

Projects Committee Meeting
Wednesday, December 30, 2020 7:30 AM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. UNFINISHED BUSINESS

There is no unfinished business to address.

2. SWCP

A. SWCP Application Approvals

None.

B. SWCP Payments

We received two SWCP projects completed, and certified, in Butler county.

C. 20-B-1	D.	E. Joseph Hanis	F. \$ 12,131.94	G. WASCOW w/ TO
H. 20-B-2	I.	J. Dwayne Lanc	K. \$ 12,500.00	L. TOT/WASCOW w/TO

M.

Diers Family Farm in Dodge county submitted paperwork for their new well, pump, and tank. As a reminder, this project was approved through our SWCP program and is in conjunction with our Rawhide ditch agreement: In the easement that the NRD and adjoining landowners entered into there is a clause that requires the NRD to supply livestock water is we disallow livestock entering the ditch. Due to the maintenance issues on the banks over the years caused by cattle entering/leaving the ditch our Operations Department decided to fence off the ditch and would like to provide a well for Diers. Through the DNR SWCP program we can submit up to 75% cost-share with the remaining 25% covered by NRD local funds.

The total cost of the project was \$17,725.40. Therefore, their 75% DNR SWCP reimbursement would come to \$13,294.05 and the NRD's local match would equal \$4,431.35

N. 20-D-1	O.	P. Diers Family Farm	Q. \$ 13,294.05	R. Livestock well (solar)
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S. SWCP Cancellations

None.

T. Wahoo Creek Cost Share Approvals

None.

3. WATERSHEDS

A. Shell Creek

The Shell Creek Watershed Improvement Group (SCWIG) met on December 22, 2020, to mainly discuss the need for conducting a survey to get a better understanding of conservation issues, practices used and desired. Other current and future projects were also discussed. Minutes of the December 8, 2020 meeting

were reviewed and are attached. The next scheduled meeting is scheduled for 2:00 p.m., Tuesday, January 12, 2021.

1. Shell Creek Environmental Enhancement Plan Implementation

- a. Shell Creek Channel Improvement/Benching Project Payment Request
Attached is Colfax County payment request in the amount of \$171,863.82 toward the channel improvement/benching project north of the Union Pacific Railroad bridge. Pruss Excavation will now start work on the south side of the tracks. LPNNRD has agreed to pay the project construction costs and Colfax County has agreed to provide all engineering services and land rights which amounts to \$72,919.18 at the present time.

LPNNRD will be reimbursed for 100% of our payment from available grant funding awarded for the Shell Creek Watershed.

- b. Tom Sprunk Bank Stabilization/Wetlands Project
Bill Bos reported that the Tom Sprunk Project was completed and seeded on Dec. 28, 2020. Perfect timing before the snow. Bill has pictures of before, during and after the construction. A meeting between the Eng. Jim Reedy, NRD, Shell Creek and Tom Sprunk is scheduled for 9:00 a.m., January 12, 2021, at the project site for final project inspection.

We have received the final project invoices, as attached, totaling \$44,813.75 (Wemhoff Construction = \$44,470.77 & landowner seeding = \$342.98). Wemhoff's invoice is \$1,700 under his approved bid (attached). The Board has previously approved 75% cost share assistance on this project which totals \$33,610.31. LPNNRD's \$33,610.31 cost share payment will be 100% reimbursed from our approved NDEE/EPA 319 Shell Creek grant. The landowner portion is \$11,203.44 which will be used for matching funds on the grant.

At the January 11th Board Meeting, a motion to pay Tom Sprunk \$33,610.31 (75% x \$44,813.75) toward his completed Shell Creek Bank Stabilization/Wetlands Enhancement Project, as attached to the Projects Committee Minutes, will be requested.

- c. Shell Creek Grant Funding Update

2. Wolfe Jetty Project - Colfax County

Over the past 1 1/2 years, LPNNRD has been in communication with Colfax County, Schuyler and the local landowners about pursuing the replacement of the Wolfe Jetty Project that was destroyed by the 2019 floods. In 1994, LPNNRD originally sponsored completion of the eight jetty project in partnership with Colfax County and the local landowner. After the 2019 flooding, there was much discussion with Colfax County about taking the lead to replace the project to protect county roads. The project also to help keep the Platte River from breaching its banks, flowing north into Lost Creek and Schuyler. Initially there was local interest to replace this project, but this dissolved over time. Director Matt Bailey and County representatives had

several contacts and attended meetings with Schuyler to obtain their interest and partnership, but in the end Schuyler decided to not participate. The remaining options were for Colfax County and LPNNRD to partner with the Wolfe family, but in the end, Colfax County and the landowners decided it is not to pursue a replacement project at this time. We had planned to work with FEMA to hopefully use \$800,000 of uncommitted FEMA funding for this project if other local partners participated. Attached are emails from Colfax County.

North Bend has indicated an interest in possibility using the available funding for their levee, or another project. We anticipate more information at the Projects Committee Meeting.

B. Wahoo Creek Watershed

1. Wahoo Creek Dam Site Planning Update & FYRA Invoices

Attached is FYRA's December 29th invoice totaling \$13,008 for work completed from November 21 through December 25, 2020. After this payment, \$60,333.75 will remain under their \$95,469 contract addendum. This invoice will be reimbursed 100% by NRCS.

During this invoicing period, Janel Kaufman, FYRA, reported that they have been running the HEC-RAS models to determine inundation depths and using that information in their ArcMap tool to determine damages/benefits along the streams. They also have been iterating and checking the results. They will be able to present some preliminary results within the next month.

2. Wahoo Creek Watershed Water Quality Plan Phase II

3. Olsson Design Update and Invoice

No new information or invoice.

4. JOINT WATER MANAGEMENT ADVISORY BOARD

Dodge County Emergency Manager, Tom Smith, joined by Zoom to give an update on all project activities in our portion of Dodge County. Attached is Dodge County's 2021 Mitigation Strategy.

5. HAZARD MITIGATION PLAN UPDATE

The final task on for our approved Hazard Mitigation Plan is obtaining resolutions from the participating entities. We have about eight months to complete this task, but most have been received to date. The current list is attached showing 44 have approved their resolution.

6. EROSION AND SEDIMENT RULES AND REGULATIONS

7. OTHER

A. Woodcliff (SID No.8) Project Assistance Request - 8:30 a.m.

As discussed last Projects Committee and Board meetings, Sanitary & Improvement District No.8 (Woodcliff) has submitted assistance requests for project repair of their existing bank stabilization project and roadway, and also for a new road raise project at the same location (letter attached). LPNNRD first learned of these projects last

month and that construction was nearing completion on portions of the projects. LPNNRD policy requires that assistance requests need approval prior to work being completed.

SID. No. 8's first request is for assistance on the local share for repairing 2019 flood damages to their bank stabilization project. Their letter stated that they are working with FEMA/NEMA to receive up to 87.5% federal/state cost share assistance for damage repairs on the bank stabilization and roadway. Also included in this portion of this effort is additional road protection along an area by their lagoons and emergency protective measures. FEMA/NEMA's estimated contribution is \$822,194 toward the repair, with the SID's estimated local 12.5% stated as \$137,032. Of these project efforts, it appears \$692,657 (84%) of project components have not been started. The SID is asking 50% assistance on the estimated \$137,032 local cost.

The S.I.D.'s second request is for 50% (\$370,144) of a road raise flood risk reduction project (engineering and construction) which has an adjusted total cost of \$740,288. This project is not receiving FEMA/NEMA funding. It has been noted that about 75% of this project is complete and scheduled to be finished in the Spring 2021. Based on the total \$740,288 project cost, 25% (\$185,072) has not been completed. Project plans, specifications and bid tabulation can be observed at <https://we.tl/t-cwSnCoLVuk>.

Jake Miriovsky, JEO project engineer, and Lonnie Mart, S.I.D. representative, joined the Projects Committee meeting (Zoom) to answer questions and provide any additional project details. JEO's pdf presentation is attached for review.

The committee reviewed the \$740,288 Road Raise Flood Risk Reduction Project that is 75% complete. Keeping in mind LPNNRD policy of not cost sharing on completed project work prior to District approval, the committee focused on potential assistance on the 25% of the uncompleted portion of project work remaining, which totals \$185,072.

The committee also reviewed the FEMA PA/406 Mitigation Project which is partially completed. FEMA/NEMA has approved 87.5% assistance on this project. The total estimated repair and protective measures completed totals \$306,511. The Bank Stabilization project portion near the Lagoon with an estimated \$692,657 cost is not yet started.

B. LPNNRD Dam Reservoir Water Pumping Request

As discussed last meeting, Steven Case, attorney who represents Keystone XL pipeline, was exploring water sources for the pipeline establishment through Butler County in 2021. One water source they were looking was from one of our Bellwood Watershed Flood Reduction dams and another from an irrigation well in the area.

After further discussions (e-mails attached), Mr. Case has indicated that Keystone is

likely no longer interested in pursuing a request to pump from one of our reservoirs but will continue to pursue working with a landowner to use water from an irrigation well.

C. North Bend Project Discussion/Request - 8:00 a.m.

As mentioned under Shell Creek discussion, with the Wolfe Jetty Project not moving forward at this time, North Bend has indicated an interest to possibly request all or at least a portion of the \$792,000 of available FEMA funding for Platte River Projects. JEO representatives Kevin Kruse, Lalt Jha and Dodge County Emergency Manager Tom Smith joined (Zoom) the Projects Committee to discuss their future project request.

Below is information that Kevin Kruse, JEO, provided in an email with an attachment:

"I did have an opportunity to visit the North Bend Levee yesterday in preparation for the NRD committee meeting tomorrow. I had a chance to walk quite a bit of the levee that I had not previously. I did identify a handful of locations that could use some additional reinforcement to make the system more resilient and to protect North Bend and the area of Dodge County north of the river from future flood events."

"These proposed projects are still quite conceptual but they do give us a decent idea of what the system's needs are and how we might be able to utilize the available FEMA funding. I tried to keep them separate for the time being as we put together a final application packet. Overall there are 4 sites that I feel could use some attention. I have presented them below in a prioritized order of importance. They start at the upstream end of the system where it ties into the east bank of the North Bend Cutoff Ditch. As we discussed, there are also some necessary fixes for the Cutoff Ditch but there are some other funding items in the works on that so I have utilized that tie-in as our furthest upstream point. I have attached a brief map and cost opinions for consideration and discussion."

"I will have these documents ready for tomorrow's meeting and able to share if that is possible, but I wanted to provide in advance of the discussion for those that may not have the ability to view a shared screen etc."

D. Project Name	E. Description
F. GROUP A - EMBANKMENT PROTECTION AT NB DRAINAGE DISTRICT TIE-IN (SITE 1)	G. Bank shaping and rock-rip rap armoring of NB Drainage District with NB Cutoff Ditch. (Approximately 700 LF)
H. GROUP B - CULVERT PIPE REPLACEMENT	I. Removal and Replacement of an existing drainage pipe with an RCP and flapgate
J. GROUP C - EMBANKMENT PROTECTION AT RIVERVIEW (SITE 2)	K. Bank shaping and rock-rip rap armoring of Riverview (Approximately 700 LF)

L. GROUP D - EMBANKMENT PROTECTION AT HIGHWAY 15 BRIDGE (SITE 3)	M. Bank shaping and rock-rip rap armoring and termination of levee at Highway 79
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N.

O. LPNNRD Local Working Group Meeting-February 18, 2021

The LPNNRD Local Working Group Meeting is scheduled 1:00 to 4:00 p.m. on February 18, 2021. The location will be at the Lake Wanahoo Education Building. The agenda is attached.

8. ADJOURNMENT

The Projects Committee adjourned at 9:50 a.m.

December 18, 2020

To: Shell Creek Watershed Improvement Group

Subject: Minutes of December 8, 2020 meeting

The Shell Creek Watershed Improvement Group met at the Bailey Farm on Tuesday, December 8, 2020, at 2 pm. Present: Matt Bailey, Elbert Traylor, Ray Flood, Mark Seier, Carl Groteluschen, Gene Wissenburg, and by zoom: Katy Pekarek, Tom Mountford, Melissa Foreman, Sean Eliot, and Eric Smith.

Katy reported on a possible new survey for our watershed and gave examples of a survey done on the Big Blue River and Turkey Creek near Wilber, NE. She also showed some information from another NE Nebraska watershed. Survey could be conducted by Bureau of Scientific Research (BOSR) at a cost of around \$25,000. Discussion followed concerning: what should be asked, who should be asked, what can be learned, and what will be the value of the survey. Eric and Elbert made suggestions. We also discussed ways to compile a mailing list if the survey is to be done. Eric will check on possible mailing list.

Elbert noted that we need to update and revise our Project Implementation Plan this year and the survey could help. What practices are presently being used in the watershed successfully, and what practices do we need to promote through education and cost share.

Katy will send e-mail copies of the Big Blue/Turkey Creek survey to SCWIG members and we will meet again on December 22nd to discuss and make decisions.

Tom Sprunk project is progressing and concrete is being poured.

We adjourned at 3:58 pm.

Respectfully submitted,

Gene Wissenburg, secretary

COLFAX COUNTY HIGHWAY DEPARTMENT

466 ROAD 10
SCHUYLER, NE 68661

PHONE 402-352-3031
FAX 402-352-3022

December 15, 2020

Lower Platte North NRD

Project C-19(557): Shell Creek Benching. Engineering, Design, observation, & oversight.
Paid by Colfax County is \$72,919.18.

Reimbursement of said Project requested: Contractor, Pruss Excavation, Paid to date by Colfax County in the amount of \$171,863.82 for the North side of Shell Creek Benching to Union Pacific Railroad right-of-way, as per Interlocal Agreement.

Sincerely,



Carl Grotelueschen
Colfax County Commissioner



Mainelli Wagner & Associates, Inc.

www.mwaeng.com

6920 Van Dorn Street, Suite A, Lincoln, NE 68506 Phone: (402) 421-1717 Fax: (402) 421-6061

August 12, 2020

Mr. Mark Arps
Colfax County Highway Superintendent
466 Road 10
Schuyler, NE 68661

Subject: Schuyler East Channel Benching, C-19(557)
Pay Application No. 1

Dear Mr. Arps,

Enclosed please find a signed "Summary of Pay Quantities No. 1" and an "Application and Certification for Payment No. 1" for the above referenced project. The amount of \$127,808.32 is authorized for payment.

