

AGENDA
REGULAR DRAINAGE MEETING
April 17, 2019
8:30AM

1. Open Meeting
2. Approve Agenda
3. Approve Claims For Payment

DD 21 Reclassification	Clapsaddle-Garber Assoc	4,276.20
DD 38 Ongoing Repairs	Williams Excavation LLC	7,425.00
DD 38 Clean silt out of setting holes	Williams Excavation LLC	746.00
DD 56 Generation of Supplemental Report	Clapsaddle-Garber Assoc	2,899.00
DD 123 Construction Ovserv for Repair to Sinkhole	Clapsaddle-Garber Assoc	6,865.35
DD 131 Review & Attendance for Reclassification	Clapsaddle-Garber Assoc	1,413.80
DD 148 Bid Letting for Open Ditch Cleanout	Clapsaddle-Garber Assoc	1,490.11
4. DD 26 - Discuss, With Possible Action, Project Update
5. DD 26 Lat 4 - Discuss, With Possible Action, Engineers Concern On 2015 Repair Summary

Documents:

[DRAINAGE_DD26L4.PDF](#)
6. DD 148 - Discuss, With Possible Action, Repair Summary

Documents:

[DD148WO227.PDF](#)
7. DD 57 And 134 - Discuss, With Possible Action, Outstanding Scans
8. Drainage District Signs- Update
9. Other Business
10. Adjourn Meeting



PROJECT: REPAIRS TO MAIN OPEN DITCH,
DD#148 AND REPAIRS TO MAIN
TILE, DD#146 & DD#165 HARDIN CO.

