TENTATIVE AGENDA SCOTT COUNTY BOARD OF SUPERVISORS March 28 - April 1, 2022

Tuesday, March 29, 2022

Committee of the Whole - 8:00 am Board Room, 1st Floor, Administrative Center AND WEBEX/VIRTUAL OPTION

The public may join this meeting in person OR by phone/computer/app by using the information below. Contact 563-326-8702 with any questions. TO JOIN BY PHONE 1-408-418-9388 ACCESS CODE: 2482 762 4554 PASS CODE: 1234 OR you may join via Webex. Go to www.webex.com and JOIN meeting using the same Access Code and Pass Code above.

See the Webex Instructions in packet for a direct link to the meeting.

1. Roll Call: Croken, Kinzer, Knobbe, Maxwell, Beck

2. Public Comment as an Attendee.
By Phone:
*3 to raise/lower hand, *6 to unmute (host must unmute you first)

By Computer:

Bottom right of screen, you will find Participants and Chat, in this area you will find the hand icon, use the hand icon to raise and lower your hand.

Presentation

3. Parkview Stormwater presentation by Secondary Roads. (Item 3)

Facilities & Economic Development

- 4. Contract with Vogel Traffic Services for placing pavement markings on our secondary roads in the amount of \$137,388.80. (Item 4) (Consent Agenda Consideration)
- 5. Discussion of County review and Public Hearing on Sievers Family Farms, LLC State Construction Permit application for expansion of an existing Confined Animal Feeding Operation located at 26618 20th Avenue in part of the S½NE¼ Section 32, T80N, R1E (Liberty Township) Public Hearing to be held Thursday, March 31st at 5:00 p.m. (Item 5)
 - 6. Planning and Zoning Commission recommendation for 60 day extension approval of final plat of Joe Smith First Addition. (Item 6) (Consent Agenda Consideration)
 - 7. Contract with Wold Architects and Engineers for architectural services for the Jail Roof Replacement in the amount of \$30,398.00 plus reimbursable expenses. (Item 7) (Consent Agenda Consideration)
 - 8. Cost to repair the Jail sewage grinder by Modern Piping in the amount of \$16,157.75. (Item 8) (Consent Agenda Consideration)

Human Resources

- 9. Updates in administrative policies, H, I, N, U & 34. (Item 9) (Consent Agenda Consideration)
- _____ 10. Staff Appointments. (Item 10) (Consent Agenda Consideration)

Finance & Intergovernmental

- _____ 11. Coronavirus State and Local Fiscal Recovery Fund Lost Revenue option. (Item 11)
- 12. ESRI, Inc. Annual GIS Software Maintenance contract in the amount of \$28,650.00. (Item 12) (Consent Agenda Consideration)
- _____ 13. Approve the assessment of election costs for the 2021City/School elections and the 7th Ward Primary Election for Davenport, in the amount of \$132,195.71. (Item 13) (Consent Agenda Consideration)
- 14. Requesting to increase the pay rate for precinct election officials (PEOs) beginning with the June 7, 2022 Primary Election cycle. The request is to increase chairperson pay to \$15.00 per hour; regular PEO pay to \$12.50 per hour; and on-call pay to \$10.00 per hour. (Item 14) (Consent Agenda Consideration)

Other Items of Interest

- _____ 15. Recognizing March as Scott County Essential Workers Appreciation Month. (Item 15)
- ____ 16. New beer/liquor license (6 month term) for Dixon Memorial Park, 5520 298th Street, Dixon. (Item 16) (Consent Agenda Consideration)
- _____ 17. Adjourned. Moved by _____ Seconded by _____

Thursday, March 31, 2022

Regular Board Meeting - 5:00 pm Board Room, 1st Floor, Administrative Center AND WEBEX/VIRTUAL OPTION

The public may join this meeting in person OR by phone/computer/app by using the

information below. Contact 563-326-8702 with any questions.

TO JOIN BY PHONE 1-408-418-9388 ACCESS CODE: 2481843 9253 PASS CODE: 1234 OR you may join via Webex. Go to www.webex.com and JOIN meeting using the same Access Code and Pass Code above. See the Webex

Instructions in packet for a direct link to the meeting.

Public Hearing

1. Public Hearing relative to Sievers Family Farms, LLC State Construction Permit application for expansion of an existing Confined Animal Feeding Operation in Liberty Township.

Instructions for Unmuting Phone Line during Board Meeting teleconference

To gain the moderator's attention, *press *3 from your phone OR the raise hand icon* on computer or mobile device (for location of raise hand icon, see below). Phone lines will be placed on mute during the meeting. Participants may unmute their line using the mute icon or ***6** on their phone after being recognized by the Chair.

Meeting # 2482 762 4554

Password #1234

Connect via Computer or application:

Host: <u>www.webex.com</u> Meeting number: **above** Password: **1234**

Or use direct link to meeting:

https://scottcountyiowa.webex.com/scottcountyiowa/onstage/g.php?MTID=ec8d2b40b10194cb5861ef17cdb6dd190.

_Connect via telephone: 1-408-418-9388 Meeting number: above Password: 1234

Telephone / Cell Phones Connections:

Telephones lines will be placed on mute during the meeting. Participants may "raise their hand" by using *3 to gain attention of the host.

When called upon for comments by the Board,

- 1. The host will then unmute the participant's line at the appropriate time.
- 2. A user must have his or her own device unmuted.
- 3. The user may then unmute his or her conference line by keying * 6
- 4. After conversation, please lower your hand. (*3 again)

Computer / Application Connections:

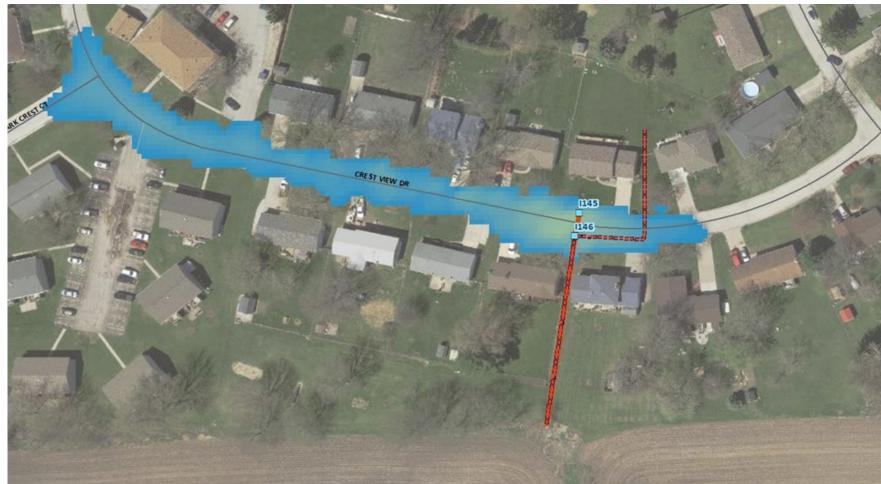
If connected via web application or computer, the user should look for the Raise Hand U raise hand symbol and click to appear raised so the host may acknowledge you.

- 1. The host will then unmute the participant's line at the appropriate time.
- 2. A user must have his or her own device unmuted.
- 3. The user may then unmute his or her conference line by clicking the microphone symbol.
- 4. After conversation, please lower your hand. (*3 again)

	You can mute yourself so that everyone can concentrate on what's being iscussed. While you're on a call or in a meeting, select at the bottom of the			Raise Ha		
				Change A	udio Conr	nnection
	meeting window. You'll know it's working when the button turns red.	need to click on •••		Turn	Off Speak	iker
	If you want to unmute yourself, select O. Others can hear you when the button turns gray.			Audio Device:	ې Setti	ĝ} tings
	When you're muted and move away from the call controls, the mute button moves to the center of your screen and fades in color to indicate that you're still muted.		Find Device	2 Q&A	Dol) Polling	الال Audio-Only Mode
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ltem 3 3/29/2022

Park View Stormwater Drainage System Analysis







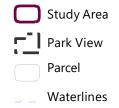




Study Area

Figure 1 Park View Stormwater Drainage System Analysis

Scott County, IA



Location within Scott County



Data Sources: Roads: Scott County Parcels: Scott County Aerial: Scott County (2019)



) I

300 6







Stormwater System

Figure 5 Park View Stormwater Drainage System Analysis

Scott County, IA

- Study Area
- Park View
- Parcel
- Building Footprint
- S Waterbodies
- Waterlines
- _____ Stormwater Pipe
- ____ Stormwater Culvert
- 。 Manhole
- . Standard Inlet
- Double Inlet
- ... Triple Inlet
- Pipe Connection Not Found

Data Sources: Roads: Scott County Parcels: Scott County Stormwater System: MSA Survey

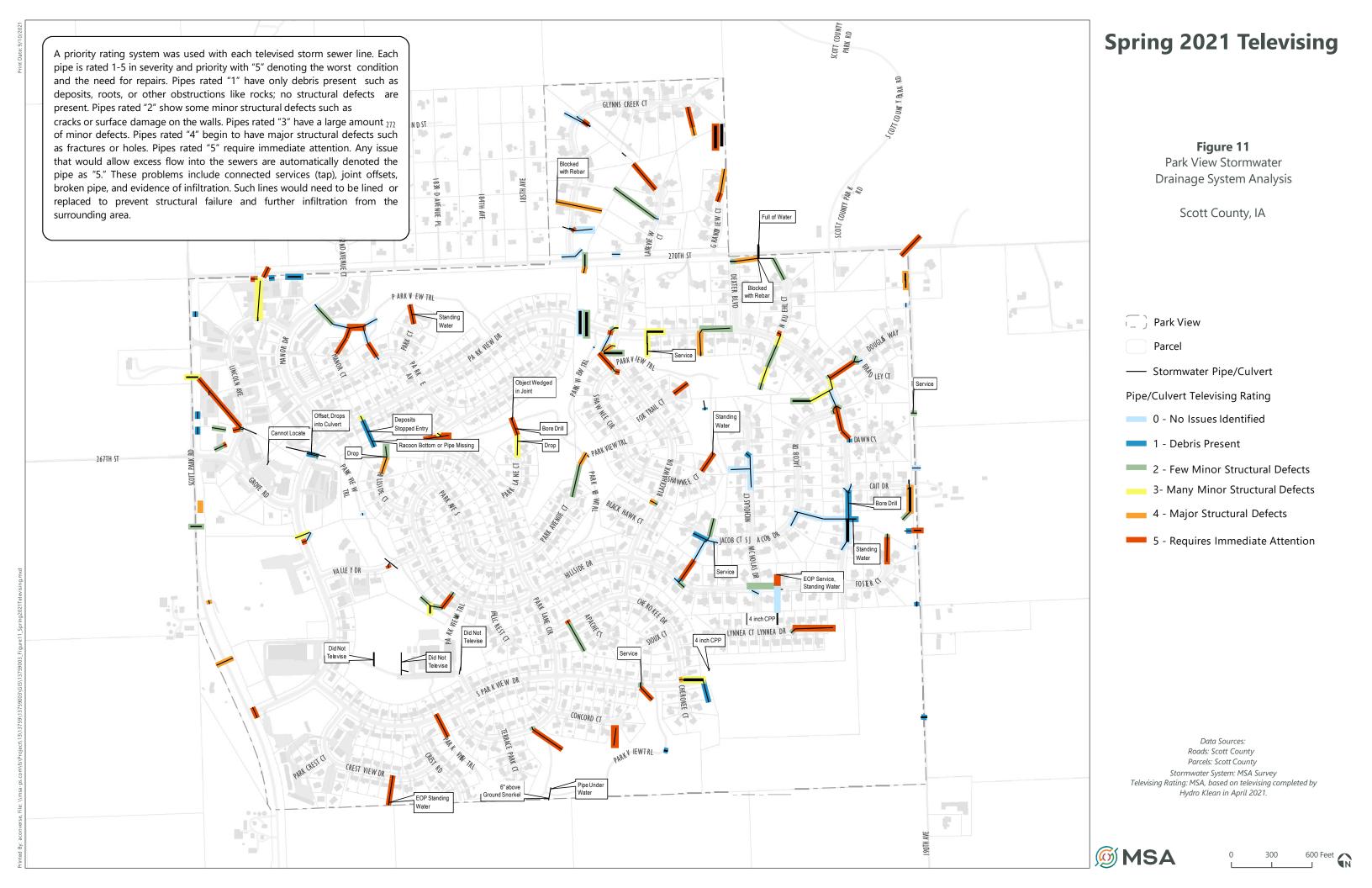


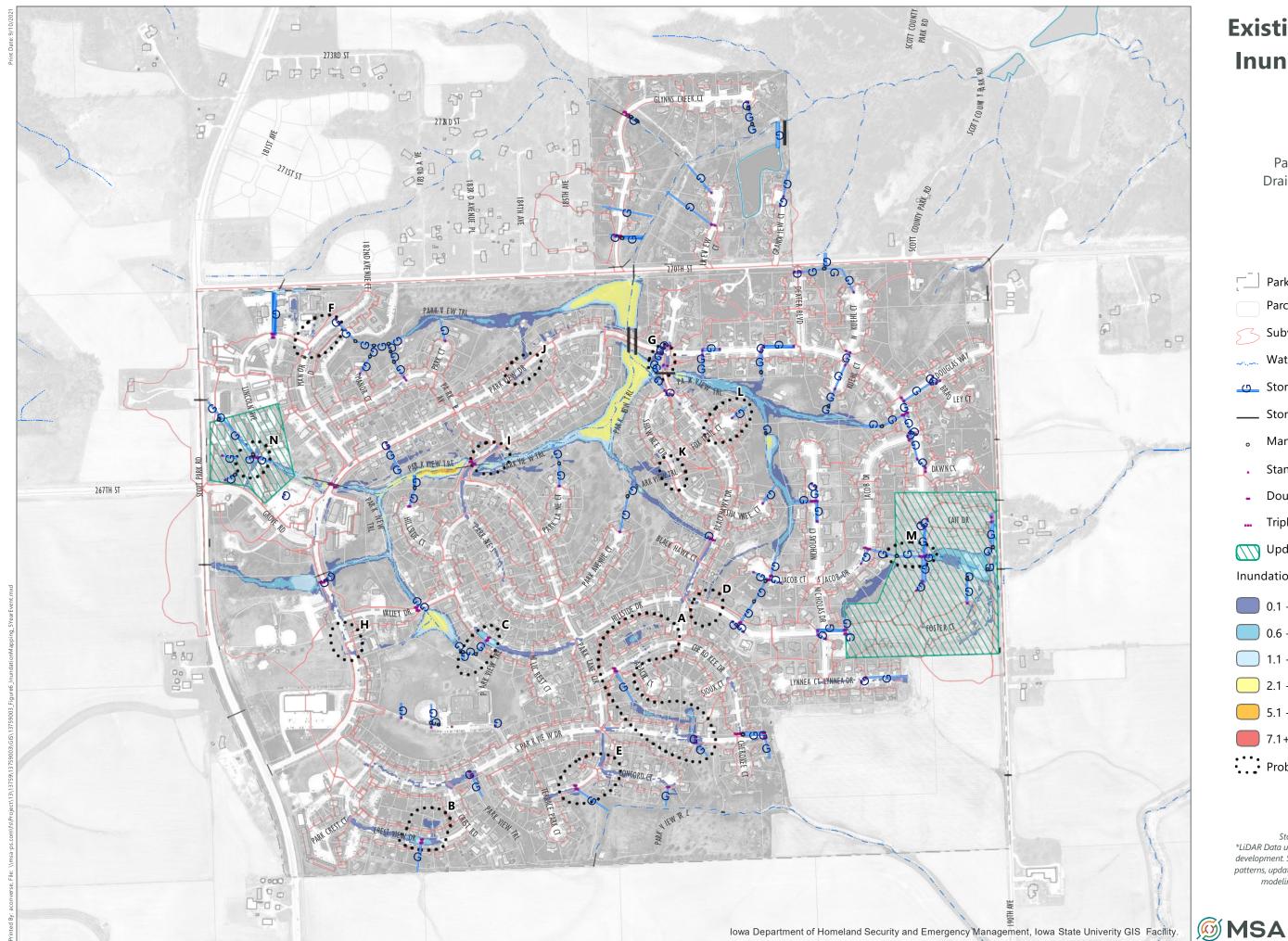
0 L_____



Date: 3/29/2021Work Order:Weather:SurveyedBy: James HeadCertificate Number: 217-07006890Pipe Segm 10?_NYear laid:Pre-cleaning: Light CleaningDirection: DownstreamPipe Joint Length: 63.6 'Certificate Number: 217-07006890Pipe Segm 10?_NCity:Eldridge Street: Hillside Dr Location Code: Location Details:Drainage Area: Media Label: FlowUpstream10? 63.6 'MH: 63.6 'Length: 63.6 '63.6 'Code: Location Code: Location Details:Media Control: Number:Upstream Vert:10? 69 MH Down Rim 0.0M1 0.0Pipe shape:Circular Pipe size: 15 " Pipe material:Sewer Use: Vitrified Clay Pipe Se: Owne r:Stormwater Pipe Se: Owne r:Total gallons passed: Joints failed:0Additional Info:Additional Info:FileOwne r:Joints failed:0		provider. One experience.		Inspecti	on report				
Year laid: Pre-cleaning: Direction: Pipe Joint Length: Total Length: Length: Edgit (Said) Sity: Eldridge Drainage Area: Media Upstream 10? Sitest: Hillside Dr Media Upstream 10? Sociation Controt: Media Up Rim to Inver : 00 Sociation Controt: Number: Mill DownRim 00 Number: Sheet Number: 00 Number: 00 Number: Sever Use: Stormwater Pipe 00 00 Number: 00 Number: Sever Category: SEC Purpo 9			k Order:		SurveyedBy:			Pipe Segme	
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Scott County Easement 3_29_2021 // Page: 3





Existing Conditions Inundation 5-year Event

Figure 6 Park View Stormwater Drainage System Analysis

Scott County, IA

Park View

Parcel

- Subwatershed
- waterlines
- _____ Stormwater Pipe
- _____ Stormwater Culvert
- Manhole
- . Standard Inlet
- Double Inlet
- ... Triple Inlet
- Updated Topography Required*

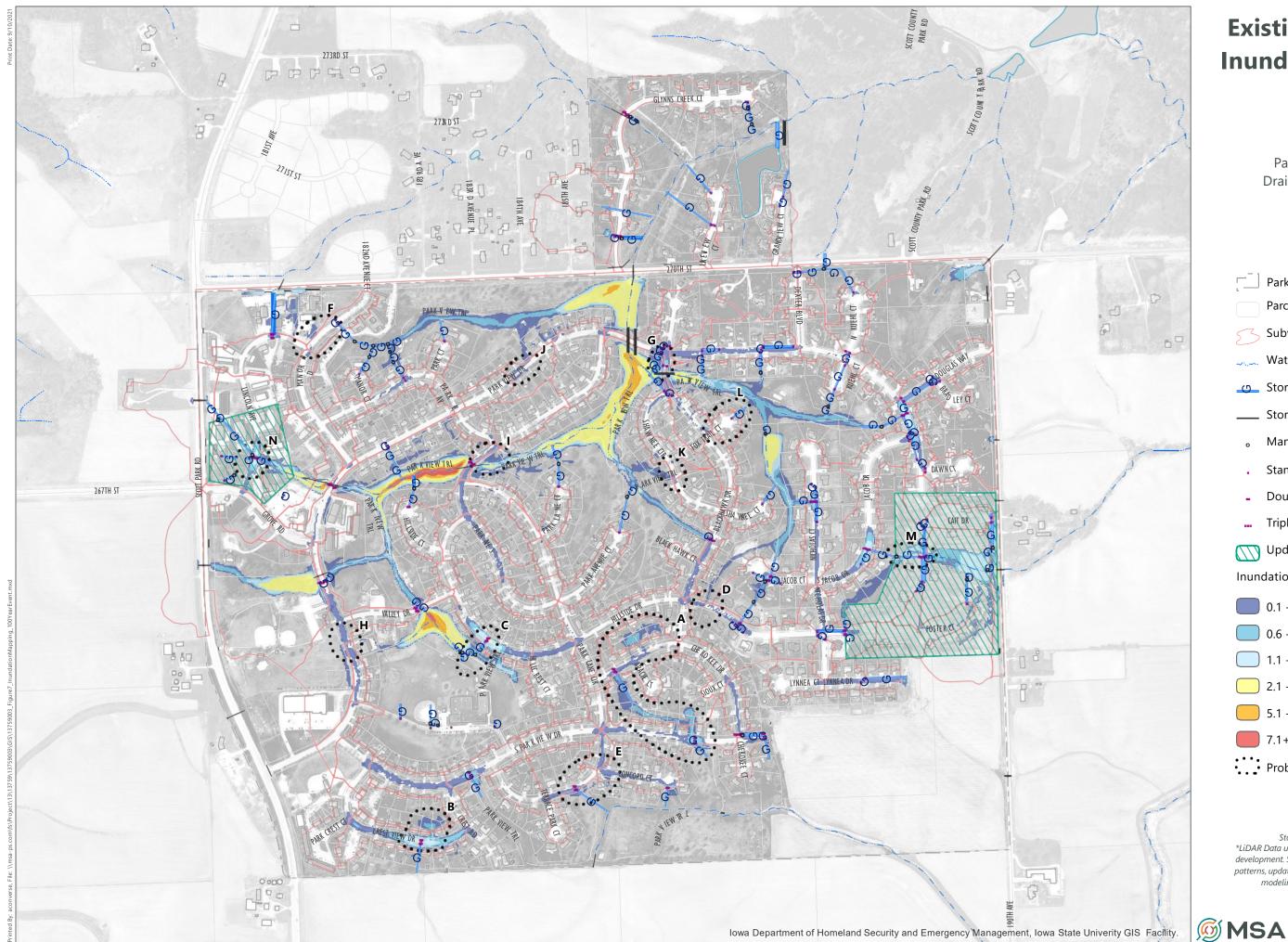
Inundation Depth (ft)

0.1 - 0.5 0.6 - 1 1.1 - 2 2.1 - 5 5.1 - 7 7.1+ ••••• ••••• Problem Location

Data Sources: Roads: Scott County Parcels: Scott County Stormwater System: MSA Survey *LiDAR Data used for flood modeling is older than recent development. Since surface grading affects overland flow patterns, updated elevation information is required. Flood modeling in these areas will be inaccurate.

> 600 Feet 300





Existing Conditions Inundation 100-year Event

Figure 7 Park View Stormwater Drainage System Analysis

Scott County, IA

Park View

Parcel

- Subwatershed
- waterlines
- _____ Stormwater Pipe
- _____ Stormwater Culvert
- Manhole
- . Standard Inlet
- Double Inlet
- ... Triple Inlet
- Updated Topography Required*

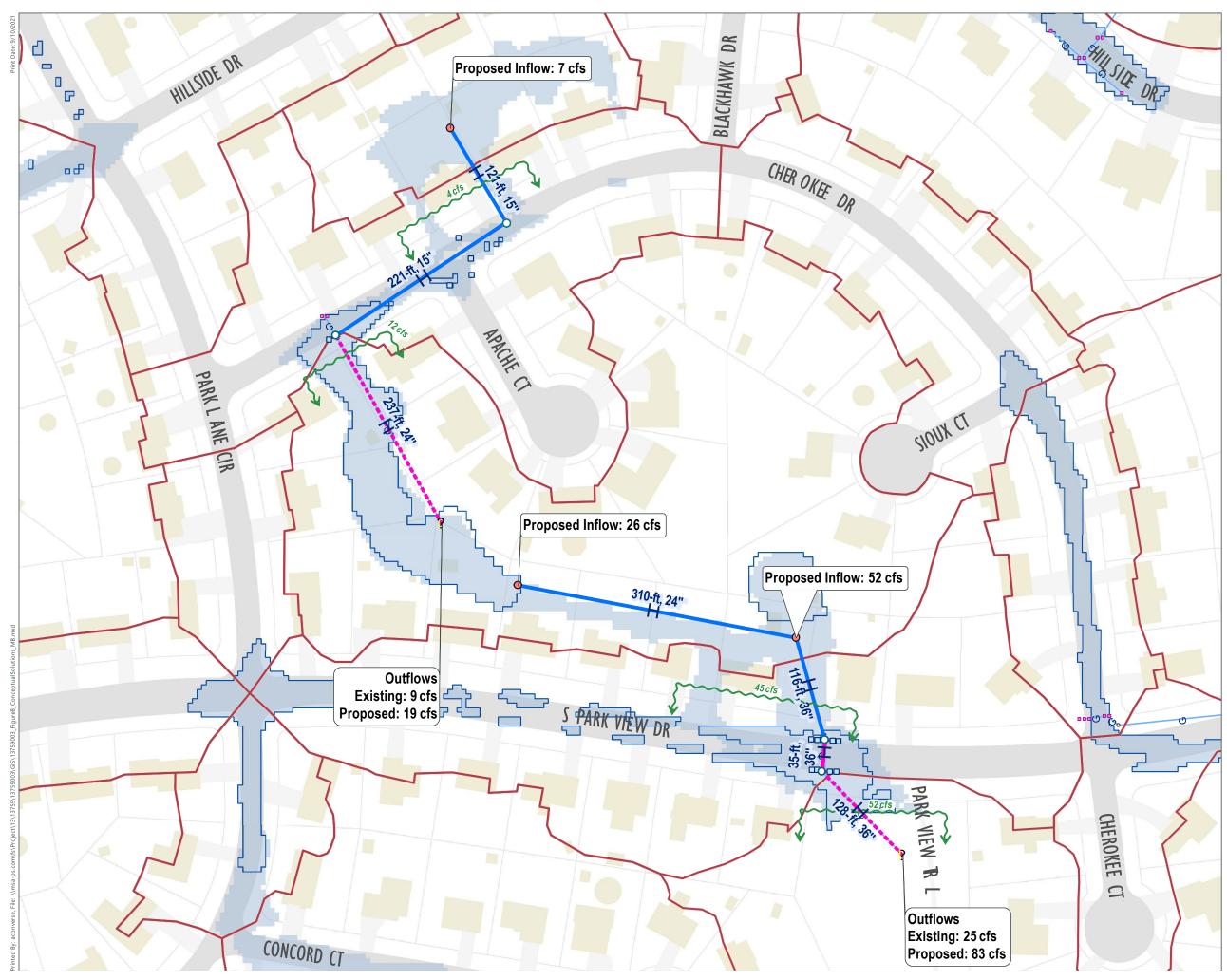
Inundation Depth (ft)

0.1 - 0.5 0.6 - 1 1.1 - 2 2.1 - 5 5.1 - 7 7.1+ •••• ••••• Problem Location

Data Sources: Roads: Scott County Parcels: Scott County Stormwater System: MSA Survey *LiDAR Data used for flood modeling is older than recent development. Since surface grading affects overland flow patterns, updated elevation information is required. Flood modeling in these areas will be inaccurate.

> 600 Feet 300



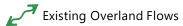


Conceptual Solutions Area A

Figure 8-1 Park View Stormwater Drainage System Analysis

Scott County, IA

- S Watershed
 - Existing 100-yr Event Inundation
- S Proposed 100-yr Event Inundation
- ____ Existing Stormwater Pipe
- ----, Existing Stormwater Culvert
- 。 Existing Manhole
- Standard Inlet
- Double Inlet
- Triple Inlet



Proposed Improvements

- Proposed Pipe, New
- Proposed Pipe, Replace Existing
- Proposed Access Structure (4)
- Proposed Inlet (13)
- Proposed Area Inlet (3)
- ? Proposed Outlet (2)

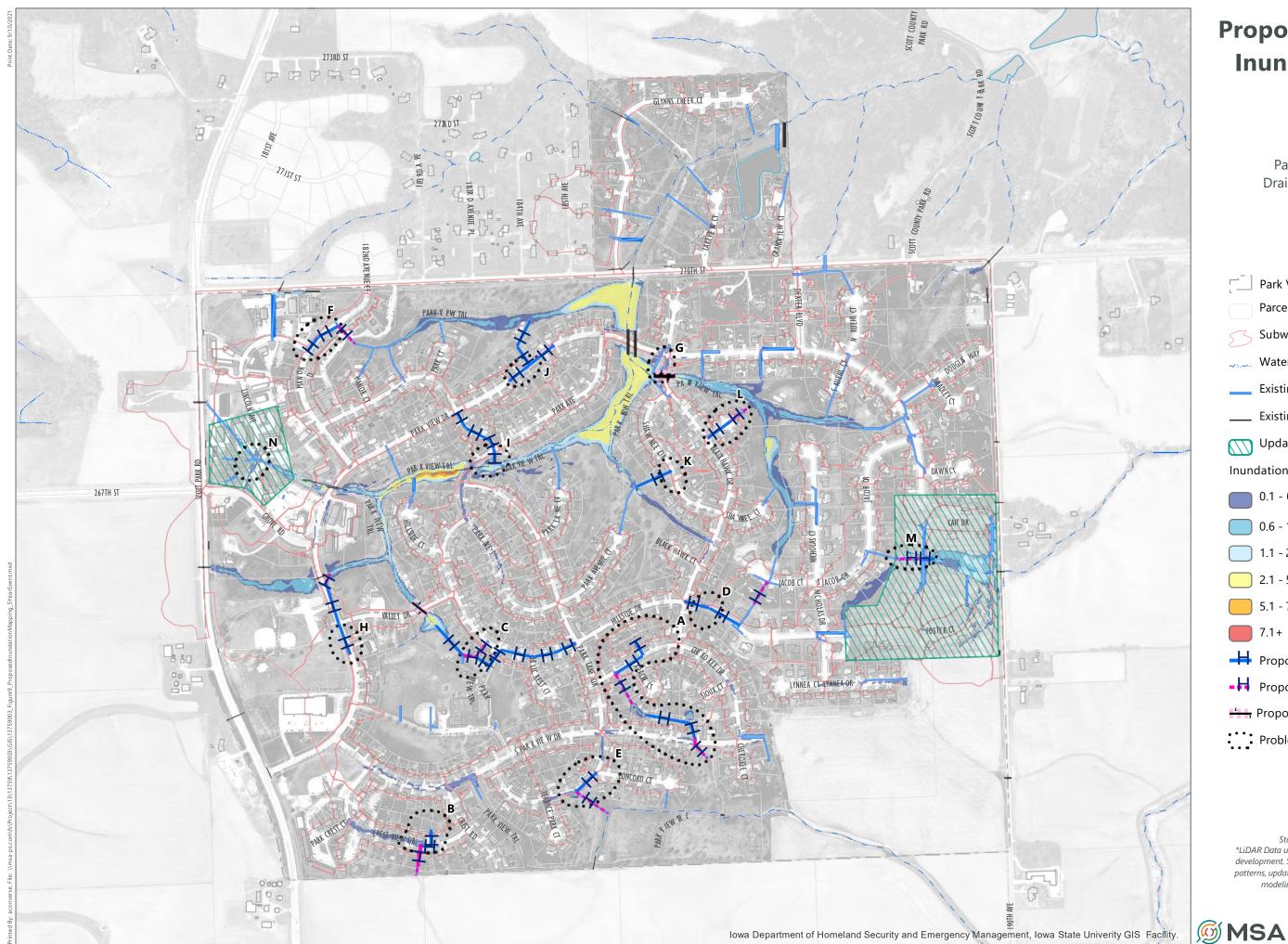


Data Sources: Roads: Scott County Parcels: Scott County Stormwater System: MSA Survey Existing and Proposed Inundation: MSA. Proposed inundation assumes that all proposed projects are constructed.



0 40 80 Feet





Proposed Conditions Inundation 5-year Event

Figure 9 Park View Stormwater Drainage System Analysis

Scott County, IA

Park View

Parcel

Subwatershed

Waterlines

Existing Stormwater Pipe

_ Existing Stormwater Culvert

Updated Topography Required*

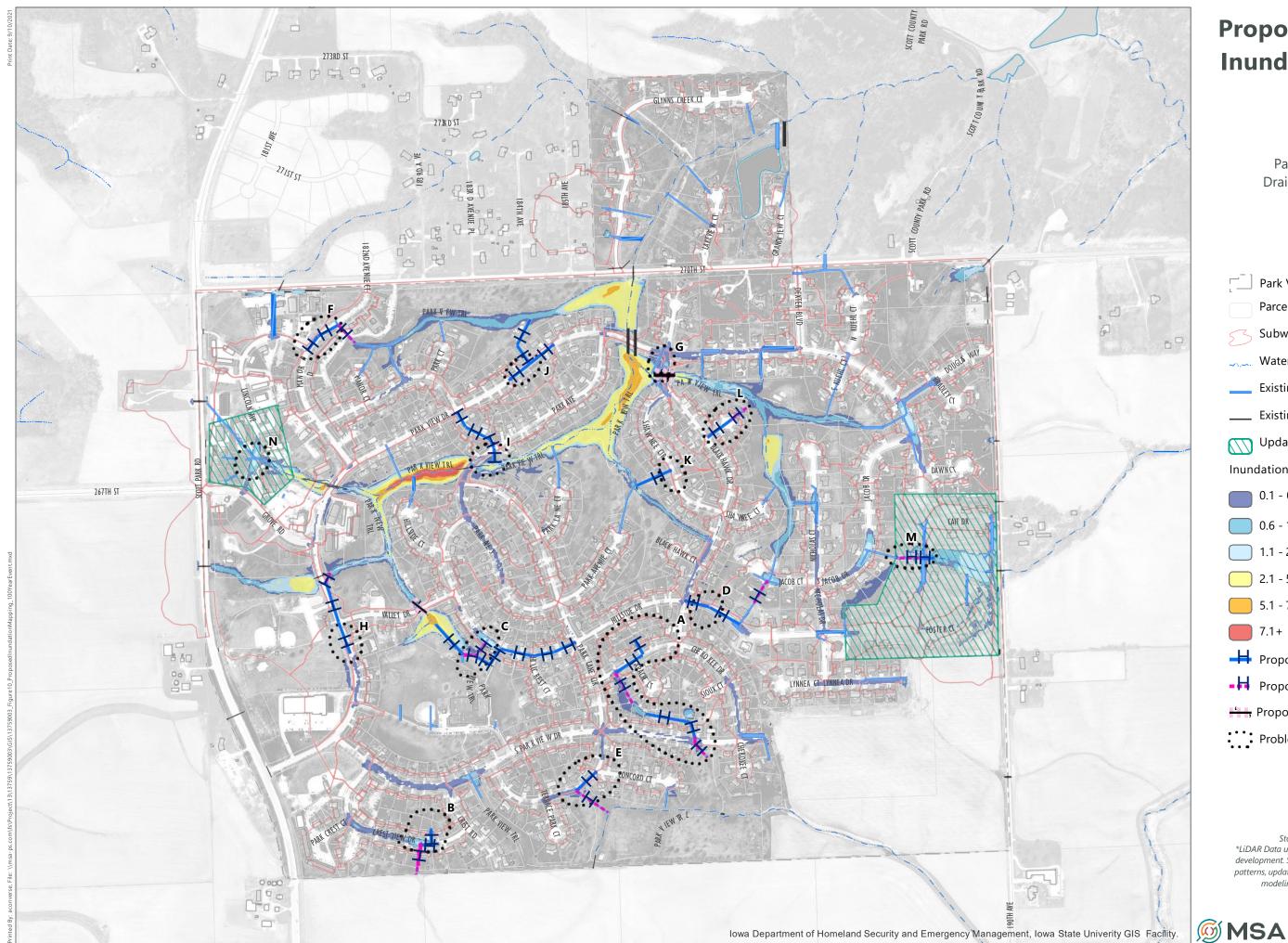
Inundation Depth (ft)

- 0.1 0.5 0.6 - 1 1.1 - 2 2.1 - 5 5.1 - 7 7.1+ ➡ Proposed Pipe, New - H Proposed Pipe, Replace Existing
- ++++, Proposed Culvert, Replace Existing
- Problem Location

Data Sources: Roads: Scott County Parcels: Scott County Stormwater System: MSA Survey *LiDAR Data used for flood modeling is older than recent development. Since surface grading affects overland flow patterns, updated elevation information is required. Flood modeling in these areas will be inaccurate.

300





Proposed Conditions Inundation 100-year Event

Figure 10 Park View Stormwater Drainage System Analysis

Scott County, IA

Park View

Parcel

Subwatershed

Waterlines

Existing Stormwater Pipe

_ Existing Stormwater Culvert

Updated Topography Required*

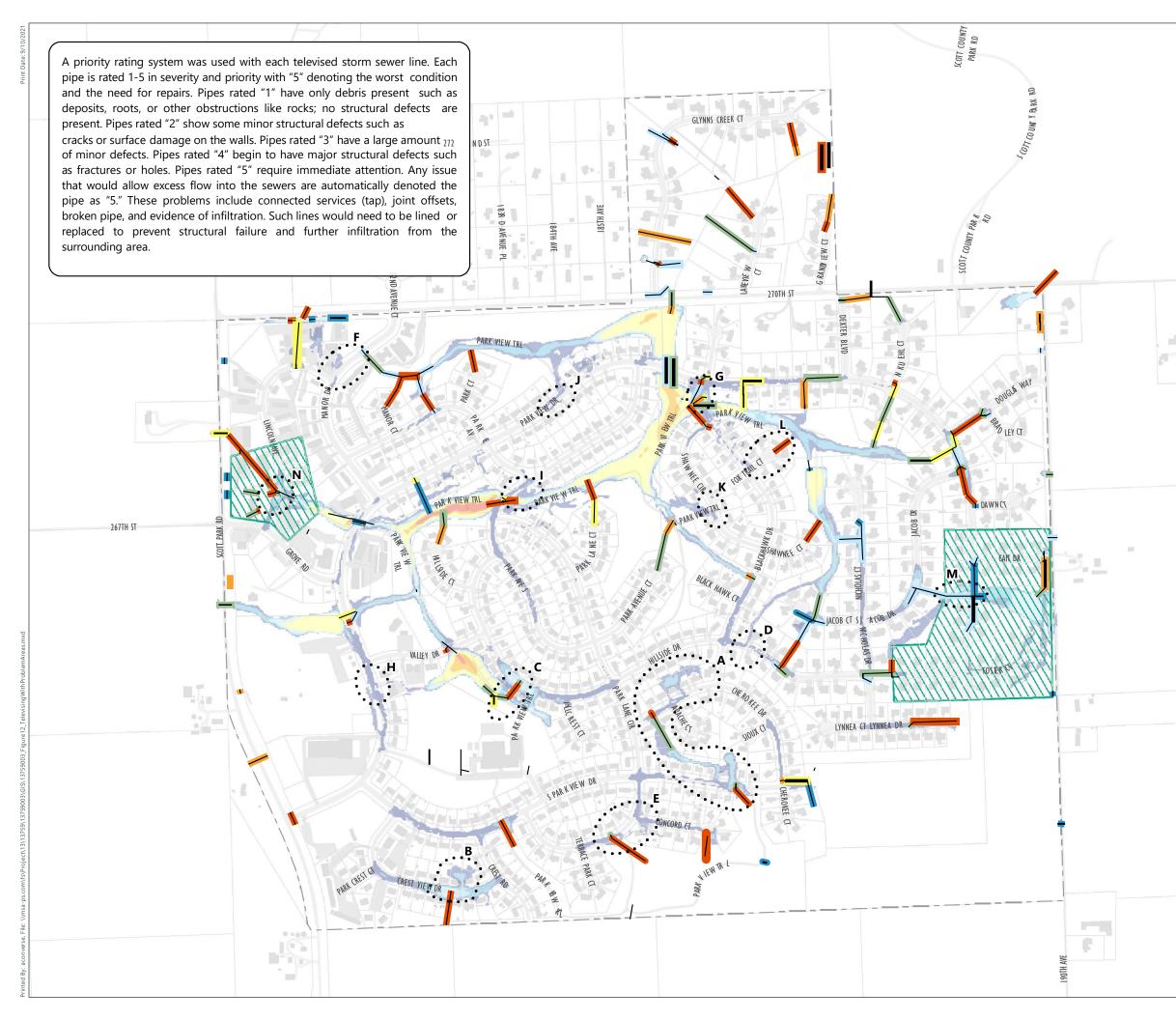
Inundation Depth (ft)

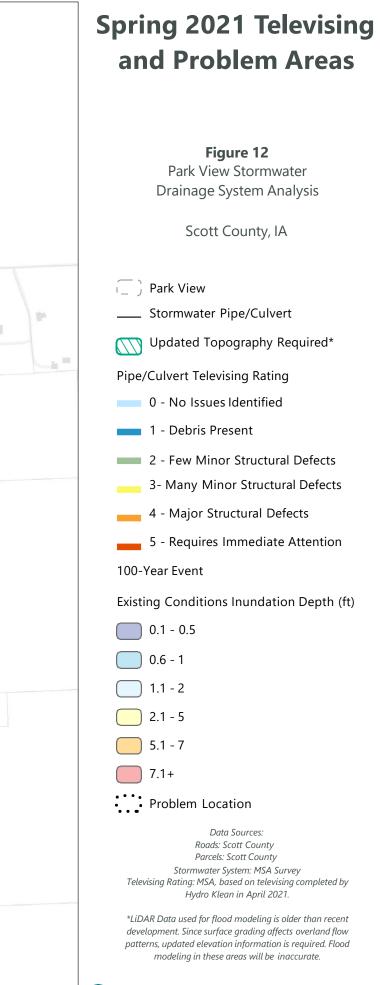
- 0.1 0.5 0.6 - 1 1.1 - 2 2.1 - 5 5.1 - 7 7.1+ ➡ Proposed Pipe, New - H Proposed Pipe, Replace Existing
- ++++, Proposed Culvert, Replace Existing
- Problem Location

Data Sources: Roads: Scott County Parcels: Scott County Stormwater System: MSA Survey *LiDAR Data used for flood modeling is older than recent development. Since surface grading affects overland flow patterns, updated elevation information is required. Flood modeling in these areas will be inaccurate.

300









600 Feet 300



SCOTT COUNTY ENGINEER'S OFFICE

950 E. Blackhawk Trail Eldridge, Iowa 52748

ANGELA K. KERSTEN, P.E.

COUNTY ENGINEER

(563) 326-8640 FAX – (563) 328-4173 E-MAIL - engineer@scottcountyiowa.gov WEB SITE - www.scottcountyiowa.gov

untyiowa.gov tyiowa.gov ELLIOTT R. PENNOCK, E.I.T.



TARA YOUNGERS SENIOR ADMINISTRATIVE ASSISTANT

MEMO

ASSISTANT COUNTY ENGINEER

- TO: Mahesh Sharma County Administrator
- FROM: Angie Kersten, P.E. County Engineer
- SUBJ: Pavement Markings
- DATE: March 10, 2022

This resolution is to approve a contract for placing pavement markings on our secondary roads. We paint centerline on all of our rural paved roads annually. We bi-annually paint white edge line on these roads. The west half of the county will receive white edge line painting this year. A request for quotes was sent out February 21st and the following quotes were received:

KAM Line Highway Markings, Gilbert, IA	NO BID
Advanced Traffic Control, Fairfax, IA	NO BID
Iowa Plains Signing, Slater, IA	\$302,668.23
Vogel Traffic Services, Orange City, IA	\$137,388.80

The low bid from Vogel Traffic Services is a 19% increase from FY 2021 prices and FY 2021 prices were a 13% increase from FY 2020 prices. However, pavement markings play one of the most important safety functions on our roads. They provide continuous information to road users regarding road alignment and the reflective properties of the paint navigate drivers during rain events and nighttime driving.

Based on the important safety aspects of maintaining reflective pavement markings, I recommend entering into a contract with Vogel Traffic Services contingent on the unit prices listed in the contract. The total budgeted amount for pavement markings in FY 2022 is \$125,000. I will request an increase in budget for pavement markings with the May budget amendment. We have sufficient fund balance to utilize towards placing pavement markings.

CONTRACT ID

Letting Date: 3/4/2022 County: Scott Cost Center: N/A Contract Work Type: 2022 Pavement Markings

Project Engineer: Scott County Engineer Object Code: 593

This agreement made and entered by and between the SECONDARY ROAD DEPARTMENT OF SCOTT COUNTY, IOWA, CONTRACTING AUTHORITY, AND VOGEL TRAFFIC SERVICES, CONTRACTOR

It is agreed that the notice and instructions to bidders, the proposal filed by the Contractor, the specifications, the plan, if any, for project(s) listed below are made a part hereof and together with this instrument constitute the contract. This contract contains all of the terms and conditions agreed upon by the parties hereto. A true copy of said plan is now on file in the Office of the Contracting Authority under date of 2/10/2021.

PROJECT: 2022 Pavement Markings	COUNTY: Scott
WORK TYPE: Line Painting	ACCOUNTING ID: 113.27.2703.7130.5937
ROUTE: N/A	LENGTH (MILES): Varies
LOCATION: County Wide	ELIVOTTI (MILLES). Vailes
FEDERAL AID - PREDETERMINED WAGES ARE NOT IN EFFECT	

The specifications consist of the 2015 Standard Specifications of the Iowa Department of Transportation plus the following Supplemental Specifications, Special Provisions, and Addendums: GS-15013.

