1141.013,TB 302,3657058.543,4930423.093,1139.664,GS 303,3657121.635,4930371.567,1128.371,CL 379+00 304,3657123.547,4930366.036,1128.488,TOE 305,3657122.359,4930378.585,1128.418,TOE 306,3657121.951,4930380.991,1129.012,GS 307,3657119.869,4930385.439,1127.029,TOE LAT1 308,3657117.215,4930390.048,1127.099,CL LAT1 309,3657113.593,4930394.684,1127.418,TOE LAT1 310,3657216.614,4930402.934,1128.405,CL 380+00 311,3657218.305,4930397.564,1128.253,TOE 312,3657214.569,4930410.276,1128.675,TOE 313,3657313.664,4930427.105,1128.694,CL 381+00 314,3657314.894,4930419.880,1128.576,TOE 315,3657313.684,4930433.281,1128.608,TOE 316,3657413.472,4930432.138,1128.592,CL 382+00 317,3657413.081,4930425.559,1128.709,TOE 318, 3657413, 911, 4930437, 910, 1128, 415, TOE 319,3657463.363,4930428.559,1128.579,CL 382+50 320,3657511.416,4930414.616,1128.768,CL 383+00 321,3657509.842,4930407.803,1128.516,TOE 322,3657514.781,4930423.184,1128.568,TOE 323,3657558.197,4930396.902,1128.920,CL 383+50 324,3657599.944,4930369.349,1128.932,CL 384+00 325,3657604.707,4930375.397,1128.722,TOE 326,3657596.428,4930363.350,1128.740,TOE 327,3657677.954,4930306.769,1128.919,CL 385+00 328,3657670.714,4930298.682,1129.989,TOE 329,3657684.525,4930313.030,1129.291,TOE 330,3657747.432,4930234.792,1128.821,CL 386+00 331,3657742.959,4930230.301,1128.874,TOE 332,3657752.577,4930238.663,1128.877,TOE 333,3657818.578,4930164.521,1128.844,CL 387+00 334,3657811.855,4930156.927,1129.806,TOE 335,3657816.041,4930161.516,1129.692,GS 336,3657823.641,4930167.742,1128.689,TOE 337,3657886.778,4930091.364,1129.653,CL 388+00 338,3657884.598,4930089.155,1128.907,GS 339,3657881.790,4930086.042,1129.025,TOE 340,3657892.935,4930094.955,1129.452,TOE 341,3657957.769,4930020.869,1128.673,CL 389+00 342,3657961.739,4930025.444,1127.731,TOE 343,3657954.364,4930018.267,1129.644,GS

8778 DD#118-232 344,3657950.150,4930014.025,1130.365,TOE 345,3658028.708,4929950.421,1129.286,CL 390+00 346, 3658023.732, 4929945.559, 1129.254, TOE 347,3658036.215,4929954.473,1128.921,TOE 348,3658099.730,4929880.007,1129.737,CL 391+00 349,3658096.430,4929876.425,1129.812,TOE 350,3658106.865,4929887.725,1129.184,TOE 351,3658167.411,4929806.375,1129.020,CL 392+00 352,3658162.305,4929801.616,1129.200,TOE 353,3658171.711,4929809.630,1130.587,GS 354,3658177.952,4929815.010,1131.141,TOE 355,3658236.862,4929734.407,1129.481,CL 393+00 356, 3658232.345, 4929729.671, 1129.421, TOE 357,3658241.446,4929739.622,1129.536,TOE 358,3658306.709,4929662.818,1129.643,CL 394+00 359,3658301.822,4929658.827,1129.520,TOE 360, 3658312.285, 4929669.520, 1129.761, TOE 361,3658376.941,4929591.615,1129.580,CL 395+00 362, 3658371.334, 4929585.872, 1129.844, TOE 363,3658382.353,4929596.485,1129.524,TOE 364,3658447.217,4929520.410,1129.649,CL 396+00 365,3658440.574,4929513.535,1129.848,TOE 366,3658453.205,4929524.767,1129.449,TOE 367,3658517.249,4929449.008,1129.686,CL 397+00 368, 3658513.283, 4929445.183, 1129.511, TOE 369,3658522.549,4929455.509,1129.195,TOE 370,3658584.971,4929375.420,1129.806,CL 398+00 371,3658579.648,4929370.684,1129.461,TOE 372,3658592.047,4929380.396,1130.065,TOE 373,3658657.131,4929306.177,1129.713,CL 399+00 374,3658652.006,4929300.609,1129.381,TOE 375, 3658661.849, 4929310.384, 1129.542, TOE 376,3658727.102,4929234.702,1130.414,CL 400+00 377, 3658721.403, 4929228.070, 1129.654, TOE 378,3658732.737,4929238.878,1129.043,TOE 379,3658796.200,4929162.380,1129.788,CL 401+00 380,3658790.773,4929158.031,1129.632,TOE 381,3658801.849,4929168.005,1130.252,TOE 382,3658866.440,4929091.195,1129.849,CL 402+00 383,3658861.026,4929085.808,1129.884,TOE 384,3658870.912,4929094.860,1129.840,TOE 385,3658936.645,4929019.983,1129.793,CL 403+00 386,3658932.160,4929015.877,1129.490,TOE 387,3658940.174,4929024.132,1129.965,TOE 388,3659006.742,4928948.634,1129.908,CL 404+00 389,3659002.222,4928944.498,1129.659,TOE 390,3659012.818,4928952.524,1129.736,TOE 391,3659075.364,4928875.822,1129.718,CL 405+00 392,3659070.821,4928871.090,1129.735,TOE

8778 DD#118-232 393,3659079.045,4928879.317,1129.509,TOE 394,3659145.162,4928804.225,1130.035,CL 406+00 395,3659140.056,4928799.297,1129.473,TOE 396,3659150.359,4928808.780,1129.807,TOE 397,3659211.456,4928729.331,1130.073,CL 407+00 398,3659206.707,4928725.173,1129.452,TOE 399,3659216.494,4928732.905,1129.823,TOE 400,3659243.433,4928690.855,1129.536,CL 407+50 401,3659287.294,4928666.761,1129.808,CL 408+00 402,3659284.305,4928660.888,1129.834,TOE 403,3659290.719,4928671.807,1129.478,TOE 404,3659377.668,4928623.755,1130.111,CL 409+00 405,3659375.386,4928617.270,1130.036,TOE 406,3659379.189,4928629.817,1129.535,TOE 407,3659468.625,4928582.198,1129.901,CL 410+00 408,3659466.498,4928576.068,1129.964,TOE 409,3659471.555,4928586.598,1129.866,TOE 410,3659562.394,4928547.421,1130.051,CL 411+00 411,3659560.217,4928542.709,1130.019,TOE 412,3659566.168,4928553.527,1129.857,TOE 413,3659654.148,4928507.525,1130.311,CL 412+00 414,3659651.943,4928501.511,1130.482,TOE 415,3659656.187,4928514.095,1130.022,TOE 416,3659744.559,4928464.762,1130.047,CL 413+00 417,3659741.972,4928459.347,1129.887,TOE 418,3659745.897,4928469.085,1130.029,TOE 419,3659838.205,4928429.621,1130.215,CL 414+00 420,3659835.562,4928423.634,1130.469,TOE 421,3659840.182,4928434.384,1130.073,TOE 422,3659930.604,4928391.322,1130.277,CL 415+00 423,3659928.417,4928386.752,1130.199,TOE 424,3659931.990,4928396.459,1130.441,TOE 425,3660021.505,4928349.588,1130.501,CL 416+00 426,3660018.926,4928341.912,1129.996,TOE 427,3660023.601,4928354.907,1130.675,TOE 428,3660032.684,4928379.556,1142.704,TB 429,3660057.315,4928425.670,1139.165,GS 430,3659967.437,4928465.545,1139.687,GS 431,3659943.121,4928416.945,1142.603,TB 432,3659850.802,4928456.309,1143.056,TB 433,3659876.129,4928507.295,1139.523,GS 434,3659777.046,4928548.804,1139.395,GS 435,3659760.198,4928497.297,1142.859,TB 436,3659671.786,4928533.208,1142.301,TB 437,3659697.451,4928590.507,1139.008,GS 438,3659597.168,4928629.756,1138.582,GS 439,3659575.869,4928571.130,1141.525,TB 440,3659486.594,4928609.851,1140.464,TB 441,3659508.118,4928651.926,1137.645,GS

