

DATE March 19, 2018

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON RIVER BEND AND KING IRVING SEWER SEPARATION PHASE 1; RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS PROGRESSIVE STRUCTURES, LLC, TRAVIS AUGUSTYN, PARTNER, \$4,683,948.80

WHEREAS, on February 19, 2018, under Roll Call No. 18-0247, 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 1, 07-2018-002

The improvement includes construction of storm sewer, sanitary sewer, water main and paving, including all labor, materials and equipment necessary for excavation and backfill of approximately 7,838 feet of 15-inch through 60-inch storm sewer in open cut, 139 feet of 24-inch through 60-inch storm sewer in trenchless construction, manholes, special structures, sanitary sewer, water main relocation, pavement removal, Portland Cement Concrete (PCC) curb and gutter, 6-inch thick Hot Mix Asphalt (HMA) pavement, permeable pavers and green infrastructure elements, traffic control, erosion control and miscellaneous associated work, including cleanup; all in accordance with the contract documents, including Plan File No. 590/006-179, located along Clark Street from 2nd Avenue to 12th Street and along Franklin Avenue from 2nd Avenue to 10th Street, 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:

- | | |
|-------------------------------------|---------------|
| Progressive Structures, LLC | Elkader, IA |
| S. J. Louis Construction, Inc. | Rockville, MN |
| Minturn, Inc. | Brooklyn, IA |
| Raccoon Valley Contractors, LLC. | Waukee, IA |
| Rognes Corp. dba Rognes Corporation | Ankeny, IA |

which were received and opened at a public meeting presided over by the Engineer in the City Offices, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa at 11:00 a.m. on March 6, 2018. Said bids and the attached tabulation of bids for said improvement be and are hereby received and filed.



Roll Call Number

Agenda Item Number

69

DATE March 19, 2018

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 Progressive Structures, LLC, Travis Augustyn, Partner, 24412 Hwy. 13, Elkader, IA, 52043 in the amount of \$4,683,948.80, 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.

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

(City Council Communication Number 18-138 attached.)

Moved by _____ to adopt.

FORM APPROVED:

FUNDS AVAILABLE

Kathleen Vanderpool
Deputy City Attorney

Robert L. Fagen
Des Moines Finance Director

~~AF~~ Funding Source: 2018-2019 CIP, Page Sanitary – 8, River Bend and King Irving Sewer Separation, SS138, Being: \$4,533,902.80 in SRF funding to be issued; and the remaining \$150,046.00 from Des Moines Water Works

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

MOTION CARRIED APPROVED

I, Diane Rauh, 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.

Mayor

City Clerk

APPROVED BY *R. De Groot*
CHECKED BY *Michael Vaughan*

CONTRACTOR'S BID TABULATION
PROJECT: River Bend and King Irving Sewer Separation - Phase 1

