

**BOARD OF COUNTY COMMISSIONERS  
SARPY COUNTY, NEBRASKA**

**RESOLUTION AUTHORIZING THE CHAIRMAN TO SIGN THE PAPIO-MISSOURI RIVER NATURAL  
RESOURCES DISTRICT (NRD) STORMWATER BEST MANAGEMENT PRACTICES PROGRAM GRANT  
AGREEMENT**

WHEREAS, pursuant to Neb. Rev. Stat. §23-104(6) (Reissue 2007), the County has the power to do all acts in relation to the concerns of the County necessary to the exercise of its corporate powers; and,

WHEREAS, pursuant to Neb. Rev. Stat. §23-103 (Reissue 2007), the powers of the County as a body are exercised by the County Board; and,

WHEREAS, a Papio-Missouri NRD Grant was available to Sarpy County; and,

WHEREAS, Sarpy County was awarded funding to construct a rain garden on the corner of Golden Gate Drive and Gold Coast Road; and,

WHEREAS, the grantor requires the signature of the Chairman; and,

WHEREAS, Sarpy County is committed to and supports the project to construct a rain garden with funding from the Papio-Missouri NRD; and;

NOW, THEREFORE, BE IT RESOLVED, By the Sarpy County Board of Commissioners that the Chairman is hereby authorized to sign the agreement with the Papio-Missouri NRD for the rain garden project.

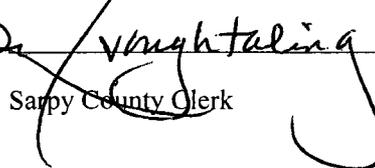
The above Resolution was approved by a vote of the Sarpy County Board of Commissioners at a public meeting duly held in accordance with applicable law on the 5<sup>th</sup> day of June, 2012.

  
\_\_\_\_\_

Sarpy County Board Chairman



ATTEST:

  
\_\_\_\_\_

Sarpy County Clerk

# Sarpy County Board of Commissioners

1210 GOLDEN GATE DRIVE  
PAPILLION, NE 68046-2895  
593-4155

[www.sarpy.com](http://www.sarpy.com)

ADMINISTRATOR Mark Wayne

DEPUTY ADMINISTRATOR Scott Bovick

FISCAL ADMIN./PURCHASING AGT. Brian Hanson



## COMMISSIONERS

Rusty Hike District 1  
Jim Thompson District 2  
Tom Richards District 3  
Jim Nekuda District 4  
Jim Warren District 5

## MEMO

TO: Sarpy County Board of Commissioners

FROM: Lisa A. Haire

RE: Papio-Missouri River Natural Resources District Stormwater Grant

On June 5, 2012 the County Board will be asked to authorize the Chairman to sign the Papio-Missouri River Natural Resources District (NRD) Stormwater Best Management Practices Program grant agreement.

The agreement awards Sarpy County up to \$10,000 in funding from the Papio-Missouri NRD for a rain garden to be located on the northeast corner of the Courthouse overflow parking lot (corner of Golden Gate Drive and Gold Coast Road).

The grant requires a \$10,000 match which will be met with funds from Sarpy County's Annual Stormwater Management Program (SWMP) Grant awarded to Sarpy County from the Nebraska Department of Environmental Quality (NDEQ).

Please contact myself or Scott Bovick with any questions.

June 1, 2012

Lisa A. Haire  
402-593-1565

cc: Mark Wayne  
Brian Hanson  
Scott Bovick  
Ross Richards  
Bruce Fountain  
Deb Houghtaling

May 11, 2012



Lisa A. Haire  
Sarpy County Grant Coordinator  
Sarpy County  
1210 Golden Gate Drive  
Papillion, Nebraska 68046

RE: Stormwater Best Management Practices Program Grant Application

Dear Ms. Haire:

On April 12, 2012, the Papio-Missouri River NRD Board of Directors approved Sarpy County's request for assistance to install a rain garden at the Sarpy County Courthouse in Papillion contingent upon funds being included in the NRD's FY 2013 budget. The NRD's Draft FY 2013 Budget includes **\$10,000.00** for this project.

**The deadline for completing the project and requesting reimbursement is June 1, 2013. If Sarpy County cannot meet this deadline, the District must be notified before the District budget is adopted. If funds are included in the District's FY 2013 Budget and not spent by the deadline, Sarpy County must re-apply for funding. The funds will not carry over into succeeding fiscal years.**

In addition, current guidelines require Sarpy County to execute the attached Special Operation and Maintenance Agreement as a condition of the funding. The agreement also requires Sarpy County to provide public recognition of the District's contribution to the project. Please refer to Paragraph 4 in the agreement. A sign will be provided by the District to be installed at the project site. Please obtain the appropriate signatures and return one copy to this office.

The District must review and approve plans, specifications, and implementation schedules for the construction of this project. Reimbursement will be made upon the completion of this project and will require the submittal of a Certificate of Completion signed by a licensed, professional engineer and copies of final pay estimates which show total units, unit costs, and total component costs.

If you have any questions or concerns, please contact me at (402) 444-6222 or at [llaster@papionrd.org](mailto:llaster@papionrd.org).

