Iowa Flood Mitigation Program (FMP)
Flood Recovery Project Application

I. Applicant Information

A. Applicant/Community Name	B. Address		City, State, Zip Code
Pony Creek Drainage District	10 North Walnut Street	P.O. Box 189	Glenwood, Iowa 51534

C. Point of Contact (POC) Name for Project	POC Title	POC Agency	POC Email
Jay Christensen	Chairperson		prositecompany@gmail.com

POC PO Box and Zip Code	POC Street Address	POC City, State, Zip Code	POC Phone
51561	18294 Jardine Avenue	Pacific Junction, Iowa 51561	(402) 677-5609

Alternate POC Name or Authorized Representative	Alt POC Title	Alt POC Agency		Alternate POC Email
Matthew G. Woods	Attorney/Secretary	Woods, Wyatt & Tucker, PLLC		matt.woods@woodswyattlaw.com

Alt POC PO Box and Zip Code	Alt POC Street Address	Alt POC City, State, Zip Code	Alt POC Phone
P.O. Box 189, 51534	10 North Walnut Street	Glenwood, Iowa 51534	(712) 527-4877

D. Federal Tax ID # / FEIN	E. County Name	F. US Congressional District(s)	State Legislative Districts	
			Senate	House
[redacted]	Mills	3	12	23

G. Is the Applicant/Community participating in the National Flood Insurance Program (NFIP)?	Community's CID Number
No	

II. Project Cost Information - Pony Creek

A. Identify the requested funding source: Permanent Work

B. Project Budget Summary

Task Order No. 2 - Debris and Silt Removal	$ 302,000.00
Task Order No. 3 - Pumping Station Replacement	$ 690,600.00
Engineering	$ 159,700.00
Administrative Costs (5%)	$ 57,615.00
Total Project Budget Summary	**$ 1,209,915.00**

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
		$ 226,500.00			$ 226,500.00
			$ 30,200.00		$ 30,200.00
				$ 45,300.00	$ 45,300.00
		$ 517,950.00			$ 517,950.00
			$ 69,060.00		$ 69,060.00
				$ 103,590.00	$ 103,590.00
		$ 159,700.00			$ 159,700.00
			$ -		$ -
				$ -	$ -
		$ 43,211.25			$ 43,211.25
			$ 5,761.50		$ 5,761.50
				$ 8,642.25	$ 8,642.25
		$ -			$ -
			$ -		$ -
				$ -	$ -
					$ -
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					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
					$ -
Total Project Funding Source		$ 947,361.25	$ 105,021.50	$ 157,532.25	$ 1,209,915.00

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.
Removal of debris from within the District, removal of silt from existing ditches, replacement of existing stormwater pumping station used to vacate the interior ditches of the District through the Levee.

B. Provide a brief description of the financial assistance need through the Flood Recovery Fund.
Due to the amounts of debris, silt, and damaged infrastructure throughout the District, we are requesting funds to help with the improvements.

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.
At this time, the District has not assessed for anything more than a typical years' operation and maintenance costs. The cost of the flood damages greatly outweighs the typical assessment value.

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

E . Description of Project Location (i.e. Latitude and Longitude (minimum 6 digits after the decimal), Neighborhood, Subdivision, Geographic Boundaries, Driving Directions, etc.)
A copy of the plans for the debris/silt removal has been attached showing locations of the improvements

IV. Work Schedule

A. List the major milestones for this project.

Task	Months/Years from Award			Responsible Party
	Start	Complete		
Debris / Silt Removal	2/15/2020	5/1/2020		Contractor; will be bid
Pumping Station Replacement	3/15/2020	6/1/2020		Contractor; will be bid

Total Project Duration: 36

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.

Signature of the Chief Executive Officer

Name of the Chief Executive Officer

Title

Organization

Date

Phone Number

Signature of the Authorized Representative

Name of Authorized Representative

Title

Organization

Date

PO Box / Street Address

City, State and Zip Code

Phone Number

Email Address

Project Plan

Applicant: **Pony Creek Drainage District**

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.

   Project consists of debris removal and silt removal to restore drainage along the Pony Creek Drainage Ditch, and access road and berm embankment repair of flood-damaged areas along the ditch. Project will also include the replacement of three stormwater pumping stations located within the district.

   ii. Map(s) identifying project area.

   See attached plan set.

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.

   See attached.

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

OLMSTED & PERRY CONSULTING ENGINEERS INC.

