

AGENDA
DRAINAGE DISTRICT 48 LANDOWNER MEETING
Wednesday, June 23, 2021 1:00 PM
Emergency Operations Center, 1031 Edgington Ave., Eldora, Iowa.
This meeting will be held electronically and in-person due to Covid-19 concerns.
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. Introductions/Attendance
4. DD 48 WO 274 - Discuss W Possible Action - Investigation Summaries / Preliminary Estimate

Documents:

[DD 48 WO 274 INVESTIGATION SUMMARY 02_07_20.PDF](#)
[DD 48 WO 274 - 2ND INVESTIGATION SUMMARY 05_04_21.PDF](#)

5. Comments/Discussion
6. Possible Action
7. Other Business
8. Adjourn Meeting



Drainage Work Order Request For Repair

Hardin County

Date: 10/11/2019

Work Order #: WO00000274

Drainage District: DDs\DD 48 (51072)

Sec-Twp-Rge: _____ Qtr Sec: _____

Location/GIS: 88-21-08-200-004

Requested By: Larry Dougan

Contact Phone: (641) 640-0536

Contact Email: _____

Landowner (if different): _____

Description:

DD 48 Larry Dougan came in to report the open ditch is meandering from current track into field, and requested repair. Asked to be contacted by Engineer when looking at ditch. See work order 151 attached.

Repair labor, materials and equipment _____

Repaired By: _____ Date: _____

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

For Office Use Only

Approved: _____ Date: _____



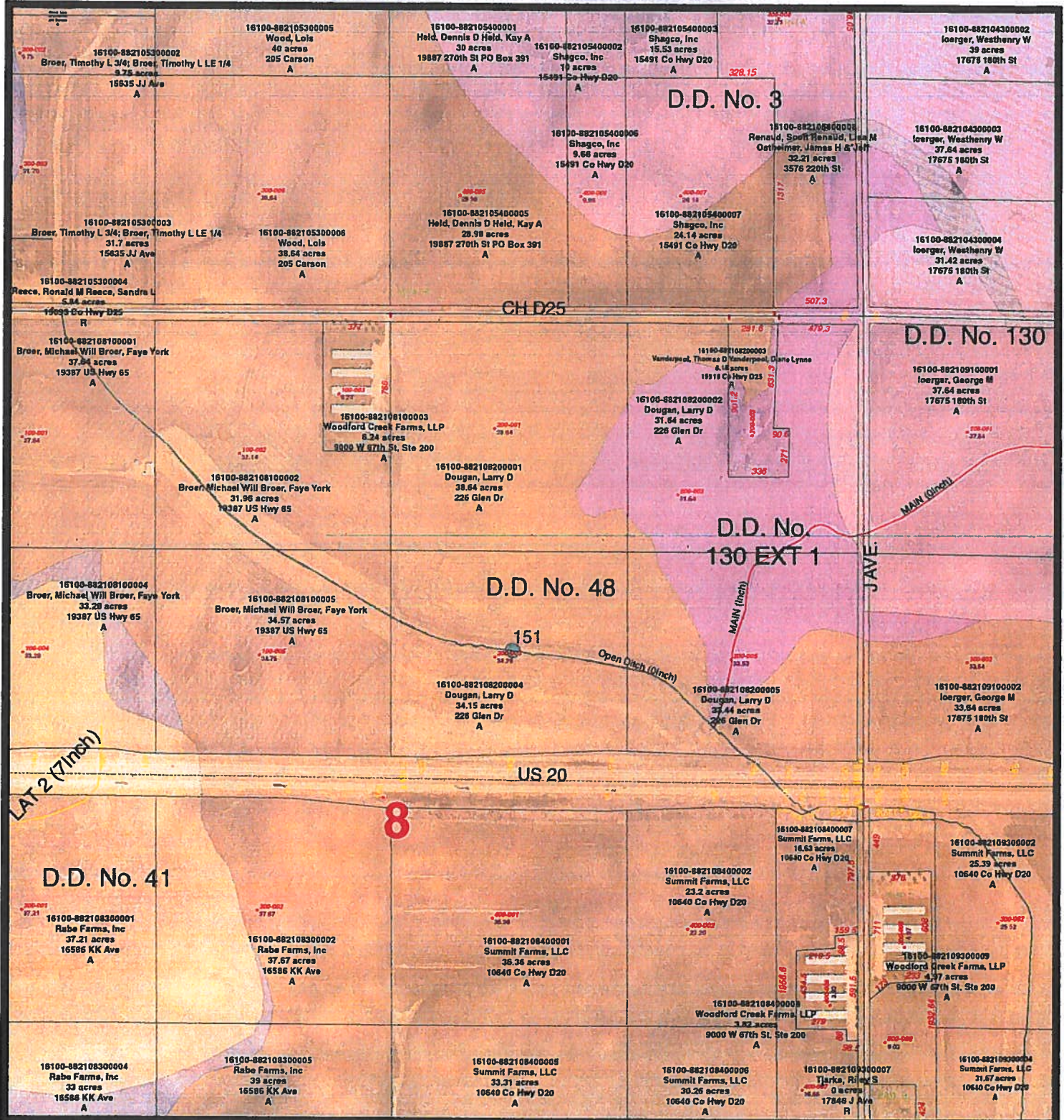
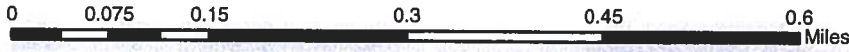
Drainage Tiles