Sincerely,

Lori Ann Laster, CFM  
Stormwater Management Engineer

Cc: Marlin Petermann, Amanda Grint, P-MRNRD

Project: 553

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT  
STORMWATER BEST MANAGEMENT PRACTICES PROGRAM

Special Operation and Maintenance Agreement

This agreement is made between the **Papio-Missouri River Natural Resources District** (hereinafter "the District"), acting under authority of Section 2-3235 R.R.S., 1943, and **Sarpy County** (hereinafter "the Sponsor") which sponsor intends to carry out the following described project: **Installation of a Rain Garden** (hereinafter "the Project") located in **Sarpy County, Nebraska**.

It is agreed that, if the District furnished financial aid to the Sponsor for the Project, in consideration thereof:

1. The Sponsor warrants that it now has, or can obtain, the resources, ability, and authority, and will obtain the additional funds, permits, services, materials, and land rights necessary to complete the Project, without additional cost to the District.
2. The Sponsor shall operate, maintain, and repair the Project after completion in accordance with accepted engineering standards and practices, without additional cost to the District.
3. The Sponsor shall indemnify and hold the District harmless from and against all liability and damages resulting from the design, construction, operation, or maintenance of the Project, and against all demands, causes of action, and claims arising therefrom, except as may be caused by negligence of the District, its agents, representatives, or employees.
4. The Sponsor shall publicly acknowledge the District's contribution to the Project on a permanent sign, plaque or other fixture (containing the District's logo), to be maintained by the Sponsor for the life of the project specified above. Such acknowledgement shall also be contained on all temporary construction signs and in all media publicity about the Project.
5. The effective date of this agreement shall be **May 11, 2012**.

SPONSOR: **Sarpy County**

**PAPIO-MISSOURI RIVER NRD**

By: \_\_\_\_\_

*[Signature]*

By: \_\_\_\_\_

*[Signature]*

Attest: \_\_\_\_\_

*[Signature]*  
SARPY COUNTY CLERK  
6-5-2012

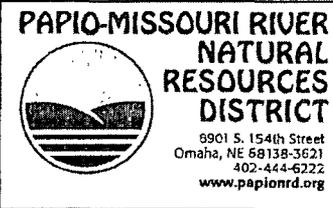
Attest: \_\_\_\_\_

*[Signature]*

Date: \_\_\_\_\_

5/12/2012





**17.41 STORMWATER BEST MANAGEMENT PRACTICES PROGRAM**

**SPECIAL PROJECT REQUEST APPLICATION**

1. DATE: March 13, 2012
2. PROJECT NAME Sarpy County Rain Garden Project
3. PROJECT SPONSOR: Sarpy County
- ADDRESS: 1210 Golden Gate Drive  
Papillion, NE 68046
4. CONTACT PERSON: Lisa A. Haire
- TITLE: Sarpy County Grant Coordinator
5. EMAIL AND PHONE: 402-593-1565 lhaire@sarpy.com

**6. PROJECT LOCATION:**

The Sarpy County Rain Garden Project will be located on the corner of Golden Gate Drive and East Gold Coast Road in Papillion, Nebraska on Sarpy County property. The project will be situated on the northeast corner of the Sarpy County Courthouse and the Administration overflow parking lot (attachment 1, proposed Rain Garden #1). This particular area accumulates stormwater and stormwater runoff from impervious surfaces following rainfall events and drains through a nearby outlet into the Municipal Separate Storm Sewer System (MS4).

**7. DESCRIPTION OF STORMWATER BEST MANAGEMENT PRACTICE AND HOW IT WILL BE INCORPORATED IN THE PROJECT:**

Sarpy County will incorporate Low Impact Development (LID) water quality measures through the implementation of a rain garden located on the corner of Golden Gate Drive and East Gold Coast Road in Papillion, Nebraska.

Rain gardens are an example of a low impact development (LID) approach to storm water management. The LID approach retains and infiltrates rainfall on-site, emphasizing site designing and planning techniques that mimic the natural infiltration-based, groundwater-driven hydrology of our historic landscape ([www.papionrd.org/downloads/howtohelp/NRD\\_RainGardens\\_NRCS.pdf](http://www.papionrd.org/downloads/howtohelp/NRD_RainGardens_NRCS.pdf)).

Traditionally, pollutants accumulate on paved surfaces and are washed into the MS4 at concentrated levels during a rainfall event. The primary purpose of a rain garden is to store the first few inches of rain helping water infiltrate into the ground and limiting runoff pollutants which normally run through an outlet, draining into the MS4 and continuing downstream into creeks, ponds, lakes, and rivers. Rain gardens help to reduce this pollution by holding and

filtering the water. Loose, absorbent soil collects the rainwater running off streets and parking lots. Native plants help absorb water, sand and soil filter out pollutants helping to naturally manage stormwater runoff.

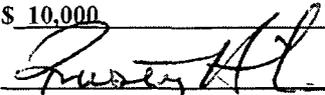
According to the National Pollutant Discharge Elimination System's (NPDES) menu of Best Management Practices (BMP's), "bio-retention (rain gardens) can be used in parking areas to collect and treat stormwater" ([www.epa.gov/npdes/stormwater/menuofbmps/index](http://www.epa.gov/npdes/stormwater/menuofbmps/index)). The Environmental Protection Agency (EPA) lists rain gardens as a Low Impact Development (LID) BMP strategy because "they restore the natural, pre-developed ability of an urban site to absorb stormwater, mimicking the natural hydrology of the area by capturing and managing storm water on-site" ([www.epa.gov/npdes/stormwater/menuofbmps/index](http://www.epa.gov/npdes/stormwater/menuofbmps/index)). Additionally, rain gardens recharge groundwater, keep rainwater on the property, remove standing water naturally, reduce mosquito breeding, and beautify the landscape.