10730 PACIFIC STREET SUITE #232 OMAHA, NEBRASKA 68114
2019 FLOOD RECOVERY
PONY CREEK DRAINAGE DISTRICT
MILLS COUNTY, IOWA

PROJECT NO. 19043
DATE: 1/30/2020

OPINION OF PROBABLE CONSTRUCTION COSTS DRAFT

TASK ORDER NO. 3

NO.	BID ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
1	SITE PREPARATION / MOBILIZATION	1.0	LS	$20,000.00	$20,000.00
2	REPLACE 100 HP PUMP AND MOTOR - PUMP #1	1.0	EA	$50,000.00	$50,000.00
3	RAISE AND REPLACE 460 V ELECTRICAL CONTROL PANEL AND SERVICE - PUMP #1	1.0	EA	$40,000.00	$40,000.00
4	REPLACE 30 HP PUMP AND MOTOR - PUMP #	2.0	EA	$30,000.00	$60,000.00
5	REPLACE 15 HP PUMP AND MOTOR	2.0	EA	$27,000.00	$54,000.00
6	RAISE AND REPLACE 240 V ELECTRICAL CONTROL PANEL AND SERVICE - PUMPS #2-5	4.0	EA	$40,000.00	$160,000.00
7	TESTING ALLOWANCE	1.0	LS	$1,500.00	$1,500.00

CONSTRUCTION COST	**$385,500.00**
CONTINGENCY @20%	$77,100.00
TOTAL CONSTRUCTION COST	**$462,600.00**
SOFT COSTS	
TOTAL PROJECT COST	**$462,600.00**

Items not included:

1.
2.
3.
4.
5.

The following opinion of probable project costs has been prepared based on the schematic layouts. The opinion of probable project costs are based on assumptions and no engineering design has been conducted. These are intended to be used as tools for resources and fund allocation by the client. A final opinion of probable project costs will be provided upon completion of engineered construction drawings. The opinion of probable project costs does not reflect unforeseen changes in fuel, oil, pvc, portland cement, steel prices or construction costs.

OLMSTED & PERRY CONSULTING ENGINEERS INC.

10730 PACIFIC STREET SUITE #232 OMAHA, NEBRASKA 68114
2019 FLOOD RECOVERY
PONY CREEK DRAINAGE DISTRICT
MILLS COUNTY, IOWA

PROJECT NO. 19043
DATE: 1/30/2020

OPINION OF PROBABLE CONSTRUCTION COSTS DRAFT

TASK ORDER NO. 2

NO.	BID ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
	PART A				
1	SITE PREPARATION / MOBILIZATION	1.0	LS	$2,500.00	$2,500.00
2	DEBRIS REMOVAL	2,593.0	CY	$20.00	$51,860.00
	TOTAL UNIT PRICE BID - PART A			$54,360.00	
	PART B				
3	SITE PREPARATION / MOBILIZATION	1.0	LS	$2,500.00	$2,500.00
4	INSTALL EMBANKMENT	2,878.0	CY	$15.00	$43,170.00
5	INSTALL CRUSHED ROCK FOR ACCESS DRIVE	510.0	TON	$33.00	$16,830.00
6	SILT REMOVAL	12,598.0	CY	$10.00	$125,980.00
7	SURFACE RESTORATION / SEEDING	1.0	LS	$5,000.00	$5,000.00
8	TESTING ALLOWANCE	1.0	LS	$3,500.00	$3,500.00
	TOTAL UNIT PRICE BID - PART B			$196,980.00	

CONSTRUCTION COST	**$251,340.00**
CONTINGENCY @20%	$50,268.00
TOTAL CONSTRUCTION COST	**$301,608.00**
SOFT COSTS	
TOTAL PROJECT COST	**$301,608.00**

Items not included:

1.
2.
3.
4.
5.

The following opinion of probable project costs has been prepared based on the schematic layouts. The opinion of probable project costs are based on assumptions and no engineering design has been conducted. These are intended to be used as tools for resources and fund allocation by the client. A final opinion of probable project costs will be provided upon completion of engineered construction drawings. The opinion of probable project costs does not reflect unforeseen changes in fuel, oil, pvc, portland cement, steel prices or construction costs.

2019 FLOOD RECOVERY
PONY CREEK DRAINAGE DISTRICT

MILLS COUNTY, IOWA

JANUARY 2020

1. DEBRIS REMOVAL FROM DRAINAGE DITCH
2. BERM EMBANKMENT REPAIR
3. SILT REMOVAL FROM DRAINAGE DITCH

IMPROVEMENT LOCATION MAP

TRUSTEES

JAY CHRISTENSEN, CHAIRPERSON	(402) 677-5609
RODNEY BENTS	(402) 616-1296
RON SARGENT	(402) 690-2527

APPROXIMATE QUANTITIES

ITEM NO.	BID ITEM DESCRIPTION	QUANTITY	UNIT	RECORD QUANTITY
1	SITE PREPARATION / MOBILIZATION	1.0	LS	
2	DEBRIS REMOVAL	2,533.0	CY	
3	INSTALL EMBANKMENT	2,878.0	CY	
4	INSTALL CRUSHED ROCK FOR ACCESS DRIVE	510.0	TON	
5	SILT REMOVAL	12,555.0	CY	
6	SURFACE RESTORATION / SEEDING	1.0	LS	
7	TESTING ALLOWANCE	1.0	LS	

811 Know what's below. Call before you dig.

UTILITY INFORMATION

EXISTING UTILITIES, UNDERGROUND STRUCTURES AND SERVICES WERE LOCATED FROM EXISTING OWNER RECORDS, MAPS AND ONE-CALL DIGGERS HOTLINE PAINT DESIGNATION LINES IN THE FIELD. THE ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. VERIFICATION OF ALL UTILITIES AND SERVICES SHOULD BE OBTAINED FROM THE OWNER OF EACH RESPECTIVE UTILITY COMPANY PRIOR TO DESIGN, CONSTRUCTION AND EXCAVATION.

