

AFFIDAVIT OF ESTIMATE OF COST

STATE OF KANSAS)
) ss.
COUNTY OF JOHNSON)

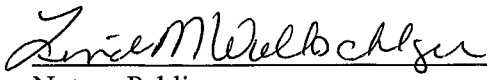
Elizabeth Wright, P.E., of lawful age, being first duly sworn upon her oath,
states:

1. I am the City Engineer for the City of Olathe, Kansas.
2. The attached detailed estimate of the cost for **Lone Elm Road, Old 56 Hwy to 151st Street, Improvements Project, PN 3-C-084-17** is attached and I am providing the estimate of the cost under oath (Exhibit A).


Elizabeth Wright, Deputy Director

Subscribed in my presence and sworn under oath before me this 7th
day of February, 2020.




Notary Public

My Appointment Expires

January 3, 2023

Lone Elm Road - Old 56 Highway to 151st Street Roadway, Bridge, and Intersection Improvements Final Engineer's Construction Cost Estimate: January 2020 City of Olathe Project No. 3-C-084-17, KDOT No. 46N-0666-01 Federal Project STP-N066 (601) JAMES SCOTT HEAVIN LICENSED 19911 PROFESSIONAL ENGINEER KANSAS 1-13-2020 Extension					
Bid Item No.	Item Description	Unit	Unit Price	Qty	
1	Mobilization	LSUM	\$1,200,000.00	1	1,200,000.00
2	Mobilization - (DBE Contractor)	LSUM	\$250,000.00	1	250,000.00
3	Contractor Construction Staking	LSUM	\$150,000.00	1	150,000.00
4	Removals	LSUM	\$275,000.00	1	275,000.00
5	Clearing & Grubbing	LSUM	\$50,000.00	1	50,000.00
6	2" Milling	SY	\$3.00	6,718	20,154.00
7	3.5" Milling - Existing Concrete Pavement	SY	\$5.50	18,570	102,135.00
8	2" Modified Asphaltic Surface (Modified Superpave)	TON	\$95.00	6,290	597,550.00
9	10" Asphaltic Base (Modified Superpave)	TON	\$95.00	19,703	1,871,785.00
10	6" Aggregate Base Course (AB-3)	SY	\$10.00	40,085	400,850.00
11	9" Compacted Subgrade	CY	\$1.50	10,022	15,033.00
12	Hybrid Paving Mat	SY	\$4.75	18,570	88,207.50
13	1.5"Leveling Course	TON	\$90.00	1,473	132,570.00
14	Full Depth Crack Repair (Existing Old 56 Highway)	SY	\$90.00	336	30,240.00
15	Install Concrete Median Nose	EA	\$1,500.00	22	33,000.00
16	Remove & Install Concrete Driveway	SY	\$100.00	1,662	166,200.00
17	Concrete Pavement Patching (Existing Old 56 Highway)	SY	\$120.00	250	30,000.00
18	Unclassified Excavation	CY	\$12.00	20,612	247,344.00
19	Embankment (Contractor Furnished)	CY	\$18.00	30,334	546,012.00
20	Compaction of Earthwork (All Types)	CY	\$3.00	34,289	102,867.00
21	Install Curb Type A	LF	\$27.00	1,029	27,783.00
22	Install Curb Type B	LF	\$27.00	9,386	253,422.00
23	Install Curb Type S (8")	LF	\$30.00	665	19,950.00
24	Install Curb Type E	LF	\$27.00	10,156	274,212.00
25	Install 4" Concrete Sidewalk	SF	\$5.00	61,786	308,930.00
26	Install 6" Concrete Sidewalk with Abutting Retaining Wall	SF	\$15.00	1,660	24,900.00
