

MEMORANDUM

TO: Programs, Projects and Operations Subcommittee

FROM: Martin P. Cleveland, Construction Engineer

SUBJECT: Big Papio Creek Levee Culverts Project Phase 2

DATE: April 4, 2019

The Big Papio Creek Levee Culverts Project Phase 2 is located in Douglas and Sarpy Counties, in Nebraska, as shown on the enclosed location maps. The project consists of rehabilitation and/or replacement of 17 aging levee penetrations (culverts) with either sliplining with HDPE (plastic) pipe or lining with centrifugally cast concrete.

The project was bid in March 2019 with two received bids ranging from \$3,146,227.15 to \$3,859,294.34. On March 28, 2019, the District opened bids for the Big Papio Creek Levee Culverts Project Phase 2. The lowest bid is \$3,146,227.15 and was submitted by Graham Construction, Inc. Enclosed is a bid summary.

The Engineer's cost estimate for the Big Papio Creek Levee Culverts Project Phase 2, prepared by FYRA Engineering, is \$2,572,336.80. Enclosed is the engineer's bid recommendation letter. It is the engineer's recommendation that the bid of \$3,146,227.15 received from Graham Construction, Inc. be accepted.

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 Graham Construction, Inc. in the amount of \$3,146,227.15 for the construction of the Big Papio Levee Culverts Project Phase 2, subject to changes deemed necessary by the General Manager and approval as to form by District Legal Counsel.



28 March 2019

Mr. Martin Cleveland, P.E.
Papio-Missouri River NRD
8901 S. 154th Street
Omaha, NE 68138

Re: Big Papio Levee Culverts Phase 2 Engineer's Letter of Recommendation

Dear Martin:

The bid opening for the above-referenced project was held at the P-MRNRD on 28 March 2019. The low bid of \$3,146,227.15 was received from Graham Construction, Inc. and was above the engineer's estimate of \$2,572,336.80 by \$573,890.35. One other bid was submitted by Valley Corporation for \$3,859,294.34 (upon minor calculation corrections during the bid tabulation review) and can be viewed on the attached bid tabulations.

After a review of the bids, the unit prices for Graham appear to be reasonable and in line with projects that have bid in the past, however there is a large difference (\$547,691.20) in the mobilization cost which represents a much larger percentage of construction costs than typically seen on past bids. Valley Corporation's unit prices are higher than past bids on most of the bid items. Based on informal conversations with the two bidders after the bid opening, it is expected that the higher than anticipated bid costs are directly related to the costs of construction being driven up from the recent flooding events. The flood repair work has put a strain on material supply, particularly earthwork and riprap, and material transport costs. Therefore, the higher mobilization costs shown in Graham's bid and higher unit costs on Valley Corporation's bids are likely directly related to recent local flooding events. As water continues to lower along the Missouri and Platte Rivers, more and more repair work is being uncovered and the general feeling in the contracting industry is that bid prices will remain high over the next six months to a year.

The low bidder, Graham Construction, was also recently awarded your Modifications to Federal Levee Systems R-613 and R-616-613 project, which has now been put on hold because of the flood events. Graham had resources allocated for that project which are now not being used, and they are eager to put those resources to work. If the bid price fits within your budget, my recommendation is to award the project to Graham Construction, Inc. and begin the contracting process upon Board approval. While we believe that re-bidding the project at a later date may yield a bid closer to the engineer's estimate, it may be some time before that happens. Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Lindy Rogers". The signature is written in a cursive, flowing style.

Lindy Rogers, P.E.