LICENSED PROFESSIONAL ENGINEER JAMES J. OLMSTED 8642 IOWA

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.

#8642

JAMES J. OLMSTED, P.E. DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021.

SHEETS COVERED BY THIS SEAL: ALL SHEETS

OLMSTED & PERRY CONSULTING ENGINEERS INC.
10730 PACIFIC STREET SUITE 232
OMAHA, NEBRASKA

REVISIONS

2019 FLOOD RECOVERY
PONY CREEK DRAINAGE DISTRICT
MILLS COUNTY, IOWA

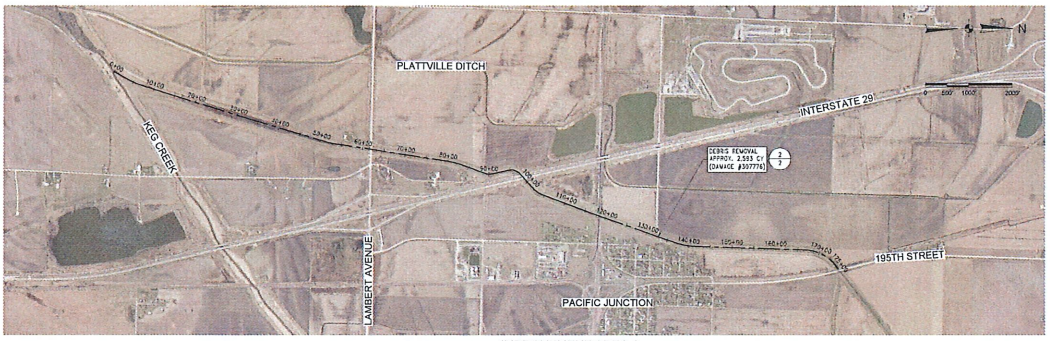
DESIGNED BY: JFZ
CHECKED BY: JJO
DRAWN BY: ACM

TITLE SHEET
& IMPROVEMENT LOCATION MAP

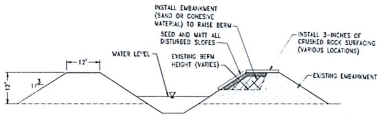
PROJECT NO. 19043
DATE JANUARY 2020

SHEET NO. 1 of 2

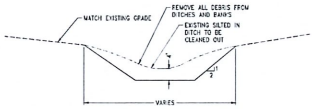
[DATE: 2/7/2020 Plot Date: 1/27/2020 2:48 PM]



