

PROJECT UNIT COST ANALYSIS

ESTIMATE OF QUANTITIES

PROJECT ID 1300-13-90

IH 794 MILWAUKEE RIVER TO CARFERRY DRIVE - TRAFFIC SIGNALS

IH 794

MILWAUKEE COUNTY

Item No.	Std. Bid Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
71030	204.0155	Removing Concrete Sidewalk	SY	29	\$ -	\$ 6.54	\$ 189.76
71032	602.0410	Concrete Sidewalk 5-Inch	SF	84	\$ 103.32	\$ 7.86	\$ 660.33
71033	SPV.0060.01	Opticom 711 Detector w/ Selector Card	Each	3	\$ 3,842.64	\$ 1,592.13	\$ 4,776.40
71035	SPV.0060.02	Opticom Confirmation Light Assembly	Each	3	\$ 124.89	\$ 218.30	\$ 654.91
71040	SPV.0105.01	Vehicular Microwave Detection System	LS	3	\$ 12,600.00	\$ 6,258.87	\$ 18,776.61
71053	SPV.0060.03	ATC Controller Upgrade	Each	1	\$ 3,101.00	\$ 4,195.92	\$ 4,195.92
71055	658.0225	Backplates Signal Face 5 Section 12-inch	Each	4	\$ 220.00	\$ 86.41	\$ 345.65
71057	658.0215	Backplates Signal Face 3 Section 12-inch	Each	13	\$ 468.00	\$ 66.06	\$ 858.74
71060	658.0120	Traffic Signal Face 5-12 Inch Vertical	Each	14	\$ 5,501.30	\$ 722.74	\$ 10,118.32
71061	658.0115	Traffic Signal Face 4-12 Inch Vertical	Each	4	\$ 1,289.32	\$ 599.13	\$ 2,396.52
71062	658.0110	Traffic Signal Face 3-12 Inch Vertical	Each	72	\$ 17,894.16	\$ 472.12	\$ 33,992.40
71064GAL	SPV.0060.04	12" Green Arrow LED Module	Each	4	\$ 150.42	\$ 83.72	\$ 334.88
71065	658.0500	Pedestrian Push Buttons	Each	6	\$ 190.08	\$ 143.90	\$ 863.41
71066	658.0412	Pedestrian Signal Face 12-Inch	Each	23	\$ 3,054.63	\$ 300.20	\$ 6,904.49
71067	SPV.0060.05	Pedestrian Countdown Signal Face 12-Inch	Each	23	\$ 3,054.63	\$ 300.20	\$ 6,904.49
71079	658.1120	Programmable Traffic Signal Face 5-12 Vertical	Each	2	\$ 6,161.40	\$ 3,561.21	\$ 7,122.41
71143	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	135	\$ 8.10	\$ 9.57	\$ 1,292.12
71145	652.0230	Conduit Rigid Nonmetallic Schedule 40 2 1/2-Inch	LF	5	\$ 0.20	\$ 9.55	\$ 47.75
71146	652.0615	Conduit Special 3-Inch	LF	115	\$ 4.60	\$ 17.16	\$ 1,972.86
71147	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	630	\$ 12.60	\$ 9.53	\$ 6,002.84
71154	655.0900	Traffic Signal EVP Detector Cable	LF	505	\$ 207.05	\$ 3.48	\$ 1,755.13
71155	652.0900.S	Loop Detector Slots	LF	90	\$ 242.10	\$ 8.95	\$ 805.70
71156	SPV.0090.01	Cable Traffic Signal Loop Lead-In	LF	650	\$ 195.00	\$ 3.36	\$ 2,181.69
71161	SPV.0090.02	Cable Service 3 #4/1 #8 LTP	LF	160	\$ 417.60	\$ 5.08	\$ 813.35
71170	655.0250	Cable Traffic Signal 9-14 AWG	LF	1675	\$ 1,289.75	\$ 3.86	\$ 6,466.08
71171	655.0260	Cable Traffic Signal 12-14 AWG	LF	2700	\$ 2,619.00	\$ 4.07	\$ 11,000.48