DATE: MARCH 20, 2019

ENGINEER: CLAPSADDLE-GARBER ASSOCIATES

McDowell and Sons.
10214 Hwy 65
Iowa Falls, IA 50126

Pederson Excavating
2204 K Rd.
Humboldt, IA 50548

Engineer's Estimate: \$200,000

Item No.	Description	Estimated Quantity	Unit	Unit Price	Bid Price	Unit Price	Bid Price
DISTRICT 148 (BASE BID)							
1	Cleanout of Open Ditch	63.5	STA	420.00	\$ 26,670.00	630.00	\$ 40,005.00
2	Structure Cleanout	1	LS	1,500.00	\$ 1,500.00	500.00	\$ 500.00
3	60" Ø Field Crossing (CMP)	40	LF	285.00	\$ 11,400.00	250.00	\$ 10,000.00
4	Outlet Repair (6"Ø and 8"Ø) (CMP)	560	LF	61.00	\$ 34,160.00	40.00	\$ 22,400.00
5	Outlet Repair (10"Ø and 12"Ø) (CMP)	200	LF	75.00	\$ 15,000.00	45.00	\$ 9,000.00
6	Outlet Repair (15"Ø and 18"Ø) (CMP)	200	LF	85.00	\$ 17,000.00	55.00	\$ 11,000.00
7	Surface Drain (18"Ø) (CMP)	390	LF	97.00	\$ 37,830.00	55.00	\$ 21,450.00
8	Surface Drain (24"Ø) (CMP)	60	LF	100.00	\$ 6,000.00	65.00	\$ 3,900.00
9	Surface Drain (36"Ø) (CMP)	60	LF	160.00	\$ 9,600.00	55.00	\$ 3,300.00
10	Permanent Seeding	63.5	STA	1.50	\$ 95.25	1.00	\$ 63.50
11	Tree, Brush and Stump Removal	63.5	STA	27.00	\$ 1,714.50	30.00	\$ 1,905.00
12	Bank Stabilization (Rip-rap)	200	TON	57.00	\$ 11,400.00	60.00	\$ 12,000.00
13	Field Crossing Removal	25	LF	40.00	\$ 1,000.00	8.00	\$ 200.00
14	Swale and Washout Repair of Open Ditch	20	STA	50.00	\$ 1,000.00	100.00	\$ 2,000.00
DRAINAGE 148 (BASE BID) TOTAL (Bid Items 1-14 Inclusive)				\$ 173,590.25			\$ 142,670.00
DISTRICT 148 (ALTERNATE BID)							
1ALT	Cleanout of Open Ditch	63.5	STA	420.00	\$ 26,670.00	630.00	\$ 40,005.00
2ALT	Structure Cleanout	1	LS	1,500.00	\$ 1,500.00	500.00	\$ 500.00
3ALT	60" Ø Field Crossing (CMP)	40	LF	285.00	\$ 11,400.00	250.00	\$ 10,000.00
4ALT	Outlet Repair (6"Ø and 8"Ø) (SDR)	560	LF	57.00	\$ 31,920.00	40.00	\$ 22,400.00
5ALT	Outlet Repair (10"Ø and 12"Ø) (SDR)	200	LF	67.00	\$ 13,400.00	45.00	\$ 9,000.00
6ALT	Outlet Repair (15"Ø and 18"Ø) (SDR)	200	LF	79.00	\$ 15,800.00	62.50	\$ 12,500.00
7ALT	Surface Drain (18"Ø) (SDR)	390	LF	91.00	\$ 35,490.00	62.50	\$ 24,375.00
8ALT	Surface Drain (24"Ø) (SDR)	60	LF	112.00	\$ 6,720.00	90.00	\$ 5,400.00
9ALT	Surface Drain (36"Ø) (SDR)	60	LF	167.00	\$ 10,020.00	150.00	\$ 9,000.00
10ALT	Permanent Seeding	63.5	STA	31.50	\$ 2,000.25	60.00	\$ 3,810.00
11ALT	Tree, Brush and Stump Removal	63.5	STA	20.00	\$ 1,270.00	30.00	\$ 1,905.00
