

ITEM #: 26  
 DATE: 08-08-23  
 DEPT: W&PC

**COUNCIL ACTION FORM**

**SUBJECT: FINAL COMPLETION OF STORY COUNTY EDGE-OF-FIELD PROJECT**

**BACKGROUND:**

On July 26, 2022, Council awarded a contract to Hands On Excavating, LLC of Radcliffe, Iowa, in the amount of \$240,389.42 for the installation of five saturated buffers and five bioreactors for the Story County Edge-of-Field Project. The saturated buffers and bioreactors will reduce the nitrogen discharge from subsurface field drainage before it enters a stream or other surface waters. These practices can now be entered into the Iowa Nutrient Reduction Exchange and the nutrient reductions will be 'banked' for future use.

Three change orders totaling \$38.80 were executed bringing the adjusted contract price to \$240,428.22. The total project expenses, funding, and authorized budget are shown below.

	<b>Project Expenses</b>	<b>Project Funding</b>	<b>Authorized Budget</b>
<b>Hands On Excavating, LLC (this action)</b>	<b>\$240,428.22</b>		
Woodchip Media	\$5,400.00		
Easement Payments	\$20,000.00		
Engineering Services	\$18,300.00		
Iowa Department of Agriculture and Land Stewardship		\$133,368.44	
Natural Resources Conservation Service (USDA)		\$76,170.32	
Story County Conservation		\$36,192.49	
Story County Soil & Water Conservation District		\$4,204.47	
City of Ames		\$34,192.50	
FY 2022/23 Edge-of-Field Project (Watershed-based Nutrient Reduction CIP)			\$289,634.00
	<b>\$284,128.22</b>	<b>\$284,128.22</b>	<b>\$289,634.00</b>

All work under the contract was completed in accordance with the plans and specifications on August 1, 2023. Statements of Completion have been prepared by the

design firm, JEO Consulting Group, Inc., and the project is now ready for acceptance by the City Council.

**ALTERNATIVES:**

1. Accept completion of the work in the final amount of \$240,428.22 and authorize final payment, in accordance with the contract, to Hands On Excavating, LLC of Radcliffe, Iowa.
2. Do not accept completion of the Story County Edge-of-Field Project at this time and provide direction to staff on the actions needed to close out the contract.

**CITY MANAGER'S RECOMMENDED ACTION:**

A contract to install five saturated buffers and five bioreactors as part of the Story County Edge-of-Field Project was awarded by Council on July 26, 2022. All work for the project has been completed in accordance with plans and specifications. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, as described above.





# 2022 EDGE OF FIELD PRACTICES JOHN RISDAL SATURATED BUFFERS & BIOREACTORS

SITE ID: JR: 1,2,3,4,5,6,7,10,11,13

**ENGINEER:**

**NAME:** CALEB RASMUSSEN, PE  
**CONTACT INFO:** COMPANY: JEO CONSULTING GROUP  
 PHONE: 712.792.9711  
 EMAIL: CRASMUSSEN@JEO.COM

**ENGINEERING JOB CLASS: IV**

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.

*Caleb Rasmussen* 5/6/2022  
 (signature) (date)

Printed or typed name: Caleb D. Rasmussen  
 License Number: 25713  
 My license renewal date is December 31, 2022.

Pages or sheets covered by this seal, ALL SHEETS IN THE SHEET INDEX

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGEMENT, BELIEF, THE PLANS MEET APPLICABLE NRCS STANDARDS.

ENGINEER'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

I HAVE REVIEWED AND AGREE WITH THE CONTENT OF THE PLAN AND SPECIFICATIONS AS PREPARED.