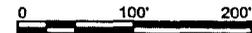
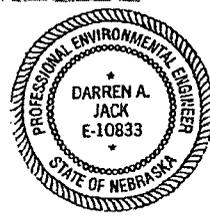
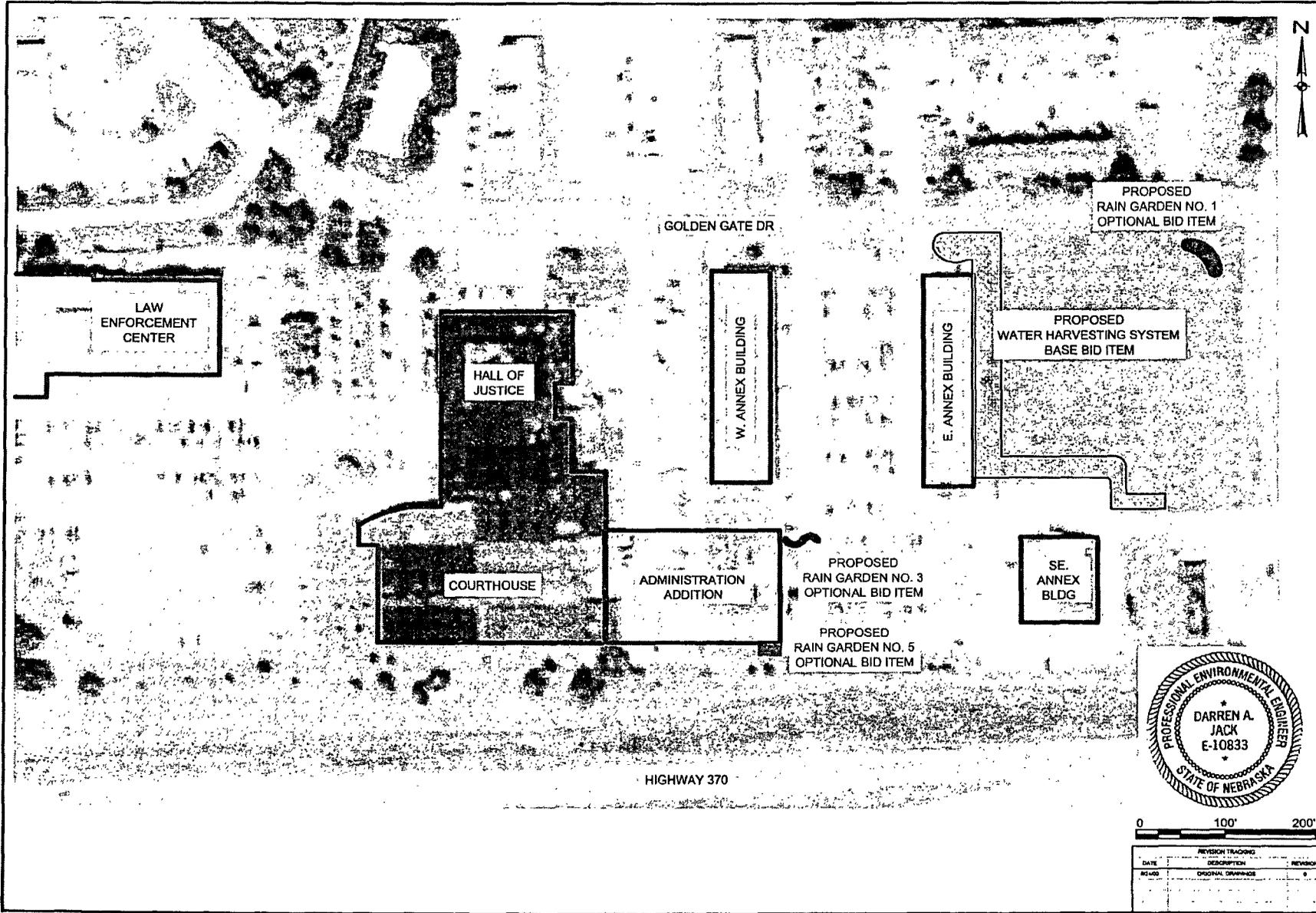
Sarpy County will work with a contractor to construct a rain garden on the northeast corner of the County Courthouse and Administration overflow parking lot. This area accumulates and holds stormwater runoff following rainfall events eventually draining into the MS4 through a nearby outlet (attachments 2-5). Constructing a rain garden in this area will assist in capturing the rainfall and runoff from nearby impervious surfaces limiting pollutants from draining into the MS4.

The Sarpy County rain garden will be landscaped with perennial flowers and native vegetation which will absorb rainfall, filtering pollutants that currently run across the parking lot. The rain garden will be a natural way to capture, filter, and hold rainfall on site helping protect fragile water resources downstream (attachments 6 and 7).