If you have any questions please feel free to call any time.

Sincerely,

Ryan Hamilton

APPLICATION AND CERTIFICATION FOR PAYMENT

OWNER: Colfax County PROJECT: Schuyler East Channel Benthing
 CONTRACTOR: Pruss Excavation C007811530, C-19(557) PROGRESS OR FINAL ESTIMATE: Progress
 CERTIFICATION No.: 1
 CONTRACT DATE: Feb. 2020

PAYMENT SUMMARY

1. ORIGINAL CONTRACT.....	\$167,962.32	
2. CHANGE BY CHANGE ORDERS.....	\$0.00	
3. TOTAL CONTRACT & CHANGE ORDERS.....	\$167,962.32	
4. WORK COMPLETE AND STORED.....	\$138,171.16	
5. RETAINAGE (7.5%).....	\$10,362.84	
6. TOTAL EARNED LESS RETAINED (LINE 4 LESS LINE 5).....	\$127,808.32	
7. LESS PREVIOUS PAYMENTS.....	\$0.00	
8. PAYMENT DUE AT DATE.....	\$127,808.32	
9. REMAINING BALANCE.....	\$40,154.00	
CHANGE ORDERS		
	Additions	Deductions
Previous C.O.	\$0.00	\$0.00
This Payment	\$0.00	\$0.00
Total	\$0.00	\$0.00
Net Contract Change	\$0.00	

The undersigned certifies that to the best of the Contractor's knowledge, information and belief the work covered by this application for Payment has been completed in accordance with the contract documents, that all amounts have been paid by the Contractor for work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

Contractor: Pruss Excavation

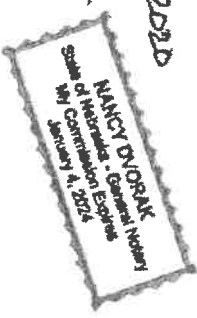
By: *James Pruss* Date: 8-12-2020

State of: NEBRASKA
 County of: CRAWFORD

Subscribed and sworn to before me this 12 day of August, 2020

Notary Public: *Nancy Jewett*

My Commission Expires: 1/4/2024



Engineer's Certification for Payment

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Engineer certifies to the Owner that to the best of the Engineer's knowledge, information and belief the work has progressed as indicated, the quality of the work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the Amount Certified.

AMOUNT CERTIFIED: \$127,808.32

Mainelli Wagner & Assoc. Inc.

By: *[Signature]* Date: 8/12/2020

This certificate is not negotiable. The amount Certified is payable only to the Contractor named herein. Insurance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

905.00 5/8.11 \$127,808.32

**Colfax County
Schuyler East Channel Benching
C007811530, C-19(557)**

Summary of Pay Quantities No : 1
Progress Estimate/Final Estimate : Progress
For Work Complete Through : 4/11/2020

ITEM	DESCRIPTION	PLAN QUANTITY	UNITS	UNIT BID	CONTRACT AMOUNT	QTY. PREVIOUS	QTY. THIS PAY PERIOD	TOTAL QTY TO DATE	TOTAL VALUE
1-1	Mobilization	1.000	Lump Sum	\$2,500.00	\$2,500.00	0.000	1.000	1.000	\$2,500.00
1-2	Site Preparation	1.000	Lump Sum	\$2,000.00	\$2,000.00	0.000	1.000	1.000	\$2,000.00
1-3	Excavation, Established Quantity	86,329.000	Cu. Yds.	\$1.58	\$136,399.82	0.000	84,602.000	84,602.000	\$133,671.16
1-4	Covercrop Seeding	18.500	Acres	\$225.00	\$4,162.50	0.000	0.000	0.000	\$0.00
1-5	Seeding, Type "A"	18.500	Acres	\$1,200.00	\$22,200.00	0.000	0.000	0.000	\$0.00
1-6	Temporary Silt Fence	200.000	Lin. Ft.	\$3.50	\$700.00	0.000	0.000	0.000	\$0.00
Contract Total =					\$167,962.32	Total Work Complete =			\$138,171.16

Original Contract Total = \$167,962.32
Change Order #1 = \$0.00
Current Contract Amount = \$167,962.32
Total Amount of Completed Work = \$138,171.16
% Complete = 82%
7.5% Retainage = \$10,362.84
Less Previous Payments = \$0.00
Total Amount Due This Estimate = \$127,808.32

MAINELLI WAGNER & ASSOCIATES, INC.

CONTROL NUMBER:

DATE: 10/13/20

CHANGE ORDER - SUPPLEMENTAL AGREEMENT

PROJECT NUMBER: C-19(557)

CONTRACTOR (Number):
(Name): Pruss Excavation

LOCATION:
Colfax County

GROUPS OF WORK:

STATION:
74+00 through 76+00

SUPPLEMENT TO CONTRACT FOR WORK ON PROJECT NUMBER:
Schuyler East Channel Benching C-19(557)

DATE OF ORIGINAL CONTRACT:
February 2020

WE HEREBY REQUEST APPROVAL OF CHANGES IN THE PLANS, SPECIFICATIONS, OR WORK NOT INCLUDED IN THE PLANS OR CONTRACT, DESCRIBED AS FOLLOWS:

Change Order No. 1

This change order is to compensate the Contractor for changes to or additional work completed on the above-mentioned project.

As requested by the Owner, Pruss Excavation removed several trees inside the channel on the East end of the project. The trees were blocking the flow of water and in time, could have caused erosion issues to the streambank.

The agreed upon price shall be full compensation for all material, labor, equipment, tools and incidentals necessary to complete the work. The Owner will pay for all the above-mentioned items that are completed in accordance with the plans and specifications by the Contractor. 2 additional calendar days to the contract time allowance are being granted.

ESTIMATED CHANGES IN QUANTITIES OF ITEMS OF WORK AT CONTRACT OR AGREED UNIT PRICES

ITEM OF WORK	UNIT	INCREASED QUANTITY	DECREASED QUANTITY	CONTRACT UNIT PRICE	AGREED UNIT PRICE	INCREASED(+) or DECREASED(-)
Additional Tree Removal in Channel	L.S.	1.000			\$1,500.00	+\$1,500.00

Colfax County, Nebraska

TOTAL NET INCREASE (+) or DECREASE (-) **+\$1,500.00**

APPROVED: MAINELLI WAGNER & ASSOC., INC.

[Signature]

For and in consideration of the prices set forth in this agreement, the Contractor agrees to complete the extra and additional work or reduced quantities of work described herein and accept the prices shown as Full payment. The insurance, bond and terms of the contract remain in Full effect, except as specifically changed herein, and shall apply to This agreement.

APPROVED FOR COLFAX COUNTY:

[Signature]

APPROVED:

NAME OF CONTRACTOR:

Pruss Excavation

AUTHORIZED BY (Signature)

[Signature]

APPLICATION AND CERTIFICATION FOR PAYMENT

OWNER: Colfax County

PROJECT: Schuyler East Channel Benching

CERTIFICATION NO.: 2

CONTRACTOR: Pruss Excavation

C-19(557)

PROGRESS OR FINAL ESTIMATE: Progress
CONTRACT DATE: Feb. 2020

PAYMENT SUMMARY

1. ORIGINAL CONTRACT.....	\$167,962.32	
2. CHANGE BY CHANGE ORDERS.....	\$1,500.00	
3. TOTAL CONTRACT & CHANGE ORDERS.....	\$169,462.32	
4. WORK COMPLETE AND STORED.....	\$173,599.82	
5. RETAINAGE (1.0%).....	\$1,736.00	
6. TOTAL EARNED LESS RETAINED (LINE 4 LESS LINE 5).....	\$171,863.82	
7. LESS PREVIOUS PAYMENTS.....	\$127,808.32	
8. PAYMENT DUE AT DATE.....	\$44,055.50	
9. REMAINING BALANCE.....	-\$2,401.50	
CHANGE ORDERS		
	Additions	Deductions
Previous C.O.	\$0.00	\$0.00
This Payment	\$1,500.00	\$0.00
Total	\$1,500.00	\$0.00
Net Contract Change	\$1,500.00	

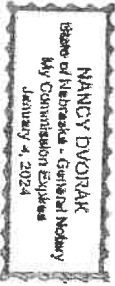
The undersigned certifies that to the best of the Contractor's knowledge, information and belief the work covered by this Application for Payment has been completed in accordance with the contract documents, that all amounts have been paid by the Contractor for work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

Contractor: Pruss Excavation

By: *James Pruss*

Date: 10-14-2020

State of: NEBRASKA
County of: DUBUQUE
Scheduled and amount to be paid on or by: 14 day of OCTOBER, 2020
Money paid to: Navy Bank
My Commission Expires: 1/11/2024



Engineer's Certification for Payment

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Engineer certifies to the Owner that to the best of the Engineer's knowledge, information and belief the work has progressed as indicated, the quality of the work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the Amount Certified.

AMOUNT CERTIFIED: \$44,055.50

Mainelli Wagner & Assoc. Inc.

By: *[Signature]*

Date: 10/15/2020

This Certificate is not negotiable. The amount Certified is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

705.00 512.11 \$44,055.50



Mainelli Wagner & Associates, Inc.

www.mwaeng.com

6920 Van Dorn Street, Suite A, Lincoln, NE 68506 Phone: (402) 421-1717 Fax: (402) 421-6061

October 15, 2020

Mr. Mark Arps
Colfax County Highway Superintendent
466 Road 10
Schuyler, NE 68661

Subject: Schuyler East Channel Benching, C-19(557)
Pay Application No. 2

Dear Mr. Arps,

Enclosed please find a signed "Summary of Pay Quantities No. 2" and an "Application and Certification for Payment No. 2" for the above referenced project. The amount of \$44,055.50 is authorized for payment.

If you have any questions please feel free to call any time.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jeff Wagner', is written over a light blue horizontal line.

Jeff Wagner, P.E.

**Colfax County
Schuyler East Channel Benching
C-19(\$57)**

Summary of Pay Quantities No : 2
Progress Estimate/Final Estimate : Progress
For Work Complete Through : 9/16/2020

ITEM	DESCRIPTION	PLAN QUANTITY	UNITS	UNIT BID	CONTRACT AMOUNT	QTY. PREVIOUS	QTY. THIS PAY PERIOD	TOTAL QTY TO DATE	TOTAL VALUE
1-1	Mobilization	1.000	Lump Sum	\$2,500.00	\$2,500.00	1.000	0.000	1.000	\$2,500.00
1-2	Site Preparation	1.000	Lump Sum	\$2,000.00	\$2,000.00	1.000	0.000	1.000	\$2,000.00
1-3	Excavation, Established Quantity	86,329.000	Cu. Yds.	\$1.58	\$136,399.82	84,602.000	1,727.000	86,329.000	\$136,399.82
1-4	Covercrop Seeding	18.500	Acres	\$225.00	\$4,162.50	0.000	0.000	0.000	\$0.00
1-5	Seeding, Type "A"	18.500	Acres	\$1,200.00	\$22,200.00	0.000	26.000	26.000	\$31,200.00
1-6	Temporary Silt Fence	200.000	Lin. Ft.	\$3.50	\$700.00	0.000	0.000	0.000	\$0.00
C.O. 1	Additional Tree Removal	0.000	L.S.	\$0.00	\$0.00	0.000	1.000	1.000	\$1,500.00
Contract Total =					\$167,962.32	Total Work Complete =			\$173,599.82

Original Contract Total = \$167,962.32
Change Order #1 = \$1,500.00
Current Contract Amount = \$169,462.32
Total Amount of Completed Work = \$173,599.82
% Complete = 99%
1.0% Retainage = \$1,736.00
Less Previous Payments = \$127,808.32
Total Amount Due This Estimate = \$44,055.50



Mainelli Wagner & Associates, Inc.

www.mwaeng.com

6920 Van Dorn Street, Suite A, Lincoln, NE 68506 Phone: (402) 421-1717 Fax: (402) 421-6061

C-19(557), Shell Creek Cleanout, meetings:	\$ 1,799.86
C-19(557), Shell Creek Cleanout, Survey completed, NRD meeting: (previously billed \$ 1,799.86)	\$15,271.86 ✓
C-19(557), Shell Creek Cleanout, Hydraulics completed, design started: (previously billed \$ 17,071.72)	\$10,864.56 ✓
C-19(557), Shell Creek Cleanout, Plans completed and let: (previously billed \$ 27,936.28)	\$19,924.38 ✓
C-19(557), Shell Creek Cleanout, Staking, Permitting, construction prep: (previously billed \$ 47,860.66)	\$13,194.96
(previously billed \$ 11,000.00) C-19(557), Shell Creek Cleanout, COE Coord. Phase 3 prep. Phase 2 Const: (previously billed \$ 61,055.62)	\$11,863.56
Total	<hr/> \$72,919.18

INTERLOCAL COOPERATION AGREEMENT

THIS INTERLOCAL COOPERATION AGREEMENT is made and entered into this 9 day of September, 2019, by and between the Lower Platte North Natural Resources District, a political subdivision in the State of Nebraska, hereinafter referred to as "Lower Platte North NRD," in consultation with the Shell Creek Watershed Improvement Group, and Colfax County, Nebraska, hereinafter referred to as "County", and through their respective governing bodies, authorizing the Chairman of the Lower Platte North NRD and the Chairperson of the Colfax County Board of Commissioners to execute the same.

