

Mill 5 - Intersection/Signal Improvements

Engineer's Opinion of Probable Costs -

April 26, 2018

Mill 5: West 38th Ave & Peoria at 49th/Andrew Traffic Signal Upgrade

Contract 201842444				Project Totals		WL Contractors		Sturgeon Electric		Paonia, Inc	
Engineer's Estimate						Liberty Mutual Insurance Co.		Liberty Mutual Insurance Co.		Employers Mutual Casualty Co.	
Item	Item	Unit \$	Unit	Qty	Total	Unit Bid Cost	Total Bid Item	Unit Bid Cost	Total Bid Item	Unit Bid Cost	Total Bid Item
202-00190	Removal of Concrete Median Cover Material	\$24.00	Square Yard	18	\$ 432.00	\$ 35.00	\$ 630.00	\$ 25.30	\$ 455.40	\$ 38.00	\$ 684.00
202-00200	Removal of Sidewalk	\$24.00	Square Yard	604	\$ 14,496.00	\$ 35.00	\$ 21,140.00	\$ 23.75	\$ 14,345.00	\$ 22.00	\$ 13,288.00
202-00203	Removal of Curb and Gutter	\$12.00	Linear Foot	1001	\$ 12,012.00	\$ 17.00	\$ 17,017.00	\$ 14.10	\$ 14,114.10	\$ 10.00	\$ 10,010.00
202-00206	Removal of Concrete Curb Ramp	\$30.00	Square Yard	179	\$ 5,370.00	\$ 35.00	\$ 6,265.00	\$ 24.75	\$ 4,430.25	\$ 28.00	\$ 5,012.00
202-00220	Removal of Asphalt Mat	\$24.00	Square Yard	287	\$ 6,888.00	\$ 40.00	\$ 11,480.00	\$ 24.75	\$ 7,103.25	\$ 35.00	\$ 10,045.00
202-00810	Removal of Ground Sign	\$200.00	Each	2	\$ 400.00	\$ 85.00	\$ 170.00	\$ 162.60	\$ 325.20	\$ 95.00	\$ 190.00
202-00821	Removal of Sign Panel	\$200.00	Each	2	\$ 400.00	\$ 75.00	\$ 150.00	\$ 162.60	\$ 325.20	\$ 55.00	\$ 110.00
202-00828	Removal of Traffic Signal Equipment	\$36,000.00	Lump Sum	1	\$ 36,000.00	\$ 26,350.00	\$ 26,350.00	\$ 24,772.05	\$ 24,772.05	\$ 30,000.00	\$ 30,000.00
203-00100	Muck Excavation	\$100.00	Cubic Yard	3	\$ 300.00	\$ 250.00	\$ 750.00	\$ 901.00	\$ 2,703.00	\$ 410.00	\$ 1,230.00
203-01597	Patholing	\$250.00	Each	130	\$ 32,500.00	\$ 175.00	\$ 22,750.00	\$ 327.20	\$ 42,536.00	\$ 165.00	\$ 21,450.00
210-00473	Reset TV Camera	\$800.00	Each	2	\$ 1,600.00	\$ 700.00	\$ 1,400.00	\$ 1,212.75	\$ 2,425.50	\$ 1,700.00	\$ 3,400.00
210-00479	Reset Radio Communication Antenna	\$700.00	Each	7	\$ 4,900.00	\$ 515.00	\$ 3,605.00	\$ 888.00	\$ 6,216.00	\$ 265.00	\$ 1,855.00
210-00810	Reset Ground Sign	\$350.00	Each	1	\$ 350.00	\$ 85.00	\$ 85.00	\$ 81.30	\$ 81.30	\$ 260.00	\$ 260.00
210-00815	Reset Sign Panel	\$175.00	Each	2	\$ 350.00	\$ 117.00	\$ 234.00	\$ 81.30	\$ 162.60	\$ 185.00	\$ 370.00