Basis of Bid 1 (NRD)				VALLEY CORP		GRAHAM		ENGINEER'S ESTIMATE		LOW BID DEVIATION
ITEM NO	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
1.01	MOBILIZATION	LS	1	\$ 195,216.98	\$ 195,216.98	\$ 686,540.00	\$ 686,540.00	\$ 128,790.30	\$ 128,790.30	\$ 557,749.70
1.02	SURVEYING AND STAKING	LS	1	\$ 27,048.73	\$ 27,048.73	\$ 55,000.00	\$ 55,000.00	\$ 33,000.00	\$ 33,000.00	\$ 22,000.00
1.03	SWPPP MEASURES	LS	1	\$ 35,778.93	\$ 35,778.93	\$ 25,000.00	\$ 25,000.00	\$ 14,000.00	\$ 14,000.00	\$ 11,000.00
1.04	DEWATERING	LS	1	\$ 10,529.57	\$ 10,529.57	\$ 20,500.00	\$ 20,500.00	\$ 1,500.00	\$ 1,500.00	\$ 19,000.00
1.05	CLEAN AND JET 24" CULVERT	LF	454	\$ 9.05	\$ 4,108.70	\$ 8.00	\$ 3,632.00	\$ 24.00	\$ 10,896.00	\$ (7,264.00)
1.06	CLEAN AND JET 30" CULVERT	LF	156	\$ 9.05	\$ 1,411.80	\$ 8.75	\$ 1,365.00	\$ 30.00	\$ 4,680.00	\$ (3,315.00)
1.07	CLEAN AND JET 36" CULVERT	LF	291	\$ 9.05	\$ 2,633.55	\$ 9.50	\$ 2,764.50	\$ 36.00	\$ 10,476.00	\$ (7,711.50)
1.08	CLEAN AND JET 48" CULVERT	LF	391	\$ 13.54	\$ 5,294.14	\$ 11.50	\$ 4,496.50	\$ 48.00	\$ 18,768.00	\$ (14,271.50)
1.09	CLEAN AND JET 60" CULVERT	LF	320	\$ 27.08	\$ 8,665.60	\$ 14.00	\$ 4,480.00	\$ 60.00	\$ 19,200.00	\$ (14,720.00)
1.10	CLEAN AND JET 84" CULVERT	LF	169	\$ 27.08	\$ 4,576.52	\$ 16.50	\$ 2,788.50	\$ 84.00	\$ 14,196.00	\$ (11,407.50)
1.11	TEMPORARY TRAFFIC CONTROL	LS	1	\$ 15,551.54	\$ 15,551.54	\$ 8,400.00	\$ 8,400.00	\$ 1,000.00	\$ 1,000.00	\$ 7,400.00
1.12	EXCAVATION	CY	3,230	\$ 14.03	\$ 45,316.90	\$ 9.10	\$ 29,393.00	\$ 8.00	\$ 25,840.00	\$ 3,553.00
1.13	EMBANKMENT	CY	880	\$ 11.47	\$ 10,093.60	\$ 13.50	\$ 11,880.00	\$ 12.00	\$ 10,560.00	\$ 1,320.00
1.14	LEVEE EMBANKMENT	CY	50	\$ 16.99	\$ 849.50	\$ 21.60	\$ 1,080.00	\$ 12.00	\$ 600.00	\$ 480.00
1.15	STABILIZED CONSTRUCTION ENTRANCE	EA	2	\$ 3,414.96	\$ 6,829.92	\$ 1,805.00	\$ 3,610.00	\$ 7,000.00	\$ 14,000.00	\$ (10,390.00)
1.16	STRIP, STOCKPILE AND REPLACE 6" TOPSOIL	SY	513	\$ 4.04	\$ 2,072.52	\$ 1.85	\$ 949.05	\$ 5.00	\$ 2,565.00	\$ (1,615.95)
1.17	REMOVE 24" DIA CMP	LF	130	\$ 31.44	\$ 4,087.20	\$ 17.50	\$ 2,275.00	\$ 25.00	\$ 3,250.00	\$ (975.00)
1.18	REMOVE 36" DIA CMP	LF	79	\$ 31.61	\$ 2,497.19	\$ 21.20	\$ 1,674.80	\$ 40.00	\$ 3,160.00	\$ (1,485.20)
1.19	REMOVE 60" DIA CMP	LF	20	\$ 95.16	\$ 1,903.20	\$ 31.85	\$ 637.00	\$ 50.00	\$ 1,000.00	\$ (363.00)
1.20	REMOVE 30" DIA FLARED END SECTION	EA	1	\$ 251.15	\$ 251.15	\$ 350.00	\$ 350.00	\$ 200.00	\$ 200.00	\$ 150.00
1.21	REMOVE 60" DIA FLARED END SECTION	EA	1	\$ 260.26	\$ 260.26	\$ 380.00	\$ 380.00	\$ 400.00	\$ 400.00	\$ (20.00)
1.22	REMOVE AND SALVAGE TO OWNER 24" DIA FLAP GATE	EA	1	\$ 1,030.42	\$ 1,030.42	\$ 315.00	\$ 315.00	\$ 250.00	\$ 250.00	\$ 65.00
1.23	REMOVE AND SALVAGE TO OWNER 36" DIA FLAP GATE	EA	1	\$ 1,267.13	\$ 1,267.13	\$ 400.00	\$ 400.00	\$ 350.00	\$ 350.00	\$ 50.00
1.24	REMOVE AND SALVAGE TO OWNER 84" DIA FLAP GATE	EA	1	\$ 1,545.62	\$ 1,545.62	\$ 850.00	\$ 850.00	\$ 2,500.00	\$ 2,500.00	\$ (1,650.00)
1.25	REMOVE TYPE II AREA INLET TOP	EA	1	\$ 224.27	\$ 224.27	\$ 825.00	\$ 825.00	\$ 4,000.00	\$ 4,000.00	\$ (3,175.00)
1.26	REMOVE TIMBER PILE PIPE SUPPORT	EA	2	\$ 1,113.96	\$ 2,227.92	\$ 852.00	\$ 1,704.00	\$ 800.00	\$ 1,600.00	\$ 104.00
1.27	REMOVE AND REPLACE 6" THICK CONCRETE PAVEMENT	SF	150	\$ 29.36	\$ 4,404.00	\$ 7.63	\$ 1,144.50	\$ 8.00	\$ 1,200.00	\$ (55.50)
1.28	REMOVE AND REPLACE 6" CONCRETE TRAIL	SF	400	\$ 24.92	\$ 9,968.00	\$ 6.81	\$ 2,724.00	\$ 8.00	\$ 3,200.00	\$ (476.00)
1.29	REMOVE AND REPLACE 6' CHAIN LINK FENCE WITH BARBED WIRE	LF	110	\$ 51.69	\$ 5,685.90	\$ 32.70	\$ 3,597.00	\$ 40.00	\$ 4,400.00	\$ (803.00)
1.30	GROUT TO FILL VOIDS	CY	91	\$ 1,304.68	\$ 118,725.88	\$ 575.00	\$ 52,325.00	\$ 160.00	\$ 14,560.00	\$ 37,765.00
1.31	TYPE II AREA INLET TOP	EA	1	\$ 2,905.40	\$ 2,905.40	\$ 1,400.00	\$ 1,400.00	\$ 4,000.00	\$ 4,000.00	\$ (2,600.00)
1.32	TAP EXISTING AREA INLET	EA	1	\$ 2,226.28	\$ 2,226.28	\$ 925.00	\$ 925.00	\$ 1,000.00	\$ 1,000.00	\$ (75.00)
1.33	RECONNECT TO CLAY STORM DRAIN	EA	1	\$ 3,655.32	\$ 3,655.32	\$ 700.00	\$ 700.00	\$ 1,500.00	\$ 1,500.00	\$ (800.00)
1.34	TEMPORARY COFFER DAM	LS	1	\$ 37,043.46	\$ 37,043.46	\$ 29,000.00	\$ 29,000.00	\$ 2,000.00	\$ 2,000.00	\$ 27,000.00
1.35	INSTALL BOLLARD	EA	4	\$ 1,846.25	\$ 7,385.00	\$ 656.00	\$ 2,624.00	\$ 300.00	\$ 1,200.00	\$ 1,424.00
1.36	20" OD HDPE PIPE (NON-JOINTED)	LF	106	\$ 144.19	\$ 15,284.14	\$ 89.00	\$ 9,434.00	\$ 50.00	\$ 5,300.00	\$ 4,134.00
1.37	18" OD HDPE SLIPLINING WITH GROUT	LF	148	\$ 409.07	\$ 60,542.36	\$ 195.00	\$ 28,860.00	\$ 150.00	\$ 22,200.00	\$ 6,660.00
1.38	20" OD HDPE SLIPLINING WITH GROUT	LF	218	\$ 402.91	\$ 87,834.38	\$ 200.00	\$ 43,600.00	\$ 180.00	\$ 39,240.00	\$ 4,360.00
1.39	22" OD HDPE SLIPLINING WITH GROUT	LF	160	\$ 501.38	\$ 80,220.80	\$ 232.00	\$ 37,120.00	\$ 190.00	\$ 30,400.00	\$ 6,720.00
1.40	30" OD HDPE SLIPLINING WITH GROUT	LF	175	\$ 532.15	\$ 93,126.25	\$ 275.00	\$ 48,125.00	\$ 250.00	\$ 43,750.00	\$ 4,375.00
1.41	42" OD HDPE SLIPLINING WITH GROUT	LF	189	\$ 690.50	\$ 130,504.50	\$ 390.00	\$ 73,710.00	\$ 350.00	\$ 66,150.00	\$ 7,560.00
1.42	54" OD HDPE SLIPLINING WITH GROUT	LF	166	\$ 937.89	\$ 155,689.74	\$ 545.00	\$ 90,470.00	\$ 380.00	\$ 63,080.00	\$ 27,390.00
1.43	CENTRIFUGALLY CAST IN PLACE CONCRETE FOR 36" DIA CMP	LF	163	\$ 265.86	\$ 43,335.18	\$ 235.00	\$ 38,305.00	\$ 225.00	\$ 36,675.00	\$ 1,630.00
1.44	CENTRIFUGALLY CAST IN PLACE CONCRETE FOR 48" DIA CMP	LF	63	\$ 354.48	\$ 22,332.24	\$ 315.00	\$ 19,845.00	\$ 450.00	\$ 28,350.00	\$ (8,505.00)
1.45	CENTRIFUGALLY CAST IN PLACE CONCRETE FOR 60" DIA CMP	LF	147	\$ 443.10	\$ 65,135.70	\$ 395.00	\$ 58,065.00	\$ 520.00	\$ 76,440.00	\$ (18,375.00)
1.46	CENTRIFUGALLY CAST IN PLACE CONCRETE FOR 84" DIA CMP	LF	396	\$ 620.34	\$ 245,654.64	\$ 550.00	\$ 217,800.00	\$ 725.00	\$ 287,100.00	\$ (69,300.00)
1.47	24" DIA CMP	LF	42	\$ 64.97	\$ 2,728.74	\$ 72.00	\$ 3,024.00	\$ 75.00	\$ 3,150.00	\$ (126.00)
1.48	30" DIA CMP	LF	4	\$ 136.04	\$ 544.16	\$ 195.00	\$ 780.00	\$ 100.00	\$ 400.00	\$ 380.00
1.49	36" DIA CMP	LF	80	\$ 90.91	\$ 7,272.80	\$ 95.00	\$ 7,600.00	\$ 125.00	\$ 10,000.00	\$ (2,400.00)
1.50	48" DIA CMP	LF	8	\$ 220.66	\$ 1,765.28	\$ 245.00	\$ 1,960.00	\$ 225.00	\$ 1,800.00	\$ 160.00