- Lateral
- Main
- Open Ditch
- Private Tile

Hardin County Auditor's Office



Date: 10/11/2019



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



Drainage Work Order Detail

Hardin County

Date 8/11/2016 Project # 6486.1 Work Order # 151
 District # 48 Lateral Open Ditch Fund # 51072
 Township Ellis Section 8 Twp 88 Rge 21 Qtr Sec NE1/4
 Repair Requested By Larry Dougan (641) 640-0536
 Landowner Larry Dougan

Problem Description When ditch was cleaned out approx 10 years ago, all culverts were replaced but on in the SW NE Section 8. Is gone now and back into the field. Landowner requests to fix when crops are out. Does not want fixed if not district expense.

Payments

Date	Vendor	Amount	Description
5/26/2017	WILLIAMS EXC	\$4,409.00	OUTLETS/SURF DRAINS
7/14/2017	RYKEN	\$2,116.00	ENG SVCS TD REPAIR
		\$0.00	
		\$0.00	
		\$0.00	
		\$0.00	
		\$0.00	
		\$0.00	
		\$0.00	

Comments

8/17/16-BOS approve once crops are out. DD usually pays to help keep banks from eroding. Hire contractor via lottery system.

10/25/16-Larry called. Corn is out & culverts can be replaced now. Wants to go w/Eng when goes to look at. Emailed Lee.

11/8-Larry called. Someone came out. One outlet tile is completely gone (south side on east end of farm). If come back out to look at there is another tile only 6" below ground that he has concerns about.

11/9-Lee says no in county contractors available. BOS ok'd out of county contractors for outstanding work.

2/17/17-Not able to find contractors. Will try again this Spring after thaw.

3/7/17-Surface drain was never installed and is now eroding away. Approx 500' east from the drain that has eroded away.

3/8-BOS ok new surface drain to be part of repair proj. (3/9-Called Larry to let him know.)

3/15/17-Waiting for Winters to submit all req'd paperwork.

3/29/17-Lee to research if surface drain or outlet that needs to installed. Ldowners pay for outlets.

6/8/17-Repair Summ:
 Identified other surface drains & tile outlets in similar condition. If left unrepaired, will lead to erosion of banks & siltation in ditch. BOS agree no action as no ldowner complaints.

Drainage District:

#48

Investigation Summary:

- Landowner in the SW¼ NE¼ of Section 8, Township 88 North, Range 21 West reported the Main open ditch meandering within the Main open ditch channel.
- Visual observation found a portion of the Main open ditch in the area described by the landowner with sloughed/eroded banks, meandering channel, and possible siltation. There are also areas found to have the spoil bank washed away where overland water flow (from the field side of the Main open ditch) has concentrated enough to do so.

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

None recorded as only visual observation was performed.

