Agenda Item 9

Memorandum

To: Programs, Projects, and Operations Subcommittee

Subject: FY 2009 Urban Cost Share Programs
- Recreation Area Development Program
- Trails Assistance Program
- Urban Drainageway Program
- Urban Conservation Assistance Program

Date: March 31, 2008

From: Gerry Bowen

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.

Recreation Area Development

The Recreation Area Development Program (RAD) cost shares with cities and villages 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.

The following application has been approved by Management.

- The City of South Sioux City has requested assistance to install three (3) picnic shelters at the newly developed Dog Park located adjacent to Scenic Park in South Sioux City. The total cost of the project is estimated at $30,250. The City is requesting 50% of this amount, or **$15,125.**

The following applications require Board approval.

- The City of Papillion has requested assistance to install two (2) new shelters in Halleck Park. The total cost of the project is estimated to cost $79,190, of which $71,586 are eligible. The City is requesting 50% cost share on the project, or **$35,793.**

- The City of Blair has requested assistance to renovate a historic depot for use as a combination picnic shelter and trailhead. The total cost of the renovation is estimated to be $693,100. The City has received "provisional" approval from the Nebraska Department of Roads for Transportation Enhancement funding (historic preservation) for 74% of project costs, or $455,693. They are requesting the maximum under the program or **$50,000**.

The following table summarizes the RAD project requests for FY 2009. The FY 2008 budget for this program was $144,724.

Sponsor	Total Estimated Cost	Cost Share Requested
City of South Sioux City – Dog Park	$30,250	$15,125
City of Papillion – Halleck Park	$71,586	$35,793
City of Blair – Historic Depot	$683,100	$50,000
Total	**$784,936**	**$100,918**

- **Management recommends that the Subcommittee recommend to the Board that the applications from the City of South Sioux City for $15,125, City of Papillion for $35,793, and the City of Blair for $50,000 be approved, for a total of $100,918, subject to funding in the FY 2009 budget.**

CITY OF SOUTH SIOUX CITY

DOG PARK – SHELTERS

March 3, 2005

PROJECT NAME: SOUTH SIOUX CITY DOG PARK– SHELTERS

PROJECT SPONSOR: CITY OF SOUTH SIOUX CITY
1615 FIRST AVENUE
SOUTH SIOUX CITY NE 68776 – 2245

CONTACT PERSON: BRENT BROWN
DIRECTOR OF PARKS & RECREATION

TELEPHONE: 402-494-7536

PROJECT LOCATION: SCENIC PARK- EAST- 1600 RIVERVIEW DRIVE

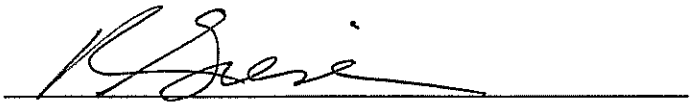
PROJECT DESCRIPTION: The City of South Sioux City vision is in 2020, South Sioux City is a vibrant community that provides a tremendous quality of life for all citizens defined by outstanding educational and employment opportunities. With our strong commitment to environmental stewardship, we are a recreational, cultural, economic, and technological hub of the Midwest. To meet that vision the South Sioux City Parks and Recreation Department is developing a master plan for each park in the city. The City of South Sioux acquired a 33 acre parcel of land and the Parks Board has come up with a master plan for the design of that area.

The park is located to the east of the train bridge along the Missouri River along the city's bike trial and future expansion of Riverview Drive. One of the main features to the park will be the

addition of a dog park. This grant would allow us to be able to pour concrete pads and purchase three new shelters. The dog park will be the first amenity of the park. It will have two separate areas for smaller dogs and larger dogs, landscaping areas and parking. Other features of the park will be a shelter house, playground equipment, and community gardens. Families will not have to travel all the way to Sioux City to run their dogs.

TOTAL ESTIMATED COST: $30,250.00= $26,750.00+$3,500.00

COST SHARE REQUESTED: $15,125.00

SIGNATURE / TITLE: 

Robert Giese, Mayor of South Sioux City, NE

Total Estimated Cost:

1- 3- 16'x24' steel roofing Poligon shelters purchased from Crouch Recreation, Omaha NE. Estimated cost $26,750.00
2- 3- 20'x28' by 4"- Concrete Pad. Estimated cost $3,500.00

Total- $30,250.00= $26,750.00+$3,500.00

- Papio-Missouri NRD Share- $15,125.00- 50%
- City of South Sioux Share- $15,125.00- 50%

Schedule:

After announcement of being funded.

- Notify media of grant from Papio Missouri River Natural Resource District.
- Within 30 days of being awarded purchase shelter.
- Within 60 days have new shelter in place for residents and visitors to enjoy.

South Sioux City, NE

DOG PARK

Form 17.27 A

RECEIVED
MAR - 6 2008

RECREATION AREA DEVELOPMENT PROGRAM

APPLICATION FORM

1. DATE: 3-4-08
2. PROJECT NAME: Halleck Shelters
3. PROJECT SPONSOR: City of Papillion
(Address)
122 East 3RD Street
Papillion Ne 68046
4. CONTACT PERSON: Martin Miller TITLE: Park Supervisor
5. TELEPHONE: (402) 597-2049
6. PROJECT LOCATION **: Halleck Park
600 East Lincoln
Papillion Ne 68046
7. DESCRIPTION OF PROJECT **: Remove 2 old Concrete block shelters and floors and replace with 2 36'x36' Metal roof shelters and new concrete floors
8. TOTAL ESTIMATED COST: $ ~~79,190.00~~ 71,586 GB
9. COST SHARE REQUEST: $ ~~39,595.00~~ 35,793 GB
10. SIGNATURE/TITLE: Martin Miller Park Supervisor

** Attach additional sheets as necessary.

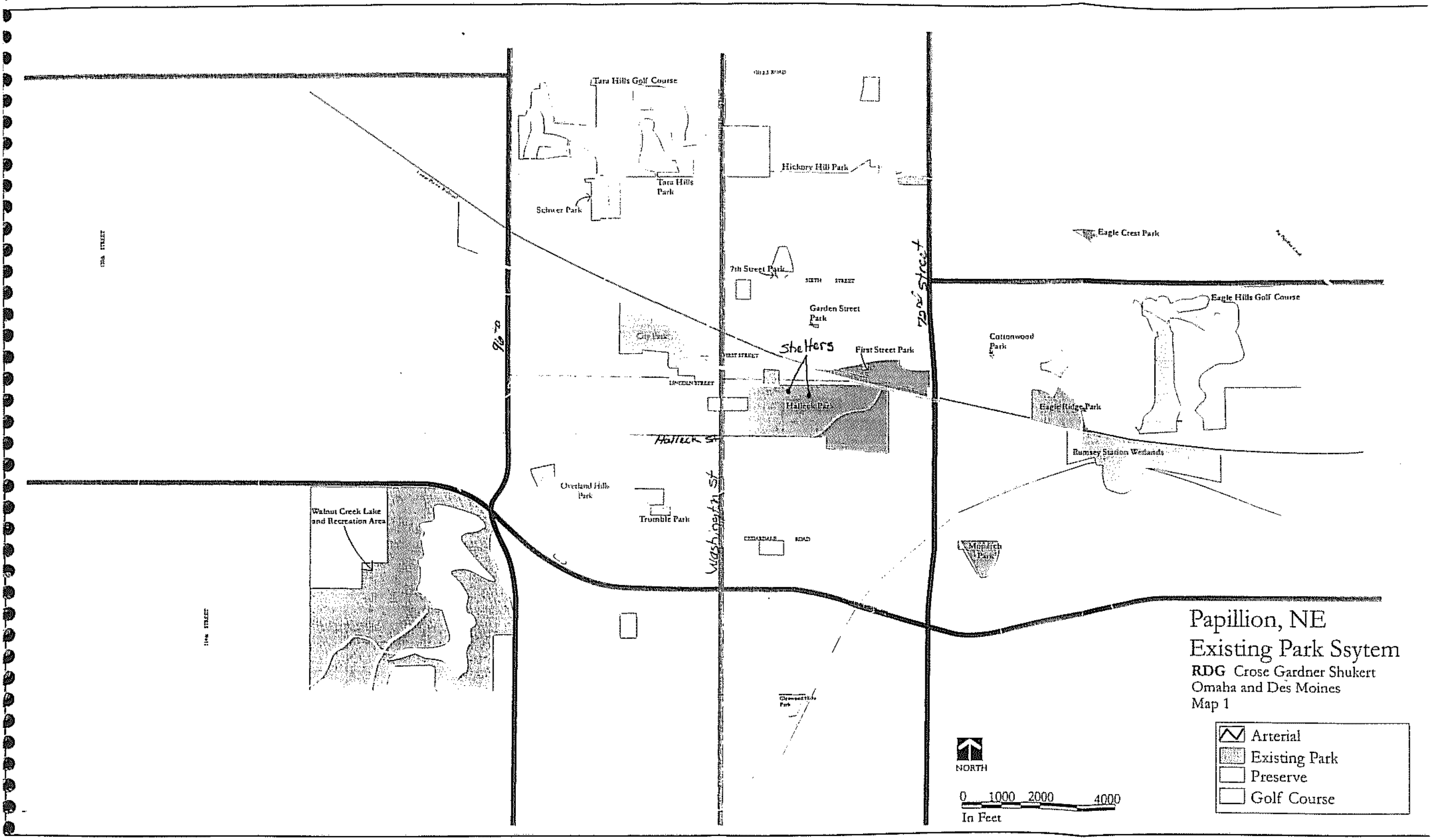
Cost breakdown for shelters

Loader @ $100.00 per hour for 4 days	~~$3200.00~~
Truck @ $50.00 per hour for 4 days	~~$1600.00~~
4 people @$18.00 per hour per person for 4 days	~~$2304.00~~
Dump 10 loads concrete @$50.00 per load	~~$ 500.00~~
2 new 36'x36' shelters	$44520.00
Erection of shelters	$7000.00
Installation of footings	$2600.00
2 40'x40' concrete shelter pads @ $3.20sf	$10,240.00
Landscaping, dirt work, shrubs, and grass seed	$500.00
Purchase 10 recycled picnic tables (3handicapped)	$6726.00
Total	~~$79190.00~~

$71,586 GS

The City of Papillion would like to start the demolition of the two shelters in the fall of 2008 and have the shelters down the dirt work finished and the silt fence installed before winter.

In the spring start construction of the footings and shelters and have the floor and walks poured. Then install the new recycled picnic tables and finish with the landscaping and grass seed. So the citizens of Papillion may use the shelters by summer.



Tara Hills Golf Course
Tara Hills Park
Schweer Park
Hickory Hill Park
Eagle Crest Park
7th Street Park
Garden Street Park
Shelters
First Street Park
City Park
Halleck Park
Halleck St
Cottonwood Park
Eagle Hills Golf Course
Eagle Ridge Park
Rumsey Station Wetlands
72nd Street
96th
Washington St
Overland Hills Park
Trumble Park
Walnut Creek Lake and Recreation Area
Monarch Park
Papillion, NE
Existing Park Ssytem
RDG Crose Gardner Shukert
Omaha and Des Moines
Map 1
Arterial
Existing Park
Preserve
Golf Course
NORTH
0 1000 2000 4000
In Feet

Form 17.27 A

RECREATION AREA DEVELOPMENT PROGRAM

APPLICATION FORM

1. DATE: 02-06-08

2. PROJECT NAME: Depot in the Park

3. PROJECT SPONSOR: City of Blair, 218 South 16th Street
(Address)

Blair, Nebraska 68008

4. CONTACT PERSON: Allen Schoemaker TITLE: Director of Public Works

5. TELEPHONE: 402-426-4191

6. PROJECT LOCATION ** : Lion's Park, 16th & Nebraska Streets

Blair, Nebraska

7. DESCRIPTION OF PROJECT ** : Please see attached.

Transportation Enhancement Request form. City received Provisional funding in 2007, but plans on re-submitting project in 2008 for Federal Enhancement funding.

8. TOTAL ESTIMATED COST: $ 683,100

9. COST SHARE REQUEST: $ 50,000

10. SIGNATURE/TITLE: Director of Public Works

** Attach additional sheets as necessary.

State of Nebraska
Department of Roads

Transportation Enhancement Improvement Request (FINAL)

1.	AGENCY NAME: City of Blair	TYPE OF GOVERNMENT AGENCY *(Check One)*: ☐ Village ☐ NRD	☒ City ☐ State	☐ County ☐ Other	
2.	CONTACT PERSON: Phil Green			FAX NUMBER: 402 426 4195	
	MAILING ADDRESS: *(Street)* 216 S 16th Street		CITY: Blair	STATE: NE	ZIP: 68008
	DAYTIME PHONE: (402) 426-4191	E-MAIL: pcgreen@ci.blair.ne.us			
3.	CONTACT PERSON: *(Print Name & Title)* Phil Green, Assistant City Administrator	SIGNATURE: Phil Green		DATE: 09/20/2007	
4.	GOVERNMENT AGENCY: *(Print Name & Title)* James Realph, Mayor	SIGNATURE		DATE: 09/20/2007	
5.	PROJECT NAME: *(Example: Beatrice Big Blue Trail; Neligh Mill Bridge Renovation)* Depot in the Park				

6. PROJECT DESCRIPTION/LOCATION: *(Include location, work to be performed, and attach map)*

Located in Blair, Nebraska along Nebraska Street between 15th and 16th Streets, on the south edge of the Lion's Park, the Depot will be rehabilitated to serve as a local community gathering facility, as a historic transportation interpretation center (Rail line, Lincoln Highway, Scenic Byway) and as the central hub for the City's trail system. This is a project that seeks to showcase and celebrate the historic role of this old train depot. The structure will have substantial repair completed including a new roof, re-milled siding, remade windows, doors, transoms, paint, two reconstructed chimneys, repaired walls and floors, electricity, and simple exterior water supply. The multi-use facility will provide the unique ambiance of a distant time in a new focal point for the trail system and a new venue for community events in Blair. The plan includes not only the rehabilitation of the structure but the enhancement of its function to provide casual rest and water for hikers, covered meeting space for local citizens, and a permanent interior interpretive center for various transportation related topics such a train, early auto, hiking, biking, and pedestrian trail use. Additional planned features (not part of this application) include a community stage projecting from the north side of the depot for performing arts (community band, theater, scouts, etc.) and other community functions. The structure will retain much of its original look and feel but will also provide electric lighting and outlets as well as vintage fixtures and appropriate landscaping. The structure will be ADA accessible via a ramping design worked into the "train platform" to be located off the south side of the Depot. The south side will serve as a visual icon of the structure (providing a current interpretation of existing vintage photographs) as well as be the focal point of the trail network within the community. Located on what was the old Lincoln Highway, and now part of the "Lincoln Highway-Nebraska Byway" network, the Depot will be a reminder of the important role rail and auto transportation played in the early history of the community. The "Depot in the Park" will serve as a community focal point and jewel upon the trail.

DESCRIBE HOW YOUR PROJECT RELATES TO TRANSPORTATION (AS DESCRIBED IN APPLICATION GUIDELINES):

The 1880 Train Depot is the last remaining train depot in Washington County and is the final tangible reminder of the Blair Train Age. Now it is permanently situated at the intersection of the CSPM&O train bed and the Old Lincoln Highway. Completion of the 600 foot walking trail extension along the old train bed will make the Depot a trail head as well as a location to house transportation information and memorabilia, hiking and pedestrian literature, and other current and historical community information. The Depot will serve as a tourist welcome center for those traveling the Nebraska Byway network and a gathering place for train enthusiasts to learn more about the rail and road history in the region. Educational materials and memorabilia will be on view in permanent displays and under lock and key as needed in the secured area of the structure. The larger portion of the facility will be open daily for unsupervised viewing and meeting among the various displays and to learn more about and to plan activities involving the trail network and historic highway system.

