Harrison County Board of Supervisors
111 N 2nd Avenue
Logan, Iowa 51546

Iowa Flood Mitigation Program (FMP)
Flood Recovery Fund - Project Application

Coulthard Levee District

Iowa Flood Mitigation Program (FMP)
Flood Recovery Project Application

I. Applicant Information

A. Applicant/Community Name	B. Address		City, State, Zip Code
Coulthard Levee District	111 N 2nd Ave		Logan, IA 51546

C. Point of Contact (POC) Name for Project	POC Title	POC Agency	POC Email
Walter Utman	Supervisor Trustee	Coulthard	wutman@loganet.net

POC PO Box and Zip Code	POC Street Address	POC City, State, Zip Code	POC Phone
	same as above		402-651-3884

Alternate POC Name or Authorized Representative	Alt POC Title	Alt POC Agency		Alternate POC Email
Liz Lenz	Drainage Clerk	Harrision County		llenz@harrisoncountyia.org

Alt POC PO Box and Zip Code	Alt POC Street Address	Alt POC City, State, Zip Code	Alt POC Phone
	111 N 2nd Ave	Logan, IA 51546	712-644-2401

D. Federal Tax ID # / FEIN	E. County Name	F. US Congressional District(s)	State Legislative Districts	
			Senate	House
[redacted]	Harrison	4	9	17

G. Is the Applicant/Community participating in the National Flood Insurance Program (NFIP)?	Community's CID Number
yes	190143

II. Project Cost Information

A. Identify the requested funding source: Permanent Work

B. Project Budget Summary

Land rights acquisition	$	20,050.00
Construction	$	4,176,315.00
Engineering	$	221,600.00
Legal	$	10,000.00
	$	-
	$	-
* note - this total reflects corrections to engineer report math error	$	-
	$	-
	$	-
	$	-
Total Project Budget Summary	**$**	**4,427,965.00**

C. Project Funding Source

Identify all anticipated funding sources for the project and the amounts.

State that you have applied for and/or received approved federal, state and/or local financial assistance.

Please insert additional rows as needed.

Identify source	Applied/ Received	Federal $	State $	Local $	TOTAL
FRF Funding - Coulthard Levee			$ 4,427,965.00		$ 4,427,965.00
					$ -
					$ -
					$ -
					$ -
					$ -
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					$ -
					$ -
					$ -
Total Project Funding Source		$ -	$ 4,427,965.00	$ -	$ 4,427,965.00

III. Project Plan Summary

A. Provide a brief description of the project and how the project supported flood response or will support future flood recovery and flood mitigation activities. This is a summary of Tab B - Project Plan.

This project calls for the repair of a major and complete breach on the Coulthard Levee residing within DeSoto Bend National Wildlife Refuge. This significant breach, if unchecked prior to new onset and anticipated spring flooding, will continue to allow unobstructed Missouri River inflows during highwater and flood level events into the county and the refuge, impacting the agricultural sector, county transportation infrastructure (including critical farm-to-market roads), the federal refuge, and initiate a chain of cascading events that damage other levee and drainage protection structures south of the existing site. This impact ultimately leads to closures at or around Interstate 29. This repair will help contain floodwater while significantly mitigating risk to the levee, property, the adjoining Vanman Levee and critical state and local transportion infrastructure within (2) counties. The project will also contribute to increased public safety.

B. Provide a brief description of the financial assistance need through the Flood Recovery Fund.

Many levee and drainage districts in the area are still paying off debt incurred by the 2011 Missouri River flooding. Local funding capacity is not available to make these critical repairs without further burdening property owners. Additionally, the existing repair plans along the Vanman Levee to the south will be completely at risk if this levee breach cannot receive the required funding to repair. As this breach site rests within DeSoto Bend, difficulties have been encoutered - identical to the Vanman Levee in dealing with access authorization by federal authorities to address issues resulting from the 2011 flood events and continuing. With this in mind and the obstacles encoutered by the adjoining Vanman, there is a significant likelihood for denial of FEMA public assistance funding this year to make repairs due to a technical "pre-existing and unmaintained damages" condition, that is of no fault of the district since access to the levee areas within the refuge for Vanman and Coulthard have been historically denied. Without this funding it is more than likely that the levee breaches will remain, due to a lack of funding and the next high water or even minor flooding event will inundate the southwest and northwest sectors of Harrison and Pottawattamie counties, respectively.