Additional Actions Recommended:

It is unclear if the issues encountered in the observation area are widespread along the entire length of the Main open ditch or not. Authorization of a larger scale study by the District Trustees would be necessary to determine this. Regardless of the extent of the issue, a repair is needed to the area observed.

If the issue does appear to be widespread along the district Main open ditch, an Engineer's Report and hearing would be necessary. If limited to the area observed, the costs of the repairs may be small enough that the work could be done by in-county contractors through the lottery system. However, CGA recommends a widespread observation be conducted to ascertain the condition of the entire Main open ditch as a whole before proceeding with a small-scale repair.



Inspector's Project Diary

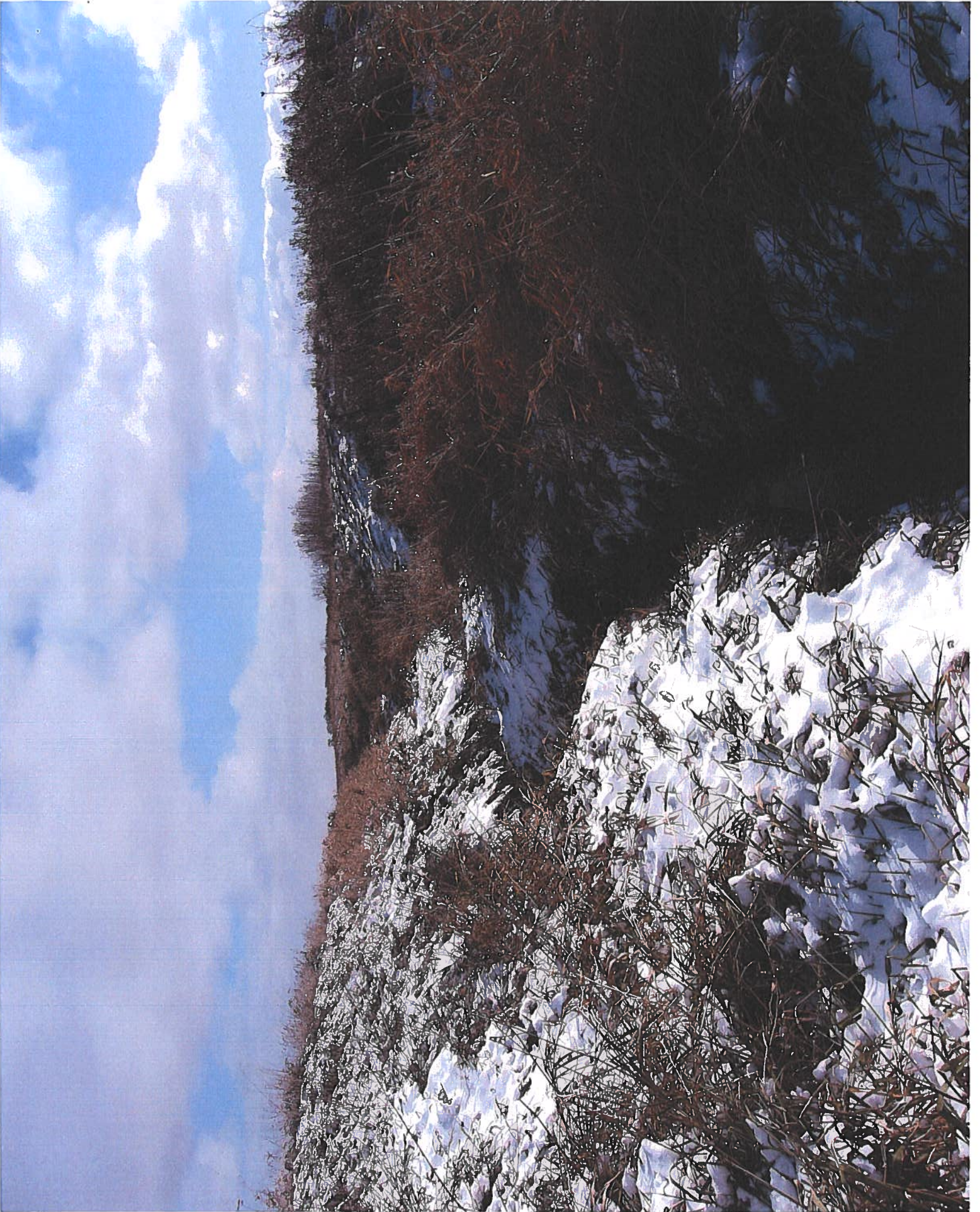
Project: Hardin County Drainage District <u>48</u>			
CGA PN: <u>6486.5</u> <u>0048</u>		Days Charged:	Report No.
Contractor:		Date: <u>11/11/19</u>	