12ALT	Bank Stabilization (Rip-rap)	200	TON	50.00	\$ 10,000.00	60.00	\$ 12,000.00
13ALT	Field Crossing Removal	25	LF	40.00	\$ 1,000.00	8.00	\$ 200.00
14ALT	Swale and Washout Repair of Open Ditch	20	STA	50.00	\$ 1,000.00	100.00	\$ 2,000.00
DISTRICT 148 (ALTERNATE BID) TOTAL (Bid Items 1ALT-14ALT Inclusive)				\$ 161,900.25			\$ 151,095.00
DISTRICT 148 (ADD ALT #1 BID)							
101ADD	Seeding Warranty	1	LS	\$ 0.00	\$ 1,000.00	\$ 200.00	\$ 2,000.00
DISTRICT 148 (ADD ALT#1 BID) TOTAL (Bid Item 101ADD Inclusive)				\$ 1,000.00			\$ 2,000.00
DISTRICT 148 (ADD ALT #2 BID)							
201ADD	CMP Flared End (18"Ø)	13	EA	750.00	\$ 9,750.00	350.00	\$ 4,550.00
202ADD	CMP Flared End (24"Ø)	2	EA	870.00	\$ 1,740.00	410.00	\$ 820.00
203ADD	CMP Flared End (36"Ø)	2	EA	1,330.00	\$ 2,660.00	815.00	\$ 1,630.00
DISTRICT 148 (ADD ALT#2 BID) TOTAL (Bid Items 201ADD-203ADD Inclusive)				\$ 14,150.00			\$ 7,000.00
DISTRICT 146 BID							
301	Outlet Repair (15"Ø and 18"Ø) (CMP)	40	LF	86.00	\$ 3,440.00	55.00	\$ 2,200.00
302	Concrete Collar	1	EA	700.00	\$ 700.00	50.00	\$ 50.00
303	Tile Removal	40	LF	10.00	\$ 400.00	200.00	\$ 200.00
304	Tree, Brush and Stump Removal	1	LS	2,000.00	\$ 2,000.00	200.00	\$ 200.00
305	Bank Stabilization (Rip-rap)	50	TON	50.00	\$ 2,500.00	60.00	\$ 3,000.00
306	Permanent Seeding	1	LS	400.00	\$ 400.00	200.00	\$ 200.00
307	Seeding Warranty	1	LS	800.00	\$ 800.00	100.00	\$ 100.00
DISTRICT 146 BID TOTAL (Bid Items 301-307 Inclusive)				\$ 10,240.00			\$ 5,870.00
DISTRICT 165 BID							
401	Outlet Repair (24"Ø) (CMP)	40	LF	100.00	\$ 4,000.00	75.00	\$ 3,000.00
402	18"Ø RCP Tile	25	LF	70.00	\$ 1,750.00	100.00	\$ 2,500.00
403	Salvage and Reuse Fieldstone	1	LS	1,000.00	\$ 1,000.00	100.00	\$ 100.00
404	Concrete Collar	2	EA	700.00	\$ 1,400.00	50.00	\$ 100.00
405	Tile Removal	65	LF	10.00	\$ 650.00	200.00	\$ 200.00
406	Tree, Brush and Stump Removal	1	LS	400.00	\$ 400.00	200.00	\$ 200.00
407	Permanent Seeding	1	LS	800.00	\$ 800.00	100.00	\$ 100.00
408	Seeding Warranty	1	LS	2,750.00	\$ 2,750.00	3,000.00	\$ 3,000.00
409	Bank Stabilization (Rip-rap)	50	TON	55.00	\$ 2,750.00	60.00	\$ 3,000.00
410	18"Ø x 22 1/2" RCP Bend	1	EA	600.00	\$ 600.00	600.00	\$ 600.00
411	18"Ø x 11 1/2" RCP Bend	1	EA	600.00	\$ 600.00	600.00	\$ 600.00
DISTRICT 165 BID TOTAL (Bid Items 401-411 Inclusive)				\$ 14,950.00			\$ 10,035.00