442,3659417.203,4928694.377,1139.343,GS 443,3659394.777,4928650.917,1142.050,TB 444,3659303.300,4928694.207,1142.437,TB 445,3659332.763,4928730.070,1140.158,GS 446,3659260.760,4928797.528,1140.329,GS 447,3659229.014,4928760.442,1141.365,TB 448,3659163.652,4928829.001,1140.928,TB 449,3659198.965,4928864.814,1140.041,GS 450,3659129.455,4928932.595,1139.400,GS 451,3659094.537,4928900.697,1139.514,TB 452,3659027.426,4928968.216,1140.482,TB 453,3659064.327,4929001.794,1138.999,GS 454,3658991.650,4929069.695,1139.239,GS 455,3658957.556,4929038.381,1141.257,TB 456,3658888.754,4929106.920,1139.551,TB 457, 3658925.968, 4929141.494, 1139.115, GS 458,3658852.240,4929211.973,1139.036,GS 459,3658816.353,4929179.319,1139.500,TB 460,3658747.913,4929249.919,1138.900,TB 461,3658780.118,4929279.219,1139.426,GS 462,3658709.869,4929345.192,1139.403,GS 463,3658678.229,4929321.854,1139.078,TB 464,3658608.025,4929393.146,1138.034,TB 465,3658640.837,4929421.856,1138.494,GS 466,3658645.134,4929408.531,1139.733,FE N S 467,3658574.917,4929487.536,1139.228,GS 468,3658538.815,4929464.251,1139.958,TB 469,3658469.135,4929534.335,1140.005,T8 470,3658504.251,4929567.527,1138.407,GS 471,3658434.718,4929637.108,1138.199,GS 472,3658395.414,4929606.432,1139.218,TB 473,3658328.639,4929676.401,1139.568,TB 474,3658364.317,4929708.506,1137.904,GS 475,3658296.714,4929777.951,1138.311,6S 476,3658261.312,4929749.773,1140.620,TB 477,3658187.676,4929824.959,1140.070,TB 478,3658225.651,4929858.913,1138.352,GS 479,3658159.215,4929929.139,1137.670,GS 480,3658116.721,4929896.376,1139.684,TB 481,3658047.598,4929967.160,1140.350,TB 482,3658090.025,4930001.930,1137.932.GS 483,3658018.223,4930071.894,1137.416,GS 484,3657978.961,4930034.413,1139.918,TB 485,3657908.579,4930107.553,1139.455,TB 486,3657947.261,4930141.687,1137.379,GS 487,3657878.052,4930210.954,1137.666,GS 488,3657839.986,4930177.452,1139.905,TB 489,3657768.157,4930251.203,1139.303,TB 490,3657805.163,4930285.959,1137.002,GS

8778 DD#118-232 491,3657741.818,4930356.682,1136.649,GS 492,3657695.888,4930322.257,1139.317,TB 493,3657619.032,4930386.262,1140.211,TB 494,3657652.576,4930425.934,1136.819,GS 495,3657559.644,4930477.872,1136.650,GS 496,3657526.851,4930431.460,1139.540,TB 497,3657422.486,4930453.128,1139.559,TB 498,3657426.213,4930499.510,1137.198,GS 499,3657330.846,4930501.546,1136.978,GS 500,3657319.137,4930449.197,1139.164,TB 501,3657215.437,4930425.210,1138.167,TB 502,3657209.530,4930440.762,1139.054,GS 503,3657207.123,4930452.281,1137.848,TB LAT1 504,3657174.618,4930408.117,1136.587,TB 505,3657149.478,4930398.417,1135.296,TB 506,3657148.680,4930400.835,1135.104,TB LAT1 507,3655421.497,4929981.222,1140.423,TB 508,3655406.911,4929941.480,1138.646,GS 509,3655308.027,4929955.734,1139.168,GS 510,3655328.713,4930011.734,1138.388,TB 511,3655284.043,4930007.547,1138.077,GS WASHOUT 512,3655228.863,4930044.949,1137.370,TB 513,3655199.969,4929997.203,1139.962,GS 514,3655102.124,4930040.505,1140.242,GS 515,3655141.498,4930087.854,1138.903,TB 516,3655070.932,4930151.763,1137.004,TB 517,3655061.924,4930138.695,1139.276,GS 518,3655042.978,4930148.204,1138.504,GS WASHOUT 519,3655039.278,4930073.784,1140.443,GS 520,3654959.656,4930131.597,1141.321,GS 521,3654988.388,4930206.412,1140.081,TB 522,3654906.397,4930264.949,1142.324,TB 523,3654865.136,4930216.763,1139.540,GS 524,3654771.847,4930275.473,1137.813,GS 525,3654816.821,4930327.446,1139.956,TB 526,3654727.124,4930372.866,1140.705,TB 527,3654697.098,4930316.352,1137.026,GS 528,3654594.967,4930338.615,1136.652,GS 529,3654633.761,4930402.104,1140.101,TB 530,3654545.190,4930414.699,1139.357,TB 531,3654536.975,4930353.098,1136.543,GS 532,3654437.197,4930359.119,1136.275,GS 533,3654451.657,4930418.257,1139.201,TB 534,3654353.424,4930419.390,1139.462,TB 535,3654351.164,4930363.524,1135.853,GS 536,3654249.383,4930370.625,1135.917,GS 537,3654252.521,4930421.379,1140.293,TB 538,3654152.644,4930426.968,1139.364,TB 539,3654144.071,4930365.678,1136.176,GS

8778 DD#118-232 540,3654038.900,4930368.941,1135.907,GS 541,3654052.021,4930429.481,1139.603,TB 542,3653954.168,4930432.204,1139.865,TB 543,3653945.525,4930362.177,1135.479,GS 544,3653851.252,4930364.122,1135.374,GS 545,3653858.496,4930431.505,1139.970,TB 546,3653753.288,4930434.393,1140.561,TB 547,3653746.553,4930374.579,1135.801,GS 548,3653646.576,4930376.640,1134.856,GS 549,3653656.565,4930438.631,1138.805,TB 550,3653559.300,4930436.566,1133.517,GS WASHOUT 551,3653584.878,4930439.083,1138.077,TB 552,3653529.146,4930444.035,1136.015,TB 553,3653537.379,4930382.267,1134.531,GS 554,3653437.639,4930384.717,1134.960,GS 555,3653448.968,4930446.633,1138.396,TB 556,3653356.680,4930446.013,1138.963,TB 557,3653353.012,4930384.162,1135.705,GS 558,3653250.405,4930385.120,1137.942,GS 559,3653260.424,4930448.426,1140.427,TB 560,3653157.862,4930451.218,1141.828,TB 561,3653157.211,4930397.188,1138.939,GS 562,3653051.802,4930393.473,1138.345,GS 563,3653053.083,4930454.460,1141.937,TB 564,3652959.167,4930450.155,1140.985,TB 565,3652960.840,4930389.510,1137.874,GS 566,3652886.850,4930368.502,1136.760,GS 567,3652870.784,4930428.509,1139.383,TB 568,3652804.352,4930387.666,1138.625,TB 569,3652834.812,4930344.017,1136.462,GS 570,3652766.352,4930267.222,1135.867,GS 571,3652720.338,4930310.091,1138.763,TB 572,3652659.760,4930237.659,1138.836,TB 573,3652705.874,4930201.700,1135.372,GS 574,3656124.961,4929921.114,1137.964,TB 575,3656143.604,4929883.153,1137.495,GS 576,3656242.975,4929922.005,1137.803,GS 577,3656221.573,4929959.997,1137.885,TB 578,3656283.015,4929971.885,1137.279,TB WASHOUT 579,3656309.089,4929998.918,1138.129,TB 580,3656328.580,4929958.265,1137.634,GS 581,3656424.119,4929997.781,1137.396,GS 582,3656404.096,4930036.569,1138.594,TB 583,3656494.296,4930075.311,1139.062,TB 584,3656512.169,4930036.995,1137.762,GS 585,3656602.005,4930077.748,1138.044,GS 586,3656584.318,4930115.112,1138.259,T8 587,3656680.347,4930152.706,1137.766,TB 588,3656701.867,4930116.568,1137.442,GS

