

MEMORANDUM

TO: Programs, Projects, and Operations Subcommittee
FROM: Eric Williams, Natural Resources Planner
SUBJECT: FY 2021 Urban Cost Share Programs

- Recreation Area Development Program
- Trails Assistance Program
- Flood Mitigation Assistance Program

DATE: May 7, 2020

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 FY 2021.

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.

No applications were received for FY 2021.

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.

Papillion, Trumble Park Playground Surface

The natural mulch utilized in the playground area will be replaced with a safer, longer lasting, poured-in-place rubber surface. This will allow the area to be utilized in very wet times, whereas after large rain events the existing surface becomes unusable.

South Sioux City, Soccer Field Paths

Scenic Park is has many facilities, include 15 soccer fields, and the existing grassy area between fields is difficult for some visitors to cross. This project will provide asphalt paving for walkways from the parking lot to and between the fields. The new surface will provide expanded accessibility to the fields.

South Sioux City, Splash Pad

Following the Comprehensive Plan update in 2017, South Sioux City is planning to construct a splash pad to provide expanded summer recreation opportunities. This type of facility provides water feature access for people with reduced mobility.

The FY 2020 budget included \$179,169 for projects in this program. The following table summarizes the FY 2021 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2020 Cost Share</u>
Papillion, Trumble Park Playground Surface	\$49,000	\$24,500
South Sioux City, Soccer Fields Paths	\$109,364	\$50,000
South Sioux City, Splash Pad	\$173,066	\$50,000
Total	\$331,430	\$124,500

- **It is recommended that the Subcommittee recommend to the Board of Directors that the applications from Papillion for \$24,500, and South Sioux City for \$50,000 and \$50,000, for a total of \$124,500, be approved, subject to funding in the FY 2021 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.

Omaha, Standing Bear Lake Floating Trail

This project will install a floating trail across Standing Bear Lake, between the south and north sides of the lake, to the east of 144th Street. Current users of the 144th Street Trail must use the Standing Bear Lake Trail in order to continue north or south, traveling a distance of 3.2 miles, or cross the lake on the very narrow shoulder of the roadway on 144th Street. The cost to extend a trail along the roadway would be very expensive, and the floating trail project accomplishes the same connectivity and recreation benefits at a much lower cost.

South Sioux City, Connecting School Trail

This project has been awarded a Safe Routes to School grant and will connect Covington and E.N. Swett elementary schools, and Raymond Park to the existing trail system. The railroad crossing at C Street will be upgraded, as well as existing sidewalk curb ramps. This project has been bid and awarded by NDOT, with construction scheduled to begin in the summer of 2020.

The FY 2020 budget included \$637,410 for projects in this program. The following table summarizes the FY 2021 applications.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2020 Cost Share</u>
Omaha, Standing Bear Lake Floating Trail	\$880,784	\$145,502
South Sioux City, Connecting School Trail	\$786,736	\$82,607
Total	\$1,667,520	\$228,109

- **It is recommended that the Subcommittee recommend to the Board of Directors that the applications from Omaha for \$145,502, and South Sioux City for \$82,607, for a total of \$228,109 be approved, subject to funding in the FY 2021 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 2021.

Flood Mitigation Assistance Program

South Sioux City, Westside Drainage Project

During frequent high water events, flooding occurs on the west side of the city due to the existing closed pipe storm sewers being overwhelmed in the area of Hwy 77 and 29th Street. The Westside Drainage Project will create an open channel and retention storage basin in the Old Silver Lake area to help manage runoff and flow during high water events. This secondary flow path would bypass the existing closed pipe system and additional flow would enter the retention facility. The city has submitted an HMGP application for funding from NEMA.

<u>Sponsor, Project</u>	<u>Total Estimated Cost</u>	<u>FY 2020 Cost Share</u>
South Sioux City, Westside Drainage	\$2,356,200	\$499,250
Total	\$2,356,200	\$499,250

- **It is recommended that the Subcommittee recommend to the Board of Directors that the application from South Sioux City for \$499,250 be approved, subject to funding in the FY 2021 Budget.**

Recreation Area Development Program – Application Form

Project name Trumble Park Playground Surface Renovation
Project location (attach location map) 501 Valley Road, Papillion, NE
Sponsor organization City of Papillion
Sponsor address 122 E. Third 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)

The natural mulch utilized in the playground area will be replaced with a safer, longer lasting,
poured-in-place rubber surface. This will allow this area to be utilized in very wet times, whereas,
after large rain events at this time, the surface becomes unusable.

