

MEMORANDUM

TO: Programs, Projects, and Operations Subcommittee
FROM: Eric Williams, Natural Resources Planner
SUBJECT: FY 2020 Urban Cost Share Programs

- Urban Conservation Assistance Program
- Urban Drainageway Program
- Recreation Area Development Program
- Trails Assistance Program

DATE: April 5, 2019

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.

Gretna, Beadle Creek Bank Stabilization

Erosion and streambed degradation at the confluence of two tributaries has caused unstable conditions, and the sanitary siphon has become exposed. Bank repair and grading to establish a stable slope will be completed, and the siphon will be reconstructed and lowered. Reimbursement is being requested for the steam work only, not including any of the sanitary repair work.

Sarpy County, Valley Ridge Outfall Stabilization

A new sanitary sewer from the industrial development west of the existing creek has caused degradation within the creek downstream and has exposed the sanitary sewer. In order to stabilize the grade in the creek and protect the sanitary sewer, sheet pile walls with rip rap will be constructed. The creek bed will be returned to the previous elevation in order to provide sufficient cover for the sewer.

The FY 2019 budget included \$60,000 for projects in this program. The following table summarizes the FY 2020 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2020 Cost Share</u>
Gretna, Beadle Creek Bank Stabilization	\$200,000	\$30,000
Sarpy County, Valley Ridge Outfall Stabilization	\$40,000	\$24,000
Total	\$240,000	\$54,000

- It is recommended that the Subcommittee recommend to the Board of Directors that the applications from Gretna for \$30,000, and Sarpy County for \$24,000, for a total of \$54,000 be approved, subject to funding in the FY 2020 Budget.

Urban Drainageway Program

The Urban Drainageway Program (UDP) cost shares with 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.

Sarpy County, Buffalo Stream Bank Stabilization

Multiple attempts at stabilization have been attempted, but none have been effective long term. The stream is approaching Buffalo Road, impacting public safety. In order to permanently stabilize the bank, soil nails and shotcrete will be used. Due to the overall cost of this project, funding is being recommended over a three (3) year period, and an Interlocal Agreement will be presented in the future.

The FY 2019 budget included \$200,400 for projects in this program. The following table summarizes the FY 2020 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2020 Cost Share</u>
Sarpy County, Buffalo Stream Bank Stabilization Year 1 of 3 (\$303,115 in FY 2021, FY 2022)	\$2,273,360	\$303,115
Total	\$2,273,360	\$303,115

- It is recommended that the Subcommittee recommend to the Board of Directors that the application from Sarpy County for \$303,115 be approved, subject to funding in the FY 2020 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, Logemann Park Improvement Project

Logemann Park is a 12-acre park donated and annexed in February 2017. In order to be fully beneficial to the community, upgrades are needed to allow access. This will include removal of existing brush and trees, grading, seeding, and planting of many varieties of new trees.

Fort Calhoun, Adam's Street Corridor Park

This comprehensive park project has several planned phases according to the Master Plan, and is currently in early development. Features of this phase include a toddler play area and a shaded area for older adults.

Homer, Park Improvements

Adjacent to the ball fields, is the Play Park in the center of town. A new accessible restroom will be constructed, as well as parking stalls and a sidewalk to increase access for all members of the community.

Omaha, Dewey Dog Park

Dewey Park is located in an urban neighborhood, adjacent to Turner Blvd and the trail. A new dog park is proposed near the Community Center, including areas for both small and large dogs. This park is within walking distance from the rapidly developing communities at Midtown and Blackstone.

Omaha, Flanagan Lake Playground

The newly completed park at Flanagan Lake was opened for public use in 2018. In order to expand recreation opportunities, this project will include a play structure, gill slide, swings, seating areas, and accessible walkways.

South Sioux City, 25th Street Community Park Shelter

A new park is planned for the southeast part of town, in an area known as Old Tree Farm. The first features of this new park will include grading and a concrete slab, and placement of a shelter structure.

The FY 2019 budget included \$160,681 for projects in this program. The following table summarizes the FY 2020 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2020 Cost Share</u>
Bennington, Logemann Park Improvements	\$150,000	\$50,000
Fort Calhoun, Adam's Street Corridor Park	\$100,141	\$50,000
Homer, Park Improvements	\$29,000	\$14,500
Omaha, Dewey Dog Park	\$456,000	\$50,000
Omaha, Flanagan Lake Playground	\$524,000	\$50,000
SSC, 25th Street Community Park Shelter	\$29,339	\$14,669
Total	\$1,288,480	\$229,169

- It is recommended that the Subcommittee recommend to the Board of Directors that the applications from Bennington for \$50,000, Fort Calhoun for \$50,000, the Village of Homer for \$14,500, the City of Omaha for \$50,000 and \$50,000, and South Sioux City for \$14,669, for a total of \$229,169, be approved, subject to funding in the FY 2020 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.

Gretna, Wehrspann Lake Trail

A trail connection is proposed from the City of Gretna to connect with Chalco Hills Recreation Area. The park is accessible via trails on the east side, but no recreation and active transportation facility currently connects to residents to the west. This project will consist of multiple sections based on the existing and newly developing neighborhoods, and the project has federal funding from the Transportation Alternatives Program.

Omaha, North Omaha Trail Project

This comprehensive project will provide recreation and active transportation connectivity in neighborhoods across North Omaha. The corridor will extend from Metropolitan Community College at the north end, crossing Hwy 75 North at the existing Pratt Street bridge, connecting to historic 24th Street, and then to the developing neighborhoods of North Downtown. Very limited recreation and natural resource opportunities are accessible in this area, and multiple phases of this project will bring additional benefits to the community over the coming years. This project will include an Interlocal covering funding in two fiscal years.

SID 503, West Dodge Station Trail

This trail is part of the regional plan to connect from the existing West Papio Trail, following the creek west into Elkhorn. The trail and creek also follow the historic Old Lincoln Highway. Phases of the complete trail corridor are being built over time, coordinated with major infrastructure projects at 168th, 180th and 192nd Streets. Funding is recommended for the regional trail portion of the project, running between the creek and the highway.

South Sioux City, 29th Street Trail

In 2018, a former engineered drainageway was transformed to restore habitat, and to improve water quality from stormwater runoff. This proposed trail will connect the neighborhood pedestrian network with a natural resources corridor from 29th Street to the newly developing Flatwater Commons.

The FY 2019 budget included \$128,450 for projects in this program. The following table summarizes the FY 2020 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2020 Cost Share</u>
Gretna, Wehrspann Lake Trail	\$826,700	\$82,670
Omaha, North Omaha Trail Project Year 1 of 2 (\$146,209 in FY 2021)	\$1,022,500	\$146,209
SID 503 (Douglas), West Dodge Station Trail	\$488,052	\$244,026
SSC, 29th Street Trail	\$337,810	\$164,505
Total	\$2,675,062	\$637,410

- It is recommended that the Subcommittee recommend to the Board of Directors that the applications from Gretna for \$82,670, Omaha for \$146,209, SID 503 for \$244,026, and South Sioux City for \$164,505, for a total of \$637,410 be approved, subject to funding in the FY 2020 Budget.

Lake Dredging Program

The Lake Dredging Program cost shares with communities to remove accumulated sediments from public recreation lakes. The cost share rate is 50%, up to a maximum of \$100,000. All applications require Board Approval.

No application were received for this program in FY 2020.

Urban Conservation Assistance Program – Application Form



Project name Beadle Creek Bank Stabilization

Project location (attach location map) South 186th St, South of Harrison St, Beadle Creek

Sponsor organization City of Gretna

Sponsor address 204 N. McKenna Ave

City Gretna State NE ZIP 68028

Contact person Steven W. Perry, PE

Title City Engineer

Email address SteveP@OlmstedPerry.com Daytime phone (402) 399-8552

Description of problem (attach additional sheets as needed)

See attached

Proposed solution (attach additional sheets as needed)

See attached

Total estimated cost \$ 200,000 Cost share request \$ 30,000

James W. Timmerman

Signature

March 21, 2019

Date

Mayor

Title

Description of the problem

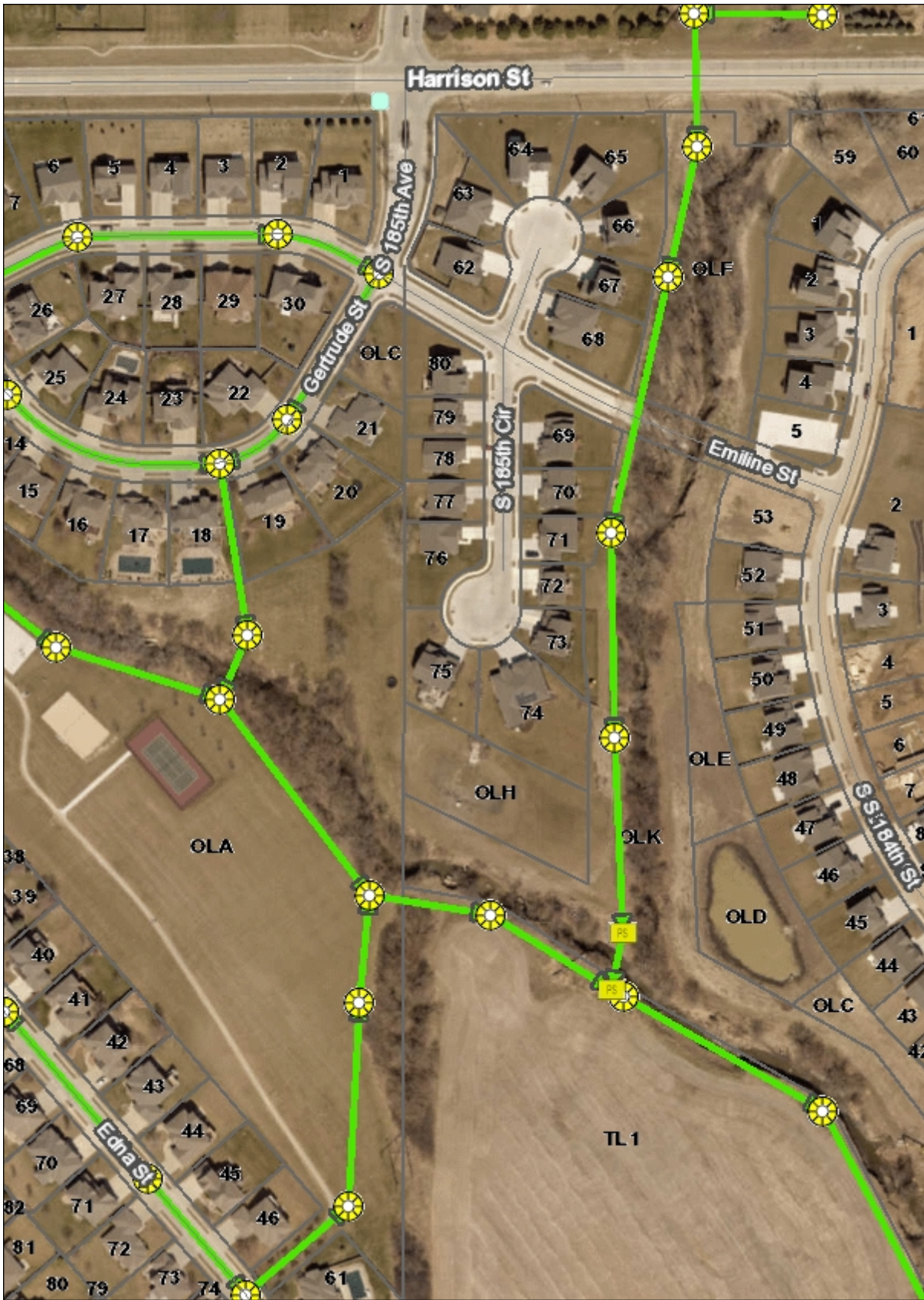
The original siphon was installed in 1999 as part of the City of Gretna's Municipal Interceptor Sewer Project. Over the years, severe degradation of the channel has occurred in this reach of Beadle Creek. The channel in this location has dropped over five feet, and has exposed the siphon crossing piping under Beadle Creek.

Proposed Solution

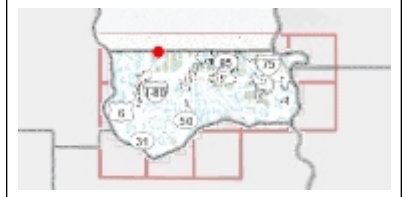
The inverted siphon needs to be replaced and the banks of the creek need to be stabilized. Due to the location of the siphon, bank stabilization is required on this section of the creek as well as a portion of the tributary from the north.

Reimbursement will only be requested for the portion of the project which is bank stabilization, and not costs associated with the sanitary sewer reconstruction.

Beadle Creek, Stabilization



Location



Sarpy County GIS



1210 Golden Gate Dr.
Suite 1130
Papillion, NE 68046
maps.sarpy.com

Legend

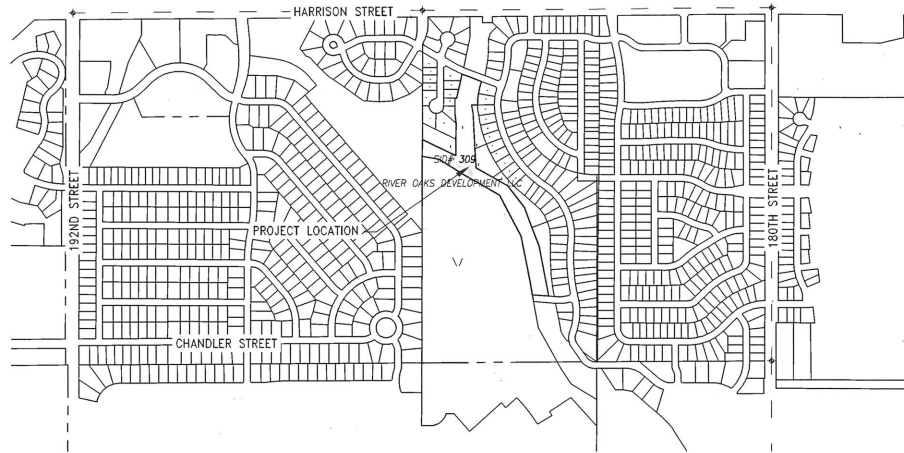
- Bridges
- Curb Ramps
- Signs
- Signals
- Trees
- Guardrails
- Pavement Type
- Street Pavement
- Network Structures**
 - Discharge Structure
 - Diversion Chamber
 - Diversion Point
 - Junction Chamber
 - Lift Station
 - Production Well
 - Pump Station
 - Split Manhole
 - Storage Basin
 - Tide Chamber
 - Treatment Plant
- System Valves
- Control Valves
- Inlets
- Discharge Points
- Manholes**
 - Active
 - Abandoned
- Pressurized Mains
- Gravity Mains**
 - Abandoned
 - Active
- Open Drains
- Road Centerlines**
- 2018 Aerial Photo**

