

# Memorandum

To: Programs, Projects, and Operations Subcommittee

From: Eric Williams

Date: April 3, 2024

RE: FY 2025 Cost Share Programs

- a. Urban Drainageway Program
- b. Recreation Area Development Program
- c. Flood Mitigation Planning and Mapping Assistance Program
- d. Trails Assistance Program

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The District solicited applications for the urban cost share programs from the various units of government in the District for the upcoming fiscal year. The following applications were received.

## **Urban Conservation Assistance Program**

The Urban Conservation Assistance Program (UCAP) cost shares with units of government to solve relatively minor erosion, flooding, and stormwater management problems within their jurisdiction. The Policy Manual allows for Management approval of all applications.

No applications were received for this program for FY 2025.

## **Stream Crossing Grade Control**

The purpose of the program is to provide technical and financial assistance for grade control including road and utility crossings. Cost share is 50% of eligible costs up to \$150,000 per project.

No applications were received for this program for FY 2025.

## **Urban Drainageway Program**

The Urban Drainageway Program (UDP) provides cost share to units of government to rehabilitate major urban drainageways within their jurisdiction. The cost share rate varies depending on the level of rehabilitation. This program was redefined by the Board in 2011. Board approval is required on all applications. New program applications were received and are outlined below.

### **Omaha, Eagle Run Creek**

This section of creek has experienced incision and erosion damage including the energy dissipation outlet structure on the downstream end of the culvert under 144<sup>th</sup> Street. The City of Omaha has a cost share agreement with Champions Run Golf Course for implementation of a comprehensive project to restore and improve the channel.

### Papillion, Matthies and Delmar Creek

This section of the creek is downstream from recent work to restore and improve the channel adjacent to the new Tower District. Erosion damage along this section of creek is threatening an aerial sanitary sewer crossing, and a significant water main from the water tower. This project will protect both public infrastructure and private property.

### Ralston, Ralston Creek

The portion of Ralson Creek between 84<sup>th</sup> Street and 72<sup>nd</sup> Street has experienced damage including erosion, widening, degradation, and accumulation of debris. The proposed solution is to restore and improve the channel while expanding the public green space along the trail corridor to provide recreation and access to natural resources.

The FY 2024 budget did not include any funding for new projects in this program. The following table summarizes the FY 2025 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2025 Cost Share</u>
Omaha, Eagle Run Creek	\$2,250,000	\$300,000
Papillion, Matthies and Delmar Creek	\$545,340	\$218,000
Ralston, Ralston Creek	\$2,000,000	\$1,200,000
Total	\$4,795,340	\$1,718,000

- **Management recommends that the Subcommittee recommend to the Board of Directors that the applications from the City of Omaha for \$300,000, the City of Papillion for \$218,000, and the City of Ralston for \$1,200,000 for a total of \$1,718,000 be approved, subject to funding in the FY 2025 Budget.**

### Recreation Area Development Program

The Recreation Area Development Program (RAD) cost shares with communities to develop and improve recreation areas within their jurisdiction. The cost share rate is 50%. On projects requesting more than \$20,000, the Policy Manual requires Board approval. On all others, Management has approval authority.

### Bennington, Disc Golf Course

A new disc golf course is planned along the Big Papio Creek with facilities including in existing park land near the baseball fields. The project will include design and construction of the course as well as a new shelter, and pad for a portable restroom.

### Bennington, Park and Trail Master Plan

An update to the current plan from 2008 will address mobility and consider future plans for newly developed areas in and around town.



#### Homer, Splash Pad

The Village of Homer plans to purchase land, clear existing trees and stumps, and construct a fence around the lot for future construction of a splash pad.

#### Omaha, Lee Valley Park Sprayground

A new water recreation facility is planned to replace a recently removed swimming pool in this neighborhood park. The project is planned for construction in late 2024.

#### Omaha, Zorinsky Lake Inclusive Playground

New features are being added to the existing recreation area at Zorinsky Lake with a focus on providing an inclusive play environment. The request is for assistance with site preparations for a large construction project which will occur after the site has been prepared.

#### Papillion, City Park Upgrades

Upgrades to this central recreation location were identified in the 2021 Parks and Recreation Plan update. This will be a multi-phase project, with the first phase including a restroom, shelter, trees, lighting, playground, and additional site amenities.

#### South Sioux City, Basketball Courts

A replacement court is planned for Covington Park located in a residential neighborhood, and a new court planned at Scenic Park along the Missouri River.

#### Valley, Park Renovation Phase 1

Following a study of community facilities, comprehensive upgrades are planned for City Park located in the middle of town. This phase will include site preparation, sports courts, a shade structure, landscaping, and lighting.

The FY 2024 budget included \$325,750 for projects in this program. The following table summarizes the FY 2025 applications.

<b><u>Sponsor, Project</u></b>	<b><u>Total Estimated Cost</u></b>	<b><u>FY 2025 Cost Share</u></b>
Bennington, Disc Golf Course	\$38,237	\$19,119
Bennington, Park and Trail Master Plan	\$55,000	\$27,500
Homer, Splash Pad	\$48,119	\$24,059
Omaha, Lee Valley Park Sprayground	\$521,210	\$50,000
Omaha, Zorinsky Lake Inclusive Playground	\$369,835	\$50,000
Papillion, City Park Upgrades	\$1,500,000	\$50,000
South Sioux City, Basketball Courts	\$105,840	\$50,000
Valley, Park Renovation Phase 1	\$1,503,600	\$50,000
Total	\$4,141,838	\$320,678

- **Management recommends that the Subcommittee recommend to the Board of Directors that the applications from the City of Bennington for \$19,119 and \$27,500, the Village of Homer for \$24,059, the City of Omaha for \$50,000 and \$50,000, the City of Papillion for \$50,000, South Sioux City for \$50,000, and the City of Valley for \$50,000 for a total of \$320,678 be approved, subject to funding in the FY 2025 Budget.**

### **Flood Mitigation Planning and Mapping Assistance Program**

This program provides technical and financial assistance to governmental entities to help identify flood prone areas and plan projects to reduce flood risk and damage. Cost sharing is 50% of eligible costs of the project to a maximum amount of \$50,000.

#### **Tekamah, Northeast Tekamah Urban Drainage Master Plan**

This part of town has recurring local flooding due to the lack of storm sewers. Stormwater accumulates and remains on streets and has caused damage to road surfaces. This planning effort will identify deficiencies and recommend effective mitigation to improve drainage in the area.

The FY 2024 budget did not include cost share funding for projects in this program. The following table summarizes the FY 2025 applications.

<b><u>Sponsor, Project</u></b>	<b><u>Total Estimated Cost</u></b>	<b><u>FY 2025 Cost Share</u></b>
Tekamah, Northeast Urban Drainage Plan	\$77,500	\$38,750
Total	\$77,500	\$38,750

- **Management recommends that the Subcommittee recommend to the Board of Directors that the application from the City of Tekamah for \$38,750 be approved, subject to funding in the FY 2025 Budget.**

### **Trails Assistance Program**

The Trails Assistance Program cost shares with sponsors on trail projects to provide recreation and active transportation opportunities in the District. The cost share rate is 50% of the local share. All projects require Board approval.

#### **Fort Calhoun, Connecting Fort Calhoun**

A comprehensive set of connections are planned across Fort Calhoun. This project has received federal aid and is requesting cost share toward half of the local costs. Connections will be made between numerous public facilities including parks, schools, businesses, and neighborhoods, with trails on both the east and west side of town.

#### **Omaha Public Schools, Westview Arboretum Trail**

An outdoor open space is planned at the newly completed Westview High School. The arboretum will feature trails to provide access to and through the trees and natural space and will include multiple

different types of tree, shrub, and ground cover plantings, as well as a food forest. The trail will provide public access to the newly developed space.

#### SID 305 (Sarpy County), Pioneer View Trail Connections

The neighborhood is located along Fricke Creek and a connection to the existing trail network is planned as part of comprehensive upgrades in the open green space. The new trail will provide access west along the creek corridor and toward the high school. Additional connections in the neighborhood will help people access the natural resources along the creek, and the plan accommodates potential future trail connectivity to the Big Papio Trail.

#### South Sioux City, C Street Trail Expansion

A connection to expand the existing trail network is planned to improve pedestrian and bicycle safety. The trail is located near a school and will be a valuable improvement for students and the public.

The FY 2024 budget included \$1,519,330 for projects in this program. The following table summarizes the FY 2025 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2025 Cost Share</u>
Fort Calhoun, Connecting Fort Calhoun	\$690,337	\$345,189
OPS, Westview Arboretum Trail	\$180,624	\$90,312
SID 305, Pioneer View Trail Connections	\$506,688	\$253,344
South Sioux City, C Street Trail Expansion	\$254,904	\$127,452
Total	\$1,632,593	\$816,297

- **Management recommends that the Subcommittee recommend to the Board of Directors that the applications from the City of Fort Calhoun for \$345,189, Omaha Public Schools for \$90,312, SID 305 for \$253,344, and South Sioux City for \$127,452 for a total of \$816,297 be approved, subject to funding in the FY 2025 Budget.**

#### Lake Dredging Program

This program is designed to cost share with municipalities to remove sediment from lakes providing public recreation. The cost share rate is 50% of the local cost up to a maximum of \$100,000.

No applications were received for this program for FY 2025.

#### Flood Mitigation Assistance Program

The Flood Mitigation Assistance Program (FMAP) is an authorized program to provide technical and financial assistance to municipalities and other units of government to mitigate flood losses through structural flood control projects in developed, urban areas. This program provides 50% cost share on eligible costs of the project to a maximum amount of \$500,000.

No applications were received for this program for FY 2025.

## Urban Drainageway Program – Application Form



Project name OPW 54689 144th & West Maple Creek Outfall Repair

Project location (attach location map) 144th & W Maple Rd

Sponsor organization City of Omaha

Sponsor address 1819 Farnam Street

City Omaha State NE ZIP 68183

Contact person Selma Kessler

Title CE III

Email address selma.kessler@cityofomaha.org Daytime phone 402-444-3915 x1123

Description of problem (attach additional sheets as needed)

Upstream urbanization has increased flow volumes and velocities  
leading to stream incision and failure of the 144th St culvert energy  
dissipator. See attached report for further information.

Proposed solution (attach additional sheets as needed)

Raising the stream bed by an average 7-feet, splaying back the banks,  
and adding grade control structures including riffles and sills. See  
attached report for further information.

Level of Design      Level 1 ☐      Level 2 ☒      Level 3 ☐

Total estimated cost      \$ 2.25 million      Cost share request      \$ 300,000

Selma C Kessler  
Digitally signed by Selma C Kessler  
DN: C=US, E=selma.kessler@cityofomaha.org,  
O=Omaha Public Works, OU=Design Division,  
CN=Selma C Kessler  
Reason: Document approved for submittal  
Date: 2024.03.07 08:39:19-06'00'

Signature

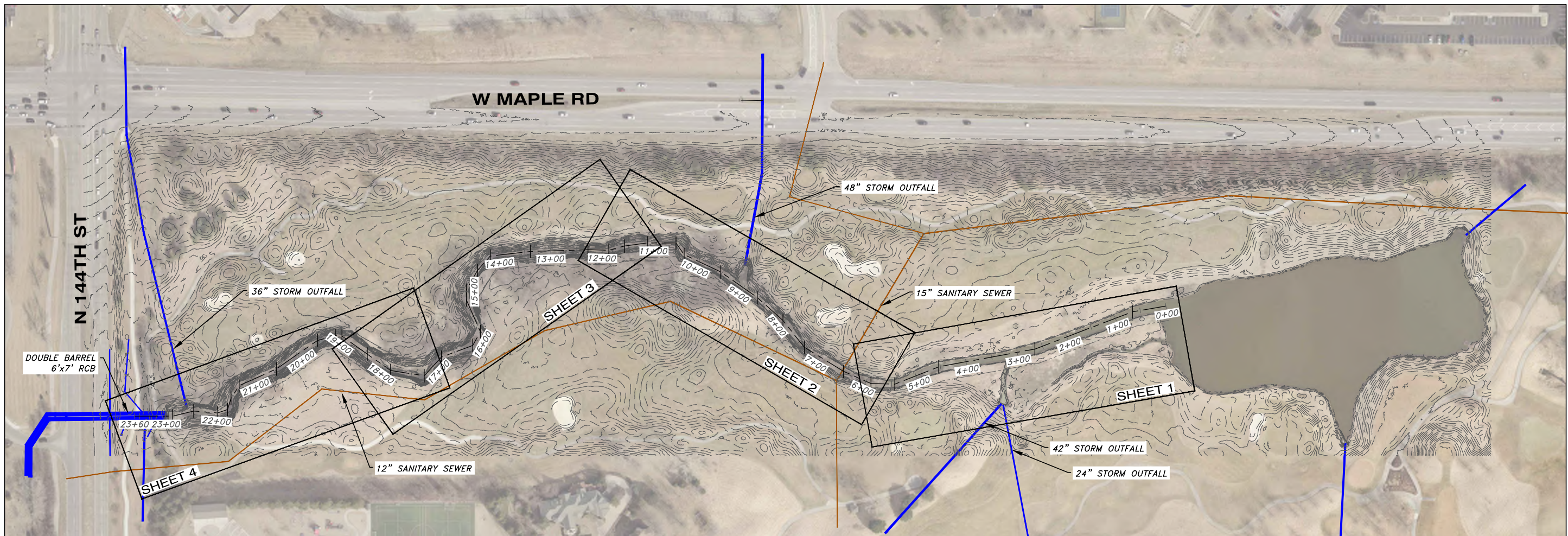
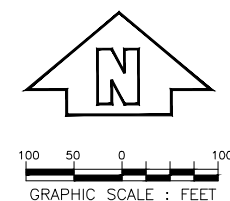
3/7/2024

Date

CE III

Title






REVISIONS

**STREAM  
CONDITIONS  
KEY MAP**

**144TH ST & W MAPLE  
CREEK CULVERT  
OUTFALL**  
**OPW 54689**



**CITY OF OMAHA**  
**PUBLIC WORKS DEPARTMENT**  
Omaha/Douglas Civic Center  
1819 Farnam Street, Suite 600, Omaha, Nebraska 68183

ISSUE DATE  
11/27/2023  
DESIGN BY  
AJH  
DRAWN BY  
JMO  
SHEET  
**KEY MAP**

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# memo

**To:** Selma Kessler, City of Omaha

**From:** Aaron Hirsh, PE, CFM

**Date:** 03/06/2024

**Subject:** OPW 54689 - 144<sup>th</sup> St & W Maple Creek Culvert Outfall  
Urban Drainageways Program Application

## Introduction

Eagle Run Creek has been experiencing channel incision and sloughing of the banks causing steep slopes along portions of the channel. These stream bank failures, failed gabion baskets, and a failed energy dissipator at the outlet of the 144<sup>th</sup> Street culvert outlet just south of the W Maple Rd intersection are threatening the culvert integrity and the stability of the surrounding area. Due to this, the City of Omaha included repair of the failed energy dissipator within the Capital Improvement Plan (CIP). A significant portion of Eagle Run Creek is located within Champions Run Golf Course (CRGC). Stream incision through the CRGC property has caused threats to safety and infrastructure, and the existing pond on the golf course property has almost completely silted in. As a result, CRGC approached the City of Omaha about a partnership to complete a stream stabilization project that would be mutually beneficial by restoring a portion of Eagle Run Creek between 144<sup>th</sup> Street and the CRGC pond, stabilizing several public storm sewer outfalls, and dredging the pond. The City of Omaha then contracted with Embris Group to conduct a stream assessment and develop a conceptual plan for the stream restoration project.

## Stream Assessment Summary

Overall, the creek was determined to be stable down near the CRGC pond with adequate access to its floodplain for overbank flows, but the stream condition gets progressively more degraded as you move upstream towards 144<sup>th</sup> Street. Upstream urbanization has resulted in increased stream flows and velocities, causing the channel to incise. The channel incision has cut the stream off from its floodplain forcing all the flow into a smaller flow area, thereby increasing velocities, and accelerating erosion. The area near the 144<sup>th</sup> Street culvert exhibited the most extreme degradation with sheer vertical banks over 20-feet high on either side. Downstream from the 144<sup>th</sup> Street culvert there are two back-to-back 90-degree stream bends which show significant bank cutting on the outside bends. These banks will continue to cut, undermine, and slough off causing the creek to widen into the golf course fairway, potentially exposing the 12-inch sanitary sewer in this location over time. The stream condition assessment can be found in **Attachment 1** of this document as well as in an ArcGIS Story Map that can be accessed using the following link: <https://arcg.is/1y58n01>.



## Conceptual Plan Summary

To resolve these ongoing stream degradation issues the City/CRGC partnership is proposing restoration of the creek by raising the creek approximately 7-feet along its length to restore it to its prior elevation, reducing the volatility and erosion occurring at the existing vertical drop at the N 144<sup>th</sup> Street culvert outfall. The stream will be raised through the installation of a total of nine rock riprap riffles, five of which are made more robust with sheet pile, as well as two rock riprap sills. The CRGC pond will be dredged to remove the sediment that has been deposited in the pond since it was constructed in the early 1990's. The pond dredging will also provide the fill material required for the grade raise of the stream bed elevation. In conjunction with the dredging of the pond a sediment forebay will be constructed to force sediment to settle out prior to entering the CRGC pond.

The conceptual stream restoration plan is displayed in **Attachment 2**. Overall, the conceptual level opinion of probable construction cost (OPCC) for this project was **\$2.25 million** including engineering design, permitting, construction, as well as construction administration. The detailed OPCC can be found in **Attachment 3**.