9. TOTAL ESTIMATED COST: \$ 20,000 (see attachment 8 for cost breakdown and 9 for schedule)

10. COST SHARE REQUESTED: \$ 10,000

11. SIGNATURE/TITLE: 



REVISION TRACKING		
DATE	DESCRIPTION	REVISION

SARPY COUNTY  
 STORM WATER BEST MANAGEMENT PRACTICES  
 SARPY COUNTY, NEBRASKA  
 PROPOSED SITE PLAN

PROJECT NUMBER: 14-007  
 DESIGNED: JAP  
 DRAWING: DAL  
 CHECKED: BCK

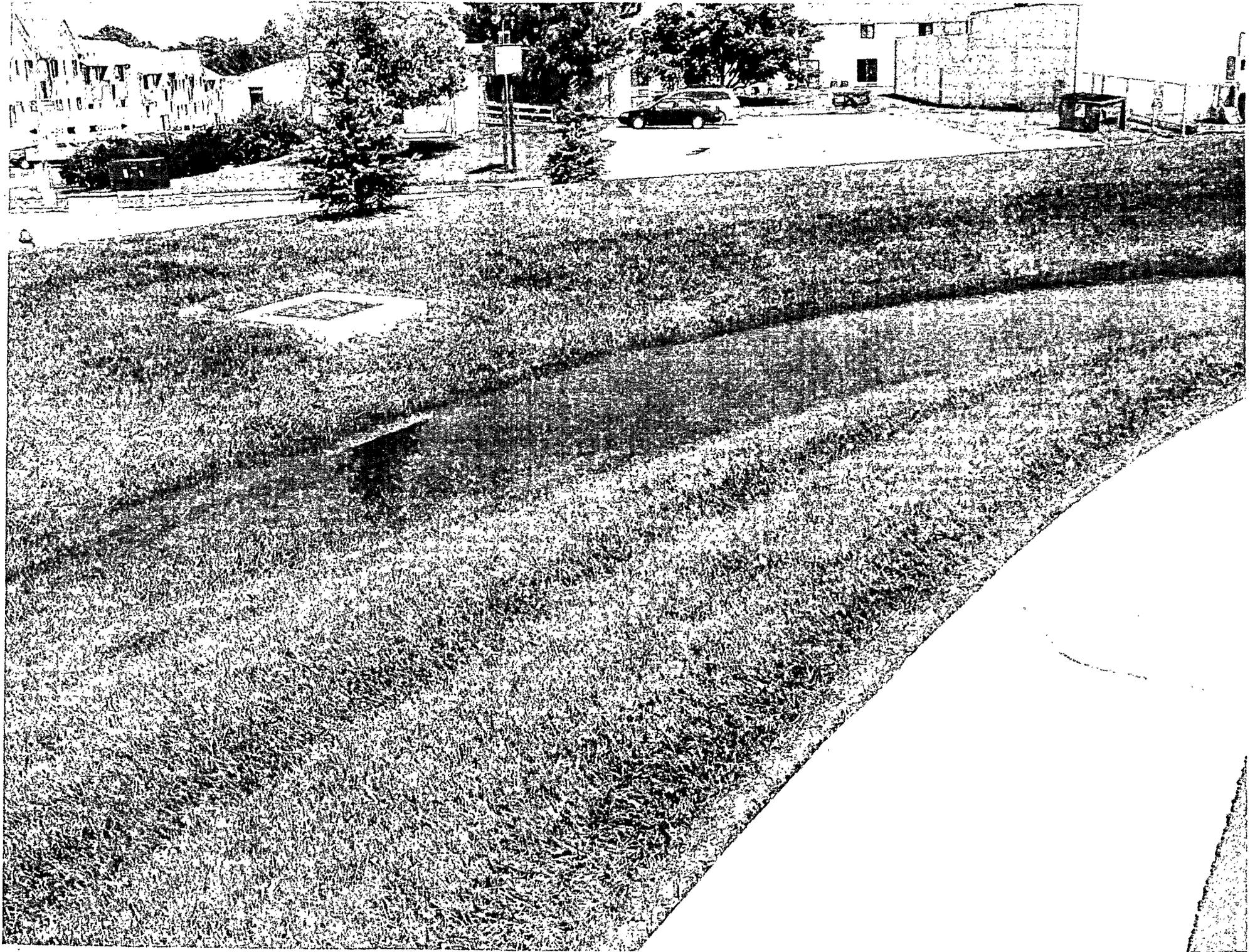
1640 L STREET, SUITE D  
 LINCOLN, NE 68508  
 TEL (402) 475-8588  
 FAX (402) 477-1856  
 www.WJA-consulting.com

