

**Project #2020-01  
Cudahy Traffic Signal Improvements - Pennsylvania & Grange**

**OUTDOOR LIGHTING**  
8628 W. Calumet Rd. Milw,  
WI 53224

**MP SYSTEMS**  
5477 S. Westridge  
New Berlin, WI 53151

**ZENITH TECH**  
N6W23673 Bluemound  
PO Box 1028  
Waukesha, WI 53187

Estimated quantities are not guaranteed and determination of actual quantities and classification are to be made by the Engineer.

Item #	Description	Qty	Unit	Unit Cost	Total Cost	Qty	Unit	Unit Cost	Total Cost	Qty	Unit	Unit Cost	Total Cost
<b>Concrete Items</b>													
1	Furnish Sawcut	250	LF	\$ 4.00	\$ 1,000.00	250	LF	\$ 6.64	\$ 1,660.00	250	LF	\$ 2.75	\$ 687.50
2	Furnish Concrete Pavement Removal	600	SF	\$ 6.50	\$ 3,900.00	600	SF	\$ 13.29	\$ 7,974.00	600	SF	\$ 10.11	\$ 6,066.00
3	Furnish & Place 30" Curb & Gutter (w/ 1-1/4" Stone Base)	170	LF	\$ 49.50	\$ 8,415.00	170	LF	\$ 66.44	\$ 11,294.80	170	LF	\$ 66.91	\$ 11,374.70
4	Furnish & Place 7" Conc. Handicap Ramp/Sidewalk (w/ 2" - 4" Leveling Course)	1,690	SF	\$ 12.00	\$ 20,280.00	1,690	SF	\$ 11.96	\$ 20,212.40	1,690	SF	\$ 21.20	\$ 35,828.00
5	Furnish & Place 5" Concrete Sidewalk (w/ 2" Leveling Course)	80	SF	\$ 12.00	\$ 960.00	80	SF	\$ 15.95	\$ 1,276.00	80	SF	\$ 18.31	\$ 1,464.80
6	Remove & Replace 9" Doweled Concrete Pavment	25	SY	\$ 120.00	\$ 3,000.00	25	SY	\$ 332.20	\$ 8,305.00	25	SY	\$ 96.15	\$ 2,403.75
7	Concrete Median Sloped Plow Nose	50	SF	\$ 20.00	\$ 1,000.00	50	SF	\$ 33.22	\$ 1,661.00	50	SF	\$ 19.26	\$ 963.00
8	Concrete Safety Island	175	SF	\$ 20.00	\$ 3,500.00	175	SF	\$ 33.22	\$ 5,813.50	175	SF	\$ 29.09	\$ 5,090.75
9	Furnish Tie Bars - Drilled	60	EA	\$ 12.00	\$ 720.00	60	EA	\$ 19.93	\$ 1,195.80	60	EA	\$ 19.20	\$ 1,152.00
10	Furnish Dowel Bars - Drilled	16	EA	\$ 50.00	\$ 800.00	16	EA	\$ 33.22	\$ 531.52	16	EA	\$ 21.26	\$ 340.16
11	Furnish & Install 1/2" Felt	140	LF	\$ 1.00	\$ 140.00	140	LF	\$ 9.30	\$ 1,302.00	140	LF	\$ 0.01	\$ 1.40
12	Furnish & Install 1/2" Felt "Boot"	5	EA	\$ 6.00	\$ 30.00	5	EA	\$ 53.15	\$ 265.75	5	EA	\$ 0.01	\$ 0.05
13	Furnish Linseed Oil Cure	10	GAL	\$ 10.00	\$ 100.00	10	GAL	\$ 26.58	\$ 265.80	10	GAL	\$ 36.52	\$ 365.20
14	Pull Box Casting Adjustment	6	EA	\$ 130.00	\$ 780.00	6	EA	\$ 664.41	\$ 3,986.46	6	EA	\$ 355.53	\$ 2,133.18
15	Furnish & Place Detectable Warning Fields - (24" x 30" Cast DWD Yellow)	8	EA	\$ 300.00	\$ 2,400.00	8	EA	\$ 730.85	\$ 5,846.80	8	EA	\$ 209.35	\$ 1,674.80
<b>Traffic Signal Items</b>													
16	Remove Existing Traffic Signals	1	LS	\$ 8,370.00	\$ 8,370.00	1	LS	\$ 5,982.10	\$ 5,982.10	1	LS	\$ 6,586.55	\$ 6,586.55
17	Remove Existing Pull Box	2	EA	\$ 329.00	\$ 658.00	2	EA	\$ 129.93	\$ 259.86	2	EA	\$ 143.06	\$ 286.12
18	Remove Concrete Pole Base	5	EA	\$ 575.00	\$ 2,875.00	5	EA	\$ 349.93	\$ 1,749.65	5	EA	\$ 385.29	\$ 1,926.45
19	Furnish & Install Conduit Rigid Nonmetallic Schedule 40, 2"-3"-Inch	80	LF	\$ 10.03	\$ 802.40	80	LF	\$ 6.88	\$ 550.40	80	LF	\$ 7.58	\$ 606.40
20	Furnish & Install Electrical Wire Traffic Signals 10 AWG	1,085	LF	\$ 1.18	\$ 1,280.30	1,085	LF	\$ 0.76	\$ 824.60	1,085	LF	\$ 0.84	\$ 911.40
21	Furnish & Install Cable Traffic Signal 5-14 AWG	400	LF	\$ 1.36	\$ 544.00	400	LF	\$ 0.91	\$ 364.00	400	LF	\$ 1.00	\$ 400.00