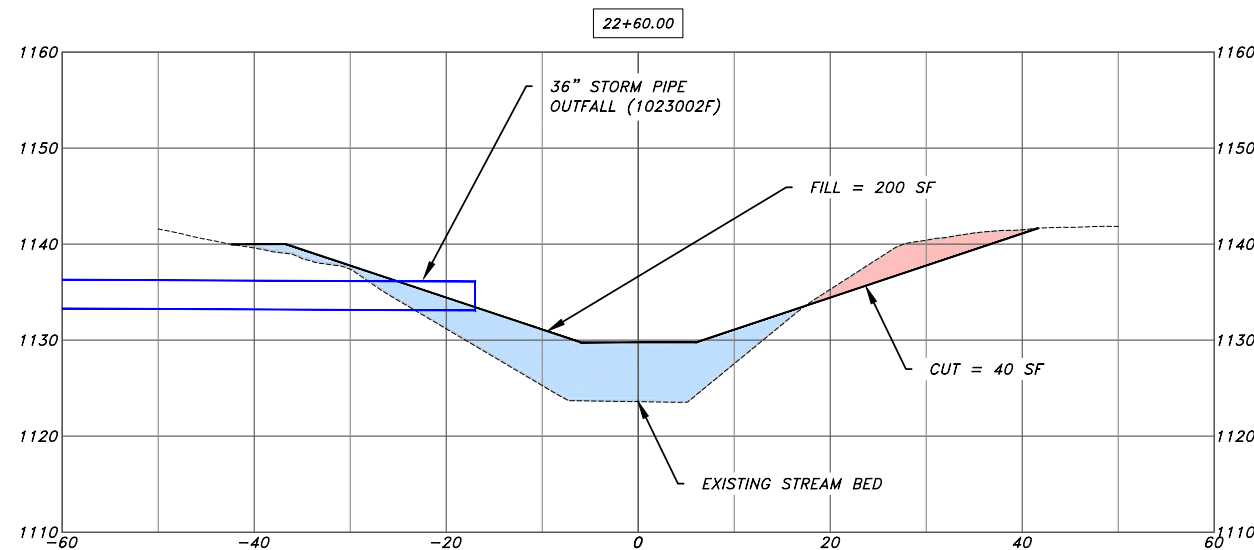
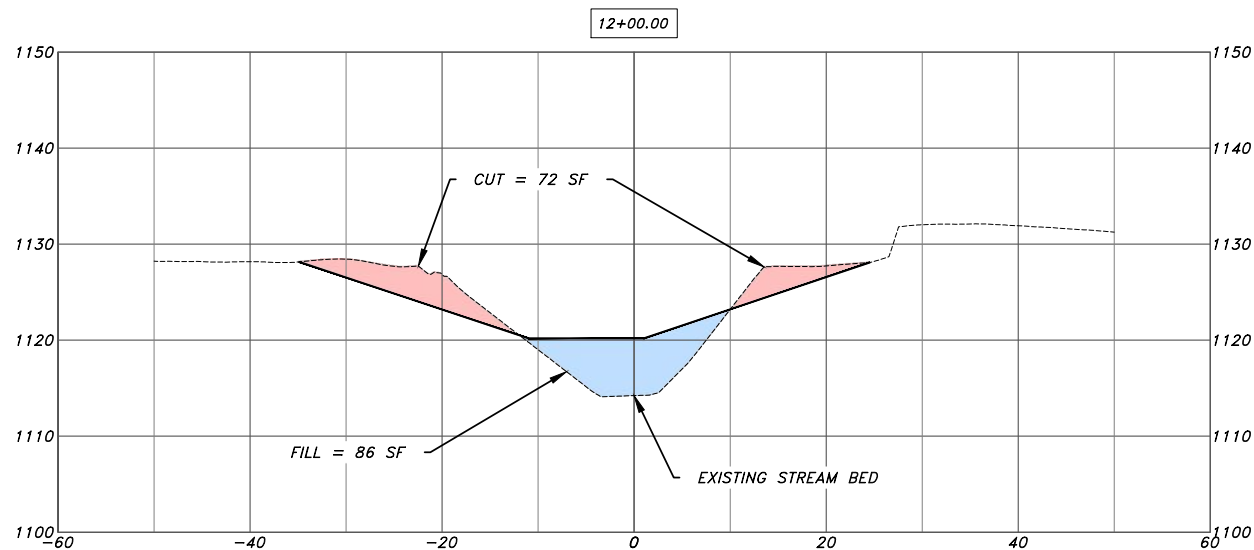
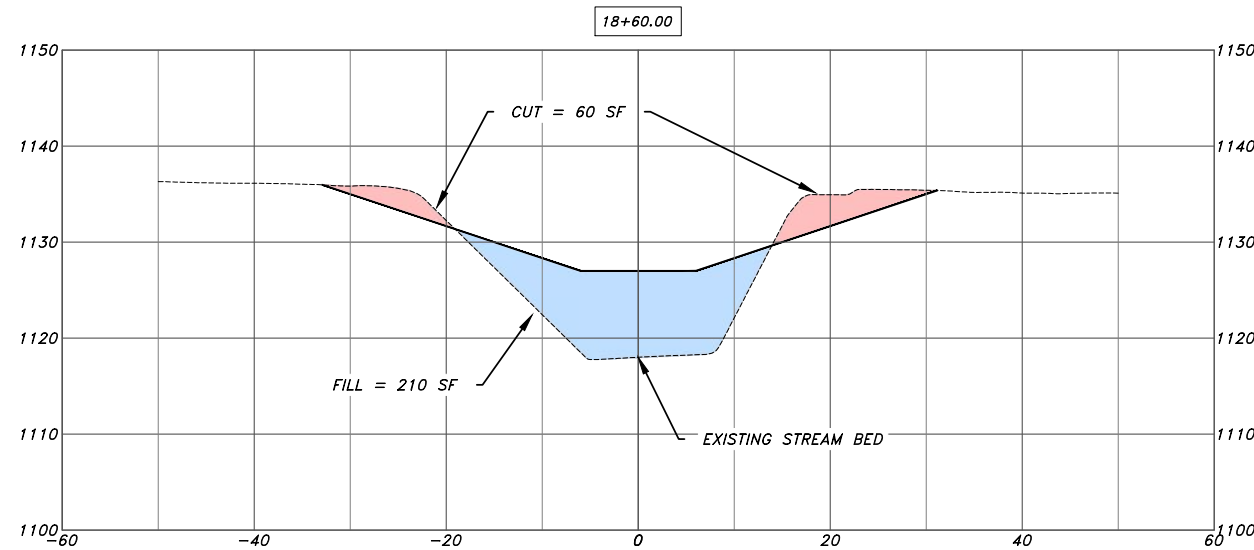
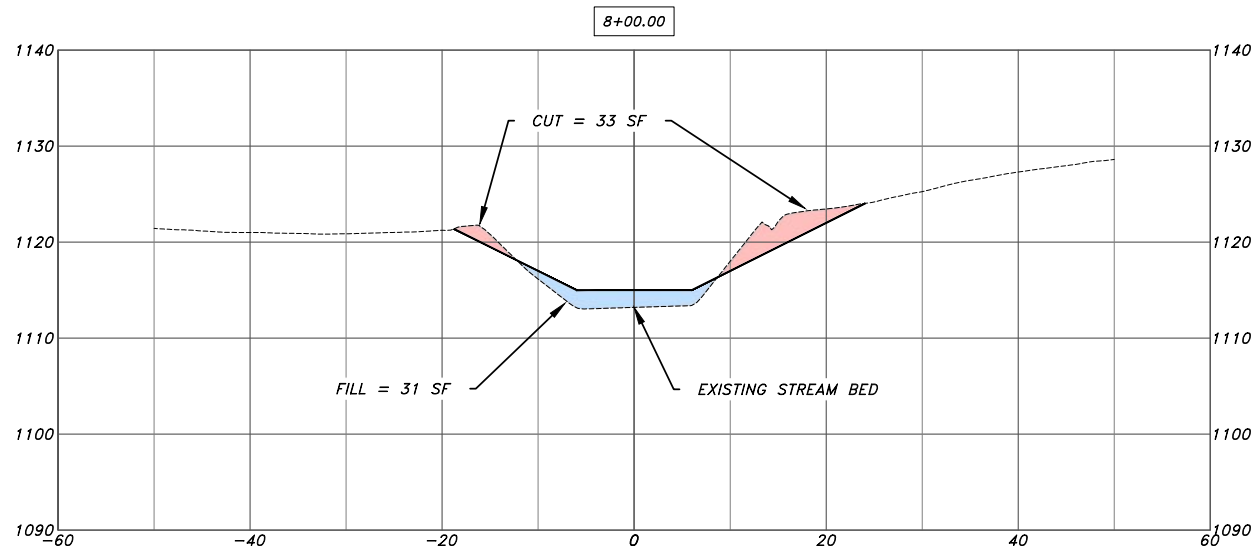
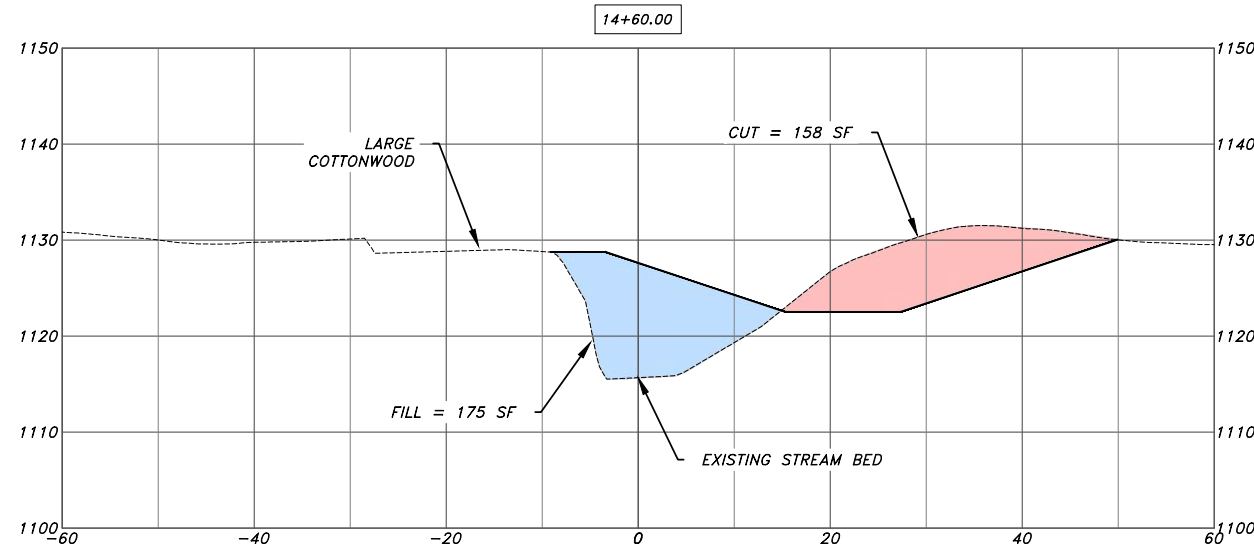
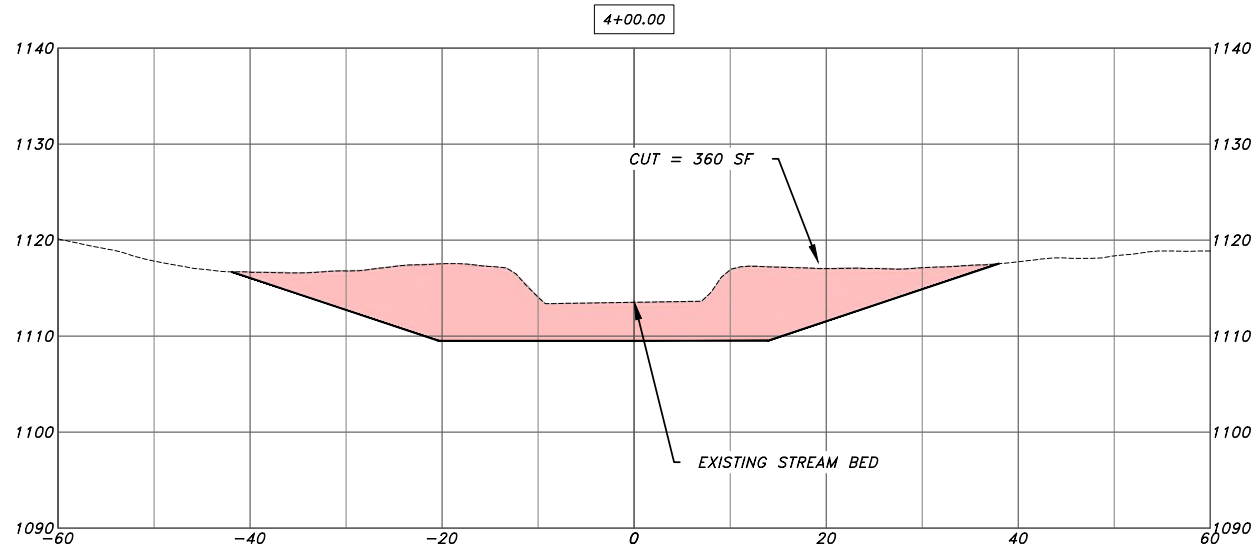
## Project Funding

The project is pursuing \$300,000 in funding through the Papio-Missouri River NRD (PMNRD) Urban Drainageway Program to help close existing funding gaps and turn the project into a reality. The project has previously submitted and been awarded \$300,000 in funding through the Nebraska Department of Environment and Energy (NDEE) administered Section 319(h) grant for non-point source pollution elimination. The NDEE Section 319 Project Implementation Plan (PIP) was previously prepared, submitted, and approved by the NDEE and EPA, but due to changes in the conceptual plan, the PIP will need to be revised and resubmitted for review and approval. The project will also apply for an additional \$300,000 in funding through the Nebraska Environmental Trust (NET) in September 2024. The remainder of the project funding will be through a cost share agreement between the City of Omaha and CRGC.

## Project Schedule

This project is planned for engineering design in 2024, permitting in 2024-2025, and bidding in early 2025. Since the entire project lies completely within CRGC property, there will be no need for right-of-way or easements. The anticipated construction start will be in September of 2025 with completion over the winter for Spring 2026 opening of the golf course. CRGC is currently planning replanting of all greens and fairways throughout the course during this same construction schedule.

FILENAME: C:\Users\AronHirsh\DC\ACCDocs\Enbris Group\230034.00 OPW 54689 144th & W Maple Creek Outfall Repair\Project Files\Drawings\D-230034 Creek\_Concept\_Lat1.dwg  
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REVISIONS


STREAM  
RESTORATION  
CONCEPT PLAN

144TH ST & W MAPLE  
CREEK CULVERT  
OUTFALL  
OPW 54689



**CITY OF OMAHA**  
PUBLIC WORKS DEPARTMENT  
Omaha/Douglas Civic Center  
1819 Farnam Street, Suite 600, Omaha, Nebraska 68183

ISSUE DATE  
2/23/2024  
DESIGN BY  
AJH  
DRAWN BY  
JMO  
SHEET  
5 OF 5



**ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST  
CITY OF OMAHA, NE  
OPW 54689 144TH ST & W MAPLE CREEK CULVERT OUTFALL  
STREAM RESTORATION (CITY/CRGC PARTNERSHIP)**

<b>LINE ITEM</b>	<b>ITEM DESCRIPTION</b>	<b>BID QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL FOR BID ITEM</b>
1	MOBILIZATION/DEMOBILIZATION	1	LS	\$142,190.00	\$142,190.00
2	SWPPP ALLOWANCE	1	LS	\$23,000.00	\$23,000.00
3	ENVIRONMENTAL ALLOWANCE	1	LS	\$23,000.00	\$23,000.00
4	DEWATERING AND SURFACE WATER CONTROL	1	LS	\$46,000.00	\$46,000.00
5	TEMPORARY ACCESS CROSSING	4	EA	\$6,000.00	\$24,000.00
6	CLEARING AND GRUBBING - GENERAL	1	LS	\$34,500.00	\$34,500.00
7	EXCAVATION ON-SITE	10,400	CY	\$15.00	\$156,000.00
8	EXCAVATION HAUL-OFF	10,000	CY	\$20.00	\$200,000.00
9	CONSTRUCT SAND FILTER	315	TON	\$80.00	\$25,200.00
10	ROCK RIFFLE/SILL (TYPE B/C RIP-RAP MIX)	2,215	TON	\$100.00	\$221,500.00
11	TOE ROCK AND BANK PROTECTION (TYPE B/C RIP-RAP MIX)	2,125	TON	\$100.00	\$212,500.00
12	CONSTRUCT SHEET PILE	4,860	SF	\$50.00	\$243,000.00
13	REMOVE TOPSOIL	9,400	SY	\$6.00	\$56,400.00
14	PLACE TOPSOIL	9,400	SY	\$6.00	\$56,400.00
15	INSTALL ROLLED EROSION CONTROL, TYPE II	9,400	SY	\$4.00	\$37,600.00
16	INSTALL SEEDING - TYPE NATIVE SEED	9,400	SY	\$3.00	\$28,200.00
17	LIVE STAKES	770	EA	\$20.00	\$15,400.00
18	REPLACEMENT TREES	24	EA	\$800.00	\$19,200.00

**Total Opinion of Construction Cost      \$1,564,090.00**

**Construction Contingency (20%)      \$312,818.00**

**TOTAL CONSTRUCTION COST      \$1,876,908.00**

**Engineering Design, Permitting and Construction Administration (20%)      \$375,382.00**

**TOTAL PROJECT COST      \$2,252,290.00**

## Urban Drainageway Program – Application Form



Project name Matthies and Delmar Creek Stream Restoration

Project location (attach location map) Matthies Dr and Delmar St

Sponsor organization City of Papillion

Sponsor address 9909 Portal Road

City Papillion State NE ZIP 68046

Contact person Alex Evans, P.E.

Title City Engineer

Email address aevans@papillion.org Daytime phone 402-597-2044

Description of problem (attach additional sheets as needed)


An existing 8" sanitary sewer crossing has two concrete abutments  
which have been undermined and are in need of repair/replacement.  
See attached report for further information.

Proposed solution (attach additional sheets as needed)

Raising of stream bed approx. 2 feet, construction of five rock riffles,  
replacement of a sheet pile wall and construction of new concrete  
abutment. See attached report for further information.

Level of Design      Level 1 ☐      Level 2 ☐      Level 3 ☒

Total estimated cost      \$ 545,340      Cost share request      \$ 218,000

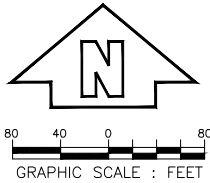
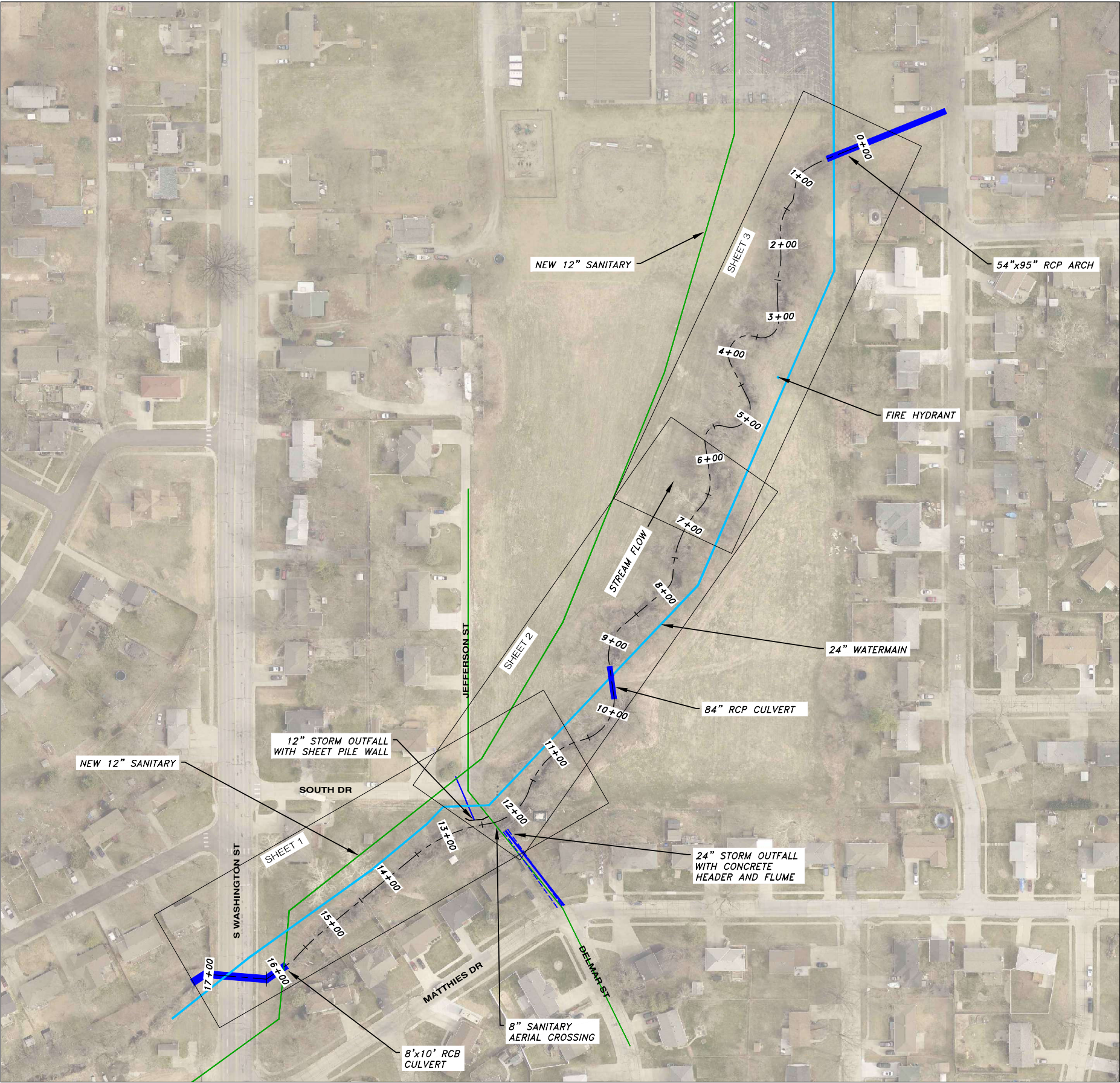
  
Signature

3/22/2024  
Date

City Engineer  
Title



FILENAME: C:\Users\AaronHirsh\DC\ACCDocs\Enbris Group\230027.00 Matthies and Delmar Sanitary Sewer\Drawings\0-D-230027 Creek PNP.dwg  
DATE PLOTTED: 2/29/2024 5:25 PM DRAWN BY: ### PLOT SCALE: 1:2



REVISIONS

**STREAM  
CONDITIONS  
KEY MAP**

**MATTHIES AND DELMAR  
STREAM ASSESSMENT**



**CITY OF PAPILLION**  
**PUBLIC WORKS DEPARTMENT**  
9909 Portal Road, Papillion, NE 68046

ISSUE DATE  
2/29/2024  
DESIGN BY  
AJH  
DRAWN BY  
JMO  
SHEET  
KEY MAP



# memo

**To:** Derek Goff, City of Papillion

**From:** Aaron Hirsh, PE, CFM

**Date:** 03/13/2024

**Subject:** Matthies & Delmar Creek – Urban Drainageway Program Application

## Introduction

Along an unnamed tributary creek north of Matthies Dr and Delmar St intersection, there is an 8" sanitary sewer aerial crossing at the creek between the Matthies Dr & Delmar St intersection and the South Dr & Jefferson St intersection. Because of risks associated with the sanitary sewer aerial crossing, the City of Papillion has requested Embris Group investigate the condition of the creek and develop a conceptual stream restoration plan to address the stream degradation and protect City infrastructure. Along the entire length of the creek there is also a 24" water main from the City's water tower, which is at risk of potential exposure from ongoing and future stream degradation. Additionally, a new sanitary line is being installed on the west side of the creek to E Halleck St that would also be better protected with this stream restoration project.