WHEREAS, Nebraska Revised Statute Section 13-801 et. seq., R.R.S. 1943 (Reissue 2012), the "Nebraska Interlocal Cooperation Act" authorizes the parties hereto to unite their efforts and resources to make the most efficient use of their taxing authority and other powers by enabling them to cooperate with other localities on a basis of mutual advantage and thereby to provide services and facilities in a manner and pursuant to forms of governmental organization that will accord best with geographic, economic, population and other factors influencing the needs and development of the parties hereto and to accomplish the intent of this agreement; and

WHEREAS, the Nebraska Legislature pursuant to Nebraska Revised Statute Section 39-2114 has encouraged counties and other tax-funded organizations to make use of said Interlocal Cooperation Act; and

WHEREAS, it is in the best interests of the Lower Platte North NRD, upon consultation with the Shell Creek Watershed Improvement Group, and Colfax County to improve the natural flow of the Shell Creek channel and decrease the risk to life and property posed by flooding of the Shell Creek; and

WHEREAS, the Lower Platte North NRD and Colfax County desire to begin a project to bench and improve the north bank of the Shell Creek located east of County Road 15 continuing to the Union Pacific Railroad right-of-way thence continuing south of the Union Pacific Railroad right of way and proceeding south and southeast towards the confluence of the Platte River; and

WHEREAS, the Lower Platte North NRD and County agree that the County will be responsible for the expense of engineering, designing, observation, and oversight of the benching protect to the current bank of the Shell Creek. The County will be responsible for cleaning and shaping the County right of ways. Finally, the County will obtain any and all easements and project staking necessary to execute this project; and

WHEREAS, parties agree that the estimated cost of the benching outside of and inside of the county right of way will be up to \$600,000 per an estimate provided by the firm of Mainelli, Wagner & Associates of Lincoln, Nebraska and a portion of the funds from the Lower Platte North NRD will be coming from state grant applications and those third-party dollars will be part of the District's financial commitment; and

WHEREAS, the Lower Platte North NRD and County agree that, if provided, an opportunity to coordinate projects involving public funds and private funds, with the goal of decreasing the risk to life and property near the Shell Creek, is a good use of taxpayer dollars.

WHEREAS, in the judgment of the County Board and Lower Platte North NRD, in consultation with the Shell Creek Watershed Improvement Group, it is appropriate and proper to provide for the safety and welfare of the public who reside and own property in and around the Shell Creek by benching thereto which should result in a decreased risk to life and property;

NOW, THEREFORE, in consideration of the mutual covenants contained herein, it is agreed between the parties as follows:

1. This agreement shall pertain to the benching and improvement of the north bank of the Shell Creek located east of County Road 15 continuing to the Union Pacific Railroad right-of-way continuing south of the Union Pacific Railroad right of way and proceeding south and southeast towards the confluence of the Platte River.
2. The benching of land located adjacent to the Shell Creek is important to decrease the flooding risk to life and property along the Shell Creek.
3. Said benching should be completed in an expeditious manner with the whole project to be completed within 18 months of the date that this Interlocal Agreement is executed.
4. The County will contract with Mainelli, Wagner & Associates to complete said engineering, design, observation, and oversight of the project. The bidding and contractor shall be determined at a later date.
5. Both parties shall have input and shall have access to all information, studies, resources or reference materials provided by Mainelli, Wagner & Associates.
6. Both parties shall have the right to ask questions of or communicate with Mainelli, Wagner & Associates as deemed necessary by this Interlocal Agreement.
7. Neither the County or the Lower Platte North NRD shall assign its duties and responsibilities under this Agreement without the express written permission of the other party to this Agreement.
8. In connection with the carrying out of the activities provided herein, neither the County nor the Lower Platte North NRD shall discriminate against a bidder because of race, color, religion, sex, disability, national origin, age, marital status or receipt of public assistance.
9. If any portion of this Agreement is held invalid, the remainder hereof shall not be affected thereby if such remainder would then continue to conform to the terms and requirements of applicable law.
10. This Agreement constitutes the entire agreement between the parties with respect to the subject matter herein and merges all prior discussions between them. It

shall not be modified except by written agreement dated subsequent to the date of this Agreement and signed by all parties hereto.

11. This Agreement shall be contingent upon the Union Pacific Railroad replacing and expanding the Union Pacific Railroad bridge located north and adjacent to Colfax County number C001914205.
11. This Agreement shall not create a separate legal entity to conduct the joint and cooperative undertaking of this Agreement and therefore the Board Chairman of the Lower Platte North NRD, and the Chairperson of the Board of Commissioners of the County of Colfax, Nebraska, shall be jointly responsible for administering and undertaking this Agreement.
12. The County and the Lower Platte North NRD agree that neither entity will be taking responsibility for the project after final completion as all land and maintenance responsibility will revert back to private landowners.
13. This Agreement shall be construed according to the laws of the State of Nebraska.

EXECUTED BY THE COUNTY this 27th day of August, 2019.

COUNTY OF COLFAX,

BY: Carl Grotelueschen
Carl Grotelueschen, Chairman
Colfax County Board of Commissioners

APPROVED AS TO FORM:

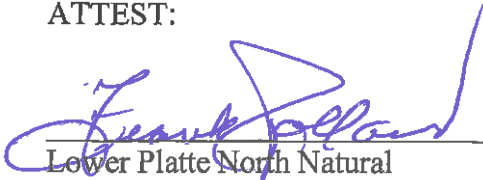
Denise J. Kracl
Denise J. Kracl, Colfax County Attorney

GR EXECUTED BY THE LOWER PLATTE NORTH RESOURCES DISTRICT this
day of September, 2019.

Lower Platte North Natural Resources District

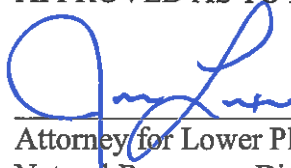
BY: Gene Ruzicka
Gene Ruzicka, Chairman Lower Platte North
Natural Resources District

ATTEST:



Lower Platte North Natural
Resources District Director

APPROVED AS TO FORM:



Attorney for Lower Platte North
Natural Resources District

Wemhoff Construction

P. O. Box 257
254 D. Street
Platte Center, NE 68653-0257
402-246-3955

Date	1/3/2021
Invoice #	2497

Sprunk Tom
9680 63 Ave
Columbus, NE 68601

Date	Description	Rate	Amount
12/28/2020	Installed grade stabilization spillway drop structure. As Bid	44470.77	44470.77
1.5% per month interest will be added after 30 days from invoice date.		Total	\$44,470.77

Invoice: 1489495
Patron: 0025609



Sales Invoice
1489495

Page 1

Sold: 11/23/20 11:28

Central Valley Ag
1362 3RD AVE
COLUMBUS, NE 68602
402-564-2831

Bill To: 0025609
TOM SPRUNK
9680 63RD AVE
COLUMBUS, NE 68601-8794

Ship To: 002560900
TOM SPRUNK
9680 63RD AVE
COLUMBUS, NE 68601-8794

Item No	Description	Units	Quantity	Unit Price	Ext. Amount T
500601	CUSTOM GRASS MIX	POUND	25.1400	12.750	320.54 *

				Subtotal	320.54
				Sales Tax *	22.44

				Invoice Total	342.98

342.98 Paid by Check # 2344

Thank you for choosing Central Valley Ag!



U. S. DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

JOB SHEET FOR GRASS SEEDING

NE-CPA-5
October, 2016

CON 11
FB 180877
rate 1.0

Acres to be Seeded: 1.0

*Please refer to mileage restrictions if non-certified grass seed (variety stated or variety not stated) is provided				Planned		Information to be completed by seed dealer					
				PLS LBS per acre	Total Lbs. Needed	Seed Purchased			Seedlot No.	County/State of Origin (Required for Non-Certified Grass Seed)	
Species List	Variety	Cert	Non-Cert	Bulk	PLS	Purity	Germ	Bulk Lbs	PLS Lbs		
GRASSES											
Big Bluestem (Andropogon gerardii)	Pawnee			2.400	2.400						
Blue Grama (Bouteloua gracilis)	Bad River			0.600	0.600						
Canada Wildrye (Elymus canadensis)	Mandan			2.700	2.700						
Indiangrass (Sorghastrum nutans)	Neb 54			3.000	3.000						
Little Bluestem (Schizachyrium scoparium)	Aldous			0.600	0.600						
Prairie Cordgrass (Spartina pectinata)				0.300	0.300						
Sand Bluestem (Andropogon hallii)	Champ			1.600	1.600						
Sand Lovegrass (Eragrostis trichodes)				0.540	0.540						
Sideoats Grama (Bouteloua curtipendula)	Trailway			3.200	3.200						
Switchgrass (Panicum virgatum)	Blackwell			4.200	4.200						
Virginia Wildrye (Elymus virginicus)				2.000	2.000						
Western Wheatgrass (Elymus smithii)	Barton			4.000	4.000						
Grass Total ▶				25.140	25.140						
FORBS & LEGUMES											
					0.000						
					0.000						
					0.000						
					0.000						
					0.000						
					0.000						
					0.000						
					0.000						
Forb Total ▶					0.000						
FILLER											
					0.000						
Filler Total ▶					0.000						
GRAND TOTALS:	PLS/R²:	120.15		25.140	2.400						

Product	Total PLS lbs needed	Purity	Germ	Bulk lbs	PLS lbs	Seed Lot	County/ State of Origin
BIG BLUESTEM	2.400	64.12	99	3.781	2.400	PBB-SS19	NE
BLUE GRAMA	0.600	93.30	99	0.650	0.600	F9053	MN
CANADA WILDRYE	2.700	96.91	99	2.815	2.700	BTS1840	WY
INDIANGRASS	3.000	96.32	92	3.386	3.000	HIG-HSPA19-SS	NE
LITTLE BLUESTEM	0.600	97.59	98	0.628	0.600	CLB-BO19	NE
PRAIRIE CORDGRASS	0.300	68.54	96	0.456	0.300	G4542	MN
SAND BLUESTEM	1.600	84.29	95	1.999	1.600	GSB-LY19	NE
SAND LOVEGRASS	0.540	99.79	97	0.558	0.540	LLS-3086	KS
SIDEOATS GRAMA	3.200	97.79	91	3.596	3.200	TSO-HNHS18	NE
SWITCHGRASS	4.200	99.64	97	4.346	4.200	BWS-420	NE
VIRGINIA WILDRYE	2.000	98.84	99	2.044	2.000	19-0100	IA
WESTERN WHEATGRASS	4.000	90.76	98	4.497	4.000	WWB-5022	KS

I, The Seed Dealer, certify that all seed meets requirements listed above, including the mileage requirements for non-Certified Grass Seed (stated above), that no primary or secondary noxious weeds are contained in the seed, and were sold to:

Customer Name: 1 acre
Seed Dealer: Kaup Forage and Turf


Date: 10/21/2020
By: Stan Friesen

BID SCHEDULE
TOM SPRUNK GRADE STABILIZATION SPILLWAY DROP STRUCTURE

BID ITEM	SPEC NO.	QUANTITY	UNITS	UNIT PRICE	TOTAL COST
Mobilization	-	1	Lump Sum	200.00	200.00
Site Preparation & Structure Removal	1	1	Lump Sum	600.00	600.00
Excavation	21				
-Stripping		60	CY	3.10	186.00
-Foundation/Structure Excavation		670	CY	3.50	2345.00
Earthfill*	10,11,23				
-Embankment + Structure Backfill		200	CY	8.50	1,700.00
-Topdressing		60	CY	4.00	240.00
Aluminum Drop Spillway Structure	81	1	EA	6050.00	6050.00
Reinforced Concrete, 3500 psi	32	6.6	CY	2365.5	15,572.40
Reinforcing Steel, #4, 60K	32	334	LBS	22.97	7673.82
Drain Fill, ASTM C33 or NDOT 47B	24	1.3	CY	153.84	200.00
Rock Rip Rap, NDOT Type "B"	61	95	CY	112.92	10,727.40
Non-Woven Geotextile, Class III	95	327	SY	2.05	669.25
Critical Area Seeding	6	1	AC		
Total Bid =					46170.77

* Earthfill quantities are in-place neat-line (1:1 compaction, method spec)

Wernhoff Construction
P.O. Box 257
Platte Center, NE 68653-0257

Company Name	Address	City	State
			
Signature	Date		
	9-18-2020		







Tom Mountford

From: Tom Mountford <tmountford@lpnnrd.org> on behalf of Tom Mountford
Sent: Wednesday, December 16, 2020 10:37 AM
To: Mark Arps
Cc: Eric Gottschalk; Sean Elliott; Chris Poole; Carl groteluechen; Tom Smith; Matt Bailey
Subject: Re: Wolfes Jetty

Thank you Mark,

We will proceed accordingly. The approximate \$800,000 of FEMA grant money for potential use along the Platte River will be used elsewhere if there is a need for another eligible project. However potential obligation of those funds is under a time restraint with FEMA so we would need to inform them very soon if there was some other project.

Sincerely,

Tom

On Wed, Dec 16, 2020, 10:01 AM Mark Arps <marps@colfaxne.com> wrote:

At this time Colfax county will not be moving forward with this project. Maybe at a later date if we see cause to participate with repairing this jetty system.

From: Tom Mountford [mailto:tmountford@lpnnrd.org]
Sent: Tuesday, December 15, 2020 1:12 PM
To: Mark Arps <marps@colfaxne.com>
Cc: Eric Gottschalk <egottschalk@lpnnrd.org>; Sean Elliott <selliott@lpnnrd.org>; Chris Poole <cpoole@lpnnrd.org>;
Matt Bailey <mattpbailey78@gmail.com>
Subject: Re: Wolfes Jetty

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Mark,

So based on those meetings with Schyler, Colfax county has made the official determination not to participate? It would also be good to have in our record, the county's decision is as a potential partner on the wolf project.

Thank you.

Tom

On Tue, Dec 15, 2020, 12:29 PM Mark Arps <marps@colfaxne.com> wrote:

Tom, for your records. Matt Bailey and Mark Arps met on June 16th in the afternoon with the Schuyler city council members to discuss cost sharing of a study of repairing the "Wolfes jetty system" that was damaged during the 2019 spring flood on the Platte river. We asked for a payment of \$20,000.00 for their share of the study. The Schuyler city council questioned the dollar amount of their share of the study and told us, that at this time they were not interested participating in the study.

Submitted by, Mark L. Arps. Colfax County Highway Superintendent.