**Consulting, Inc.**  
 Engineers & Scientists

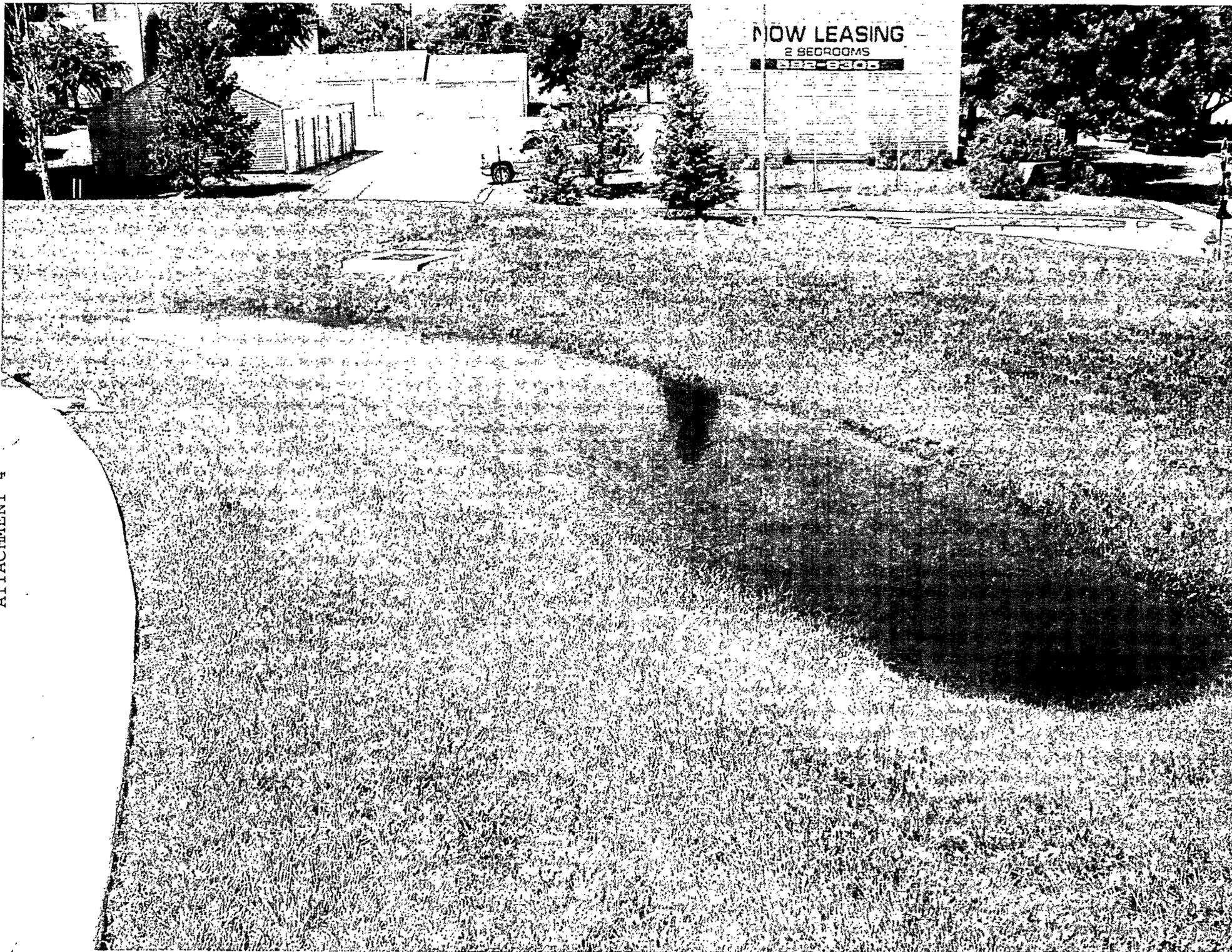
Water

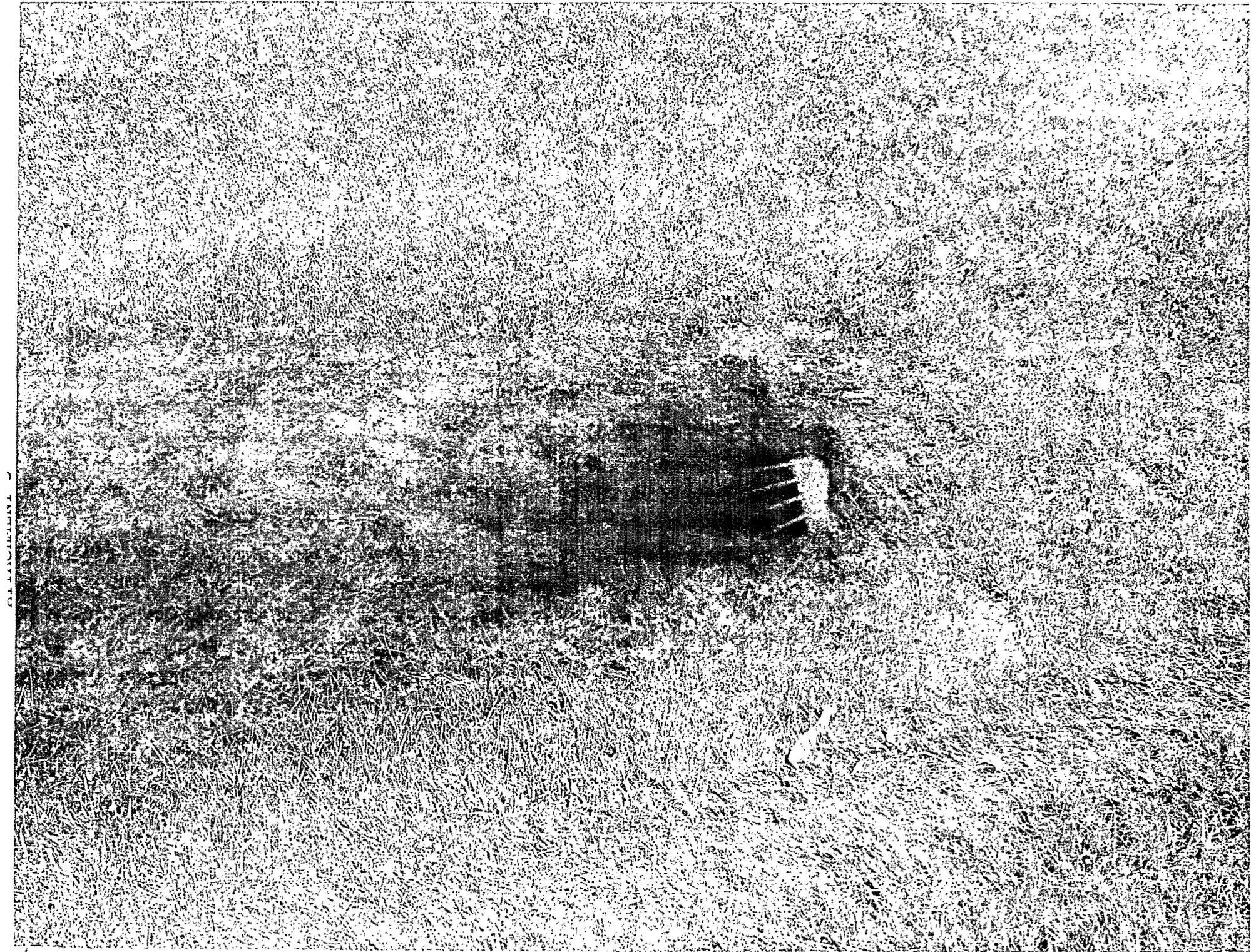
DRAWING NUMBER C-1  
 FILE: 14007C101STORMMAPS