LANDOWNER: \_\_\_\_\_ DATE: \_\_\_\_\_

CONTRACTOR IS RESPONSIBLE FOR CALLING IOWA ONE CALL

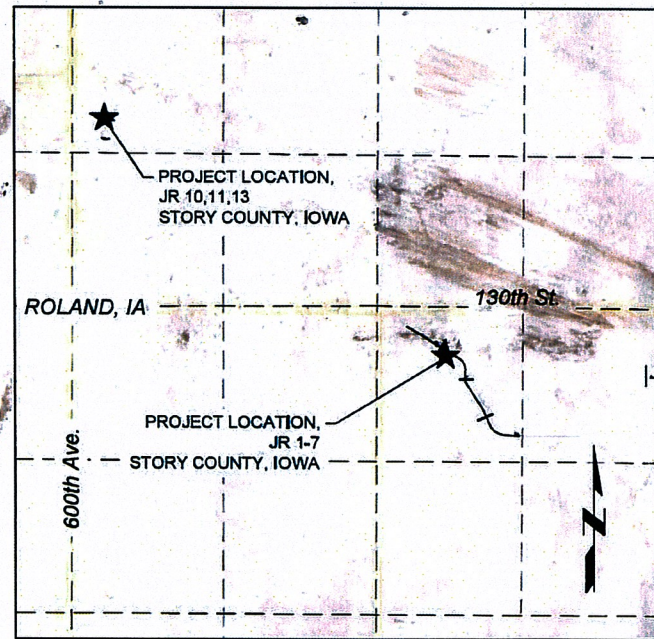
ONE CALL TICKET NO.: \_\_\_\_\_

IF A CULTURAL RESOURCE IS IDENTIFIED DURING CONSTRUCTION, WORK WILL STOP IMMEDIATELY AND THE LOCAL NRCS FIELD OFFICE WILL BE NOTIFIED.

I CERTIFY THAT THIS PRACTICE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

CONTRACTOR: *James State* 7-11-23  
 ENGINEER'S REP: *Jim Wynn* 8-1-23

One Call Ticket #5  
 Saturated Buffer  
 230590110  
 230590109



One Call Ticket LOCATION MAP  
 Bio Reactors  
 230590123

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D2.2	JR-13 WCS DETAIL
D3.1	SATURATED BUFFER TYPICAL DETAIL
D3.2	SATURATED BUFFER INLINE WCS TYPICAL DETAIL
D3.3	TILE OUTLET TYPICAL
D3.4	SATURATED BUFFER WCS DETAILS
D3.5	CLEANOUR, RISER, & WCS DETAILS

**NOTE:**  
 NEITHER THE OWNER (CLIENT) NOR JEO CONSULTING GROUP, INC. ASSUMES ANY RESPONSIBILITY FOR UTILITY LOCATIONS BEING ACCURATELY SHOWN OR NOT SHOWN ON THE PLANS. A REQUEST FOR UTILITY LOCATES WAS MADE FOR THIS LOCATION AS PER THE ONE-CALL NOTIFICATION SYSTEM ACT. (DATE: 5/4/2022, TICKET NO. 1782700882).

UTILITIES SHOWN ARE FROM FIELD MARKINGS PROVIDED IN THE FIELD BY THE UTILITY PROVIDERS.

THE EXACT LOCATION AND/OR SIZE OF UNDERGROUND FEATURES MAY NOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. FIELD VERIFICATION OF UTILITIES MAY BE REQUIRED. CONTRACTOR(S) SHALL NOTIFY THE RESPECTIVE UTILITY COMPANIES BEFORE COMMENCING ANY WORK.



2022  
 EDGE OF FIELD PRACTICES  
 JOHN RISDAL  
 SATURATED BUFFERS & BIOREACTORS  
 SITE ID: JR: 1,2,3,4,5,6,7,10,11,13

TITLE SHEET

JEO PROJECT NO.	210601.00
FILE NAME	SATURATED-EdgeField.dwg
FIELD OFFICE	ROLLA CO, NRCS, AMES
FIELD BOOK	NA
DESIGNED BY	DATE
CDR	4/15/2022
DRAWN BY	DATE
CDR	5/4/2022
CHECKED BY	DATE
JAA	5/6/2022
APPROVED BY	DATE
REVISIONS	

SHEET C0.1

P:\Engineering\2022\2022-05-04-Edge of Field Practices\2022-05-04-Edge of Field Practices\2022-05-04-Edge of Field Practices.dwg, on 5/6/2022, 1:32 PM.



# 2022 EDGE OF FIELD PRACTICES PAUL HERTZ BIOREACTOR SITE ID: PH-2



**ENGINEER:**

**NAME:**

CALEB RASMUSSEN, PE

**CONTACT INFO:**

COMPANY: JEO CONSULTING GROUP  
PHONE: 712.792.9711  
EMAIL: CRASMUSSEN@JEO.COM

**ENGINEERING JOB CLASS: IV**

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.

*Caleb Rasmussen* 4/21/2022  
(Signature) (Date)

Printed or typed name: Caleb D. Rasmussen  
License Number: 25713  
My license renewal date is December 31, 2022.  
Pages or sheets covered by this seal: ALL SHEETS IN THE SHEET INDEX

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGEMENT, BELIEF, THE PLANS MEET APPLICABLE NRCS STANDARDS.