Contractor, for and in consideration of \$137,388.80 payable as set forth in the specifications constituting a part of this contract, agrees to construct various items of work and/or provide various materials or supplies in accordance with the plans and specifications therefore, and in the locations designated in the Notice to Bidders.

Contractor certifies by signature on this contract, under penalties for false certification, that the contractor has complied with Iowa Code Section 452.17(8) as amended, if applicable, and Iowa Code Section 91C.5 (Public Registration Number), if applicable.

In consideration of the foregoing, the Contracting Authority hereby agrees to pay the Contractor promptly and according to the requirements of the specifications the amounts set forth, subject to the conditions as set forth in the specifications.

It is further understood and agreed that the above work shall also be commenced or completed in accordance with Page 1B of this Contract and assigned Proposal Notes.

Time is of the essence for this contract. To accomplish the purpose herein expressed, Contracting Authority and Contractor have signed this and two other identical instruments as of the _____ day of

By

Scott County Board of Supervisors - Chairperson

Vogel Traffic Services tractor

Chad Hamill, Director of Traffic Coatings

....

CONTRACT ID

Letting Date: 3/4/2022

Bid Order No. : 001

It is further understood and agreed that the above work shall be commenced or completed in accordance with the following schedule:								
	SITE NUMBER	WORK START DATE	WORKING	LIQUIDATED				
			DAYS	DAMAGES PER				
l				DAY				
	CONTRACT	Line Painting Completed by June 24, 2022	20	\$300				

CONTRACT NOTES

CONTRACT SCHEDULE OF PRICES

Page: 2

Vendor No. : Contract ID No. : Primary Work Type: 2022 Pavement Markings Primary County: Scott

Bid Order No.: 001 Letting Date: 3/4/2022 10:00:00 AM

Line	Item Number		Item Juantity	Unit Price	Bid Amount
No.	Item Description		nd Unit	Dollars Cents	Dollars Cents
1	Painted Pavement Markings, Solid Line, White	Miles	214.616	336.38	72,192.53
2	Painted Pavement Markings, Broken Line, White	Miles	2.120	84.10	178.29
3	Painted Pavement Markings, Solid Line, Yellow	Miles	158.960	336.38	53,470.96
4	Painted Pavement Markings, Broken Line, Yellow	Miles	137.301	84.10	11,547.01
			TOTAL C	Contract Amount	\$137,388.80
	Quantities in all items do not include wor City quantities to be billed by the Contrac Cities may choose <u>NOT</u> to have work do	ctor to the	specific Ci	ties.	
		_			

THE COUNTY AUDITOR'S SIGNATURE CERTI THIS RESOLUTION HAS BEEN FORMALLY AF	
THE BOARD OF SUPERVISORS ON	DATE
SCOTT COUNTY AUDITOR	

RESOLUTION

SCOTT COUNTY BOARD OF SUPERVISORS

March 31, 2022

AWARD OF CONTRACT FOR PAVEMENT MARKINGS

BE IT RESOLVED by the Scott County Board of Supervisors as follows:

- Section 1. That the contract for pavement markings be awarded to Vogel Traffic Services contingent on the unit prices listed in the contract.
- Section 2. That the Chairperson be authorized to sign the contract documents on behalf of the Board.
- Section 3. That this resolution shall take effect immediately.



Chris Mathias, Director

To: Mahesh Sharma, County Administrator

From: Chris Mathias, Planning Director

Date: March 21, 2022

Re: County review and public hearing on the Construction Permit Application of Sievers Family Farms, LLC in the S½NE¼ of Section 32, T80N, R1E (Liberty Township), which has submitted an application to the Iowa Department of Natural Resources (IDNR) for a construction permit for the expansion of an existing confined animal feeding operation, also known as Glenora Feed Yard at 26618 20th Avenue in unincorporated Scott County.

Scott County's adoption of the Master Matrix allows the County to review applications for State construction permits for confined animal feeding operations. The Master Matrix rewards points for additional separation distances above the State required minimums. Points are also rewarded based upon the design and operation of the site, such as the development of an emergency action plan, responsible manure application, among others. Points are awarded in the three categories of air, water, and community. A minimum score is required for each of these categories, with a total minimum score of 440 points required to pass the Matrix.

The IDNR notified Scott County it had received the application on March 18th, 2022. Scott County has 30 days from the date the IDNR notifies the County that it has received the application to submit comments and a recommendation on that application. Notice of the receipt of this application, as well as notice of a public hearing to be held on the application at the March 31st Board meeting, were published in two area newspapers (*North Scott Press, Quad City Times*) as required by the IDNR. A public hearing is not required by the IDNR rules, but the Board of Supervisors has the option to hold such hearings. The Board has held a public hearing on all such applications.

Glenora Feed Yard is an existing operation that was approved for 4,888 head of cattle in four confinement barns along with an anaerobic digester and two earthen storage basins. Approximately half the site was built with two of the four confinement barns and one of the two earthen basins constructed. At this time, the applicant would like to build another anaerobic digester consisting of a covered earthen basin with an HDPE liner and cover along with all the associated manure pumps and pipelines. There are no other changes proposed to the site. The site is not reapplying for the construction of the two additional confinement barns and therefore is reducing its permitted number of head down to 2,444 head of finishing cattle.



Chris Mathias, Director

In reviewing the submitted application, this expansion meets the minimum required points to pass the Matrix. Glenora Feed Yard took 455 total points, 15 more than the required minimum of 440 points. The application meets the minimum scores for each of the three categories of air, water, and community.

There are no businesses, churches, schools, no ag drainage wells, no surface intakes for ag drainage wells, and no designated wetlands within one mile of the site. The closest residence to the site is 1,909' away and the distance to the right of way is 1,751'.

Staff has not, as of yet, received any calls or emails regarding this request. Staff will include any written comments and a summary of any verbal comments received at the public hearing with the Board's recommendation to the IDNR. In addition to publishing public notice, staff has also mailed notice of the public hearing to property owners within 500 feet of the property.

Planning Staff will accompany the Health Dept. inspector to inspect the site and will report on that inspection and provide a recommendation at the Committee of the Whole meeting on Tuesday April 12th.



NOTICE OF PUBLIC HEARING TO BE HELD BY THE SCOTT COUNTY BOARD OF SUPERVISORS FOR THE REVIEW OF AN APPLICATION FOR A STATE CONSTRUCTION PERMIT FOR THE EXPANSION OF AN EXISTING CONFINED ANIMAL FEEDING OPERATION

Public Notice is hereby given that the Scott County Board of Supervisors will hold a public hearing on **Thursday, March 31, 2022**, in the Board Room in the Scott County Administrative Center, 600 West 4th Street, Davenport, Iowa, during their regular meeting which starts promptly at **5:00 P.M.**

The Scott County Board of Supervisors will review and hear public comments on the State of Iowa Construction Permit application of Sievers Family Farms LLC. in the S ½ of NE ¼ of Section 32, T80N, R1E (Liberty Township) for the expansion of an existing confined animal feeding operation. The addresses of the subject property is 26618 20th Avenue, Stockton, Iowa 52769.

The existing confined animal feeding operation has an Animal Unit Capacity (AUC) of 2,444. The proposed expansion would not impact the capacity, but since the capacity is over 1,667 AUC, a master matrix evaluation is required. The expansion would include the construction of a covered earthen plug-flow digester, which will be constructed with a clay liner, then four (4) inches of insulation, and then an HDPE liner over the insulation in order to capture the methane gas.

A copy of the application is on file with the Scott County Planning and Development Department and is available for review prior to the hearing during normal working hours 8:00 AM to 4:30 PM, Monday through Friday. If you have questions or want further information please call or write the Planning and Development Department, Administrative Center, 600 West Fourth Street, Davenport, Iowa 52801, 563-326-8643, or attend the hearing.

Written, faxed or emailed comments for the Board of Supervisors may be delivered or sent to the Scott County Planning and Development Department in advance of the public hearing. All comments will be forwarded to the Iowa Department of Natural Resources. The fax number for Scott County Planning and Development is 563-326-8257 and the email address is <u>planning@scottcountyiowa.com</u>.

Chris Mathias Director



PUBLIC NOTICE TO ALLOW FOR REVIEW AND COMMENT ON AN APPLICATION FOR A STATE CONSTRUCTION PERMIT FOR THE EXPANSION OF AN EXISTING ANIMAL CONFINEMENT FEEDING OPERATION

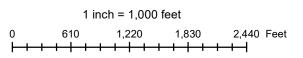
The Scott County Board of Supervisors has on file an application for a State of Iowa construction permit that has been submitted to the Iowa Department of Natural Resources for the expansion of an existing animal (cattle) confinement feeding operation in Scott County.

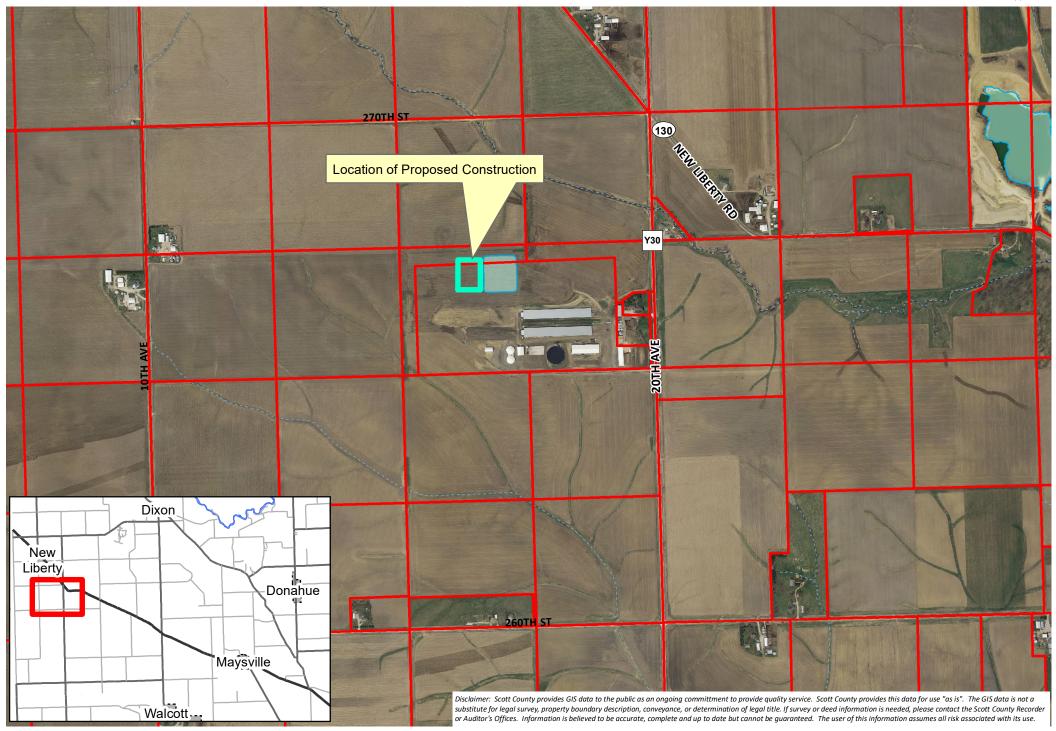
Name of Applicant:	Sievers Family Farms LLC, applicant Glenora Feed Yard, LLC
Address	26618 20 th Avenue Stockton, Iowa 52769
Location of operation	S ½ of NE ¼ of Section 32, T80N, R1E (Liberty Township)
Description of application	The existing confined animal feeding operation has an Animal Unit Capacity (AUC) of 2,444. The proposed expansion would not impact the capacity, but since the capacity is over 1,667 AUC, a master matrix evaluation is required. The expansion would include the construction of a covered earthen plug-flow digester, which will be constructed with a clay liner, then four (4) inches of insulation, and then an HDPE liner over the insulation in order to capture the methane gas
Examination:	The application for a State Construction Permit and associated manure management plan is on file with the Scott County Planning and Development Department located at 600 West 4 th Street, Davenport, Iowa and is available for review by the public during normal working hours 8 AM to 4:30 PM, Monday through Friday.
Comments:	Written, faxed or emailed comments for the Board of Supervisors may be delivered or sent to the Scott County Planning and Development Department until Thursday, March 31, 2022 at 4:00 PM. All comments will be forwarded to the Iowa Department of Natural Resources. The fax number for Planning and Development is 563-326-8257 and the email address is <u>planning@scottcountyiowa.com</u> .
Additional Information:	Chris Mathias, Planning and Development Director 600 West 4 th Street Davenport, Iowa 52801 563-326-8643



Location of Glenora Feed Yard Construction

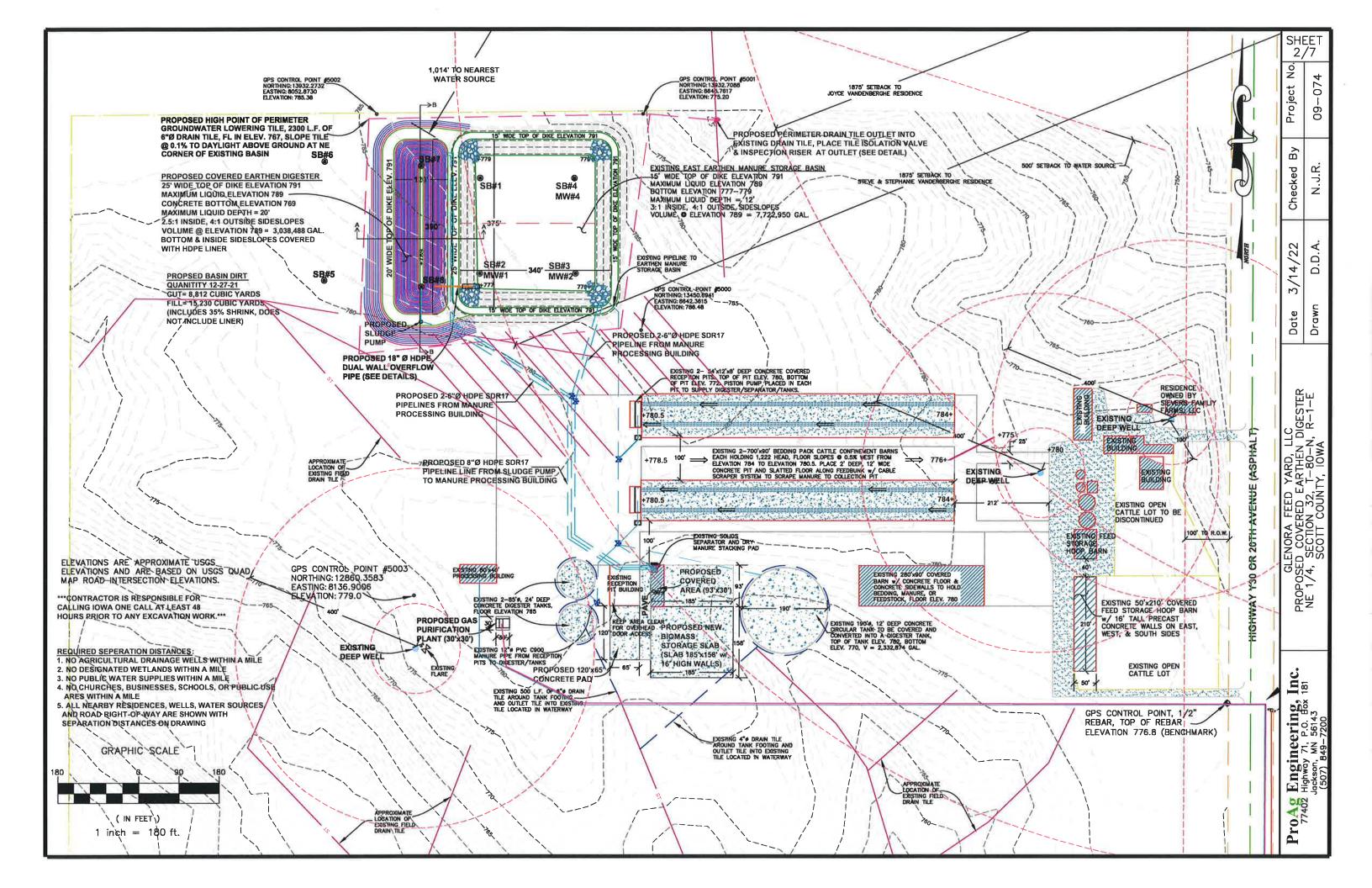


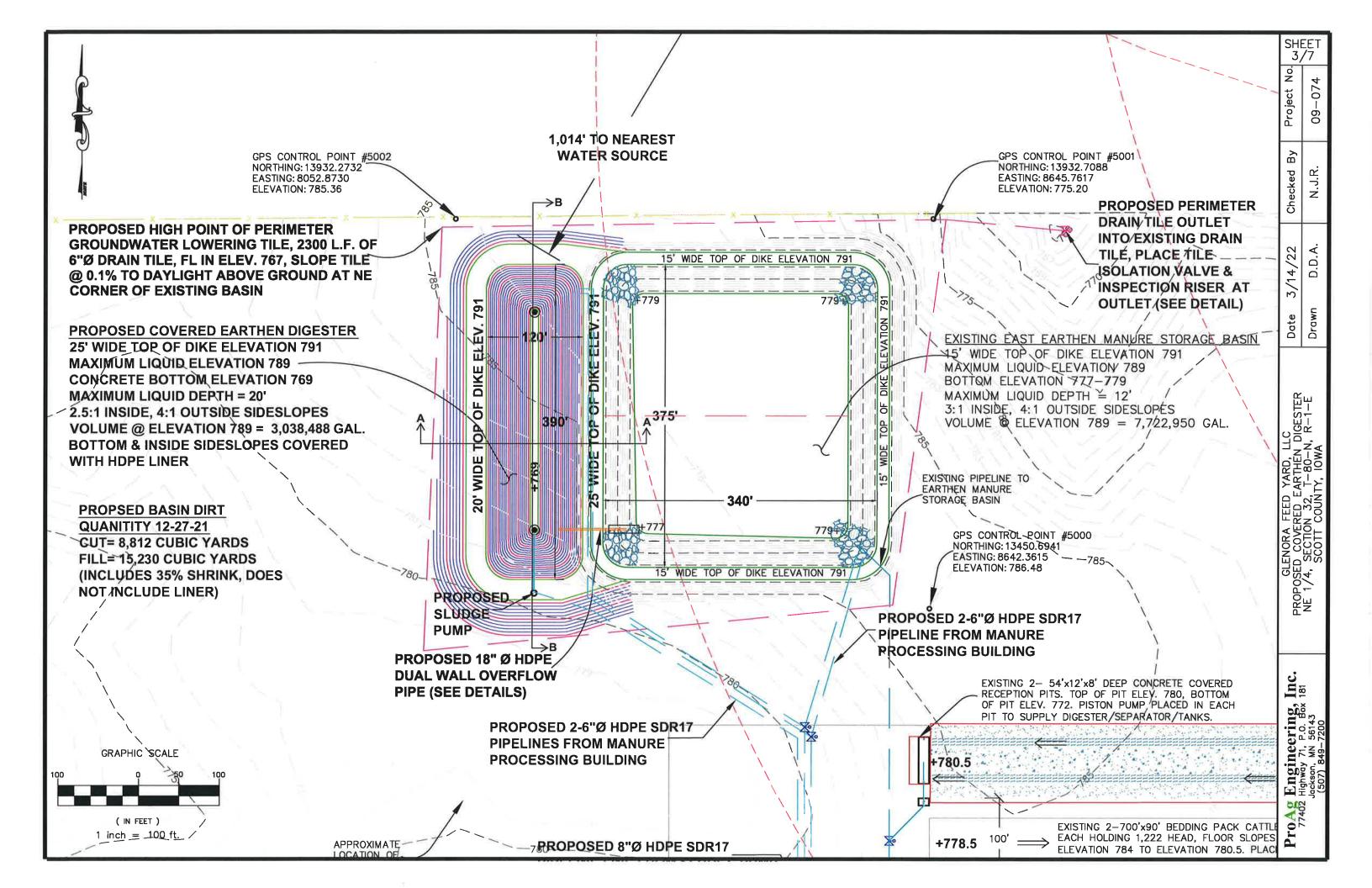


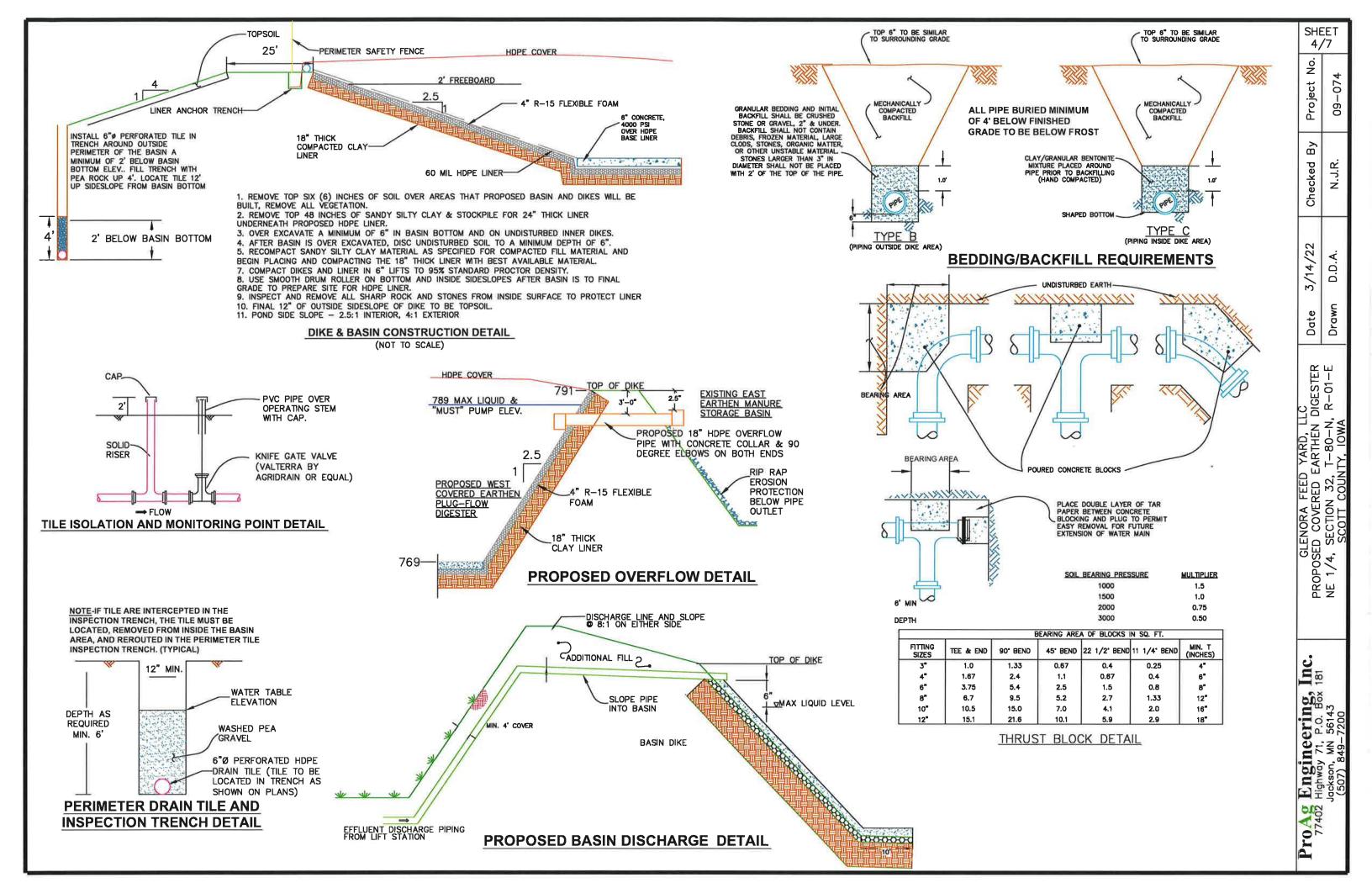


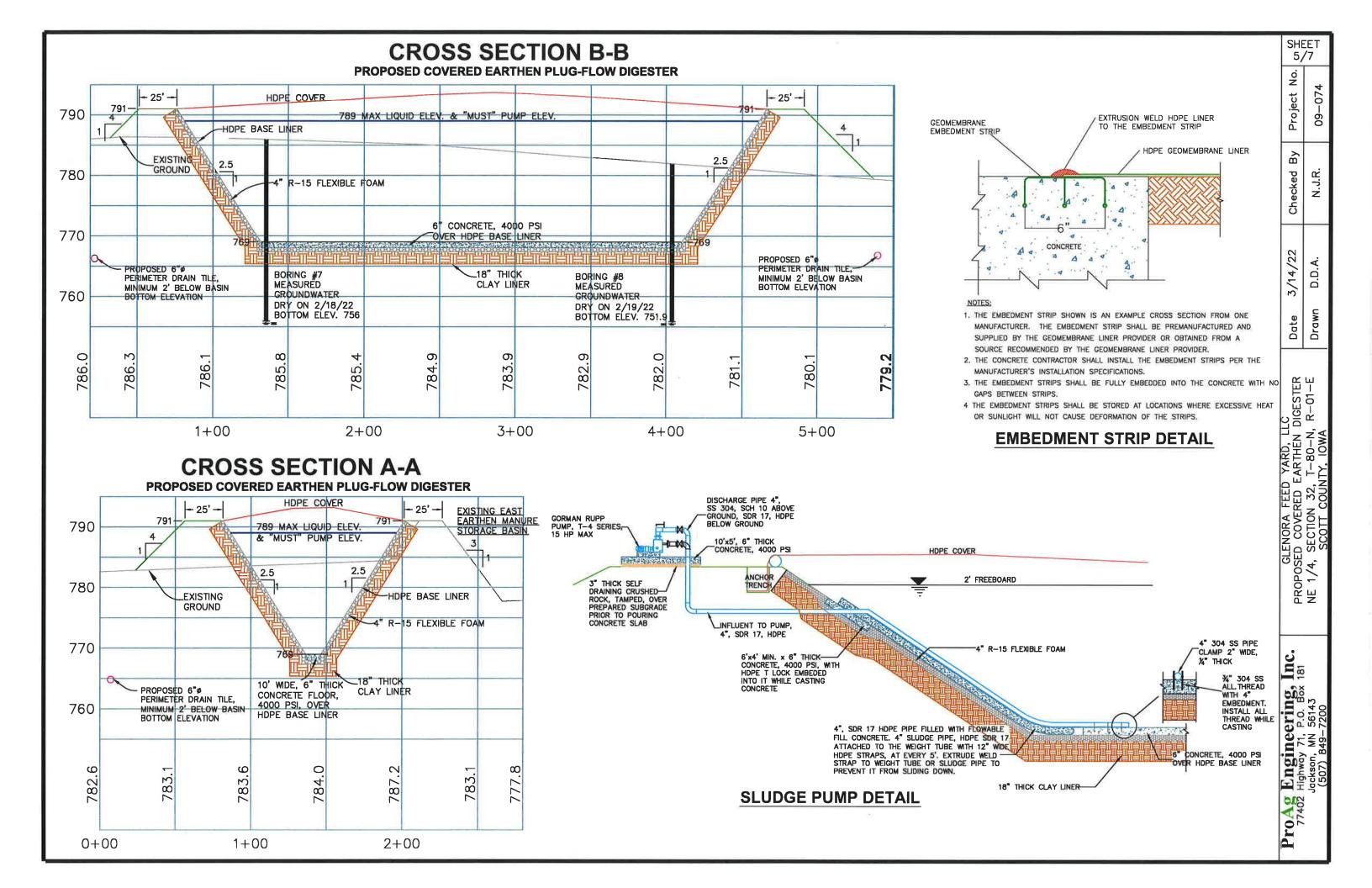
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa. Date 3/16/22 NICHOLAUS licholaus J. Rowe, P.E CENS 9 ROWE License number 18651 18651 My license renewal date is December 31, 2023 Sheete Pages or sheets covered by this seal: AEM LIBERTA ROP 10WA 5239' ****THE PROPOSED CONFINEMENT OPERATION** STRUCTURES COMPLY WITH THE DESIGN STANDARDS OF IOWA CODE SECTION 459 AND 567 IAC 65.** 4737 4324 3968 **270TH STREET** 640 N _1909'--3063' 4150 3424 A Ē 333 3535' 4542' 4114' 4596 KEY FOR AERIAL PHOTO PROPOSED COVERED EARTHEN MANURE STORAGE BASIN A. BASIN LOCATION B. DISTANCES TO NEAREST RESIDENCES- 1909', 2597', 2640', 3063', 3208', 3337', 3424', 3535', 3968', 4114', 4150', 4324', 4542', 4596', 4737', 4971' & 5239' C. **DISTANCE TO NEAREST WATER SOURCE- 1014** D. DISTANCE TO R.O.W.- 1751' E. DISTANCE TO NEAREST WELL- 744', 1379' & 1642' THERE ARE NO BUSINESSES, CHURCHES, SCHOOLS, NO AG DRAINAGE WELLS, NO SURFACE INTAKES FOR AG DRAINAGE WELLS, OR NO. DESIGNATED WETLANDS WITHIN ONE MILE OF THE SITE. THE P

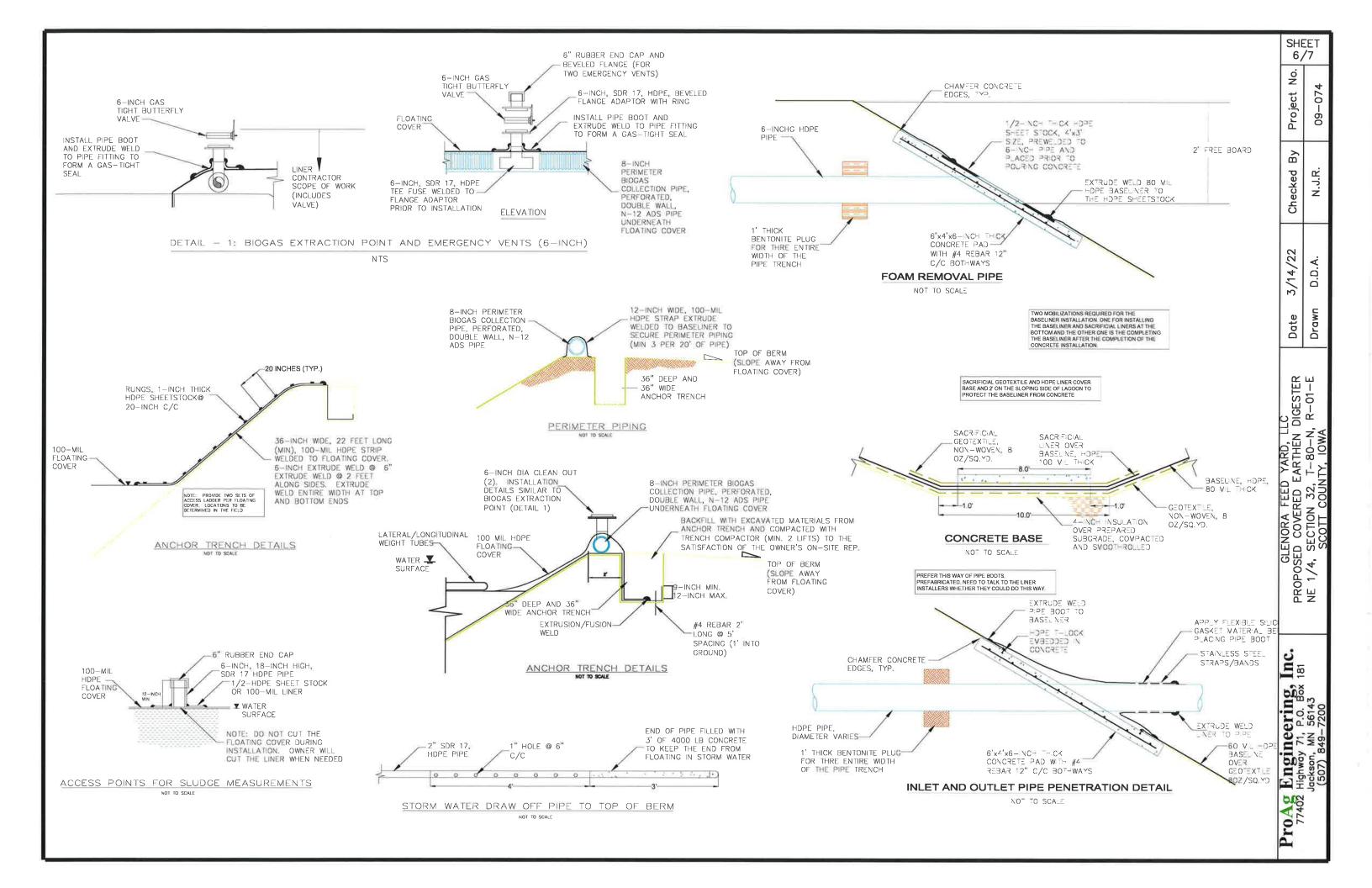


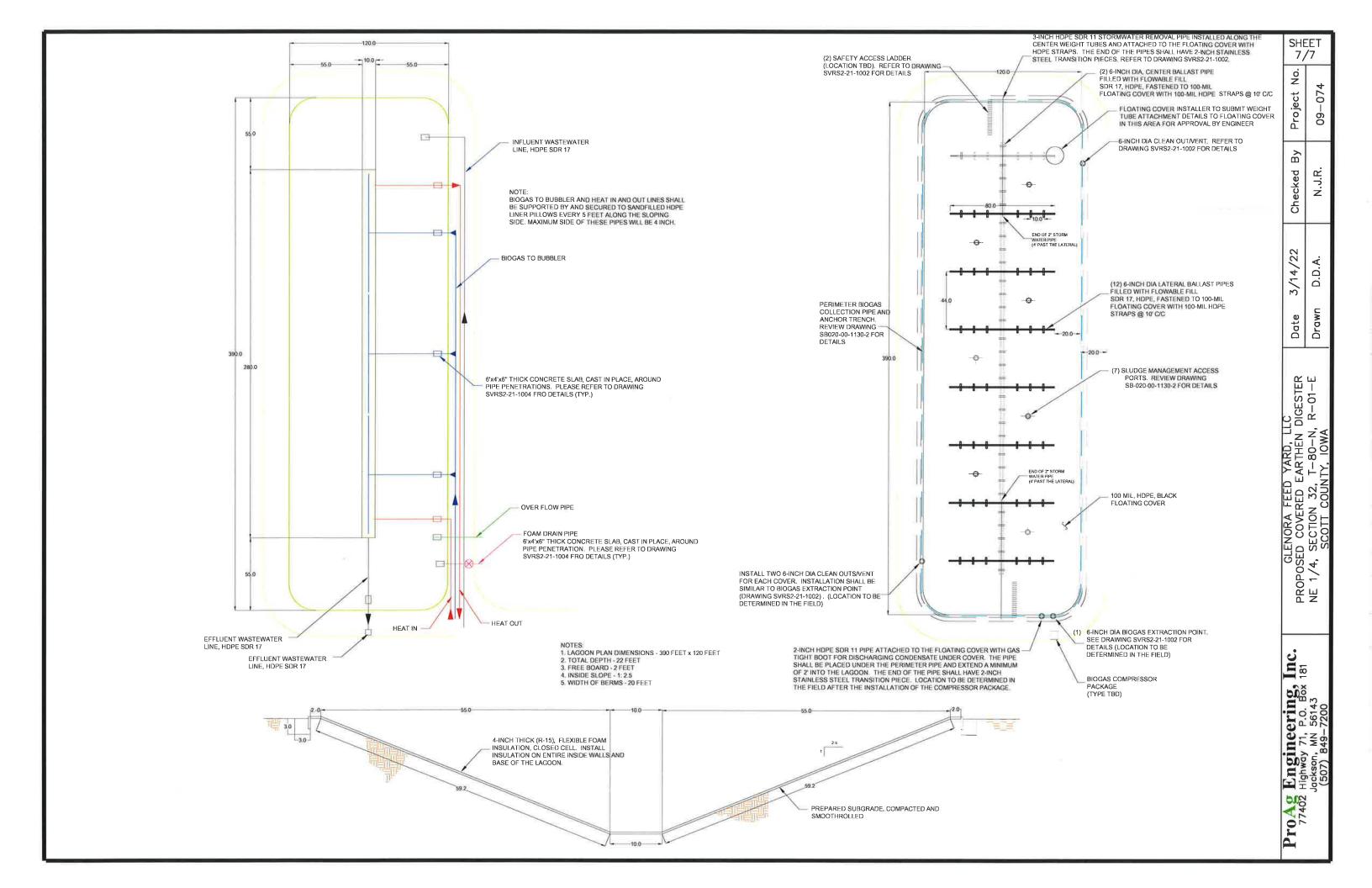












Scott County Scoring of Master Matrix for Sievers Family Farms LLC, 2022 Expansion

The Master Matrix has 44 possible scoring criteria:

The first 25 are listed under Proposed Site Characteristics,

The remaining 19 are listed under Proposed Site Operation and Manure Management Practices.

Applicants can choose amongst the various criteria in order to score points. Each criterion has a total point value which is then divided and weighted between any of the three subcategories of Air, Water, and Community.

The County can review each criterion upon which the applicant has scored and concur or not concur that the points are accurately taken. The County only reviews the criteria the applicant has used to score points, other criterion for which points are not taken are not evaluated, even though the application may meet that criterion. The selection of scoring criteria is the applicant's option. Evaluating that scoring is the County's option by adopting the Master Matrix.

Proposed Site Characteristics

	Scoring Criteria	Total Score	Air	Water	Community
#2 Additional separation dist Public use area (greater t		30	12.00	0.00	18.00
#3 Additional separation dist church or business (greater than 1,500 feet)	ance from closest school,	30	12.00	0.00	18.00
#4 Additional separation dist minimum, to closest wate (751 - 1,000 feet)		15	0.00	15.00	0.00
#5 Separation distance of 30 Proposed confinement str Thoroughfare (300 feet o	ructure to the nearest	30	9.00	0.00	21.00
#6 Additional separation dist Of 1,875 feet, from confi critical public area (500 f	nement to the closest	10	4.00	0.00	6.00
#8 Additional separation dist 1,000 feet from drainage water source (greater that	well, known sink hole or major	50	5.00	25.00	20.00
#10 Separation distance from or protected water area (2 of 500 feet)	closest high quality waters 2x the minimum separation dist	30 ance	0.00	22.50	7.50

Scoring Criteria	Total Score	Air	Water	Community
#12 Liquid manure storage structures are covered	30	27.00	0.00	3.00
#16 Enhancement, above minimum requirements, of structures used in stockpiling and composting activities, such as an impermeable pad and a roof or cover	30	9.00	18.00	3.00
#17 Proposed Manure Storage Structure is Formed	30	0.00	27.00	3.00
#19 Truck Turnaround	20	0.00	0.00	20.00
#20 No history of Administrative Orders in last five years	30	0.00	0.00	30.00
#22 Homestead Tax Exemption	25	0.00	0.00	25.00
#23 Family Farm Tax Credit	25	0.00	0.00	25.00
#25 Construction permit application includes livestock feedi and watering systems that significantly reduce manure vol		0.00	12.50	12.50

Proposed Site Operation and Manure Management Practices

Scoring Criteria	Total Score	Air	Water	Community
#26 Injection or incorporation of manure on the same it is land applied	e date 30	12.00	12.00	6.00
#32 Additional Separation distance of 200 feet for la application of manure to closest school, church, or business	nd 5	2.00	0.00	3.00
#35 Additional separation distance of 400 feet above requirements for the land application of manure high quality waters or protected water area		0.00	7.50	2.50
#40 Construction permit application contains an eme action plan	ergency 5	0.00	2.50	2.50
Total Scoring by Sievers Family Farms LLC	460	92.00	142.0	0 226.00
Total Scoring by Scott County	460	92.00	142.0	0 226.00
Minimum Score required to Pass Master Matri	ix 440	53.38	67.75	101.13

PIN * P	PropertyA	c DeedHold	DeedAddr1	DeedAddr3	DeedZip	MailName	MailAddr1	MailAddr3	MailZip
13317001 <	<null></null>	VAN DEN BERGHE TRUST FBO STEVEN EUGENE VAN DEN BER	26789 20TH AV	STOCKTON, IA 52769	5276	9 VAN DEN BERGHE TRUST FBO STEVEN EUGENE VAN DEN BER	26789 20TH AV	STOCKTON, IA 52769	52769
13301003 2	26789 201	T VAN DEN BERGHE STEVEN E	26789 20TH AV	STOCKTON, IA 52769	5276	VAN DEN BERGHE STEVEN E	26789 20TH AV	STOCKTON, IA 52769	52769
13205001 <	<null></null>	KRUSE GERALD D	2193 290TH ST	NEW LIBERTY, IA 52765	5276	5 KRUSE GERALD D	2193 290TH ST	NEW LIBERTY, IA 52765	52765
13207001 <	<null></null>	SIEVERS BRYAN J	26618 20TH AVE	STOCKTON, IA 52769	5276	9 SIEVERS BRYAN J	26618 20TH AVE	STOCKTON, IA 52769	52769
13203001 <	<null></null>	URMIE STEVEN	26761 10TH AV	STOCKTON, IA 52769	5276	9 URMIE STEVEN	26761 10TH AV	STOCKTON, IA 52769	52769
13219001 <	<null></null>	URMIE STEVEN	26761 10TH AV	STOCKTON, IA 52769	5276	9 URMIE STEVEN	26761 10TH AV	STOCKTON, IA 52769	52769
13223004 2	26618 201	T SIEVERS BRYAN J	27135 1ST AVE	NEW LIBERTY, IA 52765	5276	5 SIEVERS BRYAN J	27135 1ST AVE	NEW LIBERTY, IA 52765	52765
13239001 <	<null></null>	LIBERTY LAND ENTERPRISES LLC	26618 20TH AV	STOCKTON, IA 52769	5276	LIBERTY LAND ENTERPRISES LLC	26618 20TH AV	STOCKTON, IA 52769	52769
13237001 <	<null></null>	LIBERTY LAND ENTERPRISES LLC	26618 20TH AV	STOCKTON, IA 52769	5276	LIBERTY LAND ENTERPRISES LLC	26618 20TH AV	STOCKTON, IA 52769	52769
13235001 <	<null></null>	MARILYN STEFFEN LIVING TRUST	1750 STONE GATE CIR	DAVENPORT, IA 52807	5280	7 MARILYN STEFFEN LIVING TRUST	1750 STONE GATE CIR	DAVENPORT, IA 52807	52807
12951001 <	<null></null>	AUGUST MICHAEL L	1535 NEW LIBERTY RD	NEW LIBERTY, IA 52765	5276	5 AUGUST MICHAEL L	1535 NEW LIBERTY RD	NEW LIBERTY, IA 52765	52765
12953001 <	<null></null>	AUGUST MICHAEL L	1535 NEW LIBERTY RD	NEW LIBERTY, IA 52765	5276	5 AUGUST MICHAEL L	1535 NEW LIBERTY RD	NEW LIBERTY, IA 52765	52765
12955004 <	<null></null>	KELTING JERRY H	13126 275TH ST	DONAHUE, IA 52746	5274	5 KELTING JERRY H	13126 275TH ST	DONAHUE, IA 52746	52746
13333002 <	<null></null>	VAN DEN BERGHE TRUST FBO STEVEN EUGENE VAN DEN BER	26789 20TH AV	STOCKTON, IA 52769	5276	9 VAN DEN BERGHE TRUST FBO STEVEN EUGENE VAN DEN BER	26789 20TH AV	STOCKTON, IA 52769	52769
13221002 <	<null></null>	SIEVERS BRYAN J	26618 20TH AVE	STOCKTON, IA 52769	5276	Ə SIEVERS BRYAN J	26618 20TH AVE	STOCKTON, IA 52769	52769
13223006 <	<null></null>	SIEVERS BRYAN J	26618 20TH AVE	STOCKTON, IA 52769	5276	9 SIEVERS BRYAN J	26618 20TH AVE	STOCKTON, IA 52769	52769
13223007 <	<null></null>	GLENORA FEED YARD LLC	26618 20TH AVE	STOCKTON, IA 52769	5276	9 GLENORA FEED YARD LLC	26618 20TH AVE	STOCKTON, IA 52769	52769
13221003 <	<null></null>	SIEVERS FAMILY FARMS LLC	26618 20TH AVE	STOCKTON, IA 52769	5276	SIEVERS FAMILY FARMS LLC	26618 20TH AVE	STOCKTON, IA 52769	52769
13333004 <	<null></null>	VAN DEN BERGHE TRUST FBO STEVEN EUGENE VAN DEN BER	26789 20TH AV	STOCKTON, IA 52769	5276	9 VAN DEN BERGHE TRUST FBO STEVEN EUGENE VAN DEN BER	26789 20TH AV	STOCKTON, IA 52769	52769

ITEM 10

COUNTY VERIFICATION RECEIPT OF DNR CONSTRUCTION PERMIT APPLICATION

This form provides proof that the County Board of Supervisors has been provided with a complete copy of the construction permit application documents (everything except the fees) for the confinement feeding operation or a complete MMP has been provided to the County because manure will be applied in that county:

Applicant: Sievers Family arms, L.L.C.						Telephone:	563-340-6541
Name of operation: Glenora Feed Yard, L.L.C.							
Location:	S 1/	-	32	T-80-N, R-		Liberty	Scott
	(1/4)	(1/4)	(Section)	(Tier & Rar	ige) (Na	ame of Township)	(County)
Documents being submitted to the county:							
 Construction permit application form: submit items 1 to 9 (see Submittal Checklist No. 1 or 2) Attachment 1 - Aerial photos: Must clearly show the location of the proposed confinement feeding operation structure¹ and that all the separation distances are met, including those claimed for points in the master matrix (if applicable). Attachment 2 - Statement of design certification, submit any of the following (see Checklist No. 1 or 2): Construction Design Statement form Professional Engineer (PE) Design Certification form Engineering report, construction plans and technical specifications In addition, if proposing an unformed manure storage structure³ or an egg washwater storage structure submit documentation required in Addemdum "A" of this construction application form. Attachment 3 - Manure management plan (MMP). Attachment 4 - Master Matrix (if required). You must include supporting documents (see Checklist No. 1 or 2) 							
Revised Do	cuments:	Application		🗌 Matrix		Other	
THIS SECTION IS RESERVED FOR THE COUNTY							
As soon as DNR receives a construction permit application, the DNR will fax your County Auditor a "Courtesy reminder letter" explaining what actions your County Board of Supervisors must complete and the deadlines.							
Public Notice is required for <u>all</u> construction permit applications, including those applications not required to be evaluated with the master matrix and applications in counties not participating in the Master matrix.							
 Counties participating in the master matrix: the county's master matrix evaluation and county's recommendation is required for the following cases: A new confinement feeding operation that is applying for a construction permit An existing confinement feeding operation that was first constructed on or after April 1, 2002 that is applying for a construction permit. An existing confinement feeding operation that was first constructed prior to April 1, 2002 that is applying for a construction 							
permit with an animal unit capacity (AUC) is 1,667 animal units (AU) or more.							
I have read and acknowledge the county's duty with this construction permit application, as specified in 567 IAC 65.10 and Iowa Code 459.304. On behalf of the Board of Supervisors for:							
COUNTY:							
NAME:							
TITLE:							
(Member of the County Board of Supervisors or its designated official/employee)							
Date:		, 20					
Date:, 20 If you do not receive the courtesy reminder letter within a reasonable time, or if you have any questions, please contact the animal feeding operations (AFO) Program at (712) 262-4177 or visit www.lowaDNR.gov							

GLENORA FEED YARD, LLC. IDNR FACILTIY ID#66391 PROPOSED COVERED EARTHEN MANURE DIGESTER SCOTT COUNTY, IOWA

ProAg Job #09-074

March 2022

ProAg Engineering, Inc.

