



**KAW VALLEY ENGINEERING, INC.**

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February 20, 2019  
A14D7067-1

City of Lee's Summit  
220 SE Green Street  
Lee's Summit, MO 64063

**RE: Streets of West Pryor  
Engineer's Estimate, Public Improvements**

The engineer's estimate for the Public Improvements associated with the Streets of West Pryor subdivision are below. The majority of the costs are based on actual bid estimates as received. These costs are supplemented by an estimate for traffic signal and associated lane improvements not yet bid. Supporting documentation attached.

Estimate is as follows:

Sanitary Sewer (bid)	\$ 388,162.96
Storm Sewer (bid)	\$ 539,696.82
Paving (bid)	\$1,102,253.90
Water Main (bid)	\$ 211,856.31
<u>Pryor Traffic Signals and Turn Lane</u>	<u>\$ 671,848.00</u>
Total Estimate	\$2,913,817.99

Sincerely,

Bill Heatherman, P.E.  
Project Engineer



**Public Improvement  
Bid Quantity Breakdown**

**Streets of West Pryor  
Emery Sapp Sons, Inc.**

February 14, 2019

<b>Summary of Quantities</b>					
<b>Sanitary Sewer</b>					
Item No.	Item	Estimated Quantity	Unit	Unit Cost	Extension
1	Connect to Existing Manhole	2	Ea.	\$2,413.26	\$4,826.52
2	8" Sewer Main	4,346	L.F.	\$58.86	\$255,802.04
3	Extra Depth Manhole (Less than 10')	9	Ea.	\$4,649.40	\$41,844.60
4	Extra Depth Manhole (10' to 15')	6	Ea.	\$5,313.60	\$31,881.60
5	Extra Depth Manhole (Greater than 15')	8	Ea.	\$5,756.40	\$46,051.20
6	General Conditions Profit and Misc.	1	Ea.	\$7,757.00	\$7,757.00
<b>Sanitary Sewer Total:</b>					<b>\$388,162.96</b>

**Storm Sewer**

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Extension
1	Demo, Clearing and Grubbing	1	L.S.	\$56,576.56	\$56,576.56
2	Excavation	7,629	C.Y.	\$21.03	\$160,460.76
3	Embankment	7,629	C.Y.	\$7.75	\$59,117.12
4	Seeding	1	L.S.	\$3,321.00	\$3,321.00
5	4'X3' Curb Inlet	2	Ea.	\$4,167.86	\$8,335.71
6	5'x3' Curb Inlet	2	Ea.	\$4,064.90	\$8,129.81
7	5'X4' Curb Inlet	14	Ea.	\$4,736.85	\$66,315.94
8	5'x5' Curb Inlet	2	Ea.	\$4,933.90	\$9,867.80
9	6'x4' Curb Inlet	1	Ea.	\$5,273.75	\$5,273.75
10	4'x4' Field Inlet	1	Ea.	\$3,981.88	\$3,981.88
11	5'x5' Junction Box	1	Ea.	\$4,747.92	\$4,747.92
12	4'x3.5' Grate Inlet	1	Ea.	\$3,981.88	\$3,981.88
13	4'x4' Junction Box	2	Ea.	\$4,124.68	\$8,249.36
14	Landscape drain	1	Ea.	\$925.45	\$925.45
15	8" PVC	56	L.F.	\$28.23	\$1,580.80
16	15" RCP	26	L.F.	\$76.16	\$1,980.20
17	18" RCP	496	L.F.	\$44.47	\$22,056.22
18	24" RCP	850	L.F.	\$58.41	\$49,644.52
19	30" RCP	349	L.F.	\$71.61	\$24,992.53
20	15" HDPE	125	L.F.	\$35.61	\$4,451.52
21	18" Corrugated HDPE	269	L.F.	\$39.94	\$10,744.01
22	8" PVC End Section	1	Ea.	\$1,119.18	\$1,119.18
23	15" HDPE End Section	1	Ea.	\$874.53	\$874.53
24	30" RCP End Section	1	Ea.	\$1,545.37	\$1,545.37
25	General Conditions Profit and Misc.	1	Ea.	\$21,423.00	\$21,423.00
<b>Storm Sewer Total:</b>					<b>\$539,696.82</b>

