

Projects Committee Meeting
Thursday, September 1, 2022 7:30 AM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. UNFINISHED BUSINESS
2. SWCP
 - 2.A. SWCP Application Approvals
 - 2.B. SWCP Payments
 - 2.C. SWCP Cancellations
 - 2.D. Wahoo Creek Cost Share Approvals
3. WATERSHEDS
 - 3.A. Shell Creek
 - 3.A.1. Shell Creek Environmental Enhancement Plan Implementation
 - 3.A.1.a. Tom Sprunk Bank Stabilization/Wetlands Project
Grade stabilization structure project is complete. Total invoice for \$39,647.56 is attached. Landowner share of the total is 25%. We previously reimbursed Tom for \$6,500 of rock in order to close out the NET grant. Final reimbursement due to Tom is \$23,235.67.
 - 3.A.1.b. Shell Creek Grant Funding Update
NET grant is in progress and due October 6th.
Old 319 grant has wrapped up and final reports are underway.
New 319 PIP is being drafted.
On 8/18 NRD staff, NDEE, Colfax county, and SCWIG members met at Bailey's to discuss/plan next phase of implementation for Shell Creek. Of note: Bill Bos believes that the septic system upgrade will continue to be a big ticket. He also is planning a couple more grade stabilization projects.
 - 3.A.1.c. Shell Creek Septic System upgrade payment
 - 3.A.1.d. KE
VIN
WEEDER
 - 3.A.1.e. \$6,14
3.78
 - 3.B. Wahoo Creek Watershed
NRD staff, Olsson, and FYRA met with NeDNR on August 24th to discuss JEDI funding. We are jointly working on a memo to update and clarify funding detailed

in the NRCS Watershed Plan Environmental Assessment. We expect a funding agreement with NeDNR before the end of September.

3.B.1. Wahoo Creek Dam Site Planning Update & FYRA Invoices

3.B.2. Wahoo Creek Watershed Water Quality Plan Phase II

3.B.3. Olsson Design Update and Invoice

Attached is Olsson's progress report and current invoice's for work completed on the Wahoo Creek Watershed design.

On 8/17, Chapman and Elliott met with Olsson's to update and plan for the mitigation portion that is required through the ACOE permitting process. The stream and wetland mitigation is planned to be completed during dam construction and will be included during the land rites process.

Total stream length needed to be mitigated for entire Watershed Plan is around 15,000 feet. Actual length will be finalized depending on site locations.

4. JOINT WATER MANAGEMENT ADVISORY BOARD

On 8/29, Chapman and Elliott, along with Directors: Pollard, Thompson, Olson, and Saeger attended a JWMA B meeting that covered three different watershed plans:

- West Fremont/Platte Township BRIC NEMA kickoff - representatives from NEMA/FEMA were present to explain the plan development process and timelines.
- East Fremont/Elkhorn Township FEMA Advanced Assistance - JEO presented to the group two options

4.A. East Fremont/Elkhorn Township FEMA Advanced Assistance

On 8/29 JEO presented to the JWMA B on the current status of the E.

Fremont/Elkhorn Township Phase 1 Alternatives study. The two best alternatives that JEO has concluded will reduce flooding in the southeast section of Fremont, but only one alternative would address rural flooding east to the Elkhorn river. Attached is JEO's breakdown of the two alternatives.

Alternative 1 - ditch widening to the Elkhorn river (attachment 2). JEO estimated total project cost \$91 million.

Alternative 2 - ditch widening with detention pond. JEO estimated total project cost \$55 million.

FEMA Advanced Assistance Grant requirements require that all contributing partners send a letter of financial commitment to continue with the process. This letter will be due in the near future.

The expected federal cost share is 75%, which means that the LPNNRD, Dodge County, and Fremont will have to share the remaining 25%. According to current plan the local 25% share could be \$11 million to \$30 million depending on which alternative is pursued. Local cost share is eligible for state funding (NET, WSF e.g.) to account for local entity portion.

4.B. Rawhide Creek Watershed WFPO study

On 8/29 JEO presented to JWMA B on the current status of the Rawhide Creek

Watershed (NRCS funded) WFPO study. The study covers an area from Schuyler to west Fremont (attachment).

JEO covered the complexities of Platte river influence on the Rawhide watershed and how the river would affect alternative choice. They covered multiple alternatives from west of Fremont to west of North Bend.

Potential alternatives include: Fremont Cut-off road raise, Rawhide creek berms, detention cells.

Alternative cost estimates range from \$5 million to \$200 million.

JEO plans to meet with NRCS next month to deliver plan alternatives. They will need confirmation from partnering entities to continue with planning effort.

4.C. West Fremont/Platte Township FEMA BRIC Kickoff

On 8/29 FEMA/NEMA representatives presented to JWMAB, and JEO, for the West Fremont/Platte Township BRIC study kickoff. JWMAB members were made aware of BRIC program deliverables and timelines.

This study will be similar in scope and scale as other area watershed studies.

FEMA will cover costs of study.

Dodge county is the lead agency on this project for JWMAB.

4.D. North Bend Drainage Ditch FEMA repair.

JWMAB has been informed that the request to include upgrades to North Bend levee will not be allowed within the approved scope of repair under FEMA. See attached letter.

Tom Smith informed JWMAB at 8/29 meeting that the plan was to move ahead with planned repairs of North Bend drainage ditch.

5. HAZARD MITIGATION PLAN UPDATE

Hazard Mitigation Plan RFP was sent to area firms, posted on our website, and posted on the American Planning Association's website. RFPs are due October 26th. Staff plan to meet with the three county emergency managers prior to the November 3rd Committee Meeting. It is expected that a recommendation to hire a firm will be made at the November 3rd Committee Meeting for Board decision on November 14th.

6. EROSION AND SEDIMENT RULES AND REGULATIONS

7. OTHER

For discussion is a request from Village of Lindsay for NRD to provide cost-share assistance for the pond rehabilitation project, up to \$50,000 attached.

8. ADJOURNMENT

Wemhoff Construction

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

Date	6/27/2022
Invoice #	2545

Sprunk Tom
9680 63 Ave
Columbus, NE 68601

Date	Description	Rate	Amount
6/27/2022	Job materials(rip rap).	6,500.00	6,500.00
1.5% per month interest will be added after 30 days from invoice date.			Total \$6,500.00

Thank You

Stankoski Dozing and Excavating

24951 370th Ave
Monroe, NE 68647
402-948-0199



Stankoski
Dozing and Excavating

INVOICE

BILL TO

Tom Sprunk
9680 63rd Ave
Columbus, NE 68601

INVOICE # 1126

DATE 07/21/2022

DUE DATE 08/20/2022

TERMS Net 30

DATE	ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
07/01/2022	Gravel per yard	\$12 per ton + \$4 per mile	83	23.00	1,909.00
07/01/2022	Rock	522 tons/386 yd3			24,269.86
07/01/2022	GeoTextile				727.95
07/01/2022	GeoTextile shipping				100.00
07/01/2022	skidsteer		13.25	75.00	993.75
07/01/2022	Loader 980				3,727.00
07/14/2022	Excavator	NRCS rock chute	41.25	165.00	6,806.25
07/14/2022	Dozer	NRCS rock chute	6.75	165.00	1,113.75

Thank you for doing business with us!

