

September 8, 2016

TO THE BOARD OF PUBLIC WORKS
CITY OF WAUKESHA, WISCONSIN

Periodical estimate for Partial Payment No. 8 to Advance Construction, Inc. 2141 Woodale Ave., Green Bay 54313, for E. Moreland Blvd.
Utility and Street Improvements - **Concrete.**

Contract No. 3934

2/26/2016

\$ 4,907,507.57

Item No	Quantity	Description		Cost	Per Unit	Amount
1	0.6	Traffic Control	@	\$105,000.00	Lump Sum	\$63,000.00
2	1	E. Moreland Blvd. Detour	@	\$5,600.00	Lump Sum	\$5,600.00
3	5	Fence Safety (WisDOT 616.0700.S.)	@	\$3.00	Lin. Ft.	\$15.00
4	200	Sawcutting at Pavement Limits	@	\$2.50	Lin. Ft.	\$500.00
5	173	Clearing and Grubbing	@	\$45.00	Inch Dia.	\$7,785.00
6	8,400	Concrete Curb and Gutter Removal	@	\$2.00	Lin. Ft.	\$16,800.00
7	22,650	Pavement Removal	@	\$2.00	Sq. Yd.	\$45,300.00
8	5,240	Sidewalk and Drive Approach Removal	@	\$1.00	Sq. Ft.	\$5,240.00
9	0	1¼-Inch Dense Aggregate	@	\$13.00	Ton	\$0.00
10	0	1¼-Inch Crushed Stone Backfill	@	\$25.00	Ton	\$0.00
11	0	3-Inch Crushed Stone Backfill	@	\$25.00	Ton	\$0.00
12	0	Geotextile Fabric, Type SAS	@	\$2.25	Sq. Yd.	\$0.00
13	0	Shaping and Grading of Roadway Base	@	\$25.00	Lin. Ft.	\$0.00
14	200	30-Inch Combination Concrete Curb and Gutter	@	\$12.50	Lin. Ft.	\$2,500.00
15	0	Concrete Curb and Gutter Type 30G (WisDOT 601.0413)	@	\$50.00	Lin. Ft.	\$0.00
16	370	9-Inch Concrete Pavement, Doweled	@	\$35.00	Sq. Yd.	\$12,950.00
17	0	8-Inch Concrete Pavement, Doweled	@	\$35.00	Sq. Yd.	\$0.00
18	0	HMA Pavement Type E-3, 19.0 mm PG 64-28	@	\$115.00	Ton	\$0.00
19	0	HMA Pavement Type E-3, 12.5 mm PG 64-28	@	\$120.00	Ton	\$0.00
20	0	HMA Pavement Type E-3, 9.5 mm PG 64-28	@	\$145.00	Ton	\$0.00
21	0	4-Inch HMA Pavement for Driveways	@	\$5.20	Sq. Ft.	\$0.00
22	0	HMA Butt Joint	@	\$5.40	Sq. Ft.	\$0.00
23	0	Concrete Curb - Pedestrian	@	\$50.00	Lin. Ft.	\$0.00
24	0	Remove, Salvage and Re-install Brick Pavers at Frame Park, SPV.0165.01	@	\$38.00	Sq. Ft.	\$0.00
25	0	Stamped Colored Concrete Sidewalk 4-Inch, SPV.0165.02	@	\$9.00	Sq. Ft.	\$0.00
26	960	New 4-Inch Concrete Sidewalk and Curb Ramps	@	\$4.40	Sq. Ft.	\$4,224.00
27	0	New 6-Inch Concrete Sidewalk and Drive Approach	@	\$4.40	Sq. Ft.	\$0.00
28	0	New 7-Inch Concrete Sidewalk and Drive Approach	@	\$4.70	Sq. Ft.	\$0.00
29	0	Concrete Slope Nose	@	\$10.00	Sq. Ft.	\$0.00
30	8	Detectable Warning Field	@	\$45.00	Sq. Ft.	\$360.00
31	0	Extra Bags of Cement for High-Early-Strength Concrete	@	\$10.00	Each	\$0.00
32	0	Pavement Marking Epoxy 4-Inch	@	\$1.55	Lin. Ft.	\$0.00
33	0	Pavement Marking Epoxy 8-Inch	@	\$2.05	Lin. Ft.	\$0.00
34	0	Pavement Marking Diagonal Epoxy 12-Inch	@	\$8.75	Lin. Ft.	\$0.00
35	0	Pavement Marking Stop Line Epoxy 18-Inch	@	\$10.00	Lin. Ft.	\$0.00
36	0	Pavement Marking Crosswalk Epoxy 6-Inch	@	\$7.50	Lin. Ft.	\$0.00
37	0	Pavement Marking Arrows Epoxy Type 2	@	\$275.00	Each	\$0.00
38	0	Pavement Marking Words Epoxy	@	\$335.00	Each	\$0.00
39	0	Pavement Marking Railroad Crossings Epoxy	@	\$535.00	Each	\$0.00