Nicholaus J. Rowe, P.E. P.O. Box 181 Jackson, MN 56143 507-841-3269 nic@proageng.com Justin D. Sprague, P.E. 302 Broadway Audubon, IA 50025 507-329-2440 justin@proageng.com

ProAg Engineering, Inc.

Nicholaus J. Rowe, P.E. P.O. Box 181 Jackson, MN 56143 507-841-3269 nic@proageng.com Justin D. Sprague, P.E. 302 Broadway Audubon, IA 50025 507-329-2440 justin@proageng.com

March 12, 2022

Mr. Paul Petitti, P.E. IDNR – Field Office #3 1900 N. Grand Avenue Gateway North Suite E17 Spencer, IA 51301

RE: Glenora Feed Yard, LLC, IDNR Facility ID#66391 Proposed Covered Earthen Digester Scott County, Iowa ProAg Project No: 09-074

Dear Paul:

Glenora Feed Yard, LLC, is an existing cattle confinement operation that was permitted for 4,888 head of cattle in four confinement barns along with an anaerobic digester and two earthen storage basins. Approximately half the site was built with two of the four confinement barns and one of the two earthen basins constructed. At this time the operation would like to build another anaerobic digester consisting of a covered earthen basin with an HDPE liner and cover along with all the associated manure pumps and pipelines.

There are no other changes proposed to the site. The site is not reapplying for the construction of the two additional confinement barns and therefore is reducing its permitted number of head down to 2,444 head of finishing cattle. The proposed covered earthen digester is located in the same location as the second earthen manure storage basin was previously permitted. The proposed covered earthen digester doesn't provide any additional storage volume to the site as it will be remain full at all times.

The existing site consists of two confinement barns, two concrete reception pits, a concrete circular manure storage tank, a solids separator, a concrete storage bunkers, two digester tanks, and one earthen manure storage basin. Each confinement barn holds 1,222 head and is 640' x 90' with a 12' wide slatted floor and 2' deep pits. All of the shallow pits are cleaned daily with underslat cable manure scrapers that push the manure into concrete reception pits (54' x 12' x 8' deep). A pump in each concrete reception pit supplies the anaerobic digesters. From the digesters the waste will be transferred to the concrete circular tank which will be heated and covered and turned into an additional digester tank. Effluent from this third digester tank will then be pumped to the proposed covered earthen digester. Liquid effluent will flow off the top of the covered earthen digester will be pumped to the solids separator. The existing cattle confinement operation is located in NE¹/₄, Section 32, T-80-N, R-1-E, approximately two miles south of New Liberty in Scott County, Iowa.

MASTER MATRIX

The Master Matrix was completed for the proposed covered earthen manure storage basin and it meets the minimum score requirements. All four categories have the minimum number of points required. Our figures show the following totals:

TOTAL SCORE = 455 AIR = 92.50 WATER = 116.50 COMMUNITY = 246

Mr. Paul Petitti, P.E. March 12, 2022 Page 2

SEPARATION DISTANCES

The proposed covered earthen digester has no separation distance concerns. The proposed unformed covered earthen digester needs to meet the required 1,875 feet setback to residences. All of the other required separation distances are shown on the enclosed site plan drawing and mile radius map.

PROPOSED COVERED EARTHEN DIGESTER DESIGN

The proposed covered earthen basin will be operated as an anaerobic digester. Manure and wastewater will be pumped from the existing concrete circular tank to the proposed earthen digester. The earthen digester will be constructed with an eighteen (18) clay liner then four (4) inches of insulation and then an HDPE liner over the insulation. The bottom will have concrete floor poured over the HDPE liner to anchor the proposed bubbler aeration system. The earthen digester will be covered with HDPE in order to capture the methane gas.

The digestate is continually moved through the earthen digester so no additional storage volume is added to the site. An overflow pipe near the top of the dike elevation will send the effluent from the proposed earthen digester to the existing earthen basin. A pump and suction pipe will pull settled sludge from off the bottom of the proposed digester to feed the solids separation facility. The proposed earthen digester is designed according to the requirements of I.A.C. 567-65.15(12) for earthen manure storage basins.

SITE GEOLOGY & GROUNDWATER

The proposed site is located in the Tama soil series characterized by a silty clay loam. The depth to bedrock is approximately 50 feet and no sinkholes or other karst features are mapped in the area. Claire Hruby, IDNR Geologist, completed a karst determination (#2022) to verify the site is not in karst. The determination is enclosed.

TEAM Services completed a subsurface exploration for the previously permitted earthen basins. A couple of those borings did not extend to the required depth below the bottom of the proposed earthen digester. Additional borings were dug recently to the required depth and have been added to the previous geotechnical report. Loess soil was found above a small deposit of alluvium with glacial till below. The alluvium was found to hold groundwater perched above the glacial till and the earthen digester bottom is set in the glacial till and does not meet the required two (2) feet separation distance above the seasonal high groundwater elevation found in the alluvium. The firm massive glacial till is ideal for the clay liner however a perimeter drain tile must be installed to divert the perched groundwater away from the basin. A six (6) inch drain tile will be installed around the outside perimeter of the proposed earthen basin at a minimum elevation of two (2) feet below the basin bottom elevation. This drain tile will outlet into existing drain tile at the northeast corner of the existing basin and a tile isolation valve and monitoring port will be installed at the outlet location.

The normal maximum liquid level in the basin will be twenty (20) feet or less. The maximum allowable leakage according to the IDNR is 1.31 x 10⁻⁷ cm/sec. using a depth equivalent to the maximum liquid level in the basin. The excavated clay loam soil on site should be satisfactory to construct the dikes and liner and has been successfully used on other projects on site. A sample of the clay loam soil found at the proposed bottom elevation and what will be used for the compacted clay liner was tested with the coefficient of permeability meeting IDNR liner requirements. The soil testing results and completed subsurface investigation report are enclosed.

Mr. Paul Petitti, P.E. March 12, 2022 Page 3

Enclosed please find four (4) copies of the following:

- 1. IDNR Confinement Construction Permit Application, including check for \$500.00
- 2. 1 mile radius map of site
- 3. Completed Master Matrix w/ supporting documents
- 4. Emergency Response Plan
- 5. Closure Plan
- 6. IDNR AFO Siting Map
- 7. IDNR Karst Map of Site
- 8. IDNR Karst Determination
- 9. Flood Plain Map of site
- 10. Operation and Maintenance Manual
- 11. Drainage Tile Certification
- 12. Technical Specifications
- 13. Soils Report from TEAM Services
- 14. Drawings showing proposed structures and details

Please note that there are no changes to the Manure Management Plan and therefore is not included in this submittal.

The location is on property owned by Sievers Family Farms, LLC. The location of the site is the NE¹/₄, Section 32, T80N, R1E, Scott County, Iowa. The contact person regarding this site during the site survey is Bryan Sievers at 563-340-6541.

We trust the above information is adequate for your review and approval. Should you have any questions, please do not hesitate to call me at 507-849-7200.

Respectfully Submitted,

Nicholaus J. Rowe, P.E. ProAg Engineering, Inc.

Enclosures cc: Sievers Family Farms, LLC

Iowa Department of Natural Resources



Construction Permit Application Form

Confinement Feeding Operations

INSTRUCTIONS:

Prior to constructing, installing, modifying or expanding a confinement feeding operation structure¹, answer questions 1-8 on Item 3, Section A (page 2), to determine if a construction permit is required. To calculate the animal unit capacity (AUC) of the operation, complete Table 1 (page 4). If a construction permit is required, complete the rest of the form, have the applicant(s) sign it on pages 5 and 6. Mail to the DNR (see address on page 5) this application form, documents and fees requested in Checklist No. 1 or 2 (pages 10-15). See item 5 (page 5), to determine which checklist to use.

If a construction permit is not needed, some pre-construction requirements may still apply prior to the construction of a formed manure storage structure². See page 5 for additional DNR contact information.

THIS APPLICATION IS FOR:

- 1. A new confinement feeding operation
- 2. X An existing confinement feeding operation (answer all of the following questions)
 - a) Facility ID No. (5 digit number): 66391
 - b) Date when the operation was first constructed: 2010 Separation distance table used: 6
 - c) Date when the last construction, expansion or modification was completed: 2014

(Not needed if the confinement operation has previously received a construction permit from DNR.)

d) Is this also an ownership change? 🗌 Yes 🔀 No 🛛 If yes box is checked additional fees apply. See page 8

ITEM 1 – LOCATION AND CONTACT INFORMATION (See page 17 for instructions and an example):

A) Name of operation: Glenora Feed Yard, L.L.C.

Location:	S 1/2	NE 1/4	32	T-80-N, T-1-E	Liberty	Scott
	(1/4 1/4)	(¼)	(Section)	(Tier & Range)	(Name of Township)	(County)
Applicant inf	ormation:					
Name: Siev	vers Family Far	ms, L.L.C.		Title:	Owner	
Address: 2	6618 20th Ave	nue, New Liber	ty IA 52765			
Telephone:	563-893-2930	Fax:	<u></u>	Email:		
Person to co	ntact with ques	tions about thi	s application	(if different than appli	cant):	
Name: Bry	an Sievers			Title:	President	
1	7135 1st Avenu	ue, New Liberty	, IA 52765			
Address: 2		· · · · ·				

- Enclose aerial photo or engineering drawing showing the proposed location of the confinement feeding operation structure¹ and all applicable separation distances, as requested in Attachment 1 (pages 11-12 or 14-15). See example of aerial photo on pages 18 to 19, at the end of this form.
- I manage or have a 10% or more ownership interest in another confinement feeding operation located within 2,500 feet of the proposed site. Please contact the DNR AFO Program staff at (712) 262-4177 to verify site adjacency requirements.

¹ Confinement feeding operation structure = animal feeding operation structure (confinement building, manure storage structure or egg washwater storage structure) that is part of a confinement feeding operation. Manure storage structures include formed and unformed manure storage structures. ² Formed manure storage structure = covered or uncovered concrete or steel tanks, and concrete pits below the building.

ITEM 2 – SITING INFORMATION:

A

)	Karst Determination: Go to DNR AFO Siting Atlas at http://programs.iowadnr.gov/maps/afo/. Search for your site by either
	scrolling into your location or entering an address or legal description in the bottom search bar. Left click on the location of your
	proposed structure. Make sure the karst layer box is checked on the map layers. If you cannot access the map, or if you have
	questions about this issue, contact the AFO Engineer at (712) 262-4177. Check one of the following:
	V The site is not in kompton stantial least Drint and an inclusion with the stantial stanti

X	The site is not in karst or potential karst. Print and enclose the map with the name and location of the site clearly marked.
	The site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used. Refer to "Applicant's submittal
	checklist" on page 10 for karst documentation.

B) Alluvial Soils Determination: Go to the AFO Siting Atlas as described above. Make sure the alluvial layer box is checked on the map legend. If you cannot access the map, or if you have questions about this issue, contact DNR Flood Plain at (866) 849-0321. Check one of the following:

X The site is not in alluvial soils. Print and enclose the map with the name and location of the site clearly marked.

The site is in alluvial soils. You will need to submit a request for a flood plain determination from DNR Flood Plain (866) 849-0321. After receiving determination submit one of the following:

Not in 100-year floodplain or does not require a flood plain permit. Include correspondence from the DNR Flood Plain Section.

Requires flood plain permit. Include flood plain permit.

Documentation has been submitted to determine site is not in alluvial soils. Refer to "Applicant's Submittal Checklist" on page 10 for alluvial soils documentation.

ITEM 3 – OPERATION INFORMATION:

A) A construction permit is required prior to any of the following:

- 1. X Constructing or modifying any unformed manure storage structure³, constructing or modifying a confinement building that uses an unformed manure storage structure³, or increasing animal units in a confinement building that uses an unformed manure storage structure.
- 2. Constructing, installing or modifying a confinement building or a formed manure storage structure² at a confinement feeding operation if, after construction, installation or expansion, the AUC of the operation is 1,000 animal units (AU) or more. This also applies to confinement feeding operations that store manure exclusively in a dry form.
- 3. Initiating a change that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in any unformed manure storage structure³, even if no construction or physical alteration is necessary. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
- 4. Initiating a change, even if no construction or physical alteration is necessary, that would result in an increase in the volume of manure or a modification in the manner in which manure is stored in a formed manure storage structure² if, after the change, the AUC of the operation is 1,000 AU or more. Increases in the volume of manure due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.
- 5. Constructing or modifying any egg washwater storage structure or a confinement building at a confinement feeding operation that includes an egg washwater storage structure.
- 6. Initiating a change that would result in an increase in the volume of egg washwater or a modification in the manner in which egg washwater is stored, even if no construction or physical alteration is necessary. Increases in the volume of egg washwater due to an increase in animal capacity, animal weight capacity or AUC up to the limits specified in a previously issued construction permit do not require a new construction permit.

7. Repopulating a confinement feeding operation if it was closed for 24 months or more and if any of the following apply:

- 1.
 The confinement feeding operation uses an unformed manure storage structure³ or egg washwater storage structure;
- 2.
 The confinement feeding operation includes only confinement buildings and formed manure storage structures² and has an AUC of 1,000 AU or more.
- 8. 🗌 Installing a permanent manure transfer piping system, unless the department determines that a construction permit is not required.

³ Unformed manure storage structure = covered or uncovered anaerobic lagoon, earthen manure storage basin, aerobic earthen structure. 03/2021 cmc 2

The site is within 1,000 feet of a known sinkhole, Secondary Containment Barrier is required in accordance with 567 IAC 65.15(17).

B) In your own words, describe in detail, the proposed construction, expansion, installation, modification or repair being proposed in this project. (Must be completed) Attach additional pages if necessary:

The existing cattle confinement operation is proposing to construct a covered earthen plug-flow digester.

C)	Master Matrix (must check one). If any of boxes 1 to 3 are checked, the operation is required to be evaluated with the master
	matrix if the county, where the confinement feeding operation structure ¹ is or would be located, has adopted a 'Construction
	Evaluation Resolution' (CER). Select the one that best describes your confinement feeding operation:

- 1. A new confinement feeding operation proposed in a county that has adopted a CER.
- 2. An existing operation constructed on or after April 1, 2002, in a county that has adopted a CER.
- 3. X An existing operation constructed prior to April 1, 2002, with a current or proposed AUC of <u>1,667 AU or more</u>, in a county that has adopted a CER.
- 4. [_] None of the above. Therefore, the master matrix evaluation is not required.
- D) Qualified Operation (must check one). If any of boxes 1 to 4 are checked, the operation is also a 'qualified operation'. A qualified operation is required to use a manure storage structure that employs bacterial action which is maintained by the utilization of air or oxygen, and which shall include aeration equipment. However, this requirement does not apply if box 5 is checked. Select the one that best describes your confinement feeding operation:
 - 1. A swine farrowing and gestating operation with an AUC of 2,500 AU or more. If the replacement breeding swine are raised and used at the operation, the animal units for those replacement animals do not count in the operations total AUC for the purpose of determining a qualified operation.
 - 2. A swine farrow-to-finish operation with an AUC of 5,400 AU or more.
 - 3. A cattle confinement feeding operation (including dairies) with an AUC of 8,500 AU or more.
 - 4. Other confinement feeding operations with an AUC of 5,333 AU or more.
 - 5. X This is not a qualified operation because:
 - a. 🔀 It is below the limits shown on boxes 1 to 4.
 - b. 🔲 It includes a confinement feeding operation structure¹ constructed prior to May 31, 1995.
 - c. It handles manure exclusively in a dry form (poultry).

ITEM 4 – ANIMAL UNIT CAPACITY (AUC) and, if applicable, ANIMAL WEIGHT CAPACITY (AWC):

A) Calculating AUC ~ Required for all operations

For each animal species, multiply the maximum number of animals that you would ever confine at one time by the appropriate factor, then add all AU together on Table 1 (page 4). Use the maximum market weight for the appropriate animal species to select the AU factor.

You must complete all applicable columns in Table 1. Use column a) to calculate the existing AUC, before permit for existing operations only. Use column b) to calculate the 'Total proposed AUC' (after a permit is issued) including new operations. The number obtained in column b) is the AUC of the operation and must be used to determine permit requirements. Use column c) to calculate the 'New AU' to be added to an existing operation. To calculate the indemnity fee (see page 7), also use column c), however, if the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in the "New AU" (column c).

In calculating the AUC of a confinement feeding operation, you must include the AUC of all confinement buildings which are part of the confinement feeding operation, unless a confinement building has been abandoned. A confinement feeding operation structure¹ is abandoned if the confinement feeding operation structure¹ has been razed, removed from the site of a confinement feeding operation, filled in with earth, or converted to uses other than a confinement feeding operation structure¹ so that it cannot be used as a confinement feeding operation structure¹ without significant reconstruction. Therefore, in Table 1, enter the animal unit capacity of all the confinement buildings, including those that are from an "adjacent" operation located within 2,500 feet. For more information, contact the AFO Program at (712) 262-4177.

Animal Species	a) Existing AUC (Before permit)			b) Total AUC (After permit)			
	(No. Head)	x (Factor)	= AUC	(No. Head)	x (Factor)	= AUC	1
Slaughter or feeder cattle	2444	1.0	2444	2444	1.0	2444	
Immature dairy cattle		1.0			1.0		1
Mature dairy cattle		1.4			1.4		1
Gestating sows		0.4			0.4		
Farrowing sows & litter		0.4			0.4]
Boars		0.4			0.4		Note: If the "Existing AUC"
Gilts		0.4		-	0.4		(column a) is 500 AU or less
Finished (Market) hogs		0.4			0.4		enter the "Total proposed AUC" (column b) in the "Nev
Nursery pigs 15 lbs to 55 lbs		0.1			0.1		AU" (column c)
Sheep and lambs		0.1			0.1		
Goats		0.1		2 C	0.1		1
Horses		2.0			2.0		1
Turkeys 7 lbs or more		0.018			0.018		1
Turkeys less than 7 lbs		0.0085			0.0085		1
Broiler/Layer chickens 3 lbs or more		0.01			0.01		1
Broiler/Layer chickens less than 3 lbs		0.0025			0.0025		
Ducks		0.04	21		0.04		
Fish 25 grams or more		0.001			0.001		1
Fish less than 25 grams		0.00006			0.00006		c) New AU = b) - a):
TOTALS:	a) I	Existing AUC:	2444		oposed AUC: AUC of the ope	2444 ration)	0

B) Calculating AWC - Only for operations first constructed prior to March 1, 2003

The AWC is needed for an operation that was first constructed prior to March 1, 2003, to determine some of the minimum separation distance requirements for construction or expansion.

The AWC is the product of multiplying the maximum number of animals that you would ever confine at any one time by their average weight (lbs) during the production cycle. Then add the AWC if more than one animal species is present (examples on how to determine the AWC are provided in 567 IAC 65.1(455B).)

If the operation was first constructed prior to March 1, 2003, you must complete all applicable columns in Table 2:

Animal Species	a) Existing AWC (Before Permit)			 b) Proposed AWC (After permit) 			
Slaughter or feeder cattle	(No. head) x	avg weight	= AWC	(No. head) x	avg weight	= AWC	
Slaughter or feeder cattle	2444	1000	244000	2400	1000	244400	1
Immature dairy cattle			1				1
Mature dairy cattle							
Gestating sows							
Farrowing sows & litter				ļ.			
Boars							
Gilts							
Finished (Market) hogs							
Nursery pigs 15 lbs to 55 lbs							
Sheep and lambs							
Goats							
Horses							
Turkeys 7lbs or more					C		
Turkeys less than 7 lbs							
Broiler/Layer chickens 3 lbs or more							
Broiler/Layer chickens less than 3 lbs							
Ducks							
Fish 25 grams or more							
Fish less than 25 grams							c) New AWC = b) - a)

(This is the AWC of the operation)

ITEM 5 - SUBMITTAL REQUIREMENTS Checklists No. 1 or 2 (pages 10-15) describe the submittal requirements, which are based on the type of confinement feeding operation structure¹ and AUC proposed. To determine which checklist to use, choose the option that best describes your confinement feeding operation:

- A) X Formed manure storage structures²: The proposed confinement feeding operation structure¹ will be or will use a formed manure storage structure². Check one of the following boxes: 1.
 - A swine farrowing and gestating operation with an AUC of 1,250 AU or more. Use Submittal Checklist No. 2 (page 13). 2.
 - A swine farrow-to-finish operation with an AUC of 2,750 AU or more. Use Submittal Checklist No. 2 (page 13).
 - 3. A cattle confinement feeding operation (including dairies) with an AUC of 4,000 AU or more. Use Submittal Checklist No. 2 (page 13).
 - Other confinement feeding operations with an AUC of 3,000 AU or more. Use Submittal Checklist No. 2 (page 13). 4. 🗍
 - 5. X None of the above. Use Submittal Checklist No. 1 (page 10).

If any of boxes 1 to 4 are checked, the operation meets the threshold requirements for an engineer⁴ and a Professional Engineer (PE), licensed in Iowa, is required. For these cases, use Submittal Checklist No. 2 (page 13).

If you checked box 5, your operation is below threshold requirements for an engineer⁴ and a Professional Engineer (PE) is not required. Use Submittal Checklist No. 1 (page 10).

B) X Unformed manure storage structure³: The proposed confinement feeding operation structure¹, will be or will use an unformed manure storage structure³ or an egg washwater storage structure. A Professional Engineer (PE) licensed in Iowa must design and sign the engineering documents for any size of operation. Use Submittal Checklist No. 2 (page 13) and Addendum "A" (page 16).

ITEM 6- UTILIZING RURAL WATER SYSTEM FOR WATER SUPPLY

The proposed facility will utilize rural water and the providing rural water system has been notified and is aware of the proposed increase in water use.

ITEM 7 - SIGNATURE:

I hereby certify that the information contained in this application is complete and accurate.

Signature of Applicant(s):

Date:

MAILING INSTRUCTIONS:

To expedite the application process, follow the submittal requirements explained in Checklist No. 1 or 2 (pages 10 to 16), whichever applies. Page 1 of this form should be the first page of the package. Mail all documents and fees to:

Iowa DNR AFO Program 1900 N Grand Ave Gateway North, Ste E17 Spencer, IA 51301

(Note: Incomplete applications will be returned to the sender.)

Questions

Questions about construction permit requirements or regarding this form should be directed to an engineer of the animal feeding operations (AFO) Program at (712) 262-4177. To contact the appropriate DNR Field Office, go to http://www.iowadnr.gov/fieldoffice.

⁴ Threshold requirements for an engineer apply to the construction of a formed manure storage structure². Operations that meet or exceed the threshold requirements for an engineer are required to submit engineering documents signed by a professional engineer licensed in the state of Iowa. Please refer to Checklist No. 2 (pages 13-15). 03/2021 cmc

ITEM 8

Interested Parties Form Confinement Feeding Operation

Interest means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly or indirectly through a spouse or dependent child, or both.

INSTRUCTIONS:

Please list all persons (including corporations, partnerships, etc.) who have an interest in any part of the confinement feeding operation covered by this permit application.

Full Name	Address	City/State	Zip	
Sievers Family Farms L.L.C.	27135 1st Avenue	New Liberty, IA	52765	

For each name above, please list below all other confinement feeding operations <u>in lowa</u> in which that person has an interest. Check box "None", below, if there are no other confinement feeding operations in lowa in which the above listed person(s) has or have an interest.

Operation Name	Location (¼ ¼, ¼, Section, Tier, Range, Township, County)	City
X None [There are no other confine	ments in lowa in which the above listed person(s) has or have an interest].	

I hereby certify that the information provided on this form is complete and accurate.

Signature of Applicant(s):

eren

Date: 022

Manure Storage Indemnity Fee Form for Construction Permits

CASHIER'S USE ONLY 0474-542-474A-0431 Facility ID # County

Credit fees to: Glenora Feed Yard, L.L.C.

Name of operation: Glenora Feed Yard, L.L.C.

INSTRUCTIONS:

- 1) Use the 'Total Proposed AUC' from column b), Table 1 (page 4), to select the appropriate fee line in the table below. The 'Total Proposed AUC' is the AUC of the operation.
- 2) Select the animal specie and row number (see examples). Enter the 'New AU' from column c), Table 1 (page 4). The 'New AU' is the number of AU to be added to an existing operation or being proposed with a new operation. <u>Note</u>: If the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in "New AU" (column c).
- 3) Multiply the 'New AU' by the appropriate 'Fee per AU'. The resulting number is the indemnity fee due.
 - Example 1: An existing swine operation is expanding from an 'Existing AUC' of 1,000 AU to a 'Total Proposed AUC' of 1,800 AU, and has previously paid an indemnity fee for the existing 1,000 AU. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is other than poultry; enter 800 AU in the 'New AU' column, row 4, and multiply it by \$ 0.15:

(800 AU) x (\$ 0.15 per AU) = \$ 120.00

Example 2: An existing poultry operation is expanding from an 'Existing AUC' of 250 AU to a 'Total Proposed AUC' of 2,000 AU and has not paid the indemnity fee for animals housed in the existing buildings. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is poultry and the indemnity fee has not previously been paid, enter 2,000 AU in the 'New AU' column on row 3, and multiply it by \$0.06:

Example 3: If you are proposing a new swine confinement feeding operation with a 'Total Proposed AUC' of 3,500 AU, enter 3,500 AU in the 'New AU' column, row 6 and multiply it by \$ 0.20:

(3,500 AU) x (\$ 0.20 per AU) = \$ 700.00

Example 4: If you are applying for a construction permit but you are not increasing the AUC of the operation, and has
previously paid the applicable indemnity for the animals housed in the existing buildings, there is no indemnity fee due (\$
0.00). If no indemnity fee is due, do not submit this page.

Indemnity Fee Table:

Total Proposed AUC (After Permit (from column B, Table 1)	Row	Animal species	New AU (from column C Table 1)	x	Fee per AU	Indemnity Fee
Less than 1,000 AU	1	Poultry		х	\$ 0.04 =	
	2	Other		x	\$ 0.10 =	
1,000 AU or more to less than 3,000 AU	3	Poultry		х	\$ 0.06 =	
1,000 AO OF MOLE TO less than 5,000 AO	4	Other	0	х	\$ 0.15 =	0
	5	Poultry		х	\$ 0.08 =	
3,000 AU or more	6	Other		х	\$ 0.20 =	

Filing Fees Form for Construction Permits

CASHIER'S USE ONLY 0473-542-473A-0431 0474-542-474A-0431 Facility ID # County

Credit fees to: Glenora Feed Yard, L.L.C.

Name of operation: Glenora Feed Yard, L.L.C.

INSTRUCTIONS:

- If the operation is applying for a construction permit enclose a payment for the following:
 Construction application fee \$250.00.
 - (Note: This fee is non-refundable)
- A manure management plan must be submitted with a filing fee.
 Manure management plan filing fee \$250.00 (Note: This fee is non-refundable)
- 3. If this is a change in ownership then indemnity fees must also be paid on the current (existing) total AUC at the appropriate rate on page 7.

Indemnity fee due to ownership change \$

4. Total filing fees: Add the fees paid in items 1, 2 and 3 (above): \$ 500.00

SUMMARY:	
- Manure Storage Indemnity Fee (see previous page) to be deposited in the Manure Storage Indemnity Fee Fund (474)	\$ 0
- Total filing fees (see item 4 on this page) to be deposited in the Animal Agriculture Compliance Fund (473)	\$ 500.00
TOTAL DUE:	\$ 500.00

Make check payable to: lowa Department of Natural Resources or lowa DNR; and send it along with the construction application documents (See Submittal Checklist No. 1 or 2, pages 10-15.) Note: Do not send this fee to the county.

Table 6 567 IAC 65.11(455B)

Minimum separation distances for a new confinement feeding operation or expansion of an operation constructed on or after March 1, 2003

Type of Structure (liquid, semi-	Total Animal Unit Capacity	Residences, Businesse	Residences, Businesses, Churches, Schools			
liquid and dry manure storage)	(AUC) (AU)	Unincorporated Areas	Incorporated Areas	areas		
	500 AU or less	1,875 feet	1,875 feet	1,875 feet		
Anaerobic lagoons and uncovered	501 AU to <1,000 AU	1,875 feet	1,875 feet	1,875 feet		
earthen manure storage basins	1,000 AU to <3,000 AU	2,500 feet	2,500 feet	2,500 feet		
	3,000 AU or more	3,000 feet	3,000 feet	3,000 feet		
	500 AU or less	1,250 feet	1,875 feet	1,875 feet		
Covered earthen manure storage	501 AU to <1,000 AU	1,250 feet	1,875 feet	1,875 feet		
basins	1,000 AU to <3,000 AU	1,875 feet	2,500 feet	2,500 feet		
	3,000 AU or more	2,375 feet	3,000 feet	3,000 feet		
	500 AU or less	None	None	None		
Uncovered formed manure	501 AU to <1,000 AU	1,500 feet	1,875 feet	1,875 feet		
storage structures	1,000 AU to <3,000 AU	2,000 feet	2,500 feet	2,500 feet		
	3,000 AU or more	2,500 feet	3,000 feet	3,000 feet		
	500 AU or less	None	None	None		
Confinement buildings and covered formed manure storage	501 AU to <1,000 AU	1,250 feet	1,875 feet	1,875 feet		
structures	1,000 AU to <3,000 AU	1,875 feet	2,500 feet	2,500 feet		
	3,000 AU or more	2,375 feet	3,000 feet	3,000 feet		
	500 AU or less	None	None	None		
Egg washwatar starage structures	501 AU to <1,000 AU	1,000 feet	1,875 feet	1,875 feet		
Egg washwater storage structures	1,000 AU to <3,000 AU	1,500 feet	2,500 feet	2,500 feet		
	3,000 AU or more	2,000 feet	3,000 feet	3,000 feet		

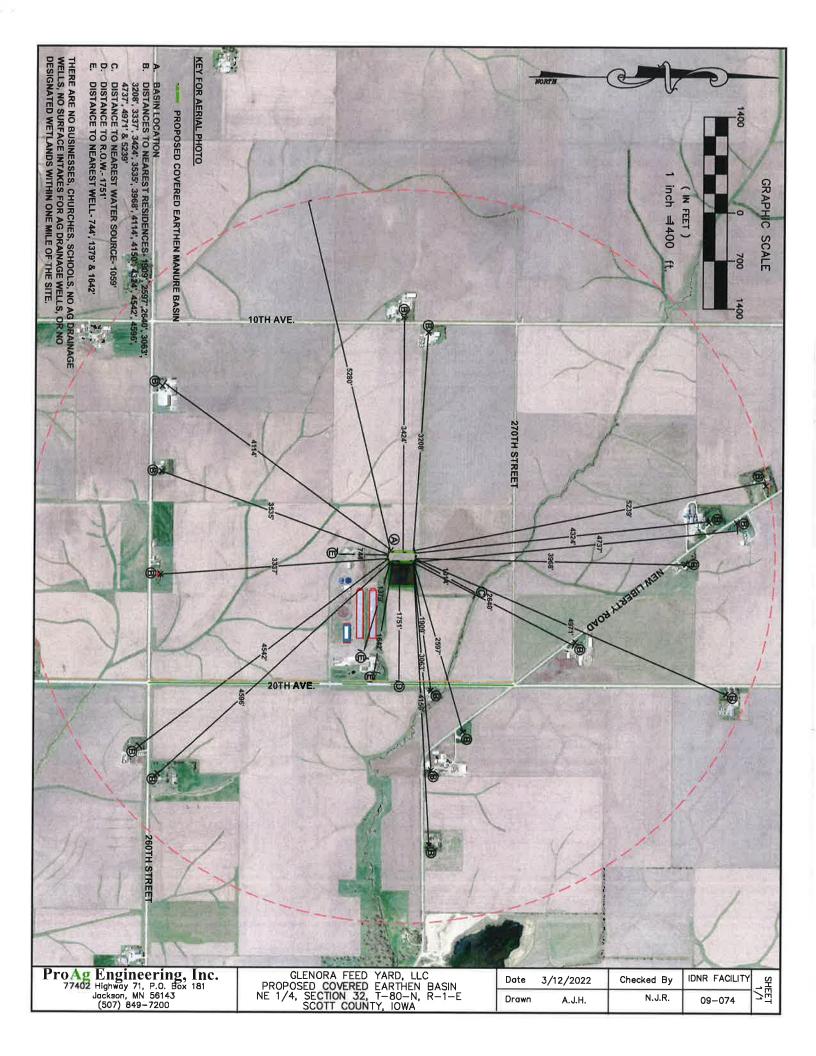
Distances to Wells - Applies to all Confinement Feeding Operations, regardless of animal unit capacity.

Type of Structure	Publi	ic well	Private well	
Type of Structure	Shallow	Deep	Shallow Deep	
Aerobic structure, anaerobic lagoon, earthen manure storage basin, egg washwater storage structure.	1,000 feet	400 feet	400 feet	400 feet
Formed manure storage structure, confinement building	200 feet	100 feet	200 feet	100 feet

Other Distances - Applies to all Confinement Feeding Operations, regardless of animal unit capacity

Surface intakes of an agricultural drainage well or water source other than major (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided)	500 feet*
Wellhead or cistern of an agricultural drainage well or known sinkhole or major water source (Excluding farm ponds, privately owned lakes or when a secondary containment barrier is provided)	1,000 feet
Designated wetlands pursuant to subrule 65.11(4) and Iowa Code section 459.310	2,500 feet
Right-of-way of a thoroughfare maintained by the state or a political subdivision (Exemptions provided in subrule 65.12(2))	100 feet

*200 feet from a water source required for a dry bedded confinement feeding operation structure.



MASTER MATRIX-KEY FOR MILE RADIUS MAP

GLENORA FEED YARD, L.L.C. PROPOSED COVERED MANURE BASIN PROAG PROJECT 09-074

		PRUAG	PROJECT 09-	·0/4	
Ма	trix Item#	Actual Distance	Minimum Required Distance	Additional Distance Abov Minimum	Qualifying ve Matrix Points
				Sco	re/Air/Water/Community
2.	Closest Public Use Area	>than 1 mile	3,000 ft.		30 / 12 // 18
3.	Closest Educational/ Religious/etc.	>than 1 mile	2,500 ft.	<u>.</u>	30 / 12 // 18
4.	Closest Water Source	1,014 ft.	500 ft.	514 ft.	10 / / 10 /
5.	Thoroughfare	1,751 ft.	300 ft.	1,451 ft.	30 / 9 / / 21
6 .	Closest Critical Public Use Area	>than 1 mile	2,500 ft.	20	10 / 4 // 6
8.	Closest Major Water Source	> than 1 mile	1,000 ft.	.	50 / 5 / 25 / 20
9.	Closest Confinement	>than 1 mile	14	-	25 / 7.5 / 7.5 / 10
	Closest High Quality	>than 1 mile	1,000 ft.	 191	30 // 22.5 / 7.5
	Water		1,000 10		007 722.077.0
12.	Covered Manure Storage	÷	-	-	30 / 27.0 / / 3
	Stockpiling	72 	720	2) 2)	30/9/18/3
	Truck Turnaround	12	1		20 / / / 20
	No History		120		30 / / / 30
	Homestead Tax			20	25 / / / 25
22.	Exemption	12	2	1	201 1 20
23.	Family Farm Tax	14	-	i i	25 / / / 25
	Facility Size	<u>~</u>		n E	10 / / / 10
	Methane Digester	14 14	-		10/3/3/4
	No Manure App on		2		10 / / 10 /
	HEL Farmland				
31.	Manure Application to	-	-	3	5/2//3
	Public Use Area				
32.	Manure Application to	11 () () () () () () () () () (-		5/2//3
	Educational/ Religious/etc.				
33.	Manure Application to	<u> </u>	-	÷	10 / / 8 / 2
	Nearest Well				107 7072
35.	Manure Application to	-	÷)	÷.	10 / / 7.5 / 2.5
	HQ Water				
39.	Economic Value	-	-	÷.	10 / / / 10
	Emergency Action Plan	-	(H)		5 / / 2.5 / 2.5
	Closure Plan	-	¥)		5 / / 2.5 / 2.5

Total:

455 / 92.50 / 116.5 / 246

MASTER MATRIX, SUPPORTING STATEMENTS

GLENORA FEED YARD, L.L.C. PROPOSED COVERED MANURE STORAGE PROAG PROJECT 09-074

The following items have been claimed in the "Master Matrix" to accrue total points of 455 points (Total Score = 455, Air = 92.50, Water = 116.5, Community = 246). Master Matrix Criterion Number:

- 1. An additional setback of at least 34 feet will be established beyond the minimum setback of 1,875 feet from any residence, hospital, nursing home, or day care facility.
- 2. No public use areas exist within one mile of the proposed site (see map).
- 3. No schools, churches, or commercial enterprises exist within one mile of the proposed site (see map).
- 4. An additional separation distance of 514 ft. will be achieved above the minimum 500 ft. from water sources to the proposed site (see map).
- 5. An additional separation distance of 1,451 ft. will be achieved above the minimum 300 ft. from the nearest thoroughfare (see map).
- 6. No critical public areas exist within one mile of the proposed farm site (see map).
- 8. No agriculture drainage wells, known sinkholes or major water sources exist within one mile of the proposed site (see map).
- 9. No existing confinement facility exists within 3/4 mile of the proposed site (see map).
- 10. No HQ, HQR, or PWA exists within one mile of the proposed site (see map).
- 12. The proposed earthen basin will be covered.
- 16. The operation has a large concrete pad located near the solids separator. This pad is used for stacking and storing manure removed from the separator. All the runoff from this pad is contained. This pad was constructed to meet I.A.C. 567 65.15(14)b for dry manure storage structures. When the pad is emptied it is inspected for cracks and/or damage with the repairs occurring immediately.
- 19. The farm site has several areas where a semi-trailer truck can turn around easily as seen on the aerial site map. A large gravel area is located on the south and west side of the existing barns for trucks to operate without backing up onto the road. This area is inspected daily and all damage is repaired immediately.
- 20. Glenora Feed Yard, L.L.C. has not been cited with an Administrative Order in the past 5 years.
- 22. Sievers Family Farms, LLC is the closest resident to the proposed structures.
- 23. Sievers Family Farms, LLC qualifies for the Family Farm Tax Credit.
- 24. Sievers Family Farms, LLC houses 2,444 AU in confinement barns.
- 26c.A digester is used to generate energy on the farm and the liquid manure is injected on the same date it is land applied under the requirements of the manure management plan.
- 29. No manure applications will encroach upon highly erodible land.
- 31. No manure applications will encroach upon an additional separation of distance of 200 ft. from any public use areas.
- 32. No manure applications will encroach upon an additional separation of distance of 200 ft. from any school, church, or commercial enterprise.
- 33. No manure applications will encroach upon an additional separation of distance of 50 ft. from any wells.
- 35. No manure applications (injected) will encroach upon an additional separation of distance of 400 ft. from any HQ, HQR. PWA. These features do not exist in this immediately area.
- 39. The proposed structure increase the commercial property tax base in the county.
- 40. Glenora Feed Yard, L.L.C. has prepared an emergency action plan (enclosed).
- 41. Glenora Feed Yard, L.L.C. has prepared a closure plan (enclosed).

APPENDIX C MASTER MATRIX

Proposed Site Characteristics

The following scoring criteria apply to the site of the proposed confinement feeding operation. Mark <u>one</u> score under each criterion selected by the applicant. The proposed site must obtain a minimum overall score of 440 and a score of 53.38 in the "air" subcategory, a score of 67.75 in the "water" subcategory and a score of 101.13 in the "community impacts" subcategory.

- 1. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:
 - * Residence not owned by the owner of the confinement feeding operation,
 - * Hospital,
 - * Nursing home, or
 - * Licensed or registered child care facility.

	Score	Air	Water	Community
250 feet to 500 feet	25	16.25		8.75
501 feet to 750 feet	45	29.25		17.50
751 feet to 1,000 feet	65	42.25		22.75
1,001 feet to 1,250 feet	85	55.25		29.75
1,251 feet or more	100	65.00		35.00

- (A) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
- (B) The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.
- (C) "Licensed child care center" a facility licensed by the department of human services providing child care or preschool services for seven or more children, except when the facility is registered as a child care home.
- (D) "Registered child development homes" child care providers certify that they comply with rules adopted by the department of human services. This process is voluntary for providers caring for five or fewer children and mandatory for providers caring for six or more children.
- (E) A full listing of licensed and registered child care facilities is available at county offices of the department of human services.
- 2. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest public use area.

	Score	Air	Water	Community
250 feet to 500 feet	5	2.00		3.00
501 feet to 750 feet	10	4.00		6.00
751 feet to 1,000 feet	15	6.00		9.00
1,001 feet to 1,250 feet	20	8.00		12.00
1,251 feet to 1,500	25	10.00		15.00
1,501 feet or more	30	12.00		18.00

- (A) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
- (B) "Public use area" a portion of land owned by the United States, the state, or a political subdivision with facilities which attract the public to congregate and remain in the area for significant periods of time. Facilities include, but are not limited to, picnic grounds, campgrounds, cemeteries, lodges, shelter houses, playground equipment, lakes as listed in Table 2 of 567--Chapter 65, and swimming beaches. It does not include a highway, road right-of-way, parking areas, recreational trails or other areas where the public passes through, but does not congregate or remain in the area for significant periods of time.
- 3. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest:
 - * Educational institution,
 - * Religious institution, or

* Commercial enterprise.

_		Score	Air	Water	Community
	250 feet to 500 feet	5	2.00		3.00
	501 feet to 750 feet	10	4.00		6.00
	751 feet to 1,000 feet	15	6.00		9.00
	1,001 feet to 1,250 feet	20	8.00		12.00
	1,251 feet to 1,500	25	10.00		15.00
2	1,501 feet or more	30	12.00		18.00

- (A) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
- (B) The department will award points only for the single building, of the three listed above, closest to the proposed confinement feeding operation.
- (C) "Educational institution" a building in which an organized course of study or training is offered to students enrolled in kindergarten through grade 12 and served by local school districts, accredited or approved nonpublic schools, area educational agencies, community colleges, institutions of higher education under the control of the state board of regents, and accredited independent colleges and universities.
- (D) "Religious institution" a building in which an active congregation is devoted to worship.
- (E) "Commercial enterprise" a building which is used as a part of a business that manufactures goods, delivers services, or sells goods or services, which is customarily and regularly used by the general public during the entire calendar year and which is connected to electric, water, and sewer systems. A commercial enterprise does not include a farm operation.
- **4.** Additional separation distance, above minimum requirement of 500 feet, from proposed confinement structure to the closest water source.

		Score	Air	Water	Community
	250 feet to 500 feet	5		5.00	
~	501 feet to 750 feet	10		10.00	
	751 feet to 1,000 feet	15		15.00	
	1,001 feet to 1,250 feet	20		20.00	
	1,251 feet to 1,500	25		25.00	
	1,501 feet or more	30		30.00	

"Water source" - a lake, river, reservoir, creek, stream, ditch, or other body of water or channel having definite banks and a bed with water flow, except lakes or ponds without an outlet to which only one landowner is riparian.