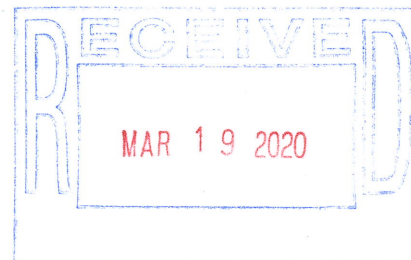
Total estimated cost \$ 49,000.00

Cost share request \$ 24,500.00

Tony Gowan
Signature

March 18, 2020
Date

Parks and Facilities Director
Title







Trails Assistance Program – Application Form

Project name Walkways for those with Mobility Issues in Scenic Park Soccer Complex

Project location (attach location map) Scenic Park Soccer Complex in South Sioux City

Sponsor organization City of South Sioux City

Sponsor address 1615 1st Avenue

City South Sioux City State NE ZIP 68776

Contact person Pat Somsy

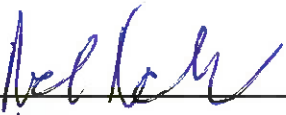
Title Grants Administrator

Email address psomsy@southsiouxcity.org Daytime phone 402-494-7502

Description of project (attach additional sheets as needed)

SEE ATTACHED SHEET FOR DESCRIPTION

Total estimated cost \$ 109,364.00 Cost share request \$ 54,682.00


Signature

March 19, 2020
Date

Mayor, South Sioux City
Title

Description of the Scenic Park Accessibility Walkway Project:

Scenic Park is comprised of 159 acres of recreation including a pool, a campground, baseball fields and 15 Soccer Fields in the Jeffrey Dible Complex. Currently, the soccer/rugby fields have grassy areas between each field, making it extremely difficult for anyone with mobility issues or the elderly with canes and walkers to get to one of the fields to watch a game or match. Further if we've had rain and wet weather, the walkways can become spongy and muddy.

Thousands of individuals participate and view the soccer and rugby games on a weekly basis throughout the warm weather months. Teams and their parents/grandparents come from a wide radius of towns around South Sioux City to compete in tournaments. The Siouxland Y holds numerous competitions at the park and all of the soccer teams in the area schedule regular practices there, as well. This park is also used for special events such as Cardinal Festival, Cinco de Mayo and many others.

The Scenic Park Accessibility Project will provide for 36,256 square feet (8 X 4532) of 4" average HMA (hot mix asphalt) paving connecting walkways and parking lots to the Soccer Fields and intertwining through and between each of the fields, per Knife River Construction proposal. (see map diagram) This project will provide a flat, smooth walking surface from the parking lot directly to one of the 15 fields in the complex. This will be an extreme benefit to those who are handicapped or to persons with mobility issues who were previously unable to navigate to any of the fields due to uncertain terrain and poor surface conditions.

We are seeking funds in the amount of \$54,682.00 towards the Walkways for Those With Mobility issues Project for Scenic Park that is estimated to cost \$109,364.00.

Implementation will occur late summer/early fall 2020. We anticipate completing the project by late fall 2020 however, that will be pending weather interruptions. The latest completion date would be Spring 2021.

WALKWAYS FOR THOSE WITH MOBILITY ISSUES BUDGET

EXPENSES

Grading	\$ 7,430.00
Laying the Asphalt @ \$20/linear foot	\$100,000.00
Erosion Control	\$ 1,934.00
TOTAL EXPENSES	<u>\$109,364.00</u>

REVENUES

NRD Funding	\$ 54,682.00
South Sioux City Share	\$ 54,682.00
TOTAL REVENUES	<u>\$109,364.00</u>



Recreation Area Development Program – Application Form



Project name SPLASH PAD

Project location (attach location map) Scenic Park near Swimming Pool

Sponsor organization City of South Sioux City

Sponsor address 1615 1st Avenue

City South Sioux City State NE ZIP 68776

Contact person Pat Somsky

Title Grants Administrator


Email address psomsky@southsiouxcity.org Daytime phone 403-494-7502

Description of project (attach additional sheets as needed)

SEE ATTACHED SHEET

Total estimated cost \$ \$ 173,066.00

Cost share request \$ \$ 50,000.00


Signature

March 9, 2020
Date

Mayor, South Sioux City, NE
Title

Description of the Project:

In 2017, the City of South Sioux City adopted a Comprehensive Plan which addressed a number of key areas including: housing, economic development, employment, community facilities, utilities, parks and recreation, existing land use, as well as natural and environmental conditions. Through this plan, a desire for a Community Splash Pad arose.

Besides the obvious benefit of cooling down on a hot summer day, splash pads offer a variety of other benefits to both children and families as well as to the community. The Splash Pad will have open access during times after the pool is closed for the day.

Research indicates that playing with water provides children a rich sensory experience as well as provides a fun way to gain physical activity. Splash Pads promote higher order thinking skills, as well, where the children may have to guess which spout will spray next or how high the spray go. Splash Pads offer unique settings for children to socialize and play with other children.

Children with mobility issues are especially attracted to the splash pad concept as it allows easier access to the play areas and the water features. Splash pads are far more inclusive than swimming pools as well as far safer. Without standing deep water, the potential of drowning is negligible.