FYRA Engineering, LLC

12702 Westport Parkway, Suite 300
 Omaha, NE 68138
 Phone: 402.502.7131
 Fax: 402.932.6940

INVOICE FOR SERVICES

Lower Platte North NRD
Tom Mountford
511 Commercial Park Road
Wahoo, NE 68066

DATE: 29 December 2020
PROJECT NO.: 022-17-02
PERIOD COVERED: 21 Nov 2020 Through 25 Dec 2020
INVOICE NO.: 022-051
FED ID: 45-5611118

Project Name: Wahoo Creek Watershed Plan/EA
Contract Amount: \$574,990.00
31 Oct 2019 Addendum Amount: \$48,000.00
Contract Date: 8 December 2017
3 Sep 2020 Addendum Amount: \$95,469.00
Contract Date: 3 September 2020

022-17-02-6.01-Additional Services-Economics-Project Management

Description	Employee	Billing Rate	Hours	Current Due
Engineer	Kaufman, Janel	\$ 150.00	1.00 \$	150.00
Admin	Stratton, Ann	\$ 75.00	0.50 \$	37.50
022-17-02-6.01-Additional Services-Economics-Project Management			1.50 \$	187.50

022-17-02-6.02-Additional Services-Economics-Flood Damage Reduction Economics

Description	Employee	Billing Rate	Hours	Current Due
Engineer Intern	Kelley, Connor	\$ 102.00	75.25 \$	7,675.50
Engineer Intern	Roenigk, Ryan	\$ 102.00	47.50 \$	4,845.00
022-17-02-6.02-Additional Services-Economics-Flood Damage Reduction Economics			122.75 \$	12,520.50

022-17-02-6.03-Additional Services-Economics-Revised Plan Economics

Description	Employee	Billing Rate	Hours	Current Due
Engineer	Kaufman, Janel	\$ 150.00	2.00 \$	300.00
022-17-02-6.03-Additional Services-Economics-Revised Plan Economics			2.00 \$	300.00
TOTAL DUE CURRENT INVOICE:				\$ 13,008.00

CONTRACT AMOUNT: \$ 718,459.00
PREVIOUS BILLING: \$ 645,117.25
CURRENT INVOICE: \$ 13,008.00
TOTAL INV'D. TO DATE: \$ 658,125.25
CONTRACT REMAINING: \$ 60,333.75

FYRA Engineering, LLC
 12702 Westport Parkway, Suite 300
 Omaha, NE 68138

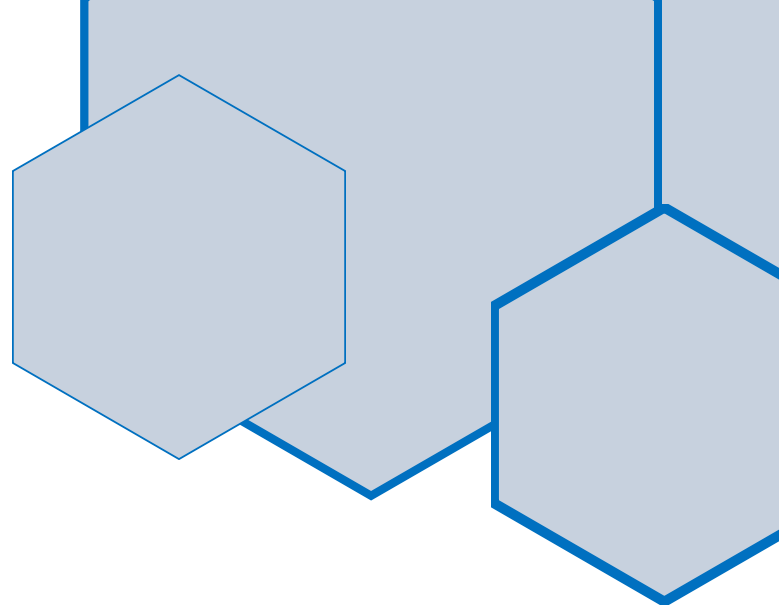
Lower Platte North NRD
 Tom Mountford
 511 Commercial Park Road
 Wahoo, NE 68066

DATE: 29 December 2020
 PROJECT NO.: 022-17-02
 PERIOD COVERED: 21 Nov 2020 Through 25 Dec 2020
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 31 Oct 2019 Addendum Amount: \$48,000.00
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 3 Sep 2020 Addendum Amount: \$95,469.00
 Contract Date: 3 September 2020

Summary for Invoice: 022-039
 Project Name: Wahoo Creek Watershed Plan/EA

Tasks	Contracted Fee	Previously Billed	This Invoice	Total To Date
022-17-02-1.01 Coord Meetings w/LPNNRD	\$ 5,724	\$ 16,175.49	\$ -	\$ 16,175.49
022-17-02-1.02-Coord Meetings w/NRCS	\$ 8,904	\$ 11,366.25	\$ -	\$ 11,366.25
022-17-02-1.03-Project Meetings	\$ 49,372	\$ 23,605.04	\$ -	\$ 23,605.04
022-17-02-1.04-Monthly Invoicing/Schedule	\$ 7,875	\$ 13,510.50	\$ -	\$ 13,510.50
022-17-02-1.05-Project Scoping	\$ 7,170	\$ 7,068.75	\$ -	\$ 7,068.75
022-17-02-1.06-Plan Review	\$ 6,740	\$ 24,541.09	\$ -	\$ 24,541.09
022-17-02-2.01-Develop, Write & Summarize Plan	\$ 60,100	\$ 83,011.48	\$ -	\$ 83,011.48
022-17-02-2.02-Maintain Admin Record	\$ 3,560	\$ 859.25	\$ -	\$ 859.25
022-17-02-2.03-Develop and Describe Purpose & Need	\$ 2,320	\$ 1,820.00	\$ -	\$ 1,820.00
022-17-02-2.04-Formulate, Describe & Compare Alternatives	\$ 27,270	\$ 19,239.25	\$ -	\$ 19,239.25
022-17-02-2.05-Collect & Analyze Social/Demographic Data	\$ 1,435	\$ 1,562.50	\$ -	\$ 1,562.50
022-17-02-2.06-Historic & Cultural Resources	\$ 675	\$ 9,869.00	\$ -	\$ 9,869.00
022-17-02-2.07-Prime & Unique Farmland	\$ 675	\$ 2,404.75	\$ -	\$ 2,404.75
022-17-02-2.08-Identify Wetlands & Other Water Bodies	\$ 117,145	\$ 102,862.36	\$ -	\$ 102,862.36
022-17-02-2.09-Collect Soils Data	\$ 810	\$ -	\$ -	\$ -
022-17-02-2.10-Identify and Analyze Soil Erosion	\$ 810	\$ 1,952.75	\$ -	\$ 1,952.75
022-17-02-2.11-Collect & Analyze Floodplain Data	\$ 3,900	\$ 6,521.00	\$ -	\$ 6,521.00
022-17-02-2.12-Collect & Analyze Data on Critical Areas	\$ 6,300	\$ 3,071.00	\$ -	\$ 3,071.00
022-17-02-2.13-Identify Land Use and Crop Inventory	\$ 810	\$ 1,125.00	\$ -	\$ 1,125.00
022-17-02-2.14-T&E Species & Migratory Birds	\$ 11,500	\$ 12,192.50	\$ -	\$ 12,192.50
022-17-02-2.15-Consumptive Use Data	\$ 1,840	\$ 1,366.50	\$ -	\$ 1,366.50
022-17-02-2.16-Effects on Public Health & Safety	\$ 4,440	\$ 1,936.00	\$ -	\$ 1,936.00
022-17-02-2.17-Effects to Homes/Bus/Ag	\$ 4,440	\$ 4,124.75	\$ -	\$ 4,124.75
022-17-02-2.18-Cummulative Impacts	\$ 11,080	\$ 2,821.25	\$ -	\$ 2,821.25
022-17-02-2.19-Federal, State & Local Permits	\$ 1,790	\$ 1,775.00	\$ -	\$ 1,775.00
022-17-02-2.20-Conflicts w/Other Plans	\$ 4,460	\$ 3,822.50	\$ -	\$ 3,822.50
022-17-02-2.21-Interagency & Public Involvement	\$ 2,940	\$ 5,197.02	\$ -	\$ 5,197.02
022-17-02-2.22-Risk & Uncertainty	\$ 4,880	\$ 4,292.00	\$ -	\$ 4,292.00
022-17-02-2.23-Preferred Alternatives Discussion	\$ 11,840	\$ 14,006.00	\$ -	\$ 14,006.00
022-17-02-2.24-Mitigation Features	\$ 6,760	\$ 4,486.00	\$ -	\$ 4,486.00
022-17-02-2.25-Hydrologic Investigation	\$ 26,460	\$ 33,403.25	\$ -	\$ 33,403.25
022-17-02-2.26-Economic Data & Discussion	\$ 14,640	\$ 51,211.00	\$ -	\$ 51,211.00
022-17-02-2.27-Installation & Financing	\$ 2,600	\$ 775.00	\$ -	\$ 775.00
022-17-02-2.28-Operations, Maintenance & Replacement	\$ 3,240	\$ 740.00	\$ -	\$ 740.00
022-17-02-2.29-Project Maps	\$ 24,850	\$ 28,438.25	\$ -	\$ 28,438.25
022-17-02-2.30-Utility Investigations	\$ 5,200	\$ 1,940.00	\$ -	\$ 1,940.00
022-17-02-2.31-Recreation Site 77 Planning	\$ 7,350	\$ -	\$ -	\$ -
022-17-02-3.01-Interagency Scoping Mtg	\$ 10,720	\$ 6,396.50	\$ -	\$ 6,396.50
022-17-02-3.02-Agency Coord	\$ 7,680	\$ 6,181.00	\$ -	\$ 6,181.00
022-17-02-4.01-Breach Analysis	\$ 26,343	\$ 36,054.50	\$ -	\$ 36,054.50
022-17-02-4.02-Hydraulics/Structure Sizing	\$ 19,244	\$ 30,321.25	\$ -	\$ 30,321.25
022-17-02-4.03-Develop Land Rights & Structure Costs	\$ 29,784	\$ 29,048.25	\$ -	\$ 29,048.25
022-17-02-4.04-Land Rights Assessment	\$ 4,534	\$ 1,496.25	\$ -	\$ 1,496.25
022-17-02-4.05-Site Survey	\$ 14,779	\$ 5,080.00	\$ -	\$ 5,080.00
022-17-02-5-Additional services for the Wahoo Creek Watershed Plan-EA	\$ 48,000	\$ 6,033.02	\$ -	\$ 6,033.02
022-17-02-6.01-Additional Services-Economics-Project Management	\$ 8,329	\$ 1,890.00	\$ 187.50	\$ 2,077.50
022-17-02-6.02-Additional Services-Economics-Flood Damage Reduction Economics	\$ 64,690	\$ 14,185.00	\$ 12,520.50	\$ 26,705.50
022-17-02-6.03-Additional Services-Economics-Revised Plan Economics	\$ 22,450	\$ 5,339.00	\$ 300.00	\$ 5,639.00
Totals:	\$ 718,459	\$ 645,117.25	\$ 13,008.00	\$ 658,125.25



Dodge County Flood Mitigation

Disaster 4420 Flood Mitigation Projects

This document summarizes flood mitigation projects identified following the 2019 Floods. The document proposes a project strategy to implement flood mitigation within Dodge County.



Dodge County Flood Mitigation

Disaster 4420 Flood Mitigation Projects

Mitigation

Mitigation is the effort to reduce loss of life and property by lessening the impact of disasters. Mitigation is taking action now—before the next disaster—to reduce human and financial consequences later.

Mitigation is any action “determined to be cost-effective which substantially reduces the risk of future damage, hardship, loss, or suffering in any area affected by a major disaster” (Stafford Act, P.L. 93-288, as amended, Sec 404)

Hazard mitigation planning is a process in which natural and human-caused hazards are evaluated; at-risk facilities and vulnerable people are assessed for threats and potential vulnerabilities; and strategies and mitigation measures are identified. Hazard mitigation planning increases the ability to effectively function in the face of natural and human-caused disasters. The goal of the process is to reduce risk and vulnerability of hazard events to people, property, and infrastructure.

According to a FEMA 2017 Interim Report, every \$1 dollar spent on mitigation saves \$6 dollars in response and recovery costs. In Nebraska, this ratio is calculated as \$1 dollar spent on mitigation to \$13 dollars saved in response and recovery costs.

County Emergency Management Program

Mitigation is the foundation of an all hazards, risk-based emergency management program. It saves lives, reduces property damage, and helps to preserve the economy in the disaster area. Through the Dodge County Emergency Management Agency, the county government develops and maintains an ongoing program of mitigation, preparedness, response, and recovery. County Emergency Management supports local jurisdiction’s mitigation efforts.

Joint Water Management Advisory Board

In an effort to identify solutions to the 2019 Flood devastation and to reduce future impacts of flooding, twelve political subdivisions have come together and formed the Joint Water Management Advisory Board (JWMAB). The Board includes representatives from improvement districts, levee districts, drainage districts, municipalities, townships, county, and a natural resource district. All of these political subdivisions have infrastructure within the floodplain. Members of the Board make recommendations on water management solutions to the governing body of each partner. The Dodge County Board Chairman chairs the JWMAB.

Open to the public, these Board meetings have engaged community members, allowing them to voice concerns on flood issues.



Projects

A variety of flood mitigation projects have been pursued beginning in July 2019. The list below summarizes the projects that have taken place since July 2019 involving County Emergency Management.

1. Nonstructural-Planning

1.1. Rawhide Creek Watershed Plan and Environmental Assessment (Plan-EA) for flood prevention

This planning initiative will result in a Plan-EA that will identify and prioritize specific structural actions to accomplish the flood prevention purpose along the Platte River. It will assist the JWMAB in identifying the most cost-effective locations to site bridge/culvert/channel improvements, berms, dams, and detention structures.

- Estimated Project Costs- \$745,000.00
- Project Applicant-Dodge County
- Core Partners-JWMAB

1.2. Hazard Mitigation Plans

Hazard Mitigation Plans identify risks, projects, and strategies aimed at enhancing community resilience and preparedness for specific hazards. Jurisdictions must participate and adopt a hazard mitigation plan to be eligible for Federal mitigation dollars. Both the Lower Plate North Natural Resource District (LPNNRD) and Lower Elkhorn Natural Resources District (LENRD) plans were developed in 2019-2020 and approved in 2020.

