

49	8	Lin. Ft. of 54-Inch Storm Sewer (RCSP)	@	\$362.00	Lin. Ft.	\$2,896.00
50	90.2	Vert. Ft. of 65 Standard Storm Inlets	@	\$295.00	Vert. Ft.	\$26,609.00
51	0	Vert. Ft. of Rehabilitate Storm Manhole with Cementitious Liner	@	\$113.00	Vert. Ft.	\$0.00
52	0	Vert. Ft. of 5 Standard Storm Manholes	@	\$217.00	Vert. Ft.	\$0.00
53	0	Vert. Ft. of 1 - 60-Inch Diameter Storm Manhole	@	\$727.00	Vert. Ft.	\$0.00
54	0	Vert. Ft. of 1 - 108-Inch Diameter Storm Manhole	@	\$1,250.00	Vert. Ft.	\$0.00
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	0	Lin. Ft. of Sawcutting at Pavement Limits	@	\$3.00	Lin. Ft.	\$0.00
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	122	Lin. Ft. of Concrete Curb and Gutter Removal	@	\$3.00	Lin. Ft.	\$366.00
62	0	Sq. Yds. of Pavement Removal	@	\$4.00	Sq. Yd.	\$0.00
63	0	Tons of 1/4-Inch Dense Aggregate	@	\$14.00	Ton	\$0.00
64	0	Tons of 1/4-Inch Crushed Stone Backfill (Includes Undercut)	@	\$11.00	Ton	\$0.00
65	0	Tons of 3-Inch Crushed Stone Backfill (Includes Undercut)	@	\$11.00	Ton	\$0.00
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	0	Lin. Ft. of 30-Inch Combination Concrete Curb and Gutter	@	\$14.00	Lin. Ft.	\$0.00
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	0	Sq. Ft. of 9-Inch Concrete Pavement, Doweled	@	\$35.00	Sq. Ft.	\$0.00
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	0	Sq. Ft. of Walk and Drive Approach Removal	@	\$2.00	Sq. Ft.	\$0.00
77	0	Sq. Ft. of New 4-Inch Concrete Walk and Curb Ramps	@	\$4.40	Sq. Ft.	\$0.00
78	0	Lin. Ft. of Concrete Curb - Pedestrian	@	\$50.00	Lin. Ft.	\$0.00
79	0	Sq. Ft. of New 6-Inch Concrete Walk and Drive Approach	@	\$4.70	Sq. Ft.	\$0.00
80	0	Sq. Ft. of New 7-Inch Concrete Walk and Drive Approach	@	\$4.90	Sq. Ft.	\$0.00
81	0	Sq. Ft. of Concrete Slope Nose	@	\$10.00	Sq. Ft.	\$0.00
82	0	Sq. Ft. of Detectable Warning Field	@	\$45.00	Sq. Ft.	\$0.00
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	0	Lin. Ft. of Non Metallic Conduit, Street Light, Polyethylene Duct, Black, 2-Inch	@	\$6.38	Lin. Ft.	\$0.00
106	0	Lin. Ft. of Non Metallic Conduit, Communications, Polyethylene Duct, Orange, 3-Inch	@	\$7.84	Lin. Ft.	\$0.00
107	0	Street Light Pull Boxes, 15-Inch x 30-Inch	@	\$694.86	Each	\$0.00
108	0	Communications Pull Boxes, 24-Inch x 36-Inch	@	\$746.79	Each	\$0.00
109	0	Concrete Bases, Type 5	@	\$719.61	Each	\$0.00
110	0	Street Light Controller	@	\$6,653.33	Each	\$0.00
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	0	Lin. Ft. of 652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch	@	\$4.78	Lin. Ft.	\$0.00
122	0	Lin. Ft. of 652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch	@	\$5.95	Lin. Ft.	\$0.00
123	0	Lin. Ft. of 652.0615 Conduit Special 3-Inch	@	\$16.70	Lin. Ft.	\$0.00
124	0	653.0140 Pull Boxes Steel 24X42-Inch	@	\$756.33	Each	\$0.00
125	0	654.0101 Concrete Bases Type 1	@	\$544.95	Each	\$0.00
126	0	654.0102 Concrete Bases Type 2	@	\$830.53	Each	\$0.00
127	0	654.0217 Concrete Control Cabinet Bases Type 9 Special	@	\$1,692.09	Each	\$0.00
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	0	656.0200.01 Electrical Service Meter Breaker Pedestal - Delafield & Summit	@	\$1,159.16	Lump Sum	\$0.00
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 I.F.D Modules 12-Inch Red Ball	@	\$51.11	Each	\$0.00
152	0	658.0605 I.F.D 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	\$1,030,236.26
							Less Retainage	\$51,511.81
							Total	\$978,724.45
							Less Amount Previously Paid	\$730,132.72
							Total Amount Due	\$248,591.73

This estimate has been checked by the Engineering Department and we recommend that the above amount of \$248,591.73 be allowed.

Respectfully Submitted,



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