IMPROVEMENT AREA 1
DEBRIS REMOVAL



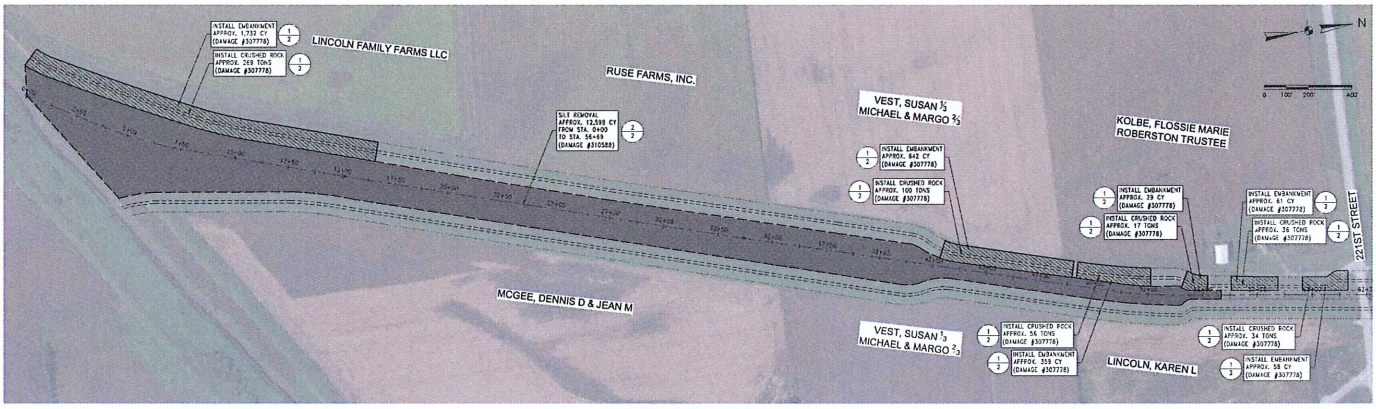
1/2 TYPICAL BERM CROSS SECTION
NO SCALE



2/2 DRAINAGE DITCH DEBRIS / SILT REMOVAL
NO SCALE

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. NO WORK SHALL BE PERFORMED BETWEEN 7 P.M. AND 7 A.M. ON ANY GIVEN DAY OR SUNDAYS OR HOLIDAYS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
3. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREAS. DO NOT ALLOW WATER TO DRAIN OR TO POND ON PRIVATE PROPERTY.
4. ALL CONSTRUCTION ITEMS CALLED OUT ON THE DRAWINGS AND/OR SPECIFICATIONS, WHICH ARE NOT LISTED ON THE APPROXIMATE QUANTITIES OR BID FORM, SHALL BE CONSIDERED INCIDENTAL CONSTRUCTION (INFI).
5. ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE HAULED OFF-SITE AND PROPERLY DISPOSED. DEBRIS SHALL BE DISPOSED AT THE LOESS HILLS REGIONAL SANITARY LANDFILL. ALL CLEARING & GRUBBING REMOVAL SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER & APPROVED BY THE DISTRICT. DEBRIS REMOVAL INCLUDES MIXED VEGETATION, WOODY DEBRIS, AND SOME MAN-MADE LUMBER. ALL QUANTITIES ARE ESTIMATES.
6. CONTRACTOR SHALL PROVIDE MEASURES TO MINIMIZE DUST CONTROL.
7. PROVIDE SMOOTH GRADE TRANSITIONS BETWEEN VARYING SLOPES TO AVOID ABRUPT CHANGES IN GRADE.
8. EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE.
9. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER AND PER THE PROJECT MANUAL.
10. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN SC-150 OR EQUAL.
11. ALL EMBANKMENT QUANTITIES ARE ESTIMATES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENOUGH FILL / EMBANKMENT MATERIAL TO RETURN BERMS TO PREVIOUS ELEVATIONS AND SLOPES.
12. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A CONSTRUCTION ENTRANCE AT ANY LOCATION WHERE MACHINERY WILL EXIT/ENTER A TRAVELED ROADWAY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STABILIZED CONSTRUCTION ENTRANCES, ROADS INTO THE PROJECT SITES (AS NEEDED), AND ALL REMOVAL AND RESTORATION TO EXISTING CONDITIONS.
13. THE BERMS SHALL BE FIXED BY ONE OF THE FOLLOWING OPTIONS:
    A) SAND FILL WITH A CLAY CAP
    B) COHESIVE SOIL THROUGHOUT
14. MILLS COUNTY REQUIRES A $0.35/CY FEE FOR ALL MATERIAL HAULED WITHIN THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THIS FEE IN HIS BID AND FOR PAYMENT TO THE COUNTY.
15. THE CONTRACTOR SHALL DECOMPACT ALL DISTURBED AGRICULTURAL AREAS BY CONSTRUCTION OPERATIONS. DECOMPACT WITH A HEAVY DUTY CHISEL PLOW OR DEEP RIPPER AND AS DIRECTED BY THE ENGINEER.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FILL MATERIAL. ALL BORROW SITES SHALL BE APPROVED BY THE TRUSTEES AND THE ENGINEER.
17. SILT REMOVAL CONSISTS OF REMOVAL OF ALL DEPOSITED SILT WITHIN THE DRAINAGE DITCH AND RESTORATION OF DRAINAGE FUNCTION TO DRAINAGE DITCH. WORK ALSO INCLUDES THE FLUSHING OF ALL CULVERTS LOCATED IN THE DITCHES.