589,3656789.141,4930152.225,1136.884,GS 590,3656771.430,4930188.492,1138.034,TB 591,3656853.015,4930207.811,1135.801,TB WASHOUT 592,3656860.707,4930227.670,1137.420,TB 593,3656878.327,4930187.398,1136.315,GS 594,3656966.561,4930234.189,1137.423,GS 595,3656952.736,4930265.981,1138.507,TB 596,3657045.374,4930300.084,1138.963,TB 597,3657068.080,4930264.658,1137.392,GS 598,3657162.176,4930298.323,1137.208,GS 599,3657145.754,4930347.395,1138.496,TB 600,3657243.155,4930376.793,1138.823,TB 601,3657260.077,4930324.938,1137.575,GS 602,3657333.935,4930330.793,1137.584,GS 603,3657315.507,4930396.462,1139.860,TB 604,3657407.128,4930397.831,1139.275,TB 605,3657405.864,4930351.004,1138.171,GS 606,3657470.157,4930331.371,1138.152,GS 607,3657461.598,4930391.403,1138.938,TB 608,3657503.278,4930381.392,1139.194,TB 609,3657585.478,4930344.640,1139.115,TB 610,3657550.594,4930306.146,1138.318,GS 611,3657623.445,4930244.199,1138.274,GS 612,3657661.787,4930288.020,1138.322,TB 613,3657728.092,4930215.957,1139.212,TB 614,3657688.162,4930187.741,1138.950,GS 615,3657754.559,4930116.477,1139.851,GS 616,3657795.549,4930142.502,1139.772,TB 617,3657869.585,4930072.426,1140.268,TB 618,3657830.406,4930038.489,1140.366,GS 619,3657899.634,4929962.282,1139.507,GS 620,3657942.804,4929997.267,1140.253,TB 621,3657991.257,4929927.769,1138.171,TB WASHOUT 622,3658019.584,4929922.320,1140.072,TB 623,3657971.551,4929887.441,1139.337,GS 624,3658046.253,4929807.304,1139.945,GS 625,3658084.938,4929854.082,1141.094,TB 626,3658151.759,4929787.630,1138.889,TB 627,3658120.258,4929761.455,1139.299,GS 628,3658177.703,4929682.348,1138.495,GS 629,3658219.844,4929716.829,1139.091,TB 630,3658291.619,4929642.978,1140.071,TB 631,3658262.952,4929620.769,1138.561,GS 632,3658335.851,4929546.064,1138.773,GS 633,3658363.079,4929568.306,1140.087,TB 634,3658424.254,4929500.143,1140.641,TB 635,3658406.577,4929481.546,1138.205,GS 636,3658467.758,4929405.169,1138.125,GS 637,3658499.235,4929429.188,1138.750,TB

638,3658565.443,4929358.915,1138.454,TB 639,3658530.932,4929328.430,1138.097,GS 640,3658591.562,4929252.569,1138.373,GS 641,3658635.842,4929291.209,1139.794,TB 642,3658708.193,4929216.188,1139.904,TB 643,3658672.916,4929186.379,1138.387,GS 644,3658734.322,4929116.119,1138.827,GS 645,3658771.832,4929147.919,1139.804,TB 646,3658844.211,4929071.531,1140.298,TB 647,3658813.940,4929038.565,1138.624,65 648,3658877.961,4928969.262,1138.065,GS 649,3658916.666,4929001.393,1139.971,TB 650,3658983.476,4928932.146,1139.663.TB 651,3658949.813,4928899.066,1138.066,GS 652,3659019.258,4928830.715,1138.226,GS 653,3659055.778,4928856.119,1139.799,TB 654,3659123.008,4928786.361,1139.864,TB 655,3659092.661,4928758.398,1138.580,GS 656,3659156.991,4928689.664,1138.676,GS 657,3659187.033,4928715.042,1140.329,TB 658,3659261.552,4928650.049,1139.856,TB 659,3659245.287,4928616.771,1138.671,GS 660,3659334.077,4928571.294,1139.046,GS 661,3659354.170,4928602.289,1140.572,TB 662,3659447.953,4928564.848,1140.650,TB 663,3659426.429,4928517.139,1138.194,GS 664,3659521.268,4928478.225,1137.889,GS 665,3659542.508,4928526.951,1139.759,TB 666,3659630.175,4928487.079,1140.471,TB 667,3659611.708,4928445.471,1138.173,GS 668,3659691.119,4928403.319,1138.775,GS 669,3659722.975,4928446.722,1141.354,TB 670,3659811.653,4928410.212,1141.319,TB 671,3659793.170,4928365.918,1139.072,GS 672,3659878.390,4928330.663,1139.410,GS 673,3659896.886,4928375.759,1141.660,TB 674,3660007.715,4928328.339,1141.657,TB 675,3659989.902,4928288.334,1139.993,GS 676,3650397.281,4929413.603,1123.948,FL CL LAT W 677,3650597.227,4929415.267,1124.388,FL CL 678,3650797.068,4929406.710,1123.733,FL CL 679,3650997.490,4929408.504,1124.437,FL CL 680,3651198.320,4929402.210,1124.112,FL CL 681,3651326.614,4929401.299,1124.530,FL CL 682,3651332.965,4929402.407,1127.157,BEAVER DAM 683,3651531.947,4929398.654,1124.295,FL CL 684,3651731.635,4929440.345,1124.132,FL CL 685,3651928.793,4929509.782,1124.312,FL CL 686,3652124.159,4929660.198,1124.533,FL CL

687,3652306.760,4929862.394,1125.114,FL CL 688,3652442.344,4930028.142,1125.113,FL CL 689,3650245.122,4929412.025,1123.454,FL CL 690,3650150.988,4929412.780,1122.314,FL CL 691,3650331.784,4929361.121,1145.869,BRASS PLUG 692,3649816.313,4929436.594,1132.829,CP IRS 693,3649873.641,4929450.170,1132.169,TB 694,3649865.831,4929427.243,1133.182,GS 695,3649947.293,4929363.967,1130.953,GS 696,3649953.034,4929414.044,1132.448,TB 697,3650046.831,4929400.858,1132.957,TB 698,3650044.499,4929359.257,1131.127,GS 699,3650152.586,4929343.075,1131.304,GS 700,3650154.113,4929392.308,1133.357,TB 701,3650245.164,4929391.420,1133.093,TB 702,3650244.913,4929346.742,1131.681,GS 703,3650303.911,4929334.880,1133.389,GS 704,3650298.819,4929367.962,1137.919,GS 705,3650297.444,4929386.043,1137.120,TB 706,3650332.622,4929362.091,1143.286,BRDG 707,3650356.530,4929363.872,1143.348,BRDG 708,3650377.887,4929351.436,1139.806,TB 709,3650376.807,4929371.161,1138.498,TB 710,3650373.733,4929383.347,1137.608,TB 711,3650366.899,4929388.300,1137.225,TB 712,3650365.424,4929364.342,1140.843,GS 713,3650394.792,4929364.056,1124.503,TOE 714,3650404.426,4929364.513,1125.574,TOE 715,3650426.007,4929349.977,1138.083,TB 716,3650421.657,4929382.923,1140.729,TB 717,3650492.510,4929381.224,1138.083,TB 718,3650497.349,4929381.363,1137.949,TB 719,3650501.203,4929333.577,1133.785,GS 720,3650595.127,4929325.525,1132.751,GS 721,3650597.357,4929381.828,1136.083,TB 722,3650697.144,4929380.225,1136.490,TB 723,3650698.018,4929336.319,1133.830,GS 724,3650793.167,4929341.961,1134.697,GS 725,3650795.924,4929380.186,1137.002,TB 726,3650897.670,4929377.962,1138.210,TB 727,3650895.763,4929332.898,1135.697,GS 728,3650996.982,4929332.482,1137.759,GS 729,3650998.688,4929376.886,1140.754,TB 730,3651096.637,4929377.257,1140.135,TB 731,3651097.724,4929331.966,1138.965,GS 732,3651198.267,4929334.034,1136.502,GS 733,3651198.026,4929376.055,1136.629,TB 734,3651326.821,4929375.130,1137.440,TB 735,3651324.836,4929329.741,1135.046,GS