Not will to do only this

My Estimate was \$10k-\$15k

My Estimate was \$10k-\$20k



Drainage Work Order Request For Repair Hardin County

Date: 10/25/2018

Work Order #: WO00000227

Drainage District: Drainage Districts \DD 148 (51160)

Sec-Twp-Rge: 07-89-19 Qtr Sec: NE SE

Location/GIS: 89-19-07-400-002

Requested By: Ross Enslin

Contact Phone: (641) 425-6307

Contact Email: ross.enslin@gmail.com

Landowner (if different): Rameyer Trust & Pat Knipfel

Description: DD 148 Main - Blowout in NE SE halfway between road and property line. Marked with white flags. Crops are out.

Repair labor, materials and equipment: _____

Repaired By: _____ Date: _____

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

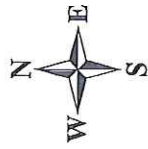
Hardin County Auditor's Office
Attn: Drainage Clerk
1215 Edgington Ave, Suite 1
Eldora, IA 50627
Phone (641) 939-8111
Fax (641) 939-8245

For Office Use Only

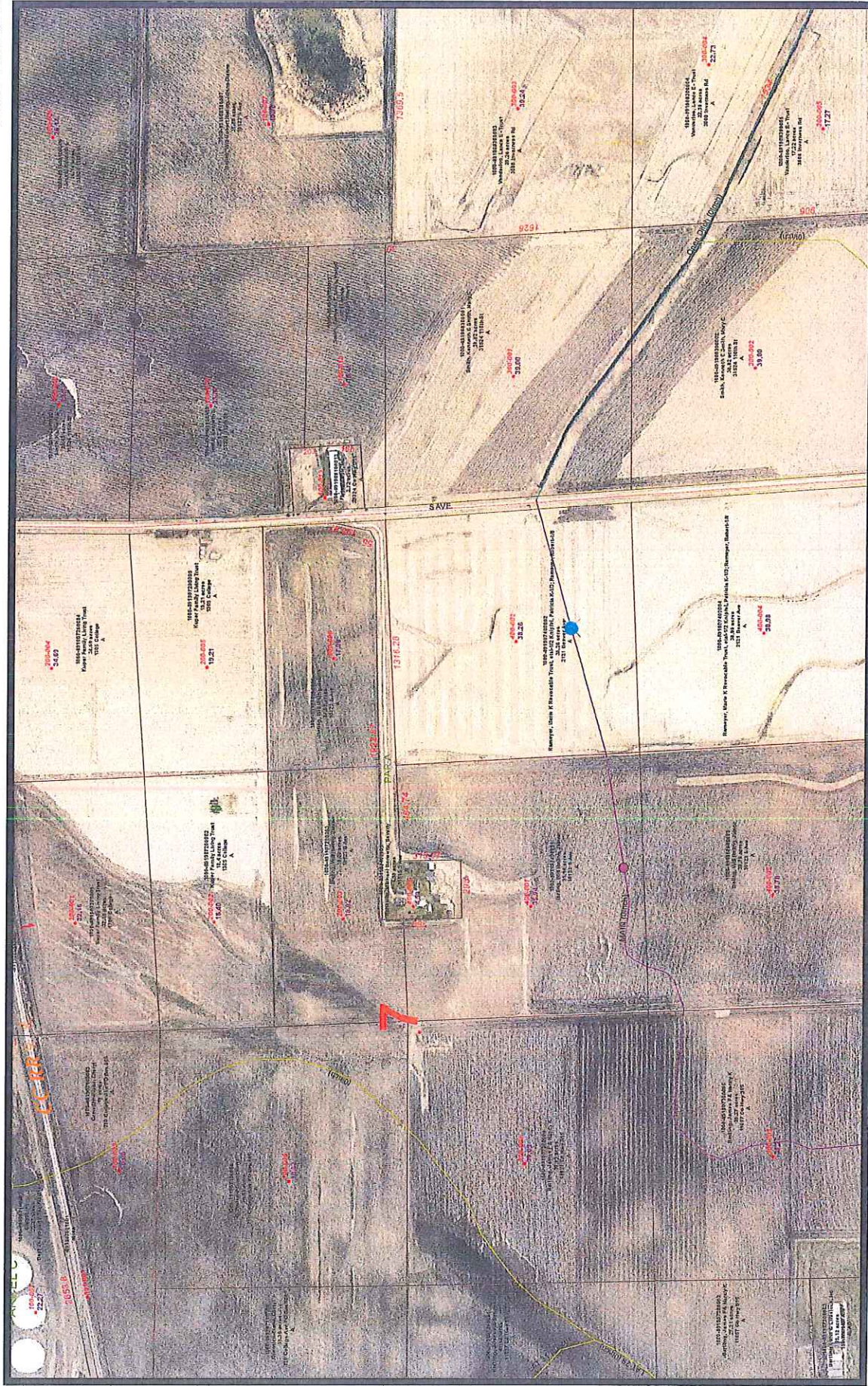
Approved: _____ Date: _____



Hardin County Auditor's Office



Date: 10/25/2018



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

Drainage District:

#148

Repair Summary:

- Landowner in the NE¼ SE¼ Section 7 Township 89 North, Range 19 West reported a blowout/sinkhole in middle of field.
- Upon excavation at sinkhole/blowout, first contractor found approximately 15-feet of 24-inch VCP Main tile with large joint gaps allowing soil to infiltrate the tile. Tile was mostly full of slowly moving water due to siltation in Main Open Ditch to the downstream.
- Removed approximately 15-feet of old tile and site was left idle by first contractor between November to January.
- At January 16, 2019 Regular Drainage Meeting, District Trustees decided to give work order to another contractor.
- In March, tile repair resumed with an alternative contractor. Contractor repaired with rock bedding and backfill, dual wall polypropylene tile, and ¾ concrete collars at each end of repair. Excavation was partially backfilled with on-site soil, but remainder of spoil pile was frozen.
- In April, backfilling of excavation was completed by original contractor with un-frozen soil.

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

See attached Tabulated Contractor Time and Materials Sheet.

Additional Actions Recommended:

The Main Open Ditch has silt levels above the Main Tile Outlet that is restricting proper drainage. It is in our opinion that the cost of silt removal and Main Open Ditch repair will exceed \$50,000 and will require an Engineer's Report and public hearing.



Tabulated Contractor Time and Materials

Date	Totals	11/1/2018	3/11/2019	4/3/2019
Workman (hrs)	24.75	6.5	18	0.25
Backhoe (hrs)	9.50	3.25	6	0.25
Dump Truck (hrs)	4.00		4	
24" Dual Wall PP Tile (ft.)	13.50		13.5	
1" Clean Rock Bedding (ton)	5		5	
Concrete for Concrete Collars (cu. Yd)	1		1	
Concrete Collar (ea.)	2		2	

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

2018-11-01

DAYS OF WEEK:

S M T W T F S

SHEET NO.