IMPROVEMENT AREA 2
EMBANKMENT & ACCESS ROAD

OLMSTED & PERRY CONSULTING ENGINEERS INC.
10730 PACIFIC STREET
OMAHA, NEBRASKA SUITE 232

REVISIONS

2019 FLOOD RECOVERY
PONY CREEK DRAINAGE DISTRICT
MILLS COUNTY, IOWA

DESIGNED BY: JPZ
CHECKED BY: JPZ
DRAWN BY: AJM

IMPROVEMENT AREAS

PROJECT NO. 19043
DATE JANUARY 2020

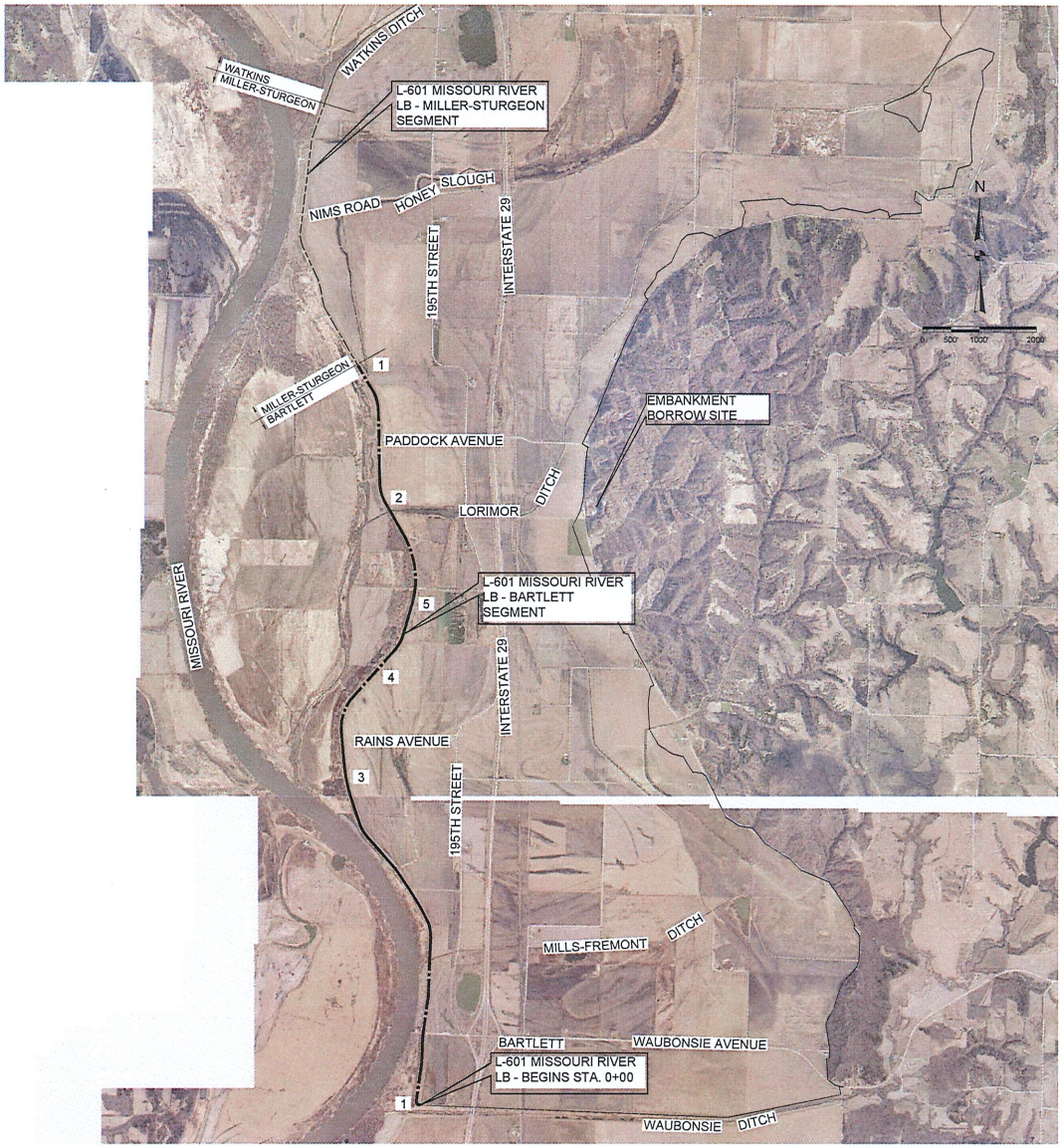
SHEET NO. 2 of 2

2019 FLOOD RECOVERY
L-601 MISSOURI RIVER LB
- BARTLETT SEGMENT
LEVEE DISTRICT

MILLS COUNTY, IOWA

JANUARY 2020

1. DEBRIS REMOVAL FROM LEVEE
2. REMOVAL OF DAMAGED PUMPING STATION
3. LEVEE EMBANKMENT REPAIR



IMPROVEMENT LOCATION MAP

TRUSTEES

CHRISTOPHER DASHNER, CHAIRPERSON	(712) 527-0158
WAYNE STOUDER	(402) 306-5878
RON SARGENT	(402) 690-2527

APPROXIMATE QUANTITIES

ITEM NO.	BID ITEM DESCRIPTION	QUANTITY	UNIT	RECORD QUANTITY
1	SITE PREPARATION / MOBILIZATION	1.0	LS	
2	DEBRIS REMOVAL	8,000.0	CY	
3	CRUSHED ROCK FOR ACCESS DRIVE	702.0	TON	
4	REMOVE EXG. DAMAGED PUMPING STATION COMPONENTS AND SALVAGE	1.0	LS	
5	INSTALL EMBANKMENT	25,700.0	CY	
6	SURFACE RESTORATION / SEEDING	1.0	LS	
7	TESTING ALLOWANCE	1.0	ALW	

811 Know what's below. Call before you dig.

UTILITY INFORMATION

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LICENSED PROFESSIONAL ENGINEER JAMES J. OLMSTED 8642 IOWA

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.

