

**AGENDA**  
**REGULAR DRAINAGE MEETING**  
**Wednesday, February 10, 2021 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:

[01\\_27\\_21 - DRAINAGE MINUTES.PDF](#)

4. Approve Claims For Payment

Documents:

[PAYABLES-DRAINAGE PUBLICATION 02\\_12\\_21.PDF](#)

5. DD 128 Lats 1 & 3 WO 2020-12 - Discuss W Possible Action - Tile Condition Update

Documents:

[2020-12 DD 128 ONLY - UTILITY CROSSING SUMMARY 12\\_09\\_20.PDF](#)  
[DD128 GEHRKE TILE MAP 02-02-21.PDF](#)

6. Discuss W Possible Action - IRUA Drainage Utility Permits
7. Discuss W Possible Action - Drainage Assessment Project
8. Other Business
9. Adjourn Meeting

**REGULAR DRAINAGE MEETING**  
**Wednesday, January 27, 2020 9:30 AM**

**This meeting was held electronically and in-person due to Covid-19 concerns.**

1/27/2021 - Minutes

1. Open Meeting  
Hardin County Drainage Chairperson BJ Hoffman opened the meeting. Also present were Trustee Renee McClellan; Trustee Lance Granzow; Lee Gallentine of Clapsaddle-Garber Associates (CGA); Taylor Roll, Mayor of Radcliffe; Michael Pearce, Network Specialist; and Denise Smith, Drainage Clerk.
2. Approve Agenda  
Motion by McClellan to approve the agenda. Second by Granzow. All ayes. Motion carried.
3. Approve Minutes  
Motion by Granzow to approve the minutes Drainage Meeting dated 01-13-2021. All ayes. Motion carried.
4. DD 143 WO 241 - Discuss W Possible Action - Tree Removal

Mayor of Radcliffe Taylor Roll met with Chuck Raska, City Manager, and together they made their list of trees that have been removed, Roll referenced the map with Raska, and for sure 11 of the 89 have been removed this year. Roll stated there are two question marks on the rental property between May and Isabella, they could not see anything being there and Raska did not remember anything being there, but they could be under snow right now, so they left question marks on that one for now, so it might be 13 that are gone now. So far they have 5 of the 78 remaining on the list that they for sure want to do next year, we want to do some of the smaller stuff too, but with the City's budget we can only afford to do a couple of the big trees a year. Roll stated he did not think they would do anything outside those five, but we will take some of the little ones you can just cut with a chainsaw by yourself. Roll wanted to let the Trustees know progress is being made, if the Trustees want anything else done, let Roll know and they will see what they can put together, Roll stated we are only working within the right of way, if anything is outside the right of way we will have to talk to the landowners first. Granzow stated maybe that would be something you could send out to everybody in a letter, Hoffman stated or put it on the water bill. Granzow stated if there are trees, they want gone, now is the time to do it. Roll agreed and stated if we can get anyone to agree before we have to start pushing harder. Granzow stated you might get a few trees down, it is your town that it benefits, you may have a few scrap trees out of the right of way that people may want down, that they just down have the means to get down on their own. Roll stated he felt they needed to talk to each person and just keep moving forward.

Hoffman asked if Smith would put the list of trees with the district record, Smith stated she would.

5. DD's Big 4, 41, 77, 123 & 143 - Discuss W Possible Action - Pay Estimate #6

Smith stated we had addressed the Claims for Crop damages on this project, but we did not circle back to the Pay Estimate # 6, which covered those 4 districts, and does not include DD 128, Smith didn't know if there was any action the Trustees wanted to take on the Pay Estimate #6 at this time. McClellan asked for clarification on DD 128. Smith stated we were waiting on confirmation from Gallentine on completion of some work in Dean Bright's land on DD 128, so this Pay Estimate # 6 does not include any payment for DD 128, it would only include DD 143, 123, 77, 41, and Big 4, so that DD 128 would be handled in a separate final pay estimate. Granzow stated have we done the other ones yet. Smith stated we addressed the crop damages, but we didn't get a motion on whether the Trustees would like to authorize payment on the Pay Estimate. Granzow asked for Gallentine's thoughts, Granzow thought Gallentine was going to contact Bright on this, Smith stated we are waiting on a response from Gallentine on Bright on DD 128, since this Pay Estimate only included the other districts she was not sure if the Trustees wanted to authorize payment on this portion, or if they want to hold off, Smith just needs some clarity. Gallentine stated this does not involve DD 128, DD 128 is involved in this project but is not included on this Pay Estimate, this would be for DD 143, 123, 77, 41, and Big 4. Gallentine stated we are still holding retainage for DD 128. Granzow asked if we have any issues with this Pay Estimate. Gallentine stated he had no issues with it and did not think that Smith received any contact back from landowners.

Smith stated she had not heard anything back from landowners, Smith had sent a mailing out to landowners along with the crop damage claims requesting landowner feedback, the only response we had was from Chris Blome who had submitted his claim originally back in 2018.



Motion by Granzow to approve and issue payment on Pay Estimate # 6 for DD's Big 4, 41, 77, 123 & 143. Second by McClellan. All ayes. Motion carried.

Smith stated she will include that with next week's claims.

6. DD H-F 4-53 - Discuss W Possible Action - Joint County Meeting

Smith stated she had received dates back from Franklin County so that we might have a joint County meeting with their Trustees to discuss the two work orders, which actually amounted to one work order on our side and the one work order on the Franklin County side. The Franklin County Trustees are available on Mondays and the dates their Clerk provided us with are February 8th, 9:30 or after; February 22nd, 10:00 am or after; or we could look at March 8th, 22nd, or 29th after 9:30 am. Hoffman preferred February 8, 2021 at 9:30. Smith will reach out for confirmation to Franklin County at 9:30 on February 8th. McClellan stated at 9:30 she has a schedule conflict, possibly running until 10:30 am till noon. Granzow stated the next Mondays would not work for McClellan in the mornings then either, Smith stated she could check afternoon availability and let the Trustee know. Hoffman stated let's tentatively schedule it for February 8th at noon. Smith asked of Gallentine's availability, Gallentine stated yes, he would be available the 8th at noon, he usually keeps Mondays open as that is when Franklin County meets. Smith will get confirmation and let all know.

7. Discuss W Possible Action - IDDA Membership

Smith received numbers back from John Torbert of IDDA, we had discussed that they reported us as 168,000 acres, Smith did some checking on that 110,000 that Schlemme had stated at the time that we have in Drainage does not include Private Trustee districts, that was a question the Trustees had for me. Smith stated Torbert's revised numbers for membership would be membership would be \$3,300, if you also wanted the optional Mutual Protection Fund that would be \$1,375 in addition to the \$3,300. Granzow asked what the Mutual Protection Fund does, Smith stated the Mutual Protection Fund exists to protect drainage rights in the courts, recently that fund raised more than \$300,000 in the successful legal effort to stave off the Des Moines Waterworks lawsuit. Smith stated as a Member County you would potentially have access to those funds should the need arise, disposition of those funds is decided by the IDDA Board, several years ago IDDA also published a Drainage Law Book that would be free to members. Hoffman asked if we would get a seat on that Board then, Smith does not know and would have to find out. Hoffman asked Gallentine if he was aware of how that worked. Gallentine asked Gallentine for info on how that works. Gallentine stated he believed you become members of the groups and have internal Board of Directors; you are eligible to become a member of that or be on that. Hoffman stated if we were to become members of both the cost would be \$4,675.00, Smith stated that is correct.

Granzow stated the problem he has, is the mutual protection fund, if they decide it is worth defending so their board is what decides. Hoffman stated it is a lot like Heartland. McClellan stated they don't pay for everything that happens; a Board decides what will affect all the districts. Granzow stated so if there is a windmill issue, that is your problem, not ours, it is your problem and you are on your own, even though you have the fund protection. McClellan stated it can also be where they figure how many more counties it will affect. Hoffman stated or how it sets precedence. Granzow stated he did think it was worth a vote and was on the agenda as Possible Action, Hoffman would entertain a motion and we could discuss it more.

McClellan made a motion to pay the IDDA membership dues of \$3,300 annually and the \$1,375 Mutual Protection Fund dues annually. Second by Granzow.

In additional discussion on the motion, Granzow stated it will be paid out of Rural Services to be reimbursed back and asked if that was correct. Hoffman stated that is what he had hoped the discussion would be. Granzow stated other than that we don't have a fund to pay it out of, how would you like to pay it out of Rural Services fund or General Fund, Granzow personally liked the General Fund because it affects towns and rural. McClellan stated it does because the towns have drainage districts. Granzow stated but we have been charging everything out of the Rural Services fund up until this point, in hopes we would do a mass billing to help fund this. McClellan stated but Rural Services does pay General Fund taxes, Granzow stated they are 63% of the General Fund, yes, Granzow thinks it should be General Fund but was trying to keep the books even, the Districts should pay for it because it is their portion, it is not taxes. Hoffman stated going forward with the mass Drainage District assessment it will be easier to do, we can pay it the one time out of Rural Services. McClellan stated then it would be reimbursed, and the Clerk keeps track of what she has paid out and add it to the assessment and we can reimburse whatever fund it gets paid out of. McClellan asked it has come up before and was just mentioned, this does not cover the Private Drainage Trustee districts. Granzow stated a letter can be sent out to them and they can decide. Smith stated that may affect your membership costs if we include the acres from the Private Trustee Districts, or that may be something we address individually with them that they can be invoiced for their own membership in that, that may be a good option, that way they are paying for it out of their own district fund, Smith does not know if there would be any disparity there if that was a level playing field if we are paying for all of the other districts our Rural or General Fund. Granzow stated we plan on paying it back through the districts we assess. McClellan asked so we

are not going to worry about those, we try to get districts to be their own Trustees. Hoffman stated they can join and pay their own dues and have their own membership. McClellan agreed.

McClellan stated we certainly want them to know about it. Smith stated she could send a letter out. McClellan stated we are always trying to get districts to be their own Trustees but when we do something that only covers the ones we are Trustees for why would they ever leave if they will not be covered under what we pay for. Smith stated if it is assessed back to the districts, we can make those Private Trustees aware of the option, let them know we can facilitate that kind of communication with the IDDA and it would be charged to them out of their district funds, Smith thinks that is an option, if you look at their acreage it will be much less than the total of the Board of Supervisor managed districts, so it might be a much more affordable option for them. McClellan stated it should always be kept separate even if they do decide to join because what if they get a new set of Trustees, and they say no we don't want to join, then you have to pull them back out of the larger assessment, so always keep them separate unless they disband and the county takes them over. Granzow stated we are only approving for what we are responsible for, they are more than welcome to join on their own. McClellan stated she felt a letter should be sent, Granzow stated he would send a letter right away, and asked if we send out letters congratulating the Private Trustees on their elections. Smith stated the Drainage Trustees post-election packet will go out this week with their certificates, letter of congratulations and welcome aboard.

All ayes. Motion carried.

Smith asked for clarification on which code this should be billed out of, Rural Services or General Fund. Granzow stated which is simpler, Smith stated whichever the Trustees prefer. Granzow stated out of Rural Services, Hoffman stated once this rolling mass assessment goes out it will be easier to take out of that fund.

#### 8. Discuss W Possible Action - Drainage Assessment Project

Smith stated attached to their agendas today there is a draft of some notices Smith has drawn up for this mass potential assessment. Smith stated this is a sample that she wanted the Trustees to look over, the letter would be titled to All Hardin County Drainage District Landowners, this would be a letter that goes out with their assessment notices with their individual amounts, the Notice of Assessment is what Smith has put together for publication. Smith has tried to follow the same notification or publication formats that we have used in the past, but this is just a sample for when this time comes or determine when you would like to do publication. Smith stated once the Trustees have reviewed this, her next question is that at some point in this conversation maybe we need to include the Treasurer's Office, because if Smith is the one that generates this assessment, and we send out 7,000 sheets of assessment notices, unfortunately the Treasurer's office is going to have to process those payments. Smith wants the Treasurer to have the opportunity to ask any questions before this is finally implemented and we draw or draft that final motion to implement the plan. McClellan stated that would be a good idea, Smith stated she does not want to give anyone any surprises at all, that would be unfair.

Granzow asked how much are we assessing. Smith stated the Trustees have talked about \$1,500 and Smith has not filled in the final amount on the notices, just highlighted the areas those numbers would be inserted in and the assessment date. McClellan asked we are talking about \$1,500 split among all of them, Granzow asked if that was \$1,500 per parcel, Smith stated that would be \$1,500 per district. Granzow asked if that would be not to exceed \$500 per parcel, McClellan stated if someone has that much ground and they would get an assessment of \$500 or more; they could get a waiver. Smith stated that would only happen in a very small district, if you have a very small number of landowners at that \$1,500 there is a very small possibility that one or two could have a payment of more than \$500. Granzow asked how we determine the \$500 per parcel, Smith stated if their assessment schedule breaks them out that way, Granzow stated that would be a district where there are only 3 large landowners, Smith stated or if their percentage were that large, it would all be based on their percentage in their classification schedule. Granzow stated that would be a 40-acre district, if we have one that small maybe we need to get rid of it. Smith stated chances are you will see more on the other end of the spectrum, there is a line here that states any assessment made on a parcel that is computed at less than \$5.00, will be fixed at a \$5 minimum, because that is the lowest amount that we can charge, Smith stated you will probably see more of those \$5.00 charges than anything else.

Smith stated if this is something you would like to review, and Smith can see if the Treasurer is available, and agenda this next week, that would be a great opportunity for her to be involved in this discussion. McClellan stated we should talk with the Treasurer before we go further, Granzow stated we can call her and find out, Granzow invited the Treasurer to the Meeting. Treasurer Machel Eichmeier joined the meeting. Granzow explained the Trustees are considering a mass assessment on all the Drainage Districts as it is unfair that the Rural Services or the General Fund pays for only the costs of the Drainage Districts, like attorney fees, special assessments we do that we are constantly paying for, we are considering do a mass assessment of \$1,500 per district. McClellan stated if we add the IDDA dues, would that cover it at \$1,500, Granzow stated that would still fit in there. Granzow stated the question was this was what was presented, and we wanted the Treasurer in on the ground floor with us

also. Granzow stated looking at this is there anything you would try to do differently because the Trustees want to work with the Treasurer's Office as well, it will be a lot of work, but it is not right to charge someone in Eldora Drainage fees when they don't have drainage, this is the Trustee's district, not the County's district. Granzow stated we have been working on this for years but are just getting closer.

Eichmeier asked for clarification on which districts would be assessed – all the districts that are County controlled or all districts that are County Trustee managed and Private Trustee managed. McClellan stated just the County Trustee managed districts, not the private Trustee districts. Eichmeier stated so you will be assessing every parcel within the County Trustee managed districts, Granzow stated yes, Eichmeier asked what amount they were assessing. Granzow stated we would be assessing each district \$1,500. Eichmeier asked what these fees would be used for. Granzow stated for prime example, some would be used for the Drainage Clerk's salary, her job is 90% district, so we could use it for her salary, we have a lot of legal fees, we just joined the Iowa Drainage District Association, those are the fees that would be paid for with this. Eichmeier asked if this would be an annual fee. Hoffman stated every three years. Smith stated the Trustees looked at doing a rotation and what she came up with was a list of all the drainage districts not managed by private Trustees, which is 153 districts. Smith stated in her mind, to assess 153 districts in one year would be a gargantuan task, Smith suggested we split that up into a rolling rotation for three years, and then they can implement this for three years and see how it works. Smith stated we can split the 153 districts into groups of 51, the first year we will assess the first 51, the second year it will be the second group of 51 districts and the third year will be the final group of 51 districts. Smith stated if the Trustees approve this for a three year run, they can see how it works, they can see if they have assessed for enough funding to cover what they would like to cover or if they need to change the amount, if the Board members should change, it would allow a new Board to take action on that if it would sunset after three years.

Eichmeier stated when you collect that fee you will have to structure that drainage payment to go to a new account code, Smith stated that is probably something we will have to involve Tyler with, because Smith does not know how to set that up in Tyler. Smith stated it is a big task, and in discussion Smith had said to the Trustees, her concern was that if we were doing that this year, we have an election in March, we have an office member who will be out on medical leave, we have a brand new Auditor, the thought process and discussion was that this would begin to be assessed in 2022, so we would have some time ahead of time to figure out what structure this would look like. Eichmeier stated to get everything prepared and have it done by September of 2021 is not going to happen, Smith stated we should have started 6 months ago. Smith stated she thinks the way Tyler is set up Drainage assessments have to go out in May, with first portion of taxes, Smith does not think Tyler is set up to send them out in September, from what Smith has read, everything goes out in May, Smith asked if that sounded correct. Eichmeier stated there has been some discussion about that, it goes out in May, payments are due by September, that is our County, Eichmeier does not know of any other County gives them that much time to pay, other Counties send them out in May and give them 30 days to pay that bill. Smith stated we have 30 days within which a landowner can sign up for a waiver, within 30 days of receipt of the notice they have to let us know they want a waiver. Smith thinks it is by Iowa Drainage Code that they have until September to make the payment on an assessment, Smith can look that up and provide that information. Eichmeier stated here in Hardin County we bill them in May and they have all this time until they have to pay in September, Eichmeier stated she does not know how you figure the right amount to be able to have them outstanding that long. Smith stated she did not know that, and that may be a conversation between the Drainage Clerk and Treasurer and bring that back to the Trustees that we need to change our due date to a 30 day limit on it, that may be just a policy change on it if it is just a policy. Eichmeier stated that may need to be a conversation you need to have with other Clerks, as Eichmeier has always thought it strange that we mail in May and dead line was September 15th, Eichmeier stated if this is something you can do, you may have already checked that out. Smith stated we have and under Iowa Code Section that we mention in the notice, Section 468.154 allows for additional help for the Auditor allows for administrative costs to be paid for by the district and Section 468.155 allows for legal costs to be paid by the districts. Smith stated she thought that those two Code Sections allows this to be done. Smith spoke with Wright County, at one time they did it this way and they switched away from because it was too much work to do all districts in one year, so they went with every time there was a notice or a letter sent out they would do a minimum assessment of \$5 and charge that to the whole district when the project was completed and they added that to their annual assessment, Smith stated that is what she thought they found to be a simpler assessment process.

Smith stated have the Treasurer in on this conversation was important, because Smith is concerned about generating the assessments in a timely manner, making sure Smith can get 51 districts out, and on the same end Smith has to make sure that the Treasurer is aware that if these notices go out, they will come back to the Treasurer's office for payment, and that means additional time for their staff to process those as well. Eichmeier stated how many parcels would it be for 51 districts. Smith stated all together we are looking at 153 districts with 7,700+ parcels, so that is quite a bit of work. During this discussion the Trustees had a sidebar discussion on same topic.