1 OF 1

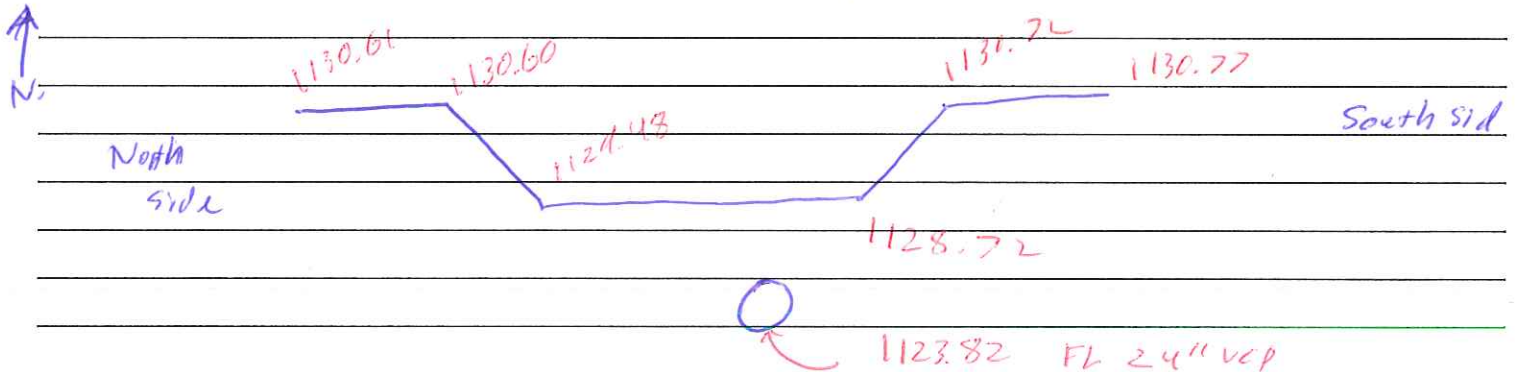
PROJECT NUMBER: 6952.1
COUNTY, ROUTE, ROAD: S AVE
LOCATION: PD-148

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

11:00am - moved to site with 2man crew + BackHoe

11:52am - found 24" VCP tile with 2" gap.
- exposed 20' of VCP tile found large joints at every joint, tile is 90% full of water moving very slowly

1:00 - Found out let of 24" in Head wall



- out let is completely submerged

2:15 - contractor left after deciding to remove 16' of pipe.

totals - 2man crew - 3.25 hr
BackHoe - 3.25 hr

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 _____









CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

2018-11-13

DAYS OF WEEK:

S M W T F S

SHEET NO.

1 OF 1

PROJECT NUMBER:

6452-1

COUNTY, ROUTE, ROAD:

DP-148

LOCATION:

S Ave

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

19° windy cold

9:30am - Arrived at site. No one around.

9:45am - Randy Brown showed up. No pipe.

- Attempted to start Back Hoe, Fuel gelled up.

- will get 20' stick of 24" pipe.

10:30 - Left job site. No work done.

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

Observer's Signature:



Date Prepared:

11-13-2018

Reviewed by:

Engineer

Date Reviewed _____

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

2018-11-14

DAYS OF WEEK:

S	M	T	W	T	F	S
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SHEET NO.

1 OF 1

PROJECT NUMBER:

6952.1

COUNTY, ROUTE, ROAD:

DD-146

LOCATION:

S AVE

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

1:30 - arrive @ site - still no pipe!

- Randy Brown called to get pipe from supplier

- said they should have pipe next Friday

2:15 - Left job site

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

Observer's Signature:



Date Prepared:

2018-11-14

Reviewed by:

Engineer

Date Reviewed _____

CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

3/11/19

DAYS OF WEEK:

S M T W T F S

SHEET NO.

