

Agenda Item: 10.

MEMORANDUM

TO: Programs, Projects and Operations Subcommittee

FROM: Martin P. Cleveland, Construction Engineer

SUBJECT: Silver Creek Watershed Structure #14 Stabilization Project Bids

DATE: November 22, 2011

Attached are location map, typical cross-section and photographs for the referenced project site. Silver Creek Watershed Structure #14 is located northwest of Tekamah in Burt County. This structure (earthen dam) was built in 2001 to stabilize an eroding gully in the Silver Creek Watershed. The stabilization project work consists of placing rock rip-rap along the eroding front berm of the referenced structure to stop the berm erosion that will eventually endanger the dam's safety. The berm erosion is caused by the pond wave action on the berm. The work includes the furnishing of the labor, materials, equipment, tools and incidentals necessary to install approximately 450 tons of rock riprap and 170 cubic yards of soil infill along approximately 350 feet of dam front berm. The contract provides for 20 working days to complete the project.

A bid summary is attached for your consideration. The apparent low bidder is Glup Construction Inc. with a bid as follows:

1. Rock Ripap 450 tons (estimated) at \$57.55/ton with total cost of \$25,897.50
2. Soil Infill 170 cubic yards (estimated) at \$10.00/cubic yard with a total cost of \$1,700.00
3. Fence 100 ft. (estimated) at \$10/ ft. with a total cost of \$1,000.00
4. Grand Total (1+2+3) = \$28,597.50

Based on the estimated quantities, the total project cost would be \$28,597.50. The Engineer's opinion of cost is \$27,000.

This work will be funded via funds included in the Project Maintenance Dams Contract Work (Account 590-4479). As of October 31, 2011 the remaining funds in this account was \$85,412.

It is Management's recommendation that the Subcommittee recommend to the Board of Directors that the General Manager be authorized to execute a contract for Silver Creek Watershed Structure #14 Stabilization Project with Glup Construction Inc., for their total base bid of \$28,597.50.

Summary of Bid Proposals

Project: Silver Creek Watershed Structure #14 Stabilization Project
 Opening Date: November 22, 2011