This document was sealed by Darren A. Jack, #E-10833, on 8/24/08. This permit should not be converted to a certified document.

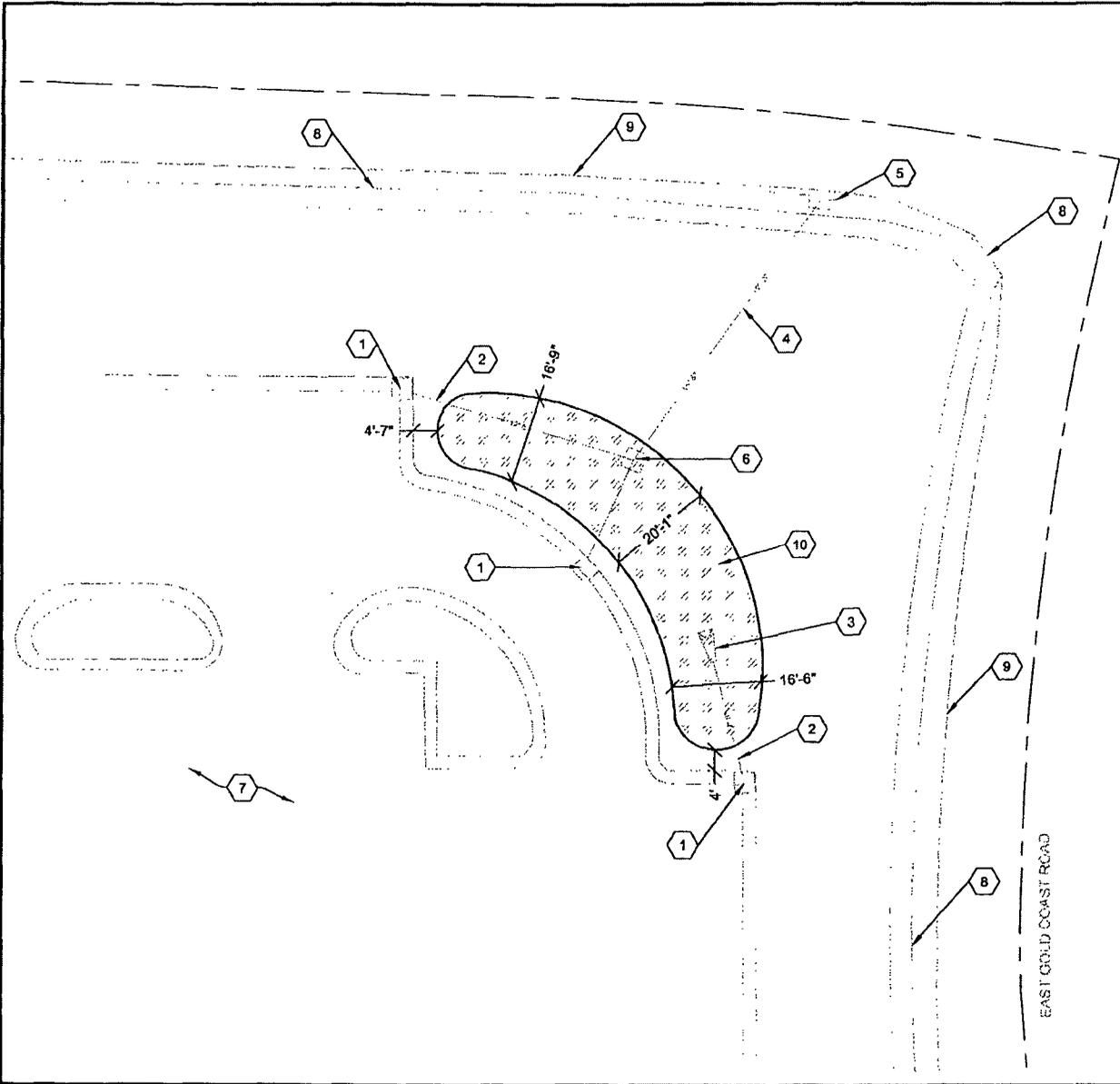








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**GENERAL NOTES:**

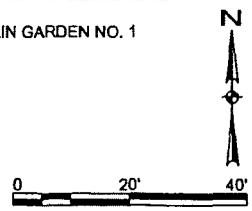
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL NOTIFY THE NEBRASKA ONE-CALL SYSTEM BEFORE CONSTRUCTION ACTIVITIES BEGIN. NEBRASKA DIGGERS HOTLINE: 1-800-331-5666 OR 811.
3. CONTRACTOR SHALL PROTECT ALL EXISTING STORM SEWER INLETS, MANHOLES AND PIPING DURING CONSTRUCTION OF RAIN GARDEN.