Item No	Quantity	Description		Cost	Per Unit	Amount
40	0	Pavement Marking Island Nose Epoxy	@	\$125.00	Each	\$0.00
41	0	Signs Reflective Type II	@	\$21.40	Sq. Ft.	\$0.00
42	0	Moving Signs	@	\$125.00	Each	\$0.00
43	0	Moving Small Sign Supports	@	\$50.00	Each	\$0.00
44	100	Removing Signs	@	\$18.00	Each	\$1,800.00
45	50	Removing Small Sign Supports	@	\$18.00	Each	\$900.00
46	0	Metal Sign Posts, 2.5-Inch Round	@	\$125.00	Each	\$0.00
47	0	Square Break-Away Posts, SPV 0060.12	@	\$150.00	Each	\$0.00
48	0	Topsoil and Sod	@	\$7.45	Sq. Yd.	\$0.00
49	391	Topsoil, Seed, and Erosion Mat	@	\$4.15	Sq. Yd.	\$1,622.65
50	288	Silt Fence, Delivered, Installed and Maintained	@	\$2.00	Lin. Ft.	\$576.00
51	105	Turbidity Barrier Delivered, Installed and Maintained	@	\$50.00	Lin. Ft.	\$5,250.00
52	0	Straw Bales Delivered, Installed and Maintained	@	\$12.00	Each	\$0.00
53	41	Filter Fabric Inlet Protection, Type A and C	@	\$68.00	Each	\$2,788.00
54	1	Temporary Street Lighting	@	\$55,650.25	Lump Sum	\$55,650.25
55	0	Non Metallic Conduit, Street Light, Polyethylene Duct, Black, 2-Inch	@	\$5.03	Lin. Ft.	\$0.00
56	0	Street Light Pull Boxes, 15-Inch x 30-Inch	@	\$322.36	Each	\$0.00
57	0	Concrete Bases, Type 5	@	\$716.94	Each	\$0.00
58	0	Street Light Control Cabinet	@	\$5,420.79	Each	\$0.00
59	0	Concrete Control Cabinet Bases Type 9 Special (WisDOT 654.0217)	@	\$1,693.02	Each	\$0.00
60	0	Electrical Wire Lighting 4 AWG (WisDOT 655.0630)	@	\$1.34	Lin. Ft.	\$0.00
61	0	Electrical Service Meter Breaker Pedestal – (Lighting - E. Moreland Blvd. and White Rock Avenue) (WisDOT 656.0200.02)	@	\$1,160.99	Lump Sum	\$0.00
62	6	Remove Existing Roadway Lighting Unit, SPV.0060.09	@	\$206.73	Each	\$1,240.38
63	11	Remove and Re-Install Lighting Assembly, SPV.0060.10	@	\$396.02	Each	\$4,356.22
64	0	Removing Existing Light Control Cabinet, SPV.0060.11	@	\$413.45	Each	\$0.00
65	0	Conduit Rigid Nonmetallic Schedule 40 2-Inch (WisDOT 652.0225)	@	\$4.77	Lin. Ft.	\$0.00
66	0	Conduit Rigid Nonmetallic Schedule 40 3-Inch (WisDOT 652.0235)	@	\$5.94	Lin. Ft.	\$0.00
67	0	Pull Boxes Steel 24x42-Inch (WisDOT 653.0140)	@	\$758.11	Each	\$0.00
68	0	Concrete Bases Type 1 (WisDOT 654.0101)	@	\$545.56	Each	\$0.00
69	0	Concrete Bases Type 2 (WisDOT 654.0102)	@	\$832.26	Each	\$0.00
70	0	Concrete Bases Type 10 (WisDOT 654.0110)	@	\$4,438.25	Each	\$0.00
71	0	Concrete Bases Type 13 (WisDOT 654.0113)	@	\$8,144.09	Each	\$0.00
72	0	Cable Traffic Signal 5-14 AWG (WisDOT 655.0230)	@	\$1.06	Lin. Ft.	\$0.00
73	0	Cable Traffic Signal 7-14 AWG (WisDOT 655.0240)	@	\$1.22	Lin. Ft.	\$0.00
74	0	Cable Traffic Signal 12-14 AWG (WisDOT 655.0260)	@	\$1.78	Lin. Ft.	\$0.00
75	0	Cable Traffic Signal 15-14 AWG (WisDOT 655.0270)	@	\$2.14	Lin. Ft.	\$0.00
76	0	Cable Type UF 2-10 AWG (WisDOT 655.0315)	@	\$1.15	Lin. Ft.	\$0.00
77	0	Electrical Wire Traffic Signals 10 AWG (WisDOT 655.0515)	@	\$0.76	Lin. Ft.	\$0.00
78	0	Electrical Wire Lighting 12 AWG	@	\$0.64	Lin. Ft.	\$0.00
79	0	Electrical Service Meter Breaker Pedestal (Signal – E. Moreland Blvd. and White Rock Ave) (WisDOT 656.0200.01)	@	\$1,160.99	Lump Sum	\$0.00
80	0	Pedestal Bases (WisDOT 657.0100)	@	\$227.12	Each	\$0.00
81	0	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle (WisDOT 657.0255)	@	\$380.58	Each	\$0.00
82	0	Poles Type 3 (WisDOT 657.0310)	@	\$2,605.68	Each	\$0.00
83	0	Poles Type 4 (WisDOT 657.0315)	@	\$1,332.78	Each	\$0.00