ENGINEER'S SIGNATURE: \_\_\_\_\_  
NAME DATE

I HAVE REVIEWED AND AGREE WITH THE CONTENT OF THE PLAN AND SPECIFICATIONS AS PREPARED:

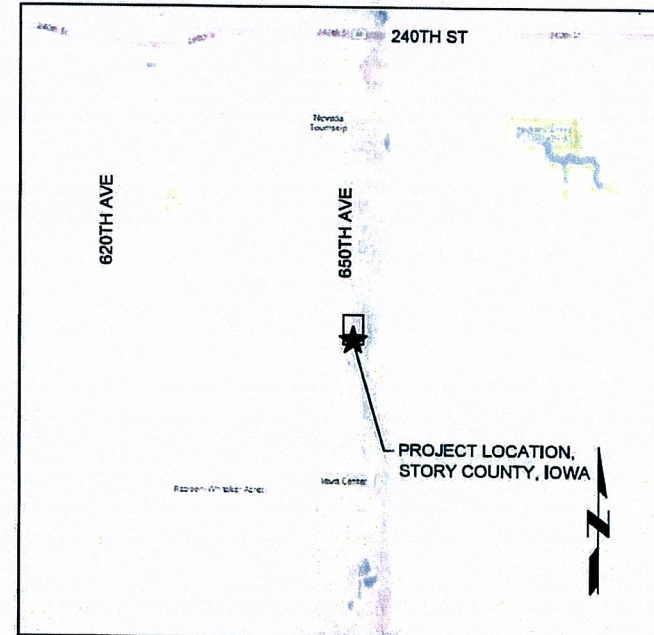
LANDOWNER: \_\_\_\_\_  
NAME DATE

CONTRACTOR IS RESPONSIBLE FOR CALLING IOWA ONE CALL  
ONE CALL TICKET NO.: 230110371

IF A CULTURAL RESOURCE IS IDENTIFIED DURING CONSTRUCTION, ALL WORK SHALL HALT, AND THE NRCS ARCHEOLOGIST SHALL BE NOTIFIED IMMEDIATELY, 515.284.4370

I CERTIFY THAT THIS PRACTICE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

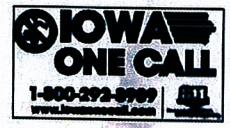
CONTRACTOR: *James Miller* 7-11-23  
ENGINEER'S REP: *Tom Wm* 8-1-23



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C1.2	POTENTIAL BMPS
PP1.1	PLAN AND PROFILE - PH 2
D1.1	PH-2 BIOREACTOR - TYPICAL DETAIL
D1.2	PH-2 TILE OUTLET STANDARD DETAIL
D1.3	PH-2 OUTLET WCS TYPICAL DETAIL
D1.4	PH-2 INLET WCS TYPICAL DETAIL
D2.1	BIOREACTOR CLEANOUT

**NOTE:**  
NEITHER THE OWNER (CLIENT) NOR JEO CONSULTING GROUP, INC. ASSUMES ANY RESPONSIBILITY FOR UTILITY LOCATIONS BEING ACCURATELY SHOWN OR NOT SHOWN ON THE PLANS. A REQUEST FOR UTILITY LOCATES WAS MADE FOR THIS LOCATION AS PER THE ONE-CALL NOTIFICATION SYSTEM ACT. (DATE: 2/1/2022, TICKET NO. 252206273).  
UTILITIES SHOWN ARE FROM FIELD MARKINGS PROVIDED IN THE FIELD BY THE UTILITY PROVIDERS.  
THE EXACT LOCATION AND/OR SIZE OF UNDERGROUND FEATURES MAY NOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. FIELD VERIFICATION OF UTILITIES MAY BE REQUIRED. CONTRACTOR(S) SHALL NOTIFY THE RESPECTIVE UTILITY COMPANIES BEFORE COMMENCING ANY WORK.



2022  
EDGE OF FIELD PRACTICES  
PAUL HERTZ  
BIOREACTOR  
SITE ID: PH-2

COVER SHEET & LOCATION MAP

PROJECT NO.	210851.00
DATE	4/25/2022
DRAWN BY	G.T.L.
FILE NAME	20210805-Ph2_Maps.dwg
FIELD BOOK	N/A
FIELD CREW	POLK CO.
SURVEY FILE NO.	21084.00
PLAN IN HAND	
CHECKED BY	JAA
DATE	7/1/2022
REVISIONS	

C0.1

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893.3






# 2022 EDGE OF FIELD PRACTICES DESIGN OF BOB MEIMANN SATURATED BUFFERS

SITE ID: RM-1 & RM-2

**ENGINEER:**  
**NAME:** CALEB RASMUSSEN, PE  
**CONTACT INFO:** COMPANY: JEO CONSULTING GROUP  
 PHONE: 712.792.9711  
 EMAIL: CRASMUSSEN@JEO.COM

**ENGINEERING JOB CLASS: II**



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.