**Paving**

**Public Improvement  
Bid Quantity Breakdown**

**Streets of West Pryor  
Emery Sapp Sons, Inc.**

February 14, 2019

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Extension
1	2' Curb & Gutter (CG-1)	7,787	L.F.	\$16.97	\$132,147.80
2	2" Asphaltic cement concrete surface	13,335	S.Y.	\$9.91	\$132,118.51
3	7.5" Asphaltic cement concrete base	10,515	S.Y.	\$25.23	\$265,277.99
4	4.5" Asphaltic cement concrete base	2,820	S.Y.	\$17.10	\$48,230.88
5	6" MoDOT Type 5 Base	15,990	S.Y.	\$7.65	\$122,313.43
6	8" Concrete Entrance	1,855	S.Y.	\$66.52	\$123,393.91
7	4" Aggregate (Driveway)	137	S.Y.	\$8.30	\$1,137.44
8	Handicap Ramp	11	Ea.	\$2,254.96	\$24,804.55
9	8" Concrete Patch	15	S.Y.	\$83.03	\$1,245.38
10	Pavement Removal	1	L.S.	\$24,194.59	\$24,194.59
11	Concrete Sidewalk	696	S.Y.	\$71.59	\$49,826.42
12	Mult-use trail	1,805	S.Y.	\$74.01	\$133,595.31
13	Wood Fence Replacement	78	L.F.	\$33.21	\$2,590.38
14	Modular Block Retaining Wall	128	L.F.	\$176.21	\$22,555.17
15	General Conditions Profit and Misc.	1	Ea.	\$18,822.13	\$18,822.13
<b>Paving Total</b>					<b>\$1,102,253.90</b>

**Water Main**

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Extension
1	Connect to Existing Water Main	4	Ea.	\$1,900.72	\$7,602.88
2	6" Fire Line Main	208	L.F.	\$34.98	\$7,276.09
3	6" Water Main	41	L.F.	\$35.31	\$1,447.85
4	8" Water Main	452	L.F.	\$37.20	\$16,812.23
5	12" Water Main	1,808	L.F.	\$60.77	\$109,879.93
6	1" Copper Water Service Line	164	L.F.	\$23.25	\$3,812.51
7	Fire Hydrant with 6" Valve	4	Ea.	\$4,404.75	\$17,619.01
8	Temporary Fire Hydrant with 8" Valve	4	Ea.	\$4,404.75	\$17,619.01
9	6" Gate Valve	1	Ea.	\$959.77	\$959.77
10	8" Gate Valve	4	Ea.	\$1,337.26	\$5,349.02
11	12" Gate Valve	2	Ea.	\$1,887.44	\$3,774.87
12	8" Butterfly Valve	1	Ea.	\$1,700.35	\$1,700.35
13	12" Butterfly Valve	3	Ea.	\$2,075.63	\$6,226.88
14	12"x8"x8" Tee	2	Ea.	\$572.32	\$1,144.64
15	12"x12"x8" Tee	2	Ea.	\$437.27	\$874.53
17	12"x12"x6" Tee	2	Ea.	\$394.09	\$788.18
18	Air Release Valve	1	Ea.	\$2,540.57	\$2,540.57
14	General Conditions Profit and Misc.	1	Ea.	\$6,428.00	\$6,428.00
<b>Water Main Total:</b>					<b>\$211,856.31</b>

A147067-1

February 20, 2019

Engineer's Estimate of Probable Construction Cost  
For  
**Streets of West Pryor**  
**Public Signals and Turn Lanes, Pryor Road**

This estimate has been developed using preliminary construction plans and estimated quantities, unit costs have been estimated using historical construction cost data on similar projects in this area. Construction cost may vary at the time of construction upon development of final construction plans and price variations in materials.

This estimate include 3 components: North Signal Modification and turn lanes; the Right In/Right Out turn lane and entrance, and the Lowenstein Signal. Estimate does not include Lowenstein turn lane or intersection which is covered by other estimate.

Item No.	Item	Estimated Quantity	Unit	Unit Cost	Total Cost
1.	Removals & Grading	1	L.S.	\$25,000.00	\$ 25,000
2.					
3.	6" Subgrade Stabilization	2288	S.Y.	\$9.00	\$ 20,592
4.	6" MoDOT Type 5 Base	1785	S.Y.	\$9.00	\$ 16,065
5.	7.5" Asphalt Base	1785	S.Y.	\$30.00	\$ 53,550
6.	2" Asphalt Surface	1785		\$8.00	\$ 14,280
7.	8" PCC (Intersection Apron)	503	S.Y.	\$55.00	\$ 27,665
8.	4" Aggregate Base	503		\$7.00	\$ 3,521
9.	Concrete Curb and Gutter	1025	L.F.	\$23.00	\$ 23,575
10.	4" Concrete Sidewalk	900	S.Y.	\$40.00	\$ 36,000
11.	ADA Ramps	5	Ea.	\$1,500.00	\$ 7,500
12.	Curb Inlets/Junction Box	3	Ea.	\$6,000.00	\$ 18,000
13.	Modify Existing JB Top	2	Ea.	\$3,000.00	\$ 6,000
14.	15" RCP	40	L.F.	\$65.00	\$ 2,600
15.	Traffic Signal System, Pryor and North Entrnace Traffic Signal System, Pryor and	1	L.S.	\$175,000.00	\$ 175,000
16.	Lowenstein	1	L.S.	\$225,000.00	\$ 225,000
17.	Traffic Signs - Street Signs	1	L.S.	\$3,000.00	\$ 3,000
18.	Permanent Striping and Markings	1	L.S.	\$3,500.00	\$ 3,500
19.	Traffic Control	1	L.S.	\$5,000.00	\$ 5,000
20.	Erosion Control	1	L.S.	\$5,000.00	\$ 5,000
21.	Seeding	0.5	Acres	\$2,000.00	\$ 1,000
<b>Total Estimated Construction Cost</b>					<b>\$ 671,848</b>