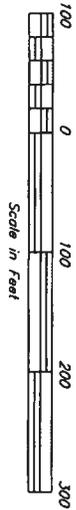
BALANCE DUE

\$39,647.56

*SEED & SEEDING COMPLETED BY
LANDOWNER*



PLAN VIEW



As-Built Plans

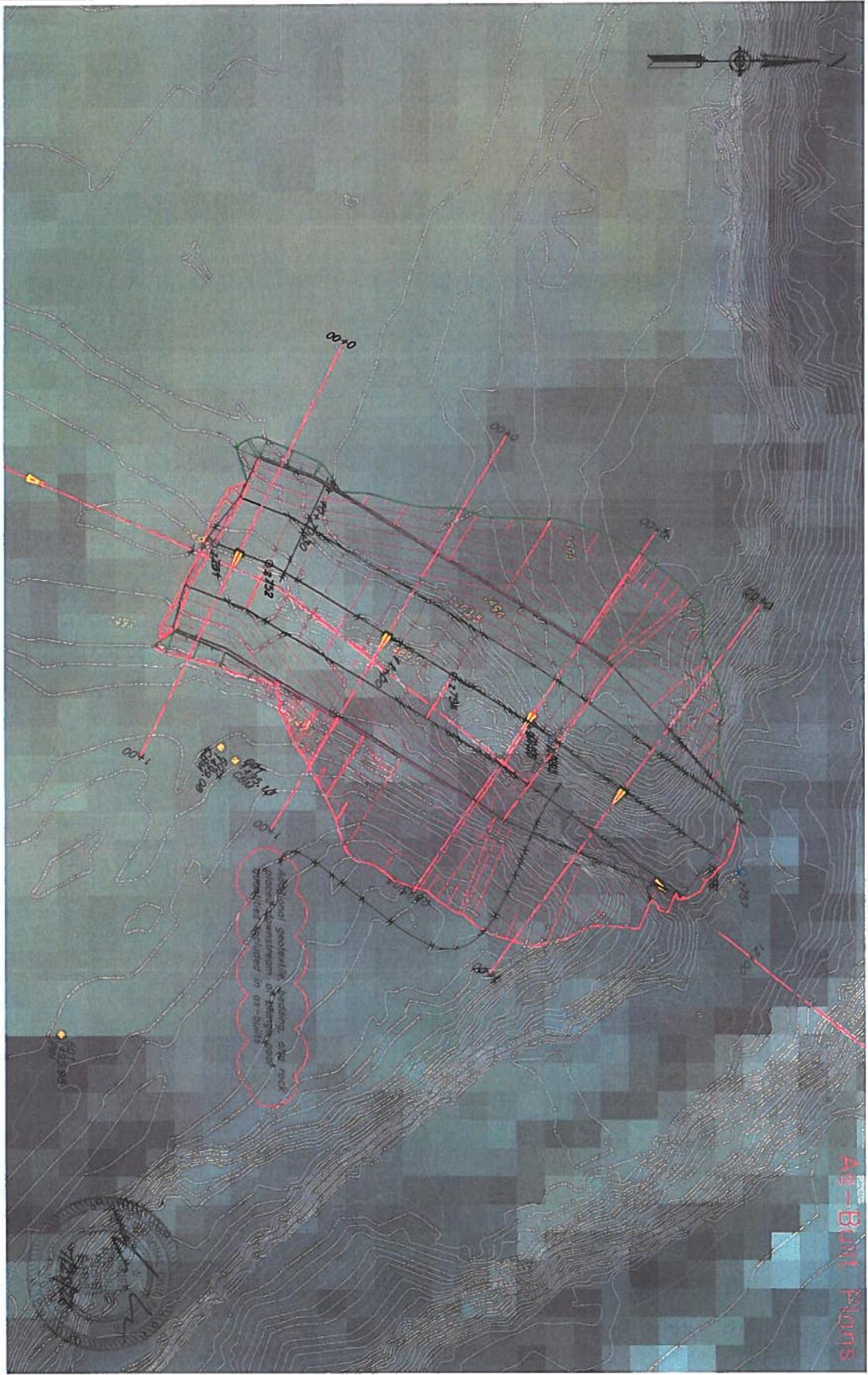
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 Sheet 3 of 6



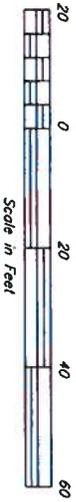
TOM SPRUNK
410 GRADE STABILIZATION STRUCTURE
 PLAN VIEW
 SE 1/4, Sec. 22, T18N, R1W

Designed	<u>MH</u>	Date	<u>6/21</u>
Drawn	<u>JTS</u>		<u>11/21</u>
Checked	<u>BB</u>		<u>2/22</u>
Approved	<u>JTS</u>		<u>5/22</u>

PLATTE County, NE



PLAN VIEW



AS-BUILT PLANS

File No.
 Drawing No.
 7/25/22 11:05 AM
 Sheet 4 of 6



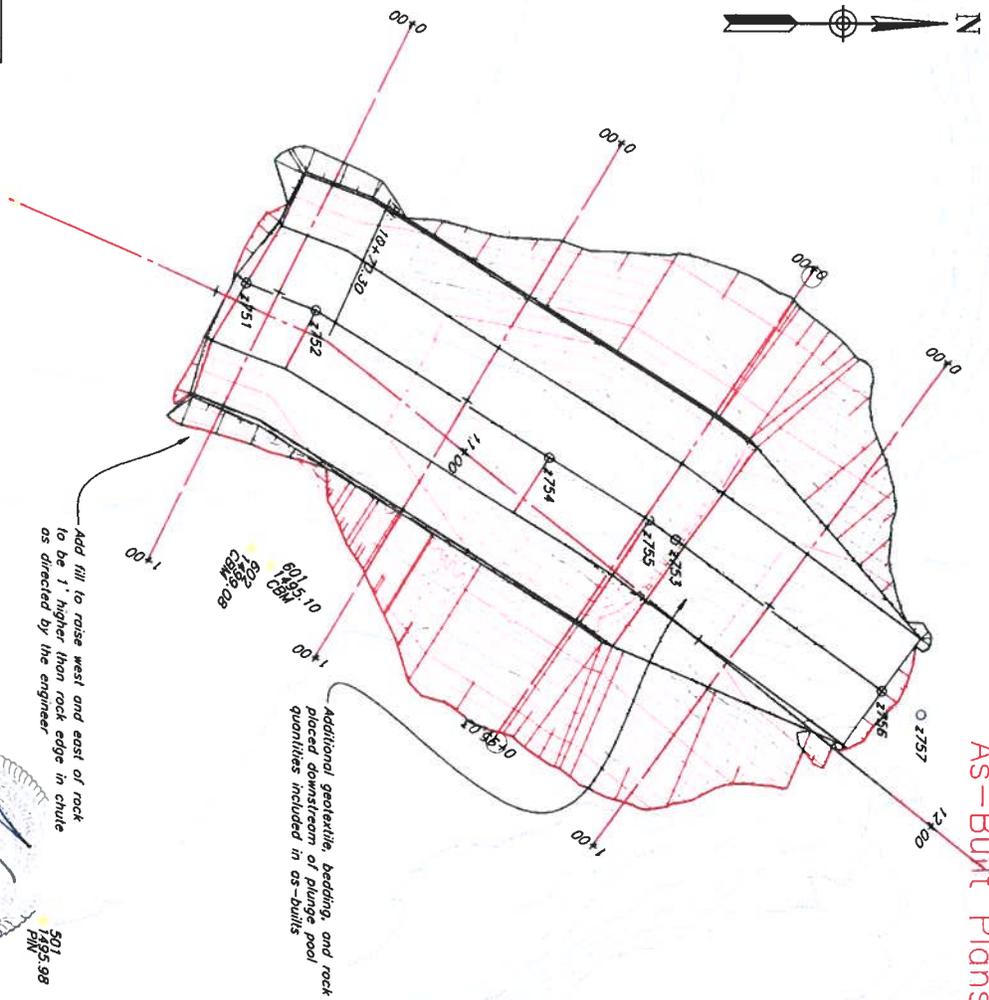
410 GRADE TOM SPRUNK STABILIZATION STRUCTURE
 PLAN VIEW SHELL CREEK
 SE 1/4, Sec. 22, T18N, R1W PLATTE County, NE

