

Department of Public Works

City Hall
730 Washington Ave.
Racine, WI 53403
262.636.9121 - Public Works
262.636.9191 - Engineering



Mark H. Yehlen, P.E.
Commissioner of Public Works

Thomas M. Eeg, P.E.
Asst. Comm. of Public Works/Operations

John C. Rooney, P.E.
Asst. Comm. of Public Works/City Engineer

June 28, 2012

Ald. Sandy Weidner
Chairwoman, Public Works
and Services Committee
Racine, Wisconsin

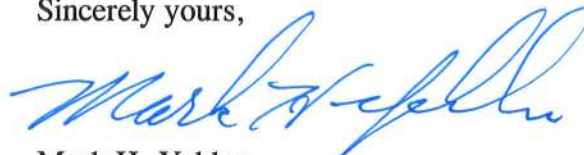
Dear Ald. Weidner:

The Commissioner of Public Works, on Thursday, June 28, 2012, 2:00 p.m. (local time), received bids for Contract 23-12 (K2-025), Signal Interconnect and System Timing, and submits same for your approval. The following bids were received:

<u>Contractor</u>	<u>Total</u>
Pro Electric, Inc.	\$1,342,041.59
Outdoor Lighting Construction Co., Inc.	\$1,528,416.71
Faith Technologies, Inc.	\$1,823,954.38

This public works project was estimated at \$1,322,000.00.

Sincerely yours,



Mark H. Yehlen
Commissioner of Public Works/City Engineer

MHY:das

cc: Mayor John Dickert
Tom Friedel
John Rooney

SIGNAL INTERCONNECT AND SYSTEM TIMING

CONTRACT NUMBER 23-12 (K2-025)

Receive bids: Thursday, June 28, 2012, Room 301, 2:00 p.m. Local Time

Office of the Commisioner of Public Works

Racine, WI

The undersigned hereby proposes to furnish all labor, tools, equipment and appliances and all materials except as definitely specified to be furnished by others, and construct, complete, ready for use, all in accordance with advertisement, plans, specs and contract, all as attached hereto and all of which the undersigned has examined, the following work for the compensation indicated:

NOTE: Most items are "repeat bid items." The project is partially funded through grant monies. To help with the grant reimbursement processes for the City, the items have been separated into into categories; per project number and funding sources. This has no effect on the payment for the Contractor. The unit costs should be the same for all categories and the Contractor should take the total quantity into account when assigning a price.