5. Separation distance of 300 feet or more from the proposed confinement structure to the nearest thoroughfare.

	Score	Air	Water	Community
✓ 300 feet or more	30	9.00		21.00

- (A) "Thoroughfare" a road, street, bridge, or highway open to the public and constructed or maintained by the state or a political subdivision.
- (B) The 300-foot distance includes the 100-foot minimum setback plus additional 200 feet.
- 6. Additional separation distance, above minimum requirements, from proposed confinement structure to the closest critical public area.

	Score	Air	Water	Community
✓ 500 feet or more	10	4.00		6.00

- (A) All critical public areas as defined in 567--65.1(455B), are public use areas, and therefore subject to public use area minimum separation distances.
- (B) Refer to the construction permit application package to determine the animal unit capacity (or animal weight capacity if an expansion) of the proposed confinement feeding operation. Then refer to Table 6 of 567--Chapter 65 to determine minimum required separation distances.
- Proposed confinement structure is at least two times the minimum required separation distance from all private and public water wells.
 Final Total 455 92.50 116.50 246.00

	Score	Air	Water	Community
Two times the minimum separation distance	30		24.00	6.00
Refer to Table 6 of 567. Chapter 65 for minimum required	congration dictance	o to wolls		· · · · · ·

Refer to Table 6 of 567--Chapter 65 for minimum required separation distances to wells.

- **8.** Additional separation distance, above the minimum requirement of 1,000 feet, from proposed confinement structure to the closest:
 - * Agricultural drainage well,
 - * Known sinkhole, or
 - * Major water source.

		Score	Air	Water	Community
	250 feet to 500 feet	5	0.50	2.50	2.00
	501 feet to 750 feet	10	1.00	5.00	4.00
	751 feet to 1,000 feet	15	1.50	7.50	6.00
	1,001 feet to 1,250 feet	20	2.00	10.00	8.00
	1,251 feet to 1,500 feet	25	2.50	12.50	10.00
	1,501 feet to 1,750 feet	30	3.00	15.00	12.00
\square	1,751 feet to 2,000 feet	35	3.50	17.50	14.00
\square	2,001 feet to 2,250 feet	40	4.00	20.00	16.00
	2,251 feet to 2,500 feet	45	4.50	22.50	18.00
$\overline{\mathbf{v}}$	2,501 feet or more	50	5.00	25.00	20.00

(A) The department will award points only for the single item, of the three listed above, that is closest to the proposed confinement feeding operation.

(B) "Agricultural drainage wells" - include surface intakes, cisterns and wellheads of agricultural drainage wells.

- (C) "Major water source" a lake, reservoir, river or stream located within the territorial limits of the state, or any marginal river area adjacent to the state which can support a floating vessel capable of carrying one or more persons during a total of a six-month period in one out of ten years, excluding periods of flooding. Major water sources in the state are listed in Tables 1 and 2 in 567--Chapter 65.
- **9.** Distance between the proposed confinement structure and the nearest confinement facility that has a submitted department manure management plan.

	Score	Air	Water	Community		
 Three-quarter of a mile or more (3,960 feet) 	25	7.50	7.50	10.00		
Confinement facilities include swins, poultry, and drive and back sottle						

Confinement facilities include swine, poultry, and dairy and beef cattle.

- **10.** Separation distance from proposed confinement structure to closest:
 - * High quality (HQ) waters,
 - * High quality resource (HQR) waters, or
 - * Protected water areas (PWA)

is at least two times the minimum required separation distance

	Score	Air	Water	Community
Two times the minimum separation distance	30		22.50	7.50

- (A) The department will award points only for the single item, of the three listed above, closest to the proposed confinement feeding operation.
- (B) HQ waters are identified in 567--Chapter 61.
- (C) HQR waters are identified in 567--Chapter 61.
- (D) A listing of PWAs is available at: http://www.iowadnr.gov/Recreation/CanoeingKayaking/StreamCare/ProtectedWaterAreas.aspx
- **11.** Air quality modeling results demonstrating an annoyance level less than 2 percent of the time for residences within two times the minimum separation distance.

	Score	Air	Water	Community
University of Minnesota OFFSET model results demonstrating an annoyance level less than 2 percent of the time	10	6.00		4.00

(A) OFFSET can be found at http://www.extension.umn.edu/distribution/livestocksystems/DI7680.html. For more information, contact Dr. Larry Jacobson, University of Minnesota, (612) 625-8288, http://www.extension.umn.edu/distribution/livestocksystems/DI7680.html. For more information, contact Dr. Larry Jacobson, University of Minnesota, (612) 625-8288, http://www.extension.umn.edu/distribution/livestocksystems/DI7680.html. For more

(B) A residence that has a signed waiver for the minimum separation distance cannot be included in the model. (C) Only the OFFSET model is acceptable until the department recognizes other air quality models.

12. Liquid manure storage structure is covered.

Score	Air	Water	Community
30	27.00		3.00
	30		

- (A) "Covered" organic or inorganic material, placed upon an animal feeding operation structure used to store manure, which significantly reduces the exchange of gases between the stored manure and the outside air. Organic materials include, but are not limited to, a layer of chopped straw, other crop residue, or a naturally occurring crust on the surface of the stored manure. Inorganic materials include, but are not limited to, wood, steel, aluminum, rubber, plastic, or Styrofoam. The materials shall shield at least 90 percent of the surface area of the stored manure from the outside air. Cover shall include an organic or inorganic material which current scientific research shows reduces detectable odor by at least 75 percent. A formed manure storage structure directly beneath a floor where animals are housed in a confinement feeding operation is deemed to be covered.
- (B) The design, operation and maintenance plan for the manure cover must be in the construction permit application and made a condition in the approved construction permit.
- **13.** Construction permit application contains design, construction, operation and maintenance plan for emergency containment area at manure storage structure pump-out area.

201 - 27 <u>2</u>	Score	Air	Water	Community
Emergency containment	20		18.00	2.00

(A) The emergency containment area must be able to contain at least 5 percent of the total volume capacity of the manure storage structure.

- (B) The emergency containment area must be constructed on soils that are fine-grained and have low permeability.
- (C) If manure is spilled into the emergency containment area, the spill must be reported to the department within six hours of onset or discovery.
- (D) The design, construction, operation and maintenance plan for the emergency containment area must be in the construction permit application and made a condition in the approved construction permit.

14. Installation of a filter(s) designed to reduce odors from confinement building(s) exhaust fan(s).

	Score	Air	Water	Community
Installation of filter(s)	10	8.00		2.00

The design, operation and maintenance plan for the filter(s) must be in the construction permit application and made a condition in the approved construction permit.

15. Utilization of landscaping around confinement structure.

	Score	Air	Water	Community		
Two times the minimum separation distance	20	10.00		10.00		
The design, operation and maintenance plan for the landscaping must be in the construction permit						

application and made a condition in the approved construction permit. The design should contain at least three rows of trees and shrubs, of both fast and slow-growing species that are well suited for the site.

16. Enhancement, above minimum requirements, of structures used in stockpiling and composting activities, such as an impermeable pad and a roof or cover.

Percent and a second seco	Score	Air	Water	Community
 Stockpile and compost facility enhancements 	30	9.00	18.00	3.00

- (A) The design, operation and maintenance plan for the stockpile or compost structure enhancements must be in the construction permit application and made a condition in the approved construction permit.
- (B) The stockpile or compost structures must be located on land adjacent or contiguous to the confinement building.

17. Proposed manure storage structure is formed

	Score	Air	Water	Community
Formed manure storage structure	30		27.00	3.00

(A) "Formed manure storage structure" -a covered or uncovered impoundment used to store manure from an animal feeding operation, which has walls and a floor constructed of concrete, concrete block, wood, steel, or similar materials. Similar materials may include, but are not limited to, plastic, rubber, fiberglass, or other synthetic materials. Materials used in a formed manure storage structure shall have the structural integrity to withstand expected internal and external load pressures.

- (B) The design, operation and maintenance plan for the formed manure storage structure must be in the construction permit application and made a condition in the approved construction permit.
- **18.** Manure storage structure is aerated to meet departmental standards as an aerobic structure, if aeration is not already required by the department.

	Score	Air	Water	Community
Aerated manure storage structure(s)	10	8.00		2.00
	10	0.00		÷

- (A) Aerobic structure an animal feeding operation structure other than an egg wash water storage structure which relies on aerobic bacterial action which is maintained by the utilization of air or oxygen and which includes aeration equipment to digest organic matter. Aeration equipment shall be used and shall be capable of providing oxygen at a rate sufficient to maintain an average of 2 milligrams per liter dissolved oxygen concentration in the upper 30 percent of the depth of manure in the structure at all times.
- (B) The design, operation and maintenance plan for the aeration equipment must be in the construction permit application and made a condition in the approved construction permit.
- **19.** Proposed confinement site has a suitable truck turnaround area so that semitrailers do not have to back into the facility from the road

20.0	20 20.00
_	20

- (A) The design, operation and maintenance plan for the truck turn around area must be in the construction permit application and made a condition in the approved construction permit.
- (B) The turnaround area should be at least 120 feet in diameter and be adequately surfaced for traffic in inclement weather.
- **20.** Construction permit applicant's animal feeding operation environmental and worker protection violation history for the last five years at all facilities in which the applicant has an interest.

	Score	Air	Water	Community
No history of Administrative Orders in last five years	30			30.00

- (A) "Interest" means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly, indirectly through a spouse or dependent child, or both.
- (B) An environmental violation is a final Administrative Order (AO) from the department of natural resources or final court ruling against the construction permit applicant for environmental violations related to an animal feeding operation. A Notice of Violation (NOV) does not constitute a violation.
- **21.** Construction permit applicant waives the right to claim a Pollution Control Tax Exemption for the life of the proposed confinement feeding operation structure.

	Water	Community
Permanent waiver of Pollution Control Tax Exemption 5		5.00

- (A) Waiver of Pollution Control Tax Exemption is limited to the proposed structure(s) in the construction permit application.
- (B) The department and county assessor will maintain a record of this waiver, and it must be in the construction permit application and made a condition in the approved construction permit.
- 22. Construction permit applicant can lawfully claim a Homestead Tax Exemption on the site where the proposed confinement structure is to be constructed OR -

the construction permit applicant is the closest resident to the proposed confinement structure.

	Score	Air	Water	Community	
Site qualifies for Homestead Tax Exemption or permit applicant is closest resident to proposed structure	25			25.00	

Proof of Homestead Tax Exemption is required as part of the construction permit application.

(A) Applicant includes persons who have ownership interests."Interest" - means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly, indirectly through a spouse or

Final Total 455 92.50 116.50 246.00

dependent child, or both.

23. Construction permit applicant can lawfully claim a Family Farm Tax Credit for agricultural land where the proposed confinement feeding operation is to be located pursuant to Iowa Code chapter 425A.

	Score	Air	Water	Community	
Family Farm Tax Credit qualification	25			25.00	

- (A) Applicant includes persons who have ownership interests. "Interest" means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly, indirectly through a spouse or dependent child, or both.
- 24. Facility size.

		Score	Air	Water	Community
	1 to 2,000 animal unit capacity	20			20.00
~	2,001 to 3,000 animal unit capacity	10			10.00
	3,001 animal unit capacity or more	0			0.00

- (A) Refer to the construction permit application package to determine the animal unit capacity of the proposed confinement structure at the completion of construction.
- (B) If the proposed structure is part of an expansion, animal unit capacity (or animal weight capacity) must include all animals confined in adjacent confinement structures.
- (C) Two or more animal feeding operations under common ownership or management are deemed to be a single animal feeding operation if they are adjacent or utilize a common area or system for manure disposal. In addition, for purposes of determining whether two or more confinement feeding operations are adjacent, all of the following must apply:
 - (a) At least one confinement feeding operation structure must be constructed on and after May 21, 1998.
 - (b) A confinement feeding operation structure which is part of one confinement feeding operation is separated by less than a minimum required distance from a confinement feeding operation structure which is part of the other confinement feeding operation. The minimum required distance shall be as follows:
 - (1) 1,250 feet for confinement feeding operations having a combined animal unit capacity of less than 1,000 animal units.
 - (2) 2,500 feet for confinement feeding operations having a combined animal unit capacity of 1,000 animal units or more.
- 25. Construction permit application includes livestock feeding and watering systems that significantly reduce manure volume.

	Score	Air	Water	Community
Wet/dry feeders or other feeding and watering systems that significantly reduce manure volume	25		12.50	12.50
		1.21		A

The design, operation and maintenance plan for the feeding system must be in the construction permit application and made a condition in the approved construction permit.

Proposed Site Operation and Manure Management Practices

The following scoring criteria apply to the operation and manure management characteristics of the proposed confinement feeding operation. Mark <u>one</u> score under each criterion that best reflects the characteristics of the submitted manure management plan.

26. Liquid or dry manure (choose only one subsection from subsections "a" - "e" and mark one

7 .		Score	Air	Water	Community
□ ^{a.}	Bulk dry manure is sold under Iowa Code Chapter 200A and surface-applied	15		15.00	
	Bulk dry manure is sold under lowa Code Chapter 200A and incorporated on the same date it is land-applied	30	12.00	12.00	6.00
D b.	Dry manure is composted and land-applied under the requirements of a department manure management plan	10	4.00	4.00	2.00
	Dry manure is composted and sold so that no manure is applied under the requirements of a department manure	30	12.00	12.00	6.00

455 92.50 116.50 246.00

		management plan				
~	C.	Methane digester is used to generate energy from manure and remaining manure is surface-applied under the requirements of an approved department manure management plan	10	3.00	3.00	4.00
		After methane digestion is complete, manure is injected or incorporated on the same date it is land-applied under the requirements of an approved department manure management plan	30	12.00	12.00	6.00
	d.	Dry manure is completely burned to generate energy and no remaining manure is applied under the requirement of a manure management plan	30	9.00	9.00	12.00
		Some dry manure is burned to generate energy, but remaining manure is land-applied and incorporated on the same date it is land applied	30	12.00	12.00	6.00
	e.	Injection or incorporation of manure on the same date it is land-applied	30	12.00	12.00	6.00

- (A) Choose only ONE line from subsection "a", "b," "c," "d," or "e" above and mark only one score in that subsection.
- (B) The injection or incorporation of manure must be in the construction permit application and made a condition in the approved construction permit.
- (C) If an emergency arises and injection or incorporation is not feasible, prior to land application of manure the applicant must receive a written approval for an emergency waiver from a department field office to surface-apply manure.
- (D) Requirements pertaining to the sale of bulk dry manure under pursuant to Iowa Code chapter 200A must be incorporated into the construction permit application and made a condition of the approved construction permit.
- (E) The design, operation and maintenance plan for utilization of manure as an energy source must be in the construction permit application and made a condition in the approved construction permit.
- (F) The design, operation and maintenance plan for composting facilities must be in the construction permit application and made a condition in the approved construction permit.

27. Land application of manure is based on a two-year crop rotation phosphorus uptake level.

	Score	Air	Water	Community
Two-year phosphorus crop uptake application rate	10		10.00	

(A) Land application of manure cannot exceed phosphorus crop usage levels for a two-year crop rotation cycle.

- (B) The phosphorus uptake application rates must be in the construction permit application and made a condition in the approved construction permit.
- 28. Land application of manure to farmland that has USDA Natural Resources Conservation Service (NRCS) approved buffer strips contiguous to all water sources traversing or adjacent to the fields listed in the manure management plan.

	Score	Air	Water	Community
Manure application on farmland with buffer strips	10		8.00	2.00

(A) The department may request NRCS maintenance agreements to ensure proper design, installation and maintenance of filter strips. If a filter strip is present but not designed by NRCS, it must meet NRCS standard specifications.

(B) The application field does not need to be owned by the confinement facility owner to receive points.

- (C) On current and future manure management plans, the requirement for buffer strips on all land application areas must be in the construction permit application and made a condition in the approved construction permit.
- **29.** Land application of manure does not occur on highly erodible land (HEL), as classified by the USDA NRCS.
 - ScoreAirWaterCommunityImage: No manure application on HEL farmland1010.0010.00Manure application on non-HEL farmland must be in the construction permit application and made a condition in the approved construction permit.1010.00

455 92.50 116.50 246.00

- **30.** Additional separation distance, above minimum requirements (0 or 750 feet, see below), for the land application of manure to the closest:
 - * Residence not owned by the owner of the confinement feeding operation,
 - * Hospital,
 - * Nursing home, or
 - * Licensed or registered child care facility.

	Score	Air	Water	Community
Additional separation distance of 200 feet	5	3.25		1.75
Additional separation distance of 500 feet	10	6.50		3.50

- (A) The department will award points only for the single building, of the four listed above, closest to the proposed confinement feeding operation.
- (B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.
- (C) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
- (D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
- (E) "Licensed child care center" a facility licensed by the department of human services providing child care or preschool services for seven or more children, except when the facility is registered as a child care home.
- (F) "Registered child development homes" child care providers certify that they comply with rules adopted by the department of human services. This process is voluntary for providers caring for five or fewer children and mandatory for providers caring for six or more children.
- (G) A full listing of licensed and registered child care facilities is available at county offices of the Department of Human Services
- **31.** Additional separation distance, above minimum requirements (0 or 750 feet, see below), for land application of manure to closest public use area.

		Score	Air	Water	Community
Additional	separation distance of 200 feet	5	2.00		3.00

- (A) "Public use area" a portion of land owned by the United States, the state, or a political subdivision with facilities which attract the public to congregate and remain in the area for significant periods of time. Facilities include, but are not limited to, picnic grounds, campgrounds, cemeteries, lodges, shelter houses, playground equipment, lakes as listed in Table 2 in 567--Chapter 65, and swimming beaches. It does not include a highway, road right-of-way, parking areas, recreational trails or other areas where the public passes through, but does not congregate or remain in the area for significant periods of time.
- (B) Minimum separation distance for land application of manure injected or incorporated on the same date as application: 0 feet.
- (C) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
- (D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
- **32.** Additional separation distance, above minimum requirements (0 or 750 feet, see below), for the land application of manure to the closest:
 - * Educational institution,
 - * Religious institution, or
 - * Commercial enterprise.

	Score	Air	Water	Community
Additional separation distance of 200 feet	5	2.00		3.00

- (A) Minimum separation distance for land application of manure broadcast on soil surface: 750 feet.
- (B) Minimum separation distance for land application of manure injected or incorporated on same date as application: 0 feet.
- (C) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
- (D) "Educational institution" a building in which an organized course of study or training is offered to students enrolled in kindergarten through grade 12 and served by local school districts, accredited or approved nonpublic schools, area educational agencies, community colleges, institutions of higher education under the control of the state board of regents, and accredited independent colleges and universities.
- (E) "Religious institution" a building in which an active congregation is devoted to worship.
- (F) "Commercial enterprise" a building which is used as a part of a business that manufactures goods, delivers

Final Total

455

92.50 116.50 246.00

services, or sells goods or services, which is customarily and regularly used by the general public during the entire calendar year and which is connected to electric, water, and sewer systems. A commercial enterprise does not include a farm operation.

33. Additional separation distance of 50 feet, above minimum requirements (0 or 200 feet, see below), for the land application of manure to the closest private drinking water well or public drinking water well -OR

well is properly closed under supervision of county health officials.

	Score	Air	Water	Community	
Additional separation distance of 50 feet or well is properly closed	10		8.00	2.00	

- (A) Minimum separation distance for land application of manure injected or incorporated on the same date as application or 50-foot vegetation buffer exists around well and manure is not applied to the buffer: 0 feet.
- (B) Minimum separation distance for land application of manure broadcast on soil surface: 200 feet.
- (C) If applicant chooses to close the well; the well closure must be incorporated into the construction permit application and made a condition in the approved construction permit.
- 34. Additional separation distance, above minimum requirements, for the land application of manure to the closest:
 - Agricultural drainage well,
 - * Known sinkhole.
 - * Major water source, or
 - * Water source

	Score	Air	Water	Community
Additional separation distance of 200 feet	5	0.50	2.50	2.00
Additional separation distance of 400 feet	10	1.00	5.00	4.00

- (A) "Agricultural drainage wells" include surface intakes, cisterns and wellheads of agricultural drainage wells.
- (B) "Major water source" a lake, reservoir, river or stream located within the territorial limits of the state, or any marginal river area adjacent to the state, which can support a floating vessel capable of carrying one or more persons during a total of a six-month period in one out of ten years, excluding periods of flooding. Major water sources in the state are listed in Tables 1 and 2 in 567--Chapter 65.
- (C) "Water source" a lake, river, reservoir, creek, stream, ditch, or other body of water or channel having definite banks and a bed with water flow, except lakes or ponds without an outlet to which only one landowner is riparian.
- (D) The additional separation distances must be in the construction permit application and made a condition in the approved construction permit.
- 35. Additional separation distance above minimum requirements, for the land application of manure, to the closest:
 - * High quality (HQ) water,
 - * High quality resource (HQR) water, or
 - * Protected water area (PWA).

	Score	Air	Water	Community
Additional separation distance of 200 feet	5		3.75	1.25
✓ Additional separation distance of 400 feet	10		7.50	2.50

(A) HQ waters are identified in 567--Chapter 61.

(B) HQR waters are identified in 567--Chapter 61.

(C) A listing of PWAs is available at:

http://www.iowadnr.gov/Recreation/CanoeingKayaking/StreamCare/ProtectedWaterAreas.aspx.

36. Demonstrated community support.

	Score	Air	Water	Community	
Written approval of 100% of the property owners within a one mile radius	20			20.00	

37. Worker safety and protection plan is submitted with the construction permit application.

		Score	Air	Water	Community
Submission of worker safety and prote	ection plan	10			10.00
	Final Total	455	92.50	116.50	246.00

- (A) The worker safety and protection plan must be in the construction permit application and made a condition in the approved construction permit.
- (B) The worker safety and protection plan and subsequent records must be kept on site with the manure management plan records.
- **38.** Applicant signs a waiver of confidentiality allowing public to view confidential manure management plan land application records

	Score	Air	vvater	
Manure management plan confidentiality waiver	5			5.00
The waiver of confidentiality must be in the construction permit application and made a condition in the				
approved construction permit. The applicant may limit public inspec	tion to rea	sonable ti	mes and p	laces.

39. Added economic value based on quality job development (number of full time equivalent (FTE) positions), and salary equal to or above Iowa department of workforce development median (45-2093) -OR-

the proposed structure increases commercial property tax base in the county.

	Score	Air	Water	Community
 Economic value to local community 	10			10.00

The lowa Department of Workforce Development regional profiles are available at http://www.iowaworkforce.org/centers/regionalsites.htm. Select the appropriate region and then select "Regional Profile."

40. Construction permit application contains an emergency action plan.

	Score	Air	Water	Community
Emergency action plan	5		2.50	2.50

- (A) Iowa State University Extension publication PM 1859 lists the components of an emergency action plan. The emergency action plan submitted should parallel the components listed in the publication.
- (B) The posting and implementation of an emergency action plan must be in the construction permit application and made a condition in the approved construction permit.
- (C) The emergency action plan and subsequent records must be kept on site with the manure management plan records.

41. Construction permit application contains a closure plan.

	Score	Air	Water	Community
Closure Plan	5		2.50	2.50

(A) The closure plan must be in the construction permit application and made a condition in the approved construction permit.

(B) The closure plan must be kept on site with the manure management plan records.

42. Adoption and implementation of an environmental management system (EMS) recognized by the department.

	Score	Air	Water	Community
EMS	15	4.50	4.50	6.00

(A) The EMS must be in the construction permit application and made a condition in the approved construction permit.

- (B) The EMS must be recognized by the department as an acceptable EMS for use with confinement operations.
- 43. Adoption and implementation of NRCS approved Comprehensive Nutrient Management Plan (CNMP).

	Score	Air	Water	Community
CNMP	10	3.00	3.00	4.00
The implementation and continuation of a ChildD must be in the	1 1		11 11	

The implementation and continuation of a CNMP must be in the construction permit application and made a condition in the approved construction permit.

44. Groundwater monitoring wells installed near manure storage structure), and applicant agrees to provide data to the department.

Score	Air	Water	Community
15		10.50	4.50
	Score 15	Score Air 15	15 10.50

(A) Monitoring well location, sampling and data submission must meet department requirements.

(B) The design, operation and maintenance plan for the groundwater monitoring wells, and data transfer to the

department, must be in the construction permit application and made a condition in the approved construction permit.

		Total Score	Air	Water	Community	
		880	213.50	271.00	404.50	
Score to pass		440	53.38	67.75	101.13	
	Final Tota	455	92.50	116.50	246.00	

EMERGENCY RESPONSE PLAN

Glenora Feed Yard, LLC. is located in Scott County in southeastern Iowa. The cattle confinement operation has a capacity 2,444 of head of finishing cattle with an average weight of 900 lbs. The legal description of the livestock facility is as follows: NE ¼ of Section 32, T-80-N, R-1-E, Scott County, Iowa.

The following protocol will be used for any causes such as power failure, storms or extended wet periods, accidents, equipment failure, or failure of components of the livestock waste control facility.

- 1. Implement containment steps so that waters of the State of Iowa are not contaminated.
- 2. Assess the extent of the emergency and determine the amount of help needed.
- 3. Contact Bryan Sievers (cell phone 569-340-6541), the farm's emergency team leader and facility owner.
- 4. The following information will be given to the farm's emergency team leader:
 - ➢ Your name
 - Farm identification
 - Description of the emergency
 - Estimate of the amount, area covered and distance traveled from the site
 - Has manure reached waters of the State?
 - > Is there any obvious damage: employee injury, fish kill or property damage?
 - > What is currently in progress to contain the situation?
- 5. Available equipment/ supplies for responding to an emergency: McCleary Excavating Co., Inc. 563-381-2880, Eller Construction Co, Inc. 563-285-5155, Schwarz Excavating 563-785-6752.
- 6. The Iowa Department of Natural Resources (phone 515-281-8694) will be notified of a discharge or spill within 6 hours of the event and a written report to the department within seven days of the discharge or spill. If any employee is injured, medical personnel (Rescue Unit dial 911) will be notified as quickly as possible. Scott County Sheriff (563-326-8628), or the Bennett Police Department office (563-886-2121) will be notified if appropriate.
- If a spill should occur on a state or county roadway, the spill will be contained so it does not cause an accident then the Iowa Department of Transportation (515-239-1101) will be notified if on a state highway, or if a spill should occur on a county road then Scott County Engineer will be notified (563-326-8640).

LIVESTOCK WASTE CONTROL FACILITY CLOSURE PLAN Glenora Feed Yard, LLC.

Glenora Feed Yard, LLC. is located in Scott County in southeastern Iowa. The proposed cattle confinement operation will have a capacity of 2,444 head of finishing cattle with an average weight of 900 lbs. and the land available for manure application is listed in the Manure Management Plan. The legal description of the livestock facility is as follows: NE ¼ of Section 32 T-80-N R-1-E Scott County, Iowa.

When the decision is made to abandon the operation, the Iowa Department of Natural Resources (319-653-2135) will be notified a minimum of seven working days prior to this plan being implemented. The notice will outline the proposed schedule of events and a time estimate to complete the activities.

The confinement buildings, formed concrete, and earthen manure storage structures will remain intact and will have the surface drainage water diverted from them.

The confinement operation will have the option of leveling and cropping the site after the effluent and sediment/sludge have been removed. The manure storage facilities will have drainage water diverted from it, and the sediment will be removed as described in the manure management plan. Prior to application at a minimum the sludge/sediment and effluent will be analyzed for the following nutrients: organic nitrogen, nitrate-N, total nitrogen (TKN), phosphorus, and potassium. The sludge/sediment contained within the manure storage facilities will be removed using front-end loaders and applied at agronomic rates with pull type manure spreaders. The effluent contained within the manure storage facilities will be removed using a pull type liquid manure applicator, high volume gun, umbilical cord, center pivot, or combination of these methods.

2/25/22, 11:21 AM

AFO Siting

Potential karst

5 %

Distances

> one mile > one mile

1,335 ft

-90.860726 41.692558

Ŷ



Map layers Legend

AFO Siting Data

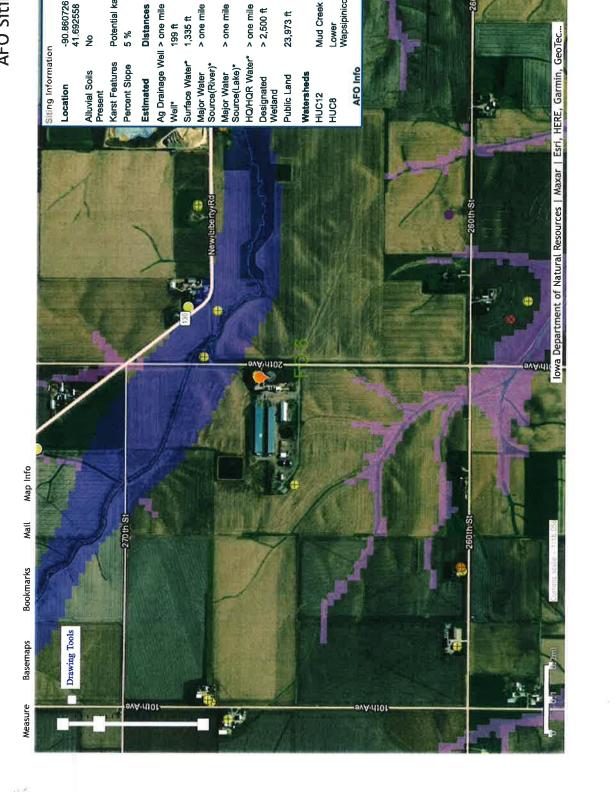
Animal Feeding Operation

- 🔒 Active, Confined/Open
 - Active, Confinement
 - Active, Open Feedlot
- Inactive 6
- **Designated Wetland Buffer** Wetland Buffer(2500Ft)

DNR Field Office

Borders and Boundaries

DNR Field Offices



Lower Wapsipinicon

Mud Creek

> 2,500 ft 23,973 ft SOIL S



Map layers Legend

AFO Siting Data

Sinkhole or Potential Karst

Sinkhole w/ 1000 ft radius

Karst and Potential Karst

Animal Feeding Operation

Active, Confined/Open Active, Confinement Active, Open Feedlot Inactive

Designated Wetland Buffer

Wetland Buffer(2500Ft)





proageng.com

From:	"Hruby, Claire [DNR]" <claire.hruby@dnr.iowa.gov></claire.hruby@dnr.iowa.gov>
To:	"'proageng.com" <nic@proageng.com></nic@proageng.com>
Cc:	"Bryan & Lisa Sievers" <4isu@fbcom-wb.net>; "Ostwinkle, Dennis [DNR]"
	<dennis.ostwinkle@dnr.iowa.gov></dennis.ostwinkle@dnr.iowa.gov>
Sent:	Saturday, February 20, 2010 12:41 PM
Attach:	Site1-25-10.pdf
Subject:	RE: Karst Determination for proposed cattle confinement and digester - Scott County

Determination# 2022

Location: NE 1/4, Section 32, T80N, R1E, Scott County

Nic,

I agree with your assessment of the site. This site is not in karst. Bedrock is likely to be well over 25 feet below the facility. In addition, there are no mapped sinkholes or other karst features in the area, indicating that the bedrock is not highly soluble. This determination is only valid for the area that you have indicated on the attached plans. Please include this determination with any materials you submit for construction approval. I am excited about the possibility of a digester. Good luck with your project. -Claire

Claire Hruby, Geologist

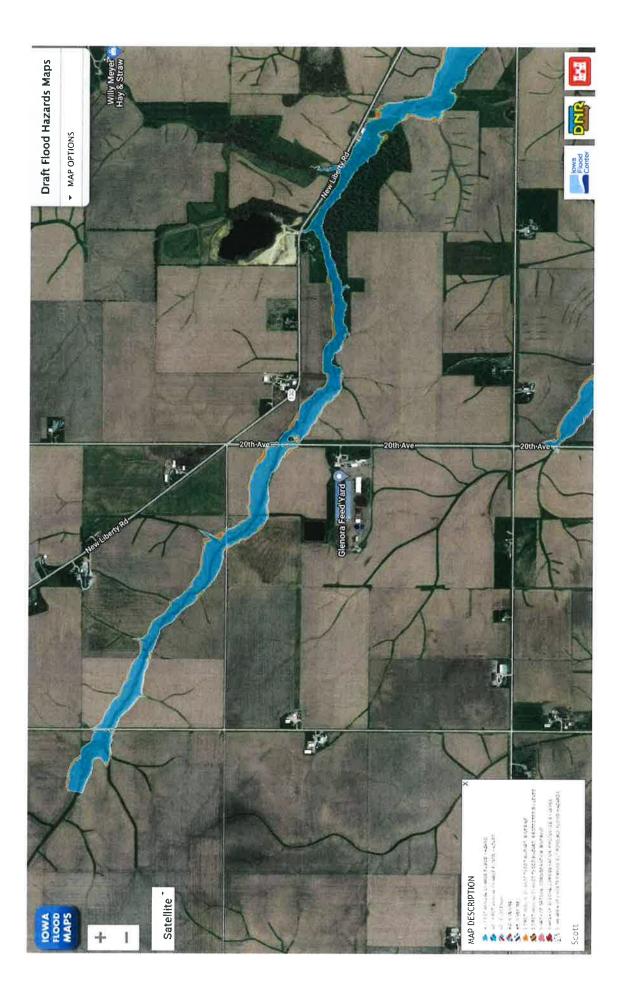
IDNR - Wallace Building 502 E. 9th St. Des Moines, IA 50319 ph: 515-242-6848 claire.hruby@dnr.iowa.gov

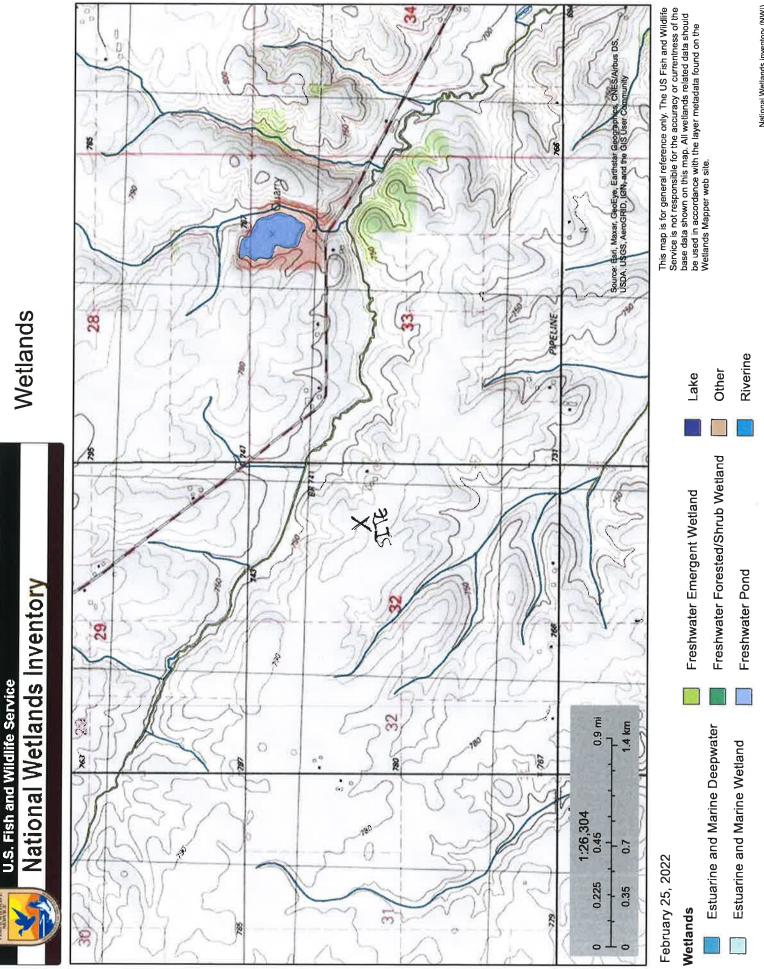
From: proageng.com [mailto:nic@proageng.com]
Sent: Friday, February 19, 2010 3:58 PM
To: Hruby, Claire [DNR]
Cc: Bryan & Lisa Sievers
Subject: Karst Determination

Hi Claire,

Attached is the preliminary design and layout of a proposed cattle feedlot and digester located in the NE 1/4, Section 32, T80N, R1E, Scott County, Iowa. I mentioned this project to you earlier and now we need you to verify the site is not in karst. I looked at the area well logs and it appears that the depth to bedrock is approximately 50 feet. It was shallower than that in the lower elevations but we are located on top of the hill and the residence with a well located to the south (IDNR Well #53523) is also located on the hill and the depth to bedrock was 50'. The lowest proposed elevation would be the bottom of the proposed concrete circular tank that would hold the liquid waste from the digester and that elevation is 770. Please review the site and let us know if the site is considered karst and if updated concrete standards are required. Feel free to contact me anytime with any other questions or concerns.

Thanks, Nic Rowe, P.E. ProAg Engineering, Inc. 507 Milwaukee Street P.O. Box 992 Lakefield, MN 56150 507-841-3269 cell 507-662-5538 office 507-662-5105 fax nic@proageng.com





National Wetlands Inventory (NWI) This page was produced by the NWI mapper

OPERATION AND MAINTENANCE MANUAL GLENORA FEED YARD, LLC SCOTT COUNTY, IOWA ProAg Project No: 09-074

INTRODUCTION

This facility is an existing 2,444 head cattle confinement operation. The existing site consists of two confinement barns, two concrete reception pits, a concrete circular manure storage tank, a solids separator, concrete storage bunkers, two concrete digester tanks and one earthen manure storage basin. The site is proposing to construct a covered earthen digester. There are no other changes proposed to the site.

OVERALL MANURE HANDLING OPERATION

Each confinement barn holds 1,222 head and is 640' x 90' with a 12' wide slatted floor and 2' deep pits. All of the shallow pits are cleaned daily with underslat cable manure scrapers that push the manure into concrete reception pits (54' x 12' x 8' deep). A pump in each concrete reception pit supplies the anaerobic digesters. From the digesters the waste will be transferred to the concrete circular tank which will be heated and covered and turned into an additional digester tank. Effluent from this third digester tank will then be pumped to the proposed covered earthen digester. Liquid effluent will flow off the top of the covered earthen digester will be pumped to the solids separator. The proposed covered earthen digester is located in the same location as the second earthen manure storage basin was previously permitted. The proposed covered earthen digester doesn't provide any additional storage volume to the site as it will be remain full at all times.

MASTER MATRIX

The Master Matrix was completed for the proposed confinement operation and it meets the minimum score requirements. Criteria numbers 16 and 19 were scored and they need design, operation and maintenance manuals. Number 16 deals with compost or stockpile enhancements. A large concrete pad exists near the manure separator. This pad is used for stacking and storing dry manure after it has passed through the solids separator. This pad was constructed to meet I.A.C. 567 65.15(14)b for dry manure storage structures. When the pad is emptied it is inspected for cracks and/or damage with the repairs occurring immediately. Number 19 deals with a truck turnaround. A large gravel area is located south and east of the confinement barns for trucks to operate without backing up onto the road. This area is inspected daily and all damage is repaired immediately. The enclosed Master Matrix has been checked in the appropriate boxes. All four categories have the minimum number of points required. Our figures show the following totals:

TOTAL SCORE = 455 AIR = 92.50 WATER = 116.50 COMMUNITY = 246

SEMI-ANNUAL INSPECTION OF MANURE STORAGE PITS AND HANDLING SYSTEMS

Establish a time each spring and fall for a thorough inspection of the manure storage and handling systems. WARNING: DO NOT ENTER COVERED MANURE PITS & TANKS.

All concrete storage pits and reception pits shall be inspected to evaluate the outside of structures for cracks and deterioration of concrete. Any cracks showing discharge of liquid manure shall be inspected by an engineer and repairs done as prescribed by the engineer.

Maintain the following in proper working order:

- Pumpout covers and grates to prevent accidental entry into a manure storage structure.
- Warning signs at entry points to pits and tanks.
- Rainwater diversions to direct 'clean' water away and 'dirty' water into storage facilities.
- Sewers and manure pumping systems.
- Perimeter tile, sump pumps, sampling ports and rodent guards at outlets.

INSPECT PERIMETER TILE AT LEAST ONE WEEK BEFORE EMPTYING STORAGE

All below ground waste storage structures require perimeter tile to relieve the hydrostatic pressures which would otherwise damage the sides of the concrete tanks and manure storage pits under barns. There is a serious problem if the water level in the sump or inspection port is above the pit floor.

It is very important that the ground water level be lowered prior to emptying the manure storage pit. It may take a week or more for the system to lower the ground water pressure once the problem has been corrected.

CHANGE IN TILE WATER COLOR OR ODOR

If visual observation of the tile water indicates a change in color or odor, then a more urgent response is necessary. A change in color or odor may be caused by either soil and/or manure water. If this should occur, immediately stop all discharge to field tile. Notify the IDNR or Engineer immediately.

Install a sump pump and discharge the tile water onto a vegetated filter strip area. If necessary, plug the line going to field tile with bentonite 'chips'. Bentonite chips may be obtained from your well driller.

SCHEDULED MAINTENANCE

INTRODUCTION FOR CONFINEMENT

This portion of the manual will provide guidance to employees as to what areas of the sit need regularly scheduled inspection and maintenance. This manual deals primarily with manure collection, transporting, and hauling.

DAILY

- 1. Verify all discharge pipes between storage structures are unobstructed
- 2. Inspect lift station pumps, piping, and controls in each structure
- 3. Visually inspect storage structures for levels as compared to prior day.
- 4. Check water lines and waterers for any signs of leakage

<u>WEEKLY</u>

- 1. Verify all exterior valve boxes are visible and fence post markers are adjacent to valve boxes.
- 2. Walk pipe routes and inspect for settling along pipe route and evidence of pipe breakage.
- 3. Inspect all pump intake manholes. Inspect pumps, floats, piping and vacuum valve for tightness. Verify isolation valve to vacuum valve is open.
- 4. Inspect and record liquid levels in each storage structure.

MONTHLY

- 1. Cycle all buried gate valves (open and close at least once).
- 2. Inspect the basin dikes both interior and exterior for erosion, rodent holes and visible leakage. Eroded areas should be filled in with black dirt, reseeded and mulched. Rodent holes shall be filled with granular bentonite and rodent traps used. Visible leakage should be reported to the Engineer to determine course of action and to local DNR office if manure is a potential immediate hazard.
- 3. Dike interior and exterior should be sprayed for weeds and any bare spots seeded and fertilized with grass seed mixture.
- 4. Check tile outlets for rodent guards and obstructions.
- 5. Manually run pump and check floats

AFTER SIGNIFICANT RAINFALL

- 1. Check general site drainage and condition of rock surfacing on roadways.
- 2. Inspect culverts for siltation.
- 3. Inspect tile intakes and culverts for debris.
- 4. Inspect feed area and open lots for proper drainage and containment.

AFTER PUMPING OF BASIN

- 1. Check earthen basin corners (riprap) for erosion and place additional riprap as required.
- 2. Check concrete pads on interior dike slopes for integrity.

- 3. Check dike inner slopes for agitator wheel ruts and repair by filling in with black dirt.
- 4. Upon emptying, inspect the sludge and sediment accumulation levels in the basins.
- 5. Record basin liquid levels after land application.
- 6. Check dike and bottom for erosion. Contact the Engineer if visible erosion has occurred and fill with granular bentonite until permanent measures can be made.

DRAINAGE TILE LINE CERTIFICATION

"I hereby certify that I am a licensed Engineer in the State of Iowa. To the best of my knowledge, information and belief, the construction of the animal feeding operation structures proposed by:

> GLENORA FEEDYARD, L.L.C. NE1/4, SECTION 32, T-80-N, R-1-E SCOTT COUNTY, IOWA

will not impede the performance of established drainage tile lines and if construction disturbs drainage tile lines, I will recommend the necessary measures to be taken to reestablish drainage and, upon completion of construction, file a statement that those measures were taken to reestablish drainage."

NICHOLAUS J. ROWE, P.E.

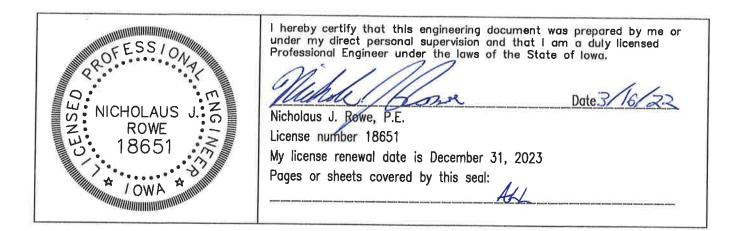
Date: 3/16/22

Iowa Registration No. 18651

TECHNICIAL SPECIFICATIONS

GLENORA FEED YARD, LLC. PROPOSED COVERED MANURE STORAGE BASIN NE¹/₄, Section 32, T80N, R1E SCOTT COUNTY, IOWA

ProAg Project No. 09-074 March 2022



ENGINEER: ProAg Engineering, Inc.