C. Explain how financial assistance through the Flood Recovery Fund is essential to meet the necessary expenses or serious needs of the applicant related to flood response, flood recovery, and flood mitigation.

The approval of funding from the FRF is beyond essential for this project. First, and foremost, as the situation caused by access denial of the federal government prior to and after 2011, the damages cannot be solely attributed to this 2019 disaster rendering it ineligible for FEMA assistance, per their program policy. The proposed project in this application will decrease emergency response requirement during future flood events, lessen recovery costs of future flood events, thus mitigating a significant risk to private and public property and critical infrastructure of local, county, and state governments.

D. Provide details of any additional funds that can be applied to the project.

None unless FEMA approves a policy exception along with the Vanman Levee.

E . Description of Project Location (i.e. Latitude and Longitude (minimum 6 digits after the decimal), Neighborhood, Subdivision, Geographic Boundaries, Driving Directions, etc.)

41.517796, -95.988099
41.50200, -95.998134

IV. Work Schedule

A. List the major milestones for this project.

Task	Months/Years from Award			Responsible Party
	Start	Complete		
Entire scope of project	3/1/2020	6/1/2020		District and contracted engineer
Total Project Duration:	4			

V. Certifications

To the best of my knowledge and belief, I certify that all data in this application packet is complete, true and correct. The governing body of the applicant has duly authorized this document and hereby applies for assistance as documented in this application. The applicant understands that the project shall not proceed until Flood Mitigation Board approval is granted.

[redacted]

Walter Utman

Name of the Chief Executive Officer

Supervisor Trustee

Title

Coulthard Levee District

Organization

February 3, 2020

Date

712-592-1150

Phone Number

[redacted]

epresentative

Liz Lenz

Name of Authorized Representative

Drainage Clerk

Title

Harrison County, iowa

Organization

February 3, 2020

Date

111 N 2nd Ave

PO Box / Street Address

Logan, IA 51546

City, State and Zip Code

712-644-2401

Phone Number

llenz@harrisoncountyia.org

Email Address

Project Plan

Applicant: **Coulthard**

Political subdivision shall attach to the Flood Recovery Project Application the project plan.

Project plan shall include:

1. **a. A detailed description of the project Scope of Work.**

   i. How the project supported flood response or will support future flood recovery and flood mitigation activities.

   This project will provide funding to repair a large and significant breach to the levee segment located within the USFWS DeSoto Bend National Wildlife Refuge. This repair site is critical to the future protection of agricultural infrastructure of Harrsion County, the fedreal refuge, and to the integrity of the Vanman Levee, agricultural, residential, and critical transportation infrastructure of both local and state government jurisdiction within Harrision and Pottawattamie Counties.

   ii. Map(s) identifying project area. See attached maps.

   See attached maps showing the properties and locational area within Pottawattamie County

2. **a. An estimated cost of the project (detailed budget):**

   i. A detailed description of the amount of funds expended to date and the funding source.

   None.

3. **a. If available: A copy of the application(s) from other funding sources and subsequent approval letter(s).**

   Available via FEMA Grants Portal.

STATE OF IOWA
DESIGNATION OF APPLICANT'S AUTHORIZED REPRESENTATIVE

Liz Lenz is hereby authorized to execute on behalf of
(Name of Representative)

Coulthard Levee District this mitigation project and to file it with
(Applicant Entity)

Iowa Homeland Security and Emergency Management (HSEMD) for the purpose of obtaining financial assistance under the Flood Mitigation Bill, Senate File 2217.