- Project Applicant-Natural Resource Districts

2. Structural-New Projects Structure

2.1. Elkhorn Township/East Fremont

Develop a drainage project to be readily implemented in the Elkhorn Township area (East Fremont). A project study will be completed to assess Fremont's internal drainage needs and examine the out-letting drainage ditch system in the Elkhorn Township area east of Fremont. This project will assess the holistic situation and propose project alternatives to be pursued and a finalized design to submit with a hazard mitigation application to State and Federal partners. Drainage strategies to be explored include establishing wells in the Fremont area to pump groundwater to help dewater high water table where development is located or planned, detention basins/ponds to be developed into wetlands, and widening, rerouting, or straightening existing drainage ditches or a combination of aforementioned strategies.

- Estimated Project Costs- \$800,000.00
- Project Applicant-Dodge County
- Core Partners-Dodge County, City of Fremont, LPNNRD



2.2. Platte Township/West Fremont

The project will identify and scope a flood mitigation solution to incorporate into the existing synergistic infrastructure network of ditches, culverts, levees, and dams that protect Dodge County from flash flooding and river/stream flooding. This Project's overall goal will be to develop a flood mitigation project to be readily implemented in the Platte Township area (West Fremont).

- Estimated Project Costs- \$250,000.00
- Project Applicant-Dodge County
- Core Partners-Dodge County, City of Fremont, LPNNRD

3. Structural-Existing

3.1. North Bend Cutoff Ditch

The goal of the project is to increase the 4.2-mile North Bend Cutoff Ditch's capacity to convey flood waters (250 yr event) into the Platte River. To accomplish the goal, the project will be conducted in a phased approach.

- Estimated Project Costs- \$1,633,357.47
- Project Applicant-North Bend Drainage District (NBDD)-Dodge County Support
- Core Partners-Dodge County, NBDD, City of Fremont, LPNNRD, City of North Bend
*Interlocal Signed -NBDD .5% other partners 6.1% of local cost share

3.2. Rod and Gun Club-Breach Lake

The project will repair the 2019 flood damaged levee at the Rod and Gun Club and obtain easement for the levee. As a private entity, the club was not eligible for federal dollars to make the repairs. This levee was further damaged during 2020 flooding. The City of Fremont will obtain the easement for the levee, therefore making the levee eligible for future federal assistance and ensuring proper maintenance.

- Estimated Project Costs- \$485,000.00
- Project Applicant-Dodge County
- Core Partners-Dodge County, City of Fremont, LPNNRD, Rod and Gun Club *Interlocal Signed -Club \$12,380.00 other partners \$50,000

3.3. North Bend Levee

The LPNNRD has 4420DR Public Assistance funds available through the 428 Alternate Project program. Project eligibility will be determined for repairs to the levee south of North Bend.

- Funding available- \$1,000,000.00
- Project Applicant-LPNNRD
- Core Partners-LPNNRD, City of North Bend



3.4. City of Fremont, Railroad, Farmland Levee

The City of Fremont is seeking to include the levee in the USACE PL 84 program. This project requires repairing and maintaining the levee to meet the standards under the USACE program.

- Funding available- UNK
- Project Applicant-City of Fremont
- Core Partners-City of Fremont, USACE

4. Structural-Individual Flood Proofing

4.1. Dodge County Elevations

This project includes nine voluntary parcel owners who want to elevate their first-floor living area to above the required BFE elevations plus freeboard. None of these homes were substantially damaged in the 2019 flooding and all have completed repairs to their structures since the 2019 Flood.

- Estimated Project Costs- \$388,060.00
- Project Applicant-Dodge County
- Core Partners-Dodge County and homeowners *Homeowners responsible for local cost share

4.2. Fremont Elevations

Similar to the Dodge County Project, this project includes two voluntary parcel owners within the City of Fremont's ETJ who want to elevate their first floor living area to above the required BFE elevations plus freeboard.

- Estimated Project Costs- UNK
- Project Applicant-City of Fremont
- Core Partners-City of Fremont and homeowners

4.3. Fremont USACE 205

USACE Section 205 Flood Risk Management Program report recommends the elevation of 60 structures, dry floodproofing of 65 structures, and wet floodproofing of 2 structures.

- Estimated Project Costs- \$11,313,053.00
- Project Applicant-City of Fremont
- Core Partners-City of Fremont, USACE, and homeowners



4.4. Winslow Acquisitions

This project includes fifty-three voluntary parcel owners who are wanting to sell their properties located within the floodplain.

- Estimated Project Costs- \$4,756,563.58
- Project Applicant-Village of Winslow
- Core Partners-Village of Winslow, State of Nebraska, LENRD,

5. Nonstructural-Warning Systems

5.1. Project River Monitoring

The project will be implemented in 2 phases; Phase 1, install two river gauges and five up-river facing cameras. The Five cameras will work in conjunction with the stream gauges at five critical sites: Highway 15 Bridge, Highway 77 Bridge, Highway 64 Bridge, near Burlington Railroad Bridge, and Highway 79 Bridge. Phase 2, install an additional five cameras facing down-stream opposite the camera's installed in Phase 1. The additional cameras provide additional coverage of downstream. This is significant for situational awareness of the obstructions that often occur around the bridge structure itself.

- Estimated Project Costs- \$27,364.00
- Project Applicant-Dodge County
- Core Partners-Dodge County, City of Fremont, LPNNRD, Papio-Missouri Natural Resource District *Interlocal Signed LPNNRD-14.5% other partners 3.5% of local cost share

5.2. Fremont Public Warning Project

The project explores the necessity of increasing flood warning capabilities for residents of Fremont. The Nebraska Silver jackets is conducting an analysis to help the city prepare to submit grants to purchase outdoor warning sirens or public warning devices.

- Estimated Project Costs-UNK
- Project Applicant-City of Fremont
- Core Partners-City of Fremont, USACE-Silver jackets

Federal Funding

Multiple sources of funding have been identified to support mitigation projects.

- [FEMA Mitigation 404 Program](#)- As the result of a Presidential Disaster Declaration, FEMA's Hazard Mitigation Grant Program (HMGP) funds plans and projects that reduce the effects of future natural disasters.
 - Cost Share 75% Federal, 25% local

Mitigation Projects



- **FEMA Mitigation BRIC Program**- The Building Resilient Infrastructure and Communities (BRIC) program makes federal funds available for pre-disaster mitigation activities.
 - Cost Share 75% Federal, 25% local
- **FEMA Public Assistance 428 Program**- 4420 DR funding that pertains to repair, restoration, and replacement of disaster-damaged public facilities (permanent work) not otherwise directly funded by Public Assistance dollars.
 - Cost Share 75% Federal, 25% local
- **Community Development Block Grants (CDBG)-Emergency Threat (EM)**-Through the Department of Economic Development, local governments can apply for up to \$450,000 to respond to emergent threats to public health, safety or welfare in the wake of disasters such as flooding, fire, tornados or other natural or man-made events.
 - Matching funds are not required.
- **Community Development Block Grants (CDBG)-Disaster Recovery (DR)**-Through the Department of Economic Development, local governments can apply for funding of unmet needs. Unmet needs, as defined by HUD, are needs that are not covered by other funding sources and can be covered by CDBG-DR funds. This includes 25% costs share (25%) for Public Assistance and Mitigation projects. The State will receive a \$108.9 million grant, with \$87 million set aside for Dodge, Douglas, and Sarpy Counties.
 - Matching funds are not required.
- **Natural Resources Conservation Service (NRCS)-Emergency Watershed Protection (EWP) program**- designed to help people and conserve natural resources by relieving imminent hazards to life and property caused by floods, fires, wind-storms, and other natural occurrences. EWP is an emergency recovery program.
 - Cost Share-Planning 100%, Construction 75% Federal, 25% local
- **USACE 205**-Under Section 205, the U.S. Army Corps of Engineers (USACE) is authorized to study and construct projects to reduce the risks of flooding, loss of life, and property damage in partnership with state and local governments. The Feasibility Cost Share Agreement (FCSA) was executed in March 2005 between the Lower Platte North Natural Resource District (LPNNRD) and the USACE Omaha District to analyze potential solutions to reduce flood risks within the City of Fremont and surrounding areas.
 - Cost Share 65% Federal, 35% local

Project Status Report

The table below is the status report for mitigation projects as of December 29th, 2020. FEMA projects have a period of performance date by which to complete projects.

Core Strategy	Projects	Project Sponsor/Applicant	Federal Funding	Activities			
				Documented	Federal Approval	Implementation	Project Closed
1. Non-Structural Planning	1.1 Rawhide Creek Watershed Plan-EA	Dodge County	NRCS-EWP	In progress	In progress		12/2022
	1.2 LPNNRD Multi-jurisdictional Hazard Mitigation Plan	LPNNRD	FEMA Mitigation	Complete	Complete	Complete	
	1.2 LENRD Multi-jurisdictional Hazard Mitigation Plan	LENRD	FEMA Mitigation	Complete	Complete	Complete	
2. Structural-New Projects Structure	2.1 Elkhorn Township/East Fremont	Dodge County	FEMA Mitigation-4420 404 program	Complete	In progress		9/1/2023
	2.2 Platte Township/West Fremont	Dodge County	FEMA Mitigation-BRIC Program	In progress			9/1/2024
3. Structural-Existing	3.1 North Bend Cutoff Ditch	North Bend Drainage Ditch-Dodge County	FEMA Mitigation-4420 404 program	Complete			9/1/2023
	3.2 Rod and Gun Club-Breach Lake	Dodge County	CDBG-EM	Complete	Complete	In progress	n.d.
	3.3 North Bend Levee	LPNNRD	FEMA 4420 428 Program Funds	In progress			9/1/2021
	3.4 City of Fremont, Railroad, Farmland Levee	City of Fremont		In progress			n.d.
4. Structural-Individual Flood Proofing	4.1 Dodge County Elevations	Dodge County	FEMA Mitigation-4420 404 program	Complete			9/1/2023
	4.2 Fremont Elevations-FEMA	City of Fremont	FEMA Mitigation-4420 404 program	Complete			9/1/2023
	4.3 Fremont Flood Proofing-USACE	City of Fremont	USACE-205	Complete			n.d.
	4.4 Winslow Acquisitions	Village of Winslow	FEMA Mitigation-4420 404 program	In progress			9/1/2023
5. Non-Structural-Warning Systems	5.1 Platte River Monitoring	Dodge County	FEMA Mitigation-4420 404 program	Complete			9/1/2023
	5.2 Fremont Sirens-Silver Jackets	City of Fremont	Not Determined	In progress			n.d.



In progress
Complete



Key elements of mitigation projects-Project Sponsor Dodge County

The table below outlines assumptions and concerns for mitigation projects.

1.1 Rawhide Creek Watershed Plan-EA

Assumptions	<p>This plan drives flood mitigation activities. This planning initiative will result in a Plan-EA that will identify and prioritize specific structural actions to accomplish the flood prevention purpose.</p> <p>The primary alternatives will not include projects along the Platte or Elkhorn Rivers that fall under U.S. Army Corps of Engineers (USACE) federal jurisdiction.</p>
Key Concern	<p>Timing-Ideal if project began prior to Elkhorn Township/East Fremont and Platte Township/West Fremont projects. The recommended Plan-EA will most likely include a combination of structural and non-structural actions. The JWMAB could leverage local funding with NRCS engineering and construction funding to expand the Plan-EA benefits for projects approved within NRCS scope.</p>

2.1 Elkhorn Township/East Fremont

Assumptions	<p>It is anticipated this will be the first project with federal approval.</p>
Key Concern	<p>Project Construction-Federal funding covers cost for studies, cost and environmental analysis, final designs, and complete project application. Does not fund actual construction of determined project. Project application will be submitted for another grant.</p>

2.2 Platte Township/West Fremont

Assumptions	<p>This project will be supported by local partners similar to the Elkhorn Township/East Fremont Project.</p>
Key Concern	<p>New Program-The BRIC program is a new program which may be prolonged due to State unfamiliarity. Like</p>

Mitigation Projects



the Elkhorn Township project, this project does not fund actual construction.

3.1 North Bend Cutoff Ditch

Assumptions

It is anticipated this will be one of the first projects with federal approval.

Key Concern

Period of Performance-FEMA 4420DR Mitigation projects are to be completed by 9/2023. This is a phased project: phase 1 includes project scoping then technical review by FEMA, phase 2 is the actual construction. COVID-19 has impacted FEMA and State's ability to review projects. If not approved soon and phase 1 FEMA's technical review takes another three months, the project may not be closed by 9/2023

3.2 Rod and Gun Club-Breach Lake

Assumptions

This project will be complete by summer 2021.

Key Concern

Management- A lot of items to be completed by multiple partners-City of Fremont securing easements, private partnership involvement, economic development grant submission, and reporting.

4.1 Dodge County Elevations

Assumptions

City and County projects to run parallel. City and County work together to create pool of qualified contractors for homeowners.

Key Concern

Social Tenor and Finances; Homeowner fatigue and economic impact from disasters (flooding and COVID-19). As with multiple projects, the process for federal and state approval has exceeded normal timelines for project turnaround.

Mitigation Projects



5.1 Platte River Monitoring

Assumptions

Phase 1 equipment will be in place by ice jam season (Feb 2021)

Key Concern

Timing-Partners are ready to implement. Mitigation projects cannot begin construction without federal approval of mitigation application. Otherwise we risk losing federal funding for the project.

