

September 8, 2016

TO THE BOARD OF PUBLIC WORKS
CITY OF WAUKESHA, WISCONSIN

Periodical estimate for Partial Payment No. 11 to State Contractors, Inc., 16575 W. Dakota St., New Berlin, WI 53151 for Summit Avenue & Delafield Street - **Phase 2** Utility and Street Improvements - **Concrete**.

Contract No. 3930

1/5/2016

\$ 5,215,619.03

No	Quantity	Description		Cost	Per Unit	Amount
1	341	Lin. Ft. of Furnish and Install 16-Inch Water Main and Fittings	@	\$165.00	Lin. Ft.	\$56,265.00
2	3,490	Lin. Ft. of Furnish and Install 12-Inch Water Main and Fittings	@	\$86.00	Lin. Ft.	\$300,140.00
3	351	Lin. Ft. of Furnish and Install 8-Inch Water Main and Fittings	@	\$149.00	Lin. Ft.	\$52,299.00
4	15	Lin. Ft. of Furnish and Install 24-Inch Steel Casing	@	\$1,150.00	Lin. Ft.	\$17,250.00
5	1	Furnish and Install 16-Inch Butterfly Valve	@	\$2,760.00	Each	\$2,760.00
6	9	Furnish and Install 12-Inch Gate Valve	@	\$2,715.00	Each	\$24,435.00
7	6	Furnish and Install 8-Inch Gate Valve	@	\$1,580.00	Each	\$9,480.00
8	6	Furnish and Install Hydrant Assembly	@	\$5,700.00	Each	\$34,200.00
9	9	Connect New Service Lateral (SL1)	@	\$2,550.00	Each	\$22,950.00
10	8	Connect New Service Lateral (SL2)	@	\$2,750.00	Each	\$22,000.00
11	10	Connect New Service Lateral (SL3)	@	\$2,575.00	Each	\$25,750.00
12	23	Connect 1" Copper Service Lateral (SL4)	@	\$825.00	Each	\$18,975.00
13	22	Connect 1" Copper Service Lateral (SL5)	@	\$1,375.00	Each	\$30,250.00
14	5	Connect 1-1/4" Copper Service Lateral (SL6)	@	\$1,040.00	Each	\$5,200.00
15	2	Connect 6" Service Lateral (SL7)	@	\$8,400.00	Each	\$16,800.00
16	240	Insulation 2" Thick Polystyrene Board	@	\$1.00	Sq. Ft.	\$240.00
17	33	Furnish and Install Curb Boxes & Rods Where Needed	@	\$550.00	Each	\$18,150.00
18	25	Furnish and Install Curb Stop Where Needed	@	\$720.00	Each	\$18,000.00
19	4	Abandon Existing Hydrant	@	\$620.00	Each	\$2,480.00
20	1	Abandon Valve Boxes & Manholes	@	\$7,300.00	Lump Sum	\$7,300.00
21	0	Valve Box Adjustments	@	\$150.00	Each	\$0.00
22	1,556.4	Lin. Ft. of 15-Inch PVC Sanitary Sewer	@	\$156.00	Lin. Ft.	\$242,798.40