77402 U.S. Highway 71 P.O. Box 181 Jackson, MN 56143 Phone: 507-849-7200 Fax: 507-849-7203

Table of Contents

SECTION DESCRIPTION 200 Stormwater Pollution Prevention Plan 210 **Erosion Protection** 230 Seeding & Fertilizing 300 Excavation & Borrow 320 Trenching, Backfilling & Compacting 330 Utility Conflict Repairs Cast-In-Place Concrete 400 500 Subdrains 510 Perimeter Tile System Wastewater Pipelines 610

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SECTION 200

I. GENERAL

A. <u>Construction Sequence and Best Management Practices (BMP's)</u>

1. The construction site shall be planted to grass (or cover crop) prior to commencement of construction. See Grass Seeding Guidelines.

2. Areas not to be disturbed during construction shall be staked and marked. Considerable rain water and sediment can be trapped on areas planted to grass and not compacted by construction traffic.

3. Install silt fence as shown on the site plan or according to Engineer.

4. All drive entrances shall be protected with rock. Install road culvert(s) as per highway department specifications.

5. Build a berm to prevent field water from entering the construction site. Make berm 18-24" high with 3:1 side slopes. Use loose top soil from the barn area. A berm is an alternative to using silt fence. The loose soil will absorb a lot of water. Construct the berm on the contour with no channel on the up-hill side of the berm.

6. Temporary stockpiles shall have silt fence or other effective sediment controls and cannot be placed in stormwater conveyances, ditches or grass waterways.

7. Dewatering of pits and basins shall be done in a manner that does not cause nuisance conditions or discharge onto down-slope property. Rain and ground water in pit excavations shall not be allowed to flow direct into open tile, unless the tile inlet has silt fence or other protection or the perimeter tile is installed and covered with pea rock or crushed rock.

8. After backfilling and final grading is done, those areas shall be planted to grass. Slopes steeper than 5:1 shall be mulched. All seeding and mulching operations shall commence within 1 week after completion of each portion of the construction or as soon as soil conditions permit. See Grass Seeding Guidelines.

9. After berms are removed and backfill around barns is re-graded (the following spring) those areas shall be re-seeded to grass.

10. Final stabilization is achieved when soils have been stabilized by a uniform perennial vegetative cover over at least 70% of the pervious area, and all drainage ditches and grass waterways have been stabilized, then the silt fence may be removed.

11. The Owner shall keep the plans and records on file for a minimum of six (6) years.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SECTION 200

B. Maintenance of BMP's

1. Owner shall inspect all BMP's weekly and within 24 hours after each rain event of 1/2" or more in 24 hours.

2. Silt shall be removed from behind silt fences within 24 hours of when the depth reaches 1/3 the height of the fence.

3. Mud and crushed rock are tracked onto public roads, it shall be removed within 24-hours.

4. If sediment escapes the site, off-site accumulations must be removed in a manner and frequency sufficient to minimize off-site impacts.

C. Assignment of Responsibilities for Execution of the SWPPP

1. Owner shall be responsible for execution, inspection, record keeping and updating The SWPPP as required.

2. Owner shall inspect all BMP's <u>weekly</u> and within <u>24 hours after each rain event</u> of 1/2" or more in 24 hours and supervise proper maintenance of erosion and sediment control practices.

3. Earthwork Contractor shall be responsible for implement, manage and maintain both temporary and permanent erosion and sediment control BMP's (except seeding) until final grading has been completed on site.

4. Owner shall be responsible for seedbed preparation, planting, and mulching operations prescribed by the SWPPP.

5. Changes to the SWPPP shall be approved and recorded by Owner prior to implementation.

D. Grass Seeding Guidelines

1. All in-place topsoil shall be salvaged to the maximum extent possible. It is ideal to place 6 inches of top soil in areas to be seeded. Harrowing before and packing with roller after planting will help germination, make the ground smoother and easier to mow.

2. Seeding mixture and rates are recommendations based on DOT specs. Fertilizer is important for quick growth. Mixtures can be mowed.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SECTION 200

a. Temporary seeding: Fertilizer 10-10-20 at 200 lbs/acre. Oats at 100 lbs/ac for spring/summer seeding of areas that will be left undisturbed for 21 days or more.

b. Winter wheat at 100 lbs/ac for fall seeding of areas that will be disturbed again in the spring, such as backfill around barns.

Turf and agricultural grasses: Fertilizer 20-10-20 at 350 lbs/acre.

General Roadside mix.			
Brome grass, smooth		9.8 lbs/ac	14.0%
Bluegrass, Kentucky "Certified	l Park"	20.3	29.0
Bluegrass, Canada		9.8	14.0
Switch grass		2.1	3.0
Wheat-grass, slender		2.8	4.0
Rye-grass, perennial		14.7	21.0
Timothy		2.1	3.0
Redtop		2.1	3.0
Alfalfa, creeping		4.2	6.0
White clover		2.1	3.0
Total	70	lb/ac	
Agricultural Roadside mix.			
Alfalfa, creeping	15 lb/ac	30.0%	
Brome grass, smooth	10	20.0	
Redtop	3	6.0	
Rye-grass, perennial	15	30.0	
	10	30.0	
Switch grass	2	4.0	
Switch grass Timothy	2 2		
Switch grass	2	4.0	

I. GENERAL

A. <u>SCOPE</u>

1. This section covers the requirements, materials, installation and maintenance of erosion control features.

2. Furnish, install and maintain all erosion control improvements as shown, specified or required by governing agencies.

3. Perform work in accordance with best present day installation and construction practices.

B. APPROVALS AND PERMITS

1. Owner/Engineer shall obtain the following erosion control permits as required.

a. Joint 401 Construction Permit from the Iowa Department of Natural Resources (IDNR) and US Army Corps of Engineers.

b. NPDES Storm Water Discharge Permit administered by IDNR.

2. Contractor shall be responsible for applying for, paying all fees and obtaining any other erosion control permits including but not limited to:

- a. Local silt screen or erosion control ordinance.
- b. General building permits.
- c. Any additional permits required.
- 3. Contractor shall notify Engineer and/or governing agency when erosion control measures are in place prior to commencing any land disturbing activities.

II. PRODUCTS

- A. Silt Screen: Synthetic Monofilament Woven material, 36 inches tall meeting IDOT 4196.01-A.
- B. Fence Post: Steel "T" posts with lugs to prevent vertical slipping. Length to be minimum six feet.
- C. Jute Mesh: Non-toxic, single jute, plain weave meeting IDOT 4169.10-A.
- D. Wood Excelsior Mat: Interlocking wood fiber or straw with plastic netting on one side. Matting shall meet IDOT 4169.10-C.
- E. Manufactured Surface Intake Covers: Fabric covers with rigid frame as manufactured by Silt Saver, Inc. or equal.
- F. Manufactured Curb Intake Filter: Tube form as manufactured by Mirafi Geosynthetic or Gutterbuddy by ACF Environmental.

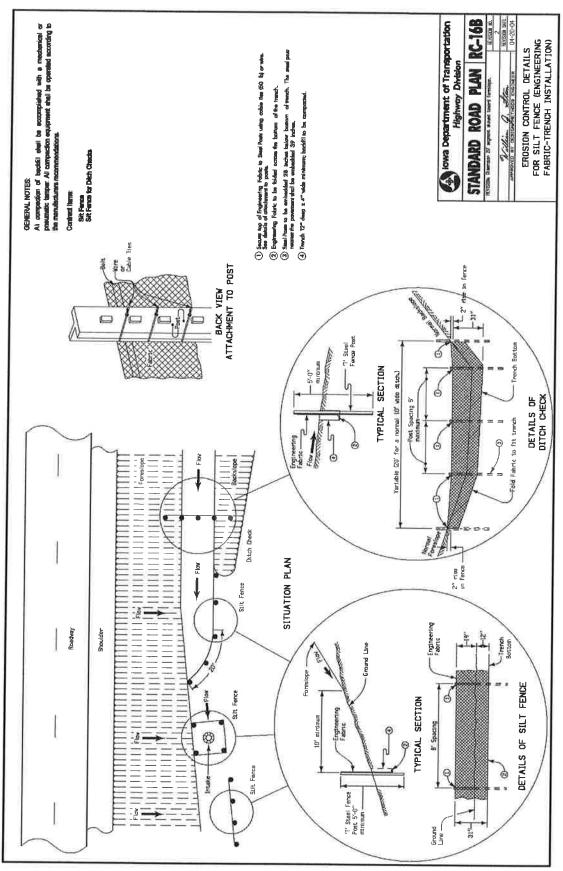
- G. Compost: Controlled production compost consisting of yard trimmings, sewage sludge, animal manure or food processing residue. Compost shall meet the following AASHTO specifications:
 - 1) Carbon to Nitrogen Ratio minimum 30:1
 - 2) Organic Matter 30-60%
 - 3) Moisture Content 40% Target
 - 4) Particle Size 1/4" 5/8" for turf area, 11/4" for mulch
 - 5) pH 5.0 8.5
 - 6) Soluble Salts maximum 4 mmhos/cm
 - 7) Heavy Metals -- as regulated by US EPA, Class A 40 CFR 503.13, Tables 1 & 3

Compost facility shall comply with U.S. Composting Councils Seal of Testing Assurance (STA) Program.

III. EXECUTION

- A. Prior to any site disturbing activities all required silt fence, compost fences, temporary detention ponds and hay bale silt checks shall be installed and approved.
- B. A copy of an approved permit from all governing agencies shall be kept on site or with the responsible individual.
- C. Installation:
 - 1. Silt fence shall be installed in accordance with IDOT Standard Road Plan. Location of silt fence shall be according to approved plans.
 - 2. Compost erosion control measures shall be installed in accordance with current installation practices.
 - 3. Jute Mesh or Wood Excelsior Mat shall be installed according to IDOT Section 2601.15.
 - 4. After installation of storm intakes, field drains or culverts, adequate erosion and sediment control shall be installed in accordance with the standard details shown in the specification or on the drawing.
- D. Monitoring:
 - 1. The Contractor shall designate an individual, including name, title, address and phone number, to be responsible for the following duties throughout the duration of the project.
 - a. Initial installation of the erosion control measures.

- b. Site inspections on a weekly basis and after rains greater than ¼" to assess the effectiveness of existing erosion control measures and to direct installation of additional erosion control measures in response to problems noted during said inspections. The designated individual will keep a log of the inspections and any corrective measures taken. No inspections are required while the ground is frozen or there is snow cover. Inspection will resume when the snow begins to melt. Inspections will continue until adequate ground cover is established to control erosion.
- E. Maintenance:
 - 1. Silt fences, intake protection devices and straw bales shall be kept in proper working condition until all land disturbing activities are complete, all turf re-establishment is complete and final inspections are performed.
- F. Removal:
 - 1. Contractor shall be responsible for complete removal of silt fence, posts, or any nonbiodegradable items used for installation of erosion control measures after Owner, Engineer or governing agency indicates they are no longer needed.



SEEDING & FERTILIZING SECTION 230

I. <u>GENERAL</u>

A. SCOPE

1. Work involves seeding and fertilizing all disturbed grass areas as shown on drawings.

2. All work shall conform to IDOT Section 2601.

II. PRODUCTS

- A. MATERIALS
 - 1. Urban Seed Mixture: IDOT Sec. 2601 for Urban Areas. Application Rate: 4 lbs./1000 S.F.

Kentucky Bluegrass70%Perennial Ryegrass10%Creeping Red Fescue20%

Rural Seed Mixture: IDOT Sec. 2601 for Rural Areas.

Fescue, Kentucky 31 or Fawn Ryegrass (perennial) Sideoats Grama (Butte or Trakway) Switchgrass (Neb. 28, Blackwell, Pathfinder or Cave-in Rock) Birdsfoot Trefoil (Empire)

25 lbs./acre 15 lbs./acre 5 lbs. Pure Live Seed (PLS) per acre 3 lbs. PLS/acre 5 lbs./acre

Native Seed Mixture: IDOT 2601

Temporary Cover or Nurse Crop Seed Mixture: IDOT Section 2601.05. Seed mixture shall be based on time of year nurse crop is to be planted.

2. Fertilizer: IDOT Sec. 2601 for Urban and Rural Areas (13-13-13) or equivalent. Application Rate: 750 lbs. per acre.

3. Mulch: IDOT Section 2601. No mulching is required unless specifically noted on plans or bid item. Any areas to be mulched shall be at a rate of 3000 lbs./acre

- 4. Silt Fencing: IDOT Section 4196, 01A, Trevira, Spunbound Fabric Type 1114 or equal.
- 5. Furnish seed analysis labels meeting IDOT 4169.02 for all seed mixtures.

III. EXECUTION

- A. INSTALLATION
 - 1. Prepare seeding bed as per IDOT Sec. 2601.04 (A).
 - 2. Apply fertilizer at the rate specified in IDOT 2601.04(B).

3. Furnish and spread seed at the rate called for in IDOT Sec. 2601.04(C) depending on mixture specified.

SEEDING & FERTILIZING

SECTION 230

4. Normal seeding periods shall be March 1 through May 31 and August 10 through September 30. Deviation from these seeding periods will be considered by the Engineer upon written request from the Contractor.

5. Seed all disturbed areas with rural seed mixture except residential type lawns shall be urban mixture.

6. Mulch all seeded areas in accordance with IDOT 2601.06.

7. Install silt fencing as shown on the drawings or as directed by the Engineer.

8. Contractor shall fence or rope off areas seeded which may be disturbed during turf establishment.

9. Contractor shall be responsible for keeping soil moist during germination and watering lawns a minimum weekly for 45 days.

10. Contractor shall regrade and reseed disturbed or unestablished turf areas.

END OF SECTION

EXCAVATION & BORROW SECTION 300

I. GENERAL

A. <u>SCOPE</u>

1. All excavation to be performed shall be considered as Unclassified Excavation and shall consist of either topsoil stripping, site grading, pond excavation or building excavation.

2. Includes all required excavation, stockpiling, placement, compaction and fine grading.

B. EXISTING UTILITIES

- 1. Cooperate with Owner and utility companies for maintaining service.
- 2. Repair damage to existing utilities as directed by utility company.

II. PRODUCTS

A. FILL MATERIALS

1. Suitable clay material from grading and excavation operations on the site may be used upon approval from the Engineer.

- 2. Pit run gravel as approved by Engineer.
- 3. Do not use black earth or topsoil as fill in dikes or under proposed paving, structures or pads.

III. EXECUTION

A. EXCAVATION

1. All areas to be excavated or filled shall have vegetation removed prior to excavating.

2. Excavation consists of removal and disposal of materials encountered when establishing required grade elevations.

3. Topsoil shall be stockpiled separate from other materials to be used later for earth slope finishing.

4. Stockpiling of stripped topsoil shall be as shown on the drawings or within the site limits as directed by the Engineer.

5. Any wood, piping, rubble or deleterious materials encountered during excavation shall be disposed of by the Contractor.

- 6. "Topsoil Removal":
 - a. Strip topsoil as directed below unless shown on plans otherwise or as directed by Engineer.

EXCAVATION & BORROW SECTION 300

b. Earthen Ponds: Strip all topsoil from proposed pond bottom areas and off any dike areas to receive fill.

- c. Buildings: Strip top six (6) inches of topsoil and vegetation beneath building structures.
- d. Roadways/Parking Area: Strip top six (6) inches to remove vegetation.
- e. Areas to have Grade Lowered: Strip top six (6) inches to remove vegetation
- 7. If the grade is in advertently cut below proposed subgrade elevation, provide acceptable clay or granular material from the site for fill, free of rock or gravel larger than 2 inches in diameter, debris, waste, frozen materials, vegetable and other deleterious matter.

8. <u>Pond Side Slope Excavation</u>: When an earthen pond is being constructed wholly or partially into existing soil the existing exposed side slope shall be overexcavated, material replaced and compacted to provide a minimum 12" recompacted liner. The interior side slopes will be staked by the Engineer to provide a one-foot overexcavation on all existing interior side slopes.

- 9. Pond Bottom Excavation: The perimeter drain tile and/or tile inspection trench shall be installed prior to excavation of the pond. As the pond is excavated near the bottom elevation it is recommended that suitable excavated material is placed on the interior side slopes in areas where the side slopes were cut into the existing ground. This placed material will become the 12-inch compacted liner for the interior side slopes. Once the pond bottom is excavated to grade the pond bottom shall be over-excavated a minimum of six (6) inches below the proposed bottom of pond. If unsuitable material, as determined by the Engineer, is encountered an additional eighteen (18) inches shall be over-excavated for a total over-excavation of twenty-four (24) inches. The Contractor shall be responsible for controlling rainwater during construction (i.e. pumping, grading to sump, diversion ditch, etc.). It is anticipated that pond excavation would be performed with scrapers, however the Contractor is responsible for his means and methods of construction. Pond will be staked by Engineer prior to construction. Finished grade shall be within 0.1 feet plus or minus.
- 10. <u>Cast In Place Concrete Structures</u>: Excavate to firm subgrade and place granular base. Remove unsuitable material and replace with stabilization rock.
- B. <u>FILL</u>

1. <u>Ground Surface Preparation</u>: Remove vegetation, debris, unsatisfactory soil, obstructions and deleterious materials from ground surface prior to placement of fills. Disk surfaces (minimum 8" deep) so that fill material will bond with existing surface.

2. Place fill in layers not more than 8 inches in loose depth. Before compaction, moisten or aerate each layer as necessary to provide the optimum moisture content. Compact as described in Paragraph 3.C below.

3. Do not place fill on surfaces that are muddy, frozen or contain frost.

4. Additional fill required in roadways or building pads shall be suitable clay obtained from on site or borrow source.

5. Top 6" of final grade shall be replaced topsoil in areas where seeding is shown or specified.

EXCAVATION & BORROW

SECTION 300

6. <u>Pond Dike Construction</u>: After topsoil has been removed the underlying material shall be prepared as specified in paragraph A above. Suitable fill material shall be placed in maximum 8" lifts and compacted as specified in Section 3.C.

7. <u>Pond Side Slope Liner Construction</u>: After excavation is complete down to the designed pond bottom elevation along any interior dike sides that were formed by excavation, the side slopes shall be inspected for unsuitable material. If unsuitable material is encountered, as determined by the Engineer, it shall be removed to a minimum depth of twelve (12) inches. This would provide for a total of 24 inches of overexcavated material on the interior side slopes because the slopes were overexcavated 12 inches to start with (Refer to Section 3.A.8. above). If no unsuitable material is encountered on the excavated side slope then 12 inches of suitable material from the remaining pond bottom excavation shall be placed on the side slopes in two 6-inch lifts and compacted to produce a minimum 12-inch compacted liner.

8. <u>Pond Bottom Construction</u>: After all over-excavation has been performed, in accordance with Section 3.A.9. above, the underlying material shall be scarified by disking to a minimum depth of 6 inches. This disked material shall be inspected by the Engineer to determine if it is suitable material. If it is considered unsuitable additional over-excavation shall be performed as specified in <u>POND_EXCAVATION</u> above. If the disked material is suitable the disked material shall be recompacted as specified. The original 6 inches of over-excavated material shall be replaced and compacted as specified. The initial over-excavation and disking of suitable material shall provide for a 12 inch compacted soil liner in the pond bottom. If more than the initial six inches of overexcavated material was removed, suitable fill material shall be placed and compacted to bring pond bottom up to proposed elevation and to provide a 24" compacted soil liner in pond bottom. If any sand seams, gravel, organic or unsuitable material is encountered during pond bottom overexcavation or disking these soils shall be removed to a minimum depth of 24 inches and suitable fill placed and compacted.

- 9. <u>Bentonite Liner Construction</u>: If the Engineer determines soil liner is not acceptable or will not meet permeability requirements a bentonite liner shall be required as described below:
 - a. The top 6 inches of soil shall contain soil additives to obtain the necessary seal. Bentonite or an equivalent polymer-bentonite mixture shall be placed.
 - b. Base soil shall be free of all organic material. Disk to a minimum depth of 6 inches using a minimum of three passes in different directions and permitted to become relatively dry before proceeding.
 - c. If the surface is irregular, level with a suitable drag.
 - d. Spread the soil additive (bentonite) uniformly over the area at a rate to be determined by the Engineer, but estimated to be 2.0 pounds per square foot. Spread in at least two passes at right angles with lime spreader.
 - e. Blend the sealant with the top 4 inches of soil, using a PTO driven power tiller, making not less than one pass. (Disc not acceptable)
 - f. If the surface is irregular, level with a drag. Final elevations shall not be more than ± 3 inches from the average elevation of the bottom.

g. Roll the area with a steel-wheeled or rubber-tired roller to attain a minimum 95% Standard Proctor Density.

EXCAVATION & BORROW

SECTION 300

h. Spreading shall not be conducted during windy weather or where compacting cannot be finished before a rain.

i. Bentonite shall be Wyoming grade sodium bentonite with 90% montmorillonite content. The particle size must range from 20% maximum + #20 mesh to 20% maximum - #40 mesh with a maximum moisture content of 10% as shipped. The free swell minimum is 24cc and a typical water absorption of 900% is required. An equivalent polymer-bentonite mixture may be used as approved by Engineer.

10. <u>I.D.N.R. Design Criteria</u>: Contractor shall be responsible for conforming to IDNR specifications

for pond seal and construction. Copy of IDNR specifications is available from Engineer upon request.

C. COMPACTION

1. All disked materials and fill materials shall be placed in lifts not exceeding 8 inches and compacted to a minimum of 95% of the maximum density as determined by the Standard Proctor Test. Material shall be placed when it exhibits a moisture content at or above the optimum content as determined by the Standard Proctor Test. Engineer will conduct soil density tests as needed. Contractor to assist Engineer with tests by leveling grades, etc.

- 2. Moisture Control:
 - a. Material shall be compacted at or above the optimum moisture content.

b. Remove and replace, or scarify and air dry, soil that is too wet to permit compaction to specified density.

c. Soil that has been removed, because it is too wet to permit compaction, may be stockpiled or spread and allowed to dry. Assist drying by discing, harrowing or pulverizing, until moisture content is reduced to a satisfactory value, as determined by moisture density tests.

- d. Add water uniformly to soil that is too dry to compact to specified density.
- e. Contractor shall supply his own water. It may be obtained from the Owner if well is installed.

D. TESTING

1. Once the pond bottom and dikes are completed permeability tests shall be performed on undisturbed core samples from the pond bottom and interior dikes. At least two bottom samples shall be tested up to one bottom sample per acre of surface area. One sample shall also be obtained from each interior dike below the maximum manure level. The undisturbed samples shall be tested for permeability in accordance with ASTM D-1587. The coefficient of permeability shall not exceed the IDNR criteria of 1.08×10^{-7} cm/sec. If permeabilities fall below the IDNR criteria the pond bottom or dike shall be reworked to achieve proper compaction and successful retesting of permeabilities. Sample holes shall be filled with granular bentonite. Well abandonment forms shall be filled out for each monitoring well abandoned.

E. MAINTENANCE

1. <u>Protection of Graded Areas</u>: Protect newly graded areas from traffic and erosion and keep free of trash and debris.

EXCAVATION & BORROW

SECTION 300

2. <u>Protection of Pond Liners</u>: If construction of ponds precede use of ponds such that dry conditions will dry out pond bottoms or dikes, Contractor shall be responsible for filling ponds to maintain seal or redisking bottom and sides and recompacting prior to use.

3. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.

4. Install erosion protection rock on inside corners of earthen ponds as shown. Rock to be native fieldstone, crushed limestone or crushed concrete.

F. DISPOSAL OF EXCESS AND WASTE MATERIALS

1. Excess clay material shall be hauled to the pad areas. Excess clay remaining after final grading shall be placed on pond dike exterior.

2. Excess topsoil shall be left in designated stockpile area.

END OF SECTION

TRENCHING, BACKFILLING & COMPACTING SECTION 320

I. GENERAL

A. <u>SCOPE</u>

1. This section covers the labor and materials relating to excavation, backfilling and compaction of backfill.

2. Contractor shall perform all necessary excavation, shoring, bracing, dewatering, bottom stabilization, utility protection, pipe bedding, initial backfill, trench backfill, compaction, grading and cleanup as required to install utilities and structures as shown on plans or specified herein.

3. Perform all work in accordance with best present day construction practices.

B. WORK BY OTHERS

1. Engineer shall perform all soil compaction testing. Contractor shall assist Engineer during testing and notify Engineer when new areas are being backfilled.

2. Reference to percent maximum density shall mean a soil density not less than the stated percent of maximum density for soil as determined by ASTM D698 "Moisture-Density Relations of Soils using 5.5 lb. Hammer and 12" Drop (Standard Proctor).

C. PROTECTION OF EXISTING UTILITIES

1. Contactor shall be responsible for making an Iowa One call to have utility companies field locate existing utilities before the start of any excavation.

2. Contractor shall be responsible for verifying location and existence of all underground utilities. Omission from or inclusion of located utility items does not constitute non-existence or definite location. Secure and examine local utility records for available location data.

3. Take necessary precautions to protect existing utilities from damage due to any construction activity. Repair all damages to utility items at sole expense. Assess no cost to Owner, Engineer or auxiliary party for any damages.

D. JOB CONDITIONS

1. Contractor shall accept site in condition at time of construction. Notify Engineer or Owner immediately if site conditions are significantly different than during solicitation of construction bids. Surface water or groundwater level fluctuation shall not be considered change in site condition.

2. Contractor shall make provisions if working in wet or frozen conditions to prevent installation on frozen ground or backfilling with excessively wet or frozen material.

E. <u>SAFETY</u>

1. Nothing as indicated in these specifications or drawings shall relieve the Contractor from complying with appropriate safety regulations including OSHA Standards or state and local building codes.

2. Pile excavated material suitable for backfill in an orderly manner sufficient distance back from edge of excavation to avoid rollbacks, slides or cave-ins.

TRENCHING, BACKFILLING & COMPACTING SECTION 320

3. Erect sheeting, shoring and bracing as necessary for protection of persons, improvements and excavations.

II. PRODUCTS

A. EXCAVATION CLASSIFICATION

- 1. <u>Earth</u>: All materials not classified as rock or rubble; includes clay, silt, sand, gravel, hardpan, disintegrated shale and rock debris, junk, brick, loose stones and boulders less than ½ cubic yard in volume.
- 2. <u>Rock</u>: Buried boulders larger than ½ cubic yard in volume or solid deposits so firmly cemented together that they cannot be removed with a ½ cubic yard rated backhoe.
- 3. <u>Rubble</u>: Buried concrete foundations, beams, walls and other materials which required continuous use of pneumatic tools or blasting.

B. TRENCH STABILIZING MATERIAL

1. 2" coarse, sharp, clean crushed stone. Material shall be crushed to 100% passing a 2" sieve, 10%-50% passing a $\frac{3}{4}$ " sieve and less than 5% passing a No. 8 sieve or other material approved by the Engineer.

C. PIPE OR STRUCTURE BEDDING

1. Crushed stone or gravel meeting IDOT Section 4115 Gradation No. 3 or 5 for coarse aggregate for concrete.

D. INITIAL BACKFILL

1. IDOT Section 4120 Gradation No. 10 (Class "C" Road Gravel).

E. POROUS BACKFILL

1. IDOT Section 4131 Gradation No. 29 (washed pea gravel).

F. GRANULAR BACKFILL

1. Pit run material subject to approval of Engineer.

G. CONTROLLED DENSITY FILL

1. High slump mixture of Portland Cement, flyash and fine aggregate shall meet IDOT Section 2506 requirement for flowable mortar.

III. EXECUTION

A. INSPECTION

- 1. Verify that preceding work affecting work of this section has been satisfactorily completed.
- 2. Correct conditions adversely affecting work of this section.

TRENCHING, BACKFILLING & COMPACTING

SECTION 320

- 3. Verify that existing utilities are marked prior to excavation.
- 4. Perform any exploratory excavation as shown or specified.

B. EXCAVATION FOR STRUCTURES AND APPURTENANCES

- 1. Includes excavation for manholes and other appurtenances.
- 2. Strip suitable topsoil or granular surfacing materials for later replacement.
- 3. Excavate as required to firm, undisturbed soil. If excavation is carried below bottom of foundationsas shown on plans, fill with 3,000 psi concrete or stabilizing material as directed by Engineer at no expense to Owner.
- 4. When unstable material is encountered which will not provide suitable foundation, fill with 3,000 psi concrete or stabilizing material specified hereinafter or as directed by Engineer. Extra work provisions shall apply.

C. TRENCH EXCAVATION

- 1. Excavate trenches by open cut method. Permission to tunnel under crosswalks, driveways or utility lines may be granted by Engineer or Owner.
- 2. Limit open trench to 300 lineal feet at any one time.
- 3. Keep width of trench as narrow as possible. See utility specification for the maximum trench width.
- 4. Keep sides of trench as nearly vertical as practicable within the limits of excavating safety and applicable codes. Maintain vertical walls of excavation below top of pipe.
- 5. Provide access to operable fire hydrants, driveways and accesses unless specifically noted otherwise.
- 6. When unstable material is encountered which may not provide a suitable foundation for pipe:
 - a. Notify Engineer immediately.
 - b. Engineer will investigate questionable material to determine its suitability for pipe foundation.
 - c. If material is considered unsuitable for foundations, Engineer will specify and authorize remedial measures in writing.
 - d. If removal of unsuitable material is authorized:
 - 1. Replace with trench stabilizing material.
 - 2. Authorized over-excavation and trench stabilizing material will be paid for as trench stabilizing material.
 - 3. Provide minimum of 4" of bedding material on top of stabilizing material to prevent point load. Bedding material shall be graded sufficiently coarse to prevent movement and loss of bedding into trench stabilizing material.

TRENCHING, BACKFILLING & COMPACTING SECTION 320

e. Authorized remedial measures not covered by contract unit prices will be paid for as Extra Work.

- 7. Excavate by hand:
 - a. Under and around utilities.
 - b. Where overhead clearance prevents use of machine.
 - c. Under trees and shrubs that are shown to remain.

D. ROCK AND RUBBLE EXCAVATION

1. Excavate to provide 2" of granular bedding for pipe, structures and appurtenances.

2. Use of explosives: Submit detailed plans outlining all proposed blasting operations, locations, methods and use of mats and other safety measures.

a. Obtain written approval from municipal authority and Engineer before using explosives.

b. Provide Special Hazard Insurance covering liability for all blasting operations. Cost is incidental to cost of rock excavation.

c. Use experienced demolition personnel.

3. Remove excavated rock or rubble not suitable for backfill to an acceptable disposal area. Disposal is incidental to cost of rock excavation.

4. Trench bottom carried below required elevations: Replace with pipe bedding material.

E. <u>DEWATERING</u>

- 1. Perform all work in the dry to satisfaction of Engineer.
- 2. Lay no pipe in, and pour no concrete on, excessively wet soil.
- 3. Prevent surface water from flowing into excavation. Remove water as it accumulates.
- 4. Divert stream flow away from areas of construction.

5. Contractor's method of managing water encountered during construction shall conform to all laws and permits in effect.

6. Contractor shall obtain approval from Engineer prior to any dewatering.

7. Do not pump water onto adjacent property without approval of Engineer and adjacent property owner. Do not use sanitary sewers for disposal of ground water.

F. SHEETING, SHORING AND BRACING

1. Construct sheeting, shoring and bracing required to hold walls of excavation and to provide safety for workmen; to protect existing utilities or structures; or to permit construction in the dry.

TRENCHING, BACKFILLING & COMPACTING SECTION 320

2. Wood sheeting driven below level of pipe: Leave in place to a level 5' below finish grade.

3. Pull steel sheeting except where shown on plans.

4. When moveable trench shield is used below spring-line of pipe, it shall be lifted prior to any forward movement to avoid pipe displacement.

G. BEDDING

- 1. Place specified bedding after excavation or trench has been excavated to proper grade.
- 2. Place, compact and shape bedding material to uniformly support structure or full length of piping.
- 3. Provide bedding as shown on plans or specified in utility sections.

H. BACKFILL FOR STRUCTURES

1. Backfill after poured-in-place concrete or masonry has cured for 48 hours.

2. Backfill with material removed from excavation except where sand or granular backfill is specified. Use no debris, frozen earth, large clods, stones or other unsuitable material.

- 3. Backfill simultaneously on all sides of structure. Save structure from damage at all times.
- 4. Compact backfill at structures to density not less than specified for adjacent trench.

I. INITIAL PIPE BACKFILL

1. Place specified initial backfill after pipe has been placed, checked for grade and alignment and pipe bedding is fully supporting pipe.

2. Place initial backfill in maximum 8" lifts. Spread backfill uniformly and hand compact to 12" above pipe as specified.

J. TRENCH BACKFILL

1. Backfill with material removed from excavation except where sand or granular backfill is specified. Use no debris, frozen earth, large clods, stones or other unsuitable material.

- 2. Place backfill into the trench at an angle so that impact on installed pipe is minimized.
- 3. Install cushion of 4 feet of backfill above pipe envelope before using heavy compacting equipment.
 - a. Trenches where "granular" is shown on plans.
 - 1. Backfill with pit run up to bottom of specified surface restoration.

2. Compact to 95% minimum standard proctor density under and within six feet of pavement; 90% minimum density in other areas.

- 3. Hydraulic compaction permitted only upon approval by Engineer.
- 4. Top 12 inches of backfill shall match soil equivalent to adjacent excavation.

TRENCHING, BACKFILLING & COMPACTING

SECTION 320

- 5. Refer to Paving Section for subbase requirements beneath pavements.
- b. Trenches where "Compacted Backfill" is shown on plans:
 - 1. Backfill with suitable excavated material up to bottom of specified surface restoration.

2. Dry or moisten if required; compact to 95% minimum standard proctor density under and within two feet of pavement; 90% minimum density in other areas. Engineer will conduct soil compaction tests as needed. Contractor shall rework all areas not meeting compaction specification.

- 3. Top 12 inches of backfill shall match soil equivalent to adjacent excavation.
- 4. Refer to paving section for subbase requirement beneath pavements.
- 5. Maximum lift of compacted backfill shall be 12".
- c. "Ordinary Backfill":
 - 1. Use unless otherwise shown on plans.
 - 2. Backfill trench with excavated material and compact to same density as adjoining soils.
 - 3. Top 12 inches of backfill equivalent to adjacent topsoil.
 - 4. Mound up or level off to original surface as directed by Engineer.

d. Where select earth backfill is required to replace unsuitable excavated material, Extra Work provisions shall apply.

- 4. If settlement above compacted or sand backfill occurs within period of guarantee and bond, refill, compact, level off and resurface.
- 5. If new pipe is installed below existing utilities (i.e. water, sewer, gas, electric, etc.) then Contractor shall backfill beneath utility to satisfaction of utility owner.

END OF SECTION

UTILITY CONFLICT REPAIRS SECTION 330

I. GENERAL

A. <u>SCOPE</u>

1. This section covers the requirements for materials to furnish and install all pipe, fittings, structures and accessories required for moving existing utility mains and services out of the way of new storm, sanitary sewer, water main or other construction to be installed as specified or shown on the plans.

2. Before installation of new facilities, verify sizes, measurements, type and location of existing piping and appurtenances at points of connection to existing system.

3. Make necessary field measurements to determine piping laying lengths; work pipe into place without forcing or springing.

4. Do work in accordance with best present-day installation and construction practices.

II. PRODUCTS

A. MATERIALS

- 1. Ductile Iron Pipe (water main):
 - a. AWWA C151, Class 52, unless specified otherwise
- 2. PVC C900 or C909 (water main or sanitary sewer main)
- 3. PVC SCH40 (sanitary sewer service lines):
 - a. ASTM D2665
 - b. Joints and Fittings, solvent weld
- 4. Copper Pipe (water service lines): ASTM B88, Type K, annealed
- 5. Fittings: AVWA C153 compact, restrained, mechanical joint for water main.
- 6. Repair Sleeves: Clow Band-Seal or approved equal meeting ASTM C-594
- 7. Coupling: "Dresser" style coupling with gaskets to suit pipe encountered.
- 8. Concrete: IDOT Section 2301, Class B Mix or solid concrete block as directed by the Engineer.
- 9. Field Tile:
 - a. PVC Plastic, ASTM C900, Class 150. Use Fernco rubber adapters as necessary.
 - b. HDPE, Heavy Duty, perforated with connecting bands.

UTILITY CONFLICT REPAIRS SECTION 330

III. EXECUTION

A. PIPE INSTALLATION

1. Ductile Iron Pipe: AWWA C600

2. PVC C900 or C909: ASTM D2321

3. PVC SCH 40 Pipe: ASTM D2774

4. Minimum depth to top of water line pipe: 6.0 feet or as directed by the Engineer.

5. The width of the trench shall be ample to permit the pipe to be laid and joined properly but should be no more than 12 inches on either side of the pipe.

6. Lay pipe in the dry and thoroughly compacted backfill.

7. Clean pipe interior of foreign material before lowering into trench; keep clean at all times by securely closing open ends of pipe and fittings with watertight plug to prevent ingress of foreign material at all times when pipe jointing operation is not in progress. If water is in the trench, the seal shall remain in place until the trench is pumped dry.

8. Place in trench in sound, undamaged conditions. Do not injure pipe coating or lining. <u>Do not use</u> end hooks to install or move pipe.

9. Cut pipe in neat and workmanlike manner without damage to pipe; mechanical pipe cutters subject to approval of Engineer; bevel cut ends of push-on type pipe.

10. Before installation, visually inspect for cracks or defects; damaged or unsound pipe will be rejected.

11. Deflect pipe joints, as shown on plans, in accordance with pipe manufacturer's recommendations.

12. Plug or cap and block all pipe ends or fittings left for future connections.

13. Uncover existing mains a sufficient time ahead of pipe laying operations to determine fittings required to make connections; make connections between existing and new water mains with specials and fittings as required.

B. WATER MAIN AND SERVICE LOWERING OR RAISING WITH ELBOWS OR PIPE EXTENSIONS

1. Locate valves and shut off line.

2. Cut and install necessary elbows, pipe restrained fitting and thrust blocks.

3. Provide a minimum of two inch clearance between water line and storm sewers.

Refer to water main or sanitary sewer specifications for clearances.

5. Maintain uniform, thoroughly compacted trench bottom to support piping.

6. Secure pipe and return pressure to the line and inspect all joints for leaks before completion of backfilling and compaction.

UTILITY CONFLICT REPAIRS SECTION 330

7. Backfill with granular material if directed by the Engineer.

8. Use 45° elbows on mains 4" and larger.

C. SEWER SERVICE LINE RECONSTRUCTION

1. Where sewer service lines cannot be supported across the proposed storm sewer trench, the lines may be temporarily removed and reconstructed. Keep length to be replaced to a minimum.

2. Prevent service lines from being plugged during construction.

3. Backfill and compact sewer trench to maximum density under all sewer services. Use granular material if directed by the Engineer.

4. Cut pipe and place watertight repair sleeve on firm, undisturbed soil. Contractor may use PVC or DIP across sewer trench.

5. Backfill and compact granular material around sewer repair to 24" above pipe with hand tamper.

- 6. Complete backfilling and compaction as directed by the Engineer.
- 7. Reference sewer repair location and depth for future location.

END OF SECTION

CAST-IN-PLACE CONCRETE SECTION 400

I. GENERAL

A. SCOPE

This section covers the requirements for cast-in-place reinforced concrete on the project including form work and reinforcing.

B. WORK BY OTHERS

1. The Engineer may conduct additional testing of concrete during placement in addition to tests required by Contractor.

2. Contractor is responsible construction staking for location and elevation. Contractor shall coordinate any staking requirements with Engineer.

C. <u>REFERENCES</u>

1. Comply with the latest published edition of the American Concrete Institute (ACI) and American O of Testing and Materials (ASTM) standards and codes:

a. ACI 318-05/ACI 318R, "Building Code Requirements for Reinforced Concrete and Commentary"

b. ACI 350/350R-01, "Code Requirements for Environments for Environmental Engineering Concrete and Commentary."

- c. ACI 350R-01, "Environmental Engineering Concrete Structures"
- d. ACI 347R-04, "Guide to Formwork for Concrete"
- e. ASTM A615 Deformed Billet Steel Bars for Concrete Reinforcement
- f. ASTM C94 Ready-Mixed Concrete
- g. ASTM C150 Portland Cement
- h. ASTM C309 Liquid Membrane-Forming Compounds for Curing Concrete
- i. ASTM C260 Air-Entraining Admixtures

II. PRODUCTS

A. MATERIALS

- 1. Formwork:
 - a. Exposed Surfaces: Metal, smooth fiberglass, hardboard, premium grade plywood or architectural forms as specified.
 - b. Concealed Surfaces: Plywood or No. 2 lumber.
 - c. Columns: Metal, fiberglass or cardboard (SONOTUBE or equal).
 - d. Insulated: Lite form or equal.

CAST-IN-PLACE CONCRETE SECTION 400

e. Form Release Agent: Non-staining mineral oil to prevent bonding to concrete and not affect bonding of curing and sealing agents

- f. Form Ties: Plastic snap cone ties with neoprene waterproof washer at center.
- 2. Reinforcement:
 - a. DeFormed Bars: ASTM A615 Grade 60. Deformations to meet ASTM A305,
 - b. Welded Wire Fabric: ASTM A185
 - c. Bar Supports: Plastic tipped non corrosive manufactured support.
- 3. Ready-Mixed Concrete: Class C, IDOT Sec. 2403.
 - a. Compressive Strength: 3500 psi minimum at 28 days for footing and slabs, 4000 psi for

walls

- and roof.
- b. Portland Cement: ASTM C150 Type I or II.
- c. Admixtures: Only when specified or authorized by Engineer
- d. Fine Aggregate: IDOT Sec. 4110
- e. Coarse Aggregate: IDOT Sec. 4115, Class 2 Durability
- f. Water to Cement Ratio = .5 by weight
- g. Air Content: 6.5% target value; range 5.5% to 7.5%
- h. Fly Ash, maximum 20% of cementious material. Silca Fume, maximum 20% of cementious material. The combination of fly ash and silica fume shall not exceed 35% of total cementious materials. Fly ash and silica fume will increase resistance to sulfates and reduce permeability. CAUTION: fly ash slows curing, especially in cold water and shall not be used after October 15th without permission from the Engineer.
- To minimize shrinkage cracks in floors, minimize the amount of cement-water paste and maximize the amount of large aggregate. Contractor may order water reducing or other admixtures, except <u>calcium chloride shall not be used</u>.
- 4. Curing Material: Liquid membrane, non staining. Sonneborn Kure and Seal or equal.
- 5. Expansion Joint Fillers: IDOT Sec. 4136.03. Sonneborn Sonolastic SL1 or equal.
- 6. Waterstop: Ribbed PVC or Bentonite Roll.

B. SUBMITTALS

1. Contractor shall submit proposed ready mix design along with test results to Engineer prior to placement of any ready mix concrete.

CAST-IN-PLACE CONCRETE

SECTION 400

2. Submit two (2) copies of reinforcing steel shop drawings to Engineer for review.

III. EXECUTION

A. INSPECTION

1. Verify that earthwork is completed to correct line and grade.

2. Check that subgrade is smooth, compacted and free of frost or excessive moisture before each concrete pour. Also inspect forms, waterstop, placement and grade of reinforcing steel.

3. Do not commence work until conditions are satisfactory.

B. WEATHER LIMITATIONS

- 1. Do not place concrete during rain, sleet or snow or on excessively wet subgrade.
- 2. Exposed concrete surfaces shall be kept continuously wet for at least 24 hours or until a curing compound is applied.
- 3. Allowable concrete temperatures:
 - a. Cold Weather: Minimum air temperature 40°F and rising
 - b. Hot Weather: Maximum concrete temperature 90°F

C. INSTALLATION

- 1. Formwork:
 - a. Install formwork to tolerances specified in ACI 301 Section 4.3.
 - b. Contractor shall coordinate tolerances allowed with subsequent construction requirements.

c. All formwork shall be adequately supported to prevent displacement and free of gaps or holes to prevent loss of mix.

- d. Forms shall have form release agent applied prior to placement of reinforcing steel.
- e. Formwork removal:
 - 1. Minimum of 24 hours at 50°F for footings or slab edges.

2. Minimum of 48 hours at 50°F for walls. No backfill allowed for seven days.

- 3. Minimum of fourteen days at 50°F for self supported floors or beams.
- 2. Reinforcing:

CAST-IN-PLACE CONCRETE

SECTION 400

a. All reinforcing shall be free of mud, rust, oil and grease prior to placement.

b. Field bending cold is allowed on reinforcing bars #5 and smaller. Heating and bending is not allowed.

c. All reinforcing shall have 3" minimum cover when placed against earth. All other locations 2" minimum.

- d. Refer to drawings for splice lengths.
- e. No reinforcing shall be cut for any opening unless approved by Engineer.

f. All reinforcing shall be supported off forms, earth and tied adequately to prevent displacement during construction.

g. Notify Engineer when reinforcing is installed. Contractor shall obtain Engineer's approval prior to placing concrete or covering up steel with formwork.

- 3. Cast-in-Place Concrete:
 - a. Verify forms are installed to line and grade and are secure.

b. Prior to placement of concrete, the forms and subgrade shall be free of wood chips sawdust, debris, standing water, ice, snow, extraneous oil, mortar and other harmful substances or coatings. Placement of concrete on mud, dried earth, un-compacted fill or frozen subgrade will not be permitted.

