

CITY OF RAPID CITY CONSTRUCTION CHANGE ORDER #2
CLIFF DRIVE SANITARY SEWER EXTENSION
PROJECT NO. SS09-1830 / CIP NO. 50778
AUGUST 25, 2011
ORIGINAL CONTRACT AMOUNT: \$539,053.88
CONTRACTOR: R.C.S. CONSTRUCTION, INC.

LINE ITEM	DESCRIPTION	UNIT	CURRENT CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	ADJUSTED QUANTITY	ADJUSTED PRICE	NET CHANGE
1	Mobilization	LS	1.00	\$37,000.00	\$37,000.00	1.00	\$37,000.00	\$0.00
2	Construction Staking	LS	1.00	\$7,800.00	\$7,800.00	1.00	\$7,800.00	\$0.00
3	AASHTO T-180 Soil Test	EA	6.00	\$142.00	\$852.00	1.00	\$142.00	(\$710.00)
4	Traffic Control Plan	LS	1.00	\$966.00	\$966.00	1.00	\$966.00	\$0.00
5	Traffic Control	LS	1.00	\$4,700.00	\$4,700.00	1.00	\$4,700.00	\$0.00
6	Incidental	LS	1.00	\$10,800.00	\$10,800.00	1.00	\$10,800.00	\$0.00
7	Sawing, Asphalt Pavement	LF	1,714.00	\$0.96	\$1,645.44	1,605.00	\$1,540.80	(\$104.64)
8	Remove AC Pavement	SY	1,767.00	\$2.60	\$4,594.20	2,388.00	\$6,208.80	\$1,614.60
9	Excavation, Rock (Trench)	CY	580.00	\$184.00	\$106,720.00	658.00	\$121,072.00	\$14,352.00
10	Imported Backfill Material (Trench)	CY	230.00	\$13.00	\$2,990.00	0.00	\$0.00	(\$2,990.00)
11	Type I Bedding Material	TON	50.00	\$18.00	\$900.00	0.00	\$0.00	(\$900.00)
12	Type II Foundation Material	TON	50.00	\$21.00	\$1,050.00	0.00	\$0.00	(\$1,050.00)
13	Type III Foundation Material	TON	50.00	\$21.00	\$1,050.00	0.00	\$0.00	(\$1,050.00)
14	Controlled Low Strength Backfill Material (Trench)	CY	15.00	\$120.00	\$1,800.00	8.00	\$960.00	(\$840.00)
15	8" PVC Sewer Main (0' - 6')	LF	47.00	\$22.00	\$1,034.00	47.00	\$1,034.00	\$0.00
16	8" PVC Sewer Main (6' - 8')	LF	254.00	\$22.00	\$5,588.00	254.00	\$5,588.00	\$0.00
17	8" PVC Sewer Main (8' - 10')	LF	412.00	\$22.00	\$9,064.00	384.00	\$8,448.00	(\$616.00)
18	8" PVC Sewer Main (10' - 12')	LF	236.00	\$22.00	\$5,192.00	217.00	\$4,774.00	(\$418.00)
19	8" PVC Sewer Main (12' - 14')	LF	195.00	\$24.00	\$4,680.00	195.00	\$4,680.00	\$0.00
20	8" PVC Sewer Main (14' - 16')	LF	256.00	\$25.00	\$6,400.00	256.00	\$6,400.00	\$0.00
21	8" PVC Sewer Main (16' - 18')	LF	133.00	\$26.00	\$3,458.00	133.00	\$3,458.00	\$0.00
22	4" PVC Sewer Service Line	LF	253.00	\$20.00	\$5,060.00	253.00	\$5,060.00	\$0.00
23	Drop Manhole, 48"	EA	2.00	\$3,200.00	\$6,400.00	2.00	\$6,400.00	\$0.00
24	Standard Manhole, 60"	EA	1.00	\$4,100.00	\$4,100.00	1.00	\$4,100.00	\$0.00
25	Standard Manhole, 48"	EA	6.00	\$2,700.00	\$16,200.00	6.00	\$16,200.00	\$0.00
26	Termination Manhole, 48"	EA	1.00	\$2,600.00	\$2,600.00	1.00	\$2,600.00	\$0.00