Item No	Quantity	Description		Cost	Per Unit	Amount
84	0	Traffic Signal Standards Aluminum 13-Foot (WisDOT 657.0420)	@	\$562.62	Each	\$0.00
85	0	Traffic Signal Standards Aluminum 15-Foot (WisDOT 657.0425)	@	\$574.90	Each	\$0.00
86	0	Traffic Signal Standards Aluminum 10-Foot (WisDOT 657.0430)	@	\$390.45	Each	\$0.00
87	0	Trombone Arms 15-FT (WisDOT 657.0585)	@	\$1,321.79	Each	\$0.00
88	0	Luminaire Arms Single Member 4-Inch Clamp 6-Foot (WisDOT 657.0609)	@	\$223.43	Each	\$0.00
89	0	Traffic Signal Face 3-12 Inch Vertical (WisDOT 658.0110)	@	\$440.04	Each	\$0.00
90	0	Traffic Signal Face 4-12 Inch Vertical (WisDOT 658.0115)	@	\$539.54	Each	\$0.00
91	0	Traffic Signal Face 5-12 Inch Vertical (WisDOT 658.0120)	@	\$645.33	Each	\$0.00
92	0	Backplates Signal Face 3 Section 12-Inch (WisDOT 658.0215)	@	\$89.48	Each	\$0.00
93	0	Backplates Signal Face 4 Section 12-Inch (WisDOT 658.0220)	@	\$95.62	Each	\$0.00
94	0	Backplates Signal Face 5 Section 12-Inch (WisDOT 658.0225)	@	\$106.93	Each	\$0.00
95	0	Pedestrian Signal Face 16-Inch (WisDOT 658.0416)	@	\$292.79	Each	\$0.00
96	0	LED Modules 12-Inch Red Ball (WisDOT 658.0600)	@	\$51.56	Each	\$0.00
97	0	LED Modules 12-Inch Yellow Ball (WisDOT 658.0605)	@	\$52.79	Each	\$0.00
98	0	LED Modules 12-Inch Green Ball (WisDOT 658.0610)	@	\$54.02	Each	\$0.00
99	0	LED Modules 12-Inch Red Arrow (WisDOT 658.0615)	@	\$51.56	Each	\$0.00
100	0	LED Modules 12-Inch Yellow Arrow (WisDOT 658.0620)	@	\$52.79	Each	\$0.00
101	0	LED Modules 12-Inch Green Arrow (WisDOT 658.0625)	@	\$54.02	Each	\$0.00
102	0	LED Modules Pedestrian Countdown Timer 16-Inch (WisDOT 658.0635)	@	\$275.23	Each	\$0.00
103	0	Signal Mounting Hardware (E. Moreland Blvd. and White Rock Ave.) WisDOT 658.5069.01	@	\$3,477.74	Lump Sum	\$0.00
104	0	Monotube Poles Type 10, SPV.0060.01	@	\$4,882.32	Each	\$0.00
105	0	Monotube Poles Type 13, SPV.0060.02	@	\$9,840.07	Each	\$0.00
106	0	Monotube Arms 25-FT, SPV.0060.03	@	\$3,372.31	Each	\$0.00
107	0	Monotube Arms 40-FT, SPV.0060.04	@	\$5,764.26	Each	\$0.00
108	0	Luminaire Arm Steel 12-FT, SPV.0060.05	@	\$456.93	Each	\$0.00
109	0	Install LED Luminaire, SPV.0060.06	@	\$183.16	Each	\$0.00
110	0	Traffic Signal Controller and Cabinet 8-Phase Fully Actuated, SPV.0060.07	@	\$15,980.33	Each	\$0.00
111	0	Battery Backup System, E. Moreland Blvd. and White Rock Avenue, SPV.0060.08	@	\$7,106.36	Each	\$0.00
112	0	Video Vehicle Detection System, Intersection of E. Moreland Blvd. and White Rock Avenue, SPV.0105.01	@	\$24,417.94	Lump Sum	\$0.00
113	0	Emergency Vehicle Preemption System, Intersection of E. Moreland Blvd. and White Rock Avenue, SPV.0105.02	@	\$12,170.85	Lump Sum	\$0.00
114	1	Remove Traffic Signals, Intersection of E. Moreland Blvd. and White Rock Avenue, SPV.0105.03	@	\$3,100.88	Lump Sum	\$3,100.88
115	0	Salvage Copper Communications Cable at the E. Moreland Blvd. and White Rock Avenue Traffic Signal, SPV.0105.04	@	\$413.45	Lump Sum	\$0.00
116	0	Audible Pedestrian Push Button System, Intersection of E. Moreland Blvd and White Rock Avenue, SPV.0105.05	@	\$5,866.90	Lump Sum	\$0.00
117	12	Remove Existing Storm Manhole	@	\$550.00	Each	\$6,600.00
118	14	Remove Existing Inlet	@	\$500.00	Each	\$7,000.00
119	251.5	Remove Existing 12-Inch Storm Sewer	@	\$11.00	Lin. Ft.	\$2,766.50
120	256	Remove Existing 15-Inch Storm Sewer	@	\$12.00	Lin. Ft.	\$3,072.00
121	0	Remove Existing 18-Inch Storm Sewer	@	\$14.00	Lin. Ft.	\$0.00
122	0	Remove Existing 24-Inch Storm Sewer	@	\$16.00	Lin. Ft.	\$0.00
123	739	Remove Existing 30-Inch Storm Sewer	@	\$20.00	Lin. Ft.	\$14,780.00
124	918	Remove Existing 36-Inch Storm Sewer	@	\$30.00	Lin. Ft.	\$27,540.00
125	2	Abandon Existing Storm Manhole	@	\$450.00	Each	\$900.00
126	0	Abandon Existing Inlet	@	\$400.00	Each	\$0.00
127	0	Abandon Existing 12-Inch Storm Sewer	@	\$6.00	Lin. Ft.	\$0.00

