

DATE January 8, 2018

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON
31ST STREET RECONSTRUCTION FROM I-235 TO UNIVERSITY AVENUE;
RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS MPS ENGINEERS, P.C. DBA KINGSTON SERVICES, P.C., UMESH G.SHETYE, PRESIDENT, \$686,171.60

WHEREAS, on December 4, 2017, under Roll Call No. 17-2038, 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:

31st Street Reconstruction from I-235 to University Avenue, 06-2017-002

The improvement includes the reconstruction of 31st Street from I-235 to University Avenue with full-depth Hot Mix Asphalt (HMA) pavement, including pavement scarification and removal, furnish and place HMA, full depth Portland Cement Concrete (PCC) patching, PCC curb and gutter, PCC sidewalk, PCC driveway, pavement markings, sidewalk ramps, 15-inch and 24-inch RCP storm sewer, intakes, manholes, sanitary sewer repairs, water main alterations, modular block retaining wall, fencing, sodding, and miscellaneous associated work including cleanup; in accordance with the contract documents, including Plan File Nos. 588-140/193, located at 31st Street from I-235 to University Avenue, 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:

★ **Roll Call Number**

Agenda Item Number

55

DATE January 8, 2018

MPS Engineers, P.C. dba Kingston Services, P.C.	Des Moines, IA
Grimes Asphalt and Paving Corporation	Des Moines, IA
Jasper Construction Services, Inc.	Newton, IA
InRoads, LLC	Des Moines, IA
Elder Corporation	Des Moines, IA
Synergy Contracting, LLC	Bondurant, IA
OMG Midwest, Inc. dba Des Moines Asphalt & Paving	Ankeny, IA
Rognes Corp. dba Rognes Corporation	Ankeny, IA

which were received and opened at a public meeting presided over by the Engineer in the Shijiazhuang Room, 2nd Floor, City Administration Building, 400 E. Court Avenue, Des Moines, Iowa at 11:00 a.m. on December 19, 2017. 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 MPS Engineers, P.C. dba Kingston Services, P.C., Umesh G.Shetye, President, 1444 Illinois Street, Des Moines, IA, 50314 in the amount of \$686,171.60, 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.

DATE January 8, 2018

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.

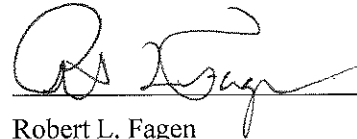
BE IT FURTHER RESOLVED: That the City Council hereby authorizes the necessary road closures for the Project.

(City Council Communication Number 18-016 attached.)

Moved by _____ to adopt.

FORM APPROVED:

FUNDS AVAILABLE

Kathleen Vanderpool
Deputy City Attorney

Robert L. Fagen
Des Moines Finance Director

Re Funding Source: 2017-2018 CIP, Page Street – 30, Roadway Reconstruction, ST260, Being: \$444,641.60 Road Use Tax Funds, \$111,765.00 of Storm Water and \$111,765.00 of Sanitary Sewer Funds, and the remaining \$18,000 from Des Moines Water Works

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

MOTION CARRIED

APPROVED

Mayor

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.

