



# ENGINEER'S ESTIMATE - FINAL PLANS

Client: City of Overland Park  
 Project: Quivira - 159th to 179th  
 Project Number: STP-N065(901) OP # TH-1665  
 Date: 5/8/2019

	ITEM DESCRIPTION	Quantity Participating	Quantity Non-Participating	Unit	Unit Cost \$	Participating Cost	Non-Participating Cost	TOTAL COST
1	Force Account (Set)*		1	Lump Sum	\$250,000.00	\$0.00	\$250,000.00	\$250,000.00
2	Maintenance Bond *		1	Lump Sum	\$75,000.00	\$0.00	\$75,000.00	\$75,000.00
3	Clearing and Grubbing	1		Lump Sum	\$150,000.00	\$150,000.00	\$0.00	\$150,000.00
4	Removal of Existing Structures	1		Lump Sum	\$350,000.00	\$350,000.00	\$0.00	\$350,000.00
5	Unclassified Excavation	77487		Cu. Yd.	\$15.00	\$1,162,305.00	\$0.00	\$1,162,305.00
6	Embankment (Contractor Furnished)	76593		Cu. Yd.	\$16.00	\$1,225,489.58	\$0.00	\$1,225,489.58
7	Excavation (Unsuitable)	6000		Cu. Yd.	\$15.00	\$90,000.00	\$0.00	\$90,000.00
8	Excavation (Unstable)	6000		Cu. Yd.	\$15.00	\$90,000.00	\$0.00	\$90,000.00
9	Compaction of Earthwork (All types)	123309		Cu. Yd.	\$2.00	\$246,618.00	\$0.00	\$246,618.00
10	Asphaltic Concrete (Surface Course)	330		Ton	\$80.00	\$26,400.00	\$0.00	\$26,400.00
11	Asphaltic Concrete (Intermediate Course)	1126		Ton	\$71.00	\$79,946.00	\$0.00	\$79,946.00
12	Temporary Surfacing Material (AB-3 OP Modified)	2000		Ton	\$30.00	\$60,000.00	\$0.00	\$60,000.00
13	Temporary Surfacing Material (Intermediate Course)	410		Ton	\$75.00	\$30,750.00	\$0.00	\$30,750.00
14	Aggregate for Base (AB-3 O.P. Modified)(4")	14992		Sq. Yd.	\$4.50	\$67,464.00	\$0.00	\$67,464.00
15	Aggregate for Base (AB-3 O.P. Modified)(6")	70734		Sq. Yd.	\$8.00	\$565,872.00	\$0.00	\$565,872.00
16	Fly Ash	3701		Ton	\$60.00	\$222,078.00	\$0.00	\$222,078.00
17	Manipulation for Fly Ash Treated Subgrade (8")	71217		Sq. Yd.	\$3.20	\$227,893.12	\$0.00	\$227,893.12
18	KCMMB 4K Concrete (ISRW)	190		Cu. Yd.	\$1,000.00	\$190,000.00	\$0.00	\$190,000.00
19	KCMMB 5K Concrete (RCB)	599		Cu. Yds.	\$1,200.00	\$718,800.00	\$0.00	\$718,800.00
20	Bridge Number Plaque*		1	Each	\$350.00	\$0.00	\$350.00	\$350.00
21	Class III Excavation	269		Cu. Yds.	\$35.00	\$9,415.00	\$0.00	\$9,415.00
22	Foundation Stabilization	155		Cu. Yds.	\$40.00	\$6,200.00	\$0.00	\$6,200.00
23	Concrete for Seal Course (Set)	1		Cu. Yds.	\$175.00	\$175.00	\$0.00	\$175.00
24	Granular Backfill (Wingwalls)	52		Cu. Yds.	\$60.00	\$3,120.00	\$0.00	\$3,120.00
	NORTHBOUND BRIDGE OVER COFFEE CREEK							
25	Class I Excavation	181		Cu. Yd.	\$30.00	\$5,430.00	\$0.00	\$5,430.00
26	Class II Excavation	54		Cu. Yd.	\$95.00	\$5,130.00	\$0.00	\$5,130.00
27	KCMMB 5K Concrete	500		Cu. Yd.	\$750.00	\$375,300.00	\$0.00	\$375,300.00
28	Reinforcing Steel (Grade 60)	16340		Lbs.	\$1.10	\$17,974.00	\$0.00	\$17,974.00
29	Reinforcing Steel (Grade 60) (Epoxy Coated)	87570		Lbs.	\$1.20	\$105,084.00	\$0.00	\$105,084.00
30	Pile (Steel) (HP12x53)	190		Lin. Ft.	\$85.00	\$16,150.00	\$0.00	\$16,150.00
31	Pre-Drilled Pile Holes	166		Lin. Ft.	\$175.00	\$29,050.00	\$0.00	\$29,050.00
32	Drilled Shaft (54") (Cased)	85		Lin. Ft.	\$850.00	\$72,250.00	\$0.00	\$72,250.00
33	Sonic Test (Drilled Shaft) (Set Price)	1		Each	\$2,050.00	\$2,050.00	\$0.00	\$2,050.00
34	Core Hole (Investigative)	65		Lin. Ft.	\$105.00	\$6,825.00	\$0.00	\$6,825.00
35	Prestressed Concrete Beam (K4)	1264		Lin. Ft.	\$230.00	\$290,720.00	\$0.00	\$290,720.00
36	Bridge Handrail (Metal) (1'-10")	318		Lin. Ft.	\$125.00	\$39,750.00	\$0.00	\$39,750.00