Designed	MH	Date	6/21
Drawn	JTS		11/21
Checked	BB		2/22
Approved	JTS		5/22

Point Table				
Pt. Name	Northing	Eastng	Elevation	Description
2751	15081393.08	2075551.20	1491.00	CL Rocktop
2752	15081404.65	2075555.64	1491.00	CL Rocktop
2753	15081464.97	2075593.91	1486.00	CL Rocktop
2754	15081443.75	2075580.11	1484.00	CL Rocktop
2755	15081460.45	2075590.63	1484.00	CL Rocktop
2756	15081499.54	2075619.02	1483.00	CL
2757	15081506.12	2075622.93	1482.00	CL

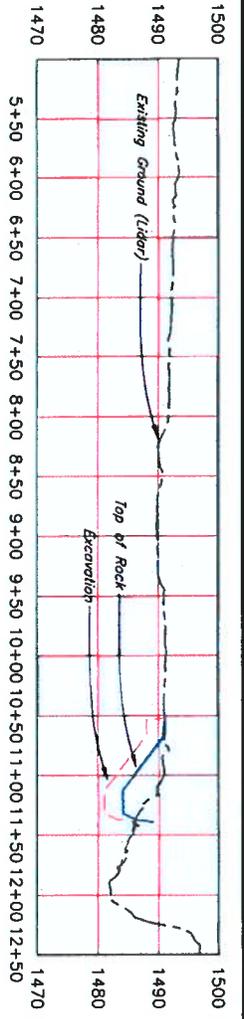
SURVEY METADATA	
UTM ZONE	14N
DATE	MAR 3 (2011)
COORD	20184U02
UNITS	US SURVEY FEET

Existing Survey Points Table					
Pt. Name	Northing	Eastng	Elevation	Description	Comments
501	15081359.86	2075657.71	1495.98	PW	5/8" Rodor 100' SE CL in Fenceline
601	15081397.30	2075598.30	1495.10	CBM	Wood Hub 40' East of CL
602	15081394.19	2075595.46	1499.08	CBM	Top center of Fence Post

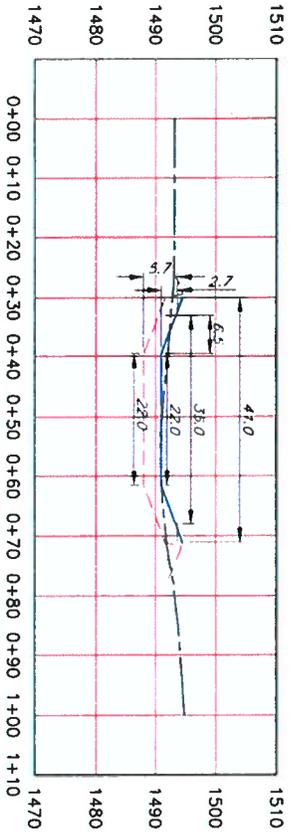


	TOM SPRUNK 410 GRADE STABILIZATION STRUCTURE CONSTRUCTION LAYOUT	Designed <u>MH</u> Drawn <u>JTS</u> Checked <u>BB</u> Approved <u>JTS</u>	Date 6/21 11/21 2/22 5/22	
	SE 1/4, Sec. 22, T18N, R1W PLATTE County, NE	File No. _____ Drawing No. _____ 7/23/22 11:05 AM Sheet 6 of 6		