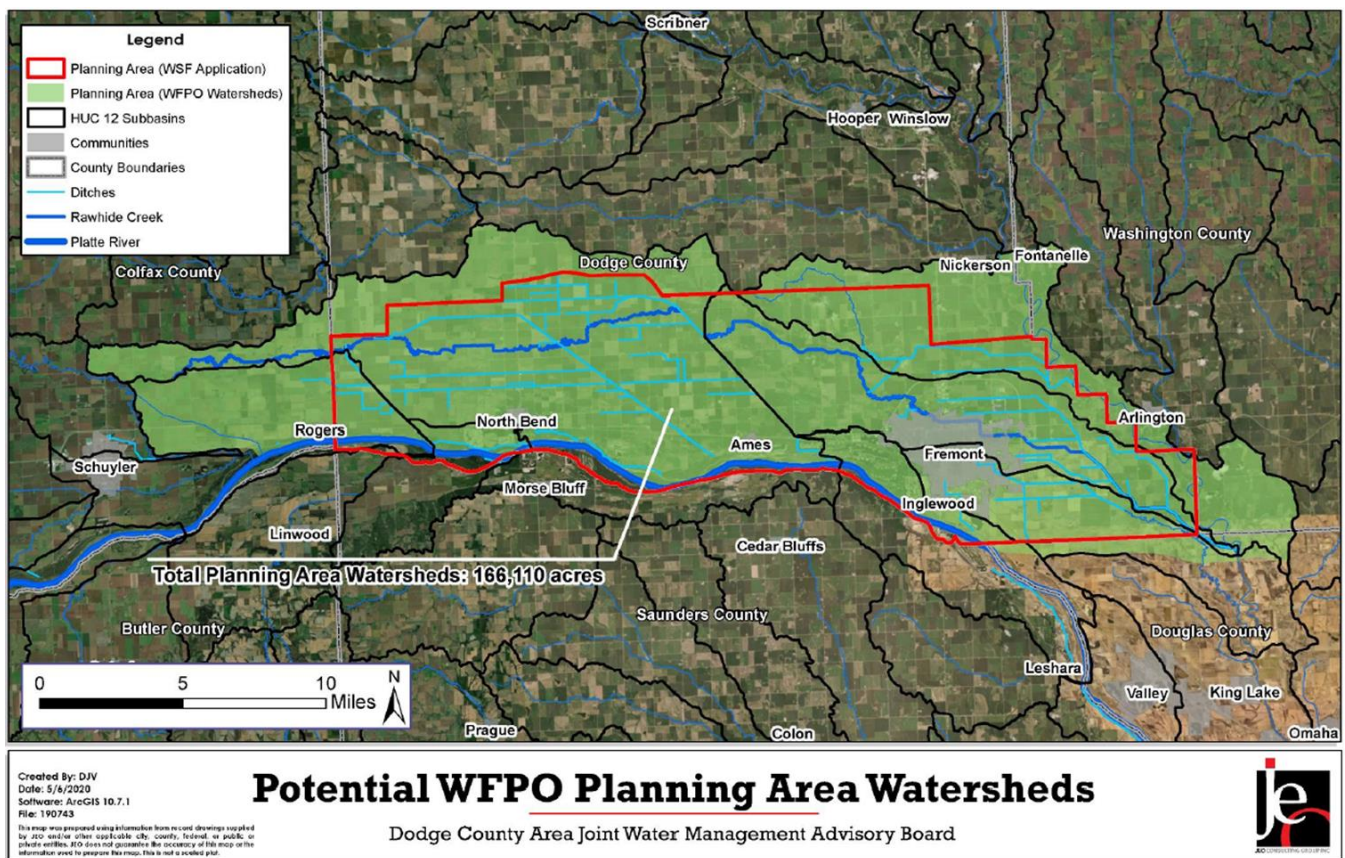


Figure 1: Rawhide Creek Watershed Plan and EA Planning Area

Mitigation Projects



Strategy

Following the 2019 flood, multiple jurisdictions/taxing authorities in Dodge County pursued mitigation project funding. Collaboration between members of the Joint Water Management Advisory Board focused mitigation efforts within the County. In 2021 it is anticipated many of the aforementioned mitigation projects outlined in this document will be approved to be funded. Each project supports the strategy to increase the flood resilience within Dodge County. The Rawhide Creek and Watershed Plan and EA will help identify alternative projects supporting the strategy of flood mitigation. The plan and EA will need to be considered while scoping the Elkhorn and Platte Township projects. This plan may identify NRCS eligible projects that may present a better cost share than offered by FEMA. Therefore, it would be strategically beneficial to allow the Rawhide Creek Watershed Plan and EA process to move forward in development prior to implementing Elkhorn Township Project and Platte Township Project or new project development. Additionally, Dodge County should pursue CDBG-DR funding to reimburse local cost share for projects.

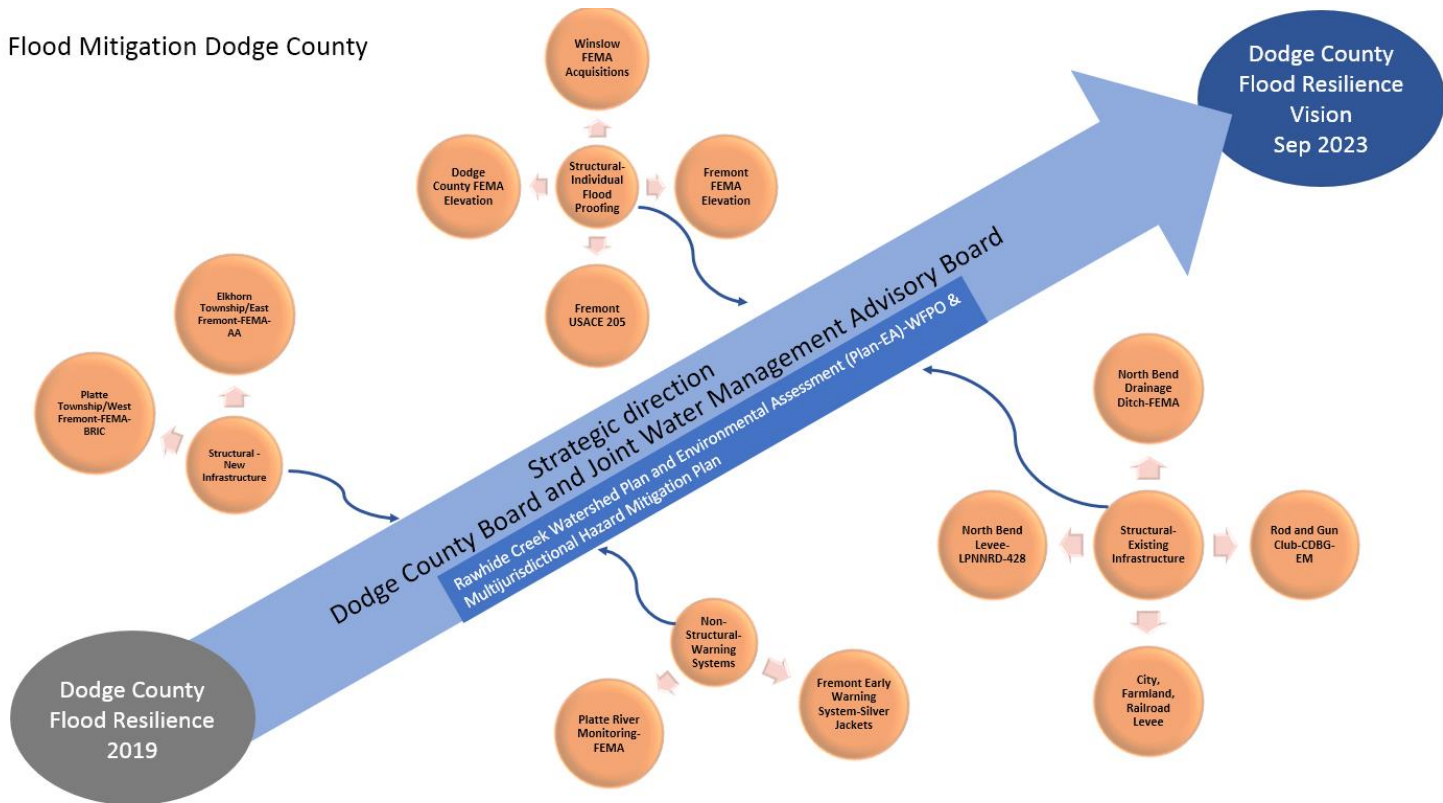
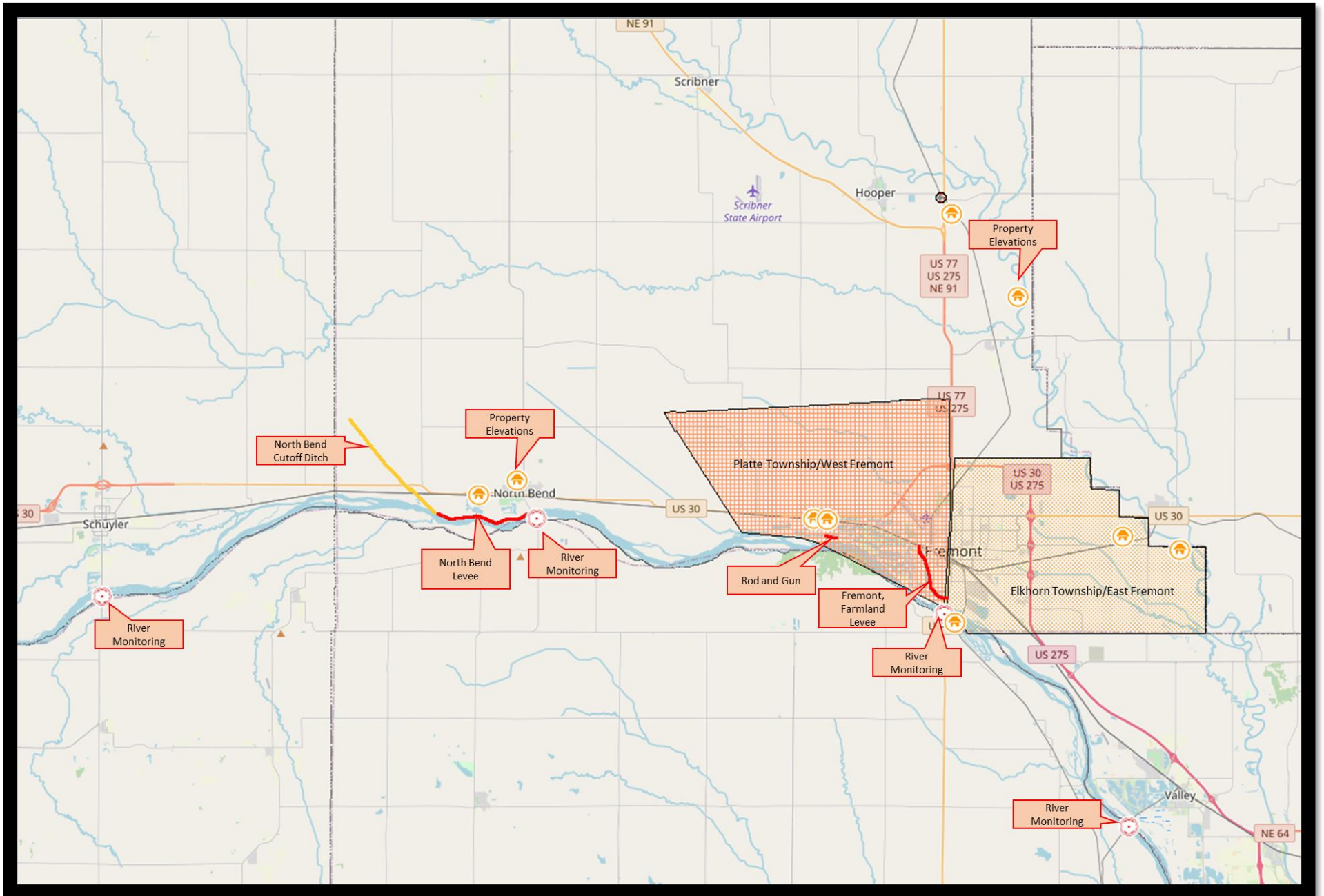


Figure 2: Flood Resilience Strategic Direction

Mitigation Projects



Jurisdiction	Approved	Sent to NEMA?
Lower Platte North NRD	Yes	9/18/2020
Butler County	Yes	12/22/2020
Village of Abie	Yes	10/2/2020
Village of Bellwood		
City of David City	Yes	9/18/2020
David City Volunteer Fire Department	Yes	10/16/2020
David City Public School District	Yes	9/18/2020
Village of Dwight	Yes	10/30/2020
Dwight Volunteer Fire Department	Yes	10/30/2020
Village of Garrison	Yes	10/2/2020
Village of Linwood	Yes	12/7/2020
Linwood Volunteer Fire Department		
Village of Octavia	Yes	10/30/2020
Village of Surprise		
Village of Ulysses	Yes	10/16/2020
Platte Township	Yes	12/22/2020
Dodge County	Yes	9/18/2020
Ames Diking and Drainage District	Yes	9/18/2020
Cotterell Diking and Drainage District	Yes	10/30/2020
City of Fremont	Yes	9/18/2020
Village of Inglewood	Yes	9/18/2020
Lake Ventura SID #3	Yes	9/18/2020
City of North Bend	Yes	9/18/2020
North Bend Volunteer Fire Department		
North Bend Drainage District	Yes	9/18/2020
Saunders County	Yes	10/2/2020
Village of Cedar Bluffs	Yes	10/16/2020
Cedar Bluffs Suburban Fire Protection District	Yes	10/2/2020
Cedar Bluffs Public School District	yes	9/18/2020
Village of Colon	Yes	10/2/2020
Colon Volunteer Fire Department		
Village of Ithaca	yes	10/2/2020
Village of Leshara	yes	9/18/2020
Village of Malmo	Yes	10/30/2020
Village of Mead	Yes	10/16/2020
Mead Public School District	Yes	10/30/2020
Woodcliff Lakes SID #8	yes	9/18/2020
Village of Memphis		
Village of Morse Bluff	Yes	12/7/2020
Platte Valley Drainage District	yes	10/16/2020
Pohocco Township		
Village of Prague	yes	10/2/2020
City of Wahoo	Yes	10/2/2020
Village of Weston	Yes	10/30/2020
Weston Volunteer Fire & Rescue Department	Yes	10/30/2020

