

**PROJECT UNIT COST ANALYSIS**

**ESTIMATE OF QUANTITIES**

PROJECT ID 2120-17-90  
 W. FOREST HOME AV. / S. 27TH ST. - 6 CONNECTING HIGHWAYS  
 STH 24/241  
 MILWAUKEE COUNTY

Item No.	Std. Bid Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
71032A	SPV.0060.220	EVP (Opticom) Phase Selector Card 2 Channel	Each	1	\$ 1,758.75	\$ 2,029.08	\$ 2,029.08
71032B	SPV.0060.221	EVP (Opticom) Phase Selector Card 4 Channel	Each	5	\$ 13,755.00	\$ 3,164.31	\$ 15,821.57
71033	SPV.0060.218	EVP (Opticom) 711 Detector	Each	22	\$ 9,783.84	\$ 739.16	\$ 16,261.58
71035	SPV.0060.223	EVP (Opticom) Confirmation Light Assembly	Each	22	\$ 928.18	\$ 235.09	\$ 5,171.88
71040	SPV.0060.226	Vehicular Microwave Detection System	Each	2	\$ 8,400.00	\$ 6,648.08	\$ 13,296.16
71052	SPV.0060.205	ATC Controller and Cabinet Installed	Each	6	\$ 80,373.48	\$ 15,731.38	\$ 94,388.28
71061	658.0174	Traffic Signal Face 4S 12-Inch	Each	11	\$ 3,769.92	\$ 589.22	\$ 6,481.38
71062	658.0173	Traffic Signal Face 3S 12-Inch	Each	90	\$ 22,712.40	\$ 485.83	\$ 43,725.04
71065	658.0500	Pedestrian Push Buttons	Each	22	\$ 704.00	\$ 151.79	\$ 3,339.39
71080	658.1115	Programmable Traffic Signal Face 4-12 Vertical	Each	3	\$ 7,522.50	\$ 3,317.66	\$ 9,952.98
71081	658.1110	Programmable Traffic Signal Face 3-12 Vertical	Each	6	\$ 11,337.84	\$ 2,498.57	\$ 14,991.39
71143	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	80	\$ 4.80	\$ 8.82	\$ 705.64
71145	652.0230	Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	LF	10	\$ 0.30	\$ 8.79	\$ 87.85
71147	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	20	\$ 1.20	\$ 8.82	\$ 176.40
71154	655.0900	Traffic Signal EVP Detector Cable	LF	4,705	\$ 2,117.25	\$ 3.49	\$ 16,414.35
71156	SPV.0090.220	Cable Traffic Signal Loop Lead-In	LF	20	\$ 3.20	\$ 3.16	\$ 63.15
71170	655.0250	Cable Traffic Signal 9-14 AWG	LF	20	\$ 9.20	\$ 3.50	\$ 70.02
71171	655.0260	Cable Traffic Signal 12-14 AWG	LF	385	\$ 323.40	\$ 3.94	\$ 1,515.48
71172	SPV.0090.211	Cable Traffic Signal 17-14 AWG	LF	1,440	\$ 1,699.20	\$ 4.32	\$ 6,226.22
71173	SPV.0090.212	Cable Traffic Signal 20-14 AWG	LF	230	\$ 317.40	\$ 4.55	\$ 1,047.09
71177	SPV.0060.216	Install Secondary Riser	Each	2	\$ 13.28	\$ 122.77	\$ 245.54
71178	SPV.0060.217	Remove Secondary Riser	Each	2	\$ -	\$ 115.18	\$ 230.35
71188	SPV.0060.300	Polymer Concrete Pull Box 13"x24"x24"	Each	18	\$ 4,046.58	\$ 407.93	\$ 7,342.82
71201	657.0100	Pedestal Base	Each	34	\$ 6,630.00	\$ 234.62	\$ 7,977.00
71202	657.0405	Traffic Signal Standards Aluminum 3.5-FT	Each	7	\$ 1,750.00	\$ 297.55	\$ 2,082.82
71203	657.0430	Traffic Signal Standards Aluminum 10-FT	Each	6	\$ 1,740.00	\$ 343.31	\$ 2,059.84
71205	657.0420	Traffic Signal Standards Aluminum 13-FT	Each	15	\$ 4,875.00	\$ 383.35	\$ 5,750.27
71206	657.0425	Traffic Signal Standards Aluminum 15-FT	Each	6	\$ 2,310.00	\$ 452.00	\$ 2,711.98
71700	SPV.0060.277	Signal Housing Relocated	Each	38	\$ -	\$ 345.54	\$ 13,130.44
73299	637.2220	Signs Type II Reflective SH	SF	144	\$ 889.92	\$ 14.37	\$ 2,069.59

**LFA CONSTRUCTION COST \$ 295,365.58**  
**LFA EXCLUDED COST \$ 187,776.64**  
**STATE REVIEW COST (8%) \$ 23,629.25**  
**TOTAL PROJECT COST \$ 318,994.83**

APPROVED BY:



JOSEPH C. BLAKEMAN, PE  
 TRAFFIC ENGINEER SENIOR

TRANSPORTATION SECTION  
 TRAFFIC AND LIGHTING DESIGN UNIT  
 SCOTT C. REINBACHER  
 REVISED: NOVEMBER 17, 2017

\* Please note that the Total City Cost includes the embedded costs of mobilization, traffic control, mounting hardware, material removal, and construction staking electrical installations which are included in the times used for calculating City Unit Costs on the attached worksheets.