Signed 2/3/2020
(Date)

Walter Utman
Chief Executive Officer
(Print Name and Title)
[redacted]
(Signature)

Liz Lenz, Drainage Clerk
Applicant's Authorized Representative
[redacted]
(Signature)

Attested: Doug Reed, PCEMA Director
(Print Name and Title)
[redacted]
(Signature)

91-522
625-1366

SUBSTITUTE W 9 / VENDOR UPDATE FORM

CPK-45933

(Please print or type except for signature)

In order for the State of Iowa to pay you the amount that is due to you and to comply with the IRS regulations on reporting these payments, we are requesting the following information. Failure to provide this information will result in withholding of payment.

BOX A

Are you/your business:

	YES	NO
Individual [I]		X
or **Sole Proprietorship [S]**		X

If the answer to both was no, please complete Box B.

If you answered yes to either item, please provide Your Social Security number:

_____ - _____ - _____

AND

Complete the Name and Address below:

Last Name: First Name: MI

Doing Business As:

Address:

Address:

City: State Zip

BOX B

Is your business:

		YES	NO
Corporation	[C]		
Partnership	[P]		
Estate of Trust	[E]		
Public Service Corp	[U]		
Government	[G]	x	
Other	[O]		

Please Explain:

Please provide us with your **Federal Employer Identification number:**

[redacted]

AND

Complete the Name and Address below:

Last Name: First Name: MI

Utman Walter

Doing Business As:
Coulthard Levee District

Address:
111 N 2nd Ave

Address:

City, State Zip
Logan, IA 51546

CERTIFICATION MUST BE SIGNED BY VENDOR

Certification - Under penalties of perjury, I certify that:

(1) The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and

(2) I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividend, or (c) the IRS has notified me that I am no longer subject to backup withholding.

Signature [redacted] Date: 2/3/2020

FOR OFFICE USE ONLY (Refer to Procedure 270.450 for more details)

From:
Dept.

Contact:

Added For Purchasing:

☐ Yes ☐ No

☐ Add

☐ Change
(Include vendor code and changes only)

☐ Delete

Reason:

Minority Impact Statement

Pursuant to 2008 Iowa Acts, HF 2393, Iowa Code Section 8.11, all funding applications submitted to the State of Iowa shall include a Minority Impact Statement. This is the state's mechanism to require applicants to consider the potential impact of the project's proposed programs or policies on minority groups.

Please choose the statement(s) that pertains to this application. Complete all the information requested for the chosen statement(s).

☐ The proposed project programs or policies could have a disproportionate or unique **positive** impact on minority persons.

Describe the positive impact expected from this project

Indicate which group is impacted:

- ☐ Women
- ☐ Persons with a Disability
- ☐ Blacks
- ☐ Latinos
- ☐ Asians
- ☐ Pacific Islanders
- ☐ American Indians
- ☐ Alaskan Native Americans
- ☐ Other

☐ The proposed project programs or policies could have a disproportionate or unique **negative** impact on minority persons.

Describe the negative impact expected from this project

Present the rationale for the existence of the proposed program or policy.

Provide evidence of consultation of representatives of the minority groups impacted.

Indicate which group is impacted:

- ☐ Women
- ☐ Persons with a Disability
- ☐ Blacks

☐ Latinos

☐ Asians

☐ Pacific Islanders

☐ American Indians

☐ Alaskan Native Americans

☐ Other

[X] The proposed project programs or policies are **not expected to have** a disproportionate or unique impact on minority persons.

Present the rationale for determining no impact.
The restoration of drainage and levee district structures and facilities will protect persons of all classes of persons regardles of their demographic.

I hereby certify that the information on this form is complete and accurate, to the best of my knowledge:

Walter Utman
Printed Name

Supervisor Trustee
Title

[redacted]

2/3/2020
Date

Definitions

"Minority Persons", as defined in Iowa Code Section 8.11, mean individuals who are women, persons with a disability, Blacks, Latinos, Asians or Pacific Islanders, American Indians, and Alaskan Native Americans.