736,3651431.046,4929324.519,1134.382.GS 737,3651432.464,4929374.610,1136.797,TB 738,3651531.236,4929370.688,1137.211,TB 739,3651534.359,4929330.865,1134.816,GS 740,3651622.273,4929331.998,1134.486,GS 741,3651620.060,4929379.783,1136.368,TB 742,3651743.370,4929408.538,1136.718,TB 743,3651760.454,4929368.746,1135.012,GS 744,3651859.298,4929411.684,1135.241,GS 745,3651844.925,4929457.952,1136.600,TB 746,3651938.687,4929490.780,1136.111,TB 747,3651966.535,4929451.284,1134.759,GS 748,3652056.768,4929504.780,1135.446,GS 749,3652028.274,4929543.713,1136.962,TB 750,3652134.857,4929633.663,1136.526,TB 751,3652166.347,4929600.626,1134.752,GS 752,3652266.004,4929678.974,1134.142,GS 753,3652220.313,4929722.181,1136.410,TB 754,3652318.284,4929831.898,1136.882,TB 755,3652358.060,4929795.185,1134.467,65 756,3652463.216,4929900.915,1134.224,GS 757,3652415.183,4929952.691,1136.859,TB 758,3652469.452,4930013.679,1137.870,TB 759,3652507.208,4929980.167,1134.823,GS 760,3652601.534,4930061.726,1134.891,GS 761,3652552.306,4930101.096,1139.299,TB 762,3652608.284,4930175.663,1138.352,TB 763,3652647.079,4930146.525,1135.712,65 764,3652406.905,4929956.964,1136.904,BRDG 765,3652401.675,4929949.986,1136.654,BRDG 766,3652371.984,4929978.497,1137.244,BRDG 767,3652377.818,4929985.065,1137.486,BRDG 768,3652567.718,4930216.278,1138.201,TB 769,3652557.259,4930222.964,1138.702,GS 770,3652550.029,4930226.929,1135.950,65 771,3652524.781,4930245.017,1134.675,GS 772,3652458.987,4930172.190,1135.013,GS 773,3652500.937,4930140.680,1136.308,TB 774,3652430.846,4930055.896,1138.023,TB 775,3652396.621,4930080.382,1135.646,GS 776,3652344.485,4930017.473,1136.224,GS 777, 3652377.120, 4929988.849, 1137.764, TB 778,3652303.419,4929900.360,1138.448,TB 779,3652274.912,4929922.480,1138.125,GS 780,3652200.822,4929837.039,1136.919,65 781,3652198.100,4929778.072,1137.038,TB 782,3652109.042,4929682.160,1137.192,TB 783,3652076.242,4929715.926,1135.071,GS 784,3651976.844,4929641.313,1133.866,GS

785,3652008.403,4929598.470,1135.899,TB 786,3651899.576,4929536.914,1135.443,TB 787,3651881.898,4929576.261,1135.191,GS 788,3651781.824,4929537.216,1135.016,GS 789,3651799.288,4929495.877,1137.155,TB 790,3651710.544,4929462.475,1137.617,TB 791,3651696.316,4929501.352,1134.948,GS 792,3651591.081,4929462.069,1135.092,GS 793,3651593.863,4929434.481,1136.873,TB 794,3651530.505,4929428.655,1136.987,TB 795,3651528.711,4929468.829,1134.523,GS 796,3651428.843,4929465.975,1134.542,GS 797,3651432.597,4929430.300,1136.554,TB 798,3651325.262,4929430.951,1135.706,TB 799,3651323.826,4929469.765,1133.992,GS 800,3651200.637,4929478.465,1134.398,GS 801,3651197.149,4929434.835,1136.435,TB 802,3651095.896,4929435.404,1137.806,TB 803,3651097.646,4929485.041,1133.731,GS 804,3650990.351,4929491.438,1133.554,GS 805,3650996.325,4929438.003,1138.033,TB 806,3650897.207,4929436.446,1136.590,TB 807,3650895.090,4929483.213,1134.117,GS 808,3650799.392,4929483.575,1132.974,GS 809,3650797.209,4929437.010,1134.358,TB 810,3650696.941,4929437.902,1136.312,TB 811,3650697.440,4929481.906,1133.721,GS 812,3650597.369,4929485.852,1136.474,GS 813,3650597.728,4929442.731,1136.523,TB 814,3650496.833,4929445.288,1138.709,TB 815,3650498.173,4929493.583,1140.100,GS 816,3650396.923,4929490.141,1141.851,GS 817,3650397.778,4929455.275,1142.460,TB 818,3650400.927,4929454.210,1143.844,RR SPK WCP 819,3650389.431,4929458.106,1142.039,TB 820,3650371.273,4929473.690,1138.454,GS 821,3650367.257,4929447.278,1136.247,TB 822,3650347.995,4929474.564,1143.406,BRDG 823,3650324.218,4929472.564,1143.381,BRDG 824,3650309.850,4929471.964,1140.145,GS 825,3650310.171,4929450.003,1137.394,TB 826,3650296.251,4929445.622,1134.133,TB 827,3650280.466,4929444.510,1137.718,TB 828,3650245.079,4929444.923,1137.894,TB 829,3650240.483,4929487.326,1136.961,GS 830,3650151.030,4929485.020,1134.792,GS 831,3650151.964,4929442.386,1135.793,TB 832,3650045.051,4929447.392,1134.351,TB 833,3650044.329,4929484.088,1133.750,GS

834,3649961.882,4929518.666,1133.713,GS 835,3649960.245,4929467.832,1134.867,TB 836,3649957.203,4929425.673,1124.179,EOW 837,3649965.608,4929439.494,1123.576,EOW 838,3649961.053,4929433.561,1123.064,CL FL 839,3650043.895,4929420.700,1122.248,CL FL 840,3650042.800,4929413.891,1123.693,EOW 841,3650046.148,4929427.147,1123.790,EOW 842,3650148.833,4929420.097,1123.818,EOW 843,3650149.296,4929406.715,1123.764,EOW 844,3650245.376,4929404.421,1123.644,EOW 845,3650243.984,4929419.696,1123.962,EOW 846,3650400.484,4929425.252,1124.918,EOW 847,3650405.772,4929399.475,1124.748,EOW 848,3650389.656,4929403.348,1124.710,EOW 849,3650395.742,4929390.234,1124.774,EOW 850,3650402.074,4929389.979,1124.718,EOW 851,3650495.871,4929425.725,1124.834,EOW 852,3650497.559,4929404.658,1124.855,EOW 853,3650497.858,4929399.340,1125.252,TOE 854,3650497.062,4929414.985,1124.424,CL FL 855,3650598.692,4929426.867,1125.214,EOW 856,3650596.784,4929403.373,1125.154,EOW 857, 3650597.083, 4929394.948, 1126.345, TOE 858,3650696.044,4929400.488,1124.896,EOW 859,3650695.644,4929420.634,1125.162,EOW 860,3650696.149,4929409.734,1124.323,CL FL 861,3650796.519,4929398.014,1124.935,EOW 862,3650796.632,4929418.090,1125.134,EOW 863,3650895.054,4929410.609,1125.027,CL FL 864,3650896.008,4929419.767,1125.131,EOW 865,3650894.818,4929398.942,1124.949,EOW 866,3650997.841,4929399.520,1125.136,EOW 867,3651000.523,4929418.438,1125.177,EOW 868,3651094.554,4929400.939,1125.327,EOW 869,3651095.023,4929418.579,1125.286,EOW 870,3651095.215,4929410.478,1123.552,CL FL 871, 3651197.680, 4929393.554, 1125.370, EOW 872,3651198.775,4929418.303,1125.586,TOE 873,3651197.987,4929406.167,1125.314,EOW 874, 3651326.314, 4929396.730, 1125.141, TOE 875,3651329.651,4929415.257,1125.256,EOW 876,3651432.324,4929386.883,1127.101,EOW 877,3651435.212,4929408.760,1127.150,EOW 878,3651434.557,4929397.206,1124.346,CL FL 879,3651530.910,4929387.647,1127.155,EOW 880,3651529.985,4929406.766,1127.113,EOW 881,3651594.043,4929412.784,1127.018,EOW 882,3651596.971,4929388.965,1127.238,EOW

883,3651595.344,4929401.522,1124.580,CL FL 884,3651738.877,4929431.068,1127.283,EOW 885,3651729.757,4929455.629,1127.310,EOW 886,3651803.894,4929483.276,1127.315,EOW 887,3651814.137,4929460.750,1127.233,EOW 888,3651808.651,4929470.643,1124.193,CL FL 889,3651933.085,4929500.214,1127.163,EOW 890,3651924.175,4929520.652,1127.119,EOW 891,3652013.783,4929585.610,1127.200,EOW 892,3652027.914,4929567.932,1127.228,EOW 893,3652020.295,4929577.042,1124.817,CL FL 894,3652130.611,4929653.006,1127.150,EOW 895,3652115.413,4929666.809,1127.163,EOW 896,3652207.605,4929768.156,1127.170,EOW 897,3652223.756,4929756.615,1127.136,EOW 898,3652216.446,4929762.449,1124.663,CL FL 899,3652315.897,4929856.563,1126.993,EOW 900, 3652299.154, 4929867.946, 1127.120, EOW 901,3652405.390,4929964.326,1127.345,EOW 902,3652389.313,4929978.838,1127.285,EOW 903,3652397.096,4929971.477,1125.049,CL FL 904,3652434.957,4930038.260,1127.298,EOW 905,3652454.557,4930024.550,1127.179,EOW 906, 3652509.863, 4930133.898, 1127.348, EOW 907,3652530.815,4930114.015,1127.266,EOW 908,3652521.573,4930122.483,1126.022,CL FL 909,3652599.927,4930192.662,1127.274,EOW 910,3652578.360,4930210.492,1127.323,EOW 911,3652589.123,4930201.471,1125.596,CL FL 912,3652507.046,4930095.109,1123.682,ROCK DAM 913,3652511.239,4930100.512,1125.936,ROCK DAM 914,3652529.414,4930117.167,1126.516,ROCK DAM 915,3652511.848,4930135.250,1126.501,ROCK DAM 916,3652494.990,4930112.616,1125.881,ROCK DAM 917,3652497.060,4930103.151,1123.165,ROCK DAM 918,3653577.217,4930335.872,1134.204,GS 919,3653563.841,4930371.408,1134.237,GS 920,3653550.480,4930406.646,1134.428,GS 921,3653536.703,4930445.273,1135.326,TB 922,3653534.457,4930455.292,1132.696,GS 923,3653532.960,4930465.149,1127.507.GS 924,3653532.388,4930471.828,1124.873,TOE 925,3653508.811,4930475.179,1124.821,TOE 926,3653507.198,4930448.160,1136.324,TB 927,3653502.332,4930412.608,1135.725,GS 928,3653497.613,4930382.742,1134.813,GS 929,3653555.972,4930444.472,1134.411,TB 930,3653606.384,4930441.199,1137.798,TB 931,3653608.390,4930467.664,1124.581,TOE