City Clerk

BID DATE: 12/19/17

TABULATED BY: M. RADERMACHER APPROVED BY: R. De Groot
CHECKED BY: Frank Lewis

MPS Engineers, PC dba
Kingston Services, PC
Des Moines, IA

Grimes Asphalt and
Paving Corporation
Des Moines, IA

Jasper Construction
Services, Inc.
Newton, IA

BID SECURITY
10% Bid Bond

BID SECURITY
10% Bid Bond

BID SECURITY
10% Bid Bond

CONTRACTOR'S BID TABULATION
PROJECT: 31ST STREET RECONSTRUCTION FROM I-235 TO UNIVERSITY AVENUE

ESTIMATE

BID PRICE

BID PRICE

BID PRICE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	CLEARING AND GRUBBING	1 LS	\$4,000.00	\$4,000.00	\$12,900.00	\$12,900.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
2	TOPSOIL, OFF - SITE	190 CY	\$55.00	\$10,450.00	\$32.00	\$6,080.00	\$21.00	\$3,990.00	\$50.00	\$9,500.00
3	EXCAVATION, CLASS 10	390 CY	\$30.00	\$11,700.00	\$42.00	\$16,380.00	\$11.00	\$4,290.00	\$30.00	\$11,700.00
4	SUBGRADE PREPARATION, 6 IN. DEPTH	1340 SY	\$5.00	\$6,700.00	\$6.00	\$8,040.00	\$2.50	\$3,350.00	\$6.00	\$8,040.00
5	SUBGRADE TREATMENT - GEOGRID	100 SY	\$5.00	\$500.00	\$5.00	\$500.00	\$4.50	\$450.00	\$5.00	\$500.00
6	SUBGRADE TREATMENT - FLY ASH / LIME	2840 SY	\$20.00	\$56,800.00	\$3.00	\$8,520.00	\$12.00	\$34,080.00	\$17.50	\$49,700.00
7	SUBBASE, MODIFIED	1340 SY	\$13.00	\$17,420.00	\$16.00	\$21,440.00	\$14.00	\$18,760.00	\$14.00	\$18,760.00
8	SANITARY SEWER GRAVITY MAIN, TRENCHED, 8" DIA.	27 LF	\$95.00	\$2,565.00	\$116.00	\$3,132.00	\$58.00	\$1,566.00	\$100.00	\$2,700.00
9	SANITARY SEWER GRAVITY MAIN, TRENCHED, 12" DIA.	39 LF	\$100.00	\$3,900.00	\$134.00	\$5,226.00	\$58.00	\$2,262.00	\$110.00	\$4,290.00
10	REMOVAL OF SANITARY SEWER, VCP, 12" DIA AND LESS	66 LF	\$25.00	\$1,650.00	\$25.00	\$1,650.00	\$42.00	\$2,772.00	\$20.00	\$1,320.00
11	STORM SEWER, TRENCHED, 2000D RCP, 15 IN.	152 LF	\$75.00	\$11,400.00	\$100.00	\$15,200.00	\$48.00	\$7,296.00	\$60.00	\$9,120.00
12	STORM SEWER, TRENCHED, 2000D RCP, 24 IN.	363 LF	\$120.00	\$43,560.00	\$115.00	\$41,745.00	\$79.00	\$28,677.00	\$80.00	\$29,040.00
13	STORM SEWER ABANDONMENT, FILL AND PLUG	83 LF	\$25.00	\$2,075.00	\$25.00	\$2,075.00	\$42.00	\$3,486.00	\$20.00	\$1,680.00
14	MANHOLE, SW-301, 48 IN.	2 EACH	\$7,000.00	\$14,000.00	\$7,100.00	\$14,200.00	\$5,900.00	\$11,800.00	\$4,500.00	\$9,000.00
15	INTAKE, SW-501	4 EACH	\$3,500.00	\$14,000.00	\$3,550.00	\$14,200.00	\$3,200.00	\$12,800.00	\$4,000.00	\$16,000.00
16	INTAKE, SW-503	2 EACH	\$5,000.00	\$10,000.00	\$4,900.00	\$9,800.00	\$8,200.00	\$16,400.00	\$6,000.00	\$12,000.00
17	INTAKE, SW-505	1 EACH	\$5,500.00	\$5,500.00	\$5,500.00	\$5,500.00	\$7,400.00	\$7,400.00	\$6,500.00	\$6,500.00
18	INTAKE, SW-506	1 EACH	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$13,000.00	\$13,000.00	\$9,000.00	\$9,000.00
19	REMOVE INTAKE OR MANHOLE	6 EACH	\$1,000.00	\$6,000.00	\$700.00	\$4,200.00	\$800.00	\$4,800.00	\$500.00	\$3,000.00
20	PAVEMENT, PCC, 7 IN.	179 SY	\$75.00	\$13,425.00	\$78.00	\$13,962.00	\$80.00	\$14,320.00	\$82.50	\$14,767.50
21	CURB AND GUTTER, PCC, 8 IN	2100 LF	\$25.00	\$52,500.00	\$16.00	\$33,600.00	\$24.00	\$50,400.00	\$36.00	\$75,600.00
22	HMA HT SURFACE, 1/2" MIX, NO FRIC, PG 58-28H	450 TON	\$125.00	\$56,250.00	\$71.00	\$31,950.00	\$85.00	\$38,250.00	\$93.00	\$41,850.00
23	PAVEMENT, HMA HT, 6 1/2 IN. THICK	3100 SY	\$50.00	\$155,000.00	\$27.00	\$83,700.00	\$40.00	\$124,000.00	\$33.00	\$102,300.00
24	HMA PAVEMENT SAMPLES AND TESTING	1 LS	\$10,000.00	\$10,000.00	\$550.00	\$550.00	\$550.00	\$550.00	\$3,850.00	\$3,850.00
25	CLEANING AND PREPARATION OF BASE	0.1 MILE	\$15,000.00	\$1,500.00	\$2,100.00	\$210.00	\$2,100.00	\$210.00	\$14,850.00	\$1,485.00
26	REMOVAL OF SIDEWALK	360 SY	\$15.00	\$5,400.00	\$12.00	\$4,320.00	\$13.00	\$4,680.00	\$20.00	\$7,200.00
27	REMOVAL OF DRIVEWAY	310 SY	\$15.00	\$4,650.00	\$12.00	\$3,720.00	\$13.00	\$4,030.00	\$20.00	\$6,200.00
28	SIDEWALK, PCC, 4 IN. THICK	250 SY	\$50.00	\$12,500.00	\$56.00	\$14,000.00	\$63.00	\$15,750.00	\$65.00	\$16,250.00
29	SIDEWALK, PCC, 6 IN. THICK	135 SY	\$80.00	\$10,800.00	\$64.00	\$8,640.00	\$109.00	\$14,715.00	\$75.00	\$10,125.00
30	DETECTABLE WARNING	180 SF	\$50.00	\$9,000.00	\$35.00	\$6,300.00	\$37.00	\$6,660.00	\$50.00	\$9,000.00
31	DRIVEWAY, PCC, 6 IN. THICK	230 SY	\$70.00	\$16,100.00	\$64.00	\$14,720.00	\$64.00	\$14,720.00	\$75.00	\$17,250.00
32	DRIVEWAY, PCC, 7 IN. THICK	60 SY	\$80.00	\$4,800.00	\$72.00	\$4,320.00	\$58.00	\$3,480.00	\$82.50	\$4,950.00
33	DRIVEWAY, HMA, 7 IN. THICK	18 SY	\$100.00	\$1,800.00	\$38.00	\$684.00	\$38.00	\$684.00	\$120.00	\$2,160.00
34	DRIVEWAY, GRANULAR	45 TON	\$40.00	\$1,800.00	\$40.00	\$1,800.00	\$42.00	\$1,890.00	\$45.00	\$2,025.00
35	FUEL DEPTH FINISH PATCH, PCC	90 SY	\$120.00	\$10,800.00	\$118.00	\$10,440.00	\$97.00	\$8,730.00	\$135.00	\$12,150.00
36	PAVEMENT SCARIFICATION	1972 SY	\$8.00	\$15,776.00	\$4.00	\$7,888.00	\$4.00	\$7,888.00	\$3.30	\$6,507.60
37	PAVEMENT REMOVAL	3680 SY	\$15.00	\$55,200.00	\$10.00	\$36,800.00	\$10.53	\$38,750.40	\$15.00	\$55,200.00
38	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	40.18 STA	\$50.00	\$2,009.00	\$45.00	\$1,808.10	\$48.00	\$1,928.64	\$50.00	\$2,009.00
39	PAINTED PAVEMENT MARKING, DURABLE (EPOXY)	6.96 STA	\$340.00	\$2,366.40	\$700.00	\$4,872.00	\$750.00	\$5,220.00	\$770.00	\$5,359.20
40	INLAY PAVEMENT MARKINGS, PROFILED MARKING TAPE	40.18 STA	\$450.00	\$18,081.00	\$425.00	\$17,076.50	\$450.00	\$18,081.00	\$470.00	\$18,884.60
41	GROOVED-IN PAVEMENT MARKINGS, PROFILED MARKING TAPE	21.48 STA	\$450.00	\$9,666.00	\$225.00	\$4,833.00	\$250.00	\$5,370.00	\$250.00	\$5,370.00
42	INLAY PRE-CUT SYMBOLS AND LEGENDS, INTERSECTION MARKING TAF	2 EACH	\$500.00	\$1,000.00	\$780.00	\$1,560.00	\$825.00	\$1,650.00	\$850.00	\$1,700.00

