

DATE December 16, 2019

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON RIVER BEND AND KING IRVING SEWER SEPARATION PHASE 2B; RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS CORELL CONTRACTOR, INC., GRANT S. CORELL, PRESIDENT, \$2,706,122.15

WHEREAS, on November 4, 2019, under Roll Call No. 19-1694, plans, specifications, form of contract documents, and Engineer's estimate of construction cost were filed with the City Clerk, for the construction of the following improvement:

River Bend and King Irving Sewer Separation Phase 2B, 07-2019-003

This improvement includes approximately 3,487 feet of 15-inch through 24-inch storm sewer in open cut construction, sanitary sewer, water main and paving, manholes, special structures, water main relocation, pavement removal, Portland Cement Concrete (PCC) curb and gutter, PCC pavement, Hot Mix Asphalt (HMA) pavement, traffic control, erosion control and miscellaneous associated work, including cleanup; all in accordance with the contract documents, including Plan File No. 608-001/117, located on Jefferson Avenue from 10th Street to 12th Street, on Washington Avenue from 11th Street to 12th Street, on Forest Avenue from 2nd Avenue to 3rd Street, on 3rd Street from Forest Avenue to Creighton Avenue, on Indiana Avenue from west of 2nd Avenue to 5th Street and on the alley between 2nd Avenue and 2nd Place north of Forest Avenue, in Des Moines, Iowa.

WHEREAS, notice of the hearing on the plans, specifications, form of contract documents, and Engineer's estimate of construction cost was published as required by law.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the hearing on the plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said improvement be closed; and that said plans, specifications, form of contract documents, and Engineer's estimate of construction cost are hereby approved as the plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said improvement.

BE IT FURTHER RESOLVED: That sealed bids for said improvement were submitted by the following bidders:

DATE December 16, 2019

Corell Contractor, Inc.	West Des Moines, IA Bid read under advisement
Synergy Contracting, LLC	Bondurant, IA
MPS Engineers, P.C. dba Kingston Services, P.C.	Des Moines, IA
Jasper Construction Services, Inc.	Newton, IA
OnTrack	Nevada, IA
The Underground Company, Ltd.	Carlisle, IA Bid read under advisement
Rognes Corp.	Ankeny, IA

which were received and opened at a public meeting presided over by the Engineer in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa at 11:00 a.m. on November 19, 2019. Said bids and the attached tabulation of bids for said improvement be and are hereby received and filed.

BE IT FURTHER RESOLVED: That the Des Moines City Engineer, as the Engineer, has determined that the lowest responsive, responsible bid for the construction of said improvement was submitted by Corell Contractor, Inc., Grant S. Corell, President, 1300 Lincoln Street, West Des Moines, IA, 50265 in the amount of \$2,706,122.15, and said bid be and the same is hereby accepted.

BE IT FURTHER RESOLVED: That the bid security of the unsuccessful bidders be and is hereby authorized and directed to be returned in accordance with the Instructions to Bidders.

BE IT FURTHER RESOLVED: That the Engineer is hereby directed to secure execution by the lowest responsible, responsive Bidder and its surety of the contract documents in the form heretofore approved by this Council; that the Engineer is directed to thereafter present said contract documents to this Council for approval and authorization to the Mayor to sign; and that no contract shall be deemed to exist between the City of Des Moines and said Bidder until said contract has been executed by the Bidder, and shall have been approved by this Council and executed by the Mayor and attested to by the City Clerk.

★ **Roll Call Number**

**Agenda Item Number**

69

DATE December 16, 2019

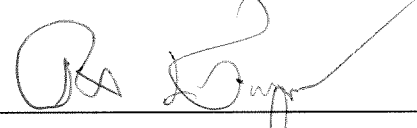
BE IT FURTHER RESOLVED: That the City Council hereby authorizes the necessary road closures for the Project.

(City Council Communication Number 19-549 attached.)

Moved by \_\_\_\_\_ to adopt.

FORM APPROVED:

FUNDS AVAILABLE

Kathleen Vanderpool  
Deputy City Attorney

Robert L. Fagen  
Des Moines Finance Director

**SLN** Funding Source: 2019-2020 CIP, Page Sanitary – 8, River Bend and King Irving Sewer Separation, SS138, Being: \$2,589,622.15 in SRF funding issued; and the remaining \$116,500 from Des Moines Water Works

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
BOESEN				
COLEMAN				
GATTO				
GRAY				
MANDELBAUM				
WESTERGAARD				
TOTAL				

MOTION CARRIED

APPROVED

\_\_\_\_\_  
Mayor

I, P. Kay Cmelik, City Clerk of said City Council, hereby certify that at a meeting of the City Council, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