1 OF 1

PROJECT NUMBER:

6952.1

COUNTY, ROUTE, ROAD:

DD 148 HARDIN Co.

LOCATION:

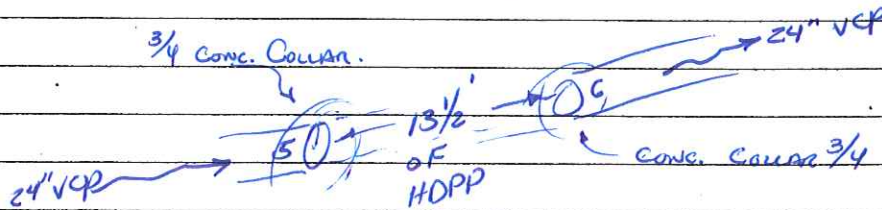
S. AVE, WEST

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

Sunny, 25°, CALM, 2' SNOW @ JOB SITE.

3 man crew shows up with RUBBER TIRE EXTENDER HOR. FOUND DRIVE WITH FARMERS HELP AND STARTED TO CLEAR A ENTRANCE TO FIELD 9:00 AM.

LOOKS LIKE ZEB S. HAD SHOT TOP OF 24" VCP @ LAST TIME RANDY BROWN TRIED TO FIX TILE. ALSO OLD CONC. INTAKE RING/RISER WAS LEFT OUT IN FIELD.



10:00 A.M., FINALLY GOT A PATH TO BLOW, AND SNOW IS REMOVED AROUND BLOW-OUT.

12:30, CREW HAS 13 1/2' OF HDPP GRAY PIPE INSTALLED WITH 5 TON ROCK OVER AND AROUND. MAY HAVE TO STILL IMPORT SOME BLACK DIRT TO FILL HOLE. NOT MUCH EXISTING DIRT IN FROZEN PIPES.

1:15, CONC. TRUCK C.I. ARRIVES WITH 1 YD. CONC., POURS THE (2) CONC COLLARS WITH MESH 1:30 DONE AND TRUCK LEAVES. RUSS USED BACKHOE TO BACKFILL REMAINING ROCK AND LOOSE DIRT IN HOLE. MOST DIRT IS FROZEN COMPLETELY THAT WAS IN PIPES FROM PREVIOUS EXCAVATION BY RANDY BROWN.

THERE MAY HAVE BEEN 1000# OF ROCK FROM RANDY BROWN ON JOB SITE.

3 MAN CREW + BACKHOE = HRS. (DUMP TRUCK HAULED AWAY CONC. INT. FROM PREVIOUS JOB)

1 yd. CONC.

WIRE MESH / FABRIC

5 TON 1" CLEAN ROCK

13 1/2' OF HDPP GRAY PIPE.

* FURTHER ACTION: NEED TO COME BACK AND FINISH BACKFILLING.

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

Observer's Signature:

Date Prepared:

3/11/19

Reviewed by:

Engineer

Date Reviewed

TAKING OUT OLD TILE



13 1/2' OF HDPP (LEFT OVER FROM DD7 F JOB)