ITEM#	STATE #	QUANTITY	DESCRIPTION	Pro Electric, Inc. Franksville, WI 5% Bid Bond		Outdoor Lighting Const. Co. Milwaukee, WI 5% Bid Bond		Faith Technologies, Inc. Pewaukee, WI 5% Bid Bond	
				UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
Congestion Mitigation and Air-Quality: City of Racine - Signal Interconnect and System Timing - 1693-49-71 (CMAQ FUNDED PORTION)									
1	204.0155	114 SY	Removing Concrete Sidewalk	\$33.91	\$3,865.74	\$30.00	\$3,420.00	\$53.17	\$6,061.38
2	602.0405	1026 SF	Concrete Sidewalk, 4-inch	\$11.30	\$11,593.80	\$12.50	\$12,825.00	\$12.61	\$12,937.86
3	602.0415	103 SF	Concrete Sidewalk, 6-inch	\$16.96	\$1,746.88	\$14.00	\$1,442.00	\$15.23	\$1,568.69
4	602.0505	34 SF	Curb Ramp Detectable Warning Field Yellow	\$56.52	\$1,921.68	\$50.00	\$1,700.00	\$82.23	\$2,795.82
5	652.0405	1008 LF	Conduit Reinforced Thermosetting Resin, 2-inch	\$42.12	\$42,456.96	\$44.98	\$45,339.84	\$28.39	\$28,617.12
6	671.0212	9167 LF	Conduit HDPE Directional Bury 1-Duct, 2-inch	\$7.19	\$65,910.73	\$8.00	\$73,336.00	\$7.56	\$69,302.52
7	671.0212	8651 LF	Conduit HDPE Directional Bore 1-Duct, 2-inch	\$11.98	\$103,638.98	\$13.70	\$118,518.70	\$18.90	\$163,503.90
8	653.0140	26 EA	Pull Boxes, Steel 24x42-Inch, Grounded	\$690.15	\$17,943.90	\$826.00	\$21,476.00	\$990.24	\$25,746.24
9	653.0905	2 EA	Removing Pull Boxes	\$83.47	\$166.94	\$78.20	\$156.40	\$194.76	\$389.52
10	673.0105	14 EA	Communication Vault, Type 1	\$1,600.74	\$22,410.36	\$2,313.50	\$32,389.00	\$4,402.07	\$61,628.98
11	900.1101	2357 SY	Top Soil Seeding and Fertilizing	\$6.90	\$16,263.30	\$6.10	\$14,377.70	\$7.57	\$17,842.49
12	900.1300	418 LF	Full Depth Sawcut	\$6.78	\$2,834.04	\$1.75	\$731.50	\$13.61	\$5,688.98
13	900.4013	0.5 LS	Traffic System Management System, Upgrade	\$51,754.16	\$25,877.08	\$68,923.80	\$34,461.90	\$57,610.90	\$28,805.45
14	900.4021	36699 LF	Fiber Optic Tracer Cable, #12 AWG	\$0.52	\$19,083.48	\$0.30	\$11,009.70	\$0.45	\$16,514.55
15	900.4022	4044 LF	Dielectric Fiber Optic Cable, 6ct-5M, Furnish/Install	\$1.19	\$4,812.36	\$1.99	\$8,047.56	\$2.64	\$10,676.16
16	900.4023	2917 LF	Dielectric Fiber Optic Cable, 6ct-MM , Furnish/Install	\$1.63	\$4,754.71	\$2.45	\$7,146.65	\$4.10	\$11,959.70
17	900.4026	711 LF	Dielectric Fiber Optic Cable, 48ct-5M, Furnish/Install	\$1.49	\$1,059.39	\$2.41	\$1,713.51	\$2.27	\$1,613.97
18	900.4027	4780 LF	Dielectric Fiber Optic Cable, 96ct-SM, Furnish/Install	\$1.98	\$9,464.40	\$2.90	\$13,862.00	\$2.74	\$13,097.20
19	900.4031	21 EA	Fiber Spice Main Line 96ct SM	\$2,433.69	\$51,107.49	\$2,155.80	\$45,271.80	\$3,414.28	\$71,699.88
20	900.4031.1	1 EA	Fiber Spice Main Line 48ct SM	\$1,912.75	\$1,912.75	\$1,913.80	\$1,913.80	\$2,928.54	\$2,928.54
21	900.4031.2	6 EA	Fiber Spice Main Line 48ct SM/MM	\$1,912.75	\$11,476.50	\$1,930.80	\$11,584.80	\$3,442.49	\$20,654.94

22	900.4031.5	13 EA	Fiber Spice, Drop 6ct SM	\$1,431.45	\$18,608.85	\$1,717.80	\$22,331.40	\$2,267.40	\$29,476.20
23	900.4031.6	9 EA	Fiber Spice, Drop 6ct MM	\$1,431.45	\$12,883.05	\$1,717.80	\$15,460.20	\$2,632.89	\$23,696.01
24	900.4032	8 EA	Pre-terminated Patch Panel with 6 Ports	\$717.95	\$5,743.60	\$649.60	\$5,196.80	\$687.63	\$5,501.04
25	900.4033	6 EA	Termination Panel with 6/12 Ports Single Mode	\$905.98	\$5,435.88	\$828.00	\$4,968.00	\$1,091.01	\$6,546.06
26	900.4041	12 EA	IP Ethernet Switch with Single Mode Fiber Ports	\$1,425.79	\$17,109.48	\$1,408.00	\$16,896.00	\$1,587.30	\$19,047.60
27	900.4042	1 EA	IP Ethernet Switch with Multi Mode Fiber Ports	\$1,356.71	\$1,356.71	\$1,362.00	\$1,362.00	\$1,516.75	\$1,516.75
28	900.4043	13 EA	IP Terminal Server, Single Port	\$673.82	\$8,759.66	\$614.00	\$7,982.00	\$750.61	\$9,757.93
29	900.4044	5 EA	Internal Data Modum	\$543.59	\$2,717.95	\$468.00	\$2,340.00	\$606.74	\$3,033.70
30	900.4051	6 EA	IP Video Encoder, Single Port	\$2,910.46	\$17,462.76	\$2,811.00	\$16,866.00	\$3,240.43	\$19,442.58
31	900.4056	5 EA	Microwave Based Traffic Sensor	\$5,678.47	\$28,392.35	\$6,046.60	\$30,233.00	\$6,284.63	\$31,423.15
32	900.4061	5 EA	IP Wireless Radio, Furnish	\$1,693.05	\$8,465.25	\$1,727.00	\$8,635.00	\$1,886.34	\$9,431.70
33	900.4062	5 EA	IP Wireless Radio, Install	\$878.70	\$4,393.50	\$982.80	\$4,914.00	\$756.08	\$3,780.40
34	900.4607	13 EA	Install Conduit Into Existing Pull Box	\$400.32	\$5,204.16	\$160.60	\$2,087.80	\$493.01	\$6,409.13
SUBTOTAL - 1693-49-71 (CMAQ FUNDED PORTION)					\$556,834.67		\$599,996.06		\$743,096.14