\_\_\_\_\_  
City Clerk

TABULATED BY: C. Bouska  
CHECKED BY: *[Signature]*

APPROVED BY: *[Signature]*

**CONTRACTOR'S BID TABULATION**  
PROJECT: RIVER BEND AND KING IRVING SEWER SEPARATION PHASE 2B

-----ESTIMATE-----

ITEM	DESCRIPTION	QUANTITY	UNIT		MPS Engineers PC dba Kingston Services PC Des Moines, IA		Jasper Construction Services, Inc. Newton, IA		
			PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	
1	CLEARING AND GRUBBING	44	UNIT	\$350.00	\$15,400.00	\$350.00	\$15,400.00	\$350.00	\$15,400.00
2	TOPSOIL, OFF SITE	580	CY	\$50.00	\$29,000.00	\$50.00	\$29,000.00	\$50.00	\$29,000.00
3	EXCAVATION, CLASS 10	2300	CY	\$25.00	\$57,500.00	\$30.00	\$69,000.00	\$35.00	\$80,500.00
4	SUBGRADE PREPARATION, 6 IN. DEPTH	3550	SY	\$8.00	\$28,400.00	\$7.50	\$26,625.00	\$7.50	\$26,625.00
5	SUBGRADE PREPARATION, 12 IN. DEPTH	4743	SY	\$16.00	\$75,888.00	\$7.50	\$35,572.50	\$12.50	\$59,287.50
6	SUBGRADE TREATMENT, FLY ASH	1400	SY	\$25.00	\$35,000.00	\$16.00	\$22,400.00	\$15.00	\$21,000.00
7	SUBGRADE TREATMENT, GEOGRID TYPE 2 OR 3	3320	SY	\$9.00	\$29,880.00	\$5.00	\$16,600.00	\$4.50	\$14,940.00
8	SUBBASE, MODIFIED	8293	SY	\$20.00	\$165,860.00	\$15.00	\$124,395.00	\$20.00	\$165,860.00
9	REPLACEMENT OF UNSUITABLE MATERIAL	3440	TONS	\$60.00	\$206,400.00	\$30.00	\$103,200.00	\$15.00	\$51,600.00
10	SANITARY SEWER, GRAVITY MAIN, TRENCHED, DI, 12"	46	LF	\$400.00	\$18,400.00	\$550.00	\$25,300.00	\$290.00	\$13,340.00
11	SANITARY SEWER, GRAVITY MAIN, TRENCHED, DI, 14"	10	LF	\$450.00	\$4,500.00	\$1,000.00	\$10,000.00	\$750.00	\$7,500.00
12	REPAIR SANITARY SEWER	5	EA	\$7,000.00	\$35,000.00	\$4,850.00	\$24,250.00	\$5,400.00	\$27,000.00
13	REMOVAL OF SANITARY SEWER, 12"	46	LF	\$50.00	\$2,300.00	\$90.00	\$4,140.00	\$48.00	\$2,208.00
14	REMOVAL OF SANITARY SEWER, 15"	10	LF	\$50.00	\$500.00	\$300.00	\$3,000.00	\$52.00	\$520.00
15	STORM SEWER, TRENCHED, RCP, CL3, 15"	1683	LF	\$150.00	\$252,450.00	\$133.00	\$223,839.00	\$78.00	\$131,274.00
16	STORM SEWER, TRENCHED, GASKETED RCP, CL3, 15"	331	LF	\$175.00	\$57,925.00	\$182.00	\$60,242.00	\$157.00	\$51,967.00
17	STORM SEWER, TRENCHED, RCP, CL5, 15"	548	LF	\$175.00	\$95,900.00	\$160.00	\$87,680.00	\$80.00	\$43,840.00
18	STORM SEWER, TRENCHED, GASKETED RCP, CL5, 15"	65	LF	\$200.00	\$13,000.00	\$125.00	\$8,125.00	\$98.00	\$6,370.00
19	STORM SEWER, TRENCHED, RCP, CL3, 18"	41	LF	\$200.00	\$8,200.00	\$135.00	\$5,535.00	\$100.00	\$4,100.00
20	STORM SEWER, TRENCHED, RCP, CL3, 24"	790	LF	\$230.00	\$181,700.00	\$157.00	\$124,030.00	\$105.00	\$82,950.00
21	STORM SEWER, TRENCHED, DI, CL52, 14"	29	LF	\$450.00	\$13,050.00	\$225.00	\$6,525.00	\$135.00	\$3,915.00
22	REMOVAL OF STORM SEWER, VCP OR RCP, 6" TO 15"	265	LF	\$25.00	\$6,625.00	\$80.00	\$21,200.00	\$36.00	\$9,540.00
23	STORM SEWER ABANDONMENT, FILLED PLUG	12	LF	\$80.00	\$960.00	\$125.00	\$1,500.00	\$180.00	\$2,160.00
24	MANHOLE ADJUSTMENT, PCC DIAMOND	8	EA	\$2,000.00	\$16,000.00	\$5,000.00	\$40,000.00	\$3,700.00	\$29,600.00
25	SUBDRAIN, TYPE 1, 6"	600	LF	\$20.00	\$12,000.00	\$23.00	\$13,800.00	\$35.00	\$21,000.00
26	SUBDRAIN OUTLETS AND CONNECTIONS, TYPE 1, 6"	2	EA	\$500.00	\$1,000.00	\$1,000.00	\$2,000.00	\$750.00	\$1,500.00
27	MANHOLE, SW 401, 48"	3	EA	\$5,000.00	\$15,000.00	\$4,200.00	\$12,600.00	\$4,900.00	\$14,700.00
28	MANHOLE, SW 401, 60"	1	EA	\$7,500.00	\$7,500.00	\$9,300.00	\$9,300.00	\$9,400.00	\$9,400.00
29	INTAKE, SW 501	19	EA	\$6,500.00	\$123,500.00	\$3,400.00	\$64,600.00	\$8,000.00	\$152,000.00
30	INTAKE, SW 501 MOD	1	EA	\$7,000.00	\$7,000.00	\$6,000.00	\$6,000.00	\$9,600.00	\$9,600.00
31	INTAKE, SW 502, 48"	6	EA	\$6,500.00	\$39,000.00	\$4,500.00	\$27,000.00	\$5,000.00	\$30,000.00
32	INTAKE, SW 502, 60"	1	EA	\$7,500.00	\$7,500.00	\$8,500.00	\$8,500.00	\$8,200.00	\$8,200.00
33	INTAKE, SW 505	3	EA	\$8,500.00	\$25,500.00	\$5,500.00	\$16,500.00	\$10,600.00	\$31,800.00
34	INTAKE, SW 507	3	EA	\$8,500.00	\$25,500.00	\$7,000.00	\$21,000.00	\$11,100.00	\$33,300.00
35	INTAKE, SW 511	1	EA	\$9,500.00	\$9,500.00	\$5,000.00	\$5,000.00	\$7,800.00	\$7,800.00
36	INTAKE, SW 511 MOD	2	EA	\$10,500.00	\$21,000.00	\$5,000.00	\$10,000.00	\$8,000.00	\$16,000.00
37	CONNECT TO TRENCH DRAIN	1	EA	\$2,500.00	\$2,500.00	\$4,500.00	\$4,500.00	\$4,200.00	\$4,200.00
38	CONNECTION TO EXISTING INTAKE/MANHOLE	4	EA	\$3,000.00	\$12,000.00	\$3,600.00	\$14,400.00	\$4,200.00	\$16,800.00
39	REMOVE MANHOLE	2	EA	\$1,000.00	\$2,000.00	\$1,750.00	\$3,500.00	\$1,000.00	\$2,000.00
40	REMOVE INTAKE	14	EA	\$1,000.00	\$14,000.00	\$1,750.00	\$24,500.00	\$750.00	\$10,500.00
41	PAVEMENT, PCC, 6"	25	SY	\$110.00	\$2,750.00	\$115.00	\$2,875.00	\$140.00	\$3,500.00
42	PAVEMENT, PCC, 8"	153	SY	\$135.00	\$20,655.00	\$126.00	\$19,278.00	\$140.00	\$21,420.00