Scenic Park and the South Sioux City Community Swimming Pool area is where the proposed site of the Splash Pad will be located. Scenic park offers 159 acres of Soccer Fields, Baseball Fields, Play Grounds, a 135 site Campground, and the Community Swimming Pool. Additionally, there is a public boat ramp and picnic shelters. The pool and proposed splash pad sit adjacent to the YMCA. Currently, the "Y" and the City of South Sioux City have an operating agreement for the "Y" to manage the city pool and they'll also, manage the splash pad area.

We are seeking funds in the amount of \$50,000 towards the Splash Pad cost of \$173,066.00. Implementation would begin in the Fall of 2020 and depending upon weather, our desire is that the Splash Pad could be open for use during the summer of 2021





Colored concrete and environment are for illustrative purposes only and not supplied by Vortex. Not for construction. Actual colors and features of products and materials may appear differently than pictured.
Shown in Color Palette Vibrant 5.



South Sioux City Pool Splashpad, Ne
Version A - 34710

Splashpad
View 1

Trails Assistance Program – Application Form



Project name Standing Bear Lake Floating Trail

Project location (attach location map) West Side of Standing Bear Lake

Sponsor organization Omaha Parks, Recreation & Public Property Dept.

Sponsor address 1819 Farnam Street, Suite 701

City Omaha State NE ZIP 68183

Contact person Dennis E. Bryers, FASLA, PLA

Title Landscape Architect - Park & Recreation Planner II

Email address dennis.bryers@cityofomaha.org Daytime phone 402-444-3798

Description of project (attach additional sheets as needed)

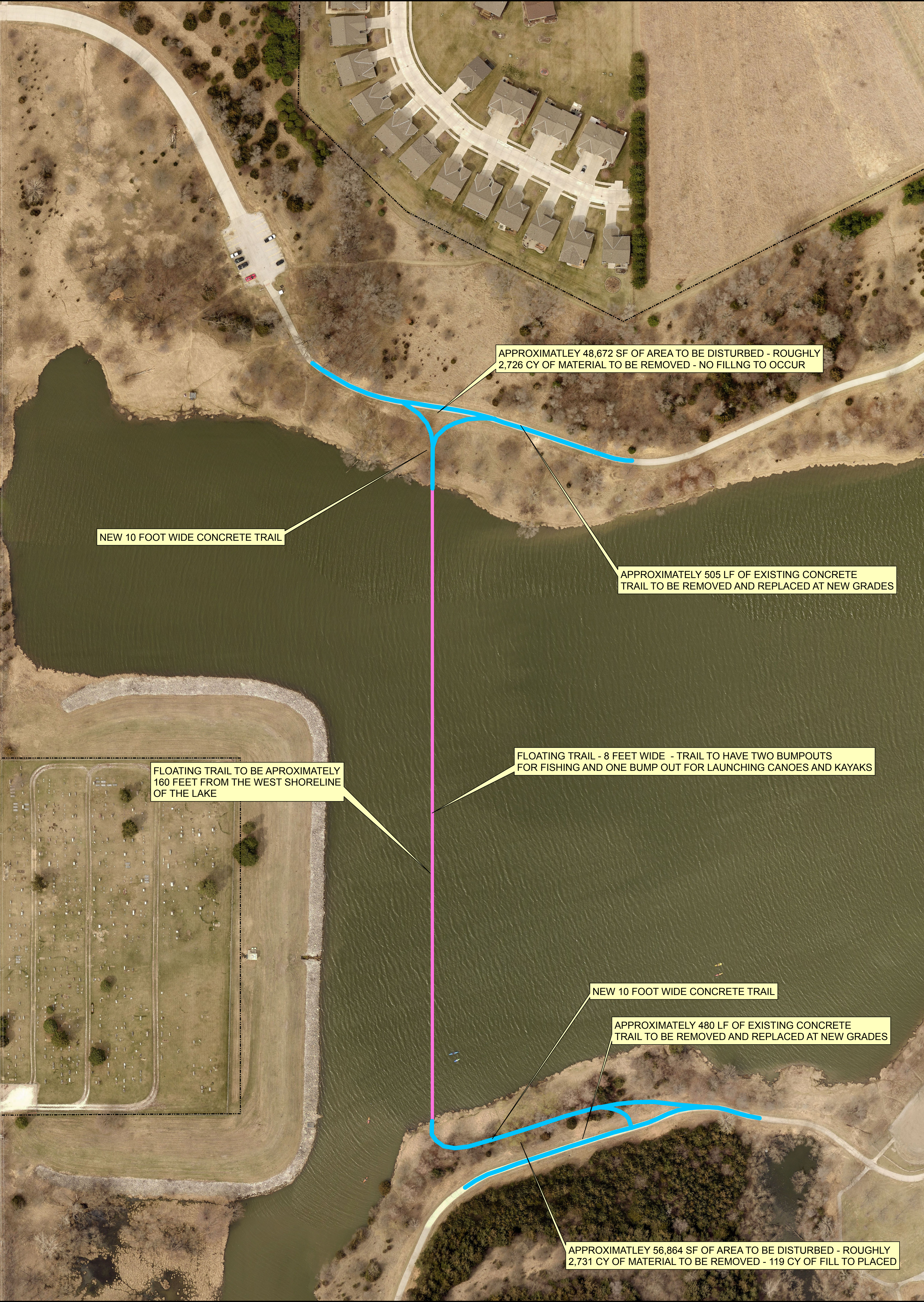
Construction of an 8 foot wide floating trail and adjacent 10' wide
concrete connecting trails on the west side of Standing Bear Lake to
connect the north and south sides of Standing Bear Lake Trail.