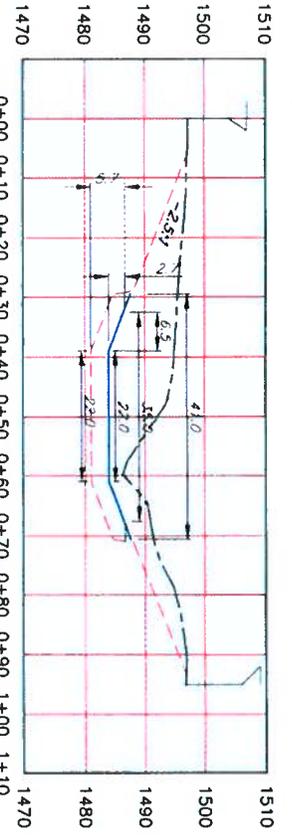
As-Built Plans



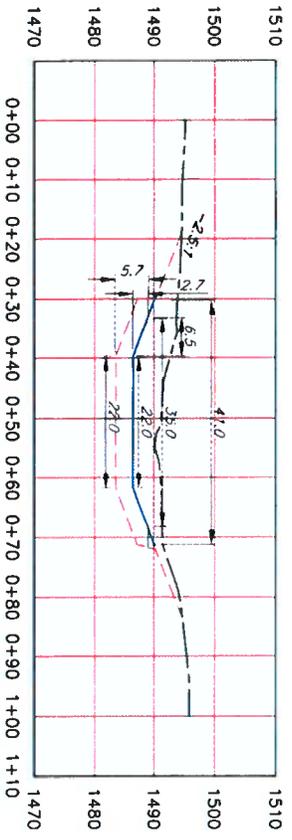
CL Ditch PROFILE



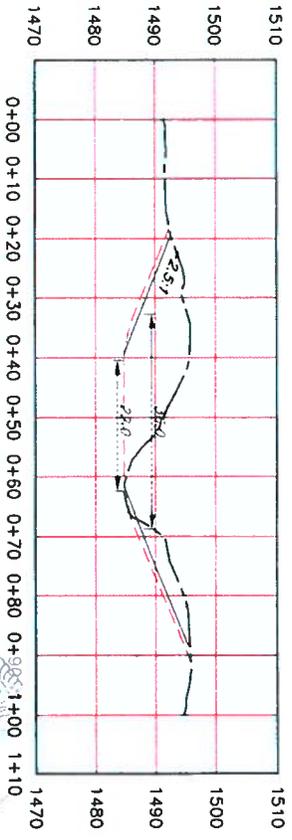
Rock Chute Top PROFILE



Tree Cross Section PROFILE



Rock Chute Middle Slope PROFILE



Rock Chute Downstream PROFILE

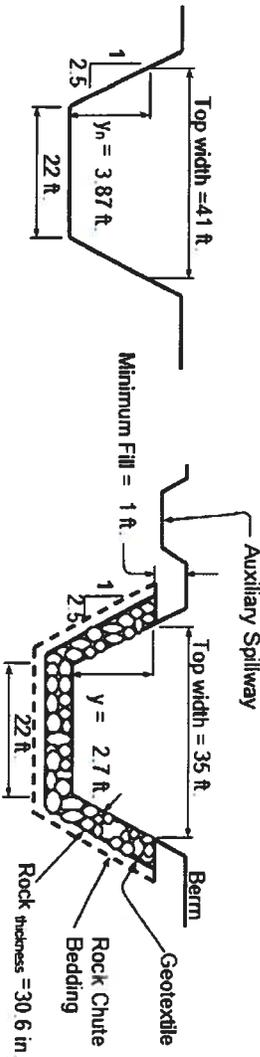
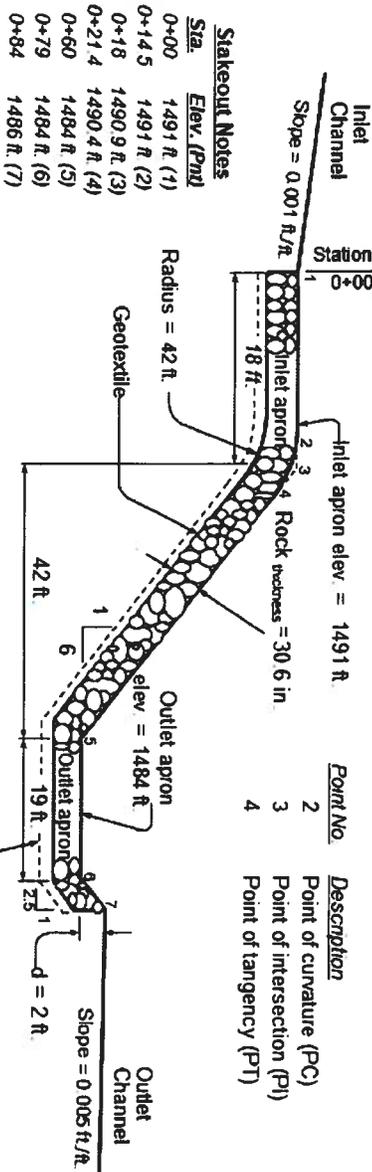


<p>United States Department of Agriculture Natural Resources Conservation Service</p>	<p>TOM SPRUNK 410 GRADE STABILIZATION STRUCTURE PROFILE OF PRINCIPAL SPILLWAY</p>		<p>Designed <i>MH</i></p>	<p>Date <i>6/21</i></p>
	<p>SE 1/4, Sec. 22, T18N, R1W</p>		<p>Drawn <i>JTS</i></p>	<p><i>11/21</i></p>
	<p>PLATTE County, NE</p>		<p>Checked <i>BB</i></p>	<p><i>2/22</i></p>
	<p>7/25/22 11:05 AM</p>		<p>Approved <i>JTS</i></p>	<p><i>5/22</i></p>
	<p>Sheet 5 of 6</p>			

ESTIMATED TABLE OF QUANTITIES			
ITEM	UNIT	QUANTITY	AS-BUILT
Modification	1	Lump Sum	
Site Preparation & Structure Removal	1	Lump Sum	
Excavation	CY	-	
Foundation/Structure Excavation	CY	2,000	
Earthfill*	CY	260	
Embankment/Stripure Backfill	CY	500	
Crushed Rock, Type 1**	CY	84	93
Rock Rip Rap, DOT Type B	CY	353	373
Non-Woven Geotextile, Class III	SY	484	539
Critical Area Seeding	AC	2.0	

HYDROLOGIC DATA		
Drainage Area	282	Acres
Watershed Slope	2.5	Percent
Time of Concentration	1.14	Hours
Runoff Curve Number	80	
STORM DATA		
Storm Frequency, Years	10	
Rainfall Distribution, Type	MS-E3	
Rainfall Duration, Hours	24	
Rainfall, Inches	4.17	
Runoff, Inches	2.18	
Peak Discharge, cfs	333	
Structure Capacity, cfs	333	

* Earthfill Quantities are In-place neat-line (1:1 compaction, method spec)
 ** As-Built, Outlet Channel was extended 12.0 feet for stability, and Non-Woven Geotextile, Class III 55 SY, JTS



- GENERAL NOTES**
1. If cultural resources are discovered during construction, discontinue construction and notify the local Natural Resources Conservation Service office.
 2. The landowner is responsible for complying with all federal, state, and local laws.

- CONSTRUCTION NOTES**
1. Clearing areas, clearing and grubbing areas, and construction work limits are generally bounded by the toes of the embankment, and excavation areas as shown on the drawings. Exact locations of the work limits will be staked by the MRCS before construction begins.
 2. Trees within the work limits will be disposed of in the direction of the owner. Exact limits of the tree disposal area will be staked by the MRCS and the owner at the time of construction.
 3. Excavated material not suitable for earthfill will be spread and shaped to blend into the landscape in an area suitable to the owner while also being a topsoil preservation area. Exact limits of the waste disposal area will be staked by the MRCS at the time of construction.
 4. Waste materials (concrete rubble, etc.) will be buried. Exact limits of waste material burial/disposal areas will be staked by MRCS at the time of construction.
 5. Fences and other structures within the work limits will be removed by others before construction begins.
 6. Any shale, gravel, or sand that is exposed during excavation operations shall be immediately backfilled with 2 feet of clay material.
 7. All surfaces beneath earthfill and borrow areas will be stripped to a depth of 6 inches minimum.
 8. Strippings will be stockpiled and used as topsoil on finished embankment and borrow areas surfaces. Topsoiling shall be to a minimum depth of 6 inches and shall be to final neat line grades.
 9. The MRCS inspector will approve the foundation excavation and stripping limits prior to backfill/earthfill operations.
 10. Placement of the drop structure will occur with the MRCS inspector present.
 11. All areas top-dressed with topsoil and disturbed during construction will be seeded according to Construction Specification NE-6.
 12. Riprap shall consist of well-graded rock, MDT Type "B", D50 - 8" - 10", maximum size of 4", maximum size of 1.5", riprap shall be underlain by nonwoven geotextile bedding. Geotextile shall overlap a minimum of 18".
 13. Bedding shall be gravel or crushed rock.
 14. Refer to MRCS Rock Chute design spreadsheets, "Rock-Chute.xls" for quantities and elevations.



IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE A LOCATE REQUEST WITH THE NEBRASKA ONE-CALL SYSTEM AT LEAST 2 FULL BUSINESS DAYS (BUT NO MORE THAN 10 DAYS) BEFORE CONSTRUCTION. CONTACT NE1CALL.COM, 811, OR 1-800-331-5666.

As-Built Plans

Sprunk Site #2 ROCK CHUTE SPILLWAY STRUCTURE Shell Creek Watershed Platte County, NE



Construction Completion Date: 7/13/2022
 Inspectors: Bill Bos, Mark Hoferer, James Sueper
 Contractor: Jim Wemhoff Construction, Platte Center, NE
 Derek Stankoski Dozing and Excavating, Monroe

SPONSORED BY: LOWER PLATTE NORTH NATURAL RESOURCE DISTRICT
 DESIGNED BY: NATURAL RESOURCES CONSERVATION SERVICE
 COLUMBUS, NEBRASKA

THIS PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THESE APPROVED AS-BUILT PLANS AND SPECIFICATIONS, AND IN ACCORDANCE WITH APPLICABLE NRCS CONSERVATION PRACTICE STANDARDS

SIGNATURE _____ DATE 7-13-22



NE CONSTRUCTION AND MATERIAL SPECIFICATIONS

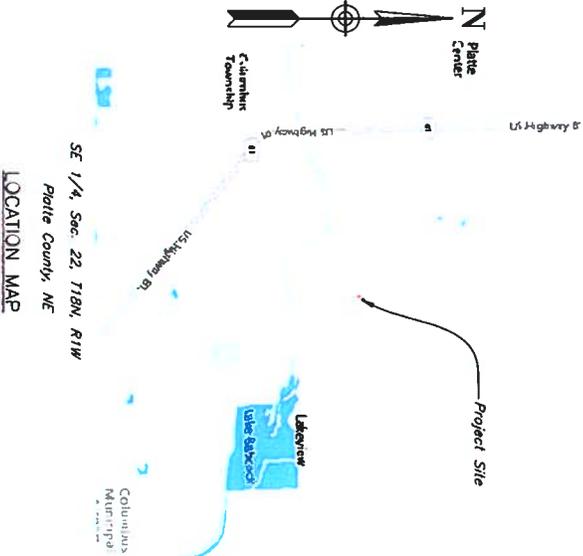
- NE-1 Site Preparation & Structure Removal
- NE-6 Seeding & Mulching for Protective Cover
- NE-10 Water Applied
- NE-11 Removal of Water
- NE-21 Excavation
- NE-23 Earth Fill
- NE-61 Loose Rock Riprap
- NE-95 Geotextile