- c. Moisten subgrade, forms or existing concrete prior to placement.
- d. Install ¾" chamfer strips at corners of all exposed concrete.

e. Place concrete in position without separation of concrete materials. Dropping of concrete more than five feet is prohibited.

f. Place concrete continuously so that each pour unit will be monolithic in construction and will terminate at expansion, contraction or construction joint. permit not more than 30 minutes between depositing adjacent batches.

g. Consolidate concrete with mechanical vibrators operating at not less than 3500 vibrations per minute.

h. Finishing:

1. Exposed floors shall be floated and power trowelled or broom finished for non skid surface.

- 2. Concrete to receive additional concrete shall have rough or raked finish.
- Concrete to be concealed shall have float finish.

CAST-IN-PLACE CONCRETE

SECTION 400

4. Exposed walls shall have burrs removed, surfaces cleaned and all honeycomb and form tie holes filled with non shrink grout. If grout rub finish is shown on plans then entire surface shall be wetted and non shrink grout mixture rubbed on entire surface.

- 5. Use edger on all slabs.
- 6. Coordinate all surface finishes with Engineer.
- i. Curing:
 - a. Exposed slabs shall have liquid membrane curing and sealing agent applied in accordance with manufacturer's recommendation.
 - b. Walls shall be cured with liquid membrane curing agent.
 - c. Burlap continuously wetted for seven days is an acceptable curing method for all concrete.
- j. Backfilling: See Material Specification for Cast-in-Place Concrete
- k. All concrete shall be protected at Contractor's expense. Owner shall incur no expense for concrete repairs caused by the Contractor's operations.
- Tolerances: Elevation of floor slabs, top of walls, slat ledges, beam pockets and top of columns ± ¼". Horizontal length and width of top of wall, location of beam pockets and columns ± ½". Straightness of top of wall ± ¼". Anchor bolt spacing ± 1", centered in stem wall ± ½". Thickness of floor slab shall not be less than 5 inches at any point.

D. TESTING

1. Contractor shall submit ready mix design and test results to Engineer prior to any concrete placement.

2. Engineer will conduct all on site testing of concrete during placement.

3. Failure of any ready mix concrete to achieve specified air content or to exceed specified slump shall be cause to reject ready mix.

4. Engineer will cast compression test specimens, three each, for every major pour. Cylinders will be cast and stored at project site. Contractor shall furnish secure location for test cylinders. Engineer will transport cylinders to testing lab where one cylinder will be broke in seven days, one cylinder broke in 28 days and one cylinder held in reserve for 90 days. Engineer shall notify testing lab if third cylinder needs to be tested.

5. If Contractor desires placed concrete to have forms removed early, traffic applied, backfill placed or loads applied prematurely Contractor shall conduct additional testing at his expense (cylinders, beams, time-temperature curves, etc.) and furnish results to Engineer for consideration.

6. All lab test results shall be on proper forms and distributed to Contractor, Engineer and Owner.

7. Engineer may request core samples be taken for any concrete of questionable strength or quality. All such concrete found to be defective shall be removed and replaced by Contractor.

SUBDRAINS

SECTION 500

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I. GENERAL

A. SCOPE

1. This section covers installation of subdrain piping and accessories required for subdrains or drain tile as shown on the plans and/or specified herein.

2. Before installation of new tile, verify sizes, measurements, type and location of existing piping and appurtenances at point of connection to the existing system and other utilities in the area.

3. Do work in accordance with the best present-day installation and construction practices.

II. PRODUCTS

A. TILE

Single Wall HDPE: Perforated corrugated polyethylene, heavy-duty, meeting IDOT Sec. 4143, AASHTO M252 size per plan.

- B. <u>POROUS BACKFILL MATERIAL</u> IDOT Sec. 4131, Gradation No. 29 (washed pea gravel).
- C. <u>TILE VALVE</u> Valterra Slide Gate (Agri-Drain Corp.), or equal.
- D. <u>INTAKE</u> Hickenbottom style, size as shown, 3' below ground section, 3' perforated riser top.
- E. <u>RODENT GUARD</u> Size per plan. AgriDrain Rat Guard or equal.

III. EXECUTION

A. INSPECTION

1. Examine areas to receive tile for:

a. Completion of excavation to elevations and slopes indicated.

b. Obstructions which would interfere with subdrainage system installation and other utility lines.

2. Begin work only when conditions are corrected satisfactorily.

B. INSTALLATION

1. Subdrain: Place pipe sections on shaped bottom and complete joints with factory couplings.

2. <u>Knife Gate</u>: Per manufacturer's recommendations. Provide couplings, adaptors, reducers, etc., to match pipe furnished.

PERIMETER TILE SYSTEM

SECTION 510

I. GENERAL

- A. IDNR Rules: Where a perimeter tile system is required to control the elevation of the water table or saturated soils, it must lower the water table or saturated soils to below the bottom of the storage liner. Perimeter drainage tile shall be located at least two feet below the finished liner top elevation. Each manure storage area shall have a dedicated drain tile system with a dedicated riser, manhole or other access for collection of tile-water samples.
- B. **PERIMETER TILE**: Shall be 4 inch (unless shown otherwise on plans) heavy duty perforated corrugated polyethylene plastic agricultural drain pipe. Tile shall be bedded and covered with pea rock or 1/4" 1/2" crushed rock.
- C. **EXISTING TILE LINES**: Existing tiles shall be connected to a suitable by-pass tile system. Do NOT connect existing area tile lines to the perimeter tile system, unless authorized by the Engineer.
- D. GRAVITY OUTLET FOR PERIMETER TILE: Shall not be used where flood water may backup into the tile and contaminate the dedicated sampling port. The tile outlet shall have a rodent guard. The tile outlet may serve as dedicated sampling port, when it is easily accessible and will never be inundated and contaminated by flood water.
- E. **SUMP PUMPS**: Shall be required when ever a gravity outlet is not available and must be authorized by the Engineer. On sites with more than one below ground manure storage structure, only one common sump pump system is required, but each structure must have an individual sampling port.

F. **PUMP**: Shall be submersible type with 20' heavy duty electrical cord. Pump shall have an adjustable

piggy back float switch. Pump shall be capable of 25 GPM at 15 ft head. Pump shall be fitted with a discharge hose or pipe equal or larger than the discharge of the pump. Furnish and install fused weatherproof disconnect switch, plug and receptacle for each pump. Plug type connections should be used for quick exchange of pumps by farm workers.

G. CLEAN BACKFILL TRENCH: All organic material, card board, wood, paper, straw, etc shall be removed from trench before backfilling. These materials will decay and contaminate the perimeter tile system.

END OF SECTION

WASTEWATER PIPELINES SECTION 610

I. GENERAL

A. <u>SCOPE</u>

1. This section covers the requirements for the materials, installation and testing of wastewater pipelines.

2. Furnish and install all pipe, fittings, structures and accessories required for sanitary sewer construction as shown on plans and/or specified herein.

3. Before installation of new facilities, verify sizes, measurements, type and location of existing piping and appurtenances at joints of connection to existing system.

4. Do work in accordance with best present-day installation and construction practices.

B. WORK BY OTHERS

1. Engineer will stake out sanitary sewer for line and grade. Contractor to coordinate with Engineer on any staking preferences.

- 2. Engineer/Owner will obtain any necessary IDNR construction permits.
- 3. Contractor is responsible for any local building or sewer permits.

C. SUBMITTALS

1. Contractor shall submit two (2) copies of manufacturer's specifications or catalog data for piping, wyes, saddles, etc. to Engineer for review.

II. PRODUCTS

A. MATERIALS

1. Gravity Pipe and Force Main Pipe:

a. Pipe: PVC, AWWA C-900, Class 150 (DR 18) ASTM D1784. 20 foot lengths or PVC C909 Class 150 (molecularly oriented).

b. Push on gasketed joints with bell and spigot pipe meeting ASTM D3212.

- 2. PVC Pipe Gravity Main Pipe:
 - 1. Pipe: PVC, ASTM D3034 SDR 26 (Main)
 - 2. Push-on Elastomeric Gasketed Joint: ASTM D3212
- 3. Directionally bored pipe
 - a. Refer to Section 620
- 4. Gravity Service Laterals:

WASTEWATER PIPELINES SECTION 610

- a. Pipe: PVC Schedule 40 DWV meeting ASTM 2665, NSF listed. Minimum 20 feet length.
- b. Joints: PVC Schedule 40 solvent weld couplings using purple primer and rain or shine glue.
- c. Fittings: PVC Schedule 40 solvent weld pre-manufactured fittings.

d. Service Saddles: Saddle Type with Stainless Steel Straps, "O" Ring Seat. Outlet suitable for SCH 40 PVC. ROMAX, GENCO or equal.

- e. Service Wye: wye fittings to be same material as gravity main. Wye inlet to be 4" minimum.
- f. Couplings: One-piece rubber with s.s. bands. FERNO brand or equal.

5. Granular Bedding shall be crushed stone and/or gravel meeting IDOT Section 4115 Gradation No. 3 or 5 for coarse aggregate for concrete.

6. Initial backfill shall be IDOT Section 4120 Gradation No. 10 (Class C Road Gravel) or pit run sand at approval of Engineer.

B. SHIPMENT AND STORAGE

1. Do not telescope small pipe inside large pipe. Pipe shall be delivered on original skids and stored to protect from damage.

2. Handle by use of slings, hoists, skids or other approved methods.

3. Dropping or rolling is not permitted. Pipe with damage will be rejected; field patching not permitted.

III. EXECUTION

- A. PIPE INSTALLATION
 - 1. Gravity Pipelines:
 - a. Polyvinyl Chloride Pipe: Install according to ASTM D2321.
 - b. Begin pipe laying at lowest point with spigot ends pointing in direction of flow.
 - c. Keep interior of sewers clean and free of dirt.
 - d. Do not use sanitary sewers as a storm sewer. Plug the pipe at the end of each day's work.

e. Use no defective pipe; check for defects and hairline cracks at ends prior to lowering into trench.

f. Minimum depth of bury; four (4) feet to top of pipe.

g. Contractor shall maintain alignment and grade by use of pipe laser or acceptable methods approved by Engineer. Contractor shall coordinate with Engineer staking requirements.

WASTEWATER PIPELINES

SECTION 610

h. Connection to existing manhole shall be done by core drilling appropriate size hole, installing expansion type fitting (Link Seal or equal) and installing sewer pipe to form a watertight connection.

i. All holes for pipes passing through floors and walls shall be sealed water tight.

B. TRENCH WDTH

Keep the width of trench as narrow as possible. The maximum trench width from 12" above the top of the pipe to the bottom of the trench shall be as follows:

Pipe S	-	-																								Trench Width
4",	6"	• 53	 						•	ŝ	•3	 						•								24"
8",	10"	22	 	 		•			•		•	 			 •								•			28"
12"				•							0	 			• 2	•		•	•		•				•12	30"
15"				•	e.	2	•	•					•	•		•	•		•	e	•	e	•	ų.	e	36"

C. <u>BEDDING</u>

1. All pipelines shall be bedded in granular material as specified for granular bedding. Minimum of 6" below pipe.

2. Initial backfill requirements are dependent upon locations. Refer to Standard Details.

D. WASTEWATER PIPELINE SEPARATION FROM WATER MAIN

- 1. New wastewater pipeline paralleling existing water main:
 - a. Minimum horizontal separation: 10' clear

1. If conditions prevent relocation of new pipe or existing water main to obtain 10' separation, minimum may be reduced to no less than 3' clear by placing the top of the sewer at least 18" below the bottom of the existing water main.

2. If impossible to obtain 18" clearance, construct new pipe of cast iron or ductile iron pipe until separation or clearance condition is met.

2. New wasteline pipeline crossing existing water main:

a. Minimum vertical clearance: Top of sewer at least 18" below the bottom of the existing water main.

b. If 18" clearance below a water main cannot be obtained, or if pipe must pass over water main, place 20' length of PVC C900 pipe centered on the water main.

c. In no case shall the pipeline be placed closer than 6" below a water main or 18" above a water main.

3. Adequately support existing water main to prevent settling or breakage.

E. JOINT RESTRAINT

1. All buried fittings shall be restrained by restraining flanges. Buried M.J. fittings shall also be

WASTEWATER PIPELINES

SECTION 610

protected against thrust by cast in place concrete or precast concrete block fitted tightly to flush undisturbed trench wall. Refer to standard details.

F. TESTING (GRAVITY PIPING)

1. Alignment Test: After backfilling, alignment will be checked by lamping by the Engineer. The completed installation shall be so nearly perfect in line and grade that the light from an ordinary flashlight will be wholly visible through the pipe from manhole to manhole. If construction of pipeline was performed using an internal pipe laser, the alignment test will be considered successful if laser "dot" is visible from manhole to manhole.

2. Deflection Test:

a. Deflection (Mandrel) test shall not be required if PVC C900 or C909 piping material is used and alignment test is satisfactory

3. Leakage Test:

- a. All wastewater pipelines shall be successfully air tested to ensure proper installment.
- b. Follow ASTM C828, Low-Pressure Air Test of Sewer Line (4" to 15"), to test for leakage.

c. Use extreme care and safety precautions, especially in the manholes. Plugs should be installed in accordance with manufacturer's recommendations. No one shall be allowed in the manholes during testing.

d. The line may need to be flushed to produce consistent results.

e. Plug all inlets and outlets to resist the test pressure. Special attention must be given to stoppers and laterals.

f. Contractor shall utilize proper gauges and test equipment specifically for low pressure air tests.

g. The line will be accepted if the time required for the pressure to drop from 3.5 to 2.5 psig is not less than the time on the following table:

Pipe S	i	Ze	e										J	j	n	n	Э	in Minute	S
8"				æ	•			•				-						4.0	
																		5.0	
																		6.0	
15"																		7.0	

h. If the line fails, the leaks shall be repaired at the Contractor's expense and the line retested until it passes.

- i. Testing shall include any lateral service connections installed.
- j. Test entire sections of pipe between manholes.

G. TESTING (PRESSURE PIPING)

1. Test all pipe after installation in accordance with AWWA C600.

WASTEWATER PIPELINES SECTION 610

- 2. Contractor may test all segments or valved segments at his option.
- 3. Hydrostatic test:
 - a. Contractor shall provide water for hydrostatic test.

b. Flush out main before testing to remove air; insert taps or corporation stops to release trapped air and plug after test.

c. Line shall be filled slowly to prevent any damage to piping or valves.

e. Test at 150% of maximum operation pressure or 100 psig maximum for two hours; allowable pressure drop during test period shall be 10% of test pressure.

- f. Owner or Engineer shall witness test
- 4. Leakage Test:

a. Conduct after pressure test is successfully completed; maintain 100 psi pressure for two hours; measure water loss by pumping from drum or by similar means.

b. Maximum allowable leakage (I) in gallons per hour:

N = Number of joints in pipe section under test

- D = Pipe diameter in inches
- P = Average test pressure, psig

c. Provide all test pumps, test plugs, pipe and gauges, and make all required temporary piping connections for testing (incidental).

November 13, 2014



Geotechnical and Construction Material Consultants

AgriReNew 26618 20th Ave Stockton, IA 52765

Attn: Bryan Sievers

Re: Subsurface Exploration Proposed Storage Basin - Glenora Feed Yard Scott County, Iowa TEAM Project No. 1-3609

Dear Mr. Sievers:

We have completed the subsurface exploration for the proposed storage basin project near Stockton, Iowa. The accompanying geotechnical report presents the findings of the subsurface exploration and our recommendations concerning the construction of the proposed basin.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we may be of further service to you in any way, please do not hesitate to contact us.

Sincerely yours, TEAM Services

Dichola billes 110

Nicholas Gilles, P.E. Project Engineer

1.1.15.0-

Robert E. Doss, P.E. Principal Engineer

Robert E. Doss	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
12543 (A)	Robert E. Doss, P.E.License Number 12543Date: 11/13/14My license renewal date is December 31, 2014.Pages covered by this seal:All Pages

CC: Justin Sprague, E.I. - ProAg Engineering, Inc.

260-C 33rd Avenue SW • Cedar Rapids, IA 52404 • ph: 319-366-0759 • fx: 319-366-0793 • email: staff@teamservices.com Des Moines • Ft. Dodge • Cedar Rapids • Mason City • Davenport • Spirit Lake • Waterloo • Dubuque

Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

TABLE OF CONTENTS

PROJECT INFORMATION	.1
SITE CONDITIONS	an. al
FIELD EXPLORATION	1
LABORATORY TESTING	.2
Natural Moisture Content	.2
Unit Weight	.3
Unconfined Compressive Strength	.3
Standard Proctor	.3
Remolded Permeability Test	.3
SUBSURFACE CONDITIONS	.4
GROUNDWATER CONDITIONS	.5
KARST EVALUATION	.6
CONCLUSIONS AND RECOMMENDATIONS	.6
Liner Suitability and Groundwater Considerations	
Site Preparation and Earthwork Construction	
Synthetic Liner System	
Permanent Groundwater Control	
Temporary Excavation Support	9
Dike Slopes1	0
Erosion Control1	0
QUALIFICATION OF REPORT1	0

APPENDICES

SITE BORING PLAN LOGS OF BORINGS No.1-4 SUBSURFACE SOIL PROFILE SP-1 MOISTURE-DENSITY RELATIONSHIP TEST REPORT (1) PERMEABILITY TEST RESULTS (1) UNIFIED SOIL CLASSIFICATION SYSTEM GENERAL NOTES Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

PROJECT INFORMATION

Project information has been provided by Mr. Justin Sprague, E.I. of ProAg Engineering through an email to our Mr. Nick Gilles, P.E. on September 30, 2014. Included with the email was a site plan showing the proposed basin and boring locations. The project will include construction of a new storage basin at the Glenora Feed Yard facility at 26604 Glenn Street near Stockton, Iowa. It appears that the basin will have a bottom elevation of 774.0 feet and a capacity of approximately 10.9 million gallons.

SITE CONDITIONS

The proposed project is located at 26618 20th Ave in Scott County, Iowa. The site is located in a farm field north of the existing buildings. Based on the elevations of our borings, there is approximately 3 feet of relief across the area of the proposed basin. Surface soils were able to support our ATV-mounted drill rig without difficulty.

FIELD EXPLORATION

A total of 4 borings were drilled at the site on October 17, 2014. Boring locations were determined by our drill crew by referencing dimensions on the provided site plan. Ground surface elevations at the boring locations were determined by referencing contour lines on the provided site plan. The approximate boring locations are indicated on the Boring Plan in the Appendix and the elevations are provided on the respective boring logs. The locations and elevations of the borings should be considered accurate only to the degree implied by the means and methods used to define them.

Our drilling equipment consisted of an ATV-mounted auger drill rig. The borings were made by mechanically twisting a continuous flight hollow stem steel auger into the soil. At assigned intervals, the center drive bit of the auger was removed and soil samples were obtained. Following the drilling

Page 1 of 11

10

Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

of each boring, a temporary piezometer well was placed down the boreholes to allow for the collection of extended groundwater readings without concern for hole cave-in.

Representative samples were obtained using thin-walled (Shelby) tube and split-barrel sampling procedures in general accordance with ASTM Specifications D 1587 and D 1586, respectively. In the thin-walled tube sampling procedure, a thin-walled, seamless steel tube with a sharp cutting edge is pushed hydraulically into the ground to obtain relatively undisturbed samples of cohesive or moderately cohesive soils. In the split-barrel sampling procedure, a standard 2-inch outer diameter split-barrel sampling spoon is driven into the ground with a 140-pound hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the last 12 inches of a normal 18-inch penetration is recorded as the standard penetration resistance value. These values are indicated on the Boring Logs at the depths of occurrence. Bag samples of auger cuttings were obtained for potential Proctor compaction and permeability testing. The samples were tagged for identification, sealed and returned to the laboratory for testing and classification.

Field logs of the borings were prepared by the drill crew. These logs included visual classifications of the materials encountered during drilling, as well as the driller's interpretation of the subsurface conditions between samples. Final boring logs included with this report represent an interpretation of the field logs and include modifications based on laboratory observation and tests of the samples.

LABORATORY TESTING

Based on the driller's field records and examination of the samples in the laboratory, a soil testing program was developed to collect more information about the soil conditions at the site. The following is a brief description of the specific tasks completed for this project.

Natural Moisture Content -- The natural moisture content of selected samples was determined in accordance with ASTM D 2216. The moisture content of the soil is the ratio, expressed as a percentage,

Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

of the weight of water in a given mass of soil to the weight of the soil particles. The results are presented on the Boring Logs at the depths from which the samples were obtained.

Unit Weight -- In the laboratory, selected undisturbed samples of the site soils were measured and weighed to determine gross weight and volume of the samples. Where possible, the samples are placed in a template and trimmed at each end to fit the template. The moisture content of each specimen was then determined, and the dry unit weight was calculated. The results of these tests are also presented on the Boring Logs at the appropriate sample depths.

Unconfined Compressive Strength -- A calibrated hand penetrometer was used to estimate the approximate unconfined compressive strength of select samples. The calibrated hand penetrometer has been correlated with unconfined compression tests and provides a better estimate of soil consistency than visual examination alone.

Standard Proctor -- Samples from the project site were collected for compaction testing. A standard Proctor compaction test (ASTM D 698) was performed on a selected sample to determine its compaction characteristics, including maximum dry density and optimum moisture content. Test results are presented on the attached Moisture Density Relationship test sheet.

Remolded Permeability Test -- A bulk cohesive soil sample was remolded and compacted to approximately 95% of the dry unit weight determined by Standard Proctor compaction tests (ASTM D 698). The remolded sample was then tested in the laboratory to determine its permeability in general accordance with ASTM D 5084. In this procedure, a sample was compacted into a cylindrical mold. A falling head (pressure difference) was then applied to a sample end. The volume of water flowing through the sample was recorded through burette readings. The permeability of the soil was then calculated using Darcy's Law. Detailed information of the permeability test is presented on the Permeability Test Results sheet attached to this report.

As part of the testing program, the samples were classified in the laboratory based on visual observation, texture and plasticity. The descriptions of the soils indicated on the boring logs are in

Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

accordance with the enclosed *General Notes* and the *Unified Soil Classification System*. Estimated group symbols according to the *Unified Soil Classification System* are given on the boring logs. A brief description of this classification system is attached to this report.

SUBSURFACE CONDITIONS

Subsurface conditions encountered during this exploration are indicated on the individual boring logs. Based on the results of the borings, subsurface conditions on the project site can be generalized as follows.

Topsoil was encountered at the ground surface of our borings. The topsoil consisted of lean clay with trace amounts of organic matter and extended to depths of about 8 to 12 inches below existing grades.

Loess (wind-blown soil) was encountered beneath the existing fill in Borings 2 and 3 and at the ground surface in Boring 1. The loess soils at the site were typically lean clay (CL), although some higher plasticity fat clay (CH) loess was present beneath the existing fill in Boring 3. The loess soils extended to depths of about 8 to 17 feet below existing grades and exhibited medium stiff to stiff consistency.

Alluvium (water-deposited soil) was encountered beneath the loess deposits in our borings. The granular alluvium encountered at this site consisted of medium dense fine to medium sand. The cohesive alluvium consisted of medium stiff silt. The alluvial soils extended to depths of about 15 to $18\frac{1}{2}$ feet below existing grades.

Glacial soils were encountered beneath the loess deposits in all the borings. This material, which is usually called glacial till, was deposited during the advance or retreat of continental glacial ice sheets which covered this area. The glacial till soils are more or less unsorted soil deposits consisting of a mixture of sand, silt and clay, with the engineering properties of the soil being controlled by the clay fraction. Glacial till soils encountered included sandy lean clay (CL) exhibiting stiff to very stiff

Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

consistencies. Borings terminated in the glacial deposits at depths of 20 to 38 feet below existing grades.

Cobbles and boulders were not noted in our borings. However, glacial soils were encountered at the site, and these materials often contain cobbles and boulders. The possibility of their presence should be considered where excavations or grading operations at the site advance into the glacial soils.

The above descriptions provide a general summary of the subsurface conditions encountered. The attached Test Boring Records contain detailed information recorded at each boring location. These Test Boring Records represent our interpretation of the field logs based on engineering examination of the field samples. The lines designating the interfaces between various strata represent approximate boundaries and the transition between strata may be gradual. It should be noted that the soil conditions will vary between the boring locations. The generalized Subsurface Soil Profile presented in the Appendix (Figure SP-1) depicts the relative deposit elevations in the borings.

GROUNDWATER CONDITIONS

The borings were monitored while drilling and approximately 3 weeks after completing drilling operations for the presence and level of groundwater. Water levels observed in the borings are noted on the boring logs. During and immediately following drilling, groundwater seepage was not encountered in our boreholes. Piezometers consisting of 2" PVC casing and screen were installed in Boring 1 through 3. Extended groundwater levels in these borings were rechecked on November 7, 2014. At this time, groundwater was encountered at depths ranging from about 13 to 14 feet below existing grades.

These groundwater level observations provide an approximate indication of the groundwater conditions existing on this site at the time of drilling operations. Fluctuation of groundwater levels can occur due to seasonal variations in the amount of rainfall, runoff, surface drainage, subsurface drainage, site topography, irrigation practices, ground cover (pavement or vegetation), and other

Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

factors not evident at the time the borings were conducted. Normally, the highest groundwater levels occur in late winter and spring time while the lowest levels occur in late summer and fall time. The fluctuation of the groundwater levels should be considered when developing the design and construction plans for this project.

KARST EVALUATION

Based on a review of Iowa DNR data, there are no known sinkholes related to karst topography within 5 miles of the site. Also, no bedrock was encountered in the subsurface exploration. Therefore, karst topography is not likely a concern for construction at this site.

CONCLUSIONS AND RECOMMENDATIONS

Liner Suitability and Groundwater Considerations

A remolded permeability test was performed on the lean clay loess soils encountered in the upper 8 feet of Borings 2 and 3. Test results indicated that these soils are suitable for use as a soil liner. It is our opinion that the sandy lean clay glacial soils encountered at the site would be satisfactory basin liner materials, as well. However, alluvial sands, which are unsuitable clay liner materials, dominated the soils typically encountered at the proposed bottom-of-basin elevation at the site. Options for construction of soil liners for basins where sands are prevalent include collecting and placing a clay liner of suitable cohesive soils at least 2 feet thick over the sand soils, amending the existing sands with bentonite to form an amended soil liner at least 2 feet thick, or installing a synthetic liner. Synthetic liners are covered in more detail in the **Synthetic Liner System** section of this report. If an amended soil liner consisting of bentonite is desired, TEAM Services should be contacted to provide additional recommendations. Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

The Iowa Department of Natural Resources requires the installation of a permanent groundwater control system if the seasonal high groundwater level is above the basin bottom elevation and recommends a permanent groundwater control system if the seasonal high groundwater level is within 4 feet of the basin bottom. Based on our extended groundwater level readings, it appeared that seasonal high groundwater levels will be at or above the proposed bottom of basin elevation of 774.0 feet. Therefore, installation of a permanent groundwater control system should be performed. Additional recommendations for this system are presented in the **Permanent Groundwater Control** section of this report.

Site Preparation and Earthwork Construction

Cut and fill construction will be required to achieve the desired final grades for this project. Site preparation should begin with the removal of any organic-laden soils, vegetation and any loose, soft, or otherwise unsuitable materials. For planning purposes, we expect an average stripping depth of about 6 inches for undisturbed soil areas. The actual depth of stripping may vary depending upon vegetation cover and stability of the subgrade and the actual depth should be determined in the field in consultation with TEAM Services personnel. A four inch thick layer of topsoil strippings may be placed at the ground surface above the berm erosion protection to substantiate a grass stand. Otherwise, the site strippings and any near surface soils with organics should be used for landscaping purposes in non-critical support areas outside of the basin cells and berms.

The on-site soils can be excavated utilizing conventional excavation equipment. Fill placed for basin construction should consist of approved materials which are free of rocks larger than 3 inches, organic matter and debris. Fill for basin construction should be placed and compacted in a loose lift thickness of 12 inches or less and at a thickness compatible with the compaction equipment being used. The exposed surface soils between lifts should be lightly scarified, such as with a spike tooth harrow, to ensure proper adhesion between lifts. Compaction of granular soils can generally be suitably compacted with vibratory compaction equipment. Proper compaction of cohesive soils can be achieved with sheepsfoot or pneumatic type compactors. Sufficient density tests should be performed on each lift of engineered compacted fill placed to verify that adequate compaction is achieved.

Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

Cohesive fill placed for the basin and berm should be compacted to at least 95% of the material's maximum standard Proctor dry density (ASTM D-698) while granular fill should be compacted to 98% maximum standard Proctor dry density. A lesser degree of compaction is appropriate for trench backfill in areas outside the basin area where it is improbable that future roads or structures will be constructed. We suggest that the trench backfill outside of the basin be compacted to at least 90% of the material's maximum dry density as determined by the standard Proctor (ASTM D-698) test.

Moisture control is important to achieve adequate compaction. For cohesive soils, moisture contents within a range of -2 to +3 percent of the material's optimum moisture content (as determined by Standard Proctor ASTM D 698) are necessary to achieve the desired fill qualities while granular soils should be placed within 3 percent of the material's optimum moisture content.

Synthetic Liner System

As an alternative to the above referenced soil liner construction, the basin may be provided with a synthetic liner. The synthetic liner should be designed to reduce percolation to less than 1/16 inch per day at the design depth of the basin. If the basin is proposed to extend below existing grades, a drainage system will likely be necessary to aid in synthetic liner placement and to provide liner stability against excessive hydrostatic pressures during periods when the basin is empty.

Permanent Groundwater Control

It is recommended that the groundwater table be maintained below the bottom of the basin at all times. Iowa Administrative Code requires a 2 foot separation between the maximum seasonal groundwater level and the bottom of the basin. Based on our groundwater observations the approximate seasonal high groundwater levels are likely near the proposed basin bottom elevation. Therefore, we recommend that a permanent groundwater drainage system be constructed at the site to lower the groundwater table.

Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

The groundwater may be permanently controlled by using trench drains. The bottom of trenches should be at least 2 feet below the bottom of the basin but can be no more than 4 feet below the seasonal high groundwater level in accordance with Iowa Administrative Code Environmental Protection Commission (567) Chapter 65.109(3)c.

The drain tiles and trench backfill should be constructed as follows. Four-inch or larger perforated pipes leading to an appropriate gravity outfall should be installed on the bottoms of trenches which are dug to a minimum 2 feet, 4 inches below the proposed pond bottom elevation. The pipes should be encapsulated with relatively freely draining granular materials (less than 5 percent material passing the No. 200 sieve). The perforations in the pipe should either be sized to keep the drainable material out of the pipe or a suitable filter fabric should be installed around the pipes. Where slots or perforations are concentrated on one side of the pipe, the pipe should be oriented with the perforations or slots on the bottom of the pipe. The radial thickness of drainable material around the pipes should be used for backfill above the drain line and should extend to within 2 feet of final grade. The granular backfill should be capped with 2 feet of compacted cohesive fill to help prevent infiltration of surface water into the drain system. The granular material should be encapsulated with a suitable filter fabric to avoid clogging the granular backfill with fines.

Temporary Excavation Support

All excavations should comply with the requirements of OSHA 29 CFR, Part 1926, Subpart P, "Excavations and Trenches" and other applicable codes. This document states that excavation safety is the responsibility of the contractor. Reference to this OSHA requirement should be included in the job specifications.

Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

Dike Slopes

Sideslopes for basin dikes in both cut and fill areas should be 3 horizontal to 1 vertical or flatter. The crest of the dikes should be at least 10 feet in width to allow enough room for construction equipment at the site.

Erosion Control

A dense, well-maintained grass stand is recommended on the dry dike slope. Rip rap should be considered to protect the wet dike slope where wave action can cause erosion. Using angular rip-rap with a variety of rock weight ranging from 75 pound up to 2,250 pounds should provide optimal performance.

QUALIFICATION OF REPORT

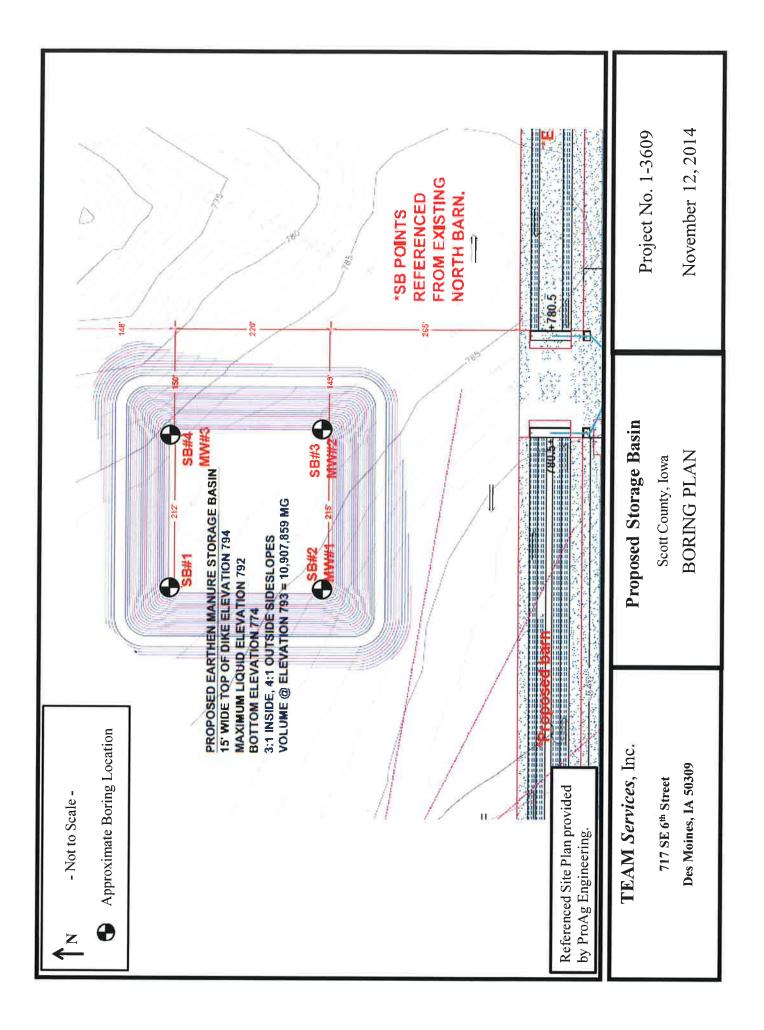
Our evaluation of basin construction conditions has been based on our understanding of the site, Iowa Administrative Code, the project information, and the data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpolation of subsurface data between the borings. In evaluating the boring data, we have examined previous correlations between soil properties observed in soil conditions similar to those at your site. The discovery of any site or subsurface conditions during construction which deviate from the data outlined in this exploration should be reported to us for our evaluation. The assessment of site environmental conditions or the presence of pollutants in the soil, rock, and groundwater of the site was beyond the scope of this exploration.

It is recommended that the geotechnical engineer be retained to review the plans and specifications so that comments can be provided regarding the interpretation and implementation of the geotechnical recommendations in the design and specifications. It is further recommended that the geotechnical

Subsurface Exploration Proposed Storage Basin – Glenora Feed Yard Scott County, Iowa TEAM No. 1-3609 November 13, 2014

engineer be retained for testing and observation during the basin construction phase to help determine that the design requirements are fulfilled.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No other warranty is provided. In the event that any changes in the nature, design, or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions of this report modified or verified in writing by the geotechnical engineer.



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GRAPHIC LOG	DESCRIPTION Approx. Surface Elev.: 786.7 ft.	DEPTH (ft.)	USCS SYMBOL	NUMBER	TYPE SAL	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	STRENGTH PSF	
AAAAA	0.8 Topsoil Lean CLAY, trace organic 786.0		CL	1	ST	19"		23.9	92	4000*	
	<u>matter</u> , very dark brown Loess Lean CLAY, light olive brown, stiff	v a Tan e a	CL					29.1	91	2500*	
		5-	SP	2	ST	14"		28.3	93	2000*	
	8.0 778.7 Alluvium Fine to medium SAND,										
	<u>trace silt</u> , brown	10	SP- SM	3	ST	12"		11.7			
	with silt and becomes medium dense @ about 11'		SP- SM	4	SS	12"	17	8.6			
1]]	15.0 771.7 Glacial Till Sandy lean CLAY, trace	15	SP- SM	5	SS	14"	13	13.8			
	gravel, yellowish brown, very stiff		CL	6	SS	18"	20	16.3			
	becomes stiff @ about 18'	20-	CL	7	SS	18"	14	15.9			
]])		25-	CL	8	SS	18"	12	16.4			
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GRAPHIC LOG	DESCRIPTION	DEPTH (ft.)	USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	STRENGTH PSF	
	Glacial Till Sandy lean CLAY, trace gravel, yellowish brown, stiff	-								род	
	becomes very stiff @ about 27'		CL	9	SS	18"	20	14.8			
		30-									
		35	CL	10	SS	18"	26	15.4			
	color changes to dark yellowish brown @ about 36' 38.0 748.7		CL	11	SS	18"	26	17.9			
	Bottom of Boring										
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GRAPHIC LOG	DESCRIPTION Approx. Surface Elev.: 783.8 ft.		DEPTH (ft.)	USCS SYMBOL	NUMBER	TYPE	RECOVERY	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF	
A.A.A.	0.7 Topsoil Lean CLAY, trace organic	783.1		CL	1	ST	17"	ы	24.0			
	 <u>matter</u>, very dark brown Loess <u>Lean CLAY</u>, dark grayish brown, stiff color changes to gray and light olive brown @ about 4' 		5	CL					28.0	91	2500*	
			10	CL CL	2	ST SS	14" 12"	2	29.4 28.4	88	500*	
	11.0 Alluvium Fine to medium SAND,	772.8										
	trace silt, brown, medium dense		_	SP	4	SS	14"	14	7.6			
ļļ,	13.5 Image: Signature of the second seco	770.3 768.8	15-	ML	5	SS	14"	3	24.5			
	gravel, gray and yellowish brown, very stiff			CL	6	SS	16"	15	17.0			
	20.0 Bottom of Boring	763.8	20-	CL	7	SS	18"	15	14.5			
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	1.0 Topsoil Lean CLAY, trace organic 785.8				ST	11"	ωщ	22.5	96	4500*	
	1.0 <u>matter</u> , very dark brown Loess – <u>Lean CLAY</u> , light olive brown, medium stiff	5		2	SS	14"	6	29.3			
	becomes soft @ about 7.5' 9.5 777.3 Alluvium Fine to medium SAND, with silt, brown, medium dense	10-	SM		ST	17"	12	24.1 11.9		500*	
	×	-	SP- SM	4	SS	17"	13	7.9			
	16.0 770.8	15-	SP- SM	5	SS	16"	10	7.0			
	Alluvium <u>SILT</u> , light olive brown, medium stiff 18.5 768.3	-	ML	6	SS	18"	4	22.0			
	Glacial Till <u>Sandy lean CLAY, trace</u> <u>gravel</u> , gray and yellowish brown, very stiff	20-	CL	7	ST	22"		18.5	108		
[]]	23.0 763.8 Bottom of Boring	1.2.2.1.2	CL	8	SS	18"	20	15.0 12.2			
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GRAPHIC LOG	DESCRIPTION Approx. Surface Elev.: 785.7 ft.	DEPTH (ft.)	USCS SYMBOL	NUMBER	TYPE	RECOVERY A	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	UNCONFINED STRENGTH PSF	
10000	0.8 Topsoil Lean CLAY, trace organic 784.9		CL	1	ST	17"	мщ	24.7		6000*	
///	<u>matter</u> , very dark gray		CL					28.4	90	2500*	
	 Loess Lean CLAY, dark brown, stiff color changes to light olive brown and becomes medium stiff @ about 3' 	5	CL	2	SS	18"	6	28.4			
	10.5 775.2 Alluvium Fine to medium SAND, trace silt, brown, medium dense	10-	CL	3	SS	10"	8	21.5 6.0			
		-	or	4	ەە	14	25	0.0			
	13.5772.2Alluvium - SILT, light olive brown, medium stiff769.7	15-	ML	5	SS	14"	7	22.4			
	Glacial Till <u>Sandy lean CLAY, trace</u> <u>gravel</u> , yellowish brown and gray, very stiff		CL	6	ST	13"		12.6	121	5000*	
	becomes stiff @ about 19'	20	CL	7	ST	18"		17.2	111	3000*	
<u> 11</u> 2	22.0 763.7 Bottom of Boring										
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GRAPHIC LOG	DESCRIPTION Approx. Surface Elev.: 784.0 ft.	DEPTH (ft.)	USCS SYMBOL	NUMBER	TYPE	RECOVERY 33	SPT - N BLOWS / FT.	MOISTURE, %	DRY DENSITY PCF	TESTS RENGTH F	
A.A.A.A	Topsoil Lean CLAY, with organic	Ā	ñ	Z	F	RI	BIS	Ň	ΠA	552	
	1.0 matter, very dark brown 783.0 Loess SILT, light olive brown and gray	-									
		-	ML	1	ST	8"		28.8	94	3500*	
		5	ML	2	ST	20"		28.3	91	2000*	
	8.0 776.0 Loess Lean CLAY, light olive brown		CL	3	ST	16"		28.9	91	1000*	
	11.0 773.0 Alluvium <u>Fine to medium SAND,</u> with silt, brown	10									
	13.5 770.5 Glacial Outwash <u>Clayey SAND</u> , brown	15									
/	17.0 767.0 Bottom of Boring		SC	4	SS	16"	5	11.4			
THE ST	RATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINGER SOIL AND ROCK TYPES: IN-SITU, THE TRANSITION MAY BE GRAD	IES	in				Cali	brated H	and Pene	troineter*	
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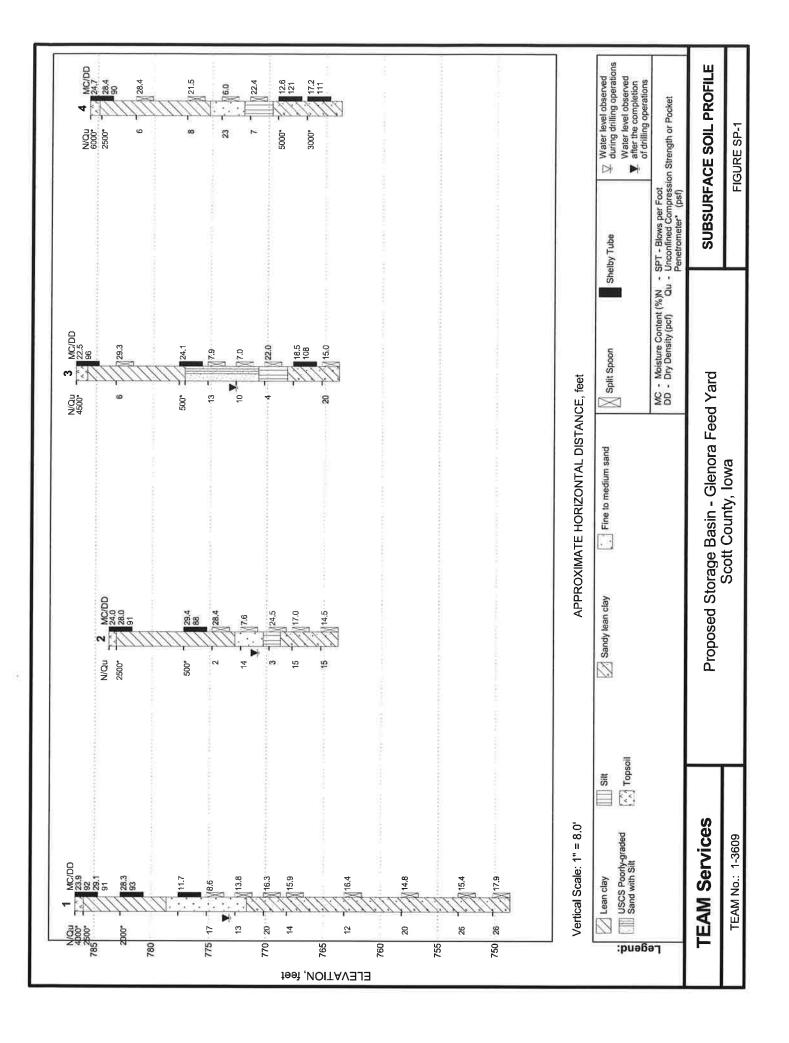
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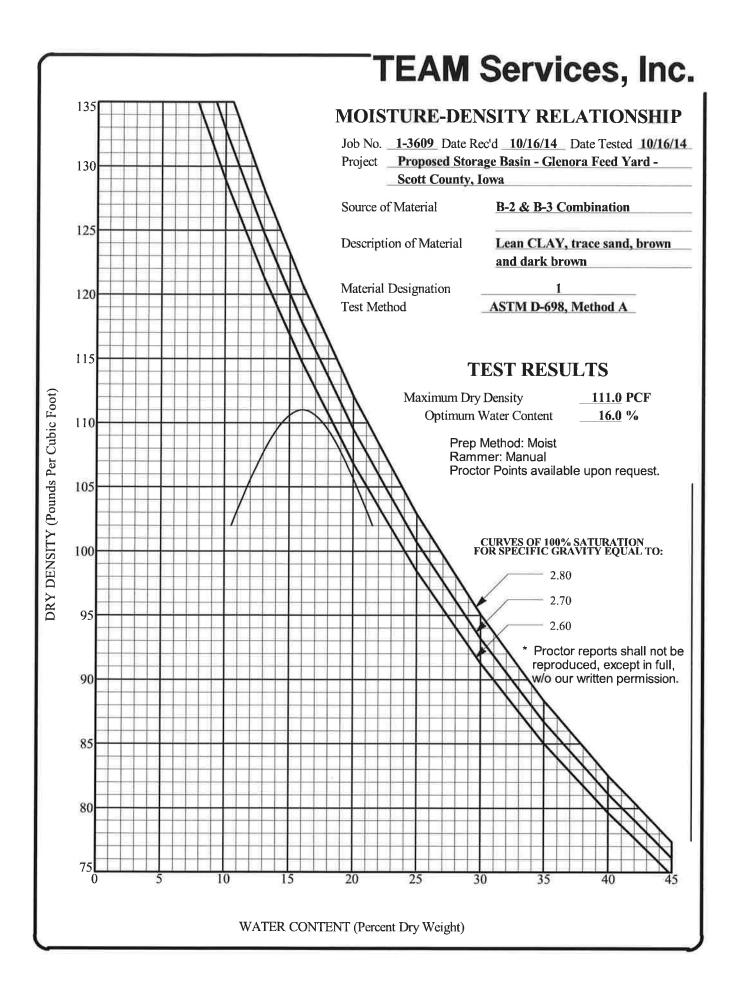
U			BO	RINC	G LC	G I	No. 7	7				Page 1 of
PR	OJECT Proposed Feed Lot	Expansion				S	SITE			New I	Liberty, IA	
GRAPHIC LOG	Approx. Surface Elevation (ft): 786. Site Datum: Drilling Method: HSA	.0	USCS SYMBOL	DEPTH (ft.)	NUMBER	SA	RECOVERY	SPT - N (BLOWS / FT.)	MOISTURE, %	DRY DENSITY (PCF)	STRENGTH (PSF)	OTHER S.
	DESCRIPTION Topsoil Lean CLAY, trace orga	anic	CL	0	1	AS	_		≥ 27		5	Sample frozen
7777	matter, brown 2.0 Loess Lean CLAY, brown and	784.0 gray,	CL		2	AS			25.4			Sample frozen
	medium stiff to stiff											
				5-	3	SS	16	10	26			
					4	ST	16		28.3	96	2000*	
	11.0	775.0		10 -	5	ss	18	3	29.2			
	Eolian Silty fine SAND, brown, medium dense		SM	1 8 N	6	SS	18	17	6.1			
	14.0 Loess SILT, yellowish brown, medium stiff	772.0	ML	15 -	7	SS	18	6	24.5			
	17.0 Glacial till Sandy lean CLAY, tr	769.0 race	CL	2						1		
	gravel, yellowish brown, stiff to ve stiff	ery		20 -	8	ss	18	15	15,5			
				25 - 18								
				0.5	9	ss	18	17	17.6			
				25 -			10					
	30.0	756.0		30_	10	SS	18	14	17.3			
	Bottom of boring											
Note	ne'											
-010										ated hand per I er Type : Ma		
						_						
	er Level:			1				L	Borin	g Starte	d: 2/18/22	
Vate ¥	None Ft. While Drilling	-TE/	ΥM-	6.	Ser	vin	ces	-	_	ig Compl	leted: 2/18/2	P2 Foreman: DC

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES; IN-SITU, THE TRANSITION MAY BE GRADUAL.