Total estimated cost \$ 880,784.77 Cost share request \$ 145,501.95

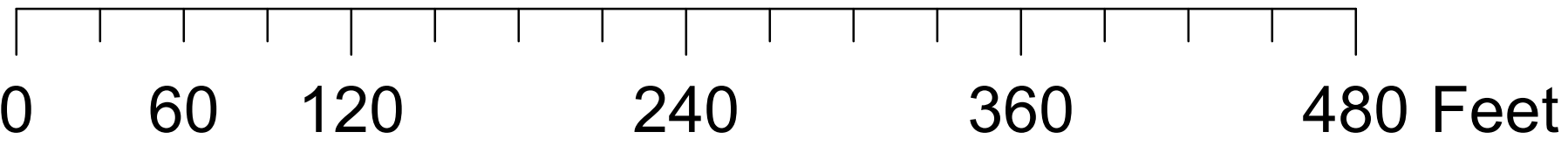
Dennis E. Bryers, FASLA, PLA
Signature

24 March 2020
Date

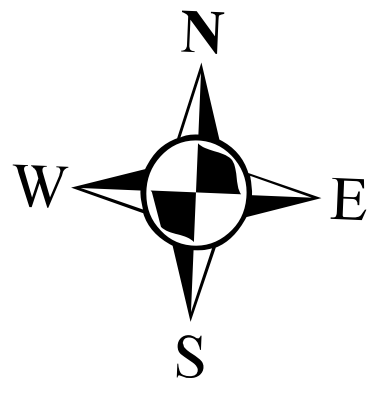
Land. Arch/Park & Recreation Planner II
Title