932,3653552.303,4930469.915,1125.056,TOE 933,3653553.115,4930460.287,1128.139,TOP 12"CMPTILE 934,3653553.024,4930460.938,1126.724,GS 935,3653554.864,4930451.600,1131.628,GS 936,3653597.756,4930405.504,1135.463,GS 937,3653606.664,4930379.058,1134.444,GS 938,3655277.203,4930025.483,1136.994,TB 939,3655282.774,4930041.619,1129.418,GS 940,3655288.208,4930053.606,1125.443,0E 941,3655314.353,4930043.923,1125.607.0E 942,3655312.264,4930034.356,1128.509,GS 943,3655262.085,4930064.333,1125.585,TOE 944,3655258.686,4930056.614,1128.288,GS 945,3655253.862,4930036.444,1136.969,TB 946,3655246.761,4930022.892,1137.832,GS 947, 3655235.289, 4930002.001, 1138.499, GS 948,3655260.604,4929988.458,1138.744,GS 949,3655298.522,4929975.861,1138.556,GS 950,3655300.566,4929986.906,1138.289,GS 951,3655310.189,4930019.118,1137.071,TB 952,3655270.610,4930012.596,1137.618,GS 953,3657952.629,4929906.649,1139.267,GS 954,3657978.561,4929879.119,1139.404,GS 955,3657937.782,4929921.649,1139.338,GS 956,3657956.057,4929941.132,1139.312,GS 957,3657974.715,4929922.026,1139.348,GS 958,3658001.337,4929895.480,1139.208,GS 959,3658025.179,4929918.802,1139.401,TB 960, 3657998.087, 4929945.592, 1138.914, TB 961,3657975.349,4929967.012,1139.182,TB 962,3657988.375,4929982.854,1131.998,TOE 963,3658012.982,4929960.708,1127.248,TOE 964,3658036.639,4929934.914,1127.201,TOE 965,3656883.857,4930099.480,1136.337,GS 966,3656926.883,4930116.635,1136.244,GS 967,3656843.082,4930086.855,1137.055,GS 968,3656822.887,4930140.613,1136.188,GS 969,3656866.807,4930160.023,1135.985,GS 970,3656911.836,4930174.809,1135.826,GS 971,3656893.506,4930244.647,1137.924,TB 972,3656846.810,4930225.757,1136.667,TB 973,3656802.435,4930204.856,1137.417,TB 974,3656796.029,4930222.348,1126.637,TOE 975,3656838.735,4930242.270,1126.542,TOE 976,3656868.381,4930254.880,1126.540,TOE 977,3656274.966,4929989.298,1137.292,TB 978,3656319.070,4930006.467,1137.328,TB 979,3656313.006,4930023.974,1126.243,TOE 980,3656267.247,4930007.254,1126.239,TOE

8778 DD#118-232 981,3656221.324,4929988.869,1126.445,TOE 982,3656225.296,4929968.717,1136.445,TB 983, 3656236.516, 4929934.080, 1137.651, GS 984, 3656288.877, 4929955.223, 1137.399, GS 985,3656332.586,4929973.656,1137.500,GS 986,3656347.964,4929934.214,1137.921,GS 987,3656301.999,4929917.434,1138.521,GS 988,3656254.044,4929905.237,1138.126,GS 989,3661052.655,4928227.629,1143.286,DIVIT 1" S SIDE CL BRDG 990,3658634.779,4929251.566,1137.095,FL CMP SURF 991,3658660.760,4929283.202,1133.580,FL CMP SURF 15" 992,3658666.698,4929282.441,1132.616,TOP CMP8" 993,3658207.630,4929706.311,1136.872,CMP NEW18" 994,3658228.221,4929729.312,1132.121,CMP NEW18" 995,3656862.942,4930216.572,1134.185,CMP NEW18" 996,3656850.695,4930244.209,1130.911,CMP NEW18" 997,3656177.242,4929934.909,1135.181,CMP NEW24" 998,3656166.100,4929962.703,1130.762,CMP NEW24" 999,3655312.561,4929999.389,1136.530,CMP FL NEW24" 1000,3655322.066,4930028.238,1130.873,CMP FL NEW24" 1001,3653531.920,4930432.441,1133.044,CMP FL NEW18" 1002,3653534.405,4930462.478,1130.021,CMP FL NEW18" 1003,3652172.018,4929646.706,1132.146,CMP FL NEW24" 1004,3652150.029,4929667.416,1128.594,CMP FL NEW24" 1005,3650454.337,4929279.055,1129.421,CMP FL NEW24" 1006,3650424.626,4929272.603,1128.011,CMP FL NEW24" 1007,3651496.565,4929384.495,1128.305,FL 18"NEW CMP 1008,3651497.347,4929354.337,1132.797,FL 18"NEW CMP 1009,3651487.814,4929384.167,1129.044,FL 8"NEW CMP 1010,3651492.099,4929343.699,1131.537,TP 8"NEW CMP 1011,3652189.942,4929656.851,1128.619,TP 8"NEW CMP 1012,3652162.762,4929685.318,1126.903,TP 8"NEW CMP 1013,3651549.748,4929410.027,1128.312,TP 8"NEW CMP 1014,3651556.985,4929448.081,1128.767,TP 8"NEW CMP 1015,3652478.769,4930087.197,1128.091,TP 8"NEW CMP 1016,3652472.555,4930126.162,1129.722,TP 8"NEW CMP 1017,3654397.331,4930495.458,1132.944,FL 24"NEW CMP 1018,3654394.097,4930465.524,1129.975,FL 24"NEW CMP 1019,3654371.117,4930465.431,1128.225,FL 15" EXIST CMP 1020,3653921.471,4930508.419,1136.250,FL 18"NEW CMP 1021,3653922.099,4930478.780,1129.416,FL 18"NEW CMP 1022,3656930.368,4930298.886,1132.409,TP 6"NEW CMP 1023,3656930.015,4930338.125,1134.259,TP 6"NEW CMP 1024,3657074.744,4930418.296,1140.038,GS 1025,3656551.918,4930176.865,1135.657,FL 24"NEW CMP 1026,3656561.529,4930148.073,1131.680,FL 24"NEW CMP 1027,3656022.512,4929928.251,1131.040,FL 18"NEW CMP 1028,3656016.785,4929957.896,1136.305,FL 18"NEW CMP 1029,3656867.685,4930249.915,1131.298,FL 6"NEW CMP