Item No	Quantity	Description		Cost	Per Unit	Amount
128	36	Abandon Existing 15-Inch Storm Sewer	@	\$7.00	Lin. Ft.	\$252.00
129	0	Abandon Existing 30-Inch Storm Sewer	@	\$20.00	Lin. Ft.	\$0.00
130	0	Abandon Existing 36-Inch Storm Sewer	@	\$25.00	Lin. Ft.	\$0.00
131	301	12-Inch RCP Storm Sewer, Class III	@	\$68.00	Lin. Ft.	\$20,468.00
132	186	15-Inch RCP Storm Sewer, Class III	@	\$69.00	Lin. Ft.	\$12,834.00
133	84	18-inch RCP Storm Sewer, Class III	@	\$73.00	Lin. Ft.	\$6,132.00
134	13	27-Inch RCP Storm Sewer, Class III	@	\$85.00	Lin. Ft.	\$1,105.00
135	62	36-Inch RCP Storm Sewer, Class III	@	\$115.00	Lin. Ft.	\$7,130.00
136	110.5	54-Inch RCP Storm Sewer, Class IV	@	\$190.00	Lin. Ft.	\$20,995.00
137	3,090	66-Inch RCP Storm Sewer, Class IV	@	\$295.00	Lin. Ft.	\$911,550.00
138	54.5	53x83-inch RCP Horizontal Elliptical Storm Sewer, Class IV	@	\$400.00	Lin. Ft.	\$21,800.00
139	10	48-Inch Diameter Storm Tee Manhole	@	\$3,000.00	Dia.	\$30,000.00
140	1	72-Inch Diameter Storm Manhole	@	\$4,500.00	Dia.	\$4,500.00
141	1	108-Inch Diameter Storm Manhole	@	\$10,000.00	Dia.	\$10,000.00
142	3	108-Inch Diameter Storm Manhole, with Reduced Riser	@	\$16,800.00	Dia.	\$50,400.00
143	2	120-Inch Diameter Storm Manhole, with Reduced Riser	@	\$20,000.00	Dia.	\$40,000.00
144	1	54-Inch RCP Storm Sewer 61-Degree Bend	@	\$2,317.00	Each	\$2,317.00
145	0	54-Inch RCP Storm Sewer 66-Degree Bend	@	\$2,317.00	Each	\$0.00
146	1	66-Inch RCP Storm Sewer 54-Degree Bend	@	\$4,091.00	Each	\$4,091.00
147	1	66-Inch RCP Storm Sewer 13-Degree Bend	@	\$4,342.00	Each	\$4,342.00
148	1	66-Inch RCP Storm Sewer 10-Degree Bend	@	\$4,342.00	Each	\$4,342.00
149	2	Inlets 2x3-Ft	@	\$1,500.00	Each	\$3,000.00
150	17	Inlets 2x3-Ft, with Sump	@	\$1,900.00	Each	\$32,300.00
151	1	Concrete Collars 30-Inches and Under	@	\$500.00	Each	\$500.00
152	3	Concrete Collars Over 30-Inches	@	\$1,500.00	Each	\$4,500.00