LINE ITEM	DESCRIPTION	UNIT	CURRENT CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	ADJUSTED QUANTITY	ADJUSTED PRICE	NET CHANGE
27	Extra Manhole Depth, 48"	VF	43.40	\$112.00	\$4,860.80	32.40	\$3,628.80	(\$1,232.00)
28	Extra Manhole Depth, 60"	VF	1.00	\$260.00	\$260.00	1.00	\$260.00	\$0.00
29	Connect New Sewer Service	EA	10.00	\$193.00	\$1,930.00	10.00	\$1,930.00	\$0.00
30	Connect To Existing Sewer Main	EA	2.00	\$250.00	\$500.00	2.00	\$500.00	\$0.00
31	Remove Manhole	EA	1.00	\$800.00	\$800.00	1.00	\$800.00	\$0.00
32	Bypass Pumping	LS	1.00	\$4,700.00	\$4,700.00	0.00	\$0.00	(\$4,700.00)
33	AC Patching, Class G Type I PG64-28	TON	547.00	\$118.00	\$64,546.00	571.10	\$67,389.80	\$2,843.80
34	Aggregate Base Course 3/4"	TON	656.00	\$18.00	\$11,808.00	738.60	\$13,294.80	\$1,486.80
35	Remove PCC Driveway Pavement	SY	40.00	\$3.00	\$120.00	79.00	\$237.00	\$117.00
36	Remove Gravel Surfacing	SY	365.00	\$7.00	\$2,555.00	0.00	\$0.00	(\$2,555.00)
37	PCC Driveway Pavement, 6" Nonreinforced	SY	40.00	\$62.00	\$2,480.00	79.00	\$4,898.00	\$2,418.00
38	Gravel Surfacing, 6" Thick, Permanent	TON	136.00	\$18.00	\$2,448.00	136.00	\$2,448.00	\$0.00
39	Clearing and Grubbing	LS	1.00	\$977.00	\$977.00	1.00	\$977.00	\$0.00
40	Topsoil, Stockpile & Replace	CY	175.00	\$5.00	\$875.00	30.00	\$150.00	(\$725.00)
41	Hauling & Placing Co-Compost	TON	16.00	\$47.00	\$752.00	0.00	\$0.00	(\$752.00)
42	Remove Tree	EA	4.00	\$600.00	\$2,400.00	0.00	\$0.00	(\$2,400.00)
43	Evergreen Tree (5')	EA	4.00	\$511.00	\$2,044.00	0.00	\$0.00	(\$2,044.00)
44	Seeding, Fertilizing, Mulching - Non-Irrigated Lawn Mix	SY	688.00	\$1.70	\$1,169.60	688.00	\$1,169.60	\$0.00
45	Seeding, Road Ditch Mix	SY	173.00	\$1.70	\$294.10	173.00	\$294.10	\$0.00
46	Sodding	SY	117.00	\$6.00	\$702.00	117.00	\$702.00	\$0.00
47	Erosion Control and Water Pollution Control Plan	LS	1.00	\$570.00	\$570.00	1.00	\$570.00	\$0.00
48	Erosion Control and Water Pollution Control	LS	1.00	\$2,950.00	\$2,950.00	1.00	\$2,950.00	\$0.00
49	Erosion Control, Inlet Protection	EA	5.00	\$330.00	\$1,650.00	0.00	\$0.00	(\$1,650.00)
50	Rock Construction Entrance	TON	200.00	\$18.00	\$3,600.00	0.00	\$0.00	(\$3,600.00)
51	Erosion Control, Perimeter Control	LF	1,035.00	\$4.50	\$4,657.50	1,035.00	\$4,657.50	\$0.00
52	Remove Pipe Culvert	LF	48.00	\$12.00	\$576.00	48.00	\$576.00	\$0.00
53	12" CMP	LF	16.00	\$27.00	\$432.00	21.00	\$567.00	\$135.00
54	15" CMP	LF	32.00	\$31.00	\$992.00	0.00	\$0.00	(\$992.00)
55	15" CMP Flared End Section	EA	2.00	\$185.00	\$370.00	0.00	\$0.00	(\$370.00)

LINE ITEM	DESCRIPTION	UNIT	CURRENT CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	ADJUSTED QUANTITY	ADJUSTED PRICE	NET CHANGE
56	Mobilization	LS	1.00	\$2,000.00	\$2,000.00	1.00	\$2,000.00	\$0.00
57	Construction Staking	LS	1.00	\$1,000.00	\$1,000.00	1.00	\$1,000.00	\$0.00
58	AASHTO T-180 Soil Test	EA	2.00	\$142.00	\$284.00	0.00	\$0.00	(\$284.00)
59	Traffic Control	LS	1.00	\$284.00	\$284.00	1.00	\$284.00	\$0.00
60	Incidental	LS	1.00	\$1,400.00	\$1,400.00	1.00	\$1,400.00	\$0.00
61	Sawing, Asphalt Pavement	LF	234.00	\$0.96	\$224.64	234.00	\$224.64	\$0.00
62	Remove AC Pavement	SY	550.00	\$2.58	\$1,419.00	550.00	\$1,419.00	\$0.00
63	Excavation, Rock (Trench)	CY	20.00	\$184.00	\$3,680.00	203.00	\$37,352.00	\$33,672.00
64	Imported Backfill Material (Trench)	CY	20.00	\$13.00	\$260.00	0.00	\$0.00	(\$260.00)
65	Type I Bedding Material	TON	15.00	\$18.00	\$270.00	0.00	\$0.00	(\$270.00)
66	Type II Foundation Material	TON	15.00	\$21.00	\$315.00	0.00	\$0.00	(\$315.00)
67	Type III Foundation Material	TON	15.00	\$21.00	\$315.00	0.00	\$0.00	(\$315.00)
68	Controlled Low Strength Backfill Material (Trench)	CY	5.00	\$120.00	\$600.00	0.00	\$0.00	(\$600.00)
69	8" PVC Sewer Main (8' - 10')	LF	41.00	\$22.00	\$902.00	41.00	\$902.00	\$0.00
70	8" PVC Sewer Main (10' - 12')	LF	291.00	\$22.00	\$6,402.00	291.00	\$6,402.00	\$0.00
71	8" PVC Sewer Main (12' - 14')	LF	148.00	\$24.00	\$3,552.00	148.00	\$3,552.00	\$0.00
72	4" PVC Sewer Service Line	LF	107.00	\$20.00	\$2,140.00	107.00	\$2,140.00	\$0.00
73	Standard Manhole, 48"	EA	3.00	\$2,765.00	\$8,295.00	2.00	\$5,530.00	(\$2,765.00)
74	Extra Manhole Depth, 48"	VF	16.90	\$135.00	\$2,281.50	12.45	\$1,680.75	(\$600.75)
75	Connect New Sewer Service	EA	4.00	\$160.00	\$640.00	4.00	\$640.00	\$0.00
76	Connect To Existing Manhole	EA	1.00	\$243.00	\$243.00	1.00	\$243.00	\$0.00
77	AC Patching, Class G Type I PG64-28	TON	170.00	\$123.00	\$20,910.00	221.20	\$27,207.60	\$6,297.60
78	Aggregate Base Course 3/4"	TON	205.00	\$18.00	\$3,690.00	293.10	\$5,275.80	\$1,585.80
79	Clearing and Grubbing	LS	1.00	\$1,050.00	\$1,050.00	1.00	\$1,050.00	\$0.00
80	Topsoil, Stockpile & Replace	CY	55.00	\$8.00	\$440.00	25.00	\$200.00	(\$240.00)
81	Hauling & Placing Co-Compost	TON	5.00	\$47.00	\$235.00	0.00	\$0.00	(\$235.00)
82	Seeding, Fertilizing, Mulching - Non-Irrigated Lawn Mix	SY	328.00	\$1.70	\$557.60	328.00	\$557.60	\$0.00
83	Erosion Control and Water Pollution Control	LS	1.00	\$1,270.00	\$1,270.00	1.00	\$1,270.00	\$0.00
84	Erosion Control, Inlet Protection	EA	1.00	\$330.00	\$330.00	1.00	\$330.00	\$0.00
85	Erosion Control, Perimeter Control	LF	195.00	\$4.00	\$780.00	195.00	\$780.00	\$0.00