- Red: Band_1
- Green: Band_2
- Blue: Band_3

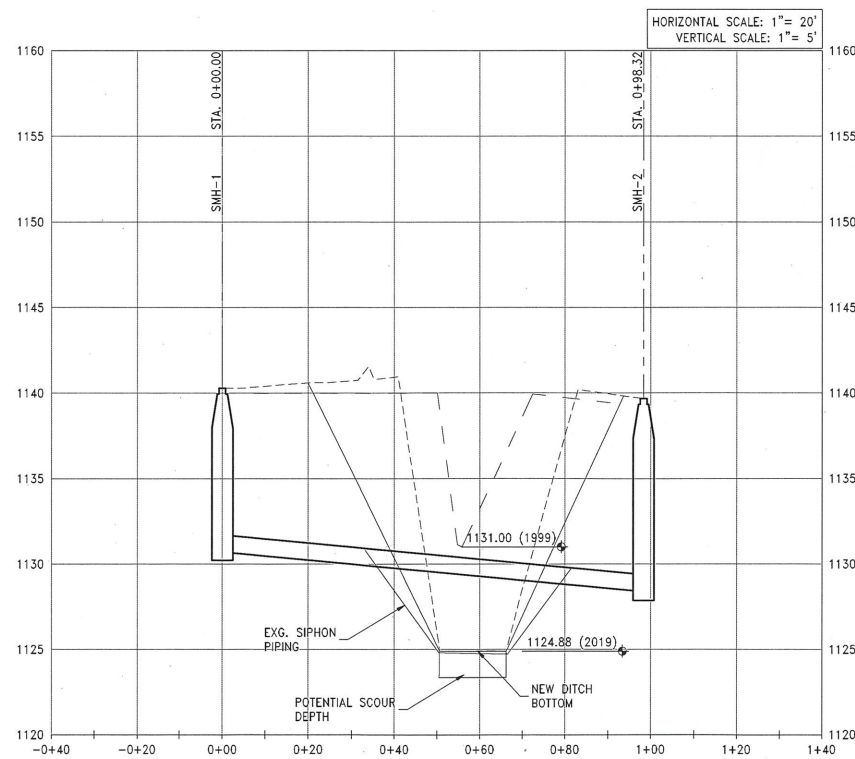
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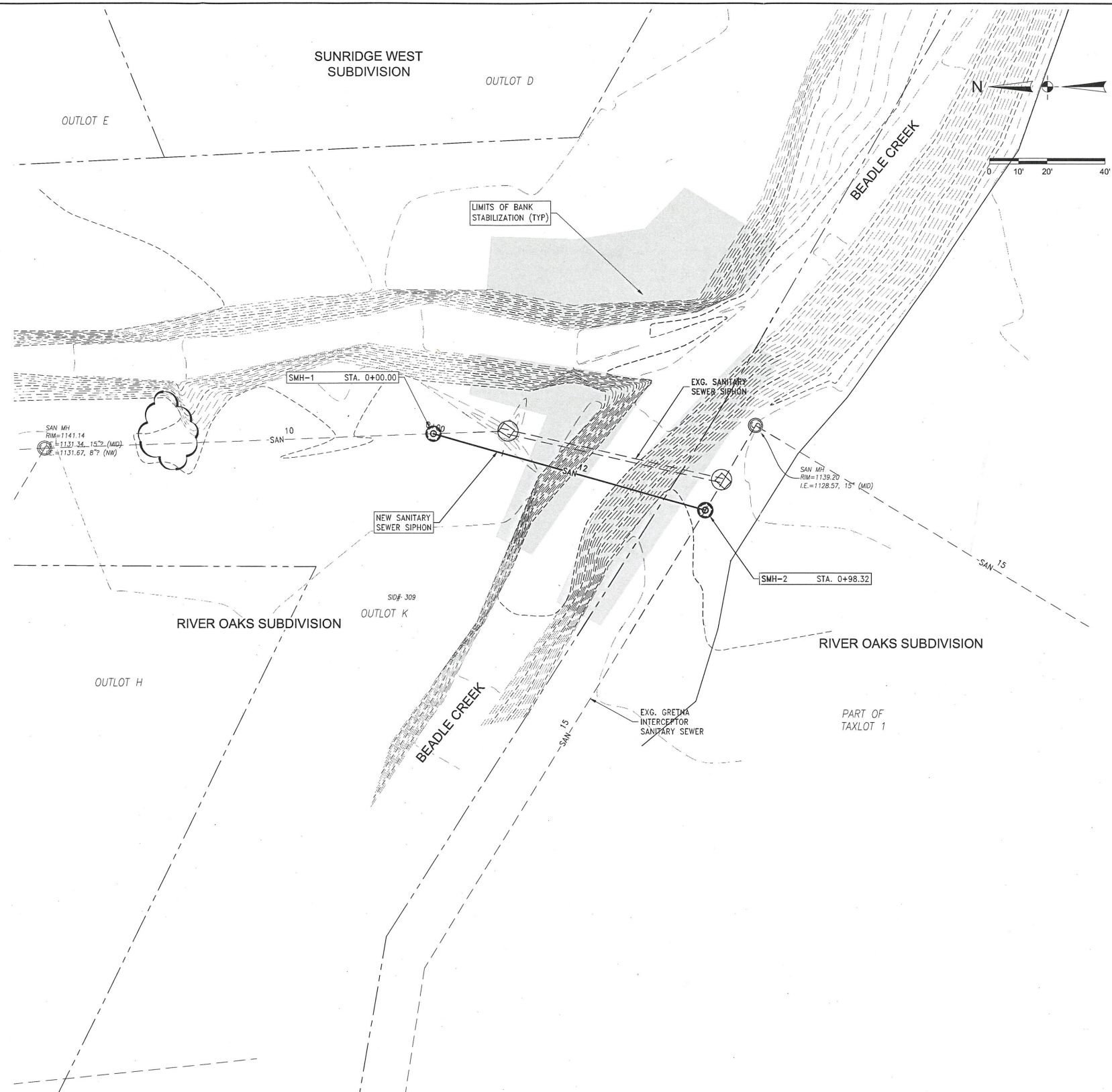
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VICINITY MAP



CROSS SECTION
NO SCALE



NOT FINAL
PRELIMINARY
SUBJECT TO CHANGE

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

REVISIONS

BEADLE CREEK BANK STABILIZATION AND
INTERCEPTOR SEWER REPLACEMENT
GRETN, NEBRASKA

DESIGNED BY: JFZ
CHECKED BY: SWP
DRAWN BY: JFZ

CONCEPT PLAN

PROJECT NO.: 18004-18
DATE: MARCH 21, 2019

SHEET NO.: 1 of 1

Urban Conservation Assistance Program – Application Form

Project name Valley Ridge Outfall Sewer Creek Stabilization

Project location (attach location map) 600' east of 13951 Valley Ridge Dr

Sponsor organization Sarpy County

Sponsor address 1210 Golden Gate Drive

City Papillion State NE ZIP 68046

Contact person Art Beccard

Title Manager of Environmental Services

Email address abeccard@sarpy.com Daytime phone 402-593-1508

Description of problem (attach additional sheets as needed)

The new storm sewer from the Industrial development west of the existing creek has caused headcutting within the creek downstream and has now exposed the existing 8" sanitary sewer truss outfall. This sewer was disconnected to the existing outfall sewer to reduce any infiltration in the outfall sewer system. The lot to the east is needing to be developed and this sewer needs to be reconnected therefore the sewer needs to be covered and protected to reduce any issues of infiltration.

Proposed solution (attach additional sheets as needed)

Similar to what was done on other exposed sanitary sewer projects, this project will construct sheet walls to protect the existing pipe with rip rap on both sides to either protect the pipe or the sheet wall from undercutting. The sheet wall elevation will be placed at the elevation of the ground prior to the headcutting to get the appropriate amount of fill over the sewer main and to ensure a reasonable slope from the existing storm sewer to the sewer main.

Total estimated cost \$ 40,000 Cost share request \$ 60% Papio-NRD (\$24,000)

Arthur D. Beccard
Signature

March 20, 2019
Date

Manager of Environmental Services
Title

Valley Ridge Outfall Sewer Creek Stabilization**Assumptions/Comments:**

Site design is stabilization of creek with sheeting to add 3-4' of fill over existing truss pipe. Pipe shall be protected with Rip-rap and drop shall have rip-rap for energy dissipation. Project will also have reconnection of sanitary sewer to existing manholes. No easements are required but tree removal is required to get to site. Assume bottom of creek is 12' wide, side slopes are 0.5:1 and the cut is 10' deep.

	Bid Item Description	Approximate Quantity	Unit	Unit Price	Total
1 .	CLEARING AND GRUBBING GENERAL	1	LS	\$2,500.00	\$2,500.00
2 .	CLEARING AND GRUBBING TREES OVER 9"	6	EA	\$100.00	\$600.00
3 .	REMOVE 8" SEWER PIPE PLUG	2	EA	\$250.00	\$500.00
4 .	CONSTRUCT SHEET PILE WALL	184	SF	\$70.00	\$12,880.00
5 .	CONSTRUCT 8" SANITARY SEWER PIPE	40	LF	\$50.00	\$2,000.00
6 .	CONSTRUCT 8" PIPE BEDDING	40	LF	\$10.00	\$400.00
7 .	CONSTRUCT STEEL CASING	20	LF	\$100.00	\$2,000.00
8 .	CONSTRUCT ROCK RIP-RAP - TYPE "A"	10	TON	\$95.00	\$950.00
9 .	CONSTRUCT ROCK RIP-RAP - TYPE "B"	30	TON	\$95.00	\$2,850.00
10 .	SEEDING	300	SY	\$2.00	\$600.00
11 .	ROLLED EROSION CONTROL, TYPE I	300	SY	\$5.00	\$1,500.00
	CONTINGENCY	20%		\$26,780.00	\$5,356.00

Estimated Construction Costs: \$32,136.00

Estimated Soft Costs

Engineering Design and Construction Administration: \$7,200.00
Geotechnical and Testing: \$670.00

Total Estimated Soft Costs: \$7,870.00

Total Estimated Costs: \$40,006.00

Sarpy County Property Information



Section of exposed 8"
sanitary sewer pipe
on Sarpy County
Valley Ridge Outfall.

Location



Legend

Network Structures

- Discharge Structure
- Diversion Chamber
- Diversion Point
- Junction Chamber
- Lift Station
- Production Well
- Pump Station
- Split Manhole
- Storage Basin
- Tide Chamber
- Treatment Plant

Pressurized Mains

Gravity Mains

- Abandoned
- Active

Open Drains

Road Centerlines

2018 Aerial Photo

- Red: Band_1
- Green: Band_2
- Blue: Band_3



0 313 627 1254
Feet

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Sarpy County GIS

1210 Golden Gate Dr.
Suite 1130
Papillion, NE 68046
maps.sarpy.com





Urban Drainageway Program – Application Form

Project name Buffalo Stream Bank Stabilization

Project location (attach location map) East of 192nd Street on Buffalo Road

Sponsor organization Sarpy County

Sponsor address 15100 S. 84th Street

City Papillion State NE ZIP 68046

Contact person Krista K. Wassenaar, PE

Title Senior Engineer

Email address kwassenaar@sarpy.com Daytime phone 402-537-6924

Description of problem (attach additional sheets as needed)

The stream bank has been stabilized multiple times in the past years, but the stabilization has not worked. The stream is coming closer to Buffalo Road which is impacting the potential safety of people traveling along this road.

Proposed solution (attach additional sheets as needed)

We are wanting to permanently stabilize the stream bank to reduce future safety issues. See attached plans/report for more information. The project is near final design, but is not currently planned for construction due to project costs. Additional funding would allow us to complete the project. We are requesting funding only for construction activities.

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

Total estimated cost \$ 2,273,360 Cost share request \$ 909,344


Signature

3/22/2019
Date

County Engineer
Title

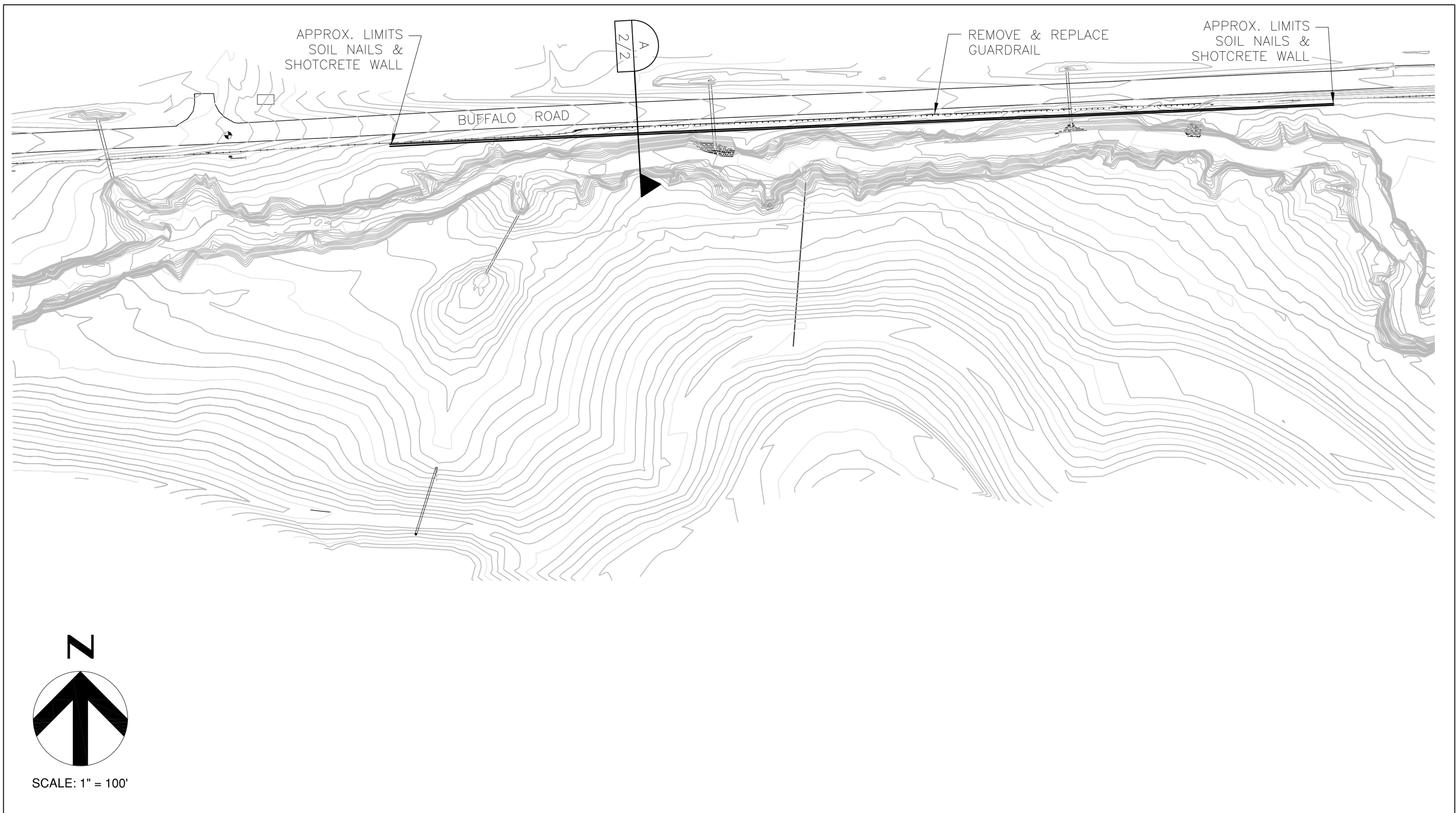
Engineer's Preliminary Opinion of Approximate Costs

Buffalo Road and 192nd Street

Structure Sarpy County - Meander Channel
Date 3/26/2014
Quantity by V. Twerdochlib

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
Mobilization & Demobilization (7% Subtotal)	LS	1	\$ 90,100	\$ 90,100
BMP Construction and Maintenance (0.2% Subtotal)	LS	1	\$ 3,000	\$ 3,000
Surveying & Staking	LS	1	\$ 2,000	\$ 2,000
Bypass Pumping	LS	1	\$ 10,000	\$ 10,000
Clearing & Grubbing, Channel Clearing	AC	9.0	\$ 6,300	\$ 56,700
Tree Removal	EA	129.0	\$ 200	\$ 25,800
Strip & Stockpile Topsoil	SY	42,300	\$ 0.40	\$ 17,000
New Channel Excavation	CY	46,700	\$ 3.50	\$ 163,450
Disposal of Excess Excavated Material	CY	11,675	\$ 10.00	\$ 116,750
36" CMP	LF	33	\$ 68.00	\$ 2,300
30" CMP	LF	25	\$ 61.00	\$ 1,600
Embankment for Roadway Embankment	CY	31,200	\$ 8.50	\$ 265,200
Coir Mat for Southern Embankment	SY	9,613	\$ 5.00	\$ 48,100
Seeding	AC	9.0	\$ 800.00	\$ 7,200
Construct Rock Riprap, Type C	TN	10,100	\$ 55.00	\$ 555,500
Filter Fabric	SY	4,800	\$ 3.10	\$ 14,900
Sub-Total				\$ 1,379,600
Engineering, Bid-Phase and Permitting (10%)				\$ 138,000
Contingencies (28%)				\$ 386,300
TOTAL				\$ 1,903,900