8778 DD#118-232 1030,3656876.061,4930232.084,1132.228,FL 6"NEW CMP 1031,3660319.471,4928210.599,1131.711,FL 8"NEW CMPFARMER TIBBS 1032,3659542.261,4928545.796,1132.486,FL 8"NEW CMPFARMER TIBBS 1033,3657776.255,4930274.674,1132.348,FL 12"NEW CMP 1034,3657745.428,4930251.905,1129.370,FL 12"NEW CMP 1035,3658332.974,4929648.394,1131.909,TP 6"NEW CMP 1036,3658365.625,4929671.338,1133.414,TP 6"NEW CMP 1037,3634184.594,4932865.494,1130.173,CPT IRS 3/4 1038,3633953.119,4932940.532,1125.401,TB 1039,3633944.325,4932925.274,1124.697,TB 1040,3633945.231,4932942.744,1125.142,GSWASHOUT 1041,3633944.677,4932944.233,1123.479,GS WASHOUT 1042,3633932.027,4932951.139,1122.875,GS WASHOUT 1043,3633931.038,4932951.422,1125.175,GS WASHOUT 1044,3633917.638,4932963.087,1125.196,GS WASHOUT 1045,3633918.471,4932964.222,1123.237,GS WASHOUT 1046,3633898.731,4932970.877,1125.261,GS WASHOUT 1047,3633898.938,4932972.272,1123.089,GS WASHOUT 1048,3633884.856,4932984.696,1125.608,GS WASHOUT 1049,3633885.952,4932984.820,1123.579,GS WASHOUT 1050,3633910.495,4932977.303,1120.487,CMP TOP 1051,3633910.707,4932977.644,1116.471,CMP FL 1052,3633906.425,4932953.130,1125.104,TB 1053,3633904.258,4932948.836,1119.911,CMP TOP 1054,3633938.126,4932916.036,1118.267,TOE 1055, 3633935.709, 4932914.282, 1117.320, TOE 1056,3633960.871,4932951.287,1115.285,TOE 1057,3633901.850,4932995.000,1115.637,FL 48"CMP NEW 1058,3633890.124,4932955.869,1116.150,FL 48"CMP NEW 1059,3633945.978,4932944.676,1125.390,TB REPAIR 1060,3633918.718,4932964.098,1125.075,TB RIPRAP 1061,3633891.542,4932985.274,1125.233,TB RIPRAP 1062,3633871.842,4933002.235,1126.084,TB REPAIR 1063,3633860.125,4932961.865,1124.315,TB REPAIR 1064,3633872.566,4932959.249,1123.831,TB CONC RIPRAP 1065,3633883.806,4932964.401,1124.639,TB CONC RIPRAP 1066,3633899.100,4932956.412,1125.093,TB CONC RIPRAP 1067,3633912.957,4932987.502,1116.318,FL 48"CMP 10'EXT 1068,3634642.784,4923002.606,1149.999,GS -27.5 1069,3634643.248,4922951.467,1150.067,GS -26.3 1070,3634641.936,4923059.075,1149.809,GS -26.4 1071,3634629.686,4923005.049,1146.078,TOP CMP 12TO FL 1072,3634606.641,4926775.044,1151.941,GS -20.9F0 1073,3634606.321,4926813.515,1152.058,GS -21.5F0 1074,3634606.315,4926810.794,1152.032,GS -10.0 TILE 8"CLAY 1075,3634580.533,4926806.674,1147.802,GS -6.0TILE 8"CLAY 1076,3634655.322,4926825.566,1143.145,GS -33"@INTK 1077,3634605.728,4926854.790,1152.783,GS -21.4FO 1078,3634602.374,4927511.594,1154.004,GS -6.5TOP TILE6"CLAY

8778 DD#118-232 1079,3634585.468,4930229.067,1133.608,RIM BEEHIVE-50"FLN 1080,3634575.549,4930487.142,1133.400,BLOWOUT 2' 1081,3634529.439,4930463.818,1135.149,TOP SYPTIC TANK 1082,3634613.174,4929596.742,1145.383,scf mag 1083,3634597.524,4929861.596,1142.763,GS CABLE 36"DEEP 1084,3634600.940,4929861.759,1142.927,EOA S EDGE 1085,3634588.507,4929862.086,1138.281,GS 20" OD CLAY TILE 7.8' TO TOP TILE 1086,3634547.303,4930467.345,1135.194,GS LOCATE 1087,3634553.680,4930471.479,1135.243,GS LOCATE 41" DEEP 1088,3634563.456,4930477.947,1135.250,GS LOCATE 1089,3634566.761,4930480.012,1135.319,GS LOCATE 1090,3634581.986,4930490.823,1133.738,GS 3.94' TO TOP 6" SPIRAL CMP 1091,3634586.276,4930494.904,1134.467,GS 5.27' TO TOP 6" SPIRAL CMP TIE IN 5.80' TO TOP 2.75'OD CLAY TILE 1092,3634586.058,4930698.716,1134.568,GS 6.86' TO TOP 2.65" OD CLAY TILE 1093,3634595.460,4930241.975,1139.700,GS CABLE BORE LOCATE 6.0'DEEP 1094,3634595.016,4930295.175,1140.002,GS CABLE BORE LOCATE 6.0'DEEP 1095,3634595.158,4930332.286,1138.818,GS CABLE BORE LOCATE 6.0' DEEP 1096,3634596.111,4930362.264,1139.273,GS CABLE BORE LOCATE 6.0'DEEP 1097,3634596.448,4930392.367,1139.273,GS CABLE BORE LOCATE 6.0'DEEP 1098,3634595.628,4930422.028,1138.972,GS CABLE BORE LOCATE 6.0'D 1099,3634595.091,4930462.078,1138.502,GS CABLE BORE LOCATE 6.0'DEEP 1100,3634595.228,4930482.579,1138.642,GS CABLE BORE LOCATE 6.0'DEEP 1101,3634595.259,4930511.712,1138.497,GS CABLE BORE LOCATE 6.5'DEEP 1102,3634599.238,4930502.506,1139.818,GS EOA S SIDE 1103,3634599.011,4930699.272,1139.210,GS EOA S SIDE 1104,3634565.656,4930686.085,1135.516,FNL EAST 1105,3634594.844,4930541.626,1139.058,GS CABLE BORE LOCATE 6.8'DEEP 1106,3634594.699,4930571.954,1139.359,GS CABLE BORE LOCATE 6.8'DEEP 1107,3634595.562,4930592.348,1139.305,GS CABLE BORE LOCATE 6.8'DEEP 1108,3634595.545,4930633.152,1138.669,GS CABLE BORE LOCATE 5.5'DEEP 1109,3634595.096,4930672.307,1138.417,GS CABLE BORE LOCATE 4.5'DEEP 1110,3634595.132,4930672.253,1138.414,GS CABLE BORE LOCATE 4.0'DEEP 1111,3634585.111,4930229.354,1129.379.FL 18" BEEHIVE INTAKE 1112,3634585.420,4930229.285,1133.694,18" BEEHIVE INTAKE N RIM 1113,3634587.892,4930229.463,1134.484,GS 6.0' TO TOP TILE 1114,3634600.476,4930231.515,1140.301,GS EOA S SIDE 1115,3634565.961,4930202.521,1136.598,FNL S&W 1116,3634586.829,4931156.251,1134.753,GS TILE BORE LOCATE 1117,3634588.657,4931196.422,1136.053,GS TILE BORE LOCATE 1118,3634563.933,4931320.238,1134.025,FNL E-W &S 1119.3634597.676.4931241.249.1139.587.EOA 22' 1157,3634597.963,4931157.541,1139.149,GS EOA 21' 1158,3634597.823,4931198.605,1139.265,GS EOA 21'6" 1159,3634588.297,4931236.347,1136.424,GS BORE CABLE LOCATE 1160,3634595.277,4931339.490,1140.128,GS PULL CABLE 3.0' DEEP 1161,3634597.639,4931339.409,1140.535,GS EOA S SIDE 1162,3634596.380,4931056.594,1138.746,GS PULLED CABLE 36"DEEP 1200,3635925.987,4929548.667,1134.755,n rim beehive intake