SHEET INDEX

1. Cover Sheet
2. Design Data
3. Plan View
4. Plan View Shell Creek
5. Profile
6. Construction Layout

NE POND WITH PRINCIPAL SPILLWAY PIPE
 REV. 06/2018

SE 1/4, Sec. 22, T18N, R1W
 Platte County, NE
LOCATION MAP



SPECIFICATIONS AND DRAWINGS APPROVED FOR CONSTRUCTION

Signature: _____
 APPROVED BY: _____

Civil Engineer
 TITLE

NRCS JOB CLASS IV

File No. _____
 Drawing No. _____
 7/23/22 11:05 AM
 Sheet 1 of 6



TOM SPRUNK
410 GRADE STABILIZATION STRUCTURE
 COVER SHEET

SE 1/4, Sec. 22, T18N, R1W

PLATTE County, NE

Designed	MH	Date	6/21
Drawn	JTS		11/21
Checked	BB		2/22
Approved	JTS		5/22

Progress Report for Wahoo Creek Watershed Dams Sites



Lower Platte North NRD

For Work Completed During The Month Of : July, 2022
(through 8/6/22)

Project # 018-3423 Dam Site 26A, 26B, &27 Project Phase	Phase Budget	Billings for Month		Project Total Billings to Date	
		Current Earned/Billings	% Completed This Month	JTD Earned/Billings	% Completed Overall
010 - Project Management/Meetings	\$ 23,213	\$ 241.16	1.0%	\$ 9,381.41	40.4%
020 - Geotechnical Engineering	\$ 224,493		0.0%	\$ 204,239.05	91.0%
030 - Dam Design	\$ 184,885	\$ 9,212.63	5.0%	\$ 125,377.26	67.8%
040 - Permitting	\$ 86,634		0.0%	\$ 36,952.49	42.7%
050 - Survey and Legal Descriptions	\$ 11,142	\$ 71.15	0.6%	\$ 15,863.08	142.4%
060 - Community/Public Participation	\$ -			\$ -	
070 - Construction Services	\$ 171,962			\$ 1,590.75	
				\$ -	
3 Sites Totals	\$ 702,329	\$ 9,524.94	1.4%	\$ 393,404.04	56.0%

Project # A18-3423 (separate invoice) Sites 55, 66, 77, 82, 84, 85, &86 Project Phase	Phase Totals	Billings for Month		Project Total Billings to Date	
		Current Earned/Billings	% Completed This Month	JTD Earned/Billings	% Completed Overall
100 - Project Management/Meetings	\$ 60,813	\$ 2,954.21	4.9%	\$ 17,421.91	28.6%
110 - Geotechnical Engineering	\$ 592,047	\$ 15,767.74	2.7%	\$ 308,758.58	52.2%
120 - Dam Design	\$ 425,202		0.0%	\$ 33,383.52	7.9%
130 - Permitting	\$ 244,810		0.0%	\$ 34,090.07	13.9%
140 - Survey and Legal Descriptions	\$ 28,165	\$ 85.97	0.3%	\$ 7,272.61	25.8%
150 - Community/Public Participation	\$ 30,000		0.0%	\$ 6,135.91	20.5%
160 - Other	\$ -			\$ -	
170- Construction Services	\$ 603,992			\$ -	
7 Sites Totals	\$ 1,985,029	\$ 18,807.92	0.9%	\$ 407,062.60	20.5%

Billings For Month	\$ 28,332.86
Total Billings To Date	\$ 800,466.64
Project Budget	\$ 2,687,358
Budget Remaining	\$ 1,886,891.36

% Budget Spent Per Site



Summary Of Work Completed This Month	
Sites 26A, 26B, & 27	Sites 55,66,77,82,84,85, & 86
-Finish 60% design, plans, specs, and design report -Finalize geotechnical report for NRCS review -Finalized structural calculations for 60% plan submittal	-Continued laboratory testing on recovered soil samples -Geotechnical calculations for dam design (Sites 55 & 84) -Environmental: Submitted mitigation reports to USACE for review

Planned Work For Next Month	
Site 26A, 26B, & 27	Sites 55, 66, 77, 82, 84, 85, & 86
-Limited work as NRCS completed 60% design review	-Begin H&H design for dam centerline and spillways -Meeting with USACE to discuss permitting and permit requirements -Geotechnical calculations for dam design

For questions regarding billings, please contact Andrew Phillips at (402) 440-8807 or aphillips@olsson.com

Invoice



601 P St Suite 200
 PO Box 84608
 Lincoln, NE 68501-4608
 Tel 402.474.6311, Fax 402.474.5063

August 24, 2022
 Invoice No: 431316

Tom Mountford
 Assistant Manager
 Lower Platte North NRD
 PO Box 126
 Wahoo, NE 68066-0126

Invoice Total \$18,807.92

Olsson Project # A18-34230 Lower Platte North NRD Wahoo Creek Watershed & 7 Dam Sites
 Phase II
 Professional services rendered July 10, 2022 through August 6, 2022 for work completed in accordance with agreement.

 Phase 100 Sites 55 66 77 82 83 84 85 86 Project Management

Labor			
		Hours	Amount
Principal		12.25	2,954.21
	Totals	12.25	2,954.21
	Total Labor		2,954.21
Billing Limits			
		Current	Prior
Total Billings		2,954.21	14,112.63
Limit			62,400.00
Balance Remaining			45,333.16
		Total this Phase	
			\$2,954.21

 Phase 110 Geotechnical Engineering

Labor			
		Hours	Amount
Assistant Engineer		12.00	1,085.64
Technician		13.00	839.19
Principal		3.25	559.16
Project Professional		33.00	4,429.59
Assistant Professional		.50	74.16
	Totals	61.75	6,987.74
	Total Labor		6,987.74

Unit Billing

Atterberg Limit	
7 Tests @ \$95/Test	665.00
2 Tests @ \$95/Test	190.00
3 Tests @ \$95/Test	285.00
1 Test @ \$95/Test	95.00

Dry Density Test					
	5 Tests @ \$30/Test			150.00	
	2 Tests @ \$30/Test			60.00	
	1 Test @ \$30/Test			30.00	
Mech. Grain Size Analysis (Hydrometer)					
	2 Tests @ \$165/Test			330.00	
	1 Test @ \$165/Test			165.00	
Mechanical Grain Size Analysis (Sieves)					
	1 Test @ \$90/Test			90.00	
One-Dimensional Consolidation Test					
	1 Test @ \$165/Test			165.00	
	3 Tests @ \$165/Test			495.00	
	1 Test @ \$165/Test			165.00	
P-200 Sieve Test					
	1 Test @ \$45/Test			45.00	
Permeability of Soil - Undisturbed					
	1 Test @ \$200/Test			200.00	
	1 Test @ \$200/Test			200.00	
Standard Proctor					
	2 Tests @ \$170/Test			340.00	
	1 Test @ \$170/Test			170.00	
Triaxial Comp Cons Undrained-Intact					
	1 Test @ \$1925/Test			1,925.00	
Triaxial Comp Cons Undrained-Remold					
	1 Test @ \$2,400/Test			2,400.00	
Triaxial Comp Unconsolidated Undrained					
	2 Tests @ \$175/Test			350.00	
	1 Test @ \$175/Test			175.00	
Unconfined Compression Test					
	2 Tests @ \$45/Test			90.00	
	Total Units			8,780.00	8,780.00