Superintendent:	Weather Conditions: <u>Clear, Windy, Cold</u>	Precip.: <u>2" Snow</u>	Temp. Hi: <u>17</u> ° Temp. Low: <u>10</u> °
INSPECTOR: Time Arrived: <u>11:35 A.M.</u> Time Left:		Contractor: Time Arrived: Time Left:	
<p>1. General Remarks and Work Accomplished:</p> <p>ARRIVED @ JOB SITE IN LARRY DUGAN'S FIELD, LARRY IS GOING TO MEET @ FIELD DRIVE OF HARVESTED FIELD CORN. 11:45, LARRY ARRIVED AND WE DROVE TO S.W. TO OPEN DITCH, FOUND VARIOUS PLACES WHERE SLOUGHS CAUSED BY THROWING CURTING WITHIN OPEN DITCH BOUNDARY. THESE COULD BE FIXED ON A INDIVIDUAL BASIS BUT THE WHOLE OPEN DITCH IS FULL OF DIRT AND NEEDS A CLEAN OUT. ALSO A SURF DRAIN TUBE IS NEEDED NEXT TO DOT P/W IN A TOP BANK WASH-OUT. 3" SLOUGHS NEED REPAIRED AND 1 SURF WASH-OUT. N. DITCH OF HWY 20 ALSO NEEDS CLEANED @ BOX CULVERT.</p> <div style="text-align: center;"> </div>			
<p>2. Changes or Extra Work Ordered:</p> <div style="text-align: center;"> </div>			
<p>3. Test Samples Taken:</p>			
<p>4. Visitors to Site:</p>			
<p>5. Other Work Crews or Project (utilities, subcontractors, etc.) and Work Done:</p>			
<p>6. Attachments (total sheets attached <u>0</u>):</p>			