23	40	Lin. Ft. of 10-Inch PVC Sanitary Sewer	@	\$342.00	Lin. Ft.	\$13,680.00
24	87.8	Lin. Ft. of 8-Inch PVC Sanitary Sewer	@	\$210.00	Lin. Ft.	\$18,438.00
25	436	Lin. Ft. of 24-Inch CIPP Sewer Lining	@	\$105.00	Lin. Ft.	\$45,780.00
26	1,002	Lin. Ft. of 15-Inch CIPP Sewer Lining	@	\$52.00	Lin. Ft.	\$52,104.00
27	623	Lin. Ft. of 12-Inch CIPP Sewer Lining	@	\$32.00	Lin. Ft.	\$19,936.00
28	3,822	Lin. Ft. of 8-Inch CIPP Sewer Lining	@	\$24.50	Lin. Ft.	\$93,639.00
29	74.7	Vert. Ft. of 8 - 48-Inch Diameter Sanitary Sewer Manhole	@	\$214.00	Vert. Ft.	\$15,985.80
30	21.4	Vert. Ft. of 1 - 48-Inch Diameter Sanitary Sewer Manhole with Outside Drop	@	\$395.00	Vert. Ft.	\$8,453.00
31	11.3	Vert. Ft. of 1 - 60-Inch Diameter Sanitary Sewer Manhole	@	\$532.00	Vert. Ft.	\$6,011.60
32	0	Vert. Ft. of Rehabilitate Sanitary Manhole with Cementitious Liner	@	\$113.00	Vert. Ft.	\$0.00
33	1	Bench/Invert/Trough Minor Work	@	\$1,060.00	Each	\$1,060.00
34	7.2	Vert. Ft. of Chimney Replacement, Sanitary	@	\$612.00	Vert. Ft.	\$4,406.40
35	1.0	Vert. Ft. of Chimney Replacement, Storm	@	\$612.00	Vert. Ft.	\$612.00
36	0	Chimney Seals	@	\$379.00	Each	\$0.00
37	650.6	Lin. Ft. of 6-Inch Sanitary Lateral Extension	@	\$130.00	Lin. Ft.	\$84,578.00
38	52	Sanitary Lateral Cleanout	@	\$1,285.00	Each	\$66,820.00
39	47	Sanitary Lateral Cleaning and Pre-lining Video Inspection	@	\$260.00	Each	\$12,220.00
40	0	Sanitary Lateral Spot Repair (Up to 5 Feet of Repair at Each Spot)	@	\$2,900.00	Each	\$0.00
41	47	CIPP Lateral Lining Within 10 Feet of Sewer Main	@	\$2,575.00	Each	\$121,025.00
42	817.7	Lin. Ft. of CIPP Lateral Lining Additional Length Over 10 Feet from Sewer Main	@	\$52.50	Lin. Ft.	\$42,929.25
43	0	Lateral Connection Test and Seal	@	\$340.00	Each	\$0.00
44	0	Lin. Ft. of Pre-Paving Main Line Sewer Televising, Sanitary	@	\$1.75	Lin. Ft.	\$0.00
45	0	Lin. Ft. of Pre-Paving Main Line Sewer Televising, Storm	@	\$2.75	Lin. Ft.	\$0.00
46	0	Pre-Paving Lateral Sewer Televising	@	\$240.00	Each	\$0.00
47	1,249.1	Lin. Ft. of 12-Inch Storm Sewer (RCSP)	@	\$119.00	Lin. Ft.	\$148,642.90
48	68.8	Lin. Ft. of 12-Inch Storm Sewer (PVC)	@	\$79.00	Lin. Ft.	\$5,435.20