7.	TOTAL ESTIMATED PROJECT COST: 683,100	FEDERAL FUNDS REQUESTED: 500,000
8.	MATCHING FUNDS PROVIDED BY: 183,100	PERCENTAGE OF MATCH: *(Minimum 20% of total)* 26.8%
9.	PROJECT TYPE: *(Select One Category)* ☐ Trails ☐ Historic Preservation ☒ Scenic or Historic Byways	
10.	HAVE YOU RECEIVED TRANSPORTATION ENHANCEMENT FUNDS IN THE PAST? ☒ YES ☐ NO IF YES, PLEASE LIST ALL PROJECTS FUNDED AND TOTAL DOLLARS RECEIVED: Deerfield-Lion's Bike Trail: $308,939 Dana Bike Trail: $432,022	
11.	IDENTIFY IF THIS PROJECT IS PART OF A OFFICIAL PLANNING DOCUMENT: No, but this project will be incorporated into the Blair Trails Master Plan.	
12.	PUBLIC BENEFITS OF THIS PROJECT: Safety and community vitality. The community, state, and federal government have, to date, funded a broad trail system that continues to be expanded. This funding request includes funds for the completion of a 600 foot extension of the trail system that will link the Deerfield-Lion's Trail to Nebraska Street (old Lincoln Highway) and to the future "Lincoln Highway Trail" that will proceed from the Depot east on Nebraska Street toward the river. This trail system provides for safe and healthy recreation and alternate transportation by permitting and encouraging the community to walk or ride throughout the trail system. This will become part of the formal trail plan for the City of Blair. Furthermore, the rehabilitated depot will provide the public with a community facility and visible symbol of its history. Blair was founded in 1869. This 1880 depot is the last surviving train depot in all of Washington County and now is the rugged icon of a bygone rail era. Rehabilitating this structure and placing it at the center of our trail network, and along the "Lincoln Highway - Nebraska Byway" system, will go a long way in stimulating the citizens' awareness of and interest in the important role transportation has played in the community's history and will provide a better understanding of the current and future role land transportation plays in our lives. Blair's community slogan is "A Promise of Quality." This project will deliver on that promise by providing a rehabilitated train depot that will maintain its historic character while proclaiming that the future of the community is exciting and bright. By simply being there the depot says - "come in and take a look". By providing this trail network and interpretive learning center, the citizens of the community have an opportunity to get up and get out into the community and be a part of its future. This project will provide a free experience for those who can and want to take advantage of the facilities.	
13.	THIS PROJECT IS SUPPORTED BY: Strong public support is evidenced by a newspaper poll (+87%) and the volunteer labor and materials provided by area trades and retailers to date. Letters of support from the Blair Chamber, Blair Public Schools, Dana College, the Blair Trails Committee and others show that many in the community want to see this project become a source of pride for Blair.	

Attach the following required items:

- **Budget (follow sample provided in Application Guidelines booklet)**
- **8 ½ x 11 map - include aerial image, project location/alignment, north arrow, street names, points of interest**
- **Resolution**
- **Environmental Impact Forms (DR275) provided at site visit**

hgm
ASSOCIATES INC.

Updated
November 27, 2007

ARCHITECT'S PRELIMINARY COST ESTIMATE FOR BLAIR DEPOT RENOVATION
LOCATION: BLAIR, NEBRASKA

Renovate Historic 64 x 25 Freight Depot

Item #	Item	Lump Sum Cost
1	Exterior Walls Renovation - Stabilize, Sheathing and Siding to Match Existing	$ 35,000.00
2	Roof Renovation - Removals, Cedar Shakes, Ridge Vent, Sheathing, Insulation	$ 25,000.00
3	New Double Hung Windows to Replicate Existing	$ 10,000.00
4	New Doors with Transoms to Replicate Existing	$ 18,000.00
5	New Flooring to Replicate Existing with Insulation in Crawl Space	$ 20,000.00
6	Paint and Finish - Exterior and Interior Walls, Ceiling	$ 15,000.00
7	New Interior Walls and Fur Exterior Walls with Beadboard Wainscot, Panelling, Insulation	$ 26,000.00
8	New Drywall Ceiling with Wood Trim	$ 5,000.00
9	Interpretive Exhibit Displays Allowance: Five (5) secure exhibit areas approx. 25 SF each are planned for inside the depot. Transportation areas to be highlighted are: 1) railroads in Blair; 2) railroads in the region; 3) the Lincoln Highway through Blair; 4) the Lincoln Highway in the region; and 5) Blair's Bike Trail system	$ 20,000.00
10	HVAC - Separate Units for Areas A and B	$ 22,000.00
11	Electrical Power and Lighting - Period Light Fixtures	$ 35,000.00
12	New Chimneys to Replicate Existing	$ 40,000.00
13	Landscaping - Site Prep (1800 SF)	$ 9,900.00
14	Landscaping - Perennials (430 1-gal.)	$ 5,375.00
15	Landscaping - Edging, brick on edge (610 LF)	$ 5,490.00
16	Landscaping - Mulch (1800 SF)	$ 900.00
17	South Raised Entrance Platform - Brick on Concrete. Earth Fill, Ornamental Railing	$ 47,000.00
18	West Brick Patio	$ 15,000.00
19	Exterior Period Pole Lighting - 10 Poles	$ 35,000.00
20	Site Plumbing for Drinking Fountain, Hydrants, and Sink	$ 10,000.00
21	Signage and Plaques Allowance: Signage or plaques detailing the history of the depot, the history and importance of rail and highway surface transportation, and a detailed map of Blair's Bike Trail will be included.	$ 15,000.00
22	Bike Trail Earthwork & Grading	$ 3,840.00
23	Bike Trail Subgrade Moisture and Density Control	$ 2,001.00
24	Bike Trail 6" PC Concrete Trail Pavement	$ 21,344.00
25	Bike Trail Earth Shoulder Finishing	$ 1,200.00
26	Bike Trail Trail Post Mounted Signs	$ 1,000.00
27	Bike Trail Trees, 3" B-B	$ 4,000.00
28	Bike Trail 18" CMP Culvert	$ 1,500.00
29	Bike Trail Rest Node, 6" PC Concrete	$ 1,000.00
30	Bike Trail Bench, Furnish and Install	$ 1,200.00
31	Bike Trail Temporary Silt Fence (Erosion Control)	$ 1,800.00
32	Bike Trail Seed, Fertilize and Mulch	$ 1,400.00
33	Bike Trail Orange Safety Fence	$ 1,200.00

			Subtotal Estimated Construction Cost	**$ 456,150.00**
Mobilization	1	LS	8% of Subtotal	$ 36,492.00
			Estimated Total Probable Construction Cost	**$ 492,642.00**

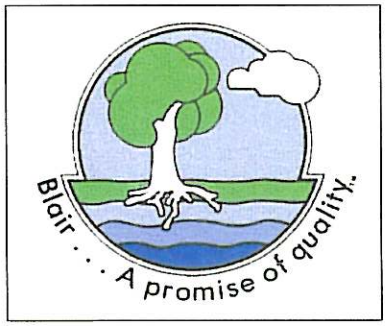
ENGINEERING COSTS

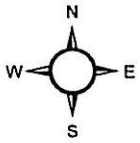
Preliminary Engineering (10%)	$ 49,264.00
Construction Engineering/Contingency (14%)	$ 68,970.00
NDOR Project Representative Costs (1%)	$ 4,926.00
Architectural Costs Total	**$ 123,160.00**
TOTAL ESTIMATED PROJECT COSTS	**$ 615,802.00**

FUNDING SOURCES

Applicant's Cash Match (26%)	**$ 160,109.00**
Federal Funding (74%)	**$ 455,693.00**

City of Blair
Parks and Trails Map

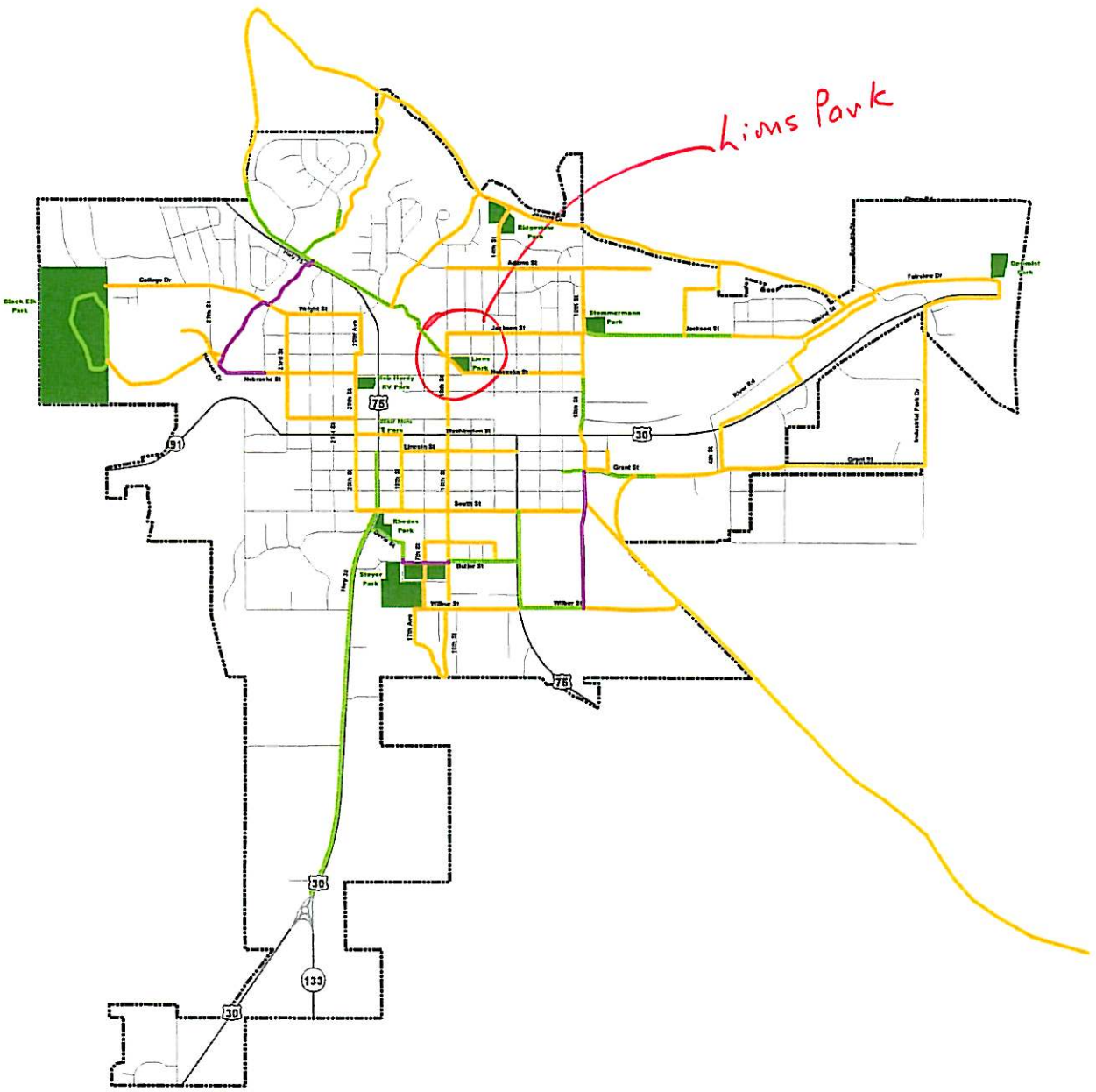




0 7501,500 3,000 4,500 6,000 Feet

Legend

- Existing Trails - 5.72 Miles
- Planned Trails for 2008 - 1.42 Miles
- Proposed Trails
- Parks
- City Limits



Trails Assistance Program

The Trails Assistance Program cost shares with sponsors on trail projects approved for funding under the Transportation Enhancement Program, either through the Nebraska Department of Roads or the Nebraska Game and Parks Commission. The cost share rate is 50% of the local share. All projects require Board approval.

The following sponsors have requested assistance.

- The City of LaVista has requested assistance to build a trail connecting the LaVista Sports Complex with the Keystone Trail at Harrison Street, a distance of approximately one mile. The total estimated cost of the project is $349,110. The local share following application of the federal cost share estimated at $104,734. The City is requesting 50% of this amount, or **$52,367.**

- The City of Bennington has requested assistance to build a bridge and connecting trail to cross the Big Papillion Creek connecting the existing trail along Bennington Road and the City Park. The trail will be approximately ½ mile in length. The total estimated cost of the project is $414,281. The local share of the project costs is estimated to be $82,856. They are requesting 50% of this amount, or **$41,428.**

- The City of South Sioux City has requested assistance to build the Arbor Acres Trail that will connect Arbor Park to the Al Bengston Trail in Scenic Park, a distance of approximately ¾ mile. The estimated cost for the project is $168,200. The local share of the project costs is estimated to be $32,640. They are requesting 50% of this amount, or **$16,820**.

- The City of Springfield has requested assistance to build Phase 3 of the Springfield Trail. The project will connect the trailhead south of Platteview Road and the District's Mopac Trail at Main Street, a distance of approximately ¾ mile. The project includes two (2) bridges. This trail is also a connecting link on the Omaha-Lincoln Trail. The total estimated cost of the project is $564,382. The local share of the project costs is estimated to be $112,878. They are requesting 50% of this amount, or **$56,439**.

- The City of Papillion has requested assistance to build the Midland Creek Trail which will connect Highway 370 with the West Papio Trail generally following 72nd Street, a distance of approximately 1.25 miles. The total estimated cost of the trail is $498,960. The local share of the project costs is estimated to be $99,792. They are requesting 50% of this amount, or **$49,896**.

- The City of Fort Calhoun has requested assistance to build a trail in Pioneer Park. The trail is approximately ½ mile in length. The total estimated cost of the project is $170,400. The local share of the project costs is estimated to be $34,080. They are requesting 50% of this amount, or **$17,040.**

The following table summarizes the applications for the TAP for FY 2009. The FY 2008 budget for this program was $244,744.

Sponsor	Total Estimated Cost	Cost Share Requested
City of LaVista	$349,110	$52,367
City of Bennington	$414,281	$41,428
City of South Sioux City	$168,200	$16,820
City of Springfield	$564,382	$56,439
City of Papillion	$498,960	$49,896
City of Fort Calhoun	$170,400	$17,040
Grand Total	**$2,165,333**	**$233,990**

- **Management recommends that the Subcommittee recommend to the Board that the applications from the City of LaVista for $52,367, the City of Bennington for $41,428, the City South Sioux City for $16,820, the City of Springfield for $56,439, the City of Papillion for $49,896, and the City of Fort Calhoun for $17,040 be approved, for a total of $233,990, subject to funding in the FY 2009 budget.**

Form 17.40 A

TRAILS ASSISTANCE PROGRAM

APPLICATION FORM

1. DATE: 03/14/08

2. PROJECT NAME: La Vista Link - Keystone Trail

3. PROJECT SPONSOR: City of La Vista
(Address)

9900 Portal Road

La Vista NE 68128

4. CONTACT PERSON: Joe Soucie TITLE: Director

5. TELEPHONE: 331-8927 (work) 680-2016 (cell)

6. PROJECT LOCATION ** : Start Point: 7427 S. 69th Street

Ending Point: Southeast Corner of 66th & Harrison Street

7. DESCRIPTION OF PROJECT ** : The La Vista Link Trail is intended to be an alternative transportation corridor for residents and visitors to access the La Vista Sports Complex, Keystone Trail and other parts of the community as the La Vista Master Trail Plan expands. Currently there is no transportation corridor to the Sports Complex for pedestrians or bicyclists unless they use existing roadways or the grass shoulders on those roads. The La Vista Link would provide a safe alternate route for non-motorized traffic to travel.

