

PROJECT UNIT COST ANALYSIS

ESTIMATE OF QUANTITIES

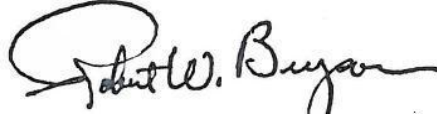
PROJECT ID 2265-08-90
S. 27TH ST. - W. HOWARD AV. TO THE UNION PACIFIC RR
STH 241
MILWAUKEE COUNTY

Item No.	Std. Bid Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
71033	SPV.0060.01	Opticom 711 Detector w/ Selector Card	Each	17	\$ 15,615.69	\$ 1,180.96	\$ 20,076.29
71035	SPV.0060.02	Opticom Confirmation Light Assembly	Each	17	\$ 707.71	\$ 209.86	\$ 3,567.55
71036C	SPV.0060.03	30"x36" Blankout Overhead Sign	Each	2	\$ 4,800.00	\$ 2,858.29	\$ 5,716.57
71037	SPV.0060.04	Wireless Radio Interconnect Unit	Each	2	\$ 8,764.00	\$ 5,476.35	\$ 10,952.70
71040	SPV.0060.05	Vehicular Microwave Detection System	Each	14	\$ 58,800.00	\$ 4,874.35	\$ 68,240.84
71052	SPV.0060.06	Solid State Controller Installed	Each	4	\$ 37,980.28	\$ 13,181.75	\$ 52,727.01
71053	SPV.0060.07	ATC Controller Upgrade	Each	1	\$ 3,101.00	\$ 4,149.23	\$ 4,149.23
71057	658.0215	Backplates Signal Face 3 Section 12-inch	Each	39	\$ 1,404.00	\$ 63.81	\$ 2,488.55
71061	658.0115	Traffic Signal Face 4-12 Inch Vertical	Each	15	\$ 4,834.95	\$ 588.09	\$ 8,821.39
71062	658.0110	Traffic Signal Face 3-12 Inch Vertical	Each	83	\$ 20,627.99	\$ 461.87	\$ 38,335.58
71065	658.0500	Pedestrian Push Buttons	Each	43	\$ 1,362.24	\$ 135.81	\$ 5,839.69
71066	658.0412	Pedestrian Signal Face 12-Inch	Each	38	\$ 5,046.78	\$ 291.08	\$ 11,061.19
71067	SPV.0060.08	Pedestrian Countdown Signal Face 12-Inch	Each	38	\$ 5,046.78	\$ 291.08	\$ 11,061.19
71081	658.1110	Programmable Traffic Signal Face 3-12 Vertical	Each	3	\$ 3,123.99	\$ 1,403.67	\$ 4,211.00
71142	652.0605	Conduit Special 2-Inch	LF	95	\$ 5.70	\$ 7.57	\$ 719.59
71143	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	55	\$ 3.30	\$ 8.14	\$ 447.67
71154	655.0900	Traffic Signal EVP Detector Cable	LF	3,210	\$ 1,316.10	\$ 3.11	\$ 9,998.30
71156	SPV.0090.01	Cable Traffic Signal Loop Lead-In	LF	2,170	\$ 651.00	\$ 3.00	\$ 6,505.16
71157	655.0410	Communication Cable Installed in Conduit	LF	850	\$ 478.64	\$ 2.87	\$ 2,438.55
71158	SPV.0090.02	Cable Type UF 3 #12	LF	25	\$ 16.50	\$ 2.90	\$ 72.51
71161	SPV.0090.03	Cable Service 3 #4/1 #8 LTP	LF	2,725	\$ 7,112.25	\$ 4.94	\$ 13,461.40
71170	655.0250	Cable Traffic Signal 9-14 AWG	LF	1,135	\$ 873.95	\$ 3.50	\$ 3,970.23
71171	655.0260	Cable Traffic Signal 12-14 AWG	LF	2,905	\$ 2,817.85	\$ 3.71	\$ 10,778.61
71172	SPV.0090.04	Cable Traffic Signal 17-14 AWG	LF	4,765	\$ 7,052.20	\$ 4.25	\$ 20,263.54
71173	SPV.0090.05	Cable Traffic Signal 20-14 AWG	LF	530	\$ 752.60	\$ 4.19	\$ 2,219.99
71174	SPV.0090.06	Cable Traffic Signal Interconnect 9-14 AWG	LF	3,845	\$ 2,960.65	\$ 6.18	\$ 23,747.90
71176	674.0300	Remove Cable	LF	5,925	\$ -	\$ 1.02	\$ 6,050.68
71177	SPV.0060.09	Install Secondary Riser	Each	1	\$ 6.50	\$ 109.03	\$ 109.03
71178	SPV.0060.10	Remove Secondary Riser	Each	3	\$ -	\$ 102.12	\$ 306.36
71190	SPV.0060.11	Mast Arm Fabricated	Each	5	\$ 295.25	\$ 1,380.50	\$ 6,902.52
71191	SPV.0060.12	Mast Arm Pole	Each	4	\$ 6,508.44	\$ 2,271.28	\$ 9,085.12
71195	SPV.0060.13	Signal Standard 5'	Each	2	\$ 1,061.76	\$ 1,010.77	\$ 2,021.54
71197	SPV.0060.14	Signal Standard 14'	Each	36	\$ 24,355.08	\$ 1,165.64	\$ 41,963.05
71198	SPV.0060.15	Signal Standard 1' Extension	Each	3	\$ 142.11	\$ 101.44	\$ 304.31
71200	SPV.0060.16	Signal Standard 3' Extension	Each	7	\$ 601.79	\$ 142.48	\$ 997.33
71700	SPV.0060.17	Signal Housing Relocated	Each	2	\$ -	\$ 306.37	\$ 612.73
73288	638.2602	Removing Signs Type II	Each	340	\$ -	\$ 5.85	\$ 1,987.49
73289	638.3000	Removing Small Sign Supports	Each	74	\$ -	\$ 9.74	\$ 720.97
73291	SPV.0060.18	Socket 3' RSP	Each	74	\$ 1,991.34	\$ 48.10	\$ 3,559.30
73292	SPV.0060.19	Socket (Concrete Install)	Each	27	\$ 398.25	\$ 44.91	\$ 1,212.62
73295	SPV.0060.20	Sign Pipe 2"	Each	96	\$ 1,895.04	\$ 24.89	\$ 2,389.11
73296	SPV.0060.21	Pushbutton Pipe Standard Pipe 2"x5'	Each	5	\$ 98.70	\$ 24.89	\$ 124.45
73299	637.2220	Signs Type II Reflective SH	SF	1,308	\$ 7,991.88	\$ 13.26	\$ 17,346.24
90005-71	SPV.0060.22	Remove Concrete, Wood, or Aluminum Pole	Each	30	\$ -	\$ 366.08	\$ 10,982.39

LFA CONSTRUCTION COST \$ 448,547.47
STATE REVIEW COST \$ 35,000.00
TOTAL PROJECT COST \$ 483,547.47

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

APPROVED BY:

A handwritten signature in black ink, appearing to read "Robert W. Bryson". The signature is fluid and cursive, with a large initial "R" and "B".

ROBERT W. BRYSON
CHIEF TRAFFIC AND LIGHTING ENGINEER

TRANSPORTATION SECTION
TRAFFIC AND LIGHTING DESIGN UNIT
JOSEPH C. BLAKEMAN
REVISED: MARCH 11, 2014