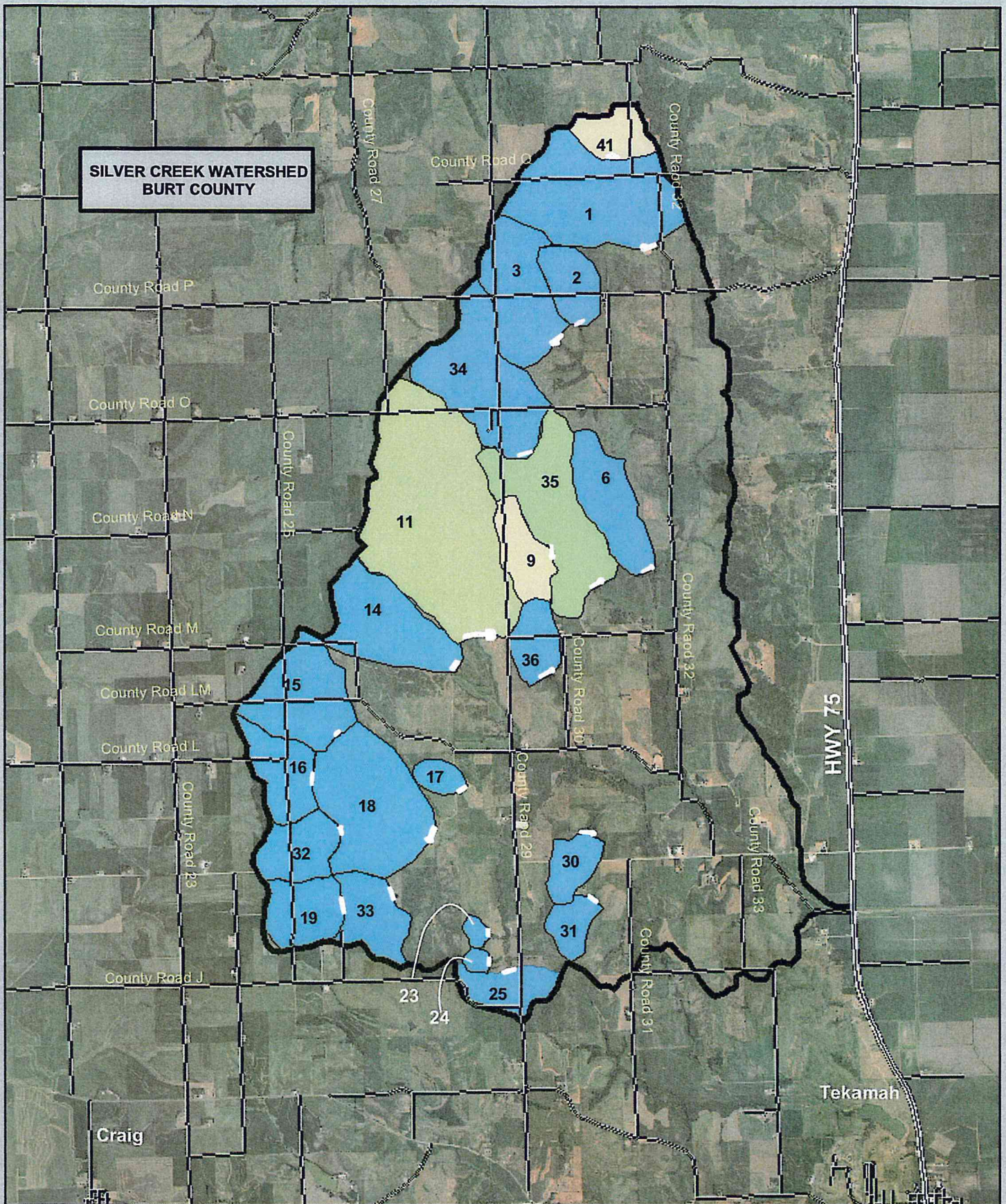
NRD Project No. 504A
 Opening Time: 11:00 a.m.

Bidder Name:	1	2	3	4	5	6
	Japp Bros.	Glup Construction	JMN Construction			
1. Riprap (450 Tons) Unit Price Bid (\$/Ton)	\$78.81	\$57.55	\$79.00			
2. Soil infill (170 cubic yards) (\$ /cu. Yd.)	\$18.77	\$10.00	\$22.00			
3. Barbed wire fence (100 ft.) (\$/ft.)	\$7.11	\$10.00	\$3.00			
4. Total Base Bid (1 thru 3)	\$39,366.40	\$28,597.50	\$39,590.00			
Rock Supplier	Martin Marietta	Martin Marietta	Martin Marietta			

*Apparent Low Bidder is Glup Construction Inc.

Engineer's Estimate: \$27,000.00

**SILVER CREEK WATERSHED
BURT COUNTY**



LEGEND

Structure Schedule

- COMPLETED
- SUMMER 2007
- SUMMER 2008

4,100 0 4,100 8,200 12,300 16,400 Feet

2005 Ortho Imagery Not To Scale



USDA NRCS

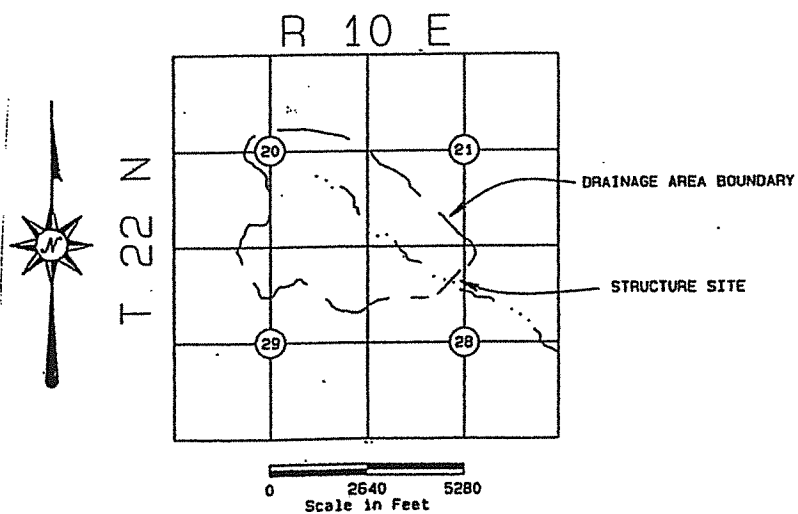
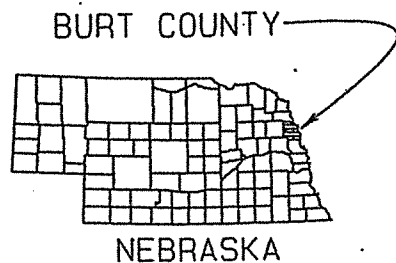