37	Bridge Handrail (Metal) (4'-6")	343		Lin. Ft.	\$175.00	\$60,025.00	\$0.00	\$60,025.00
38	Abutment Aggregate Drain	106		Cu. Yd.	\$205.00	\$21,730.00	\$0.00	\$21,730.00
39	Bridge Backwall Protection System	92		Sq. Yd.	\$45.00	\$4,140.00	\$0.00	\$4,140.00
40	Slope Protection (RipRap Stone)(Light 200 Lb.)(24" Thick)	584		Cu. Yd.	\$70.00	\$40,880.00	\$0.00	\$40,880.00
41	Curing Environment	1		Lump Sum	\$2,500.00	\$2,500.00	\$0.00	\$2,500.00
42	Bridge Number Plaque*		1	Each	\$350.00	\$0.00	\$350.00	\$350.00
43	Electric Conduit (Non-Metallic)	341		Lin. Ft.	\$12.00	\$4,092.00	\$0.00	\$4,092.00
	SOUTHBOUND BRIDGE OVER COFFEE CREEK							
44	Class I Excavation	226		Cu. Yd.	\$30.00	\$6,780.00	\$0.00	\$6,780.00
45	Class II Excavation	78		Cu. Yd.	\$95.00	\$7,410.00	\$0.00	\$7,410.00
46	KCMMB 5K Concrete	654		Cu. Yd.	\$750.00	\$490,275.00	\$0.00	\$490,275.00
47	Reinforcing Steel (Grade 60)	22740		Lbs.	\$1.10	\$25,014.00	\$0.00	\$25,014.00
48	Reinforcing Steel (Grade 60) (Epoxy Coated)	120770		Lbs.	\$1.20	\$144,924.00	\$0.00	\$144,924.00
49	Pile (Steel) (HP12x53)	190		Lin. Ft.	\$85.00	\$16,150.00	\$0.00	\$16,150.00
50	Pre-Drilled Pile Holes	166		Lin. Ft.	\$175.00	\$29,050.00	\$0.00	\$29,050.00
51	Drilled Shaft (54") (Cased)	123		Lin. Ft.	\$850.00	\$104,550.00	\$0.00	\$104,550.00
52	Sonic Test (Drilled Shaft) (Set Price)	1		Each	\$2,050.00	\$2,050.00	\$0.00	\$2,050.00
53	Core Hole (Investigative)	63		Lin. Ft.	\$105.00	\$6,615.00	\$0.00	\$6,615.00
54	Prestressed Concrete Beam (K4)	1264		Lin. Ft.	\$240.00	\$303,360.00	\$0.00	\$303,360.00
55	Bridge Handrail (Metal) (1'-10")	318		Lin. Ft.	\$125.00	\$39,750.00	\$0.00	\$39,750.00
56	Bridge Handrail (Metal) (4'-6")	341		Lin. Ft.	\$175.00	\$59,675.00	\$0.00	\$59,675.00
57	Abutment Aggregate Drain	131		Cu. Yd.	\$205.00	\$26,855.00	\$0.00	\$26,855.00
58	Bridge Backwall Protection System	111		Sq. Yd.	\$45.00	\$4,995.00	\$0.00	\$4,995.00
59	Slope Protection (RipRap Stone)(Light 200 Lb.)(24" Thick)	632		Cu. Yd.	\$70.00	\$44,240.00	\$0.00	\$44,240.00
60	Curing Environment	1		Lump Sum	\$2,500.00	\$2,500.00	\$0.00	\$2,500.00
61	Bridge Number Plaque*		1	Each	\$350.00	\$0.00	\$350.00	\$350.00
62	Electric Conduit (Non-Metallic)	341		Lin. Ft.	\$12.00	\$4,092.00	\$0.00	\$4,092.00



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	ITEM DESCRIPTION	Quantity Participating	Quantity Non-Participating	Unit	Unit Cost \$	Participating Cost	Non-Participating Cost	TOTAL COST
	NORTHBOUND BRIDGE OVER NORTH TRIBUTARY							
63	Class I Excavation	127		Cu. Yd.	\$55.00	\$6,985.00	\$0.00	\$6,985.00
64	Class II Excavation	77		Cu. Yd.	\$105.00	\$8,085.00	\$0.00	\$8,085.00
65	KCMMB 5K Concrete	339		Cu. Yd.	\$650.00	\$220,025.00	\$0.00	\$220,025.00
66	Reinforcing Steel (Grade 60)	1840		Lbs.	\$1.10	\$2,024.00	\$0.00	\$2,024.00
67	Reinforcing Steel (Grade 60) (Epoxy Coated)	75290		Lbs.	\$1.20	\$90,348.00	\$0.00	\$90,348.00
68	Pile (Steel) (HP10x42)	459		Lin. Ft.	\$60.00	\$27,540.00	\$0.00	\$27,540.00
69	Pre-Drilled Pile Holes	304		Lin. Ft.	\$175.00	\$53,200.00	\$0.00	\$53,200.00
70	Bridge Handrail (Metal) (1'-10")	118		Lin. Ft.	\$125.00	\$14,750.00	\$0.00	\$14,750.00
71	Bridge Handrail (Metal) (4'-6")	137		Lin. Ft.	\$175.00	\$23,975.00	\$0.00	\$23,975.00
72	Abutment Aggregate Drain	42		Cu. Yd.	\$205.00	\$8,610.00	\$0.00	\$8,610.00
73	Bridge Backwall Protection System	63		Sq. Yd.	\$45.00	\$2,835.00	\$0.00	\$2,835.00