0048 OPEN DITCH











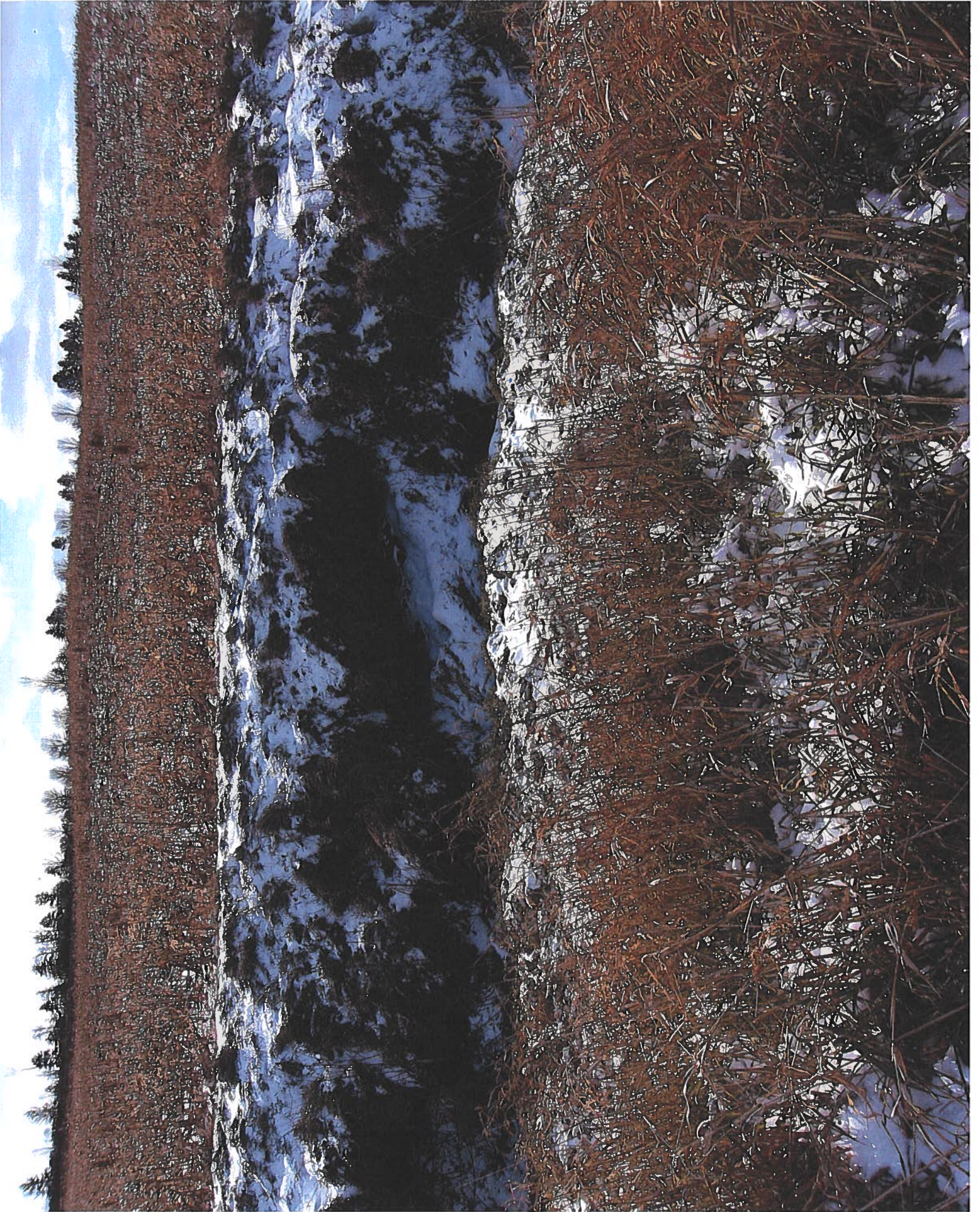


Looking W. @ D.O.T. Hwy 20 R/W













Drainage District:

#48

Investigation Summary:

- Per recommendation of previous investigation summary, performed preliminary survey of existing main open ditch flowline, inventory of main open ditch condition, and found the following issues:
 1. 6,000± feet of the main open ditch that has silt accumulation of ½ feet to 1½ feet (see attached map for locations).
 2. 15,460± feet of the main open ditch that has eroded below the original design grade (see attached map for locations).
 3. 8,800± feet of the main open ditch that has a bottom width narrower than the original design (see attached map for locations).
 4. Erosion around the outlet of the main tile at the upper end of the main open ditch.
 5. 10± locations of existing tile outlets that are in disrepair.
 6. 20± locations of existing surface drains that are in disrepair or a new psurface drain is needed.
 7. 15± locations of sluffing on the banks of the main open ditch.
 8. 5± patches of trees that could promote beaver activity or root growth that could plug tiles.
 9. 2± locations of rocks/former crossing remnants in the flowline.