55

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
43	GROOVED-IN PRE-CUT SYMBOLS AND LEGENDS, INTERSECTION MARKI	6 EACH	\$500.00	\$3,000.00	\$275.00	\$1,650.00	\$300.00	\$1,800.00	\$300.00	\$1,800.00
44	GROOVES CUT FOR PAVEMENT MARKINGS	28.44 STA	\$150.00	\$4,266.00	\$225.00	\$6,399.00	\$240.00	\$6,825.60	\$250.00	\$7,110.00
45	GROOVES CUT FOR SYMBOLS AND LEGENDS	6 EACH	\$250.00	\$1,500.00	\$175.00	\$1,050.00	\$185.00	\$1,110.00	\$195.00	\$1,170.00
46	TRAFFIC CONTROL	1 LS	\$15,000.00	\$15,000.00	\$12,900.00	\$12,900.00	\$14,000.00	\$14,000.00	\$20,000.00	\$20,000.00
47	FLAGGERS, CERTIFIED	10 DAY	\$500.00	\$5,000.00	\$500.00	\$5,000.00	\$475.00	\$4,750.00	\$450.00	\$4,500.00
48	SOD	220 SQ	\$90.00	\$19,800.00	\$90.00	\$19,800.00	\$77.00	\$16,940.00	\$60.00	\$13,200.00
49	STORM WATER POLLUTION PREVENTION	1 LS	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$3,700.00	\$3,700.00	\$5,000.00	\$5,000.00
50	FILTER SOCK, 9 INCH DIA.	1810 LF	\$2.50	\$4,525.00	\$1.25	\$2,262.50	\$4.00	\$7,240.00	\$1.00	\$1,810.00
51	FILTER SOCK, REMOVAL	1810 LF	\$1.00	\$1,810.00	\$0.05	\$90.50	\$0.50	\$905.00	\$0.25	\$452.50
52	EROSION CONTROL MULCHING, HYDROMULCHING	0.5 ACRE	\$5,000.00	\$2,500.00	\$4,000.00	\$2,000.00	\$1,600.00	\$800.00	\$2,000.00	\$1,000.00
53	INLET PROTECTION DEVICE	7 EACH	\$500.00	\$3,500.00	\$100.00	\$700.00	\$160.00	\$1,120.00	\$150.00	\$1,050.00
54	CHAIN LINK FENCE, 48 IN.	51 LF	\$25.00	\$1,275.00	\$12.00	\$612.00	\$6.50	\$331.50	\$35.00	\$1,785.00
55	REMOVAL OF FENCE	51 LF	\$15.00	\$765.00	\$6.00	\$306.00	\$34.00	\$1,734.00	\$6.25	\$318.75
56	MODULAR BLOCK RETAINING WALL	605 SF	\$30.00	\$18,150.00	\$38.00	\$22,990.00	\$32.00	\$19,360.00	\$18.00	\$10,890.00
57	CONCRETE STEPS, TYPE A	20 SF	\$150.00	\$3,000.00	\$150.00	\$3,000.00	\$205.00	\$4,100.00	\$150.00	\$3,000.00
58	CONCRETE STEPS, TYPE B	36 SF	\$150.00	\$5,400.00	\$150.00	\$5,400.00	\$157.00	\$5,652.00	\$150.00	\$5,400.00
59	HANDRAIL, BLACK STEEL PIPE	25 LF	\$100.00	\$2,500.00	\$100.00	\$2,500.00	\$43.00	\$1,075.00	\$200.00	\$5,000.00
60	REMOVAL OF CONCRETE STEPS	23 SF	\$30.00	\$690.00	\$30.00	\$690.00	\$106.00	\$2,438.00	\$30.00	\$690.00
61	MOBILIZATION	1 LS	\$56,550.60	\$56,550.60	\$64,000.00	\$64,000.00	\$80,000.00	\$80,000.00	\$81,300.00	\$81,300.00
62	TREE PROTECTION FENCE, 4' HIGH	165 LF	\$5.00	\$825.00	\$2.00	\$330.00	\$4.25	\$701.25	\$5.00	\$825.00
63	TREE TRUNK PROTECTION	10 EACH	\$350.00	\$3,500.00	\$75.00	\$750.00	\$185.00	\$1,850.00	\$30.00	\$300.00
64	NEW STOP BOX HOUSING	3 EACH	\$400.00	\$1,200.00	\$200.00	\$600.00	\$790.00	\$2,370.00	\$350.00	\$1,050.00
65	NEW STOP BOX ROD	3 EACH	\$400.00	\$1,200.00	\$200.00	\$600.00	\$270.00	\$810.00	\$350.00	\$1,050.00
66	RELOCATION OF WATER SERVICE	2 EACH	\$1,500.00	\$3,000.00	\$1,500.00	\$3,000.00	\$1,600.00	\$3,200.00	\$1,700.00	\$3,400.00
67	LOOP DETECTOR REPLACEMENT, 6' X 8'	2 EACH	\$1,200.00	\$2,400.00	\$750.00	\$1,500.00	\$1,100.00	\$2,200.00	\$1,100.00	\$2,200.00
68	LOOP DETECTOR REPLACEMENT, 6' X 20'	4 EACH	\$1,000.00	\$4,000.00	\$875.00	\$3,500.00	\$1,400.00	\$5,600.00	\$1,200.00	\$4,800.00
69	WATER MAIN ALTERATION NO. 1	1 EACH	\$8,000.00	\$8,000.00	\$12,000.00	\$12,000.00	\$6,400.00	\$6,400.00	\$5,000.00	\$5,000.00
70	REMOVE AND REPLACE FIRE HYDRANT	1 EACH	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,400.00	\$6,400.00	\$6,100.00	\$6,100.00
TOTAL CONSTRUCTION COST				\$880,000.00		\$686,171.60		\$767,548.39		\$819,224.15
PERCENT OF ENGINEER'S ESTIMATE						-22.03%		-12.78%		-6.91%
						Low				