JAMES J. OLMSTED, P.E. #8642 1-20-2020 DATE

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021.

SHEETS COVERED BY THIS SEAL: ALL SHEETS

OLMSTED & PERRY CONSULTING ENGINEERS INC.
10730 PACIFIC STREET SUITE 232
OMAHA, NEBRASKA

REVISIONS

2019 FLOOD RECOVERY
L-601 MISSOURI RIVER LB - BARTLETT SEGMENT LEVEE DISTRICT
MILLS COUNTY, IOWA

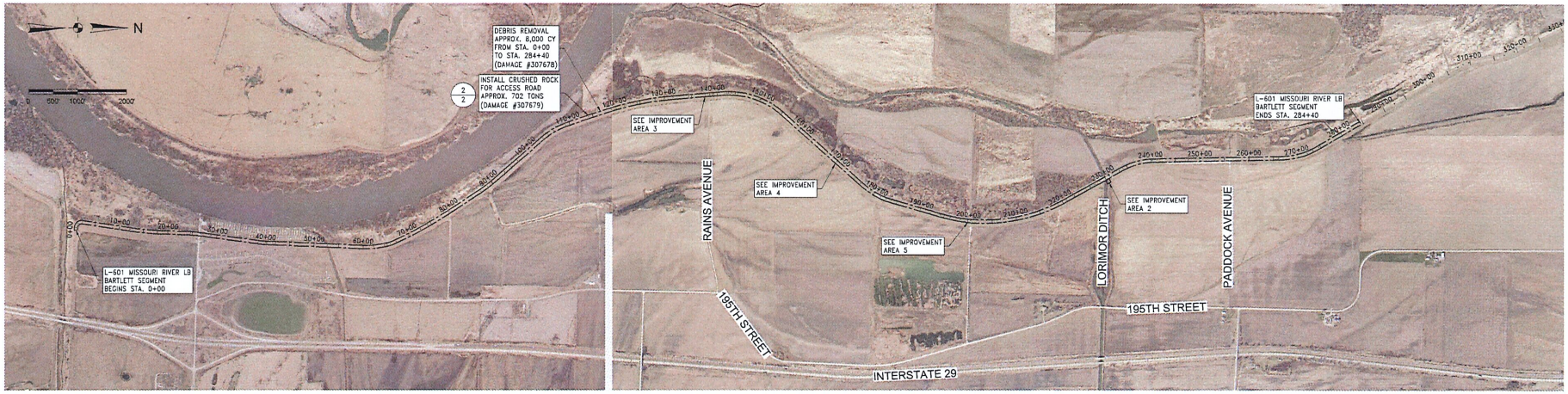
DESIGNED BY: JFZ
CHECKED BY: JJO
DRAWN BY: ACM

TITLE SHEET & IMPROVEMENT LOCATION MAP

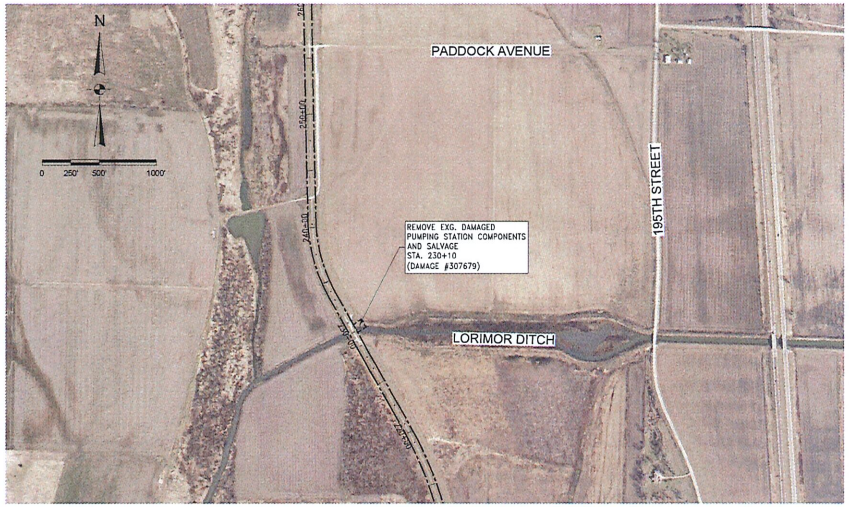
PROJECT NO. 19096
DATE JANUARY 2020

SHEET NO. 1 of 3

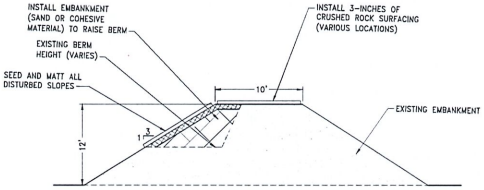
[DWG: Z:\Projects\Missouri River Levee District - Bartlett Seg\19096\dwg\Sheets\Title 19096.dwg] [Plot Date: 1/20/2020 9:58 AM]