Billing Limits	Current	Prior	To-Date	
Total Billings	15,767.74	275,147.14	290,914.88	
Limit			607,460.00	
Balance Remaining			316,545.12	
		Total this Phase		\$15,767.74

Phase	140	Survey & Legal Descriptions
Labor		
		Hours
		Amount
Team Leader		.50
		85.97
Totals		.50
		85.97
Total Labor		85.97

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

Billing Limits

	Current	Prior	To-Date
Total Billings	85.97	6,928.74	7,014.71
Limit			28,875.00
Balance Remaining			21,860.29

Total this Phase **\$85.97**

AMOUNT DUE THIS INVOICE **\$18,807.92**

Outstanding Invoices

Number	Date	Balance
426477	7/20/2022	17,724.70
Total		17,724.70

Authorized By: Andrew Phillips

Invoice



601 P St Suite 200
PO Box 84608
Lincoln, NE 68501-4608
Tel 402.474.6311, Fax 402.474.5063

August 15, 2022
Invoice No: 429217

Tom Mountford
Assistant Manager
Lower Platte North NRD
PO Box 126
Wahoo, NE 68066-0126

Invoice Total \$9,524.94

Olsson Project # 018-34230 Lower Platte North NRD Wahoo Creek Watershed & 3 Dam Sites
Professional services rendered July 10, 2022 through August 6, 2022 for work completed in accordance with agreement.

Phase	010	Sites 26A 26B & 27 Project Management		
Labor				
			Hours	Amount
Principal			1.00	241.16
	Totals		1.00	241.16
	Total Labor			241.16
		Total this Phase		\$241.16

Phase	030	Dam Design 26a, 26b, 27		
Labor				
			Hours	Amount
Principal			1.00	163.15
Assistant Professional			40.50	4,435.00
Designer			28.75	3,397.10
CAD Operator			21.50	1,217.38
	Totals		91.75	9,212.63
	Total Labor			9,212.63
		Total this Phase		\$9,212.63

Phase	050	Survey & Legal Descriptions		
Labor				
			Hours	Amount
Survey			.75	71.15
	Totals		.75	71.15
	Total Labor			71.15
		Total this Phase		\$71.15

INVOICE PAYMENT IS REQUESTED WITHIN 30 DAYS

Billing Limits

	Current	Prior	To-Date
Total Billings	9,524.94	383,879.10	393,404.04
Limit			583,825.00
Balance Remaining			190,420.96

AMOUNT DUE THIS INVOICE \$9,524.94

Outstanding Invoices

Number	Date	Balance
426452	7/19/2022	26,023.09
Total		26,023.09

Email invoice to tmountford@lpnrd.org

Authorized By: Andrew Phillips

- c. Community Engagement (Tailored to selection of preferred alternative)
 - i. Public meetings
 - ii. One-on-One meetings with landowners
- d. NDOT/UPRR Coordination

	Original Project - Ditch Widening to Elkhorn River	Alternate Project - Detention Pond
Approximate Benefits		
Structural Benefits	\$65,000,000 - \$75,000,000	\$65,000,000 - \$75,000,000
Social Benefits	\$1,500,000 - \$2,000,000	\$1,500,000 - \$2,000,000
Environmental Benefits	\$2,000,000 - \$5,000,000	\$2,000,000 - \$7,500,000
Total Estimated Benefits (To date)	\$70,000,000 - \$85,000,000	\$70,000,000 - \$85,000,000
Approximate Costs (Conceptual/Planning level)	\$91,000,000	\$55,000,000
Approximate BCA (Structural/Social/Env Benefits)	0.70 - 0.95	1.27 - 1.55
Approximate Local Share (assuming FEMA or other federal funding)	\$20,000,000 - \$30,000,000	\$11,000,000 to \$17,000,000
Urban Flood Reductions	~300 urban properties for 5-year event	~300 urban properties for 5-year event
Rural Flood Reductions (East of Highway 275)	Approx. 419 acres removed	Approx 105 acres removed
Rural Property Impacts (East of Highway 275)	23 parcels, 19 owners (Significant impact to 2 homes)	3 parcels, 2 owners (Full acquisition of 121 acres)
County Road Bridge Replacements (East of Highway 275)	Removal and Replacement of 4 Bridges	Existing Bridges Used in Place
Home/Field Driveways (East of Highway 275)	~12 New Bridges	Existing Drives Used in Place
Impacts to cooling wells for Fremont Power Plant	Pump House and/or pipe may need modification	Existing Infrastructure Used in Place
Regulatory/Permitting Impacts	Will require an Individual Permit from the USACE	Will require an Individual Permit from the USACE

* Benefits, Costs and Local Share Funding are all calculated at 2022 dollars.

SCE

Legend

- City Boundaries
- Risk Areas

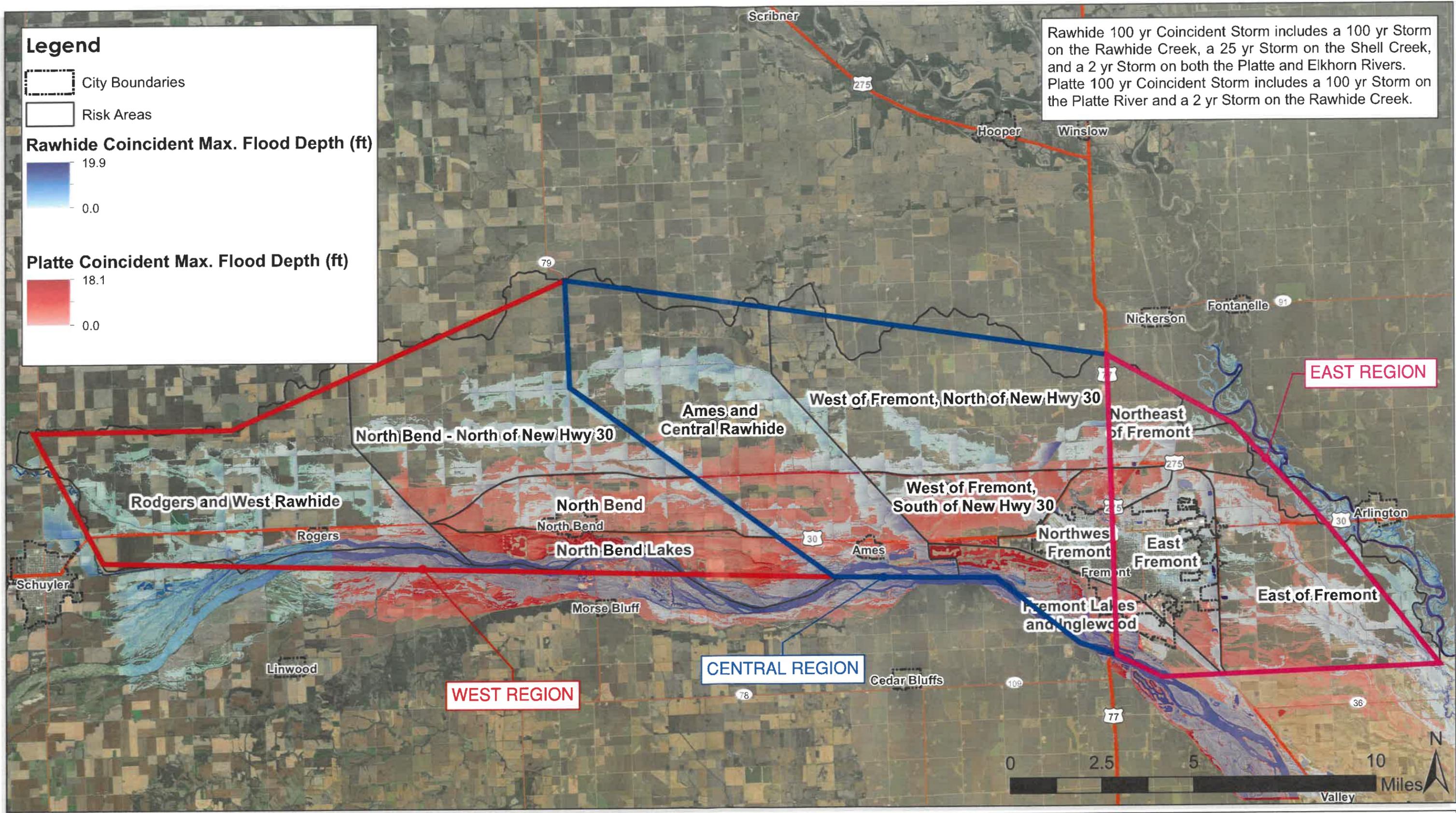
Rawhide Coincident Max. Flood Depth (ft)