Granzow asked how many parcels in all, Smith stated 7,700 plus, when we had the private Trustee districts included with this, it was really close to 11,100 parcels because DD 3 is huge, those would include all those

parcels, and we are not the managers of the Private Trustee Districts or some of the joint districts managed by other Counties, by removing those it cuts it down to about 7,700. Eichmeier stated you are going to charge even the people that haven't had any assessments, or you haven't had to deal with their district, you are going to charge them. Granzow stated we (Trustees) deal with them whether they think we do or not, they get the free legal advice right now, prime example is ditches, ditches are not supposed to be taxed and we have fought with the Assessor for taking them off the tax roll, because the open ditch should not be taxed, so when you say an open ditch, are they getting this, yes they are, all ditches get assessed every three years because we spray them, so they are getting some activity. Granzow stated some of these districts may not get any activity but they will, when we talk about windmills coming in, we have a large amount of money wrapped up in that for no matter whose district it is for those legal fees, because one for all and all for one. Granzow stated when we deal with policy it is for every district, attorney Mike Richards does work for them. Hoffman pointed out publications is a cost that is for all. Granzow stated they are getting work done, they just aren't physically having anything done in the ground, we have Rural Services paying that bill now and that is not right. Hoffman stated the district in Radcliffe that encompasses a large portion of Radcliffe, those people are getting everything for free, Granzow stated also New Providence, Buckeye, Iowa Falls. Gallentine stated there is one in Alden also. Granzow stated it is not right for rural services to have to pay that bill that is why we have been working on this, Granzow stated that he has been working on this since he came in, it doesn't make sense because drainage is not County it is its own assessment.

Eichmeier stated she thought the Drainage Districts got charged whatever had to be done in that ditch, is it just the work that gets charged. Smith stated when we assessed a drainage district for work done in that district, we assess about \$3,000 over the project costs so that they have a sinking fund should they have any additional invoices trickle in after work is completed. Granzow stated that all the work Smith, Schlemme, and previous clerks have ever done have been charged to Rural Services, the Clerk's salary is charged to Rural Services, this job is Drainage, why is Drainage not paying some of this salary. Granzow explained it should be charged to the districts. McClellan stated County tax dollars are paying the attorney fees for drainage districts. Eichmeier asked if the Clerk's salary was paid out of the Auditor's budget, Granzow stated yes out of Rural Services through the Auditor's budget currently, that is not right either, her salary should be based on a percentage of what district work she does versus county work she does and should be reimbursed back because she is a Clerk for all districts, Private Trustee or County Trustee, she is still the Clerk for all of us. Smith stated the only difference between the Private Trustee districts and the districts the County Trustees manage is the Supervisors as Trustees can direct me to do an assessment on all the districts the County Trustees manage, if we want to talk about doing an assessment on all the districts you manage, if we want to talk about doing an assessment on the Private Trustee districts, those Private Trustees would need to make a motion to direct me to do that. Smith stated at some point we have talked in the past about having an all Trustee meeting where they can all come together, whether is virtually online through zoom or something in person at the EOC, maybe that is a discussion that needs to happen, when we talk about sending a letter out to them about IDDA membership, maybe that is a portion of education that needs to happen for those Trustees, sometimes they are just unaware of what goes on when the Board of Supervisors as Trustees manage the rest of the districts.

Granzow stated it is no different than when Eichmeier manages the Treasurer's Office for the work they do for the drainage districts, maybe a percentage of that income should be charged to them as well, Granzow does not know how much of their time it takes. Eichmeier stated drainage is time consuming, Hoffman stated if we knew how much, maybe we can peel off a little bit of that. Granzow stated maybe we can assess that out of your budget so that it is not the County because you are doing it for the Trustees. Granzow some of this just falls back on law and it just comes this way. Eichmeier stated the other thing about the Treasurer's time consuming part of it is the stamped warrants which we are earning interest on, Granzow stated so you do have a revenue. Eichmeier stated yes, she would feel more comfortable about having salary for something we are already doing. Granzow stated because you keep the revenue in your department. Eichmeier stated if we didn't do the stamped warrants part of it is just collection and the behind the scenes stuff that happens to disperse it back to the district, that is just all automatic, where it is not automatic is the certificates and the stamped warrants. McClellan asked how much do we make on that, Eichmeier stated it is 5% but Eichmeier has not had much to recall because there has not been a lot assessed, so we are not paying those stamped warrants, there are still stamped warrants out there from 2016 that have not been paid yet, Eichmeier stated her stamped warrant interest this year was not where Eichmeier thought it was going to be. Eichmeier stated we are getting 5% but we only get 5% when that money comes in to pay those warrants. Smith stated we have books open on a lot of projects right now we are waiting on completion hearings for, that is kind of where we are stuck, which does not help the Treasurer. Eichmeier stated when all that gets done, that will be good, Smith stated that will be on top of the 51 districts we may assess. Smith stated it will be a lot of work for both of us, Eichmeier agreed it would not be a walk in the park.

Granzow stated he would rather do this once and be asked why didn't you do it this way, and have to do it all over again. McClellan stated it would not be just once, it would be 3 years in a row. Eichmeier asked then what are the Trustees thinking. Hoffman stated it would just be a rolling assessment, Eichmeier stated so it would just continue and continue, Granzow stated he doubted the pot would actually build, we are not trying to have a large pot, Granzow has a feeling it will be a continuing thing. Eichmeier asked if each year would be a different figure you will

be assessing. McClellan stated this is a question Granzow has not had a chance to ask as they had a sidebar conversation . Granzow asked how much work would it be to do it by parcels versus districts, McClellan stated you would still have to do it by districts, but assess a fixed amount per parcel rather than \$1,500 per district, because districts are different sizes, Smith does not know if she could do that because their classification is based off of their percentage, Smith stated we could try just charge a flat \$5.00 minimum per parcel, but that would not generate the dollar amount you are looking for. McClellan asked if we knew how many parcels are in each district, Smith stated yes. McClellan stated if we did \$5.00 per parcel for each district, you could come up with how much we would receive for a \$5.00 assessment. Smith stated yes.

Eichmeier stated the code says you can charge a \$5.00 admin fee per parcel, but we don't. Granzow asked if Eichmeier was talking about when we do a project, Granzow thought that was 5%. Eichmeier stated that was \$5.00 per parcel, Granzow stated that was it, \$5.00 per parcel, so you do the work, then where does that money go, the Auditor's Office. Smith stated it would go back to the Drainage District that was assessed. Eichmeier stated the admin fee wouldn't, the admin fee is for the administration. Smith stated that is correct but thought we don't have a way to pull that out right now, Eichmeier stated we do we just don't do that. Eichmeier stated we never charged the \$5.00 admin fee, but when the code changed we could add a \$5.00 admin fee per parcel on anything we assessed, and the Trustees decided at some point in time, we were feeling that if we were sending out \$5 bills for admin fee it was maybe wonky, because you would get the \$5 admin fee whether you would get a \$5 bill or a \$100,000 bill, but that \$100,000 bill may have 20 parcels on it, but then we chose not to do that admin fee. McClellan stated she remembered talking about that years ago. Eichmeier does not know if that would be enough because the Trustees want to assess people that are getting an assessment for work done, but there is another way to generate money to reimburse your administration fee, Granzow stated while you are doing projects though, Eichmeier stated yes while doing projects. McClellan stated we decided not to that when we had a difference in how we handled the drainage warrants, it used to be that someone else bought the warrants but now the County is making the money off of them. Eichmeier stated before we sold those warrants to private individuals to earn that 5% but basically it would be the same work for the Treasurer whether we sold the warrants or we bought them. Gallentine stated before they actually used to go to whomever sent you the bill so they would actually have gone to the contractors and the engineer. Eichmeier stated a lot of those people would sell them and Eichmeier would have to keep track if they sold them to a bank or another individual that wanted them. Gallentine stated most of theirs they kept because they needed the cash for cash flow, but the interest would have been nice.

Granzow stated we did not do the \$5 administration fee per parcel was because although project a is going on we are still getting information for project B for everybody, it is a universal answer, now project B is paying for everybody. Granzow agrees with Eichmeier, it is right that it would have gone back to the Auditor's office and gone back to the fund. Eichmeier stated just like we tack on the special assessments it is an admin fee to come back to the Treasurer's budget to help offset the cost of preparing all those special assessment for the cities. Granzow stated we talked also about the work that goes into it, a small project may take a lot more work than a large project, it could work the other way as well. Eichmeier asked if the Trustees were going to ask the Clerk to figure out the amount assessed each year. McClellan stated we plan on assessing the same amount for the three years, it would not be fair to assess the first year at a lower amount than the following years, Smith stated \$1,500 was the amount the Trustees had previously talked about. Eichmeier asked if the Clerk will have to do a time study to determine how much time she spends on each project, she would spend more time on the time study than the assessment would be worth. Smith stated she has a spreadsheet in Excel that will figure the amount a parcel would pay based on their percentage of drainage benefits, that will give the breakdown for each district, and would be the basis for the assessment notices and that is how that split is determined in Tyler, that information is in Tyler too. Smith stated if we put in a blanket amount of \$1,500, Tyler will generate a notice for each landowner in that district that says the amount they will pay based on their percentage of benefit, you can put in any amount, whether it be an amount for a project or for \$1,500 like this for a potential assessment, it is just as simple to figure for either. Eichmeier asked if there would be a minimum payment, Smith stated yes of \$5, if someone's percentage comes out that their payment would only be \$3, then we will round up to \$5 as that is the minimum we can assess.

Granzow asked if the \$5 minimum assessment was worth it, is it worth our time for \$5 or would it make more sense to up the cost of the assessment. Eichmeier stated your statement, envelope and postage, there is 50 cents for postage. Hoffman stated probably 15 cents for an envelope, Smith stated she had it figured at 7 cents per envelope based on their last invoice, Eichmeier can get them for 5 cents. Granzow asked if we are losing money at a \$5 assessment. Eichmeier stated then the printed tax statement which I son regular paper, but includes your ink, McClellan stated your labor on top of that cost, Eichmeier stated if we look at \$1 to generate that notice and send it out. Smith stated you don't come out ahead unless you are in a large district like a town district that has lots of little parcels that does not have a high percentage rate, if Smith plugs in that \$1,500 number those parcels might actually generate more than \$1,500, those parcels might actually generate more than \$1,500 when you round up to \$5, so there might be some that would generate \$2,000 or \$2,300 depending on area and how many little parcels it has, in the rounding up on average, Smith thinks you would cover your costs, Smith would suggest maybe the \$2,000 assessment than the \$1,500 amount, it might be simpler to put it in the total costs amount.

McClellan stated if we do that and have enough money left, maybe the fourth year we don't need to do that assessment, maybe we skip to the next year. Granzow stated we could do three years in a row and see where we are at. McClellan agreed, maybe if we have enough money we won't assess the fourth year, then we can assess the fifth, sixth and seventh year. Eichmeier stated you can't assess to make money, Granzow stated he is not trying to do a pot builder but the pot we are pulling from is our Rural Services right now and that is not right.

Hoffman stated every time we utilize Mike Richards like we will in a couple hours, Granzow asked how much we have paid out for legal as of right now, Smith stated she would have to pull those invoices, Granzow asked if we are at \$20,000 spent yet, Smith stated you would likely be really close. Granzow stated so right now we have \$20,000 we have spent on legal fees, for not just ours or a single district but all districts. Smith stated we have had Mike Richards look at things for us on the CWECS, Drainage Utility Permit several times, we have had Richards in on a couple of closed session meeting, all of those decisions or opinions that Richards provide affect every district in the County. Granzow agreed they are general opinions. Eichmeier understands where the Trustees are coming from. Hoffman stated we are all sitting here talking about things, Hoffman is almost as impressed by that.

McClellan asked if we now have more people paying the banks directly or paying online for property taxes, is it getting to be a lighter load. Eichmeier stated with Covid, people either mailed it in, paid online or paid at their bank, if they paid at their bank, that is a lot more work for us than if they mailed it in. McClellan asked if they can pay online through the Treasurer's Association. Eichmeier does not want to take that option away because that is a service that a lot of elderly people take advantage of. Hoffman asked if the elderly use the internet. Eichmeier stated no they use the bank, all of our local banks have agreed that if someone brings their property tax stub to the bank, they can deposit it right into our account, it is a lot more work that has to happen, then the bank has to send that stub and the deposit slip to us or fax them to us, then we get them then we have to process them through the system, then when we reconcile that bank statement, if we do a package of 50, 100 or 200 stubs in the bank, then we have to figure out which packet goes with all the entries in the bank statement, because in Tyler it is all one lump sum and on the bank statement, it is all the individual deposits. Eichmeier stated it is a lot more work, as a customer service to the citizens, that is why we leave it there.

Hoffman stated we have been taking five steps forward every week, this collaborating now, do you ladies know where we need to go from here now to move forward. Smith stated we will definitely have to reach out to Tyler to learn how to set up a new general ledger account code to receive this money, Smith stated she can figure out how to generate the assessments to go out but how do we receive that to an account code that is specific to drainage that isn't drainage assessment per district. Eichmeier stated she did not build those accounts within Tyler, that is an Auditor performance. Smith stated she can reach out to Tyler and the Auditor.

Granzow stated he wanted it to work out for the Drainage Clerk and Treasurer, Granzow knows what he wants for a result, Hoffman stated we just have to know how to get there, and by having the people who are in charge of the logistics and operations here. McClellan asked are we assessing to cover her annual wages each year, Granzow stated we talked about, Granzow found out that Rural Services has been paying 100% of the Clerk's salary, Granzow is not happy about that because he knows it was split 50/50, Hoffman stated at one point. Granzow stated it was budgeted to Rural Services only, and Granzow does not think that is fair to the rural people at all, that is just Granzow's personal feelings, and knows we have been on this project since Granzow came in, but we are getting closer to it. McClellan stated that is how things ended up fitting in the budgets and bookkeeping without us knowing. Granzow stated he thought the Clerk's salary should be General Fund anyway. McClellan stated the General Fund was over the 3.5 so obviously things just got moved. Granzow stated there is more money in Rural Services, because we have more room in the levy, everybody pulls from General but 62% of General is rural people, and when Granzow looks at that he thinks the Clerk's salary should have been all General. Eichmeier just assumed the Clerk's salary was General fund, and when Granzow stated it was Rural Services, Eichmeier was surprised. Granzow stated he does not think that is where it should be, and has talked with Auditor Pieters about that, Granzow does not know how she will propose it back through the budget this time but Pieters knows Granzow's feelings on it. Granzow asked if he thought we were still going to charge the County money for the Drainage Clerk's job, yes because it does still fall back to the County but we can take some of the shock away from the General for the people that are actually using this which is the districts, it is their district, not the County's.

McClellan asked Smith how much time do you think you end up doing election stuff, Hoffman stated one year it might be 90/10, one year it might be 70/30, a general or midterm election year could be 70/30. Smith stated yes, and we are starting to see passport applications come back through more regularly than in the past and that is one thing Smith does also. Hoffman stated we have to trust that the Auditor will reflect that. Granzow stated he is fine with even taking 50% away from the General Fund, is Granzow doing this to be a money builder to do that, no, Granzow stated he is doing this because he believes is right, that the work the Clerk does in this meeting right here is not the Rural or General Services expense, it is drainage's expense, Granzow stated that is how he feels and he knows half of the County will get charged for it, that is who the Drainage Clerk works for not the other half. Granzow can't answer the question of how we will do this, but know we need to take these bills first and handle them, and work with everything else accordingly, that is what Granzow would go with.



The Trustees thanked Eichmeier for coming down to the meeting. Granzow asked Eichmeier if she feels something else needs to be changed on the notices. Hoffman stated Smith can add this project to the agenda next week, and anytime Smith would like to add this to the agenda, please do. Smith stated she can have Eichmeier go over the drafts of notice provided to Eichmeier and we can go over any changes that need to be made next week, Smith stated Eichmeier has for more experience in this and will rely on her judgement. Eichmeier stated she has experience on her side of this, Smith stated she does, and looks forward to Eichmeier's thoughts on this. Granzow does not want to tell them to do something we can't do or could have been done more easily had we told you something else. Eichmeier asked of any other counties are doing this. Granzow stated all the other counties that we have talked to have opted out of this, they charge a percent on to a bill, so if you have a large project they charge 5% and they put that money with that district, it is supposed to stay with that district, that is not right either. Smith stated some Counties charge a fee for every letter, mailing or meeting notice they send out and they will invoice a district for that. Granzow stated looking at all the options, Schlemme had shared them with Granzow a while back, looking at all the options presented none of them are fair, this seems like the most work, once it is constructed, Granzow thinks it will back off a little bit, Granzow personally thinks this is the best way. McClellan stated she thinks this is the most fair, whether it is \$5 or \$10 per parcel, so that way everybody is paying the same, Smith stated if you want her to look at those numbers what that would generate rather than a \$1,500 fixed amount, Smith can provide you with an amount it generate at a \$5 per parcel fixed amount or a \$10 per parcel fixed amount if the Trustees would like to see those numbers, Granzow would like to see them.

Eichmeier asked if we did a \$1,500 assessment in that district, how would that be split out. Smith stated their classification schedule would split that out by the percent of benefit. Granzow stated if you have 1,000 parcels versus 10,000 parcels your assessed value back to the people would still be assessed back to their schedule but the dollar for the district would be different because the parcels are smaller, or you have more area paying, Granzow does not know which is right, he would like to see it both ways. McClellan stated in a big district it might only come out to be \$3 a parcel, but you would be assessing for the \$5 minimum, the ones in the small district will pay more because they are in a small district. Granzow stated it could encourage them not to be a district anymore, some of these districts are small enough. Eichmeier thanked the Trustees for including her and will review the assessment notice drafts and get back to the Trustees on this. The Trustees thanked Eichmeier.

9. Approve Minutes

Smith stated this was a typo, and appeared earlier in the agenda as Item # 3.

10. Other Business

Drainage Utility Permit - Smith stated we received an invoice from Davis Brown Law for attendance of a closed session meeting and revision of the Drainage Utility Permit, Smith would like clarification on how the Trustees would like this invoice paid, Granzow stated through rural services.

Motion by Granzow to approve payment of the Davis Brown Law invoice through Rural Services. Second by McClellan. All ayes. Motion carried.