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ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT		
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	
43	CURB AND GUTTER, PCC, 6", 2'-6" WIDE	5435 LF	\$50.00	\$271,750.00	\$23.25	\$126,363.75	\$22.00	\$119,570.00	\$50.00	\$271,750.00	
44	CURB AND GUTTER, PCC, 8", 2'-6" WIDE	15 LF	\$80.00	\$1,200.00	\$23.00	\$345.00	\$112.00	\$1,680.00	\$175.00	\$2,625.00	
45	PAVEMENT, HMA LT, BASE COURSE	1335 TONS	\$120.00	\$160,200.00	\$110.00	\$146,850.00	\$105.00	\$140,175.00	\$122.00	\$162,870.00	
46	PAVEMENT, HMA LT, SURFACE COURSE	1220 TONS	\$125.00	\$152,500.00	\$112.00	\$136,640.00	\$107.00	\$130,540.00	\$106.00	\$129,320.00	
47	REMOVAL OF SIDEWALK	876 SY	\$13.00	\$11,388.00	\$10.00	\$8,760.00	\$15.00	\$13,140.00	\$20.00	\$17,520.00	
48	REMOVAL OF DRIVEWAY	378 SY	\$15.00	\$5,670.00	\$12.00	\$4,536.00	\$12.00	\$4,536.00	\$20.00	\$7,560.00	
49	SIDEWALK, PCC, 4" THICK	533 SY	\$55.00	\$29,315.00	\$57.00	\$30,381.00	\$68.00	\$36,244.00	\$90.00	\$47,970.00	
50	SIDEWALK, PCC, 6" THICK	288 SY	\$65.00	\$18,720.00	\$69.00	\$19,872.00	\$112.00	\$32,256.00	\$95.00	\$27,360.00	
51	DETECTABLE WARNING	502 SF	\$50.00	\$25,100.00	\$52.00	\$26,104.00	\$48.00	\$24,096.00	\$65.00	\$32,630.00	
52	DRIVEWAY, PCC, 6" THICK	377 SY	\$80.00	\$30,160.00	\$86.00	\$32,422.00	\$82.00	\$30,914.00	\$98.00	\$36,946.00	
53	DRIVEWAY, PCC, 7" THICK	22 SY	\$85.00	\$1,870.00	\$92.00	\$2,024.00	\$94.00	\$2,068.00	\$100.00	\$2,200.00	
54	DRIVEWAY, GRANULAR	13 TON	\$50.00	\$650.00	\$50.00	\$650.00	\$50.00	\$650.00	\$40.00	\$520.00	
55	PAVEMENT SCARIFICATION	3340 SY	\$25.00	\$83,500.00	\$9.70	\$32,398.00	\$9.25	\$30,895.00	\$8.00	\$26,720.00	
56	PAVEMENT REMOVAL	7920 SY	\$15.00	\$118,800.00	\$16.50	\$130,680.00	\$15.00	\$118,800.00	\$22.00	\$174,240.00	
57	REMOVE AND REINSTALL SIGN	34 EA	\$100.00	\$3,400.00	\$165.00	\$5,610.00	\$150.00	\$5,100.00	\$150.00	\$5,100.00	
58	TRAFFIC CONTROL	1 LS	\$50,000.00	\$50,000.00	\$96,000.00	\$96,000.00	\$35,000.00	\$35,000.00	\$75,000.00	\$75,000.00	
59	HYDRAULIC SEEDING, FERTILIZING AND MULCHING	1 AC	\$15,000.00	\$15,000.00	\$9,570.00	\$9,570.00	\$8,500.00	\$8,500.00	\$16,200.00	\$16,200.00	
60	STORMWATER POLLUTION PREVENTION	1 LS	\$10,000.00	\$10,000.00	\$11,000.00	\$11,000.00	\$12,500.00	\$12,500.00	\$18,500.00	\$18,500.00	
61	FILTER SOCK, 9" DIA	1612 LF	\$3.00	\$4,836.00	\$5.50	\$8,866.00	\$5.00	\$8,060.00	\$3.00	\$4,836.00	
62	FILTER SOCK REMOVAL	1612 LF	\$2.00	\$3,224.00	\$2.20	\$3,546.40	\$0.50	\$806.00	\$0.50	\$806.00	
63	INLET PROTECTION DEVICE	36 EA	\$200.00	\$7,200.00	\$205.00	\$7,380.00	\$185.00	\$6,660.00	\$175.00	\$6,300.00	
64	CHAIN LINK FENCE, 48", SALVAGE, REPLACE	30 LF	\$70.00	\$2,100.00	\$42.50	\$1,275.00	\$70.00	\$2,100.00	\$40.00	\$1,200.00	
65	MODULAR BLOCK RETAINING WALL, SALVAGE, RESTACK	155 SF	\$80.00	\$12,400.00	\$75.00	\$11,625.00	\$32.00	\$4,960.00	\$40.00	\$6,200.00	
66	LIMESTONE RETAINING WALL, SALVAGE, RESTACK	81 SF	\$80.00	\$6,480.00	\$75.00	\$6,075.00	\$32.00	\$2,592.00	\$40.00	\$3,240.00	
67	RECYCLED CONCRETE RETAINING WALL, SALVAGE, RESTACK	56 SF	\$80.00	\$4,480.00	\$75.00	\$4,200.00	\$32.00	\$1,792.00	\$40.00	\$2,240.00	
68	COMBINED CONCRETE SIDEWALK AND RETAINING WALL	7 CY	\$2,000.00	\$14,000.00	\$1,725.00	\$12,075.00	\$1,875.00	\$13,125.00	\$1,750.00	\$12,250.00	
69	CONSTRUCTION STAKING	1 LS	\$35,000.00	\$35,000.00	\$27,500.00	\$27,500.00	\$42,206.00	\$42,206.00	\$59,500.00	\$59,500.00	
70	MOBILIZATION	1 LS	\$731,614.00	\$731,614.00	\$242,200.00	\$242,200.00	\$717,610.00	\$717,610.00	\$660,000.00	\$660,000.00	
71	TREE PROTECTION FENCE, 4' HIGH	90 LF	\$5.00	\$450.00	\$8.25	\$742.50	\$12.00	\$1,080.00	\$3.50	\$315.00	
72	TREE TRUNK PROTECTION	9 EA	\$350.00	\$3,150.00	\$330.00	\$2,970.00	\$200.00	\$1,800.00	\$75.00	\$675.00	
73	TREE TRIMMING	1 EA	\$2,000.00	\$2,000.00	\$8,250.00	\$8,250.00	\$2,000.00	\$2,000.00	\$1,500.00	\$1,500.00	
74	MAINTENANCE OF SOLID WASTE COLLECTION	1 LS	\$7,500.00	\$7,500.00	\$25,000.00	\$25,000.00	\$5,500.00	\$5,500.00	\$25,000.00	\$25,000.00	
75	TEMPORARY MAILBOXES	7 EA	\$500.00	\$3,500.00	\$550.00	\$3,850.00	\$400.00	\$2,800.00	\$500.00	\$3,500.00	
76	8" TYPE 3 WATER MAIN ALTERATION	2 EA	\$15,000.00	\$30,000.00	\$11,500.00	\$23,000.00	\$15,000.00	\$30,000.00	\$13,000.00	\$26,000.00	
77	6" REMOVE AND REPLACE HYDRANT ASSEMBLY	1 EA	\$16,000.00	\$16,000.00	\$11,600.00	\$11,600.00	\$15,000.00	\$15,000.00	\$11,200.00	\$11,200.00	
78	8" REMOVE AND REPLACE HYDRANT ASSEMBLY	5 EA	\$17,500.00	\$87,500.00	\$11,900.00	\$59,500.00	\$15,000.00	\$75,000.00	\$11,600.00	\$58,000.00	
79	8" REMOVE AND RELOCATE HYDRANT ASSEMBLY	1 EA	\$16,000.00	\$16,000.00	\$19,000.00	\$19,000.00	\$21,000.00	\$21,000.00	\$14,400.00	\$14,400.00	
80	1" WATER SERVICE PARTIAL REPLACEMENT (OPPOSITE SIDE)	14 EA	\$5,000.00	\$70,000.00	\$5,500.00	\$77,000.00	\$4,200.00	\$58,800.00	\$4,200.00	\$58,800.00	
81	FOUNDATION ROCK	20 TON	\$80.00	\$1,600.00	\$45.00	\$900.00	\$60.00	\$1,200.00	\$65.00	\$1,300.00	
82	MANUFACTURED SAND	50 TON	\$80.00	\$4,000.00	\$50.00	\$2,500.00	\$45.00	\$2,250.00	\$40.00	\$2,000.00	
TOTAL CONSTRUCTION COST					\$3,750,000.00		\$2,706,122.15		\$3,277,661.00		\$3,288,509.50
PERCENT OF ENGINEER'S ESTIMATE							-27.84%		-12.60%		-12.31%
							Low				