Estimate escalated to 2020 costs (3% per year)= \$2,273,360



PROJECT TITLE
192ND & BUFFALO ROAD CHANNEL STABILIZATION

SHEET TITLE
PROPOSED SOIL NAIL STABILIZATION
PRELIMINARY PLAN

PROJECT NUMBER
226244

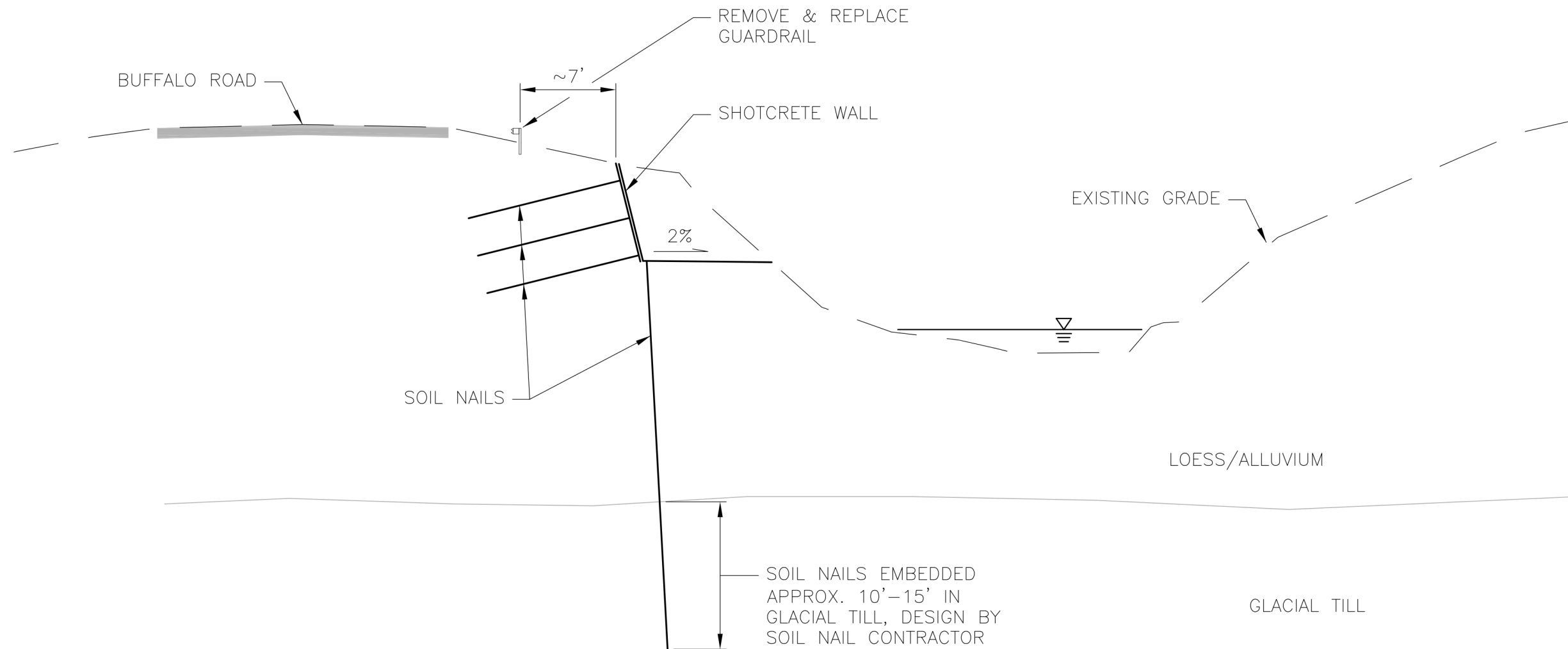
PROJECT MANAGER

DATE
5/17/2016

REFERENCE SHEET

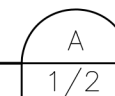
REFERENCE DOCUMENT

EXHIBIT NUMBER
1/2



TYPICAL SECTION SOIL NAIL STABILIZATION

NO SCALE



PROJECT TITLE
192ND & BUFFALO ROAD CHANNEL STABILIZATION

SHEET TITLE
PROPOSED SOIL NAIL STABILIZATION
TYPICAL SECTION

PROJECT NUMBER
226244

PROJECT MANAGER

DATE
6/6/2016

REFERENCE SHEET

REFERENCE DOCUMENT

EXHIBIT NUMBER
2/2

MAR 25 2019



Recreation Area Development Program – Application Form

Project name Adam's Street Corridor Park Improvements - Phase 2

Project location (attach location map) See attached Exhibit C

Sponsor organization City of Fort Calhoun, NE

Sponsor address 110 S 14th Street

City Fort Calhoun State NE ZIP 68023

Contact person Deb Sutherland

Title City Administrator

Email address administrator@fortcalhoun.org Daytime phone 402.468.5303

Description of project (attach additional sheets as needed)

See attached Exhibit A

Total estimated cost \$ 100,141.00

Cost share request \$ 50,000.00

Deb Sutherland
Signature

3-22-19
Date

Deb Sutherland, City Administrator

Title

The City of Fort Calhoun is requesting \$50,000 from the Papio-Missouri River NRD's Recreation Area Development Program to cost share a new toddler play area and shaded area at the Adams Streets Corridor Park.

Project Background

This park project is in its earliest stages of development, but it is the culmination of many years of planning conducted by the city. During the update of the city's comprehensive plan in 2016, the City conducted a series of town hall and stakeholder group meetings to gather public feedback on the needs of the community and residents' vision for the future.

During these meetings, the need for a new municipal park became a clear and consistent theme. There were several park features that residents wanted incorporated, including a splash pad, community gathering space, and trail connections between the existing recreational parks within the city to Fort Atkinson State Historical Park.

Within the Implementation section of the comprehensive plan, Community Facilities Project 1 (included as Exhibit B) called for the development and implementation of a recreation plan that includes year-round recreation options, athletic fields, splash pad and trails expansion. The objectives under this project included the development of a master plan and then the implementation of that master plan in phases.

The proposed site for the location of the Adams Street Corridor Park Improvements is city owned property containing the existing Adams Street Right of Way from 13th to 12th and a parcel of property along the west side of 12th from Adams to Monroe Street as shown on the attached Exhibit C. The site was previously utilized for two maintenance buildings for the city's public works staff whose operations were relocated to a new facility in 2018. Pictures of the existing property are included as Exhibit D.

Building upon the recommendations of the comprehensive plan, a trail feasibility study was completed by JEO Consulting Group in June of 2018. The Plan identified a trail route from the city's West Market Square Park on the west side of town to Fort Atkinson. Furthermore, the study identified a route for a future recreational trail through the proposed park site. A portion of this study has been included as Exhibit E.

Following this study and at the direction of the city parks board and the city council, a consulting team led by JEO Consulting Group and Big Muddy Workshop assembled a park master plan for the proposed site that was recently completed in March of 2019. The master plan has been included as Exhibit F. Subsequently to the master plan work, the city contracted for the first phase of the Adams Street Corridor Park Improvements with Mazlowsky Grading in February of 2019 at a cost of \$33,331.00 to demolish the two existing buildings, remove pavement materials, and restore the site to a grassed greenspace.

Proposed Project

During the master planning process, a stakeholder group comprising of citizens, the adjacent churches and school, parks board, and city council was formed to evaluate the features to be contained within the park. The master plan developed for the Adams Street Corridor Park incorporates the desire from this group to provide for a community gathering space that is complementary to other civic minded facilities

in the vicinity, such as the school and churches that appeal to a wide generational range of the residents of the city.

The highest desired features for the future park include a toddler play area, a shaded area to accommodate older adults, and a splash pad for young families. Additional features master planned within the park in future phases include a garden sitting area, great lawn and shelter/bandstand, public restrooms, farmer's market parking, and an outdoor fire pit area. A phasing plan for the park has been attached as Exhibit G.

The features are incorporated around the proposed trail that will eventually extend through the park and connect to the other recreational areas within the city. The park is oriented as an "L" shaped linear park with features extending along the length. Features have been arranged to provide an area on the corner that accommodates young families who will utilize the splash pad, toddler play area, and shade shelter. The shelter/bandstand and restrooms are oriented to allow for an event on the lawn space that will not conflict with the splash pad area. Lastly, it is envisioned to utilize the farmer's market area in conjunction with the other features or for more specialty events such as food truck nights or during the city's large Halloween celebration. It is important to the overall design that the features and walkways around them do not overtake the landscape of the park. Tree plantings, grassed areas, and pavers have been planned to soften the landscape, provide shade, and reduce the stormwater runoff from the site.

Phase 2 and 3 are to implement the highest priority projects of the park. The city is requesting grant assistance from the NRD for the implementation of Phase 2. The city will be applying to the land and water conservation fund to cost share on the implementation of Phase 3. Exhibit H illustrates the Phase 2 improvements including pictures of the proposed features within the toddler play area and an example of the type of shade shelter to be placed. Also included in Exhibit H is a plan layout of the splash pad area in Phase 3.

Project Financials

The costs of the highest priority phases of the project are included below:

Phase 1 – Site Demolition and Restoration	\$33,331 – Currently underway
Phase 2 – Toddler Play Area and Shaded Area	\$100,141 – Current request
Phase 3 – Splash Pad	\$322,229 – Future LWCF request

The Phase 2 improvements are estimated to cost \$100,141 as prepared by the consultant team and detailed in the opinion of cost attached as Exhibit I. The city passed a 1.5% sales tax in 2016 and the city council, by motion, has allocated a portion of the sales tax generated to the phases of this project annually. The city is looking to leverage grant dollars from the NRD's Recreation Area Development Program as follows to fund Phase 2 of the future park.

Exhibit A
Project Description

The City of Fort Calhoun has by motion at their March 18th meeting committed to matching the \$50,000.00 request at a 50/50 cost share with the NRD and this matching portion is currently fully funded in the sales tax reserve account.

	Dollar Amount	Percent of Project
Recreation Area Development Program:	\$50,000.00	49.9%
<u>Local Match from the City of Fort Calhoun:</u>	<u>\$50,141</u>	<u>50.1%</u>
Total:	\$100,141	100%



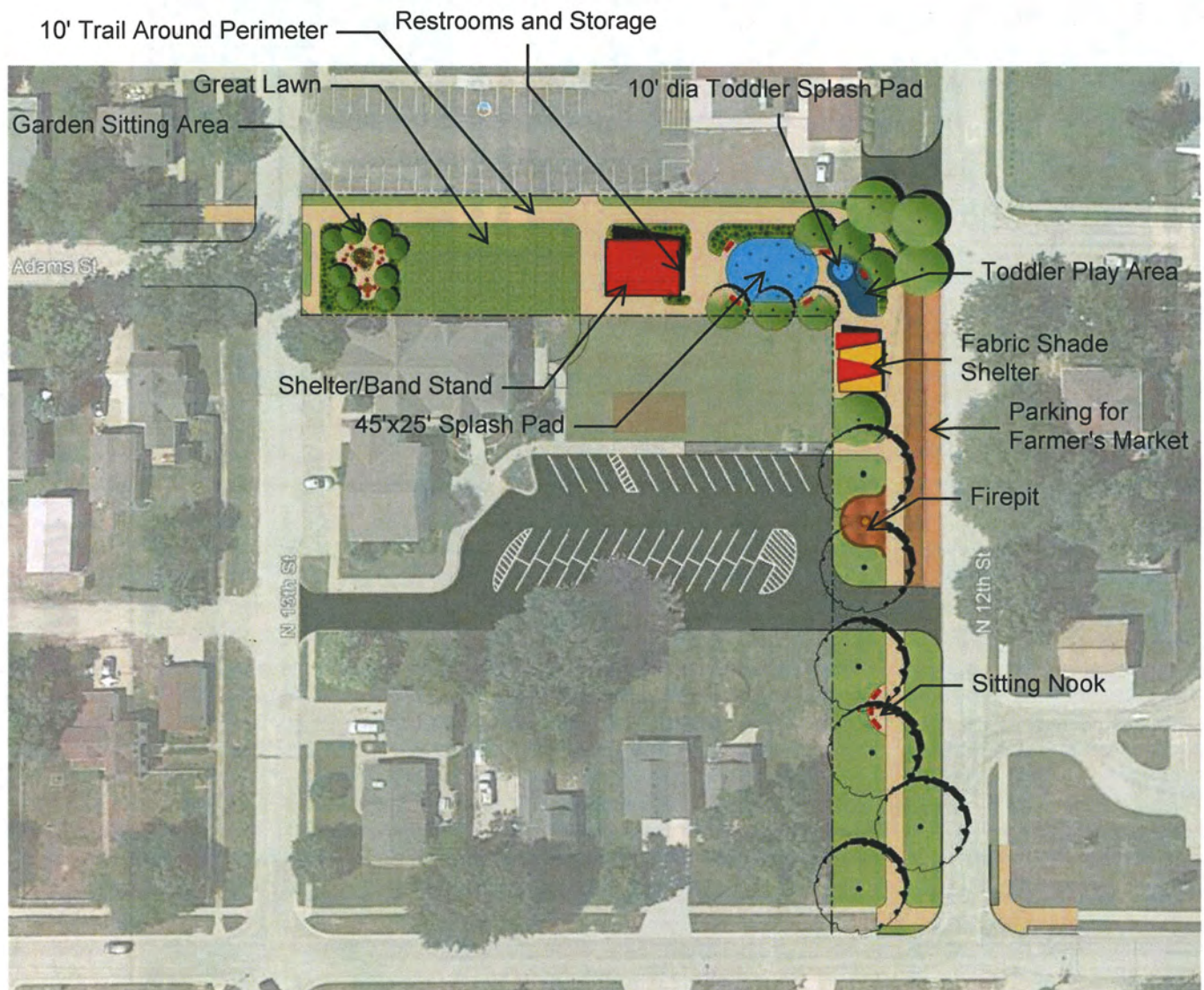
Looking east along Adams Street from 13th



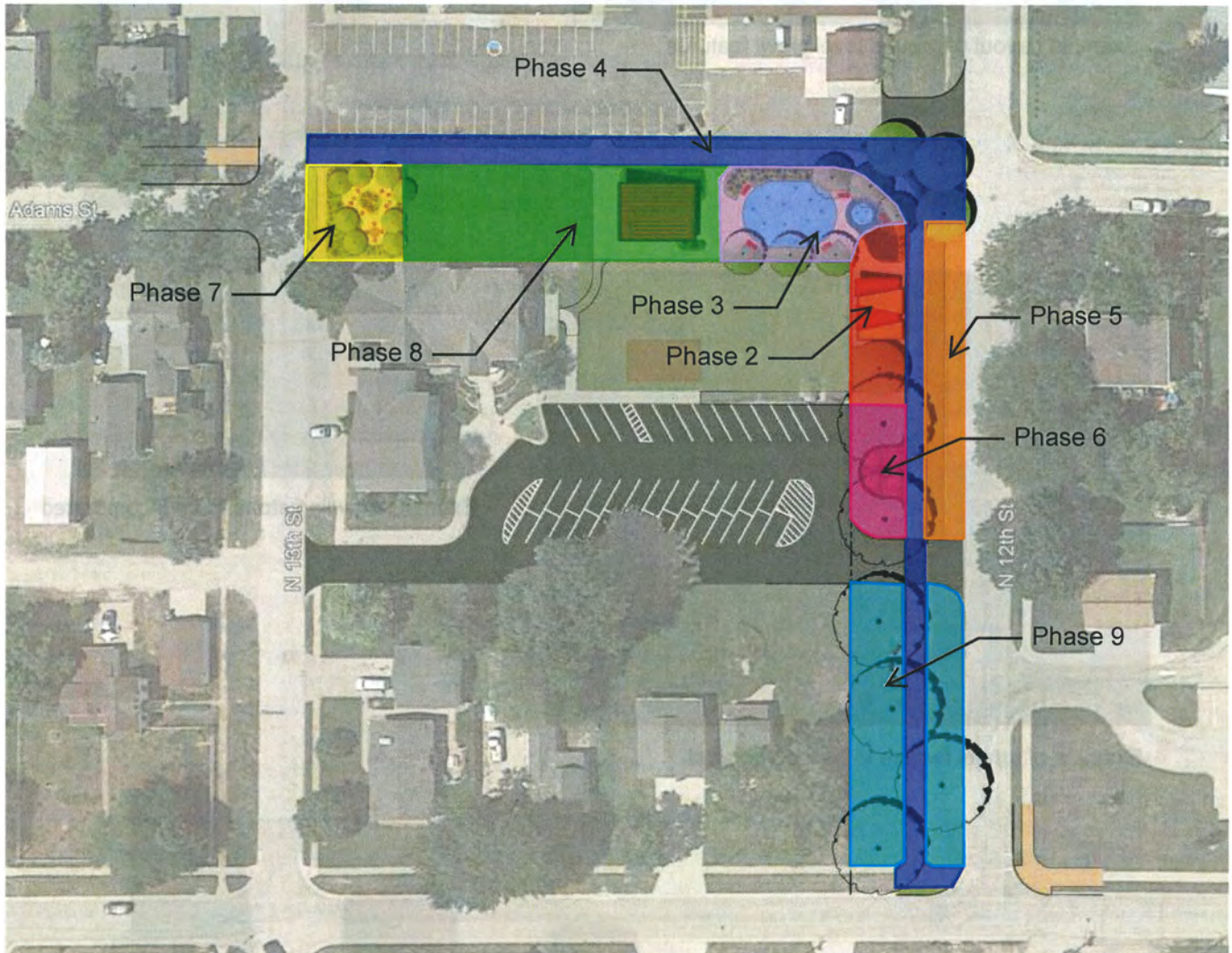
Looking west along Adams Street from 12th



Looking north along 12th from Monroe



Adams Street Corridor Park Master Plan



Adams Street Corridor Park Phasing Plan

Description of Phases:

- Phase 1: Site Demolition and Restoration - Underway
- Phase 2: Toddler play area, shade shelter
- Phase 3: Splash pad
- Phase 4: Trail around perimeter
- Phase 5: Farmer's market area
- Phase 6: Fire pit
- Phase 7: Garden sitting area
- Phase 8: Shelter/bandstand and lawn
- Phase 9: Sitting nook

Planning Level Opinion of Cost
Adams Street Corridor Park Improvements - Phase 2 and 3
03.19.2019

ITEM	QTY	UNIT	UNIT COST	ITEM TOTAL
Phase 2 - Toddler Play Area and Shaded Area				
<u>Site Preparation and Restoration</u>				
Silt fencing	80	LF	\$4.00	\$320
Rough grading - 12" average depth	58	CY	\$15.00	\$870
<u>Site Paving and Improvements</u>				
Pavement subgrade preparation	170	SY	\$3.50	\$595
Colored concrete walk pavement - 5" thick (including under structure)	1530	SF	\$6.75	\$10,328
Toddler play surface - 5" concrete with 2" colored resilient safety surface	500	SF	\$20.00	\$10,000
<u>Picnic Shade Structure</u>				
Open-air fabric shade structure - 20'x30'	1	EA	\$25,000.00	\$25,000
Shade structure footings	1	LS	\$8,000.00	\$8,000
Lighting and power outlets - quad 120V receptacle - switching and service from restroom	1	LS	\$5,000.00	\$5,000
<u>Toddler Play Equipment</u>				
Play equipment with installation	1	LS	\$20,000.00	\$20,000
Subtotal Construction Costs - Phase 2				\$80,113
Mobilization/bonding/insurance - 7% of construction cost				\$5,607.88
Design services (Engineering, Survey, Architecture) - 15%				\$12,017
Overhead (Legal, Fiscal, etc.) - 3%				\$2,403.38
Total Project Costs - Phase 2				\$100,141
Phase 3 - Splash Pad Area				
<u>Site Preparation and Restoration</u>				
Silt Fencing	230	LF	\$4.00	\$920
Rough grading - 12" average depth	155	CY	\$15.00	\$2,325
<u>Site Paving and Improvements</u>				
Pavement subgrade preparation	72	SY	\$3.50	\$252
Colored concrete walk pavement - 5" thick	635	SF	\$6.75	\$4,286
<u>Splash Pad</u>				
Splash pad and equipment	1	LS	\$250,000.00	\$250,000
Subtotal Construction Costs - Phase 3				\$257,783
Mobilization/bonding/insurance - 7% of construction cost				\$18,044.83
Design services (Engineering, Survey, Architecture) - 15%				\$38,667
Overhead (Legal, Fiscal, etc.) - 3%				\$7,733.50
Total Project Costs - Phase 3				\$322,229

**Recreation Area Development Program – Application
Form**

Project name Homer Park Improvements
Project location (attach location map)
Sponsor organization Village of Homer
Sponsor address 110 John St. P.O. Box 386
City Homer State Ne. ZIP 68030
Contact person Carley Grolmus
Title City Clerk
Email address homervil@abbnebraska.com Daytime phone 402-698-2155

Description of project (attach additional sheets as needed)

We will be designating a handicap parking stall and adding a handicap accessible restroom with sidewalks to be placed from the parking to the restrooms.

Total estimated cost \$ 29,000 Cost share request \$ 14,500

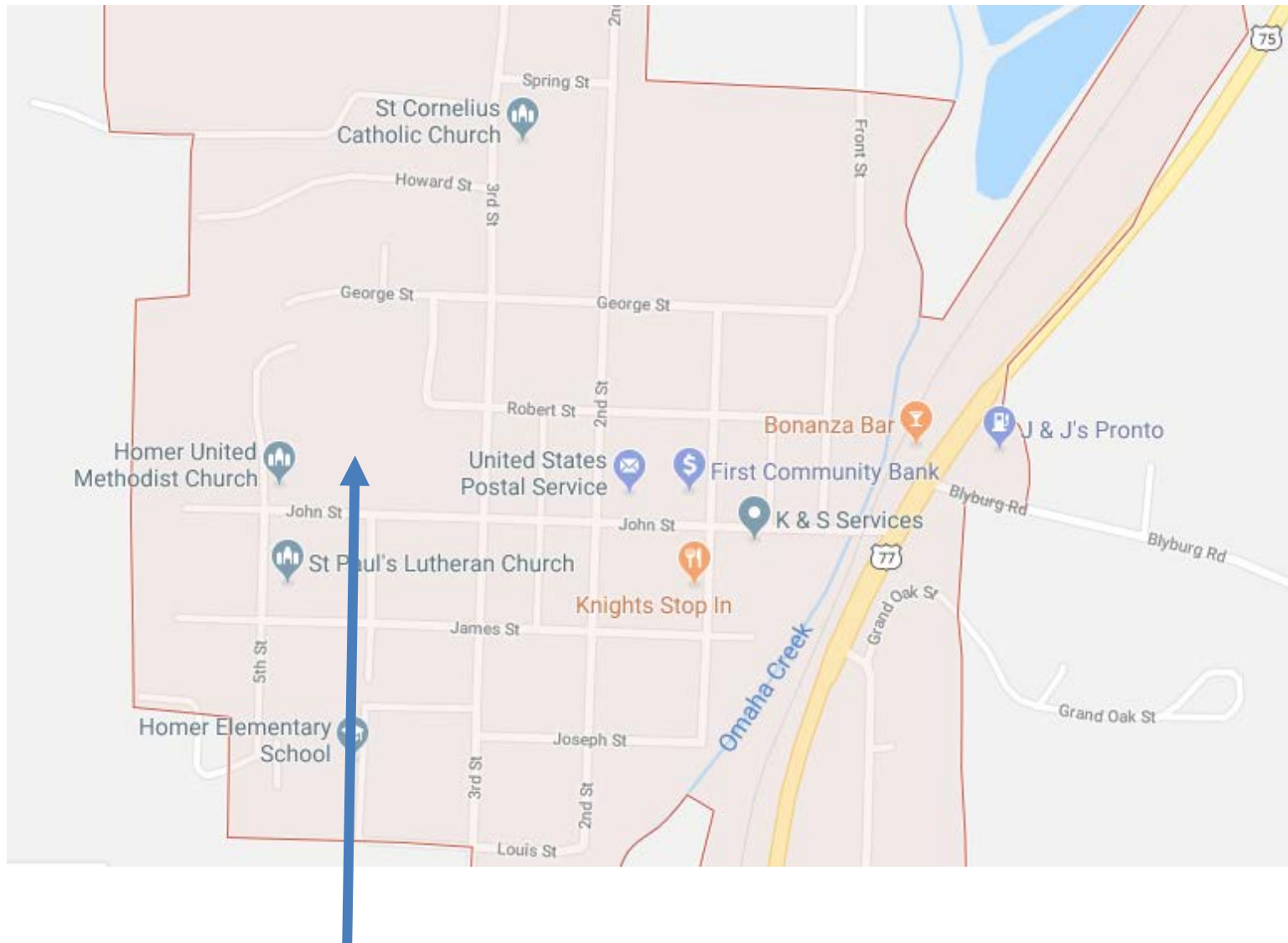
Elvin Vavra

Signature

Dawn Maslonka
Chairman of the
Board

3/20/2019

Date 3.20-19



Arrow Points to Homer Ball Park in the town of Homer, Nebraska



To the right of the existing bathrooms we are adding an 8 foot by 8 foot handicap accessible restroom that will also be equipped with a baby changing station.



Here we will be designating a handicap parking stall with cement landing and a sidewalk leading to the new restroom. In addition to the side walk we will have a designated sitting area next to the sidewalk for wheelchairs.

Recreation Area Development Program – Application Form

Project name Dewey Dog Park

Project location (attach location map) 550 Turner Boulevard

Sponsor organization City of Omaha

Sponsor address 1819 Farnam Street, Ste. 701

City Omaha State NE ZIP 68183

Contact person John Williams

Title Park Planner II

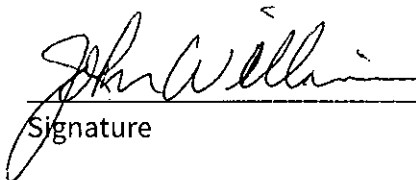
Email address john.williams@cityofomaha.org Daytime phone 402.444.5943

Description of project (attach additional sheets as needed)

see attached

Total estimated cost \$ 465,000.00

Cost share request \$ 50,000.00



3/21/2019

Date

Park Planner II

Title

Dewey Dog Park

Description of Project:

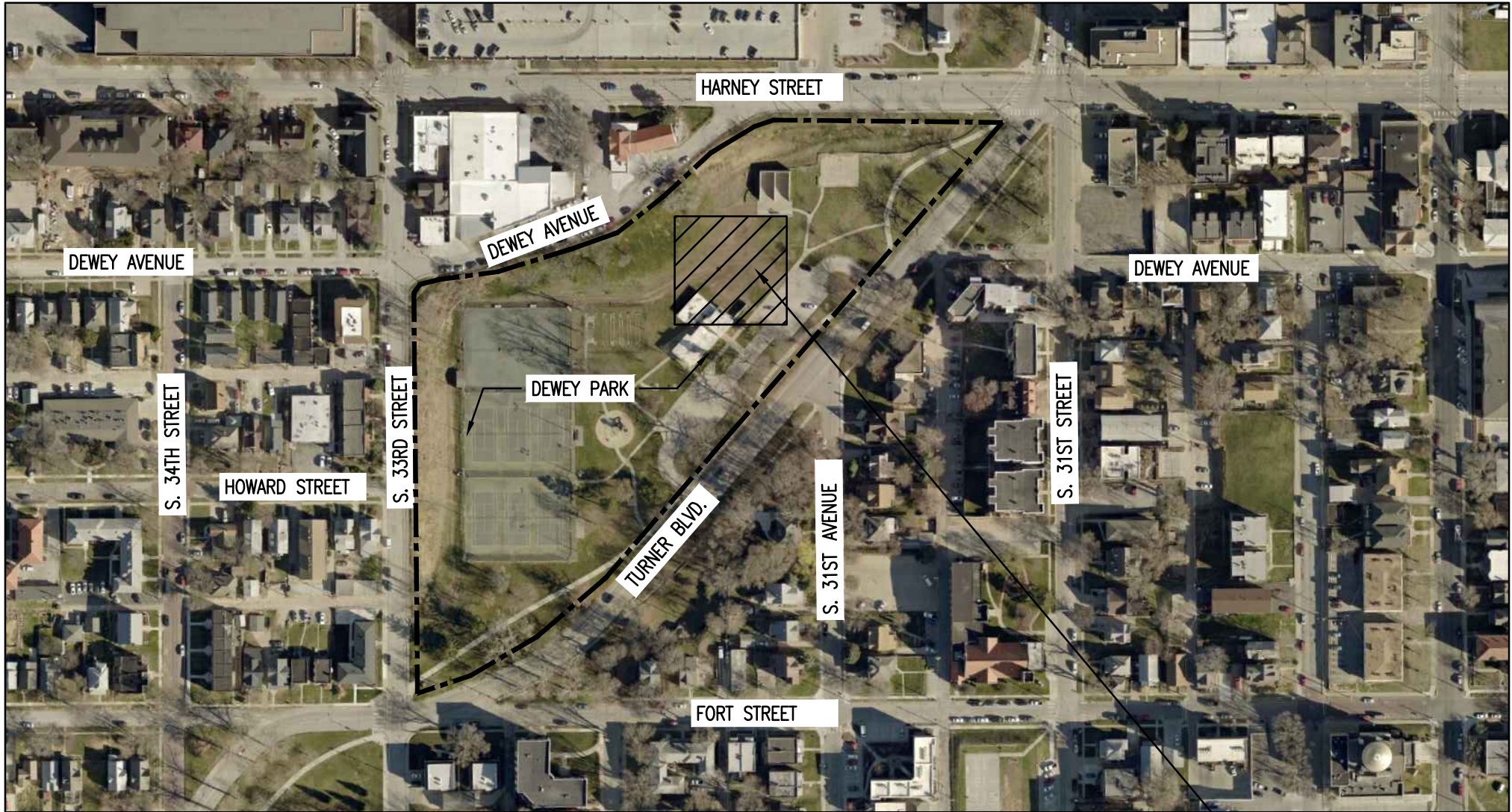
The Dewey Dog Park is construction of a new dog park adjacent to the existing Dewey Park Community Center. The dog park is an "urban" styled dog park and will feature synthetic turf, perimeter fencing, concrete paving, water features, shade canopies, and benches. The new dog park will be approximately 10,000 square feet and is divided up into an all dog area and a small dog area.

The dog park's location will benefit the increased residential market of Midtown and the Blackstone neighborhoods.

City funding will come from the park's departments CIP and also other smaller donations for local groups such as the Rotary Club.

This project is supported by the Parks Element of the City's Master Plan. A primary goal as stated in the Parks Element is: *"Provide public amenities that enhance the city's image"*.

Project Timeline: The project has been bid and a contractor is hired. Construction will not start until July of 2019 with completion in the early fall of 2019.

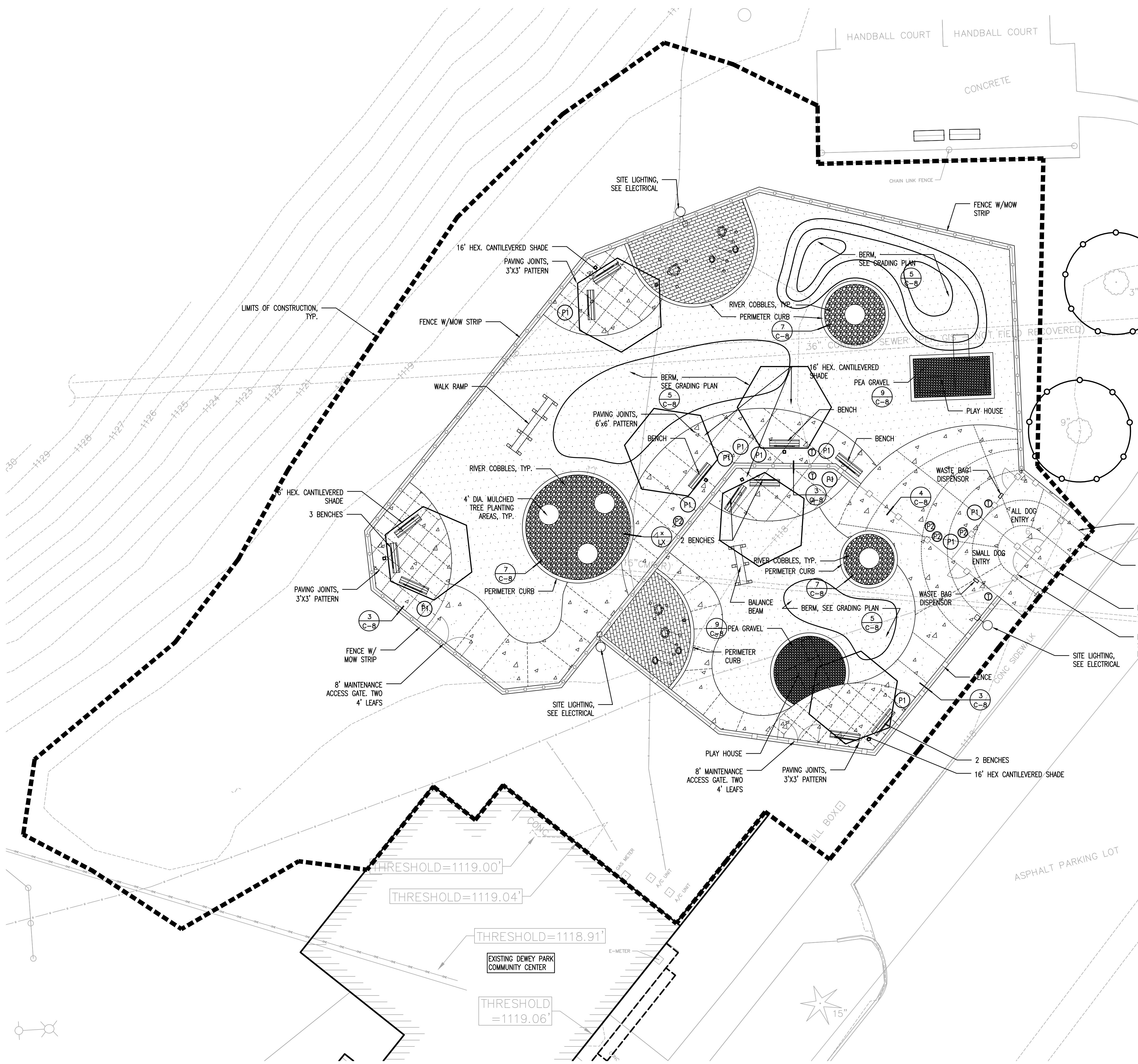


DEWEY PARK: VICINITY MAP

NOT TO SCALE



PROJECT LOCATION



KEY:

- SYNTHETIC TURF, SEE SHEET C-6 FOR DETAILS
- 5" THICK CONCRETE PAVEMENT (1.2 C-B)
- 5" THICK STAMPED PATTERN COLORED CONCRETE, SEE SPECIFICATIONS FOR COLOR AND PATTERN (1.2 C-B) REMOVED FOR 9/26/18 PLAN SET
- PERVIOUS PAVERS, SEE SPECIFICATIONS FOR COLOR AND PATTERN. SEE SHEET C-X FOR DETAILS (8 C-B)
- 4"-8" DIA. RIVER COBBLES (7 C-B)
- PEA GRAVEL (9 C-B) DETAIL ADDED FOR 9/26/18 PLAN SET
- TRASH RECEPTACLE
- PLANTER, TYPE 1
- PLANTER, TYPE 2
- LIMESTONE BOULDERS -4 BOULDERS THAT ARE APPROX. 30"x30"x24" -4 BOULDERS THAT ARE APPROX. 24"x24"x18" (6 C-B)

- NOTES:
- A. THE WORK SHALL CONFORM WITH THE PROJECT SPECIFICATIONS.
 - B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS ON THE FENCING, DOG AGILITY ITEMS, PLANTERS, CANTILEVERED SHADES AND PAVERS.
 - C. SEE SHEET C-6, TURF ATTACHMENT PLAN, FOR DETAILING OF CONCRETE PAVEMENTS AND CURBING FOR THE TURF ATTACHMENT.