74	Slope Protection (RipRap Stone)(Light 200 Lb.)(24" Thick)	892		Cu. Yds.	\$70.00	\$62,440.00	\$0.00	\$62,440.00
75	Bridge Number Plaque*		1	Each	\$350.00	\$0.00	\$350.00	\$350.00
76	Electric Conduit (Non-Metallic)	132		Lin. Ft.	\$12.00	\$1,584.00	\$0.00	\$1,584.00
	SOUTHBOUND BRIDGE OVER NORTH TRIBUTARY							
77	Class I Excavation	126		Cu. Yd.	\$55.00	\$6,930.00	\$0.00	\$6,930.00
78	Class II Excavation	64		Cu. Yd.	\$105.00	\$6,720.00	\$0.00	\$6,720.00
79	KCMMB 5K Concrete	288		Cu. Yd.	\$650.00	\$187,200.00	\$0.00	\$187,200.00
80	Reinforcing Steel (Grade 60)	1460		Lbs.	\$1.10	\$1,606.00	\$0.00	\$1,606.00
81	Reinforcing Steel (Grade 60) (Epoxy Coated)	66680		Lbs.	\$1.20	\$80,016.00	\$0.00	\$80,016.00
82	Pile (Steel) (HP10x42)	366		Lin. Ft.	\$60.00	\$21,960.00	\$0.00	\$21,960.00
83	Pre-Drilled Pile Holes	244		Lin. Ft.	\$175.00	\$42,700.00	\$0.00	\$42,700.00
84	Bridge Handrail (Metal) (1'-10")	118		Lin. Ft.	\$125.00	\$14,750.00	\$0.00	\$14,750.00
85	Bridge Handrail (Metal) (4'-6")	138		Lin. Ft.	\$175.00	\$24,150.00	\$0.00	\$24,150.00
86	Abutment Aggregate Drain	42		Cu. Yd.	\$205.00	\$8,610.00	\$0.00	\$8,610.00
87	Bridge Backwall Protection System	59		Sq. Yd.	\$45.00	\$2,655.00	\$0.00	\$2,655.00
88	Slope Protection (RipRap Stone)(Light 200 Lb.)(24" Thick)	720		Cu. Yd.	\$70.00	\$50,400.00	\$0.00	\$50,400.00
89	Bridge Number Plaque*		1	Each	\$350.00	\$0.00	\$350.00	\$350.00
90	KCMMB 4K Concrete (Distribution Slab)	67		Cu. Yd.	\$310.00	\$20,770.00	\$0.00	\$20,770.00
91	KCMMB 4K Concrete (Bridge Approach Slab Footing)	127		Cu. Yd.	\$375.00	\$47,625.00	\$0.00	\$47,625.00
92	Concrete Pavement (6")(Tack-On Median)	13		Sq. Yd.	\$600.00	\$7,800.00	\$0.00	\$7,800.00
93	Concrete Pavement (6" Uniform)(AE)(PLAIN)	489		Sq. Yd.	\$60.00	\$29,340.00	\$0.00	\$29,340.00
94	Concrete Pavement (8" Uniform)(AE)(PLAIN)	121		Sq. Yd.	\$70.00	\$8,470.00	\$0.00	\$8,470.00
95	Concrete Pavement (9" Uniform)(AE)(NRDJ)	55740		Sq. Yd.	\$66.00	\$3,678,840.00	\$0.00	\$3,678,840.00
96	Concrete Pavement (12" UNIFORM)(AE)(BR APP)	1031		Sq. Yd.	\$200.00	\$206,200.00	\$0.00	\$206,200.00
97	Curb and Gutter, Combined (Type A)	845		Lin. Ft.	\$20.00	\$16,900.00	\$0.00	\$16,900.00
98	Curb and Gutter, Combined (Type B)	7947		Lin. Ft.	\$20.00	\$158,940.00	\$0.00	\$158,940.00
99	Curb and Gutter, Combined (Type C)	1099		Lin. Ft.	\$25.00	\$27,475.00	\$0.00	\$27,475.00
100	Curb and Gutter, Combined (Type E)	22211		Lin. Ft.	\$18.00	\$399,798.00	\$0.00	\$399,798.00
101	Curb and Gutter, Replacement	46		Lin. Ft.	\$30.00	\$1,380.00	\$0.00	\$1,380.00
102	Concrete Median Nose	10		Each	\$1,500.00	\$15,000.00	\$0.00	\$15,000.00
103	Paver Bricks	21981		Sq. Ft.	\$18.00	\$395,658.00	\$0.00	\$395,658.00
104	Concrete Paver Stones	5161		Sq. Ft.	\$14.00	\$72,254.00	\$0.00	\$72,254.00
105	Sidewalk Construction (4")	67075		Sq. Ft.	\$4.50	\$301,837.50	\$0.00	\$301,837.50
106	Sidewalk Construction Reinforced (6")	369		Sq. Ft.	\$7.50	\$2,767.50	\$0.00	\$2,767.50
107	Sidewalk Ramp With Detectable Warning Surface	6336		Sq. Ft.	\$16.00	\$101,376.00	\$0.00	\$101,376.00
108	Detectable Warning Surface	1229		Sq. Ft.	\$50.00	\$61,450.00	\$0.00	\$61,450.00
109	Asphalt Sidewalk (Intermediate Course) (4")	3227		Ton	\$75.00	\$242,025.00	\$0.00	\$242,025.00
110	15" Storm Sewer (RCP Class III)	838		Lin. Ft.	\$75.00	\$62,850.00	\$0.00	\$62,850.00
111	18" Storm Sewer (RCP Class III)	1071		Lin. Ft.	\$80.00	\$85,680.00	\$0.00	\$85,680.00