ESTIMATE

ITEM	DESCRIPTION	QUANTITY	UNIT	ESTIMATE		Progressive Structures Elkader, IA		SJ Louis Construction Rockville, MN		Minturn, Inc. Brooklyn, IA		Raccoon Valley Contractors Waukee, IA		Rognes Corp Ankeny, IA	
				PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1	CLEARING AND GRUBBING	564.0	UNIT	\$25.00	\$14,100.00	\$88.50	\$49,914.00	\$100.00	\$56,400.00	\$45.00	\$25,380.00	\$90.00	\$50,760.00	\$90.00	\$50,760.00
2	TOPSOIL, OFF SITE	1825.0	CY	\$15.00	\$27,375.00	\$34.70	\$63,327.50	\$20.00	\$36,500.00	\$41.00	\$74,825.00	\$12.00	\$21,900.00	\$19.50	\$35,537.50
3	EXCAVATION, CLASS 10	800.0	CY	\$22.00	\$17,600.00	\$27.70	\$22,160.00	\$20.00	\$16,000.00	\$40.00	\$32,000.00	\$25.00	\$20,000.00	\$38.00	\$30,400.00
4	SUBGRADE PREPARATION, 6 IN. DEPTH	20800.0	SY	\$2.00	\$41,600.00	\$5.20	\$108,160.00	\$2.00	\$41,600.00	\$3.15	\$65,520.00	\$6.00	\$124,800.00	\$6.50	\$135,200.00
5	SUBGRADE PREPARATION, FLYASH	1000.0	SY	\$5.00	\$5,000.00	\$12.50	\$12,500.00	\$15.00	\$15,000.00	\$15.72	\$15,720.00	\$6.00	\$6,000.00	\$9.26	\$9,260.00
6	SUBGRADE PREPARATION, GEOGRID	1000.0	SY	\$6.00	\$6,000.00	\$6.20	\$6,200.00	\$3.00	\$3,000.00	\$5.96	\$5,960.00	\$6.00	\$6,000.00	\$9.26	\$9,260.00
7	SUBBASE, MODIFIED	20800.0	SY	\$3.00	\$62,400.00	\$10.80	\$224,640.00	\$10.00	\$208,000.00	\$10.00	\$208,000.00	\$12.00	\$249,600.00	\$13.00	\$270,400.00
8	SANITARY SEWER, GRAVITY MAIN, TRENCHED, DI, 12"	278.0	LF	\$100.00	\$27,800.00	\$125.00	\$34,750.00	\$125.00	\$34,750.00	\$160.00	\$44,480.00	\$270.00	\$75,060.00	\$210.00	\$58,380.00
9	SANITARY SEWER, GRAVITY MAIN, TRENCHED, DI, 18"	20.0	LF	\$200.00	\$4,000.00	\$620.00	\$12,400.00	\$600.00	\$12,000.00	\$640.00	\$12,800.00	\$1,100.00	\$22,000.00	\$675.00	\$13,500.00
10	SANITARY SEWER SERVICE RELOCATION	30.0	EA	\$750.00	\$22,500.00	\$2,300.00	\$75,000.00	\$5,000.00	\$180,000.00	\$1,700.00	\$51,000.00	\$6,000.00	\$180,000.00	\$1,200.00	\$36,000.00
11	REPAIR SANITARY SEWER	10.0	EA	\$500.00	\$5,000.00	\$1,320.00	\$13,200.00	\$2,000.00	\$20,000.00	\$2,200.00	\$22,000.00	\$3,200.00	\$32,000.00	\$700.00	\$7,000.00
12	REMOVAL OF SANITARY SEWER, 8" OR 10"	31.0	LF	\$20.00	\$620.00	\$14.00	\$434.00	\$35.00	\$1,085.00	\$50.00	\$1,560.00	\$12.00	\$372.00	\$25.00	\$775.00
13	REMOVAL OF SANITARY SEWER, 12"	255.0	LF	\$20.00	\$5,100.00	\$14.00	\$3,570.00	\$15.00	\$3,825.00	\$39.00	\$9,945.00	\$12.00	\$3,060.00	\$28.00	\$6,375.00
14	REMOVAL OF SANITARY SEWER, 18"	20.0	LF	\$20.00	\$400.00	\$14.00	\$280.00	\$18.00	\$360.00	\$44.00	\$880.00	\$12.00	\$240.00	\$25.00	\$500.00
15	STORM SEWER, TRENCHED, RCP, CL3, 15"	415.0	LF	\$75.00	\$31,125.00	\$90.00	\$37,350.00	\$55.00	\$22,775.00	\$120.00	\$49,800.00	\$150.00	\$62,250.00	\$165.00	\$68,475.00
16	STORM SEWER, TRENCHED, GASKETED RCP, CL3, 15"	238.0	LF	\$78.00	\$18,564.00	\$105.00	\$24,990.00	\$90.00	\$21,420.00	\$118.00	\$28,084.00	\$165.00	\$39,270.00	\$169.00	\$39,984.00
17	STORM SEWER, TRENCHED, RCP, CL3, 18"	681.0	LF	\$90.00	\$61,290.00	\$80.00	\$54,480.00	\$82.50	\$56,222.50	\$119.00	\$81,039.00	\$185.00	\$125,985.00	\$175.00	\$119,175.00
18	STORM SEWER, TRENCHED, GASKETED RCP, CL3, 18"	31.0	LF	\$95.00	\$2,945.00	\$76.00	\$2,356.00	\$95.00	\$2,945.00	\$126.00	\$3,906.00	\$190.00	\$5,890.00	\$178.00	\$5,518.00
19	STORM SEWER, TRENCHED, RCP, CL3, 24"	2865.0	LF	\$115.00	\$330,475.00	\$92.00	\$263,160.00	\$110.00	\$316,500.00	\$150.00	\$427,500.00	\$189.00	\$543,810.00	\$180.00	\$514,800.00
20	STORM SEWER, TRENCHED, GASKETED RCP, CL3, 24"	47.0	LF	\$125.00	\$5,875.00	\$86.00	\$4,042.00	\$130.00	\$6,110.00	\$133.00	\$6,251.00	\$192.00	\$9,024.00	\$182.00	\$8,554.00
21	STORM SEWER, TRENCHED, RCP, CL3, 30"	151.0	LF	\$150.00	\$22,650.00	\$112.00	\$16,912.00	\$135.00	\$20,385.00	\$168.00	\$25,368.00	\$290.00	\$43,790.00	\$200.00	\$30,200.00