210-04020	Modify Inlet	\$5,000.00	Each	1	\$ 5,000.00	\$ 4,500.00	\$ 4,500.00	\$ 3,231.30	\$ 3,231.30	\$ 6,000.00	\$ 6,000.00
403-00720	Hot Mix Asphalt (Patching) (Asphalt)	\$230.00	Ton	121	\$ 27,830.00	\$ 375.00	\$ 45,375.00	\$ 324.35	\$ 39,246.35	\$ 325.00	\$ 39,325.00
503-00200	Caisson (Special)	\$540.00	Linear Foot	366	\$ 197,640.00	\$ 450.00	\$ 164,700.00	\$ 459.20	\$ 168,067.20	\$ 569.00	\$ 208,254.00
608-00000	Concrete Sidewalk	\$80.00	Square Yard	535	\$ 42,800.00	\$ 70.00	\$ 37,450.00	\$ 62.80	\$ 33,598.00	\$ 85.00	\$ 45,475.00
608-00005	Concrete Sidewalk (Special)	\$100.00	Square Yard	27	\$ 2,700.00	\$ 75.00	\$ 2,025.00	\$ 74.30	\$ 2,006.10	\$ 150.00	\$ 4,050.00
608-00010	Concrete Curb Ramp (5' Wide)	\$225.00	Square Yard	167	\$ 37,575.00	\$ 195.00	\$ 32,565.00	\$ 170.45	\$ 28,465.15	\$ 160.00	\$ 26,720.00
608-00010	Concrete Curb Ramp (6' Wide)	\$300.00	Square Yard	11	\$ 3,300.00	\$ 220.00	\$ 2,420.00	\$ 209.35	\$ 2,302.85	\$ 200.00	\$ 2,200.00
609-21010	Curb and Gutter Type 2 (Section I-B)	\$33.00	Linear Foot	14	\$ 462.00	\$ 32.00	\$ 448.00	\$ 46.60	\$ 652.40	\$ 75.00	\$ 1,050.00
609-21020	Curb and Gutter Type 2 (Section II-B)	\$35.00	Linear Foot	976	\$ 34,160.00	\$ 35.00	\$ 34,160.00	\$ 30.00	\$ 29,280.00	\$ 35.00	\$ 34,160.00
610-00024	Median Cover Material (6" Concrete)	\$16.00	Square Foot	772	\$ 12,352.00	\$ 20.00	\$ 15,440.00	\$ 13.20	\$ 10,190.40	\$ 16.00	\$ 12,352.00
613-01200	2 Inch Electrical Conduit (Plastic)	\$37.00	Linear Foot	2075	\$ 76,775.00	\$ 22.00	\$ 45,650.00	\$ 24.20	\$ 50,215.00	\$ 10.00	\$ 20,750.00
613-01300	3 Inch Electrical Conduit (Plastic)	\$43.00	Linear Foot	3960	\$ 170,280.00	\$ 23.00	\$ 91,080.00	\$ 24.70	\$ 97,812.00	\$ 15.00	\$ 59,400.00
613-07003	Pull Box (Special)	\$1,250.00	Each	9	\$ 11,250.00	\$ 950.00	\$ 8,550.00	\$ 1,493.00	\$ 13,437.00	\$ 1,295.00	\$ 11,655.00
613-10000	Wiring	\$14,000.00	Lump Sum	1	\$ 14,000.00	\$ 31,000.00	\$ 31,000.00	\$ 55,590.00	\$ 55,590.00	\$ 50,000.00	\$ 50,000.00
613-13000	Luminaire (LED)	\$1,000.00	Each	28	\$ 28,000.00	\$ 765.00	\$ 21,420.00	\$ 831.15	\$ 23,272.20	\$ 800.00	\$ 22,400.00
613-40010	Light Standard Foundation	\$2,900.00	Each	2	\$ 5,800.00	\$ 1,250.00	\$ 2,500.00	\$ 2,402.20	\$ 4,804.40	\$ 1,000.00	\$ 2,000.00
613-80130	Service Meter Cabinet	\$4,500.00	Each	7	\$ 31,500.00	\$ 3,500.00	\$ 24,500.00	\$ 4,095.00	\$ 28,665.00	\$ 5,000.00	\$ 35,000.00