19.9
0.0

Platte Coincident Max. Flood Depth (ft)

18.1
0.0

Rawhide 100 yr Coincident Storm includes a 100 yr Storm on the Rawhide Creek, a 25 yr Storm on the Shell Creek, and a 2 yr Storm on both the Platte and Elkhorn Rivers.
 Platte 100 yr Coincident Storm includes a 100 yr Storm on the Platte River and a 2 yr Storm on the Rawhide Creek.



Created By: CEO
 Date: 8/25/2022
 Software: ArcGIS 10.8.1

Rawhide Creek Watershed Risk Areas

Rawhide Creek WFPO

DRAFT



This map was prepared using information from record drawings supplied by JEO and/or other applicable city, county, federal, or public or private entities. JEO does not guarantee the accuracy of this map or the information used to prepare this map. This is not a scaled plat.



Rete Ricketts, Governor

Good Life. Great Strength.

July 12, 2022

Pat Tawney, District 4 Supervisor
Dodge County Board of Supervisors
435 N Park Ave
Fremont, Nebraska 68025

RE: HMGP Project DR-4420-NE-0034 North Bend Cutoff Ditch Proposed Project Expansion

Dear Mr. Tawney,

On May 18, 2022, NEMA's Hazard Mitigation Team received your letter requesting NEMA consider enhancing sections of the existing levee and adding that into HMGP Project DR-4420-NE-0034. Following receipt of this request, NEMA scheduled a meeting with NeDNR to discuss the request and the feasibility Technical Memorandum. NeDNR's Floodplain Management Section Engineers are the subject matter experts when it comes to floodplains. During that conversation with NeDNR, a suggestion was made that NEMA should also recommended to reach out to NeDOT due to the newly constructed Highway 30. As a result of these conversations, each state entity's concerns and stance is outlined below:

NEMA:

- The deadline for grant completion is September 30, 2023. If significant changes are made to the scope at this point, there are concerns that the original purpose of the project (Phase 1) will not be achieved.
- At this time, the consideration is not included in the project scope of work. Modifying the scope of work to include this will require FEMA to review the following: eligibility, environmental and historic preservation, budget amendment, and benefit-cost analysis. These reviews can take months to several years to complete.

NeDNR:

- There will be upstream and downstream impacts to base flood elevations and to the regulatory floodplain boundary. These changes require a Conditional Letter of Map Revision (pre-construction), which would not fit within the grant timeframe. A Letter of Map Revision would be required within 6 months of construction completion.
- The existing berms are not engineered for flood protection and significant design and modification would have to occur to meet FEMA levee requirements (as described in CFR 65.10).

Daryl Bohac, Director

Nebraska Emergency Management Agency

2433 NW. 24th Street **OFFICE** 402-471-7421 **FAX** 402-471-7433

Lincoln, Nebraska 68524

- Without meeting FEMA levee requirements, the berms cannot not be reflected on a Flood Insurance Rate Map. Therefore, property owners within the current effective Special Flood Hazard Area would still be required to carry flood insurance.
- Property owners could potentially have a false sense of security, which would be detrimental if a berm fails in a flood event.

NeDOT:

- Impacts to NeDOT's Highway 30 expressway overtopping frequency and bridge design could lead to public safety concerns during flood events.
- Looking at the 2D model and comparing their existing conditions to the proposed conditions with a built-up soil bank on the east side of the cutoff ditch, there were some results that concerned us. By building up the east side to help contain the flooding, this:
 - increased the conveyance through the bridge opening from 1800 cfs to 3800 cfs
 - increased the water surface elevation by 0.8 feet
 - reducing the freeboard from 1.56 feet to 0.76 feet
 - increased the velocity through the bridge opening from 6 ft/s to 8 ft/s
 - increased the contraction scour depth
 - still need to calculate 3800 cfs conveying through the bridge and compare that to the 3 feet of contraction scour for current conditions.
 - increased the backwater condition anywhere from 0.8 feet due to the Rawhide Creek/Shell Creek controlling to 1.5 feet of backwater due to the Platte River overflow controlling.

After consulting with both state agencies, NeDNR and NeDOT, NEMA has determined that the requirements for including the levee in the HMGP Project, DR-4420-NE-0034 North Bend Cutoff Ditch, are not feasible to complete within the allotted HMPG timeframe. NEMA recommends that North Bend Drainage District move forward with the original intent of this project, as outlined in the scope of work. If the North Bend Drainage District or Dodge County would like to continue to pursue a mitigation project that will enhance sections of the existing levee, it is recommended that either entity submit a Notice of Interest for grant funding to the Hazard Mitigation Unit at NEMA. If you have any additional questions, please contact Chelsea Harris, Hazard Mitigation Unit Supervisor at Chelsea.harris@nebraska.gov or 402-430-2252.

Sincerely,



Ervin L. Portis
Assistant Director

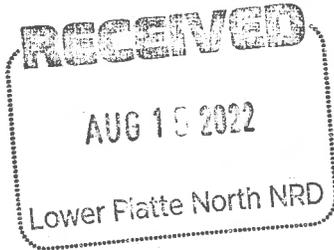
Cc: Tom Smith, Dodge County Emergency Manager
Tom Mountford, Assistant Manager, Lower Platte North Natural Resources District
Rod Scott, Mayor, City of North Bend
Brain Woltz, FEMA Hazard Mitigation Assistance Branch Chief

Village of Lindsay

121 Pine St. - P.O. Box 66

Lindsay, NE 68644

(402) 428-4010



Village of Lindsay

PO Box 66

121 Pine Street

Lindsay, NE 68644

402-428-4010; clerk@villageoflindsay.com

August 5, 2022

Mr. Eric Gottschalk
General Manager
Lower Platte North NRD
511 Commercial Park Road
Wahoo, NE 68066



RE: Cost-share, Financial Assistance for Pond Rehabilitation Project

Dear Mr. Gottschalk:

The Village of Lindsay would like to formally request cost-share assistance from the Lower Platte North NRD for a pond rehabilitation project that arose after the spring 2019 flooding. The flooding overtopped the banks of the pond in town depositing a considerable amount of sediment. The project consists of removal of approximately 5,700 cubic yards of sediment, installation of shoreline protection using an articulated concrete block matting system, installation of a crushed rock trail and access points, and installation of an ADA accessible parking pad. The Village is currently developing an NET grant application that will be submitted during this application period (September 2022), which is requesting 60% of the total project costs from NET. We request that the NRD provide a letter of support to include with the NET grant application.