22	STORM SEWER, TRENCHED, RCP, CL3, 36"	1804.0	LF	\$170.00	\$306,680.00	\$124.00	\$223,696.00	\$135.00	\$243,570.00	\$206.00	\$370,440.00	\$290.00	\$522,900.00	\$235.00	\$422,440.00
23	STORM SEWER, TRENCHED, GASKETED RCP, CL3, 36"	40.0	LF	\$175.00	\$7,000.00	\$126.00	\$5,040.00	\$135.00	\$5,400.00	\$204.00	\$8,160.00	\$300.00	\$12,000.00	\$238.00	\$9,520.00
24	STORM SEWER, TRENCHED, RCP, CL3, 42"	250.0	LF	\$275.00	\$68,750.00	\$144.00	\$36,000.00	\$155.00	\$38,750.00	\$240.00	\$60,000.00	\$290.00	\$72,500.00	\$325.00	\$81,250.00
25	STORM SEWER, TRENCHED, RCP, CL3, 48"	570.0	LF	\$325.00	\$185,250.00	\$166.00	\$94,820.00	\$190.00	\$108,300.00	\$250.00	\$142,500.00	\$300.00	\$171,000.00	\$425.00	\$242,250.00
26	STORM SEWER, TRENCHED, GASKETED, RCP, CL3, 48"	92.0	LF	\$335.00	\$30,820.00	\$170.00	\$15,640.00	\$290.00	\$26,680.00	\$270.00	\$24,840.00	\$400.00	\$36,800.00	\$385.00	\$35,420.00
27	STORM SEWER, TRENCHED, RCP, CL3, 54"	350.0	LF	\$400.00	\$140,000.00	\$190.00	\$66,700.00	\$300.00	\$99,000.00	\$300.00	\$99,000.00	\$420.00	\$147,000.00	\$675.00	\$236,250.00
28	STORM SEWER, TRENCHED, RCP, CL3, 54"	31.0	LF	\$225.00	\$6,975.00	\$220.00	\$6,820.00	\$175.00	\$5,425.00	\$225.00	\$6,975.00	\$350.00	\$12,250.00	\$405.00	\$12,555.00
29	STORM SEWER, TRENCHED, RCP, CL C-75, 60"	530.0	LF	\$600.00	\$318,000.00	\$370.00	\$196,100.00	\$360.00	\$190,800.00	\$500.00	\$265,000.00	\$525.00	\$277,500.00	\$785.00	\$413,050.00
30	STORM SEWER, TRENCHED, DI, CL52, 14"	50.0	LF	\$80.00	\$4,000.00	\$120.00	\$6,000.00	\$130.00	\$6,500.00	\$140.00	\$7,000.00	\$250.00	\$12,500.00	\$165.00	\$8,250.00
31	STORM SEWER, TRENCHED, DI, CL52, 16"	67.0	LF	\$90.00	\$6,030.00	\$115.00	\$7,705.00	\$150.00	\$10,050.00	\$135.00	\$9,045.00	\$260.00	\$17,420.00	\$175.00	\$11,725.00
32	STORM SEWER, TRENCHED, DI, CL52, 24"	31.0	LF	\$130.00	\$4,030.00	\$500.00	\$15,500.00	\$555.00	\$17,205.00	\$650.00	\$20,150.00	\$275.00	\$8,525.00	\$190.00	\$5,890.00
33	STORM SEWER, TRENCHED, RESTRAINED JOINT DI, CL52, 24"	315.0	LF	\$200.00	\$63,000.00	\$205.00	\$64,575.00	\$250.00	\$78,750.00	\$210.00	\$66,150.00	\$325.00	\$102,375.00	\$245.00	\$77,175.00
34	STORM SEWER, TRENCHLESS, RCP, JACKING PIPE, 24"	88.0	LF	\$600.00	\$52,800.00	\$1,000.00	\$88,000.00	\$1,100.00	\$96,800.00	\$1,980.00	\$174,240.00	\$1,200.00	\$108,000.00	\$900.00	\$81,000.00
35	STORM SEWER, TRENCHLESS, GASKETED, RCP, CL5, 42"	71.0	LF	\$1,300.00	\$92,300.00	\$1,800.00	\$127,800.00	\$1,800.00	\$126,000.00	\$2,400.00	\$170,400.00	\$1,600.00	\$112,000.00	\$1,800.00	\$135,000.00
36	REMOVAL OF STORM SEWER, VCP OR RCP, 12"	411.0	LF	\$10.00	\$4,110.00	\$10.00	\$4,110.00	\$20.00	\$8,220.00	\$26.00	\$10,686.00	\$22.00	\$9,042.00	\$25.00	\$10,275.00
37	STORM SEWER ABANDONMENT, FILLED PLUG	107.0	LF	\$15.00	\$1,605.00	\$15.00	\$1,605.00	\$35.00	\$3,745.00	\$26.00	\$2,782.00	\$22.00	\$2,354.00	\$25.00	\$2,675.00
38	MANHOLE, SW 301, 48"	4.0	EA	\$7,500.00	\$30,000.00	\$5,000.00	\$20,000.00	\$4,500.00	\$18,000.00	\$4,600.00	\$18,400.00	\$4,500.00	\$18,000.00	\$4,900.00	\$19,600.00
39	MANHOLE, SW 401, 48"	10.0	EA	\$4,000.00	\$40,000.00	\$3,000.00	\$30,000.00	\$4,000.00	\$40,000.00	\$2,800.00	\$28,000.00	\$4,500.00	\$45,000.00	\$4,600.00	\$46,000.00
40	MANHOLE, SW 401, 60"	3.0	EA	\$5,000.00	\$15,000.00	\$4,400.00	\$13,200.00	\$5,000.00	\$15,000.00	\$5,700.00	\$17,100.00	\$5,800.00	\$17,400.00	\$8,000.00	\$24,000.00
41	MANHOLE, SW 401, 72"	1.0	EA	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$9,000.00	\$9,000.00	\$6,500.00	\$6,500.00	\$11,750.00	\$11,750.00
42	MANHOLE, SW 401, 84"	8.0	EA	\$7,000.00	\$56,000.00	\$7,500.00	\$60,000.00	\$8,100.00	\$64,800.00	\$10,000.00	\$80,000.00	\$9,000.00	\$72,000.00	\$12,750.00	\$102,000.00
43	INTAKE, SW 501	4.0	EA	\$5,000.00	\$20,000.00	\$5,000.00	\$20,000.00	\$6,500.00	\$26,000.00	\$4,300.00	\$17,200.00	\$4,000.00	\$16,000.00	\$6,000.00	\$24,000.00