"Disability", as defined in Iowa Code Section 15.102, subsection 5, paragraph "b", subparagraph (1):
b. As used in this subsection:

(1) "*Disability*" means, with respect to an individual, a physical or mental impairment that substantially limits one or more of the major life activities of the individual, a record of physical or mental impairment that substantially limits one or more of the major life activities of the individual, or being regarded as an individual with a physical or mental impairment that substantially limits one or more of the major life activities of the individual.

"*Disability*" does not include any of the following:

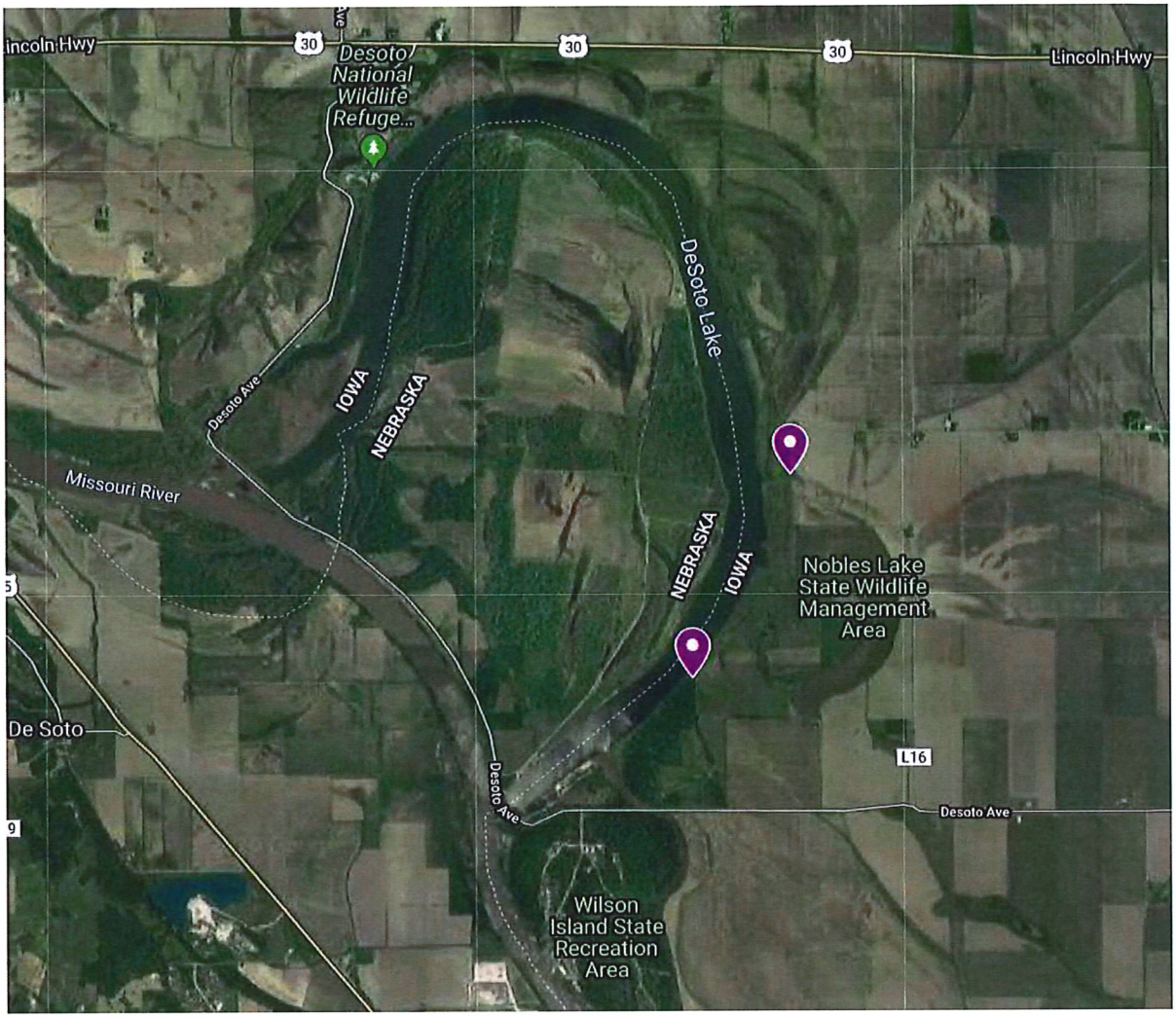
(a) Homosexual or bisexuality.