Upstream of the creek, a new subdivision (the "Tower District") is currently under development, which will influence future flows within the creek. Additionally, there is currently an ongoing stream restoration project of the creek just upstream of the S Washington Street culvert along Valley Road to Trumble Park, which will also impact the creek in the future. All of these factors lead to a need to investigate the condition of the creek and develop a stream restoration plan to address the ongoing degradation. The City of Papillion contracted with Embris Group to conduct the stream assessment and to develop a conceptual plan for the stream restoration project.

## Stream Assessment Summary

Overall, the creek was determined to be actively widening in the lower reaches and actively incising/widening in the upper reach between the 8" sanitary aerial crossing and the S Washington Street box culvert. Upstream urbanization has resulted in increased stream flows and velocities, causing the creek to incise and grow deeper. The channel incision has cut the creek off from its floodplain forcing all the flow into a smaller area, thereby increasing the flow velocities, and accelerating erosion. On the southern bank of the creek just downstream of the S Washington Street culvert there are sheer vertical banks over 8 feet tall that are posing risks to private property. The stability of the aerial crossing is also questionable due to the undermining of both of its support structures. The southern support is the concrete header of the 24" storm sewer, which is currently stable but is starting to get undermined. The northern support is a concrete footer behind the sheet pile wall and is currently undermined and being supported by a tree root. This could lead to failure of the aerial crossing if the supports continue being undermined. The stream condition assessment can be found in **Attachment 1** of this document as well as in an ArcGIS Story Map that can be accessed using the following link: <https://arcg.is/HufWq0>.

## Conceptual Plan Summary

The conceptual stream restoration plan addresses the existing stream degradation, bank failure, and City infrastructure issues along Matthies and Delmar Creek on the reach from the S Washington St 8'x10' RCB culvert to the 84" RCP culvert. This section contains the most severe risk to public and private infrastructure, including risks to private property, risks to the City of Papillion 24" water main which parallels the creek on the north, as well as the risks to public infrastructure with the nexus of two storm sewer systems and the unsupported aerial crossing of an 8" sanitary sewer.

By raising the creek approximately 2 feet along its length, the stream bed is restored to its prior elevation, reducing the volatility and erosion occurring at the existing steep slope at the S Washington St 8'x10' RCB culvert outfall. Additionally, raising of the creek addresses the undermining of the south 24" storm outfall structure, which also serves as the south abutment of the aerial crossing. The stream will be raised through the installation of a total of five rock riprap riffles, as well as one rock riprap sill. The riffles allow for a grade change of the stream in a protected manner and emulate natural geomorphological processes. These grade control structures prevent head cuts from working further upstream, thereby arresting stream degradation, and preventing the stream bed drop that has been observed.

On the north bank, the existing failing sheet pile wall will be rebuilt, shifted back, and extended. The new sheet pile wall will be extended downstream of the aerial crossing to protect the north bank from opposite bank flows from the 24" storm outfall on the south bank. In conjunction with the new sheet pile wall a new north concrete abutment will be constructed for the 8" sanitary aerial crossing.

The conceptual stream restoration plan is displayed in **Attachment 2**. Overall, the conceptual level opinion of probable construction cost (OPCC) for this project was **\$545,340**, including engineering design, permitting, construction, and construction administration. The detailed OPCC can be found within **Attachment 3**.

## Project Funding

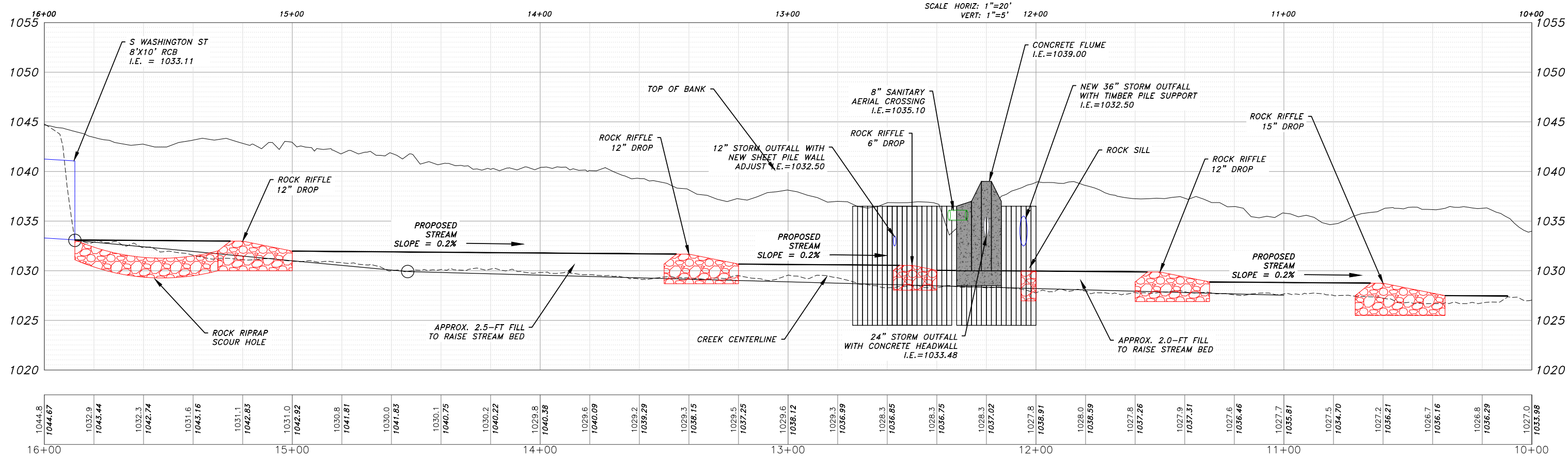
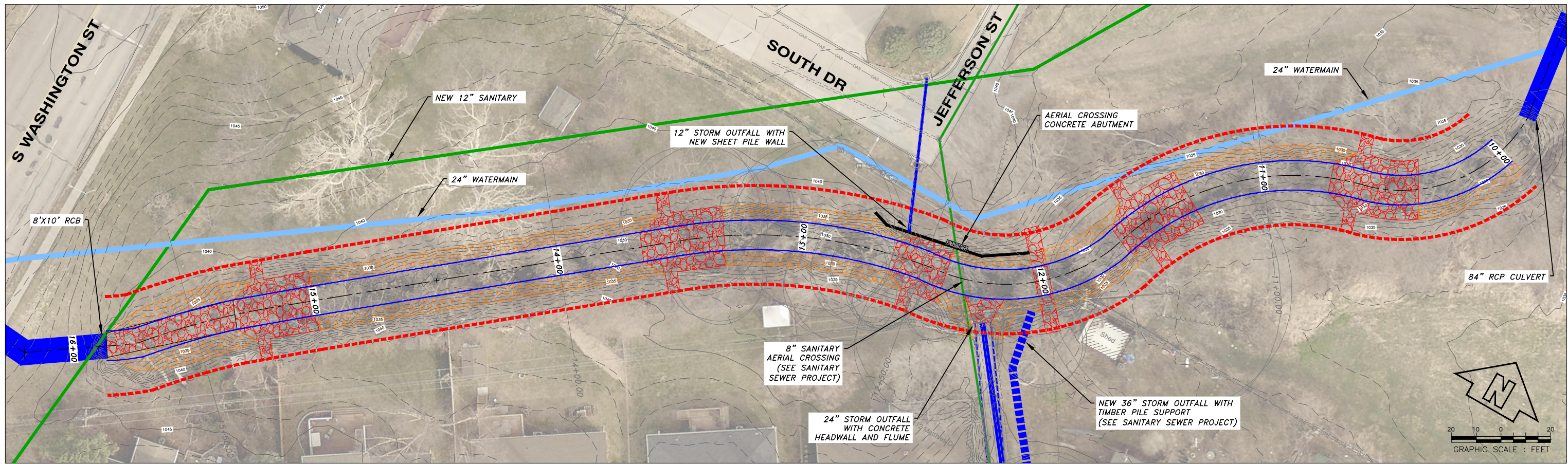
The project is pursuing \$218,000 in funding through the Papio-Missouri River NRD (PMNRD) Urban Drainageways Program to help close existing funding gaps and turn the project into a reality. The project will also pursue up to \$300,000 in funding through the Nebraska Department of Environment and Energy (NDEE) administered Section 319(h) grant for non-point source pollution elimination as well as additional funding through the Nebraska Environmental Trust (NET) in September 2024. The remainder of the project funding will be through the City of Papillion.

## Project Schedule

This project is planned for engineering design in 2024-2025, permitting in 2025, and bidding in late 2025. Due to ownership of the creek being several private residents with unknown easements, there will be a need for right-of-way or easements acquisitions. The anticipated construction start will be in September of 2026 with completion over the winter for Spring 2027 completion.



FILENAME: C:\Users\VaranHrsh\OneDrive\Enbris Group\230027.00 Matthias and Delmar Sanitary Sewer\Drawings\230027 Creek Concept.dwg  
DATE PLOTTED: 3/11/2024 3:24 PM DRAWN BY: ### PLOT SCALE: 1:2



REVISIONS

CONCEPTUAL PLAN  
PLAN AND PROFILE

MATTHIES AND DELMAR  
STREAM ASSESSMENT



**CITY OF PAPILLION**  
PUBLIC WORKS DEPARTMENT  
9909 Portal Road, Papillion, NE 68046

ISSUE DATE  
3/7/2024  
DESIGN BY  
AJH  
DRAWN BY  
JMO  
SHEET  
1 OF 2



**ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST  
CITY OF PAPILLION, NE  
MATTHIES & DELMAR CREEK  
CONCEPTUAL STREAM RESTORATION PLAN**

<b>LINE ITEM</b>	<b>ITEM DESCRIPTION</b>	<b>BID QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL FOR BID ITEM</b>
1	MOBILIZATION/DEMOBILIZATION	1	LS	\$34,428.00	\$34,428.00
2	SWPPP ALLOWANCE	1	LS	\$6,000.00	\$6,000.00
3	ENVIRONMENTAL ALLOWANCE	1	LS	\$6,000.00	\$6,000.00
4	DEWATERING AND SURFACE WATER CONTROL	1	LS	\$9,000.00	\$9,000.00
5	TEMPORARY ACCESS CROSSING	2	EA	\$6,000.00	\$12,000.00
6	CLEARING AND GRUBBING - GENERAL	1	LS	\$18,000.00	\$18,000.00
7	EXCAVATION ON-SITE	520	CY	\$20.00	\$10,400.00
8	CONSTRUCT SAND FILTER	110	TON	\$90.00	\$9,900.00
9	ROCK RIFFLE/SILL (TYPE B/C RIP-RAP MIX)	690	TON	\$120.00	\$82,800.00
10	TOE ROCK AND BANK PROTECTION (TYPE B/C RIP-RAP MIX)	500	TON	\$120.00	\$60,000.00
11	CONSTRUCT SHEET PILE	790	SF	\$60.00	\$47,400.00
12	CONSTRUCT AERIAL CROSSING CONCRETE ABUTMENTS	1	LS	\$12,000.00	\$12,000.00
13	CONSTRUCT TIMBER PILE SUPPORT	1	EA	\$6,000.00	\$6,000.00
14	REMOVE TOPSOIL	1,860	SY	\$7.00	\$13,020.00
15	PLACE TOPSOIL	1,860	SY	\$7.00	\$13,020.00
16	INSTALL ROLLED EROSION CONTROL, TYPE II	1,860	SY	\$5.00	\$9,300.00
17	INSTALL SEEDING - TYPE NATIVE SEED	1,860	SY	\$4.00	\$7,440.00
18	LIVE STAKES	300	EA	\$20.00	\$6,000.00
19	REPLACEMENT TREES	20	EA	\$800.00	\$16,000.00

**Total Opinion of Construction Cost      \$378,708.00**

**Construction Contingency (20%)      \$75,742.00**

**TOTAL CONSTRUCTION COST      \$454,450.00**

**Engineering Design, Permitting and Construction Administration (20%)      \$90,890.00**

**TOTAL PROJECT COST      \$545,340.00**

## Urban Drainageway Program – Application Form



Project name Ralston Creek Improvements

Project location (attach location map) S 72nd Street and Main Street

Sponsor organization City of Ralston

Sponsor address 5500 S 77th Street

City Ralston State NE ZIP 68127

Contact person Rick Hoppe

Title City Administrator

Email address rhoppe@cityofralston.com Daytime phone 402-610-2720

Description of problem (attach additional sheets as needed)

Stream straightening, degradation, and upstream urbanization has resulted in increased flow velocities leading to channel widening and vertical banks. See attached report for further information.

Proposed solution (attach additional sheets as needed)

Raising the stream bed, splaying back the banks, adding meanders with floodplain benches, and adding grade control structures including riffles and sills. See attached report for further information.

Level of Design      Level 1 ☐      Level 2 ☒      Level 3 ☐

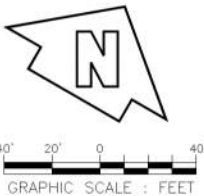
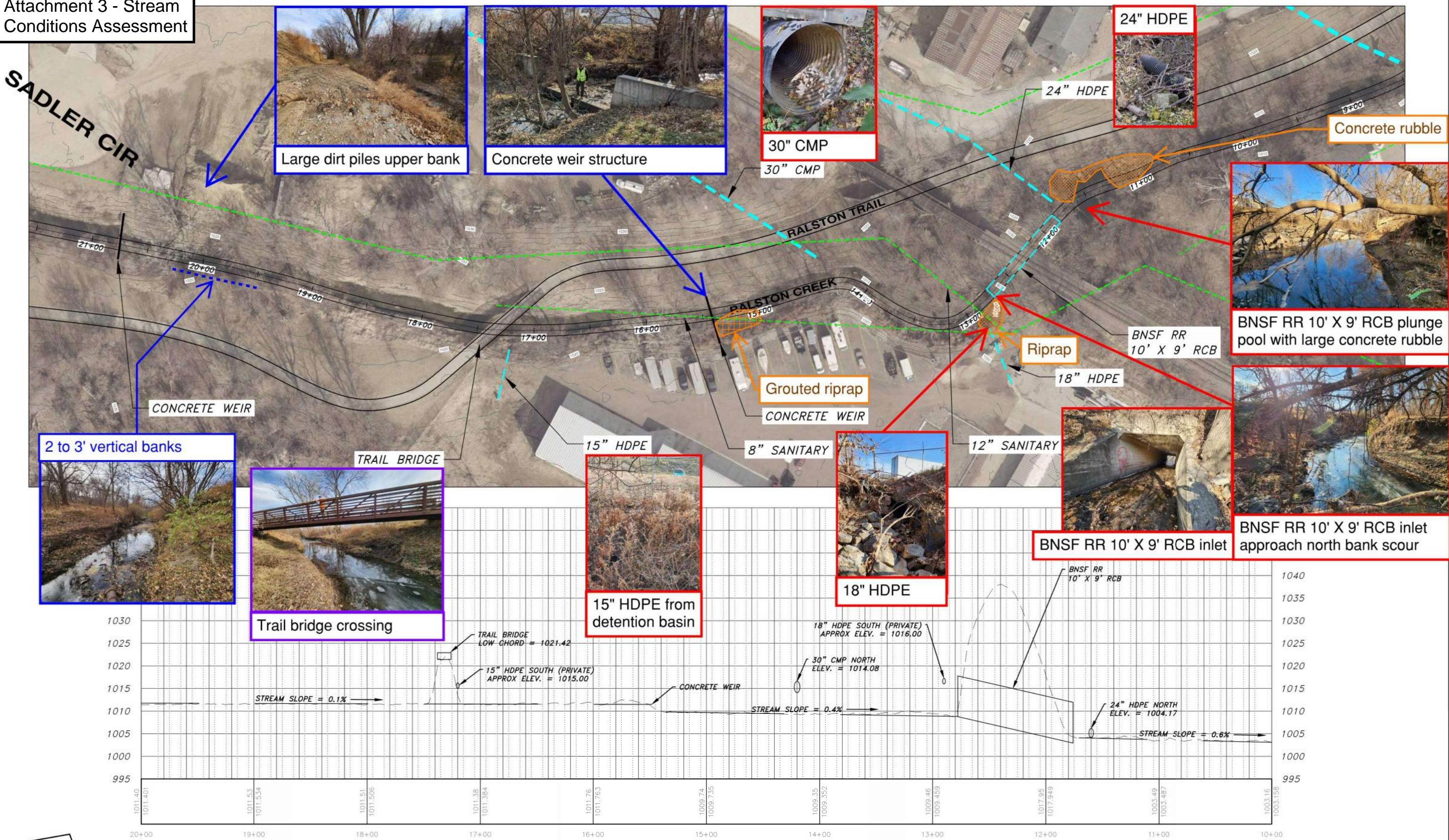
Total estimated cost      \$ 2.0 million      Cost share request      \$ 1.2 million

Richard D. Hoppe  
Signature

2/29/2024  
Date

City Administrator  
Title





REVISIONS	

STREAM CONDITIONS  
PLAN AND PROFILE

RALSTON CREEK  
STREAM IMPROVEMENTS

EMBRIS PROJECT NO. 220047.00



CITY OF RALSTON  
PUBLIC WORKS DEPARTMENT

8220 Serum Avenue, Ralston, Nebraska 68127

ISSUE DATE

DESIGN BY  
AJH  
DRAWN BY  
AJH

SHEET  
1 of 2



# memo

**To:** Rick Hoppe, City of Ralston

**From:** Aaron Hirsh, PE, CFM

**Date:** 02/29/2024

**Subject:** Ralston Creek Improvements – Urban Drainageways Program Application

## Project Summary

Ralston Creek has recently exhibited sloughing banks and overall channel widening, specifically in the portion located between 84th Street and 72nd Street. This has caused ongoing issues for the City of Ralston including the need to routinely clear fallen woody debris throughout the channel as well as sediment accumulation at the box culvert entrance located at 72nd Street. These issues have been caused by urbanization, stream straightening, steep stream slopes, and downcutting – all of which have led to higher flow velocities, increased sediment loading, and accelerated streambank and streambed erosion. The stream condition assessment is found in **Attachment 1** of this document.

To resolve these ongoing stream degradation issues the City is proposing restoration and beautification of the creek through a new public green space located from Burlington Street to 72nd Street. Stream restoration will be accomplished through (a) raising the streambed elevation to increase floodplain connectivity and decrease stream slope, (b) implementing grade control to reduce downcutting and improve habitat variability, (c) meandering the straight channel and splaying back the banks to increase stream habitat accessibility, and (d) introduction of bioengineering on streambanks and stream buffer to improve water quality and aquatic habitat. The improvements that are proposed will accomplish the stated goals of safer bank slopes and improved flow conditions of Ralston Creek.

The conceptual stream restoration plan is described in detail in the section below and displayed in **Attachment 2**. Overall, the conceptual level opinion of probable construction cost (OPCC) for this project was **\$2.00 million** including engineering design, permitting, construction, as well as construction administration. The detailed OPCC can be found in **Attachment 3**.

## Project Funding

The project is pursuing \$1.2 million in funding through the Papio-Missouri River NRD (PMNRD) Urban Drainageway Program to help close existing funding gaps and make the project a reality. The project has previously submitted and been awarded \$300,000 in funding through the Nebraska Department of Environment and Energy (NDEE) administered Section 319(h) grant for non-point source pollution elimination. Currently the NDEE Section 319 Project Implementation Plan (PIP) is in development and will be submitted to the NDEE and EPA for review and approval. The project has also applied for and been awarded \$300,000 in funding through the Nebraska Environmental Trust (NET).

## Conceptual Stream Restoration Plan

The stream restoration activities will be completed in conjunction with the City of Ralston “Hinge” Master Plan (<https://www.cityofralston.com/home/news/ralston-hinge-master-plan>). This conceptual plan as shown in **Attachment 2** begins just upstream of the Burlington Northern Santa Fe (BNSF) railroad culvert including toe rock and bank protection of the bend coming into the culvert. Additionally, the existing 12” sanitary sewer crossing near the BNSF railroad tracks appears to be quite shallow at approximately 2-foot depth, therefore a stream crossing protection similar to the 2023 Lincoln Standard Plan is proposed ([https://app.lincoln.ne.gov/city/ltu/transportation/standard/lsp/pdf/LSP\\_220.pdf](https://app.lincoln.ne.gov/city/ltu/transportation/standard/lsp/pdf/LSP_220.pdf)).

On the downstream side of the BNSF culvert a new plunge pool is recommended to help dissipate high energy flows coming out of the 6.7% sloped culvert. The stream is planned to meander through this entire section with floodplain benches on the inside bends and toe rock and bank stabilization on the outside bends. Five rock riffles and three rock sills are proposed to help control grades including through several new planned bridge crossings including a new pedestrian bridge and new Burlington Street crossing.