49	62	Lin. Ft. of 54-Inch Storm Sewer (RCSP)	@	\$362.00	Lin. Ft.	\$22,444.00
50	370.2	Vert. Ft. of 65 Standard Storm Inlets	@	\$295.00	Vert. Ft.	\$109,209.00
51	0	Vert. Ft. of Rehabilitate Storm Manhole with Cementitious Liner	@	\$113.00	Vert. Ft.	\$0.00
52	31.1	Vert. Ft. of 5 Standard Storm Manholes	@	\$217.00	Vert. Ft.	\$6,748.70
53	0	Vert. Ft. of 1 - 60-Inch Diameter Storm Manhole	@	\$727.00	Vert. Ft.	\$0.00
54	7.4	Vert. Ft. of 1 - 108-Inch Diameter Storm Manhole	@	\$1,250.00	Vert. Ft.	\$9,250.00
55	1	Junction Chamber	@	\$16,750.00	Lump Sum	\$16,750.00
56	0	Cu. Yds. of Slurry Backfill	@	\$60.00	Cu. Yd.	\$0.00
57	1,150.1	Lin. Ft. of Sawcutting at Pavement Limits	@	\$3.00	Lin. Ft.	\$3,450.30
58	0.33	Traffic Control	@	\$80,228.00	Lump Sum	\$26,475.24
59	0.33	Construction Staging and Temporary Traffic Signals for Delafield Street, Madison Street and North Street Intersection	@	\$20,000.00	Lump Sum	\$6,600.00
60	0.33	Summit Avenue and Delafield Street Detour	@	\$10,845.00	Lump Sum	\$3,578.85
61	13,817.1	Lin. Ft. of Concrete Curb and Gutter Removal	@	\$3.00	Lin. Ft.	\$41,451.30
62	32,278.4	Sq. Yds. of Pavement Removal	@	\$4.00	Sq. Yd.	\$129,113.60
63	20,703.3	Tons of 1 -Inch Dense Aggregate	@	\$14.00	Ton	\$289,846.20
64	0	Tons of 1 -Inch Crushed Stone Backfill (Includes Undercut)	@	\$11.00	Ton	\$0.00
65	126.65	Tons of 3-Inch Crushed Stone Backfill (Includes Undercut)	@	\$11.00	Ton	\$1,393.15
66	0	Sq. Yds. of Geotextile Fabric, Type SAS	@	\$2.00	Sq. Yd.	\$0.00
67	0	Lin. Ft. of Shaping and Grading Roadway Base	@	\$10.00	Lin. Ft.	\$0.00
68	14,229.1	Lin. Ft. of 30-Inch Combination Concrete Curb and Gutter	@	\$14.00	Lin. Ft.	\$199,207.40
69	0	Lin. Ft. of Concrete Barrier Curb	@	\$50.00	Lin. Ft.	\$0.00
70	0	Lin. Ft. of Concrete Curb and Gutter Removal and Replacement	@	\$70.00	Lin. Ft.	\$0.00
71	0	Sq. Ft. of Concrete Pavement Removal and Replacement	@	\$6.50	Sq. Ft.	\$0.00
72	28,443.4	Sq. Ft. of 9-Inch Concrete Pavement, Doweled	@	\$35.00	Sq. Ft.	\$995,519.00
73	0	Sq. Ft. of 4-Inch HMA Pavement	@	\$8.50	Sq. Ft.	\$0.00
74	0	Sq. Ft. of 5-Inch HMA Transition Pavement	@	\$8.75	Sq. Ft.	\$0.00
75	0	Sq. Ft. of 7-Inch HMA Transition Pavement	@	\$10.00	Sq. Ft.	\$0.00
76	12,216.5	Sq. Ft. of Walk and Drive Approach Removal	@	\$2.00	Sq. Ft.	\$24,433.00
77	23,098.4	Sq. Ft. of New 4-Inch Concrete Walk and Curb Ramps	@	\$4.40	Sq. Ft.	\$101,632.96