	BORING LOG No. 8 Page 1 of 1 ROJECT															
PR	OJECT	Proposed Feed Lot	Expansion				5	SITE			New I	Liberty, IA				
GRAPHIC LOG	Approx. Sur Site Datum: Drilling Met		9	USCS SYMBOL	DEPTH (ft.)	NUMBER	TYPE	RECOVERY	(BLOWS / FT.)	MOISTURE, %	DRY DENSITY (PCF)	LEST STRENGTH (PSF)	o THER			
	Tonsoi	DESCRIPTION Lean CLAY, trace orga	anic		0			-	E.	Σ	ā	5 **				
	matter,					1	AS			18.5			Sample frozen			
	Loess -	- Lean CLAY, yellowish b y, medium stiff	778.9 prown	CL									_			
					5-	2	ST	12	-	26.4	98	6000*				
						3	SS	18	7	28						
	11.0 Folian	- Silty fine SAND, brown,	770.9	SM	10 -	4	ST	14		29.4						
	mediun	i dense				5	SS	14	12	14.6						
	14.0 Loess -	- SILT, trace sand, brown	767.9 I, stiff	ML	15 -	6	ss	16	11	20						
	17.0 Glacial gravel.	till Sandy lean CLAY, tr yellowish brown, very stif	764.9 race f to	CL												
	hard	, , , , , , , , , ,			20 -	7	SS	18	18	13.4						
					25 -	8	ss	18	24	11.8						
	29.0		752.9		1 . N.											
	30.0 Bedrock	 Severely weathered ONE, yellowish brown, tely hard Refusal 	751.9		30 _	9	SS	4	50/4"	8						
Note	S:											ated hand pe				
Wat	er Level:									Borin		ner Type: Ma d: 2/19/22				
Ţ	-	Ft. While Drilling	_545/	MML	6	Sar	าเหมื	രക	-		-	leted: 2/19/2	22			
Ţ		Ft. After Drilling	Geotechr	Nical and	Construc	lion Mat	erial Co	onsultant	3	Rig:	ATV	1	Foreman: DC			
		Ft						_		Approved: NG Job #: 1-5112						

THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL AND ROCK TYPES; IN-SITU, THE TRANSITION MAY BE GRADUAL.







PERMEABILITY TEST RESULTS Falling Head (Method B)

Project Name:	Proposed Storage Basin - Glenora Feed Yard				
Project No.:	1-3609				
Sample:	1	Date Received:			
Sample Location:	B-2, B-3 Combination				
Test Started:	10/28/2014	Test Competed: 11/6/2014			
Test Procedure:	General accordance with ASTM D 5084 - 90 Falling Head (Method B)				
Sample Description:	Lean CLAY, trace sand, brown and dark brown				

INITIAL SAMPLE DATA

Wet Weight (g)	1268
Height (in)	5.58
Diameter (in)	2.875
Moisture Content (%)	16.0
Dry Unit Weight (pcf)	105.5

FINAL SAMPLE DATA

Weight (g)	1164.9
Height (in)	5.58
Diameter (in)	2.875
Moisture Content (%)	16.2
Dry Unit Weight (pcf)	105.5

TEST DATA

Elapsed Time (hr)	Initial	Final Head	Coefficient of Permachility Ir (am/a)
	Head (in)	(in)	Coefficient of Permeability, k (cm/s)
25.50	114.00	106.00	1.9E-07
19.25	114.00	112.88	3.5E-08
23.08	112.88	112.00	2.3E-08
71.17	112.00	108.88	2.7E-08
8.17	108.88	108.50	2.8E-08
15.83	108.50	107.88	2.4E-08
24.00	107.88	106.75	2.9E-08
24.00	106.75	105.75	2.6E-08
Average of last	4	readings	2.7E-08

Proctor Data			Remolded	Remolded Compaction			
Maximum Dry Density	111.0	pcf	Compaction	95.0	%		
Optimum Moisture	16	%	Moisture Deviation	0.0	%		

717 S.E. 6th St, Des Moines, IA 50309 (515) 282-8818 fax: (515) 282-8741 www.teamsvcs.com staff@teamsvcs.com Des Moines - Fort Dodge - Spirit Lake - Sioux Falls - Mason City - Cedar Rapids - Waterloo - Davenport

UNIFIED SOIL CLASSIFICATION SYSTEM

TEAM Services

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests ^A					Soil Classification	
					Group Symbol	Group Name ^e
Coarse-Grained Soils	Gravels More than 50% of	Clean Gravels Less than 5% fines ^c	$Cu \ge 4$ and $1 \le Cc \le 3^{E}$		GW	Well-graded gravel ^F
More than 50% retained on No. 200	coarse fraction retained on No. 4	Less than 5% thes	Cu < 4 and/or 1 > Cc > 3^{E}		GP	Poorly graded gravel ^F
sieve	sieve	Gravels with Fines More than 12% fines ^c	Fines classify as ML or MH		GM	Silty gravel ^{F, G, H}
		More than 12% lines*	Fines classify as CL or MH		GC	Clayey gravel ^{F, G, H}
	Sands 50% or more of	Clean Sands	$Cu \le 6$ and $1 \le Cc \le 3^{E}$		sw	Well-graded sand
	coarse fraction	Less than 5% fines [∈]	Cu < 6 and/or 1 > Cc > 3 ^E		SP	Poorly graded sand
passes No. 4 sieve	Sands with Fines More than 12% fines ^D	Fines classify as ML or MH		SM	Silty sand ^{G, H, I}	
		Fines classify as CL or CH		SC	Clayey sand ^{G, H, I}	
Fine-Grained Soils	50% or more passes Liquid limit less	inorganic	PI > 7 and plots on or above "A" line ^J		CL	Lean clay ^{K, L, M}
the No. 200 sieve			PI < 4 or plots below "A" line ^J		ML	Silt ^{K, L, M}
		organic	Liquid limit – oven dried	< 0.75	OL	Organic clay ^{K, L, M, N}
			Liquid limit – not dried			Organic silt ^{K, L, M, O}
	Silts and Clays	inorganic	PI plots on or above "A" line		СН	Fat clay ^{K, L, M}
Liquid limit 50 or more		Pl plots below "A" line		мн	Elastic silt ^{K, L, M}	
		organic	Liquid limit – oven dried	< 0.75	ОН	Organic clay ^{K, L, M, P}
			Liquid limit – not dried			Organic silt ^{K, L, M, Q}
Highly Organic Soils	Primarily organic mat	ter, dark in color, and orga	nic odor		PT	Peat

^A Based on the material passing the 3-in. (75-mm) sieve. ^B If field sample contained cobbles or

boulders, or both, add "with cobbles or

boulders, or both" to group name.

^c Gravels with 5 to 12% fines require dual symbols:

GW-GM well-graded gravel with silt GW-GC well-graded gravel with clay GP-GM poorly graded gravel with silt GP-GC poorly graded gravel with clay

D Sands with 5 to 12% fines require dual symbols:

> SW-SM well-graded sand with silt SW-SC well-graded sand with clay SP-SM poorly graded sand with silt SP-SC poorly graded sand with clay

For classification of fine-grained soils and fine grained fraction of coarsegrained soils.

Equation of "A" Line: Horizontal at PI = 4 to LL + 25.5. then PI = 0.73 (LL-20)

$$Cu = D_{60}/D_{10}$$
 $Cc = (D_{30})^2$
 $D_{10} \times D_{60}$

Е

F If soil contains > 15% sand, add "with sand" to group name. ^G If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM. ^H If fines are organic, add "with organic fines" to group name. If soil contains > 15% gravel, add "with gravel" to group name. If Atterberg limits plots in shaded area, soil is a CL-ML, silty clay.

 $^{\kappa}$ If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel",

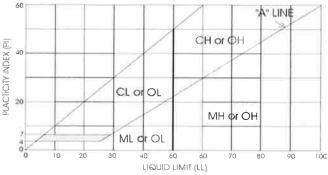
whichever is predominant.

[⊥] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.

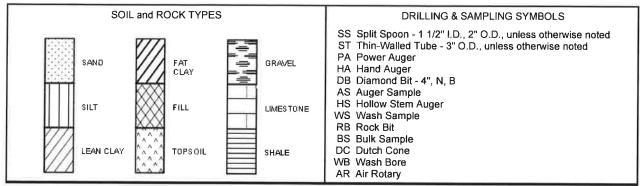
^M If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to $^{\circ}$ PI ≥ 4 and plots on or above "A" line. $^{\circ}$ PI < 4 or plots below "A" line.

P PI plots on or above "A" line.

^o PI plots below "A" line.



GENERAL NOTES



CONSISTENCY OF FINE-GRAINED SOILS (major portion passing No. 200 sieve)			RELATIVE DENSITY OF COARSE-GRAINED SOILS		
Consistency	Unconfined Compressive Strength, Qu, psf	N-Blows/ft* (Approx Correlation)	Relative Density	N-Blows/ft. *	
Very Soft	< 500	0 - 2	Very Loose	0 - 4	
Soft	500 - 1,000	3 - 4	Loose	5 - 10	
Medium	1,001 - 2,000	5 - 8	Medium Dense	10 - 29	
Stiff	2,001 - 4,000	9 - 15	Dense	30 - 49	
Very Stiff	4,001 - 8,000	16 - 30	Very Dense	50 - 80	
Hard	8,001 - 16,000	31 - 50	Extremely Dense	80 +	
Very Hard	> -16,000	50 +			

* Standard "N" Penetration Blows per foot of a 140 pound hammer falling 30 inches on a 2-inch OD split spoon, except where noted.

RELATIVE PROPORTIONS OF SAND AND GRAVEL		RELATIVE PROPORTIONS OF FINES		GRAIN SIZE TERMINOLOGY	
Descriptive Term(s) (of components also present in sample)	o Dry Weight	Descriptive Term(s) (of components also present in sample)	Percent of Dry Weight	Major Component of Sample	Size Range
Trace With Modifier	< 15 15 - 29 > 30	Trace With Modifier	< 5 5 - 12 > 12	Boulders Cobbles	Over 12 in. (300 mm) 12 in. to 3 in. (300 mm to 4.75 mm)
WATER LEV	/ELS: WD = Whi	Gravel	3 in. to #4 sieve (75 mm to 4.75 mm)		
 Depth groundwater first encountered during drilling Groundwater level after 24 hours (unless otherwise noted, i.e. "AD" after drilling) 			Sand	#4 to #200 sieve (4.75 mm to 0.075 mm)	

TERMS DESCRIBING SOIL STRUCTURE						
Parting:	paper thin in size	fine sand or silt usually more or less ve				
Seam:	1/8" to 3" in thickness					
Layer:	greater than 3" in thickness	Interbedded:	composed of alternate layers of different soil types.			
Ferrous:	containing appreciable quantities of iron	Laminated:	composed of thin layers of varying color and texture.			
Well-Graded:	having wide range in grain size and substantial amounts of all intermediate sizes.	Slickensided:	having inclined planes of weakness that are slick and glossy in appearance.			
Poorly-Graded:	predominately one grain size or having a range of sizes with some intermediate sizes missing.	NOTE:	Clays possessing slickensided or fissured structure may exhibit lower unconfined strength than indicated above. Consistency of such soil is interpreted using the unconfined strength along with pocket penetrometer results.			

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY THE BOARD OF SUPERVISORS ON ______.

DATE

SCOTT COUNTY AUDITOR

RESOLUTION SCOTT COUNTY BOARD OF SUPERVISORS April 14, 2022 ADOPTING A RECOMMENDATION TO THE IOWA DEPARTMENT OF NATURAL RESOURCES TO APPROVE THE CONSTRUCTION PERMIT APPLICATION OF SIEVERS FAMILY FARMS LLC FOR THE EXPANSION OF AN EXISTING CONFINED ANIMAL FEEDING OPERATION IN SECTION 32 OF LIBERTY TOWNSHIP

BE IT RESOLVED by the Scott County Board of Supervisors as follows:

- Section 1. Sievers Family Farms LLC in the S ½ of NE ¼ of Section 32, T80N, R1E (Liberty Township) has submitted an application to the Iowa Department of Natural Resources (IDNR) for a construction permit for the expansion of an existing confined animal feeding operation at 26618 20th Avenue in unincorporated Scott County.
- Section 2. The Scott County Health Department and the Scott County Planning and Development Department have reviewed the construction permit application and the manure management plan and determined that both appear to be in compliance with the requirements of the Master Matrix, Iowa Code Section 459 and Iowa DNR rules.
- Section 3. The Scott County Board of Supervisors has determined that there are not any additional objects or locations not included in the application that are within the required separation distances, the soils and hydrology of the site appear to be suitable for the proposed expansion, and the applicant has adequate land for the application of manure originating from this confinement feeding operation available.
- Section 4. The Scott County Board of Supervisors published public notice of the receipt of said application, accepted written and electronic comments on the application and held a public hearing on March 31, 2022 during its regularly scheduled meeting to receive public comments on the application.
- Section 5. The Scott County Board of Supervisors will submit to the Iowa DNR the written reports it received from the Scott County Planning and Development and Health Departments on which its determination is based, and the documentation of publication of the required public notices. The Board will also submit all the written or electronic comments from the general public it received on this application.
- Section 6. The Scott County Board of Supervisors would recommend that the construction permit application of Sievers Family Farms LLC be approved based on its compliance with the requirements of the Master Matrix, Iowa DNR rules and Iowa Code regulations for such applications.
- Section 7. This resolution shall take effect immediately.

Item 6 3/29/2022



Planning & Development Scott County, Iowa

Email: planning@scottcountyiowa.gov Office: (563) 326-8643 Fax: (563) 326-8257 **Chris Mathias, Director**

Administrative Center 600 West Fourth Street Davenport, Iowa 52801-1106

To: Mahesh Sharma, County Administrator

From: Chris Mathias, Planning Director

Date: March 22nd, 2022

Re: Approval of sixty (60) day extension of Planning and Zoning Commission's recommendation for approval of the Final Plat of Joe Smith First Addition, a proposed three (3) lot residential subdivision located in SE ¹/₄ and NE ¹/₄ of Section 6 and SW ¹/₄ of the NW¹/₄ of Section 5, Pleasant Valley Township.

The Planning Commission unanimously recommended approval of the Final Plat of Joe Smith First Addition. The City of Bettendorf has also approved the subdivision. The applicant has submitted the request for a sixty (60) day extension to allow the appropriate documents to be submitted to Scott County

Staff would recommend that the Board of Supervisors approve a resolution extending the Planning and Zoning Commission's recommendation an additional sixty (60) days to allow the applicant more time to submit documents.

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY THE BOARD OF SUPERVISORS ON ______.

DATE

SCOTT COUNTY AUDITOR

RESOLUTION SCOTT COUNTY BOARD OF SUPERVISORS March 31, 2022

APPROVAL OF A SIXTY DAY EXTENSION OF THE PLANNING AND ZONING COMMISSION RECOMMENDATION FOR APPROVAL OF THE FINAL PLAT OF JOE SMITH FIRST ADDITION.

BE IT RESOLVED by the Scott County Board of Supervisors as follows:

- Section 1. The Scott County Planning and Zoning Commission recommended approval of the Final Plat of Joe Smith First Addition at the November 16, 2021 meeting.
- Section 2. Section 9-16.E. of the Scott County Subdivision Ordinance states the Board of Supervisors need to receive the Final Plat and all attachments required by Chapter 354 of the Code of Iowa within sixty days of the Planning Commission's recommendation.
- Section 3. The Scott County Board has already extended this 60 day deadline once before, on January 20th, 2022 and the applicant has submitted in writing a request to extend the Planning and Zoning Commission's recommendation for an additional sixty (60) days.
- Section 4. The Board of Supervisors hereby extends this time limit for the submittal of Joe Smith First Addition for an additional sixty (60) days.
- Section 5. This resolution shall take effect immediately.

Item 7 3/29/2022

Facility & Support Services

600 West Fourth Street Davenport, Iowa 52801 (563) 326-8738 (Voice)

(563) 328-3245 Fax



~ Our Promise: Professional People, Solving Problems, High Performance

March 14, 2021

TO: Mahesh Sharma County Administrator

FROM: Tammy Speidel, FMP Director, FSS

RE: Jail Roof Replacement

Mahesh,

As you are aware the EPDM membrane roof over the jail housing unit was heavily damaged in the storm on Saturday March 5, 2022. This roof area is approximately 19,300 square feet and we estimate that slightly over 75% of the roof was ripped from the underlying substrate there was additional damage to roof drains being pulled loose by the force of the membrane coming loose.

We had Economy Roofing on site on Monday March 7 to evaluate the situation. Both Economy and the County's insurance provider adjustor reached the same conclusion, that the roof is a total replacement and cannot be repaired.

Economy Roofing was able to assist with a temporary measure to at least hold the membrane back down. This involved the use of a crane and lifting several hundred sandbags to the roof to hold it in place as best as possible.

This is not a long term solution, and at this time, we are unsure of the extent that this will provide protection from any leaks with rain or melting snow.

Due to the emergent nature of the repair we reached out to Wold to obtain cost estimates and associated engineering costs, and again after discussing with the Risk Manager, I gave them approval to proceed.

Wold based their estimate on recent roof replacement projects that they have been involved in as well as reaching out contacts in the roofing industry and arrived at an estimated cost for replacement to be in the \$25.00 SF range or approximately \$482,500.00.

They provided the following information with regards to total anticipated replacement costs and architectural fees:

\$482,500 Estimated Construction Cost
\$ 24,125 Design Contingency (5%)
\$ 24,125 Construction Contingency (5%)
\$ 30,398 A/E Fee
\$ 8,852 Allowance for Additional Soft Costs (roof cores, thermal scanning, reimbursables etc.)
\$570,000 Estimated Total Project Cost Wold's fixed fee is based on the following calculation:

(Estimated Construction Cost + Design Contingency) x 6% = Total Fixed Fee plus reimbursable expanses

 $($482,500 + 24,125) \times .06 = $30,398$ plus reimbursable expenses.

I have authorized the Wold fee of \$30,398.00. Rhonda Oostenryk is working with the insurance provider to determine how they will proceed, I don't have the details on that as they are in ongoing discussions. We do know that the County as a \$100,000.00 deductible.

I will be available at the next Committee of the Whole for discussion.

CC: Sheriff Lane Major Bryce Schmidt Captain Stefanie Bush Rhonda Oostenryk, Risk Manager FSS Management Team

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY THE BOARD OF SUPERVISORS ON

DATE

SCOTT COUNTY AUDITOR

RESOLUTION

SCOTT COUNTY BOARD OF SUPERVISORS

March 31, 2022

A RESOLUTION APPROVING THE CONTRACT FOR ARCHITECTURAL SERVICES FOR THE REPLACEMENT ROOF AT THE SCOTT COUNTY JAIL WITH WOLD ARCHITECTS AND ENGINEERS IN THE AMOUNT OF \$30,398.00 PLUS REIMBURSABLE EXPENSES.

BE IT RESOLVED BY the Scott County Board of Supervisors as follows:

- Section 1. That the contract for architectural services for the replacement roof at the Scott County Jail with Wold Architects and Engineers in the amount of \$30,398.00 is hereby approved.
- Section 2. That the Facility and Support Services Director is hereby authorized to sign the contract on the Board's behalf.
- Section 3. This resolution shall take effect immediately.

Facility & Support Services

600 West Fourth Street Davenport, Iowa 52801 (563) 326-8738 (Voice) (5

(563) 328-3245 Fax



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March 15, 2022

- TO: Mahesh Sharma County Administrator
- FROM: Tammy Speidel, FMP Director, Facility & Support Services
- RE: Jail Sewage Grinder

Mahesh

As we discussed previously, FSS was contacted by the City of Davenport with regards to some sewer work they were performing in the downtown 4th Street area, downline of the Jail sewer line. They indicated that they were pulling items from the sewer that they believe originated from the jail.

We immediately called for service on the sewer grinder, as the previous failure of that equipment resulted in raw sewage flooding the Sheriff, IT and common areas of the lower level of the courthouse and a large claim through Risk Management for mitigation and repairs.

It was determined that the grinder cartridge assembly, which is the part that does the grinding of materials entering from the jail into the city sewer was in need of repair.

Although we reached out to several vendors we only received two bids back for this work as listed below:

Modern Piping\$16,157.75Ragan Mechanical\$21,009.46

Due to lead time on the parts needed for repair and potential impact to the Courthouse we authorized the low bidder, Modern Piping to proceed with ordering the parts needed on an emergency basis. We have worked with Modern Piping before and they have performed well for us.

This purchase will be funded from the Jail General Remodeling and Replacement line item of FY 22 Capital Plan.

I will be at the next Committee of the Whole to answer any questions that you or the board may have.

CC: FSS Management Team Major Bryce Schmidt Captain Stefanie Bush

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY THE BOARD OF SUPERVISORS ON

DATE

SCOTT COUNTY AUDITOR

RESOLUTION

SCOTT COUNTY BOARD OF SUPERVISORS

March 31, 2022 A RESOLUTION APPROVING THE REPAIR COST FOR THE JAIL SEWAGE GRINDER TO MODERN PIPING IN THE AMOUNT OF \$16,157.75.

BE IT RESOLVED BY the Scott County Board of Supervisors as follows:

Section 1. That the repair costs for the jail sewage grinder by Modern Piping in the amount

of \$16,157.75 is hereby approved.

Section 2. This resolution shall take effect immediately.

Item 09 3/29/2022

HUMAN RESOURCES DEPARTMENT 600 West Fourth Street Davenport, Iowa 52801-1003

Ph: (563) 326-8767 Fax: (563) 328-3285 HR@scottcountyiowa.gov



Date: March 22, 2022

To: Mahesh Sharma, County Administrator

From: Mary J. Thee, Human Resources Director/Asst. County Administrator

Subject: Policy Updates

The proposed update in administrative policies have been distributed to the Department Heads/Elected Officials and is recommended for approval by the Board of Supervisors.

Policy H - Employment Records is being updated to address the transition from paper to electronic personnel files. This is the culmination of a multi-year project to digitize all personnel records and improve access to staff. Future correspondence to staff will provide additional information about access.

Policy I - Hours of Work is modified to increase the incentive pay to Field Training Officers in the jail and creates some internal equity. Additionally it clarifies the need of all staff to certify or affirm their timesheets.

Policy N - Unpaid Leave of Absence is updated to clarify that although occasional unpaid days of work occur that approved unpaid leaves are consecutive in nature. It addresses the occasional extension may be granted as an ADA accommodation. Additionally addresses potential sporadic leaves to serve to attend official meetings when serving as an elected member of the body.

Policy U - Separation of Employment reemphasizes that once notice of separation is given that staff are expected to assist in transition and not utilize leave banks.

Policy 34 - Technology Use addresses recent changes in policy to address evolving security needs such as lengthening passwords to obtain additional security of accounts and needs for occasional multi-factor authentication from personal devices.

GENERAL POLICY

It is the policy of Scott County that records (paper or electronic) containing information relevant to the employment history of each County employee be maintained in the County Human Resources Department electronic filing system.

SCOPE

This policy is applicable to the following:

All employees responsible to the Scott County Board of Supervisors;

All employees responsible to a County elected office holder providing the appropriate elected office holder and the Board of Supervisors have certified its applicability;

All employees not directly responsible to either the Board of Supervisors or an elected office holder and whose governing body and the Board of Supervisors have certified its applicability.

Whenever the provisions of this policy are in conflict with the Code of Iowa, or with a collectivelybargained agreement between the County and a certified bargaining unit, the provisions of the collectively-bargained agreement and/or the Code of Iowa will prevail.

CONFIDENTIALITY OF EMPLOYMENT RECORDS

All employee records maintained in the Human Resources Department shall be considered confidential, subject to the limitations of state law, and access will be limited only to those who have a job-related need to know the information and who have been authorized to see the file in question. An employee shall have access to review and copy their personnel file subject to the limitations of state law. Personnel files may not be taken outside of the Human Resources Department and must be viewed in the presence of Human Resources staff, including managers and supervisors. Request to view a personnel file shall be made electronically, and if appropriate per this policy, Human Resource will grant electronic access for 7 days.

RECORDS TO BE MAINTAINED

Employment records to be maintained on County employees include in their personnel file include but are not limited to:

theall application or resumematerial submitted by the employee as an applicant for County employment;

DRAFT for discussion purposes

- <u>any</u> offer of employment correspondence;
- records of policy information given to employee;
- employment tests, ;Additional information such as reference checks, information relevant to a background investigation and other information relevant to the selection of the employee shall be maintained in the recruitment records for two years after the selection date;
- all Human Resource transactions personnel actions pertaining to the employee such as hiring and termination papers, change in job classification, change in salary, request for leave of absence, or any other records related to compensation of the employee.
- performance evaluations;
- commendations and awards;
- disciplinary actions or performance improvement plans;
- certificates or degrees indicating completion of special training;
- current address, phone number and person to contact in case of an emergency;
- other pertinent employee data as appropriate.

Other employment records are kept in separate files, such as <u>records_documents</u> relating to EEO records, medical conditions (including documentation of a physical or psychological exam if required as part of the hiring process<u>or doctors notes</u>), drug testing records, leave requests, records relating to investigations, <u>payroll_records_</u> and records relating to I-9 requirements. <u>Human Resources will also maintain separate electronic records related to employee benefits.</u> These records may be subject to different record retention schedules pursuant to federal law.

A supervisor may keep records related to an individual employee to track work in progress and performance related information, and typically includes documents of ongoing work such as notes of conversations, assignments, and status reports. <u>Supervisors shall not create or maintain duplicate files of personnel files. Any medical documents delivered to supervisors, such as return to work notes, should be scanned to Human Resources for inclusion in medical file and immediately shred. The supervisor's records shall be delivered to the Human Resources Department upon termination of the employee for proper record retention.</u>

DESTRUCTION OF RECORDS

Employment records of regular County employees shall be kept for three-five years following termination of employment and then destroyed. Records may be retained for a longer time

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period, <u>as examples</u> if it is subject to a litigation hold<u>or the employee is rehired in the succeeding</u> <u>five years</u>.

DISPUTING INFORMATION

Employees who question the accuracy or completeness of information in their files should discuss their concerns with the Human Resources Director. The Human Resources Director will consider the objections and remove erroneous information. Should the disputed information be retained in the file, the employee may submit a brief written statement identifying the alleged errors or inaccuracies. The statement will remain in the file as long as the disputed information is retained.

Draft for discussion purposes only I. HOURS OF WORK

GENERAL POLICY

It is the policy of Scott County to schedule a normal work week for County employees.

<u>SCOPE</u>

This policy is applicable to the following:

All employees responsible to the Scott County Board of Supervisors;

All employees responsible to a county elected office holder providing the appropriate elected office holder and the Board of Supervisors have certified its applicability;

All employees not directly responsible to either the Board of Supervisors or an elected office holder and whose governing body and the Board of Supervisors have certified its applicability.

Whenever the provisions of this policy are in conflict with the Code of Iowa, or with a collectivelybargained agreement and/or the Code of Iowa will prevail.

NORMAL WORK SCHEDULES

The normal work week for full-time County employees shall be forty (40) hours. Normally, the forty (40) hours will consist of five (5) eight-hour days; however, variations to this schedule may be allowed pursuant to departmental operating needs and in the best interest of an efficient, effective operation. For payroll purposes the date the shift begins is considered the workday.

Full-time office personnel will generally work eight (8) hours per day, Monday through Friday between the hours of 8:00 a.m. and 4:30 p.m. unless otherwise specified by the department head.

The normal work week for part-time employees shall be established by the appropriate department head pursuant to departmental operating needs and the number of work hours budgeted for such part-time positions.

Variations to "normal" work schedules are encouraged to the extent that they serve departmental operating needs and the best interests of an efficient, effective operation. It shall be at the discretion of the Department Head to implement flexible work schedules, which may include: flextime, compressed work weeks, job sharing, or other alternatives. In no event shall the implementation of a flexible work schedule cause overtime pay or adversely affect the public service hours of the County operations. Department Heads shall discuss options with the Human Resources Department when contemplating the implementation of or a change in flexible work hours.

Draft for discussion purposes only CONTINUOUS OPERATIONS

Employees engaged in continuous operations are defined as those employees working in an activity for which there is regularly scheduled work seven (7) days per week, twenty-four (24) hours per day. Because of the operating needs of such continuous operations, it is understood that other scheduling arrangements outside of those described in the section immediately above may be necessary. Any such work schedules shall be developed in the best interest of an efficient, effective operation.

All employees engaged in continuous operations (and not covered by a CBA) will be eligible to receive shift differential for all hours worked during the afternoon or evening shifts. However departments engaged in continuous operations where non-represented employees are regularly scheduled to work 12 hour shifts, only the second (a.k.a. evening shift) will be eligible to receive shift differential. The amount of the differential shall be \$0.50 per hour to compensate for the shift work. Supervisors shall receive the same shift differential as the employees they supervise.

An employee serving as a Field Training Officer (FTO) shall receive a pay differential of <u>one-two</u> dollars (\$<u>2</u>1.00) an hour for each hour such duties are actually performed. In order to qualify the FTO must have been through a sanctioned training program approved by the department head and HR Director.

<u>12 - HOUR SHIFT ASSIGNMENTS</u>

Employees who are regularly scheduled to work seven-12 hour shifts in a two-week pay period will accrue vacation, sick leave, holidays, floating holidays and other paid leaves of absences based on a 2,184 hour per year schedule pursuant to applicable policies. This accrual schedule is intended to reflect the additional straight time hours worked above a normal 2,080 hour per year employee.

MEAL AND BREAK PERIODS

Full-time employees will normally be granted an unpaid meal of up to one half (1/2) hour in duration each work day. Normally, the meal period will be scheduled near the middle of the work day. In the event an employee would be expected to have meals frequently interrupted for duty purposes, the meal period may be considered a part of the employee's paid regular shift.

To the extent possible, and in consideration of departmental staffing needs, employees may be granted two (2) fifteen (15) minute paid break periods during each eight-hour work day as scheduled and approved by the department head. Break periods are normally scheduled near the middle of each half shift and are intended as a relief from the work routine. As such, they may not be saved or combined to extend the meal period or shorten the work day.

ADMINISTRATIVE PROCEDURES

 <u>Employees are required to certify or affirm the accuracy of their</u> timesheets through the timekeeping system (i.e. via Novatime submission/time off requests, time clock submission or combination). The timesheet reflects actual

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hours worked whether regular, overtime, compensatory time, or approved leave time submitted through Novatime requests, in order to for the Auditor's Office to produce an accurate pay advice less customary payroll deductions. Employees absent from work at the conclusion of a pay period are encouraged to submit the timesheet prior to leave or certify upon return. The Auditor's Office will coordinate any specific departmental procedures in Novatime or time clocks with Departments to obtain employee electronic certification or affirmation. All County department Heads/Elected Officials or their designee are responsible for signing off electronically on departmental employee certified payroll documentation to the Auditor's office bi-weekly in order for the Auditor's office to produce accurate pay advices compliant with the Fair Labor Standards.

- 1.2. In consideration of an employee's off-duty interests and obligations, departments are encouraged to give advance notice of at least one (1) calendar week prior to changing an employee's regular work schedule. This provision does not apply to emergency situations requiring a temporary change in work schedules.
- 2. Employees are encouraged to complete their duties within their regularly scheduled work period. Employees eligible for overtime compensation must receive approval from their supervisor prior to working overtime hours.

N. UNPAID LEAVE OF ABSENCE

GENERAL POLICY

It is the policy of Scott County to grant unpaid leaves of absence to its employees when the requests are compatible with a department's operational needs and scheduling requirements. Non-probationary employees may request an unpaid leave of absence for public service leave and for extenuating medical circumstances. Probationary employees may request an unpaid leave of absence for previously scheduled commitments and extenuating medical circumstances.

SCOPE

This policy is applicable to the following:

All employees responsible to the Scott County Board of Supervisors;

All employees responsible to a county elected office holder providing the appropriate elected office holder and the Board of Supervisors have certified its applicability;

All employees not directly responsible to either the Board of Supervisors or an elected office holder and whose governing body and the Board of Supervisors has certified its applicability.

Whenever the provisions of this policy are in conflict with the Code of Iowa, or with a collectively-bargained agreement between the County and a certified bargaining unit, the provisions of the collectively-bargained agreement and/or the Code of Iowa will prevail.

ADMINISTRATIVE PROCEDURES

1. An employee desiring an unpaid leave of absence shall make a written request to his/her department head, setting forth the reason(s) for the request and the duration of the requested leave.

A request for an unpaid leave of thirty <u>consecutive calendar</u> days or less will be approved or disapproved promptly by the department head.

A request for an unpaid leave of more than thirty <u>consecutive calendar</u> days will be forwarded with <u>recommendation any comments</u> by the department head to the Human Resources Department. The Human Resources Director will transmit any request not required by state or federal law with recommendations to the Board of Supervisors for a final decision. <u>Generally</u> In no event shall unpaid leave, under the provision of this policy, <u>will not</u> be

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approved for more than six months by the Board of Supervisors. <u>The Human</u> <u>Resources Director may recommend an extension in cases of a reasonable</u> <u>accommodation pursuant to the ADA.</u>

- 2. Upon return from an unpaid leave of absence, Scott County will attempt to place the employee in his/her former position at the salary and step occupied at the time such leave began; provided however, that the employee is able to perform the essential functions of his/her position. In the event the former position is not available or the employee is not able to perform the essential functions, Scott County will attempt to place the employee in another position consistent with qualifications, ability, and staffing requirements. At no time will employees utilizing this policy be guaranteed a position upon return from an unpaid leave of absence.
- 3. When an employee fails to return to work from an unpaid leave of absence on the date specified in the request, the County –shall regard this as the employee's resignation, unless a written request for extension has been submitted by the employee, recommended by the department head, and approved by the Board of Supervisors prior to the expiration.
- 4. While on an unpaid leave of absence, an employee shall not be eligible for fringe benefits, including holiday pay, sick leave credits, vacation leave credits or the recognition of seniority during the period of such leave, <u>unless required by law</u>. Employees must pay the COBRA group health and life insurance premium rates once the unpaid leave of absence exceeds thirty (30) calendar days unless the employee is on approved FMLA leave or requests that the coverage be discontinued. The Human Resources Department will notify the employee of their COBRA rights.
- 5. In considering an employee's request for an unpaid leave of absence, the department head shall require the employee to use available <u>paid leave</u> vacation, floating holiday and/or compensatory time accruals prior to being placed on leave without pay.
- 6. Public Service Leave. Any request for a leave of absence related to a political candidacy or public service shall comply with state law. Once sworn into office an employee may request an unpaid leave of absence to attend official meetings of the elected body. An employee seeking elected public office is prohibited from campaigning in any manner during work hours. Failure to observe this condition may result in disciplinary action, up to and including dismissal.

U. SEPARATION OF EMPLOYMENT

GENERAL POLICY

This policy is intended to cover Scott County's procedures related to termination of employment due to retirement, resignation or layoff.

<u>SCOPE</u>

This policy is applicable to the following:

All employees responsible to the Scott County Board of Supervisors;

All employees responsible to a county elected office holder providing the appropriate elected office holder and the Board of Supervisors have certified its applicability;

All employees not directly responsible to either the Board of Supervisors or an elected office holder and whose governing body and the Board of Supervisors have certified its applicability.

Whenever the provisions of this policy are in conflict with the Code of Iowa, or with a collectively-bargained agreement between the County and a certified bargaining unit, the provisions of the collectively-bargained agreement and/or the Code of Iowa will prevail.

RETIREMENT

There is no mandatory retirement age for employees in the County service except for employees who serve in the capacity of a sworn peace officer. In accordance with Chapter 97B of the Code of Iowa, employees who serve in the capacity of a sworn peace officer shall be retired prior to reaching the age of sixty-six (66). A regular employee who intends to retire his/her employment with the County pursuant to Policy P is encourage to provide the department head with as much advance written notice as possible in order to assist in an orderly transition of duties and staff.

RESIGNATION

A regular employee who voluntarily terminates his/her employment with the County is required to provide the department head with advance written notice of at least two (2) calendar weeks to ensure an orderly transition of staff.

Upon tendering their resignation or retirement notice, the employee shall remain in active employment without access to unused leave accruals. Exceptions to this rule may be

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approved by the department head depending on the nature of the request and the operational needs of the department. Employees shall not be permitted to use paid leave to extend employment for the sole purpose of extending benefits. <u>Unless on extended</u> <u>medical leave, e</u>Employees <u>must are expected to physically be at the worksite on during</u> their final two weeks day of employment to assist in transition of work assignments.

The County has the option of shortening the time period of a resignation/<u>retirement</u> notice if adequate staffing needs can be achieved <u>or individual attempts to extend leave merely</u> for purpose of extending benefits.

LAYOFF

The Board of Supervisors reserves the discretion to determine the necessity for and implementation of a layoff in the County workforce due to lack of funds or abolishment of the service or job function.

All temporary, seasonal and/or probationary employees working in the classification designated for layoff shall be laid off prior to the layoff of regular, non-probationary employees. Consideration will then be given to seniority and job qualifications. In addition to seniority, the criteria for retaining employment during a staff reduction will be as follows:

- 1) The job itself is necessary for conducting business in an efficient manner.
- 2) The employee possesses the skills needed to perform the required job function.
- 3) The employee has appropriate seniority available.

All employees affected by a layoff shall be given written notice with as much advance notice as possible, but not less than 30 days prior to the effective date of removal. An employee subject to a layoff notice will be afforded reasonable time off work to seek employment elsewhere. Less than 30 days <u>of</u> notice may be provided in case of a catastrophic event or natural disaster that results in the need to shut down operations or layoff staff.

Employees subject to layoff may be recalled into the former position within one year of the effective date of the layoff notice. The order of recall shall be based on the employee's years of service in the recalled position. Employees shall be given a reasonable time to return to work. If an employee was laid off from a full-time position and is recalled to a part-time position, the person can accept or decline the position and remain on recall for a full-time position. After recall the employee will be paid at the same rate of pay before the layoff including other pay adjustments for which the employee would have been eligible while on layoff.

Employees subject to a layoff are encourage to seek other County wide employment when available and managers are encouraged to give due consideration to their applications subject to qualifications.

U-2

ADMINISTRATIVE PROCEDURES

- 1. The department head or designee shall be responsible for entering a Personnel Action upon notice of termination in order to notify appropriate departments of the need to deactivate access to any computers, technology or buildings.
- 2. The Human Resources Department are available to assist an employee upon notice of retirement, resignation, layoff or dismissal in order to provide the employee with information regarding termination of benefits and to discuss related employment concerns.

2.3.

3. The department head or designee is responsible for retrieving all County property from the separating employee before the end of the final day of work. The department head or designee should review a departmental list of assigned equipment, keys and uniforms to assure proper return of property. Property specifically assigned and receipt acknowledged by the employee may be deducted from the final paycheck if not returned. If this is the case, the department head or designee should consult with Human Resources who will advise Payroll on any proper withholdings.

34. TECHNOLOGY USE POLICY

POLICY

The Scott County Board of Supervisors authorizes the use of computers / Internet / intranet / e-mail / text messages / telephone system / voice mail / fax transmittals (collectively "technology") for the support of all the County tasks. It is expected that individuals will use technology to improve their job knowledge, access business related information and communicate with peers in other governmental agencies and the private sector. Employees shall not use technology inconsistent with the mission of Scott County. Every employee has a responsibility to maintain and enhance the public image of the County, and to use technology in a productive manner. The purpose of this policy is to outline accessibility and usage of technology. Guidelines are provided for in this policy to ensure that all employees are responsible, productive technology users and are protecting the public image of the County.

<u>SCOPE</u>

This policy is applicable to all employees, offices, and departments within Scott County Government.

ADMINISTRATIVE PROCEDURES

- 1. Access Request: A user and the user's department head (or designee) must complete and sign a Technology Services Use Request shown as Attachment A and return it to the Information Technology Department (IT) in order for a username to be assigned and to ensure access to the Internet or technology is allowed with a County owned account. <u>The employee email name will follow</u> their social security card format of firstname.lastname, unless there is a compelling reason otherwise. Any modifications should be requested by the Department Head or Elected Official and approved by IT and HR Directors.
- 2. Password/Pass Phrase: Employees are responsible for the selection and security of account password(s). Passwords will be at least <u>twelveeight</u> (<u>128</u>) characters in length and should consist of a combination of upper and lower case letters, numbers or <u>symbolsspecial characters</u>. Employees <u>may not reuse passwords and should notavoid useing variations of the user login or the same password as other accounts, especially personal accounts</u>. Employees will be required to change the login password every 120 days. Employees will be unable to repeat the previous three passwords. Passwords shall not be shared with others or left in plain sight.

- 3. Remote Access: An employee that is classified as exempt pursuant to the Fair Labor Standards Act may access a County account from a remote location other than the site designated for that account (e.g., teleworking or checking email while away from the office on business) only with approval of the employee's department head and only for County business. Non-exempt employees are prohibited from forwarding their County account to a personal accountmonitoring emails outside of approved work hours.
- 4. Signature Line: The employee signature line at the bottom of every e-mail message shall include the user's name, title, department and telephone number. The signature line may include the County webpage_or, employee departmental fax number. Any other tags must be approved in advance by the Department Head or Elected Official, or one of the tags attached hereto as Attachment B. The signature line is to remain professional and not include superfluous items. An employee may include a professional photo of them in their email that has been approved in advance by the Department Head or Elected Official. The photo shall be of themselves, not a candid shot or selfie and have a professional tone.
- 5. Security Scans: The Information Technology Department shall purchase security hardware/software or contract for such services to minimize the potential of malicious files reaching the County network and to reduce the number of spam e-mails. USB Flash drive usage is prohibited unless specifically authorized by your department head.
- 6. Compliance Review: Violations of the Technology Use Policy will be evaluated on a case-by-case basis by the department head, IT Director and Human Resources Director. Violations may result in disciplinary action, and may include referral of a case to the appropriate authorities for civil or criminal prosecution.
- 7. Random Audits: The Information Technology Department may make random internal audits of technology use.
- 8. Web Page: Development of a website or home page for department purposes must be made through the Information Technology Department and the County Webmaster to ensure a uniform County web presentation.