Papio-Missouri
River NRD

Date: 01/30/2007

FIGURE # 8

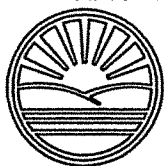




DRAINAGE AREA MAP
Sec 28 ; T22N ; R10E

Location: 5.5 miles north and 3 miles
west of Tekamah, Nebraska.

Location Map



PAPIO—MISSOURI RIVER
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8901 S. 154th St.
Omaha, NE 68138-3621
www.papionrd.org

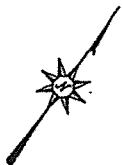
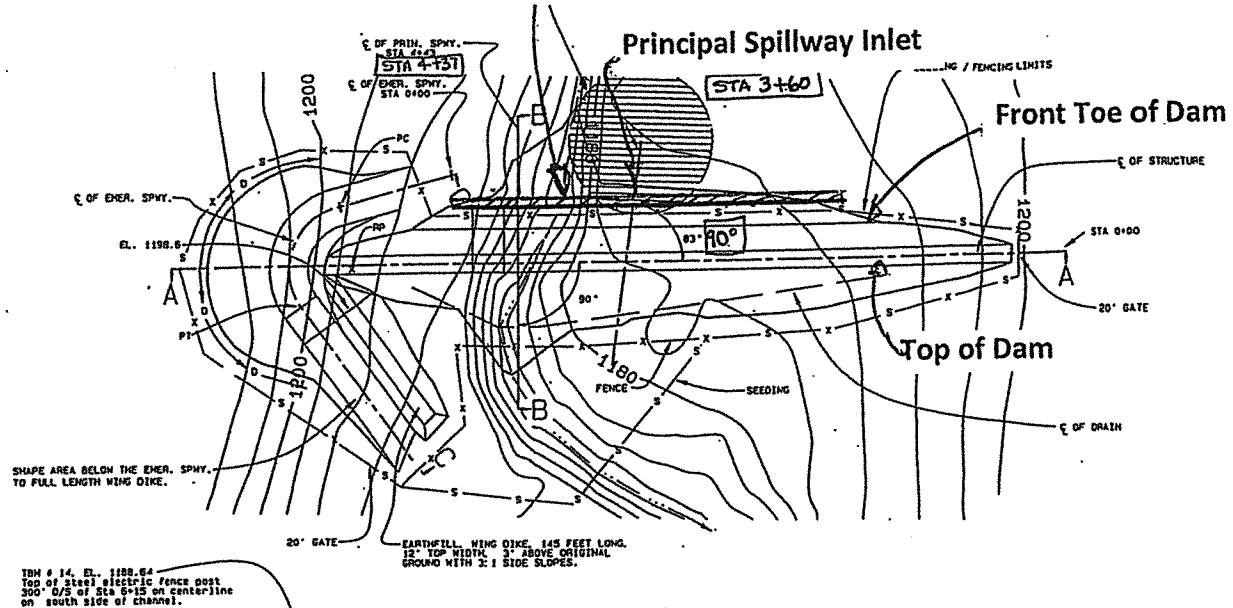
TITLE