78	0	Lin. Ft. of Concrete Curb - Pedestrian	@	\$50.00	Lin. Ft.	\$0.00
79	12,507.3	Sq. Ft. of New 6-Inch Concrete Walk and Drive Approach	@	\$4.70	Sq. Ft.	\$58,784.31
80	8,194	Sq. Ft. of New 7-Inch Concrete Walk and Drive Approach	@	\$4.90	Sq. Ft.	\$40,150.60
81	48	Sq. Ft. of Concrete Slope Nose	@	\$10.00	Sq. Ft.	\$480.00
82	152	Sq. Ft. of Detectable Warning Field	@	\$45.00	Sq. Ft.	\$6,840.00
83	0	Extra Bags of Cement for High-Early-Strength Concrete	@	\$10.00	Each	\$0.00
84	0	Lin. Ft. of Grooved in Place Pavement Markings, Yellow, Preformed Plastic, 4-Inch	@	\$3.70	Lin. Ft.	\$0.00
85	0	Lin. Ft. of Pavement Markings, White, 4-Inch, Epoxy	@	\$1.05	Lin. Ft.	\$0.00
86	0	Lin. Ft. of Grooved in Place Pavement Markings, White 10-Ft Dash, 30-Ft Skip, Preformed Plastic, 4-Inch	@	\$3.70	Lin. Ft.	\$0.00
87	0	Lin. Ft. of Grooved in Place Pavement Markings, White, Preformed Plastic, 8-Inch	@	\$6.00	Lin. Ft.	\$0.00
88	0	Lin. Ft. of Grooved in Place Pavement Markings, White 3-Ft Dash, 9-Ft Skip, Preformed Plastic, 8-Inch	@	\$6.00	Lin. Ft.	\$0.00
89	0	Lin. Ft. of Grooved in Place Pavement Markings, White, Preformed Thermoplastic, 6-Inch	@	\$16.50	Lin. Ft.	\$0.00
90	0	Lin. Ft. of Grooved in Place Pavement Markings, White, Preformed Thermoplastic, 18-Inch	@	\$27.50	Lin. Ft.	\$0.00
91	0	Thermoplastic Grooved in Place Pavement Markings, Arrows, Type 2, White, Preformed	@	\$615.00	Each	\$0.00
92	0	Grooved in Place Pavement Markings, Words, Only, White, Preformed Thermoplastic	@	\$775.00	Each	\$0.00
93	0	Grooved in Place Pavement Markings, Arrows, Type 3, White, Preformed Thermoplastic	@	\$850.00	Each	\$0.00
94	0	Lin. Ft. of Pavement Markings, Curb Head, Yellow, Epoxy	@	\$8.00	Lin. Ft.	\$0.00
95	0	Lin. Ft. of Grooved in Place Pavement Markings, Yellow, Preformed Plastic, 12-Inch	@	\$17.50	Lin. Ft.	\$0.00
96	0	Lin. Ft. of Grooved in Place Pavement Markings, White, Preformed Plastic, 12-Inch	@	\$17.50	Lin. Ft.	\$0.00
97	0	Lin. Ft. of Grooved in Place Pavement Markings, Arrows, Type 6, White, Preformed Thermoplastic	@	\$1,000.00	Lin. Ft.	\$0.00
98	0	Clearing and Grubbing	@	\$70.00	Inch Dia.	\$0.00
99	0	Sq. Yds. of Topsoil and Sod (Includes Stripping)	@	\$7.25	Sq. Yd.	\$0.00
100	0	Lin. Ft. of Silt Fence, Delivered, Installed and Maintained	@	\$2.00	Lin. Ft.	\$0.00