Starting near the planned Burlington Street bridge the streambed is proposed to be raised and flattened from the existing 1.6% slope to a 0.3% slope – thereby reducing stream flow velocities through this area. This will be done through the addition of approximately 3-foot of fill. The side slopes are proposed to be 3:1 through the floodplain bench areas and 4:1 on the outside bends to help allow for accessibility to the stream. Finally, a grouted boulder drop structure is proposed at the entrance of the 72<sup>nd</sup> Street culvert to return the raised stream down to the invert of the culvert – an approximate 4-foot drop. This will also help to prevent the culvert from getting silted in thereby increasing its conveyance capacity.

The proposed improvements are intended to be consistent with the Ralston “Hinge” Master Plan and will accomplish the stated goals of safer slopes and improved flow conditions. However, there are also opportunities for added enhancements that could add recreational or educational value to the creek. Stream enhancements such as limestone slab steps as shown in the photo to the right, or limestone boulder crossings allow for the public to interact directly with the creek. These added enhancements should be coordinated with the design of the planned adjacent park area. Although these added stream enhancements will increase the cost of the project, they will be beneficial to public education and involvement.

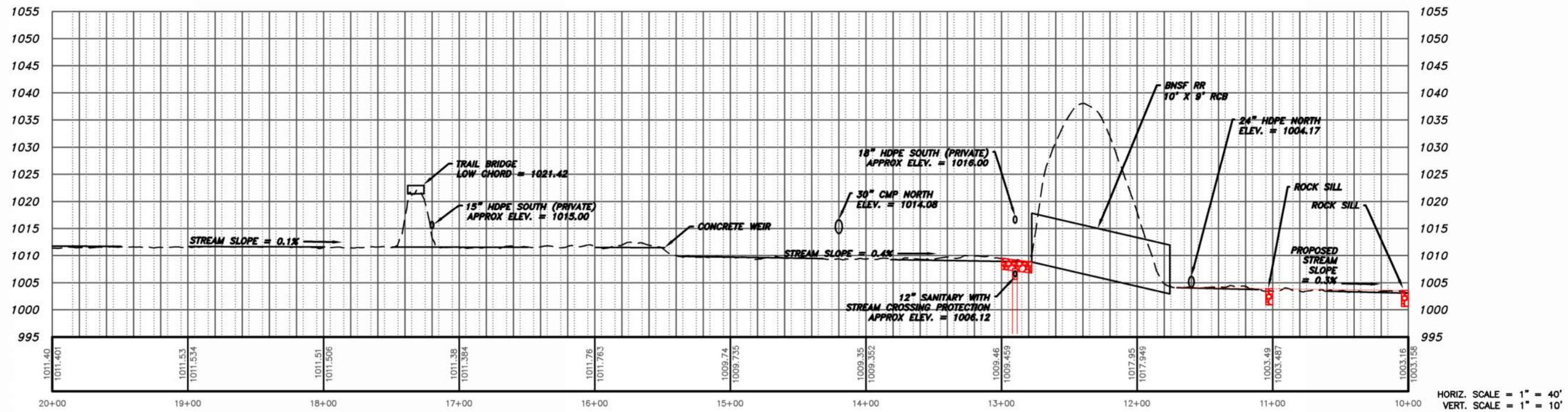
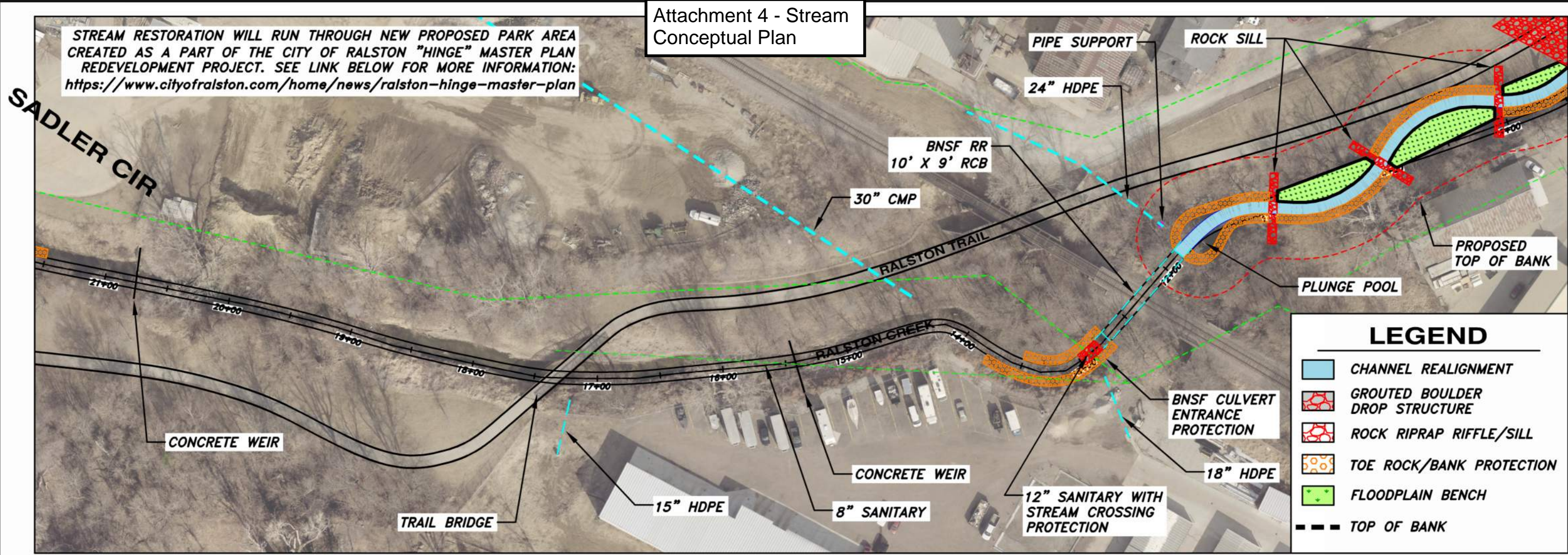


*Tedesco Environmental Learning Corridor, Photo by Aaron Hirsh, 2019.*

Overall, the conceptual level OPCC for the project is **\$2.00 million** including engineering design, permitting, construction, as well as construction administration. This cost estimate does not include building demolition, pavement removal, sewer removal/replacement, or trail removal/reconstruction. It is assumed that these activities will be conducted under the “Hinge” Master Plan redevelopment.



FILENAME: C:\Users\Andrew.Larkin\Embris Group, LLC\Projects - Documents\220047.00 Ralston Creek Stream Restoration\6 CAD\2 Design\Ralston\_Creek\_Concept - Copy.dwg  
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**ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST  
CITY OF RALSTON, NE  
RALSTON CREEK STREAM RESTORATION  
RALSTON CREEK IMPROVEMENTS - BNSF RAILROAD TO 72ND STREET**

<b>LINE ITEM</b>	<b>ITEM DESCRIPTION</b>	<b>BID QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>TOTAL FOR BID ITEM</b>
1	MOBILIZATION/DEMOBILIZATION	1	LS	\$126,711.00	\$126,711.00
2	SWPPP ALLOWANCE	1	LS	\$42,000.00	\$42,000.00
3	ENVIRONMENTAL ALLOWANCE	1	LS	\$42,000.00	\$42,000.00
4	DEWATERING AND SURFACE WATER CONTROL	1	LS	\$42,000.00	\$42,000.00
5	TEMPORARY ACCESS CROSSING	2	EA	\$6,000.00	\$12,000.00
6	TRAFFIC CONTROL	1	LS	\$3,500.00	\$3,500.00
7	CLEARING AND GRUBBING - GENERAL	1	LS	\$72,000.00	\$72,000.00
8	EXCAVATION ON-SITE	2,400	CY	\$20.00	\$48,000.00
9	EXCAVATION HAUL-OFF	6,680	CY	\$35.00	\$233,800.00
10	CONSTRUCT TIMBER PILE PIPE SUPPORT	1	EA	\$5,000.00	\$5,000.00
11	CONSTRUCT SAND FILTER	185	TON	\$80.00	\$14,800.00
12	ROCK RIFFLE/SILL (TYPE B/C RIP-RAP MIX)	1,650	TON	\$100.00	\$165,000.00
13	TOE ROCK AND BANK PROTECTION (TYPE B/C RIP-RAP MIX)	1,245	TON	\$100.00	\$124,500.00
14	CONSTRUCT SHEET PILE	600	SF	\$50.00	\$30,000.00
15	CONSTRUCT GROUTED BOULDER DROP STRUCTURE	1	LS	\$250,000.00	\$250,000.00
16	REMOVE TOPSOIL	8,135	SY	\$6.00	\$48,810.00
17	PLACE TOPSOIL	8,135	SY	\$6.00	\$48,810.00
18	INSTALL ROLLED EROSION CONTROL, TYPE II	8,135	SY	\$4.00	\$32,540.00
19	INSTALL SEEDING - TYPE NATIVE SEED	7,365	SY	\$3.00	\$22,095.00
20	INSTALL SEEDING - TYPE CHANNEL SEED	770	SY	\$5.00	\$3,850.00
21	LIVE STAKES	400	EA	\$20.00	\$8,000.00
22	REPLACEMENT TREES	23	EA	\$800.00	\$18,400.00

**Total Opinion of Construction Cost      \$1,393,816.00**

**Construction Contingency (20%)      \$278,764.00**

**TOTAL CONSTRUCTION COST      \$1,672,580.00**

**Engineering Design, Permitting and Construction Administration (20%)      \$334,516.00**

**TOTAL PROJECT COST      \$2,007,096.00**

*Note: Building demolition, pavement removal, sewer removal/replacement, and trail removal/reconstruction are not included in this estimate as this will be conducted under the "Hinge" Master Plan redevelopment. See following link for more information:  
<https://www.cityofralston.com/home/news/ralston-hinge-master-plan>*

## Recreation Area Development Program – Application Form



Project name Bennington Disc Golf Course

Project location (attach location map) Doug Nelson Sports Complex, BAL, Logemann Park

Sponsor organization City of Bennington

Sponsor address 15505 Warehouse St

City Bennington State Ne ZIP 68007

Contact person Derek Brechbill - Jake Conley

Title Public Works Asst. Director - Public Works Director

Email address derekpwd@benningtonne.com Daytime phone (531) 284-6015

Description of project (attach additional sheets as needed)

Addition of disc golf course near creekline following south side of  
parks / ball fields. Expansion of Logemann Park for additional basket  
locations. Permanent shelter and portable restrooms on pad.

Total estimated cost \$ 38,237

Cost share request \$ 19,118.50

*x Derek Brechbill*  
Signature

3/11/24  
Date

Public Works Asst. Director  
Title

---

**City of Bennington**

15505 Warehouse St  
Bennington, NE 68007  
(402) 238-2375



# Doug Nelson DGC

28<sup>th</sup> February 2024

## OVERVIEW

Includes initial plans and phasing for an 18 hole disc golf course. Seeking approval for a phase 1 plan for fiscal year of 2023-24 to include:

- 9 Hole initial course installation (Teepads, Baskets, Maintenance)
- Additional recreational amenities around existing park
  - Pocket Prairies, Pollinator Gardens, Picnic Shelter, portable restroom
- Clearing, creating and rerouting existing natural pathways
- Additional tree and turf areas to west to prepare for additional 9 Holes

## SPECIFICATIONS

Artificial turf teepads to be installed to industry standards, allowing modifications as necessary as course grows to a full 18 or alleviate the traffic flow of patrons to recreational spaces. Baskets to be placed in a semi permanent manner with sleeves flush to the ground to allow for removal and maintenance as to industry and local standards. Crushed rock pathways cleared and installed to alleviate flow of traffic from play areas. Natural log benches added along play areas for viewing and rest areas. Concrete pad poured near basketball courts with area for portable restroom containment and pavillion. Ground to the west will be converted from farmland to general use recreational and native turf areas with future use designated for additional 9 basket locations. Trees to be planted accordingly.

---

## Budget

Description	Notes	Amount
Artificial Turf		\$1,850.00
Composite Forms		\$975.00
Baskets	12 Baskets, DD Veteran	\$5,748.00
Powder Coating		\$500.00
Signage	Posts, Signs, Hardware	\$1,480.00
Aggregates	1/8" Clean Lime, Fill Dirt	\$2,500.00
Grass Seed		\$535.00
Trees, Shrubs	Equipment, plants	\$2,580.00
Culvert		\$3,650.00
Pavillion	Yardistry 12'x20 Gazebo	\$3,300.00
Pathways & Pads	Crushed Aggregate, Concrete	\$4,500.00
Portable Restrooms	Per season	\$350.00
Kifco B110 Water Reel		\$5,269.00
Misc	Labor, Engineering Fees, Subcontracting	\$5,000.00
		<b>\$38,237.00</b>

## Timeline

1. Grade and seed farmland reclamation areas to west of ball fields. Install 40-50 donated trees in south corridor. Grade and seed around trees in the south Logemann Park subsection with a wildflower and native grass mix to south of maintained turf. Irrigate throughout the year as necessary to encourage best possible success of vegetation with Kifco B110 Water Reel with the existing city funded water tank system.
  - a. Establish and maintain turf through this fiscal year allowing for expansion late 2024 - early 2025 once the area is deemed more viable as a recreation area.
2. Install baskets and preliminary signage around the initial 9 hole installation.



- 
- a. Early installation of the baskets will allow for the city and other jurisdictions to monitor and adjust locations of basket locations to the most favorable locations for patrons as well as governing bodies.
    - b. Allows for marking and maintenance of a naturalized trail system between basket and teepad locations.
  3. Installation of paved walkway and picnic shelter pavilion to north of basketball area along the 4th and 5th basket / teepad locations. Picnic shelter to have anchor points for portable restrooms to be installed April-October for public use.
  4. Finalize basket locations, begin installation of teepad areas.
    - a. To be done post pavilion installation to accommodate necessary changes as needed.
  5. Finalize trail system with native prairie pockets throughout for visual interest, limit need for weekly maintenance, as well as soil erosion control.
    - a. Culvert installation across washout area on the west side of ball fields.
  6. Farmland reclamation (Logemann Park) area once established will have a series of mowed trails to allow patrons to hike and recreate in the meantime as we prepare to expand our course to 18 holes in the newly reclaimed areas.

## **Locations (*Comprehensive Plan Feb 12, 2018*)**

### **Bennington Athletic League (B.A.L.) Sports Complex *approx. 20 acres***

The BAL Sports Complex is located west of 156th Street between North 2nd Street and the Big Papillion Creek. The complex features five ball fields of varying size, a basketball court, a covered play set, batting cages, two concession and restroom facilities, and open play areas. The Bennington City Maintenance Building is also located on the site. A paved trail connects many of the fields and facilities to the pedestrian bridge spanning the Big Papillion Creek, effectively linking the complex to Johns-Bohn Park and the Bennington Lake Trail.

### **Logemann Park *approx. 12 acres***

Logemann Park consists of 12 acres donated by the Darrel and CoeLeta Logemann family in 2017. While currently undeveloped, plans for the park consist of soccer fields, baseball fields, and parking to serve the new facilities as well as the existing B.A.L. Sports Complex.

### **Recreation Facility, Amenity, and Service Standards**

Based upon public input and policies, the 2008 Bennington Parks and Recreation Master Plan provides basic requirements and optimal facilities or services of each park classification in Bennington's jurisdiction. These requirements/options are divided into three categories, including:

- These standards are to serve as a guide for the City of Bennington. It is the responsibility of the city to determine which facilities, amenities, and services are or are not feasible in existing and proposed parks. The Parks and Recreation Master Plan provides an analysis of each existing park facility in Bennington based on these standards.

**Doug Nelson DGC**  
Proposed 9 Hole Disc Golf Course

**Legend:**

- Tenth Hole\*
- Hole 1 300'
- Hole 2 185'
- Hole 3 180'
- Hole 4 210'
- Hole 5 178'
- Hole 6 200'
- Hole 7 205'
- Hole 8 180'
- Hole 9 182'
- Practice Basket
- Proposed Pavilion

**Hole Locations and Distances:**

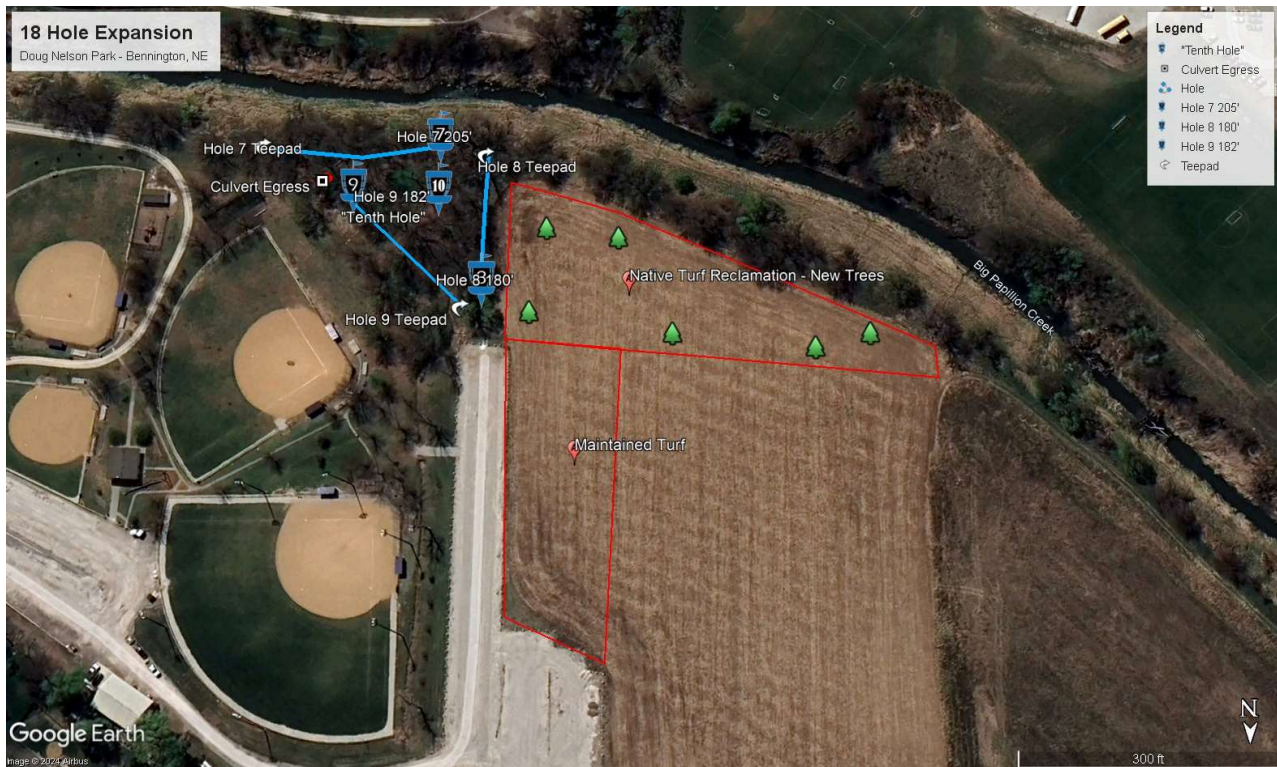
- Hole 1 300'
- Hole 2 185'
- Hole 3 180'
- Hole 4 210'
- Hole 5 178'
- Hole 6 200'
- Hole 7 205'
- Hole 8 180'
- Hole 9 182'

**Other Features:**

- Bennington Park
- Bennington Soccer Complex
- Bennington Baseball Softball Complex
- Lynn R. Pruess Field
- Total Walking Distance 4090'
- Proposed Pavilion
- Practice Basket
- Culvert Egress
- Natural Log Bench
- Crushed Pathway
- Big Rapids Creek

**Scale:** 200 ft

Logemann Park







**PAPIO**  
MISSOURI RIVER  
NATURAL RESOURCES DISTRICT


## RECREATION AREA DEVELOPMENT PROGRAM APPLICATION FORM

Project Name:	Bennington Park and Trail Master Plan design		
Project Location: (attach location map)	Bennington City limit and 1 mile zone jurisdiction. Map included		
Sponsor Organization:	City of Bennington		
Sponsor Address:	PO Box 221		
City/State/Zip:	Bennington, NE 68007		
Contact Person:	John Bohrer		
Title:	City Director		
Daytime Phone:	402-880-4526	<input type="checkbox"/> Home	<input type="checkbox"/> Business <input checked="" type="checkbox"/> Mobile
E-mail Address:	publicworks@benningtonne.com		

### Description of project (attach additional sheets as needed)

The City's current park and recreation master plan was prepared in 2008 and does not adequately address active mobility (walking, biking, etc.). In addition, due to annexation and through coordination with Douglas County, the city of Bennington's ETJ has increased significantly north of Highway 36 which needs to be included in the plan. The city will contract with the appointed city engineer (JEO Consulting Group) to complete the master plan update. As part of the update, the master plan will be rebranded as " Bennington Active Mobility and Recreation Master Plan" .