BID DATE: 12/19/17

TABULATED BY: M. RADERMACHER APPROVED BY _____
CHECKED BY: _____

InRoads LLC
Des Moines, IA

Elder Corporation
Des Moines, IA

Synergy Contracting, LLC
Bondurant, IA

CONTRACTOR'S BID TABULATION
PROJECT: 31ST STREET RECONSTRUCTION FROM I-235 TO UNIVERSITY AVENUE

BID SECURITY
10% Bid Bond

BID SECURITY
10% Bid Bond

BID SECURITY
10% Bid Bond

ESTIMATE

BID PRICE

BID PRICE

BID PRICE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	CLEARING AND GRUBBING	1 LS	\$4,000.00	\$4,000.00	\$10,000.00	\$10,000.00	\$19,000.00	\$19,000.00	\$1,400.00	\$1,400.00
2	TOPSOIL, OFF - SITE	190 CY	\$55.00	\$10,450.00	\$15.00	\$2,850.00	\$32.00	\$6,080.00	\$42.00	\$7,980.00
3	EXCAVATION, CLASS 10	390 CY	\$30.00	\$11,700.00	\$13.00	\$5,070.00	\$28.00	\$10,920.00	\$18.00	\$7,020.00
4	SUBGRADE PREPARATION, 6 IN. DEPTH	1340 SY	\$5.00	\$6,700.00	\$2.50	\$3,350.00	\$6.00	\$8,040.00	\$4.00	\$5,360.00
5	SUBGRADE TREATMENT - GEOGRID	100 SY	\$5.00	\$500.00	\$3.50	\$350.00	\$7.00	\$700.00	\$4.00	\$400.00
6	SUBGRADE TREATMENT - FLY ASH / LIME	2840 SY	\$20.00	\$56,800.00	\$21.00	\$59,640.00	\$7.00	\$19,880.00	\$18.00	\$51,120.00
7	SUBBASE, MODIFIED	1340 SY	\$13.00	\$17,420.00	\$7.65	\$10,251.00	\$10.00	\$13,400.00	\$13.00	\$17,420.00
8	SANITARY SEWER GRAVITY MAIN, TRENCHED, 8" DIA.	27 LF	\$95.00	\$2,565.00	\$140.00	\$3,780.00	\$195.00	\$5,265.00	\$110.00	\$2,970.00
9	SANITARY SEWER GRAVITY MAIN, TRENCHED, 12" DIA.	39 LF	\$100.00	\$3,900.00	\$160.00	\$6,240.00	\$175.00	\$6,825.00	\$122.00	\$4,758.00
10	REMOVAL OF SANITARY SEWER, VCP, 12" DIA AND LESS	66 LF	\$25.00	\$1,650.00	\$16.00	\$1,056.00	\$30.00	\$1,980.00	\$14.00	\$924.00
11	STORM SEWER, TRENCHED, 2000D RCP, 15 IN.	152 LF	\$75.00	\$11,400.00	\$77.50	\$11,780.00	\$87.00	\$13,224.00	\$108.00	\$16,416.00
12	STORM SEWER, TRENCHED, 2000D RCP, 24 IN.	363 LF	\$120.00	\$43,560.00	\$82.00	\$29,766.00	\$94.00	\$34,122.00	\$130.00	\$47,190.00
13	STORM SEWER ABANDONMENT, FILL AND PLUG	83 LF	\$25.00	\$2,075.00	\$21.50	\$1,784.50	\$26.00	\$2,158.00	\$28.00	\$2,324.00
14	MANHOLE, SW-301, 48 IN.	2 EACH	\$7,000.00	\$14,000.00	\$6,860.00	\$13,720.00	\$11,000.00	\$22,000.00	\$7,300.00	\$14,600.00
15	INTAKE, SW-501	4 EACH	\$3,500.00	\$14,000.00	\$4,700.00	\$18,800.00	\$4,900.00	\$19,600.00	\$5,000.00	\$20,000.00
16	INTAKE, SW-503	2 EACH	\$5,000.00	\$10,000.00	\$6,800.00	\$13,200.00	\$6,400.00	\$12,800.00	\$9,700.00	\$19,400.00
17	INTAKE, SW-505	1 EACH	\$5,500.00	\$5,500.00	\$7,850.00	\$7,850.00	\$6,200.00	\$6,200.00	\$11,300.00	\$11,300.00
18	INTAKE, SW-506	1 EACH	\$6,000.00	\$6,000.00	\$9,600.00	\$9,600.00	\$10,000.00	\$10,000.00	\$15,000.00	\$15,000.00
19	REMOVE INTAKE OR MANHOLE	6 EACH	\$1,000.00	\$6,000.00	\$1,850.00	\$11,100.00	\$750.00	\$4,500.00	\$400.00	\$2,400.00