Basis of Bid 1 (NRD)				VALLEY CORP		GRAHAM		ENGINEER'S ESTIMATE		LOW BID DEVIATION
ITEM NO	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
1.51	60" DIA CMP	LF	10	\$ 323.56	\$ 3,235.60	\$ 355.00	\$ 3,550.00	\$ 250.00	\$ 2,500.00	\$ 1,050.00
1.52	84" DIA CMP	LF	24	\$ 342.68	\$ 8,224.32	\$ 353.00	\$ 8,472.00	\$ 350.00	\$ 8,400.00	\$ 72.00
1.53	60" DIA RCP	LF	20	\$ 366.44	\$ 7,328.80	\$ 525.00	\$ 10,500.00	\$ 300.00	\$ 6,000.00	\$ 4,500.00
1.54	24" CONCRETE COLLAR	EA	2	\$ 1,268.53	\$ 2,537.06	\$ 805.00	\$ 1,610.00	\$ 1,500.00	\$ 3,000.00	\$ (1,390.00)
1.55	36" CONCRETE JOINT BLOCK	EA	1	\$ 1,901.22	\$ 1,901.22	\$ 1,950.00	\$ 1,950.00	\$ 2,000.00	\$ 2,000.00	\$ (50.00)
1.56	60" CONCRETE JOINT BLOCK	EA	1	\$ 3,502.33	\$ 3,502.33	\$ 3,450.00	\$ 3,450.00	\$ 2,500.00	\$ 2,500.00	\$ 950.00
1.57	24" DIA GALVANIZED STEEL FLARED END SECTION	EA	1	\$ 769.56	\$ 769.56	\$ 545.00	\$ 545.00	\$ 500.00	\$ 500.00	\$ 45.00
1.58	30" DIA GALVANIZED STEEL FLARED END SECTION	EA	1	\$ 958.02	\$ 958.02	\$ 705.00	\$ 705.00	\$ 800.00	\$ 800.00	\$ (95.00)
1.59	48" DIA GALVANIZED STEEL FLARED END SECTION	EA	1	\$ 1,246.00	\$ 1,246.00	\$ 1,410.00	\$ 1,410.00	\$ 1,100.00	\$ 1,100.00	\$ 310.00
1.60	60" DIA CONCRETE FLARED END SECTION	EA	1	\$ 4,776.70	\$ 4,776.70	\$ 3,415.00	\$ 3,415.00	\$ 2,500.00	\$ 2,500.00	\$ 915.00
1.61	REMOVE, RECONDITION AND REINSTALL 24" DIA FLAP GATE	EA	1	\$ 2,709.57	\$ 2,709.57	\$ 1,600.00	\$ 1,600.00	\$ 800.00	\$ 800.00	\$ 800.00
1.62	REMOVE, RECONDITION AND REINSTALL 30" DIA FLAP GATE	EA	1	\$ 3,940.40	\$ 3,940.40	\$ 1,730.00	\$ 1,730.00	\$ 1,500.00	\$ 1,500.00	\$ 230.00
1.63	REMOVE, RECONDITION AND REINSTALL 48" DIA FLAP GATE	EA	2	\$ 6,318.51	\$ 12,637.02	\$ 2,880.00	\$ 5,760.00	\$ 2,500.00	\$ 5,000.00	\$ 760.00
1.64	REMOVE, RECONDITION AND REINSTALL 60" DIA FLAP GATE	EA	2	\$ 8,227.52	\$ 16,455.04	\$ 4,765.00	\$ 9,530.00	\$ 3,000.00	\$ 6,000.00	\$ 3,530.00
1.65	ALUMINUM FLAP GATE FOR 20" OD HDPE	EA	1	\$ 5,544.83	\$ 5,544.83	\$ 3,935.00	\$ 3,935.00	\$ 2,000.00	\$ 2,000.00	\$ 1,935.00
1.66	24" DIA FLAP GATE	EA	1	\$ 12,194.20	\$ 12,194.20	\$ 1,325.00	\$ 1,325.00	\$ 2,000.00	\$ 2,000.00	\$ (675.00)
1.67	36" DIA FLAP GATE	EA	2	\$ 8,445.45	\$ 16,890.90	\$ 1,915.00	\$ 3,830.00	\$ 2,200.00	\$ 4,400.00	\$ (570.00)
1.68	84" DIA FLAP GATE	EA	1	\$ 25,550.27	\$ 25,550.27	\$ 6,450.00	\$ 6,450.00	\$ 7,000.00	\$ 7,000.00	\$ (550.00)
1.69	SHEET PILE	SF	528	\$ 37.63	\$ 19,868.64	\$ 42.00	\$ 22,176.00	\$ 40.00	\$ 21,120.00	\$ 1,056.00
1.70	SINGLE TIMBER PILE PIPE SUPPORT	EA	6	\$ 4,204.28	\$ 25,225.68	\$ 2,900.00	\$ 17,400.00	\$ 4,000.00	\$ 24,000.00	\$ (6,600.00)
1.71	DOUBLE TIMBER PILE PIPE SUPPORT	EA	5	\$ 8,712.03	\$ 43,560.15	\$ 7,160.00	\$ 35,800.00	\$ 7,000.00	\$ 35,000.00	\$ 800.00
1.72	TYPE "C" RIPRAP	TN	2,056	\$ 87.77	\$ 180,455.12	\$ 61.65	\$ 126,752.40	\$ 60.00	\$ 123,360.00	\$ 3,392.40
1.73	TYPE "B" RIPRAP	TN	620	\$ 87.77	\$ 54,417.40	\$ 60.80	\$ 37,696.00	\$ 50.00	\$ 31,000.00	\$ 6,696.00
1.74	6" BEDDING MATERIAL	SY	1,467	\$ 18.00	\$ 26,406.00	\$ 11.00	\$ 16,137.00	\$ 20.00	\$ 29,340.00	\$ (13,203.00)
1.75	SEEDING	AC	6.5	\$ 3,077.08	\$ 20,001.02	\$ 2,720.00	\$ 17,680.00	\$ 3,000.00	\$ 19,500.00	\$ (1,820.00)
1.76	WETLAND SEEDING	AC	0.07	\$ 4,923.32	\$ 344.63	\$ 4,350.00	\$ 304.50	\$ 6,000.00	\$ 420.00	\$ (115.50)
1.77	EROSION CONTROL BLANKET	SY	359	\$ 2.82	\$ 1,012.38	\$ 1.40	\$ 502.60	\$ 3.00	\$ 1,077.00	\$ (574.40)
TOTAL OF ALL UNIT BID PRICES FOR BASIS OF BID 1					\$ 2,096,935.87		\$ 1,988,642.35	\$ 1,416,693.30	\$ 571,949.05	