Congestion Mitigation and Air-Quality: City of Racine - Signal Interconnect and System Timing - 1693-49-72 (CMAQ FUNDED PORTION)

35	204.0155	162 SY	Removing Concrete Sidewalk	\$33.91	\$5,493.42	\$30.00	\$4,860.00	\$53.17	\$8,613.54
36	602.0405	1458 SF	Concrete Sidewalk, 4-inch	\$11.30	\$16,475.40	\$12.50	\$18,225.00	\$12.61	\$18,385.38
37	602.0415	146 SF	Concrete Sidewalk, 6-inch	\$16.96	\$2,476.16	\$14.00	\$2,044.00	\$15.23	\$2,223.58
38	602.0505	48 SF	Curb Ramp Detectable Warning Field, Yellow	\$56.52	\$2,712.96	\$50.00	\$2,400.00	\$82.23	\$3,947.04
39	652.0405	390 LF	Conduit Reinforced Thermosetting Resin, 2-inch	\$42.12	\$16,426.80	\$44.98	\$17,542.20	\$28.39	\$11,072.10
40	671.0212	5566 LF	Conduit HDPE Direct Bury 1-Duct, 2-inch	\$7.19	\$40,019.54	\$8.00	\$44,528.00	\$7.56	\$42,078.96
41	671.0212	14030 LF	Conduit HDPE Directional Bore 1-Duct, 2-inch	\$11.98	\$168,079.40	\$13.70	\$192,211.00	\$18.90	\$265,167.00
42	653.0140	28 EA	Pull Boxes, Steel 24x48-Inch, Grounded	\$690.15	\$19,324.20	\$826.00	\$23,128.00	\$990.24	\$27,726.72
43	653.0905	3 EA	Removing Pull Boxes	\$83.47	\$250.41	\$78.20	\$234.60	\$194.76	\$584.28
44	673.0105	15 EA	Communication Vault, Type 1	\$1,600.74	\$24,011.10	\$2,313.50	\$34,702.50	\$4,402.07	\$66,031.05
45	900.1101	1477 SY	Topsoil Seeding and Fertilizing	\$6.90	\$10,191.30	\$6.10	\$9,009.70	\$7.57	\$11,180.89
46	900.1300	594 LF	Full Depth Sawcut	\$6.78	\$4,027.32	\$1.75	\$1,039.50	\$13.61	\$8,084.34
47	900.4011	1.0 LS	City Hall Hub	\$26,775.25	\$26,775.25	\$43,074.40	\$43,074.40	\$28,003.48	\$28,003.48
48	900.4012	1.0 LS	Traffic Signal Optimization Software and Training	\$33,538.56	\$33,538.56	\$50,900.00	\$50,900.00	\$37,576.96	\$37,576.96
49	900.4013	0.5 LS	Traffic System Management System, Upgrade	\$51,754.16	\$25,877.08	\$68,923.80	\$34,461.90	\$57,610.90	\$28,805.45
50	900.4021	25038 LF	Fiber Optic Tracer Cable, #12 AWG	\$0.52	\$13,019.76	\$0.30	\$7,511.40	\$0.45	\$11,267.10
51	900.4022	1667 LF	Dielectric Fiber Optic Cable, 6ct-SM, Furnish/Install	\$1.19	\$1,983.73	\$1.99	\$3,317.33	\$2.64	\$4,400.88
52	900.4026	6294 LF	Dielectric Fiber Optic Cable, 48ct-SM, Furnish/Install	\$1.49	\$9,378.06	\$2.41	\$15,168.54	\$2.27	\$14,287.38
53	900.4031.1	15 EA	Fiber Splice, Main Line, 48ct SM	\$1,912.75	\$28,691.25	\$1,913.80	\$28,707.00	\$2,928.54	\$43,928.10
54	900.4031.5	14 EA	Fiber Splice, Drop, 6ct SM	\$1,431.45	\$20,040.30	\$1,717.80	\$24,049.20	\$2,267.40	\$31,743.60
55	900.4032	13 EA	Pre-Terminated Patch Panel with 6-ports	\$717.95	\$9,333.35	\$649.60	\$8,444.80	\$687.63	\$8,939.19
56	900.4033	2 EA	Termination Panel with 6/12 Ports Single Mode	\$905.98	\$1,811.96	\$828.00	\$1,656.00	\$1,091.01	\$2,182.02
57	900.4041	18 EA	IP Ethernet Switch with Single Mode Fiber Ports	\$1,425.79	\$25,664.22	\$1,408.00	\$25,344.00	\$1,587.30	\$28,571.40
58	900.4042	3 EA	IP Ethernet Switch with Multi Mode Fiber Ports	\$1,356.71	\$4,070.13	\$1,362.00	\$4,086.00	\$1,516.75	\$4,550.25
59	900.4043	19 EA	IP Terminal Server, Single Port	\$673.82	\$12,802.58	\$614.00	\$11,666.00	\$750.61	\$14,261.59