153	1	54-Inch Apron Endwall	@	\$2,300.00	Each	\$2,300.00
154	48	54-Inch RCP Bore and Jack Under Railroad	@	\$2,000.00	Lin. Ft.	\$96,000.00
155	0	Removing Bulkheads (Wolf Road to Manhattan Drive)	@	\$1,000.00	Each	\$0.00
156	0	Bulkheads (Wolf Road to Manhattan Drive)	@	\$3,000.00	Each	\$0.00
157	0	Chimney Replacement	@	\$800.00	Each	\$0.00
158	0	Chimney Seals	@	\$400.00	Each	\$0.00
159	0	Main Line Sewer Televising	@	\$1.00	Lin. Ft.	\$0.00
160	0	Lateral Sewer Televising	@	\$125.00	Each	\$0.00
161	62	8-Inch PVC Sanitary Sewer	@	\$85.00	Lin. Ft.	\$5,270.00
162	1	48-Inch Diameter Sanitary Sewer Drop Manhole	@	\$4,400.00	Dia.	\$4,400.00
163	1,624.7	6-Inch Sanitary Lateral Replacement	@	\$88.80	Lin. Ft.	\$144,273.36
164	29	Sanitary Lateral Abandonment	@	\$800.00	Each	\$23,200.00
165	145	16-Inch DI Water Main and Fittings	@	\$250.00	Lin. Ft.	\$36,250.00
166	265	16-Inch HDPE Horizontal Direction Drilled Water Main and Fittings	@	\$390.00	Lin. Ft.	\$103,350.00
167	1,447	12-Inch DI Water Main and Fittings	@	\$170.00	Lin. Ft.	\$245,990.00
168	644	8-Inch DI Water Main and Fittings	@	\$170.00	Lin. Ft.	\$109,480.00
169	0	Corrosion Protection	@	\$8,000.00	Lump Sum	\$0.00
170	1	16-Inch Butterfly Valves	@	\$4,550.00	Each	\$4,550.00
171	9	12-Inch Gate Valves	@	\$2,666.00	Each	\$23,994.00
172	7	8-Inch Gate Valves	@	\$1,522.00	Each	\$10,654.00
173	5	Furnish and Install Hydrant Assembly	@	\$6,275.00	Each	\$31,375.00
174	0	Furnish and Install Hydrant Assembly, WWU Provides Direct Tap	@	\$5,475.00	Each	\$0.00
175	4	WL1 - Connect Existing 3/4-Inch Service Lateral	@	\$4,027.00	Each	\$16,108.00
176	13	WL2 - Connect Existing 1-Inch Service Lateral	@	\$3,895.00	Each	\$50,635.00
177	0	WL3 - Connect Existing 1-Inch Service Lateral	@	\$2,250.00	Each	\$0.00
178	0	WL4 - Connect Existing 1 1/4-Inch Service Lateral	@	\$2,760.00	Each	\$0.00