PARKS
RECREATION
& UTILITIES
1819 Fernam St. # 701
Omaha, Ne. 68183-0701
(402) 444-5900

SITE PLAN

DOG PARK CONSTRUCTION ADDRESS
OMAHA, NEBRASKA

DRAWING NAME:

DRAWING NO.

C-1

Recreation Area Development Program – Application Form



Project name Flanagan Lake Playground

Project location (attach location map) Flanagan Lake, 168th & Ida St.

Sponsor organization City of Omaha Parks & Recreation

Sponsor address 1819 Farnam St., Ste. 701

City Omaha State NE ZIP 68183

Contact person John Williams

Title Park Planner II

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

Description of project (attach additional sheets as needed)

See attached.

Total estimated cost \$ 524,000.00

Cost share request \$ 50,000.00


Signature

March 22, 2019

Date

Park Planner II

Title

Flanagan Lake Playground

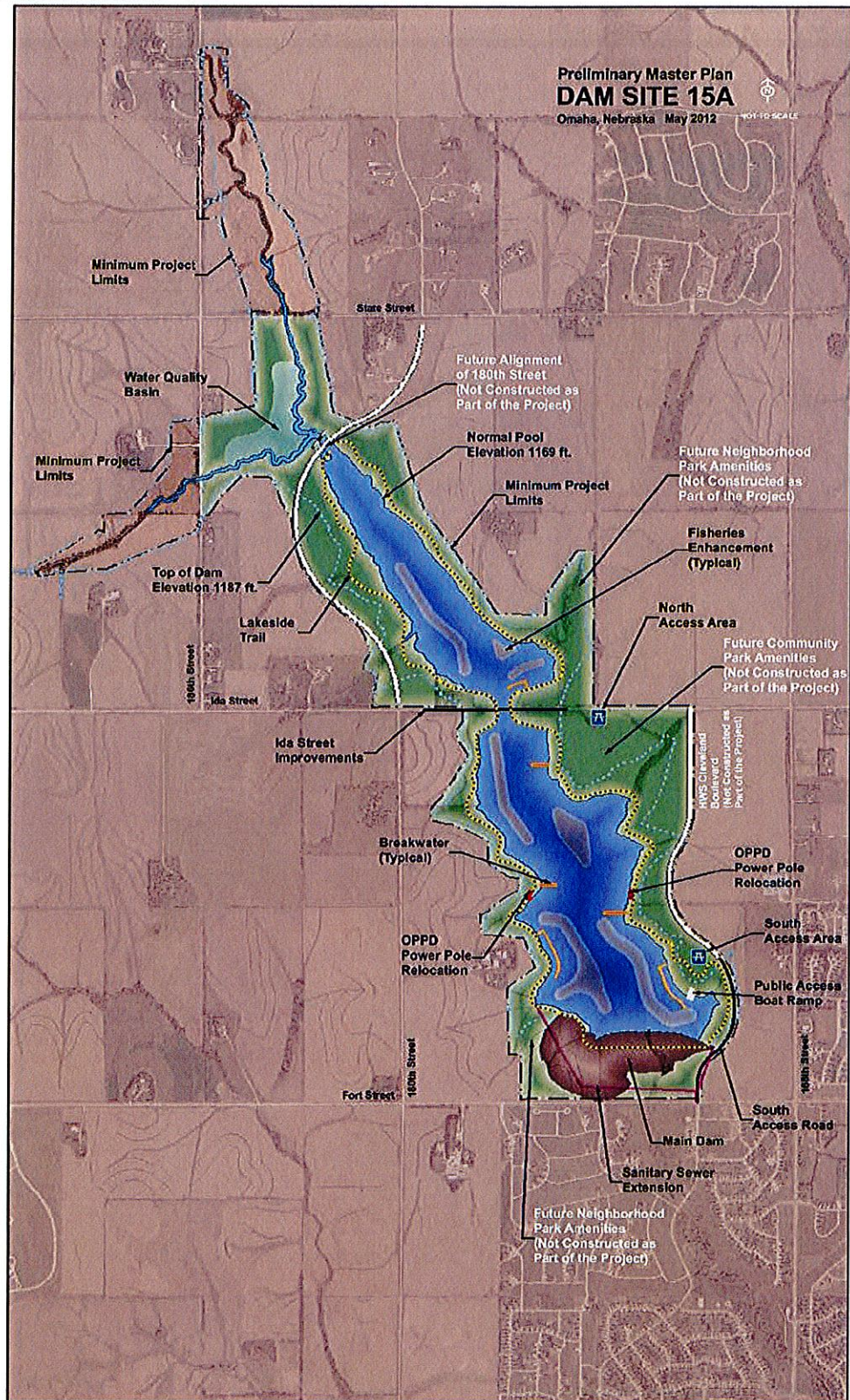
Description of Project:

The Flanagan Lake Playground is located in the community park area of the Flanagan Lake Recreation Area (see attached master plan drawing). Flanagan Lake (Dam Site 15A) was completed in 2018, with funding from the Papio-Missouri Natural Resources District. The playground will include a play structure, hill slide, swings, and other play equipment, as well as seating areas, accessible walks and additional parking (see attached layout drawing and playground renderings).

City funding will come from Park Bonds designated for the Suburban Park Master Plan Development in the City's Capital Improvement Program (attached pages pertain to Flanagan Lake and future dam sites). The total cost will be \$524,000 per the signed agreement with Dostal Construction Co., Inc.

Project timeline: Project was bid in September 2018. Construction will begin in Spring 2019, and is scheduled to be completed by June 15, 2019.

Figure 5. Dam Site 15A Preliminary Recreation Plan, Roadway Alignments and Fishery Enhancements



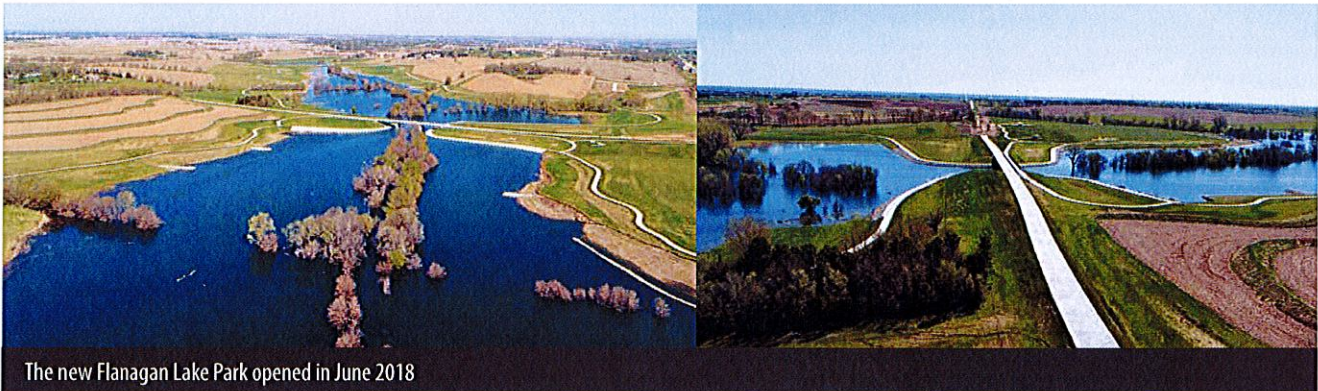
2011P509 – Suburban Park Master Plan Development

Change from previous CIP: Revised Funding

This project continues the implementation of the Suburban Park Master Plan by designating funds for the development of recreational facilities associated with dam sites constructed by the Papio-Missouri River Natural Resources District. Planned projects for 2018 include the construction of the recreation facilities associated with the recently completed Flanagan Lake (dam site 15A). The initial phase of improvements will include a playground, additional parking and trail connections at the north access off of Ida Street. It is anticipated these improvements will be in place by late fall 2018. Future funding is set aside for later phases of improvements at Flanagan Lake and for future dam sites.

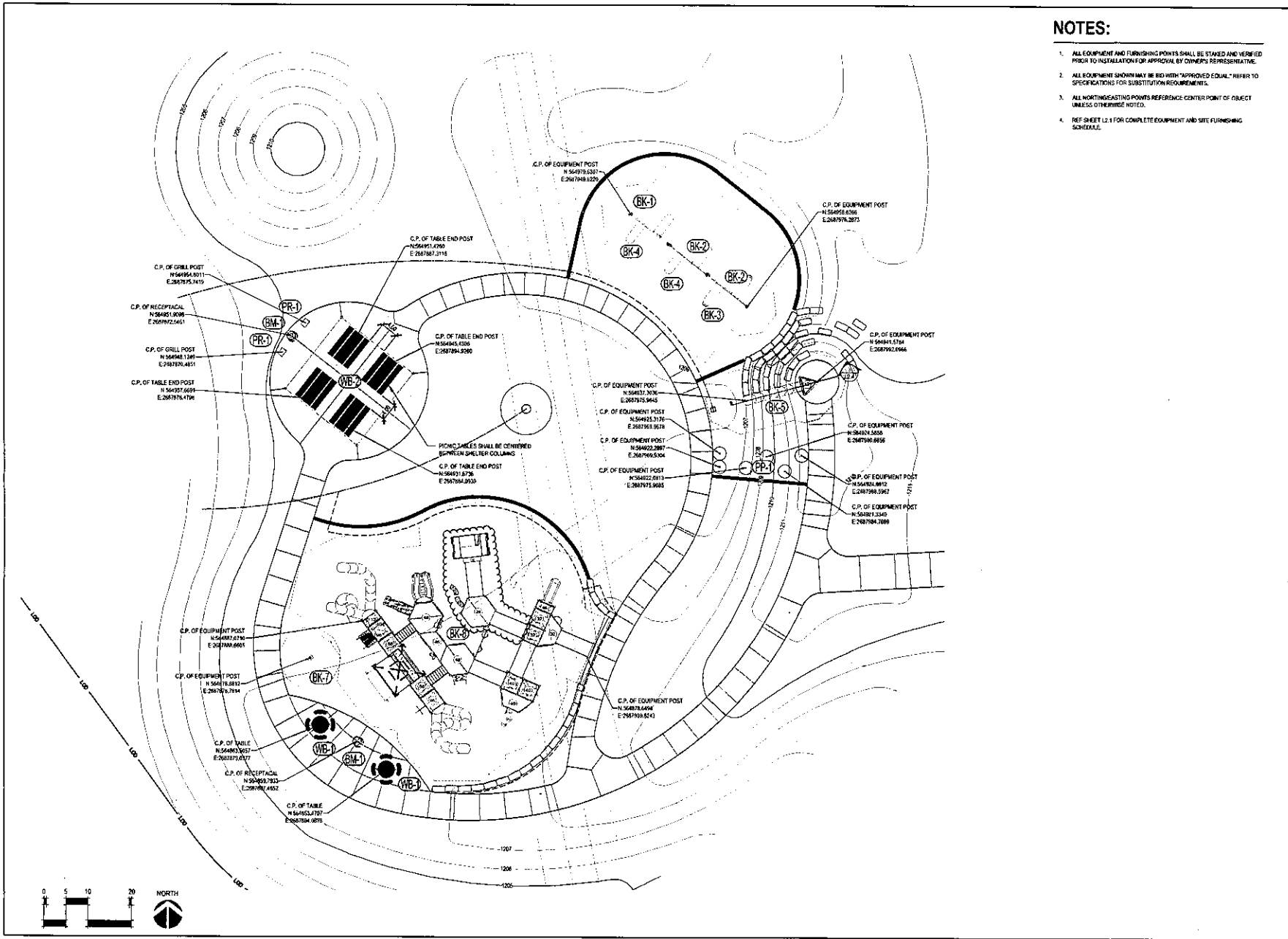


The City will construct a playground at Flanagan Lake Park near the Ida St access.



The new Flanagan Lake Park opened in June 2018

Estimated Total Cost	Source of Funds	2017 Expend- iture	2018 Appro- priated	2019-2024 Capital Budget						2019- 2024 Total
				2019	2020	2021	2022	2023	2024	
	PRB-14	-	300	-	-	-	-	-	-	-
	PRB-18	-	-	-	100	50	100	50	-	300
	FPRB	-	-	-	-	-	-	-	50	50
Ongoing	TOTAL	-	300	-	100	50	100	50	50	350



© Copyright 2018

Lake Flanagan Park Playground & Parking Lot

OMAHA, NEBRASKA



LAC# NO-202022005 KS-03

2201 Main Street, Suite 100 1111 N. 13th Street, Suite 110
Kansas City, Missouri 64105 Olathe, Nebraska 66150
P 816-758-6650 F 402-553-6492

www.vireo.com



FINAL BID DOCUMENTS

Revision Number	Description	Date

AUGUST 14, 2018 P-1000
Date Project Number

WJ TB
Drawn by Checked by

LSK EQUIPMENT PLAN ALT
Per Name

EQUIPMENT PLAN ALT

L2.0A

Recreation Area Development Program – Application Form

Project name New 25th Street Community Park Shelter and Pad

Project location (attach location map) G street and new 25th 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 Building and Grounds / Parks and Recreation Director

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

Description of project (attach additional sheets as needed)

Purchase and construction of park shelter and concrete pad in new city park underdeveloped near G Street and 25th. Refer to attached project description and map.

Total estimated cost \$ 29,339

Cost share request \$ 14,669.50


Signature

03/11/2019

Date

Rod Koch, Mayor, South Sioux City

Title

New 25th Street Community Park

Project Description

As part of its comprehensive parks and recreation plan, the City of South Sioux City is planning to construct a new city park on the southeast side of town, in an area formerly known as the Old Tree Farm. This park is located on city-owned land, in an area of town where no other parks are located and where additional housing growth is anticipated for the area.