20	PAVEMENT, PCC, 7 IN.	179 SY	\$75.00	\$13,425.00	\$115.00	\$20,585.00	\$43.00	\$7,697.00	\$70.00	\$12,530.00
21	CURB AND GUTTER, PCC, 8 IN	2100 LF	\$25.00	\$52,500.00	\$21.30	\$44,730.00	\$40.00	\$84,000.00	\$18.00	\$37,800.00
22	HMA HT SURFACE, 1/2" MIX, NO FRIC, PG 58-28H	450 TON	\$125.00	\$56,250.00	\$100.00	\$45,000.00	\$71.00	\$31,950.00	\$85.00	\$38,250.00
23	PAVEMENT, HMA HT, 6 1/2 IN. THICK	3100 SY	\$50.00	\$155,000.00	\$38.75	\$120,125.00	\$27.00	\$83,700.00	\$32.00	\$99,200.00
24	HMA PAVEMENT SAMPLES AND TESTING	1 LS	\$10,000.00	\$10,000.00	\$7,500.00	\$7,500.00	\$550.00	\$550.00	\$650.00	\$650.00
25	CLEANING AND PREPARATION OF BASE	0.1 MILE	\$15,000.00	\$1,500.00	\$20,000.00	\$2,000.00	\$2,100.00	\$210.00	\$2,500.00	\$250.00
26	REMOVAL OF SIDEWALK	360 SY	\$15.00	\$5,400.00	\$5.00	\$1,800.00	\$37.00	\$13,320.00	\$10.00	\$3,600.00
27	REMOVAL OF DRIVEWAY	310 SY	\$15.00	\$4,650.00	\$5.50	\$1,705.00	\$42.00	\$13,020.00	\$10.00	\$3,100.00
28	SIDEWALK, PCC, 4 IN. THICK	250 SY	\$50.00	\$12,500.00	\$75.00	\$18,750.00	\$36.00	\$9,000.00	\$43.00	\$10,750.00
29	SIDEWALK, PCC, 6 IN. THICK	135 SY	\$80.00	\$10,800.00	\$130.00	\$17,550.00	\$41.00	\$5,535.00	\$75.00	\$10,125.00
30	DETECTABLE WARNING	180 SF	\$50.00	\$9,000.00	\$60.00	\$10,800.00	\$40.00	\$7,200.00	\$45.00	\$8,100.00
31	DRIVEWAY, PCC, 6 IN. THICK	230 SY	\$70.00	\$16,100.00	\$68.00	\$15,180.00	\$36.00	\$8,280.00	\$85.00	\$19,550.00
32	DRIVEWAY, PCC, 7 IN. THICK	60 SY	\$80.00	\$4,800.00	\$106.00	\$6,360.00	\$45.00	\$2,700.00	\$93.00	\$5,580.00
33	DRIVEWAY, HMA, 7 IN. THICK	18 SY	\$100.00	\$1,800.00	\$60.00	\$1,080.00	\$38.00	\$684.00	\$46.00	\$828.00
34	DRIVEWAY, GRANULAR	45 TON	\$40.00	\$1,800.00	\$45.20	\$2,034.00	\$36.00	\$1,620.00	\$35.00	\$1,575.00
35	FULL DEPTH FINISH PATCH, PCC	90 SY	\$120.00	\$10,800.00	\$135.00	\$12,150.00	\$54.00	\$4,860.00	\$120.00	\$10,800.00
36	PAVEMENT SCARIFICATION	1972 SY	\$8.00	\$15,776.00	\$11.50	\$22,678.00	\$5.00	\$9,860.00	\$5.00	\$9,860.00
37	PAVEMENT REMOVAL	3680 SY	\$15.00	\$55,200.00	\$6.00	\$22,080.00	\$10.00	\$36,800.00	\$10.00	\$36,800.00
38	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	40.18 STA	\$50.00	\$2,009.00	\$45.00	\$1,808.10	\$36.00	\$1,446.48	\$54.00	\$2,169.72
39	PAINTED PAVEMENT MARKING, DURABLE (EPOXY)	6.96 STA	\$340.00	\$2,366.40	\$700.00	\$4,872.00	\$220.00	\$1,531.20	\$850.00	\$5,916.00
40	INLAY PAVEMENT MARKINGS, PROFILED MARKING TAPE	40.18 STA	\$450.00	\$18,081.00	\$425.00	\$17,076.50	\$550.00	\$22,099.00	\$500.00	\$20,090.00
41	GROOVED-IN PAVEMENT MARKINGS, PROFILED MARKING TAPE	21.48 STA	\$450.00	\$9,666.00	\$225.00	\$4,833.00	\$360.00	\$7,732.80	\$270.00	\$5,799.60
42	INLAY PRE-CUT SYMBOLS AND LEGENDS, INTERSECTION MARKING TAF	2 EACH	\$500.00	\$1,000.00	\$780.00	\$1,560.00	\$400.00	\$800.00	\$950.00	\$1,900.00