I. GENERAL POLICIES

A. Permitted Use

The County expects employee use of County technology for business purposes. The County recognizes, however, that employees may, from time to time, use County technology, including the internet and e-mail, for personal use during working hours. Such personal use is permitted provided (1) it does not interfere with the performance of the

employee's job duties and obligations; and (2) it does not violate this policy or any other County policy; and (3) it does not interfere with the operation of County technology; and (4) it does not incur additional expense for the County. Non-exempt employees are prohibited from accessing County accounts including Outlook outside of their authorized working hours. Additionally the County anticipates some incidental use of personal technology for business purposes. On occasion an employee may be required to verify their identity by receiving a text message, phone call or code generated from a County recommended application. The County does not expect this incidental use to incur any additional expenses for the employee.

B. Right and Ability to Monitor

All technology, including the e-mail system, are the property of the County. All electronic data and information, including electronic messages, on or within County technology are the property of the County. All messages sent through electronic means are public records unless otherwise provided by the Iowa Open Records Act (Chapter 22). The County (or its designated representatives) maintains the right and ability, with or without notice to the employee, to access and review any information contained on County technology, even if protected by private password. Those individuals using County technology have no expectation of privacy in connection with the use of such technology or transmission, receipt, or storage of information through the use of such technology. The County specifically reserves the right to monitor all internet usage, cellular device usage and e-mail either composed or received in the e-mail system. It is possible that email sent from the County can be intercepted; therefore the user should not expect any degree of privacy regarding e-mail messages of any type, including e-mail messages sent or received through a County e-mail account or through a private web-based e-mail account accessed using County technology. Email requiring privacy for any reason including regulatory compliance should be sent/received using end to end encryption as provide by Information Technology.

C. Record Retention

The IT Department will maintain a copy of all emails sent or received for a period of five (5) years from the date in which they are sent or received, Records may be retained for a longer time period if it is subject to a litigation hold.

II. PROHIBITED USES

The following uses are strictly prohibited:

• Excessive personal use of County technology.

• Using technology to engage in any conduct that violates any federal, state or local law, or any of the County policy, including but not limited to, using County technology to engage in any form of accessing or transmitting through County technology materials viewed as harassing, offensive, obscene or pornographic.

• Engaging in any political activities.

• Revealing your account password(s) to others or allowing use of your account(s) by others, <u>including co-workers or</u>. This includes family and other household members when work is being done at home.

• Any commercial use or any use for personal gain.

• Obtaining and/or using another user's passwords.

• Attempting to gain access to files and resources to which you have not been granted permission.

• Making copies of another user's files without their knowledge and consent.

• Stealing, vandalizing or obstructing the use of computing equipment, facilities, or documentation.

• Installing non-work related software on your County computer without the express consent of the Information Technology Department.

• Sending unsolicited e-mail messages, including the sending of "junk mail" or other advertising material to individuals who did not specifically request such material (email spam).

• Posting, uploading, or downloading of inappropriate messages, photos, images, symbols, sound files, text files, video files, newsletters, or related materials.

• Violating the rights of any person or company protected by copyright, trade secret, patent or other intellectual property, or similar laws or regulations, including, but not limited to, the installation or distribution of "pirated" or other software products that are not appropriately licensed for use by the County. In order to protect the County from copyright infringement penalties, only software purchased by the County shall be operated on County owned computer hardware.

• Unauthorized copying of copyrighted material including, but not limited to, digitization and distribution of photographs from magazines, books or other copyrighted sources, copyrighted music, and the installation of any copyrighted software for which the County or the end user does not have an active license.

• Exporting software, technical information, encryption software or technology, in violation of international or regional export control laws.

• Introducing malicious programs into the network (e.g., viruses, worms, Trojan horses, malware, spyware, etc.).

• Utilization of technology outside of authorized work hours for non-exempt employees.

This list is by no means exhaustive, but attempts to provide a framework for activities which fall into the category of unacceptable use of County technology. Any employee who uses County technology in an inappropriate manner will be subject to discipline, up to and including discharge. Further, any employee aware of any activity by another employee that violates this policy is required to notify their department head and the Information Technology Department immediately. If you are unsure as to an item's appropriateness, consult the Information Technology Department or Human Resources Department.

III. TELEWORK PROCEDURES

It is important for county staff to perform work at the established worksite in order to serve the public and fellow staff members. Most County positions do not lend themselves to telework arrangements and require a physical presence at the worksite. The ability to telework is at the discretion of the Department Head/Elected Official and based on ability to perform the majority of duties remotely. Telework does not modify the job duties listed in the employee's job description or their pay rate, but may result in supplemental duties of an equal or lower pay rate. Telework may be offered on a temporary or intermittent basis, and may be discontinued at any time at the discretion of the Department Head/Elected Official.

Teleworking allows an employee to work from home or in an approved satellite location for all or part of the employee's regular work week. Employees and the Department Head/Elected Official must sign the County's telework agreement attached hereto. Any violations of the parameters set forth in the telework agreement are subject to disciplinary action up to and including termination.

Telework may be an option discussed as a reasonable accommodation through discussions with Human Resources and the Department Head/Elected Official when there is a disability.

An employee on an approved telework agreement must remain available to come to the County worksite within a departmental established time period, if a business need arises. The employee is still expected to request vacation for time off and report any illness and utilize sick leave if unable to perform duties or attending medical appointments.

The Information Technology Department will work with the department to provide necessary technology to perform work remotely. The Information Technology Department will address requests on a case by case basis and may deny the remote use of some equipment. The telework agreement shall list specific equipment and employee responsibility for said equipment. All equipment used remotely shall be specifically assigned to the employee and if not returned upon request or termination, the replacement value shall be deducted from the employee's paycheck. The County will not pay for any internet access required by an employee to perform work remotely. Employees may not utilize a public WIFI connection that isn't utilizing VPN to access county laptops or computers.

Any employee approved for telework that has access to confidential information or HIPPA protected information shall set forth in the telework agreement what arrangements are taking place at the remote worksite to address protection of said information. Confidential or HIPPA related information shall not be performed on personal electronic equipment or utilizing a public WIFI connection that isn't using a VPN connection.

Non-exempt employees that are permitted to telework should only perform work during authorized work hours. Supervisors are responsible for monitoring telework activities pursuant to FLSA standards, as not to create a compensable work event outside of authorized and pre-approved overtime. Additionally supervisors are responsible for

assuring productivity of the employee, setting expectations and having regular appointments to discuss work related activities.

IV. COUNTY SOCIAL MEDIA USE

Social media refers to online tools and services that allow any Internet user to create and publish content. Many of these sites use personal profiles where users post information about themselves. The "social" in social media comes in as these individuals find others with similar interests and interact with them through online communities. Social media allows for the easy sharing and re-purposing of existing content, expanding the reach of your work and enabling others to share it with their friends and networks. Examples of social media services include Facebook, Twitter, LinkedIn, Pinterest, Snapchat, Instagram, blogs, YouTube and Flickr.

The County recognizes that social media use is an important tool to communicate with citizens and hear directly from them. These "conversations" are what makes social media so different from traditional forms of communication. As such many County departments and programs utilize official social media presences, similarly branded to communicate that the information they are communicating is official and reliable. Scott County seeks a unified approach to utilization of social media sites by its departments and elected officials. Social media sites should be reflective of the County's website and other marketing tools.

Access to social media networks from within the County's IT infrastructure is limited to individuals performing official County business and to agencies or departments with sufficient information and technology security controls.

Employees who <u>post on behalf of a County department</u> must adhere to the following policies:

• Departments shall only utilize County endorsed social media networks for hosting official County social media sites.

• Employees shall not create social media sites without authorization of the appropriate department head or board/commission with departmental oversight and consultation with the County's Webmaster.

• Departments with social media sites should assign an employee(s) to be responsible for the content and keeping the information relevant, current and compliant with the comments policy. The County's PIO and Webmaster should be added as administrators on any social media site in order to be able to address immediate concerns.

• Whenever possible social media sites should link back to the County's website.

• Employees responsible for social media sites should respect the County's "collective voice" by remaining professional in tone, complying with this and other county policies and exercise good taste.

• IT shall provide appropriate security access to social media networks to individuals performing official County business within the scope of this policy.

• Employees participating in social media sites shall limit the amount of time spent attending to department's social media presence to what is needed to post content, evaluate traffic data, review related sites and monitor comments.

• Any articles or documents posted are subject to Iowa Public Records laws. Users shall be notified that public disclosure requests must be directed to the relevant department.

Any County social media site in which the department permits public comments should contain the following language: "Use of this site is subject to the County's Social Media policy and its user guidelines."

The following language governs all public comments on social media sites. It will be posted on the County's website and social media site:

"The purpose of this site is to present matters of public interest in Scott County to its many residents, businesses and visitors. We encourage you to submit your questions, comments, and concerns, but please note this is a **moderated online discussion site and not a public forum.**

Once posted, Scott County reserves the right to delete submissions that contain:

- a) profanity and vulgar or abusive language;
- b) personal attacks or threats of any kind;

c) offensive comments that target or disparage any ethnic, racial, or religious group.

d) sexual content or links to sexual content

e) sensitive information (for example, information that could compromise public safety or ongoing investigations)

f) spam or include links to other sites;

g) comments not topically related to the particular social medium article being commented upon clearly off topic;

h) advocate illegal activity;

i) promote particular services, products, or political organizations/candidates;

- j) infringe on copyrights or trademarks;
- k) use personally identifiable medical information.

Please note that the comments expressed on this site do not reflect the opinions and position of the Scott County government or its officers and employees. If you have any questions concerning the operation of this online moderated discussion site, please contact <insert dept>@scottcountyiowa.comgov."

Employees <u>postings on personal social media outside of their professional duties</u> must adhere to the following policies:

•Scott County respects the right of employees to write blogs and use social networking sites and does not want to discourage employees from self-publishing and self-expression. Employees utilizing LinkedIn identifying their County employment are required to reflect appropriate demeanor for a County employee. Employees that maintain a professional blog, contribute to another's professional blogs, or make comments on blogs or other social media sites must maintain a professional tone and are prohibited from:

• Disclosing County confidential <u>or sensitive</u> information or making any statements that violate County policies.

• Drafting, creating or accessing any non-professional blog using County technology.

• Representing that you are speaking or acting on behalf of the County, or that you are representing or presenting the view of the County unless specifically authorized by the County.

• Employees are expected to follow the guidelines set forth in this policy and the best practices guidelines to provide a clear line between you as the individual and you as the employee. If you publish content to any website outside of the County and it has something to do with work you do or subjects associated with Scott County, use a disclaimer such as this: "The postings on this site are my own and don't necessarily represent my employer's positions or opinions."

Employees should keep in mind that they are subject to legal action for posting material on a personal blog or social network page that is defamatory to persons; and for posting private information about a coworker's medical or financial affairs. Additionally, the County requires that employees make clear that any views and positions described on a personal blog or social network page are their own and not those of the County.

Also be aware that:

- Your activities may attract media interest in you as an individual, so proceed with care whether you are participating in an official or a personal capacity. If you have any doubts, seek advice from your supervisor or manager.
- State law does not give you unlimited "free speech"; your comments could lead to legal action or discipline depending on the context. When you choose to go public with your opinions you are legally responsible for your commentary. Individuals can be held personally liable for any commentary deemed to be defamatory, obscene (not swear words, but rather the legal

definition of "obscene"), proprietary, or libelous (whether pertaining to County staff or individuals). For these reasons, you should exercise caution with regards to exaggeration, colorful language, guesswork, obscenity, copyrighted materials, legal conclusions, and derogatory remarks or characterizations.

Attachment A

TECHNOLOGY SERVICES USE REQUEST

I hereby request access to Technology Services via a Scott County account.

I am specifically requesting access to the following types of technology services (initial by specific requests):

 Outlook	 Internet	 Social Media sites (list:)

____ Smart phone (exempt employee) ____ Smart Phone (non-exempt employee)

My signature below certifies that I have read the Technology Use Policy and Electronic Device policy (if applicable), and that I understand, accept, and will abide by the provisions stated therein. I am also aware that from time to time this policy will be updated and I am expected to be familiar and abide by those updates.

SIGNATURE:	
NAME:	
POSITION:	_
DEPARTMENT:	_
PHONE:	
DATE:	
SUPERVISOR APPROVAL AND ACKNOWLEDGEMENT IF ISSUIND PHONE TO NON-EXEMPT EMPLOYEES:	
DATE:	
DEPARTMENT HEAD APPROVAL:	
DATE:	
INFORMATION TECHNOLOGY ASSIGNED USERNAME(S):	

Return this form to the Information Technology Department, Attention: Network System Administrators

Attachment B

Please consider the environment before printing this e-mail.



Join Scott County in being "Green"; don't print this e-mail unless it's necessary.

Please consider the environment before printing this e-mail.

If you must print this e-mail; be sure to recycle the paper.

Attachment CB



TEMPORARY TELEWORK AGREEMENT

This Agreement is effective between _____ (hereinafter "the ______ Department/Office (hereinafter "the department"). The parties agree

employee") and _ as follows:

Scope and Duration of Agreement

1. This Agreement shall become effective as of ______ and shall remain in full force and effect until

_____, unless modified or rescinded by the department.

- 2. The term "office workplace" is the official work site of the department, which is the usual and customary location of the department's offices or an alternate location as set forth in the terms and conditions of this agreement.
- 3. The employee agrees to perform his/her assigned duties for the department as a "teleworker." The employee agrees that teleworking is for a temporary period and may be terminated at any time at the discretion of the department.
- 4. Other than those duties and obligations expressly imposed on the employee under this Agreement, the duties, obligations, responsibilities and conditions of the employee's employment with the department remain unchanged as a result of entering into this Agreement. The employee's salary and participation in employee pension, benefits, and County-sponsored insurance plans shall remain unchanged so long as the hours worked remain unchanged.

Termination of Agreement

5. The employee's participation as a teleworker is available only to employees deemed eligible at the department's discretion and approved and/or provided resources through the Information Technology Department. There exists no right to telework. The department may terminate the employee's participation as a teleworker, upon written notice of five (5) working days, unless the department director states in writing that conditions exists requiring less than five (5) days. The department will not be held responsible for costs, damages or losses resulting from terminating this Agreement. This Agreement is not a contract of employment and will not be construed as such.

Compensation

6. The employee agrees that work hours, overtime compensation, and vacation schedules will conform to existing policies and procedures during the term of this Agreement. The employee will be paid in accordance with state law, Scott County policies/rules and applicable collective bargaining agreements. Unless expressly provided for in this Agreement, the employee will not be entitled to any compensation for the use of the employee's home as an office, employee's furniture, equipment or supplies used in the employee's home, transportation for commuting to and from the official work site, picking up or delivering work-related materials, or for any other employee's work-related duty, or any home costs for utilities incurred in the performance of the employee's work-related duties.

- 7. The employee shall not work overtime for which additional compensation might be due without supervisory approval in advance. If the employee works overtime that has been approved in advance, the employee will be compensated in accordance with applicable laws, rules or collective bargaining agreements. By signing this Agreement, the employee agrees that failing to obtain proper approval for overtime work may result in removal from telework or appropriate disciplinary action. The employee must obtain supervisory approval before taking leave, in accordance with established procedures. By signing this Agreement, the employee agrees to follow established procedures for requesting and obtaining approval of leave.
- 8. Teleworkers must report to their official work site on scheduled telework days if requested by the supervisor or department head/elected office holder. A request by the supervisor or department head/elected office holder or the employee to report to the official work site shall not be construed as a termination of the telework arrangement. The employee's travel to the official work site is considered commute time, not hours of work, unless the employee is called into the official work site unexpectedly during the scheduled hours of a telework day.

Leave

- 9. Regulations regarding leave remain unchanged under the Telework Program. Leave must be requested and approved in accordance with existing practices, laws, regulations and county and departmental policy.
- 10. Supervisor or department head/elected office holder must clearly articulate the rules for use of leave and the leave approval process. Telework employees are expected to adhere to the same policies and procedures as non-telework employees.
- 11. Employees at a telework site who experience an emergency (e.g., power outage) must contact their manager. Employees may be directed to report to the official work site or another approved telework site to complete their workday.

Equipment and Supplies

- 12. The employee is responsible for the safekeeping of all department equipment and supplies located in the off-site work location.
- 13. The employee agrees that all equipment, software and supplies provided by the department for use at the telework site are to be used only for department business and may be used only by the employee or other persons authorized by proper management authority.
- 14. The department, at its sole discretion, may choose to purchase related office supplies for use by the employee while teleworking. This decision shall rest entirely with the department. The decision to discontinue use of such equipment shall rest entirely with the department.
- 15. In the event of equipment failure or malfunction, the employee agrees to immediately notify the department and cooperate to effect immediate repair or replacement of such equipment. The employee is responsible for returning inoperable equipment to the department for repair. In the event of delay in repair or replacement, or any other circumstance under which it would be impossible for the employee to telework, the employee understands that the employee may be assigned other work, or this Agreement may be temporarily suspended at the department's discretion.
- 16. All equipment supplied by the department will be inventoried and accounted for to the department by an inventory list signed by the employee.

- 17. The employee will not modify or alter any equipment nor relocate it without prior approval by the department. The employee will ensure that all County owned equipment is used only by department-authorized personnel to conduct department work.
- 18. The employee agrees that all County owned data, software, equipment, and supplies must be properly protected and secured. Department-owned data, software, equipment and supplies must not be copied in violation of law or the department's (or Scott County's) licensing agreements with its vendors. The employee will comply with all applicable policies and instructions regarding conflicts of interest and confidentiality. The employee agrees that, on termination of employment, this agreement or at the direction of the department, the employee will return all property belonging to the department in the employee's possession or control of the department to the office work site.
- 19. Furniture, lighting, electrical and telephone services and household safety equipment incidental to the use of the County owned equipment, software and supplies shall be appropriate for their intended use and shall be used and maintained in a safe condition, free from defects and hazards.

Workspace and Inspections

- 20. The employee agrees to designate a workspace within the employee's telework site and maintain this workspace in a safe condition, free from hazards and other dangers to the employee and County equipment. The telework site must be free from distractions and disturbances from children, pets, family members and others during work hours. The telework site is subject to inspection and approval by the department.
- 21. Unless otherwise agreed, a minimum of twenty-four (24) hours advance notice must be given before management may inspect the employee's telework site to ensure that Information systems and sensitive information protection measures are in place at the telework site. Such inspections shall be conducted during the employee's normal working hours. If the employee refuses a telework site inspection, the manager may immediately terminate the employee's telework agreement and the employee must surrender all County-owned equipment and supplies and return to the official work site.
- 22. As equipment is specifically assigned to the employee, if it is not returned upon request or termination the replacement value shall be deducted from the employee's paycheck.
- 23. The department shall set forth phone communication needs and expectations with the employee.
- 24. The employee agrees that the department will not be responsible for moving the employee's personal furniture or household belongings, nor for making any improvements or modifications to the employee's home in order to create the telework site. The department will install, if necessary and agreed to, work-related equipment at the department expense upon the employee's first entry in the Telework Program. If the employee changes from one telework site to another, the cost of terminating service at the former location and establishing service at the new location will be the responsibility of the employee, unless the department determines that it would be in the department's best interest to pay such costs.

Work Performance

25. The employee is responsible for maintaining and communicating availability (presence), appropriate levels of production, and quality of work while teleworking. Inadequate availability, work production and/or work quality may be cause for modification or termination of the employee's participation in teleworking. In such instance, the employee may, without right of appeal, be required to return to work at the official worksite.

Liabilities

26. The employee's and the department's liability and respective obligations shall be governed by Iowa law.

Responsibilities of Teleworkers

- 27. Inform management when unable to perform work due to illness or personal situations for which paid leave is authorized, or in extenuating circumstances, when leave without pay may be appropriate.
- 28. Accurately report time and attendance. The employees must submit their time and attendance in accordance with existing policy making certain to appropriately code their hours of telework.
- 29. Contact the official work site to retrieve messages and to request from management approval of a change in telework site.
- 30. Meet organizational requirements regarding communication and availability (presence).
- 31. Protect all county equipment by securing unattended laptops or other equipment whether it is in the office, home or while on travel.
- 32. Protect and store confidential physical and electronic information in a manner to maintain confidentiality and immediately report information system security incidents.
- 33. Report any work-related accidents.

Amendments

34. This Agreement may be modified, amended or terminated at any time by written notification from the department to the employee, as necessary, to ensure that the operating needs of the department are met.

Disclaimer

35. Nothing contained in this Agreement conveys nor is it intended to convey upon the employee a contract of employment.

Terms and Conditions of Telework Agreement

Name of Employee:

Name of Department:

Statement as to the benefit to the County as a result of the telework arrangement: Employee teleworking arrangement is in accordance with the Novel Coronavirus (COVID-19) Temporary Employment Policy.

Duties to be performed by Employee: Employee's duties shall be consistent with those required at the worksite, with any modification to those duties as separately communicated by management to the employee.

Telework site:

Address

City, State, Zip

Business Phone

Work days and duty hours at the telework site:

Telework conditions specific to this agreement:

Equipment provided to support telework:

I affirm by my signature below that I have read this entire Agreement and that I understand and agree to its entire content. I also affirm that I have been made aware of the following: the responsibilities for documenting time, attendance, approval of leave requests and provisions governing the approval of overtime and compensatory time; performance requirements and measurement; proper use and safeguard of government property; maintenance of records; and standards of conduct.

Employee's Signature	Employee's Printed Name	Date
Supervisor's Signature	Supervisor's Printed Name	Date
Department Head/Designee Signature	Dept. Head/Designee's Printed Name	Date

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY THE BOARD OF SUPERVISORS ON

DATE

SCOTT COUNTY AUDITOR

RESOLUTION

SCOTT COUNTY BOARD OF SUPERVISORS

March 31, 2022

APPROVING CHANGES TO VARIOUS GENERAL AND HUMAN RESOURCES POLICIES

BE IT RESOLVED BY the Scott County Board of Supervisors as follows:

Section 1. Human Resources Policy H "Employment Records" is updated to address the transition from paper to electronic records.

Section 2. Human Resources Policy I "Hours of Work" increases the Field Training Officer incentive pay in the Jail and requires certification of timesheets.

Section 3. Human Resources Policy N "Unpaid Leave of Absence" updates the policy to comply with federal and state law.

Section 4. Human Resources Policy U "Separation of Employment" requires once separation notice is given to assist in transition of work.

Section 5. General Policy 34 "Technology Use" expands procedures to address evolving security needs.

Section 6. This resolution shall take effect immediately.

Item 10 3/29/2022

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY THE BOARD OF SUPERVISORS ON

DATE

SCOTT COUNTY AUDITOR

RESOLUTION

SCOTT COUNTY BOARD OF SUPERVISORS

March 31, 2022

APPROVAL OF STAFF APPOINTMENTS

BE IT RESOLVED BY the Scott County Board of Supervisors as follows:

Section 1. The hiring of Monica Roby for the position of Senior Office Assistant in the County Attorney's Office at entry level.

Section 2. The hiring of Debra Shrader for the position of Senior Office Assistant in the Sheriff's Office at entry level.

OFFICE OF THE COUNTY ADMINISTRATOR

600 West Fourth Street Davenport, Iowa 52801-1003



Office: (563) 326-8702 Fax: (563) 328-3285 www.scottcountyiowa.gov

March 22, 2022

TO: Mahesh Sharma, County Administrator

FROM: David Farmer, CPA, MPA Director of Budget and Administrative Services

RE: Option to elect the \$10 million standard allowance for identifying revenue loss under the Coronavirus State and Local Fiscal Recovery Funds.

Scott County is required to complete Coronavirus State & Local Fiscal Recovery Funds compliance report on a quarterly basis. The first report through December 31, 2021 was submitted January 27, 2022. The report was submitted under guidance from the interim rule. The final rule will be effective April 1, 2022.

The quarterly report submitted as of December 31, 2021 asked:

"Is your jurisdiction electing to use the standard allowance of up to \$10 million for identifying revenue loss?". The report was submitted with a "Yes".

Estimated Revenue Loss due to COVID-19 Public Health Emergency as of December 31, 2020. The report was submitted with \$0.00.

Were Fiscal Recovery Funds used to make a deposit into a pension fund? The report was submitted with "No".

Please provide an explanation of how revenue replacement funds were allocated to government services. The report was submitted with the following: The County is planning on utilizing the standard allows of up to \$10 million as lost revenue in future reporting periods. No expenditures have been applied to the lost revenue category as of December 31, 2021. The project costs are expected to be reported as expended between March 17, 2022 and December 31, 2024.

Now that the County has adopted the 2022 budget amendment and the 2023 budget, it is recommended that the County affirm the revenue loss election and affirm the budgetary plan of utilizing the loss revenue election for government services including one-time capital development of \$7,250,000 for the Youth Justice and Rehabilitative Center and the \$2,750,000 for the Continuity of Operations Plan / Continuity of Government services area.

The 1st quarter compliance report has not been released for submission as of March 22, 2022; however a certification of the above questions is expected to be on the next quarterly

report and future reports. As expenditures are incurred as qualifying general government services, they will be reported on the future compliance reports.

A resolution is provided for the March 31, 2022 Board of Supervisors meeting.

I will be at the March 29, 2022 Committee of the Whole to address any additional

questions.

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES
THAT THIS RESOLUTION HAS BEEN FORMALLY
APPROVED BY THE BOARD OF SUPERVISORS ON

DATE

SCOTT COUNTY AUDITOR

RESOLUTION

SCOTT COUNTY BOARD OF SUPERVISORS

MARCH 31, 2022

APPROVING CORONAVIRUS STATE AND LOCAL FISCAL RECOVERY FUNDS LOST REVENUE OPTION

BE IT RESOLVED BY the Scott County Board of Supervisors as follows:

Section 1. Scott County is in support of Coronavirus Local Fiscal Recovery Fund as added by the American Rescue Plan Act.

Section 2. The County hereby elects to certify the standard allowance of up to \$10,000,000.00 lost revenue under the Coronavirus State and Local Fiscal Recovery Funds. The funds will be expended as general government services for capital development, as budgeted, in the fiscal year 2023 budget and capital plan.

Section 3. The Director of Budget and Administrative Services is hereby authorized to certify the election on behalf of the Scott County Board of Supervisors on the current and future quarterly and yearly reports.

Section 4. This resolution shall take effect immediately.

Item 12 3/29/2022



March 29, 2022

To: Scott County Board of SupervisorsFrom: Ray Weiser, GIS ManagerRe: ESRI Annual GIS Software Maintenance

Our GIS software suite represents a collection of advanced desktop, server and mobile/web applications that provides Scott County with the ability to share, analyze and maintain a growing collection of spatial information. The software we use is developed by the industry leading GIS software firm, Environmental Systems Research Institute (ESRI) based in Redlands, CA.

ESRI offers an annual, renewable software license for their products which gives us access to product updates, an online GIS portal, technical support and ESRI User Conference registration. The maintenance agreement before you covers the following software:

- (2) ArcGIS for Server Enterprise Standard.
- (4) ArcGIS for Desktop Advanced.
- (2) ArcGIS for Desktop Standard.
- (7) ArcGIS for Desktop Basic.
- (4) Extension products (3D Analyst, Publisher, Spatial Analyst, Network Analyst).
- Named user accounts including (10) Viewer, (4) Creator, (4) Field Worker and (3) Surge roles.

I respectfully recommend approval of the ESRI GIS Software Maintenance Renewal request in the amount of \$28,650.00. If approved, the GIS software maintenance renewal costs will be paid for using \$500.00 from the Sheriff's Office for maintenance of the Network Analyst Extension, \$1,350.00 from Scott Emergency Communications Center for one copy of ArcGIS Desktop Standard, \$2,250 from Scott County EMA for the named Surge user accounts with the remainder paid for from the Information Technology Department operational budget.

Sincerely,

Ray Weiser Scott County GIS Manager

Encl: ESRI Quote, Resolution



Scott County, Iowa Geographic Information Systems Information Technology Department



Esri Inc 380 New York Street Redlands CA 92373

Subject:	Renewal Quotation
Date: To: Organization:	01/23/2022 Ray Weiser County of Scott Information Technology Dept
Fax #:	
From: Fax #: Email:	
Number of pages transmitted (including this cover sheet):	Quotation #260629196Document Date: 01/23/2022
your term current may to discontinue your co benefits and services.	ned quotation for your forthcoming term. Keeping entitle you to exclusive benefits, and if you choose verage, you will become ineligible for these valuable
following website for at your licensing level	arding software maintenance renewal, visit the details regarding the maintenance program benefits apps/products/maintenance/qualifying.cfm
	from the date of discontinuation will be due and or reactivate your coverage at a later date.
benefits. Complimenta	programs and license types may have varying ary User Conference registrations, software support, updates are not included in all programs.
Customers who have a option of supporting so	multiple copies of certain Esri licenses may have the ome of their licenses with secondary maintenance.
purchase order terms a	t the terms of use for Esri products as well as and conditions, please visit /legal/licensing/software-license.html
If you have any quest Customer Service at 8	ions or need additional information, please contact 88-377-4575 option 5.



 [®] 380 New York Street Redlands, CA 92373 Phone: + 190979328532857 Fax #: 909-307-3083

Quotation

Date:	01/2	3/2022 Quotation Number: 26062919		
County of Scott Information Technology Dept Geographic Information Systems Div Scott County Courthouse 400 W 4th St Davenport IA 52801		of Scott tion Technology Dept hic Information Systems Div ounty Courthouse th St rt IA 52801	Send Purchase Orders To: Environmental Systems Research Institute, Inc. 380 New York Street Redlands, CA 92373-8100 Attn: Alan Chrest Please include the following remittance address on your Purchase Order: Environmental Systems Research Institute, Inc. P.O. Box 741076 Los Angeles, CA 90074-1076	
	-	Number: 239115 regarding this document, please contact Customer Service at 888-377-4575.		
Item		Material#	Unit Price	Extended Price
10	1	52384 ArcGIS Desktop Advanced Concurrent Use Primary Maintenand Start Date: 04/24/2022 End Date: 04/23/2023	3,000.00 ce	3,000.00
1010	3	52385 ArcGIS Desktop Advanced Concurrent Use Secondary Mainten Start Date: 04/24/2022 End Date: 04/23/2023	1,200.00 ance	3,600.00
2010	1	86497 ArcGIS Desktop Standard Concurrent Use Primary Maintenance Start Date: 04/24/2022 End Date: 04/23/2023	1,500.00 e	1,500.00
3010	1	86500 ArcGIS Desktop Standard Concurrent Use Secondary Maintena Start Date: 04/24/2022 End Date: 04/23/2023	1,200.00 Ince	1,200.00
4010	1	87194	700.00	700.00

Quotation is valid for 90 days from document date.

Any estimated sales and/or use tax has been calculated as of the date of this quotation and is merely provided as a convenience for your organization's budgetary purposes. Esri reserves the right to adjust and collect sales and/or use tax at the actual date of invoicing. If your organization is tax exempt or pays state taxes directly, then prior to invoicing, your organization must provide Esri with a copy of a current tax exemption certificate issued by your state's taxing authority for the given jurisdiction.

Esri may charge a fee to cover expenses related to any customer requirement to use a proprietary vendor management, procurement, or invoice program.

Issued By: Alan Chrest Ext: 2857

[CSBATCHDOM]

To expedite your order, please reference your customer number and this quotation number on your purchase order.



Quotation Page 2

tem	Qty	Material#	Unit Price	Extended Price
		ArcGIS Desktop Basic Concurrent Use Primary Maintenance Start Date: 04/24/2022 End Date: 04/23/2023		
010	6	87195 ArcGIS Desktop Basic Concurrent Use Secondary Maintenance Start Date: 04/24/2022 End Date: 04/23/2023	500.00	3,000.00
010	1	87232 ArcGIS Spatial Analyst for Desktop Concurrent Use Primary Maintenar Start Date: 04/24/2022 End Date: 04/23/2023	500.00 nce	500.00
010	1	87198 ArcGIS 3D Analyst for Desktop Concurrent Use Primary Maintenance Start Date: 04/24/2022 End Date: 04/23/2023	500.00	500.00
010	1	98696 ArcGIS Publisher for Desktop Concurrent Use Primary Maintenance Start Date: 04/24/2022 End Date: 04/23/2023	500.00	500.00
010	1	100571 ArcGIS Network Analyst for Desktop Concurrent Use Primary Mainten Start Date: 04/24/2022 End Date: 04/23/2023	500.00 ance	500.00
0010) 1(153147 ArcGIS Online Viewer (Formerly Named User Level 1) Term License Start Date: 04/24/2022 End Date: 04/23/2023	100.00	1,000.00
101() 4	153148 ArcGIS Online Creator (Formerly Level 2 Named User) Term License Start Date: 04/24/2022 End Date: 04/23/2023	500.00	2,000.00
2010) 3	157501 State and Local Public Safety Named User Program ArcGIS Online Crea Surge Environment Term License Start Date: 04/24/2022 End Date: 04/23/2023	750.00 ator (Formerly L	2,250.00 evel 2 Named User



• 380 New York Street **estim Redlands**, CA 92373 Phone: + 190979328532857 Fax #: 909-307-3083

Quotation

Page 3

Date: 01/23/2022 Quotation Number: 26062919			
tem Qty	Material#	Unit Price	Extended Price
3010 1	161328 ArcGIS Enterprise Standard Up to Four Cores Maintenance Start Date: 04/24/2022 End Date: 04/23/2023	5,000.00	5,000.00
4010 4	165533 ArcGIS Online Field Worker Term License Start Date: 04/24/2022 End Date: 04/23/2023	350.00	1,400.00
5010 1	109839 ArcGIS for Server Enterprise Standard Up to Four Cores Migra Start Date: 04/24/2022 End Date: 04/23/2023		
		Item Subtotal Estimated Tax Total	28,650.00 0.00 USD 28,650.00
OUNS/CEC	06-313-4175 CAGE: 0AMS3		



Quotation

Page 4

Date: 01/23/2022 Item Qty Material# Quotation Number: 26062919

Unit Price

Extended Price

Renew al Options:

- Online: Renew through My Esri site at https://my.esri.com
 - Credit Card
 - Purchase Order
 - Email Authorization
- Email or Fax: Email Authorization, Purchase Order or signed quote to:
 - Fax: 909-307-3083
 - Email: service@esri.com

Requests via email or signed quote indicate that you are authorized to obligate funds for your organization and your organization does not require a purchase order.

If there are any changes required to your quotation please respond to this email and indicate any changes in your invoice authorization.

If you choose to discontinue your support, you will become ineligible for support benefits and services. All maintenance fees from the date of discontinuation will be due and payable if you decide to reactivate your support coverage at a later date.

The items on this quotation are subject to and governed by the terms of this quotation, the most current product specific scope of use document found at http://assets.esri.com/content/dam/esrisites/media/legal/

product-specific-terms-of-use/e300.pdf, and your applicable signed agreement with Esri. If no such agreement covers any item quoted, then Esri's standard terms and conditions found at

http://assets.esri.com/content/dam/esrisites/media/legal/ma-full/ma-full .pdf apply to your purchase of that item. Federal government entities and government prime contractors authorized under FAR 51.1 may purchase under the terms of Esri's GSA Federal Supply Schedule. Supplemental terms and conditions found at

http://www.esri.com/en-us/legal/terms/state-supplemental apply to some state and local government purchases. All terms of this quotation will be incorporated into and become part of any additional agreement regarding Esri's offerings. Acceptance of this quotation is limited to the terms of this quotation. Esri objects to and expressly rejects any different or additional terms contained in any purchase order, offer, or confirmation sent to or to be sent by buyer. Unless prohibited by law, the quotation information is confidential and may not be copied or released other than for the express purpose of system selection and purchase/license. The information may not be given to outside parties or used for any other purpose without consent from Esri. Delivery is FOB Origin.

In order to expedite processing, please reference the quotation number and any/all applicable Esri contract number(s) (e.g. MPA, ELA, SmartBuy GSA, BPA) on your ordering document.



380 New York Street Redlands, CA 92373 Phone: + 190979328532857 Fax #: 909-307-3083



Page 5

 Date:
 01/23/2022
 Quotation No:
 26062919
 Customer No:
 239115

 Item
 Qty
 Material#
 Unit Price
 Extended Price

US FEDERAL CUSTOMERS: If you are a federal customer or a contractor purchasing on behalf of a federal customer a purchase order is required to receive an invoice. Please email the purchase order to service@esri.com

By signing below, you are authorizing Esri to issue a software support invoice in the amount of USD______ plus sales tax, if applicable.

Please check one of the following:

_____I agree to pay any applicable sales tax.

_____I am tax exempt. Please contact me if Esri does not have my current exempt information on file.

Signature of Authorized Representative

Date

Name (Please Print)

Title

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY THE BOARD OF SUPERVISORS ON

DATE

SCOTT COUNTY AUDITOR

RESOLUTION

SCOTT COUNTY BOARD OF SUPERVISORS

March 31, 2022

APPROVAL OF ANNUAL MAINTENANCE RENEWAL FOR GIS SOFTWARE SUITE WITH ESRI, INC.

BE IT RESOLVED BY the Scott County Board of Supervisors as follows:

- Section 1. That the annual maintenance renewal for GIS software suite with ESRI, Inc. in the amount of \$28,650.00 is hereby approved.
- Section 2. That a purchase order shall be issued for said amount for the annual maintenance renewal for GIS software suite in the amount of 28,650.00 (further described in ESRI, Inc. quote # 26062919).
- Section 3. This resolution shall take effect immediately.

Item 13 3/29/2022

Scott County Auditor's Office Auditor Kerri Tompkins 600 W. 4TH Street Davenport, Iowa 52801 Ph: (563) 326-8631 Fax: (563) 326-8601 www.scottcountyiowa.gov



To: Scott County Board of SupervisorsFrom: Kerri Tompkins, Scott County AuditorRe: Assessment of election costs for City/School Elections 2021

Date: March 29, 2022

My office has submitted a resolution to approve the assessment of election costs for the 2021 City/School elections, including the November 2, 2021 City/School Election and the 7th Ward Primary Election for Davenport, in the amount of \$132,195.71.

Iowa Code §47.3 defines allowable costs: "costs shall include but not be limited to the printing of the ballots and the election register, publication of notices, printing of declaration of eligibility affidavits, compensation for precinct election boards, canvass materials, and the preparation and installation of voting equipment. The county commissioner of elections shall certify to the county board of supervisors a statement of costs for an election."

The attached resolution covers all allowed costs and is a fair distribution of these costs among the various jurisdictions.

I plan to attend the March 29th Committee of the Whole meeting and would be happy to answer your questions.

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY THE BOARD OF SUPERVISORS ON

DATE

SCOTT COUNTY AUDITOR

RESOLUTION

SCOTT COUNTY BOARD OF SUPERVISORS

MARCH 31, 2022

APPROVING ASSESSMENT OF ELECTION COSTS FOR THE 2021 CITY/SCHOOL ELECTIONS TOTALING \$132,195.71

BE IT RESOLVED BY the Scott County Board of Supervisors as follows:

Section 1. The assessment of the 2021 City/School Elections costs, as detailed in County

Auditor's Office, is hereby approved to the various jurisdictions in the following amounts:

School Elections	
Bennett	\$113.70
Calamus-Wheatland	58.50
Davenport	32,245.19
Durant	120.29
Bettendorf	6,716.04
North Scott	5,096,81
Pleasant Valley	3,997.29
Eastern IA Comm. College	23,585.72
TOTAL	\$71,823.55
Municipal Elections	
Bettendorf City	\$12,405.04
Blue Grass City	514.95
Buffalo City	360.47
Davenport City Primary	11,531.44
Davenport City Municipal	30,326.69
Dixon City	61.79
Donahue City	95.58
Durant City	27.19
Eldridge City	2,091.13
LeClaire City	1,533.74
Long Grove City	286.31
Panorama Park City	44.08
Princeton City	307.32
Riverdale City	139.24
Maysville City	51.50
McCausland City	101.34
New Liberty City	36.25
Walcott City	458.10
TOTAL	\$60,372.16
GRAND TOTAL	\$132,195.71

Section 2. This resolution shall take effect immediately.

Item 14 3/29/2022

Scott County Auditor's Office Auditor Kerri Tompkins 600 W. 4TH Street Davenport, Iowa 52801 Ph: (563) 326-8631 Fax: (563) 326-8601 www.scottcountyiowa.gov



To: Scott County Board of SupervisorsFrom: Kerri Tompkins, Scott County AuditorRe: Pay Rates for Precinct Election Officials

Date: March 29, 2022

My office is requesting to increase the pay rate for precinct election officials (PEOs) beginning with the June 7, 2022 Primary Election cycle. The request is to increase chairperson pay to \$15.00 per hour; regular PEO pay to \$12.50 per hour; and on-call pay to \$10.00 per hour.

All PEOs work 15 hours or more on election days and attend four hours of training before each election. Precinct chair persons also transport election documents and equipment, and occasionally attend additional extra training, adding one to four hours of additional time. Our PEOs need to know how to operate the Precinct Atlas electronic poll book, operate our election equipment, and understand increasingly complex laws and procedures regarding the conduct of elections. They deal with a variety of voter issues and do so with respect and professionalism.

For this expertise we currently pay our precinct chairs \$12.00 per hour and other PEOs \$10.00 per hour, plus mileage. The last time they had a regular pay raise was in 2018, although wages for all workers were temporarily increased to \$15 per hour during the 2020 election cycle to encourage their work during the pandemic. This wage level is not adequate to attract and retain sufficient numbers of precinct officials, especially quality workers who can fulfill all of the increasing complex tasks expected of them.

There is adequate funding within the current year budget to accommodate the pay increase. The Local Elections category of the budget has a remaining balance of \$47,397 for PEO wages as the City of Davenport primary election was only for the 7th Ward. This amount could be shifted to the Election Administration category which covers primary elections. I have consulted with the Budget Director and he said this change in categories can be made during the May budget amendment process.

I plan to attend the March 29th Committee of the Whole meeting and would be happy to answer your questions.

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES THAT THIS RESOLUTION HAS BEEN FORMALLY APPROVED BY THE BOARD OF SUPERVISORS ON ______.

DATE

SCOTT COUNTY AUDITOR

RESOLUTION

SCOTT COUNTY BOARD OF SUPERVISORS

March 31, 2022

RESOLUTION TO INCREASE THE RATES OF PAY FOR PRECINCT ELECTION OFFICIALS

WHEREAS, Scott County's precinct election officials conduct our elections with the utmost integrity, and thereby protect and promote the public trust and confidence in the democratic process, and,

WHEREAS, Scott County's precinct election officials ensure safe, accurate and efficient voting processes, and,

WHEREAS, the efforts of Scott County's precinct election officials allow all Scott County voters to cast their ballots privately and independently, and,

WHEREAS, the pay rates for precinct election officials has not increased since 2018,

THEREFORE, BE IT RESOLVED by the Scott County Board of Supervisors as follows:

Section 1. The rate of pay for precinct chair persons shall increase to \$15.00 per hour.

Section 2. The rate of pay for precinct election officials shall increase to \$12.50 per hour.

Section 3. The rate of pay for on-call precinct election officials shall increase to \$10.00 per hour.

Section 4. This resolution shall take effect for the June 7, 2022 Primary Election.

Item 15 3/29/2022

RESOLUTION SCOTT COUNTY BOARD OF SUPERVISORS

Recognizing the Contributions of Essential Workers to Scott County during the COVID-19 Pandemic

WHEREAS, during the COVID-19 pandemic, essential workers have continued their work on the frontlines to protect the health, well-being, and safety of Scott County residents; and

WHEREAS, essential workers include health care workers, nursing home workers, local public health workers, direct care workers, food service and grocery store workers, gas station attendants, construction workers, utility workers, post officers, delivery service workers, janitors, transit workers, truck drivers, social service workers, emergency service workers, and other public servants; and

WHEREAS, they are heroes of the pandemic who have shown deep commitment to ensuring the well-being and convenience of the residents of their communities and have kept Scott County's economy running; and

WHEREAS, these essential workers have selflessly put their lives at risk to continue te fulfill their critical jobs so all of us could stay safe at home; and

WHEREAS, we should take time to recognize and honor each and every one of the essential workers across Scott County who have made sacrifices to provide critical services, and express our gratitude for their continued work for the betterment of our community; and

WHEREAS, we should recognize the exclusion of many essential workers from critical federal and local pandemic relief; and

WHEREAS, without these essential workers at every level, continuity of service would be impossible; and

WHEREAS, we should also pay tribute to essential workers who have lost their lives during the pandemic.

BE IT RESOLVED BY the Scott County Board of Supervisors as follows:

Section 1. That the Board of Supervisors does hereby recognize March as Scott County Essential Workers Appreciation Month.

Section 2. This resolution shall take effect immediately.