

**PROJECT UNIT COST ANALYSIS**

ESTIMATE OF QUANTITIES

PROJECT ID 1060-36-93  
Zoo Interchange Construction Phase 2  
Street Lighting Phase 4

West Bluemound Road, North 94th Street to North 97th Street  
North 95th Street West St. Paul Street to West Wisconsin Avenue

South 92nd Street, West Adler Street to West Chester Street  
West Adler Street, South 95th Street to South 84th Street  
West Chester Street, West Dixon Street to a point west of West Chester Street Cul de Sac

South 84th Street, West Addler Street to West Honey Creek Parkway  
West O'Connor Street, South 70th Street to South 73rd Street, South 78th Street to South 84th Street  
West Kearney Street, North 69th Street to North 72nd Street, North 78th Street to North 84th Street

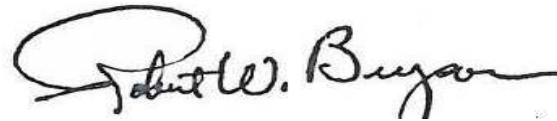
MILWAUKEE COUNTY

Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
90005-5	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5-INCH *	LF	4580	\$ 3,582.88	\$ 3.66	\$ 16,762.80
90005-7	CONDUIT SPECIAL 2.5-INCH *	LF	1570	\$ 2,063.75	\$ 14.49	\$ 22,749.30
90005-9	METAL PEDESTAL CABINET (4-INCH x 4-INCH x 36-INCH)	EACH	104	\$ 5,079.36	\$ 97.28	\$ 10,117.12
90005-10	JUNCTION BOX 4"X4"X4" CAST IRON (WITH STEEL CHECKERED PLATE COVER)	EACH	4	\$ 1,107.56	\$ 312.40	\$ 1,249.60
90005-11	RETANGULUAR POLYMER CONCRETE VAULT (13-INCH x 24-INCH x 18-INCH)	EACH	23	\$ 5,786.46	\$ 387.16	\$ 8,904.68
90005-13	CABLE TYPE 3#2/1#8 LTP (UNDERGROUND)	LF	10255	\$ 42,580.11	\$ 6.35	\$ 65,119.25
90005-14	CABLE TYPE 3#4/1#8 LTP (UNDERGROUND)	LF	1760	\$ 4,906.01	\$ 4.98	\$ 8,764.80
90005-15	CABLE TYPE 3#6/1#8 LTP (UNDERGROUND)	LF	4260	\$ 8,107.76	\$ 4.10	\$ 17,466.00
90005-16	CABLE TYPE 3#8/1#8 LTP (UNDERGROUND)	LF	4960	\$ 6,570.15	\$ 3.52	\$ 17,459.20
90005-18	CABLE TYPE UF 3#12 AWG GROUNDED *	LF	360	\$ 233.21	\$ 2.84	\$ 1,022.40
90005-24	CABLE TYPE 2#2/1#4 ALUMINUM TRIPLEX WIRE (OVERHEAD)	LF	510	\$ 223.27	\$ 1.41	\$ 719.10
90005-25	CABLE TYPE 2#4/1#6 ALUMINUM TRIPLEX WIRE (OVERHEAD)	LF	1960	\$ 1,566.31	\$ 1.77	\$ 3,469.20
90005-26	CABLE TYPE 3#6 ALUMINUM TRIPLEX WIRE (OVERHEAD)	LF	7620	\$ 5,340.75	\$ 1.67	\$ 12,725.40
90005-28	REMOVE CABLE (OVERHEAD)	LF	12045	\$ 776.90	\$ 1.03	\$ 12,406.35
90005-29	SPLICE (HAND HOLE OR PEDESTAL)	EACH	132	\$ 3,653.28	\$ 95.15	\$ 12,559.80
90005-30	SECONDARY SPLICE	EACH	22	\$ 283.88	\$ 125.36	\$ 2,757.92