*Caleb Rasmussen* 4/21/2022  
(signature) (date)

Printed or typed name: Caleb D. Rasmussen  
 License Number: 25713  
 My license renewal date is December 31, 2022.  
 Pages or sheets covered by this seal: ALL SHEETS IN THE SHEET INDEX

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGEMENT, BELIEF, THE PLANS MEET APPLICABLE NRCS STANDARDS.

ENGINEER'S SIGNATURE: \_\_\_\_\_  
NAME DATE

I HAVE REVIEWED AND AGREE WITH THE CONTENT OF THE PLAN AND SPECIFICATIONS AS PREPARED:

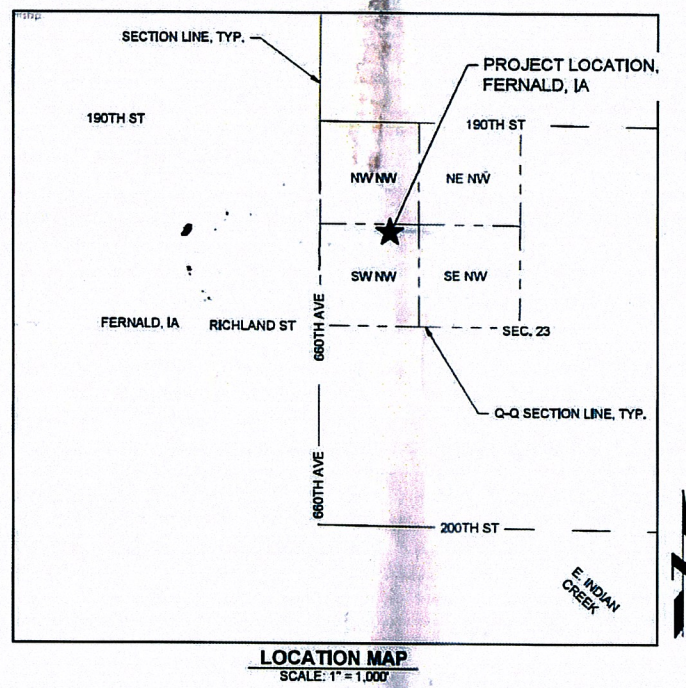
LANDOWNER: \_\_\_\_\_  
NAME DATE

CONTRACTOR IS RESPONSIBLE FOR CALLING IOWA ONE CALL  
 ONE CALL TICKET NO.: **230510445**

IF A CULTURAL RESOURCE IS IDENTIFIED DURING CONSTRUCTION, ALL WORK SHALL HALT, AND THE NRCS ARCHEOLOGIST SHALL BE NOTIFIED IMMEDIATELY. 515.284.4370

I CERTIFY THAT THIS PRACTICE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

CONTRACTOR: *Dave Arde* 7-11-23  
NAME DATE  
 ENGINEER'S REP: *Bob Meimann* 8-1-23  
NAME DATE



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C2.1	PROPOSED SITE PLAN - SATURATED BUFFER
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PP1.3	PLAN AND PROFILE - SB
D1.1 - D1.6	WATER CONTROL STRUCTURE DETAILS



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 UTILITIES SHOWN ARE FROM FIELD MARKINGS PROVIDED IN THE FIELD BY THE UTILITY PROVIDERS.  
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2022  
EDGE OF FIELD PRACTICES  
DESIGN OF BOB MEIMANN  
SATURATED BUFFERS

COVER SHEET & LOCATION MAP

PROJECT NO.	210664.00
DATE	4/12/2022
DRAWN BY	G.T.L.
FILE NAME	210664.00-Meimann.dwg
FIELD BOOK	NA
FIELD CRSW	POLK COUNTY
SURVEY FILE NO.	NA
PLAN IN HAND	FIELD
CHECKED BY	FIELD
DATE	4/12/2022
REVISIONS	

C0.1

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# 2021 EDGE OF FIELDS PRACTICES KARMIN KELLOG DENITRIFYING BIOREACTORS KK-1 & KK-3

**ENGINEER:** CALEB RASMUSSEN, PE  
**CONTACT INFO:** COMPANY: JEO CONSULTING GROUP  
 PHONE: 712.792.9711  
 EMAIL: CRASMUSSEN@JEO.COM

### ENGINEER JOB CLASS IV

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.

*Caleb Rasmussen* 4/20/2022  
 (signature) (date)

Printed or typed name: Caleb D. Rasmussen  
 License Number: 25713  
 My license renewal date is December 31, 2022.  
 Pages or sheets covered by this seal: ALL SHEETS IN THE SHEET INDEX

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGEMENT, BELIEF, THE PLANS MEET APPLICABLE NRCS STANDARDS.