101	0	Straw Bales Delivered, Installed and Maintained	@	\$10.00	Each	\$0.00
102	0	Lin. Ft. of Erosion Log Sediment Barrier Delivered, Installed and Maintained	@	\$6.00	Lin. Ft.	\$0.00
103	0	Filter Fabric Inlet Protection	@	\$50.00	Each	\$0.00
104	0.5	Temporary Street Lighting	@	\$56,766.34	Lump Sum	\$28,383.17
105	4,651	Lin. Ft. of Non Metallic Conduit, Street Light, Polyethylene Duct, Black, 2-Inch	@	\$6.38	Lin. Ft.	\$29,673.38
106	4,444	Lin. Ft. of Non Metallic Conduit, Communications, Polyethylene Duct, Orange, 3-Inch	@	\$7.84	Lin. Ft.	\$34,840.96
107	14	Street Light Pull Boxes, 15-Inch x 30-Inch	@	\$694.86	Each	\$9,728.04
108	13	Communications Pull Boxes, 24-Inch x 36-Inch	@	\$746.79	Each	\$9,708.27
109	32	Concrete Bases, Type 5	@	\$719.61	Each	\$23,027.52
110	2	Street Light Controller	@	\$6,653.33	Each	\$13,306.66
111	0.5	Relocate existing overhead sign structure (Delafield St)	@	\$451.90	Each	\$225.95
112	0.5	Relocate existing overhead sign structure with luminaire (North St.)	@	\$451.90	Each	\$225.95
113	0	Type 2 Concrete Base for Overhead Sign Structure (Delafield St and North St.)	@	\$830.53	Each	\$0.00
114	0	Lin. Ft. of Furnish and install 6-CT Fiber Optic Cable	@	\$1.40	Lin. Ft.	\$0.00
115	0	Modify Existing Signal Cabinet at Summit & Moreland for Fiber Optic Connection	@	\$5,244.75	Lump Sum	\$0.00
116	0	Install Fiber Optic Communication at Summit & Delafield Signal Cabinet	@	\$3,589.79	Lump Sum	\$0.00
117	0	Install Fiber Optic Communications at Delafield & Madison / North St Signal Cabinet	@	\$3,979.19	Lump Sum	\$0.00
118	0.5	Remove Salvage and Reinstall Fiber Optic Cable at Delafield & Madison Traffic Signal	@	\$4,943.83	Lump Sum	\$2,471.92
119	0	Lin. Ft. of Remove Existing Copper Communication Cable (North St.)	@	\$0.68	Lin. Ft.	\$0.00
120	0	Modify Existing Signal Cabinet at St Paul & North St. / Wisconsin for Fiber Optic Connection	@	\$5,390.77	Lump Sum	\$0.00
121	7	Lin. Ft. of 652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	@	\$4.78	Lin. Ft.	\$33.46
122	396	Lin. Ft. of 652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	@	\$5.95	Lin. Ft.	\$2,356.20
123	0	Lin. Ft. of 652.0615 Conduit Special 3-Inch	@	\$16.70	Lin. Ft.	\$0.00
124	16	653.0140 Pull Boxes Steel 24X42-Inch	@	\$756.33	Each	\$12,101.28
125	7	654.0101 Concrete Bases Type 1	@	\$544.95	Each	\$3,814.65
126	6	654.0102 Concrete Bases Type 2	@	\$830.53	Each	\$4,983.18
127	1	654.0217 Concrete Control Cabinet Bases Type 9 Special	@	\$1,692.09	Each	\$1,692.09
128	0	Lin. Ft. of 655.0230 Cable Traffic Signal 5-14 AWG	@	\$1.06	Lin. Ft.	\$0.00
129	0	Lin. Ft. of 655.0240 Cable Traffic Signal 7-14 AWG	@	\$1.22	Lin. Ft.	\$0.00
130	0	Lin. Ft. of 655.0260 Cable Traffic Signal 12-14 AWG	@	\$1.77	Lin. Ft.	\$0.00
131	0	Lin. Ft. of 655.0320 Cable Type UF 2-10 AWG Grounded	@	\$0.85	Lin. Ft.	\$0.00
132	0	Lin. Ft. of 655.0515 Electrical Wire Traffic Signals 10 AWG	@	\$0.76	Lin. Ft.	\$0.00
133	0	Lin. Ft. of 655.0615 Electrical Wire Lighting 10 AWG	@	\$0.76	Lin. Ft.	\$0.00
134	1	656.0200.01 Electrical Service Meter Breaker Pedestal - Delafield & Summit	@	\$1,159.16	Lump Sum	\$1,159.16
135	0	657.0100 Pedestal Bases	@	\$269.11	Each	\$0.00
136	0	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	@	\$402.97	Each	\$0.00
137	0	657.0305 Poles Type 2	@	\$1,157.85	Each	\$0.00
138	0	657.0310 Poles Type 3	@	\$2,551.17	Each	\$0.00
139	0	657.0420 Traffic Signal Standards Aluminum 13-Ft.	@	\$634.18	Each	\$0.00
140	0	657.0425 Traffic Signal Standards Aluminum 15-Ft.	@	\$670.68	Each	\$0.00
141	0	657.0430 Traffic Signal Standards Aluminum 10-Ft.	@	\$394.85	Each	\$0.00
142	0	657.0585 Trombone Arms 15-Ft.	@	\$1,434.74	Each	\$0.00
143	0	657.0590 Trombone Arms 20-Ft.	@	\$1,438.14	Each	\$0.00
144	0	657.0595 Trombone Arms 25-Ft.	@	\$1,669.35	Each	\$0.00
145	0	657.0615 Luminaire Arms Single Member 4 1/2-Inch Clamp 8-Ft.	@	\$295.87	Each	\$0.00
146	0	658.0110 Traffic Signal Face 3-12 Inch Vertical	@	\$420.71	Each	\$0.00
147	0	658.0120 Traffic Signal Face 5-12 Inch Vertical	@	\$619.15	Each	\$0.00
148	0	658.0215 Backplates Signal Face 3 Section 12-Inch	@	\$89.32	Each	\$0.00
149	0	658.0225 Backplates Signal Face 5 Section 12-Inch	@	\$100.60	Each	\$0.00
150	0	658.0416 Pedestrian Signal Face 16-Inch	@	\$267.62	Each	\$0.00
151	0	658.0600 LED Modules 12-Inch Red Ball	@	\$51.11	Each	\$0.00
152	0	658.0605 LED Modules 12-Inch Yellow Ball	@	\$52.33	Each	\$0.00