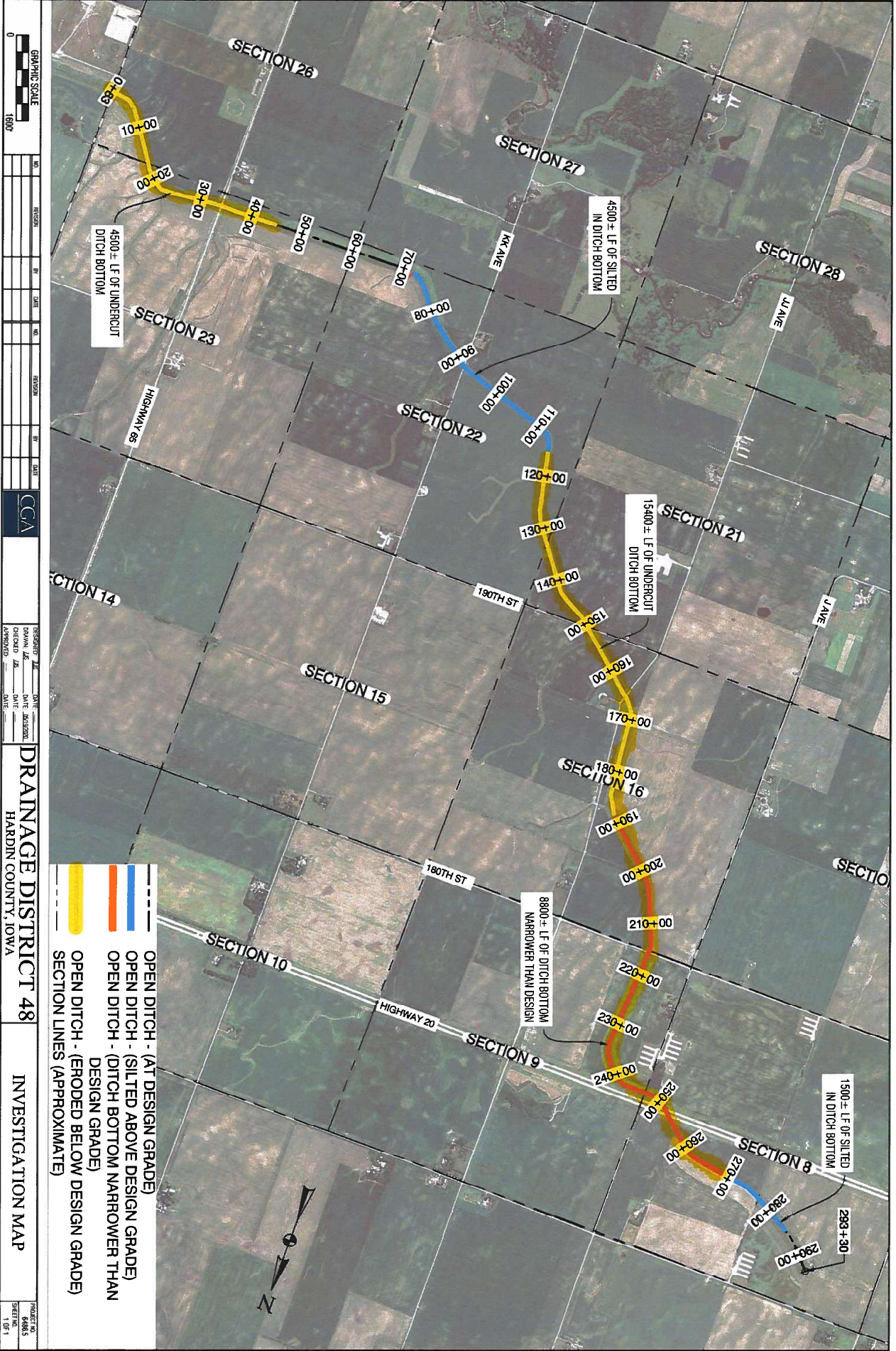
Contractor Time and Materials (spent while CGA was on-site):

None recorded as only visual observation and field survey was performed.

Additional Actions Recommended:

Given all of the above issues that could negatively impact drainage capacity, we would recommend a large scale project to remedy them. Since these issues are spread throughout the length of the main open ditch, the construction cost would be well over \$50,000. This amount is high enough that a hearing and an engineer's report would be required.





NO.	REVISION	BY	DATE

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

CCVA

DRAINAGE DISTRICT 48
HARDIN COUNTY, IOWA

INVESTIGATION MAP

PROJECT NO. 64865
SHEET NO. 1 OF 1

- OPEN DITCH - (AT DESIGN GRADE)
- OPEN DITCH - (SILTED ABOVE DESIGN GRADE)
- OPEN DITCH - (DITCH BOTTOM NARROWER THAN DESIGN GRADE)
- OPEN DITCH - (ERODED BELOW DESIGN GRADE)
- SECTION LINES (APPROXIMATE)

4500 ± LF OF UNDERCUT DITCH BOTTOM

4500 ± LF OF SILTED IN DITCH BOTTOM

15400 ± LF OF UNDERCUT DITCH BOTTOM

8800 ± LF OF DITCH BOTTOM NARROWER THAN DESIGN

1500 ± LF OF SILTED IN DITCH BOTTOM

