

Agenda Item: 6.

MEMORANDUM

TO: Programs, Projects and Operations Subcommittee
FROM: Martin P. Cleveland, Construction Engineer
SUBJECT: West Branch Channel Bank Stabilization Project
DATE: August 5, 2016

The West Branch Channel Bank Stabilization Project is located in Sarpy County, Nebraska, southeast of 108th and Giles Road, as shown on the enclosed location maps. Also, enclosed are project photos. The project consists of installing rock rip-rap in five locations along 2520 linear feet of channel bank that has eroded.

On July 28, 2016, the District opened bids for the West Branch Channel Bank Stabilization Project and received four bids ranging from \$731,347.20 to \$ 486,570.00. The apparent low bid of \$ 486,570.00 was submitted by Niewohner Construction Inc. Enclosed is a bid summary.

The Engineer's cost estimate, prepared by District staff for the West Branch Channel Bank Stabilization Project is \$460,520.00.

Management recommends that the Programs, Projects and Operations Subcommittee recommend to the Board of Directors that the General Manager be authorized to execute a contract with Niewohner Construction Inc. in an amount not to exceed \$486,570.00 for the construction of the West Branch Channel Bank Stabilization Project.

WEST BRANCH CHANNEL BANK STABILIZATION PROJECT - BID SUMMARY

NRD PROJECT NO. 530

BID OPENING : JULY 28, 2016@ 2:00 P.M.

| BIDDERS NAME: | | | | TAB Construction Co. | | Valley Corporation, Inc. | | Niewohner Construction Inc. | | TCW Construction Inc. | | ENGINEERS ESTIMATE | |
|--|----------|---------------------|--------|----------------------|--------------|--------------------------|--------------|-----------------------------|-----------------|-----------------------|--------------|--------------------|--------------|
| Item No. | Site | Description | Weight | Unit Cost (\$/ton) | Total Cost | Unit Cost (\$/ton) | Total Cost | Unit Cost (\$/ton) | Total Cost | Unit Cost (\$/ton) | Total Cost | Unit Cost (\$/ton) | Total Cost |
| 1 | A | Rock Riprap | 1,200 | \$67.92 | \$81,504.00 | \$69.03 | \$82,836.00 | \$46.50 | \$55,800.00 | \$50.37 | \$60,444.00 | \$44.00 | \$52,800.00 |
| 2 | B | Rock Riprap | 760 | \$68.44 | \$52,014.40 | \$59.07 | \$44,893.20 | \$46.50 | \$35,340.00 | \$50.37 | \$38,281.20 | \$44.00 | \$33,440.00 |
| 3 | C | Rock Riprap | 1,000 | \$67.92 | \$67,920.00 | \$59.07 | \$59,070.00 | \$46.50 | \$46,500.00 | \$50.37 | \$50,370.00 | \$44.00 | \$44,000.00 |
| 4 | D | Rock Riprap | 4,640 | \$67.74 | \$314,313.60 | \$59.07 | \$274,084.80 | \$46.50 | \$215,760.00 | \$50.37 | \$233,716.80 | \$44.00 | \$204,160.00 |
| 5 | E | Rock Riprap | 2,480 | \$67.74 | \$167,995.20 | \$59.07 | \$146,493.60 | \$46.50 | \$115,320.00 | \$50.37 | \$129,917.60 | \$44.00 | \$109,120.00 |
| 6 | | Subtotal (1 thru 5) | 10,080 | | \$683,747.20 | | \$607,377.60 | | \$468,720.00 | | \$507,729.60 | | \$443,520.00 |
| 7 | A thru E | Soil Infill * | 1,700 | \$28.00 | \$47,600.00 | \$13.81 | \$23,477.00 | \$10.50 | \$17,850.00 | \$9.76 | \$16,592.00 | \$10.00 | \$17,000.00 |
| 8 | | Total (1+7) | | | \$731,347.20 | | \$630,854.60 | | \$486,570.00 ** | | \$524,321.60 | | \$460,520.00 |
| 9 | | Bid Bond (Y or N) | | | Y | | Y | | Y | | Y | | NA |
| 10 | | Addendum (Y or N) | | | N | | N | | N | | N | | NA |
| * Soil Infill is measured in cubic yards | | | | | | | | | | | | | |
| ** Management Recommendation: Niewohner Const. | | | | | | | | | | | | | |



Giles Rd

Centennial Rd

West Branch Channel
Bank Stabilization Project

North

Papillion, NE

Lincoln Rd.