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ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
44	INTAKE, SW 502, 48"	4.0 EA	\$5,000.00	\$20,000.00	\$3,500.00	\$14,000.00	\$4,000.00	\$16,000.00	\$3,800.00	\$15,200.00	\$3,800.00	\$15,200.00
45	INTAKE, SW 502, 60"	1.0 EA	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00
46	INTAKE, SW 502, 72"	5.0 EA	\$8,000.00	\$40,000.00	\$8,000.00	\$40,000.00	\$8,000.00	\$40,000.00	\$8,000.00	\$40,000.00	\$8,000.00	\$40,000.00
47	INTAKE, SW 502 MOD, 72"	1.0 EA	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00
48	INTAKE, SW 502, 96"	2.0 EA	\$12,000.00	\$24,000.00	\$12,000.00	\$24,000.00	\$12,000.00	\$24,000.00	\$12,000.00	\$24,000.00	\$12,000.00	\$24,000.00
49	INTAKE, SW 505	37.0 EA	\$222,000.00	\$8,214,000.00	\$222,000.00	\$8,214,000.00	\$222,000.00	\$8,214,000.00	\$222,000.00	\$8,214,000.00	\$222,000.00	\$8,214,000.00
50	INTAKE, SW 505 MOD	5.0 EA	\$6,000.00	\$30,000.00	\$6,000.00	\$30,000.00	\$6,000.00	\$30,000.00	\$6,000.00	\$30,000.00	\$6,000.00	\$30,000.00
51	INTAKE, SW 505	1.0 EA	\$18,000.00	\$18,000.00	\$18,000.00	\$18,000.00	\$18,000.00	\$18,000.00	\$18,000.00	\$18,000.00	\$18,000.00	\$18,000.00
52	INTAKE, SW 506	3.0 EA	\$6,000.00	\$18,000.00	\$6,000.00	\$18,000.00	\$6,000.00	\$18,000.00	\$6,000.00	\$18,000.00	\$6,000.00	\$18,000.00
53	INTAKE, SW 511	1.0 EA	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
54	BULKHEAD, 60" RCPP	1.0 EA	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
55	8" DI DROP CONNECTION	1.0 EA	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
56	10" DI DROP CONNECTION	1.0 EA	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
57	12" DI DROP CONNECTION	9.0 EA	\$750.00	\$6,750.00	\$750.00	\$6,750.00	\$750.00	\$6,750.00	\$750.00	\$6,750.00	\$750.00	\$6,750.00
58	MANHOLE ADJUSTMENT, MINOR	1.0 EA	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00
59	INTAKE ADJUSTMENT, MAJOR	8.0 EA	\$1,000.00	\$8,000.00	\$1,000.00	\$8,000.00	\$1,000.00	\$8,000.00	\$1,000.00	\$8,000.00	\$1,000.00	\$8,000.00
60	CONNECT TO GATE WELL	1.0 EA	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00
61	CONNECT TO TRENCH DRAIN	2.0 EA	\$3,000.00	\$6,000.00	\$3,000.00	\$6,000.00	\$3,000.00	\$6,000.00	\$3,000.00	\$6,000.00	\$3,000.00	\$6,000.00
62	CONNECT TO EXISTING INTAKE	1.0 EA	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00
63	REMOVE MANHOLE	3.0 EA	\$1,000.00	\$3,000.00	\$1,000.00	\$3,000.00	\$1,000.00	\$3,000.00	\$1,000.00	\$3,000.00	\$1,000.00	\$3,000.00
64	REMOVE INTAKE	21.0 EA	\$11,000.00	\$231,000.00	\$11,000.00	\$231,000.00	\$11,000.00	\$231,000.00	\$11,000.00	\$231,000.00	\$11,000.00	\$231,000.00
65	PAVEMENT, PCC, 6"	148.0 SY	\$60.00	\$8,880.00	\$60.00	\$8,880.00	\$60.00	\$8,880.00	\$60.00	\$8,880.00	\$60.00	\$8,880.00
66	RIBBON CURB, PCC 8", 1'-0" WIDE	248.0 LF	\$40.00	\$9,920.00	\$40.00	\$9,920.00	\$40.00	\$9,920.00	\$40.00	\$9,920.00	\$40.00	\$9,920.00
67	CURB AND GUTTER, PCC 8", 1'-0" WIDE	270.0 LF	\$40.00	\$10,800.00	\$40.00	\$10,800.00	\$40.00	\$10,800.00	\$40.00	\$10,800.00	\$40.00	\$10,800.00
68	CURB AND GUTTER, PCC, 7", 2'-6" WIDE	10488.0 LF	\$40.00	\$419,520.00	\$40.00	\$419,520.00	\$40.00	\$419,520.00	\$40.00	\$419,520.00	\$40.00	\$419,520.00
69	CURB AND GUTTER, PCC, 8", 26" WIDE	112.0 LF	\$55.00	\$6,160.00	\$55.00	\$6,160.00	\$55.00	\$6,160.00	\$55.00	\$6,160.00	\$55.00	\$6,160.00
70	CURB AND GUTTER, 1/2" MIX, NO FRC, PG 88-28H	15.0 TON	\$120.00	\$1,800.00	\$120.00	\$1,800.00	\$120.00	\$1,800.00	\$120.00	\$1,800.00	\$120.00	\$1,800.00
