

August 23, 2018

TO THE BOARD OF PUBLIC WORKS  
CITY OF WAUKESHA, WISCONSIN

Periodical estimate for Partial Payment No. 8 and Final to Zenith Tech, Inc. N6 W23633 Bluemound Rd., Waukesha, WI 53187 for W. Sunset Dr. And S. Grand Ave. Intersection Improvements.

Contract No. 4016

Original	\$ 524,282.05
Amended	\$ 555,843.85 (CCO #1)
Amended	\$ 651,967.00 (CCO #2)
Amended	\$ 613,497.80 (CCO #3)


Item No	Bid Quantity	Completed Quantity	Description	Cost	Per Unit	Amount
1	1	1.33	Lump Sum Traffic Control	@ \$ 23,100.00	Lump Sum	\$30,723.00
2	1	1.0	Lump Sum Temporary Traffic Signal (W Sunset & S Grand)	@ \$ 20,550.00	Lump Sum	\$20,550.00
3	252	252	Lin. Ft. of 18-Inch PVC Sanitary Sewer	@ \$ 147.00	Lin. Ft.	\$37,044.00
4	20	20	Lin. Ft. of 6-Inch PVC Sanitary Lateral	@ \$ 128.00	Lin. Ft.	\$2,560.00
5	2	2	Rehabilitate Sanitary Manhole with Cementitious Liner	@ \$ 2,465.00	Each	\$4,930.00
6	2	2	Install Chimney Seal	@ \$ 410.00	Each	\$820.00
7	4	2	Chimney Replacement	@ \$ 1,025.00	Each	\$2,050.00
8	8	0	Storm Sewer Inlet Repair	@ \$ 410.00	Vert. Ft.	\$0.00
9	2	0	Storm Sewer Manhole Repair	@ \$ 410.00	Vert. Ft.	\$0.00
10	252	252	Lin. Ft. of Sanitary Sewer Televising - Prepaving	@ \$ 3.40	Lin. Ft.	\$856.80
11	2	2	Sanitary Lateral Televising - Prepaving	@ \$ 452.00	Each	\$904.00
12	50	0	Cu. Yds. of Slurry Backfill	@ \$ 93.00	Cu. Yd.	\$0.00
13	20	0	Silt Fence, Delivered, Installed and Maintained	@ \$ 15.50	Lin. Ft.	\$0.00
14	20	0	Straw Bales Delivered, Installed and Maintained	@ \$ 10.00	Each	\$0.00
15	6	6	Filter Fabric Inlet Protection	@ \$ 55.00	Each	\$330.00
16	800	512	Lin. Ft. of Sawcutting at Pavement Limits	@ \$ 2.00	Lin. Ft.	\$1,024.00
17	100	20	Tons of 1 1/4-Inch Dense Aggregate	@ \$ 20.00	Ton	\$400.00
18	12000	14,807	Sq. Ft. of Concrete Pavement Removal and Replacement	@ \$ 5.65	Sq. Ft.	\$83,659.55
19	1200	2,300	Sq. Ft. of Side Walk Removal	@ \$ 2.00	Sq. Ft.	\$4,600.00
20	800	1,252	Lin. Ft. of Concrete Curb and Gutter Removal and Replacement	@ \$ 42.00	Lin. Ft.	\$52,584.00
21	1200	3,847	Sq. Ft. of New 4-Inch Concrete Walk and Curb Ramps	@ \$ 5.25	Sq. Ft.	\$20,196.75
22	130	96	Sq. Ft. of Detectable Warning Surface	@ \$ 25.00	Sq. Ft.	\$2,400.00
23	50	36	Lin. Ft. of Concrete Curb - Pedestrian	@ \$ 25.00	Lin. Ft.	\$900.00
24	200	0	Sq. Ft. of Concrete Median Sloped Nose	@ \$ 7.50	Sq. Ft.	\$0.00
25	3000	2,400	Lin. Ft. of Pavement Markings, Yellow, Epoxy, 4-Inch	@ \$ 0.90	Lin. Ft.	\$2,160.00
26	1400	450	Lin. Ft. of Pavement Markings, White, Epoxy, 4-Inch	@ \$ 0.90	Lin. Ft.	\$405.00
27	1000	0	Lin. Ft. of Pavement Markings, White, Epoxy, 6-Inch	@ \$ 7.25	Lin. Ft.	\$0.00
28	600	250	Lin. Ft. of Pavement Markings, White, Epoxy, 8-Inch	@ \$ 1.65	Lin. Ft.	\$412.50
29	200	126	Lin. Ft. of Pavement Markings, White, Epoxy, 18-Inch	@ \$ 8.75	Lin. Ft.	\$1,102.50
30	300	0	Lin. Ft. of Pavement Markings, Yellow, Epoxy, 12-Inch	@ \$ 5.25	Lin. Ft.	\$0.00
31	600	0	Lin. Ft. of Pavement Markings, Yellow, Epoxy, 4-Inch, (30' Skip, 10' Line)	@ \$ 0.95	Lin. Ft.	\$0.00
32	14	0	Pavement Markings, White, Epoxy, Arrows, Type 2	@ \$ 220.00	Each	\$0.00
33	7	0	Pavement Markings, White, Epoxy, Words "ONLY"	@ \$ 260.00	Each	\$0.00
34	100	458	Topsoil and Sod (Includes Stripping)	@ \$ 18.50	Sq. Yd.	\$8,473.00
35	25	0	Extra Bags of Cement for High-Early-Strength Concrete	@ \$ 10.85	Each	\$0.00
36	7	0	Street Light Pull Boxes 15 x 30 Inch	@ \$ 720.00	Each	\$0.00
37	1	1	Temporary Street Lighting Overhead Wiring	@ \$ 5,645.00	Lump Sum	\$5,645.00
38	300	0	Lin. Ft. of #10 AWG wire	@ \$ 0.72	Lin. Ft.	\$0.00