112	24" Storm Sewer (RCP Class III)	1327		Lin. Ft.	\$90.00	\$119,430.00	\$0.00	\$119,430.00
113	30" Storm Sewer (RCP Class III)	3088		Lin. Ft.	\$105.00	\$324,240.00	\$0.00	\$324,240.00
114	36" Storm Sewer (RCP Class III)	1283		Lin. Ft.	\$130.00	\$166,790.00	\$0.00	\$166,790.00
115	42" Storm Sewer (RCP Class III)	161		Lin. Ft.	\$175.00	\$28,175.00	\$0.00	\$28,175.00
116	54" Storm Sewer (RCP Class III)	34		Lin. Ft.	\$200.00	\$6,800.00	\$0.00	\$6,800.00
117	30" Elliptical Storm Sewer (RCP Class III)	292		Lin. Ft.	\$150.00	\$43,800.00	\$0.00	\$43,800.00
118	24" Arch Storm Sewer (RCP Class III)	144		Lin. Ft.	\$125.00	\$18,000.00	\$0.00	\$18,000.00
119	36" Arch Storm Sewer (RCP Class III)	74		Lin. Ft.	\$175.00	\$12,950.00	\$0.00	\$12,950.00
120	48" Arch Storm Sewer (RCP Class III)	225		Lin. Ft.	\$185.00	\$41,625.00	\$0.00	\$41,625.00
121	30" High-Density Polyethylene Pipe (HDPE)	232		Lin. Ft.	\$75.00	\$17,400.00	\$0.00	\$17,400.00
122	36" High-Density Polyethylene Pipe (HDPE)(Temporary)	60		Lin. Ft.	\$85.00	\$5,100.00	\$0.00	\$5,100.00
123	12" Entrance Pipe (RCP Class III)	95		Lin. Ft.	\$50.00	\$4,750.00	\$0.00	\$4,750.00



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124	15" Entrance Pipe (RCP Class III)	22		Lin. Ft.	\$60.00	\$1,320.00	\$0.00	\$1,320.00
125	24" Entrance Pipe (RCP Class III)	20		Lin. Ft.	\$70.00	\$1,400.00	\$0.00	\$1,400.00
126	18" Arch Entrance Pipe (RCP Class III)	17		Lin. Ft.	\$75.00	\$1,275.00	\$0.00	\$1,275.00
127	24" Arch Entrance Pipe (RCP Class III)	16		Lin. Ft.	\$85.00	\$1,360.00	\$0.00	\$1,360.00
128	End Section (12")(RC)	8		Each	\$1,100.00	\$8,800.00	\$0.00	\$8,800.00
129	End Section (15")(RC)	3		Each	\$1,200.00	\$3,600.00	\$0.00	\$3,600.00
130	End Section (18")(RC)	1		Each	\$1,400.00	\$1,400.00	\$0.00	\$1,400.00
131	End Section (24")(RC)	2		Each	\$1,600.00	\$3,200.00	\$0.00	\$3,200.00
132	End Section (30")(RC)	1		Each	\$2,400.00	\$2,400.00	\$0.00	\$2,400.00
133	End Section (36")(RC)	1		Each	\$2,600.00	\$2,600.00	\$0.00	\$2,600.00
134	End Section (54")(RC)	1		Each	\$3,000.00	\$3,000.00	\$0.00	\$3,000.00
135	End Section (18") Arch (RC)	2		Each	\$1,600.00	\$3,200.00	\$0.00	\$3,200.00
136	End Section (24") Arch (RC)	2		Each	\$2,000.00	\$4,000.00	\$0.00	\$4,000.00
137	End Section (48") Arch (RC)	1		Each	\$3,000.00	\$3,000.00	\$0.00	\$3,000.00
138	End Section (24")(Type IV)	3		Each	\$1,600.00	\$4,800.00	\$0.00	\$4,800.00
139	End Section (30")(Type IV)	1		Each	\$2,400.00	\$2,400.00	\$0.00	\$2,400.00
140	End Section (30") High-Density Polyethylene (HDPE)	1		Each	\$1,500.00	\$1,500.00	\$0.00	\$1,500.00
141	Inlet (Non-Setback Curb)(6'x4')(Complete)	1		Each	\$5,500.00	\$5,500.00	\$0.00	\$5,500.00
142	Inlet (Non-Setback Curb)(6'x5')(Complete)	2		Each	\$5,700.00	\$11,400.00	\$0.00	\$11,400.00
143	Inlet (Curb)(4'x4')(Complete)	2		Each	\$5,000.00	\$10,000.00	\$0.00	\$10,000.00
144	Inlet (Curb)(6'x4')(Complete)	11		Each	\$5,500.00	\$60,500.00	\$0.00	\$60,500.00
145	Inlet (Curb)(6'x5')(Complete)	3		Each	\$5,600.00	\$16,800.00	\$0.00	\$16,800.00
146	Inlet (Curb)(8'x6')(Complete)	1		Each	\$8,800.00	\$8,800.00	\$0.00	\$8,800.00
147	Inlet (Area)(4'x4')	7		Each	\$4,900.00	\$34,300.00	\$0.00	\$34,300.00
148	Inlet (Area)(5'x4')	1		Each	\$5,400.00	\$5,400.00	\$0.00	\$5,400.00
149	Inlet (Area)(6'x4')	2		Each	\$5,500.00	\$11,000.00	\$0.00	\$11,000.00
150	Inlet (Area)(5'x4')(Type A)	2		Each	\$5,000.00	\$10,000.00	\$0.00	\$10,000.00