Total Estimated Cost: \$ 55,000 Cost Share Request: \$ 21,000

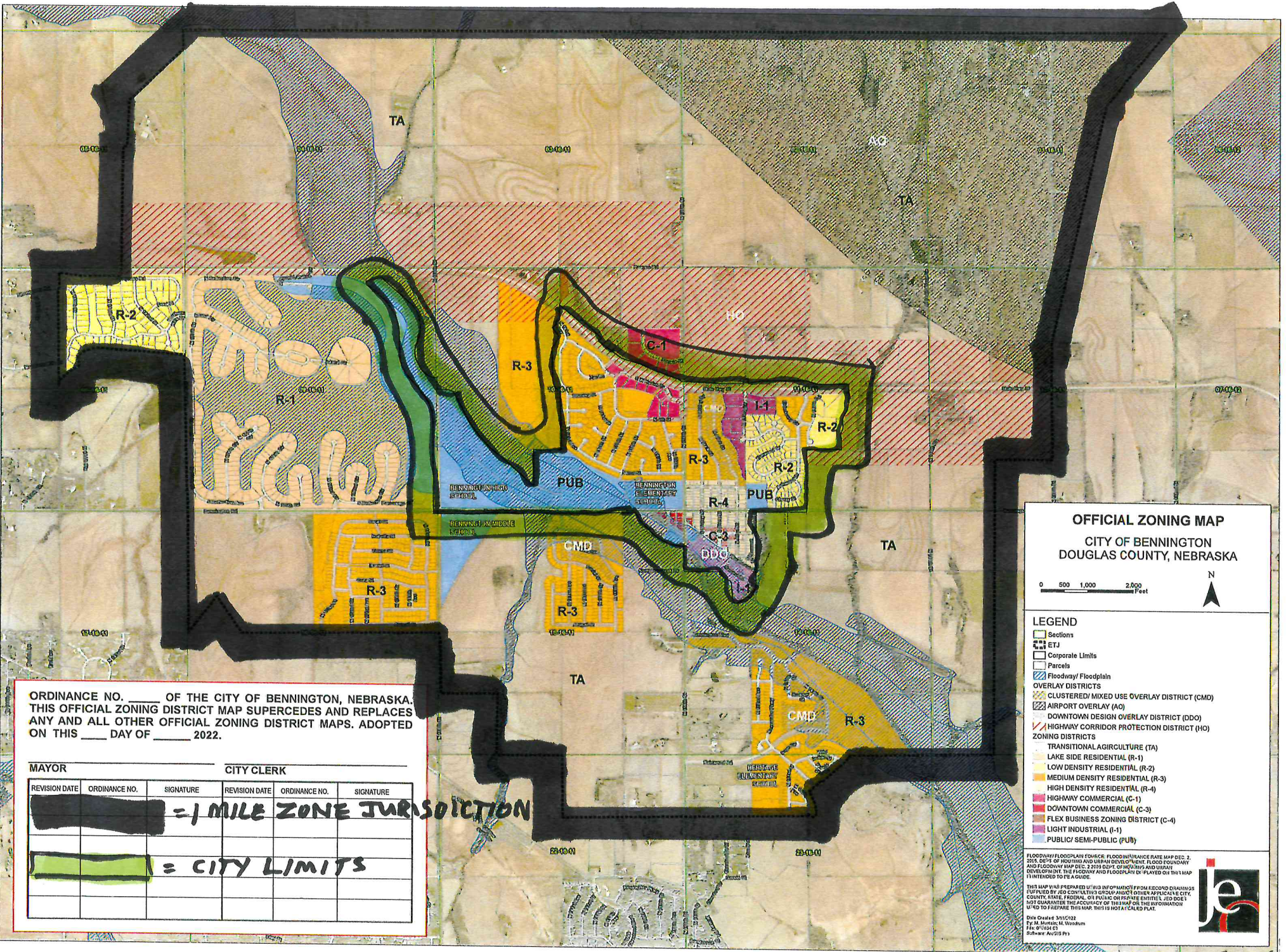
  
Signature

Date: March 21, 2024

City Director

Title





ORDINANCE NO. \_\_\_\_\_ OF THE CITY OF BENNINGTON, NEBRASKA.  
THIS OFFICIAL ZONING DISTRICT MAP SUPERCEDES AND REPLACES  
ANY AND ALL OTHER OFFICIAL ZONING DISTRICT MAPS. ADOPTED  
ON THIS \_\_\_\_ DAY OF \_\_\_\_ 2022.

MAYOR			CITY CLERK		
REVISION DATE	ORDINANCE NO.	SIGNATURE	REVISION DATE	ORDINANCE NO.	SIGNATURE

= 1 MILE ZONE JURISDICTION

= CITY LIMITS

# OFFICIAL ZONING MAP CITY OF BENNINGTON DOUGLAS COUNTY, NEBRASKA

0 500 1,000 2,000 Feet



## LEGEND

- Sections
- ETJ
- Corporate Limits
- Parcels
- Floodway/ Floodplain
- OVERLAY DISTRICTS
  - CLUSTERED/ MIXED USE OVERLAY DISTRICT (CMD)
  - AIRPORT OVERLAY (AO)
  - DOWNTOWN DESIGN OVERLAY DISTRICT (DDO)
  - HIGHWAY CORRIDOR PROTECTION DISTRICT (HO)
- ZONING DISTRICTS
  - TRANSITIONAL AGRICULTURE (TA)
  - LAKE SIDE RESIDENTIAL (R-1)
  - LOW DENSITY RESIDENTIAL (R-2)
  - MEDIUM DENSITY RESIDENTIAL (R-3)
  - HIGH DENSITY RESIDENTIAL (R-4)
  - HIGHWAY COMMERCIAL (C-1)
  - DOWNTOWN COMMERCIAL (C-3)
  - FLEX BUSINESS ZONING DISTRICT (C-4)
  - LIGHT INDUSTRIAL (I-1)
  - PUBLIC/ SEMI-PUBLIC (PUB)

FLOODWAY/FLOODPLAIN FORCE: FLOOD INSURANCE RATE MAP DEC. 2, 2014, DEPT. OF HOUSING AND URBAN DEVELOPMENT, FLOOD EVIDENCE AND FLOODWAY MAP DEC. 2 2014 DEPT. OF HOUSING AND URBAN DEVELOPMENT. THE FLOODWAY AND FLOODPLAIN BY PLAYS ON THE MAP IS LIMITED TO A GUIDE.  
THIS MAP WAS PREPARED USING INFORMATION FROM RECORD DRAWINGS SUPPLIED BY THE CONSULTING GROUP AND/OR OTHER APPLICABLE CITY, COUNTY, STATE, FEDERAL, OR PUBLIC OR PRIVATE ENTITY. AND DOES NOT GUARANTEE THE ACCURACY OF THIS MAP OR THE INFORMATION USED TO PREPARE THIS MAP. THIS IS NOT A CALCD PLAN.  
Date Created: 3/15/22  
By: M. Munksgaard, M. Woodrum  
JLS 01/24/22  
Submittal: 3/15/22





## Recreation Area Development Program – Application Form



Project name Village of Homer 150 Year Anniversary Splash Pad Project

Project location (attach location map) Parcel 220004404, next to Village park and ball fields

Sponsor organization Village of Homer

Sponsor address 110 John Street, PO Box 386

City Homer State NE ZIP 68030

Contact person Melissa Rushing

Title Clerk/Treasurer


Email address villageofhomer@outlook.com Daytime phone 402-698-2155

Description of project (attach additional sheets as needed)

I have attached all information.

Total estimated cost \$ 48,118.58

Cost share request \$ 24,059.29

  
Signature

03/22/2024  
Date

Clerk/Treasurer  
Title



# Location Map



## **VILLAGE OF HOMER**

110 John St, PO Box 386 Homer NE 68030  
402-698-2155 [villageofhomer@outlook.com](mailto:villageofhomer@outlook.com)

### **Recreation Area Development Program Application**

#### **Village of Homer 150 Year Anniversary Splash Pad Project**

Description of Project: Purchase Parcel 220004404 (\$30,000.00), remove all trees and stumps (\$11,000), put fence with gates around area (\$7,118.58). I have included attachments for this.

This lot is next to the Village of Homers Park and Ball Fields.

#### Breakdown of cost Estimate:

Parcel 220004404- \$30,000.00

Tree and Stump Removal-\$11,000.00

Fence and gates-\$7,118.58

Total Cost Estimate-\$48,118.58

Cost Share Request-\$24,059.29

If you have any question please contact Melissa Rushing at 402-698-2155.

Thank You





101 Grandy Drive, Sioux City, IA 51106  
Phone: 712-255-1986 | Fax: 712-258-5817

Melissa Rushing  
Village of Homer  
Splash Pad Fencing  
Homer, NE 68030

Melissa,

Thank you for taking the time to show me the new splash pad project in Homer. The quote to install approximately 212' of 6' black chain link fencing with one (1) 10' double drive gate and two (2) 4' walk gates with panic bars would be as follows:

Material and Labor:        \$7,118.58

If you have any questions please do not hesitate to contact me. Thank you.

Rick Dominowski  
Owner, Cardis Fence

**PLEASE CHECK YOUR LOCAL CODES  
CARDIS FENCE CO. IS NOT RESPONSIBLE FOR FENCE  
PERMITS OR FOR LOCATING PROPERTY PINS**

## Recreation Area Development Program – Application Form



Project name Lee Valley Spray Ground & Improvements

Project location (attach location map) 10605 Charles Street, Omaha, NE

Sponsor organization City of Omaha Parks, Recreation, and Public Property

Sponsor address 1819 Farnam Street, Suite 701

City Omaha State NE ZIP 68183

Contact person John Williams

Title Park Planner III

Email address john.williams@cityofomaha.org Daytime phone 402.444.5943

Description of project (attach additional sheets as needed)

**See attached.**

Total estimated cost \$ 521,210.00

Cost share request \$ 50,000

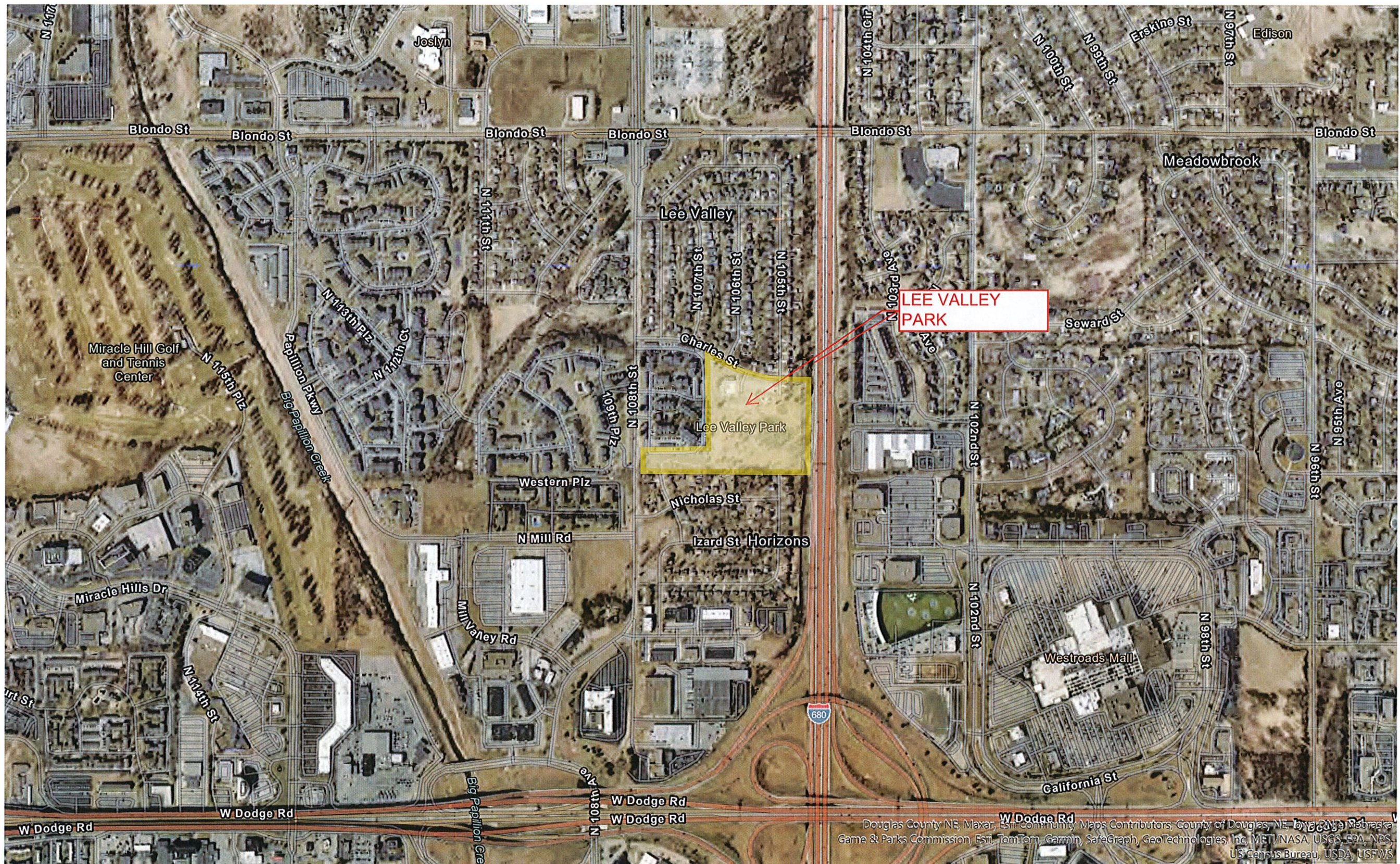
  
Signature

MARCH 21, 2024  
Date

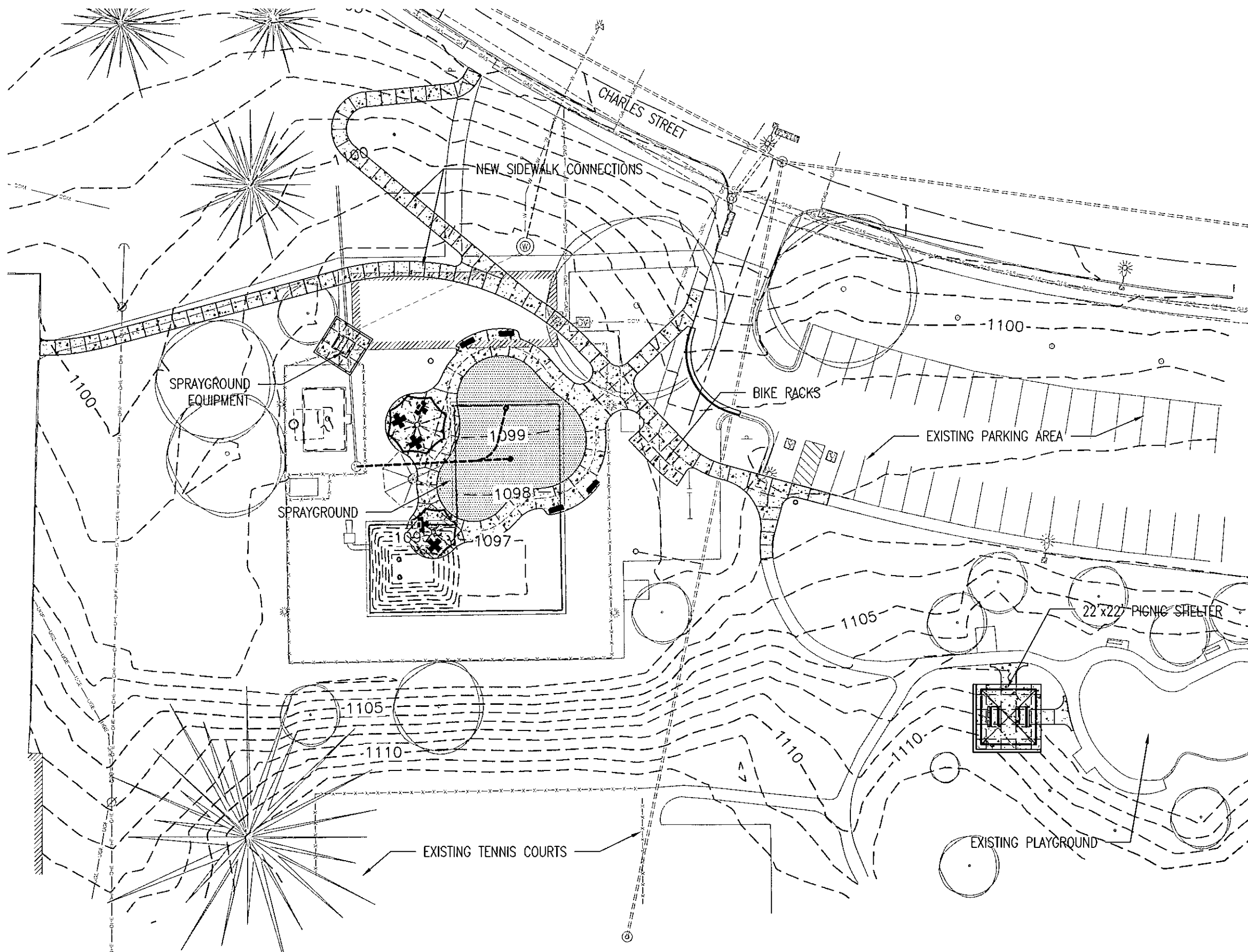
Park Planner III

Title



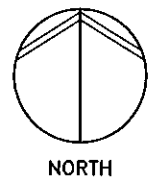






# SITE PLAN

SCALE: 1" = 40'- 0"



LEE VALLEY PARK  
SPRAYGROUND & PARK IMPROVEMENTS  
10605 CHARLES STREET  
OMAHA, NEBRASKA

DESIGNED BY	X.S.A.	
CHECKED BY	X.S.A.	
DATE	12.22.2019	
REV	DATE	DESCRIPTION

© 2019 CITY OF OMAHA

SITE PLAN

# LEE VALLEY PARK

## SPRAY GROUND

3.20.2024

ITEM	QTY.	UNIT	UNIT PRICE	TOTAL
Excavation	1.00	LS	\$3,000.00	\$3,000.00
Spray Equipment + Freight	1.00	LS	\$150,258.00	\$150,258.00
O&P on Equipment	1.00	LS		\$22,538.70
Installation of Equipment	1.00	LS		\$37,564.50
Sprayground Pad w/Aquaflex	2,652.00	SF	\$38.00	\$100,776.00
Concrete walkways	6,121.00	SF	\$8.50	\$52,028.50
Sun Shades	1.00	EA	\$5,950.00	\$5,950.00
O&P on Sun Shades	1.00	EA		\$892.50
Sun Shade Footings	2.00	EA	\$2,250.00	\$4,500.00
Install Sun Shades	2.00	EA	\$2,250.00	\$4,500.00
Tables	4.00	EA	\$2,000.00	\$8,000.00
Benches	4.00	EA	\$1,750.00	\$7,000.00
Bike Loops	5.00	EA	\$750.00	\$3,750.00
Install Bike Loops	5.00	EA	\$200.00	\$1,000.00
Plumbing	1.00	LS	\$25,000.00	\$25,000.00
Electrical	1.00	LS	\$7,500.00	\$7,500.00
Finish grade & Seed	37,170.00	SF	\$0.25	\$9,292.50
Erosion Matting	4,130.00	SY	\$3.75	\$15,487.50
Inlet w/connection ex. Pipe	1.00	LS	\$3,000.00	\$3,000.00
Drywell inlet	1.00	LS	\$1,500.00	\$1,500.00
Concrete pad/walkways for shelter	830.00	SF	\$10.00	\$8,300.00
Site grading for shelter	1.00	LS	\$2,500.00	\$2,500.00
22'x22' shelter	1.00	LS	\$15,669.00	\$15,669.00
O&P on shelter				\$2,350.35
Shelter freight	1.00	LS	\$3,640.00	\$3,640.00
Shelter Install	1.00	LS	\$6,500.00	\$6,500.00
Shelter retaining wall	120.00	SF	\$50.00	\$6,000.00
<b>SPRAYGROUND SUB-TOTAL</b>				<b>\$508,497.55</b>
<b>General Conditions @ 2.5%</b>				<b>\$12,712.44</b>
<b>PROJECT TOTAL</b>				<b>\$521,209.99</b>

## Recreation Area Development Program – Application Form



Project name Zorinsky Lake Inclusive Playground Site Work

Project location (attach location map) S. 156th & F Street, Omaha, NE

Sponsor organization City of Omaha Parks, Recreation, and Public Property

Sponsor address 1819 Farnam Street, Suite 701

City Omaha State NE ZIP 68183

Contact person John Williams

Title Park Planner III

Email address john.williams@cityofomaha.org Daytime phone 402.444.5943

Description of project (attach additional sheets as needed)

See attached.