Basis of Bid 2 (City of Omaha)				VALLEY CORP		GRAHAM		ENGINEER'S ESTIMATE		LOW BID DEVIATION
ITEM NO	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
2.01	MOBILIZATION	LS	1	\$ 174,628.86	\$ 174,628.86	\$ 95,000.00	\$ 95,000.00	\$ 105,058.50	\$ 105,058.50	\$ (10,058.50)
2.02	SURVEYING AND STAKING	LS	1	\$ 17,817.50	\$ 17,817.50	\$ 35,000.00	\$ 35,000.00	\$ 15,000.00	\$ 15,000.00	\$ 20,000.00
2.03	SWPPP MEASURES	LS	1	\$ 18,754.77	\$ 18,754.77	\$ 13,000.00	\$ 13,000.00	\$ 8,000.00	\$ 8,000.00	\$ 5,000.00
2.04	CLEARING AND GRUBBING	LS	1	\$ 5,359.28	\$ 5,359.28	\$ 15,000.00	\$ 15,000.00	\$ 20,000.00	\$ 20,000.00	\$ (5,000.00)
2.05	DEWATERING	LS	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.06	TRENCH STABILIZATION	LS	1	\$ 184,534.30	\$ 184,534.30	\$ 63,000.00	\$ 63,000.00	\$ 100,000.00	\$ 100,000.00	\$ (37,000.00)
2.07	CLEAN AND JET 24" CULVERT	LF	83	\$ 9.05	\$ 751.15	\$ 8.00	\$ 664.00	\$ 24.00	\$ 1,992.00	\$ (1,328.00)
2.08	CLEAN AND JET 30" CULVERT	LF	480	\$ 9.05	\$ 4,344.00	\$ 9.00	\$ 4,320.00	\$ 30.00	\$ 14,400.00	\$ (10,080.00)
2.09	CLEAN AND JET 42" CULVERT	LF	93	\$ 13.54	\$ 1,259.22	\$ 10.00	\$ 930.00	\$ 42.00	\$ 3,906.00	\$ (2,976.00)
2.10	CLEAN AND JET 72" CULVERT	LF	158	\$ 27.08	\$ 4,278.64	\$ 15.00	\$ 2,370.00	\$ 72.00	\$ 11,376.00	\$ (9,006.00)
2.11	CLEAN AND JET 78" CULVERT	LF	196	\$ 27.08	\$ 5,307.68	\$ 16.00	\$ 3,136.00	\$ 78.00	\$ 15,288.00	\$ (12,152.00)
2.12	TEMPORARY TRAFFIC CONTROL	LS	1	\$ 15,551.54	\$ 15,551.54	\$ 3,750.00	\$ 3,750.00	\$ 4,000.00	\$ 4,000.00	\$ (250.00)
2.13	EXCAVATION	CY	7,722	\$ 8.49	\$ 65,559.78	\$ 9.10	\$ 70,270.20	\$ 8.00	\$ 61,776.00	\$ 8,494.20
2.14	EMBANKMENT	CY	3,198	\$ 11.47	\$ 36,681.06	\$ 13.15	\$ 42,053.70	\$ 12.00	\$ 38,377.70	\$ 3,977.70
2.15	LEVEE EMBANKMENT	CY	5,047	\$ 11.47	\$ 57,889.99	\$ 15.40	\$ 77,223.80	\$ 12.00	\$ 60,564.00	\$ 17,159.80
2.16	RING LEVEE EMBANKMENT AND REMOVAL	CY	2,551	\$ 29.96	\$ 76,427.96	\$ 36.20	\$ 92,346.20	\$ 20.00	\$ 51,020.00	\$ 41,326.20
2.17	STRIP, STOCKPILE AND REPLACE 6" TOPSOIL	SY	5,829	\$ 2.31	\$ 13,464.99	\$ 1.20	\$ 6,994.80	\$ 5.00	\$ 29,145.00	\$ (22,150.20)
2.18	REMOVE 30" DIA CMP	LF	340	\$ 31.52	\$ 10,716.80	\$ 20.00	\$ 6,800.00	\$ 30.00	\$ 10,200.00	\$ (3,400.00)
2.19	REMOVE 42" DIA CMP	LF	10	\$ 39.44	\$ 394.40	\$ 32.00	\$ 320.00	\$ 45.00	\$ 450.00	\$ (130.00)
2.20	REMOVE 78" DIA CMP	LF	105	\$ 95.62	\$ 10,040.10	\$ 37.00	\$ 3,885.00	\$ 60.00	\$ 6,300.00	\$ (2,415.00)
2.21	REMOVE AND REPLACE 24" DIA RCP	LF	12	\$ 204.43	\$ 2,453.16	\$ 210.00	\$ 2,520.00	\$ 140.00	\$ 1,680.00	\$ 840.00
2.22	REMOVE, RECONDITION AND REINSTALL 72" DIA GALVANIZED STEEL FLARED END SECTION	EA	1	\$ 3,940.65	\$ 3,940.65	\$ 1,700.00	\$ 1,700.00	\$ 3,250.00	\$ 3,250.00	\$ (1,550.00)
2.23	REMOVE AND SALVAGE TO OWNER 30" DIA FLAP GATE	EA	2	\$ 431.66	\$ 863.32	\$ 360.00	\$ 720.00	\$ 300.00	\$ 600.00	\$ 120.00
2.24	REMOVE AND SALVAGE TO OWNER 72" DIA FLAP GATE	EA	1	\$ 1,559.55	\$ 1,559.55	\$ 740.00	\$ 740.00	\$ 450.00	\$ 450.00	\$ 290.00
2.25	REMOVE TIMBER PILE PIPE SUPPORT	EA	2	\$ 763.07	\$ 1,526.14	\$ 851.00	\$ 1,702.00	\$ 800.00	\$ 1,600.00	\$ 102.00
2.26	REMOVE AND REPLACE 6" CONCRETE TRAIL	SF	1,444	\$ 14.62	\$ 21,111.28	\$ 7.00	\$ 10,108.00	\$ 8.00	\$ 11,552.00	\$ (1,444.00)
2.27	REMOVE AND REPLACE 5" CHAIN LINK FENCE	LF	75	\$ 51.20	\$ 3,840.00	\$ 30.50	\$ 2,287.50	\$ 30.00	\$ 2,250.00	\$ 37.50
2.28	REMOVE AND REPLACE 6" CHAIN LINK FENCE	LF	100	\$ 52.93	\$ 5,293.00	\$ 32.65	\$ 3,265.00	\$ 40.00	\$ 4,000.00	\$ (735.00)
2.29	GROUT TO FILL VOIDS	CY	32	\$ 1,310.83	\$ 41,946.56	\$ 575.00	\$ 18,400.00	\$ 160.00	\$ 5,120.00	\$ 13,280.00