13 1/2' OF HDPP PIPE USED IN REPAIR



5-6 TON OF 1" STONE FOR BREDDING



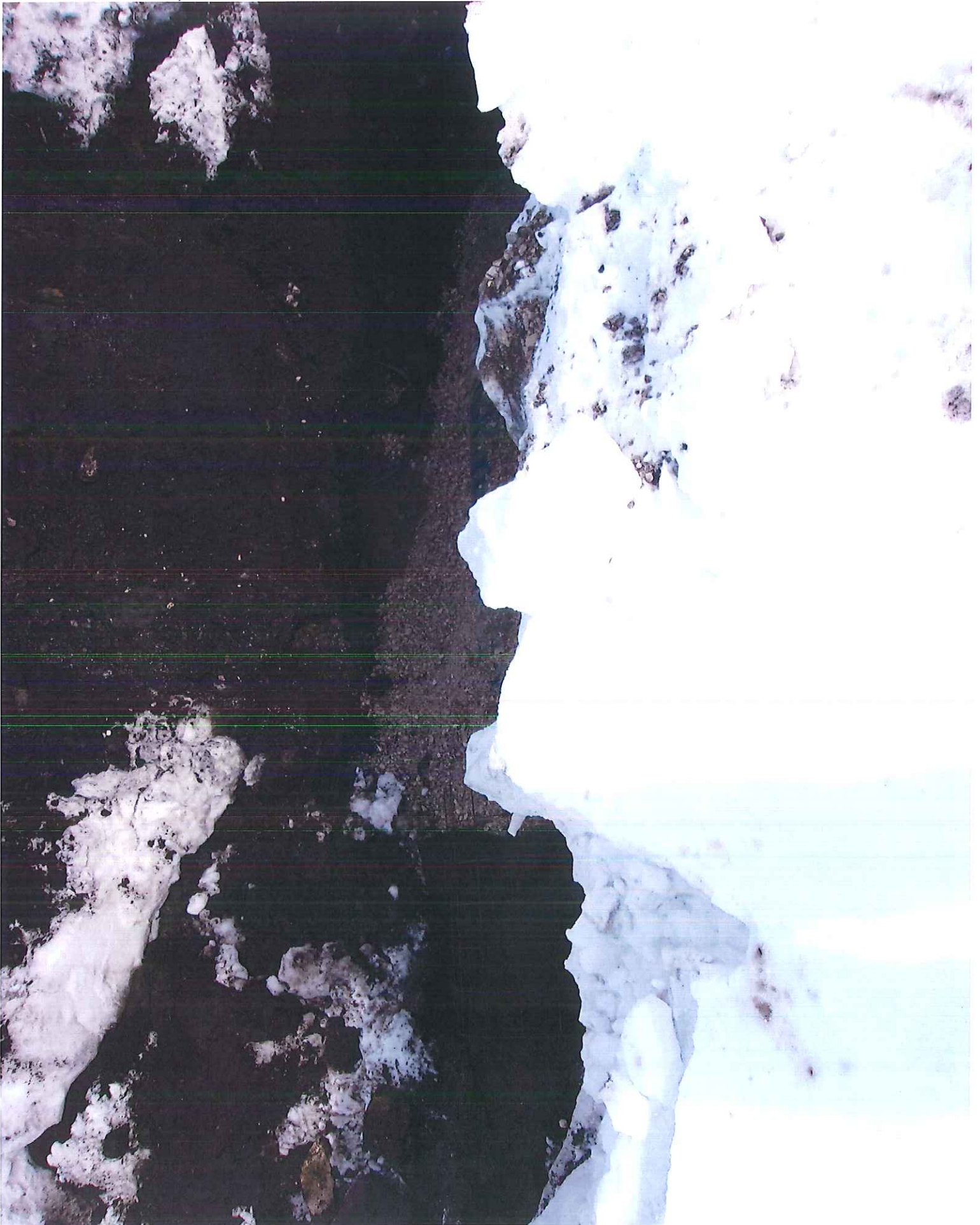
"Chomping" Rock Around HOPP Pipe



C.I. TRUCK ARRIVES WITH A BIG YARD OF CONCL.



COWARS READY FOR CONC.



ROCK / FABRIC / WIRE MESH, ALL USED IN HDPP INSTALLATION



1 yd. CONC. DELIVERED BY C.I. TO JOB SITE



BACKHOE OPENING UP FARM DRIVE TO FIELD



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

4/3/19

DAYS OF WEEK:

S M T **W** T F S

SHEET NO.

1 OF 1

PROJECT NUMBER: _____
COUNTY, ROUTE, ROAD: 6952-1
LOCATION: DD 148 H.
S. Ave To West

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

SUNNY, 40°, CALM, MUDDY CONDITIONS BUT DRYING.
9:15, ARRIVED @ REPAIR SITE, BACKHOE AND OPERATOR ARE FILLING
REPAIR HOLE ORIGINALLY DUG BY RANDY BROWN, REPAIRED BY McDOWELL CONST. AND
BACKFILLED. 9:30 BACKHOE IS 1/2 DONE, USING BUCKET COMPACTOR TO GET CURT IN.