8. TOTAL ESTIMATED COST: $ 349,109.35

9. COST SHARE REQUEST: $ 52,366.40

10. SIGNATURE/TITLE: Joe Soucie

** Attach additional sheets as necessary.

LA VISTA LINK – KEYSTONE TRAIL
ITEMIZED BUDGET
SEPTEMBER 29, 2006

CONSTRUCTION COSTS

Item	Description	Quantity	Unit	Unit Price	Total
1.	Clearing, Grubbing & Topsoil Salvage	4.5	AC	$750.00	$3,375.00
2.	Grading for Trail	10,000	CY	$5.00	$50,000.00
3.	Remove & Replace Fence	200	LF	$10.00	$2,000.00
4	Construct Culverts	500	LF	$50.00	$25,000.00
5.	Subgrade Compaction	5,280	SY	$2.00	$10,560.00
6.	Construct 6" PCC Trail, 10 Ft. Wide	4,400	SY	$32.00	$140,000.00
7.	Crossing Markings on 66th Street	1	LS	$5,000.00	$5,000.00
8.	End of Trail Bollards	6	EA	$200.00	$1,200.00
9.	Traffic Control Sings (MUTCD)	8	EA	$200.00	$1,600.00
10.	Erosion Control	4.5	AC	$2,500.00	$11,250.00
11.	Seeding	4.5	AC	$2,200.00	$9,900.00
	Construction Costs Subtotal				$260,685.00
	Mobilization, 8% of Subtotal				$20,854.80
	Construction Costs Total				$281,539.00
	Preliminary Engineering, 10%				$28,153.98
	Construction Engineering & Contingency, 14%				$39,415.57
	Engineering Costs, Total				$67,569.55
	Total Project Costs				$349,109.35

Other Costs

The City will need to acquire right-of-way	0.9	AC	$8,000.00	$7,200.00
	0.4	AC	$30,000.00	$12,000.00
Total for Right-of-Way				$19,200.00

NOTES

Trail Rule Signage will be provided by the City of La Vista.
This project has been funded in the City of La Vista FY 2006/07 budget.

N

0' 1000' 2000'

2 THOMPSON, DREESSEN & DORNER, INC.
Consulting Engineers & Land Surveyors
10836 OLD MILL ROAD OMAHA, NEBRASKA 68154
PHONE: 402.330.8860 FAX: 402.330.5866 EMAIL: TD2MAIL@TD2CO.COM
WEBSITE: WWW.TD2CO.COM

JOB #: 171-254 DWG: 171254CN_Trail.DWG

CITY OF LAVISTA

KEYSTONE TRAIL CONNECTOR

VICINITY MAP

SCALE: AS SHOWN
DATE: 9-29-06
DRAWN BY: DWG
CHECKED BY: JMK
REVISIONS:

Form 17.40 A

TRAILS ASSISTANCE PROGRAM

APPLICATION FORM

RECEIVED
MAR 14 2008

1. DATE: 3-13-08

2. PROJECT NAME: Bennington Papio Creek Bridge & Trail

3. PROJECT SPONSOR: City of Bennington
(Address)

P.O. Box 221.

Bennington, NE 68007

4. CONTACT PERSON: Mindi Laaker TITLE: city clerk

5. TELEPHONE: 402-238-2375

6. PROJECT LOCATION **: see attached map

7. DESCRIPTION OF PROJECT **: see attached description

8. TOTAL ESTIMATED COST: $ 414,281

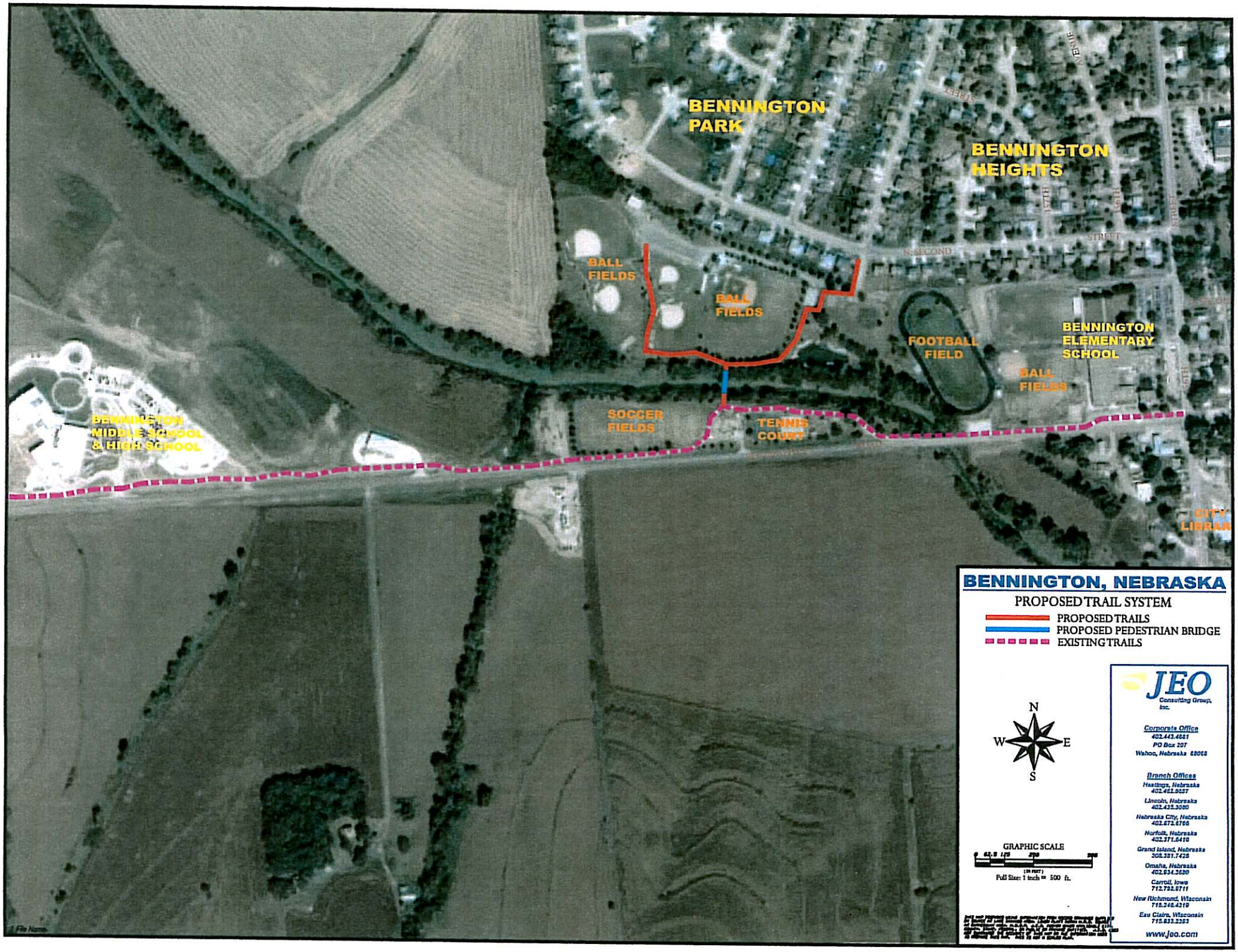
9. COST SHARE REQUEST: $ 41,428

10. SIGNATURE/TITLE: Mindi Laaker, city clerk

** Attach additional sheets as necessary.

Engineering for the project should be May or June. Construction is slated for 2009. Payment from NRD would come after July 2009.

In the fall of 2005, a one-mile trail (Bennington Papio School Trail) was created to connect our community to a new Jr/Sr High School (HS). There are many outdoor facilities along the trail route including a public park, athletic facilities including football, soccer, tennis, track, basketball, sand volleyball, the elementary school and public parking lots. The northern boundary of the park is the Papillion Creek. The Bennington Park and Bennington Heights neighborhoods located northeast of the Jr/Sr HS house most of the children living in the city. The Papillion Creek is located on the south and west side of these neighborhoods and there is no direct walking route to the Jr/Sr HS. To reach the Jr/Sr HS, these students must walk east to 156th St., turn south along a busy 156th St., and then head west on the trail to the school. With the new school, these students have increased their walk to the Jr/Sr HS from .5 mile to 1.5 miles. Constructing a pedestrian bridge over the Papillion Creek with trails connecting the neighborhoods to the existing trail will keep them away from a very busy aterial 156th St. and sidewalks that are currently placed dangerously close to curbs. 156th St. will be widened in 2009 to accommodate a continuing increase in traffic. A pedestrian bridge would provide a safer route to school, and connect the trail to other outdoor features, both schools and neighborhoods as well as a large ball field complex and a basketball court on the north side of the Papillion Creek. Accessing parking lots on both sides of the bridge would eliminate overflow parking problems already in existance at the ball fields and soccer fields. The bridge would be approximately 120 feet long and at this time we prefer a single span bridge to eliminate the possibility of the supports catching debris. On the south, the bridge will connect to the existing Bennington Papio School Trail located in the park and along Bennington Road between the elementary school and the Jr/Sr HS. On the north, the bridge would connect to a trail that would branch off to the east and west. The east branch of the trail will tie into existing neighborhood sidewalks located at the 158th St. and North 2nd St. intersection. The west branch of the trail will tie into a ball field 4-plex and parking lot. All pavement to and from the bridge would be 10 foot wide concrete and a total of 1900 feet in length. Funds requested include grading, paving, tree trimming and removal and a pedestrian bridge. The City of Bennington is currently conducting public studies and gaining input to compile a Master Park Plan. It is anticipated that additional information will be supplied by that project as the Transportation Enhancement Program moves forward.


BENNINGTON PARK
BENNINGTON HEIGHTS
BALL FIELDS
BALL FIELDS
FOOTBALL FIELD
BENNINGTON ELEMENTARY SCHOOL
BALL FIELDS
SOCCER FIELDS
TENNIS COURT
BENNINGTON MIDDLE SCHOOL & HIGH SCHOOL
N. SECOND
STREET
BENNINGTON, NEBRASKA
PROPOSED TRAIL SYSTEM
PROPOSED TRAILS
PROPOSED PEDESTRIAN BRIDGE
EXISTING TRAILS
N
W
E
S
GRAPHIC SCALE
Full Size: 1 inch = 500 ft.
JEO
Consulting Group, Inc.
Corporate Office
402.443.4621
PO Box 207
Wahoo, Nebraska 68066
Branch Offices
Hastings, Nebraska
402.462.9057
Lincoln, Nebraska
402.435.3080
Nebraska City, Nebraska
402.873.6766
Norfolk, Nebraska
402.371.5416
Grand Island, Nebraska
308.381.7429
Omaha, Nebraska
402.934.3620
Carroll, Iowa
712.792.5711
New Richmond, Wisconsin
715.246.4219
Eau Claire, Wisconsin
715.833.2363
www.jeo.com

10' Trail, Bridge & West Ext

CONSTRUCTION COSTS

Item	Unit	No. Req'd	Unit Cost	Cost
Clearing & Grubbing	Acres	1.10	$ 3,000.00	$ 3,300.00
Large Tree Removal	Each	10	$ 250.00	$ 2,500.00
Earthwork (Cut & Fill, N/A ON RR Grade)	Cu. Yd.	2,900	$ 10.00	$ 29,000.00
Seeding	Acres	0.70	$ 2,000.00	$ 1,400.00
Silt Fence (erosion control)	Lin Ft	500	$ 2.50	$ 1,250.00
Erosion Control Matting	Sq Yd	800	$ 2.75	$ 2,200.00
Grind Concrete Curb for Curb Ramp	Each	1	$ 35.00	$ 35.00
Remove Sidewalk	Sq Ft	160	$ 1.50	$ 240.00
Remove Timber Retaining Wall	Lin Ft	20	$ 7.50	$ 150.00
Relocate Landscaped Area	Sq Ft	200	$ 5.00	$ 1,000.00
6" Concrete Bikeway- 10 ft wide	Sq Ft	19,000	$ 2.80	$ 53,200.00
Subgrade Preparation	Sq Yd	19,000	$ 1.25	$ 23,750.00
Curb Ramps	Each	2	$ 650.00	$ 1,300.00
Modular Block Retaining Wall	Sq Ft	210	$ 25.00	$ 5,250.00
Hand Railing or Fencing System(at Wall)	Lin Ft	0	$ 35.00	$ -
Bollards	Each	2	$ 250.00	$ 500.00
Crosswalks (tape)	Each	1	$ 750.00	$ 750.00
Signage (MUTCD)	Each	6	$ 175.00	$ 1,050.00
12 Foot Wide Pedestrian Bridge	Lin Ft	120	$ 1,500.00	$ 180,000.00
Construction Costs Subtotals				**$ 306,875**
PRIVATE UTILITY RELOCATION COSTS				
Light/Power Pole Relocation	Each			$ -
Utility Pedestal Relocation	Each			$ -
Fire Hydrant Relocation	Each			$ -
				$ -
Utility Relocation Costs Total				**$ -**
Construction & Utility Costs Subtotal				**$ 306,875**
Mobilization (1)	Lump Sum	1	8%	$ 24,550
Construction Costs Total				**$ 331,425**
ENGINEERING COSTS				
Preliminary Engineering (2)	Lump Sum	1	10%	$ 33,143
Construction Engineering/Contingency (3)	Lump Sum	1	14%	$ 46,400
NDOR Representative (4)	Lump Sum	1	1%	$ 3,314
Engineering Costs Total				**$ 82,856**
Total Project Costs (Construction+Utility Relocation+Engineering Costs)				**$ 414,281**
IN-KIND DONATIONS				
Less- In-Kind Contribution (5)				$ -
TOTAL IN-KIND DONATIONS				**$ -**

FUNDING SOURCES (6)

In-Kind Donation	**0%**	$ -
Applicant's Cash Match	**20%**	**$ 82,856**
Federal Funding	**80%**	**$ 331,425**

CITY OF SOUTH SIOUX CITY

ARBOR ACRES TRAIL

February 14, 2008

PROJECT NAME: ARBOR ACRES TRAIL

PROJECT SPONSOR: CITY OF SOUTH SIOUX CITY
1615 FIRST AVENUE
SOUTH SIOUX CITY NE 68776 – 2245

CONTACT PERSON: BRENT BROWN
DIRECTOR OF PARKS & RECREATION

TELEPHONE: 402-494-7540

PROJECT LOCATION: ARBOR PARK TO DIBLE SOCCER COMPLEX- 1280 Riverview Dr.

PROJECT DESCRIPTION:

The City of South Sioux City vision is in 2020, South Sioux City is a vibrant community that provides a tremendous quality of life for all citizens defined by outstanding educational and employment opportunities. With our strong commitment to environmental stewardship, we are a recreational, cultural, economic, and technological hub of the Midwest. To meet that vision the South Sioux City Parks and Recreation Department is developing its trails system to be one of the best in the area and state.

The Arbor Acres Trial is a connection between Arbor Park and the Al Bengtson Trail. The need for the trail was brought to the City Council by elderly residents of an assisted living community to allow them access to the riverfront. This trial would also service over 700 residents living in a large 3 unit apartment complex and many single family homes in the area. The largest South Sioux City Elementary School, Harney Elementary, will be added to schools where the city's trail system passes allowing for safer bicycling and walking to school for kids in that area.

This grant would allow us to help pay for half of the City's portion of the project. The Arbor Acres Trail has a total cost of $168,200.00, 80% or $134,560.00 of the project is being funded through the Nebraska Game and Parks Recreational Trails Program Fund. The City of South Sioux would like to ask the Papio-Missouri NRD to share 50% of the remaining costs or $16,820.00.