2.30	RECONNECT FIELD TILE DRAIN	EA	1	\$ 1,843.22	\$ 1,843.22	\$ 1,006.00	\$ 1,006.00	\$ 1,000.00	\$ 1,000.00	\$ 6.00
2.31	TEMPORARY COFFER DAM	LS	0	\$ -	\$ -	\$ -	\$ -	\$ 2,000.00	\$ -	\$ -
2.32	24" OD HDPE PIPE (NON-JOINTED)	LF	404	\$ 145.90	\$ 58,943.60	\$ 90.00	\$ 36,360.00	\$ 125.00	\$ 50,500.00	\$ (14,140.00)
2.33	20" OD HDPE SLIPLINING WITH GROUT	LF	4	\$ 2,753.80	\$ 11,015.20	\$ 375.00	\$ 1,500.00	\$ 180.00	\$ 720.00	\$ 780.00
2.34	24" OD HDPE SLIPLINING WITH GROUT	LF	140	\$ 536.30	\$ 75,082.00	\$ 245.00	\$ 34,300.00	\$ 200.00	\$ 28,000.00	\$ 6,300.00
2.35	36" OD HDPE SLIPLINING WITH GROUT	LF	121	\$ 636.77	\$ 77,049.17	\$ 365.00	\$ 44,165.00	\$ 300.00	\$ 36,300.00	\$ 7,865.00
2.36	63" OD HDPE SLIPLINING WITH GROUT	LF	166	\$ 1,276.37	\$ 211,877.42	\$ 730.00	\$ 121,180.00	\$ 450.00	\$ 74,700.00	\$ 46,480.00
2.37	SNAP-TITE LARGE DIAMETER ID SIZE 60" HDPE SLIPLINING WITH GROUT	LF	81	\$ 1,313.30	\$ 106,377.30	\$ 665.00	\$ 53,865.00	\$ 450.00	\$ 36,450.00	\$ 17,415.00
2.38	42" DIA CMP	LF	38	\$ 120.26	\$ 4,569.88	\$ 155.00	\$ 5,890.00	\$ 150.00	\$ 5,700.00	\$ 190.00
2.39	72" DIA CMP	LF	8	\$ 306.06	\$ 2,448.48	\$ 367.00	\$ 2,936.00	\$ 275.00	\$ 2,200.00	\$ 736.00
2.40	78" DIA RCP	LF	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.41	78" DIA RCP PIPE BEND	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.42	24" CONCRETE COLLAR	EA	2	\$ 1,268.53	\$ 2,537.06	\$ 805.00	\$ 1,610.00	\$ 1,500.00	\$ 3,000.00	\$ (1,390.00)
2.43	78" CONCRETE COLLAR	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.44	24" CONCRETE JOINT BLOCK	EA	1	\$ 1,901.22	\$ 1,901.22	\$ 1,300.00	\$ 1,300.00	\$ 1,500.00	\$ 1,500.00	\$ (200.00)
2.45	42" CONCRETE JOINT BLOCK	EA	2	\$ 1,263.86	\$ 2,527.72	\$ 1,900.00	\$ 3,800.00	\$ 2,500.00	\$ 5,000.00	\$ (1,200.00)
2.46	78" CONCRETE JOINT BLOCK	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.47	78" CONCRETE THRUST BLOCK	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.48	HIGH STRENGTH INFLATABLE PIPE PLUG/PIPE BLADDER	EA	3	\$ 9,108.14	\$ 27,324.42	\$ 1,200.00	\$ 3,600.00	\$ 4,000.00	\$ 12,000.00	\$ (8,400.00)
2.49	FIBERGLASS RESIN PIPE PATCH	EA	3	\$ 6,154.15	\$ 18,462.45	\$ 925.00	\$ 2,775.00	\$ 16,000.00	\$ 48,000.00	\$ (45,225.00)
2.50	CONCRETE HEADWALL FOR BP-L15A B	LS	1	\$ 13,901.18	\$ 13,901.18	\$ 2,800.00	\$ 2,800.00	\$ 4,000.00	\$ 4,000.00	\$ (1,200.00)
2.51	ALUMINUM FLAP GATE FOR 24" OD HDPE	EA	2	\$ 6,140.85	\$ 12,281.70	\$ 2,750.00	\$ 5,500.00	\$ 2,900.00	\$ 4,000.00	\$ 1,500.00
2.52	42" DIA FLAP GATE	EA	1	\$ 11,500.39	\$ 11,500.39	\$ 2,450.00	\$ 2,450.00	\$ 2,400.00	\$ 2,400.00	\$ 50.00
2.53	72" DIA FLAP GATE	EA	2	\$ 19,871.99	\$ 39,743.98	\$ 5,410.00	\$ 10,820.00	\$ 6,000.00	\$ 12,000.00	\$ (1,180.00)
2.54	78" DIA FLAP GATE	EA	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2.55	SHEET PILE	SF	793	\$ 37.75	\$ 29,935.75	\$ 39.00	\$ 30,927.00	\$ 40.00	\$ 31,720.00	\$ (793.00)
2.56	SINGLE TIMBER PILE PIPE SUPPORT	EA	3	\$ 4,801.18	\$ 14,403.54	\$ 3,000.00	\$ 9,000.00	\$ 4,000.00	\$ 12,000.00	\$ (3,000.00)
2.57	DOUBLE TIMBER PILE PIPE SUPPORT	EA	2	\$ 10,373.78	\$ 20,747.56	\$ 6,800.00	\$ 13,600.00	\$ 7,000.00	\$ 14,000.00	\$ (400.00)
2.58	BP-L40 TIMBER PILE PIPE SUPPORTS	EA	1	\$ 18,937.38	\$ 18,937.38	\$ 10,350.00	\$ 10,350.00	\$ 16,000.00	\$ 16,000.00	\$ (5,650.00)
2.59	6" CRUSHED ROCK SURFACING	SY	35	\$ 112.65	\$ 3,942.75	\$ 10.00	\$ 350.00	\$ 20.00	\$ 700.00	\$ (350.00)
2.60	TYPE "C" RIPRAP	TN	918	\$ 87.77	\$ 80,572.86	\$ 61.60	\$ 56,548.80	\$ 60.00	\$ 55,080.00	\$ 1,468.80
2.61	TYPE "B" RIPRAP	TN	278	\$ 87.77	\$ 24,400.06	\$ 60.60	\$ 16,846.80	\$ 50.00	\$ 13,900.00	\$ 2,946.80