39	300	440	Lin. Ft. of #6 AWG wire	@	\$	0.87	Lin. Ft.	\$382.80
40	300	1,760	Lin. Ft. of #4 AWG wire	@	\$	1.13	Lin. Ft.	\$1,988.80
41	500	332	Conduit Rigid Nonmetallic Schedule 40 2-Inch (WisDOT Pay Item 652.0225)	@	\$	5.65	Lin. Ft.	\$1,875.80
42	1000	920	Conduit Rigid Nonmetallic Schedule 40 3-Inch (WisDOT Pay Item 652.0235)	@	\$	6.70	Lin. Ft.	\$6,164.00
43	14	22	Pull Boxes Steel 24x42-Inch (WisDOT Pay Item 653.0140)	@	\$	800.00	Each	\$17,600.00
44	9	9	Concrete Bases Type 1 (WisDOT Pay Item 654.0101)	@	\$	642.00	Each	\$5,778.00
45	6	4	Concrete Bases Type 2 (WisDOT Pay Item 654.0102) - W Sunset & Grand	@	\$	820.00	Each	\$3,280.00
46	1	1	Concrete Bases Type 2 (WisDOT Pay Item 654.0102) - W Sunset & West	@	\$	820.00	Each	\$820.00
47	1	1	Concrete Bases Type 5 (WisDOT Pay Item 654.0105)	@	\$	667.00	Each	\$667.00
48	2	2	Concrete Bases Type 10 (WisDOT Pay Item 654.0110) - W Sunset & Grand	@	\$	3,800.00	Each	\$7,600.00
49	1	1	Concrete Bases Type 10 (WisDOT Pay Item 654.0110) - W Sunset & West	@	\$	3,800.00	Each	\$3,800.00
50	1	1	Concrete Control Cabinet Bases Type 9 Special (WisDOT Pay Item 654.0217)	@	\$	1,285.00	Each	\$1,285.00
51	400	0	Cable Traffic Signal 5-14 AWG (WisDOT Pay Item 655.0230)	@	\$	1.05	Lin. Ft.	\$0.00
52	400	1,580	Cable Traffic Signal 7-14 AWG (WisDOT Pay Item 655.0240)	@	\$	1.10	Lin. Ft.	\$1,738.00
53	1600	2,254	Cable Traffic Signal 12-14 AWG (WisDOT Pay Item 655.0260)	@	\$	1.30	Lin. Ft.	\$2,930.20
54	600	733	Cable Type UF 2-10 AWG Grounded (WisDOT Pay Item 655.0320)	@	\$	1.40	Lin. Ft.	\$1,026.20
55	1200	1,190	Electrical Wire Traffic Signals 10 AWG (WisDOT Pay Item 655.0515)	@	\$	0.75	Lin. Ft.	\$892.50
56	600	0	Electrical Wire Lighting 10 AWG (WisDOT Pay Item 655.0615)	@	\$	0.75	Lin. Ft.	\$0.00
57	1	1	Electrical Service Meter Breaker Pedestal W Sunset & S Grand (WisDOT Pay Item 656.0200.01)	@	\$	1,540.00	Lump Sum	\$1,540.00