27	Install Type I ADA Ramp	EA	\$4,000.00	28	112,000.00
28	Median Stamped Concrete	SF	\$35.00	25,902	906,570.00
29	Install 5' x 3' Curb Inlet	EA	\$5,000.00	37	185,000.00
30	Install 5' x 2' Curb Inlet	EA	\$5,000.00	3	15,000.00
31	Install 4' x 4' Area Inlet	EA	\$4,000.00	1	4,000.00
32	Install 4' x 4' Manhole	EA	\$4,000.00	1	4,000.00
33	Install 15" RCP	LF	\$90.00	1,757	158,130.00
34	Install 18" RCP	LF	\$110.00	1,231	135,410.00
35	Install 24" RCP	LF	\$120.00	1,127	135,240.00
36	Install 30" RCP	LF	\$140.00	122	17,080.00
37	Install 36" RCP	LF	\$160.00	15	2,400.00
38	Install 12" (HDPE) End Section	EA	\$400.00	1	400.00
39	Install 15" RCP End Section	EA	\$1,000.00	10	10,000.00
40	Install 18" RCP End Section	EA	\$1,200.00	3	3,600.00
41	Install 24" RCP End Section	EA	\$1,300.00	9	11,700.00
42	Install 30" RCP End Section	EA	\$1,600.00	1	1,600.00
43	Install 36" RCP End Section	EA	\$2,000.00	1	2,000.00
44	Install Pipe Collar	EA	\$800.00	2	1,600.00
45	Concrete (Grade 4.0) (For RFB)	CY	\$725.00	151	109,475.00
46	Reinforcing Steel (Grade 60) (For RFB)	LBS	\$1.10	23,380	25,718.00
47	Class III Excavation	CY	\$25.00	550	13,750.00
48	Foundation Stabilization	CY	\$60.00	43	2,580.00
49	Concrete for Seal Course (Set Price \$275)	CY	\$275.00	1	275.00
50	Granular Backfill (Wingwalls)	CY	\$80.00	84	6,720.00
51	Handrail (Metal)	LF	\$100.00	82	8,200.00
52	Riprap (Light Stone 100)	SY	\$95.00	121	11,495.00
53	Riprap (1/4 Ton)	SY	\$95.00	750	71,250.00
54	Pipe Underdrain (6") (PVC)	LF	\$25.00	4,266	106,650.00
55	Sodding	SY	\$7.00	37,013	259,091.00
56	Erosion Control Blanket Class 1 (Type A)	SY	\$3.00	3,702	11,106.00
57	Permanent Seeding	AC	\$3,000.00	5.74	17,220.00
58	Pavement Marking 6" Solid White Edge Line (HPS-8)	LF	\$2.00	4,770	9,540.00
59	Pavement Marking 6" Solid Yellow Edge Line (HPS-8)	LF	\$2.00	1,021	2,042.00
60	Pavement Marking 6" Broken White Lane Line (HPS-8)	LF	\$2.00	2,600	5,200.00
61	Pavement Marking 4" Dotted White Lane Line (HPS-8)	LF	\$2.00	284	568.00
62	Pavement Marking 4" Dotted Yellow Lane Line (HPS-8)	LF	\$2.00	64	128.00
63	Pavement Marking 6" Solid White Lane Line (HPS-8)	LF	\$2.00	12,377	24,754.00
64	Pavement Marking 6" Dotted White Lane Line (HPS-8)	LF	\$2.25	346	778.50
65	Pavement Marking 4" Solid Double Yellow Lane Line (HPS-8)	LF	\$4.00	2,019	8,076.00
66	Pavement Marking 6" Solid White Type I Crosswalk Line (Preformed Thermoplastic)	LF	\$6.00	899	5,394.00
67	Pavement Marking 12" Solid Yellow Diagonal Line (Preformed Thermoplastic)	LF	\$12.00	11	132.00
68	Pavement Marking 12" Solid White Diagonal Line (Preformed Thermoplastic)	LF	\$12.00	167	2,004.00