22	Furnish & Install Cable Traffic Signal 7-14 AWG	620	LF	\$ 1.53	\$ 948.60	620	LF	\$ 1.25	\$ 775.00	620	LF	\$ 1.37	\$ 849.40
23	Furnish & Install Cable Traffic Signal 12-14 AWG	1,180	LF	\$ 1.93	\$ 2,277.40	1,180	LF	\$ 1.84	\$ 2,171.20	1,180	LF	\$ 2.03	\$ 2,395.40
24	Furnish & Install Cable Type UF, 2-12 AWG Grounded	470	LF	\$ 1.53	\$ 719.10	470	LF	\$ 0.66	\$ 310.20	470	LF	\$ 0.73	\$ 343.10
25	Furnish & Install Electrical Wire, Lighting, 10 AWG	435	LF	\$ 1.18	\$ 513.30	435	LF	\$ 0.63	\$ 274.05	435	LF	\$ 0.69	\$ 300.15
<b>Traffic Signal Items Continued</b>													
26	Furnish & Install Concrete Pole Base - Type 1/Type 2 Pole Base	2	EA	\$ 904.00	\$ 1,808.00	2	EA	\$ 1,646.89	\$ 3,293.78	2	EA	\$ 1,813.30	\$ 3,626.60
27	Install Pull Box - Steel 24x42-Inch (PB5)	1	EA	\$ 1,015.50	\$ 1,015.50	1	EA	\$ 878.56	\$ 878.56	1	EA	\$ 967.33	\$ 967.33
28	Install City Supplied Monopole (Type 13 pole, 35-45 FT Monotube Arm, 15 FT Luminaire Arm)	2	EA	\$ 14,306.00	\$ 28,612.00	2	EA	\$ 12,184.57	\$ 24,369.14	2	EA	\$ 13,415.73	\$ 26,831.46
29	Install City Supplied Traffic Signal Standard, 13-15 FT Pole w/ Pedestal Base	5	EA	\$ 185.50	\$ 927.50	5	EA	\$ 463.23	\$ 2,316.15	5	EA	\$ 510.04	\$ 2,550.20
30	Install City Supplied Traffic Signal Standard, 10 FT Pole w/ Pedestal Base	1	EA	\$ 185.50	\$ 185.50	1	EA	\$ 290.91	\$ 290.91	1	EA	\$ 320.31	\$ 320.31
31	Install City Supplied Signal/Street Light Pole (Type 3) w/ Transformer Base, 6 FT Luminaire Arm	1	EA	\$ 938.50	\$ 938.50	1	EA	\$ 922.74	\$ 922.74	1	EA	\$ 1,015.98	\$ 1,015.98
32	Furnish & Install Traffic Signal Faces 3S 12-Inch	12	EA	818	\$ 9,816.00	12	EA	682.5	\$ 8,190.00	12	EA	751.47	\$ 9,017.64
33	Furnish & Install Traffic Signal Faces 4S 12-Inch	4	EA	1107	\$ 4,428.00	4	EA	917.9	\$ 3,671.60	4	EA	1010.65	\$ 4,042.60
34	Furnish & Install Pedestrian Signal Face 16-Inch	4	EA	534.2	\$ 2,136.80	4	EA	444.71	\$ 1,778.84	4	EA	489.65	\$ 1,958.60
35	Furnish & Install Pedestrian Push Button	4	EA	359	\$ 1,436.00	4	EA	348.14	\$ 1,392.56	4	EA	383.31	\$ 1,533.24
36	Furnish & Install Luminaire, LED C	3	EA	\$ 509.00	\$ 1,527.00	3	EA	\$ 674.74	\$ 2,024.22	3	EA	\$ 742.92	\$ 2,228.76
37	Remove and Reinstall Emergency Vehicle Preemption System	1	LS	\$ 4,328.00	\$ 4,328.00	1	LS	\$ 5,231.14	\$ 5,231.14	1	LS	\$ 5,759.71	\$ 5,759.71
38	Furnish & Install Video Vehicle Detection System	1	LS	\$ 24,875.00	\$ 24,875.00	1	LS	\$ 28,202.17	\$ 28,202.17	1	LS	\$ 31,051.79	\$ 31,051.79
39	Modify Traffic Signals & Street Lighting	1	LS	\$ 22,135.00	\$ 22,135.00	1	LS	\$ 9,619.95	\$ 9,619.95	1	LS	\$ 10,591.97	\$ 10,591.97
<b>General Items</b>													
40	Furnish & Maintain Traffic Control w/ Detour	1	LS	\$ 14,542.20	\$ 14,542.20	1	LS	\$ 16,554.80	\$ 16,554.80	1	LS	\$ 16,335.67	\$ 16,335.67
41	Furnish & Place 4" Topsoil & Sod(w/ Watering)	170	SY	\$ 17.17	\$ 2,918.90	170	SY	\$ 22.82	\$ 3,879.40	170	SY	\$ 20.00	\$ 3,400.00
42	Furnish, Install, & Maintain Inlet Protection	5	EA	\$ 90.90	\$ 454.50	5	EA	\$ 120.79	\$ 603.95	5	EA	\$ 50.00	\$ 250.00
<b>Total of Items 1-42</b>				\$	188,097.50			\$	198,071.80			\$	205,632.12
<b>Contingency</b>				\$	25,000			\$	25,000			\$	25,000
<b>TOTAL</b>				\$	213,097.50			\$	223,071.80			\$	230,632.12