Item No	Quantity	Description		Cost	Per Unit	Amount
179	0	WL6 - Connect Existing 1-Inch Service Lateral	@	\$2,950.00	Each	\$0.00
180	0	WL7 - Connect Existing 2-Inch Service Lateral	@	\$1,745.00	Each	\$0.00
181	1	WL8 - Connect Existing 1 1/4-Inch Service Lateral	@	\$2,855.00	Each	\$2,855.00
182	2	WL10 - Connect Existing 1-Inch Service Lateral	@	\$1,600.00	Each	\$3,200.00
183	1	WL11 - Connect Existing 3/4-Inch Service Lateral	@	\$4,180.00	Each	\$4,180.00
184	4	WL12 - Connect Existing 3/4-Inch Service Lateral	@	\$2,283.00	Each	\$9,132.00
185	2	Furnish and Install Curb Boxes and Rods (If Required)	@	\$250.00	Each	\$500.00
186	2	Furnish and Install Curb Stop (If Required)	@	\$201.00	Each	\$402.00
187	0	Cap and Abandon Water Service	@	\$800.00	Each	\$0.00
188	0	Remove Existing Hydrant	@	\$500.00	Each	\$0.00
189	0	Abandon Valve Boxes and Manholes	@	\$500.00	Each	\$0.00
190	0	Valve Box Adjustment	@	\$100.00	Each	\$0.00
191	0	Pipe Insulation, 2-Inch Extruded Polystyrene	@	\$20.00	Sq. Yd.	\$0.00
192	0	Loose Rock Excavation	@	\$200.00	Cu. Yd.	\$0.00
193	0	Solid Rock Excavation	@	\$400.00	Cu. Yd.	\$0.00
194	191	Rip Rap Heavy	@	\$85.00	Cu. Yd.	\$16,235.00
195	1	Outfall Grading	@	\$12,000.00	Lump Sum	\$12,000.00
196	0	Slurry Backfill	@	\$100.00	Cu. Yd.	\$0.00
Extra No. 1	1	Traffic Control - Fixed Message Sign	@	\$576.00	Lump Sum	\$576.00
extra No. 2	1	Traffic Control - Extra Detour Sign	@	\$1,250.00	Lump Sum	\$1,250.00
Subtotal						<u>\$2,454,934.24</u>
Less Retainage						<u>\$122,746.71</u>
Subtotal						<u>\$2,332,187.53</u>
Amount Previously Paid						<u>\$1,815,561.32</u>
Total Amount Due						<u>\$516,626.21</u>

This estimate has been checked by the Engineering Department and we recommend that the above amount of \$516,626.21 be allowed.

Respectfully Submitted,



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