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
43	GROOVED-IN PRE-CUT SYMBOLS AND LEGENDS, INTERSECTION MARK	6 EACH	\$500.00	\$3,000.00	\$275.00	\$1,650.00	\$350.00	\$2,100.00	\$330.00	\$1,980.00
44	GROOVES CUT FOR PAVEMENT MARKINGS	28.44 STA	\$150.00	\$4,266.00	\$225.00	\$6,399.00	\$85.00	\$2,417.40	\$270.00	\$7,678.80
45	GROOVES CUT FOR SYMBOLS AND LEGENDS	6 EACH	\$250.00	\$1,500.00	\$175.00	\$1,050.00	\$100.00	\$600.00	\$210.00	\$1,260.00
46	TRAFFIC CONTROL	1 LS	\$15,000.00	\$15,000.00	\$20,000.00	\$20,000.00	\$22,000.00	\$22,000.00	\$14,300.00	\$14,300.00
47	FLAGGERS, CERTIFIED	10 DAY	\$500.00	\$5,000.00	\$1,000.00	\$10,000.00	\$45.00	\$450.00	\$450.00	\$4,500.00
48	SOD	220 SQ	\$90.00	\$19,800.00	\$72.50	\$15,950.00	\$73.00	\$16,060.00	\$100.00	\$22,000.00
49	STORM WATER POLLUTION PREVENTION	1 LS	\$2,000.00	\$2,000.00	\$5,000.00	\$5,000.00	\$3,500.00	\$3,500.00	\$3,500.00	\$3,500.00
50	FILTER SOCK, 9 INCH DIA.	1810 LF	\$2.50	\$4,525.00	\$3.00	\$5,430.00	\$3.00	\$5,430.00	\$2.00	\$3,620.00
51	FILTER SOCK, REMOVAL	1810 LF	\$1.00	\$1,810.00	\$0.25	\$452.50	\$1.00	\$1,810.00	\$0.10	\$181.00
52	EROSION CONTROL MULCHING, HYDROMULCHING	0.5 ACRE	\$5,000.00	\$2,500.00	\$1,500.00	\$750.00	\$1,500.00	\$750.00	\$2,800.00	\$1,400.00
53	INLET PROTECTION DEVICE	7 EACH	\$500.00	\$3,500.00	\$150.00	\$1,050.00	\$150.00	\$1,050.00	\$200.00	\$1,400.00
54	CHAIN LINK FENCE, 48 IN.	51 LF	\$25.00	\$1,275.00	\$32.00	\$1,632.00	\$6.00	\$306.00	\$42.00	\$2,142.00
55	REMOVAL OF FENCE	51 LF	\$15.00	\$765.00	\$5.75	\$293.25	\$32.00	\$1,632.00	\$10.00	\$510.00
56	MODULAR BLOCK RETAINING WALL	605 SF	\$30.00	\$18,150.00	\$30.00	\$18,150.00	\$30.00	\$18,150.00	\$50.00	\$30,250.00
57	CONCRETE STEPS, TYPE A	20 SF	\$150.00	\$3,000.00	\$270.00	\$5,400.00	\$105.00	\$2,100.00	\$150.00	\$3,000.00
58	CONCRETE STEPS, TYPE B	36 SF	\$150.00	\$5,400.00	\$195.00	\$7,020.00	\$153.00	\$5,508.00	\$150.00	\$5,400.00
59	HANDRAIL, BLACK STEEL PIPE	25 LF	\$100.00	\$2,500.00	\$200.00	\$5,000.00	\$100.00	\$2,500.00	\$100.00	\$2,500.00
60	REMOVAL OF CONCRETE STEPS	23 SF	\$30.00	\$690.00	\$100.00	\$2,300.00	\$96.00	\$2,208.00	\$50.00	\$1,150.00
61	MOBILIZATION	1 LS	\$56,550.60	\$56,550.60	\$65,000.00	\$65,000.00	\$141,589.12	\$141,589.12	\$100,500.00	\$100,500.00
62	TREE PROTECTION FENCE, 4' HIGH	165 LF	\$5.00	\$825.00	\$3.50	\$577.50	\$4.00	\$660.00	\$4.00	\$660.00
63	TREE TRUNK PROTECTION	10 EACH	\$350.00	\$3,500.00	\$175.00	\$1,750.00	\$150.00	\$1,500.00	\$100.00	\$1,000.00
64	NEW STOP BOX HOUSING	3 EACH	\$400.00	\$1,200.00	\$250.00	\$750.00	\$280.00	\$840.00	\$350.00	\$1,050.00
65	NEW STOP BOX ROD	3 EACH	\$400.00	\$1,200.00	\$250.00	\$750.00	\$250.00	\$750.00	\$40.00	\$120.00
66	RELOCATION OF WATER SERVICE	2 EACH	\$1,500.00	\$3,000.00	\$3,000.00	\$6,000.00	\$1,700.00	\$3,400.00	\$3,500.00	\$7,000.00
67	LOOP DETECTOR REPLACEMENT, 6' X 8'	2 EACH	\$1,200.00	\$2,400.00	\$1,500.00	\$3,000.00	\$950.00	\$1,900.00	\$800.00	\$1,600.00
68	LOOP DETECTOR REPLACEMENT, 6' X 20'	4 EACH	\$1,000.00	\$4,000.00	\$1,100.00	\$4,400.00	\$1,100.00	\$4,400.00	\$1,000.00	\$4,000.00
69	WATER MAIN ALTERATION NO. 1	1 EACH	\$8,000.00	\$8,000.00	\$6,900.00	\$6,900.00	\$7,900.00	\$7,900.00	\$12,000.00	\$12,000.00
70	REMOVE AND REPLACE FIRE HYDRANT	1 EACH	\$6,000.00	\$6,000.00	\$6,600.00	\$6,600.00	\$7,200.00	\$7,200.00	\$8,500.00	\$8,500.00
TOTAL CONSTRUCTION COST				\$880,000.00		\$825,698.35		\$830,000.00		\$836,407.12
PERCENT OF ENGINEER'S ESTIMATE						-6.17%		-5.68%		-4.95%

