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 Riprap 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.

File: SC15
## Summary of Bid Proposals

**Project:** Silver Creek Watershed Structure #14 Stabilization Project  
**NRD Project No.:** 504A  
**Opening Date:** November 22, 2011  
**Opening Time:** 11:00 a.m.

<table>
<thead>
<tr>
<th>Bidder Name</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<tbody>
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<td>Japp Bros.</td>
<td>$78.81</td>
<td>$57.55</td>
<td>$79.00</td>
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<td>JMN Construction</td>
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<td>$10.00</td>
<td>$3.00</td>
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</tbody>
</table>

1. **Riprap (450 Tons)**  
   Unit Price Bid ($/Ton)  
   1. $78.81  
   2. $18.77  
   3. $7.11  

2. **Soil infill (170 cubic yards)**  
   ($/cu. Yd.)  
   1. $57.55  
   2. $10.00  
   3. $10.00  

3. **Barbed wire fence (100 ft.)**  
   ($/ft.)  
   1. $79.00  
   2. $22.00  
   3. $3.00  

4. **Total Base Bid (1 thru 3)**  
   $39,366.40  
   $28,597.50  
   $39,590.00

**Rock Supplier**  
1. Martin Marietta  
2. Martin Marietta  
3. Martin Marietta  
4. Martin Marietta

*Apparent Low Bidder is Glup Construction Inc.*  
**Engineer's Estimate:** $27,000.00

41111 MC:pb file 504A
Location Map

DRAINAGE AREA MAP
Sec 28 : T22N : R10E

Location: 5.5 miles north and 3 miles west of Tekamah, Nebraska.
Proposed bank stabilization (riprap) 350 ft. long

Principal Spillway Inlet

Front Toe of Dam

Top of Dam

GRAPHIC SCALE

0 100 200 300

"CONTOUR INTERVAL = 2.0"
SECTION B-G STATION 4+43-0 4+31
CROSS SECTION OF STRUCTURE ALONG C' OF PRINCIPAL SPILLWAY

Elev. 1190.5 above MSL

Normal Pool =1190.0 above MSL

1 3/2

2'

3'

PROPOSED ROCK RIPRAPP CROSS SECTION A-A

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