Basis of Bid 2 (City of Omaha)				VALLEY CORP		GRAHAM		ENGINEER'S ESTIMATE		LOW BID DEVIATION	
ITEM NO	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL		
2.62	6" BEDDING MATERIAL	SY	675	\$ 15.15	\$ 10,226.25	\$ 11.00	\$ 7,425.00	\$ 20.00	\$ 13,500.00	\$ (6,075.00)	
2.63	SEEDING	AC	4.6	\$ 3,077.08	\$ 14,154.57	\$ 2,720.00	\$ 12,512.00	\$ 3,000.00	\$ 13,800.00	\$ (1,288.00)	
2.64	WETLAND SEEDING	AC	0.08	\$ 4,923.32	\$ 393.87	\$ 4,350.00	\$ 348.00	\$ 6,000.00	\$ -80.00	\$ (132.00)	
2.65	EROSION CONTROL BLANKET	SY	1,380	\$ 2.65	\$ 3,657.00	\$ 1.40	\$ 1,932.00	\$ 3.00	\$ 4,140.00	\$ (2,208.00)	
2.66	72" DIA RCP	LF	104	\$ 562.10	\$ 58,458.40	\$ 648.00	\$ 67,392.00	\$ 375.00	\$ 39,000.00	\$ 28,392.00	
2.67	72" DIA RCP PIPE BEND	EA	1	\$ 3,164.53	\$ 3,164.53	\$ 4,700.00	\$ 4,700.00	\$ 3,500.00	\$ 3,500.00	\$ 1,200.00	
2.68	72" CONCRETE COLLAR	EA	1	\$ 3,439.36	\$ 3,439.36	\$ 4,115.00	\$ 4,115.00	\$ 8,000.00	\$ 8,000.00	\$ (3,885.00)	
2.69	72" CONCRETE JOINT BLOCK	EA	1	\$ 4,616.19	\$ 4,616.19	\$ 5,075.00	\$ 5,075.00	\$ 10,000.00	\$ 10,000.00	\$ (4,925.00)	
2.70	72" CONCRETE THRUST BLOCK	EA	1	\$ 5,347.23	\$ 5,347.23	\$ 2,600.00	\$ 2,600.00	\$ 5,000.00	\$ 5,000.00	\$ (2,400.00)	
				TOTAL OF ALL UNIT BID PRICES FOR BASIS OF BID 2		\$ 1,762,358.46	\$ 1,157,584.80	TOTAL		\$ 1,155,643.50	\$ 1,941.30
				TOTAL OF ALL UNIT BID PRICES FOR BASIS OF BID 1 & 2		\$ 3,859,294.34	\$ 3,146,227.15	TOTAL		\$ 2,572,336.80	\$ 573,890.35