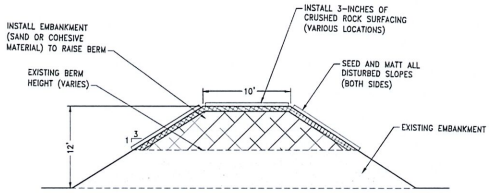
IMPROVEMENT AREA 1
DEBRIS REMOVAL AND ACCESS ROAD



IMPROVEMENT AREA 2
PUMPING STATION REMOVAL



1/2 TYPICAL BERM SLOUGHING REPAIR
NO SCALE



2/2 TYPICAL BERM BREACH REPAIR
NO SCALE

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. NO WORK SHALL BE PERFORMED BETWEEN 7 P.M. AND 7 A.M. ON ANY GIVEN DAY OR SUNDAYS OR HOLIDAYS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
3. PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREAS. DO NOT ALLOW WATER TO DRAIN OR TO POND ON PRIVATE PROPERTY.
4. ALL CONSTRUCTION ITEMS CALLED OUT ON THE DRAWINGS AND/OR SPECIFICATIONS, WHICH ARE NOT LISTED ON THE APPROXIMATE QUANTITIES OR BID FORM, SHALL BE CONSIDERED INCIDENTAL CONSTRUCTION (NPI).
5. ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE HAULED OFF-SITE AND PROPERLY DISPOSED. DEBRIS SHALL BE DISPOSED OF AT THE LOESS HILLS REGIONAL SANITARY LANDFILL. ALL CLEARING & GRUBBING REMOVAL SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER & APPROVED BY THE DISTRICT. DEBRIS REMOVAL INCLUDES MIXED VEGETATION, WOODY DEBRIS, AND MAN MADE LUMBER. ALL QUANTITIES ARE ESTIMATES.
6. CONTRACTOR SHALL PROVIDE MEASURES TO MINIMIZE DUST CONTROL.
7. PROVIDE SMOOTH GRADE TRANSITIONS BETWEEN VARYING SLOPES TO AVOID ABRUPT CHANGES IN GRADE.
8. EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE.
9. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER AND PER THE PROJECT MANUAL.
10. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN SC-150 OR EQUAL.
11. ALL EMBANKMENT QUANTITIES ARE ESTIMATES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ENOUGH FILL / EMBANKMENT MATERIAL TO RETURN BERMS TO PREVIOUS ELEVATIONS AND SLOPES.
12. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A CONSTRUCTION ENTRANCE AT ANY LOCATION WHERE MACHINERY WILL EXIT/ENTER A TRAVELED ROADWAY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STABILIZED CONSTRUCTION ENTRANCES, ROADS INTO THE PROJECT SITES (AS NEEDED), AND ALL REMOVAL AND RESTORATION TO EXISTING CONDITIONS.
13. ALL EMBANKMENT / FILL MATERIAL SHALL BE SUPPLIED BY THE CONTRACTOR. THE BERMS SHALL BE FIXED BY ONE OF THE FOLLOWING OPTIONS:
    A) SAND FILL WITH A CLAY CAP
    B) COHESIVE SOIL THROUGHOUT
14. MILLS COUNTY REQUIRES A $0.35/CY FEE FOR ALL MATERIAL HAULED WITHIN THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THIS FEE IN HIS BID AND FOR PAYMENT TO THE COUNTY.
15. THE CONTRACTOR SHALL DECOMPACT ALL DISTURBED AGRICULTURAL AREAS BY CONSTRUCTION OPERATIONS. DECOMPACT WITH A HEAVY DUTY CHISEL PLOW OR DEEP RIPPER AND AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL PLACE 3-INCHES OF CRUSHED ROCK SURFACING ALONG THE TOP OF THE BERMS. LOCATIONS SHALL BE DETERMINED BY THE ENGINEER. ALL QUANTITIES ARE ESTIMATES.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FILL MATERIAL.