11. Adjourn Meeting

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



# Hardin County

Drainage Claims with Pay Date of 2/12/2021

| Description                                  | Vendor                  | Amount   |
|--|-------------------------|----------|
| DD 146 WO 228 - ENG SVCS 12/26/20 - 1/29/21  | Clapsaddle-Garber Assoc | 404.30   |
| DD 9 WO 229 - ENG SVCS 12/26/20 - 01/29/21   | Clapsaddle-Garber Assoc | 1,528.50 |
| DD 20 WO 302 - ENG SVCS 12/26/20 - 01/29/21  | Clapsaddle-Garber Assoc | 630.30   |
| DD 25 WO 1 - ENG SVCS 12/26/20 - 01/29/21    | Clapsaddle-Garber Assoc | 631.65   |
| DD 42 WO 297 - ENG SVCS 12/26/20 - 01/29/21  | Clapsaddle-Garber Assoc | 1,059.50 |
| DD 55-3 WO 251 - ENG SVCS 3/27/20 - 1/29/21  | Clapsaddle-Garber Assoc | 195.00   |
| DD 56 WO 3 - ENG SVCS 09/25/20 - 01/29/21    | Clapsaddle-Garber Assoc | 1,771.60 |
| DD 143 WO 261 - ENG SVCS 05/30/20 - 01/29/21 | Clapsaddle-Garber Assoc | 239.00   |
| DD 143 WO 305 - ENG SVCS 12/26/20 - 01/29/21 | Clapsaddle-Garber Assoc | 526.40   |
| DD 167 WO 260 - ENG SVCS 12/26/20 - 02/04/21 | Clapsaddle-Garber Assoc | 1,229.30 |

**Total Regular Payables:** 404.30  
**Total Stamped Warrants:** 7,811.25





# Drainage Utility Permit Application Hardin County

**Applicant:** Heart of Iowa Communication Coop - Jay Duncan

**Contact Email:** jduncan@heartofiowa.coop

**Contact Phone:** (641) 486-2211

**Utility Type:** N/A - Utility Permits Only

**Drainage District:** DDs\DD ~~44~~ (51069)

**Description of Work:** DDs ~~44, 62, 1, 128, 78, 63, 8, 93 & 94~~ - Heart of Iowa - Install fiber optic cable in rural areas of Eldora & Steamboat Rock. Will work with CGA on facility crossings.


Pursuant to Code of Iowa Section 468.186, approval is hereby requested for the right, privilege and authority to construct, operate and maintain utilities on, over, across or beneath established Hardin County Drainage Districts, subject to the attached Requirements for Construction On, Over, Across or Beneath Established Drainage Districts. Failure to comply with said requirements shall be ground for revocation of the permit by the Hardin County Board of Supervisors.

\_\_\_\_\_  
**Applicant Signature** \_\_\_\_\_ **Date**

**Submit Form and Location Plan 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  
 drainage@hardincountyia.gov

*For Office Use Only*

**Application Approval:**

By:  Date: 6-7-2020

Board of Supervisor Chairman, Acting as Drainage District Trustee

**APPROVED PERMIT #** 2020-12

Application in TCM  
 GIS Annotation  
 Approval Emailed





# HARDIN COUNTY

1215 EDGINGTON AVE., SUITE 1  
ELDORA, IA 50627  
(641) 939-8108

## REQUIREMENTS FOR CONSTRUCTION ON, OVER, ACROSS OR BENEATH ESTABLISHED DRAINAGE DISTRICT

Upon issuance of a permit for utilities on, over, across or beneath established Hardin County Drainage Districts, the applicant shall be governed by these requirements and shall comply with all conditions contained herein.

1. The Applicant shall furnish the Drainage District, or its representative, plats showing the exact location of the proposed construction. If it is found that such locations are in conflict with the present or proposed facilities and that a more desirable location is possible, the Applicant shall review such possible alignment changes. **No construction is to commence with the drainage facility without an approved application.**
2. Applicant shall comply with Iowa One-Call requirements prior to commencing any work.
3. The Drainage District shall provide Applicant access to maps or other information regarding the location of all known drainage district facilities so that reasonable care may be taken by Applicant to avoid un-necessary damage to said drainage district facilities.
4. The Applicant shall hold the Drainage District harmless from any damage that may result to the Drainage District facility because of the construction or maintenance of the utility, and shall reimburse the Drainage District for any expenditures that the Drainage District may have to make on said Drainage District facilities resulting from Applicant's construction and installation of utilities, or their subsequent repair or modification.
5. The Applicant shall take all reasonable precaution during the construction of said utility to protect and safeguard the lives and property of the public and adjacent property owners and shall hold the Drainage District harmless from any damages or losses that may be sustained by adjacent property owners on account of such construction operations. Further, Applicant agrees to replace, repair or reimburse all damages to private property occasioned by Applicant's installation of subsequent modification or repairs.
6. The Drainage District assumes no responsibility for damages to the Applicants property occasioned by any construction or maintenance operation of said Drainage District facilities, subsequent to Applicants installation.
7. A copy of a certificate of insurance naming the County/Drainage District as additional insured for their permit work shall be provided to the County Auditor prior to installation. The limit of liability under the insurance policy shall not be less than \$1,000,000 per occurrence.
8. The Applicant agrees to give the Drainage District twenty-four (24) hours (Saturday and Sunday excluded) notice of its intention to commence construction on any lands within the jurisdiction of the Drainage District. Said notice shall be made in writing to the County Auditor or to the designated Drainage District representative.
9. The Applicant agrees to place permanent, visible markers or monuments at locations where utility crosses Drainage District facilities. These monuments or markers shall identify the owners name, address and phone number.
10. The Drainage District Trustees may appoint a representative to inspect and approve all construction across Drainage District facilities as part of this permit. All compensation, wages, mileage and other expenses for this representative will be paid by the Applicant. It will be the responsibility of the Applicant to make all contacts with private parties (adjacent owners/operators) to determine the location of private drainage facilities. Said representative will also inspect all crossing of Drainage District facilities and may, if required, observe the crossing of private drainage facilities, and shall have the authority to require the Applicant to excavate and expose the crossing of any Drainage District facility where the representative believes it prudent to visually examine Applicants crossing of the Drainage District facility. Further, said representative has the authority to suspend construction and installation by the Applicant within any Drainage District jurisdiction by verbal order to the contractor at the site and a telephone call to Applicants contact person listed on page 1 within six (6) hours of the verbal order.



# HARDIN COUNTY

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11. The construction and maintenance of Applicants installation shall be carried on in such a manner as to not interfere with or interrupt the function of said Drainage District facilities without the express written consent of the Drainage District Representative. In the event it becomes necessary to temporarily stop the flow of water, the following shall be completed by the Applicant:
  - a. If the crossing involves a tile line, the replacement of tile with approved materials, in the manner approved by the Drainage Districts designated representative, shall be performed as rapidly as possible. If the approved method of repair is impossible and the volume of water flowing in the tile is sufficient to create the possibility of crop loss or property damage, the Contractor will be permitted to temporarily block the tile line to prevent the flow of this tile water into the pipeline, or tile line ditch. In the event this tile line is so temporarily blocked, the Contractor will be expected to provide sufficient pumping equipment to pump the impounded tile water across the construction ditch to the undisturbed tile line. Such temporary blockages of said Drainage District tile lines will be removed as rapidly as possible and any tile repairs caused by this blockage will be immediately repaired at the Applicants expense.
  - b. If the crossing involves an open ditch that is carrying sufficient flow of water to make it necessary to place a temporary dam across said open ditch, such temporary dams may be constructed only upon approval from the Drainage District designated representative. The maximum elevation of this impounded water shall be determined by the designated Drainage District representative and all excess water must be allowed to flow across the construction ditch through either a closed metal culvert pipe or by pumping. All temporary dam structures are to be removed as soon as the crossing is completed. The construction and removal of these dams shall be in such a manner that the smooth and efficient function of the drainage ditch is not impaired, with all costs and damages borne by Applicant.
12. The Applicant will at any time subsequent to the commencement of construction, and at Applicants sole expense, reconstruct or replace its installation as may be necessary to conform to new grade or alignments resulting from maintenance or construction operations by the Drainage District in connection with any of its drainage facilities. Applicant agrees to do this within forty-five (45) days of receipt of written request from the Drainage District, or such longer time period as the Drainage District may specify, without cost to the Drainage District. Such reconstruction or realignment of Applicants improvements shall be made in accordance with and approved by the Drainage District or its designated representative. If the Applicant is unable to comply within the time period specified above, the Drainage District may cause the work to be done and the Applicant will pay the cost thereof upon receipt of a statement of such costs.
13. CROSSING OF OPEN DITCH FACILITIES. Utility crossings shall be constructed as follows, as directed by the designated representative of the Drainage District:
  - a. Passage of installation in a horizontal plane five feet (5') below design grade of drainage ditch, as established by the Drainage District representative.
  - b. The above depth to extend to a point two (2) times the design base width of ditch either side of centerline of drainage ditch (measured along the centerline of utility) unless the existing base width is greater than the design bases width. If the existing base width is greater than the design with, the depth is to extend to a point two (2) times the existing width.
  - c. The rate of slope for transition from normal utility laying depth of crossings of drainage ditches shall not be steeper than 4:1.
  - d. If such ditch crossings occur at points of outlets of Drainage District or private tile lines or within twenty-five feet (25') of said outlets, such outlets must be relocated to a point not less than twenty-five feet (25') from such crossings. Such relocations shall be at the expense of the Applicant and as directed by the representative of the Drainage District.



# HARDIN COUNTY

1215 EDGINGTON AVE., SUITE 1  
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14. **CROSSING OF DRAINAGE DISTRICT TILE LINES.** Utility crossings shall be constructed as follows, as directed by the designated representative of the Drainage District:
- a. All proposed installations must be placed under the existing Drainage District tile lines. These requirements may be waived only upon the review by and approval of the designated representative of the Drainage District. Such waiver must be in writing.
  - b. A minimum of one foot (1') clearance below existing Drainage District facilities must be maintained.
  - c. At all crossings of Drainage District tile lines with the proposed utility, one of the following must be used:
    - i. Replace Drainage District tile with reinforced concrete pipe of same or larger diameter than existing tile. Concrete pipe to be 2,000 D strength (Iowa Department of Transportation approved) with standard tongue and groove joints. Pipe to have a minimum of three (3) bolt-type connectors at each joint.
    - ii. Replace Drainage District tile with cathodic protected corrugated metal pipe. Diameter of corrugated metal pipe to be a minimum of two inches (2") larger than outside diameter of tile line being replaced. (Specifications regarding gage, cathodic protection and other details to be subject to review and approval.)
    - iii. Dual wall plastic with specific approval of Drainage District representative.
    - iv. Bore new utility installation; maintain existing tile in an undisturbed state.
  - d. The length of tile to be replaced by any of the above alternates is as follows:
    - i. Eight-inch (8") tile and smaller: Six feet (6') either side of centerline of proposed installation, measured at right angles to the centerline of installation.
    - ii. Ten inch (10") tile and larger: Ten feet (10') either side of centerline of proposed installation, measured at right angles to the centerline of installation.
  - e. At all crossings of Drainage District tile lines where the Drainage District and private tile lines are damaged by the construction, maintenance or repair of Applicants installation shall be repaired as directed by the Drainage Districts designated representative.
15. This permit is subject to existing regulations and statutes of the State of Iowa and future regulations, which may be promulgated or enacted.
16. This application is subject to revocation by Hardin County, if in its judgment it is necessary for legitimate purposes. In such event, written notice shall be provided to permit holder.
17. Applicant agrees to pay all other legitimate costs, fees and expenses associated with its crossing of the Drainage District facility, including but not limited to, publication costs, engineering costs and legal service costs. Said costs will be paid within thirty (30) days of the mailing of the statements to the Applicant.
18. Applicant agrees to provide a copy of as-built plan of the utility route and location, showing route changes that may have taken place during construction.
19. Applicant agrees to include a copy of these requirements to all bidding specifications; or if the construction and installation contract has been let by the time this permit is approved, Applicant agrees to provide a copy of these requirements to the contractor and to advise them that they are bound by the terms of these requirements.







Utility Permit #2020-12

**Utility Observation Report**

| <b>General Information</b>                                 |                            |
|--|----------------------------|
| <b>Project Name and Number:</b>                            | Utility Crossing<br>6935.5 |
| <b>Drainage District Number:</b>                           | #128                       |
| <b>Drainage District Facility ID:</b>                      | Laterals 1 & 3             |
| <b>Project Location:<br/>(1/4, Sec, Twp, Rng and road)</b> | NW 25-88-20                |
| <b>Date of Observation:</b>                                | 10-21 & 10-29-2020         |
| <b>Observer Name/Title:</b>                                | Chris Sweeney              |

| <b>Field Observations</b>   |   |
|---|---|
| <b>District facility type:</b>  | <input checked="" type="checkbox"/> Tile <input type="checkbox"/> Open Ditch<br>Other:  |
| <b>Utility Orientation:</b>   | <input type="checkbox"/> Parallel <input checked="" type="checkbox"/> Crossing <input type="checkbox"/> Overhead<br><input type="checkbox"/> Over <input checked="" type="checkbox"/> Under <input type="checkbox"/> Same Elevation<br>Other: |
| <b>Source of utility elevation and/or location:</b>   | <input type="checkbox"/> Probed <input type="checkbox"/> Exposed <input checked="" type="checkbox"/> Utility Reported<br>Other:   |
| <b>Utility Elevation:</b>   | Lat 3: 1092.4'  |
| <b>Source of district facility elevation and/or location:</b>   | <input type="checkbox"/> Probed <input checked="" type="checkbox"/> Exposed <input type="checkbox"/> Utility Reported<br>Other:   |
| <b>District Facility Elevation:<br/>(include where measured)</b>  | Lat 3: 1099.1' (Flowline)   |
| <b>Vertical clearance from district facility:<br/>(must be greater than 1-foot for tile, and 5-feet for designed open ditch bottom)</b> | Lat 3: 6.7'   |



Utility Permit #2020-12

|  |  |
|--|--|
| <b>Horizontal clearance from District Tile or Open Ditch centerline:</b> | NA   |
| <b>Tile outlets within 25-feet relocated? (If applicable)</b>            | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A   |
| <b>Original tile size &amp; material:</b>                                | <input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> SW HDPE<br><input type="checkbox"/> DW HDPE <input checked="" type="checkbox"/> VCP<br>Other: Lat 3: 6" |
| <b>Tile replaced by utility?</b>   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   |
| <b>Tile replacement material:</b>  | <input type="checkbox"/> RCP <input type="checkbox"/> CMP <input checked="" type="checkbox"/> N/A<br>Other:  |
| <b>Condition of District tile:</b>                                       | Tile was found to be broken in the observation excavation, with the existing Lateral 3 VCP tile in poor condition and possibly collapsed.  |
| <b>Signage present?</b>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A   |

| Notes   |  |
|---|--|
| <p><b>No signage was observed at the time of site visit.</b></p> <p><b>The Lateral 1 wasn't found by Heart of Iowa, so there is no information to report on said tile. Further investigation may be conducted if so desired by the District Trustees. However, given the boring was conducted only 1-foot below the ditch bottom elevation, it is highly unlikely that it would conflict with said Lateral 1 tile.</b></p> <p><b>The piece of the Lateral 3 tile that was found to be broken prior to the observation excavation, with the VCP material observed in generally poor condition. CGA recommends a repair and possible investigation into the condition of the tile in this area.</b></p> |  |



CONSTRUCTION ENGINEERING  
OBSERVATION REPORT

DATE:

10-29-2020  
~~68~~ 10-21-2020

PROJECT NUMBER:

6935.5

COUNTY, ROUTE, ROAD:

B00 #128

LOCATION:

D-35 + S-55

DAYS OF WEEK:

S M T W T F S

SHEET NO.

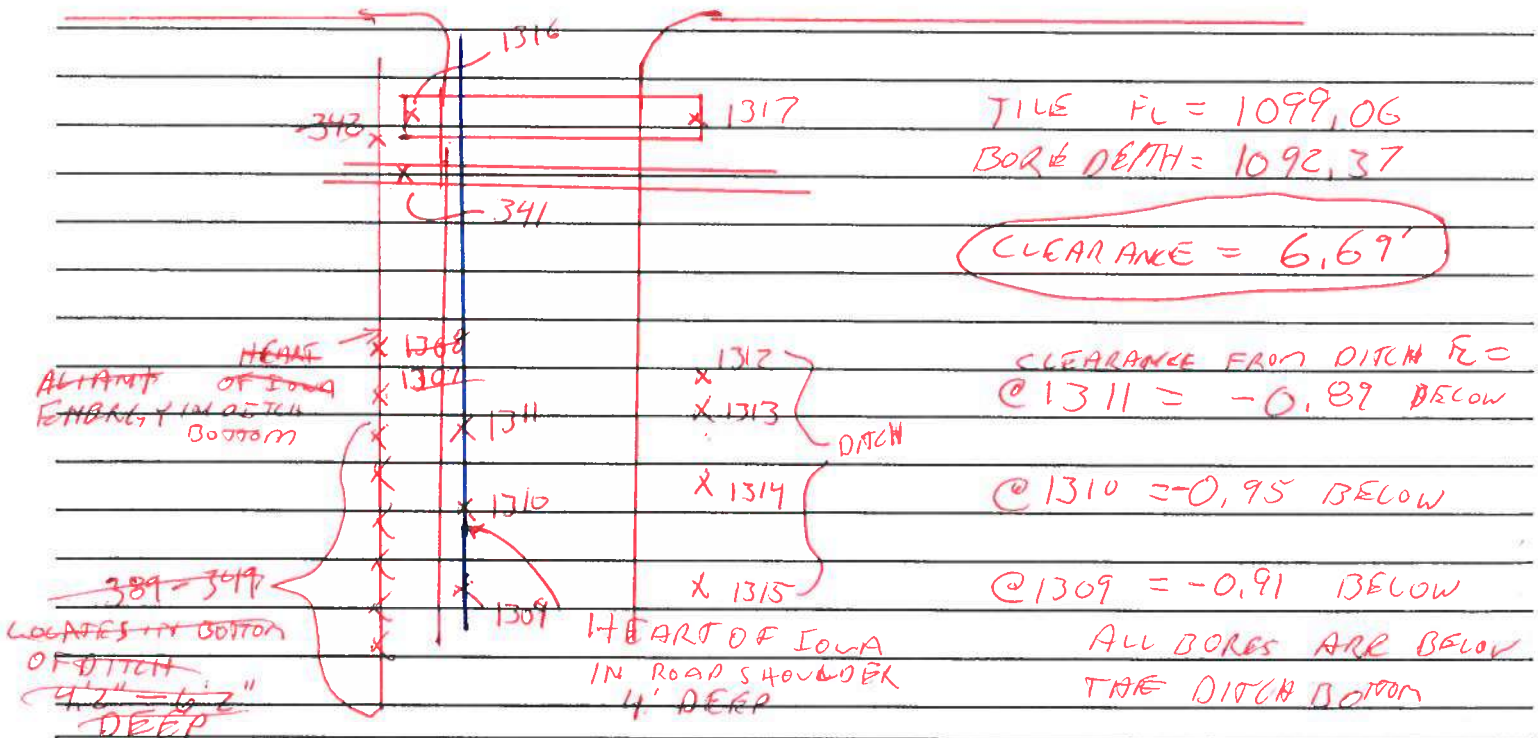
1 OF 1

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

~~FOOK~~ SHO T 2 √3

FOOK SHOT ON TILE (#341) BORE WAS NOT RAN YET,  
TILE WAS BROKEN DOWN STREAM END WAS 1/4 FULL + UP  
STREAM END WAS 3/4 FULL OF DIRT.