City of Yutan	yes	9/18/2020
Yutan Volunteer Fire Department		
East Central District Health Department		
Village of Lindsay	Yes	10/16/2020
City of Newman Grove	Yes	10/16/2020
Village of Platte Center		
Village of Richland		
Village of Rogers	Yes	10/30/2020
City of Schuyler	yes	9/18/2020
Schuyler Fire Department	Yes	12/22/2020
Total		

Total

NOTES

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44 out of 55

Wednesday, August 25, 2021

**Saunders County SID No. 8
(Woodcliff Lakes)
Lower Platte North NRD
Projects Committee/Board Meetings**

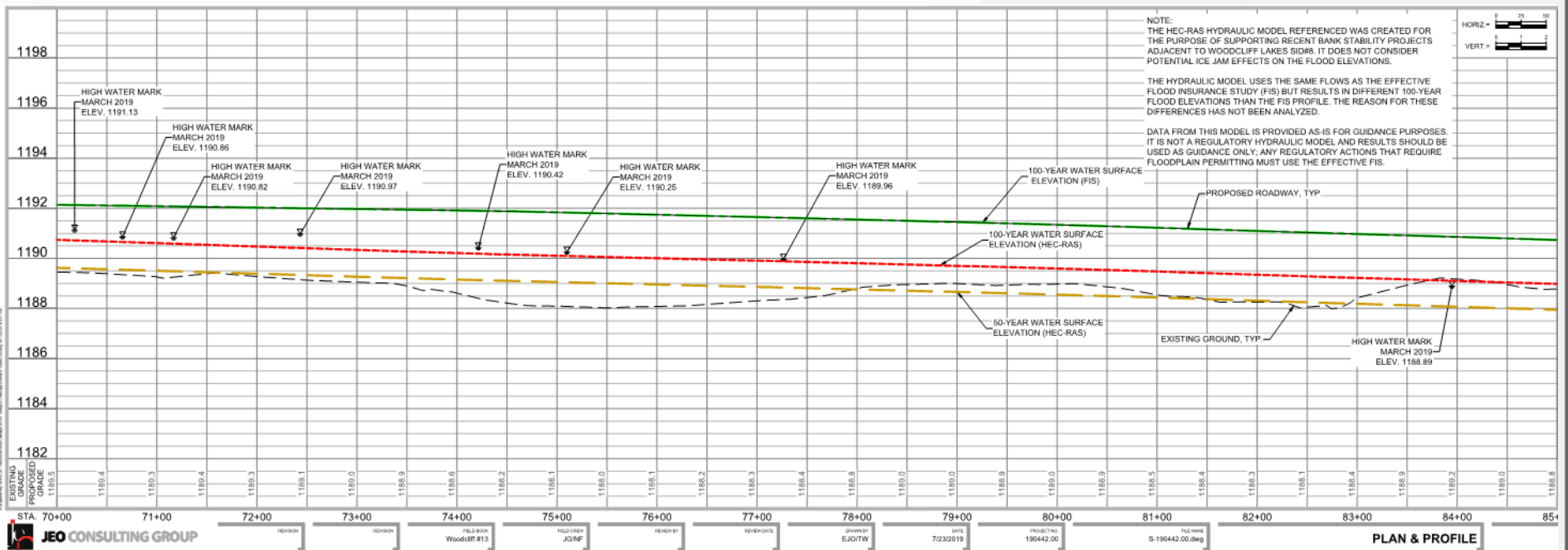
December 2020





Road Raise Flood Risk Reduction Project

- ✓ FEMA HMGP NOI not prioritized
- ✓ SID elected to proceed with project to gain additional flood protection
- ✓ Construction completion estimated Spring 2021
- ✓ Total Cost (Engineering + Construction: \$740,288)



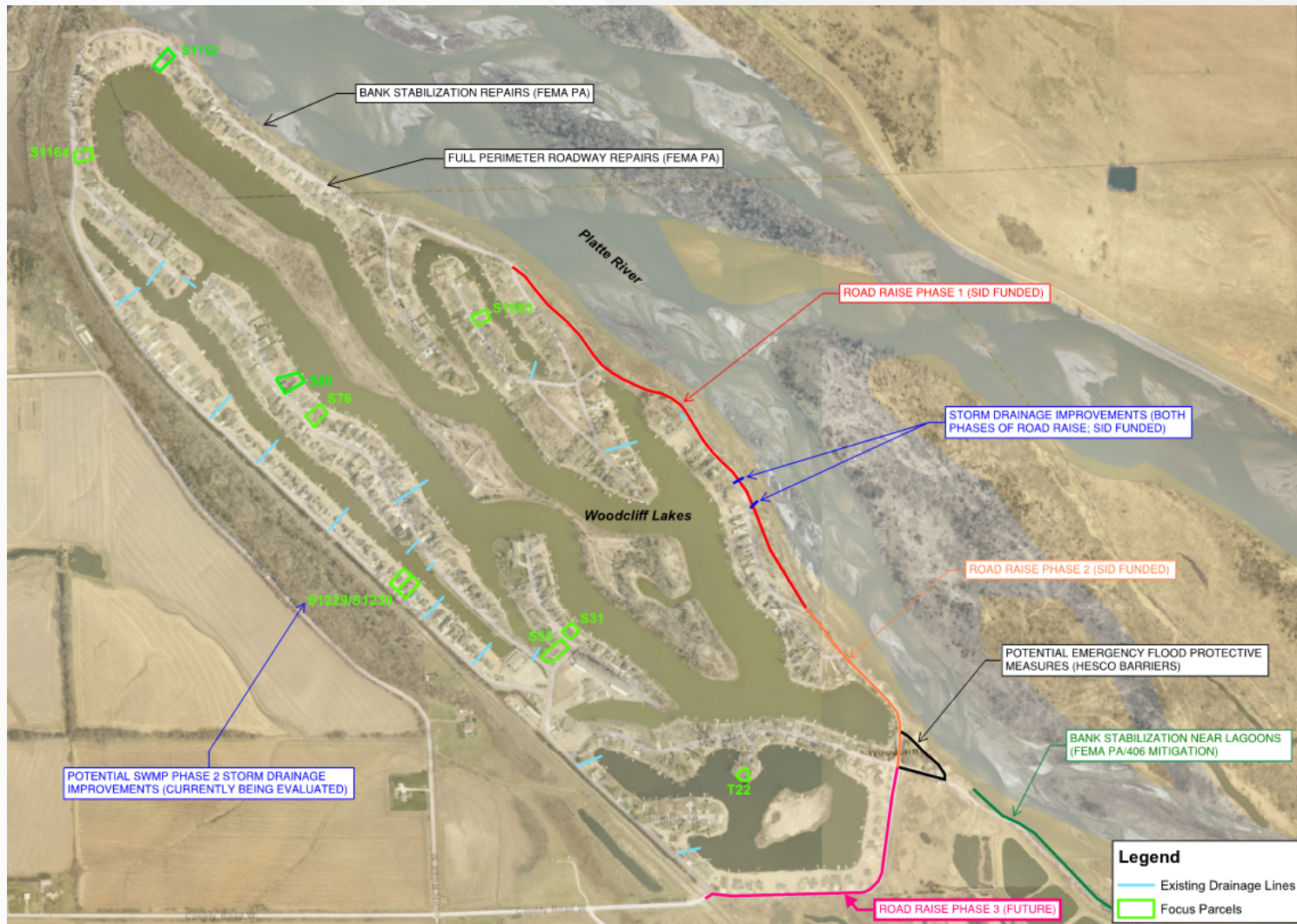


Road Raise Flood Risk Reduction Project

- ✓ Initial phase combined with flood repairs project (Bid Groups B & C)
 - Construction = \$246,142.50; Engineering = \$54,036.00
- ✓ Sawyer Construction awarded contract in November 2019
- ✓ Additional phases added as design was completed
 - Change Order No. 2 = \$152,306.75 (Cumulative project total = \$452,485.25)
 - Change Order No. 3 = \$287,803.04 (Cumulative project total = \$740,288.29)
- ✓ Work is currently approximately 75% complete



Overall Location Map





Post-2019 Flood Projects

- ✓ Road Raise Flood Risk Reduction Project
 - Raise roadway adjacent to the River to 100-year elevation
 - Additional bank stabilization, 400 linear feet
 - Storm drainage improvements
- ✓ FEMA PA and 406 Mitigation Projects
 - Bank Stabilization/Roadway Repairs
 - Bank Stabilization near Lagoon
 - Emergency Measures



FEMA PA/406 Mitigation Project

- ✓ Bank Stabilization Flood Damage Repairs: \$131,260
 - Construction complete
- ✓ Roadway Flood Damage Repairs: \$96,709
 - Construction complete
- ✓ Bank Stabilization near Lagoon: \$692,657
 - Currently awaiting USACE 404 Permit; Winter 2021 construction
- ✓ Emergency Protective Measures: \$78,542
 - Completed during flood event of 2019

- ✓ Total Cost Split for Flood Damage Repairs:
 - FEMA/NEMA: \$822,194
 - SID: \$137,032

Tom Mountford

From: Case, Steven P. <SCase@mcgrathnorth.com> on behalf of Case, Steven P.
Sent: Friday, December 18, 2020 12:10 PM
To: Tom Mountford
Cc: egottschalk@lpnnrd.org; Daryl Andersen; Sean Elliott; bheimann@lpnnrd.org; Jovan Lausterer; Jill Breunig; alexkavan@yahoo.com; Bob Hilger; Chris Yosten; Dave Saalfeld; Don Veskerna; Frank Pollard; Gene Ruzicka; Jerry Johnson; Joe Birkel; John Hannah; kelly@tci1980.com; Larry Feala; Lon Olson; Mark Seier; Matt Bailey; Nancy Meyer; Robert Meduna; ryansabatka@icloud.com; william.saeger@gmail.com
Subject: RE: Industrial Water Use from LPNNRD Reservoirs and Irrigation Wells

Tom

A few comments.

We will not look further at possibly using the Bellwood 5 H reservoir.

It is unlikely that we will look further at using the Bellwood 2 C reservoir. If we are able to firm this up prior to the 12/30/20 committee meeting, I will let you know.

In regard to the irrigation well that we plan to use, it would be a primary source, not a backup source, as far as using the water for dust control. The well is not in a special quantity area.

Steve

Steven P. Case
Attorney

Phone: 402.633.1479
Mobile: 402.681.6417
Fax: 402.952.1879
Email address: scase@mcgrathnorth.com

McGrath | North First National Tower | Suite 3700 | 1601 Dodge St. | Omaha, NE 68102

From: Tom Mountford <tmountford@lpnnrd.org>
Sent: Wednesday, December 16, 2020 2:41 PM
To: Case, Steven P. <SCase@mcgrathnorth.com>
Cc: egottschalk@lpnnrd.org; Daryl Andersen <dandersen@lpnnrd.org>; Sean Elliott <sellott@lpnnrd.org>; bheimann@lpnnrd.org; Jovan Lausterer <jlaus@wahoolaw.com>; Jill Breunig <jbreunig@lpnnrd.org>; alexkavan@yahoo.com; Bob Hilger <bobhilger14@hotmail.com>; Chris Yosten <yosten@icloud.com>; Dave Saalfeld <daveredfox@hotmail.com>; Don Veskerna <donveskerna@icloud.com>; Frank Pollard <pollard.flj@gmail.com>; Gene Ruzicka <generuzicka@icloud.com>; Jerry Johnson <jajohnson1927@gmail.com>; Joe Birkel <joebirke3@yahoo.com>; John Hannah <johnhannahcropdoc@gmail.com>; kelly@tci1980.com; Larry Feala <larry.feala@icloud.com>; Lon Olson <lon.olson@msn.com>; Mark Seier <maseier53@gmail.com>; Matt Bailey <mattpbailey78@gmail.com>; Nancy Meyer <nmeyer@istarter.com>; Robert Meduna <Robert.Meduna1@plantpioneer.com>; ryansabatka@icloud.com; william.saeger@gmail.com
Subject: Industrial Water Use from LPNNRD Reservoirs and Irrigation Wells

Steve,

As we discussed yesterday, on Monday, the LPNNRD Board did have some continued discussion regarding Keystone XL Pipeline's request for pumping water (10.7 million gallons) from a Bellwood Watershed floodwater dam reservoir, for pipeline leak testing and dust control in 2021. This discussion also included the possibility of Keystone negotiating with a private landowner to pump approximately 8.3 million gallons of water from an irrigation well near the project area. While no formal decision was made, some concerns and questions were presented. We are of the understanding that these water uses being considered are for backup purposes only, as Keystone is applying for a temporary pumping permit from the Platte River as the primary project water source. This permit is being handled by the Nebraska Department of Natural Resources (NDNR). To help sum things up at this point, below is a recap of what has been previously discussed and what future information will be helpful to LPNNRD.

Pumping from Bellwood Watershed Floodwater Retarding Dam Reservoirs

With regard to pumping from a Bellwood floodwater dam reservoir, most of these 13 structures in Butler County have reached or are nearing their estimated 50-year sediment storage life. This means the availability of surface water is greatly diminished as silt has replaced much of the originally designed permanent water pool in some instances. As mentioned earlier, this is especially true for the 50-year old Bellwood Structure 5 H, which is located about 2 miles north and 3 miles west of David City. LPNNRD holds landowner easements for operation and maintenance for the 13 dams, which includes holding the related impounded water rights. In the past, we have not been involved with allowing third party water pumping from our dams and reserved these rights, on a limited basis, for landowner irrigation purposes who have permanent water located on their property. As an example, in the 1970's, LPNNRD did allow one of the original landowners at structure 5H permission to pump limited irrigation water for crops. However, it appears that this activity has not occurred for several years. It was mentioned at the Board meeting that silt would likely need to be dredged from 5H before pumping could be considered, but dredging is a very involved and expensive process that the LPNNRD hasn't done previously.

