

## PROJECT UNIT COST ANALYSIS

### ESTIMATE OF QUANTITIES

PROJECT ID 1693-35-93  
 INSTALLATION OF TRANSIT PRIORITY - EXPRESS BUS/TROLLEY CIRCULATOR ROUTES  
 VARIOUS HIGHWAYS  
 MILWAUKEE COUNTY

Item No.	Std. Bid Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
71031	SPV.0060.01	Opticom GPS Receiver Unit	Each	23	\$ 68,540.00	\$ 3,484.44	\$ 80,142.03
71032B	SPV.0060.02	Opticom Phase Selector Card 4 Channel	Each	23	\$ 63,273.00	\$ 3,141.66	\$ 72,258.22
71052	SPV.0060.03	ATC Controller and Cabinet Installed	Each	23	\$ 308,098.34	\$ 15,614.00	\$ 359,122.07
71101	678.0200	Fiber Optic Splice Enclosure	Each	23	\$ 8,625.00	\$ 538.72	\$ 12,390.56
71102	678.0300	Fiber Optic Splice	Each	23	\$ -	\$ 75.52	\$ 1,737.02
71103	SPV.0060.04	Fiber Optic Patch Panel	Each	23	\$ 13,800.00	\$ 907.04	\$ 20,861.92
71104	SPV.0060.05	Ethernet Switch	Each	23	\$ 16,082.75	\$ 850.71	\$ 19,566.29
71110	SPV.0060.06	Central Software Installation	Each	1	\$ 150,000.00	\$ 171,874.25	\$ 171,874.25
71154	655.0900	Traffic Signal EVP Detector Cable	LF	2,900	\$ 1,189.00	\$ 3.40	\$ 9,852.77

<b>LFA CONSTRUCTION COST</b>	<b>\$ 747,805.13</b>
<b>LFA EXCLUDED COST</b>	<b>\$ 629,608.09</b>
<b>STATE REVIEW COST (15%)</b>	<b>\$ 112,170.77</b>
<b>TOTAL PROJECT COST</b>	<b>\$ 859,975.90</b>

APPROVED BY:



JOSEPH C. BLAKEMAN, PE  
 TRAFFIC ENGINEER SENIOR

TRANSPORTATION SECTION  
 TRAFFIC AND LIGHTING DESIGN UNIT  
 SCOTT C. REINBACHER  
 REVISED: OCTOBER 10, 2016

\* 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.