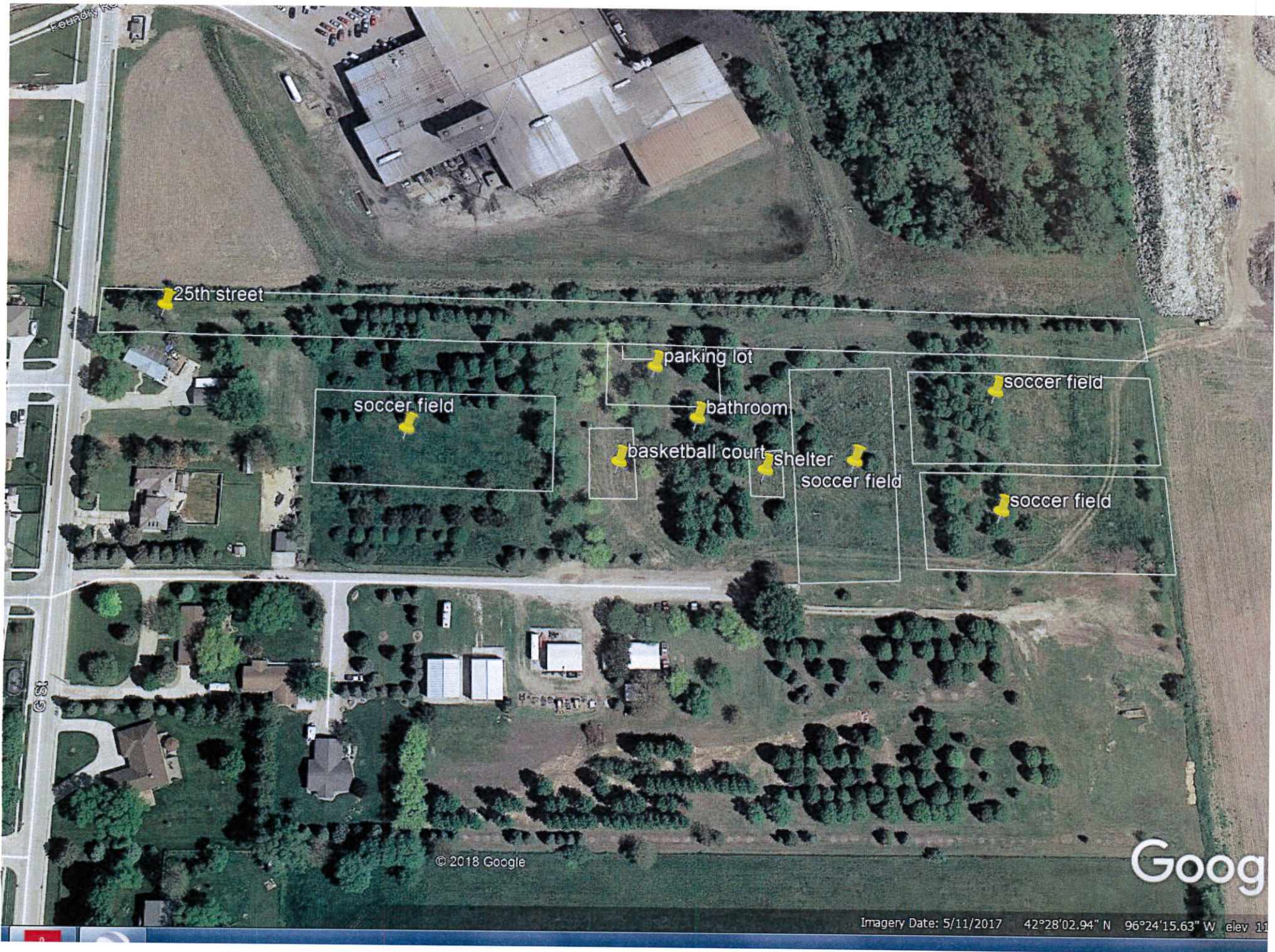
This Spring the park will be transformed into four soccer fields, a basketball court. An access road will be constructed (25th Street), along with construction of parking area and field readiness.

This proposed project would construct a shelter house for the newly designated city park. A concrete 24' x 40' pad, 5" thick will anchor the 20" x 36" shelter. The Americana Illini Shelter has a 20'x30'x8' eave height, 10-post steel powdered coated frame with 24" roof pans, extruded ridge cap fascia / gutter. Scupper drainage system, with Standard Americana color frame.

Project designs attached to this project proposal outlines the land, design layout of the fields. Bid pricing has been received to address the following budget.

Project Budget

2019 NRD - Recreation Development		Date:	3/4/2019
Concrete Base Platform /Labor to erect shelter	\$ 11,514.00		
Outdoor Rec Products Option 2			
Shelter	\$ 16,100.00		
Freight	\$ 1,725.00		
TOTAL	\$ 29,339.00		
NRD Share @50%	\$ 14,669.50	50%	
City Share @50%	\$ 14,669.50	50%	



25th street

soccer field

parking lot

bathroom

basketball court

shelter

soccer field

soccer field

soccer field

© 2018 Google

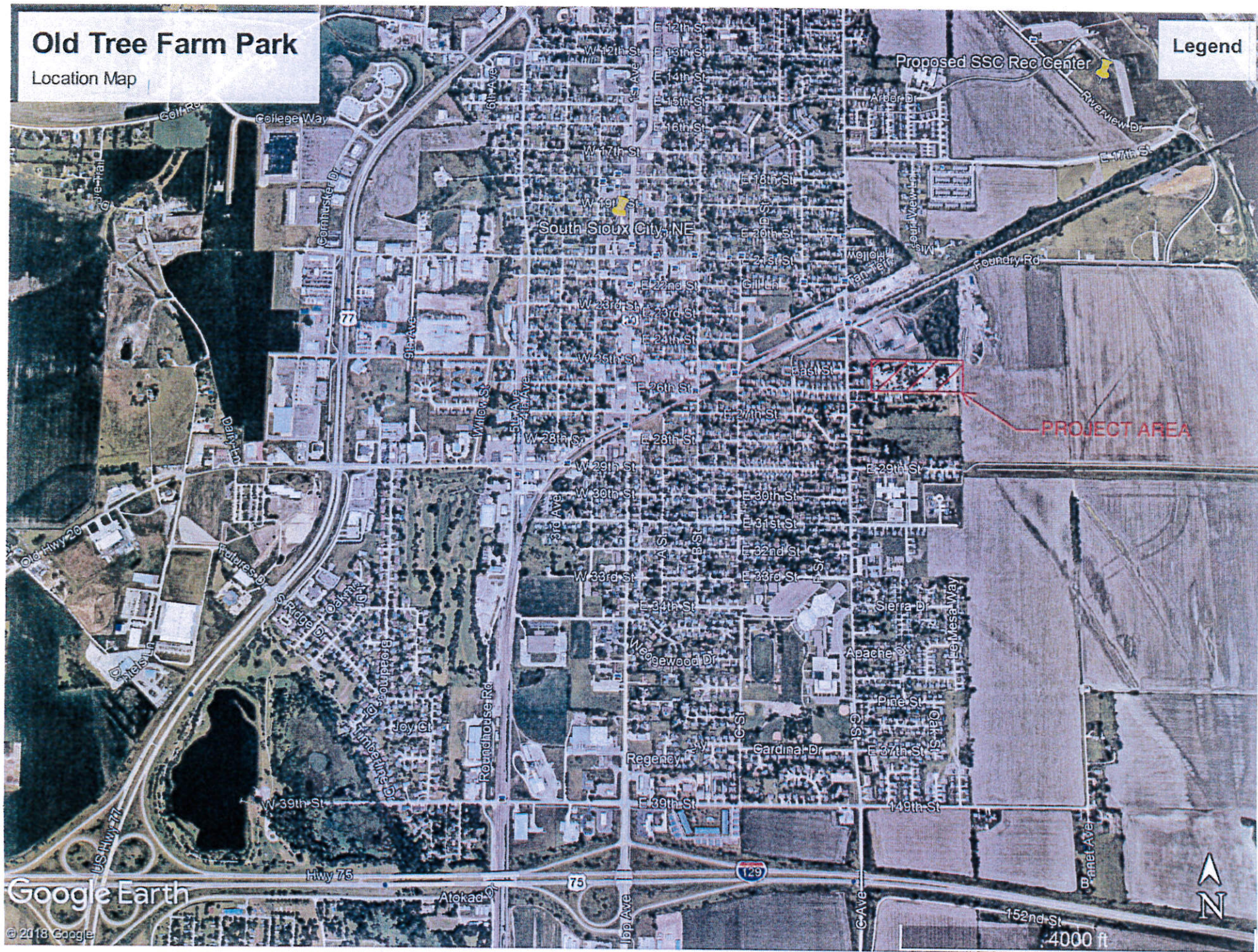
Goog

Imagery Date: 5/11/2017 42°28'02.94" N 96°24'15.63" W elev 11

Old Tree Farm Park

Location Map

Legend



PAPIO-MISSOURI RIVER
NATURAL
RESOURCES
DISTRICT



8901 S. 154th Street
Omaha, NE 68138-3621
402-444-6222
www.papionrd.org

Trails Assistance Program – Application Form

Project name WEHRSPANN LAKE TRAIL
Project location (attach location map) GRETNA TO WEHRSPANN
Sponsor organization CITY OF GRETNA
Sponsor address P.O. BOX 69
City GRETNA State NE ZIP 68028
Contact person DAN GIITTINGER
Title DEVELOPMENT SERVICES DIRECTOR
Email address daniel@cityofgretna.com Daytime phone 402-332-3336 x202

Description of project (attach additional sheets as needed)

SEE SHEETS

Total estimated cost \$ 826,700.00

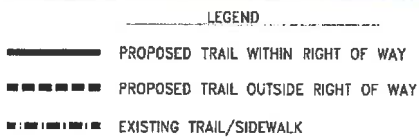
Cost share request \$ 82,670.00

Dan Giittinger
Signature

MARCH 4
Date

DEVELOPMENT SERVICES DIRECTOR
Title

OFFICE: 212-904-6000 (Toll-Free) 1-800-368-5848 / Fax: 212-904-6001 / Email: info@nyc.gov



**OLMSTED & PERRY
CONSULTING ENGINEERS INC.**
10750 PACIFIC STREET SUITE 232
OMAHA, NEBRASKA

**GRETNA TO
WHERSPANN LAKE
TRAIL PLAN
GRETNA, NEBRASKA**

27
 DRAWN BY: JMS
 CHECKED BY: ZF
 DESIGNED BY: JMS

CONCEPT LAYOUT PLAN

1 of 1
 SHEET NO.
 PROJECT NO.
 16004-34
 DATE
 JAN. 8, 2019

For more information on completing this form, refer to DR 530 I.

COPY
12-19-18

1. ☐ New ☐ Revised

State of Nebraska Department of Roads

Local Public Agency (LPA) Project Programming Request

For: ☐ City ☐ County ☐ Other

2. LPA Name (and County): Gretna (Sarpy)

3. Responsible Charge/Project Liaison:

TO BE COMPLETED BY NDOR

Control No.:

Project No.:

Project Name:

Project Coordinator:

Target Letting Date:

4. PURPOSE AND NEED/PROJECT DESCRIPTION

Purpose and Need of Proposed Project (What is the problem to be resolved?):

Latitude: 41 ° 9 ' 15" Longitude: 96 ° 12 ' 14" ☒ New/Reconstruction ☐ Maintenance ☐ Other

Road, Street, Trail, Historical Renovation, Other	From	To	Length	National Functional Classification	National Highway System (Yes or No)

Detailed Project Description (Location of Proposed Project, Logical Termini Justification, Location Map, Typical Cross Sections, etc.; attach any additional sheets necessary):

5. FUNDING TYPE: ☐ STP ☐ BR ☐ HSIP ☐ TA ☐

6. ESTIMATED PROJECT FUNDING (Attach supporting documentation for estimates)

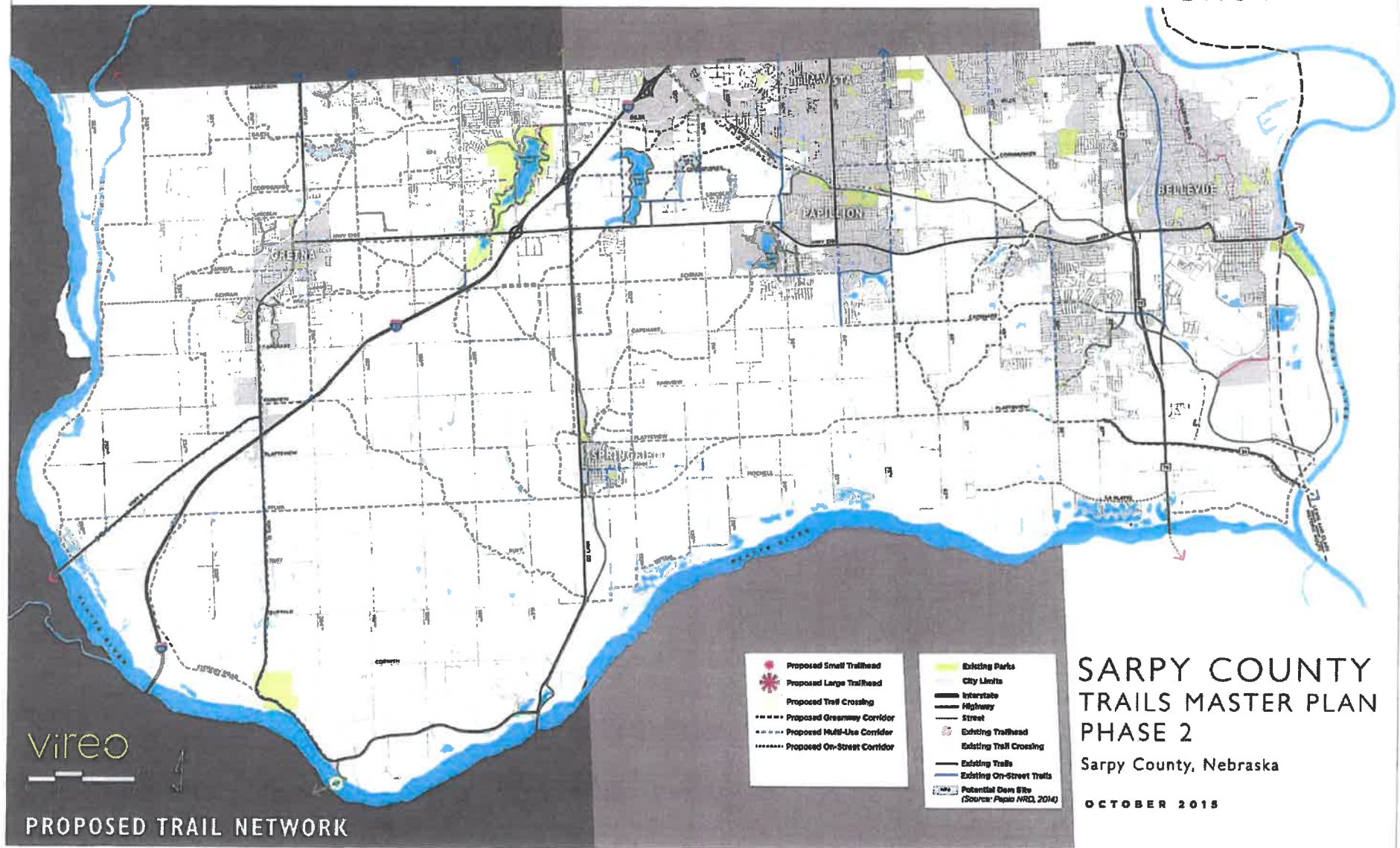
	FFY of TIP/STIP	Federal	Local Match	Nonparticipating	Other	Total
7. PE Phase	2020					
a. PE		49,280.00	12,320.00			61,600.00
b. NEPA		12,000.00	3,000.00			15,000.00
c. Final Design	2020					0.00
d. RC						0.00
e. NDOR		8,000.00	2,000.00			10,000.00
PE Subtotal		\$0.00	\$0.00	\$0.00	\$0.00	\$77,600.00
8. ROW		16,000.00	4,000.00			20,000.00
9. Utilities						0.00
10. Construction		517,600.00	129,400.00			647,000.00
11. CE Phase						
a. CE		59,400.00	14,860.00			74,300.00
b. RC						0.00
c. NDOR		6,240.00	1,560.00			7,800.00
CE Total		\$0.00	\$0.00	\$0.00	\$0.00	\$84,200.00
12. TOTAL		\$0.00	\$0.00	\$0.00	\$0.00	\$826,700.00

The preliminary plan of trail routings was then prepared. Trail routes created a county-wide inter-connected system linking each community and most recreational, educational and cultural destinations. The trail system adjoins municipal limits where each city's individual trail plan denotes a trail connection. More detailed trail routing inside each municipal area is then governed by that municipality's trail plan.

WEST

CENTRAL

EAST



Trails Assistance Program – Application Form



Project name North Omaha Trail Project

Project location (attach location map) Parallel to Hwy 75, crossing at Pratt Street

Sponsor organization City of Omaha, Planning Department

Sponsor address 1819 Farnam Street, Suite 1111

City Omaha State NE ZIP 68183

Contact person Manuel Cook

Title Neighborhood Planner

Email address manuel.cook@cityofomaha.org Daytime phone 402-444-5150 ex 2012

Description of project (attach additional sheets as needed)

See attached narrative.

Total estimated cost \$ 1,022,500 Cost share request \$ 292,418

Manuel C. Cook
Signature

2/22/2019
Date

Neighborhood Planner
Title

The City of Omaha Planning Department requests matching funds in the amount of \$292,418 to assist in the design and construction of the North Omaha Trail Project. This project will result in the construction of a multi-modal trail, creating a local amenity for North Omaha neighborhoods and communities while providing recreational opportunities and increased access to existing parks, green spaces, and natural areas. Additionally, this multimodal trail will act as a spine in the construction of a larger network of multi-modal routes which will link *historically redlined*, economically distressed communities to the City's redeveloping downtown core and riverfront projects, creating opportunities for both community and economic development. Moreover, the North Omaha Trail Project would fulfill components of several existing plans while meeting the community's desire for improved multimodal infrastructure and a safer pedestrian and cyclist experience.