CALLED MARRIN AFTER I SAW NO BORING DEPTHS  
HE SAID THAT THE BORE IS 8' BELOW THE CULVERT



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

Observer's Signature: \_\_\_\_\_ Date Prepared: \_\_\_\_\_

Reviewed by: \_\_\_\_\_  Engineer \_\_\_\_\_

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

@341 Looking N.



2020/10/29



2020/10/29

CROSSING @ 1310



DEPTH @ 1310



2020/10/29



2020/10/29

CULVERT @ 1316



GPS #341



upstream @ 341





Downstream @ 341



2020/10/21

Downstream @ 341



2020/10/21



Upstream @ 341



2020/10/21

Downstream @ 341



2020/10/21



GPS #341



6935 dd128 2020-10-29 cs

1,3618716.220,5034450.740,1112.480,GPS 8070  
1\_GNSS,3618716.220,5034450.740,1112.480,Autonomous Setup  
2,3618431.652,5024119.946,1096.825,CPT IRS 3/4 .5DOWN  
3,3618541.632,5024119.731,1101.936,SPK TOP6X6 SE GUARDRAILEND  
4,3616008.561,5024081.184,1067.548,T PST .2UP  
5,3616008.785,5024080.851,1067.040,WCP W S  
6,3616030.079,5023952.479,1054.201,FL TILE  
7,3616025.718,5023946.227,1058.608,GS FL  
8,3616012.070,5023944.425,1058.608,INTK RISER 6"STEEL  
9,3616232.193,5024081.348,1059.209,INTK RISER 6"PLASTIC  
10,3616262.864,5024094.402,1059.400,FL CMP6'ELIPT  
11,3616316.825,5024131.090,1067.362,(O) IN 8/3/06 NE CONC PARA  
12,3613379.518,5022353.385,1054.663,FL RCB(8X5.3)DOUBLE  
13,3613024.649,5022139.613,1053.096,GS FL  
14,3612789.096,5022029.961,1053.166,GS FL  
15,3612371.788,5021990.910,1053.057,GS FL  
16,3612064.010,5021950.352,1052.724,GS FL  
17,3611859.787,5021902.019,1053.261,GS FL  
18,3611543.792,5021573.965,1052.694,GS FL  
19,3611524.781,5021502.129,1052.382,FNC N S  
20,3611487.914,5021501.370,1051.329,GS FL  
21,3611225.628,5021165.745,1050.379,GS FL  
22,3611007.524,5020844.512,1050.177,GS FL  
23,3610734.176,5020806.234,1049.023,GS FL  
24,3610615.852,5020935.412,1047.663,GS FL  
25,3610426.190,5021111.354,1047.195,GS FL  
26,3610407.436,5021099.635,1043.215,FL+- 24" TILE BLOWOUT  
27,3610411.782,5021101.814,1047.723,GS  
28,3610102.044,5021521.828,1043.524, TOP CONC HEADWALL  
29,3610102.207,5021522.289,1039.293,FL TILE  
30,3610119.806,5021455.149,1041.478,FL TILE26"  
31,3610129.122,5021521.122,1045.777,FNC  
32,3610772.063,5021515.618,1052.609,SCF ALUMNCAP19957  
33,3604123.029,5025260.423,1041.397,GPS MON8060  
34,3604166.072,5024352.095,1031.310,CLDD1 CLBRIDGE  
35,3602869.484,5024249.875,1029.465,TB RR C+CN  
36,3602857.888,5024234.131,1029.474,TB RR C+CN  
37,3602824.513,5024260.745,1030.270,TB RR C+CN  
38,3602837.122,5024273.538,1030.300,TB RR C+CN  
39,3603037.456,5024316.434,1021.884,TB  
40,3602786.986,5024233.137,1021.786,WCP RR RW  
41,3602836.531,5024233.675,1026.252,CMP TOP  
42,3602866.997,5024262.455,1027.021,CMP TOP  
43,3602877.186,5024270.009,1016.870,FL CMP +-  
44,3603033.773,5024323.545,1017.091,WO  
45,3603016.509,5024312.423,1021.350,TB  
46,3602969.034,5024307.050,1014.990,1+00 FL  
47,3603170.097,5024306.158,1016.013,3+00 FL  
48,3603175.772,5024311.181,1018.432, TOP PLASTIC TILE



49,3603266.305,5024303.820,1022.572,TB  
50,3603351.889,5024222.437,1016.730,5+00 FL  
51,3603543.569,5024165.948,1017.381,7+00 FL  
52,3603676.000,5024187.922,1023.894,TB  
53,3603681.997,5024190.676,1021.786,W0  
54,3603689.617,5024184.783,1023.851,TB  
55,3603741.371,5024148.940,1017.206,9+00 FL  
56,3603865.811,5024082.401,1017.735,10+40  
57,3603906.609,5024126.531,1017.535,11+00 FL  
58,3604046.339,5024281.771,1019.286,13+00 FL  
59,3604182.458,5024334.867,1028.926,NW BRDG ABUT  
60,3604231.661,5024356.869,1018.003,15+00 fl  
61,3604426.761,5024313.330,1019.392,17+00 fl  
62,3604617.824,5024253.977,1020.614,19+00 fl  
63,3604786.546,5024146.644,1021.556,21+00 fl  
64,3604960.753,5024048.267,1021.371,23+00 fl  
65,3605117.667,5023924.432,1021.654,25+00 fl  
66,3605296.917,5023836.072,1021.865,27+00 fl  
67,3605462.279,5023723.526,1023.437,29+00 fl  
68,3605642.640,5023636.848,1023.002,31+00 fl  
69,3605815.415,5023536.009,1023.599,33+00 fl  
70,3605977.599,5023419.077,1023.853,35+00 fl  
71,3606163.462,5023345.120,1024.165,37+00 fl  
72,3606356.228,5023292.286,1026.285,39+00 fl  
73,3606551.309,5023247.561,1026.265,41+00 fl  
74,3606737.078,5023173.170,1026.901,43+00 fl  
75,3606937.035,5023177.772,1027.931,45+00 fl  
76,3607136.939,5023187.644,1027.271,47+00 fl  
77,3607336.513,5023175.893,1028.975,49+00 fl  
78,3607531.320,5023129.884,1028.556,51+00 fl  
79,3607724.100,5023076.358,1028.828,53+00 fl  
80,3607919.441,5023033.739,1031.569,55+00 fl  
81,3608085.549,5022922.371,1031.553,57+00 fl  
82,3608285.513,5022914.666,1032.125,59+00 fl  
83,3608471.791,5022842.074,1033.081,61+00 fl  
84,3608669.663,5022813.233,1034.133,63+00 fl  
85,3608843.076,5022713.615,1033.579,65+00 fl  
86,3608971.040,5022559.939,1034.393,67+00 fl  
87,3609109.349,5022415.417,1036.096,69+00 fl  
88,3609244.760,5022268.451,1036.798,71+00 fl  
89,3609407.514,5022152.168,1036.012,73+00 fl  
90,3609580.076,5022050.948,1036.305,75+00 fl  
91,3609746.796,5021940.532,1037.227,77+00 fl  
92,3609875.131,5021787.131,1039.328,79+00 fl  
93,3609986.501,5021621.091,1039.325,81+00 fl  
94,3613446.612,5022372.187,1052.897,fl  
95,3613537.401,5022414.253,1054.313,fl  
96,3613624.372,5022463.677,1054.146,fl  
97,3613623.231,5022465.419,1055.155,gs

98,3613711.941,5022511.979,1054.764,fl  
99,3613711.415,5022513.172,1055.434,gs  
100,3613800.740,5022558.173,1055.150,fl  
101,3613799.799,5022559.795,1055.654,gs  
102,3613888.796,5022605.546,1055.062,fl  
103,3613887.538,5022607.830,1056.018,gs  
104,3613974.241,5022657.631,1055.440,fl  
105,3614061.194,5022707.232,1055.845,fl  
106,3614146.556,5022759.400,1056.194,fl  
107,3614229.577,5022815.155,1055.954,fl  
108,3614313.034,5022870.434,1056.390,fl  
109,3614397.579,5022924.005,1056.214,fl  
110,3614482.166,5022977.426,1056.770,fl  
111,3614564.800,5023033.847,1056.791,fl  
112,3614606.704,5023124.605,1056.645,fl  
113,3614651.686,5023213.982,1056.860,fl  
114,3614694.210,5023304.526,1058.227,fl  
115,3614761.855,5023378.266,1057.432,fl  
116,3614853.484,5023418.452,1058.283,fl  
117,3614948.869,5023448.473,1059.187,fl  
118,3615045.459,5023474.499,1059.694,fl  
119,3615144.965,5023484.939,1058.174,fl  
120,3615242.625,5023506.479,1058.022,fl  
121,3615337.942,5023536.850,1058.083,fl  
122,3615430.592,5023574.559,1058.105,fl  
123,3615521.378,5023616.526,1058.278,fl  
124,3615604.591,5023672.053,1058.413,fl  
125,3615687.025,5023728.518,1058.389,fl  
126,3615770.027,5023784.114,1058.367,fl  
127,3615854.060,5023838.412,1058.734,fl  
128,3615937.492,5023893.406,1058.647,fl  
129,3616024.075,5023943.426,1058.557,fl  
130,3616110.969,5023992.810,1059.102,fl  
131,3616195.054,5024047.085,1060.002,fl  
132,3613417.714,5022362.151,1062.143,n headwall rcb  
133,3613446.718,5022414.624,1058.447,gs  
134,3613456.845,5022398.463,1057.858,gs  
135,3613464.293,5022387.091,1056.148,tb  
136,3613466.576,5022382.874,1054.239,toe  
137,3613467.998,5022380.798,1053.886,fl  
138,3613469.517,5022377.887,1054.110,toe  
139,3613470.582,5022375.908,1056.542,tb  
140,3613474.621,5022370.255,1057.624,gs  
141,3613479.706,5022362.306,1058.431,gs  
142,3613500.287,5022330.042,1058.502,gs  
143,3613583.767,5022385.259,1058.421,gs  
144,3613573.179,5022404.493,1057.745,gs  
145,3613570.168,5022410.259,1057.412,gs  
146,3613565.634,5022418.794,1057.420,tb

147,3613562.293,5022424.172,1055.761,gs  
148,3613560.531,5022427.504,1054.220,toe  
149,3613559.524,5022428.933,1054.628,gs fl  
150,3613558.500,5022431.059,1054.179,toe  
151,3613556.946,5022433.619,1056.284,gs  
152,3613550.195,5022445.720,1058.561,tb  
153,3613535.431,5022472.857,1060.483,gs  
154,3613622.592,5022521.775,1060.263,gs  
155,3613632.358,5022502.569,1059.153,gs  
156,3613637.461,5022492.232,1059.006,tb  
157,3613641.868,5022484.221,1057.154,gs  
158,3613644.945,5022477.741,1055.392,toe  
159,3613646.738,5022474.690,1055.506,gs cl  
160,3613647.842,5022472.456,1055.101,toe  
161,3613649.444,5022468.489,1057.203,gs  
162,3613653.120,5022461.933,1058.272,tb  
163,3613659.750,5022449.392,1057.807,gs  
164,3613668.047,5022432.646,1057.979,gs  
165,3613755.990,5022480.381,1058.251,gs  
166,3613737.866,5022509.078,1058.237,tb  
167,3613733.131,5022516.091,1057.035,gs  
168,3613730.847,5022519.628,1054.975,toe  
169,3613730.333,5022520.533,1054.679,gs cl  
170,3613729.727,5022520.963,1055.046,toe  
171,3613729.342,5022522.030,1055.745,gs  
172,3613727.338,5022525.380,1056.298,gs  
173,3613724.567,5022529.538,1058.611,tb  
174,3613719.001,5022538.385,1058.617,gs  
175,3613702.156,5022564.796,1060.370,gs  
176,3613789.341,5022613.707,1059.554,gs  
177,3613805.844,5022585.197,1058.923,gs  
178,3613806.682,5022583.438,1059.354,tb  
179,3613810.915,5022576.092,1058.355,gs  
180,3613813.572,5022571.412,1055.495,toe  
181,3613815.224,5022568.442,1055.148,gs cl  
182,3613816.208,5022567.518,1054.703,toe  
183,3613818.162,5022563.359,1056.843,gs  
184,3613823.212,5022555.068,1058.520,tb  
185,3613831.414,5022540.427,1058.550,gs  
186,3613839.375,5022527.053,1058.639,gs  
187,3613927.194,5022574.891,1059.060,gs  
188,3613915.149,5022594.402,1058.822,gs  
189,3613909.717,5022602.863,1058.970,tb  
190,3613907.144,5022606.836,1058.132,gs  
191,3613904.218,5022611.549,1056.741,gs  
192,3613903.077,5022613.341,1055.159,toe  
193,3613901.480,5022616.020,1055.641,gs cl  
194,3613899.627,5022618.907,1055.523,toe  
195,3613898.106,5022621.823,1056.886,gs

196,3613892.274,5022631.821,1059.093,tb  
197,3613888.496,5022637.044,1058.328,gs  
198,3613874.333,5022659.762,1059.490,gs  
199,3613962.021,5022707.987,1060.092,gs  
200,3613973.951,5022684.556,1058.271,gs  
201,3613976.387,5022679.846,1058.509,gs  
202,3613977.248,5022678.327,1059.056,tb  
203,3613981.148,5022670.422,1057.625,gs  
204,3613983.178,5022666.460,1055.832,toe  
205,3613984.138,5022663.825,1055.616,gs cl  
206,3613986.130,5022660.431,1055.436,toe  
207,3613987.355,5022657.111,1057.543,gs  
208,3613991.987,5022647.685,1059.308,tb  
209,3613995.568,5022641.853,1059.005,gs  
210,3614007.539,5022618.813,1059.503,gs  
211,3614094.368,5022668.662,1059.921,gs  
212,3614076.955,5022695.246,1059.930,tb  
213,3614071.891,5022703.945,1058.064,gs  
214,3614069.716,5022706.984,1055.983,toe  
215,3614068.346,5022709.132,1055.829,gs cl  
216,3614067.234,5022710.921,1055.301,toe  
217,3614065.177,5022714.041,1056.606,gs  
218,3614062.405,5022718.516,1058.238,gs  
219,3614056.641,5022726.801,1059.344,tb  
220,3614055.576,5022728.536,1058.666,gs  
221,3614039.913,5022752.677,1059.992,gs  
222,3614124.338,5022806.509,1059.470,gs  
223,3614134.260,5022789.610,1059.029,gs  
224,3614140.430,5022778.681,1059.447,tb  
225,3614144.752,5022770.918,1058.370,GS  
226,3614146.814,5022767.408,1057.387,gs  
227,3614148.513,5022764.793,1056.116,toe  
228,3614150.191,5022762.374,1056.149,gs cl  
229,3614151.477,5022759.418,1056.047,toe  
230,3614153.012,5022755.845,1058.086,gs  
231,3614161.297,5022742.410,1060.303,tb  
232,3614174.511,5022719.965,1060.452,gs  
233,3614261.181,5022770.018,1060.976,gs  
234,3614247.616,5022792.747,1060.585,tb  
235,3614239.513,5022806.908,1058.881,gs  
236,3614235.809,5022812.345,1057.774,gs  
237,3614234.830,5022814.786,1055.407,toe  
238,3614233.250,5022818.015,1056.505,gs cl  
239,3614231.769,5022820.157,1055.582,toe  
240,3614229.457,5022823.589,1057.360,gs  
241,3614227.505,5022826.668,1058.833,tb  
242,3614221.642,5022836.547,1059.109,gs  
243,3614209.727,5022855.892,1059.438,gs  
244,3614292.616,5022911.935,1060.136,gs

6935 dd128 2020-10-29 cs

245,3614304.733,5022895.535,1059.570,gs  
246,3614309.090,5022889.730,1059.682,tb  
247,3614314.490,5022882.686,1058.806,gs  
248,3614317.830,5022878.200,1055.656,toe  
249,3614319.200,5022876.024,1056.485,gs cl  
250,3614320.327,5022874.223,1056.157,toe  
251,3614322.340,5022870.871,1057.512,gs  
252,3614340.063,5022847.844,1061.279,tb  
253,3614352.190,5022831.428,1061.531,gs  
254,3614436.858,5022884.785,1062.200,gs  
255,3614424.567,5022901.918,1061.626,tb  
256,3614413.327,5022917.061,1059.279,gs  
257,3614407.794,5022925.562,1057.999,gs  
258,3614406.420,5022926.944,1056.077,toe  
259,3614404.618,5022929.327,1057.148,gs cl  
260,3614403.683,5022931.087,1057.083,toe  
261,3614400.226,5022936.670,1058.476,gs  
262,3614397.245,5022941.238,1059.976,gs  
263,3614390.880,5022947.339,1060.706,tb  
264,3614377.798,5022965.790,1060.975,gs  
265,3614460.009,5023022.989,1061.449,gs  
266,3614470.041,5023008.993,1060.998,gs  
267,3614473.644,5023004.385,1061.263,tb  
268,3614480.015,5022994.683,1060.303,gs  
269,3614484.158,5022989.920,1058.364,gs  
270,3614487.724,5022985.116,1057.554,gs  
271,3614489.238,5022983.053,1056.187,toe  
272,3614489.883,5022980.299,1056.285,gs cl  
273,3614491.199,5022976.672,1057.271,toe  
274,3614496.712,5022971.100,1059.672,gs  
275,3614506.698,5022957.238,1062.426,tb  
276,3614518.076,5022941.268,1063.159,gs  
277,3614793.137,5017453.571,1128.882,IRS CPT 3/4X2  
278,3614755.640,5017503.159,1130.143,SMN  
279,3614777.412,5017543.471,1127.177,IRF 5/8  
280,3614486.383,5017534.165,1116.600,FL CMP3.5  
281,3614486.584,5017535.769,1117.325,INTK BEEHIVE  
282,3614485.144,5017542.985,1117.754,GS  
283,3614489.231,5017549.972,1117.028,GS  
284,3614500.882,5017550.380,1118.968,FNL  
285,3614492.791,5017537.387,1119.079,UGFO  
286,3614512.071,5017537.903,1118.918,UGFO  
287,3614447.966,5017538.181,1118.710,UGFO  
288,3614459.648,5017549.426,1119.268,UGFO  
289,3614456.756,5017549.895,1119.370,FNL  
290,3614484.327,5017555.147,1116.887,GS INTK  
291,3614485.966,5017562.384,1120.967,GS TOP TERRACE  
292,3614509.894,5017561.105,1120.524,GS TOP TERRACE  
293,3614536.302,5017558.794,1120.205,GS TOP TERRACE