55

BID DATE: 12/19/17

TABULATED BY: M. RADERMACHER APPROVED BY: _____
CHECKED BY: _____

OMG Midwest, Inc. dba
Des Moines Asphalt & Paving
Ankeny, IA

Rognes Corporation
Ankeny, IA

BID SECURITY
10% Bid Bond

BID SECURITY
10% Bid Bond

CONTRACTOR'S BID TABULATION
PROJECT: 31ST STREET RECONSTRUCTION FROM I-235 TO UNIVERSITY AVENUE

-----ESTIMATE-----

BID PRICE

BID PRICE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	CLEARING AND GRUBBING	1 LS	\$4,000.00	\$4,000.00	\$10,000.00	\$10,000.00	\$65,000.00	\$65,000.00
2	TOPSOIL, OFF - SITE	190 CY	\$55.00	\$10,450.00	\$36.75	\$6,982.50	\$55.00	\$10,450.00
3	EXCAVATION, CLASS 10	390 CY	\$30.00	\$11,700.00	\$15.75	\$6,142.50	\$26.00	\$10,140.00
4	SUBGRADE PREPARATION, 6 IN. DEPTH	1340 SY	\$5.00	\$6,700.00	\$3.89	\$5,212.60	\$6.00	\$8,040.00
5	SUBGRADE TREATMENT - GEOGRID	100 SY	\$5.00	\$500.00	\$3.15	\$315.00	\$8.00	\$800.00
6	SUBGRADE TREATMENT - FLY ASH / LIME	2840 SY	\$20.00	\$56,800.00	\$16.55	\$47,002.00	\$18.00	\$51,120.00
7	SUBBASE, MODIFIED	1340 SY	\$13.00	\$17,420.00	\$13.45	\$18,023.00	\$15.00	\$20,100.00
8	SANITARY SEWER GRAVITY MAIN, TRENCHED, 8" DIA.	27 LF	\$95.00	\$2,565.00	\$300.00	\$8,100.00	\$345.00	\$9,315.00
9	SANITARY SEWER GRAVITY MAIN, TRENCHED, 12" DIA.	39 LF	\$100.00	\$3,900.00	\$325.50	\$12,694.50	\$350.00	\$13,650.00
10	REMOVAL OF SANITARY SEWER, VCP, 12" DIA AND LESS	66 LF	\$25.00	\$1,650.00	\$26.25	\$1,732.50	\$30.00	\$1,980.00
11	STORM SEWER, TRENCHED, 2000D RCP, 15 IN.	152 LF	\$75.00	\$11,400.00	\$126.00	\$19,152.00	\$165.00	\$25,080.00
12	STORM SEWER, TRENCHED, 2000D RCP, 24 IN.	363 LF	\$120.00	\$43,560.00	\$152.25	\$55,266.75	\$176.00	\$63,888.00
13	STORM SEWER ABANDONMENT, FILL AND PLUG	83 LF	\$25.00	\$2,075.00	\$31.50	\$2,614.50	\$15.00	\$1,245.00
14	MANHOLE, SW-301, 48 IN.	2 EACH	\$7,000.00	\$14,000.00	\$10,395.00	\$20,790.00	\$6,500.00	\$13,000.00
15	INTAKE, SW-501	4 EACH	\$3,500.00	\$14,000.00	\$4,620.00	\$18,480.00	\$4,400.00	\$17,600.00
16	INTAKE, SW-503	2 EACH	\$5,000.00	\$10,000.00	\$7,140.00	\$14,280.00	\$6,500.00	\$13,000.00
17	INTAKE, SW-505	1 EACH	\$5,500.00	\$5,500.00	\$7,560.00	\$7,560.00	\$6,800.00	\$6,800.00
18	INTAKE, SW-506	1 EACH	\$6,000.00	\$6,000.00	\$9,975.00	\$9,975.00	\$9,500.00	\$9,500.00
19	REMOVE INTAKE OR MANHOLE	6 EACH	\$1,000.00	\$6,000.00	\$840.00	\$5,040.00	\$850.00	\$5,100.00
20	PAVEMENT, PCC, 7 IN.	179 SY	\$75.00	\$13,425.00	\$120.00	\$21,480.00	\$75.00	\$13,425.00
21	CURB AND GUTTER, PCC, 8 IN	2100 LF	\$25.00	\$52,500.00	\$22.00	\$46,200.00	\$18.00	\$37,800.00
22	HMA HT SURFACE, 1/2" MIX, NO FRIC, PG 58-28H	450 TON	\$125.00	\$56,250.00	\$85.00	\$38,250.00	\$80.00	\$36,000.00
23	PAVEMENT, HMA HT, 6 1/2 IN. THICK	3100 SY	\$50.00	\$155,000.00	\$30.00	\$93,000.00	\$30.00	\$93,000.00
24	HMA PAVEMENT SAMPLES AND TESTING	1 LS	\$10,000.00	\$10,000.00	\$3,500.00	\$3,500.00	\$550.00	\$550.00
25	CLEANING AND PREPARATION OF BASE	0.1 MILE	\$15,000.00	\$1,500.00	\$20,000.00	\$2,000.00	\$2,500.00	\$250.00
26	REMOVAL OF SIDEWALK	360 SY	\$15.00	\$5,400.00	\$9.45	\$3,402.00	\$10.00	\$3,600.00
27	REMOVAL OF DRIVEWAY	310 SY	\$15.00	\$4,650.00	\$9.45	\$2,929.50	\$10.00	\$3,100.00
28	SIDEWALK, PCC, 4 IN. THICK	250 SY	\$50.00	\$12,500.00	\$78.75	\$19,687.50	\$48.00	\$12,000.00
29	SIDEWALK, PCC, 6 IN. THICK	135 SY	\$80.00	\$10,800.00	\$136.50	\$18,427.50	\$135.00	\$18,225.00
30	DETECTABLE WARNING	180 SF	\$50.00	\$9,000.00	\$63.00	\$11,340.00	\$55.00	\$9,900.00
31	DRIVEWAY, PCC, 6 IN. THICK	230 SY	\$70.00	\$16,100.00	\$70.00	\$16,100.00	\$70.00	\$16,100.00
32	DRIVEWAY, PCC, 7 IN. THICK	60 SY	\$80.00	\$4,800.00	\$111.00	\$6,660.00	\$75.00	\$4,500.00
33	DRIVEWAY, HMA, 7 IN. THICK	18 SY	\$100.00	\$1,800.00	\$104.00	\$1,872.00	\$48.00	\$864.00
34	DRIVEWAY, GRANULAR	45 TON	\$40.00	\$1,800.00	\$31.50	\$1,417.50	\$30.00	\$1,350.00
35	FULL DEPTH FINISH PATCH, PCC	90 SY	\$120.00	\$10,800.00	\$141.75	\$12,757.50	\$115.00	\$10,350.00
36	PAVEMENT SCARIFICATION	1972 SY	\$8.00	\$15,776.00	\$3.50	\$6,902.00	\$4.25	\$8,381.00
37	PAVEMENT REMOVAL	3680 SY	\$15.00	\$55,200.00	\$17.00	\$62,560.00	\$14.00	\$51,520.00
38	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	40.18 STA	\$50.00	\$2,009.00	\$46.00	\$1,848.28	\$45.00	\$1,808.10
39	PAINTED PAVEMENT MARKING, DURABLE (EPOXY)	6.96 STA	\$340.00	\$2,366.40	\$725.00	\$5,046.00	\$700.00	\$4,872.00
40	INLAY PAVEMENT MARKINGS, PROFILED MARKING TAPE	40.18 STA	\$450.00	\$18,081.00	\$430.00	\$17,277.40	\$425.00	\$17,076.50
41	GROOVED-IN PAVEMENT MARKINGS, PROFILED MARKING TAPE	21.48 STA	\$450.00	\$9,666.00	\$230.00	\$4,940.40	\$225.00	\$4,833.00
42	INLAY PRE-CUT SYMBOLS AND LEGENDS, INTERSECTION MARKING TAF	2 EACH	\$500.00	\$1,000.00	\$800.00	\$1,600.00	\$780.00	\$1,560.00