151	Inlet (Area)(6'x3')(Type B)	2		Each	\$5,000.00	\$10,000.00	\$0.00	\$10,000.00
152	Inlet (Area)(6'x4')(Type A)	2		Each	\$5,500.00	\$11,000.00	\$0.00	\$11,000.00
153	Inlet (Area)(6'x5')(Type A)	3		Each	\$6,000.00	\$18,000.00	\$0.00	\$18,000.00
154	Inlet (Area)(6'x5')(Type C)	1		Each	\$8,000.00	\$8,000.00	\$0.00	\$8,000.00
155	Inlet (Area)(6'x6')(Type A)	1		Each	\$6,500.00	\$6,500.00	\$0.00	\$6,500.00
156	Inlet (Area)(8'x3')(Type B)	4		Each	\$6,500.00	\$26,000.00	\$0.00	\$26,000.00
157	Inlet (Area)(8'x4')(Type A)	3		Each	\$7,000.00	\$21,000.00	\$0.00	\$21,000.00
158	Inlet (Area)(8'x4')(Type C)	1		Each	\$10,000.00	\$10,000.00	\$0.00	\$10,000.00
159	Inlet (Area)(8'x5')(Type A)	4		Each	\$7,500.00	\$30,000.00	\$0.00	\$30,000.00
160	Inlet (Area)(8'x5')(Type C)	1		Each	\$10,500.00	\$10,500.00	\$0.00	\$10,500.00
161	Inlet (Area)(8'x6')(Type A)	3		Each	\$8,500.00	\$25,500.00	\$0.00	\$25,500.00
162	Inlet (Area)(8'x6')(Type C)	2		Each	\$11,000.00	\$22,000.00	\$0.00	\$22,000.00
163	Inlet (Area)(10'x4')	1		Each	\$9,000.00	\$9,000.00	\$0.00	\$9,000.00
164	Inlet (Grate)(Special)(4'x4')(Complete)	3		Each	\$7,000.00	\$21,000.00	\$0.00	\$21,000.00
165	Inlet (Flume)(Concrete)	16		Each	\$1,800.00	\$28,800.00	\$0.00	\$28,800.00
166	Drain Basin (12")	3		Each	\$1,500.00	\$4,500.00	\$0.00	\$4,500.00
167	Drain Basin (15")	2		Each	\$1,800.00	\$3,600.00	\$0.00	\$3,600.00
168	Junction Box (4'x4')(Complete)	4		Each	\$4,900.00	\$19,600.00	\$0.00	\$19,600.00
169	Junction Box (4'x5')(Complete)	5		Each	\$5,200.00	\$26,000.00	\$0.00	\$26,000.00
170	Junction Box (5'x5')(Complete)	2		Each	\$5,400.00	\$10,800.00	\$0.00	\$10,800.00
171	Junction Box (6'x4')(Complete)	2		Each	\$5,500.00	\$11,000.00	\$0.00	\$11,000.00
172	Junction Box (6'x5')(Complete)	3		Each	\$5,600.00	\$16,800.00	\$0.00	\$16,800.00
173	Junction Box (6'x6')(Complete)	2		Each	\$5,800.00	\$11,600.00	\$0.00	\$11,600.00
174	Junction Box (10'x6')(Complete)	2		Each	\$10,000.00	\$20,000.00	\$0.00	\$20,000.00
175	Modification of Structure (Curb Inlet)	2		Each	\$2,000.00	\$4,000.00	\$0.00	\$4,000.00
176	Slope Drain (Concrete)	31		Lin. Ft.	\$70.00	\$2,170.00	\$0.00	\$2,170.00
177	Slope Drain (Stone)	112		Lin. Ft.	\$50.00	\$5,602.50	\$0.00	\$5,602.50
178	RipRap (Light 100 Lb.)(24" Thick)	68		Sq. Yd.	\$60.00	\$4,080.00	\$0.00	\$4,080.00
179	RipRap (Light 200 Lb.)(36" Thick)	308		Sq. Yd.	\$70.00	\$21,560.00	\$0.00	\$21,560.00
180	RipRap (1/4 Ton)(36" Thick)	840		Sq. Yd.	\$75.00	\$63,000.00	\$0.00	\$63,000.00
181	4" Pipe Underdrain (Type K)	49		Lin. Ft.	\$10.00	\$490.00	\$0.00	\$490.00
182	6" Pipe Underdrain (Type H)	26603		Lin. Ft.	\$12.00	\$319,236.00	\$0.00	\$319,236.00
183	6" Pipe Underdrain (Type K)	1117		Lin. Ft.	\$50.00	\$55,850.00	\$0.00	\$55,850.00
184	Sanitary Sewer Encasement	55		Lin. Ft.	\$125.00	\$6,875.00	\$0.00	\$6,875.00
185	Adjustment of Manholes	5		Each	\$1,500.00	\$7,500.00	\$0.00	\$7,500.00
186	Fence (Barbed Wire)(Temporary)	2679		Lin. Ft.	\$4.50	\$12,055.50	\$0.00	\$12,055.50
187	Handrail (Metal) (48")	417		Lin. Ft.	\$200.00	\$83,400.00	\$0.00	\$83,400.00
188	Guardrail, Steel Plate (MGS)	1050		Lin. Ft.	\$52.00	\$54,600.00	\$0.00	\$54,600.00
189	Guardrail End Terminal (MGS FLEAT) Alt #1	8		Each	\$2,800.00	\$22,400.00	\$0.00	\$22,400.00
190	Guardrail End Terminal (MGS SRT) Alt #2	8		Each	\$0.00	\$0.00	\$0.00	\$0.00