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294,3614462.082,5017560.072,1121.028,GS TOP TERRACE  
295,3614426.463,5017557.598,1120.043,GS TOP TERRACE  
296,3614520.249,5017575.670,1116.570,GS FL  
297,3614533.640,5017617.599,1115.886,GS FL  
298,3614543.294,5017646.644,1115.541,GS FL  
299,3614580.462,5017675.850,1115.068,GS FL  
300,3614612.508,5017727.884,1114.068,GS FL SUCKHOLE  
301,3614628.569,5017767.884,1113.968,GS FL  
302,3614640.280,5017794.549,1113.792,GS FL ROCK PILE  
303,3614641.234,5017842.018,1112.817,GS FL  
304,3614642.396,5017910.589,1112.408,GS FL  
305,3614602.790,5017982.276,1111.999,GS FL  
306,3614557.938,5018047.642,1110.957,GS FL  
307,3614504.449,5018110.170,1109.727,GS FL  
308,3614492.817,5018162.958,1109.117,GS INTK  
309,3614497.599,5018098.934,1109.880,GS  
310,3614506.553,5018039.945,1111.156,GS  
311,3614517.509,5017941.838,1113.255,GS  
312,3614517.570,5017855.638,1115.551,GS  
313,3614509.646,5017783.273,1118.531,GS  
314,3614494.193,5017717.020,1118.264,GS  
315,3614477.850,5017644.339,1117.487,GS  
316,3614469.510,5017600.140,1117.120,GS  
317,3614484.836,5018385.593,1105.146,GS SUCK HOLE  
318,3614475.159,5018419.634,1104.775,GS SUCK HOLE  
319,3614234.627,5018801.265,1096.455,OUTLET AREA DD128  
320,3614234.717,5018798.718,1095.082,OUTLET 5"CLAY  
321,3614236.953,5018799.160,1095.722,OUTLET 6"CLAY  
322,3613705.040,5019316.964,1085.078,GS INTKE STEEL  
323,3613867.625,5019183.632,1088.217,GS FL  
324,3613878.602,5019066.952,1088.414,GS FL  
325,3613967.430,5018895.964,1088.501,GS FL  
326,3614220.187,5018811.932,1095.639,CMP 15"TOP  
327,3614236.184,5018795.561,1096.045,CMP 15"TOP  
328,3614248.007,5018783.000,1096.608,CMP 15"TOP  
329,3614240.855,5018775.910,1095.827, TOP 5"CLAY  
330,3614249.648,5018780.584,1096.897, TOP 6"CLAY  
331,3614604.344,5017736.928,1112.157, TOP 6"CONC MAIN  
332,3614606.204,5017734.003,1112.860, TOP 6"CONC LAT  
333,3614476.244,5018420.001,1102.297, TOP 6"CONC  
334,3614476.904,5018417.629,1102.362, TOP 6"CLAY  
335,3614245.529,5018833.767,1102.355,CPT 1/2IRS  
336,3614437.206,5018503.348,1100.680,CMP TOP 8"  
337,3614437.421,5018501.016,1104.109,GS  
338,3614441.511,5018530.021,1103.543,FL SWALE  
339,3614462.549,5018476.922,1104.027,FL SWALE  
340,3614450.011,5018498.877,1103.816,FL SWALE  
341,3613340.690,5018791.043,1099.057,963 6  
342,3613345.487,5018785.269,1101.922,915 -3'4"

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343,3612491.169,5018802.418,1109.219,915 -4'5"  
344,3612464.931,5018802.463,1109.758,915 -4'3"  
345,3612424.884,5018803.747,1110.342,915 -4'9"  
346,3612386.732,5018804.023,1111.124,915 -5'2"  
347,3612386.706,5018804.210,1111.156,915 -5'2"  
348,3612340.266,5018804.309,1111.990,915 -4'6"  
349,3612279.979,5018804.328,1113.284,915 -4'2"  
350,3614220.014,5018811.967,1095.417,cmp 15" top 1.23' to fl  
351,3614213.305,5018811.852,1093.724,toe  
352,3614216.867,5018809.509,1094.039,toe  
353,3614220.698,5018808.924,1094.278,toe  
354,3614221.229,5018811.862,1093.924,toe  
355,3614221.468,5018816.374,1093.934,toe  
356,3614220.324,5018823.641,1094.283,toe  
357,3614213.736,5018825.482,1094.044,toe  
358,3614208.588,5018814.750,1093.675,toe  
359,3614210.258,5018817.890,1093.374,fl ditch  
360,3614216.948,5018814.257,1093.291,fl ditch  
361,3614215.560,5018814.870,1093.560,fl ditch  
362,3614218.096,5018813.634,1093.721,fl ditch  
363,3614219.924,5018812.120,1093.524,fl ditch  
364,3614209.900,5018802.186,1097.828,gs boulders/dirt  
365,3614198.048,5018791.226,1100.862,TB  
366,3614175.333,5018770.209,1102.698,gs grass  
367,3614167.586,5018757.459,1104.905,gs grass  
368,3614161.371,5018748.735,1105.311,shed e side  
368\_REF1,3614160.939,5018749.637,1105.151,Ref. Pt.  
368\_REF2,3614162.296,5018749.115,1104.872,Ref. Pt.  
369,3614220.970,5018813.416,1093.879,fl ditch  
370,3614223.085,5018814.961,1094.157,toe  
371,3614224.420,5018816.904,1095.637,gs boulders/dirt  
372,3614228.000,5018818.739,1096.310,gs boulders  
373,3614233.702,5018821.342,1099.053,gs boulders  
374,3614243.132,5018833.163,1101.554,tb  
375,3614246.162,5018835.781,1102.236,gs grass/field  
376,3614265.142,5018851.528,1102.680,gs field  
377,3614302.253,5018877.566,1104.371,gs field  
378,3614330.610,5018832.122,1104.358,gs field  
379,3614292.704,5018801.730,1102.522,gs field  
380,3614255.590,5018772.849,1101.286,gs field  
381,3614249.291,5018770.613,1101.332,gs grass/field  
382,3614224.746,5018746.015,1101.885,gs grass  
383,3614202.845,5018734.767,1104.703,gs grass  
384,3614193.417,5018727.133,1105.093,gs grass  
385,3614190.939,5018727.463,1104.979,gs grass  
386,3614189.947,5018727.596,1105.173,shed n side  
387,3612510.895,5018803.999,1108.937,915 -4'10"  
388,3612590.727,5018809.455,1109.278,915 -4'9"  
389,3612666.330,5018805.331,1107.725,915 -6'2"

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390,3614192.178,5018744.539,1104.869,shed ne cor  
390\_REF1,3614192.380,5018745.518,1104.897,Ref. Pt.  
390\_REF2,3614193.175,5018744.468,1104.841,Ref. Pt.  
391,3614199.801,5018751.307,1104.465,gs grass  
392,3614213.868,5018760.874,1102.454,gs grass  
393,3614221.382,5018781.294,1100.979,gs  
394,3614220.864,5018797.864,1098.687,gs  
395,3614224.861,5018803.931,1098.074,gs  
396,3614229.342,5018796.410,1099.432,gs  
397,3614227.619,5018806.769,1098.071,gs  
398,3614230.982,5018805.919,1098.012,gs  
399,3614233.740,5018807.543,1099.111,gs  
400,3614233.124,5018812.658,1099.092,gs  
401,3614229.172,5018812.645,1097.645,gs  
402,3614225.088,5018808.717,1096.414,gs  
403,3614223.968,5018809.308,1095.007,gs  
404,3614221.748,5018806.335,1095.551,gs  
405,3614220.464,5018808.103,1095.053,gs  
406,3614243.983,5018814.285,1101.414,tb  
407,3614250.215,5018813.824,1101.815,gs grass/field  
408,3614251.908,5018792.021,1101.396,gs grass/field  
409,3614254.376,5018780.175,1101.182,gs grass/field  
410,3614252.419,5018776.561,1100.234,gs  
411,3614247.377,5018784.832,1099.280,gs  
412,3614242.594,5018794.341,1099.001,gs  
413,3614237.899,5018798.182,1098.503,gs  
414,3614245.585,5018801.264,1101.164,gs  
415,3614247.601,5018788.822,1101.393,gs  
416,3614252.943,5018781.032,1101.169,gs  
417,3614253.550,5018775.188,1101.136,gs  
418,3614247.096,5018773.354,1101.326,gs  
419,3614240.492,5018771.574,1100.358,gs  
420,3614235.321,5018769.850,1101.546,gs  
421,3614240.562,5018767.875,1101.375,gs  
422,3614237.385,5018787.277,1100.497,gs  
423,3614243.598,5018782.977,1100.264,gs  
424,3614244.140,5018781.716,1099.585,gs  
425,3614245.209,5018778.198,1100.746,gs  
426,3614244.097,5018840.280,1101.823,sfp  
427,3614235.150,5018848.834,1101.073,sfp  
428,3614211.326,5018862.179,1100.060,sfp  
429,3614184.937,5018873.383,1100.127,sfp  
430,3614151.920,5018881.641,1100.161,sfp  
431,3614122.307,5018881.494,1099.334,sfp  
432,3614219.460,5018852.545,1099.652,conc broken se cor  
433,3614216.516,5018847.195,1098.386,conc broken sw cor  
434,3614228.667,5018833.855,1098.640,conc broken ww cor  
435,3614238.279,5018838.148,1100.537,conc broken ne cor  
436,3614227.695,5018845.076,1100.006,shrub



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437,3614192.851,5018859.949,1098.101,trd 6  
438,3614192.297,5018859.522,1098.101,trd 6  
439,3614202.387,5018821.495,1093.433,toe  
440,3614203.856,5018822.673,1093.286,fl ditch  
441,3614149.342,5018814.331,1100.444,gs dead tree pile  
442,3614172.525,5018797.355,1101.338,gs dead tree pile  
443,3614196.579,5018785.507,1101.347,gs dead tree pile  
444,3614205.529,5018791.776,1100.061,gs dead tree pile  
445,3614194.832,5018813.762,1097.337,gs dead tree pile  
446,3614185.844,5018829.195,1095.087,gs dead tree pile  
447,3614165.016,5018829.127,1097.560,gs dead tree pile  
448,3614177.953,5018825.939,1099.185,trd 10"  
448\_REF1,3614177.365,5018823.509,1099.326,Ref. Pt.  
448\_REF2,3614175.509,5018825.412,1099.044,Ref. Pt.  
449,3614201.381,5018819.366,1095.346,gs  
450,3614205.320,5018825.113,1093.686,toe  
451,3614205.495,5018826.900,1095.448,gs  
452,3614209.038,5018826.794,1095.487,gs  
453,3614209.846,5018824.968,1093.607,toe  
454,3614219.184,5018836.516,1096.886,gs  
455,3614224.600,5018854.973,1100.443,tb  
456,3614238.588,5018844.648,1101.108,tb  
457,3614241.490,5018848.025,1101.755,gs grass/field  
458,3614219.570,5018862.248,1100.759,gs grass/field  
459,3614191.861,5018839.415,1095.203,gs  
460,3614190.770,5018837.907,1093.103, toe  
461,3614189.382,5018835.486,1093.208,toe  
462,3614188.402,5018833.235,1094.976,gs  
463,3614185.528,5018828.480,1095.192,gs  
464,3614175.493,5018838.337,1093.776,gs  
465,3614175.554,5018838.939,1092.798,toe  
466,3614176.587,5018840.990,1092.657,toe  
467,3614177.970,5018844.141,1095.062,gs  
468,3614185.314,5018857.109,1096.395,gs  
469,3614188.136,5018863.754,1097.966,gs  
470,3614191.802,5018867.824,1099.628,tb  
471,3614194.740,5018873.613,1100.393,gs grass/field  
472,3614175.919,5018840.174,1093.018,fl ditch  
473,3614211.571,5018901.999,1102.366,gs field  
474,3614236.388,5018933.422,1104.626,gs field  
475,3614171.209,5018833.734,1095.554,gs grass  
476,3614158.169,5018819.218,1100.231,tb  
477,3614151.759,5018806.719,1101.146,gs grass  
478,3614132.682,5018781.962,1102.194,gs grass  
479,3614123.038,5018771.819,1103.722,gs grass  
480,3614110.060,5018760.309,1104.932,gs grass  
481,3614108.147,5018755.799,1104.889,shed e side  
481\_REF1,3614107.107,5018758.613,1104.794,Ref. Pt.  
481\_REF2,3614109.840,5018758.276,1104.985,Ref. Pt.

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482,3614098.175,5018791.630,1101.480,gs pile branches & stalks  
483,3614118.746,5018794.728,1101.270,gs pile branches & stalks  
484,3614126.087,5018804.493,1100.493,gs pile branches & stalks  
485,3614120.059,5018809.808,1099.867,gs pile branches & stalks  
486,3614105.250,5018809.618,1099.736,gs pile branches & stalks  
487,3614094.496,5018805.716,1099.992,gs pile branches & stalks  
488,3614078.656,5018818.897,1095.527,gs tree area  
489,3614104.021,5018836.731,1094.134,gs tree area  
490,3614112.849,5018849.981,1092.468,gs tree area  
491,3614155.895,5018839.631,1094.987,gs tree area  
492,3614154.219,5018832.280,1095.570,gs tree area  
493,3614136.229,5018823.100,1098.695,gs tree area  
494,3614101.506,5018810.744,1099.113,gs tree area  
495,3614046.947,5018848.852,1093.362,gs tree area  
496,3614058.668,5018840.907,1093.523,gs tree area  
497,3614090.546,5018852.808,1093.709,gs tree area  
498,3614149.694,5018865.151,1094.959,gs tree area  
499,3614152.435,5018878.655,1099.947,gs tree area  
500,3614118.000,5018879.233,1099.166,gs tree area  
501,3614071.385,5018865.856,1097.398,gs tree area  
502,3614045.967,5018865.054,1096.145,gs tree area  
503,3614043.289,5018872.698,1096.516,sfp  
504,3614063.659,5018871.770,1097.331,sfp  
505,3614084.601,5018873.050,1098.188,sfp  
506,3614160.743,5018854.060,1095.008,wfp 10"  
507,3614159.149,5018850.325,1094.466,wfp 10"  
508,3614156.777,5018849.112,1093.990,wfp 10"  
509,3614161.614,5018847.305,1094.020,wfp 6"  
510,3614160.310,5018842.165,1093.128,wfp 12"  
511,3614161.289,5018842.185,1094.808,wood plank se cor 3" wide  
512,3614160.874,5018839.867,1094.751,wood plank s side 3" wide  
513,3614160.096,5018836.330,1095.069,wfp 12" nside  
514,3614154.979,5018840.130,1094.623,wfp 8" nside  
515,3614161.719,5018834.666,1095.371,trd 3"  
516,3614163.059,5018837.556,1094.999,gs boulder pile  
517,3614163.448,5018831.803,1096.108,gs boulder pile  
518,3614155.907,5018831.270,1096.036,gs boulder pile  
519,3614155.419,5018837.094,1094.741,gs boulder pile  
520,3614167.302,5018842.788,1094.209,gs  
521,3614167.931,5018843.473,1092.595,toe / fl  
522,3614168.695,5018845.006,1092.963,fl ditch  
523,3614169.392,5018846.392,1093.147,toe  
524,3614169.610,5018848.280,1094.935,gs  
525,3614162.676,5018848.113,1094.066,gs  
526,3614161.760,5018846.503,1092.920,toe  
527,3614160.595,5018844.481,1092.202,fl ditch  
528,3614160.793,5018840.870,1092.402,toe  
529,3614160.593,5018839.934,1094.583,gs  
530,3614163.478,5018863.481,1094.792,gs

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531,3614164.728,5018870.158,1097.263,gs  
532,3614166.137,5018875.712,1099.904,tb  
533,3614157.340,5018835.868,1094.928,gs  
534,3614156.637,5018828.967,1096.604,gs  
535,3614148.425,5018822.065,1099.244,tb  
536,3614128.094,5018844.143,1094.148,gs  
537,3614128.587,5018846.530,1092.991,toe  
538,3614129.081,5018849.097,1092.779,fl ditch  
539,3614129.766,5018851.646,1093.128,toe  
540,3614130.084,5018853.312,1093.883,gs  
541,3614131.692,5018838.397,1094.688,gs  
542,3614129.765,5018832.793,1096.673,gs  
543,3614131.315,5018822.087,1098.735,tb  
544,3614129.454,5018809.615,1100.141,gs  
545,3614128.345,5018868.189,1094.865,gs  
546,3614126.323,5018878.308,1099.350,tb  
547,3614127.878,5018884.895,1099.827,gs grass/field  
548,3614128.468,5018911.619,1101.938,gs field  
549,3614131.051,5018959.855,1105.321,gs field  
550,3614093.482,5018969.602,1104.469,gs field  
551,3614086.066,5018929.663,1101.464,gs field  
552,3614080.169,5018889.827,1099.073,gs field  
553,3614077.517,5018878.049,1098.439,gs field/grass  
554,3614080.671,5018862.515,1097.538,tb  
555,3614079.677,5018842.651,1092.682,boulder top 2.5'od  
556,3614085.707,5018843.612,1092.732,gs  
557,3614085.520,5018844.314,1091.186,toe  
558,3614084.312,5018845.821,1090.947,fl ditch  
559,3614084.604,5018847.815,1091.308,toe  
560,3614081.963,5018847.829,1093.005,GS  
561,3614081.804,5018824.055,1093.759,GS  
562,3614077.839,5018806.512,1099.597,tb  
563,3614076.146,5018792.794,1101.290,gs  
564,3614070.899,5018764.293,1104.667,gs  
565,3614067.082,5018747.445,1104.889,gs  
566,3614071.529,5018747.886,1104.910,shed s side  
566\_REF1,3614068.556,5018747.487,1104.938,Ref. Pt.  
566\_REF2,3614069.078,5018749.615,1104.883,Ref. Pt.  
567,3614073.022,5018760.289,1105.005,shed se cor  
567\_REF1,3614073.327,5018761.241,1105.084,Ref. Pt.  
567\_REF2,3614072.038,5018760.469,1104.926,Ref. Pt.  
568,3614067.444,5018828.862,1092.943,gs  
569,3614066.546,5018830.059,1090.713,toe  
570,3614066.395,5018831.291,1090.830,fl ditch  
571,3614065.636,5018832.450,1090.854,toe  
572,3614064.798,5018834.617,1093.196,tb  
573,3614052.099,5018831.484,1091.516,top 1.5' od boulder  
574,3614041.473,5018832.306,1092.645,gs  
575,3614041.598,5018833.465,1090.263,toe