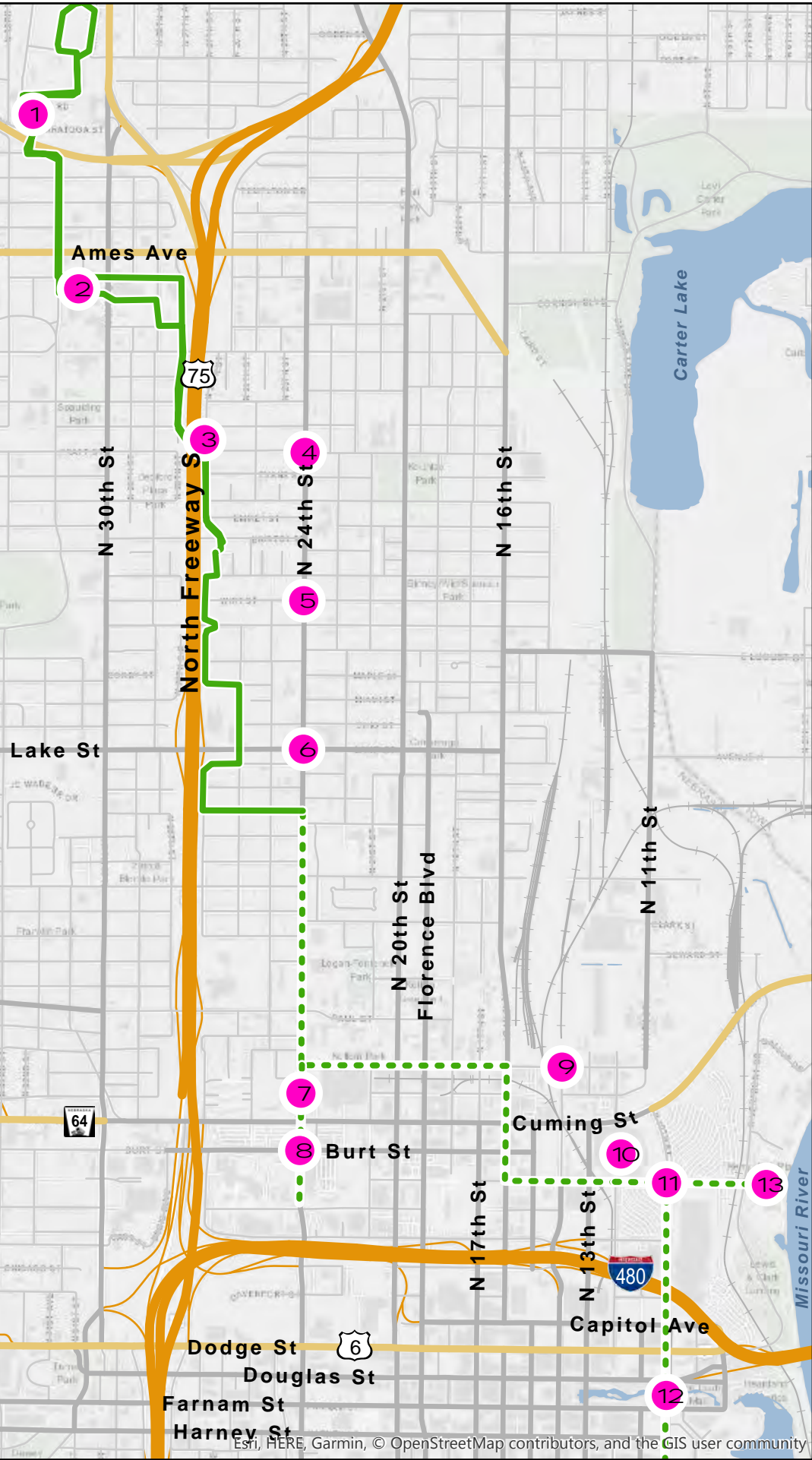
The basis and momentum for the development of this multi-modal trail stems from both recent and historical community engagement. References to a Multi-modal trail can be found on page 45 and 48 of the The City of Omaha Master Plan, page 128 of the North Omaha Redevelopment Project, and page 47 of the Village Revitalization Plan. All of these plans were composed based on extensive community engagement. More recent work in the City's target revitalization area, Neighborhood Action and Fact, has revealed strong local support for safer and more accommodating bicycle and pedestrian infrastructure while observations and counts have revealed significant pedestrian and cyclist activity.

With this community demand for improved multimodal infrastructure in mind, the planning Department entered into initial talks with NRD representatives about the potential for such a trail and the potential use of their Trails Assistance Program. After these conversations the Planning Department used available Community Development Block Grant (CDBG) funds for the removal of overgrowth along Highway 75 making necessary landscaping improvements for future trail construction and immediately improving the areas perceived safety. Additionally in preparation of future trail construction, Planning Department applied for and received technical assistance from National Parks Service to develop conceptual renderings, cross sections, and route of a multimodal system with a recreational trail along Highway 75 at its heart.

With a conceptual route and preliminary landscaping completed, The City of Omaha Neighborhood Planning division received cost estimates for trail construction from Olsson Associates. These estimates placed the design and construction of the full 3.75 mile multimodal system at approximately \$1,916,700, and the design and construction of shorter 2 mile segment including off road facilities along Highway 75 and a connection to both the North Omaha transit station and Paxton Boulevard at approximately \$1,022,500.

Funds provided by the NRD in the amount of \$292,418 will match the amount spent by the the City of Omaha on preliminary landscaping and only be used to support construction of a recreational trail along Highway 75. The Sherwood Foundation has agreed to fund the additional costs for the construction of the recreational trail along Highway 75, the design and construction costs of the remaining 3.75 mile multimodal network, and the establishment of a maintenance endowment. This project would be a collaboration between the NRD, City of Omaha, National Parks Service, and the Sherwood Foundation and would leverage the areas unique bicycle friendly terrain, resulting in the most significant multimodal infrastructure project in North Omaha and a substantial investment into a area in great need of access to recreation and natural resources.

North Omaha Trail/ Bicycle Highway



Trail Segment Explored with National Parks

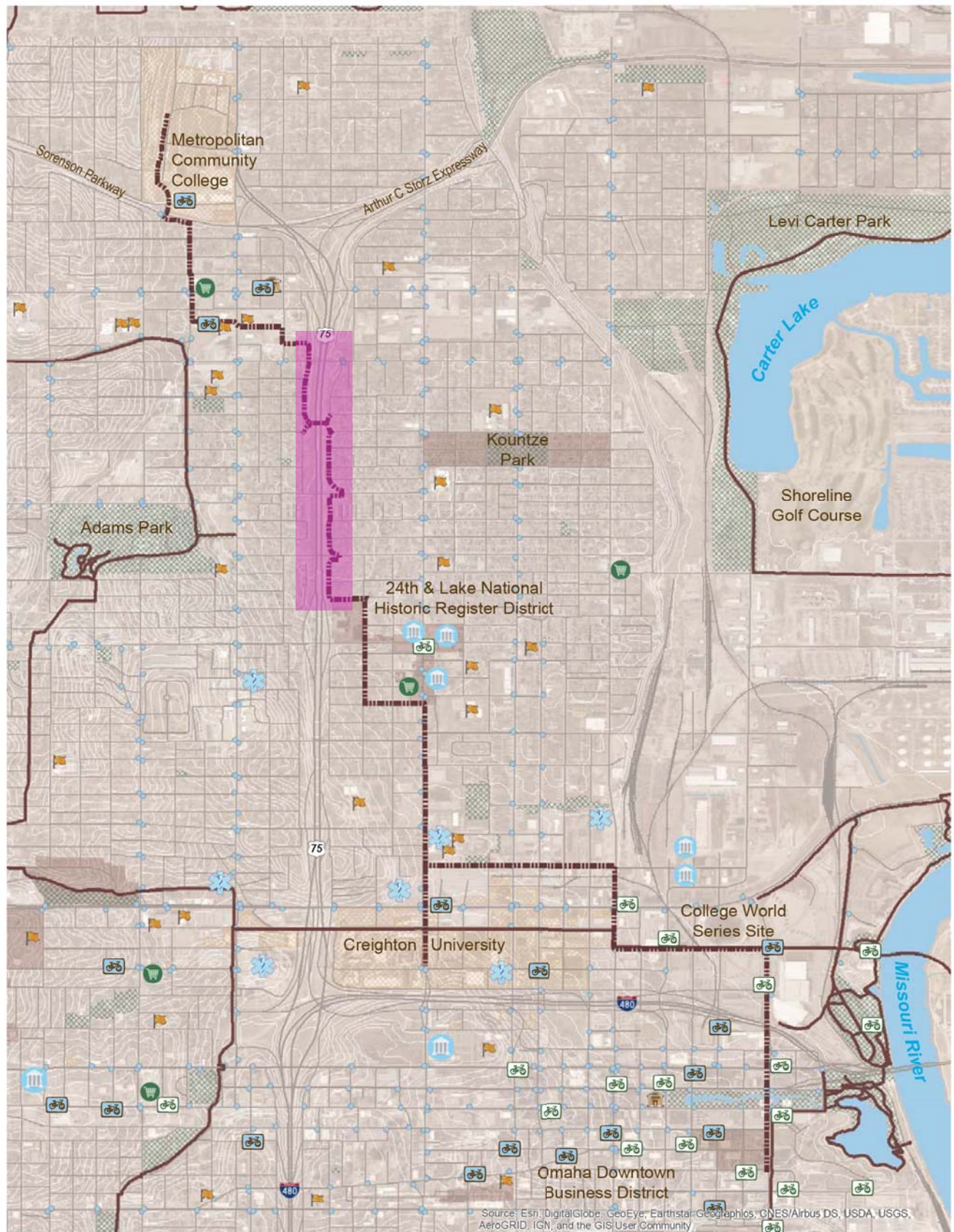
Potential Downtown /Riverfront extension

Local Anchors

- 1 - Metropolitan Community College
- 2 - North Omaha Transit Station
- 3 - Existing Pratt Street Bike/ Ped Bridge
- 4 - Neighborhood Action and Fact, neighborhood revitalization area
 - Salvation Army Community Center
 - King Science Middle School
- 5 - Goodwins Bakershop, and planned development
 - Church of God (Local Landark)
- 6 - 24th & Lake Creative Hub
 - Union for Contemporary Art
 - Omaha Small Business Network
 - Omaha Economic Development Corporation
 - Empowerment Network
- 7. CH Health Creighton University Medical Center
- 8 Creighton University
- 9 Makers District
- 10 TD Ameritrade Stadium
- 11. Planned landing of Bob Kerrey Pedestrian Bridge extension
- 12 Bob Kerrey Pedestrian Bridge (Link to Council Bluffs)
- 13 Gene Leahy Mall & Old Market



North Omaha Trail Context Map



- | | |
|------------------------------------|-------------------------|
| Future Heartland B-Cycle Stations | Schools |
| Current Heartland B-cycle Stations | Proposed Trail North |
| Library | Trails |
| Grocery | Bus Stops |
| Gallery/Museum | Parks |
| Clinic/Hospital | Historic Districts |
| | Colleges & Universities |

0 900 1,800 3,600 Feet



Trails Assistance Program – Application Form



Project name West Dodge Station Trail Improvements

Project location (attach location map) 192nd & Honeysuckle Drive

Sponsor organization SID 503, Silverleaf Estates / Residences at West Dodge Station

Sponsor address 11440 West Center Road

City Omaha State NE ZIP 68144

Contact person Robert F. Czerwinski

Title Municipal Services Department Manager

Email address BCzerwinski@EACG.com Daytime phone 402.510.1329

Description of project (attach additional sheets as needed)

Complete a portion of the Lincoln Highway Trail System near Elkhorn,
running parallel to the West Papio Creek.

Total estimated cost \$ 488,052 Cost share request \$ 244,026

Robert F. Czerwinski 3/19/2019
Signature Date

Municipal Services Dept. Manager
Title

APPROXIMATE QUANTITIES - OLD LINCOLN HIGHWAY TRAIL ONLY

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	Unit Price	Total
TRAIL CONSTRUCTION					
1	CLEARING AND GRUBBING - GENERAL	1	LS	\$75,033.00	\$75,033.00
2	CLEARING AND GRUBBING - HOURLY	40	HR	\$166.00	\$6,640.00
3	CLEARING AND GRUBBING TREES OVER 9" TO 18" DIAMETER	20	EA	\$333.00	\$6,660.00
4	CLEARING AND GRUBBING TREES OVER 18" TO 27" DIAMETER	10	EA	\$388.00	\$3,880.00
5	CLEARING AND GRUBBING TREES OVER 27" TO 36" DIAMETER	5	EA	\$499.00	\$2,495.00
7	EXCAVATION ON-SITE (ESTABLISHED QUANTITY)	177	CY	\$3.88	\$686.76
8	EMBANKMENT - BORROW (ESTABLISHED QUANTITY)	1,732	CY	\$11.30	\$19,571.60
10	CONSTRUCT 6" PCC SIDEWALK (W/ SUBGRADE PREP)	44,863	SF	\$4.83	\$216,688.29
12	CONSTRUCT 18" STORM SEWER PIPE	108	LF	\$45.15	\$4,876.20
13	CONSTRUCT 18" FLARED END SECTION	2	EA	\$449.00	\$898.00
14	CONSTRUCT AREA INLET - TYPE II	1	EA	\$3,437.00	\$3,437.00
15	CONSTRUCT 18" STORM SEWER TAP	1	EA	\$675.00	\$675.00
16	CONSTRUCT TYPE B RIP-RAP	12	TON	\$79.15	\$949.80
20	6' PARK BENCH	4	EA	\$816.00	\$3,264.00
21	5" CONCRETE BENCH PAD	128	SF	\$6.64	\$849.92
22	INSTALL PARK SIGN, PROVIDED BY CITY	8	EA	\$180.00	\$1,440.00
23	SOIL CONDITIONING	135	CY	\$31.05	\$4,191.75
25	INSTALL SEEDING - TYPE SUPER TURF II	3.0	AC	\$1,775.00	\$5,325.00
26	INSTALL SEEDING - TYPE NRD MIX	1.0	AC	\$1,387.00	\$1,387.00
27	INSTALL NORTH AMERICAN GREEN S-150 EROSION CONTROL MATTING	15,000	SY	\$1.05	\$15,750.00
A	INCREASE IN 2019 LABOR & CONCRETE	1	LS	\$12,645.00	\$12,645.00
					\$387,343.32
					Contingencies (5% +/-)
					\$19,367.17
TOTAL CONSTRUCTION COSTS					\$406,710.49
SOFT COSTS (20%)					\$ 81,342.10
TOTAL PROJECT COSTS					\$488,052.58
NRD TRAIL ASSISTANCE GRANT (50% OF CONSTRUCTION COST)					\$ 244,026.29
PROJECT COST LESS NRD GRANT					\$ 244,026.29

Note: Bid item numbers not sequential because items not related to Old Lincoln Highway Trail have been removed.



Revisions	
2003.144.020	AN
03/19/2019	
Designed By	PCP
Drawn By	NOLE
Scale	
Sheet	1 of 1

LOCATION MAP

SILVERLEAF ESTATES /
WEST DODGE STATION
SID 503
DOUGLAS COUNTY, NEBRASKA



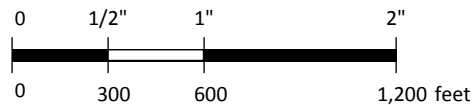
E & A CONSULTING GROUP, INC.
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West Dodge Station Trail



1 : 7,200
1 = 600



This map is a user-generated, static output. It is for reference only. Data on this map may not be accurate, current, or otherwise reliable. It is for informational purposes only, and may not be suitable for legal, engineering, or surveying purposes.

Douglas County GIS



1819 Farnam St
Suite 402
Omaha NE, 68183

Trails Assistance Program – Application Form

Project name 2019 NRD Trails Assistance - 29th Street Flatwater Crossing

Project location (attach location map) 29th Street Eastside drainageway - Refer to map

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 Grounds & Building / Parks and Recreation Director

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

Description of project (attach additional sheets as needed)

Completion of 29th Street improvements with trails, signage,
landscaping. Please refer to attached description.

Total estimated cost \$ 337,810 Cost share request \$ 164,505


Signature

3/11/2019
Date

Mayor, City of South Sioux City
Title

In 2018, through efforts of Papio Missouri NRD and the City of South Sioux City, the city was able to transform the 29th Street channel from its original paved condition into a natural storm water chain to improve water quality for the regional storm water system. The resulting work in 2018 offers a meandering channel, sporadic pools, and wetland vegetation that not only convey storm water and filter out solids, but will eventually provide a high degree of aesthetic value once the area matures. This showcases an example of innovative storm water solutions for future area developments. We thank NRD for the funds to assist us in this channel construction.