Total estimated cost \$ 369,835.00

Cost share request \$ 50,000

  
Signature

MARCH 22, 2024  
Date

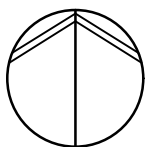
Park Planner III  
Title





## ZORINSKY ACCESSIBLE PLAYGROUND – VICINITY PLAN

SCALE: NOT TO SCALE



NORTH





## Zorinsky Lake All Inclusive Park

1164320-01-09-01 • 05.23.2023



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<b>ZORINSKY INCLUSIVE PLAYGROUND - SITE WORK</b>				
Preliminary Opinion of Probable Construction Costs				
Dept. of Parks, Recreation and Public Property				
20-Mar-24				
Description	Quantity	Unit	Unit Cost	Item Cost
<b>DEMOLITION</b>				
Demo existing playground**	1	LS	\$4,000.00	\$4,000
Demo existing perimeter curbing**	230	LF	\$10.00	\$2,300
Demo existing walkways**	6,138	SF	\$2.50	\$15,345
Remove existing sand**	130	CY	\$30.00	\$3,900
Remove existing picnic shelter**	1	LS	\$5,000.00	\$5,000
Remove existing grills (2)**	2	EA	\$100.00	\$200
Cap and remove existing drinking ftn.**	1	LS	\$500.00	\$500
Remove existing benches**	1	LS	\$1,000.00	\$1,000
<b>SITE WORK</b>				
Demo existing parking paving	1,753	SF	\$3.50	\$6,136
Remove existing round rail fence	1	LS	\$500.00	\$500
Survey and Layout	1	LS	\$6,500.00	\$6,500
Site grading and earthwork - CUT	1,221	CY	\$20.00	\$24,420
Site grading and earthwork - FILL	282	CY	\$25.00	\$7,050
Concrete base - 4" for PIP surfacing	9,929	SF	\$8.00	\$79,432
Concrete curbing	190	LF	\$50.00	\$9,500
Concrete Paving for relocated shelter	1,929	SF	\$8.50	\$16,397
Concrete paving - 5" Sidewalk	10,182	SF	\$8.50	\$86,547
Concrete paving - 6" parking area	1,753	SF	\$9.50	\$16,654
Thickened edge paving	460	LF	\$15.00	\$6,900
Retaining Wall	1,215	SF	\$75.00	\$91,125
Safety Fencing/railing	60	LF	\$75.00	\$4,500
Finish grading and seeding	1	LS	\$12,500.00	\$12,500
Picnic Shelter Footings	6	EA	\$1,000.00	\$6,000
Re-build picnic shelter**	1	LS	\$5,000.00	\$5,000
Wheel Stops	6	EA	\$650.00	\$3,900
Wheel Stop Installataion	6	EA	\$100.00	\$600
ADA Parking Signs	4	EA	\$250.00	\$1,000
Grill @ relocated shelter	1	EA	\$750.00	\$750
Area Inlets	3	EA	\$2,000.00	\$6,000
9" HPDE pipe	240	LF	\$35.00	\$8,400
In-line drains	7	EA	\$500.00	\$3,500
4" / 6" HPDE play area drain pipe	265	LF	\$35.00	\$9,275
Electrical connection**	1	LS	\$3,000.00	\$3,000
Water connection**	1	LS	\$3,000.00	\$3,000
Headwall Construction	3	EA	\$750.00	\$2,250
<b>SUBTOTAL</b>				<b>\$453,080</b>
Deduct PRPP In-Kind work				\$43,245
Additional Imagine Inclusion contribution				\$40,000
<b>TOTAL COSTS</b>				<b>\$369,835</b>
**Denotes work items completed by the City of Omaha and backed out of the budget as in-kind work.				

## Recreation Area Development Program – Application Form



Project name Papillion City Park Redevelopment - Phase 1

Project location (attach location map) 400 W. Lincoln Street

Sponsor organization City of Papillion

Sponsor address 122 E. 3rd Street

City Papillion State NE ZIP 68046

Contact person Tony Gowan

Title Parks and Facilities Director

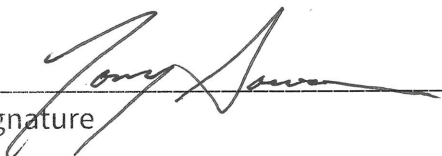
Email address tgowan@papillion.org Daytime phone 402-597-2049

Description of project (attach additional sheets as needed)

**See attached detail letter.**

Total estimated cost \$ 1,500,000.00

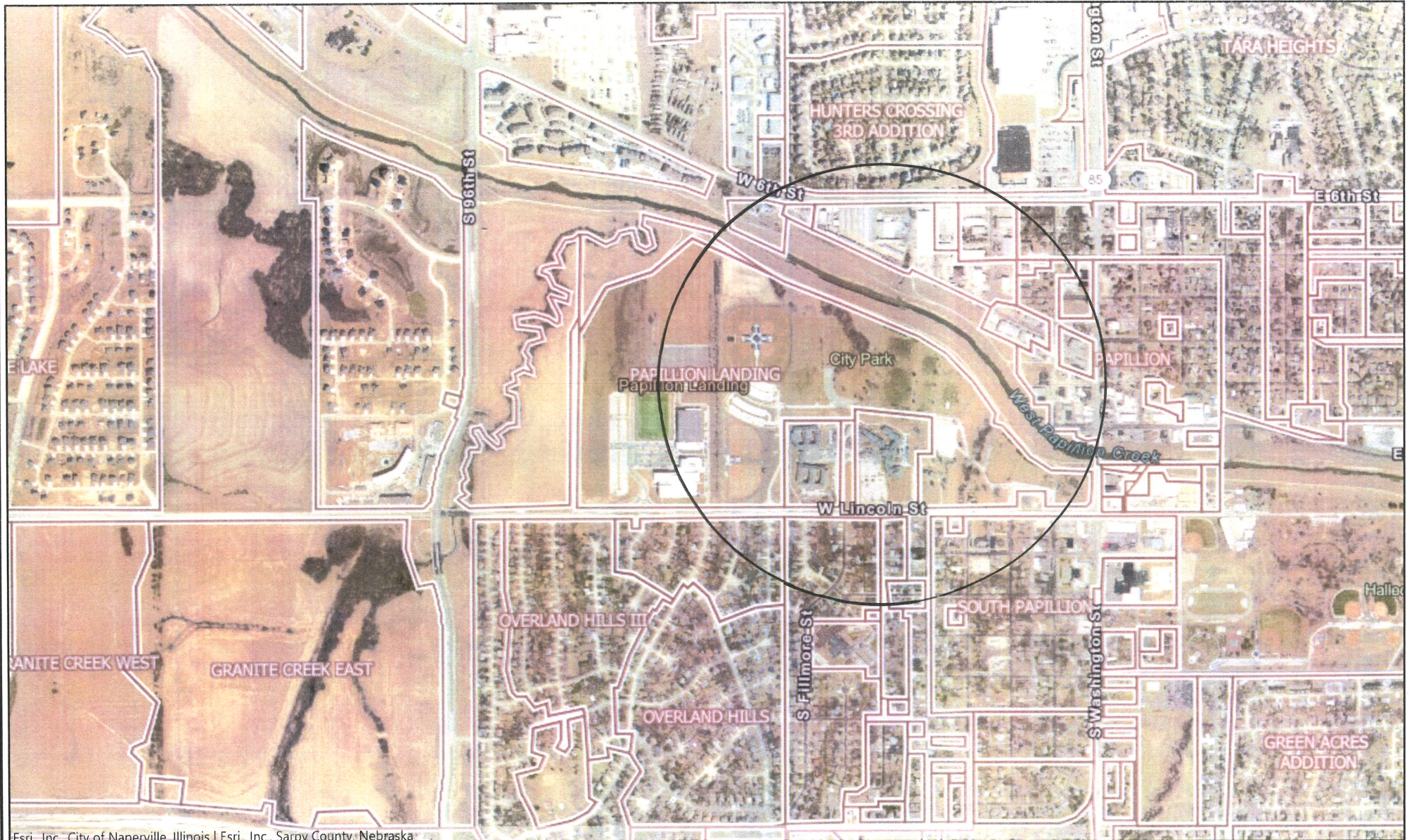
Cost share request \$ 50,000.00

  
Signature

02/09/2024  
Date

Parks and Facilities Director  
Title





Esri, Inc., City of Naperville, Illinois | Esri, Inc., Sarpy County, Nebraska

0 1500 3000  
ft

Map Scale 1: 18056

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the source records and information sources to ascertain the usability of the information.



Notes



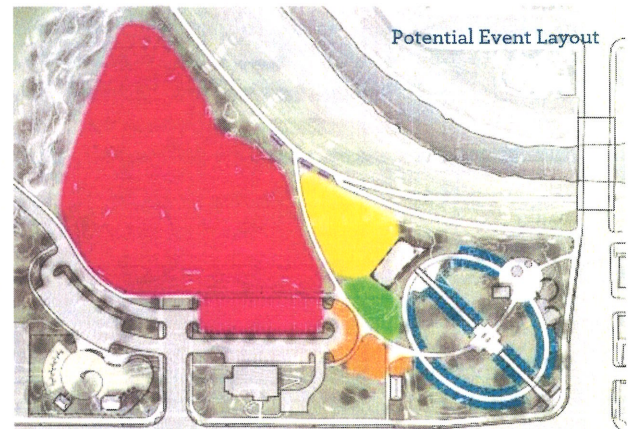
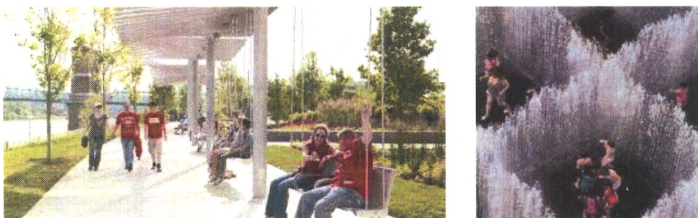




### Legend:

- A. Destination Playground
- B. Decorative Fence
- C. Restroom (2 new, 1 existing)
- D. Picnic Shelter
- E. Park Entrance Sign
- F. Flexible Green Space
- G. Directional Signage
- H. Signature Picnic Shelter/Stage
- I. Large-scale "Porch Swings"
- J. Promenade Walk (10 to 12' Width)
- K. Central Art Piece or Spray Feature
- L. Boyscout Cabin & Small Gathering Plaza
- M. Enhanced Washington St Landscape and Seating Areas with Pedestrian-scale Lighting. Art Display Opportunities
- N. Monument Entrance Sign w/ lighting and attractive plantings at prominent corner
- O. Re-aligned lanes on Bridge to accommodate wider and safer sidewalks connecting to downtown area

The redevelopment of City Park envisions a place that is lively and inviting with signature amenities that add to the daily activity of the park while also supporting special events for years to come. The plan creates connections to points of interest; downtown area, soccer complex, and surrounding neighborhoods. The preservation of quality existing trees aims to preserve the character and attractive qualities of the park. The signature shelter could provide a venue for multiple scale events - facing both northwest and southeast.



- |   |  |   |
|---|--|---|
| <span style="color: red;">■</span> Carnival       | <span style="color: orange;">■</span> Food       | <span style="color: blue;">■</span> Vendor Tents (90) |
| <span style="color: yellow;">■</span> Performance | <span style="color: green;">■</span> Beer Garden |   |





City Park_Playground ONLY	Qty	Unit	Unit Cost	Item Total
Demolition	1	Ls	\$ 70,700	\$ 70,700
Earthwork	1	Ls	\$ 35,400	\$ 35,400
Destination Playground	1280 0	Sf	\$ 60	\$ 768,000
Restroom	1300	Sf	\$ 150	\$ 195,000
Medium Shelter	820	Sf	\$ 150	\$ 123,000
Park Signage	1	Ea	\$ 2,500	\$ 2,500
Concrete Sidewalk	2600	Sf	\$ 8	\$ 20,800
Seatwalls	30	Cy	\$ 1,500	\$ 45,000
Shade Trees	12	Ea	\$ 400	\$ 4,800
Planting Beds	1500	Sf	\$ 21	\$ 31,500
Seeding	0.75	Ac	\$ 2,500	\$ 1,875
Pedestrian Pole Lights	2	Ea	\$ 6,000	\$ 12,000
Parking Lot (Asphalt)	34	Stall	\$ 4,000	\$ 136,000
Decorative Fence	475	Lf	\$ 125	\$ 59,375
Site Furnishings	4	Ea	\$ 3,500	\$ 14,000
Subtotal				#####

\$1,519,950

\* CITY PARK PLAYGROUNDS RELOCATION  
TO THE EMPTY LOTS WEST OF  
AMERICAN LEGION AT 300 W. LINCOLN.  
INCLUDES PARKING IMPROVEMENTS  
AS WELL. ALL PRICES ESTIMATES  
FROM VIRED PER THE 2021  
PARKS AND RECREATION MASTER  
PLAN DESIGN.

Recreation Area Development Program – Application Form

Project name South Sioux City Basketball courts

Project location (attach location map) Covington and Scenic Parks, Map attached

Sponsor organization City of South Sioux City

Sponsor address 1615 1st Avenue

City South Sioux City State NE ZIP 68776

Contact person Gene Maffit

Title Parks Director

Email address gmaffit@southsiouxcity.org Daytime phone 402-494-7540

Description of project (attach additional sheets as needed)

Refer to attached

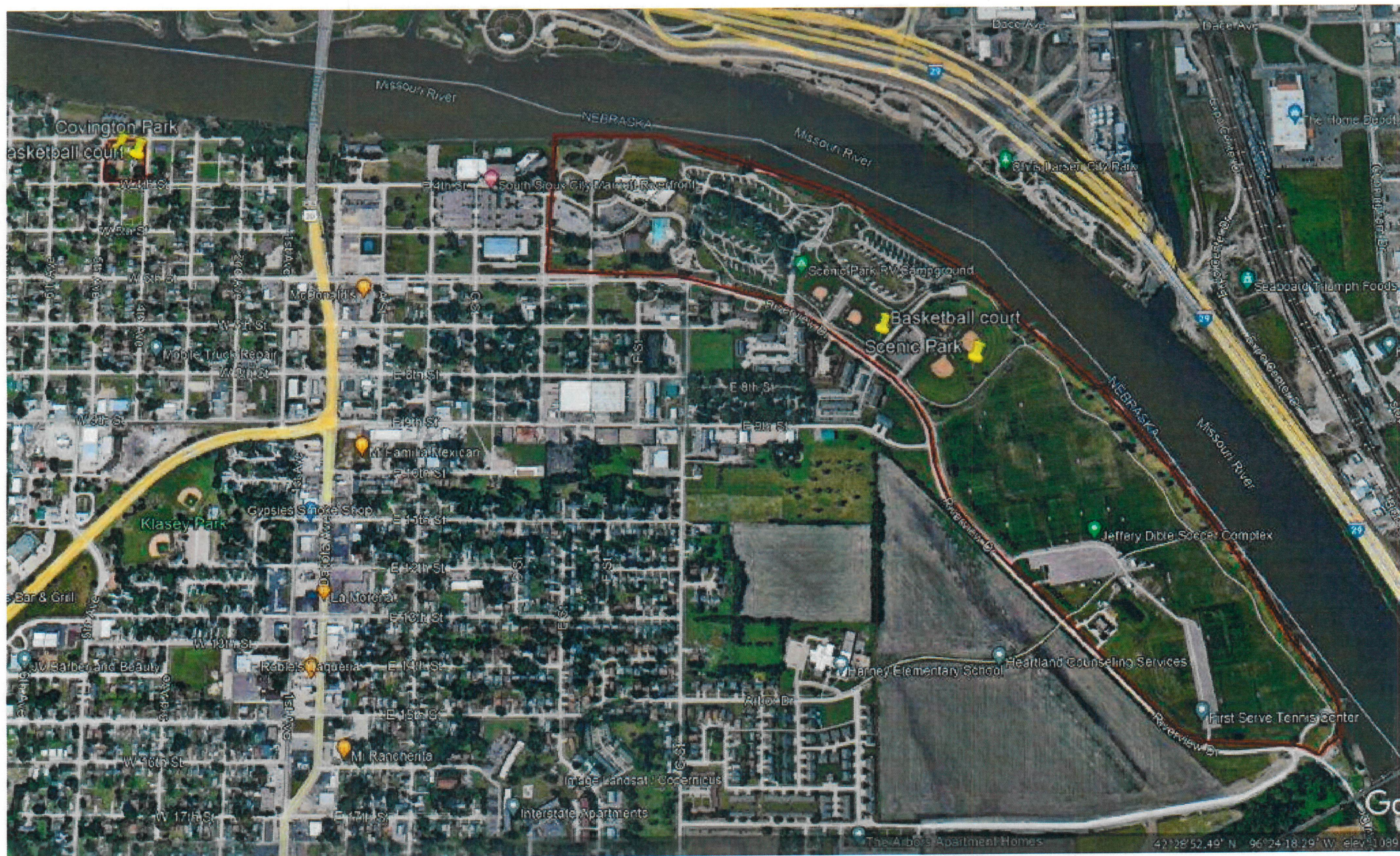
Total estimated cost \$ 105,840.00 Cost share request \$ 50,000.00

Pat Somskey  
Signature

3/12/2024  
Date

Pat Somskey, Grant Administrator  
Title







**South Sioux City – FY2025 Papio Missouri NRD Recreation Grant Proposal**  
**Basketball Courts at Covington and Scenic Parks**

**Description**

South Sioux City Park's Department proposes to replace deteriorated basketball courts at Covington Park while installing a new court at Scenic Park. The parks are located in the northwest and northeast of the city offering easy access to the public.

1. Covington Park is a 2.0-acre park serving an older residential neighborhood that is in the community's far northwest corner between west 3<sup>rd</sup> and west 4<sup>th</sup> Streets and 4<sup>th</sup> and 5<sup>th</sup> Avenue. The park covers an entire block and contains a variety of recreational features. This park includes a medium-sized group picnic shelter, a sand volleyball court and a full-sized basketball court. The playground is new in 2024 with a variety of play structures. Two portable toilets, one of which is accessible, provide sanitary facilities. Clusters of mature shade trees occur around the park's perimeter. On-street parking stalls are available along all four sides of the park for visitors. The park has a connecting trail to the city's trail system.

The basketball court requires a tear-out due to poor and deteriorating conditions and will be replaced with new 3" asphalt court surface (104' x 56') with a 12" subgrade prep. Basketball hoops and posts and pavement markings will complete this park project.

2. Scenic Park is a 159-acre, situated between Riverview Drive and the Missouri River from "D" Street to the BNSF railroad and is the city's flagship park. The park provides a variety of recreation opportunities and has been developed over several decades. The park's west end serves a neighborhood park for the adjacent residential area composed of large apartment units and single family homes. The Y (formerly YMCA) manages the South Sioux City outdoor pool, two pickle ball courts, tennis courts, provide recreational and youth development opportunities for Siouxland. Scenic Park's campground is a full-service, year round campground offering 135-RV sites, 4-cabins, and 6-tent sites. The park offers 5-softball/baseball fields, 15-soccer fields and miles of walking/biking trails. The park is home to the regional First Serve Tennis Center to the south offering two connected buildings with three tennis courts each. Both heated and air conditioning, the courts are used for collegiate tennis, instruction, high school matches, pickle ball, all with conditioned hard-court surface.

Missing from this park and much in-demand are outside basketball courts accessible to the public. The project proposes to install a new 3" asphalt court surface (104x56") with associated basketball hoops/poles and pavement markings along with 12" associated subgrade preparation. The location will be to the north where the RV-camp is, accessible to apartment complexes.

A map showing the locations of the two parks in relation to the city is offered.

**Funding Request:**

An attached itemized budget offers an engineer's estimated cost total of \$105,840.00. NRD share at the allowable limited of \$50,000 is 47% of the total budget. City cost share is \$55,840 or 53%.