71	HMA HT SURFACE, 1/2" MIX, NO FRC, PG 88-28H	3318.0 TON	\$110.00	\$365,000.00	\$110.00	\$365,000.00	\$110.00	\$365,000.00	\$110.00	\$365,000.00	\$110.00	\$365,000.00
72	PAVEMENT, HMA HT, 6" BASE COURSE	1656.0 TON	\$110.00	\$182,160.00	\$110.00	\$182,160.00	\$110.00	\$182,160.00	\$110.00	\$182,160.00	\$110.00	\$182,160.00
73	PAVEMENT, HMA HT, 7" SURFACE COURSE	2882.0 SY	\$10.00	\$28,820.00	\$10.00	\$28,820.00	\$10.00	\$28,820.00	\$10.00	\$28,820.00	\$10.00	\$28,820.00
74	REMOVAL OF SIDEWALK	1158.0 SY	\$60.00	\$69,480.00	\$60.00	\$69,480.00	\$60.00	\$69,480.00	\$60.00	\$69,480.00	\$60.00	\$69,480.00
75	REMOVAL OF DRIVEWAY	1780.0 SY	\$70.00	\$124,600.00	\$70.00	\$124,600.00	\$70.00	\$124,600.00	\$70.00	\$124,600.00	\$70.00	\$124,600.00
76	SIDEWALK, PCC, 4" THICK	953.0 SY	\$40.00	\$38,120.00	\$40.00	\$38,120.00	\$40.00	\$38,120.00	\$40.00	\$38,120.00	\$40.00	\$38,120.00
77	SIDEWALK, PCC, 6" THICK	40.00 SY	\$50.00	\$2,000.00	\$50.00	\$2,000.00	\$50.00	\$2,000.00	\$50.00	\$2,000.00	\$50.00	\$2,000.00
78	DETECTABLE WARNING	1120.0 SF	\$50.00	\$56,000.00	\$50.00	\$56,000.00	\$50.00	\$56,000.00	\$50.00	\$56,000.00	\$50.00	\$56,000.00
79	DRIVEWAY, PCC, 8" THICK	977.0 SY	\$48.00	\$46,896.00	\$48.00	\$46,896.00	\$48.00	\$46,896.00	\$48.00	\$46,896.00	\$48.00	\$46,896.00
80	DRIVEWAY, PCC, 7" THICK	208.0 SY	\$50.00	\$10,400.00	\$50.00	\$10,400.00	\$50.00	\$10,400.00	\$50.00	\$10,400.00	\$50.00	\$10,400.00
81	DRIVEWAY, GRANULAR	370.0 TON	\$30.00	\$11,100.00	\$30.00	\$11,100.00	\$30.00	\$11,100.00	\$30.00	\$11,100.00	\$30.00	\$11,100.00
82	FULL DEPTH PATCH, COMPOSITE SECTIONS	40.0 SY	\$20.00	\$800.00	\$20.00	\$800.00	\$20.00	\$800.00	\$20.00	\$800.00	\$20.00	\$800.00
83	PAVEMENT SCARIFICATION	87.0 SY	\$111.812	\$9,727.62	\$111.812	\$9,727.62	\$111.812	\$9,727.62	\$111.812	\$9,727.62	\$111.812	\$9,727.62
84	PAVEMENT REMOVAL	18552.0 SY	\$40.00	\$742,080.00	\$40.00	\$742,080.00	\$40.00	\$742,080.00	\$40.00	\$742,080.00	\$40.00	\$742,080.00
85	TRAFFIC CONTROL	1406.0 SF	\$68.00	\$95,608.00	\$68.00	\$95,608.00	\$68.00	\$95,608.00	\$68.00	\$95,608.00	\$68.00	\$95,608.00
86	SOD	1.0 LS	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00	\$7,500.00
87	STORMWATER POLLUTION PREVENTION PLAN	1.0 LS	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00	\$4.00
88	FILTER SOCK, 8" DIA	1846.0 LF	\$1.00	\$1,846.00	\$1.00	\$1,846.00	\$1.00	\$1,846.00	\$1.00	\$1,846.00	\$1.00	\$1,846.00
89	FILTER SOCK REMOVAL	1846.0 LF	\$450.00	\$836,700.00	\$450.00	\$836,700.00	\$450.00	\$836,700.00	\$450.00	\$836,700.00	\$450.00	\$836,700.00
90	INLET PROTECTION DEVICE	33.0 EA	\$20.00	\$660.00	\$20.00	\$660.00	\$20.00	\$660.00	\$20.00	\$660.00	\$20.00	\$660.00
91	CHAIN LINK FENCE, 48", SALVAGE, REPLACE	96.0 LF	\$35.00	\$3,360.00	\$35.00	\$3,360.00	\$35.00	\$3,360.00	\$35.00	\$3,360.00	\$35.00	\$3,360.00
92	CHAIN LINK FENCE, 72", SALVAGE, REPLACE	40.0 LF	\$25.00	\$1,000.00	\$25.00	\$1,000.00	\$25.00	\$1,000.00	\$25.00	\$1,000.00	\$25.00	\$1,000.00
93	CHAIN LINK FENCE, 48"	75.0 LF	\$35.00	\$2,625.00	\$35.00	\$2,625.00	\$35.00	\$2,625.00	\$35.00	\$2,625.00	\$35.00	\$2,625.00
94	REMOVAL OF FENCE	211.0 SF	\$1,055.00	\$222,605.00	\$1,055.00	\$222,605.00	\$1,055.00	\$222,605.00	\$1,055.00	\$222,605.00	\$1,055.00	\$222,605.00
95	MODULAR BLOCK RETAINING WALL	310.0 SF	\$25.00	\$7,750.00	\$25.00	\$7,750.00	\$25.00	\$7,750.00	\$25.00	\$7,750.00	\$25.00	\$7,750.00
96	COMBINED RETAINING WALL - SIDEWALK	59.0 SY	\$700.00	\$41,300.00	\$700.00	\$41,300.00	\$700.00	\$41,300.00	\$700.00	\$41,300.00	\$700.00	\$41,300.00