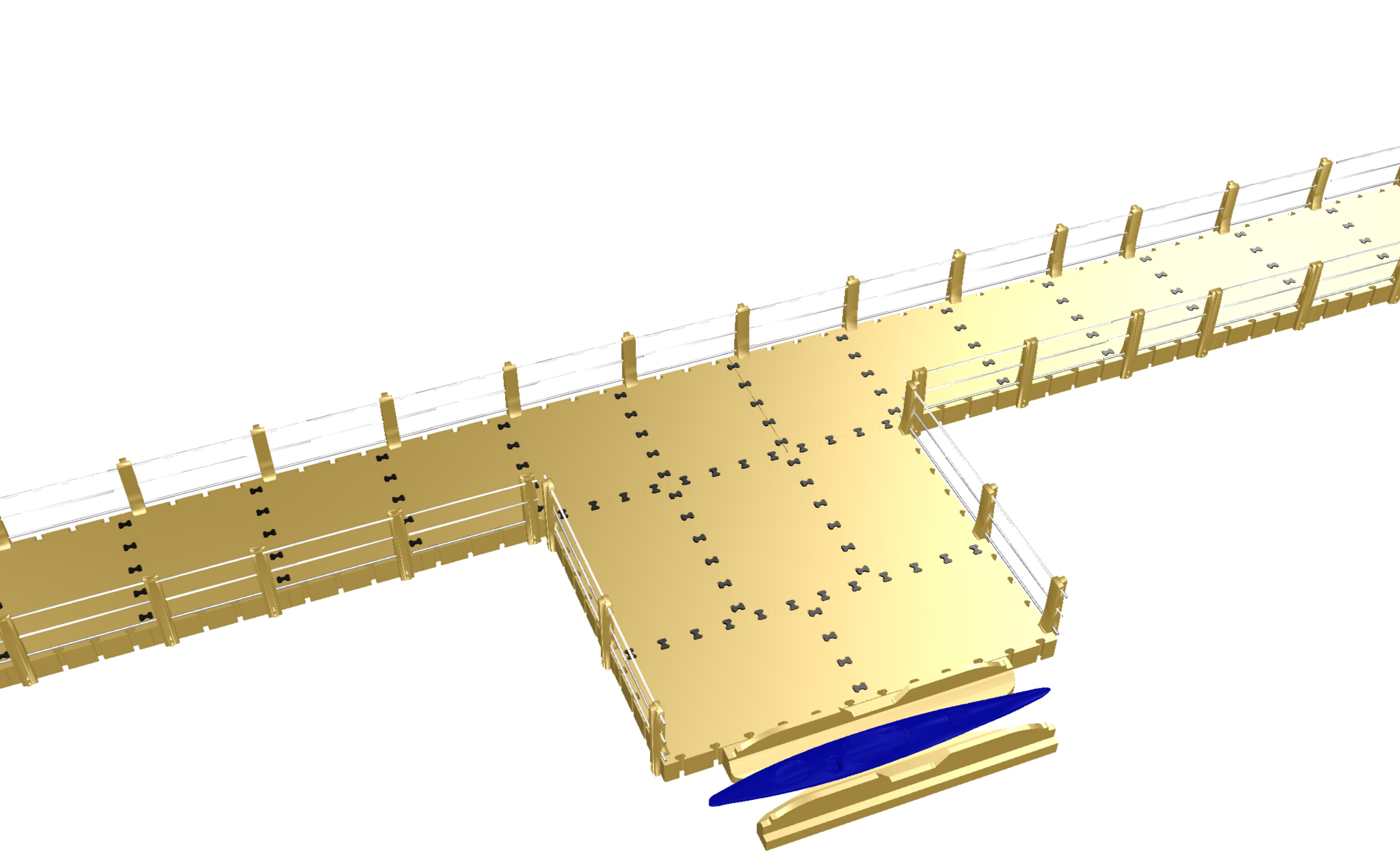


**Standing Bear Lake Floating Trail
Conceptual Layout**



10 January 2020







Trails Assistance Program – Application Form



Project name South Sioux City – Connecting School Trails

Project location (attach location map) Trail from Covington Elementary to existing trail system

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 Director - Parks and Facilities

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

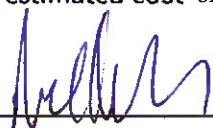
Description of project (attach additional sheets as needed)

Refer to attached description. Connecting School Trails completes the connection of two elementary grade schools, a neighborhood park to the existing trail system.

Total project cost \$786,736.08

Total estimated cost share \$ 165,215

Cost share request \$ 82,607


Signature

3/9/2020
Date

Mayor, South Sioux City

Title

Trails Assistance Program – South Sioux City Connecting School Trails

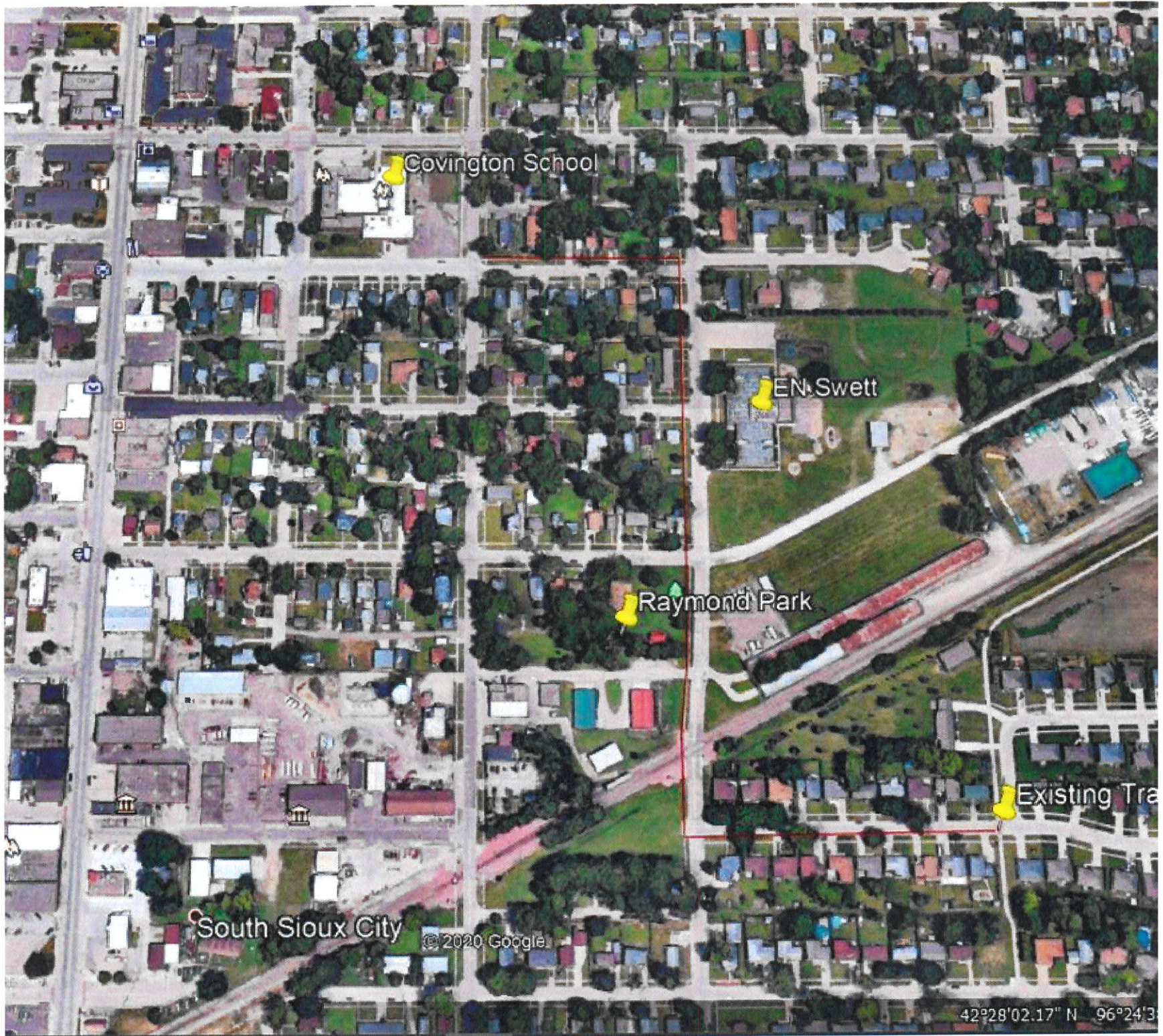
The City of South Sioux City has received a Safe Routes to School grant to construct a trail between two elementary grade schools – Covington and E.N. Swett and a neighborhood park. As indicated by the attached maps, the trail begins at Covington Elementary to E.N. Swett, to Raymond Park, then runs along C Street with a pedestrian crossing at the railroad tracks running south to 26th Street, turning east and connecting to the existing trail system. The trail route will be along the north side of 22nd Street and the west side of C Street. The trail will be constructed on the east side of Raymond Park.