153	0	658.0610 LED Modules 12-Inch Green Ball	@	\$53.54	Each	\$0.00
154	0	658.0615 LED Modules 12-Inch Red Arrow	@	\$51.11	Each	\$0.00
155	0	658.0620 LED Modules 12-Inch Yellow Arrow	@	\$52.33	Each	\$0.00
156	0	658.0625 LED Modules 12-Inch Green Arrow	@	\$53.54	Each	\$0.00
157	0	658.0635 LED Modules Pedestrian Countdown Timer 16-Inch	@	\$268.13	Each	\$0.00
158	0	658.5069.01 Signal Mounting Hardware - Delafield, North & Madison	@	\$2,935.96	Lump Sum	\$0.00
159	0	658.5069.01 Signal Mounting Hardware - Delafield & Summit	@	\$3,027.22	Lump Sum	\$0.00
160	0.9	661.0200.01 Temporary Traffic Signals For Intersections - Delafield, North & Madison	@	\$28,967.58	Lump Sum	\$26,070.82
161	0	SPV.0060.01 LED Luminaires	@	\$882.65	Each	\$0.00
162	0	SPV.0060.02 Traffic Signal Controller and Cabinet 8-Phase Fully Actuated	@	\$16,209.30	Each	\$0.00
163	0.5	SPV.0105.01 Removing and Reinstalling Video Vehicle Detection System - Delafield, North & Madison	@	\$5,301.69	Each	\$2,650.85
164	0	SPV.0105.02 Video Vehicle Detection System - Delafield & Summit	@	\$23,980.77	Each	\$0.00
165	0	SPV.0105.03 Emergency Vehicle Preemption System - Delafield, North & Madison	@	\$9,856.47	Lump Sum	\$0.00
166	0	SPV.0105.04 Emergency Vehicle Preemption System - Delafield & Summit	@	\$9,856.47	Lump Sum	\$0.00
167	1	SPV.0105.05 Remove Traffic Signals and Street Lighting - Delafield, North & Madison	@	\$3,115.45	Lump Sum	\$3,115.45
168	0	SPV.0105.06 Audible Pedestrian Push Button System - Delafield, North & Madison	@	\$7,849.94	Lump Sum	\$0.00
169	0	SPV.0105.07 Audible Pedestrian Push Button System - Delafield & Summit	@	\$6,633.06	Lump Sum	\$0.00
170	0.9	SPV.0105.08 Temporary Non-Intrusive Vehicle Detection System for Intersections - Delafield, North & Madison	@	\$12,430.95	Lump Sum	\$11,187.86
171	0	SPV.0105.09 Modify Traffic Signals - Delafield, North & Madison	@	\$1,460.25	Lump Sum	\$0.00
172	1	SPV.0105.10 Remove Traffic Signals and Street Lighting - Delafield & Summit	@	\$4,153.93	Lump Sum	\$4,153.93
Extra No. 1	1	Temporary Lighting Feed to Lower City Hall Lot	@	\$1,108.27	Lump Sum	\$1,108.27
Subtotal						\$4,008,855.18
Less Retainage						\$130,390.47
Total						\$3,878,464.71
Less Amount Previously Paid						\$3,413,473.60
Total Amount Due						\$464,991.11

This estimate has been checked by the Engineering Department and we recommend that the above amount of \$464,991.11 be allowed.

Respectfully Submitted,


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