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576,3614041.852,5018834.174,1090.021,fl ditch  
577,3614042.169,5018835.252,1090.391,toe  
578,3614042.012,5018837.019,1092.990,gs  
579,3614031.002,5018841.631,1092.229,gs  
580,3614030.064,5018841.014,1090.280,toe  
581,3614027.315,5018839.447,1090.379,toe  
582,3614026.546,5018838.908,1092.570,gs  
583,3614031.741,5018837.261,1090.260,fl ditch  
584,3614028.768,5018840.357,1090.205,fl ditch  
585,3614028.727,5018843.031,1090.025,fl ditch  
586,3614032.948,5018834.373,1092.245,gs  
587,3614034.632,5018834.251,1090.680,gs  
588,3614037.757,5018833.244,1092.402,gs  
589,3614035.858,5018832.338,1091.897,gs  
590,3614039.991,5018828.796,1092.310,gs  
591,3614038.213,5018831.219,1092.701,gs  
592,3614040.451,5018829.919,1092.638,gs  
593,3614039.192,5018825.254,1093.562,gs  
594,3614034.486,5018828.390,1093.245,gs  
595,3614027.440,5018828.870,1093.311,gs  
596,3614035.314,5018807.579,1100.061,tb  
597,3614032.245,5018794.630,1100.881,gs  
598,3614025.935,5018780.831,1101.966,edge drive  
599,3614018.919,5018739.550,1102.615,gs drive  
600,3614036.266,5018856.846,1093.142,gs  
601,3614042.091,5018856.909,1093.584,gs broken conc  
602,3614043.575,5018861.950,1095.085,gs broken conc  
603,3614038.683,5018863.357,1095.085,gs broken conc  
604,3614034.201,5018859.232,1093.090,gs broken conc  
605,3614040.756,5018869.332,1096.398,tb  
606,3614040.939,5018883.877,1097.124,gs grass/field  
607,3614047.891,5018922.716,1099.181,gs field  
608,3614054.026,5018966.729,1101.694,gs field  
609,3613952.770,5018900.610,1092.293,sfp  
610,3613957.240,5018908.310,1090.936,sfp  
611,3613967.709,5018916.819,1091.345,sfp  
612,3613981.799,5018924.494,1095.281,sfp  
613,3614009.817,5018895.997,1096.335,sfp  
614,3614035.090,5018868.421,1095.745,gs tree area  
615,3614014.518,5018881.363,1095.198,gs tree area  
616,3613987.501,5018909.082,1094.613,gs tree area  
617,3613982.130,5018906.100,1092.855,gs tree area  
618,3614008.854,5018873.431,1093.469,gs tree area  
619,3614028.412,5018862.150,1092.985,gs tree area  
620,3614036.741,5018813.137,1099.192,rr tie pile  
621,3614022.156,5018812.730,1099.209,rr tie pile  
622,3614010.174,5018808.351,1100.281,rr tie pile  
623,3614011.452,5018804.684,1100.514,rr tie pile  
624,3614020.569,5018802.669,1100.563,rr tie pile

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625,3614027.444,5018803.863,1100.496,rr tie pile  
626,3614037.333,5018808.204,1100.022,rr tie pile  
627,3614025.824,5018850.011,1092.335,gs  
628,3614027.259,5018850.006,1090.350,toe  
629,3614028.367,5018850.402,1090.137,fl ditch  
630,3614029.951,5018850.593,1090.193,toe  
631,3614030.734,5018851.128,1092.427,gs  
632,3614025.090,5018859.111,1092.024,gs  
633,3614024.617,5018858.535,1090.154,toe  
634,3614024.277,5018857.083,1090.095,fl ditch  
635,3614022.190,5018855.186,1090.859,toe  
636,3614021.695,5018853.555,1092.749,gs  
637,3614016.695,5018855.299,1092.349,gs  
638,3614016.852,5018856.792,1090.162,toe  
639,3614016.741,5018857.812,1090.069,fl ditch  
640,3614015.169,5018859.128,1090.230,toe  
641,3614013.912,5018860.562,1092.581,gs  
642,3614006.527,5018856.829,1091.981,gs  
643,3614006.463,5018855.834,1089.891,toe  
644,3614006.028,5018854.438,1090.013,fl ditch  
645,3614005.603,5018852.539,1090.196,toe  
646,3614005.526,5018850.644,1092.450,gs  
647,3614007.939,5018854.518,1090.062,fl ditch  
648,3614010.247,5018853.043,1091.738,gs  
649,3614009.245,5018852.538,1090.370,gs  
650,3614008.458,5018851.977,1090.393,gs  
651,3614007.021,5018850.505,1092.233,gs  
652,3614009.403,5018848.781,1092.145,gs  
653,3614010.598,5018849.130,1090.836,gs  
654,3614012.471,5018849.888,1092.591,gs  
655,3614012.356,5018844.647,1092.568,gs  
656,3614014.243,5018844.494,1092.591,gs  
657,3614014.333,5018846.399,1092.555,gs  
658,3614013.429,5018845.597,1091.711,gs  
659,3614026.595,5018829.131,1093.354,gs  
660,3614013.034,5018830.247,1094.013,gs  
661,3613999.066,5018838.849,1093.929,gs  
662,3614004.067,5018830.675,1094.791,gs  
663,3614004.414,5018829.176,1094.497,gs  
664,3614004.741,5018827.677,1095.454,gs  
665,3613995.764,5018831.993,1096.859,trd 4" s side  
666,3613991.628,5018833.506,1098.512,trd 16"od cluster  
666\_REF1,3613988.265,5018831.341,1098.814,Ref. Pt.  
666\_REF2,3613988.294,5018835.717,1098.210,Ref. Pt.  
667,3613984.467,5018836.904,1097.663,junk area  
668,3613980.252,5018836.462,1097.653,junk area  
669,3613980.630,5018841.627,1096.364,junk area  
670,3613983.667,5018841.293,1096.207,junk area  
671,3613981.849,5018842.398,1096.634,trd 12" od cluster

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672,3613966.849,5018812.994,1100.092,burn pile area  
673,3613974.626,5018810.386,1100.275,burn pile area  
674,3613983.589,5018821.128,1099.594,burn pile area  
675,3613968.038,5018824.314,1099.522,burn pile area  
676,3613963.251,5018812.680,1100.125,edge drive  
677,3613988.647,5018799.069,1100.255,edge drive  
678,3613992.356,5018817.512,1099.488,trd 6"  
679,3613996.075,5018819.319,1098.353,trd 12" stump  
680,3614008.781,5018821.591,1096.263,gs  
681,3614008.291,5018820.052,1097.333,gs  
682,3614007.762,5018817.313,1097.717,gs  
683,3614007.021,5018815.427,1098.861,tb  
684,3614005.947,5018811.284,1099.904,gs  
685,3613997.405,5018810.289,1100.046,gs  
686,3613995.189,5018809.984,1099.665,gs  
687,3613993.493,5018811.143,1099.852,gs  
688,3613994.171,5018813.451,1099.114,gs  
689,3613995.095,5018813.475,1098.097,gs  
690,3613996.738,5018813.260,1097.907,gs  
691,3613997.742,5018813.226,1099.586,gs  
692,3613998.792,5018814.538,1099.176,tb  
693,3613997.223,5018816.069,1096.765,tb  
694,3613996.710,5018814.641,1097.280,gs  
695,3613996.063,5018814.744,1097.162,gs  
696,3613996.270,5018816.321,1096.660,toe  
697,3613993.371,5018815.426,1096.782,toe  
698,3613993.196,5018812.792,1099.380,tb  
699,3613989.571,5018812.173,1099.682,tb  
700,3613988.552,5018817.181,1099.528,tb  
701,3613995.540,5018819.977,1098.383,tb  
702,3613999.213,5018820.803,1097.553,gs  
703,3613999.135,5018822.395,1097.497,gs  
704,3613994.158,5018821.076,1098.239,gs  
705,3613989.346,5018820.676,1099.062,gs  
706,3613991.231,5018827.510,1098.298,tb  
707,3613992.500,5018826.864,1096.927,gs  
708,3613996.841,5018826.993,1095.677,gs  
709,3613990.417,5018814.407,1097.228,rcp 5" top 0.46' to fl  
710,3613990.694,5018814.604,1096.575,fl  
711,3613990.875,5018814.176,1096.801,toe  
712,3613990.164,5018814.799,1096.804,toe  
713,3613989.751,5018814.425,1097.484,gs  
714,3613990.300,5018813.838,1097.457,gs  
715,3613994.444,5018816.328,1096.572,fl  
716,3613994.235,5018816.897,1096.946,toe  
717,3613994.640,5018815.965,1096.785,toe  
718,3613996.931,5018817.337,1097.110,cmp 6" top 0.52' to fl  
719,3613996.232,5018816.976,1096.493,fl  
720,3613997.316,5018818.486,1096.595,toe

721,3613998.061,5018816.874,1096.709,toe  
722,3614000.081,5018819.156,1096.345,fl  
723,3614000.979,5018818.593,1096.634,gs  
724,3613999.541,5018819.482,1096.486,gs  
725,3614001.257,5018821.689,1097.602,gs  
726,3614000.468,5018821.844,1096.287,fl  
727,3613999.206,5018822.147,1097.664,gs  
728,3614001.712,5018824.947,1095.801,gs  
729,3614001.507,5018826.607,1095.198,gs  
730,3614001.308,5018828.666,1095.367,gs  
731,3613999.403,5018835.058,1094.844,gs  
732,3613984.106,5018835.410,1098.275,TB  
733,3613993.813,5018847.376,1092.903,gs  
734,3614002.449,5018840.717,1093.607,gs  
735,3614000.195,5018834.566,1094.900,gs  
736,3613996.896,5018827.885,1095.815,gs  
737,3613990.669,5018828.137,1098.393,tb  
738,3614010.772,5018827.967,1094.541,gs  
739,3614011.032,5018830.025,1093.951,gs  
740,3614006.934,5018831.877,1093.991,gs  
741,3614006.005,5018832.739,1094.726,gs  
742,3614024.307,5018830.364,1093.439,gs  
743,3614101.979,5018847.355,1093.832,gs  
744,3614102.161,5018849.895,1091.692,toe  
745,3614102.090,5018851.776,1091.487,fl ditch  
746,3613983.742,5018865.580,1091.247,gs  
747,3613983.735,5018866.532,1089.682,toe  
748,3613984.055,5018867.636,1089.774,fl ditch  
749,3613984.462,5018868.851,1089.355,toe  
750,3613985.424,5018871.503,1092.427,GS  
751,3613988.491,5018888.489,1092.397,GS  
752,3613994.466,5018907.372,1095.850,tb  
753,3613997.955,5018912.399,1095.946,gs grass/field  
754,3614009.859,5018955.188,1098.327,gs field  
755,3614019.858,5018994.937,1100.906,gs field  
756,3613984.937,5018862.438,1091.677,fmisc metalgate  
757,3613982.298,5018853.890,1092.805,gs  
758,3613972.795,5018837.385,1099.083,tb  
759,3613977.774,5018843.206,1095.987,gs  
760,3613975.256,5018829.573,1098.984,fmisc metal gate e&s  
761,3613959.502,5018829.215,1099.260,fmisc metal gate n & fnb s  
762,3613973.419,5018823.193,1099.568,gs  
763,3613969.627,5018809.369,1100.167,edge drive  
764,3613961.938,5018790.034,1100.304,edge drive  
765,3613956.056,5018769.898,1101.178,gs grass  
766,3614104.197,5018854.087,1091.737,toe  
767,3614105.547,5018855.653,1093.319,gs  
768,3613967.687,5018860.620,1093.437,gs  
769,3613974.541,5018852.658,1093.843,gs

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770,3613975.776,5018846.256,1096.119,gs  
771,3613971.460,5018840.739,1098.087,gs  
772,3613967.030,5018846.928,1094.994,gs  
773,3613963.769,5018848.641,1094.742,gs  
774,3613962.107,5018845.434,1094.997,gs  
775,3613963.949,5018843.739,1097.435,gs  
776,3613960.930,5018846.288,1097.465,gs  
777,3613959.239,5018840.374,1098.563,tb  
778,3613970.802,5018837.807,1099.032,tb  
779,3613954.057,5018855.652,1098.072,tb  
780,3613961.965,5018858.535,1095.769,gs  
781,3613949.875,5018866.162,1096.859,gs tree area  
782,3613955.044,5018867.672,1096.151,gs tree area  
783,3613955.255,5018883.921,1093.416,gs tree area  
784,3613943.465,5018918.517,1093.015,gs tree area  
785,3613933.394,5018936.997,1090.776,gs tree area  
786,3613911.585,5018959.685,1091.337,gs tree area  
787,3613868.565,5019044.401,1090.625,gs tree area  
788,3613852.211,5019050.863,1094.423,gs tree area /fnmisc metal gate  
789,3613853.535,5019034.918,1095.821,gs tree area fnmisc metal gate  
790,3613859.675,5019020.731,1095.425,gs tree area fnmisc metal gate  
791,3613876.239,5018964.256,1097.343,gs tree area fnmisc metal gate  
792,3613890.580,5018957.893,1096.361,gs tree area fnmisc metal gate  
793,3613920.841,5018922.983,1095.778,gs tree area fnmisc metal gate  
794,3613943.475,5018881.684,1096.302,fnmisc metal gate end  
795,3613968.993,5018880.986,1091.290,gs  
796,3613969.551,5018881.159,1089.544,toe  
797,3613970.724,5018881.659,1089.393,fl ditch  
798,3613971.632,5018882.941,1089.078,toe  
799,3613972.801,5018883.778,1091.411,gs  
800,3613954.816,5018919.481,1090.689,gs  
801,3613956.106,5018919.825,1088.691,toe  
802,3613957.007,5018920.019,1088.697,fl ditch  
803,3613958.906,5018920.300,1089.189,toe  
804,3613959.584,5018920.451,1090.594,gs  
805,3613970.374,5018923.566,1091.916,gs  
806,3613973.958,5018925.266,1093.934,gs  
807,3613979.742,5018928.472,1095.541,tb  
808,3613983.523,5018930.978,1095.797,gs grass/field  
809,3614018.643,5018952.037,1098.646,gs field  
810,3614051.270,5018963.602,1101.398,gs field  
811,3613959.659,5018927.288,1090.587,gs  
812,3613959.002,5018927.191,1088.595,toe  
813,3613958.148,5018927.019,1088.373,fl ditch  
814,3613956.868,5018926.895,1088.744,toe  
815,3613956.245,5018926.937,1090.771,gs  
816,3613948.854,5018918.881,1091.063,gs  
817,3613948.932,5018899.867,1093.310,fnb rem to east  
818,3613962.952,5018888.027,1091.435,gs rock boulders



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819,3613958.692,5018887.514,1091.845,gs rock boulders  
820,3613957.078,5018885.927,1092.501,gs rock boulders  
821,3613957.560,5018883.905,1092.833,gs rock boulders  
822,3613965.458,5018881.917,1091.597,gs rock boulders  
823,3613927.595,5018836.390,1099.761,fnb nw-se  
824,3613941.098,5018849.191,1098.905,gs pasture  
825,3613920.557,5018827.444,1100.128,gs grass  
826,3613897.170,5018822.743,1100.708,eog drive  
827,3613896.425,5018809.213,1100.710,eog drive  
828,3613934.409,5018802.135,1100.214,eog drive  
829,3613888.455,5018845.389,1101.478,fnb nw-se  
830,3613870.633,5018849.506,1104.805,fnb nw & elec fence e  
831,3613869.368,5018849.174,1104.692,shed nw cor  
831\_REF1,3613870.215,5018848.641,1104.618,Ref. Pt.  
831\_REF2,3613869.599,5018848.201,1104.766,Ref. Pt.  
832,3613870.022,5018852.629,1105.550,gs  
833,3613872.548,5018866.655,1104.224,gs  
834,3613872.250,5018886.796,1103.520,gs  
835,3613870.097,5018887.635,1104.106,elec fence w&s  
836,3613869.402,5018886.263,1104.480,shed ne cor  
836\_REF1,3613869.268,5018887.254,1104.296,Ref. Pt.  
836\_REF2,3613870.400,5018886.202,1104.663,Ref. Pt.  
837,3613934.402,5018914.542,1095.582,tb  
838,3613928.241,5018909.180,1096.302,fmisc metal gate  
839,3613895.012,5018896.637,1098.778,gs pasture  
840,3613879.374,5018891.216,1101.788,gs pasture  
841,3613875.277,5018890.114,1102.413,gs pasture  
842,3613862.225,5018889.253,1104.454,gs pasture  
843,3613861.728,5018895.209,1103.231,gs pasture  
844,3613950.852,5018938.296,1090.969,gs  
845,3613951.589,5018938.568,1088.827,toe  
846,3613952.589,5018939.255,1088.679,fl ditch  
847,3613953.985,5018940.415,1088.889,toe  
848,3613954.746,5018940.715,1090.287,gs  
849,3613943.171,5018950.650,1090.648,gs  
850,3613942.073,5018950.365,1089.008,toe  
851,3613941.103,5018949.766,1088.751,fl ditch  
852,3613939.340,5018948.655,1089.372,toe  
853,3613938.343,5018948.137,1090.984,gs  
854,3613926.962,5018961.586,1090.328,gs  
855,3613927.520,5018962.323,1088.939,toe  
856,3613928.280,5018963.072,1088.797,fl ditch  
857,3613929.783,5018964.573,1088.954,toe  
858,3613930.375,5018965.339,1090.686,gs  
859,3613934.673,5018969.818,1090.704,gs  
860,3613940.724,5018974.336,1093.751,tb  
861,3613945.223,5018977.703,1094.745,gs grass/field  
862,3613978.781,5018998.936,1098.083,gs field  
863,3614018.397,5019015.036,1102.237,gs field