ENGINEER'S SIGNATURE: \_\_\_\_\_  
 NAME DATE

I HAVE REVIEWED AND AGREE WITH THE CONTENT OF THE PLAN AND SPECIFICATIONS AS PREPARED:

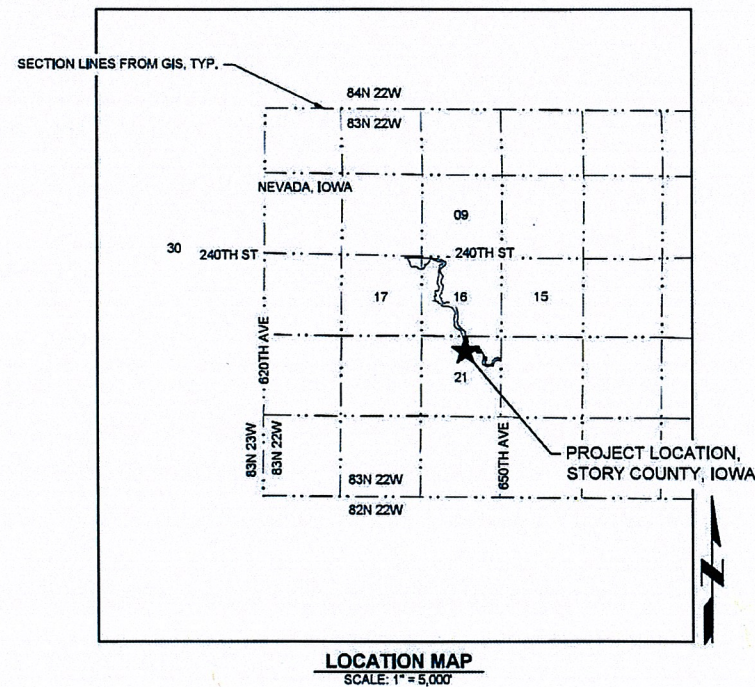
LANDOWNER: \_\_\_\_\_  
 NAME DATE

CONTRACTOR IS RESPONSIBLE FOR CALLING IOWA ONE CALL  
 ONE CALL TICKET NO.: 230170497

IF A CULTURAL RESOURCE IS IDENTIFIED DURING CONSTRUCTION, ALL WORK SHALL HALT, AND THE NRCS ARCHEOLOGIST SHALL BE NOTIFIED IMMEDIATELY, 515.284.4370.

I CERTIFY THAT THIS PRACTICE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

CONTRACTOR: *James Hites* 2-16-23  
 ENGINEER'S REP: *Dan Wirth* 8-1-23



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D2.1	KK-3 BIOREACTOR - TYPICAL DETAIL
D2.2	KK-3 WATER CONTROL STRUCTURE AND STANDARD DETAIL
D2.3	KK-3 TILE EXTENSION DETAIL
D3.1	DETAILS - WATER CONTROL STRUCTURES + CLEANOUT

**NOTE:**  
 NEITHER THE OWNER (CLIENT) NOR JEO CONSULTING GROUP, INC. ASSUMES ANY RESPONSIBILITY FOR UTILITY LOCATIONS BEING ACCURATELY SHOWN OR NOT SHOWN ON THE PLANS.  
 THE EXACT LOCATION AND/OR SIZE OF UNDERGROUND FEATURES MAY NOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. FIELD VERIFICATION OF UTILITIES MAY BE REQUIRED. IT IS RECOMMENDED THAT THE CONSULTANT(S) DESIGNING IMPROVEMENTS ON OR ADJACENT TO THE SITE VERIFY THE PRESENCE OF EXISTING UTILITIES WITH THE APPROPRIATE UTILITY COMPANY.  
 CONTRACTOR(S) SHALL NOTIFY THE RESPECTIVE UTILITY COMPANIES BEFORE COMMENCING ANY WORK.



2021  
EDGE OF FIELDS PRACTICES  
KARMIN KELLOG  
DENITRIFYING BIOREACTORS

COVER SHEET & LOCATION MAP

PROJECT NO.	210861.00
DATE	4/20/2022
DRAWN BY	G.T.L.
FILE NAME	210861.00-Karmin_Kellog.dwg
FIELD BOOK	NONE
FIELD CREW	NONE
SURVEY FILE NO.	24-210861.00
PLAN IN HAND	?
CHECKED BY	J.M.
DATE	12-23-2022
REVISIONS	

C0.1

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