58	9	9	Pedestal Bases (WisDOT Pay Item 657.0100)	@	\$	155.00	Each	\$1,395.00
59	8	6	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle (WisDOT Pay Item 657.0255)	@	\$	325.00	Each	\$1,950.00
60	2	2	Poles Type 2 (WisDOT Pay Item 657.0305) - W Sunset & Grand	@	\$	1,310.00	Each	\$2,620.00
61	1	1	Poles Type 2 (WisDOT Pay Item 657.0305) - W Sunset & West	@	\$	1,310.00	Each	\$1,310.00
62	4	4	Traffic Signal Standards Aluminum 15-Ft (WisDOT Pay Item 657.0425)	@	\$	456.00	Each	\$1,824.00
63	4	4	Traffic Signal Standards Aluminum 10-Ft (WisDOT Pay Item 657.0430) - W Sunset & Grand	@	\$	420.00	Each	\$1,680.00
64	1	1	Traffic Signal Standards Aluminum 10-Ft (WisDOT Pay Item 657.0430) - W Sunset & West	@	\$	420.00	Each	\$420.00
65	2	2	Trombone Arms 20-Ft (WisDOT Pay Item 657.0590) - W Sunset & Grand	@	\$	1,050.00	Each	\$2,100.00
66	1	1	Trombone Arms 20-Ft (WisDOT Pay Item 657.0590) - W Sunset & West	@	\$	1,050.00	Each	\$1,050.00
67	10	10	Traffic Signal Face 3-12 Inch Vertical (WisDOT Pay Item 658.0110)	@	\$	325.00	Each	\$3,250.00
68	2	2	Traffic Signal Face 4-12 Inch Vertical (WisDOT Pay Item 658.0115)	@	\$	380.00	Each	\$760.00
69	10	10	Backplates Signal Face 3 Section 12-Inch (WisDOT Pay Item 658.0215)	@	\$	62.00	Each	\$620.00
70	2	2	Backplates Signal Face 4 Section 12-Inch (WisDOT Pay Item 658.0220)	@	\$	66.00	Each	\$132.00
71	4	4	LED Modules 12-Inch Red Ball (WisDOT Pay Item 658.0600)	@	\$	64.00	Each	\$256.00
72	4	4	LED Modules 12-Inch Yellow Ball (WisDOT Pay Item 658.0605)	@	\$	65.00	Each	\$260.00
73	4	4	LED Modules 12-Inch Green Ball (WisDOT Pay Item 658.0610)	@	\$	65.00	Each	\$260.00
74	8	4	LED Modules 12-Inch Red Arrow (WisDOT Pay Item 658.0615)	@	\$	65.00	Each	\$260.00
75	16	16	LED Modules 12-Inch Yellow Arrow (WisDOT Pay Item 658.0620)	@	\$	65.00	Each	\$1,040.00
76	2	2	LED Modules 12-Inch Green Arrow (WisDOT Pay Item 658.0625)	@	\$	65.00	Each	\$130.00