191	Traffic Signal Installation & Interconnect (159th & Quivira)	1		Lump Sum	\$315,000.00	\$315,000.00	\$0.00	\$315,000.00



# ENGINEER'S ESTIMATE - FINAL PLANS

Client: City of Overland Park  
 Project: Quivira - 159th to 179th  
 Project Number: STP-N065(901) OP # TH-1665  
 Date: 5/8/2019

	ITEM DESCRIPTION	Quantity Participating	Quantity Non-Participating	Unit	Unit Cost \$	Participating Cost	Non-Participating Cost	TOTAL COST
192	Street Lighting	1		Lump Sum	\$440,000.00	\$440,000.00	\$0.00	\$440,000.00
193	Permanent Traffic Control Signs	911		Sq. Ft.	\$25.00	\$22,775.00	\$0.00	\$22,775.00
194	1-3/4" x 1-3/4" Sign Posts	1266		Lin. Ft.	\$7.00	\$8,862.00	\$0.00	\$8,862.00
195	2" x 2" Sign Post Anchors	424		Lin. Ft.	\$9.00	\$3,816.00	\$0.00	\$3,816.00
196	2-1/4" x 2-1/4" Anchor Sleeves	265		Lin. Ft.	\$11.00	\$2,915.00	\$0.00	\$2,915.00
197	Paver Anchor & Sleeve	22		Each	\$25.00	\$550.00	\$0.00	\$550.00
198	Rectangular Rapid Flashing Beacon (RRFB) - (Bi-Directional)	2		Each	\$2,500.00	\$5,000.00	\$0.00	\$5,000.00
199	Rectangular Rapid Flashing Beacon (RRFB) - (Uni-Directional)	4		Each	\$2,500.00	\$10,000.00	\$0.00	\$10,000.00
200	White Tubular Delineators with White Reflective Stripes	21		Each	\$200.00	\$4,200.00	\$0.00	\$4,200.00
201	Traffic Control	1		Lump Sum	\$200,000.00	\$200,000.00	\$0.00	\$200,000.00
202	4" White - Thermoplastic	1459		Lin. Ft.	\$2.00	\$2,918.00	\$0.00	\$2,918.00
203	4" Yellow - Thermoplastic	2316		Lin. Ft.	\$2.00	\$4,632.00	\$0.00	\$4,632.00
204	12" White - Thermoplastic	14		Lin. Ft.	\$4.00	\$56.00	\$0.00	\$56.00
205	12" Yellow - Thermoplastic	156		Lin. Ft.	\$4.00	\$624.00	\$0.00	\$624.00
206	White Turn Arrows - Preformed Thermoplastic	5		Each	\$250.00	\$1,250.00	\$0.00	\$1,250.00
207	4" White - IMP	30127		Lin. Ft.	\$8.00	\$241,016.00	\$0.00	\$241,016.00
208	4" Yellow - IMP	1799		Lin. Ft.	\$8.00	\$14,392.00	\$0.00	\$14,392.00
209	6" White - IMP	930		Lin. Ft.	\$10.00	\$9,300.00	\$0.00	\$9,300.00
210	8" White - IMP	118		Lin. Ft.	\$12.00	\$1,416.00	\$0.00	\$1,416.00
211	12" White - IMP	685		Lin. Ft.	\$20.00	\$13,700.00	\$0.00	\$13,700.00
212	12" Yellow - IMP	19		Lin. Ft.	\$20.00	\$380.00	\$0.00	\$380.00
213	24" White - PTP	174		Lin. Ft.	\$30.00	\$5,220.00	\$0.00	\$5,220.00
214	24" x 36" White Yield Line - Contrast Patterned Cold Plastic	63		Each	\$100.00	\$6,300.00	\$0.00	\$6,300.00
215	White Turn Arrows - Contrast Patterned Cold Plastic	22		Each	\$600.00	\$13,200.00	\$0.00	\$13,200.00
216	Lawn Sprinkler System Modification (Summerwood)*		1	Lump Sum	\$73,145.00	\$0.00	\$73,145.00	\$73,145.00
217	Lawn Sprinkler System Modification (Mills Farm)*		1	Lump Sum	\$101,295.00	\$0.00	\$0.00	\$101,295.00
218	Lawn Sprinkler System Modification (Polo Fields)*		1	Lump Sum	\$35,510.00	\$0.00	\$35,510.00	\$35,510.00
219	Native Seed	1		Acre	\$5,000.00	\$4,400.00	\$0.00	\$4,400.00
220	Seed (Fescue)	7		Acre	\$2,600.00	\$19,448.00	\$0.00	\$19,448.00
221	Seed (Brome)	2		Acre	\$4,000.00	\$8,280.00	\$0.00	\$8,280.00
222	Seed (Temporary)	30		Acre	\$700.00	\$20,720.00	\$0.00	\$20,720.00
223	Sod (Fescue)	92721		Sq. Yd.	\$4.50	\$417,244.50	\$0.00	\$417,244.50
224	Turf Reinforcement Mat (Class 2-Type G)	6430		Sq. Yd.	\$6.00	\$38,580.00	\$0.00	\$38,580.00
225	Water Quality Control Manager	100		Each	\$300.00	\$30,000.00	\$0.00	\$30,000.00
226	SWPPP Inspection (est.)	60		Each	\$200.00	\$12,000.00	\$0.00	\$12,000.00
227	Biodegradable Log (9")	3922		Lin. Ft.	\$2.50	\$9,805.00	\$0.00	\$9,805.00