TOTAL ESTIMATED COST: $168,200.00

COST SHARE REQUESTED: $16,820.00

SIGNATURE / TITLE:

Robert Giese, Mayor of South Sioux City, NE

Total Estimated Cost:

Arbor Acres Trail

Construction Cost Estimate

South Sioux City, Nebraska

30-Aug-06

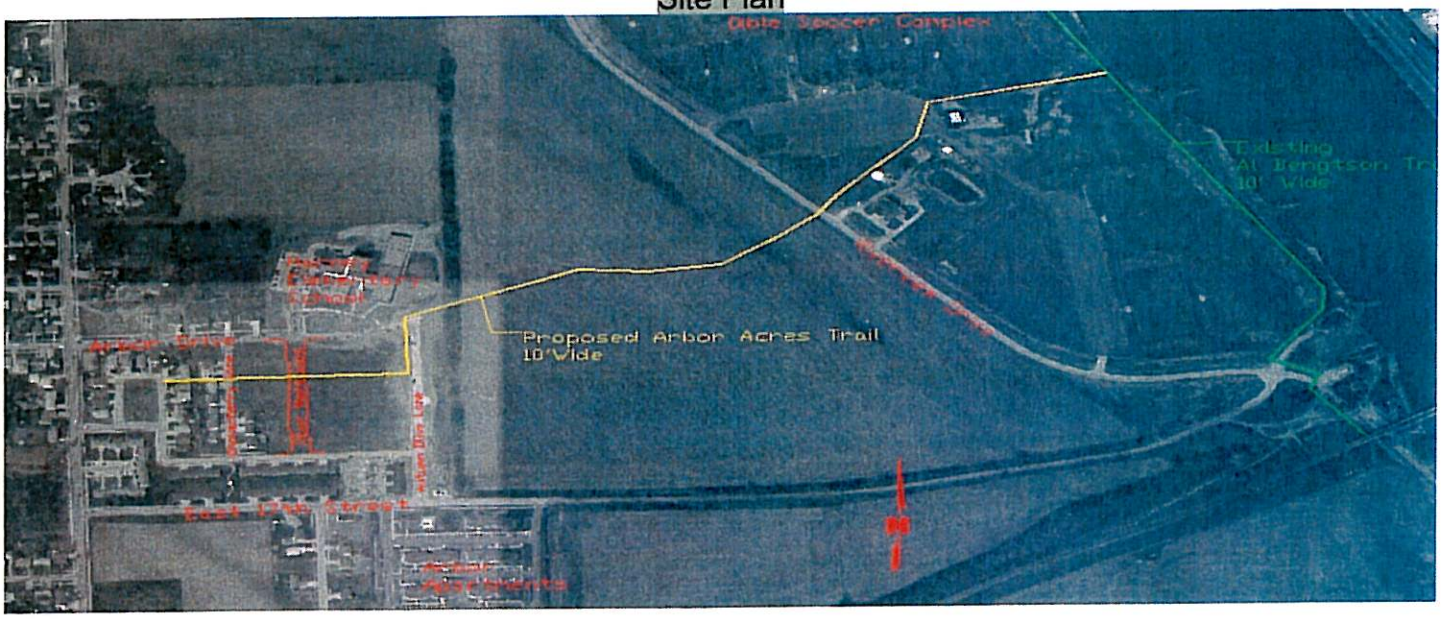
Item No.	Description	Quantity	Units	Unit Price	Total Cost
	ARBOR ACRES TRAIL				
1	Traffic Control	1.00	LS	1,000.00	1,000.00
2	Construct 6" PCC Trail (3954' X 10')	4,395.00	SY	23.00	101,085.00
3	Subgrade Prep (3954' X 14' X 1')	2,050.00	CY	5.00	10,250.00
4	Clearing & Grubbing	1.00	LS	2,200.00	2,200.00
5	Adjust Manholes to Grade	3.00	EA	250.00	750.00
6	Signing	12.00	EA	200.00	2,400.00
7	Seeding	1.00	AC	2,000.00	2,000.00
8	Construct Red Brick Crosswalks	167.50	SY	70.00	11,725.00
	SUBTOTAL				131,410.00
	Mobilization (8%)				10,512.80
	Design Engineering (10%)				13,141.00
	Construction Engineering (10%)				13,141.00
	CONSTRUCTION SUBTOTAL				168,204.80
	Construction Costs Total		=		**168,204.80**
	Recreational Trails Program Funding (80%)				$134,563.84
	Applicants Cash Match (20%)				$33,640.96

Schedule:

After announcement of being funded.

- Notify media of grant from Papio Missouri River Natural Resource District.
- October 2008 get Design and Specs ready.
- March 2009 get bids for project.
- May 2009 start construction of project.

Site Plan



The Arbors Apartment Complex- 700 residents

Form 17.40 A

TRAILS ASSISTANCE PROGRAM

APPLICATION FORM

1. DATE: February 15, 2008

2. PROJECT NAME: Springfield Trail Phase 3

3. PROJECT SPONSOR: City of Springfield
(Address)

P.O. Box 189, 170 North 3rd Street

Springfield, NE 68059

4. CONTACT PERSON: Kathleen R. Fauver TITLE: City Clerk/Treasurer

5. TELEPHONE: (402) 253-2204

6. PROJECT LOCATION **: Please see attached.

7. DESCRIPTION OF PROJECT **: Please see attached.

8. TOTAL ESTIMATED COST: $ 564,382.00

9. COST SHARE REQUEST: $ 56,438.50

10. SIGNATURE/TITLE: Dorothy Richards

Dorothy Richards, Mayor

** Attach additional sheets as necessary.

Papio-Missouri River Natural Resources District
Recreation Area Development Program

Springfield Trail Phase 3

6. Project Location

Springfield Trail Phase 3 will run parallel to Highway 50 along the Springfield Creek corridor. The trail will begin at the 144th Street Trailhead located south of the Southern Sarpy Activities Complex. The trail will wind south through the Springfield Creek corridor, at which it will cross the creek in two locations with prefabricated bridges. The trail will continue south where it will connect with the existing MoPac Trail at the Sarpy County Fairgrounds. A general location map is included in this application.

7. Description of Project

Springfield Trail Phase 3 will be 10 feet wide, 6 inch thick concrete, approximately 3,900 feet long and will include two pedestrian bridges 80 feet and 120 feet long. The trail corridor is on City owned land with short segments on two privately owned properties and the Sarpy County Agricultural Society's property. Depending on final trail alignment, the trail may pass over just one privately owned property and the Sarpy County Agricultural Society's property. The City will obtain legal easements as per Transportation Enhancement Program guidelines.

Springfield Trail Phase 3 is part of the Metro Connection Priority Regional Corridor, identified in the 2004 Comprehensive Trails Plan for the State of Nebraska as connecting Nebraska's two largest cities – Omaha and Lincoln. The City of Springfield has adopted a Comprehensive Plan, completed by RDG Crose Gardner Shukert, that includes this off-street trail. A portion of the Springfield Comprehensive Plan has been included in this application. In addition to being a connecting link on the high traffic regional trail and providing a wonderful benefit to a highly populated area, the Springfield Trail Phase 3 segment will provide safe and convenient off-street alternative transportation for local residents to the Southern Sarpy Activities Complex, the Springfield Creek Trails and Recreation Area and the Sarpy County Fairgrounds. The trail will also be near the Town Center and the Arts and Tourism District, which will enhance travel from visitors to local businesses.

The City of Springfield will obtain all necessary local, state and federal permits required for the construction of Springfield Trail Phase 3. The City of Springfield will manage the trail and provide all future operation and maintenance of the project at no cost to the Papio-Missouri River Natural Resources District. The City of Springfield will adhere to all implementation schedules provided by the Nebraska Department of Roads and will have the project at the 90% design completion point and have the local cash match in place by December 6, 2008, as per the Nebraska Department of Roads request.

The Nebraska Department of Roads has approved the $564,382.00 project and authorized funding of $451,505.00 through the Transportation Enhancement Program. The City is requesting one-half of the Transportation Enhancement Program's cost share of $56,438.50.

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09-12-2007 07:43:21 janutson

KIRKHAM MICHAEL

VICINITY MAP

CITY OF SPRINGFIELD
170 N 3rd STREET
SPRINGFIELD, NE 68059

SHEET	date	TRAIL MAP	SPRINGFIELD FAIRGROUNDS TRAIL	revisions	KIRKHAM MICHAEL
1	09/05 designed RLR checked RLR by RLR		SPRINGFIELD NEBRASKA		

ENGINEER'S PRELIMINARY COST ESTIMATE **July 16, 2007**
CITY OF SPRINGFIELD FAIRGROUNDS TRAIL
LOCATION: PLATTEVIEW ROAD TO FAIRGROUNDS (WEST ALIGNMENT) RLR

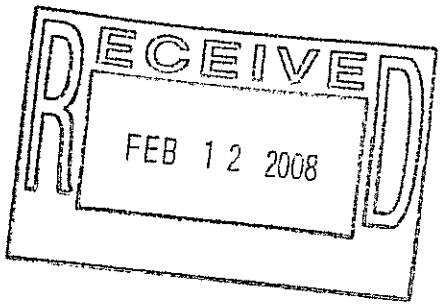
TRAIL TO BE 10-FEET WIDE AND 6-INCHES THICK
APPROXIMATELY 3,900 LF OF CONCRETE TRAIL- 6 - INCHES THICK

Item #	Item	Quantity	Unit	Unit Cost	Cost
1	Clearing and Grubbing	1.8	ACRE	$ 5,000	$ 9,000.00
2	Earthwork (Cut & Fill)	2,000	CY	$ 7.00	$ 14,000.00
3	Subgrade Preparation	6,100	SY	$ 2.50	$ 15,250.00
4	6" Concrete Trail	4,400	SY	$ 32	$ 140,800.00
5	9" Concrete Trail at Driveway	45	SY	$ 38	$ 1,710.00
6	North Pedestrian Bridge and Abutments	1	LS	$ 88,000	$ 88,000.00
7	South Pedestrian Bridge and Abutments	1	LS	$ 132,000	$ 132,000.00
8	24-Inch CMP Culvert	40	LF	$ 70	$ 2,800.00
9	Bollards	2	EACH	$ 250	$ 500.00
10	Signage	14	EACH	$ 250	$ 3,500.00
11	Seeding Type "B"	1.0	ACRE	$ 2,500	$ 2,500.00
12	San sewer/storm/ Fire Hydrant relocations	4	EACH	$2,000	$ 8,000.00
				Subtotal Estimated Construction Cost	**$ 418,060.00**
13	Mobilization	1	LS	8% of Subtotal	$ 33,445.00
				Estimated Total Probable Construction Cost	**$ 451,505.00**

ENGINEERING COSTS		
Preliminary Engineering (10%)	$	45,151.00
Construction Engineering/Contingency (14%)	$	63,211.00
NDOR Project Representative Costs (1%)	$	4,515.00
Engineering Costs Total	**$**	**112,877.00**
TOTAL ESTIMATED PROJECT COSTS	**$**	**564,382.00**

Funding Sources			
Applicant Cash Match	20.00%	$	112,876.00
Federal Funding	80.00%	**$**	**451,506.00**

Notes:
1. Clearing and Grubbing quantity based on: (20 feet x trail length) divided by 43,560.
2. Construction Engineering/Contingency includes 5% for contingencies.
3. Subgrade Preparation includes bikeway width plus 2-feet.
4. North pedestrian bridge is 80 feet long
5. South pedestrian bridge is 120 feet long



Form 17.40 A

TRAILS ASSISTANCE PROGRAM

APPLICATION FORM

1. DATE: FEBRUARY 12th, 2008
2. PROJECT NAME: MIDLAND CREEK TRAIL
3. PROJECT SPONSOR: CITY OF PAPILLION
   (Address)
   122 EAST 3RD STREET
   PAPILLION NE 68046
4. CONTACT PERSON: MARTY LEMING TITLE: DIRECTOR OF PUBLIC WORKS
5. TELEPHONE: (402) 597-2044
6. PROJECT LOCATION ** : 72ND STREET (WEST SIDE) FROM HWY 370 TO 1ST STREET
7. DESCRIPTION OF PROJECT ** : A 10-FOOT-WIDE CONCRETE TRAIL THAT WILL BE MORE THAN A MILE LONG.
8. TOTAL ESTIMATED COST: $ 498,960.00
9. COST SHARE REQUEST: $ 49,896.00
10. SIGNATURE/TITLE: DIRECTOR OF PUBLIC WORKS

** Attach additional sheets as necessary.

CONSTRUCTION COSTS

ITEM	UNIT	QUANTITY	UNIT COST	COST
Site Preparation - Clearing	SF	6960	$10.00	$69,600
Site Preparation - Earthwork	CY	2300	$4.00	$9,200
Pedestrian Walkway/Crosswalk	SF	8345	$15.00	$125,175
Streetscape	LS	1	$15,000	$15,000
Landscape	SF	11035	$8.00	$88,280
Lighting	EA	6	$3,000	$18,000
Signage	EA	20	$345.00	$6,900
Safety Railing	LF	62	$100.00	$6,200
CONSTRUCTION COSTS SUBTOTAL				$338,355
Mobilization	LS	1	8%	$27,068
CONSTRUCTION COSTS TOTAL				**$365,423**

ENGINEERING COSTS

Preliminary Engineering	EA	1	10%	$33,836
Construction Engineering/Contingency	EA	1	14%	$47,370
NDOR Project Representative Costs	EA	1	1%	$3,371
ENGINEERING COSTS TOTAL				**$84,576**
SUBTOTAL PROJECT COSTS (Construction Costs + Engineering Costs)				**$450,000**
TOTAL PROJECT COSTS				**$450,000**

FUNDING RESOURCES

Applicant's Cash Match	20%			$90,000
Federal Funding	80%			$360,000

Midland Creek Trail

Form 17.40 A

TRAILS ASSISTANCE PROGRAM

APPLICATION FORM

1. DATE: 2/4/08

2. PROJECT NAME: Pioneer Park Trail

3. PROJECT SPONSOR: City of Fort Calhoun, NE
(Address)

110 South 14thSStreet

Fort Calhoun NE 68023

4. CONTACT PERSON: Paul Oestmann TITLE: Mayor

5. TELEPHONE: 402-468-5303

6. PROJECT LOCATION ** : See attached site plan.

The trail is located within and adjacent to Pioneer Park in the City of Fort Calhoun.

7. DESCRIPTION OF PROJECT ** : The project consists of an 8-foot wide concrete trail approximately 2,475 feet in length. The project will also include an ADA accessible trail head.

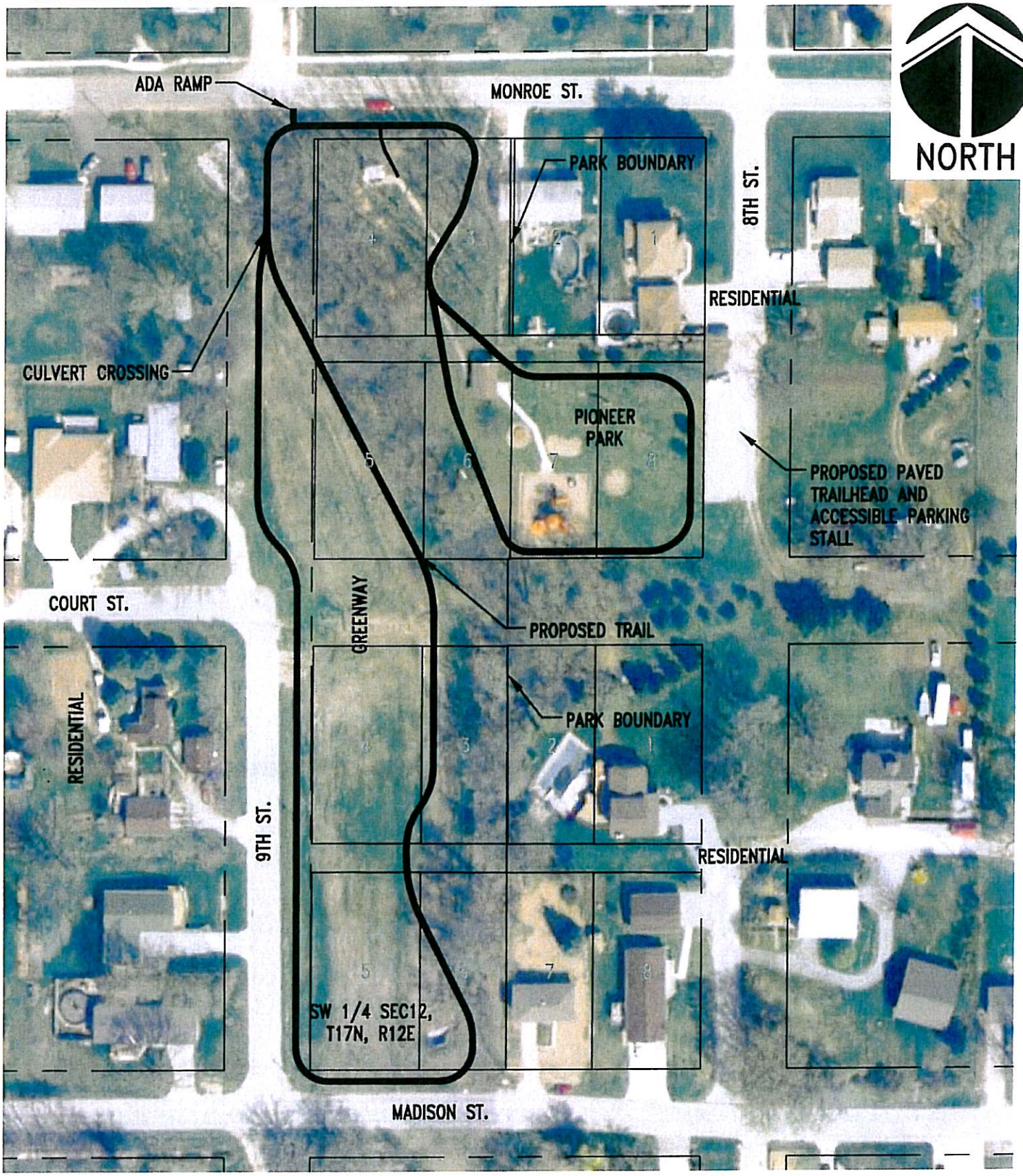
8. TOTAL ESTIMATED COST: $ 170,400

9. COST SHARE REQUEST: $ 17,040

10. SIGNATURE/TITLE: Paul C. Oestmann, Mayor

** Attach additional sheets as necessary.

THE SCHEMMER ASSOCIATES		PROJECT: PIONEER PARK TRAIL DEVELOPMENT	
		JOB NO: 345301	
DATE: 10/17/07	DRAWN: DJK	SCALE: 1"=100'	SHEET NO:
SHEET TITLE: SITE PLAN			