77	1	1	Signal Mounting Hardware W Sunset & S Grand (WisDOT Pav Item 658.5069.01)	@	\$ 2,360.00	Lump Sum	\$2,360.00	
78	2	2	Poles Type 9 (SPV.0060.01) - W Sunset & Grand	@	\$ 3,695.00	Each	\$7,390.00	
79	1	1	Poles Type 9 (SPV.0060.02) - W Sunset & West	@	\$ 3,695.00	Each	\$3,695.00	
80	2	2	Monotube Arms 30-Ft (SPV.0060.03) - W Sunset & Grand	@	\$ 3,285.00	Each	\$6,570.00	
81	1	1	Traffic Signal Controller and Cabinet 8-Phase Fully Actuated (SPV.0060.04) - W Sunset & Grand	@	\$ 22,010.00	Each	\$22,010.00	
82	1	1	Video Vehicle Detection System W Sunset & S Grand	@	\$ 22,985.00	Each	\$22,985.00	
83	1	1	Emergency Vehicle Preemption System W Sunset & S Grand	@	\$ 8,930.00	Each	\$8,930.00	
84	1	1	Audible Pedestrian Push Button System for W Sunset & S Grand	@	\$ 10,470.00	Each	\$10,470.00	
85	1	1	Remove Traffic Signals W Sunset & Grand	@	\$ 2,565.00	Lump Sum	\$2,565.00	
86	9	9	Remove, Store and Reinstall Existing Lighting Luminaires	@	\$ 72.00	Each	\$648.00	
87	8	8	Remove, Store and Reinstall Existing 16-Inch Countdown Pedestrian Heads	@	\$ 230.00	Each	\$1,840.00	
88	8	8	Remove, Store and Reinstall Existing 3 Face Vertical Signal Heads	@	\$ 230.00	Each	\$1,840.00	
89	5	3	Remove, Relocate and Reinstall Existing Type 4 Pole with Luminaire Arms	@	\$ 975.00	Each	\$2,925.00	
90	1	1	Remove Existing Push Button and Pedestrian Head from Existing Type 9 Pole and Reinstall on New 10-FT Standard Pole - Sunset & West	@	\$ 130.00	Lump Sum	\$130.00	
91	1	1	Remove Existing 30-FT Monotube Arm with Attached Sign, Signal Heads and EVP Head, Store and Reinstall on New Type 9 Post - W Sunset & West	@	\$ 2,050.00	Lump Sum	\$2,050.00	
92	1	1	Remove and Dispose of Existing Type 9 Monotube Pole - W Sunset & West	@	\$ 1,230.00	Lump Sum	\$1,230.00	
93	1	1	Manufacture a Special Plate to be Mounted on Existing Type 10 Concrete Base to Mount a Pedestal Base - W Sunset & West	@	\$ 770.00	Lump Sum	\$770.00	
94	1	1	Install City Furnished 3 Face Vertical Head on New 20-FT Trombone Arm - W Sunset & West	@	\$ 130.00	Lump Sum	\$130.00	
95	1	1	Install City Furnished Pedestrian Head to be Mounted on Existing Pole - W Sunset & West	@	\$ 130.00	Lump Sum	\$130.00	
Alt Bid	16000	23,304	Sq. Ft of Concrete Pavement Removal and Replacement (Sunset Sta. 26+00 to 35+00)	@	\$ 5.65	Lump Sum	\$131,667.60	
CCO 1	1	1	Additional Asphalt Resurfacing Work	@	\$ 31,561.80	Lump Sum	\$31,561.80	
Extra 1		1	Manhole Structure Installation at Sunset & Grand	@	\$ 4,400.00	Each	\$4,400.00	
Extra 2		1	Monotube Arms 30-Ft (SPV.0060.03) - W Sunset & S West Ave	@	\$ 3,285.00	Each	\$3,285.00	
LD1		43	Assessment of 43 Days of Liquidated Damages at \$500 per day deducted from payment.	@	\$ (500.00)	Day	-\$21,500.00	
Total								\$613,497.80
Less Retainage								\$0.00
Total								\$613,497.80
Less Previously Paid								\$591,057.87
Total Amount Due								\$22,439.93

This estimate has been checked by the Engineering Department and we recommend that the above amount of \$22,439.93 be allowed.

Respectfully Submitted,

  
 Fred V. Abadi, PhD., P.E.  
 Director of Public Works