**## SHEET KEYNOTES:**

1. EXISTING 24" GRATE INLET, RIM ELEV = 1093.0'
2. EXISTING 12" STORM SEWER PIPE.
3. EXISTING 12" RCP FLARED END SECTION, RIM ELEV = 1092.5'.
4. EXISTING 15" STORM SEWER PIPE.
5. EXISTING STORM SEWER CURB INLET.
6. EXISTING DRAW DOWN STRUCTURE, RIM ELEV = 1092.0'.
7. PARKING LOT.
8. EXISTING CONCRETE SIDEWALK.
9. EDGE OF ROADWAY.
10. PROPOSED RAIN GARDEN NO. 1, APPROXIMATE DIMENSIONS: 85' BY 18', 1602 SF. SEE SHEET C-5 FOR VEGETATION PLAN.

**LEGEND**

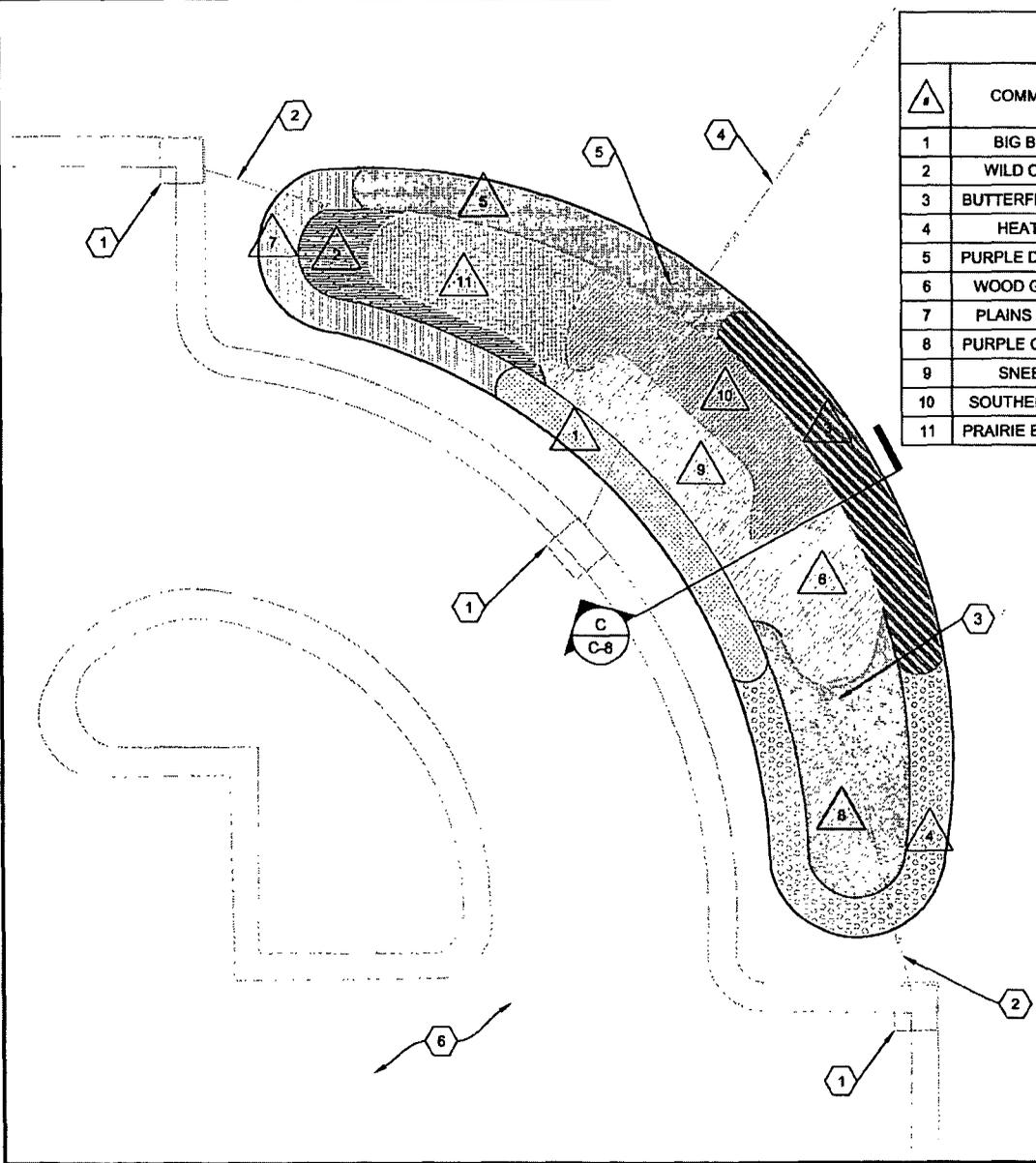
- EXISTING 15" STORM SEWER
- EXISTING 12" STORM SEWER
- ROADWAY CENTERLINE
- RAIN GARDEN NO. 1



