

March 30th, 2017

Mr. Gene Williams, P.E., CFM
 Senior Staff Engineer
 220 SE Green St.
 Lee's Summit, MO 64063

Re: PL2017058 - LBP V-A, 2900 NE Independence Ave.
Engineer's Estimate of Probable Construction Costs

OPINION OF PROBABLE CONSTRUCTION COST

Water Service:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1	6" C900 Water Line (installed)	332 lf	\$32.00	\$10,624.00
2	12"x6" Tee (installed)	1 each	\$2,500.00	\$2,500.00
3	5'X10' backflow preventer vault with restrained valve (installed)	1 each	\$7,500.00	\$7,500.00
4	1-6" double check backflow preventer (installed)	1 each	\$3,200.00	\$3,200.00
5	Water Service Meter Vault (installed)	1 ls	\$2,500.00	\$2,500.00
6	2" Copper Service Line (installed)	287 lf	\$25.00	\$7,175.00
7	2" Water Meter (installed)	1 ls	\$6,000.00	\$6,000.00
8	6"x2" Service Tap (installed)	1 ls	\$3,500.00	\$3,500.00
9	FDC Standpipe (installed)	1 ls	\$1,500.00	\$1,500.00
10	Fire Hydrant Assembly (includes valves and fittings) (installed).	1 ls	\$3,500.00	\$3,500.00
11	Thrust Blocks (installed).	4 each	\$450.00	\$1,800.00
12	Water valve vaults (installed).	1 each	\$650.00	\$650.00

Subtotal probable construction cost for Water Service: \$50,449.00

Storm Sewer:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1	18" HDPE Storm Sewer Pipe (installed)	205.6 lf	\$30.00	\$7,196.00
2	24" HDPE Storm Sewer Pipe (installed)	6.0 lf	\$40.00	\$240.00
3	Connection to Existing Area Inlet (installed)	1 each	\$1,500.00	\$1,500.00
4	5'x3' Curb Inlet (installed)	2 each	\$1,250.00	\$2,500.00
5	4'x4' Junction Box	1 each	\$1,500.00	\$1,500.00
6	4'x5' Concrete Curb Flume	1 each	\$750.00	\$750.00
Subtotal probable construction cost for Storm Sewer:				<u>\$13,686.00</u>

Sanitary Sewer:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1	6" PVC SDR-35 Sewer Line (installed)	140 lf	\$35.00	\$4,900.00
2	6" - 45° fittings & Cleanout (installed)	1 ls	\$500.00	\$500.00
3	6" service wye connection (installed)	1 ls	\$2,500.00	\$2,500.00
Subtotal probable construction cost for Sanitary Sewer:				<u>\$7,900.00</u>

Site Grading:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1	Site Grading (less building pad and subgrade.)	1 ls	\$37,375.00	\$37,375.00
2	Parking Lot Grading (less building pad and subgrade.)	1 ls	\$9,675.00	\$9,675.00
Subtotal probable construction cost for Site Grading:				<u>\$47,050.00</u>



Sod and Restoration:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1	Sodding (installed)	1 ls	\$15,300.00	\$15,300.00
2	Site restoration (installed as needed)	1 ls	\$3,500.00	\$3,500.00
Subtotal probable construction cost for Sod and Restoration:				<u>\$18,800.00</u>

Erosion and Sediment Control:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1	Silt Fence (installed as needed)	1,500 lf	\$6.00	\$9,000.00
2	Gutter Buddy (installed)	8 each	\$450.00	\$3,600.00
3	Temporary Construction Entrance (installed)	2 each	\$545.00	\$1,090.00
Subtotal probable construction cost for Erosion and Sediment Control:				<u>\$13,690.00</u>

Concrete and Asphalt:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1	Curb and Gutter (installed)	2,060 lf	\$15.50	\$31,930.00
2	Concrete Commercial Entrance (installed)	1,075 sqft	\$9.00	\$9,675.00
3	Light Asphalt Pavement (installed)	17,965 sqft	\$2.00	\$35,930.00
4	Heavy Asphalt Pavement (installed)	27,362 sqft	\$3.10	\$82,086.00
5	Concrete Pavement (installed)	8,929 sqft	\$6.25	\$55,806.25
6	ADA-accessible ramps (installed)	6 each	\$1,500.00	\$9,000.00
7	Public sidewalks (5' wide) (installed)	1,160 lf	\$2.50	\$2,900.00
8	Aggregate base for heavy duty pavement (installed)	29,187 sqft	\$1.50	\$43,780.50
Subtotal probable construction cost for Concrete and Asphalt:				<u>\$271,107.25</u>



Retaining Wall:

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1	Retaining Wall (installed)	632 face sqft	\$14.50	\$9,164.00
Subtotal probable construction cost for Retaining Wall:				<u>\$9,164.00</u>
Total probable construction cost for the project:				<u>\$431,846.25</u>

Please feel free to give me a call or email if you have any questions.

Sincerely,

Paul A. Miller, P.E.