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
97	CONCRETE STEPS, TYPE A	29.0	SF	\$125.00	\$3,625.00	\$125.00	\$3,625.00	\$125.00	\$3,625.00	\$125.00	\$3,625.00	\$125.00	\$3,625.00	\$125.00	\$3,625.00	\$3,625.00
98	HANDRAIL, BLACK STEEL PIPE	14.0	LF	\$30.00	\$420.00	\$60.00	\$840.00	\$50.00	\$700.00	\$95.00	\$1,330.00	\$100.00	\$1,400.00	\$50.00	\$700.00	\$700.00
99	CONSTRUCTION STAKING	1.0	LS	\$40,000.00	\$40,000.00	\$70,000.00	\$70,000.00	\$50,000.00	\$50,000.00	\$55,000.00	\$55,000.00	\$45,000.00	\$45,000.00	\$65,000.00	\$65,000.00	\$65,000.00
100	MOBILIZATION	1.0	LS	\$55,471.00	\$55,471.00	\$400,000.00	\$400,000.00	\$348,093.50	\$348,093.50	\$500,000.00	\$500,000.00	\$380,000.00	\$380,000.00	\$300,000.00	\$300,000.00	\$300,000.00
101	PAINTED PAVEMENT MARKINGS/WATERBORNE, 4"	3.2	STA	\$500.00	\$1,600.00	\$900.00	\$2,880.00	\$1,000.00	\$3,200.00	\$1,100.00	\$3,520.00	\$1,000.00	\$3,200.00	\$800.00	\$2,560.00	\$2,560.00
102	TREE PROTECTION FENCE, 4' HIGH	150.0	LF	\$7.00	\$1,050.00	\$8.00	\$1,200.00	\$5.00	\$750.00	\$5.00	\$750.00	\$6.00	\$900.00	\$8.00	\$1,200.00	\$1,200.00
103	TREE TRUNK PROTECTION	54.0	EA	\$175.00	\$9,450.00	\$500.00	\$27,000.00	\$275.00	\$14,850.00	\$275.00	\$14,850.00	\$225.00	\$12,150.00	\$250.00	\$13,500.00	\$13,500.00
104	TREE ROOT GRINDING	10.0	HOURS	\$250.00	\$2,500.00	\$150.00	\$1,500.00	\$180.00	\$1,800.00	\$300.00	\$3,000.00	\$350.00	\$3,500.00	\$150.00	\$1,500.00	\$1,500.00
105	TREE TRIMMING	10.0	EA	\$500.00	\$5,000.00	\$300.00	\$3,000.00	\$3,000.00	\$3,000.00	\$600.00	\$6,000.00	\$400.00	\$4,000.00	\$750.00	\$7,500.00	\$7,500.00
106	MAINTENANCE OF SOLID WASTE COLLECTION	1.0	LS	\$7,500.00	\$7,500.00	\$12,000.00	\$12,000.00	\$8,000.00	\$8,000.00	\$8,250.00	\$8,250.00	\$7,500.00	\$7,500.00	\$10,000.00	\$10,000.00	\$10,000.00
107	GREEN INFRASTRUCTURE EARTHWORK	1.0	LS	\$17,500.00	\$17,500.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$30,000.00	\$30,000.00	\$11,000.00	\$11,000.00	\$22,500.00	\$22,500.00	\$22,500.00
108	COMBINATION CURB CUT/SEDIMENT TRAP	1.0	EA	\$1,000.00	\$1,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$1,000.00	\$1,000.00	\$1,800.00	\$1,800.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
109	FINAL LANDSCAPE GRADING	460.0	SY	\$20.00	\$9,200.00	\$20.00	\$9,200.00	\$30.00	\$13,800.00	\$2.40	\$1,104.00	\$26.00	\$11,960.00	\$25.00	\$11,500.00	\$11,500.00
110	PLANTING MEDIA & BED PREPARATION	57.0	SY	\$50.00	\$2,850.00	\$75.00	\$4,275.00	\$90.00	\$5,130.00	\$24.00	\$1,368.00	\$77.00	\$4,389.00	\$75.00	\$4,275.00	\$4,275.00
111	TAP STORM HANHOLE FOR UNDERDRAIN	2.0	EA	\$250.00	\$500.00	\$400.00	\$800.00	\$500.00	\$1,000.00	\$300.00	\$600.00	\$460.00	\$920.00	\$450.00	\$900.00	\$900.00
112	UNDERDRAIN CLEANOUT	2.0	EA	\$2,500.00	\$5,000.00	\$900.00	\$1,800.00	\$2,000.00	\$4,000.00	\$600.00	\$1,200.00	\$1,560.00	\$3,120.00	\$1,500.00	\$3,000.00	\$3,000.00