60	900.4044	10 EA	Internal Data Modum	\$543.59	\$5,435.90	\$468.00	\$4,680.00	\$606.74	\$6,067.40
61	900.4051	7 EA	IP Video Encoder, Single Port	\$2,910.46	\$20,373.22	\$2,811.00	\$19,677.00	\$3,240.43	\$22,683.01
62	900.4653	2 EA	Video Detection System, 2-cameras	\$12,882.48	\$25,764.96	\$13,275.40	\$26,550.80	\$15,550.00	\$31,100.00
63	900.4056	2 EA	Microwave Based Traffic Sensor	\$5,678.47	\$11,356.94	\$6,046.60	\$12,093.20	\$6,284.63	\$12,569.26
64	900.4061	6 EA	IP Wireless Radio, Furnish	\$1,693.05	\$10,158.30	\$1,727.00	\$10,362.00	\$1,886.34	\$11,318.04
65	900.4052	6 EA	IP Wireless Radio, Install	\$919.80	\$5,518.80	\$369.00	\$2,214.00	\$756.08	\$4,536.48
66	900.4607	5 EA	Install Conduit into Existing Pull Box	\$400.32	\$2,001.60	\$160.60	\$803.00	\$493.01	\$2,465.05
SUBTOTAL - 1693-49-72 (CMAQ FUNDED PORTION)					\$603,083.96		\$684,691.07		\$814,351.52

Congestion Mitigation and Air-Quality: City of Racine - Signal Interconnect and System Timing - 1693-49-71 (CITY FUNDED PORTION)