614-00011	Sign Panel (Class I)	\$35.00	Square Foot	453	\$ 15,855.00	\$ 35.00	\$ 15,855.00	\$ 32.85	\$ 14,881.05	\$ 24.00	\$ 10,872.00
614-00216	Sign Post Steel (2 Inch x 2 Inch Tubing)	\$24.00	Linear Foot	91	\$ 2,184.00	\$ 24.00	\$ 2,184.00	\$ 37.90	\$ 3,448.90	\$ 133.00	\$ 12,103.00
614-70150	Pedestrian Signal Face (16) (Countdown)	\$570.00	Each	48	\$ 27,360.00	\$ 460.00	\$ 22,080.00	\$ 670.00	\$ 32,160.00	\$ 519.00	\$ 24,912.00
614-70336	Traffic Signal Face (LED) (12-12-12)	\$700.00	Each	109	\$ 76,300.00	\$ 720.00	\$ 78,480.00	\$ 947.00	\$ 103,223.00	\$ 859.00	\$ 93,631.00
614-72848	Traffic Signal Controller and Cabinet	\$21,000.00	Each	7	\$ 147,000.00	\$ 30,500.00	\$ 213,500.00	\$ 30,491.00	\$ 213,437.00	\$ 25,715.00	\$ 180,005.00
614-72860	Pedestrian Push Button	\$280.00	Each	24	\$ 6,720.00	\$ 265.00	\$ 6,360.00	\$ 360.00	\$ 8,640.00	\$ 340.00	\$ 8,160.00
614-72866	Fire Preemption Unit and Timer	\$9,500.00	Each	6	\$ 57,000.00	\$ 7,570.00	\$ 45,420.00	\$ 8,876.00	\$ 53,256.00	\$ 6,400.00	\$ 38,400.00
614-72886	Intersection Detection System (Camera)	\$8,500.00	Each	14	\$ 119,000.00	\$ 8,330.00	\$ 116,620.00	\$ 7,690.20	\$ 107,662.80	\$ 8,900.00	\$ 124,600.00
614-81000	Traffic Signal-Light Pole Steel	\$6,500.00	Each	2	\$ 13,000.00	\$ 3,620.00	\$ 7,240.00	\$ 2,745.30	\$ 5,490.60	\$ 3,000.00	\$ 6,000.00
614-81120	Traffic Signal-Light Pole Steel (1-20 Foot Mast Arm)	\$8,500.00	Each	5	\$ 42,500.00	\$ 9,805.00	\$ 49,025.00	\$ 9,032.00	\$ 45,160.00	\$ 10,000.00	\$ 50,000.00
614-81125	Traffic Signal-Light Pole Steel (1-25 Foot Mast Arm)	\$9,000.00	Each	5	\$ 45,000.00	\$ 10,161.00	\$ 50,805.00	\$ 9,347.50	\$ 46,737.50	\$ 10,500.00	\$ 52,500.00
614-81130	Traffic Signal-Light Pole Steel (1-30 Foot Mast Arm)	\$9,500.00	Each	1	\$ 9,500.00	\$ 10,606.00	\$ 10,606.00	\$ 10,255.10	\$ 10,255.10	\$ 11,000.00	\$ 11,000.00
614-81135	Traffic Signal-Light Pole Steel (1-35 Foot Mast Arm)	\$10,000.00	Each	5	\$ 50,000.00	\$ 10,988.00	\$ 54,940.00	\$ 10,706.80	\$ 53,534.00	\$ 11,500.00	\$ 57,500.00
614-81140	Traffic Signal-Light Pole Steel (1-40 Foot Mast Arm)	\$10,500.00	Each	3	\$ 31,500.00	\$ 11,736.00	\$ 35,208.00	\$ 11,234.10	\$ 33,702.30	\$ 12,000.00	\$ 36,000.00
614-81145	Traffic Signal-Light Pole Steel (1-45 Foot Mast Arm)	\$11,500.00	Each	3	\$ 34,500.00	\$ 13,645.00	\$ 40,935.00	\$ 13,472.00	\$ 40,416.00	\$ 13,500.00	\$ 40,500.00