**Preliminary Opinion of Probable Cost**  
**Replace Asphalt Court at Covington, New Asphalt Court at Scenic Parks South Sioux City, NE**  
**February 28, 2024**

NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	MOBILIZATION	LS	1	\$ 15,000.00	\$ 15,000.00
2	BASKETBALL HOOPS	EA	4	\$ 3,000.00	\$ 12,000.00
3	PAVEMENT MARKINGS	LF	1,400	\$ 5.00	\$ 7,000.00
4	TEAR OUT/DISPOSE COVINGTON COURT	LS	1	\$ 15,000.00	\$ 15,000.00
5	3" ASPHALT COURT SURFACE (104' X 56')	TN	165	\$ 140.00	\$ 23,100.00
6	12" SUBGRADE PREP	SY	975	\$ 5.00	\$ 4,875.00
SUBTOTAL					\$76,975.00
CONTINGENCY (10%)					\$7,697.50
<b>CONSTRUCTION SUBTOTAL</b>					<b>\$84,672.50</b>
SURVEYING, ENGINEERING, & CONSTRUCTION SERVICES (25%)					\$21,168.13
<b>TOTAL PROJECT COST</b>					<b>\$105,840.00</b>

NRD	47%	50,000
City Share	53%	55,840
<b>Total</b>	<b>100%</b>	<b>105,840</b>

## Recreation Area Development Program – Application Form

Project name City of Valley Park Renovation - Phase 1

Project location (attach location map) 300 W. Vass St

Sponsor organization City of Valley

Sponsor address 203 N Spruce St, PO Box 682

City Valley State NE ZIP 68064

Contact person Doug Eggen

Title Public Works Superintendent

Email address deggen@valleyne.org Daytime phone 402-359-2251 x 313

Description of project (attach additional sheets as needed)

**Please see attached.**

Total estimated cost \$ 1,503,600.00 Cost share request \$ 50,000.00

Doug Eggen  
Signature

3-6-2024  
Date

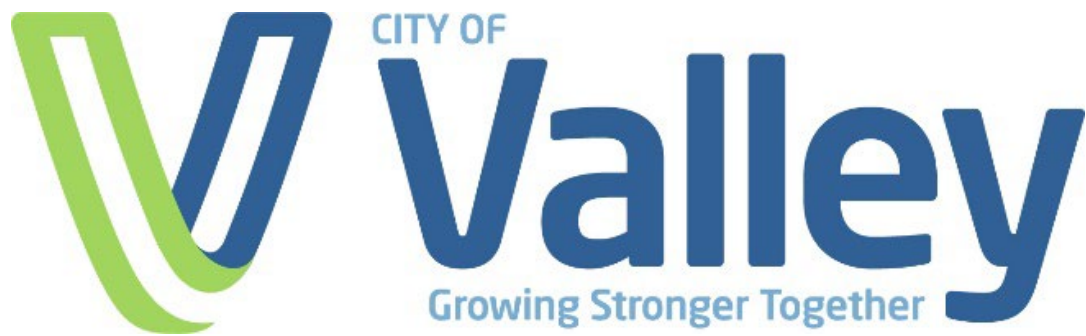
Public Works Superintendent  
Title



# VALLEY CITY PARK MASTER PLAN - ALTERNATE B








The City of Valley Nebraska began the process of planning for the renovation of our main city park in 2023. A community facilities and amenities survey was conducted with the input of various local organizations and the assistance of MAPA. The purpose of the survey was to get an idea of the things that are important to the residents of Valley and attempt to accommodate those priorities. A summary of the survey results concerning City Park Improvements and other Amenities is attached to this submission.

The City of Valley has been working with JEO engineering on a comprehensive park plan that would be completed in three phases. We are currently refining the details for Phase 1 which we would like to start construction of in August of 2024 and be completed during the summer of 2025. I have attached a map showing a tentative plan and the three phases involved. I have also included an initial engineer's conceptual opinion of probable cost sheet prepared in August of 2023 for phase 1. As the phase map shows, we would be adding several sports courts (pickleball, basketball and sand volleyball) as well as a trails system and various picnic shelters. We are currently identifying trees that might be approaching the end of their life cycle so that we can plan for the placement of the various improvements without sacrificing healthy trees and vegetation. Our plan includes adding additional trees, landscaping and irrigated turf to enhance the appearance and functionality of the park.

We would like to replace our outdated picnic tables and trash receptacles as well as construct several new picnic shelters with full access to all our residents.

The City of Valley would appreciate the Papio Missouri River Natural Resource District's consideration for financial assistance with this worthwhile project.



ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST	
PROJECT NAME: Valley Park	
PROJECT LOCATION: Valley, Nebraska	
JEO PROJECT NO. 221849.00	

Date Prepared:  
August 25, 2023

**ESTIMATE OF QUANTITIES**

Item #	Description	Unit	Quantity	Unit Price	Total
<b>Phase 1</b>					
1.	Mobilization	LS	1	\$40,000.00	\$40,000
2.	Bonding and Insurance	LS	1	\$8,000.00	\$8,000
3.	Clearing and Grubbing	LS	1	\$20,000.00	\$20,000
4.	Demo Existing Pavement	LS	1	\$75,000.00	\$75,000
5.	Demo Existing Playground	LS	1	\$10,000.00	\$10,000
6.	Earthwork	LS	1	\$75,000.00	\$75,000
7.	Concrete Parking Lot and Drives (does not include RV Pkg)	SY	2,000	\$75.00	\$150,000
8.	Concrete Walks	SF	20,000	\$8.00	\$160,000
9.	Entry Feature	EA	1	\$20,000.00	\$20,000
10.	Basketball Court	LS	1	\$40,000.00	\$40,000
11.	Pickleball Courts (no lights)	LS	1	\$175,000.00	\$175,000
12.	Sand Volleyball Court	LS	1	\$15,000.00	\$15,000
13.	Park Shade Structure	EA	2	\$20,000.00	\$40,000
14.	Turf and Sub Surface Irrigation	SF	180,000	\$1.25	\$225,000
15.	Landscape (Trees, Shrubs, etc)	LS	1	\$75,000.00	\$75,000
16.	Utilities: Ped Lighting	LS	1	\$125,000.00	\$125,000
Construction Subtotal					\$1,253,000
Contingency 20%					\$250,600
<b>Total Opinion of Construction Cost</b>					<b>\$1,503,600</b>

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.

**Alternates**

1.	Pickleball Court Lights	LS	1	\$75,000.00	\$75,000.00
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Flood Mitigation Planning and Mapping Assistance Program –  
Application Form



Project name Northeast Tekamah Urban Drainage Master Plan

Project location (attach location map) Northeast quadrant of Tekamah, Nebraska. See Attachment #2

Sponsor organization City of Tekamah, Nebraska

Sponsor address P.O. Box 143, 1126 S. 13th Street

City Tekamah State NE ZIP 68061

Contact person Jane A. Walford

Title Mayor

Email address JaneAWalford@outlook.com Daytime phone 402-870-0699

Description of the proposed project

The Northeast Tekamah Urban Drainage Master Plan will be a comprehensive evaluation of the drainage system serving the northeast quadrant of the community. From this analysis, the City Engineer can recommend a series of alternatives to improve the efficacy of the drainage system.

Total estimated cost \$ 77,500

Cost share request \$ 38,750

Jane Walford  
Signature

March 14, 2024  
Date

Mayor  
Title





p: 402.374.2521 • f: 402.808.4521

• P.O. Box 143 • Tekamah, NE 68061

March 14, 2024

Eric Williams, Natural Resources Planner  
Papio Missouri River Natural Resources District  
8901 S. 154<sup>th</sup> Street  
Omaha, NE 68138

RE: Papio NRD Flood Mitigation Planning and Mapping Assistance Program  
City of Tekamah, Nebraska  
Northeast Tekamah Urban Drainage Master Plan

Mr. Williams,

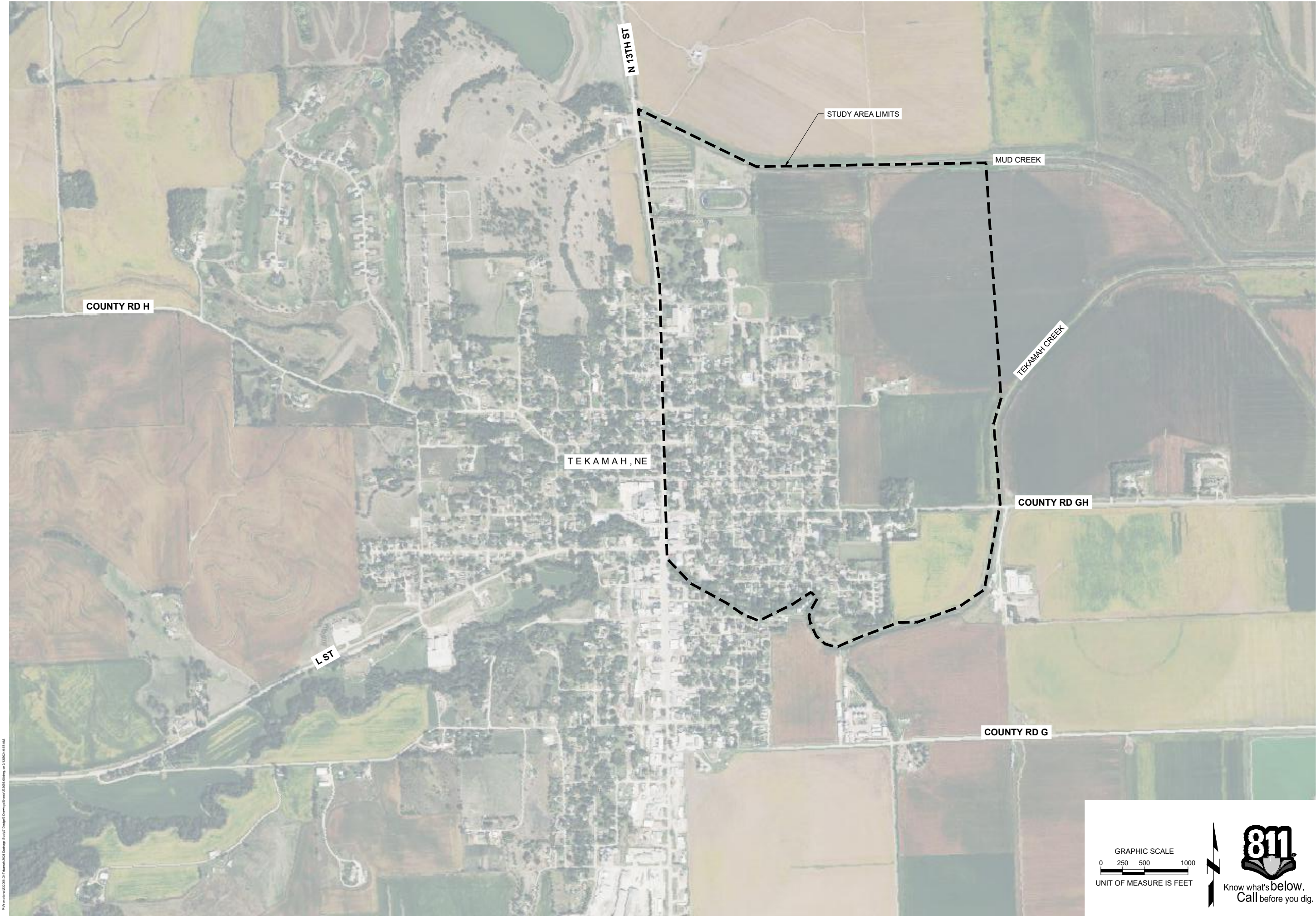
The City of Tekamah is requesting \$38,750 in Flood Mitigation Planning and Mapping Assistance Program funds through the Papio NRD to cost share the Northeast Tekamah Urban Drainage Master Plan. This area is plagued with localized flooding because it lacks storm sewers. Storm water accumulates in lower-lying areas (M Street) for hours or even days before eventually soaking in or evaporating. The constant saturation of the ground beneath the street (subgrade) has caused M Street to deteriorate.

This comprehensive evaluation will assess the existing drainage system east of Highway 75/13<sup>th</sup> Street and north of Tekamah Creek. From this analysis, the City Engineer (JEO Consulting Group, Inc. (JEO)) will be able to identify deficiencies within the system and recommend effective mitigation alternatives (structural and non-structural) to improve the efficacy of the drainage system and to reduce the threat and severity of localized flooding.

Attachment #1 is a Resolution passed by the Tekamah City Council on March 14, 2024 agreeing to the terms and conditions of the Papio NRD Flood Mitigation Planning and Mapping Assistance Program.

Furthermore, via this letter, the city hereby pledges \$38,750 in local funds to the proposed study.





TEKAMAH DRAINAGE STUDY

STUDY AREA

PRELIMINARY  
NOT FOR  
CONSTRUCTION  
0%  
DATE:  
2/13/2024  
PRELIMINARY

PROJECT NO.	232056.00
DATE	2/13/2024
DRAWN BY	
FILE NAME	232056.00.dwg
FIELD BOOK	
FIELD CREW	
SURVEY FILE NO.	
PLAN IN HAND INITIALS DATE	
70 PERCENT REVIEW INITIALS DATE	
95 PERCENT REVIEW INITIALS DATE	
REVISIONS	

Attachment #2

GRAPHIC SCALE

0 250 500 1000

UNIT OF MEASURE IS FEET

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





*9<sup>th</sup> & M Street looking east after an August 2021 rainfall event.*

*Source: Google Earth Pro, 2024.*



**PAPIO**  
MISSOURI RIVER  
NATURAL RESOURCES DISTRICT

## TRAILS ASSISTANCE PROGRAM APPLICATION FORM

Project Name: Connecting Fort Calhoun with Safe Transportation Alternatives

Project Location: map attached  
(attach location map)

Sponsor Organization: City of Fort Calhoun

Sponsor Address: 110 S. 14th Street

City/State/Zip: Fort Calhoun, NE 68023

Contact Person: Deb Sutherland

Title: City Administrator

Daytime Phone: 402-468-5303 ☐ Home ☒ Business ☐ Mobile

E-mail Address: administrator@fortcalhoun.org

Description of the proposed project (attach additional sheets as needed):

7,426 LF of 10 foot-wide trail length and 4,295 LF of 5 foot-wide sidewalk length.  
Please see attached project description for more details.  
Fort Calhoun's (TAP) Transportation Alternative Program application sent separately for reference.

Total Estimated Cost: \$ 690,377.00 Cost Share Request: \$ 345,189.00

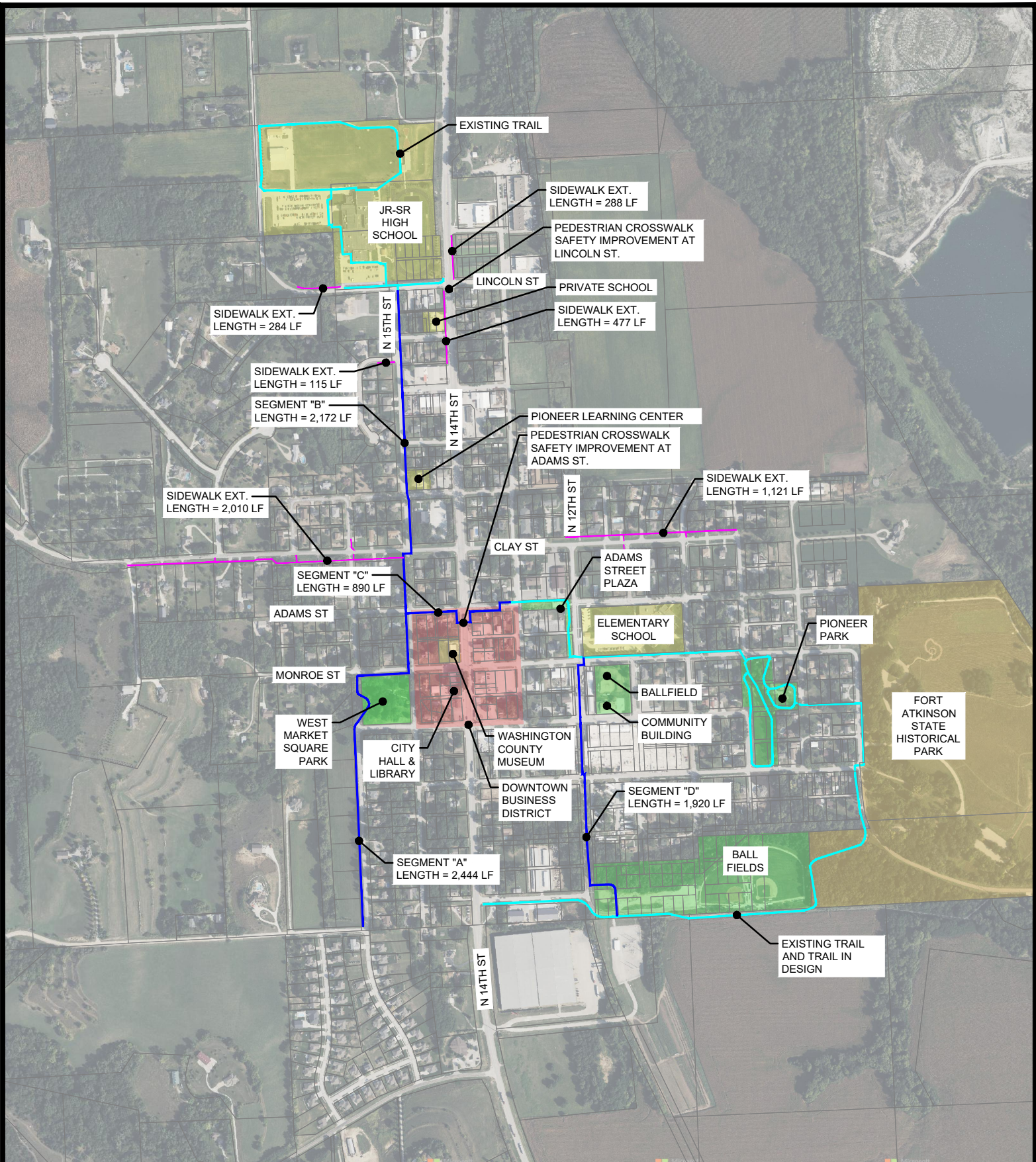
*Michel Roberson*  
Signature

Date: February 28, 2024

Fort Calhoun Mayor

Title





EXISTING TRAIL	10,688 LF	PROPOSED SIDEWALK	4,295 LF
TRAIL IN DESIGN (EST. 2024 CONST.)	2,126 LF		
PROPOSED TRAIL	7,426 LF		

TOTAL TRAIL WITH PROJECT 20,240 LF



# **FORT CALHOUN** CONNECTING FORT CALHOUN WITH SAFE TRANSPORTATION ALTERNATIVES

ATTACHMENT A -  
PROJECT LOCATION

SHEET  
1 / 1





Good Life. Great Journey.

## DEPARTMENT OF TRANSPORTATION

State Headquarters  
1500 Nebraska Parkway  
PO Box 94759  
Lincoln, NE 68509-4759  
Communication Office: 402-479-4512  
[dot.nebraska.gov](http://dot.nebraska.gov)



Jim Pillen, Governor

## FOR IMMEDIATE RELEASE

### Nebraska Department of Transportation Congratulates 13 Nebraska Communities for Receiving 2023 “Transportation Alternatives Project” Funds

*\$50 million in federal grants will improve mobility, provide commuting and recreation options*

July 28, 2023 (Lincoln, Neb.) – Thirteen Nebraska communities were named recipients of a combined \$50 million in federal grant awards as part of the 2023 Transportation Alternatives Project (TAP) Federal Grant Program, according to the Nebraska Department of Transportation (NDOT). This is the largest amount funded in Nebraska since the program’s inception.

Created in 1991, this competitive grant program is administered by the U.S. Federal Highway Administration (FHWA) and helps local communities fund a variety of smaller-scale infrastructure projects that support alternate modes of transportation, such as safe routes to school, recreational trails, traffic improvements, and Complete Streets projects. These projects can be both on- and off-road facilities for pedestrians, bicyclists, and other non-motorized forms of transportation.

The 13 TAP grant awardees receiving these funds include:

- Midtown Medical Center Bikeway Connection, City of Omaha
- Fremont FEVR Rail to Trail Project, City of Fremont
- Cowboy Trail Surfacing, Rushville to mile marker 400, Nebraska Game and Parks Commission
- **Connecting Fort Calhoun with Safe Transportation Alternatives, City of Fort Calhoun**
- Beatrice Homestead Trail Extension – Phase I, City of Beatrice
- Westside Connecting Trail, City South Sioux City
- Elkhorn River Trail Bridge, Papio-Missouri River Natural Resource District
- Grand Island West Connector Trail, City of Grand Island
- Schram Spur N-370 Undercrossing and Trail Segment, City of Papillion
- Winnebago Childcare Trail and Roundabout, Winnebago Tribe of Nebraska
- River Road Connector Trail Project, City of Blair
- Western Douglas County Trail, Douglas County
- Kevin Brown Educators Memorial Trail, Village of Taylor

#MORE#





**Attachment I - Cost Estimate**  
**Summary of Opinions of Cost**

	Total Project	TAP	City 20% Share
Total Project Cost - Segment A	\$ 805,615	\$ 644,492	\$ 161,123
Total Project Cost - Segment B	\$ 1,010,025	\$ 808,020	\$ 202,005
Total Project Cost - Segment C	\$ 373,139	\$ 298,511	\$ 74,628
Total Project Cost - Segment D	\$ 725,233	\$ 580,187	\$ 145,047
Total Project Cost - Sidewalk Gaps	\$ 537,875	\$ 430,300	\$ 107,575
<b>Total with Sidewalks</b>	<b>\$ 3,451,887</b>	<b>\$ 2,761,509</b>	<b>\$ 690,377</b>



**PAPIO**  
MISSOURI RIVER  
NATURAL RESOURCES DISTRICT

## TRAILS ASSISTANCE PROGRAM APPLICATION FORM

Project Name:	Westview Arboretum Trail Construction		
Project Location: (attach location map)	OPS Westview High School 15800 Summit Plz., Bennington, NE 68007		
Sponsor Organization:	Omaha Public Schools		
Sponsor Address:	3215 Cuming St		
City/State/Zip:	Omaha, Ne 68131		
Contact Person:	Ken Juhl		
Title:	Administrator of Schoolhouse Planning		
Daytime Phone:	402-510-5545	<input type="checkbox"/> Home <input checked="" type="checkbox"/> Business <input type="checkbox"/> Mobile	
E-mail Address:	kenneth.juhl@ops.org		

Description of the proposed project (attach additional sheets as needed):

The project will construct handicap accessible concrete trails to allow all students of the Omaha Public School District to utilize the 4.6 acre Westview Arboretum as an outdoor classroom and learning lab. The trails will also be open to the public and have informational signage developed by the students in the Sustainability Pathways that will guide visitors through plants and ecosystem of the arboretum.