OLMSTED & PERRY CONSULTING ENGINEERS INC.
10730 PACIFIC STREET SUITE 232
OMAHA, NEBRASKA

REVISIONS

2019 FLOOD RECOVERY
L-601 MISSOURI RIVER LB - BARTLETT SEGMENT LEVEE DISTRICT
MILLS COUNTY, IOWA

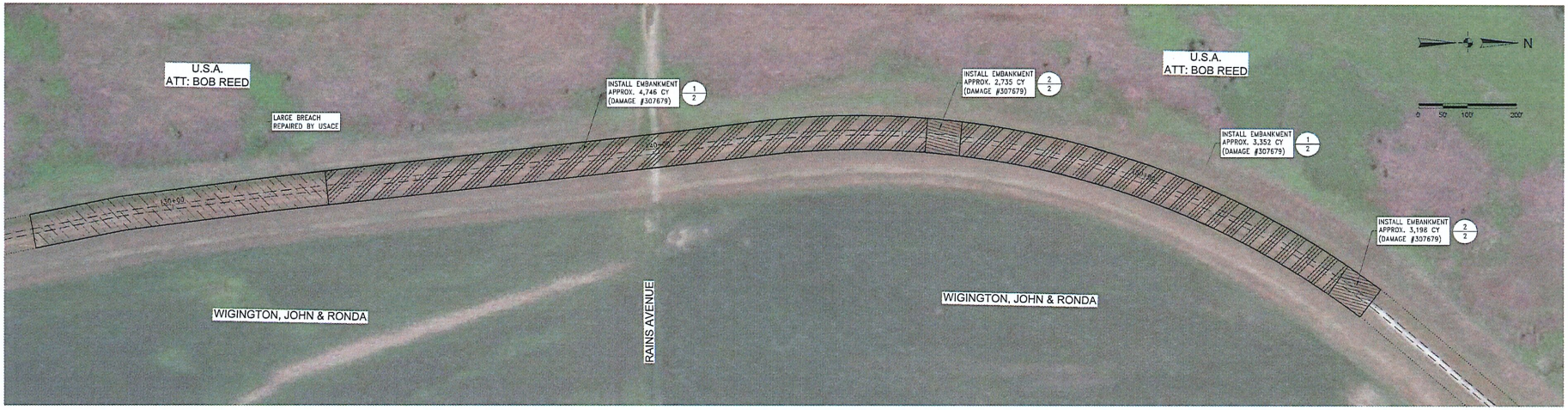
DESIGNED BY: JTZ
CHECKED BY: JJO
DRAWN BY: ACM

IMPROVEMENT AREAS

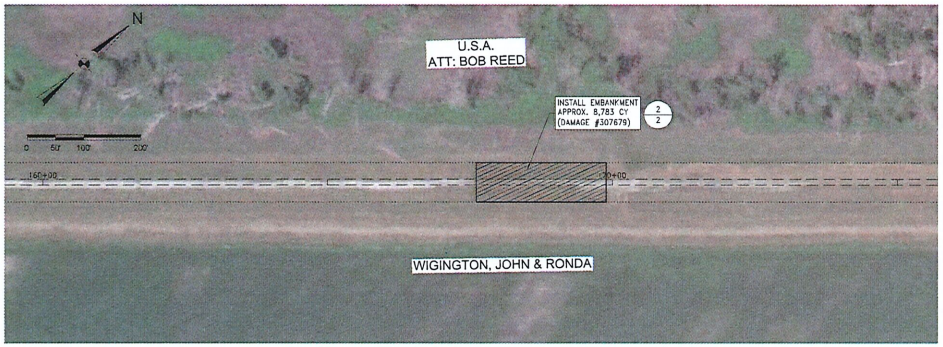
PROJECT NO. 19096
DATE JANUARY 2020

SHEET NO. 2 of 3

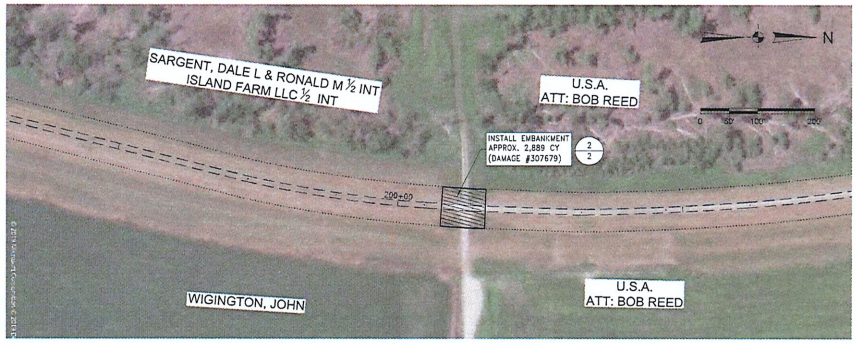
[DWG: Z:\Projects\Missouri River Levee District - Bartlett Seg\19096\dwg\Bize 19096.dwg; Layout1-24x36] [Plot Date: 1/20/2020 9:59 AM]



IMPROVEMENT AREA 3
EMBANKMENT REPAIR



IMPROVEMENT AREA 4
EMBANKMENT REPAIR



IMPROVEMENT AREA 5
EMBANKMENT REPAIR

NOTE: SAND MATERIAL IS BEING REMOVED FROM THE MILLER-STURGEON SEGMENT NEAR STA. 383+50 (NITC). CONTRACTOR MAY MAKE ARRANGEMENTS WITH THE CONTRACTOR FOR THAT PROJECT TO USE THE SAND MATERIAL, IF APPLICABLE.

OLMSTED & PERRY
CONSULTING ENGINEERS INC.
10730 PACIFIC STREET SUITE 232
OMAHA, NEBRASKA

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