LINE ITEM	DESCRIPTION	UNIT	CURRENT CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	ADJUSTED QUANTITY	ADJUSTED PRICE	NET CHANGE
86	Mobilization	LS	1.00	\$8,000.00	\$8,000.00	1.00	\$8,000.00	\$0.00
87	Construction Staking	LS	1.00	\$1,000.00	\$1,000.00	1.00	\$1,000.00	\$0.00
88	AASHTO T-180 Soil Test	EA	2.00	\$142.00	\$284.00	0.00	\$0.00	(\$284.00)
89	Traffic Control	LS	1.00	\$284.00	\$284.00	1.00	\$284.00	\$0.00
90	Incidental	LS	1.00	\$1,420.00	\$1,420.00	1.00	\$1,420.00	\$0.00
91	Sawing, Asphalt Pavement	LF	772.00	\$0.96	\$741.12	772.00	\$741.12	\$0.00
92	Remove AC Pavement	SY	929.00	\$2.60	\$2,415.40	929.00	\$2,415.40	\$0.00
93	Excavation, Rock (Trench)	CY	20.00	\$184.00	\$3,680.00	175.00	\$32,200.00	\$28,520.00
94	Imported Backfill Material (Trench)	CY	20.00	\$13.00	\$260.00	0.00	\$0.00	(\$260.00)
95	Type I Bedding Material	TON	25.00	\$18.00	\$450.00	0.00	\$0.00	(\$450.00)
96	Type II Foundation Material	TON	25.00	\$21.00	\$525.00	0.00	\$0.00	(\$525.00)
97	Type III Foundation Material	TON	25.00	\$21.00	\$525.00	0.00	\$0.00	(\$525.00)
98	Controlled Low Strength Backfill Material (Trench)	CY	5.00	\$120.00	\$600.00	0.00	\$0.00	(\$600.00)
99	8" PVC Sewer Main (0' - 6')	LF	163.00	\$23.00	\$3,749.00	163.00	\$3,749.00	\$0.00
100	8" PVC Sewer Main (6' - 8')	LF	332.00	\$23.00	\$7,636.00	332.00	\$7,636.00	\$0.00
101	8" PVC Sewer Main (8' - 10')	LF	68.00	\$23.00	\$1,564.00	68.00	\$1,564.00	\$0.00
102	8" PVC Sewer Main (10' - 12')	LF	43.00	\$24.00	\$1,032.00	27.00	\$648.00	(\$384.00)
103	8" PVC Sewer Main (12' - 14')	LF	11.00	\$22.00	\$242.00	0.00	\$0.00	(\$242.00)
104	4" PVC Sewer Service Line	LF	165.00	\$20.00	\$3,300.00	165.00	\$3,300.00	\$0.00
105	Standard Manhole, 48"	EA	1.00	\$2,700.00	\$2,700.00	1.00	\$2,700.00	\$0.00
106	Termination Manhole, 48"	EA	1.00	\$2,600.00	\$2,600.00	1.00	\$2,600.00	\$0.00
107	Extra Manhole Depth, 48"	VF	7.80	\$135.00	\$1,053.00	7.00	\$945.00	(\$108.00)
108	Connect New Sewer Service	EA	6.00	\$150.00	\$900.00	6.00	\$900.00	\$0.00
109	Connect to Existing Manhole	EA	1.00	\$360.00	\$360.00	1.00	\$360.00	\$0.00
110	AC Patching, Class G Type I PG64-28	TON	288.00	\$123.00	\$35,424.00	290.50	\$35,731.50	\$307.50
111	Aggregate Base Course 3/4"	TON	345.00	\$18.00	\$6,210.00	493.00	\$8,874.00	\$2,664.00
112	Clearing and Grubbing	LS	1.00	\$1,050.00	\$1,050.00	1.00	\$1,050.00	\$0.00
113	Topsoil, Stockpile & Replace	CY	63.00	\$5.00	\$315.00	63.00	\$315.00	\$0.00
114	Hauling & Placing Co-Compost	TON	6.00	\$47.00	\$282.00	6.00	\$282.00	\$0.00
115	Seeding, Road Ditch Mix	SY	156.00	\$1.70	\$265.20	156.00	\$265.20	\$0.00
116	Sodding	SY	221.00	\$6.00	\$1,326.00	335.00	\$2,010.00	\$684.00