113	ENGINEERING FABRIC	430.0	SY	\$10.00	\$4,300.00	\$10.00	\$4,300.00	\$10.00	\$4,300.00	\$10.00	\$4,300.00	\$8.00	\$3,440.00	\$8.00	\$3,440.00	\$3,440.00
114	SLOTTED UNDERDRAIN - 6" PIPE	320.0	LF	\$30.00	\$9,600.00	\$32.00	\$10,240.00	\$40.00	\$12,800.00	\$28.00	\$8,960.00	\$35.00	\$11,200.00	\$31.00	\$9,920.00	\$9,920.00
115	SOLID UNDERDRAIN - 6" PIPE	120.0	LF	\$22.00	\$2,640.00	\$24.00	\$2,880.00	\$42.50	\$5,100.00	\$25.00	\$3,000.00	\$35.00	\$4,200.00	\$35.00	\$4,200.00	\$4,200.00
116	SLOTTED UNDERDRAIN - 8" PIPE	140.0	LF	\$33.00	\$4,620.00	\$25.00	\$3,500.00	\$45.00	\$6,300.00	\$27.00	\$3,780.00	\$40.00	\$5,600.00	\$35.00	\$4,900.00	\$4,900.00
117	SOLID UNDERDRAIN - 8" PIPE	335.0	LF	\$25.00	\$8,375.00	\$32.00	\$10,720.00	\$47.50	\$15,912.50	\$27.00	\$9,045.00	\$40.00	\$13,400.00	\$35.00	\$11,725.00	\$11,725.00
118	SUBBASE AGGREGATE	139.0	TON	\$50.00	\$6,950.00	\$30.00	\$4,170.00	\$75.00	\$10,425.00	\$80.00	\$11,120.00	\$77.00	\$10,703.00	\$70.00	\$9,730.00	\$9,730.00
119	FILTER AGGREGATE	83.0	TON	\$85.00	\$7,055.00	\$30.00	\$2,490.00	\$80.00	\$6,640.00	\$77.00	\$6,391.00	\$70.00	\$5,810.00	\$65.00	\$5,365.00	\$5,365.00
120	PERMEABLE CONCRETE PAVERS WITH BEDDING	2220.0	SF	\$20.00	\$44,400.00	\$15.00	\$33,300.00	\$20.00	\$44,400.00	\$30.00	\$66,600.00	\$13.00	\$28,860.00	\$16.00	\$35,520.00	\$35,520.00
121	BIORETENTION AMENDED SOIL	25.0	CY	\$80.00	\$2,000.00	\$75.00	\$1,875.00	\$90.00	\$2,250.00	\$83.00	\$2,075.50	\$80.00	\$2,000.00	\$75.00	\$1,875.00	\$1,875.00
122	PLANTING SOIL MIX	185.0	CY	\$70.00	\$12,950.00	\$75.00	\$13,875.00	\$90.00	\$16,650.00	\$80.00	\$14,800.00	\$83.00	\$15,365.00	\$80.00	\$14,400.00	\$14,400.00
123	DECIDUOUS SHRUBS - 5 GALLON	76.0	EA	\$60.00	\$4,560.00	\$65.00	\$4,940.00	\$80.00	\$6,080.00	\$90.00	\$6,840.00	\$55.00	\$4,190.00	\$65.00	\$4,940.00	\$4,940.00
124	PERENNIALS/ORNAMENTAL GRASSES - 1 GALLON	741.0	EA	\$18.00	\$13,338.00	\$20.00	\$14,820.00	\$25.00	\$18,525.00	\$24.00	\$17,784.00	\$20.00	\$14,820.00	\$20.00	\$14,820.00	\$14,820.00
125	GROUND COVER - 4 1/2" POT	1390.0	EA	\$6.00	\$8,340.00	\$7.50	\$10,425.00	\$10.00	\$13,900.00	\$14.50	\$20,155.00	\$7.50	\$10,425.00	\$7.50	\$10,425.00	\$10,425.00
126	METAL EDGE	320.0	LF	\$10.00	\$3,200.00	\$12.00	\$3,840.00	\$15.00	\$4,800.00	\$8.50	\$2,720.00	\$12.00	\$3,840.00	\$11.00	\$3,520.00	\$3,520.00
127	WOOD CHIP MULCH	60.0	CY	\$45.00	\$2,700.00	\$50.00	\$3,000.00	\$60.00	\$3,600.00	\$50.00	\$3,000.00	\$50.00	\$3,000.00	\$48.00	\$2,880.00	\$2,880.00
128	WATER MAIN ALTERATION NO. 1	1.0	EA	\$10,000.00	\$10,000.00	\$12,000.00	\$12,000.00	\$10,000.00	\$10,000.00	\$11,000.00	\$11,000.00	\$15,000.00	\$15,000.00	\$12,500.00	\$12,500.00	\$12,500.00
129	WATER MAIN ALTERATION NO. 2	1.0	EA	\$10,000.00	\$10,000.00	\$11,500.00	\$11,500.00	\$10,000.00	\$10,000.00	\$11,000.00	\$11,000.00	\$15,000.00	\$15,000.00	\$12,500.00	\$12,500.00	\$12,500.00
130	WATER MAIN ALTERATION NO. 3	1.0	EA	\$10,000.00	\$10,000.00	\$11,500.00	\$11,500.00	\$10,000.00	\$10,000.00	\$11,000.00	\$11,000.00	\$15,000.00	\$15,000.00	\$12,500.00	\$12,500.00	\$12,500.00