SILVER CREEK WATERSHED
STRUCTURE # 14
BERM PROTECTION PROJECT

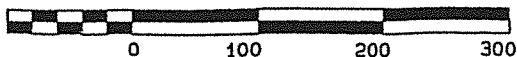
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DATE: 5/17/2011 Sheet 1 of 3

Proposed bank stabilization (riprap) 350 ft. long



GRAPHIC. SCALE



· CONTOUR INTERVAL = 2.0 ·

Plan Map



PAPIO—MISSOURI RIVER
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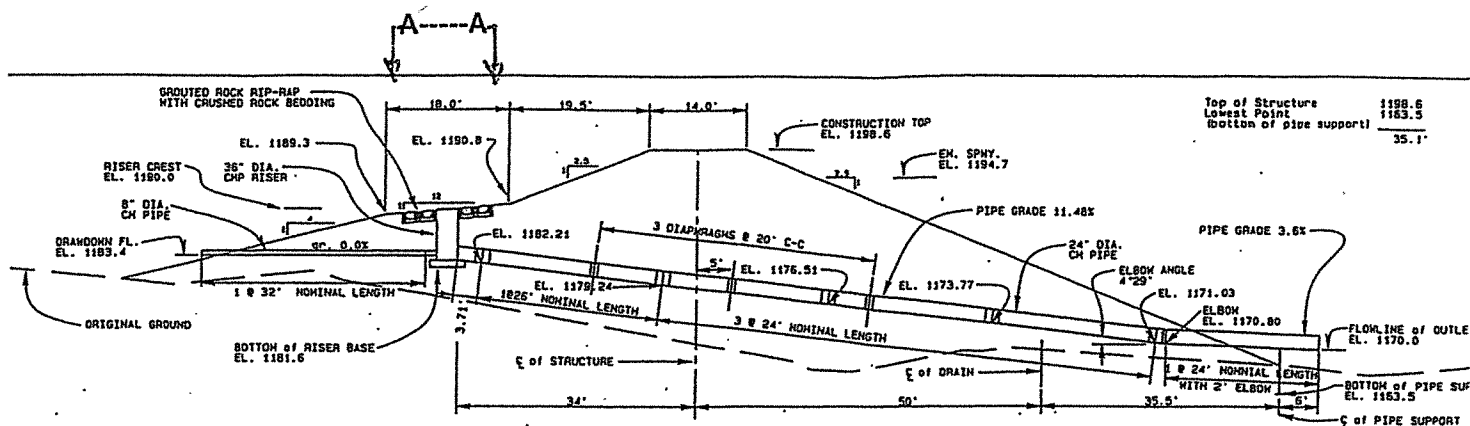
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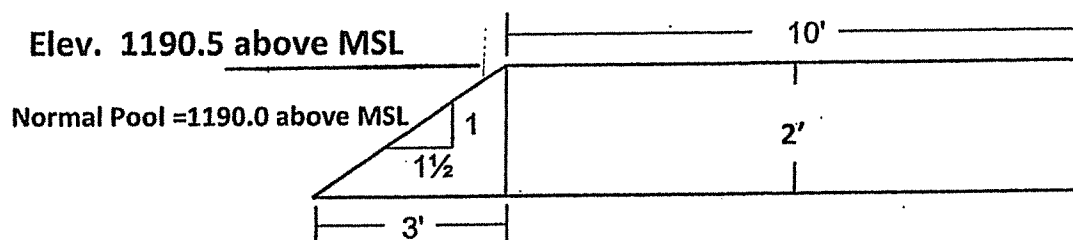
SILVER CREEK WATERSHED
STRUCTURE # 14
BERM PROTECTION PROJECT

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DATE: 5/17/2011 Sheet 2 of 3



SECTION B-B STATION 4+43.4+37
CROSS SECTION OF STRUCTURE ALONG \bar{C} OF PRINCIPAL SPILLWAY



PROPOSED ROCK RIPRAP CROSS SECTION A-A

Note: Soil Infill Layer top surface will be 0.5 ft. above the top of riprap (elevation 1191 MSL)

Cross-sections



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STRUCTURE # 14
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DATE: 5/17/2011 Sheet 3 of 3



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