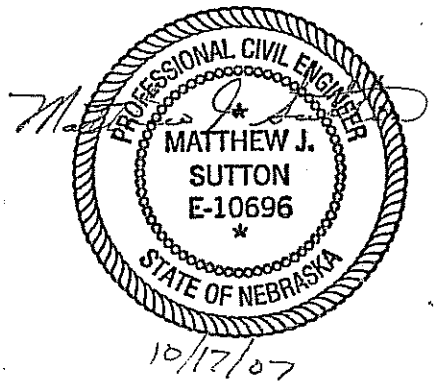


DEVELOPMENT OF PIONEER PARK TRAIL
October 17, 2007

CONSTRUCTION COSTS					
Item No.	Description	Appr. Quantity	Unit	Unit Cost	Total Cost
1	Clearing and Grubbing	1.14	AC	$ 2,000.00	$ 2,280.00
2	Remove Sidewalk	600	SF	$ 3.00	$ 1,800.00
3	Adjust Manhole to Grade	1	EA	$ 500.00	$ 500.00
4	Relocate Light Pole	1	EA	$ 1,500.00	$ 1,500.00
5	Excavation	1,600	CY	$ 8.00	$ 12,800.00
6	Subgrade Preparation (trail width plus 2' on each side of trail)	3,300	SY	$ 2.75	$ 9,075.00
7	6" P.C.C. Trail (8' Wide)	2,200	SY	$ 30.00	$ 66,000.00
8	Trail Signage (MUTCD)	8	EA	$ 225.00	$ 1,800.00
9	Migratory Bird Survey	1	EA	$ 2,500.00	$ 2,500.00
10	Bollards	4	EA	$ 200.00	$ 800.00
11	48" RCP	80	LF	$ 100.00	$ 8,000.00
12	48" RCP Flared End Section	4	EA	$ 500.00	$ 2,000.00
13	7" P.C.C. for Trailhead	500	SY	$ 35.00	$ 17,500.00
14	ADA Curb Ramps	2	EA	$ 500.00	$ 1,000.00
15	Handicap Stall Pavement Markings	1	LS	$ 250.00	$ 250.00
16	Handicap Signage	1	EA	$ 225.00	$ 225.00
17	Silt Fence	500	LF	$ 2.75	$ 1,375.00
18	Seeding	0.7	AC	$ 1,500.00	$ 1,050.00
19	Trees	5	EA	$ 200.00	$ 1,000.00
				Subtotal	$ 131,455
				Mobilization 8%	$ 10,516
				Estimated Total Probable Construction Cost	$ **142,000**

ENGINEERING COSTS		
Design Engineering:	10%	14,200
Construction Engineering/Contingency:	10%	14,200
	Estimated Total Engineering Cost	**28,400**
	ESTIMATED TOTAL PROJECT COST	$ **170,400**

FUNDING SOURCES		
Applicant's Cash Match	20%	$ 34,080
Federal Funding	80%	$ 136,320



Urban Drainageway Program

The Urban Drainageway Program (UDP) cost shares with units of government to solve erosion, flooding, and other stormwater management concerns on major drainageways within their jurisdiction. The cost share rate is 60%. Board approval is required on all applications.

The District received the following applications under the Urban Drainageway Program.

- The Brookhaven SID has requested financial assistance to solve an erosion problem on a reach of Hell Creek immediately north of Harrison Street. The estimated cost of the improvements is $832,500. The SID is requesting 60% of this amount, or **$499,500**.

- The City of Papillion has requested financial assistance to stabilize a drainageway located north of Centennial Road west of 72nd Street in Papillion. The estimated cost of the improvements is $91,500. They are requesting 60% of this amount, or **$54,900**.

- The City of Valley has requested financial assistance in improving the North Spruce Street Drainageway in the northern part of the city. The estimated cost of the project is $310,800. The City has obtained a Hazard Mitigation Grant through the Nebraska Department of Natural Resources for $233,100 for the project. The local share of the project costs is estimated to be $77,700. The City is requesting 50% of this amount, or **$38,850** from the District to complete the funding package.

- The City of Bellevue has requested financial assistance to stabilize a drainageway located east of Fort Crook Road at Arboretum Drive in Bellevue. The project involves extending and redirecting a box culvert to stabilize the area. The estimated cost of the project is $90,122. They are requesting 60% of this amount, or **$54,073**.

- The City of Omaha Parks Department has requested financial assistance to stabilize a drainageway crossing the proposed Keystone East Trail east of 60th Street. The improvements include a drop structure under the proposed trail and some channel modifications. The estimated cost of the project is 119,450. They are requesting 60% of this amount or, **$71,650**.

- The City of Omaha Public Works Department has requested financial assistance for a stream restoration project on a reach of Cole Creek between Sorenson Parkway and Hartman Avenue. The total cost of the project is $1,418,500. The City is requesting 60% of this amount, or **$851,800**.

- The City of Omaha Public Works Department has requested financial assistance to stabilize a minor tributary to the West Papillion Creek in the Cambridge Oaks Neighborhood located northeast of 168th and Pacific Streets. The estimated cost of the project is $118,000. The City is requesting 60% of this amount, or **$70,800**.

The following table summarizes the applications for FY 2009. The FY 2008 Budget included $243,597 for this item.

Sponsor	Total Estimated Cost	Cost Share Requested
Brookhaven SID	$832,500	$499,500
City of Papillion	$91,500	$54,900
City of Valley	$310,800	$38,850
City of Bellevue	$90,122	$54,073
City of Omaha (Keystone)	$119,450	$71,650
City of Omaha (Cole Creek)	$1,418,500	$851,800
City of Omaha (Cambridge Oaks)	$118,000	$70,800
Grand Total	**$2,980,872**	**$1,641,573**

- **Management recommends that the subcommittee recommend to the Board that the applications from Brookhaven SID for $499,500, the City of Papillion for $54,900, the City of Valley for $38,850, the City of Bellevue for $54,073, the City of Omaha (Keystone Trail) for $71,650, the City of Omaha (Cole Creek) for $851,800, and the City of Omaha (Cambridge Oaks) for $70,800, for a total of $1,641,573, subject to funding in the FY 2009 Budget.**

PAPIO-MISSOURI RIVER
NATURAL
RESOURCES
DISTRICT
8901 S. 154th ST.
OMAHA, NE 68138-3621
(402) 444-6222
FAX (402) 895-6543

Form 17.17.A.

URBAN DRAINAGEWAY PROGRAM

APPLICATION

1. DATE: 3-13-08.
2. PROJECT NAME: BROOKHAVEN / HELL CREEK BANK STABILIZATION
3. PROJECT SPONSOR: SID 294 C.O. E:A CONSULTING GROUP
   (Address) 330 N 117TH STREET
   OMAHA, NE 68154
4. CONTACT PERSON: RANDY PIERCE TITLE: ENGINEER VIII
5. TELEPHONE: 895-4700.
6. PROJECT LOCATION **: HELL CREEK, APPROXIMATLY 500' NORTH OF 110TH & HARRISON STREET
7. PROPOSED IMPROVEMENTS **: SHEET PILE, GABIONS & EXISTING RIP RAP RELOCATION FROM CREEK
8. TOTAL ESTIMATED COST: $ 121,400.00.
9. COST SHARE REQUEST: $ 72,840.00.
10. IMPLEMENTATION SCHEDULE: SPRING 2008
11. SIGNATURE/TITLE: Randall L Pierce / ENGINEER VIII
    REPRESENTING SID 294

** Attach additional sheets as necessary.

Hell Creek Stabilization - Brookhaven
Basic Approach and Preliminary Costs
3/31/2008

Project Approach

1) Stream Assessment (Including the Morphological State of the Stream)
2) Data Collection (Survey, Geotech, Historical Data, Existing H&H Models)
3) Engineering Analysis (Hydrology and Hydraulics, Geomorphic Analysis and Channel Stability, etc)
4) Design

Preliminary "Ball-Park" Costs

Feature		Cost
Reconstruct Drop Structure Downstream from Brookhaven Outlet (Depends on Depth of Sheeting)	$	25,000.00
Construct 2' Drop North of Brookhaven Outlet	$	25,000.00
Construct Energy Dissipation Structure at Brookhaven Outlet	$	60,000.00
Construct Sheet Pile Protection At Pedestrian Bridge Abutments with Tiebacks	$	80,000.00
Construct Sheet Pile Protection with Tiebacks For Ballfield South of Bridge (East Abutment)	$	60,000.00
Construct 2' Drop 1/3 Point Between Ped Bridge and Harrison St Bridge	$	25,000.00
Construct 2' Drop at 2/3 Point Between Ped Bridge and Harrison St Bridge	$	25,000.00
Relocate Storm Sewer Manhole and Outlet (SE Corner of Parking Lot)	$	15,000.00
Channel Earthwork (primarily laying back the west slope and defining the streambed)	$	60,000.00
Channel Toe Protection (1200 LF)	$	50,000.00
Miscellaneous Rip-Rap Protection	$	80,000.00
Erosion Control and Vegetation Re-establishment	$	50,000.00
Contingency (20%)	$	111,000.00
Estimated Construction Total	$	666,000.00
Estimated Study, Engineering, Geotechnical and Materials Testing Soft Costs (25%)	$	166,500.00
Estimated Total Costs	$	832,500.00
Range of Estimated Total Costs Per Linear Foot (500-1000 LF depending on how the creek length is defined)	$	832.50 to $ 1,665.00

NOTE: Consideration should be given to constructing a single larger drop structure downstream from the Harrison Street Bridge. This would return the channel closer to its historical depth and a smaller cross sectional channel area that could translate into a reduction in costs.

NOTE: Estimates are very preliminary and are not based on an actual study of the creek system

URBAN DRAINAGEWAY PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: March 7, 2008

2. PROJECT NAME Centennial Road Creek

3. PROJECT SPONSOR: City of Papillion

ADDRESS: 122 East Third Street

Papillion, Nebraska 68046

4. CONTACT PERSON: Marty Leming

TITLE: Public Works Director

5. TELEPHONE: (402) 597-2044

6. PROJECT LOCATION:
Channel - North side of Centennial Road, from east side of Rogers Drive, to North side of Centennial Road approximately 60' east of Magnolia Avenue

7. DESCRIPTION OF PROBLEM:

Channel erosion

8.PROPOSED SOLUTION:

Channel reshaping & vegetative bank stabilization

9. TOTAL ESTIMATED COST: $ 91,500

10. COST SHARE REQUESTED: $ 54,900

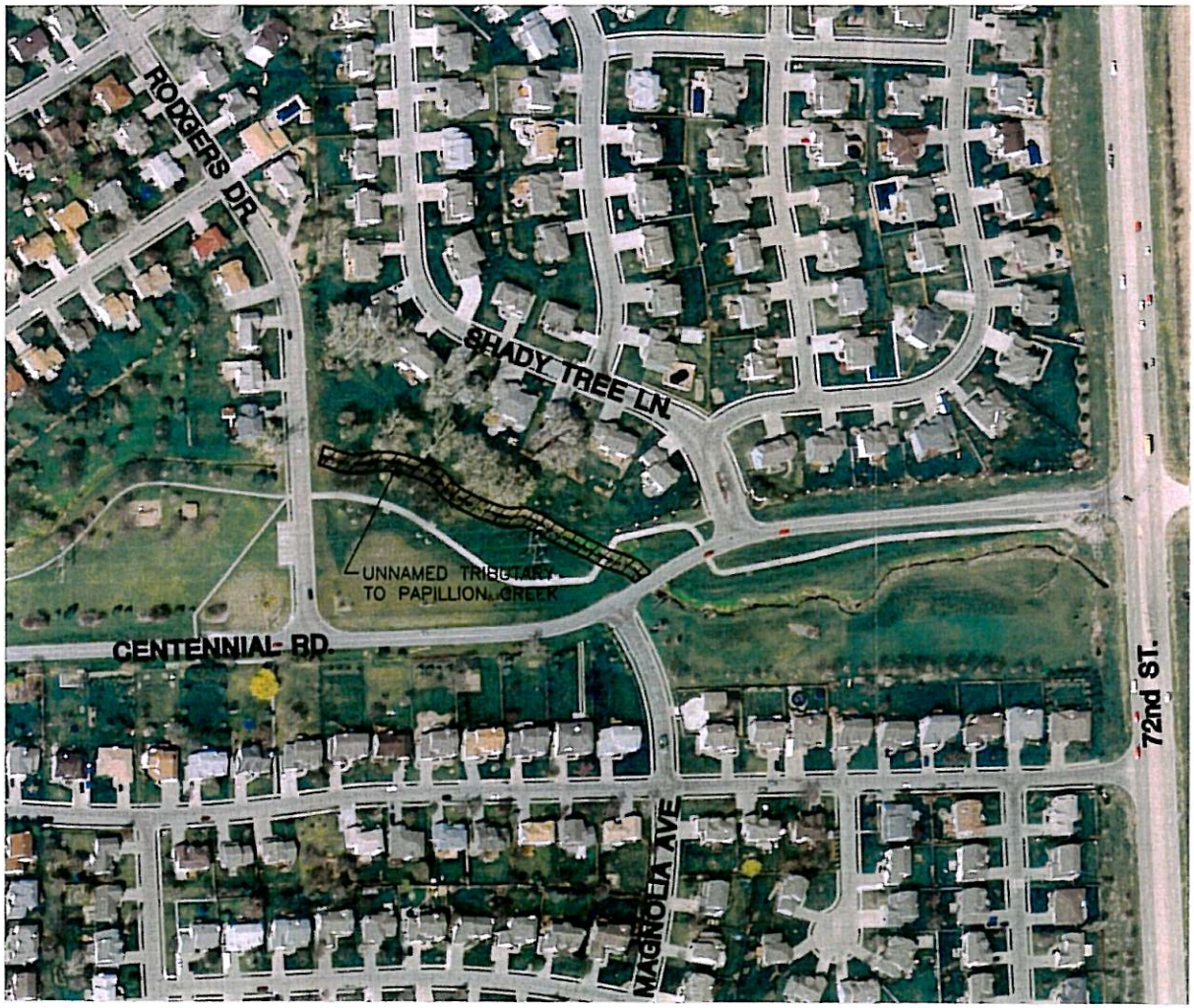
11. SIGNATURE/TITLE:

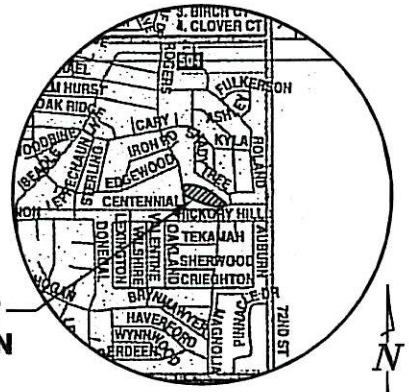
FORM 17.17

Unamed Channel North of Centennial Road
Lot 143 Hickory Estates
Rogers Drive to Centennial Road
City of Papillion, Nebraska

TDD 181-513
3/6/2008

Item	Description	Approx. Quantity	Unit		Unit Price		Amount
1	Clearing and Grubbing	1	JOB	$	6,000.00	$	6,000.00
2	Steam Bank Grading	1	JOB	$	35,000.00	$	35,000.00
3	Repair Drop Structure	1	JOB	$	7,000.00	$	7,000.00
4	Furnish and Install Stone Rip Rap, Type "C"	130	TONS	$	40.00	$	5,200.00
5	Semi-Permanent Turf Reinforcement Mat	4200	S.Y.	$	2.00	$	8,400.00
6	Seed, Fertilize and Mulch	1	AC	$	2,500.00	$	2,500.00
7	Tree Removal and Disposal	5	EA	$	1,000.00	$	5,000.00
8	Erosion Control	1	JOB	$	2,500.00	$	2,500.00
	Total Estimated Construction					$	71,600.00
	Estimated Engineering & Surveying					$	12,700.00
	Contingency 10%					$	7,160.00
	Estimated Total Project					**$**	**91,460.00**
					Round Off, Use	**$**	**91,500.00**





PROJECT LOCATION

VICINITY MAP

N

N

0' 100' 200' 400'

SCALE IN FEET

CHANNEL IMPROVEMENTS

THE CITY OF PAPILLION

EXHIBIT A

AS SHOWN | 3-7-08 | ASB | TTP

THOMPSON, DREESSEN & DORNER, INC.
Consulting Engineers & Land Surveyors
10836 OLD MILL ROAD OMAHA, NEBRASKA 68154
PHONE 402.330.8860 FAX 402.330.5866 EMAIL TDD@TDD.COM
WEBSITE WWW.TDD.COM

181-513

SHEET 1 OF 1

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT
8901 S. 154th Street
Omaha, NE 68138-3621
402-444-6222
www.papionrd.org

URBAN DRAINAGEWAY PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: March 14, 2008

2. PROJECT NAME North Spruce Street Drainageway Improvements

3. PROJECT SPONSOR: City of Valley

ADDRESS: 203 North Spruce Street
Valley, Nebraska 68064

4. CONTACT PERSON: Mary Caffey

TITLE: Mayor

5. TELEPHONE: (402) 359-2251

6. PROJECT LOCATION:
North Spruce Street - Valley, Nebraska
See aerial map included in Drainage Study

7. DESCRIPTION OF PROBLEM: Drainage conditions within the North Spruce Street Drainage Basin are poor. Existing drainageways are partially plugged with trees, debris, and silt and have not been maintained by land owners. During periods of heavy rainfall, surface flooding occurs resulting in it taking days for the water to drain out of the basin.

8.PROPOSED SOLUTION: The City proposes to gain control of the drainageway by obtaining temporary easements for construction of ditch improvements and permanent easements for the annual maintenance of the drainageways. The City proposes to remove all trees, brush and debris, grade the drainage ditch and establish consistent cross sections, seed the drainageway, and provide grassed buffers on each side for control of the agricultural operations adjacent to the new drainageway.

9. TOTAL ESTIMATED COST: $ 310,800

10. COST SHARE REQUESTED: $ 38,850

11. SIGNATURE/TITLE: Mary Caffey, Mayor

FORM 17.17

The City of Valley intends to acquire a permanent drainage easement for the drainageway improvements across private land in the basin. Acquisition will be obtained through negotiation or condemnation so that the City can assure maintenance of the drainageway in the future by its own forces and not have to rely on maintenance work by the private landowners.

D. ESTIMATE OF COSTS

The estimate of cost to construct the improvements is as follows:

North Spruce Street Drainage Improvements
Valley, Nebraska

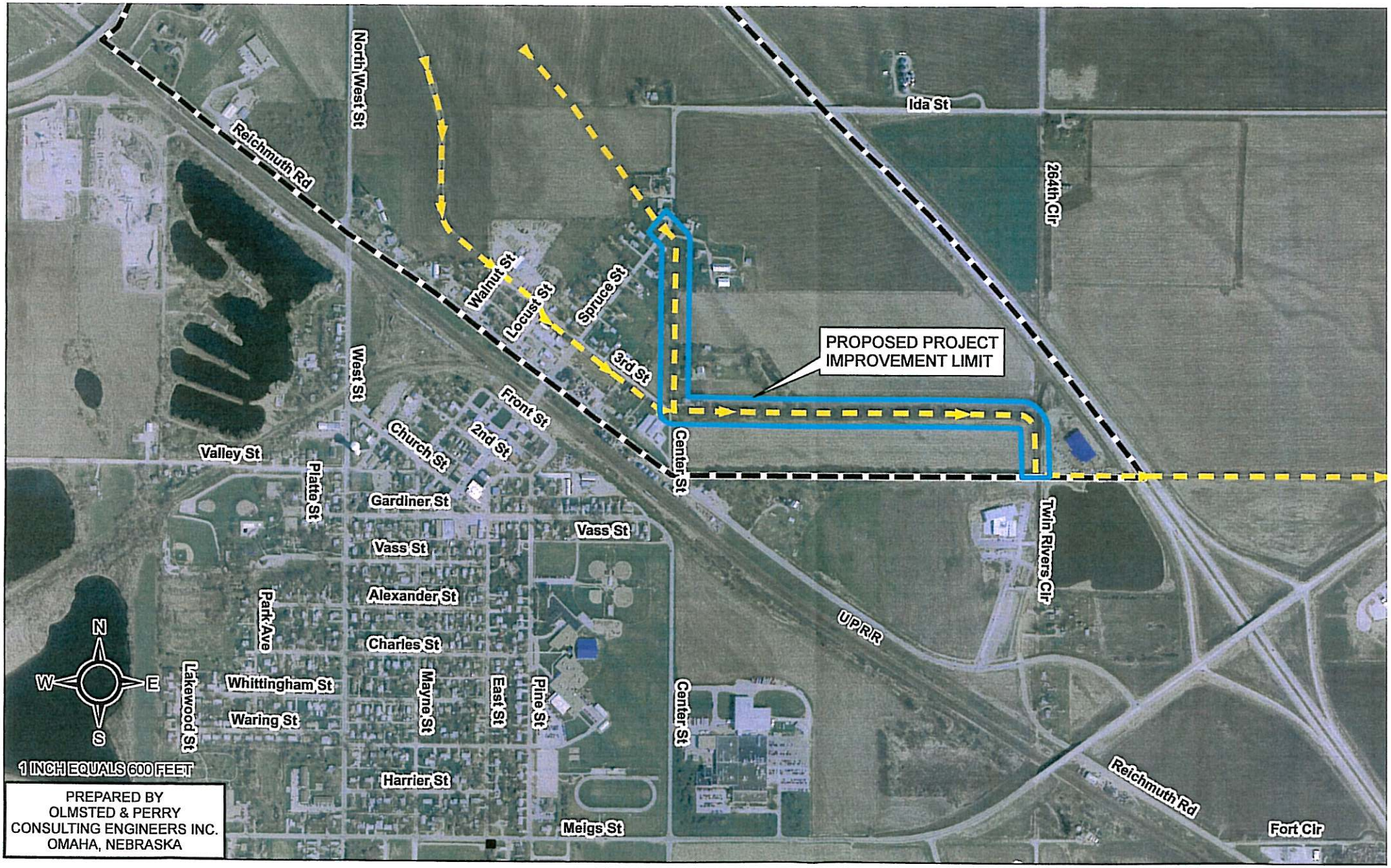
Estimate of Costs

1. Mobilization	$ 10,000
2. Clearing and grubbing of trees and bushes	36,000
3. Ditch excavation including disposal	86,800
4. Erosion control mat including shaping of drainageway	56,800
5. Seeding and surface restoration	9,600
Estimate of Construction Cost:	$199,200
6. Engineering and Legal Soft Costs and Miscellaneous:	59,800
7. Contingencies	51,800
TOTAL ESTIMATED PROJECT COST:	$310,800

E. FINANCING AND PROJECT IMPLEMENTATION

It is recommended that the City of Valley explore financial assistance to help undertake the project. Programs are currently available which might be able to provide assistance to the City in accomplishing the needed drainage improvements.

Two current programs available for consideration are the Hazard Mitigation Grant Program (HMGP) as administrated by the Nebraska Emergency Management Agency, and the Urban Drainageway Program as administrated by the Papio-Missouri River Natural Resources District. The HMGP program provides grants to local governments to implement long-term mitigation measures to solve drainage problems similar to that which exists in Valley. Improvement projects can be cost shared at 75 percent federal funding and 25 percent local funding.


PROPOSED PROJECT IMPROVEMENT LIMIT
North West St
Reichmuth Rd
Ida St
264th Cir
Walnut St
Locust St
Spruce St
3rd St
West St
Front St
2nd St
Church St
Valley St
Platte St
Gardiner St
Vass St
Vass St
Alexander St
Park Ave
Charles St
Whittingham St
Waring St
Lakewood St
Mayne St
East St
Pine St
Center St
Center St
Twin Rivers Cir
UPRR
Reichmuth Rd
Fort Cir
Harrier St
Meigs St
N
W
E
S
1 INCH EQUALS 600 FEET
PREPARED BY
OLMSTED & PERRY
CONSULTING ENGINEERS INC.
OMAHA, NEBRASKA

RECEIVED
MAR 14 2008

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT
8901 S. 154th Street
Omaha, NE 68138-3621
402-444-6222
www.papionrd.org

URBAN DRAINAGEWAY PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: 3/14/08

2. PROJECT NAME FORT CROOK RD EROSION PROTECTION

3. PROJECT SPONSOR: CITY OF BELLEVUE

ADDRESS: 210 W. MISSION

BELLEVUE, NE. 68005

4. CONTACT PERSON: DAVE PETROCCHI

TITLE: CITY ENGINEER

5. TELEPHONE: 402-293-3030

6. PROJECT LOCATION:

EAST SIDE OF INTERSECTION OF FORT CROOK RD AND ARBORETUM DR.

7. DESCRIPTION OF PROBLEM:

EROSION OF 1:1 SLOPE RESULTING IN A COMPROMISE OF THE ROADWAY EMBANKMENT.

8.PROPOSED SOLUTION:

EXTEND EMBANKMENT TO A MAINTAINABLE 3:1 SLOPE. EXTEND BOX CULVERT TO SUPPORT EMBANKMENT. IMPROVE CHANNEL

9. TOTAL ESTIMATED COST: $ 90,122

10. COST SHARE REQUESTED: $ 54,073

11. SIGNATURE/TITLE: Dave Petrocchi, City Engineer

FORM 17.17

CITY OF BELLEVUE
FORT CROOK ROAD & ARBORTEUM DR
EROSION CONTROL - EAST SIDE

3/14/2008

Bid Item Number	Item Description	Unit	Unit Price	Quantity	Item Cost
1	CLEARING & GRUBBING	LS	$10,000.00	1	$10,000
2	CONSTRUCT 4'X4' BOX CULVERT EXTENSION	FT	$350.00	66	$23,100
3	COMPACTED FILL	CUYD	$7.00	7156	$50,089
4	RIP RAP	TON	$20.00	80	$1,600
5	ROLLED EROSION CONTROL, TYPE II	SY	$2.00	2667	$5,333
	TOTAL CONSTRUCTION COST				$90,122.22

Fort Crook Rd Culvert Extension

City of Bellevue
Engineering Department
210 West Mission Ave.
Bellevue, NE 68005
(402) 293-3030
(402) 293-3028

1 inch equals 350 feet

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT
8901 S. 154th Street
Omaha, NE 68138-3621
402-444-6222
www.papionrd.org

URBAN DRAINAGEWAY PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: 3/12/08

2. PROJECT NAME Keystone Trail East Erosion Improvements

3. PROJECT SPONSOR: City of Omaha Parks, Recreation & Public Property Department

ADDRESS: 1819 Farnam Street Suite 701

Omaha, NE 68183

4. CONTACT PERSON: Paul Martin

TITLE: Park & Recreation Planner II

5. TELEPHONE: (402) 444-5943

6. PROJECT LOCATION: This project is located on a section of the proposed Keystone Trail-East project now under design. During preliminary engineering it was discovered a major erosion problem has developed in an area east of 60th Street, north of L street. It appears large amounts of water are draining on to the site from adjacent landowners on the south. (see map)

7. DESCRIPTION OF PROBLEM: Storm runoff has caused severe erosion problems to existing drainage swales on the City owned abandoned railroad property, where the trail is to be constructed. Washouts of over 10' high in depth have occurred within these swales, due to the large quantity of runoff water coming fron the south. The washout problems will beed to be dealt with prior to actual trail construction, since these erosion problems are encroaching onto the existing trail bed and damaging adjacent drainage swales.

8.PROPOSED SOLUTION: Open drainage channels (ditches) would be constructed on both sides of the proposed trail, picking up storm water draining from the south. This water would flow in a westerly direction in both channels, eventually entering into a large drain pipe located on the north. This pipe would drain downhill to the north approximately 190', into the City of Omaha owned Thell Environmental Area. All disturbed areas due to construction are to be re-established by seeding and installing erosion matting as necessary.

9. TOTAL ESTIMATED COST: $ 119,450.00

10. COST SHARE REQUESTED: $ 71,650.00

11. SIGNATURE/TITLE:

FORM 17.17

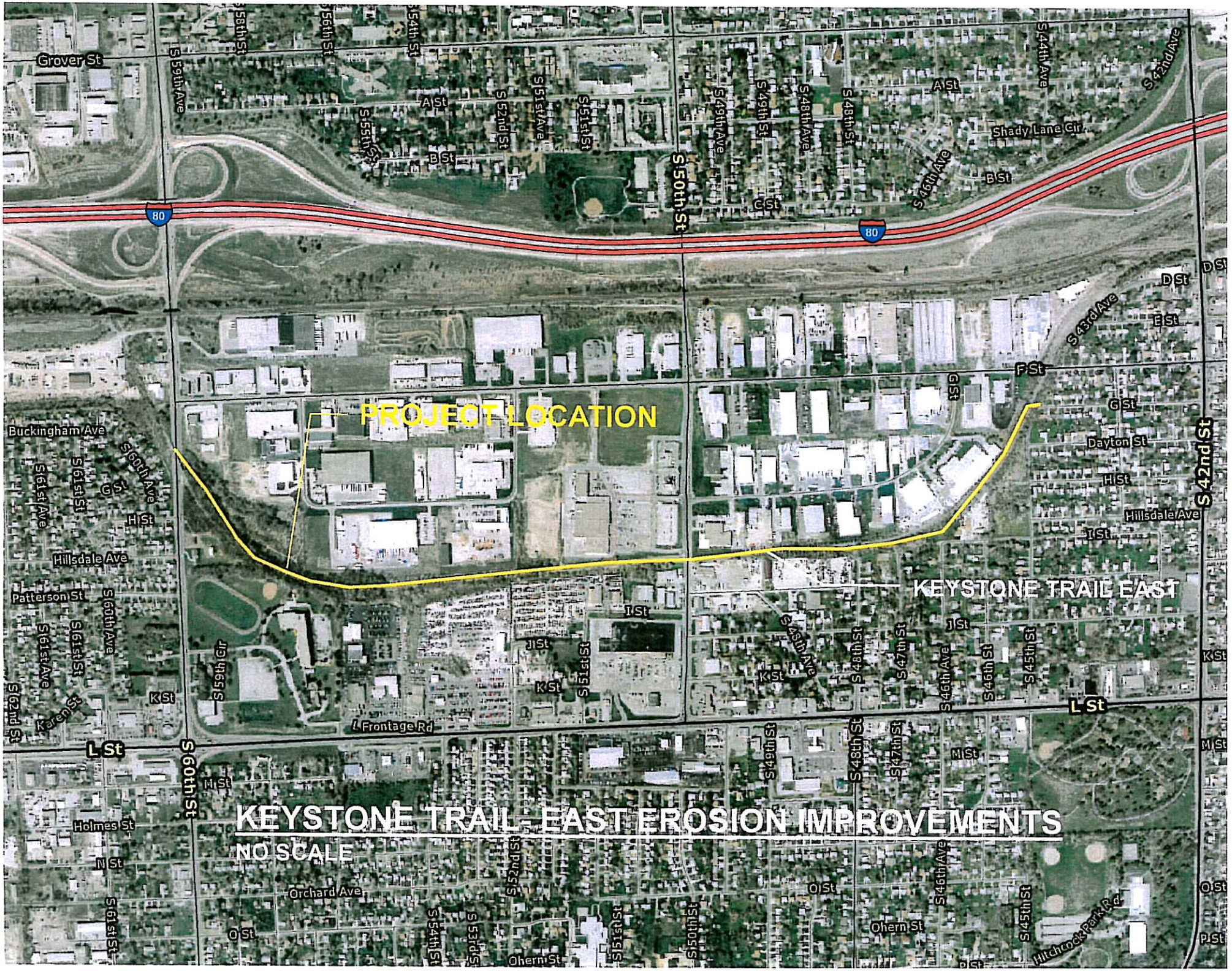
hgm
ASSOCIATES INC.