The proposed project will replace existing sidewalk curb ramps so that they meet current standards. The trail will be constructed of concrete paving that is 10 feet wide. The existing pedestrian crosswalk on C Street will remain in place.

Connecting School Trails project will upgrade the railroad crossing along C Street. The proposed improvement would separate the pedestrian crossing adjacent to the traffic movement and provide bicycle and pedestrian users with their own signal or other advance warning at the crossing. Temporary easements have been obtained from any property owners affected. All property owners have been contacted regarding the process.

Through the NE Department of Roads competitive construction bids were received as indicated by the attached bid tabulations. Low and accepted bidder was T.R. Harris Construction, Inc. for \$603,500. Preliminary and construction engineering costs are \$93,636.08, ROW is \$89,600. The total project cost is \$786,736 and is primarily funded by the NE Department of Transportation @89% (\$547,865) with a cost share of 21% (\$165,215). NRD funding request is respectfully requested for 50% of the local cost share @ \$82,607.

The Connecting Schools Trail program will begin in the Summer of 2020 to mitigate any interference with the school session and be completed by December 31, 2020.



COORDINATE SYSTEM: NE

EXHIBIT "A"

SCALE: 1 IN = 50 FT

J.L.L. T.I. # -
BW Proj. No.: 12198.003
MAP REFERENCE:
STA. = 650353
R/W = -

This map used by BNSF RAILWAY COMPANY in the ordinary course of business, but it is subject to audit and should be used only with the expressed understanding the BNSF make no representations whatsoever about the quality, accuracy, errors or omissions relating to this map.



TO: NEBRASKA DEPARTMENT
OF ROADS
AT: SOUTH SIOUX CITY
DAKOTA COUNTY,
NE

LEGEND:

- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- RIGHT OF WAY LINE
- PARCEL LINES
- TRACK



MEASUREMENTS BASED ON PROVIDED SURVEYS
(S) MEASUREMENTS TAKEN OFF SURVEY
(M) MEASUREMENT

TWIN CITIES DIVISION
SIOUX CITY SUBDIVISION - L.S. 0144-1
VAL. SEC. 70008
CB&Q RR NE-04, MAP 28
SEC. 28, T29N, R9E 6PM
DATE: 5/22/2019
MP 105.30

DRAWN BY: JNC DRAWING NO. 75672

Flood Mitigation Assistance Program – Application Form



Project name South Sioux City Westside Drainage

Project location (attach location map) West 16th to West 19th

Sponsor organization City of South Sioux City

Sponsor address 1615 1st Avenue

City South Sioux City State NE ZIP 68776

Contact person Lance Hedquist

Title City Administrator

Email address lhedquist@southsiouxcity.org Daytime phone 402-494-7517


Description of problem (attach additional sheets as needed)

During frequent high water events, flooding occurs on the westside of the city due to existing closed
pipe storm sewers. The area along this stretch is very flat and causes water to stand or backup in high water
events, flooding businesses, residences. The proposal would address multiple issues in this area.

Proposed solution (attach additional sheets as needed)

The City is proposing an open drainage route and create a retention pond to store and infiltrate excess storm
runoff. This will be connected to existing outlets to the Missouri River.

Total estimated cost \$ 2,356,200 with NEMA Cost share request \$ 500,000
\$ 998,500 without NEMA



May 5, 2020

Signature

Date

Mayor

Title

Westside Drainage Project – Papio Missouri River Natural Resource District

The Westside Drainage Project will create an open channel and retention storage area to sustain adequate runoff and flow during high water events near 19th Street to Highway 77. This effort will resolve elevated standing water and backflow issues from Hwy 77 outlet to West 16th and further to 29th Street.