LINE ITEM	DESCRIPTION	UNIT	CURRENT CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	ADJUSTED QUANTITY	ADJUSTED PRICE	NET CHANGE
117	Erosion Control and Water Pollution Control	LS	1.00	\$1,460.00	\$1,460.00	1.00	\$1,460.00	\$0.00
118	Erosion Control, Inlet Protection	EA	1.00	\$330.00	\$330.00	1.00	\$330.00	\$0.00
119	Erosion Control, Perimeter Control	LF	71.00	\$1.44	\$102.24	71.00	\$102.24	\$0.00
120	Mobilization	LS	1.00	\$4,500.00	\$4,500.00	1.00	\$4,500.00	\$0.00
121	Construction Staking	LS	1.00	\$633.00	\$633.00	1.00	\$633.00	\$0.00
122	AASHTO T-180 Soil Test	EA	2.00	\$142.00	\$284.00	0.00	\$0.00	(\$284.00)
123	Traffic Control	LS	1.00	\$284.00	\$284.00	1.00	\$284.00	\$0.00
124	Incidental	LS	1.00	\$400.00	\$400.00	1.00	\$400.00	\$0.00
125	Sawing, Asphalt Pavement	LF	289.00	\$0.96	\$277.44	289.00	\$277.44	\$0.00
126	Remove AC Pavement	SY	396.00	\$2.60	\$1,029.60	396.00	\$1,029.60	\$0.00
127	Excavation, Rock (Trench)	CY	115.00	\$184.00	\$21,160.00	176.00	\$32,384.00	\$11,224.00
128	Imported Backfill Material (Trench)	CY	115.00	\$13.00	\$1,495.00	0.00	\$0.00	(\$1,495.00)
129	Type I Bedding Material	TON	10.00	\$18.00	\$180.00	0.00	\$0.00	(\$180.00)
130	Type II Foundation Material	TON	10.00	\$21.00	\$210.00	0.00	\$0.00	(\$210.00)
131	Type III Foundation Material	TON	10.00	\$21.00	\$210.00	0.00	\$0.00	(\$210.00)
132	Controlled Low Strength Backfill Material (Trench)	CY	5.00	\$120.00	\$600.00	0.00	\$0.00	(\$600.00)
133	8" PVC Sewer Main (12' - 14')	LF	103.00	\$23.00	\$2,369.00	131.00	\$3,013.00	\$644.00
134	8" PVC Sewer Main (14' - 16')	LF	145.00	\$25.00	\$3,625.00	145.00	\$3,625.00	\$0.00
135	4" PVC Sewer Service Line	LF	81.00	\$20.00	\$1,620.00	97.00	\$1,940.00	\$320.00
136	Termination Manhole, 48"	EA	1.00	\$2,600.00	\$2,600.00	1.00	\$2,600.00	\$0.00
137	Extra Manhole Depth, 48"	VF	7.90	\$134.00	\$1,058.60	7.90	\$1,058.60	\$0.00
138	Connect New Sewer Service	EA	3.00	\$230.00	\$690.00	4.00	\$920.00	\$230.00
139	Connect to Existing Manhole	EA	1.00	\$400.00	\$400.00	1.00	\$400.00	\$0.00
140	AC Patching, Class G Type I PG64-28	TON	123.00	\$123.00	\$15,129.00	230.80	\$28,388.40	\$13,259.40
141	Aggregate Base Course 3/4"	TON	147.00	\$18.00	\$2,646.00	210.80	\$3,794.40	\$1,148.40
142	Remove PCC Driveway Pavement	SY	79.00	\$2.60	\$205.40	79.00	\$205.40	\$0.00
143	PCC Driveway Pavement, 6"	SY	79.00	\$61.00	\$4,819.00	79.00	\$4,819.00	\$0.00
144	Clearing and Grubbing	LS	1.00	\$1,050.00	\$1,050.00	1.00	\$1,050.00	\$0.00
145	Topsoil, Stockpile & Replace	CY	21.00	\$5.50	\$115.50	21.00	\$115.50	\$0.00
146	Hauling & Placing Co-Compost	TON	2.00	\$1,780.00	\$3,560.00	2.00	\$3,560.00	\$0.00
147	Sodding	SY	126.00	\$6.00	\$756.00	126.00	\$756.00	\$0.00

LINE ITEM	DESCRIPTION	UNIT	CURRENT CONTRACT QUANTITY	UNIT PRICE	EXTENDED PRICE	ADJUSTED QUANTITY	ADJUSTED PRICE	NET CHANGE
148	Erosion Control and Water Pollution	LS	1.00	\$1,400.00	\$1,400.00	1.00	\$1,400.00	\$0.00
149	Erosion Control, Inlet Protection	EA	1.00	\$330.00	\$330.00	0.00	\$0.00	(\$330.00)
TOTAL					\$606,153.88		\$687,407.39	\$81,253.51

C.C.O. HISTORY INCREASE/(DECREASE)		PRIOR ADJUSTED CONTRACT PRICE :		\$606,153.88
CCO #1	\$67,100.00	NET INCREASE/(DECREASE):		\$81,253.51
CCO #2	\$81,253.51	ADJUSTED CONTRACT PRICE:		\$687,407.39
		CHANGE TO DATE:		\$148,353.51

Ray Dageman _____ DATE *9-6-11*

CONTRACTOR: RCS Construction, PO Box 9337, RC, SD 57709 342-3787

Klare Schroeder _____ DATE *8/31/11*

PROJECT MANAGER: KLARE SCHROEDER, P.E.