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1201,3635925.037,4929548.090,1132.552,fl 8" conc tile 1202,3635925.501,4929548.907,1133.259,top 8" conc tile 1203,3635273.398,4929558.747,1132.210,tile top 6" cmp spiral 1204,3635273.334,4929560.678,1131.945,tile top 6" cmp spiral band 1205,3635273.348,4929561.744,1131.994,tile top 6" cmp spiral 90 elbow 1206,3635274.211,4929561.976,1130.856,tile top 8" cmp spiral 1207,3635271.403,4929560.798,1131.252,tile top 8" cmp spiral 0.68'toptofl 1208,3634588.076,4930642.342,1134.604,gs 7" hole 1209,3634587.738,4930640.386,1134.686,gs 7" hole 1210,3635285.014,4929602.679,1137.586,rcp 36" top 3.36'toptofl 1211,3635283.957,4929566.283,1136.955,rcp 36" top 3.11'toptofl 1212,3635268.796,4929559.642,1136.768,HICKENBOTTOM INTAKE NEW TOP 8" 8000,3650215.430,4929387.381,1133.161,303+25.000 L 30.0 8001,3650291.627,4929385.663,1136.841,304+00.000 L 30.0 8002,3650492.166,4929379.204,1138.374,306+00.000 L 30.0 8003,3650689.922,4929379.454,1136.806,308+00.000 L 30.0 8004,3650892.535,4929376.033,1138.032,310+00.000 L 30.0 8005,3651092.065,4929374.007,1140.711,312+00.000 L 30.0 8006,3651290.938,4929373.133,1137.956,314+00.000 L 30.0 8007,3651491.110,4929368.531,1135.549,316+00.000 L 30.0 8008,3651695.206,4929392.593,1137.137,318+00.000 L 30.0 8009,3651885.612,4929467.604,1135.704,320+00.000 L 30.0 8010,3652063.083,4929570.939,1137.775,322+00.000 L 30.0 8011,3652212.084,4929710.675,1136.822,324+00.000 L 30.0 8012,3652345.845,4929864.425,1136.647,326+00.000 L 30.0 8013,3652471.835,4930014.421,1138.270,328+00.000 L 30.0 8014,3652601.550,4930167.172,1138.715,330+00.000 L 30.0 8015,3652725.955,4930315.852,1138.792,332+00.000 L 30.0 8016,3652876.832,4930428.820,1139.928,334+00.000 L 40.0 8017,3653059.996,4930451.194,1141.967,336+00.000 L 40.0 8018,3653256.484,4930447.109,1140.896,338+00.000 L 40.0 8019,3653456.076,4930444.823,1138.797,340+00.000 L 40.0 8020,3653654.069,4930436.943,1139.016,342+00.000 L 40.0 8021,3653854.817,4930430.263,1140.341,344+00.000 L 40.0 8022,3654055.297,4930427.353,1139.730,346+00.000 L 40.0 8023,3654255.275,4930421.438,1140.653,348+00.000 L 40.0 8024,3654455.544,4930416.620,1139.823,350+00.000 L 40.0 8025,3654642.912,4930400.561,1140.523,352+00.000 L 40.0 8026,3654817.512,4930324.347,1140.665,354+00.000 L 40.0 8027,3654977.153,4930210.590,1141.360,356+00.000 L 40.0 8028,3655143.646,4930085.973,1139.235,358+00.000 L 30.0 8029,3655330.532,4930002.496,1139.060,360+00.000 L 40.0 8030,3655521.212,4929945.553,1140.854,362+00.000 L 40.0 8031,3655693.083,4929896.584,1138.727,363+75.000 L 40.0 8032,3655924.124,4929859.487,1138.272,366+00.000 L 30.0 8033,3656119.694,4929920.123,1138.336,368+00.000 L 30.0 8034,3656305.101,4929991.660,1139.022,370+00.000 L 30.0 8035,3656488.188,4930074.200,1139.353,372+00.000 L 30.0 8036,3656674.960,4930150.146,1138.200,374+00.000 L 30.0

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8037,3656860.455,4930227.026,1137.687,376+00.000 L 30.0 8038,3657048.968,4930300.724,1139.045,378+00.000 L 30.0 8039,3657226.256,4930371.119,1139.108,380+00.000 L 30.0 8040,3657413.535,4930395.772,1139.312,382+00.000 L 30.0 8041,3657583.725,4930343.831,1139.357,384+00.000 L 30.0 8042,3657727.421,4930218.390,1139.214,386+00.000 L 30.0 8043,3657868.099,4930071.628,1140.530,388+00.000 L 30.0 8044,3658016.884,4929921.552,1139.932,390+00.000 L 30.0 8045,3658149.014,4929789.473,1139.505,392+00.000 L 30.0 8046,3658285.508,4929646.898,1140.360,394+00.000 L 30.0 8047,3658426.066,4929498.619,1140.774,396+00.000 L 30.0 8048,3658561.785,4929354.317,1139.593,398+00.000 L 30.0 8049,3658705.741,4929213.590,1140.014,400+00.000 L 30.0 8050,3658844.851,4929069.774,1140.684,402+00.000 L 30.0 8051,3658981.781,4928924.950,1140.090,404+00.000 L 30.0 8052,3659121.860,4928781.735,1140.289,406+00.000 L 30.0 8053,3652416.049,4929954.300,1136.975,CP HUB 9000,3633010.750,4936255.785,1131.683,CUT X NE COR BRDG 9001,3632946.490,4936356.821,1127.675,TB 9002,3632923.839,4936358.173,1127.782,GS 9003,3632913.693,4936358.514,1127.805,GS 9004,3632887.217,4936361.815,1133.264,GS CROP LN 9005,3632908.449,4936470.242,1130.714,GS CROP LN 9006,3632918.757,4936468.960,1127.742,GS 9007,3632928.956,4936469.946,1127.150,GS 9008,3632951.256,4936469.077,1127.753,TB 9009,3632975.268,4936466.423,1113.472,TOE 9010, 3632917. 364, 4936572. 865, 1129. 296, GS CROPLN 9011,3632934.792,4936570.761,1125.952,GS 9012,3632943.215,4936570.334,1126.247,GS 9013,3632962.788,4936569.631,1127.602,TB 9014,3632983.929,4936569.473,1113.910,TOE 9015,3632995.885,4936607.616,1113.099,TOE 9016,3632984.421,4936610.422,1118.497,CONC RUBBLE 9017,3632981.444,4936611.348,1123.058,TOP 24"CMP SURF 9018,3632975.667,4936613.604,1124.111,GS 9019,3632969.557,4936615.003,1127.543,TB 9020,3632958.170,4936620.023,1127.385,TB 9021,3632956.379,4936619.666,1126.707,TOP 24"CMP 9022,3632955.943,4936620.229,1124.636,FL 24"CMP SURF 9023,3632943.690,4936623.120,1125.470,GS 9024,3632921.995,4936625.157,1126.833,GS CROP LN 9025,3632923.455,4936638.407,1126.104,GS CROP LN 9026,3632904.194,4936641.620,1126.901,GS CROP LN 9027,3632804.649,4936640.612,1129.877,GS CROP LN 9028,3632803.079,4936662.144.1128.457,GS 9029,3632801.917,4936686.695,1126.902,GS FL 9030,3632801.453,4936719.126,1128.465,GS CROPLN 9031,3632851.519,4936724.248,1127.671,GS CROPLN

8778 DD#118-232 9032,3632862.798,4936723.863,1127.709,GS CROPLN 9033,3632865.916,4936684.326,1125.931,G5 FL 9034,3632921.802,4936667.390,1125.235,GS FL 9035,3632926.279,4936707.596,1126.075,GS 9036,3632903.023,4936734.405,1127.183.GS 9037,3632881.764,4936767.708,1129.159,GS 9038,3632862.882,4936759.024,1128.982,GS CROPLN 9039,3632813.327,4936810.079,1133.669,GS CROPLN 9040,3632834.889,4936835.193,1133.689,GS 9041,3632863.906,4936866.275,1135.042,GS CROPLN 9042,3632889.768,4936804.800,1131.127,GS CROPLN 9043,3632918.173,4936764.808,1128.201,GS CROPLN 9044,3632964.089,4936740.212,1126.378,GS CROPLN 9045,3632977.875,4936749.642,1126.525,GS CROPLN 9046,3633003.601,4936796.196,1128.135,GS CROPLN 9047,3633032.514,4936858.663,1131.354,GS CROPLN 9048,3633043.326,4936854.273,1131.135,GS 9049,3633057.932,4936849.330,1130.810,TB 9050,3633026.135,4936808.880,1129.026,GS 9051,3633037.273,4936804.992,1128.818,TB 9052,3633058.730,4936798.606,1113.691,TOE 9053,3633041.152,4936749.598,1113.742,TOE 9054,3633039.318,4936730.553,1113.794,TOE 9055,3633027.365,4936722.784,1117.299,FL 8"CMP 9056,3633034.570,4936722.847,1114.847,TOE 9057,3633042.543,4936722.072,1114.015,GS COBBEL BAR 9058,3633045.931,4936711.507,1113.712,GS COBBEL BAR 9059,3633041.106,4936698.972,1113.926,GS COBBEL BAR 9060,3633032.428,4936690.915,1113.918,GS COBBEL BAR 9061,3633019.609,4936685.305,1113.817,GS COBBEL BAR 9062,3633017.194,4936691.407,1116.477,GS COBBEL BAR 9063,3633023.980,4936699.287,1116.830,GS COBBEL BAR 9064,3633030.918,4936711.068,1116.203,GS COBBEL BAR 9065,3633011.870,4936680.060,1114.102,TOE 9066,3633012.415,4936667.839,1113.245,TOE 9067,3633006.831,4936656.402,1112.702,TOE 9068,3633002.522,4936661.807,1115.218.GS 9069,3633004.941,4936671.665,1115.628,GS 9070,3632991.145,4936644.538,1114.247,TOE CONCRUBBEL 9071,3632990.300,4936636.879,1114.154,TOE CONCRUBBEL 9072,3632998.434,4936636.307,1114.666,GS 9073,3633000.247,4936635.906,1113.404,TOE 9074,3632998.408,4936643.621,1113.906,GS 9075,3633002.346,4936642.765,1113.261,TOE 9076,3632996.500,4936623.575,1113.317,TOE 9077,3632971.875,4936627.655,1127.669,TB 9078,3632961.675,4936631.499,1127.739,TB 9079,3632955.145,4936634.590,1125.727,GS 9080,3632943.927,4936651.749,1124.754,GS