The Village would also like to formally request the NRD provide cost-share assistance for the pond rehabilitation project described above, up to \$50,000. The cost share could be provided over the course of multiple years, starting in 2023.

We appreciate the NRD's support and assistance with this important project. Feel free to call me at (402) 428-4010 or email me at clerk@villageoflindsay.com if you have any questions. We look forward to hearing your feedback to this request for assistance.

Sincerely,

A handwritten signature in black ink that reads "Fred Hofer".

Fred Hofer
Board Chairman

Enclosure: Conceptual Design Plan, Conceptual Cost Estimate



**LINDSAY POND RESTORATION
VILLAGE OF LINDSAY, NEBRASKA**

PROPOSED GRADING PLAN

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 8/4/2022
PROJECT NO. 2022-001
DRAWN BY: S. H. [unreadable]
CHECKED BY: [unreadable]
FIELD DRAWN BY: [unreadable]
FIELD CHECKED BY: [unreadable]
PROJECT FILE NO.: [unreadable]
DATE: [unreadable]
PROJECT LOCATION: [unreadable]
PROJECT DESCRIPTION: [unreadable]
REVISIONS: [unreadable]

C2.2



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

EARTHWORK QUANTITIES

ITEM	CUT (CU. YD.)	FILL (CU. YD.)
CONCRETE TRAIL (SLAB ON GRADE)	7.774 CT	1,228 CT
POND		37

FILL IN EXPOSED CORNERS OF POND TO RESTORE ORIGINAL SHAPE WITH MATERIAL EXCAVATED ON-SITE.

RAISE BERM AROUND POND TO ELEVATION 1661.00

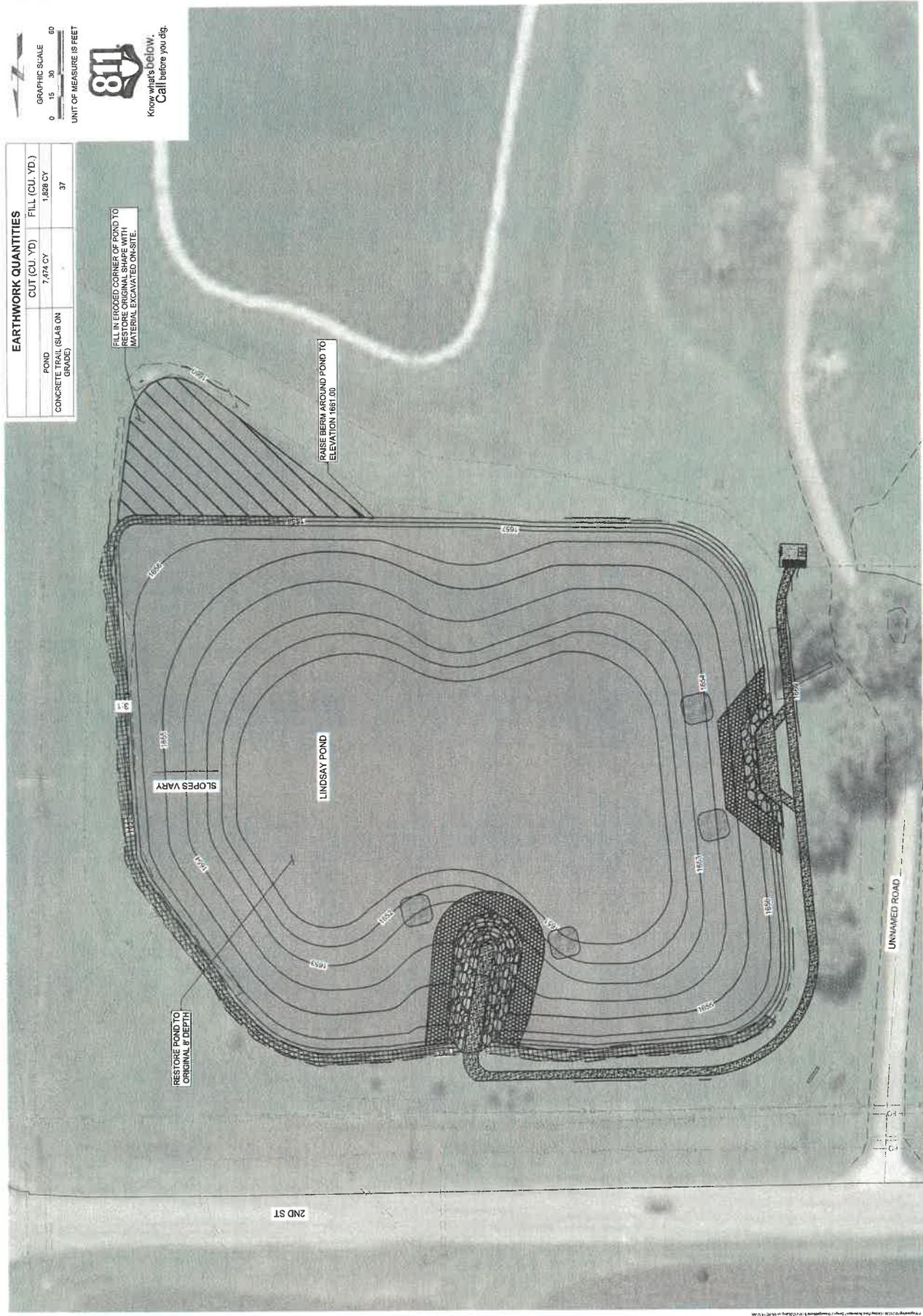
SLOPES VARY

LINDSAY POND

RESTORE POND TO ORIGINAL 8' DEPTH

UNNAMED ROAD

2ND ST



ENGINEER'S BUDGETARY OPINION OF PROBABLE COST

Pond Restoration

Lindsay, NE

JEO Project No. 191217.00

Date Prepared:

August 5, 2022



ESTIMATE OF QUANTITIES

Item #	Description	Unit	Quantity	Unit Price	Total
BASE BID - MINIMALIST OPTION					
1.	Mobilization	LS	1	\$20,000.00	\$20,000
2.	Bonding and Insurance	LS	1	\$7,000.00	\$7,000
3.	Excavation, Spoiled Off-Site (Established Quantity)	CY	5,646	\$15.00	\$84,690
4.	Earthwork Measured in Embankment, On-Site Borrow (Established Quantity)	CY	1,828	\$10.00	\$18,280
5.	Earthwork Measured in Embankment, Off-Site Borrow (Established Quantity)	CY	1,050	\$20.00	\$21,000
6.	Dewatering	LS	1	\$25,000.00	\$25,000
7.	ADA Compliant Concrete Parking Pad	SF	288	\$12.00	\$3,456
8.	Rock Riprap Type B	TON	446	\$100.00	\$44,600
9.	Flexamat	SY	732	\$50.00	\$36,600
10.	Crushed Rock Surface Course	TONS	119	\$60.00	\$7,140
11.	Pea Gravel Spawning Bed, 8" Thick	TON	250	\$60.00	\$15,000
12.	Artificial Habitat	EA	4	\$750.00	\$3,000
13.	Seeding, Fertilizer and Mulch	ACRE	0.8	\$7,500.00	\$6,000

Construction Subtotal	Base Bid	\$291,770
	Contingency 20%	\$58,360
Total Opinion of Construction Cost		\$350,130

PROFESSIONAL SERVICES

1.	Design Services (Engineering, Survey, Architecture)	\$50,600
Subtotal Professional Services		\$50,600
Total Opinion of Project Cost		\$400,730

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.