Exhibit A : Cost Summary  
Exhibit B : Implementation Schedule  
Exhibit C : Location Vicinity Map  
Exhibit D : Arboretum Illustrative plans and programing

Total Estimated Cost: \$ 180,624 Cost Share Request: \$ 90,312

Ken Juhl

Digitally signed by Ken Juhl  
DN: C=US, E=kenneth.juhl@ops.org, O=Omaha Public  
Schools, OU=Schoolhouse Planning, CN=Ken Juhl  
Date: 2024.03.22 13:22:09-05'00'

Date: 3/22/24

Signature

Administrator of Schoolhouse Planning

Title



## Exhibit C



Vicinity Map - Westview Arboretum Trail -Exhibit C

Omaha Public Schools Westview High School -15800 Summit Plz. - Bennington, NE 68007



# Exhibit A

## Opinion of Probable Cost

### WestView High School Arboretum - Main Walk Cost Opinion

Design Firm: Big Muddy Workshop, Inc.

October 17, 2023

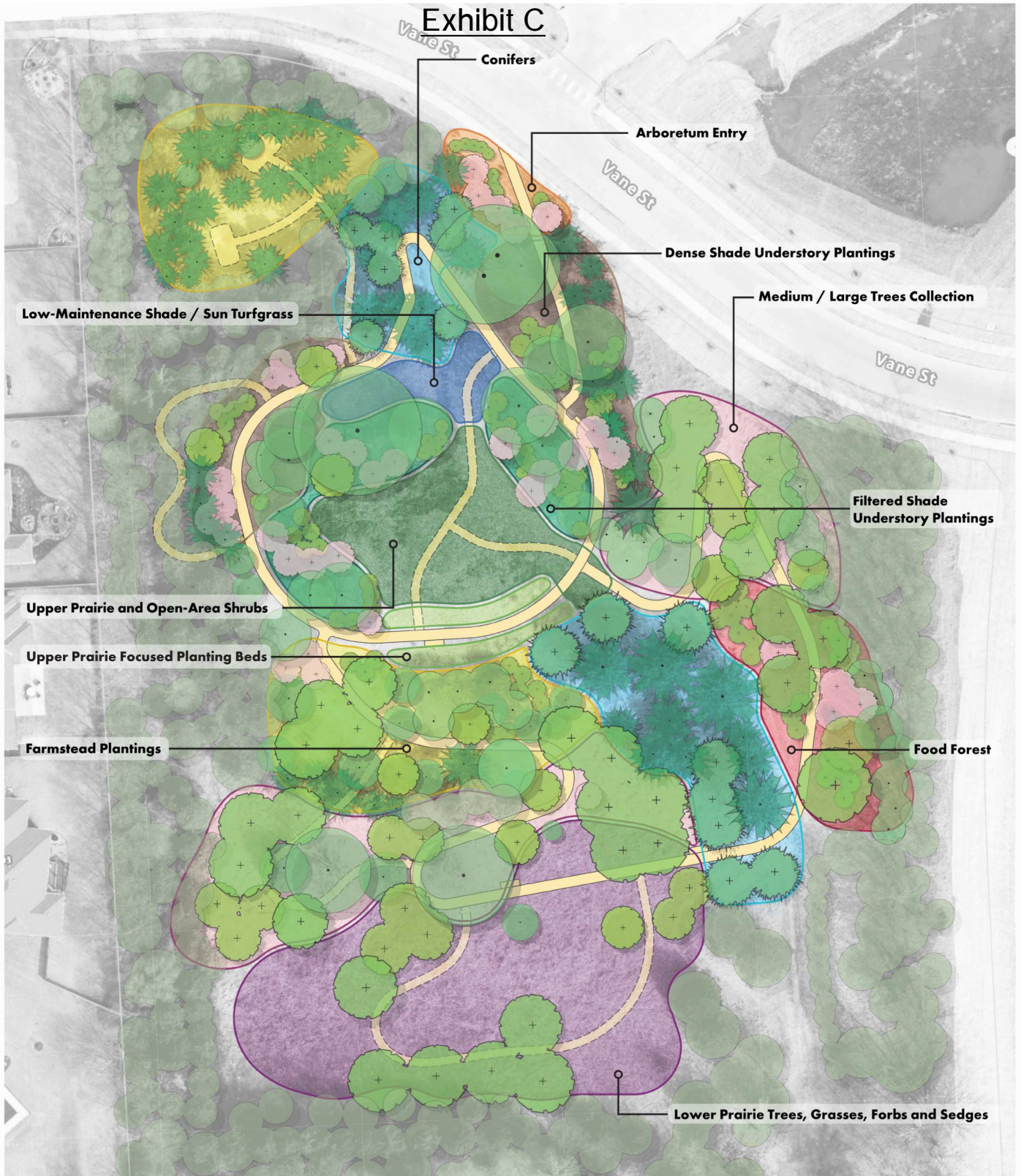
BMW Project Number: #1024

Filename: OPS WestView\_High School\_Main\_Walk\_Cost Opinion\_10-17-23 - Single Phase.xlsx

ITEM	QTY.	UNIT	UNIT COST	ITEM TOTAL
<b>Site Grading</b>				
<u>Site Preparation &amp; Removals</u>				
Mobilization/demobilization & general conditions	1	Allow	\$18,000.00	\$20,000
Silt fence	600	LF	\$5.00	\$3,000
Remove trees and vegetation	6	EA	\$650.00	\$3,900
				<u>\$26,900</u>
<u>Site Grading</u>				
Strip and stockpile topsoil	2,350	SY	\$2.85	\$6,698
Excavation	140	CY	\$8.00	\$1,120
Import soil and place fill	323	CY	\$20.00	\$6,460
Spread topsoil and finish grade	1,540	SY	\$1.50	\$2,310
Cut 5" depth topsoil for trail bed & spread on shoulder	113	CY	\$10.00	\$1,130
Subgrade preparation for pavement	810	SY	\$4.00	\$3,240
				<u>\$20,958</u>
Construction Costs - Main Walk				\$47,858
15% Project Contingency				\$7,179
<b>Grading construction cost with contingency</b>				<b>\$55,036</b>
<b>Walk Paving</b>				
<u>Walk Pavement Grading</u>				
Cut 5" depth topsoil for trail bed & spread on shoulder	113	CY	\$10.00	\$1,130
Subgrade preparation for pavement	810	SY	\$4.00	\$3,240
				<u>\$4,370</u>
<u>Main Walk Pavement</u>				
Concrete walk pavement - 5" thick	7,275	SF	\$9.00	\$65,475
				<u>\$65,475</u>
<u>Seeding and Erosion Control</u>				
Turfgrass permanent seed - narrow long areas	1,540	SY	\$1.50	\$2,310
Erosion Control Blanket	1,540	SY	\$2.60	\$4,004
				<u>\$6,314</u>
Construction Costs - Main Walk				\$76,159
15% Project Contingency				\$11,424
<b>Walk construction with contingency</b>				<b>\$87,583</b>
<b>Design &amp; CA Fees</b>				
Topographic Survey - completed & paid for by Schoolhouse Planning - \$2,310				
Final Design Bidding & CA - Big Muddy proposal				\$31,140
Grading CD Bid & CA			\$12,475	
Paving - Phase 1 - CD Bid & CA Package			\$9,535	
Paving - Phase 2 - CD Bid & CA Package			\$9,130	
Construction Staking - grading -RW proposal				\$2,115
Construction Staking - walk pavement - RW Proposal - single phase				\$3,000
Subgrade Compaction Testing - allowance				\$750
Concrete Testing - allowance				\$1,000
				<u>\$38,005</u>
<b>Total Construction Costs &amp; Fees - Single Phase Project</b>				<b>\$180,624</b>



# Exhibit C



## Plant Legend:

Food Forest	Conifers	Upper Prairie Focused Planting Beds	Existing Tree Mass	New Shrub
Understory Plantings (Full sun to light filtered shade)	Arboretum Entry	Upper Prairie & Open-Area Shrubs	Existing Deciduous Tree	New Ornamental Tree
Understory Plantings (Light filtered shade to full shade)	Medium & Large Tree Collection	Lower Prairie Trees, Grasses, Forbs and Sedges	Existing Coniferous Tree	New Deciduous Tree
Farmstead Plantings	Low-Maintenance Shade & Sun Turfgrass			New Coniferous Tree

## Westview High School Arboretum

Master Plan





**PAPIO**  
MISSOURI RIVER  
NATURAL RESOURCES DISTRICT

## TRAILS ASSISTANCE PROGRAM APPLICATION FORM

Project Name: Pioneer View - Trail Connection

Project Location:  
(attach location map) S 66th Street and Centennial Road, Papillion, NE

Sponsor  
Organization: Pioneer View (SID 305 Sarpy County)

Sponsor Address: 10250 Regency Cir #300

City/State/Zip: Omaha, NE 68114

Contact Person: Jeff Spiehs, Nathan Hack

Title: Senior Land Planner, Environmental Scientist

Daytime Phone: (402) 496-2498 ☐ Home ☒ Business ☐ Mobile

E-mail Address: jeff.spiehs@lamprynearson.com; nathan.hack@lamprynearson.com


Description of the proposed project (attach additional sheets as needed):

Pioneer View is requesting a 50% cost share match for a trail improvement and connection project within the Pioneer View Subdivision in Papillion, Sarpy County, NE.

Please see attached documents:

- narrative
- site map/trail layout
- budget

Total Estimated Cost: \$ \$459,690.00 Cost Share Request: \$ \$229,980 (50%)

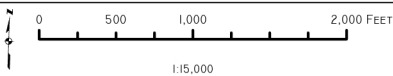
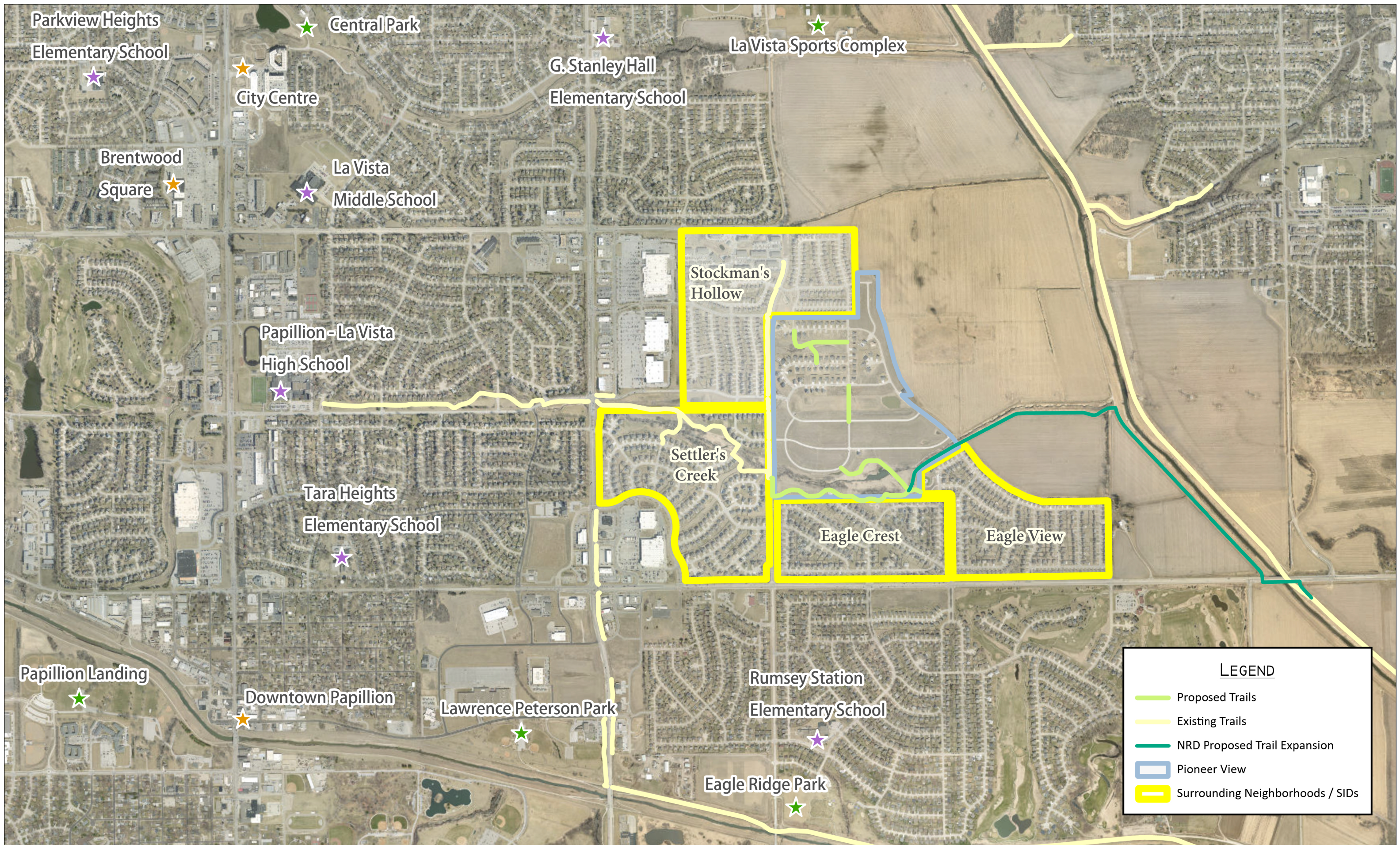
 Date: 03/16/2024

Signature

Environmental Scientist

Title








## Pioneer View Trail Improvements

Pioneer View (SID 305) in Sarpy County has a unique opportunity to serve as the final link between existing trail systems in adjacent neighborhoods and the Papio NRD trail to the east. The Pioneer View trail would serve as a critical connection to places of interest in the vicinity and facilitate less pedestrian use of local streets by providing an alternative route.

TAP funds would be utilized to improve trail width from 8 to 10 feet inside Outlot M. In alignment with the NRD's vision, the trail would be designed with future connection to the Big Papio Trail in mind; grading areas in Outlot M to prepare the outlot section for future NRD trail connection and designing a safe crossing across 66th Street to existing trails (see attached map).

We firmly believe that the Pioneer View trail project meets regional priorities and provides access points to schools, recreational areas, parks, and restaurants, improving the quality of life for all users interacting with the trail.



**PARKS IMPROVEMENTS****Assumptions/Comments:**
 TRAILS IN OUTLOT M

Bid Item Description		Approximate Quantity	Unit	Unit Price	Total
1 .	CLEARING AND GRUBBING	1	LS	\$5,000.00	\$5,000.00
2 .	TRIM TREE BRANCH	30	LBHR	\$100.00	\$3,000.00
3 .	REMOVE TREE 9"-18" DIAMETER STRIP, STOCKPILE, AND RESPREAD TOPSOIL - ESTABLISHED QUANTITY (500 CY X 2)	10	EA	\$500.00	\$5,000.00
4 .	COMMON EARTH EXCAVATION	1,000	CY	\$15.00	\$15,000.00
5 .	REMOVE UNSUITABLE MATERIAL	2,000	CY	\$18.00	\$36,000.00
6 .	CONSTRUCT 10' WIDE 6" CONCRETE TRAIL (OUTLOT M)	500	CY	\$20.00	\$10,000.00
7 .	CONSTRUCT 8' WIDE 6" CONCRETE TRAIL (OUTLOT M)	27,000	SF	\$8.25	\$222,750.00
8 .	SEEDING - TYPE "NON-IRRIGATED LAWN AND TURF SEED"	13,000	SF	\$8.25	\$107,250.00
9 .	INSTALL ROLLED EROSION CONTROL, TYPE 2	7.00	AC	\$3,500.00	\$24,500.00
10 .	CONSTRUCT STRAW WATTLE	5,000	SY	\$3.25	\$16,250.00
11 .	CONSTRUCT SILT FENCE	800	LF	\$4.00	\$3,200.00
12 .	CLEANOUT SILT FENCE	800	LF	\$4.00	\$3,200.00
13 .	REMOVE SILT FENCE	300	LF	\$1.50	\$450.00
14 .	CONTINGENCY	800	LF	\$1.00	\$800.00
		12%		\$452,400.00	\$54,288.00

**Estimated Construction Costs:**

\$506,688.00

**Estimated Soft Costs**

<b>Engineering Design and</b>	
20.00% <b>Construction Administration:</b>	\$101,337.60
2.00% <b>Geotechnical and Testing:</b>	\$10,133.76

**Total Estimated Soft Costs:** 22% \$111,471.36**Total Estimated Costs:** \$618,159.36

## Trails Assistance Program – Application Form



Project name South Sioux City C Street Trail Expansion

Project location (attach location map) Trail connector between Cardinal Park and 39th street.

Sponsor organization City of South Sioux City

Sponsor address 1615 1st Street

City South Sioux City State NE ZIP 68776

Contact person Gene Maffit

Title Park Administrator

Email address Gmaffit@southsiouxcity.org Daytime phone 402-494-7540

Description of project (attach additional sheets as needed)

See attached.

Total estimated cost \$ 254,904.69

Cost share request \$ 127,452.34

Gene Maffit  
Signature

3.14.24  
Date

Grant Administrator  
Title





Cardena Park

Peppering Place

South Park Apartments

6666 Colburn

Google Earth

42°27'19.10"N 96°24'47.61"W Elev: 1137 ft Eye alt: 2576

19°F Mostly cloudy 2:29 PM



**Description of Project**

The South Sioux City trail system started in the late 1970's with approximately a 1 mile trail running through the center of town starting at G Street and ending at Cardinal Park. Since then an additional 19 miles of trails have been added to South Sioux City.

This grant request is to connect two existing trails between Cardinal Park and 39<sup>th</sup> Street (map attached), this would provide a much needed connection for pedestrian and bicyclist's safety. There is a school closely located to the existing trails, and the connector trail would make it safer for both students and the community to travel safely on the trail path.

Construction of the trail is anticipated to start in May of 2025 with completion anticipated in mid June of 2025.

The City of South Sioux will obtain all necessary local, state and federal permits, and will manage the trail and all future operations of the area at no cost to the district.

**Comprehensive Plan Ties:**

In 2023 the City conducted two community focus groups to update the plan. The topics covered were: Housing, Economic Development and Employment Opportunities, Community Facilities, Utilities, Parks and Recreation, Land Use; Natural and Environmental Conditions, Energy Considerations; and Demographics and Populations.

See attached for the trail portion of the South Sioux Comprehensive plan.



Preliminary Opinion of Probable Cost

C Street Trail

South Sioux City, Nebraska

January 26, 2023

600' TRAIL CONNECTION (CARDINAL DRIVE TO 39TH STREET)

NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	Mobilization	LS	1	\$ 5,000.00	\$ 5,000.00
2	Sidewalk Removal	SY	275	\$ 5.00	\$ 1,375.00
3	6" Concrete Trail (10' wide)	SY	675	\$ 65.00	\$ 43,875.00
4	ADA Ramp at Intersection	LS	2	\$ 5,000.00	\$ 10,000.00
5	Remove Tree	EA	35	\$ 500.00	\$ 17,500.00
6	Remove Wooden Fence	LF	150	\$ 5.00	\$ 750.00
7	Utility Box/Pedestal Relocation	EA	4	\$ 10,000.00	\$ 40,000.00
8	Transformer Box Relocation	EA	1	\$ 50,000.00	\$ 50,000.00
9	Remove/Relocate Sign	EA	2	\$ 100.00	\$ 200.00
10	Traffic Control	LS	1	\$ 5,000.00	\$ 5,000.00
11	Seeding	SY	725	\$ 5.00	\$ 3,625.00
SUBTOTAL					\$177,325.00
CONTINGENCY (15%)					\$26,598.75
Construction Subtotal					\$203,923.75
Survey, Design, Construction (25%)					\$50,980.94
TOTAL PROJECT COST					\$254,904.69