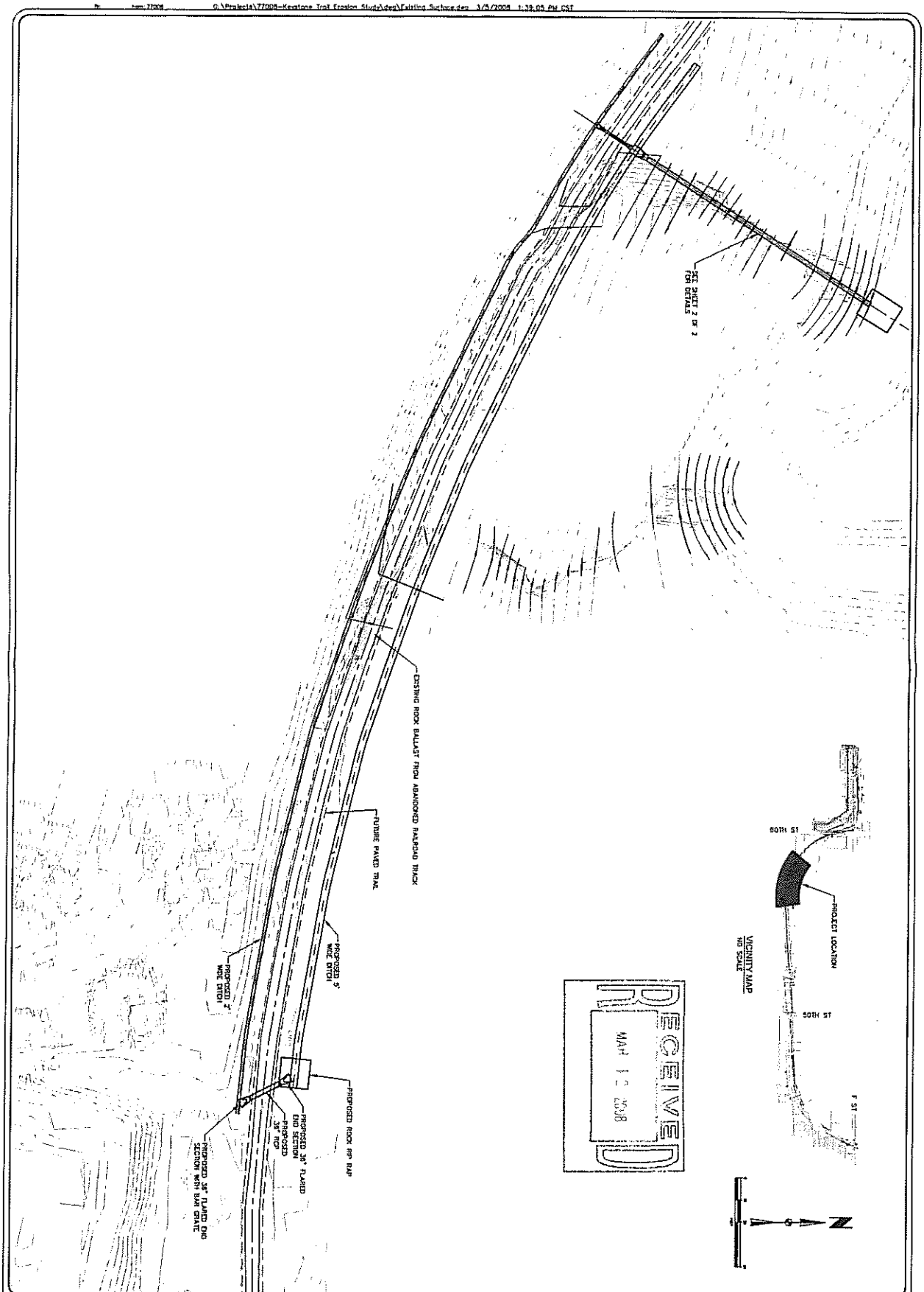
CITY OF OMAHA PARKS, RECREATION AND PUBLIC PROPERTY
KEYSTONE TRAIL EROSION CONTROL
HGM PROJECT NO. 77008

OPINION OF PROBABLE PROJECT COSTS
March 6, 2008

NO.	BID ITEM DESCRIPTION	APPROXIMATE QUANTITY	UNIT	UNIT COST	TOTAL COST
1	Mobilization	1	LS	$11,000.00	$11,000.00
2	Clearing and Grubbing	1	AC	$9,000.00	$9,000.00
3	Embankment	1700	CY	$20.00	$34,000.00
4	18 inch RCP Pipe	40	LF	$40.00	$1,600.00
5	36 inch RCP Pipe	48	LF	$85.00	$4,080.00
6	36 inch CMP Pipe	190	LF	$60.00	$11,400.00
7	18" Flared End Section	2	EA	$250.00	$500.00
8	36" Flared End Section	3	EA	$400.00	$1,200.00
9	Concrete Pipe Collar	1	EA	$650.00	$650.00
10	Rip Rap	120	TON	$25.00	$3,000.00
11	Construct Permanent Erosion Control Matting	4900	SY	$6.00	$29,400.00
12	Seeding	2	AC	$1,200.00	$2,400.00
13	Silt Fencing	100	LF	3.50	$350.00
				TOTAL	$108,580.00
				10% CONTINGENCY	$10,858.00
				PROJECT TOTAL	$119,438.00

5022 S. 114TH STREET, SUITE 200, OMAHA, NEBRASKA 68137 (402) 346-7559, FAX (402) 346-0224
640 FIFTH AVENUE, P.O. BOX 919, COUNCIL BLUFFS, IOWA 51502 (712) 323-0530, FAX (712) 323-0779


PROJECT LOCATION
KEYSTONE TRAIL EAST
KEYSTONE TRAIL - EAST EROSION IMPROVEMENTS
NO SCALE
Grover St
S 59th Ave
S 58th St
S 56th St
S 54th St
S 55th St
S 52nd St
S 51st Ave
S 51st St
S 50th St
S 49th Ave
S 49th St
S 48th Ave
S 48th St
S 46th Ave
S 44th Ave
S 42nd Ave
A St
B St
C St
D St
E St
F St
G St
H St
I St
J St
K St
L St
M St
N St
O St
P St
Shady Lane Cir
Buckingham Ave
S 60th Ave
S 61st Ave
S 61st St
Hillsdale Ave
Dayton St
S 42nd St
Patterson St
S 59th Cir
S 62nd St
Karen St
L Frontage Rd
S 43rd Ave
S 47th St
S 46th St
S 45th St
Holmes St
Orchard Ave
S 52nd St
S 54th St
S 53rd St
S 51st St
S 50th St
Ohern St
Hitchcock Park Rd
80



project KEYSTONE TRAIL EROSION IMPROVEMENTS
OMAHA, NE

client CITY OF OMAHA
PARKS, RECREATION AND PUBLIC PROPERTY

sheet OVERALL PLAN VIEW

project no. 77008

sheet 1 OF 2

PLG drawn		
WJG designed		
WJG approved		
MAR '08 date	revision	date

hgm ASSOCIATES INC
ENGINEERING ARCHITECTURE SURVEYING
council bluffs omaha

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT
8901 S. 154th Street
Omaha, NE 68138-3621
402-444-6222
www.paplonrd.org

URBAN DRAINAGEWAY PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: March 12, 2008

2. PROJECT NAME COLE CREEK STABILIZATION & STORMWATER BEST MANAGEMENT PRACTICES

3. PROJECT SPONSOR: City of Omaha

ADDRESS: 5600 S. 10th Street
1819 Farnam Street
Omaha, NE 68107

RECEIVED
MAR 12 2008

4. CONTACT PERSON: Nina Cudahy

TITLE: Environmental Quality Control Manager

5. TELEPHONE: 402-444-3915 -209

6. PROJECT LOCATION:

The project involves stabilization and protection of Cole Creek from Sorensen Parkway south to Hartman Avenue, parallel to South 66th Street in the City of Omaha, Douglas County, Nebraska. The project involves private property owned by the Catholic Archdiocese of Omaha (Roncalli High School), and parkland owned by the City of Omaha (Orchard Park).

7. DESCRIPTION OF PROBLEM:

A natural resources inventory (NRI) and stream condition assessment was completed on Cole Creek between Sorenson Parkway and Hartman Avenue in October 2007. Evaluation of the stream condition and natural resources associated with Cole Creek at this location identified the following issues:

1. Incision of stream banks is occurring and threatening property damage at both Roncalli High School and in Orchard Park. Eroded banks were prevalent along portions of the stream near the Roncalli High School football field extending south into the Orchard Park area, including several locations within Orchard Park as shown on the image provided on the following page.

2. The section of Cole Creek adjacent to the Roncalli High School track exists within a narrow area between the high school facilities and private homes. This section includes steep banks that are beginning to slump into the creek; deep, eroded bank cuts; and dense, thick vegetation. The south portion of this section includes a highly eroded, deep cut with an exposed sewer outfall. An exposed, active sewer line crosses Cole Creek at this point.

Locations of Stream Bank Erosion/Degradation

3. The section of Cole Creek near the Orchard Park tennis courts is experiencing significant erosion on the upper bank that is progressing to the lower bank. Repairs of past bank erosion created banks that were too steep to remain stable.

4. Stormsewer outfalls at four locations in the stream have contributed to excess runoff volume entering the stream creating eroded and unstable banks, and eroding the stream bed as much as two- to three feet.

5. Stormwater runoff from the Roncalli High School parking lot and the Orchard Park parking lot creates excessive surface flow that is eroding park areas, creating deep ponding in nearby areas, and is damaging parking surfaces. This stormwater results in additive high stormwater flows in Cole Creek.

6. Eroded banks are present at the south portion of the stream in the Orchard Park. The banks remain susceptible to continue erosion and damage to adjacent ball fields.

In summary, the results of the NRI for Cole Creek between Sorensen Parkway and Hartman Avenue show a stream in various stages of degradation. Moderate to severe erosion is present at several locations that have resulted in degradation of the stream bed, significantly-incised banks and bank cuts. Vegetation along the stream is largely non-native and does not support a healthy and stable stream.

8.PROPOSED SOLUTION:

A conceptual design has been developed for the stream stabilization project, including construction of stormwater best management practices to control runoff into the stream. The design and construction of stream stabilization methods coupled with stormwater best management practices (BMPs) will provide multiple benefits for Cole Creek between Sorensen Parkway and Hartmann Avenue, as well as for the stream in whole. Projected benefits of the design and implementation of stormwater BMPs and stream stabilization include:

- Stabilization of stream banks along Cole Creek in the subject area will mitigate damaging erosion, provide stabilized stream buffers, increase storage capacity, and reduce/disperse stream flow velocity.

- Reconstruction of stream meanders will improve stream geometry and stabilized flow, increase stream length and therefore time of flow concentration, and enhance two-stage stream geometry.

- Construction of grade controls will provide increased control of stream flow velocity while also creating pools and riffles in the riparian system. Pools and riffles will improve water quality as well as aquatic habitat.

- Stream buffers will be widened, with removal of invasive or non-native and non-desirable vegetation. The riparian canopy will be opened, improving the sustainability of low-growing vegetation and therefore stabilizing soils along the stream bank. Native trees will be re-planted in the buffers, re-creating a more native riparian condition.

- Restoration of the stream buffers will result in improved wildlife habitat, increase accessibility to the stream by park patrons, and support stream bank stability.

- Implementation of stormwater BMPs, including rain gardens, vegetated swales, wet meadows, and bioretention cells will reduce stormwater discharge volume to Cole Creek during storm events while also filtering pollutants from stormwater.

- Stormwater BMPs along Cole Creek will provide examples of effective strategies for private and public landowners in controlling stormwater runoff to reduce damaging water flows and flood potential.

- Stormwater BMPs will restore and improve small amounts of native vegetation and micro-habitats that result in increased biodiversity.

Key elements of the conceptual design include (from north to south):

North Channel Section

1. An overflow channel that will channel stream overflow out of the primary stream bed, reducing water volume and velocity in this northern portion of the stream.

2. Stormwater BMPs north of the Roncalli High School baseball field that will intercept and temporarily store stormwater runoff from the Roncalli parking lot. Preliminary concepts for these BMPs include an extended rain garden and a wet meadow closer to the stream.

3. A series of three grade controls in the stream section behind the Roncalli High School football field and track. Grade controls help to control stream flow by reducing "flattening" the vertical drop of the stream in this section, and channeling stream flow toward the middle of the stream bed. Where possible, the stream will be allowed to retain natural meanders in this stream segment.

Middle Channel Section

4. Establish a flood bank on the west side of the stream from the south end of the track at Roncalli High School, extending south approximately 350 feet. The stream channel will also be redirected with additional meander to increase stream length and flatten stream slope. The flood bank will be approximately 1- to 2- feet above the stream channel, providing additional conveyance capacity for high flows, lowering the stream elevation, and slowing flow velocity.

5. Retain the existing channel from the flood bank described above to a point immediately north of the tennis courts in Orchard. The stream will be re-channeled with a meander that extends east into the park field, and ending south of the tennis courts. A flood bank will be established on the interior bank of the meander. Banks will be graded back to a minimum of 3:1 slopes, with some slopes graded to 4:1 slopes, and stabilized with native vegetation.

6. The upper stream bank adjacent to the tennis courts is prone to erosion from runoff from the playing surface. A stormwater BMP, conceptually a vegetated swale, will be constructed to intercept stormwater runoff and divert it through the swale to the north and south ends of the courts where it can infiltrate into the soil. The vegetated swale will be populated with native plants.

South Channel Section

1. The existing stream channel will be maintained to Hartman Avenue. Stream banks will be graded back and a flood shelf will be constructed on the east bank of the stream south of the path crossing, near the basketball courts.

2. A vegetated swale will be constructed at the base of the hill on the east border of Orchard Park adjacent to the cemetery to the east. This swale will intercept runoff from the steep slope, and direct across the park fields through a vegetated swale to discharge into the stream. The purpose of the swale is to intercept water, slow it's velocity, allow infiltration into the soil while conveying excess flow slowly to the stream. The swale is intended to be planted to native flowers and grasses that require little maintenance.