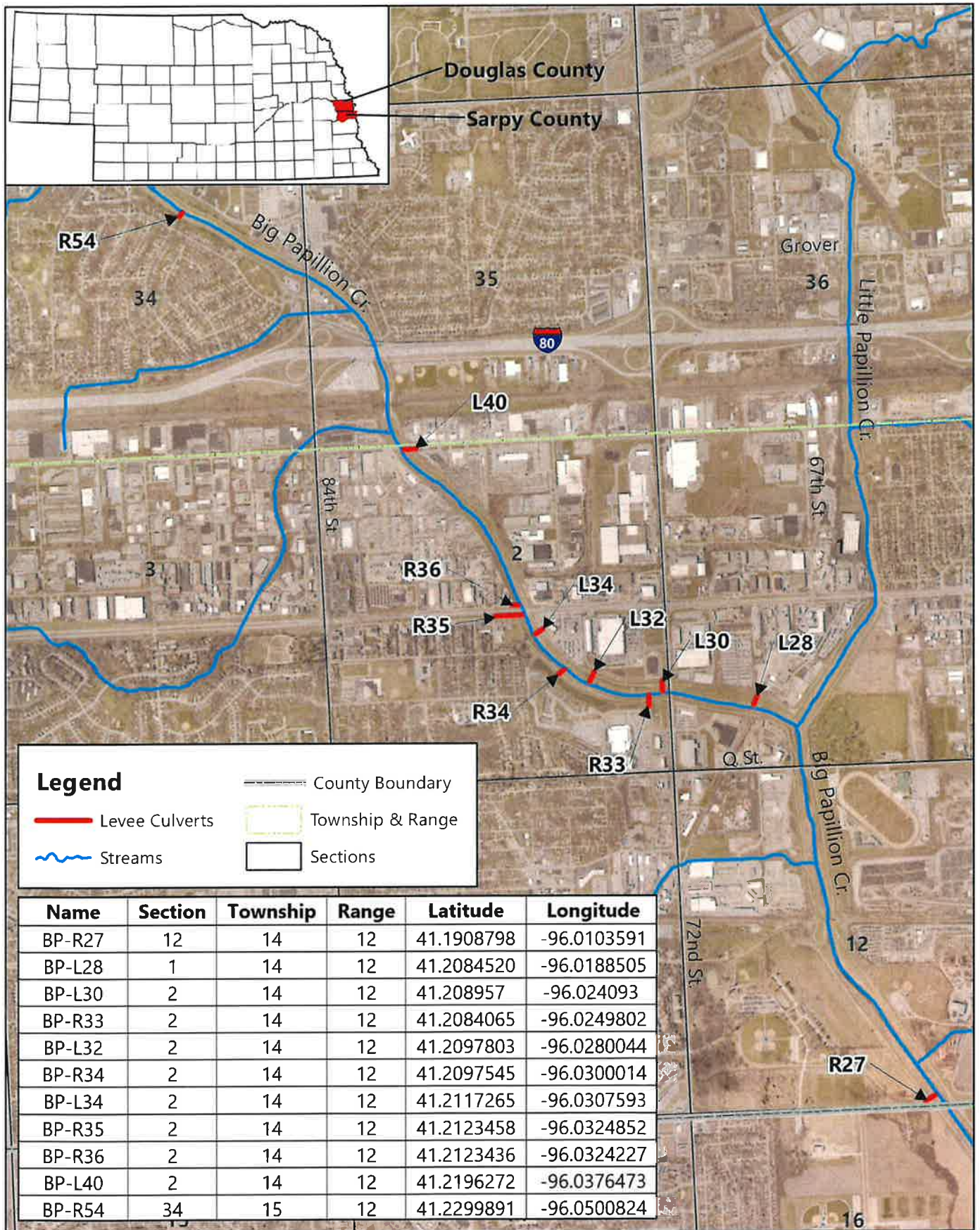
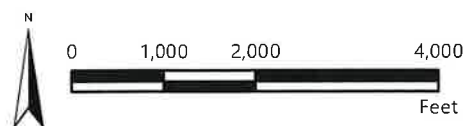