228	Construction Entrance	371		Sq. Yd.	\$12.00	\$4,452.00	\$0.00	\$4,452.00
229	Hydraulic Erosion Control (est.)	52		Ton	\$1,000.00	\$52,000.00	\$0.00	\$52,000.00
230	Temporary Ditch Checks (Rock)	5		Each	\$600.00	\$3,000.00	\$0.00	\$3,000.00
231	Temporary Diversion Berm	1767		Lin. Ft.	\$10.00	\$17,670.00	\$0.00	\$17,670.00
232	Inlet Protection	74		Each	\$65.00	\$4,810.00	\$0.00	\$4,810.00
233	Temporary Sediment Trap	4		Each	\$3,000.00	\$12,000.00	\$0.00	\$12,000.00
234	Erosion Control Blanket (Class 1 - Type C)	1298		Sq. Yd.	\$5.00	\$6,490.00	\$0.00	\$6,490.00
235	Silt Fence	29370		Lin. Ft.	\$1.00	\$29,370.00	\$0.00	\$29,370.00
236	Topsoil	23866		Cu. Yd.	\$12.00	\$286,392.00	\$0.00	\$286,392.00
237	Contractor Construction Staking	1		Lump Sum	\$175,000.00	\$175,000.00	\$0.00	\$175,000.00
238	Land Corner Monument Box	5		Each	\$1,500.00	\$7,500.00	\$0.00	\$7,500.00
239	Benchmark Monument (Johnson County)	3		Each	\$1,500.00	\$4,500.00	\$0.00	\$4,500.00
240	Gauging Station*		1	Lump Sum	\$20,000.00	\$0.00	\$20,000.00	\$20,000.00
	<b>SUBTOTAL ROAD AND BRIDGE ITEMS</b>					<b>\$19,401,642.20</b>	<b>\$556,700.00</b>	<b>\$19,958,342.20</b>
	<b>WATERLINE WORK</b>							
241	Waterline Mobilization*	1		Lump Sum	\$50,000.00	\$0.00	\$50,000.00	\$50,000.00
242	Ductile Iron Pipe (36")*		2148	Lin. Ft.	\$432.00	\$0.00	\$927,936.00	\$927,936.00
243	Ductile Iron Pipe (24")*		1542	Lin. Ft.	\$288.00	\$0.00	\$444,096.00	\$444,096.00
244	Ductile Iron Pipe (12")*		148	Lin. Ft.	\$120.00	\$0.00	\$17,760.00	\$17,760.00
245	PVC Pipe (16")*		432	Lin. Ft.	\$160.00	\$0.00	\$69,120.00	\$69,120.00
246	PVC Pipe (12")*		2593	Lin. Ft.	\$120.00	\$0.00	\$311,160.00	\$311,160.00
247	PVC Pipe (8")*		60	Lin. Ft.	\$80.00	\$0.00	\$4,800.00	\$4,800.00
248	HDPE Pipe (12")*		440	Lin. Ft.	\$120.00	\$0.00	\$52,800.00	\$52,800.00
249	Butterfly Valve (36")*		2	Each	\$13,000.00	\$0.00	\$26,000.00	\$26,000.00
250	Gate Valve (24")*		1	Each	\$9,000.00	\$0.00	\$9,000.00	\$9,000.00
251	Gate Valve (16")*		1	Each	\$7,500.00	\$0.00	\$7,500.00	\$7,500.00
252	Gate Valve (12")*		10	Each	\$3,000.00	\$0.00	\$30,000.00	\$30,000.00
253	Gate Valve (8")*		2	Each	\$1,500.00	\$0.00	\$3,000.00	\$3,000.00
254	Hydrant Installation - Tee*		4	Each	\$5,000.00	\$0.00	\$20,000.00	\$20,000.00
255	Hydrant Installation - Tap*		1	Each	\$5,500.00	\$0.00	\$5,500.00	\$5,500.00



# ENGINEER'S ESTIMATE - FINAL PLANS

Client: City of Overland Park  
 Project: Quivira - 159th to 179th  
 Project Number: STP-N065(901) OP # TH-1665  
 Date: 5/8/2019

	ITEM DESCRIPTION	Quantity Participating	Quantity Non-Participating	Unit	Unit Cost \$	Participating Cost	Non-Participating Cost	TOTAL COST
256	2" Combination Air Valve and 6' Diameter Precast Conc. Vault with Manhole*		3	Each	\$15,000.00	\$0.00	\$45,000.00	\$45,000.00
257	2" Combination Air Valve and 8' Diameter Precast Conc. Vault with Manhole*		2	Each	\$20,000.00	\$0.00	\$40,000.00	\$40,000.00
258	Steel Encasement Pipe (48")*		320	Lin. Ft.	\$480.00	\$0.00	\$153,600.00	\$153,600.00
259	Steel Encasement Pipe (36")*		220	Lin. Ft.	\$360.00	\$0.00	\$79,200.00	\$79,200.00
260	Steel Encasement Pipe (24")*		200	Lin. Ft.	\$240.00	\$0.00	\$48,000.00	\$48,000.00
261	Steel Encasement Pipe (20")*		70	Lin. Ft.	\$200.00	\$0.00	\$14,000.00	\$14,000.00
262	Connection to Existing 24" Main near 23+95*		1	Lump Sum	\$15,000.00	\$0.00	\$15,000.00	\$15,000.00