3. A bioretention cell/garden will be constructed adjacent to the Orchard Park parking lot to intercept stormwater runoff and maximize infiltration into the soil. The bioretention cell/rain garden will be sized to collect runoff from the equivalent of a 2-year rain storm. The bioretention portion of this BMPs is designed to provide rapid infiltration and drain excess rainfall through a subsurface drain pipe that will discharge to the stream. Because the bioretention cell garden intercepts the stormwater runoff, it helps to reduce the volume of water discharging to the stream.

4. Rain gardens at stormwater inlets on North 66th Street. Two rain gardens will be designed and constructed at stormwater inlets adjacent to Orchard Park on North 66th Street. The purpose of these rain gardens is to intercept stormwater from both the park and from the street to filter it before entering the stormsewer. The objectives of the rain gardens is to improve water quality of smaller (one- to two-year) storms.

9. TOTAL ESTIMATED COST: $ 1,418,500

10. COST SHARE REQUESTED: $ 851,800

11. SIGNATURE/TITLE: Nina Cudahy, City of Omaha, Env. Quality Control Manager

FORM 17.17

COLE CREEK URBAN GREEN STREAM PLAN

IMPLEMENTATION SCHEDULE, INCLUDING ESTIMATED COSTS FOR COMPONENT PARTS

DATE	TIME	LOCATION	ACTIVITY	DESCRIPTION	ESTIMATED COST
19-Mar-08	7:30am	Chamber of Commerce	Meeting	OBD Presentation on Cole Creek	N/A
25-Mar-08	4:00pm	Roncalli	Meeting	Roncalli School Board Meeting	N/A
31-Mar-08	4:00pm	Roncalli	Meeting	Roncalli Building Commission Meeting	N/A
March 2008		Cole Creek	Field Survey	Topographic survey	$ 15,000
April 2008			Agreement	Agreement between Roncalli and City of Omaha granting easement/rights of access and signs off on the Cole Creek Urban Green Stream Plan	N/A
April 2008		Cole Creek	Field Survey	Geotechnical Investigation	$ 12,000
May 2008		Cole Creek	Field Survey	Wetland/Waterway Delineation	$ 3,500
May 2008		Cole Creek	Field Survey	Geomorphology Study	$ 15,800
April – May 2008		Orchard Park	Design and prepare bid documents	Parking Lot BMPs, inlet rain gardens, and bio-swales in Orchard Park	$ 71,082
May-September 2008		Roncalli	Design and prepare bid documents	BMPs at north end of creek on Roncalli property including a design charette with Roncalli Science teachers, students, and interested parents.	
May 2008			Award bid/begin construction	Construction bid for BMPs in Orchard Park and along 66th Street	$120,381
End of May 2008			Permit submittal	404/401 permit application due	$ 3,600
July 2008			Funds	NRD funds available	N/A
June-September 2008			Design	Stream channel improvements	$ 64,600

September 2008			Permit submittal	Application for FEMA Conditional Letter of Map Revision (CLOMR)	$ 9,500
September 2008			Award bid/begin construction	BMPs at north end of creek on Roncalli property	$ 98,737
Spring 2009				401/404 permit issued	N/A
Spring 2009				CLOMR issued	N/A
Spring 2009			Prepare bid documents/ construction administration	Stream channel improvements	$ 49,300
Summer 2009			Award bid/begin construction	Stream channel improvements	$955,000
Total Estimated Project Cost					**$1,418,500**

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT
8901 S. 154th Street
Omaha, NE 68138-3621
402-444-6222
www.papionrd.org

URBAN DRAINAGEWAY PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. DATE: 3/13/08

2. PROJECT NAME: Cambridge Oaks Channel Restoration

3. PROJECT SPONSOR: City of Omaha

ADDRESS: 1819 Farnam Street

Omaha, NE 68183

4. CONTACT PERSON: Kirk R. Pfeffer

TITLE: Design Engineer

5. TELEPHONE: 402-444-4911

6. PROJECT LOCATION: The project is located on a unnamed tributary of the West Branch of the Papillion Creek located in the SW ¼ of Section 22, Township 15N, Range 11E. The project will more specifically be located behind the property at 535 South 166th Street, Omaha, NE.

7. DESCRIPTION OF PROBLEM: The tributary has started to meander, in part due to a tree that has fallen into the channel. Wet weather flows have caused the bank behind the property located at 535 South 166th Street to erode. The erosion has resulted in massive destabilization and slumping of the bank, removing riparian vegetation, disturbing soil conditions, and creating potential water quality impairment issues with storm events. Over the years, the lip of the channel has moved toward the property and at present is at the property line. Continued erosion without a project to correct the problem will most likely encroach into the property this year.

8.PROPOSED SOLUTION: The [proposed] solution for re-stabilizing the eroded right bank of the West Papio Creek tributary at South 166th Street is an ecologically as well as hydrologically sound approach that will rebuild riparian habitat and form. The [proposed] solution will restore a more stable bank slope and rejoin it to the upstream and downstream banks to establish a continuous riparian buffer. The bank will be stabilized with toe armoring at the stream level, with a minor flood (second stage) bench approximately 12 to 18 inches above the normal water level. Stabilization of the bank will be achieved by establishing native vegetation, including native grasses, forbs, and trees on the restored bank, with mid-grade armoring if and where necessary to reduce the severity of slope. The resulting stabilized bank will restore riparian habitat and provide a protective border to this unnamed tributary of West Papio Creek while also protecting property and safe conditions.

9. TOTAL ESTIMATED COST: $ 118,000

10. COST SHARE REQUESTED: $ 70,800

11. SIGNATURE/TITLE: Kirk R Pfeffer

FORM 17.17

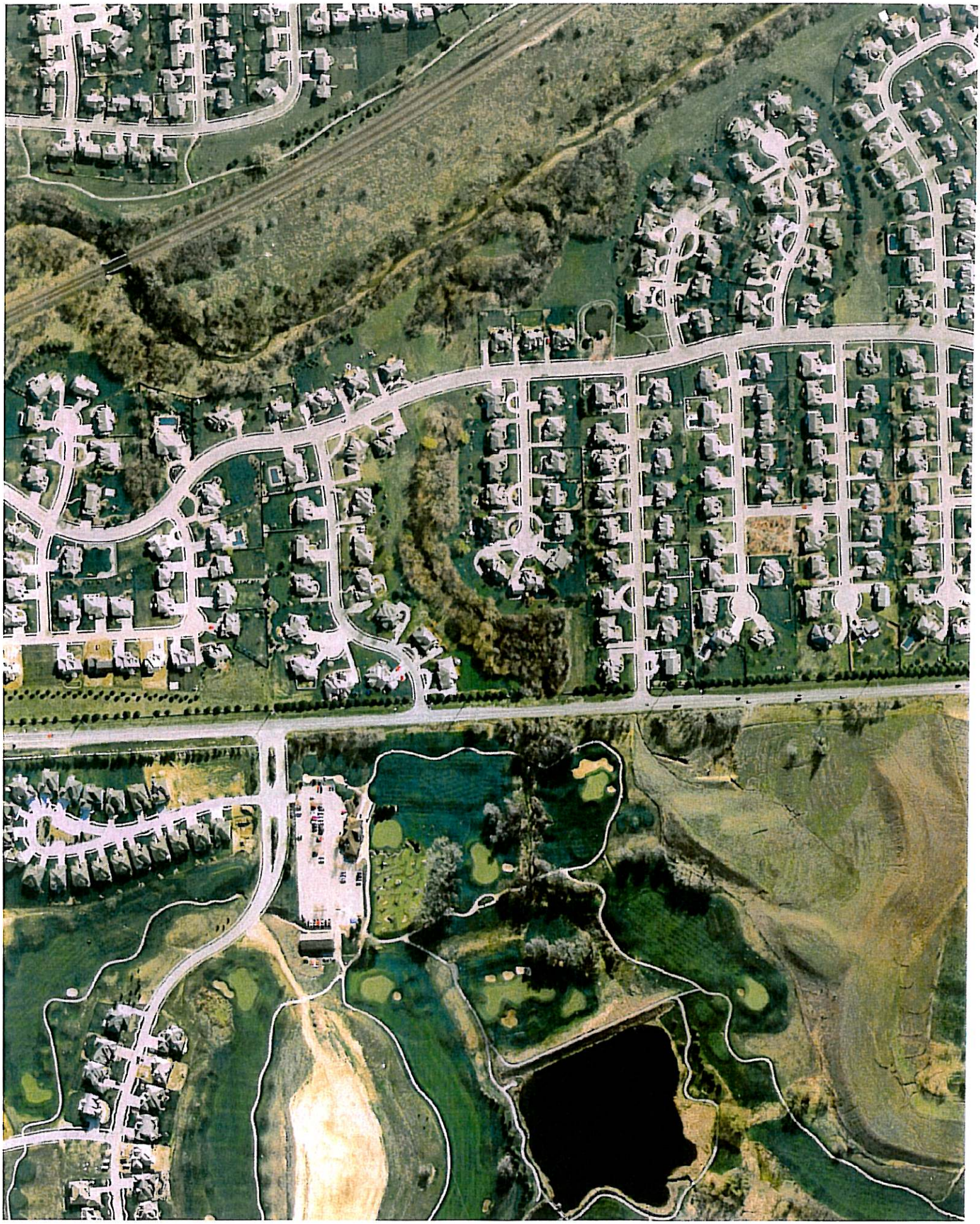
Preliminary Opinion of Probable Cost
West Papio Creek Tributary Bank Stabilization
West Omaha, Nebraska

This preliminary opinion of probable cost for the stabilization of the west bank of a tributary stream to West Papio Creek near South 166th Street is provided for the City of Omaha as an early estimate for budget development and funding application. The preliminary plan or stabilization includes approximately 110 feet of the right bank of the stream that has been severely eroded and will likely include the following stabilization measures:

1. Removal of debris in the stream that has caused diversions in the flow that created the severe erosion of the bank.
2. Armoring the toe of the stream to stabilize the low bank of the stream from erosion.
3. Creation of a small flood shelf along the eroded area that will include secondary armoring on the higher bank. This higher armoring will provide stabilization for the steep bank grade.
4. Restoration of the right bank. The eroded area has resulted in an unstable, very steep slope. Regrading and shaping of the bank will be necessary. This is particularly difficult with the depth of the stream channel, which is approximately 25 feet and limited space within which to work.
5. Revegetation of the stabilized bank with native plants.

In addition to stabilizing the banks, or future protection and stabilization of the stream, the preliminary plan includes the construction of up to four grade controls both upstream and downstream from the eroded bank.

The preliminary opinion of probable cost for stabilization of the stream bank is $85,800. A preliminary estimate for the four grade controls is $32,000. A total cost of approximately $117,800 is estimated for this project. This preliminary opinion of probable cost is for construction services only, and does not include engineering design services. Final design or this bank stabilization will provide a more accurate cost estimate of construction, which may be higher or lower than this preliminary estimate.



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 in their jurisdiction. Construction costs only are eligible. The Policy Manual calls for Management approval of all applications. Management intends to approve the following applications.

- The City of Papillion has requested financial assistance to extend and reorient a box culvert upstream of Washington Street (84th Street) near Matthies Drive. The total estimated cost of the project is $45,700, of which $37,500 is eligible. They are requesting 60% of this amount, or **$22,440**.

- The City of South Sioux City has requested financial assistance to install a rain garden for water quality purposes in Klasey Park to handle stormwater runoff in the immediate area. The total estimated cost of the project is $59,680. They are requesting 60% of this amount, or **25,000**, the maximum allowed under this program.

The applications are summarized in the following table. The FY 2008 Budget for this item was $49,000.

Sponsor	Total Estimated Cost	Cost Share Requested
City of Papillion	$37,400	$22,440
City of South Sioux City	$59,680	$25,000
Grand Total	**$97,080**	**$47,440**

- **It is recommended that the Subcommittee recommend to the Board that the applications from the City of Papillion for $22,440, and City of South Sioux City for $25,000, for a total of $47,440 be approved, subject to funding in the FY 2009 budget.**

URBAN CONSERVATION ASSISTANCE PROGRAM

SPECIAL PROJECT REQUEST APPLICATION

1. Date: March 7, 2008

2. Project Name: 84th Street Box Extension

3. Project Sponsor: City of Papillion

   Address: 122 East Third Street

   City/State/Zip Papillion, Nebraska 68046

4. Contact Person: Marty Leming Title: Public Works Director

5. Telephone: (402) 597-2044

6. Project Location: Approximately 150 feet south of intersection

   84th Street (Washington Street)

7. Description of Problem: * Channel erosion due to direction of channel

   entering box culvert

8. Proposed Solution: * Extend box culvert 40' to align with channel

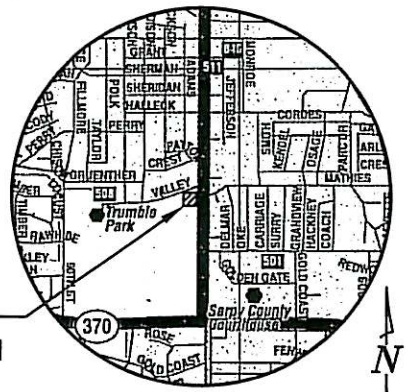
9. Total Estimated Cost: $ ~~45,700~~ 37,400 GB

10. Cost Share Request: $ ~~25,000~~ 22,440 GB

Unamed Channel South of Valley Road and 84th Street (Washington Street) TDD 181-513

City of Papillion, Nebraska 3/6/2008

Item	Description	Approx. Quantity	Unit		Unit Price		Amount
1	Clearing and Grubbing	1	JOB	$	3,000.00	$	3,000.00
2	Site Preparation and Grading	1	JOB	$	4,500.00	$	4,500.00
3	Box Culvert Extension 8' High x 10' Wide	40	L.F.	$	650.00	$	26,000.00
4	Seed, Fertilize and Mulch	0.25	AC	$	2,000.00	$	500.00
	Total Estimated Construction					$	34,000.00
	Estimated Engineering & Surveying					$	~~8,300.00~~
	Contingency 10%					$	3,400.00
	Estimated Total Project					$	~~45,700.00~~ 37,400 GB



VICINITY MAP

N

0' 50' 100' 200'

SCALE IN FEET

BOX EXTENSION

THE CITY OF PAPILLION

EXHIBIT A

THOMPSON, DREESSEN & DORNER, INC.
Consulting Engineers & Land Surveyors
10836 OLD MILL ROAD OMAHA, NEBRASKA 68154
PHONE 402.330.8860 FAX 402.330.5866 EMAIL TDD@TDD1.COM
WEBSITE WWW.TDD1.COM

181-513

SHEET 1 OF 1

PAPIO-MISSOURI RIVER
NATURAL
RESOURCES
DISTRICT
8901 S. 154th ST.
OMAHA, NE 68138-3621
(402) 444-6222
FAX (402) 895-6543

Form 17.0.B

URBAN CONSERVATION ASSISTANCE PROGRAM

SPECIAL PROJECT REQUEST

1. DATE: March 12, 2008

2. PROJECT NAME: Klasey Park Rain Garden

3. PROJECT SPONSOR: City of South Sioux City

(ADDRESS) 1615 1st Avenue

South Sioux City, NE 68776

4. CONTACT PERSON: Paul Nolan TITLE: Public Works Director

5. TELEPHONE: 402-494-7534

6. PROJECT LOCATION **: Klasey Park

7. DESCRIPTION OF PROBLEM **: Storm Sewer Pipe is undersized along 1st Avenue, which causes flooding at intersections from US 77 to West 26th Street (17blocks)

8. PROPOSED IMPROVEMENTS**: Construct a rain garden in Klasey Park to relieve excess storm water from the undersized storm sewer pipe. It is a better alternative than replacing the pipe.

9. TOTAL ESTIMATED COST: $59,680

10. COST SHARE REQUEST: $25,000

11. SIGNATURE/TITLE: Mayor

** Attach additional sheets as necessary.

Kinsey Park

HIGHWAY 77
FIELD A
FIELD B
Rain Garden Area
12" Hanover to Existing Manhole
1ST AVENUE
16TH STREET

MAPQUEST

A: W 11th St & 1st Ave, South Sioux City, NE 68776