Dale Tech _____ DATE *9-2-11*

CITY ENGINEER: DALE TECH, P.E./L.S.

MAYOR: SAM KOOIKER _____ DATE

FINANCE: PAULINE SUMPTION _____ DATE

CONTRACT TIME CHANGE +/-: 0 NEW CONTRACT TIME: Days

City Staff recommends approval of this Change Order #2 to RCS Construction for an increase of \$81,253.51 based on unit pricing with the following appropriation:

Initial Funding	\$231,023.09	\$282,361.56	\$25,669.23		\$539,053.88
Fund Type	Sanitary Sewer	Sewer Grant	Sewer City		
Department	0834	0834	0834		
Line Item	4380	4380	4380		
Fund	0604	0604	0604		
CCO #1	\$28,757.14	\$35,147.62	\$3,195.24		\$67,100.00
CCO #2	\$34,822.94	\$42,561.34	\$3,869.23		\$81,253.51
Adjusted Funding	\$294,603.17	\$360,070.52	\$32,733.70	\$687,407.39	\$687,407.39

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LINE ITEM	DESCRIPTION	REASON FOR CHANGE
3	AASHTO T-180 Soil Test	Material did not change so only needed one soil test.
7	Sawing, Asphalt Pavement	There was less saving from the blasting. Had to remove full width.
8	Remove AC Pavement	There was more asphalt removed due to the blasting.
9	Excavation, Rock (Trench)	There was more rock than was shown in bore hole on geotech report.
10	Imported Backfill Material (Trench)	None required.
11	Type I Bedding Material	None required.
12	Type II Foundation Material	None required.
13	Type III Foundation Material	None required.
14	Controlled Low Strength Backfill Material	Less was needed to meet plans and specs.
17	8" PVC Sewer Main (8' - 10')	Shortened up sewer main to avoid more rock excavation and two big trees.
18	8" PVC Sewer Main (10' - 12')	Shortened up sewer main to avoid more rock excavation and two big trees.
27	Extra Manhole Depth, 48"	Eliminated a manhole.
32	Bypass Pumping	None needed.
33	AC Patching, Class G Type I PG64-28	More asphalt was removed due to blasting of rock.
34	Aggregate Base Course 3/4"	More base was needed to go under asphalt due to blasting.
35	Remove PCC Driveway Pavement	More drive was removed due to blasting of rock.
36	Remove Gravel Surfacing	None was removed.
37	PCC Driveway Pavement, 6" Nonreinforced	More had to be replaced due to blasting of rock.
40	Topsoil, Stockpile & Replace	That was all that was available to salvage.

41	Hauling & Placing Co-Compost	None was used.
42	Remove Tree	None were removed.
43	Evergreen Tree (5')	None were replaced.
49	Erosion Control, Inlet Protection	None were used because there were no inlets.
50	Rock Construction Entrance	None was needed.
53	12" CMP	Had to extend pipe.
54	15" CMP	Did not use.
55	15" CMP Flared End Section	Did not use.
58	AASHTO T-180 Soil Test	Used T-180 from base bid.
63	Excavation, Rock (Trench)	The geotech report showed very little rock, and there was much more.
64	Imported Backfill Material (Trench)	None required.
65	Type I Bedding Material	None required.
66	Type II Foundation Material	None required.
67	Type III Foundation Material	None required.
68	Controlled Low Strength Backfill Material	None required.
73	Standard Manhole, 48"	A manhole was eliminated due to realignment.
74	Extra Manhole Depth, 48"	Saved depth when eliminated manhole.
77	AC Patching, Class G Type I PG64-28	More asphalt had to be removed with blasting for rock excavation.
78	Aggregate Base Course 3/4"	More base course had to be used because of blasting for rock excavation.
80	Topsoil, Stockpile & Replace	Less topsoil available because of rock present.
81	Hauling & Placing Co-Compost	None used.
88	AASHTO T-180 Soil Test	None needed on this alternate as previous one used.
93	Excavation, Rock (Trench)	The geotech report showed very little rock, and when excavating, ran into a lot.
94	Imported Backfill Material (Trench)	None used.
95	Type I Bedding Material	None used.

96	Type II Foundation Material	None used.
97	Type III Foundation Material	None used.
98	Controlled Low Strength Backfill Material	None used.
102	8" PVC Sewer Main (10' - 12')	Shortened the run up on this alternate to accomodate customer.
103	8" PVC Sewer Main (12' - 14')	Shortened the run up on this alternate to accomodate customer.
107	Extra Manhole Depth, 48"	When shortened run, lowered manhole.
110	AC Patching, Class G Type I PG64-28	Rock excavation blast took out extra asphalt.
111	Aggregate Base Course 3/4"	Rock excavation blast required more base course.
116	Sodding	Additional service added increased sodding.
122	AASHTO T-180 Soil Test	Used the T-180 from base bid as soil did not change.
127	Excavation, Rock (Trench)	Geotech report showed less than what was actual.
128	Imported Backfill Material (Trench)	None used.
129	Type I Bedding Material	None required.
130	Type II Foundation Material	None required.
131	Type III Foundation Material	None required.
132	Controlled Low Strength Backfill Material	None required.
133	8" PVC Sewer Main (12' - 14')	Sewer was extended to meet customer needs.
135	4" PVC Sewer Service Line	Had to add additional service for customer.
138	Connect New Sewer Service	Had to add additional service for customer.
140	AC Patching, Class G Type I PG64-28	Rock excavation caused asphalt to remove more.
141	Aggregate Base Course 3/4"	Rock excavation caused an over run on base quantities
149	Erosion Control, Inlet Protection	None required as there were no inlets.