South Sioux City has long struggled with drainage issues on the west side of the city from Highway 77 to 29th Street. The existing grade in the entire area is extremely flat and the existing soils are mostly fat clay (60%), allowing for little absorbency. The existing drainage ditch conveyance does receive a large amount of runoff from the surrounding streets, businesses and residential areas. This volume of water quickly overwhelms the existing drainage area. (Attachment 1 - Figure 1: Study Area Overview)

Standing water often exists in both the open and closed culverts year-round, but is exacerbated when heavy rain events occurs. This is further made worse in the Spring when the ground is still frozen, rains occur and/or rapid snow-melts as occurred most recently in the Spring of 2019. As these events become more frequent, the drainage issue and resolutions to revolve it becomes more urgent. (Refer to Attachment 2: Figure 2: Existing Flooding Inundation) According to the NOAA Missouri River Forecast Center, “Springtime flooding guaranteed across eastern portions of the basin...eastern NE...” (Refer to Attachment 3: NOAA Missouri River Forecast Center). More recently, the City of South Sioux City has been sued by the owners of properties located at 800 West 25th, 2800 Serbick, 800 W 25th Street) that provides 40-buildings with 195-housing units for low-income and/or handicapped individuals due to flooding storm water drainage issues. (Refer to Attachment 4 - Panel 3 showing Liberty Place housing areas).

Currently, the drainage follows along an old bank or ridge from West 18th Street to the northwest where the storm sewer crosses under Highway 77. (Refer to Attachment: 5 Area of Interest) The current system is a buried pipe (30"x48" elliptical reinforced concrete pipe indicated by hash marks) extending from W16th to W19th then converts into an open drainage from W19th to 29th street (approximately three feet wide, four feet deep). Residents near the area have complained about the presence of the 3-4 feet standing water in the open convert, mosquitos, foul smells, debris and dead animals that collect at the grate covering the inlet of the pipe. For high water events, this drainage will back up and flood areas including businesses, multi-housing residences as mention previously, Mosque among other impacts. (Attachment 2: Figure 2, Existing Flooding Inundation)

In order to correct this drainage issue, Engineers are proposing constructing an alternative outlet to another storm sewer culvert that crosses Hwy 77 south of the current location. The potential flow path is shown in the following image via red arrows. (Refer to Attachment Figure 3: Secondary Outlet Alternative). The proposed alignment would provide a secondary flow path from the start of the existing closed pipe storm sewer segment to under Hwy 77, bypassing the current closed conveyance. This would also serve as a retention area, moving the water from the residential and business areas. The City will need to acquire the easement as this is Mid-American Energy land. This area includes an elevated communications tower.

The City of South Sioux City has retained JEO Engineering services. They have conducted a preliminary review of the project and has offered conceptual mapping and a preliminary budget for the open drainage area and retention / detention cell for purposes of this grant application as indicated on the following page.

ENGINEER'S CONCEPTUAL OPINION OF PROBABLE COST					
Westside Drainage Improvement					
South Sioux City, Nebraska			Date Prepared:	9-Mar-20	
JEO Project No. 191278.01			43899		
ESTIMATE OF QUANTITIES					
Item #	Description	Unit	Quantity	Unit Price	Total
Drainage Ditch and Stormwater Detention Cell					
1	Mobilization	LS	1	104000	\$ 104,000
2	Bonding and Insurance	LS	1	35000	\$ 35,000
3	Clearing and Grubbing	LS	1	40000	\$ 40,000
4	Stripping and Topsoiling	CY	12100	18	\$ 217,800
5	Excavation, Established Quantity	CY	55000	15	\$ 825,000
6	Ditch Excavation & Grading	LF	1050	60	\$ 63,000
7	Erosion Control Mat	SY	12000	5	\$ 60,000
8	Rock Riprap, NDOT Type A	TONS	1000	80	\$ 80,000
9	Silt Fence, High Porosity	LF	3000	5	\$ 15,000
10	Hydro-Seeding, Fertilizer and Mulch	ACRE	15	5000	\$ 75,000
11	Straw Wattle	LF	1000	5	\$ 5,000
12	Construction Entrance	EA	1	3000	\$ 3,000
Construction Subtotal				Group	\$ 1,523,000
Contingency				0.30	\$ 457,000
Total Opinion of Construction Cost					\$ 1,980,000
PROFESSIONAL SERVICES					
1	Design Services (Engineering, Survey, Architecture)			0.12	\$ 237,600
2	Permitting			0.02	\$ 39,600
3	Overhead (Legal, Fiscal, Etc.)			0.05	\$ 99,000
Subtotal Professional Services					\$ 376,200
Total Opinion of Project Cost					\$ 2,356,200