8778 DD#118-232 9081,3632956.688,4936646.855,1124.446,FL 24"CMP 9082,3632957.174,4936646.617,1126.439,TOP CMP 9083,3632958.721,4936653.180,1124.262,FL 24"CMP 9084,3632959.631,4936652.872,1126.286,TOP CMP 9085,3632964.280,4936651.995,1127.456,TB 9086,3632962.620,4936644.489,1127.557,TB 9087,3632974.700,4936641.240,1128.118,TB SLOUGH 9088,3632977.659,4936651.231,1128.338,TB SLOUGH 9089,3632979.552,4936654.435,1128.227,TB SLOUGH 9090,3632985.575,4936665.259,1126.758,TB SLOUGH 9091,3632986.289,4936670.869,1127.024,TB SLOUGH 9092,3632984.171,4936660.772,1127.000,TB 9093,3632990.408,4936679.213,1126.724,TB SLOUGH 9094,3632993.120,4936689.532,1126.590,TB SLOUGH 9095,3632982.901,4936695.681,1126.418,TB SLOUGH 9096,3632970.049,4936696.783,1125.900,TB SLOUGH 9097,3632960.039,4936704.557,1125.658,TB SLOUGH 9098,3632964.240,4936714.387,1125.774,TB SLOUGH 9099,3632971.898,4936724.343,1125.859,TB SLOUGH 9100,3632984.101,4936726.994,1125.970,TB SLOUGH 9101,3632991.560,4936725.906,1126.265,TB SLOUGH 9102,3632995.368,4936733.110,1126.092,TB SLOUGH 9103,3633007.524,4936734.288,1126.569,TB SLOUGH 9104,3633015.027,4936742.281,1126.954,TB SLOUGH 9105,3633019.679,4936750.444,1127.318,TB SLOUGH 9106,3633024.179,4936761.858,1127.243,TB 9107,3633029.718,4936779.648,1127.596,TB 9108,3633006.697,4936770.623,1127.235,GS 9109,3632987.372,4936740.306,1126.125.GS 9110,3632999.683,4936726.884,1121.751,GS 9111, 3632995.548, 4936725.709, 1122.594, GS 9112,3633000.265,4936730.126,1122.258,GS 9113,3633007.841,4936728.561,1121.975,GS 9114,3633010.747,4936720.112,1120.680,GS 9115,3633016.308,4936718.074,1118.659,GS 9116,3633010.076,4936703.805,1118.342,GS 9117,3633004.841,4936698.934,1118.435.GS 9118,3633001.993,4936692.458,1118.885,GS 9119, 3632993. 782, 4936695. 244, 1119. 402, GS 9120,3632993.397,4936703.684,1119.069,65 9121,3632995.979,4936711.857,1119.419,GS 9122,3632999.392,4936716.759,1121.005,GS 9123,3632989.680,4936722.453,1120.841,GS 9124,3632988.154,4936717.769,1119.039,GS 9125,3632985.552,4936709.734,1119.163,GS 9126,3632983.405,4936700.048,1120.075.GS 9127,3632968.814,4936700.454,1121.141,GS 9128,3632962.489,4936704.739,1121.151,GS 9129,3632968.690,4936708.878,1119.530,GS

9130, 3632970. 198, 4936717. 940, 1121.031, GS 9131, 3632977.032, 4936713.834, 1119.397, GS 9132, 3632981.082, 4936722.289, 1120.765, GS 9133,3632955.122,4936722.424,1125.944,GS 9134,3632950.403,4936688.094,1125.447,GS 9135,3632965.366,4936675.159,1125.415,GS 9136,3632968.742,4936672.532,1126.827,TB 9137,3633028.133,4936781.993,1128.165,BM HUB 9138,3633385.645,4937725.072,1121.036,WASHOUT 9139,3633008.122,4936729.623,1124.085,GS KEY 9140,3632993.905,4936733.223,1124.549,GS KEY 9141,3632977.729,4936735.474,1125.290,GS KEY 9142,3632963.107,4936732.705,1125.549,GS KEY 9143,3632951.972,4936722.640,1125.339,GS KEY 9144,3632948.372,4936708.823,1124.908,GS KEY 9145,3632955.092,4936696.475,1124.935,GS KEY 9146,3632964.092,4936690.347,1124.605,GS KEY 9147,3632977.368,4936686.931,1125.277,GS KEY 9148,3632987.128,4936683.639,1125.436,GS KEY 9149,3632988.351,4936701.281,1119.433,TOE 9150,3632992.513,4936713.878,1119.182,TOE 9151,3632973.554,4936716.633,1119.929,TOE 9152,3632970.286,4936706.933,1120.241,TOE 9153,3633005.481,4936687.295,1115.401,TOE 9154,3633017.138,4936712.750,1114.641,TOE 9155,3632931.561,4936753.187,1127.364,GS 9156,3632906.964,4936688.284,1125.803,GS 9157,3632914.259,4936705.846,1126.238,GS ROCKCOR 9158,3633028.671,4936725.522,1114.455,GS ROCKCOR 10001,3639955.984,4927801.673,1147.981,IP 58 10002,3634440.716,4936206.539,1163.310,CPT 3/4 .5DEEP 30000,3655728.205,4929891.780,1140.196,BR SEAT 30001,3657909.966,4932022.326,1140.015,BR SEAT 30002,3659863.862,4937336.431,1148.684,BR SEAT 30003,3659865.389,4937337.321,1152.343,CUT SQ 30004,3659770.925,4934732.133,1142.007,IR 58 30005,3659814.537,4934684.565,1141.685,SPK BP 30073,3660617.096,4934703.728,1136.654,TOE 30236,3659814.441,4934684.485,1141.542,SPK BRACEPST 30237,3663758.591,4934807.275,1143.735,SPK CORPST 40000,3643021.331,4921243.902,1149.631,IR 58 40001,3642586.329,4922475.431,1143.461,BOTTLECAP 40002,3642588.600,4922430.730,1144.568,NAIL FUZZY 40003,3643011.338,4921249.131,1145.361,GA 40004,3642670.960,4917591.297,1156.450,IR 34 40313,3657751.076,4931054.897,,Intersection 40314,3657689.035,4930989.698,,Cogo 40315,3657763.184,4931144.079,,Cogo 40316,3657927.114,4932351.497,,Intersection

40317,3657927.114,4932351.497,,Intersection 40318,3657880.027,4932004.679,,Cogo 40319,3658277.007,4932360.118,,Cogo 40320,3658326.992,4932361.350,,Cogo 40321,3657873.300,4931955.133,,Cogo 40322,3657885.880,4932047.793,,Cogo 40323,3658065.983,4932354.919,,Intersection 50188,3659866.038,4937316.055,1150.432,irs 34 70001,3638581.610,4931343.800,,Intersection 70003,3638897.730,4930824.992,,Intersection 70006,3639402.492,4929206.020,,Intersection 70008,3639452.453,4929131.161,,Cogo 70009,3639768.716,4928657.289,,Intersection 70010,3639616.057,4928886.025,,Cogo 70011,3639507.285,4928571.974,,Cogo 70012,3639035.380,4928424.415, Intersection 70013,3639130.823,4928454.259,,Cogo 70014,3638965.621,4928352.766,,Cogo 70015,3638256.684,4927624.615,,Intersection 70016,3638389.226,4927760.750,,Cogo 70017,3638395.627,4927495.020,,Cogo 70018,3639041.022,4926893.045,,Intersection 70019,3638960.582,4926968.074,,Cogo 70020,3639150.997,4926890.684,,Cogo 70021,3640913.662,4926852.078,,Intersection 70022,3640513.758,4926860.836,,Cogo 70023,3640810.389,4926465.639,,Cogo 70024,3640896.890,4926789.316,,Intersection 70025,3640584.714,4926831.406,,Cogo 70026,3640815.562,4926484.996,,Cogo 70027,3640624.356,4926826.061,,Cogo 70028,3640825.890,4926523.640,,Cogo 70029,3640568.145,4925559.180, Intersection 70030,3640599.126,4925675.111,,Cogo 70031,3640604.081,4925444.687,,Cogo 70032,3640593.963,4925655.789,,Cogo 70033,3640598.092,4925463.769,,Cogo 70034,3641231.596,4923444.315,,Intersection 70035,3641209.543,4923516.000,,Cogo 70036,3641278.061,4923385.443,,Cogo 70037,3641625.253,4922945.535,,Intersection 70042,3643146.406,4922230.155,,Intersection 70043,3643084.472,4922233.000,,Cogo