(b) Transvestism, transsexualism, pedophilia, exhibitionism, voyeurism, gender identity disorders not resulting from physical impairments or other sexual behavior disorders.

(c) Compulsive gambling, kleptomania, or pyromania

(d) Psychoactive substance abuse disorders resulting from current illegal use of drugs.

"State Agency", as defined in Iowa Code Section 8.11, means a department, board, bureau, commission, or other agency or authority of the State of Iowa.


incoln Hwy
30
30
30
Lincoln Hwy
Desoto National Wildlife Refuge...
DeSoto Lake
IOWA
NEBRASKA
Desoto Ave
Missouri River
NEBRASKA
IOWA
Nobles Lake State Wildlife Management Area
De Soto
L16
Desoto Ave
Desoto Ave
Wilson Island State Recreation Area

SUNDQUIST ENGINEERING, P.C.

CLIENT: Coulthard Levee District
PREPARED BY: TJG/tkk
S.E. PROJECT NO: 61919
DATE: 01/20/20

2019 FLOOD REPAIRS
COULTHARD LEVEE DISTRICT
HARRISON & POTTAWATTAMIE COUNTIES, IOWA

OPINION OF PROBABLE CONSTRUCTION COSTS

ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL	UNIT PRICE	TOTAL COST
1	2101-0850001	CLEARING AND GRUBBING	ACRE	37.5	$ 5,000.00	$ 187,500.00
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	193576	20.00	3,871,520.00
3	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	1831.4	7.00	12,819.80
4	2533-4980005	MOBILIZATION	LS	1	80,000.00	80,000.00
5	2599-9999005	LEVEE ACCESS GATE	EACH	2	5,000.00	10,000.00
6	2601-2634100	MULCHING	ACRE	3.1	600.00	1,860.00
7	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	3.1	150.00	465.00
8	2602-0000020	SILT FENCE	LF	4050	3.00	12,150.00
	TOTAL					$ 4,176,314.80

SUNDQUIST ENGINEERING, P.C.

CLIENT: Coulthard Levee District
PREPARED BY: TJG/tkk
S.E. PROJECT NO: 61919
DATE: 01/20/20

2019 FLOOD REPAIRS
COULTHARD LEVEE DISTRICT
HARRISON & POTTAWATTAMIE COUNTIES, IOWA

OPINION OF PROBABLE PROJECT COSTS

ITEM	COST
LAND RIGHTS ACQUISITION	$ 20,050.00
CONSTRUCTION	4,176,000.00
ENGINEERING	221,600.00
LEGAL	10,000.00
TOTAL PROJECT COST	$ 4,427,650.00

CONSTRUCTION PLANS FOR:

2019 FLOOD REPAIRS
COULTHARD LEVEE DISTRICT
HARRISON & POTTAWATTAMIE COUNTIES, IOWA

SCALES: As Noted

PERMITS

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT 3. PERMIT NO. A COPY OF THIS PERMIT IS AVAILABLE FROM THE ENGINEER UPON REQUEST. THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.

THIS PROJECT IS COVERED BY IOWA DNR FLOODPLAIN CONSTRUCTION PERMIT NO.

THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO. 2 AND THE STORM WATER POLLUTION PREVENTION PLAN WHICH IS A PART OF THESE CONTRACT DOCUMENTS.