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864,3613903.114,5019006.637,1090.391,gs broken conc  
865,3613900.991,5019016.361,1090.289,gs broken conc  
866,3613902.952,5019016.550,1090.371,gs broken conc  
867,3613905.003,5019007.240,1090.359,gs broken conc  
868,3613869.961,5019047.513,1090.187,gs  
869,3613872.067,5019048.237,1088.917,toe  
870,3613873.254,5019048.659,1089.036,fl ditch  
871,3613874.834,5019048.978,1089.030,toe  
872,3613876.067,5019049.384,1090.479,gs  
873,3613880.143,5019050.237,1090.434,gs  
874,3613881.868,5019051.091,1089.830,gs  
875,3613895.214,5019054.669,1090.171,gs  
876,3613903.966,5019055.964,1092.232,gs  
877,3613906.868,5019056.664,1093.062,gs field/grass  
878,3613943.189,5019058.102,1096.959,gs field  
879,3613971.624,5019058.291,1099.554,gs field  
880,3613864.750,5019046.035,1091.441,gs  
881,3613857.325,5019045.842,1094.163,gs  
882,3613849.633,5019045.209,1095.486,tb  
883,3613827.036,5019038.847,1100.630,gs pasture  
884,3613819.755,5019035.631,1101.467,gs pasture  
885,3613801.355,5019030.557,1102.008,gs pasture  
886,3613785.597,5019028.276,1102.154,gs pasture  
887,3613783.933,5019025.206,1102.282,shed se cor /fmisc metal gate  
887\_REF1,3613782.936,5019025.118,1102.273,Ref. Pt.  
887\_REF2,3613783.651,5019026.166,1102.290,Ref. Pt.  
888,3613797.215,5019052.938,1099.890,fmisc metal gate  
889,3613807.342,5019078.513,1096.394,fmisc metal gate  
890,3613817.389,5019090.563,1094.853,fmisc metal gate  
891,3613844.775,5019092.911,1092.809,fmisc metal gate  
892,3613874.256,5019099.867,1089.981,fmisc metal gate  
893,3613803.809,5019027.645,1102.945,gs  
894,3613824.465,5019029.233,1101.734,gs  
895,3613824.002,5019027.661,1102.040,shed ne cor  
895\_REF1,3613823.950,5019028.659,1102.020,Ref. Pt.  
895\_REF2,3613825.000,5019027.718,1102.060,Ref. Pt.  
896,3613877.260,5019072.990,1089.776,gs  
897,3613877.818,5019073.072,1088.854,toe  
898,3613879.949,5019072.867,1088.483,fl ditch  
899,3613880.467,5019072.971,1088.210,toe  
900,3613881.144,5019073.321,1089.879,gs  
901,3613883.378,5019073.357,1089.846,gs  
902,3613884.727,5019073.315,1089.605,gs  
903,3613875.462,5019082.546,1089.773,gs  
904,3613874.479,5019082.943,1088.031,toe  
905,3613873.129,5019082.950,1088.064,fl ditch  
906,3613871.510,5019083.102,1088.107,toe  
907,3613870.887,5019083.523,1089.950,gs  
908,3613867.940,5019099.904,1089.604,gs

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909,3613868.994,5019099.985,1088.987,toe  
910,3613871.074,5019099.026,1088.738,fl ditch  
911,3613872.147,5019098.919,1088.823,toe  
912,3613857.895,5019095.943,1090.526,gs  
913,3613843.150,5019091.977,1093.190,gs  
914,3613814.604,5019086.512,1095.181,gs  
915,3613800.616,5019057.842,1099.198,gs  
916,3613822.411,5019068.566,1096.610,gs  
917,3613838.887,5019063.796,1095.537,gs  
918,3613825.962,5019039.825,1100.804,gs  
919,3613796.253,5019042.949,1101.166,gs  
920,3613783.515,5019045.980,1100.854,gs grass  
921,3613786.317,5019093.167,1097.328,gs grass/field  
922,3613816.072,5019090.643,1094.912,gs grass/field  
923,3613833.682,5019095.102,1093.469,gs grass/field  
924,3613846.979,5019121.922,1090.626,gs grass/field  
925,3613839.500,5019155.162,1089.435,gs grass/field  
926,3613822.167,5019186.138,1088.935,gs grass/field  
927,3613802.373,5019203.638,1088.481,gs grass/field  
928,3613863.507,5019118.106,1089.688,trd 4"  
929,3613863.466,5019113.998,1089.828,trd 6"  
930,3613877.813,5019109.243,1089.795,gs  
931,3613878.427,5019108.919,1088.509,toe  
932,3613879.845,5019107.987,1088.620,fl ditch  
933,3613881.280,5019106.840,1088.474,toe  
934,3613881.915,5019106.280,1089.690,gs  
935,3613899.743,5019117.093,1091.048,trd 20" cluster  
936,3613893.409,5019133.484,1089.574,trd 48" cluster  
937,3613896.051,5019136.618,1089.792,trd 6"  
938,3613890.156,5019155.988,1090.608,trd 12" cluster  
939,3613879.041,5019100.457,1089.666,gs  
940,3613895.457,5019102.166,1089.606,gs  
941,3613902.654,5019103.054,1091.238,gs  
942,3613908.416,5019102.936,1093.543,gs grass/field  
943,3613949.343,5019103.329,1097.638,gs field  
944,3613992.015,5019100.941,1102.854,gs field  
945,3613902.444,5019068.304,1091.901,trd 20" cluster  
946,3613957.472,5018910.125,1089.635,fl 6" cmp  
947,3613957.862,5018909.561,1090.645,gs  
948,3613957.261,5018909.378,1090.888,gs  
949,3613956.663,5018910.610,1090.849,gs  
950,3613957.046,5018911.689,1090.681,gs  
951,3613957.870,5018912.730,1089.123,toe  
952,3613959.298,5018913.310,1089.136,fl ditch  
953,3613906.119,5019132.604,1093.299,gs grass/field  
954,3613890.910,5019168.208,1091.131,gs grass/field  
955,3613878.636,5019143.881,1089.296,fl ditch  
956,3613880.028,5019144.945,1089.097,toe  
957,3613879.168,5019144.306,1089.578,gs

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958,3613856.477,5019134.360,1089.308,gs  
959,3613845.357,5019132.280,1090.165,gs grass/field  
960,3613806.738,5019123.751,1093.721,gs field  
961,3613784.592,5019119.362,1095.564,gs field  
962,3613889.842,5019146.951,1089.371,toe  
963,3613895.657,5019151.835,1091.949,gs grass/field  
964,3613940.848,5019161.237,1096.110,gs field  
965,3613979.783,5019166.644,1100.753,gs field  
966,3613977.015,5019211.416,1098.853,gs field  
967,3613973.641,5019230.973,1097.552,gs field  
968,3613965.887,5019254.229,1097.721,gs field  
969,3613919.833,5019243.823,1093.282,gs field  
970,3613927.169,5019225.405,1093.448,gs field  
971,3613934.257,5019202.425,1094.703,gs field  
972,3613887.577,5019188.361,1090.887,gs field  
973,3613875.486,5019209.862,1090.035,gs field  
974,3613842.355,5019244.973,1089.140,gs field  
975,3613837.957,5019233.030,1088.568,gs grass/field  
976,3613870.393,5019197.404,1089.713,gs grass/field  
977,3613872.805,5019196.197,1089.844,gs grass/field  
978,3613868.486,5019194.031,1088.729,gs  
979,3613864.886,5019191.119,1088.581,gs  
980,3613864.095,5019190.951,1088.036,toe  
981,3613863.037,5019190.348,1087.961,fl ditch  
982,3613862.815,5019189.775,1087.915,toe  
983,3613860.162,5019188.918,1088.466,toe  
984,3613859.053,5019188.212,1088.810,gs  
985,3613840.843,5019176.724,1088.272,gs  
986,3613837.750,5019174.885,1088.839,gs  
987,3613828.036,5019174.807,1089.059,gs grass/field  
988,3613788.840,5019162.179,1091.782,gs field  
989,3613767.494,5019154.703,1093.346,gs field  
990,3613815.623,5019214.726,1087.756,trd 10"  
991,3613838.140,5019204.956,1087.782,trd4"  
992,3613826.960,5019201.988,1088.057,trd6"  
993,3613826.581,5019196.907,1088.423,trd 8"  
994,3613845.394,5019194.054,1088.473,trd 6"  
995,3613849.717,5019187.115,1088.777,trd 8"  
996,3613855.649,5019180.468,1088.966,trd 8"  
997,3613855.237,5019181.267,1088.889,trd 6"  
998,3613857.046,5019179.716,1088.867,trd 6"  
999,3613861.588,5019179.462,1088.941,trd 6"  
1000,3613945.789,5019309.474,1098.569,gs field  
1001,3613906.553,5019284.169,1094.066,gs field  
1002,3613866.447,5019258.499,1090.551,gs field  
1003,3613833.788,5019236.167,1088.450,gs field/grass  
1004,3613831.006,5019234.765,1088.578,gs  
1005,3613824.681,5019231.878,1087.990,gs  
1006,3613823.536,5019231.398,1087.633,toe

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1007,3613821.280,5019230.186,1087.439,fl ditch  
1008,3613814.065,5019223.097,1087.498,toe  
1009,3613802.844,5019215.930,1087.707,gs  
1010,3613797.003,5019211.865,1088.314,gs  
1011,3613795.146,5019209.646,1088.550,gs grass/field  
1012,3613756.545,5019187.521,1091.666,gs field  
1013,3613701.864,5019196.270,1093.412,gs field  
1014,3613733.023,5019227.333,1089.592,gs field  
1015,3613748.788,5019243.158,1088.159,gs field/grass  
1016,3613759.480,5019255.729,1086.976,gs  
1017,3613760.018,5019256.290,1086.481,toe  
1018,3613761.452,5019258.051,1086.300,fl ditch  
1019,3613762.858,5019260.256,1086.619,toe  
1020,3613763.444,5019261.169,1087.009,gs  
1021,3613768.394,5019267.079,1087.095,gs  
1022,3613780.237,5019280.335,1087.991,gs grass/field  
1023,3613783.096,5019280.359,1088.060,gs field  
1024,3613816.659,5019311.100,1090.903,gs field  
1025,3613863.579,5019356.692,1094.538,gs field  
1026,3613728.289,5019280.811,1086.056,fl ditch  
1027,3613726.062,5019275.864,1086.440,toe  
1028,3613721.364,5019271.044,1086.977,gs  
1029,3613719.916,5019269.738,1087.650,gs  
1030,3613715.668,5019265.151,1087.768,gs field  
1031,3613695.310,5019222.198,1090.639,gs field  
1032,3613677.501,5019184.689,1094.895,gs field  
1033,3613726.892,5019295.615,1086.458,gs  
1034,3613731.576,5019301.106,1087.360,gs  
1035,3613736.425,5019308.174,1088.227,gs  
1036,3613739.663,5019313.604,1087.545,gs grass/field  
1037,3613764.811,5019351.134,1090.654,gs field  
1038,3613787.995,5019395.963,1094.161,gs field  
1039,3613797.217,5019412.848,1095.590,gs field  
1040,3613728.261,5019437.048,1091.786,gs field  
1041,3613708.703,5019391.386,1088.489,gs field  
1042,3613691.867,5019348.042,1086.062,gs field  
1043,3613689.983,5019343.839,1085.474,gs grass/field  
1044,3613688.994,5019341.675,1085.654,gs  
1045,3613688.401,5019340.053,1086.324,gs  
1046,3613686.320,5019337.226,1086.425,gs  
1047,3613669.413,5019310.309,1084.373,fl ditch  
1048,3613666.175,5019306.114,1084.737,gs  
1049,3613665.385,5019304.497,1085.091,gs  
1050,3613659.650,5019295.328,1086.130,gs field  
1051,3613627.288,5019203.469,1091.186,gs field  
1052,3613716.144,5019331.865,1086.736,gs grass/field  
1053,3613714.768,5019328.660,1087.103,gs  
1054,3613712.713,5019325.139,1088.209,gs  
1055,3613714.415,5019324.090,1087.802,gs

1056,3613712.190,5019319.457,1086.371,gs  
1057,3613707.011,5019314.884,1085.705,gs  
1058,3613706.909,5019314.634,1085.127,toe  
1059,3613706.025,5019313.939,1084.556,fl ditch  
1060,3613704.755,5019313.117,1084.822,toe  
1061,3613703.757,5019312.769,1085.911,gs  
1062,3613699.002,5019305.595,1086.124,gs  
1063,3613698.512,5019303.188,1086.793,gs  
1064,3613695.561,5019298.327,1087.682,gs  
1065,3613694.563,5019295.117,1087.947,gs  
1066,3613687.124,5019281.249,1086.831,gs  
1067,3613680.381,5019287.822,1086.566,gs  
1068,3613689.172,5019298.392,1087.039,gs  
1069,3613685.339,5019298.124,1085.884,gs  
1070,3613679.754,5019298.512,1085.589,gs  
1071,3613680.773,5019304.006,1085.481,gs  
1072,3613688.380,5019306.399,1086.242,gs  
1073,3613690.554,5019308.004,1087.791,gs  
1074,3613694.272,5019309.228,1086.967,gs  
1075,3613699.377,5019308.062,1086.488,gs  
1076,3613698.418,5019306.270,1086.022,gs  
1077,3613695.300,5019307.137,1085.957,gs boulders  
1078,3613694.555,5019305.252,1086.344,gs boulders  
1079,3613695.904,5019301.420,1086.928,gs boulders  
1080,3613690.608,5019300.287,1086.229,gs boulders  
1081,3613690.255,5019303.101,1086.823,gs boulders  
1082,3613689.177,5019305.891,1086.623,gs boulders  
1083,3613681.888,5019301.763,1085.799,gs boulders  
1084,3613682.052,5019299.559,1085.596,gs boulders  
1085,3613687.180,5019311.702,1085.544,gs  
1086,3613690.274,5019312.633,1087.558,gs  
1087,3613694.953,5019314.138,1087.184,gs  
1088,3613698.251,5019315.231,1086.056,gs  
1089,3613700.592,5019322.608,1086.151,gs  
1090,3613695.760,5019328.640,1088.534,gs  
1091,3613693.860,5019331.395,1088.206,gs  
1092,3613686.564,5019334.281,1086.287,gs  
1093,3613688.838,5019340.612,1086.238,gs  
1094,3613690.126,5019342.057,1085.510,gs  
1095,3613698.322,5019338.895,1085.969,gs  
1096,3613698.339,5019334.883,1087.143,gs  
1097,3613698.273,5019331.522,1088.124,gs  
1098,3613704.962,5019320.334,1085.790,gs  
1099,3613705.496,5019322.488,1086.621,gs  
1100,3613707.282,5019326.684,1087.599,gs  
1101,3613708.228,5019328.542,1088.019,gs  
1102,3613710.782,5019333.028,1086.667,gs  
1103,3613703.952,5019333.832,1087.117,gs boulders  
1104,3613702.533,5019336.658,1088.196,gs boulders

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1105,3613705.326,5019336.654,1086.372,gs boulders  
1106,3613706.410,5019339.849,1086.622,gs boulders  
1107,3613703.677,5019339.079,1087.475,gs boulders  
1108,3613702.685,5019339.129,1087.531,gs boulders  
1109,3613701.824,5019340.949,1086.205,gs boulders  
1110,3613699.230,5019338.455,1086.038,gs boulders  
1111,3613699.674,5019335.066,1087.028,gs boulders  
1112,3613700.876,5019335.337,1087.776,gs boulders  
1113,3613727.987,5019319.175,1087.450,gs  
1114,3613726.300,5019316.424,1088.293,gs  
1115,3613717.765,5019313.124,1086.498,gs  
1116,3613712.958,5019302.175,1086.117,gs  
1117,3613712.244,5019301.760,1085.389,toe  
1118,3613711.736,5019301.135,1085.307,fl ditch  
1119,3613710.992,5019300.762,1085.553,toe  
1120,3613710.336,5019299.859,1086.081,gs  
1121,3613706.980,5019296.404,1086.336,gs  
1122,3613701.384,5019288.526,1087.776,gs  
1123,3613695.720,5019277.759,1087.483,gs  
1124,3613702.527,5019314.607,1085.833,gs  
1125,3613703.061,5019314.661,1085.186,toe  
1126,3613704.336,5019315.380,1082.585,fl ditch  
1127,3613705.212,5019316.868,1084.875,toe  
1128,3613705.299,5019316.327,1083.188,fl dtch  
1129,3613706.329,5019314.791,1084.773,toe  
1130,3613705.954,5019315.059,1084.034,fl ditch  
1131,3613704.640,5019313.486,1084.635,toe  
1132,3613705.077,5019314.537,1082.857,fl ditch  
1133,3613719.788,5019285.721,1085.932,fl ditch  
1134,3613724.677,5019292.172,1086.274,fl ditch  
1135,3613714.030,5019297.767,1085.382,fl ditch  
1136,3613714.799,5019298.627,1085.671,toe  
1137,3613712.829,5019297.223,1085.667,toe  
1138,3613711.570,5019297.024,1086.209,gs  
1139,3613714.830,5019300.137,1086.310,gs  
1140,3613728.411,5019289.922,1086.341,trd 6"  
1141,3613751.136,5019289.747,1087.940,trd 6"  
1142,3613754.188,5019270.740,1086.920,trd 6"  
1143,3613913.535,5018956.688,1091.189,gs  
1144,3613911.621,5018956.192,1091.878,gs end fnb rem from west  
1145,3613903.994,5018946.265,1095.784,TB  
1146,3613899.271,5018954.809,1096.137,top 2.0' boulder  
1147,3613899.050,5018947.261,1096.383,fmisc metal gate  
1148,3613877.320,5018934.790,1098.621,gs pasture  
1149,3613865.153,5018927.741,1100.548,gs pasture  
1150,3613837.537,5018916.972,1102.637,se cor horse shed  
1151,3613834.596,5018931.972,1101.319,gs  
1152,3613848.058,5018917.625,1102.299,gs  
1153,3613854.351,5018917.333,1101.646,shed ne cor horse

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1154,3613854.279,5018900.317,1102.845,shed nw cor horse  
1155,3613837.026,5018900.801,1103.308,shed sw cor horse  
1156,3613838.977,5018893.969,1103.834,gs  
1157,3613838.647,5018890.891,1104.172,gs  
1158,3613838.606,5018888.429,1104.773,gs  
1159,3613830.397,5018967.343,1101.374,wfp 6"  
1160,3613835.163,5018953.226,1100.799,gs  
1161,3613848.905,5018962.656,1100.112,gs  
1162,3613840.129,5018968.722,1100.908,wfp 6"  
1163,3613838.869,5018978.184,1100.862,wfp 6"  
1164,3613837.364,5018996.583,1100.730,wfp 6"  
1165,3613830.001,5019028.345,1100.248,gs  
1166,3613831.016,5018998.096,1101.118,gs  
1167,3613863.334,5019004.685,1096.232,fmisc metal gate/ tb  
1168,3613901.782,5019000.089,1090.163,gs  
1169,3613895.998,5019000.221,1090.425,gs  
1170,3613894.338,5019000.705,1089.618,toe  
1171,3613891.248,5019001.008,1089.178,fl ditch  
1172,3613890.562,5019000.268,1089.306,toe  
1173,3613890.018,5018998.814,1090.357,gs  
1174,3613883.876,5018997.286,1090.730,gs  
1175,3613905.447,5019004.522,1090.266,gs  
1176,3613912.766,5019007.594,1091.436,gs  
1177,3613922.841,5019011.948,1093.634,gs grass/field  
1178,3613963.945,5019028.103,1098.008,gs field  
1179,3614009.674,5019041.110,1103.078,gs field  
1180,3613825.018,5019026.449,1102.307,gs  
1181,3613827.335,5018998.862,1102.394,gs  
1182,3613825.911,5018997.376,1102.145,shed nw cor  
1182\_REF1,3613826.379,5018997.554,1102.141,Ref. Pt.  
1182\_REF2,3613826.190,5018996.960,1102.148,Ref. Pt.  
1183,3613704.967,5019315.529,1091.712,top 8" cmp slotted stndpipe 10.17'to fl  
1184,3613660.875,5019321.121,1084.329,trd 6"  
1185,3613605.803,5019360.254,1083.065,trd 6"  
1186,3613676.347,5019442.001,1086.558,gs field  
1187,3613655.010,5019387.646,1085.058,gs field  
1188,3613643.246,5019360.841,1084.564,gs grass/field  
1189,3613640.894,5019354.116,1084.065,gs  
1190,3613639.843,5019352.674,1084.383,gs  
1191,3613630.264,5019335.512,1083.250,gs  
1192,3613629.360,5019334.749,1082.709,fl ditch  
1193,3613628.210,5019332.471,1083.329,gs  
1194,3613620.496,5019318.604,1084.525,gs grass/field  
1195,3613608.576,5019276.909,1087.134,gs field  
1196,3613605.527,5019233.631,1088.718,gs field  
1197,3613560.828,5019262.493,1089.417,gs field  
1198,3613588.013,5019323.648,1085.707,gs field  
1199,3613597.749,5019335.339,1083.601,gs grass/field  
1200,3613602.841,5019331.811,1083.650,wet area lateral?