71172	SPV.0090.03	Cable Traffic Signal 17-14 AWG	LF	2660	\$ 3,936.80	\$ 4.62	\$ 12,290.84
71173	SPV.0090.04	Cable Traffic Signal 20-14 AWG	LF	1385	\$ 1,966.70	\$ 4.56	\$ 6,311.12
71174	SPV.0090.05	Cable Traffic Signal Interconnect 9-14 AWG	LF	350	\$ 269.50	\$ 6.90	\$ 2,413.31
71176	674.0300	Remove Cable	LF	3300	\$ -	\$ 1.10	\$ 3,628.78
71177	SPV.0060.06	Install Secondary Riser	Each	14	\$ 91.00	\$ 116.93	\$ 1,636.98
71178	SPV.0060.07	Remove Secondary Riser	Each	14	\$ -	\$ 109.96	\$ 1,539.49
71188	SPV.0060.08	Polymer Concrete Vault 13"x24"x18"	Each	16	\$ 3,596.96	\$ 377.66	\$ 6,042.50
71189	SPV.0060.09	Polymer Concrete Vault 17"x30"x18"	Each	2	\$ 538.46	\$ 425.25	\$ 850.49
71190	SPV.0060.10	Mast Arm Fabricated	Each	4	\$ 236.20	\$ 1,394.06	\$ 5,576.25
71191	SPV.0060.11	Mast Arm Pole	Each	4	\$ 6,508.44	\$ 2,293.68	\$ 9,174.73
71195	SPV.0060.12	Signal Standard 5'	Each	1	\$ 530.88	\$ 1,035.46	\$ 1,035.46
71197	SPV.0060.13	Signal Standard 13'	Each	7	\$ 4,735.71	\$ 1,191.49	\$ 8,340.40
71197B	SPV.0060.14	Signal Standard 13' Black	Each	30	\$ 20,295.90	\$ 1,291.03	\$ 38,731.04
71198	SPV.0060.15	Signal Standard 1' Extension	Each	13	\$ 615.81	\$ 105.73	\$ 1,374.50
71198B	SPV.0060.16	Signal Standard 1' Extension Black	Each	26	\$ 1,231.62	\$ 155.51	\$ 4,043.15
71199	SPV.0060.17	Signal Standard 2' Extension	Each	5	\$ 429.85	\$ 147.09	\$ 735.43
71199B	SPV.0060.18	Signal Standard 2' Extension Black	Each	6	\$ 515.82	\$ 196.86	\$ 1,181.15
71700	SPV.0060.19	Signal Housing Relocated	Each	19	\$ -	\$ 329.89	\$ 6,267.91
71724	SPV.0060.20	Solid State Controller Relocated	Each	1	\$ -	\$ 411.26	\$ 411.26
71826	SPV.0060.21	Signal Standard Relocated	Each	3	\$ -	\$ 439.85	\$ 1,319.56
71828	SPV.0060.22	Signal Standard Extension Relocated	Each	2	\$ -	\$ 54.98	\$ 109.96
90005-21	SPV.0090.06	3 #6 Aluminum Triplex Wire Overhead Wire	LF	120	\$ 69.60	\$ 1.82	\$ 218.62
90005-24	SPV.0060.23	Install Wood Pole (35', 40', and 45')	Each	14	\$ 318.78	\$ 552.41	\$ 7,733.67
90005-47	SPV.0060.24	Remove Concrete, Wood, and Aluminum	Each	30	\$ -	\$ 379.48	\$ 11,384.45
90005-70	SPV.0060.25	Remove Bracket and Fixture Complete	Each	28	\$ -	\$ 54.98	\$ 1,539.49

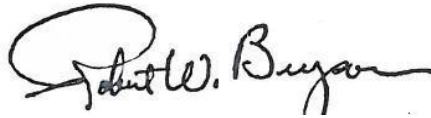
TOTAL CITY COST \$ 265,323.78
TOTAL EXCLUDED COSTS \$ 108,639.82

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MILWAUKEE COUNTY

APPROVED BY:



ROBERT W. BRYSON
CHIEF TRAFFIC AND LIGHTING ENGINEER

TRANSPORTATION SECTION
TRAFFIC AND LIGHTING DESIGN UNIT
JOSEPH C. BLAKEMAN
REVISED: MARCH 11, 2013

* 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.