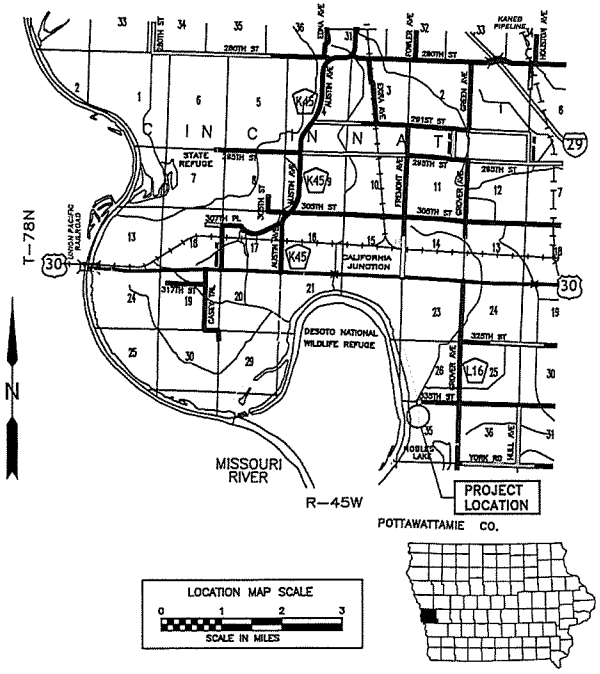
DRAWING APPROVAL

ALL SHOP DRAWINGS THAT REQUIRE APPROVAL SHALL BE APPROVED BY SUNDQUIST ENGINEERING, P.C.

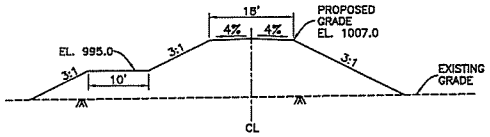
ADDRESS: 120 SOUTH MAIN, P.O. BOX 220
DENISON, IOWA 51442-0220
TELEPHONE: (712)263-8118

INDEX OF SHEETS

NO.	DESCRIPTION
A1	TITLE SHEET
D1	LEVEE PLAN & PROFILE
R1-2	POLLUTION PREVENTION PLAN



LOCATION MAP SCALE
0 1 2 3
SCALE IN MILES



TYPICAL CROSS SECTION
NOT TO SCALE

IOWA ONE CALL
CALL BEFORE YOU DIG!
1-800-292-8989
www.iowaonecall.com

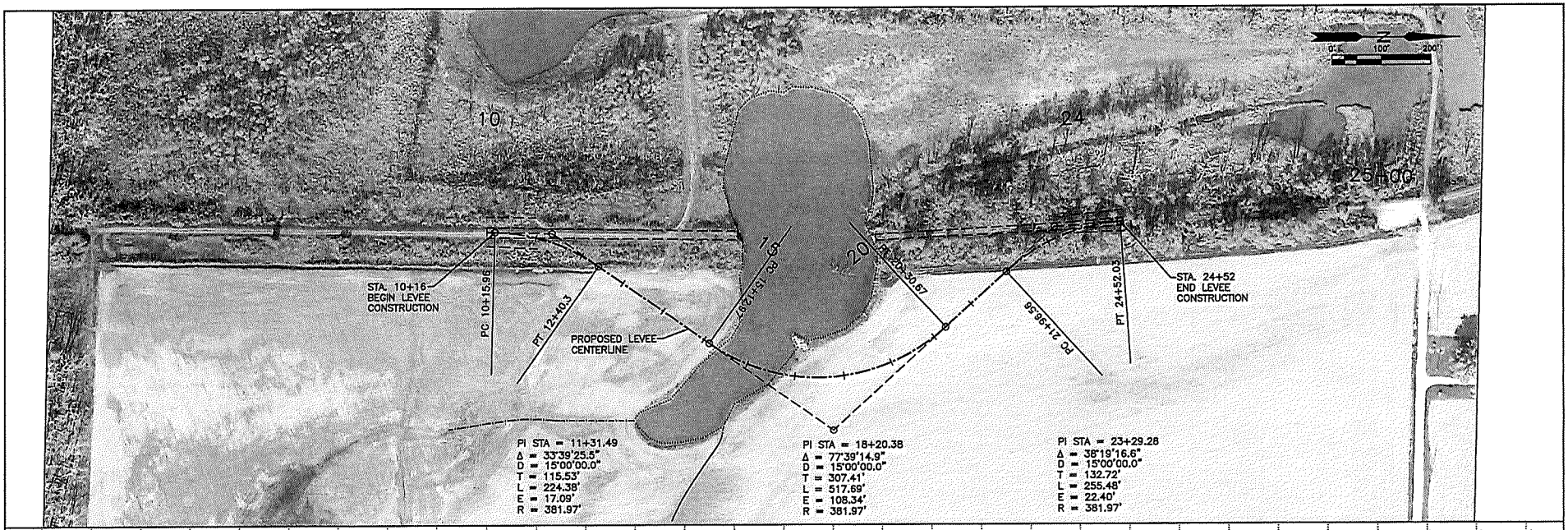
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