PREPARED BY: Klare Schroeder, P.E.

DATE: August 25, 2011

FUNDING TYPE		Sanitary Sewer		Sanitary Sewer (Grant)		Sanitary Sewer (100% City)		
COST CENTER		0834		0834		0834		
LINE ITEM		4380		4380		4380		
FUND		0604		0604		0604		
ITEM NO.	DESCRIPTION OF ITEM	AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT	
1	Mobilization	0.00	43%	0.00	52%	0.00	5%	100%
2	Construction Staking	0.00	43%	0.00	52%	0.00	5%	100%
3	AASHTO T-180 Soil Test	-304.29	43%	-371.90	52%	-33.81	5%	100%
4	Traffic Control Plan	0.00	43%	0.00	52%	0.00	5%	100%
5	Traffic Control	0.00	43%	0.00	52%	0.00	5%	100%
6	Incidental	0.00	43%	0.00	52%	0.00	5%	100%
7	Sawing, Asphalt Pavement	-44.85	43%	-54.81	52%	-4.98	5%	100%
8	Remove AC Pavement	691.97	43%	845.74	52%	76.89	5%	100%
9	Excavation, Rock (Trench)	6,150.86	43%	7,517.71	52%	683.43	5%	100%
10	Imported Backfill Material (Trench)	-1,281.43	43%	-1,566.19	52%	-142.38	5%	100%
11	Type I Bedding Material	-385.71	43%	-471.43	52%	-42.86	5%	100%
12	Type II Foundation Material	-450.00	43%	-550.00	52%	-50.00	5%	100%
13	Type III Foundation Material	-450.00	43%	-550.00	52%	-50.00	5%	100%
14	Controlled Low Strength Backfill Material	-360.00	43%	-440.00	52%	-40.00	5%	100%
15	8" PVC Sewer Main (0' - 6')	0.00	43%	0.00	52%	0.00	5%	100%
16	8" PVC Sewer Main (6' - 8')	0.00	43%	0.00	52%	0.00	5%	100%
17	8" PVC Sewer Main (8' - 10')	-264.00	43%	-322.67	52%	-29.33	5%	100%
18	8" PVC Sewer Main (10' - 12')	-179.14	43%	-218.95	52%	-19.90	5%	100%
19	8" PVC Sewer Main (12' - 14')	0.00	43%	0.00	52%	0.00	5%	100%
20	8" PVC Sewer Main (14' - 16')	0.00	43%	0.00	52%	0.00	5%	100%
21	8" PVC Sewer Main (16' - 18')	0.00	43%	0.00	52%	0.00	5%	100%
22	4" PVC Sewer Service Line	0.00	43%	0.00	52%	0.00	5%	100%
23	Drop Manhole, 48"	0.00	43%	0.00	52%	0.00	5%	100%
24	Standard Manhole, 60"	0.00	43%	0.00	52%	0.00	5%	100%
25	Standard Manhole, 48"	0.00	43%	0.00	52%	0.00	5%	100%
26	Termination Manhole, 48"	0.00	43%	0.00	52%	0.00	5%	100%

27	Extra Manhole Depth, 48"	-528.00	43%	-645.33	52%	-58.67	5%	100%
28	Extra Manhole Depth, 60"	0.00	43%	0.00	52%	0.00	5%	100%
29	Connect New Sewer Service	0.00	43%	0.00	52%	0.00	5%	100%
30	Connect To Existing Sewer Main	0.00	43%	0.00	52%	0.00	5%	100%
31	Remove Manhole	0.00	43%	0.00	52%	0.00	5%	100%
32	Bypass Pumping	-2,014.29	43%	-2,461.90	52%	-223.81	5%	100%
33	AC Patching, Class G Type I PG64-2	1,218.77	43%	1,489.61	52%	135.42	5%	100%
34	Aggregate Base Course 3/4"	637.20	43%	778.80	52%	70.80	5%	100%
35	Remove PCC Driveway Pavement	50.14	43%	61.29	52%	5.57	5%	100%
36	Remove Gravel Surfacing	-1,095.00	43%	-1,338.33	52%	-121.67	5%	100%
37	PCC Driveway Pavement, 6" Nonreir	1,036.29	43%	1,266.57	52%	115.14	5%	100%
38	Gravel Surfacing, 6" Thick, Permane	0.00	43%	0.00	52%	0.00	5%	100%
39	Clearing and Grubbing	0.00	43%	0.00	52%	0.00	5%	100%
40	Topsoil, Stockpile & Replace	-310.71	43%	-379.76	52%	-34.52	5%	100%
41	Hauling & Placing Co-Compost	-322.29	43%	-393.90	52%	-35.81	5%	100%
42	Remove Tree	-1,028.57	43%	-1,257.14	52%	-114.29	5%	100%
43	Evergreen Tree (5')	-876.00	43%	-1,070.67	52%	-97.33	5%	100%
44	Seeding, Fertilizing, Mulching - Non-l	0.00	43%	0.00	52%	0.00	5%	100%
45	Seeding, Road Ditch Mix	0.00	43%	0.00	52%	0.00	5%	100%
46	Sodding	0.00	43%	0.00	52%	0.00	5%	100%
47	Erosion Control and Water Pollution	0.00	43%	0.00	52%	0.00	5%	100%
48	Erosion Control and Water Pollution	0.00	43%	0.00	52%	0.00	5%	100%
49	Erosion Control, Inlet Protection	-707.14	43%	-864.29	52%	-78.57	5%	100%
50	Rock Construction Entrance	-1,542.86	43%	-1,885.71	52%	-171.43	5%	100%
51	Erosion Control, Perimeter Control	0.00	43%	0.00	52%	0.00	5%	100%
52	Remove Pipe Culvert	0.00	43%	0.00	52%	0.00	5%	100%
53	12" CMP	57.86	43%	70.71	52%	6.43	5%	100%
54	15" CMP	-425.14	43%	-519.62	52%	-47.24	5%	100%
55	15" CMP Flared End Section	-158.57	43%	-193.81	52%	-17.62	5%	100%
56	Mobilization	0.00	43%	0.00	52%	0.00	5%	100%
57	Construction Staking	0.00	43%	0.00	52%	0.00	5%	100%
58	AASHTO T-180 Soil Test	-121.71	43%	-148.76	52%	-13.52	5%	100%