Bid read under advisement.  
Attachment 4 missing  
signature.

TABULATED BY: C. Bouska APPROVED BY \_\_\_\_\_  
CHECKED BY: *[Signature]*

**CONTRACTOR'S BID TABULATION**  
PROJECT: RIVER BEND AND KING IRVING SEWER SEPARATION PHASE 2B

ESTIMATE

ITEM	DESCRIPTION	QUANTITY	UNIT		ON Track Construction, LLC Nevada, IA		The Underground Co., Ltd. Carlisle, IA		Synergy Contracting, LLC Bondurant, IA		
			PRICE	AMOUNT	BID SECURITY 10% Bid Bond	BID PRICE	BID SECURITY 10% Bid Bond	BID PRICE	BID SECURITY 10% Bid Bond	BID PRICE	
			UNIT	PRICE	AMOUNT	UNIT	PRICE	AMOUNT	UNIT	PRICE	AMOUNT
1	CLEARING AND GRUBBING	44	UNIT	\$350.00	\$15,400.00	\$81.00	\$3,564.00	\$250.00	\$11,000.00	\$490.00	\$21,560.00
2	TOPSOIL, OFF SITE	580	CY	\$50.00	\$29,000.00	\$61.00	\$35,380.00	\$50.00	\$29,000.00	\$56.00	\$32,480.00
3	EXCAVATION, CLASS 10	2300	CY	\$25.00	\$57,500.00	\$17.20	\$39,560.00	\$39.00	\$89,700.00	\$42.00	\$96,600.00
4	SUBGRADE PREPARATION, 6 IN. DEPTH	3550	SY	\$8.00	\$28,400.00	\$6.10	\$21,655.00	\$7.00	\$24,850.00	\$14.00	\$49,700.00
5	SUBGRADE PREPARATION, 12 IN. DEPTH	4743	SY	\$16.00	\$75,888.00	\$12.10	\$57,390.30	\$15.00	\$71,145.00	\$21.00	\$99,603.00
6	SUBGRADE TREATMENT, FLY ASH	1400	SY	\$25.00	\$35,000.00	\$10.10	\$14,140.00	\$25.00	\$35,000.00	\$42.00	\$58,800.00
7	SUBGRADE TREATMENT, GEOGRID TYPE 2 OR 3	3320	SY	\$9.00	\$29,880.00	\$5.60	\$18,592.00	\$10.00	\$33,200.00	\$14.00	\$46,480.00
8	SUBBASE, MODIFIED	8293	SY	\$20.00	\$165,860.00	\$14.00	\$116,102.00	\$18.00	\$149,274.00	\$28.00	\$232,204.00
9	REPLACEMENT OF UNSUITABLE MATERIAL	3440	TONS	\$60.00	\$206,400.00	\$47.70	\$164,088.00	\$34.00	\$116,960.00	\$56.00	\$192,640.00
10	SANITARY SEWER, GRAVITY MAIN, TRENCHED, DI, 12"	46	LF	\$400.00	\$18,400.00	\$336.00	\$15,456.00	\$352.00	\$16,192.00	\$392.00	\$18,032.00
11	SANITARY SEWER, GRAVITY MAIN, TRENCHED, DI, 14"	10	LF	\$450.00	\$4,500.00	\$688.00	\$6,880.00	\$1,257.00	\$12,570.00	\$490.00	\$4,900.00
12	REPAIR SANITARY SEWER	5	EA	\$7,000.00	\$35,000.00	\$6,155.00	\$30,775.00	\$6,400.00	\$32,000.00	\$8,400.00	\$42,000.00
13	REMOVAL OF SANITARY SEWER, 12"	46	LF	\$50.00	\$2,300.00	\$82.00	\$3,772.00	\$40.00	\$1,840.00	\$140.00	\$6,440.00
14	REMOVAL OF SANITARY SEWER, 15"	10	LF	\$50.00	\$500.00	\$128.00	\$1,280.00	\$55.00	\$550.00	\$140.00	\$1,400.00
15	STORM SEWER, TRENCHED, RCP, CL3, 15"	1683	LF	\$150.00	\$252,450.00	\$203.00	\$341,649.00	\$148.00	\$249,084.00	\$140.00	\$235,620.00
16	STORM SEWER, TRENCHED, GASKETED RCP, CL3, 15"	331	LF	\$175.00	\$57,925.00	\$210.00	\$69,510.00	\$151.00	\$49,981.00	\$161.00	\$53,291.00
17	STORM SEWER, TRENCHED, RCP, CL5, 15"	548	LF	\$175.00	\$95,900.00	\$205.00	\$112,340.00	\$150.00	\$82,200.00	\$147.00	\$80,556.00
18	STORM SEWER, TRENCHED, GASKETED RCP, CL5, 15"	65	LF	\$200.00	\$13,000.00	\$211.00	\$13,715.00	\$155.00	\$10,075.00	\$161.00	\$10,465.00