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
43	GROOVED-IN PRE-CUT SYMBOLS AND LEGENDS, INTERSECTION MARKI	6 EACH	\$500.00	\$3,000.00	\$300.00	\$1,800.00	\$275.00	\$1,650.00
44	GROOVES CUT FOR PAVEMENT MARKINGS	28.44 STA	\$150.00	\$4,266.00	\$250.00	\$7,110.00	\$225.00	\$6,399.00
45	GROOVES CUT FOR SYMBOLS AND LEGENDS	6 EACH	\$250.00	\$1,500.00	\$200.00	\$1,200.00	\$175.00	\$1,050.00
46	TRAFFIC CONTROL	1 LS	\$15,000.00	\$15,000.00	\$12,140.44	\$12,140.44	\$12,500.00	\$12,500.00
47	FLAGGERS, CERTIFIED	10 DAY	\$500.00	\$5,000.00	\$450.00	\$4,500.00	\$450.00	\$4,500.00
48	SOD	220 SQ	\$90.00	\$19,800.00	\$75.00	\$16,500.00	\$60.00	\$13,200.00
49	STORM WATER POLLUTION PREVENTION	1 LS	\$2,000.00	\$2,000.00	\$3,600.00	\$3,600.00	\$3,500.00	\$3,500.00
50	FILTER SOCK, 9 INCH DIA.	1810 LF	\$2.50	\$4,525.00	\$3.15	\$5,701.50	\$2.00	\$3,620.00
51	FILTER SOCK, REMOVAL	1810 LF	\$1.00	\$1,810.00	\$0.50	\$905.00	\$0.25	\$452.50
52	EROSION CONTROL MULCHING, HYDROMULCHING	0.5 ACRE	\$5,000.00	\$2,500.00	\$1,600.00	\$800.00	\$2,000.00	\$1,000.00
53	INLET PROTECTION DEVICE	7 EACH	\$500.00	\$3,500.00	\$160.00	\$1,120.00	\$150.00	\$1,050.00
54	CHAIN LINK FENCE, 48 IN.	51 LF	\$25.00	\$1,275.00	\$32.75	\$1,670.25	\$35.00	\$1,785.00
55	REMOVAL OF FENCE	51 LF	\$15.00	\$765.00	\$6.00	\$306.00	\$6.00	\$306.00
56	MODULAR BLOCK RETAINING WALL	605 SF	\$30.00	\$18,150.00	\$33.00	\$19,965.00	\$20.00	\$12,100.00
57	CONCRETE STEPS, TYPE A	20 SF	\$150.00	\$3,000.00	\$285.00	\$5,700.00	\$150.00	\$3,000.00
58	CONCRETE STEPS, TYPE B	36 SF	\$150.00	\$5,400.00	\$204.75	\$7,371.00	\$150.00	\$5,400.00
59	HANDRAIL, BLACK STEEL PIPE	25 LF	\$100.00	\$2,500.00	\$300.00	\$7,500.00	\$125.00	\$3,125.00
60	REMOVAL OF CONCRETE STEPS	23 SF	\$30.00	\$690.00	\$52.50	\$1,207.50	\$45.00	\$1,035.00
61	MOBILIZATION	1 LS	\$56,550.60	\$56,550.60	\$55,000.00	\$55,000.00	\$75,000.00	\$75,000.00
62	TREE PROTECTION FENCE, 4' HIGH	165 LF	\$5.00	\$825.00	\$4.00	\$660.00	\$5.00	\$825.00
63	TREE TRUNK PROTECTION	10 EACH	\$350.00	\$3,500.00	\$360.00	\$3,600.00	\$50.00	\$500.00
64	NEW STOP BOX HOUSING	3 EACH	\$400.00	\$1,200.00	\$367.50	\$1,102.50	\$300.00	\$900.00
65	NEW STOP BOX ROD	3 EACH	\$400.00	\$1,200.00	\$315.00	\$945.00	\$300.00	\$900.00
66	RELOCATION OF WATER SERVICE	2 EACH	\$1,500.00	\$3,000.00	\$1,680.00	\$3,360.00	\$2,600.00	\$5,200.00
67	LOOP DETECTOR REPLACEMENT, 6' X 8'	2 EACH	\$1,200.00	\$2,400.00	\$1,000.00	\$2,000.00	\$1,500.00	\$3,000.00
68	LOOP DETECTOR REPLACEMENT, 6' X 20'	4 EACH	\$1,000.00	\$4,000.00	\$1,075.00	\$4,300.00	\$2,000.00	\$8,000.00
69	WATER MAIN ALTERATION NO. 1	1 EACH	\$8,000.00	\$8,000.00	\$9,765.00	\$9,765.00	\$10,000.00	\$10,000.00
70	REMOVE AND REPLACE FIRE HYDRANT	1 EACH	\$6,000.00	\$6,000.00	\$9,975.00	\$9,975.00	\$7,800.00	\$7,800.00
TOTAL CONSTRUCTION COST				\$880,000.00		\$858,364.62		\$884,670.10
PERCENT OF ENGINEER'S ESTIMATE						-2.46%		+0.53%

SS