Another structure discussed was Bellwood Flood Retarding Dam 2-C. Structure 2-C is located approximately 2 miles south and 1 mile west of the town of Bellwood. Structure 2-C's embankment is located in Section 36, Township 16 North, Range 1 East, but the majority of the permanent water is located to south in Section 1, Township 15 North, Range 1 East. The structure was built in 1993 with a total estimated permanent water storage capacity of 391.5 acre feet when new. If I calculated correctly, there would have been an estimated 127,570,666 million gallons of potential maximum permanent water capacity when constructed. Now being 27 years old, it is expected that about half of the original permanent water storage capacity has been replaced by sediment. Even for landowner irrigation, permits have been granted on a very limited basis and there are no active permits on any of our district structures that we are aware of. We are aware that many landowners use or enjoy the reservoirs for livestock water, recreation and aesthetic purposes. That being said, LPNNRD is very sensitive on maintaining good public relations with landowners associated with these dams and they would need to be agreeable to any outside use being considered. They would also need to provide any ingress/egress on their property.

My understanding from the Nebraska Department of Natural Resources (NDNR) is that your client's request would be for a one year temporary permit. Should the Board consider applying for such permit, it would be contingent on any NDNR and LPNNRD requirements and of course landowner concurrence.

Pumping Irrigation Water from a Private Landowner Irrigation Well

Considering the issues associated with pumping from one of the Bellwood dams, it appears using a private irrigation well for backup project use appears more probable. In this case, Keystone would work directly with a private landowner to negotiate using water from their irrigation well. LPNNRD would be less directly involved, but depending on where the well is located (i.e. a Special Water Quantity Area), we may need to work closely with the landowner and NDNR on the amount of water being used for this purpose.

We are planning for you and any other representatives to join our upcoming committee meetings to discuss the Keystone Pipeline Project plans and water needs. The Projects committee will discuss the water use request for our dams and the Water committee will discuss the water use from an irrigation well. Both committee meetings start at

7:30 a.m., Wednesday, December 30, 2020. We will coordinate with you about Zooming in to both meetings at different times. The full LPNNRD Board would then discuss the topic at their January 11, 2020 Board Meeting.

A few of the Board/staff questions or comments thus far are:

1. More detailed information is desired about the entire project scope (miles of pipeline, location, schedule etc.) .
2. In the past, how has Keystone previously tested for pipeline leaks and controlled dust on other portions of the project?
3. Would the planned water use be in the vicinity of the project area, all within LPNNRD boundaries, or would water be pumped several miles away? This might be an issue if pumping water occurs from one watershed basin into another.
4. Is a water flowmeter planned to be used to track the amount of water usage?
5. How would water be returned to a reservoir after pipe testing and what amount or percent would not be returned (i.e. normal loss for testing and amount loss for dust control). It would be murky water for the testing so how would this affect your testing? Returning it to the pond could change the water temperature which would be detrimental to fish populations. Also, would there be any residues in the pipe that might cause water quality issues?
6. With regard to water used from an irrigation well, how would that water be dispersed after use? Our assumption would be that the irrigation well water would be discharged over the surrounding land or to a tributary. So how does that work and what precautions are taken not to cause erosion, water runoff and environmental impacts to other property in the area?
7. What happens if we experience a severe drought in 2021 and the pumping severely depletes available reservoir water? In the case of an irrigation well, what happens if such pumping has an adverse effect on surrounding domestic or irrigation wells in the area?
8. Would it be possible or needed to meet with Keystone representatives to tour the subject area in our District, to obtain a better mutual understanding of the proposed project? Granted, that might be somewhat challenging this time of time of year and with parties dealing with virus issues.

We will keep in touch and please let me know if have any questions.

Sincerely,

Tom Mountford

Please let me know if you have any questions.

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End 41.499292, -96.896156

Elevation 1302'

Area of Interest for Damages

North Bend Central Jr-Sr High

Elevation 1271'

North Bend Cutoff Ditch East Bank Proposed Project Area 4.12 Miles

Start 41.453926, -96.840533

Elevation 1293'

Morse Bluff

Ames

North Bend Levee Repairs

ENGINEER'S BUDGETARY OPINION OF PROBABLE COST

0

	Construction Estimate	Engineering Estimate (20%)	Legal/Fiscal Estimate (10%)	Total Project Estimate
GROUP A - EMBANKMENT PROTECTION AT NB DRAINAGE DISTRICT TIE-IN (SITE 1)	\$ 372,350	\$ 74,470	\$ 7,447	\$ 454,267
GROUP B - CULVERT PIPE REPLACEMENT	\$ 106,150	\$ 21,230	\$ 2,123	\$ 129,503
GROUP C - EMBANKMENT PROTECTION AT RIVERVIEW (SITE 2)	\$ 366,300	\$ 73,260	\$ 7,326	\$ 446,886
GROUP D - EMBANKMENT PROTECTION AT HIGHWAY 15 BRIDGE (SITE 3)	\$ 598,400	\$ 119,680	\$ 11,968	\$ 730,048

\$ 1,760,704

ENGINEER'S BUDGETARY OPINION OF PROBABLE COST

North Bend Levee Repairs

North Bend, NE

JEO Project No. 190489.01

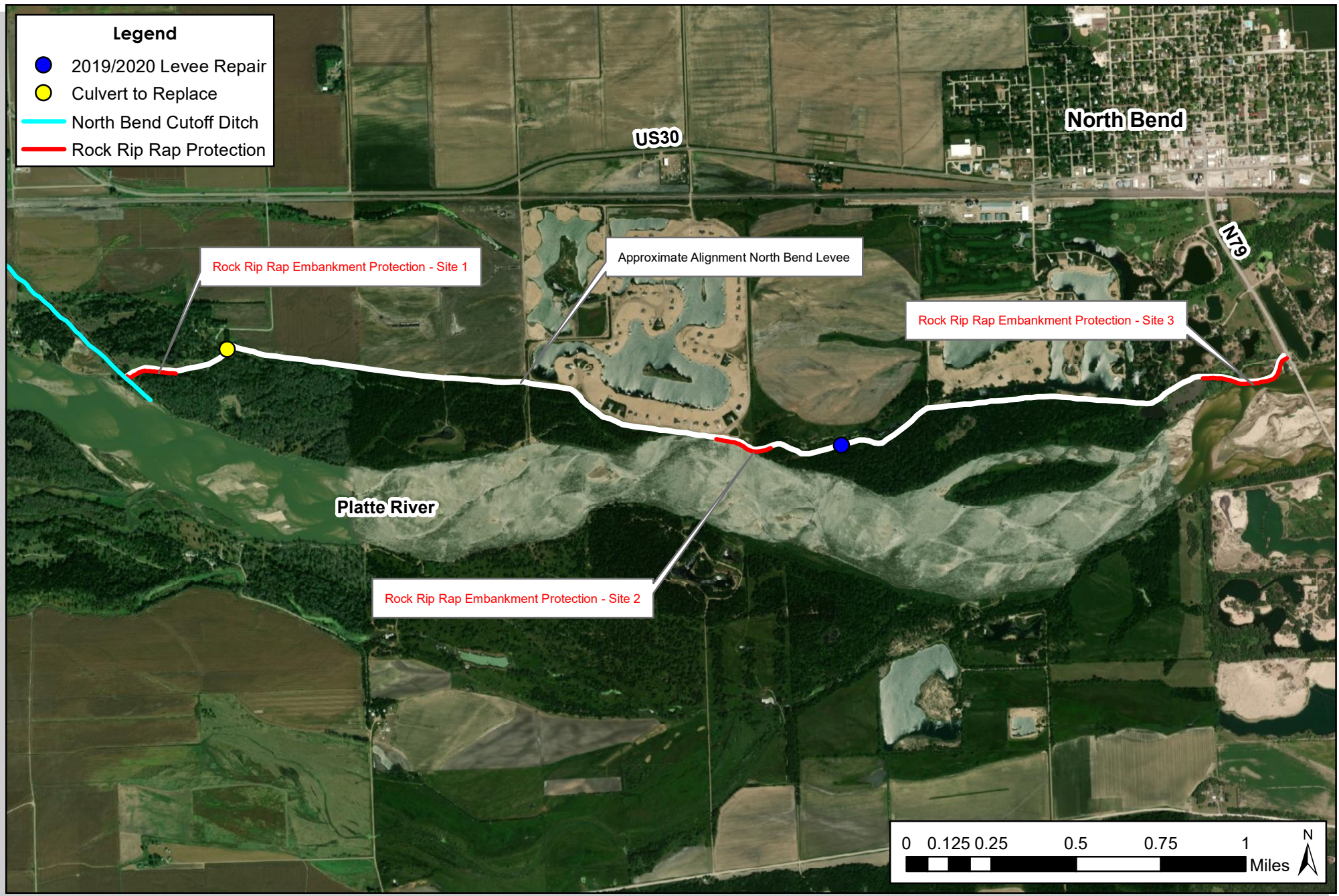
Date Prepared:
December 29, 2020



ESTIMATE OF QUANTITIES

Item #	Description	Unit	Quantity	Unit Price	Total
GROUP A - EMBANKMENT PROTECTION AT NB DRAINAGE DISTRICT TIE-IN (SITE 1)					
1.	Mobilization	LS	1	\$23,000.00	\$23,000
2.	Bonding and Insurance	LS	1	\$7,500.00	\$7,500
3.	Site Grading	CY	1,000	\$12.00	\$12,000
4.	Rock Riprap, NDOR Type C	TONS	3,000	\$90.00	\$270,000
5.	Clearing and Grubbing	LS	1	\$8,500.00	\$8,500
6.	Seeding, Fertilizer and Mulch	ACRE	3.5	\$5,000.00	\$17,500
Construction Subtotal Group A					\$338,500
Contingency 10%					\$33,850
Total Opinion of Construction Cost - Group A					\$372,350
Engineering Estimate 20%					\$74,470
Other Overhead (Legal, Fiscal, Etc) 10%					\$7,447
Total Opinion of Project Cost - Group A					\$454,267
GROUP B - CULVERT PIPE REPLACEMENT					
1.	Mobilization	LS	1	\$6,500.00	\$6,500
2.	Bonding and Insurance	LS	1	\$2,250.00	\$2,250
3.	Remove CMP Storm Sewer Pipe	LF	150	\$20.00	\$3,000
4.	42" RCP, Class III	LF	150	\$175.00	\$26,250
5.	42" Flap Gate (Spigot Mount)	EA	1	\$12,500.00	\$12,500
6.	Timber Pipe Support Structure	EA	1	\$6,500.00	\$6,500
7.	Site Grading	CY	1,000	\$12.00	\$12,000
8.	Rock Riprap, NDOR Type C	TONS	250	\$90.00	\$22,500
9.	Seeding, Fertilizer and Mulch	ACRE	1	\$5,000.00	\$5,000
Construction Subtotal Group B					\$96,500
Contingency 10%					\$9,650
Total Opinion of Construction Cost - Group B					\$106,150
Engineering Estimate 20%					\$21,230
Other Overhead (Legal, Fiscal, Etc) 10%					\$2,123
Total Opinion of Project Cost - Group A					\$129,503
GROUP C - EMBANKMENT PROTECTION AT RIVERVIEW (SITE 2)					
1.	Mobilization	LS	1	\$22,500.00	\$22,500
2.	Bonding and Insurance	LS	1	\$7,500.00	\$7,500
3.	Site Grading	CY	1,250	\$12.00	\$15,000
4.	Rock Riprap, NDOR Type C	TONS	3,000	\$90.00	\$270,000
5.	Clearing and Grubbing	LS	1	\$8,000.00	\$8,000
6.	Seeding, Fertilizer and Mulch	ACRE	2.0	\$5,000.00	\$10,000
Construction Subtotal Group C					\$333,000
Contingency 10%					\$33,300
Total Opinion of Construction Cost - Group C					\$366,300
Engineering Estimate 20%					\$73,260
Other Overhead (Legal, Fiscal, Etc) 10%					\$7,326
Total Opinion of Project Cost - Group A					\$446,886
GROUP D - EMBANKMENT PROTECTION AT HIGHWAY 15 BRIDGE (SITE 3)					
1.	Mobilization	LS	1	\$37,000.00	\$37,000
2.	Bonding and Insurance	LS	1	\$12,000.00	\$12,000
3.	Site Grading	CY	2,000	\$10.00	\$20,000
4.	Rock Riprap, NDOR Type C	TONS	5,000	\$90.00	\$450,000
5.	Clearing and Grubbing	LS	1	\$5,000.00	\$5,000
6.	Seeding, Fertilizer and Mulch	ACRE	4.0	\$5,000.00	\$20,000
Construction Subtotal Group D					\$544,000
Contingency 10%					\$54,400
Total Opinion of Construction Cost - Group D					\$598,400
Engineering Estimate 20%					\$119,680
Other Overhead (Legal, Fiscal, Etc) 10%					\$11,968
Total Opinion of Project Cost - Group D					\$730,048
Construction Subtotal - All Groups					\$1,312,000
Contingency					\$131,200
Engineering Estimate					\$288,640
Other Overhead (Legal, Fiscal, Etc)					\$28,864
Total Opinion of Project Cost					\$1,760,704

JEO Consulting Group Inc.'s (JEO) Opinions of Probable Cost provided for herein are to be made on the basis of JEO's experience and qualifications and represent JEO's best judgment. However, since JEO has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, JEO cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from Opinions of Probable Cost prepared by JEO.



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 Date: 12/29/2020
 Software: ArcGIS 10.7

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North Bend Levee Repair

North Bend, Nebraska



AGENDA

Lower Platte North NRD Area 2022 Local Working Group Meeting

*Lower Platte North
Lake Wanahoo Education Building
Located at 1655 County Road 16, East side of Lake Wanahoo
Wahoo, NE 68066
Thursday – February 18th, 2021 1:00 – 4:00*

1:00 Welcome & Introductions

- **NOTICE OF MEETING AND PURPOSE OF THE LOCAL WORK GROUP:**
- **Priority Resource Concerns**
 - **Suggestions on implementing conservation programs that would be most effectively used in the LPNNRD area.**
 - **Addressing Resource Concerns on the local level**
- **Fund pools - ranking and screening tools**
 - **Screening Tool (Priority Ranking System) - Ranking Tools**
 - **Review ranking process for FY2021 - CART**
- **Practice Payment Schedule Review**
- **Identify other local issues**
- **Preferred Application and Ranking cut-off date**