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1201,3613603.010,5019347.749,1082.949,gs  
1202,3613596.545,5019337.961,1083.185,gs  
1203,3613603.459,5019349.369,1082.661,fl ditch  
1204,3613605.112,5019350.504,1082.907,GS  
1205,3613607.406,5019352.846,1082.857,GS  
1206,3613613.015,5019360.122,1083.820,GS  
1207,3613618.309,5019366.879,1084.188,GS  
1208,3613623.890,5019374.274,1084.296,GS grass/field  
1209,3613646.685,5019414.532,1084.637,GS field  
1210,3613664.489,5019457.438,1085.286,GS field  
1211,3613628.846,5019480.205,1083.251,GS field  
1212,3613603.864,5019439.797,1082.444,GS field  
1213,3613582.762,5019410.390,1083.348,GS grass/field  
1214,3613579.179,5019406.735,1083.925,GS crossing  
1215,3613555.223,5019383.078,1084.836,GS crossing/field  
1216,3613524.865,5019348.767,1085.752,GS field  
1217,3613497.496,5019318.363,1087.870,GS field  
1218,3613563.914,5019367.239,1084.634,GS field  
1219,3613565.525,5019370.057,1084.251,GS grass/field  
1220,3613563.263,5019381.303,1084.527,GS  
1221,3613567.985,5019382.063,1082.595,GS  
1222,3613572.852,5019380.924,1081.899,fl ditch  
1223,3613570.179,5019383.651,1081.430,fl ditch  
1224,3613568.289,5019384.669,1081.345,fl ditch  
1225,3613578.052,5019386.644,1081.621,fl ditch  
1226,3613574.086,5019386.927,1081.378,fl ditch  
1227,3613568.173,5019384.905,1082.451,cmp 12" top 1.08' to fl  
1228,3613572.499,5019388.263,1082.415,cmp 12" top 1.12' to fl  
1229,3613574.628,5019382.877,1081.902,gs  
1230,3613571.306,5019385.690,1081.847,gs  
1231,3613569.013,5019387.841,1083.511,gs  
1232,3613567.963,5019384.938,1082.598,gs  
1233,3613572.058,5019388.799,1082.589,gs  
1234,3613574.033,5019388.767,1081.470,gs  
1235,3613573.773,5019391.412,1083.717,gs  
1236,3613583.795,5019396.086,1083.806,gs  
1237,3613582.635,5019391.832,1082.635,gs  
1238,3613571.198,5019415.241,1083.273,gs  
1239,3613564.859,5019417.470,1081.771,gs  
1240,3613560.990,5019406.187,1081.461,gs  
1241,3613563.340,5019403.602,1082.879,gs  
1242,3613558.585,5019398.555,1082.914,gs  
1243,3613556.275,5019401.261,1080.982,gs  
1244,3613554.801,5019396.454,1082.878,gs  
1245,3613552.644,5019396.666,1080.965,gs  
1246,3613551.729,5019395.274,1083.275,gs  
1247,3613559.126,5019402.855,1081.510,cmp 12" top 0.94' to fl  
1248,3613554.549,5019396.736,1081.419,cmp 12" fl  
1249,3613553.943,5019397.463,1080.867,fl ditch

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1250,3613558.781,5019402.874,1080.474,fl ditch  
1251,3613482.399,5019379.315,1083.665,gs grass/field  
1252,3613489.826,5019387.753,1084.069,gs field  
1253,3613521.937,5019438.375,1081.796,gs grass/field  
1254,3613528.479,5019443.751,1080.795,gs  
1255,3613531.967,5019446.322,1080.530,fl ditch  
1256,3613535.210,5019448.905,1080.933,gs  
1257,3613540.882,5019454.969,1080.829,gs grass/field  
1258,3613550.099,5019464.223,1081.203,gs field  
1259,3613583.444,5019499.263,1081.399,gs field  
1260,3613611.500,5019530.683,1081.368,gs field  
1261,3613570.758,5019562.818,1080.722,gs field  
1262,3613538.369,5019525.872,1080.942,gs field  
1263,3613510.298,5019498.676,1080.429,gs field  
1264,3613505.951,5019495.024,1080.386,gs grass/field  
1265,3613494.173,5019481.340,1079.890,fl ditch  
1266,3613480.466,5019463.259,1082.014,gs  
1267,3613509.202,5019448.636,1081.888,gs grass/field  
1268,3613493.001,5019456.178,1082.145,gs grass/field  
1269,3613485.945,5019453.316,1082.437,gs grass/field  
1270,3613483.314,5019418.302,1082.825,gs grass/field  
1271,3613479.317,5019418.308,1082.510,fnb start  
1272,3613477.404,5019441.276,1082.410,fnb e-w  
1273,3613477.058,5019454.341,1082.293,fnb e-w  
1274,3613475.652,5019459.067,1081.663,tped  
1275,3613475.700,5019463.047,1081.280,sign tele cable n-s  
1276,3613475.551,5019452.352,1082.014,sign tele cable e-w  
1277,3613475.756,5019465.513,1081.660,fnb end  
1278,3613476.398,5019475.423,1081.041,gs  
1279,3613475.394,5019483.836,1079.526,gs  
1280,3613474.800,5019494.280,1079.756,gs  
1281,3613473.367,5019501.571,1080.305,gs  
1282,3613471.923,5019530.891,1080.058,gs  
1283,3613473.075,5019537.898,1079.454,gs grass/field  
1284,3613468.006,5019566.409,1079.115,gs grass/field  
1285,3613479.648,5019566.869,1079.870,gs field  
1286,3613506.955,5019523.461,1080.555,gs field  
1287,3613499.799,5019515.171,1080.404,gs field  
1288,3613494.869,5019511.655,1079.702,gs field  
1289,3613493.228,5019510.839,1080.003,gs grass/field  
1290,3613490.433,5019508.380,1079.967,gs  
1291,3613479.915,5019499.480,1080.449,gs  
1292,3613468.004,5019465.071,1079.377,toe  
1293,3613460.265,5019466.283,1079.613,fl ditch  
1294,3613457.849,5019496.484,1078.992,fl ditch  
1295,3613461.411,5019496.133,1079.258,gs  
1296,3613472.749,5019491.639,1079.677,gs  
1297,3613458.809,5019528.258,1078.391,fl ditch  
1298,3613461.599,5019528.633,1078.877,gs

1299,3613469.930,5019527.856,1079.762,gs  
1300,3613451.944,5019526.565,1079.316,toe  
1301,3613453.693,5019498.919,1079.271,toe  
1302,3613452.945,5019457.063,1079.770,toe  
1303,3613531.948,5019422.480,1081.624,gs gass/field  
1304,3613526.547,5019415.922,1082.863,gs field  
1305,3613545.405,5019391.280,1084.026,gs field  
1306,3613547.398,5019396.518,1082.793,gs grass/field  
1307,3612764.794,5018801.150,1105.952,915 -5'5"  
1308,3612812.220,5018806.143,1106.680,915 -6'2"  
1309,3612414.793,5018819.746,1113.654,700 -4'  
1310,3612443.454,5018819.382,1113.125,700 -4'  
1311,3612473.410,5018818.743,1112.699,700 -4'  
1312,3612523.979,5018882.285,1105.783,300 ditch  
1313,3612484.796,5018884.515,1106.512,300 ditch  
1314,3612440.823,5018881.763,1107.129,300 ditch  
1315,3612412.483,5018881.955,1107.802,300 ditch  
1316,3613346.475,5018795.561,1100.371,422 36"  
1317,3613346.982,5018868.428,1098.227,422 36"  
5000,3614261.810,5019730.206,1093.312,GS  
5001,3614262.867,5019813.752,1093.046,GS  
5002,3614263.452,5019898.063,1092.785,GS  
5003,3614263.971,5019983.574,1093.821,GS  
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5007,3614182.990,5020060.964,1090.873,GS  
5008,3614182.412,5019977.330,1091.370,GS  
5009,3614182.008,5019897.406,1092.429,GS  
5010,3614180.502,5019812.912,1093.462,GS  
5011,3614179.442,5019733.819,1094.902,GS  
5012,3614109.562,5019737.983,1097.668,GS  
5013,3614110.797,5019819.606,1096.620,GS  
5014,3614111.328,5019901.060,1098.309,GS  
5015,3614112.771,5019980.678,1096.840,GS  
5016,3614114.161,5020062.643,1094.420,GS  
5017,3614116.567,5020147.352,1092.369,GS  
5018,3614051.186,5020145.656,1098.194,GS  
5019,3614047.936,5020066.945,1102.791,GS  
5020,3614044.422,5019987.808,1104.676,GS  
5021,3614043.965,5019909.577,1103.854,GS  
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5023,3614042.337,5019746.105,1100.718,GS  
5024,3613994.573,5019746.843,1101.647,GS  
5025,3613995.051,5019828.852,1101.989,GS  
5026,3613996.155,5019909.847,1103.372,GS  
5027,3613996.644,5019991.654,1103.579,GS  
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5029,3613996.883,5020147.085,1101.678,GS

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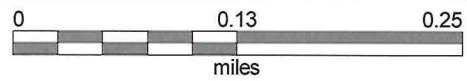
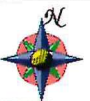
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5031,3613940.800,5020070.100,1102.305,GS  
5032,3613938.065,5019990.718,1100.481,GS  
5033,3613937.403,5019912.996,1100.478,GS  
5034,3613937.682,5019834.054,1101.404,GS  
5035,3613936.651,5019756.875,1101.061,GS  
5036,3613881.337,5019760.681,1098.378,GS  
5037,3613882.193,5019824.092,1099.388,GS  
5038,3613882.846,5019899.195,1096.841,GS  
5039,3613883.221,5019955.762,1095.445,GS  
5040,3613883.924,5020036.011,1096.703,GS  
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5043,3613812.579,5020097.107,1097.924,GS  
5044,3613811.834,5020056.288,1098.214,GS  
5045,3613811.060,5019985.210,1094.567,GS  
5046,3613810.656,5019937.236,1093.609,GS  
5047,3613809.675,5019861.816,1094.941,GS  
5048,3613809.384,5019781.882,1094.175,GS  
5049,3613991.776,5019864.018,1102.340,GS ROCK+SAND  
5050,3613965.708,5019908.137,1102.094,GS ROCK+SAND  
5051,3613955.033,5019945.627,1102.019,GS ROCK+SAND  
5052,3613952.820,5019995.109,1102.170,GS ROCK+SAND  
5053,3613936.631,5020050.549,1101.719,GS ROCK+SAND  
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5056,3614047.998,5020115.465,1099.764,GS ROCK+SAND  
5057,3614079.114,5020077.947,1098.220,GS ROCK+SAND  
5058,3614097.364,5020026.141,1097.658,GS ROCK+SAND  
5059,3614105.084,5019966.763,1098.312,GS ROCK+SAND  
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5062,3614021.639,5019877.894,1103.224,GS ROCK+SAND  
5063,3614022.456,5019928.090,1104.240,GS ROCK+SAND  
5064,3614022.948,5019987.074,1104.599,GS ROCK+SAND  
5065,3614024.613,5020045.260,1103.467,GS ROCK+SAND  
5066,3613984.368,5020031.389,1102.800,GS ROCK+SAND  
5067,3613975.470,5019985.187,1103.155,GS ROCK+SAND  
5068,3614059.203,5019958.840,1104.287,GS ROCK+SAND  
5069,3614061.247,5020004.518,1103.732,GS ROCK+SAND  
5070,3614055.689,5020044.156,1103.064,GS ROCK+SAND  
7000,3613579.865,5019462.547,1078.897,top vcp 8  
7001,3613674.655,5019350.617,1081.694,top 8 hdp y  
7002,3613675.868,5019350.258,1081.759,top 8 hdp y  
7003,3613676.022,5019348.805,1081.738,top 8 hdp y  
7004,3614250.041,5018779.988,1096.868,top 8 vcp  
7005,3613685.580,5019350.430,1082.064,new tile  
7006,3613700.679,5019344.314,1085.688,new tile  
7007,3613730.028,5019328.550,1086.808,new tile



7008,3613752.394,5019311.642,1088.533,new tile  
7009,3613773.964,5019293.030,1088.754,new tile  
7010,3613789.407,5019280.881,1088.219,new tile  
7011,3613808.847,5019263.438,1088.268,new tile  
7012,3613832.970,5019242.188,1088.587,new tile  
7013,3613860.565,5019215.479,1089.374,new tile  
7014,3613882.569,5019190.212,1090.438,new tile  
7015,3613898.726,5019165.625,1091.860,new tile  
7016,3613909.531,5019138.780,1093.296,new tile  
7017,3613917.201,5019106.245,1093.704,new tile  
7018,3613921.141,5019070.009,1095.045,new tile  
7019,3613927.213,5019034.050,1094.237,new tile  
7020,3613942.174,5018999.362,1095.181,new tile  
7021,3613961.557,5018969.339,1095.660,new tile  
7022,3613988.417,5018936.550,1096.676,new tile  
7023,3614013.864,5018912.466,1096.820,new tile  
7024,3614047.433,5018889.832,1097.166,new tile  
7025,3614087.517,5018877.092,1095.892,new tile  
7026,3614125.690,5018876.057,1097.743,new tile  
7027,3614161.525,5018873.285,1097.156,new tile  
7028,3614196.316,5018860.867,1098.113,new tile  
7029,3614255.910,5018771.108,1096.921,top 8 vcp  
7030,3614249.764,5018780.178,1096.828,top 8 vcp  
7031,3613676.534,5019346.573,1081.843,new tile p  
7032,3613676.679,5019324.836,1083.559,new tile p  
7033,3613681.161,5019295.957,1085.048,new tile p  
7034,3613689.533,5019271.298,1086.807,new tile p  
7035,3613709.441,5019247.063,1088.417,new tile p  
7036,3613739.804,5019226.340,1089.385,new tile p  
7037,3613774.046,5019209.303,1088.773,new tile p  
7038,3613801.344,5019192.523,1088.752,new tile p  
7039,3613826.404,5019167.836,1089.278,new tile p  
7040,3613842.619,5019139.036,1089.929,new tile p  
7041,3613849.116,5019110.349,1090.853,new tile p  
7042,3613852.137,5019082.239,1090.487,new tile p  
7043,3613854.504,5019052.224,1093.210,new tile p  
7044,3613860.490,5019018.711,1094.495,new tile p  
7045,3613867.880,5018985.902,1095.593,new tile p  
7046,3613879.366,5018956.504,1097.143,new tile p  
7047,3613896.399,5018927.148,1097.042,new tile p  
7048,3613916.208,5018898.530,1096.250,new tile p  
7049,3613932.910,5018876.059,1097.326,new tile p  
7050,3613958.478,5018843.829,1096.870,new tile p  
7051,3613975.811,5018821.215,1098.978,new tile p  
7052,3614215.414,5018849.881,1098.880,new tile  
7054,3613898.954,5018863.533,1094.111,new tile 6 p  
7055,3613925.589,5018885.676,1093.722,new tile p tee  
7056,3614250.075,5018779.967,1096.921,top 8"hdpe  
7057,3614229.986,5018836.936,1095.529,top 8"hdpe

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7058,3614241.373,5018820.305,1095.939,top 8"hdpe  
7059,3614250.678,5018802.281,1096.271,top 8"hdpe  
7060,3614253.030,5018785.078,1096.516,top 8"hdpe  
7061,3614252.033,5018777.022,1097.033,top 8"hdpe y  
7062,3614216.578,5018848.802,1095.306,top 8"hdpe y  
7063,3614224.333,5018829.493,1095.495,top 8"hdpe  
7064,3614224.684,5018828.806,1095.282,top 6"hdpe  
7065,3614229.193,5018819.740,1095.409,top 6"hdpe  
7066,3614230.569,5018816.411,1095.378,top 6"hdpe  
7067,3614233.028,5018803.728,1095.543,top 6"hdpe  
7068,3614237.005,5018790.298,1095.653,top 6"hdpe  
7069,3613983.010,5018807.874,1097.719,top 6"vcp  
7070,3613993.671,5018799.214,1097.379,top 6"hdpe  
7071,3613975.996,5018820.566,1095.489,top 6"hdpe  
7072,3613985.617,5018810.178,1096.722,top 6"tee



Sandy Trampe  
Jackson 26

- 4 inch existing
- 4 inch muck tile
- 4 inch tile
- 5 inch existing
- 5 inch tile
- 6 inch existing
- 6 inch tile
- 7 inch existing
- 8 inch existing
- 8 inch tile
- 10 inch existing
- 10 inch tile
- 12 inch existing
- 12 inch tile
- existina tile / other