19	STORM SEWER, TRENCHED, RCP, CL3, 18"	41	LF	\$200.00	\$8,200.00	\$236.00	\$9,676.00	\$190.00	\$7,790.00	\$154.00	\$6,314.00
20	STORM SEWER, TRENCHED, RCP, CL3, 24"	790	LF	\$230.00	\$181,700.00	\$302.00	\$238,580.00	\$210.00	\$165,900.00	\$161.00	\$127,190.00
21	STORM SEWER, TRENCHED, DI, CL52, 14"	29	LF	\$450.00	\$13,050.00	\$226.00	\$6,554.00	\$250.00	\$7,250.00	\$273.00	\$7,917.00
22	REMOVAL OF STORM SEWER, VCP OR RCP, 6" TO 15"	265	LF	\$25.00	\$6,625.00	\$25.00	\$6,625.00	\$25.00	\$6,625.00	\$28.00	\$7,420.00
23	STORM SEWER ABANDONMENT, FILLED PLUG	12	LF	\$80.00	\$960.00	\$445.00	\$5,340.00	\$150.00	\$1,800.00	\$140.00	\$1,680.00
24	MANHOLE ADJUSTMENT, PCC DIAMOND	8	EA	\$2,000.00	\$16,000.00	\$5,000.00	\$40,000.00	\$3,350.00	\$26,800.00	\$2,100.00	\$16,800.00
25	SUBDRAIN, TYPE 1, 6"	600	LF	\$20.00	\$12,000.00	\$28.00	\$16,800.00	\$31.00	\$18,600.00	\$42.00	\$25,200.00
26	SUBDRAIN OUTLETS AND CONNECTIONS, TYPE 1, 6"	2	EA	\$500.00	\$1,000.00	\$750.00	\$1,500.00	\$150.00	\$300.00	\$560.00	\$1,120.00
27	MANHOLE, SW 401, 48"	3	EA	\$5,000.00	\$15,000.00	\$5,178.00	\$15,534.00	\$6,900.00	\$20,700.00	\$7,000.00	\$21,000.00
28	MANHOLE, SW 401, 60"	1	EA	\$7,500.00	\$7,500.00	\$9,335.00	\$9,335.00	\$10,200.00	\$10,200.00	\$11,200.00	\$11,200.00
29	INTAKE, SW 501	19	EA	\$6,500.00	\$123,500.00	\$7,175.00	\$136,325.00	\$4,200.00	\$79,800.00	\$9,100.00	\$172,900.00
30	INTAKE, SW 501 MOD	1	EA	\$7,000.00	\$7,000.00	\$8,770.00	\$8,770.00	\$6,000.00	\$6,000.00	\$9,100.00	\$9,100.00
31	INTAKE, SW 502, 48"	6	EA	\$6,500.00	\$39,000.00	\$5,275.00	\$31,650.00	\$7,700.00	\$46,200.00	\$3,500.00	\$21,000.00
32	INTAKE, SW 502, 60"	1	EA	\$7,500.00	\$7,500.00	\$9,010.00	\$9,010.00	\$10,900.00	\$10,900.00	\$6,300.00	\$6,300.00
33	INTAKE, SW 505	3	EA	\$8,500.00	\$25,500.00	\$8,900.00	\$26,700.00	\$6,300.00	\$18,900.00	\$10,500.00	\$31,500.00
34	INTAKE, SW 507	3	EA	\$8,500.00	\$25,500.00	\$10,975.00	\$32,925.00	\$7,700.00	\$23,100.00	\$10,920.00	\$32,760.00
35	INTAKE, SW 511	1	EA	\$9,500.00	\$9,500.00	\$10,660.00	\$10,660.00	\$4,500.00	\$4,500.00	\$12,880.00	\$12,880.00
36	INTAKE, SW 511 MOD	2	EA	\$10,500.00	\$21,000.00	\$11,970.00	\$23,940.00	\$5,100.00	\$10,200.00	\$14,700.00	\$29,400.00
37	CONNECT TO TRENCH DRAIN	1	EA	\$2,500.00	\$2,500.00	\$2,775.00	\$2,775.00	\$2,300.00	\$2,300.00	\$1,680.00	\$1,680.00
38	CONNECTION TO EXISTING INTAKE/MANHOLE	4	EA	\$3,000.00	\$12,000.00	\$2,775.00	\$11,100.00	\$2,800.00	\$11,200.00	\$4,200.00	\$16,800.00
39	REMOVE MANHOLE	2	EA	\$1,000.00	\$2,000.00	\$1,900.00	\$3,800.00	\$1,200.00	\$2,400.00	\$700.00	\$1,400.00
40	REMOVE INTAKE	14	EA	\$1,000.00	\$14,000.00	\$1,060.00	\$14,840.00	\$900.00	\$12,600.00	\$700.00	\$9,800.00
41	PAVEMENT, PCC, 6"	25	SY	\$110.00	\$2,750.00	\$207.10	\$5,177.50	\$72.00	\$1,800.00	\$252.00	\$6,300.00
42	PAVEMENT, PCC, 8"	153	SY	\$135.00	\$20,655.00	\$217.20	\$33,231.60	\$91.00	\$13,923.00	\$280.00	\$42,840.00