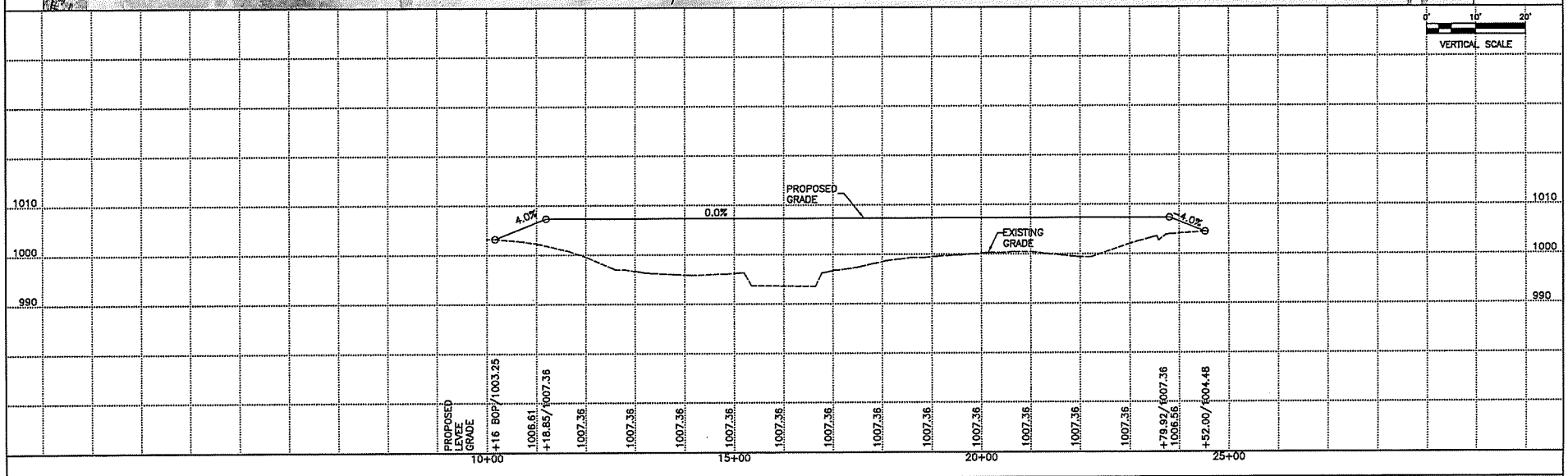
LICENSED PROFESSIONAL ENGINEER TROY J. GROTH 14450 IOWA

TROY J. GROTH, P.E. #14450 01/20/2020 DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021.

PAGES OR SHEETS COVERED BY THIS SEAL:
ALL SHEETS





REV:

SUNDQUIST ENGINEERING, P.C. | 120 S. MAIN, P.O. BOX 220, DENISON, IOWA 51442 P712 263 8118 F712 263 2181 SUNDQUISTENGINEERING.COM

SE PROJECT NO. 61919 DATE: 01/2020 DRAWN BY: TKK REVIEWED BY: TJG APPROVED BY: TJG

CLIENT: HARRISON AND POTTAWATTAMIE COUNTIES DESCRIPTION: LEVEE PLAN AND PROFILE

SHEET D1

POLLUTION PREVENTION PLAN

110-12L
10-16-18

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed per plan revisions or by contract modification, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The prime contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITIES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP.