59	Traffic Control	0.00	43%	0.00	52%	0.00	5%	100%
60	Incidental	0.00	43%	0.00	52%	0.00	5%	100%
61	Sawing, Asphalt Pavement	0.00	43%	0.00	52%	0.00	5%	100%
62	Remove AC Pavement	0.00	43%	0.00	52%	0.00	5%	100%
63	Excavation, Rock (Trench)	14,430.86	43%	17,637.71	52%	1,603.43	5%	100%
64	Imported Backfill Material (Trench)	-111.43	43%	-136.19	52%	-12.38	5%	100%
65	Type I Bedding Material	-115.71	43%	-141.43	52%	-12.86	5%	100%
66	Type II Foundation Material	-135.00	43%	-165.00	52%	-15.00	5%	100%
67	Type III Foundation Material	-135.00	43%	-165.00	52%	-15.00	5%	100%
68	Controlled Low Strength Backfill Mate	-257.14	43%	-314.29	52%	-28.57	5%	100%
69	8" PVC Sewer Main (8' - 10')	0.00	43%	0.00	52%	0.00	5%	100%
70	8" PVC Sewer Main (10' - 12')	0.00	43%	0.00	52%	0.00	5%	100%
71	8" PVC Sewer Main (12' - 14')	0.00	43%	0.00	52%	0.00	5%	100%
72	4" PVC Sewer Service Line	0.00	43%	0.00	52%	0.00	5%	100%
73	Standard Manhole, 48"	-1,185.00	43%	-1,448.33	52%	-131.67	5%	100%
74	Extra Manhole Depth, 48"	-257.46	43%	-314.68	52%	-28.61	5%	100%
75	Connect New Sewer Service	0.00	43%	0.00	52%	0.00	5%	100%
76	Connect To Existing Manhole	0.00	43%	0.00	52%	0.00	5%	100%
77	AC Patching, Class G Type I PG64-2	2,698.97	43%	3,298.74	52%	299.89	5%	100%
78	Aggregate Base Course 3/4"	679.63	43%	830.66	52%	75.51	5%	100%
79	Clearing and Grubbing	0.00	43%	0.00	52%	0.00	5%	100%
80	Topsoil, Stockpile & Replace	-102.86	43%	-125.71	52%	-11.43	5%	100%
81	Hauling & Placing Co-Compost	-100.71	43%	-123.10	52%	-11.19	5%	100%
82	Seeding, Fertilizing, Mulching - Non-l	0.00	43%	0.00	52%	0.00	5%	100%
83	Erosion Control and Water Pollution	0.00	43%	0.00	52%	0.00	5%	100%
84	Erosion Control, Inlet Protection	0.00	43%	0.00	52%	0.00	5%	100%
85	Erosion Control, Perimeter Control	0.00	43%	0.00	52%	0.00	5%	100%
86	Mobilization	0.00	43%	0.00	52%	0.00	5%	100%
87	Construction Staking	0.00	43%	0.00	52%	0.00	5%	100%
88	AASHTO T-180 Soil Test	-121.71	43%	-148.76	52%	-13.52	5%	100%
89	Traffic Control	0.00	43%	0.00	52%	0.00	5%	100%
90	Incidental	0.00	43%	0.00	52%	0.00	5%	100%
91	Sawing, Asphalt Pavement	0.00	43%	0.00	52%	0.00	5%	100%