Figure 1. Douglas County Site Locations
 Papio-Missouri River NRD
 Big Papio Levee Culverts Phase II



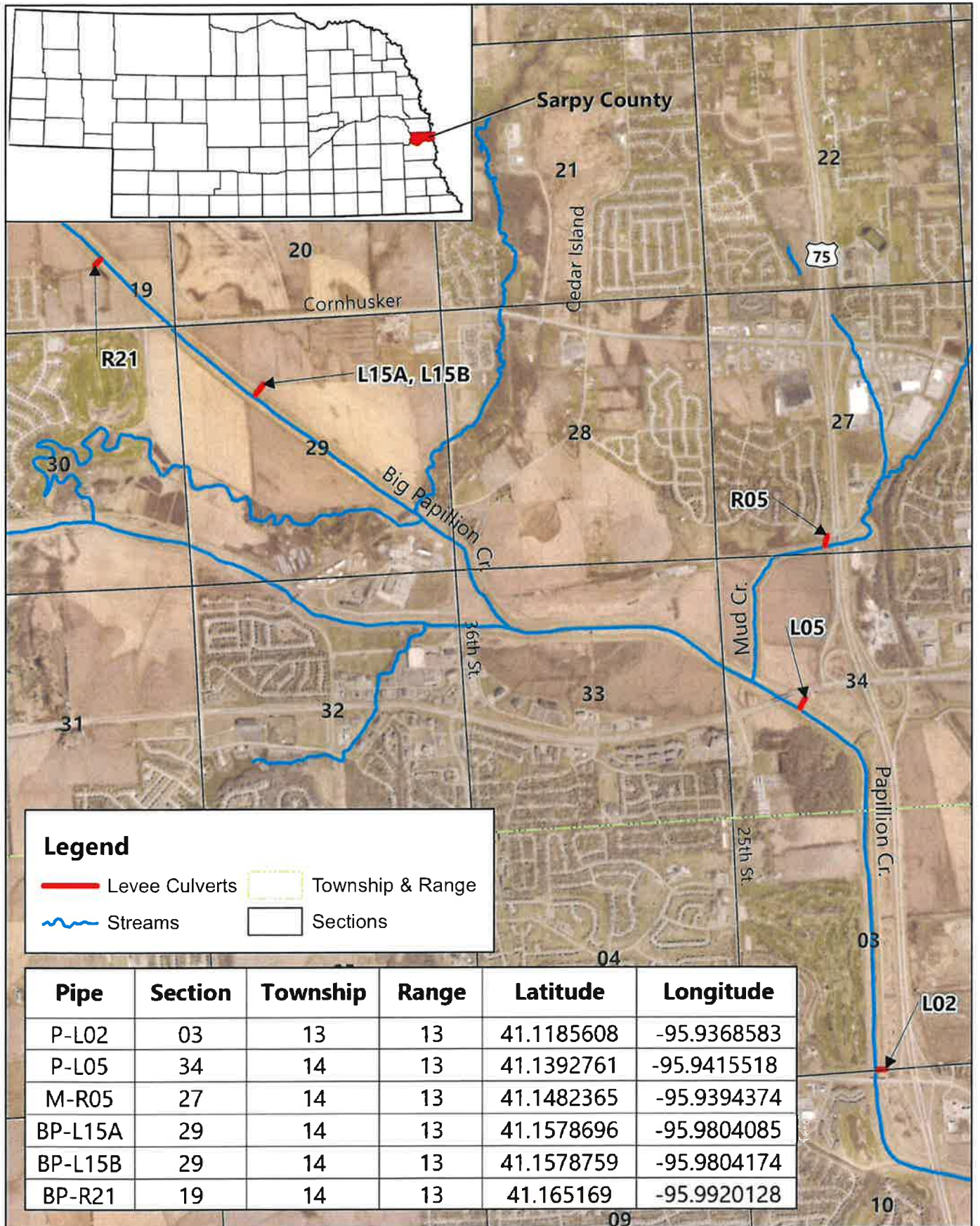


Figure 1. Sarpy County Site Locations
 Papio-Missouri River NRD
 Big Papio Levee Culverts Phase II