Bid Item No.	Item Description	Unit	Unit Price	Qty	Extension
69	Pavement Marking 24" Solid White Stop Line (Preformed Thermoplastic)	LF	\$25.00	661	16,525.00
70	Pavement Marking Left Arrow (Preformed Thermoplastic)	EA	\$300.00	41	12,300.00
71	Pavement Marking Right Arrow (Preformed Thermoplastic)	EA	\$300.00	27	8,100.00
72	Pavement Marking Through/Merge Arrow (Preformed Thermoplastic)	EA	\$300.00	7	2,100.00
73	Pavement Marking Bike Symbol (Preformed Thermoplastic)	EA	\$350.00	36	12,600.00
74	Pavement Marking Bike Lane White Arrow (Preformed Thermoplastic)	EA	\$200.00	36	7,200.00
75	Pavement Marking Solid White Yield Triangle (Preformed Thermoplastic)	EA	\$100.00	8	800.00
76	Permanent Street Signing	LSUM	\$70,000.00	1	70,000.00
77	Concrete Safety Barrier (Type II) (@ Retaining Wall 3)	LF	\$170.00	256	43,520.00
78	Concrete Safety Barrier (Type I) (@ Retaining Wall 3)	LF	\$190.00	71	13,490.00
79	Moment Slab (at wall 3)	SY	\$550.00	144.4	79,442.00
80	Retaining Wall No. 3 (Old 56 Hwy - northwest quad) (MSE Wall)	SF	\$120.00	1,403	168,360.00
81	Guardrail, Steel Plate	LF	\$70.00	275	19,250.00
82	Guardrail, Bridge Transition	EA	\$3,000.00	4	12,000.00
83	Guardrail, End Terminal (MASH)	EA	\$4,000.00	4	16,000.00
84	Irrigation System Installation *	LSUM	\$150,000.00	1	150,000.00
85	Temporary Erosion Control	LSUM	\$70,000.00	1	70,000.00
86	Temporary Traffic Control	LSUM	\$225,000.00	1	225,000.00
87	Temporary Asphaltic Pavement (8") (East side of Lone Elm)	TON	\$75.00	252	18,900.00
88	Continuous Flow Intersection (CFI) Traffic Signals	LSUM	\$400,000.00	1	400,000.00
89	Fiber Optic Interconnect	LSUM	\$350,000.00	1	350,000.00
90	Street Lighting	LSUM	\$350,000.00	1	350,000.00
91	Relocate Existing Water Meter *	EA	\$500.00	1	500.00
92	Remove Existing Fire Hydrant Assembly *	EA	\$1,000.00	3	3,000.00
93	Remove Existing Water Meter *	EA	\$500.00	1	500.00
94	Remove Existing Valve From Service *	EA	\$500.00	3	1,500.00
95	Install 6" D.I.P. *	LF	\$90.00	152	13,680.00
96	Install 12" D.I.P. *	LF	\$180.00	2,792	502,560.00
97	Install 8" Gate Valve *	EA	\$1,500.00	1	1,500.00
98	Install 12" Gate Valve *	EA	\$2,500.00	7	17,500.00
99	Install Fire Hydrant Assembly *	EA	\$5,000.00	3	15,000.00
100	Install 3/4" Type "K" Copper Service Line *	LF	\$20.00	40	800.00
101	Install Water Meter Assembly *	EA	\$850.00	2	1,700.00
102	Install Air Relief Valve *	EA	\$2,000.00	1	2,000.00
103	Install 20" Steel Encasement Pipe *	LF	\$100.00	100	10,000.00
104	Connection to Existing Pipe *	EA	\$6,500.00	6	39,000.00
105	Bridge Mobilization	LSUM	\$150,000.00	1	150,000.00
106	BNSF RR Flagging	LSUM	\$75,000.00	1	75,000.00
107	Class I Excavation	CY	\$50.00	334	16,700.00
108	Concrete (Grade 4.0) (AE)	CY	\$1,050.00	92.7	97,335.00
109	Concrete (Grade 4.0) (AE) (SA)	CY	\$910.00	207.2	188,552.00
110	Reinforcing Steel (Grade 60)	LBS	\$1.10	2,470	2,717.00
111	Reinforcing Steel (Grade 60) (Epoxy Coated)	LBS	\$1.35	53,850	72,697.50
112	Reinforcing Steel (Repair) (Grade 60) (Epoxy Coated) (Set Price \$3.75)	LBS	\$3.75	1	3.75
113	Structural Steel (A709) (Grade 50W)	LBS	\$2.50	43,102	107,755.00
114	Welded Stud Shear Connectors	EA	\$6.50	192	1,248.00
115	U-Bolt Pipe Supports	EA	\$75.00	68	5,100.00
116	Area Prepared for Patching	SY	\$1,500.00	2	3,000.00
117	Area Prepared for Patching (Full Depth)	SY	\$3,000.00	1	3,000.00
118	Multi-Layer Polymer Concrete Overlay	SY	\$30.00	1,156	34,680.00
119	Abutment Strip Drain	SY	\$50.00	130	6,500.00
120	Bridge Backwall Protection System	SY	\$45.00	149	6,705.00
121	Falsework Inspection	LSUM	\$20,000.00	1	20,000.00
122	Slope Protection (Aggregate)	CY	\$150.00	12	1,800.00
123	Removal of Existing Bridge (partial)	LSUM	\$75,000.00	1	75,000.00
124	Drilling and Grouting	EA	\$20.00	388	7,760.00
125	Moment Slab (at bridge)	SY	\$550.00	32	17,600.00
126	Pier Post-Tensioning	LSUM	\$60,000.00	1	60,000.00
127	Fence - 9' - 6" (Special)	LF	\$200.00	366	73,200.00
128	Fence - 4' - 6" (Special)	LF	\$175.00	42	7,350.00
129	Fence - 4' (Special)	LF	\$175.00	66	11,550.00
130	Bridge Handrail (Metal) (Special)	LF	\$130.00	485	63,050.00
131	Concrete Pavement (10.0" Unif.)(AE)(Bridge Approach Slab)	SY	\$350.00	226	79,100.00
132	Bridge Sidewalk Columns (8) Aesthetic Treatment *	LSUM	\$130,000.00	1	130,000.00
133	Class I Excavation (Cast-in-Place Concrete Ret Wall by Bridge)	CY	\$35.00	100	3,500.00
134	Concrete (Grade 4.0) (AE) (Cast-in-Place Concrete Ret Wall by Bridge)	CY	\$1,050.00	40	42,000.00
135	Reinforcing Steel (Grade 60) (Cast-in-Place Concrete Ret Wall by Bridge)	LBS	\$1.10	4,810	5,291.00
136	Formliner (Cast-in-Place Concrete Ret Wall by Bridge)	SY	\$75.00	465	34,875.00
137	6" Dia. RMC Conduit	LF	\$10.00	1,100	11,000.00
138	Owner's Contingency \$300,000 *	LSUM	\$300,000.00	1	300,000.00
	Sub-Total				13,994,917.25
	Total Construction Cost				13,994,917.25
Note: All Unit Prices based on 2019 values. The costs shown on this estimate represent an estimate of probable costs prepared in good faith and with reasonable care. HDR has no control over the costs of construction labor materials, or equipment, not over competitive bidding or negotiating methods and does not make any commitment or assume any duty to assure that bids or negotiated prices will not vary from this estimate. This estimate does not include costs for right-of-way, utility relocation, and engineering administration.					