131	WATER MAIN ALTERATION NO. 4	1.0	EA	\$18,000.00	\$18,000.00	\$23,000.00	\$23,000.00	\$15,000.00	\$15,000.00	\$11,000.00	\$11,000.00	\$36,000.00	\$36,000.00	\$26,500.00	\$26,500.00	\$26,500.00
132	WATER MAIN ALTERATION NO. 5	1.0	EA	\$21,000.00	\$21,000.00	\$27,000.00	\$27,000.00	\$25,000.00	\$25,000.00	\$11,000.00	\$11,000.00	\$11,000.00	\$11,000.00	\$16,000.00	\$16,000.00	\$16,000.00
133	WATER MAIN ALTERATION NO. 6	1.0	EA	\$11,000.00	\$11,000.00	\$21,000.00	\$21,000.00	\$10,000.00	\$10,000.00	\$11,000.00	\$11,000.00	\$16,000.00	\$16,000.00	\$17,500.00	\$17,500.00	\$17,500.00
134	WATER MAIN ALTERATION NO. 7	1.0	EA	\$9,000.00	\$9,000.00	\$12,000.00	\$12,000.00	\$10,000.00	\$10,000.00	\$11,000.00	\$11,000.00	\$16,000.00	\$16,000.00	\$17,500.00	\$17,500.00	\$17,500.00
135	8" C900 PVC PIPE, STAB	207.0	LF	\$80.00	\$16,560.00	\$78.00	\$16,146.00	\$60.00	\$12,420.00	\$60.00	\$12,420.00	\$130.00	\$26,910.00	\$135.00	\$27,945.00	\$27,945.00
136	8" BEND	4.0	EA	\$1,000.00	\$4,000.00	\$475.00	\$1,900.00	\$300.00	\$1,200.00	\$240.00	\$960.00	\$400.00	\$1,600.00	\$975.00	\$3,900.00	\$3,900.00
137	6" SOLID SLEEVE	1.0	EA	\$500.00	\$500.00	\$500.00	\$500.00	\$300.00	\$300.00	\$240.00	\$240.00	\$400.00	\$400.00	\$2,950.00	\$2,950.00	\$2,950.00
138	8" CAP	1.0	EA	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$150.00	\$150.00	\$120.00	\$120.00	\$250.00	\$250.00	\$2,100.00	\$2,100.00	\$2,100.00
139	8" X 6" REDUCER	1.0	EA	\$700.00	\$700.00	\$400.00	\$400.00	\$150.00	\$150.00	\$120.00	\$120.00	\$300.00	\$300.00	\$2,200.00	\$2,200.00	\$2,200.00
140	PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE	1.0	EA	\$4,000.00	\$4,000.00	\$1,800.00	\$1,800.00	\$1,800.00	\$2,500.00	\$2,500.00	\$3,000.00	\$3,000.00	\$3,000.00	\$4,900.00	\$4,900.00	\$4,900.00
141	FIRE HYDRANT ASSEMBLY	1.0	EA	\$6,000.00	\$6,000.00	\$4,500.00	\$4,500.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,900.00	\$6,900.00	\$6,900.00
142	NEW 1" WATER SERVICE TRANSFER, SAME SIDE	1.0	EA	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$600.00	\$600.00	\$2,800.00	\$2,800.00	\$1,900.00	\$1,900.00
143	NEW 1" WATER SERVICE TRANSFER, OPPOSITE SIDE	1.0	EA	\$2,500.00	\$2,500.00	\$2,800.00	\$2,800.00	\$5,500.00	\$5,500.00	\$600.00	\$600.00	\$3,200.00	\$3,200.00	\$2,700.00	\$2,700.00	\$2,700.00
144	LOWER WATER SERVICE	15.0	EA	\$1,500.00	\$22,500.00	\$1,750.00	\$26,250.00	\$1,500.00	\$22,500.00	\$800.00	\$12,000.00	\$2,000.00	\$30,000.00	\$1,500.00	\$22,500.00	\$22,500.00
145	LOWER WATER SERVICE, WITH NEW COPPER	5.0	EA	\$2,000.00	\$10,000.00	\$2,800.00	\$14,000.00	\$13,000.00	\$19,500.00	\$600.00	\$9,000.00	\$4,000.00	\$20,000.00	\$1,900.00	\$9,500.00	\$9,500.00
	TOTAL CONSTRUCTION COST				\$4,635,000.00		\$4,683,948.80		\$5,425,000.00		\$5,998,975.93		\$6,159,160.00		\$6,259,820.00	
	PERCENT OF ENGINEER'S ESTIMATE						+1.06%		+17.04%		+29.43%		+32.68%		+35.06%	