263	Connection to Existing 24" Main near 27+25*		1	Lump Sum	\$15,000.00	\$0.00	\$15,000.00	\$15,000.00
264	Connection to Existing 12" Main near 31+75*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
265	Connection to Existing 8" Main near 31+75*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
266	Connection to Existing 24" Main near 34+75*		1	Lump Sum	\$15,000.00	\$0.00	\$15,000.00	\$15,000.00
267	Connection to Existing 24" Main near 37+00*		1	Lump Sum	\$15,000.00	\$0.00	\$15,000.00	\$15,000.00
268	Connection to Existing 8" Main near 38+00*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
269	Connection to Existing 24" Main near 40+25*		1	Lump Sum	\$15,000.00	\$0.00	\$15,000.00	\$15,000.00
270	Connection to Existing 4" Main near 47+50*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
271	Connection to Existing 8" Main near 47+75*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
272	Connection to Existing 36" Main near 48+75*		1	Lump Sum	\$20,000.00	\$0.00	\$20,000.00	\$20,000.00
273	Connection to Existing 36" Main near 54+00*		1	Lump Sum	\$20,000.00	\$0.00	\$20,000.00	\$20,000.00
274	Connection to Existing 12" Main near 82+60*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
275	Connection to Existing 12" Main near 84+00*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
276	Connection to Existing 36" Main near 89+00*		1	Lump Sum	\$20,000.00	\$0.00	\$20,000.00	\$20,000.00
277	Connection to Existing 16" Main near 91+00*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
278	Connection to Existing 12" Main near 91+00*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
279	Connection to Existing 12" Main near 95+50*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
280	Connection to Existing 12" Main near 99+75*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
281	Connection to Existing 36" Main near 102+25*		1	Lump Sum	\$20,000.00	\$0.00	\$20,000.00	\$20,000.00
282	Connection to Existing 12" Main near 105+75*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
283	Connection to Existing 12" Main near 117+25*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
284	Connection to Existing 12" Main near 118+00*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
285	Connection to Existing 12" Main near 119+25*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
286	Connection to Existing 12" Main near 119+75*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
287	Connection to Existing 12" Main near 122+00*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
288	Connection to Existing 12" Main near 122+05*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
289	Connection to Existing 12" Main near 122+75*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
290	Connection to Existing 12" Main near 123+00*		1	Lump Sum	\$1,400.00	\$0.00	\$1,400.00	\$1,400.00
291	Service Line Changeover for 11830 Quivira*		1	Each	\$2,500.00	\$0.00	\$2,500.00	\$2,500.00
292	Service Line Changeover for 17555 Quivira *		1	Each	\$2,500.00	\$0.00	\$2,500.00	\$2,500.00
293	Service Line Changeover and Meter Relocation near 112+00*		1	Each	\$2,500.00	\$0.00	\$2,500.00	\$2,500.00
294	Cathodic Protection*		1	Lump Sum	\$30,000.00	\$0.00	\$30,000.00	\$30,000.00
	<b>SUBTOTAL WATERLINE ITEMS</b>					<b>\$0.00</b>	<b>\$2,578,972.00</b>	<b>\$2,578,972.00</b>

OPINION OF PROBABLE COST (2019 DOLLARS)

\$19,401,642.20 \$3,135,672.00 \$22,537,314.20