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
43	CURB AND GUTTER, PCC, 6", 2'-6" WIDE	5435 LF	\$50.00	\$271,750.00	\$31.30	\$170,115.50	\$28.00	\$152,180.00	\$27.50	\$149,462.50
44	CURB AND GUTTER, PCC, 8", 2'-6" WIDE	15 LF	\$80.00	\$1,200.00	\$183.80	\$2,757.00	\$190.00	\$2,850.00	\$220.00	\$3,300.00
45	PAVEMENT, HMA LT, BASE COURSE	1335 TONS	\$120.00	\$160,200.00	\$111.10	\$148,318.50	\$123.00	\$164,205.00	\$121.00	\$161,535.00
46	PAVEMENT, HMA LT, SURFACE COURSE	1220 TONS	\$125.00	\$152,500.00	\$126.30	\$154,086.00	\$106.00	\$129,320.00	\$104.50	\$127,490.00
47	REMOVAL OF SIDEWALK	876 SY	\$13.00	\$11,388.00	\$11.00	\$9,636.00	\$13.00	\$11,388.00	\$14.00	\$12,264.00
48	REMOVAL OF DRIVEWAY	378 SY	\$15.00	\$5,670.00	\$13.00	\$4,914.00	\$15.00	\$5,670.00	\$14.00	\$5,292.00
49	SIDEWALK, PCC, 4" THICK	533 SY	\$55.00	\$29,315.00	\$151.50	\$80,749.50	\$77.00	\$41,041.00	\$63.00	\$33,579.00
50	SIDEWALK, PCC, 6" THICK	288 SY	\$65.00	\$18,720.00	\$176.80	\$50,918.40	\$108.00	\$31,104.00	\$77.00	\$22,176.00
51	DETECTABLE WARNING	502 SF	\$50.00	\$25,100.00	\$55.80	\$28,011.60	\$83.00	\$41,666.00	\$63.00	\$31,626.00
52	DRIVEWAY, PCC, 6" THICK	377 SY	\$80.00	\$30,160.00	\$136.40	\$51,422.80	\$72.00	\$27,144.00	\$91.00	\$34,307.00
53	DRIVEWAY, PCC, 7" THICK	22 SY	\$85.00	\$1,870.00	\$232.30	\$5,110.60	\$83.00	\$1,826.00	\$140.00	\$3,080.00
54	DRIVEWAY, GRANULAR	13 TON	\$50.00	\$650.00	\$31.00	\$403.00	\$50.00	\$650.00	\$84.00	\$1,092.00
55	PAVEMENT SCARIFICATION	3340 SY	\$25.00	\$83,500.00	\$8.40	\$28,056.00	\$9.00	\$30,060.00	\$14.00	\$46,760.00
56	PAVEMENT REMOVAL	7920 SY	\$15.00	\$118,800.00	\$18.00	\$142,560.00	\$15.00	\$118,800.00	\$28.00	\$221,760.00
57	REMOVE AND REINSTALL SIGN	34 EA	\$100.00	\$3,400.00	\$151.50	\$5,151.00	\$200.00	\$6,800.00	\$210.00	\$7,140.00
58	TRAFFIC CONTROL	1 LS	\$50,000.00	\$50,000.00	\$45,198.00	\$45,198.00	\$50,000.00	\$50,000.00	\$49,000.00	\$49,000.00
59	HYDRAULIC SEEDING, FERTILIZING AND MULCHING	1 AC	\$15,000.00	\$15,000.00	\$8,787.00	\$8,787.00	\$9,600.00	\$9,600.00	\$7,000.00	\$7,000.00
60	STORMWATER POLLUTION PREVENTION	1 LS	\$10,000.00	\$10,000.00	\$10,100.00	\$10,100.00	\$11,000.00	\$11,000.00	\$7,000.00	\$7,000.00
61	FILTER SOCK, 9" DIA	1612 LF	\$3.00	\$4,836.00	\$5.10	\$8,221.20	\$6.00	\$9,672.00	\$7.00	\$11,284.00
62	FILTER SOCK REMOVAL	1612 LF	\$2.00	\$3,224.00	\$2.00	\$3,224.00	\$3.00	\$4,836.00	\$1.00	\$1,612.00
63	INLET PROTECTION DEVICE	36 EA	\$200.00	\$7,200.00	\$187.00	\$6,732.00	\$204.00	\$7,344.00	\$280.00	\$10,080.00
64	CHAIN LINK FENCE, 48", SALVAGE, REPLACE	30 LF	\$70.00	\$2,100.00	\$101.00	\$3,030.00	\$100.00	\$3,000.00	\$140.00	\$4,200.00
65	MODULAR BLOCK RETAINING WALL, SALVAGE, RESTACK	155 SF	\$80.00	\$12,400.00	\$89.00	\$13,795.00	\$90.00	\$13,950.00	\$84.00	\$13,020.00
66	LIMESTONE RETAINING WALL, SALVAGE, RESTACK	81 SF	\$80.00	\$6,480.00	\$96.00	\$7,776.00	\$90.00	\$7,290.00	\$63.00	\$5,103.00
67	RECYCLED CONCRETE RETAINING WALL, SALVAGE, RESTACK	56 SF	\$80.00	\$4,480.00	\$72.00	\$4,032.00	\$90.00	\$5,040.00	\$70.00	\$3,920.00
68	COMBINED CONCRETE SIDEWALK AND RETAINING WALL	7 CY	\$2,000.00	\$14,000.00	\$2,600.00	\$18,200.00	\$3,000.00	\$21,000.00	\$1,400.00	\$9,800.00
69	CONSTRUCTION STAKING	1 LS	\$35,000.00	\$35,000.00	\$43,430.00	\$43,430.00	\$32,000.00	\$32,000.00	\$42,000.00	\$42,000.00
70	MOBILIZATION	1 LS	\$731,614.00	\$731,614.00	\$361,534.50	\$361,534.50	\$750,000.00	\$750,000.00	\$602,000.00	\$602,000.00
71	TREE PROTECTION FENCE, 4' HIGH	90 LF	\$5.00	\$450.00	\$7.60	\$684.00	\$9.00	\$810.00	\$14.00	\$1,260.00
72	TREE TRUNK PROTECTION	9 EA	\$350.00	\$3,150.00	\$303.00	\$2,727.00	\$400.00	\$3,600.00	\$700.00	\$6,300.00
73	TREE TRIMMING	1 EA	\$2,000.00	\$2,000.00	\$6,717.00	\$6,717.00	\$2,000.00	\$2,000.00	\$1,400.00	\$1,400.00
74	MAINTENANCE OF SOLID WASTE COLLECTION	1 LS	\$7,500.00	\$7,500.00	\$6,987.00	\$6,987.00	\$9,000.00	\$9,000.00	\$14,000.00	\$14,000.00
75	TEMPORARY MAILBOXES	7 EA	\$500.00	\$3,500.00	\$505.00	\$3,535.00	\$500.00	\$3,500.00	\$280.00	\$1,960.00
76	8" TYPE 3 WATER MAIN ALTERATION	2 EA	\$15,000.00	\$30,000.00	\$23,446.00	\$46,892.00	\$10,500.00	\$21,000.00	\$18,200.00	\$36,400.00
77	6" REMOVE AND REPLACE HYDRANT ASSEMBLY	1 EA	\$16,000.00	\$16,000.00	\$12,775.00	\$12,775.00	\$15,200.00	\$15,200.00	\$19,740.00	\$19,740.00
78	8" REMOVE AND REPLACE HYDRANT ASSEMBLY	5 EA	\$17,500.00	\$87,500.00	\$17,113.00	\$85,565.00	\$15,800.00	\$79,000.00	\$19,600.00	\$98,000.00
79	8" REMOVE AND RELOCATE HYDRANT ASSEMBLY	1 EA	\$16,000.00	\$16,000.00	\$19,877.00	\$19,877.00	\$17,600.00	\$17,600.00	\$23,100.00	\$23,100.00
80	1" WATER SERVICE PARTIAL REPLACEMENT (OPPOSITE SIDE)	14 EA	\$5,000.00	\$70,000.00	\$5,165.00	\$72,310.00	\$5,700.00	\$79,800.00	\$3,220.00	\$45,080.00
81	FOUNDATION ROCK	20 TON	\$80.00	\$1,600.00	\$82.00	\$1,640.00	\$75.00	\$1,500.00	\$140.00	\$2,800.00
82	MANUFACTURED SAND	50 TON	\$80.00	\$4,000.00	\$70.00	\$3,500.00	\$60.00	\$3,000.00	\$112.00	\$5,600.00
TOTAL CONSTRUCTION COST				\$3,750,000.00	\$3,446,175.00	\$3,449,855.00	\$3,785,794.50			
PERCENT OF ENGINEER'S ESTIMATE					-8.10%	-8.00%	+0.95%			

Bid read under advisement.  
Attachment 4 pages were  
not from proposal, but  
correct pages from  
alternative source.