92	Remove AC Pavement	0.00	43%	0.00	52%	0.00	5%	100%
93	Excavation, Rock (Trench)	12,222.86	43%	14,939.05	52%	1,358.10	5%	100%
94	Imported Backfill Material (Trench)	-111.43	43%	-136.19	52%	-12.38	5%	100%
95	Type I Bedding Material	-192.86	43%	-235.71	52%	-21.43	5%	100%
96	Type II Foundation Material	-225.00	43%	-275.00	52%	-25.00	5%	100%
97	Type III Foundation Material	-225.00	43%	-275.00	52%	-25.00	5%	100%
98	Controlled Low Strength Backfill Mate	-257.14	43%	-314.29	52%	-28.57	5%	100%
99	8" PVC Sewer Main (0' - 6')	0.00	43%	0.00	52%	0.00	5%	100%
100	8" PVC Sewer Main (6' - 8')	0.00	43%	0.00	52%	0.00	5%	100%
101	8" PVC Sewer Main (8' - 10')	0.00	43%	0.00	52%	0.00	5%	100%
102	8" PVC Sewer Main (10' - 12')	-164.57	43%	-201.14	52%	-18.29	5%	100%
103	8" PVC Sewer Main (12' - 14')	-103.71	43%	-126.76	52%	-11.52	5%	100%
104	4" PVC Sewer Service Line	0.00	43%	0.00	52%	0.00	5%	100%
105	Standard Manhole, 48"	0.00	43%	0.00	52%	0.00	5%	100%
106	Termination Manhole, 48"	0.00	43%	0.00	52%	0.00	5%	100%
107	Extra Manhole Depth, 48"	-46.29	43%	-56.57	52%	-5.14	5%	100%
108	Connect New Sewer Service	0.00	43%	0.00	52%	0.00	5%	100%
109	Connect to Existing Manhole	0.00	43%	0.00	52%	0.00	5%	100%
110	AC Patching, Class G Type I PG64-2	131.79	43%	161.07	52%	14.64	5%	100%
111	Aggregate Base Course 3/4"	1,141.71	43%	1,395.43	52%	126.86	5%	100%
112	Clearing and Grubbing	0.00	43%	0.00	52%	0.00	5%	100%
113	Topsoil, Stockpile & Replace	0.00	43%	0.00	52%	0.00	5%	100%
114	Hauling & Placing Co-Compost	0.00	43%	0.00	52%	0.00	5%	100%
115	Seeding, Road Ditch Mix	0.00	43%	0.00	52%	0.00	5%	100%
116	Sodding	293.14	43%	358.29	52%	32.57	5%	100%
117	Erosion Control and Water Pollution	0.00	43%	0.00	52%	0.00	5%	100%
118	Erosion Control, Inlet Protection	0.00	43%	0.00	52%	0.00	5%	100%
119	Erosion Control, Perimeter Control	0.00	43%	0.00	52%	0.00	5%	100%
120	Mobilization	0.00	43%	0.00	52%	0.00	5%	100%
121	Construction Staking	0.00	43%	0.00	52%	0.00	5%	100%
122	AASHTO T-180 Soil Test	-121.71	43%	-148.76	52%	-13.52	5%	100%
123	Traffic Control	0.00	43%	0.00	52%	0.00	5%	100%
124	Incidental	0.00	43%	0.00	52%	0.00	5%	100%

125	Sawing, Asphalt Pavement	0.00	43%	0.00	52%	0.00	5%	100%
126	Remove AC Pavement	0.00	43%	0.00	52%	0.00	5%	100%
127	Excavation, Rock (Trench)	4,810.29	43%	5,879.24	52%	534.48	5%	100%
128	Imported Backfill Material (Trench)	-640.71	43%	-783.10	52%	-71.19	5%	100%
129	Type I Bedding Material	-77.14	43%	-94.29	52%	-8.57	5%	100%
130	Type II Foundation Material	-90.00	43%	-110.00	52%	-10.00	5%	100%
131	Type III Foundation Material	-90.00	43%	-110.00	52%	-10.00	5%	100%
132	Controlled Low Strength Backfill Mat	-257.14	43%	-314.29	52%	-28.57	5%	100%
133	8" PVC Sewer Main (12' - 14')	276.00	43%	337.33	52%	30.67	5%	100%
134	8" PVC Sewer Main (14' - 16')	0.00	43%	0.00	52%	0.00	5%	100%
135	4" PVC Sewer Service Line	137.14	43%	167.62	52%	15.24	5%	100%
136	Termination Manhole, 48"	0.00	43%	0.00	52%	0.00	5%	100%
137	Extra Manhole Depth, 48"	0.00	43%	0.00	52%	0.00	5%	100%
138	Connect New Sewer Service	98.57	43%	120.48	52%	10.95	5%	100%
139	Connect to Existing Manhole	0.00	43%	0.00	52%	0.00	5%	100%
140	AC Patching, Class G Type I PG64-2	5,682.60	43%	6,945.40	52%	631.40	5%	100%
141	Aggregate Base Course 3/4"	492.17	43%	601.54	52%	54.69	5%	100%
142	Remove PCC Driveway Pavement	0.00	43%	0.00	52%	0.00	5%	100%
143	PCC Driveway Pavement, 6" Nonrein	0.00	43%	0.00	52%	0.00	5%	100%
144	Clearing and Grubbing	0.00	43%	0.00	52%	0.00	5%	100%
145	Topsoil, Stockpile & Replace	0.00	43%	0.00	52%	0.00	5%	100%
146	Hauling & Placing Co-Compost	0.00	43%	0.00	52%	0.00	5%	100%
147	Sodding	0.00	43%	0.00	52%	0.00	5%	100%
148	Erosion Control and Water Pollution	0.00	43%	0.00	52%	0.00	5%	100%
149	Erosion Control, Inlet Protection	-141.43	43%	-172.86	52%	-15.71	5%	100%
		\$34,822.94		\$42,561.34		\$3,869.23		\$81,253.51