B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted.
5. Supervises and implements good housekeeping practices.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.

Complies with training and certification requirements of Section 2602 of the Standard Specifications.

C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if responsible for sediment or erosion controls or involved in land disturbing activities. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices.

D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
6. Is familiar with the Project PPP and storm water site map.
7. Is the point of contact for the Project for regulatory officials, inspector, contractors, and subcontractors regarding storm water requirements.
8. Is signature authority on Notice of Discontinuation.

E. Inspector:
1. Updates PPP whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Maintains an up-to-date record that identifies contractors and subcontractors as co-permittees.
3. Makes these plans available to the DNR upon their request.
4. Conducts joint required inspections of the site with the contractor/subcontractor.
5. Completes an inspection report after each inspection.
6. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the repair of flood damage to the Coulthard Levee in the NW¼ of Section 35, T-78N, R-45W, Harrison County, Iowa.

B. This PPP covers approximately 19.7 acres with an estimated 2.0 acres being disturbed. The portion of the PPP covered by this contract has 2.0 acres disturbed.

C. The PPP is located in an area of one soil association (Monona-Ida-Napier). The estimated weighted average runoff coefficient number for this PPP after completion will be 0.2.

D. Storm Water Site Map – Multiple sources of information comprise the base storm water site map including:
1. Drainage patterns – Plan and Profile sheets and Situation plans.
2. Proposed Slopes – Cross Sections.
3. Areas of Soil Disturbance – Construction limits shown on Plan and Profile sheets.
4. Location of Structural Controls – Tabulations on C sheets.
5. Locations of Non-structural Controls – Tabulations on C sheets.
6. Locations of Stabilization Practices – Generally within construction limits shown on Plan and Profile sheets.
7. Surface Waters (including wetlands) – Project Location Map and Plan and Profile sheets.
8. Locations where Storm Water is Discharged – Plan and Profile sheets.

E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries.

F. Runoff from this work will flow into Missouri River.

POLLUTION PREVENTION PLAN

110-12L
10-16-18

III. CONTROLS

A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.

B. Preserve vegetation in areas not needed for construction.

C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract tems, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices
1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
a) Permanently ceased on any portion of the site, or
b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets.
5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in Tabulations in the C or T sheets or is referenced in Section 2105 of Standard Specifications.

b. Structural Practices
1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
2) Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets.

c. Storm Water Management
1) Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located on the C sheets of the plan, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS

a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply.
1) Vehicle Entrances and Exits – Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
2) Material Delivery, Storage and Use – Implement practices to prevent discharge of construction materials during delivery, storage, and use.
3) Stockpile Management – Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
4) Waste Disposal – Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
5) Spill Prevention and Control – Implement chemical spill and leak prevention and response procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state.
6) Concrete Residuals and Washout Wastes – Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
7) Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
8) Vehicle and Equipment Storage and Maintenance Areas – Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of on site fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
9) Litter Management – Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
10) Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS
During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES
The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the Contractor and the Contracting Authority at least once every seven calendar days. Storm water monitoring inspections will include:
   1. Date of the inspection.
   2. Summary of the scope of the inspection.
   3. Name and qualifications of the personnel making the inspection.
   4. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
   5. Major observations related to the implementation of the PPP.
   6. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water monitoring inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON–STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT–OF–WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right–of–way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

A. Base PPP – Initial Pollution Prevention Plan.
B. Amended PPP – May include Plan Revisions or Contract Modifications for new items, storm water monitoring inspection reports, and fieldbook entries made by the inspector.
C. IDR – Inspector's Daily Report – this contains the Inspector's daily diary and bid item postings.
D. Controls – Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
E. Signature Authority – Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature	Signature
Printed or Typed Name	Printed or Typed Name

POLLUTION PREVENTION PLAN
110–12L
10–16–18