69

TABULATED BY: C. Bouska APPROVED BY \_\_\_\_\_  
CHECKED BY: 

**CONTRACTOR'S BID TABULATION**  
PROJECT: RIVER BEND AND KING IRVING SEWER SEPARATION PHASE 2B

ESTIMATE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT
1	CLEARING AND GRUBBING	44 UNIT	\$350.00	\$15,400.00	\$500.00	\$22,000.00
2	TOPSOIL, OFF SITE	580 CY	\$50.00	\$29,000.00	\$65.00	\$37,700.00
3	EXCAVATION, CLASS 10	2300 CY	\$25.00	\$57,500.00	\$60.00	\$138,000.00
4	SUBGRADE PREPARATION, 6 IN. DEPTH	3550 SY	\$8.00	\$28,400.00	\$7.00	\$24,850.00
5	SUBGRADE PREPARATION, 12 IN. DEPTH	4743 SY	\$16.00	\$75,888.00	\$16.00	\$75,888.00
6	SUBGRADE TREATMENT, FLY ASH	1400 SY	\$25.00	\$35,000.00	\$10.00	\$14,000.00
7	SUBGRADE TREATMENT, GEOGRID TYPE 2 OR 3	3320 SY	\$9.00	\$29,880.00	\$5.00	\$16,600.00
8	SUBBASE, MODIFIED	8293 SY	\$20.00	\$165,860.00	\$15.00	\$124,395.00
9	REPLACEMENT OF UNSUITABLE MATERIAL	3440 TONS	\$60.00	\$206,400.00	\$55.00	\$189,200.00
10	SANITARY SEWER, GRAVITY MAIN, TRENCHED, DI, 12"	46 LF	\$400.00	\$18,400.00	\$750.00	\$34,500.00
11	SANITARY SEWER, GRAVITY MAIN, TRENCHED, DI, 14"	10 LF	\$450.00	\$4,500.00	\$1,200.00	\$12,000.00
12	REPAIR SANITARY SEWER	5 EA	\$7,000.00	\$35,000.00	\$7,800.00	\$39,000.00
13	REMOVAL OF SANITARY SEWER, 12"	46 LF	\$50.00	\$2,300.00	\$65.00	\$2,990.00
14	REMOVAL OF SANITARY SEWER, 15"	10 LF	\$50.00	\$500.00	\$65.00	\$650.00
15	STORM SEWER, TRENCHED, RCP, CL3, 15"	1683 LF	\$150.00	\$252,450.00	\$325.00	\$546,975.00
16	STORM SEWER, TRENCHED, GASKETED RCP, CL3, 15"	331 LF	\$175.00	\$57,925.00	\$326.00	\$107,906.00
17	STORM SEWER, TRENCHED, RCP, CL5, 15"	548 LF	\$175.00	\$95,900.00	\$375.00	\$205,500.00
18	STORM SEWER, TRENCHED, GASKETED RCP, CL5, 15"	65 LF	\$200.00	\$13,000.00	\$376.00	\$24,440.00
19	STORM SEWER, TRENCHED, RCP, CL3, 18"	41 LF	\$200.00	\$8,200.00	\$335.00	\$13,735.00
20	STORM SEWER, TRENCHED, RCP, CL3, 24"	790 LF	\$230.00	\$181,700.00	\$355.00	\$280,450.00
21	STORM SEWER, TRENCHED, DI, CL52, 14"	29 LF	\$450.00	\$13,050.00	\$500.00	\$14,500.00
22	REMOVAL OF STORM SEWER, VCP OR RCP, 6" TO 15"	265 LF	\$25.00	\$6,625.00	\$75.00	\$19,875.00
23	STORM SEWER ABANDONMENT, FILLED PLUG	12 LF	\$80.00	\$960.00	\$75.00	\$900.00
24	MANHOLE ADJUSTMENT, PCC DIAMOND	8 EA	\$2,000.00	\$16,000.00	\$2,500.00	\$20,000.00
25	SUBDRAIN, TYPE 1, 6"	600 LF	\$20.00	\$12,000.00	\$35.00	\$21,000.00
26	SUBDRAIN OUTLETS AND CONNECTIONS, TYPE 1, 6"	2 EA	\$500.00	\$1,000.00	\$650.00	\$1,300.00
27	MANHOLE, SW 401, 48"	3 EA	\$5,000.00	\$15,000.00	\$7,500.00	\$22,500.00
28	MANHOLE, SW 401, 60"	1 EA	\$7,500.00	\$7,500.00	\$12,500.00	\$12,500.00
29	INTAKE, SW 501	19 EA	\$6,500.00	\$123,500.00	\$10,500.00	\$199,500.00
30	INTAKE, SW 501 MOD	1 EA	\$7,000.00	\$7,000.00	\$17,000.00	\$17,000.00
31	INTAKE, SW 502, 48"	6 EA	\$6,500.00	\$39,000.00	\$7,500.00	\$45,000.00
32	INTAKE, SW 502, 60"	1 EA	\$7,500.00	\$7,500.00	\$13,500.00	\$13,500.00
33	INTAKE, SW 505	3 EA	\$8,500.00	\$25,500.00	\$13,500.00	\$40,500.00
34	INTAKE, SW 507	3 EA	\$8,500.00	\$25,500.00	\$14,000.00	\$42,000.00
35	INTAKE, SW 511	1 EA	\$9,500.00	\$9,500.00	\$15,000.00	\$15,000.00
36	INTAKE, SW 511 MOD	2 EA	\$10,500.00	\$21,000.00	\$17,500.00	\$35,000.00
37	CONNECT TO TRENCH DRAIN	1 EA	\$2,500.00	\$2,500.00	\$1,200.00	\$1,200.00
38	CONNECTION TO EXISTING INTAKE/MANHOLE	4 EA	\$3,000.00	\$12,000.00	\$4,500.00	\$18,000.00
39	REMOVE MANHOLE	2 EA	\$1,000.00	\$2,000.00	\$1,250.00	\$2,500.00
40	REMOVE INTAKE	14 EA	\$1,000.00	\$14,000.00	\$1,250.00	\$17,500.00
41	PAVEMENT, PCC, 6"	25 SY	\$110.00	\$2,750.00	\$175.00	\$4,375.00
42	PAVEMENT, PCC, 8"	153 SY	\$135.00	\$20,655.00	\$185.00	\$28,305.00