614-81150	Traffic Signal-Light Pole Steel (1-50 Foot Mast Arm)	\$13,000.00	Each	1	\$ 13,000.00	\$ 13,950.00	\$ 13,950.00	\$ 14,175.75	\$ 14,175.75	\$ 15,000.00	\$ 15,000.00
614-81155	Traffic Signal-Light Pole Steel (1-55 Foot Mast Arm)	\$14,500.00	Each	2	\$ 29,000.00	\$ 14,430.00	\$ 28,860.00	\$ 14,914.00	\$ 29,828.00	\$ 15,500.00	\$ 31,000.00
614-81225	Traffic Signal-Light Pole Steel (2-25 Foot Mast Arm)	\$15,000.00	Each	1	\$ 15,000.00	\$ 13,980.00	\$ 13,980.00	\$ 14,598.00	\$ 14,598.00	\$ 15,000.00	\$ 15,000.00

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Item	Item	Unit \$	Unit	Qty	Total	Unit Bid Cost	Total Bid Item	Unit Bid Cost	Total Bid Item	Unit Bid Cost	Total Bid Item
625-00000	Construction Surveying	\$35,000.00	Lump Sum	1	\$ 35,000.00	\$ 21,126.00	\$ 21,126.00	\$ 22,700.30	\$ 22,700.30	\$ 14,000.00	\$ 14,000.00
626-00000	Mobilization	\$42,000.00	Lump Sum	1	\$ 42,000.00	\$ 55,000.00	\$ 55,000.00	\$ 58,944.10	\$ 58,944.10	\$ 48,000.00	\$ 48,000.00
627-00005	Epoxy Pavement Marking	\$200.00	Gallon	7	\$ 1,400.00	\$ 415.00	\$ 2,905.00	\$ 373.80	\$ 2,616.60	\$ 860.00	\$ 6,020.00
627-30410	Preformed Thermoplastic Pavement Mkg (Xwalk-Stopline)	\$18.00	Square Foot	4009	\$ 72,162.00	\$ 16.00	\$ 64,144.00	\$ 12.75	\$ 51,114.75	\$ 22.00	\$ 88,198.00
629-01001	Survey Monument	\$500.00	Each	30	\$ 15,000.00	\$ 750.00	\$ 22,500.00	\$ 164.00	\$ 4,920.00	\$ 185.00	\$ 5,550.00
630-00003	Uniformed Traffic Control	\$110.00	Hour	108	\$ 11,880.00	\$ 135.00	\$ 14,580.00	\$ 118.00	\$ 12,744.00	\$ 125.00	\$ 13,500.00
630-00008	Construction Traffic Control (Special)	\$208,800.00	Lump Sum	1	\$ 208,800.00	\$ 212,000.00	\$ 212,000.00	\$ 190,338.00	\$ 190,338.00	\$ 265,000.00	\$ 265,000.00
							\$ -		\$ -		\$ -
	Bid Item Subtotal				\$ 1,938,083.00		\$ -		\$ -		\$ -
							\$ -		\$ -		\$ -
A/W 01	Furnish and Install Electrical Service	\$50,000.00	A/W	1	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00
A/W 02	Erosion Control	\$20,000.00	A/W	1	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00
A/W 03	Environmental Health and Safety	\$5,000.00	A/W	1	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00
	Total Allowances				\$ 75,000.00						
	Total Project Cost				\$ 2,013,083.00		\$ 1,949,112.00		\$ 1,959,813.95		\$ 2,001,146.00
						Textura Fee	\$ 5,850.00		\$ 5,850.00		\$ 5,850.00
						Total Bid	\$ 1,954,962.00		\$ 1,965,663.95		\$ 2,006,996.00