Proposed Project – 29th Street Flatwater Crossing – Trails Assistance Program

This proposed trail project will connect 29th Street channel design with the existing trail, preserving the north side of the channel while connecting it with the neighborhood's pedestrian network. In addition, an accessible path will run along the chain's entire length, traversing up-and-down the side slopes allowing pedestrians the opportunity to experience the waterway and storm water treatment up-close. The path will transition to a raised boardwalk of durable material at waterway crossings. Interpretive signage will be utilized occasionally along the path as informative markers for pedestrians. The trail and path in tandem will provide an important link for residents both in the new neighborhood and adjacent existing neighborhoods to the west to the Missouri River and the planned greenway trails proposed along the riverfront.

Contained in this proposal is trail construction (boardwalk, overlook, bridge), and educational signage for native grasses, wetlands, NRD recognition along the pathway. The project is part of the city's overall trail, parks and recreation plan. The project will feature trail construction, grading, seeding, and landscaping (trees and bushes), bridges and walkways along with signage.

With the channel restoration portion of the project completed, the trails project, while providing a high degree of aesthetic value, becomes an amenity for the planned Flatwater Crossing neighborhood. It also showcases an example of innovative storm water solutions for future area developments.

Please refer to the following page for itemized proposed project budget per project engineer design estimates.

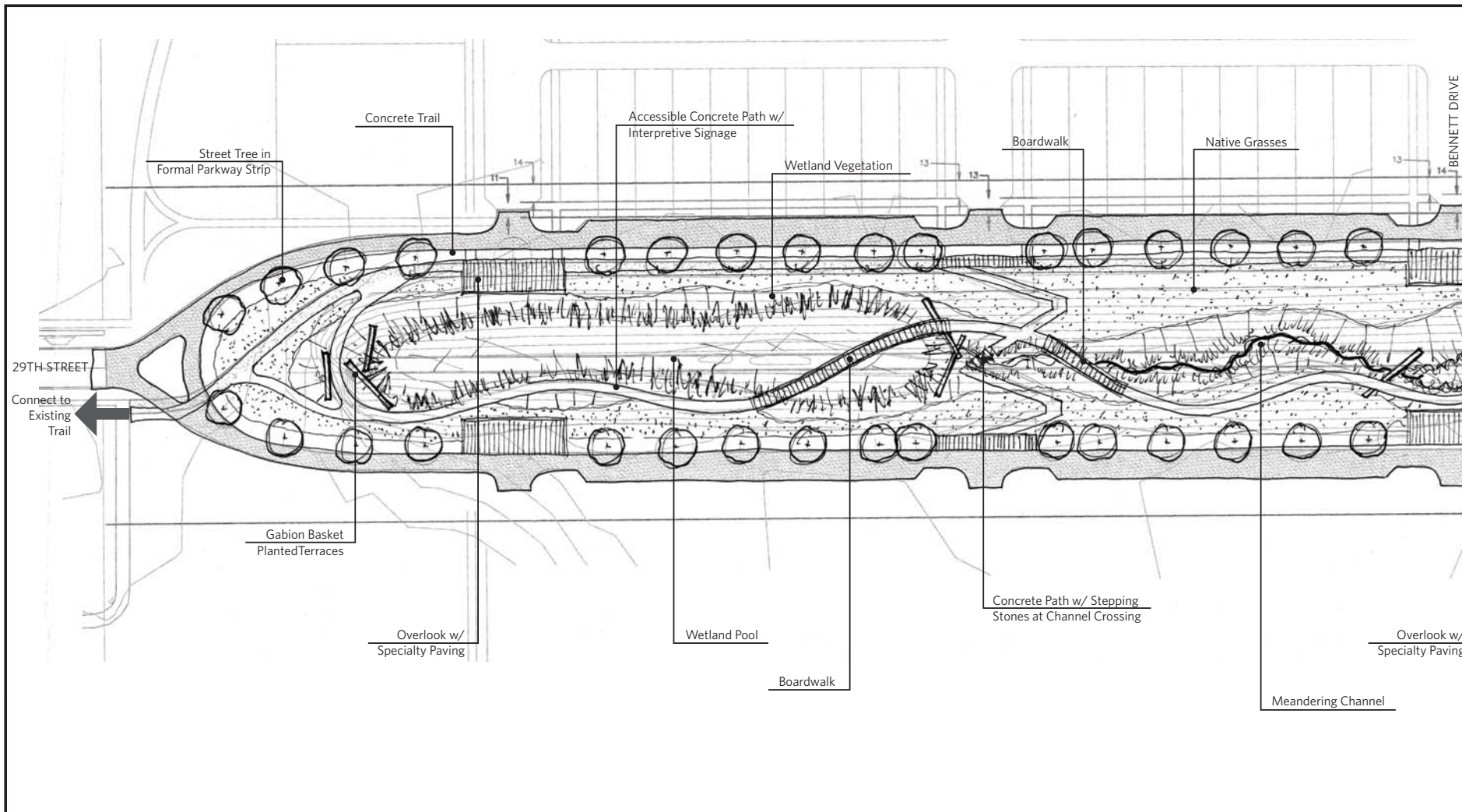
PROPOSED TRAILS

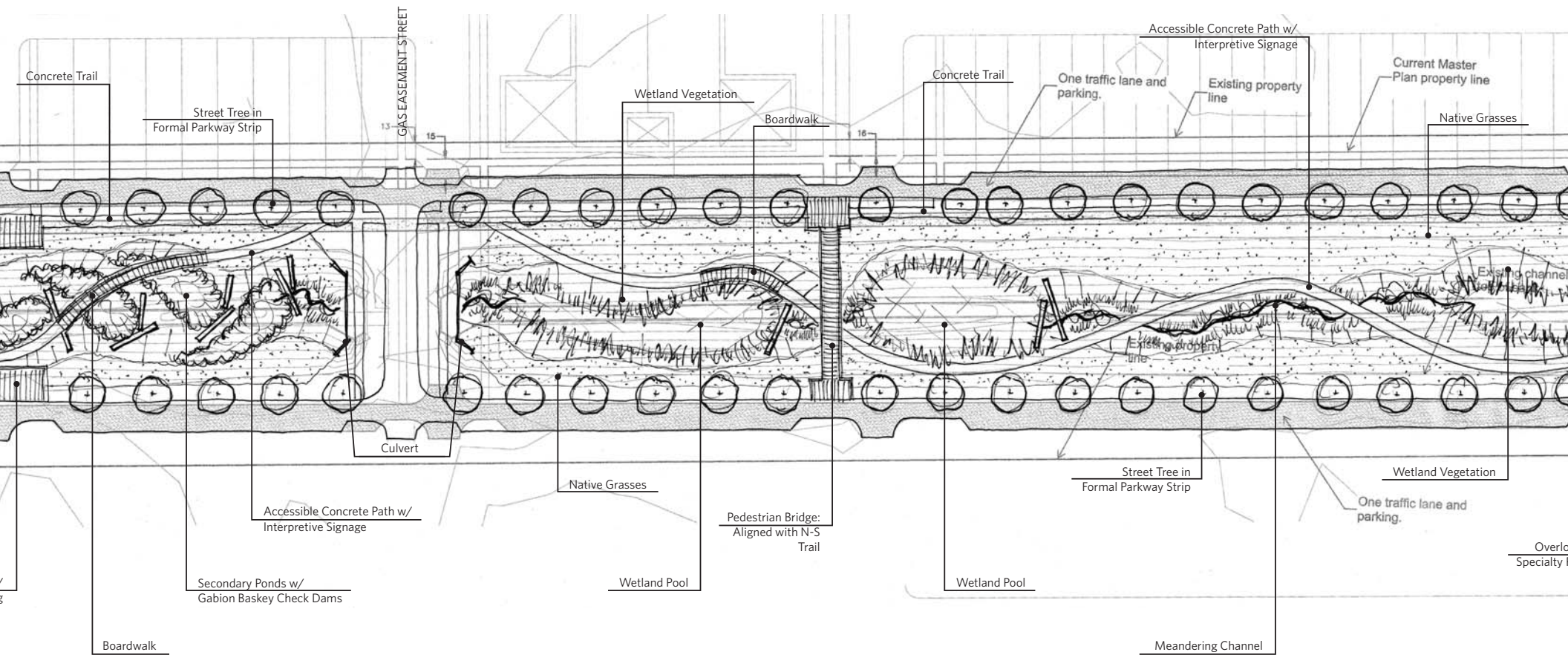
2019 NRD Project Proposal - Finishing Flatwater Crossing / 29th Street Channel

Date: 2/25/2018

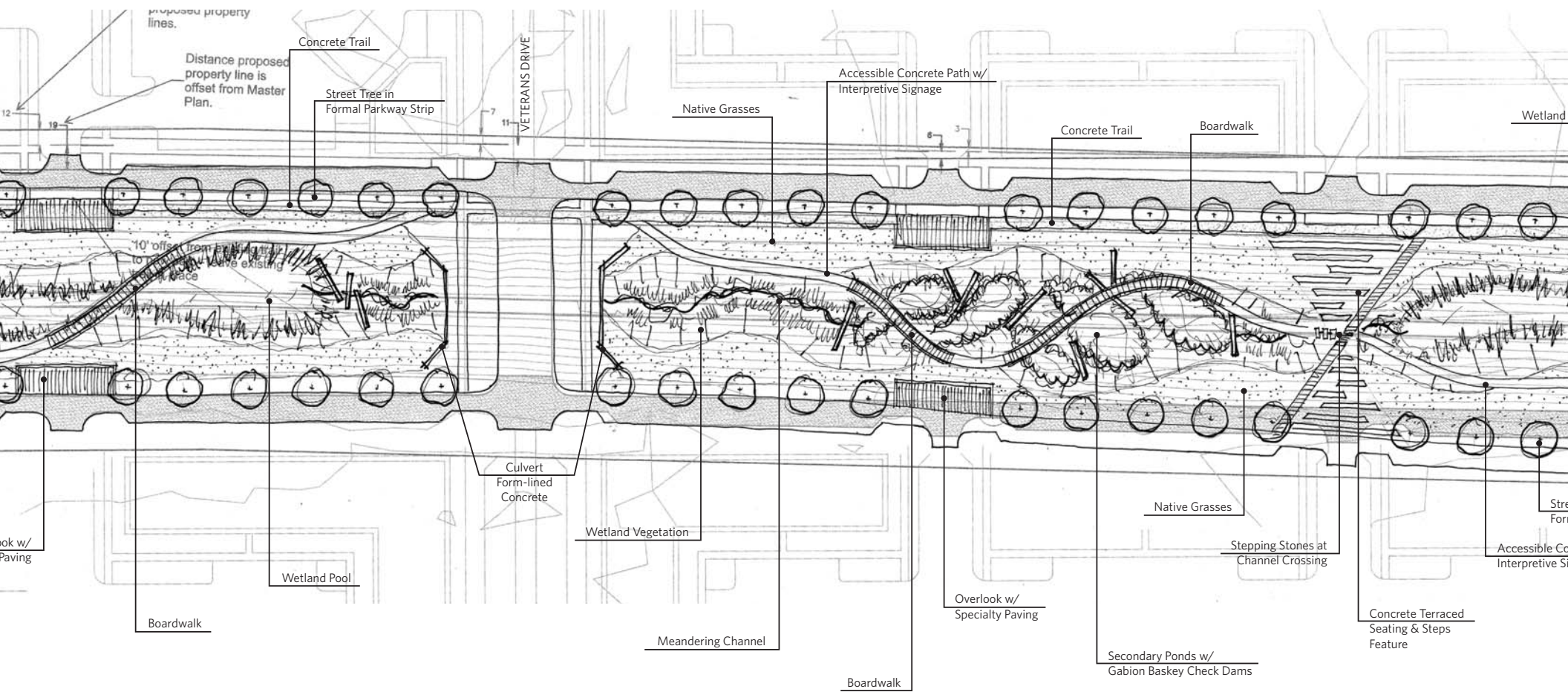
TRAILS

Item	Amount	Meas.	Unit Cost	COST SHARE
Accessible Concrete Path	9,000	SF	7	\$63,000
Accessible Stone Path	1,000	SF	8	\$8,000
Boardwalk	3,000	SF	15	\$45,000
Overlook Paving	4,000	SF	10	\$40,000
Pedestrian Bridge	1	LS	80,000	\$80,000
Retaining Wall	500	SF	18	\$9,000
Ledgestone	200	SF	20	\$4,000
Handrails	800	LF	12	\$9,600
Landscaping - Trees	150	ea avg	150	22,500
Landscaping – Bushes, grasses	40		250	10,000
Educational signage for native grasses, wetlands, NRD				8,000
Subtotal				\$299,100
Engineering 10%				29,910.00
Total				\$329,010
COST SHARE				
NRD	50%			164,505
City	50%			164,505

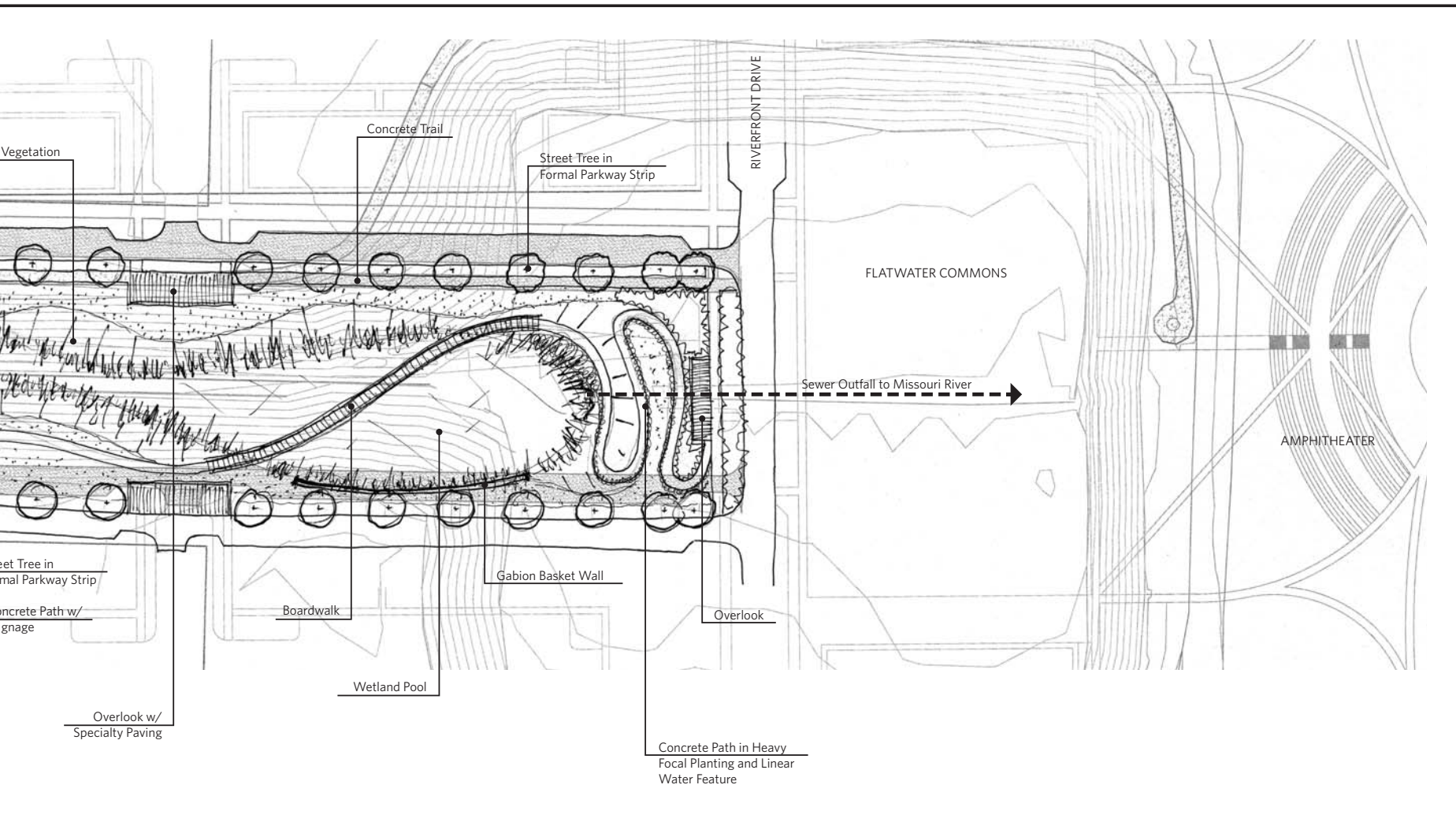




FLATWATER CROSSING - 29TH STREET S



STORMWATER CHAIN - CONCEPT PLAN



MARCH 2016