Rognes Corporation  
Ankeny, IA

BID SECURITY  
10% Bid Bond

BID PRICE



ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT
43	CURB AND GUTTER, PCC, 6", 2'-6" WIDE	5435 LF	\$50.00	\$271,750.00	\$22.00	\$119,570.00
44	CURB AND GUTTER, PCC, 8", 2'-6" WIDE	15 LF	\$80.00	\$1,200.00	\$22.00	\$330.00
45	PAVEMENT, HMA LT, BASE COURSE	1335 TONS	\$120.00	\$160,200.00	\$105.00	\$140,175.00
46	PAVEMENT, HMA LT, SURFACE COURSE	1220 TONS	\$125.00	\$152,500.00	\$107.00	\$130,540.00
47	REMOVAL OF SIDEWALK	876 SY	\$13.00	\$11,388.00	\$12.00	\$10,512.00
48	REMOVAL OF DRIVEWAY	378 SY	\$15.00	\$5,670.00	\$12.00	\$4,536.00
49	SIDEWALK, PCC, 4" THICK	533 SY	\$55.00	\$29,315.00	\$70.00	\$37,310.00
50	SIDEWALK, PCC, 6" THICK	288 SY	\$65.00	\$18,720.00	\$110.00	\$31,680.00
51	DETECTABLE WARNING	502 SF	\$50.00	\$25,100.00	\$55.00	\$27,610.00
52	DRIVEWAY, PCC, 6" THICK	377 SY	\$80.00	\$30,160.00	\$110.00	\$41,470.00
53	DRIVEWAY, PCC, 7" THICK	22 SY	\$85.00	\$1,870.00	\$175.00	\$3,850.00
54	DRIVEWAY, GRANULAR	13 TON	\$50.00	\$650.00	\$34.00	\$442.00
55	PAVEMENT SCARIFICATION	3340 SY	\$25.00	\$83,500.00	\$9.25	\$30,895.00
56	PAVEMENT REMOVAL	7920 SY	\$15.00	\$118,800.00	\$15.00	\$118,800.00
57	REMOVE AND REINSTALL SIGN	34 EA	\$100.00	\$3,400.00	\$150.00	\$5,100.00
58	TRAFFIC CONTROL	1 LS	\$50,000.00	\$50,000.00	\$35,000.00	\$35,000.00
59	HYDRAULIC SEEDING, FERTILIZING AND MULCHING	1 AC	\$15,000.00	\$15,000.00	\$7,500.00	\$7,500.00
60	STORMWATER POLLUTION PREVENTION	1 LS	\$10,000.00	\$10,000.00	\$4,500.00	\$4,500.00
61	FILTER SOCK, 9" DIA	1612 LF	\$3.00	\$4,836.00	\$3.00	\$4,836.00
62	FILTER SOCK REMOVAL	1612 LF	\$2.00	\$3,224.00	\$0.50	\$806.00
63	INLET PROTECTION DEVICE	36 EA	\$200.00	\$7,200.00	\$145.00	\$5,220.00
64	CHAIN LINK FENCE, 48"; SALVAGE, REPLACE	30 LF	\$70.00	\$2,100.00	\$75.00	\$2,250.00
65	MODULAR BLOCK RETAINING WALL, SALVAGE, RESTACK	155 SF	\$80.00	\$12,400.00	\$55.00	\$8,525.00
66	LIMESTONE RETAINING WALL, SALVAGE, RESTACK	81 SF	\$80.00	\$6,480.00	\$55.00	\$4,455.00
67	RECYCLED CONCRETE RETAINING WALL, SALVAGE, RESTACK	56 SF	\$80.00	\$4,480.00	\$50.00	\$2,800.00
68	COMBINED CONCRETE SIDEWALK AND RETAINING WALL	7 CY	\$2,000.00	\$14,000.00	\$2,800.00	\$19,600.00
69	CONSTRUCTION STAKING	1 LS	\$35,000.00	\$35,000.00	\$30,000.00	\$30,000.00
70	MOBILIZATION	1 LS	\$731,614.00	\$731,614.00	\$975,000.00	\$975,000.00
71	TREE PROTECTION FENCE, 4' HIGH	90 LF	\$5.00	\$450.00	\$3.50	\$315.00
72	TREE TRUNK PROTECTION	9 EA	\$350.00	\$3,150.00	\$425.00	\$3,825.00
73	TREE TRIMMING	1 EA	\$2,000.00	\$2,000.00	\$4,000.00	\$4,000.00
74	MAINTENANCE OF SOLID WASTE COLLECTION	1 LS	\$7,500.00	\$7,500.00	\$10,000.00	\$10,000.00
75	TEMPORARY MAILBOXES	7 EA	\$500.00	\$3,500.00	\$500.00	\$3,500.00
76	8" TYPE 3 WATER MAIN ALTERATION	2 EA	\$15,000.00	\$30,000.00	\$22,000.00	\$44,000.00
77	6" REMOVE AND REPLACE HYDRANT ASSEMBLY	1 EA	\$16,000.00	\$16,000.00	\$20,000.00	\$20,000.00
78	8" REMOVE AND REPLACE HYDRANT ASSEMBLY	5 EA	\$17,500.00	\$87,500.00	\$21,000.00	\$105,000.00
79	8" REMOVE AND RELOCATE HYDRANT ASSEMBLY	1 EA	\$16,000.00	\$16,000.00	\$24,000.00	\$24,000.00
80	1" WATER SERVICE PARTIAL REPLACEMENT (OPPOSITE SIDE)	14 EA	\$5,000.00	\$70,000.00	\$6,000.00	\$84,000.00
81	FOUNDATION ROCK	20 TON	\$80.00	\$1,600.00	\$50.00	\$1,000.00
82	MANUFACTURED SAND	50 TON	\$80.00	\$4,000.00	\$80.00	\$4,000.00
TOTAL CONSTRUCTION COST				\$3,750,000.00		\$4,609,686.00
PERCENT OF ENGINEER'S ESTIMATE						+22.92%