REVISION TRACKING	
DATE	REVISION

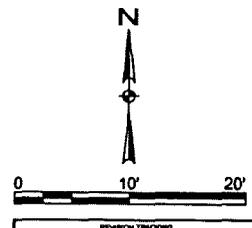
SARY COUNTY STORM WATER BEST MANAGEMENT PRACTICES SARY COUNTY, NEBRASKA	OPTIONAL BID NO. 1 RAIN GARDEN NO. 1 PARTIAL SITE PLAN
PROJECT NUMBER: 18-007 DESIGNED: KAP DRAWN: DAL CHECKED: ECL	1840 T. STREET, SUITE D LINCOLN, NE 68508 TEL: (402) 475-8588 FAX: (402) 477-1856 www.WJA-consulting.com
<b>WJA Consulting, Inc.</b> Engineers & Scientists Water, Air & Soil	
DRAWING NUMBER	C-4
FILE: 18007C402STORMBMP5	

This document was sealed by Darren A. Jack, #E-10833, on 8/24/09. This media should not be considered a certified document.



RAIN GARDEN NO. 1 PLANTING SCHEDULE					
#	COMMON NAME	SPECIES NAME	PLANT SPACING	# REQUIRED	HATCH TYPE
1	BIG BLUESTEM	ANDROPOGON GERARDII	24 IN.	30	[Stippled Hatch]
2	WILD COLUMBINE	AQUILEGIA CANADENSIS	18 IN.	35	[Horizontal Line Hatch]
3	BUTTERFLY MILKWEED	ASCLEPIAS TUBEROSA	24 IN.	35	[Diagonal Line Hatch]
4	HEATH ASTER	ASTER ERICOIDES	15-18 IN.	80	[Dotted Hatch]
5	PURPLE DOMED ASTER	ASTER NOVAE-ANGLIAE	18 IN.	65	[Cross-hatch]
6	WOOD GRAY SEDGE	CAREX GRISEA	18 IN.	50	[Vertical Line Hatch]
7	PLAINS COREOPSIS	COREOPSIS TINCTORIA	15-18 IN.	50	[Horizontal Line Hatch]
8	PURPLE CONEFLOWER	ECHINACEA PURPUREA	18 IN.	90	[Stippled Hatch]
9	SNEEZEWEED	HELENIUM AUTUMNALE	18 IN.	70	[Cross-hatch]
10	SOUTHERN BLUE IRIS	IRIS VIRGINICA	18 IN.	80	[Diagonal Line Hatch]
11	PRAIRIE BLAZING STAR	LIATRIS PYCNOSTACHYA	18 IN.	65	[Stippled Hatch]

- ## SHEET KEYNOTES:**
- EXISTING 24" GRATE INLET, RIM ELEV = 1093.0'.
  - EXISTING 12" Ø STORM SEWER PIPE.
  - EXISTING 12" Ø RCP FLARED END SECTION, RIM ELEV = 1092.5'.
  - EXISTING 15" Ø STORM SEWER PIPE.
  - EXISTING DRAW DOWN STRUCTURE, RIM ELEV = 1092.0'.
  - PARKING LOT.



REVISION TRACKING	
DATE	DESCRIPTION

SARPY COUNTY  
STORM WATER BEST MANAGEMENT PRACTICES  
SARPY COUNTY, NEBRASKA

OPTIONAL BID NO. 1  
RAIN GARDEN NO. 1 VEGETATION PLAN

PROJECT NUMBER: 14807  
DESIGNED: BAE  
DRAWN: JAL  
CHECKED: BDL

1840 1<sup>st</sup> STREET SUITE D  
LINCOLN, NEBRASKA  
TEL: (402) 475-8888  
FAX: (402) 477-1858  
www.VLA-consulting.com

**Consulting, Inc.**  
Engineers & Scientists  
Water.L.L.P.

DRAWING NUMBER: C-5  
FILE: 14807C:\STORMWATER

Attachment 8

Sarpy County Rain Garden Proposed Project

Estimated Costs for Component Parts

ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	EXTENDED COST
1	Excavation	300	CY	\$11.98	\$3,594.00
2	Import Sandy Loam Fill	240	CY	\$35.86	\$8,606.40
3	Import Grave (No. 2 Stone)	30	CY	\$65.75	\$1,972.50
4	Under-Drain Piping (6" Slotted HDPE)	130	LF	\$1.79	\$232.70
5	Fittings (3-45degree elbows and 2-90 degree elbows)	6	Each	\$95.83	574.98
6	Vegetation	1600	SF	\$2.39	\$3,824.00
7	Connection to Existing Area Drain	1	Each	\$1,195.42	\$1,195.42
	<b>TOTAL</b>				<b>\$20,000</b>

**ATTACHMENT 9**  
**IMPLEMENTATION SCHEDULE**  
**SARPY COUNTY RAIN GARDEN PROJECT**

Sarpy County notified of award from Papio-Missouri NRD:	June 2012
Sarpy County Purchasing Department releases RFP:	July 9, 2012
Advertisement:	July 18-July 25, 2012
Prebid Meeting:	July 31, 2012
Open Bids:	August 9, 2012
Award Bid:	August 14, 2012
Contract Documents Completed:	August 24, 2012
Project Start:	September 3, 2012
Project Completion:	September 21, 2012