67	204.0155	18 SY	Removing Concrete Sidewalk	\$33.91	\$610.38	\$30.00	\$540.00	\$53.17	\$957.06
68	602.0405	162 SF	Concrete Sidewalk, 4-inch	\$11.30	\$1,830.60	\$12.50	\$2,025.00	\$12.61	\$2,042.82
69	602.0415	16 SF	Concrete Sidewalk, 6-inch	\$16.96	\$271.36	\$14.00	\$224.00	\$15.23	\$243.68
70	602.0505	5 SF	Curb Ramp Detectable Warning Field, Yellow	\$56.52	\$282.60	\$50.00	\$250.00	\$82.23	\$411.15
71	671.0212	1484 LF	Conduit HDPE Direct Bury 1-Duct, 2-inch	\$7.19	\$10,669.96	\$8.00	\$11,872.00	\$7.56	\$11,219.04
72	671.0212	1261 LF	Conduit HDPE Directional Bore 1-Duct, 2-Inch	\$11.98	\$15,106.78	\$13.70	\$17,275.70	\$18.90	\$23,832.90
73	653.0140	7 EA	Pull Boxes, Steel 24X48-Inch, 2-Inch	\$690.15	\$4,831.05	\$826.00	\$5,782.00	\$990.24	\$6,931.68
74	673.0105	2 EA	Communication Vault, Type 1	\$1,600.74	\$3,201.48	\$2,313.50	\$4,627.00	\$4,402.07	\$8,804.14
75	900.1101	426 SY	Topsoil Seeding and Fertilizing	\$6.90	\$2,939.40	\$6.10	\$2,598.60	\$7.57	\$3,224.82
76	900.1300	66 LF	Full Depth Sawcut	\$6.78	\$447.48	\$1.75	\$115.50	\$13.61	\$898.26
77	900.4021	9175 LF	Fiber Optic Tracer Cable, #12 AWG	\$0.52	\$4,771.00	\$0.30	\$2,752.50	\$0.45	\$4,128.75
78	900.4024	5336 LF	Dielectric Fiber Optic Cable, 12ct-SM, Furnish/Install	\$1.18	\$6,296.48	\$1.94	\$10,351.84	\$2.36	\$12,592.96
79	900.4026	2132 LF	Dielectric Fiber Optic Cable, 48ct-SM, Furnish/Install	\$1.49	\$3,176.68	\$2.41	\$5,138.12	\$2.27	\$4,839.64
80	900.4027	33457 LF	Dielectric Fiber Optic Cable, 96ct-SM, Furnish/Install	\$1.98	\$66,244.86	\$2.90	\$97,025.30	\$2.74	\$91,672.18
81	900.4031	2 EA	Fiber Splice, Main Line, 96ct SM	\$2,433.69	\$4,867.38	\$2,155.80	\$4,311.60	\$3,414.28	\$6,828.56
82	900.4031.4	7 EA	Fiber Splice, Drop, 12ct SM	\$1,494.87	\$10,464.09	\$1,755.80	\$12,290.60	\$2,703.45	\$18,924.15
83	900.4607	1 EA	Install Conduit into Existing Pull Box	\$400.32	\$400.32	\$160.60	\$160.60	\$493.01	\$493.01
SUBTOTAL - 1963-49-71 (CITY FUNDED PORTION)					\$136,411.90		\$177,340.36		\$198,044.80

Congestion Mitigation and Air-Quality: City of Racine - Signal Interconnect and System Timing - 1693-49-72 (CITY FUNDED PORTION)

84	671.0212	590 LF	Conduit HDPE Direct Bury 1-Duct, 2-inch	\$7.19	\$4,242.10	\$8.00	\$4,720.00	\$7.56	\$4,460.40
85	671.0212	153 LF	Conduit HDPE Directional Bore 1-Duct, 2-inch	\$11.98	\$1,832.94	\$13.70	\$2,096.10	\$18.90	\$2,891.70
86	653.0140	4 EA	Pull Boxes, Steel 24X48-Inch, Ground	\$690.15	\$2,760.60	\$826.00	\$3,304.00	\$990.24	\$3,960.96
87	900.1101	195 SY	Topsoil Seeding and Fertilizing	\$6.90	\$1,345.50	\$6.10	\$1,189.50	\$7.57	\$1,476.15
88	900.4021	2387 LF	Fiber Optic Tracer Cable, #12 AWG	\$0.52	\$1,241.24	\$0.36	\$859.32	\$0.45	\$1,074.15
89	900.4024	2682 LF	Dielectric Fiber Optic Cable, 12ct-SM, Furnish/Install	\$1.18	\$3,164.76	\$1.94	\$5,203.08	\$2.36	\$6,329.52
90	900.4026	18882 LF	Dielectric Fiber Optic Cable, 48ct-SM, Furnish/Install	\$1.49	\$28,134.18	\$2.41	\$45,505.62	\$2.27	\$42,862.14
91	900.4031.4	2 EA	Fiber Splice, Drop 12ct SM	\$1,494.87	\$2,989.74	\$1,755.80	\$3,511.60	\$2,703.45	\$5,406.90
SUBTOTAL - 1693-49-72 (CITY FUNDED PORTION)					\$45,711.06		\$66,389.22		\$68,461.92

TOTAL AMOUNT OF THIS PROPOSAL: \$1,342,041.59 \$1,528,416.71 \$1,823,954.38