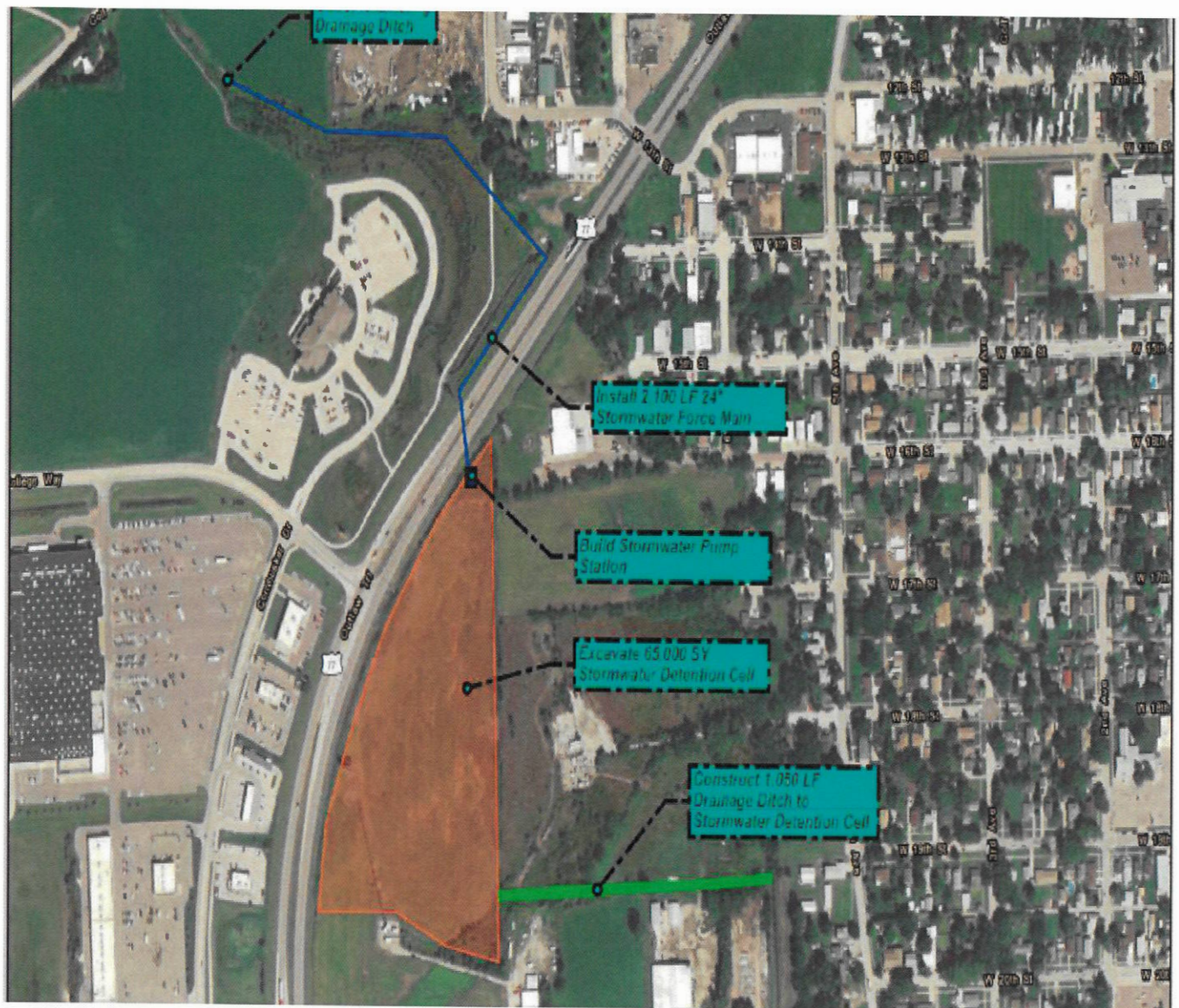
The Flood Mitigation Assistance Program will assist the City to stabilize and rehabilitate this area for flood control. As this area was once Silver Lake, we are requesting Level 1 Restoration to develop the open channel and retention pond, restoring it somewhat to its original area while offering flooding relief. It has a continuous significant reach, historical stream (lake bed), using bioengineering technics / flow redirection, flow retention ultimately connecting to the Missouri River.

Total Project cost estimate: \$2,356,200

NRD Share @ 50% (not to exceed): \$500,000

NEMA Share @ 75% \$1,767,150

Local Share @ 50% \$89,050



Created by: MDS
 Date: 05/04/2020
 Revised:
 Software: ArcGIS 10.7.1

This map was prepared using information from various sources and is not intended to be used as a legal document. It is provided as a guide only and does not constitute an offer of insurance or any other financial product. The information is not intended to be used for any purpose other than that for which it was intended.

Figure 3: Conceptual Improvements

Westside Drainage Improvement Project
 South Sioux City, Nebraska

DRAFT