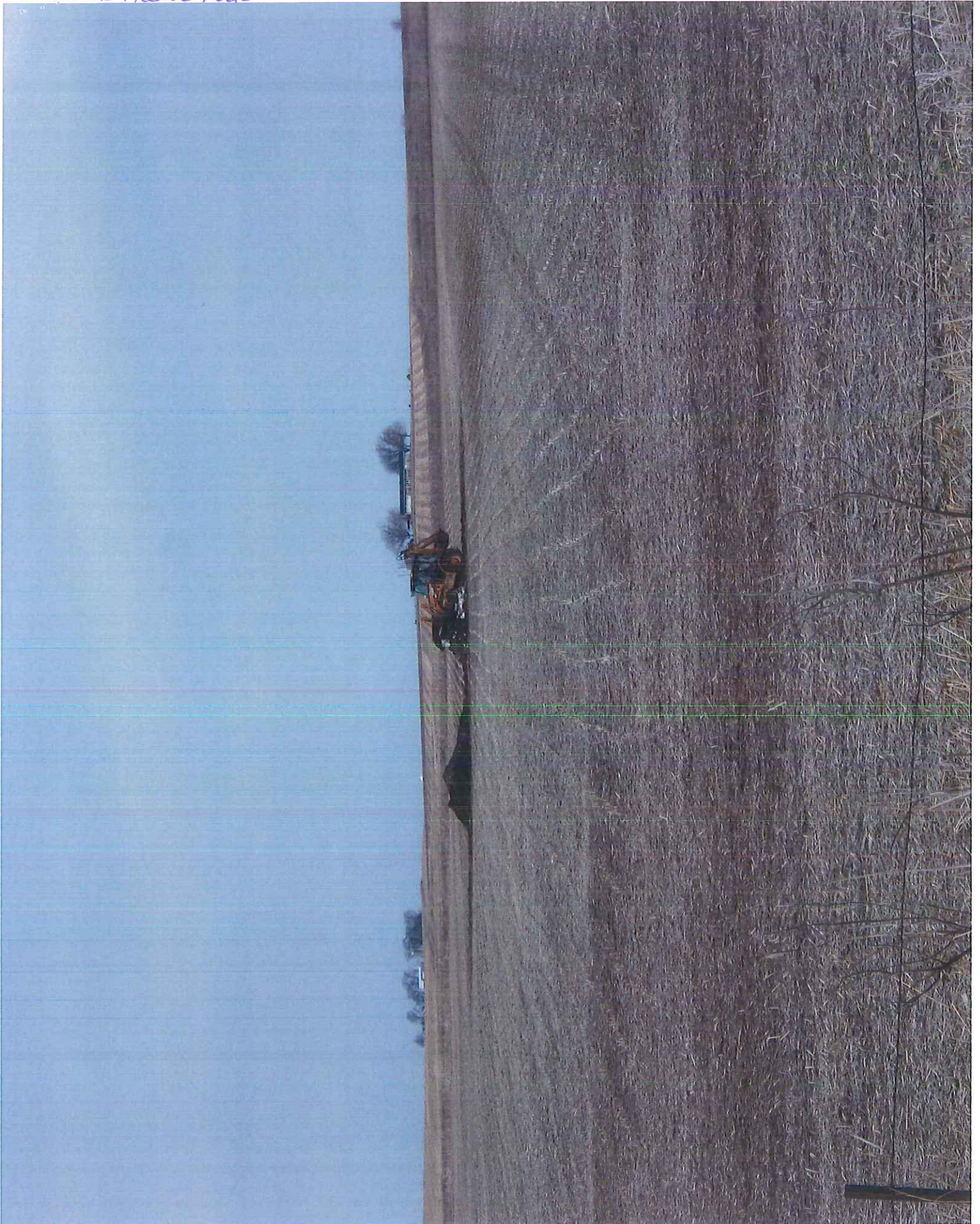
I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Observer's Signature: [Signature] Date Prepared: 4/3/19

Reviewed by: _____ Engineer

Date Reviewed _____

BACKHOE FILING HOUR



6952 2018-11-01ZS.txt

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S. end

N. End

N. End