96th

© 2016 Google W Lincoln Rd

W Papio Tr

Google earth

1993

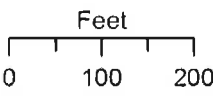
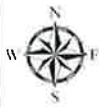
41°09'52.70" N 96°04'22.91" W elev 1028 ft eye alt 14358 ft



Legend

- Bank Erosion Extents
- Culverts
- Sections

Sta 353+00L - 356+00L;
Sta 349+60R - 351+50R



**PAPIO-MISSOURI RIVER
NATURAL
RESOURCES
DISTRICT**

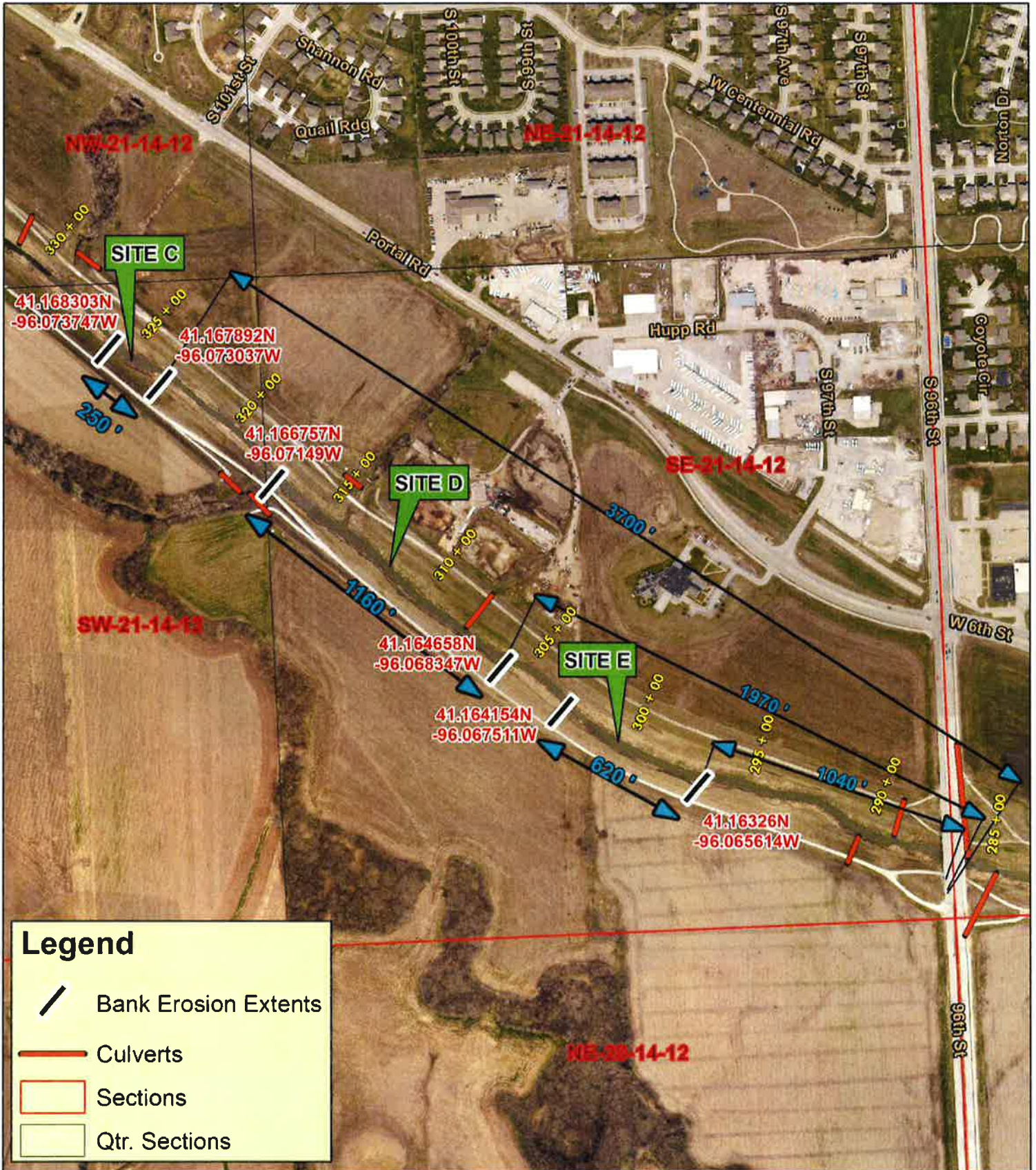
8901 S. 154th Street
Omaha, NE 68138-3621

**WEST BRANCH CHANNEL PROJECT
BANK STABILIZATION PROJECT**

GILES RD. TO 96TH ST.

Location Map
SITES A & B

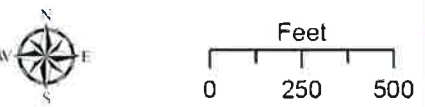
Figure 1
Date: 8/17/15



Legend

- Bank Erosion Extents
- Culverts
- Sections
- Qtr. Sections

Sta 323+60R - 326+10R;
 Sta 306+15R - 317+75R;
 Sta 297+05R - 303+25R



**PAPIO-MISSOURI RIVER
 NATURAL
 RESOURCES
 DISTRICT**

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**WEST BRANCH CHANNEL PROJECT
 BANK STABILIZATION PROJECT**

GILES RD. TO 96TH ST.

Location Map
 SITES C, D, E

Figure 2
 Date: 8/17/15

West Branch Channel Project (Giles to 96th)

Bank Stabilization Site A (Station 353+00 to 356+00 L) Closeup Photo

Looking Downstream at Site

North



Direction of Flow