90005-38	INSTALLATION OF PRIMARY / SECONDARY RISER	EACH	27	\$ 3,903.95	\$ 241.47	\$ 6,519.69
90005-39	REMOVAL OF PRIMARY / SECONDARY RISER	EACH	36	\$ 232.20	\$ 103.33	\$ 3,719.88
90005-40	CONCRETE BASES (22" DIA. X 36" HIGH PRECAST) WITH 11" DIA. BOLT CIRCLE	EACH	4	\$ 1,642.92	\$ 901.15	\$ 3,604.60
90005-44	INSTALL POLES (WOOD - 35 FEET, WOOD 40 FEET, WOOD 45 FEET)	EACH	14	\$ 758.16	\$ 544.03	\$ 7,616.42
90005-45	INSTALL POLES (A21 GRAY CONCRETE, DIRECT BURY)	EACH	25	\$ 19,422.86	\$ 1,038.92	\$ 25,973.00
90005-46	INSTALL POLES (A26 GRAY CONCRETE, DIRECT BURY)	EACH	41	\$ 31,920.17	\$ 1,040.55	\$ 42,662.55
90005-47	INSTALL POLES (A31 GRAY CONCRETE, DIRECT BURY)	EACH	28	\$ 25,340.70	\$ 1,167.03	\$ 32,676.84
90005-57	INSTALL POLES (31 FT. ALUMINUM, DIRECT BURY)	EACH	5	\$ 3,154.66	\$ 892.94	\$ 4,464.70
90005-58	INSTALL POLES (14.5 FT. ALUMINUM, BOLT DOWN)	EACH	4	\$ 1,460.28	\$ 627.07	\$ 2,508.28
90005-60	INSTALL POLES (30 FT. ALUMINUM, BOLT DOWN)	EACH	12	\$ 6,971.45	\$ 842.96	\$ 10,115.52
90005-71	REMOVE POLES (ALUMINUM, CONCRETE, STEEL, AND WOOD)	EACH	116	\$ 1,836.28	\$ 376.63	\$ 43,689.08
90005-84	INSTALL A21-A26 MOUNTING CLAMP (SINGLE BRACKET)	EACH	51	\$ 2,435.14	\$ 71.97	\$ 3,670.47
90005-85	INSTALL A21-A26 MOUNTING CLAMP (DOUBLE BRACKET)	EACH	13	\$ 712.97	\$ 79.07	\$ 1,027.91
90005-86	INSTALL A31 MOUNTING CLAMP (SINGLE BRACKET)	EACH	14	\$ 501.57	\$ 60.05	\$ 840.70
90005-87	INSTALL A31 MOUNTING CLAMP (DOUBLE BRACKET)	EACH	8	\$ 453.68	\$ 80.93	\$ 647.44
90005-92	LUMINAIRE ARM SINGLE MEMBER (6 FT. LONG ALUMINUM UPSWEEP WOOD POLE MOUNTED BRACKET)	EACH	13	\$ 1,199.88	\$ 164.96	\$ 2,144.48
90005-93	LUMINAIRE ARM SINGLE MEMBER (6 FT. LONG, 2 INCH DIA. ALUMINUM MITCHELL UPSWEEP BRACKET)	EACH	101	\$ 5,523.47	\$ 103.13	\$ 10,416.13

Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
90005-94	LUMINAIRE ARM SINGLE MEMBER (SHARP CUT-OFF BRACKET)	EACH	8	\$ 262.31	\$ 81.23	\$ 649.84
90005-102	LUMINAIRE UNDERDECK (70W/240V FIXTURE WITH 70W HPS LAMP)	EACH	8	\$ 1,893.99	\$ 382.07	\$ 3,056.56
90005-105	LUMINAIRES STREET LIGHTING (100W/240V SLIPFIT FIXTURE, TYPE 2 OPTICS, & 100W HPS LAMP)	EACH	22	\$ 2,711.84	\$ 195.93	\$ 4,310.46
90005-109	LUMINAIRES STREET LIGHTING (150W/240V COBRA FIXTURE & 150 WATT HPS LAMP)	EACH	60	\$ 6,875.17	\$ 187.25	\$ 11,235.00
90005-110	LUMINAIRES STREET LIGHTING (250W/240V COBRA FIXTURE & 250 WATT HPS LAMP)	EACH	44	\$ 5,526.94	\$ 198.27	\$ 8,723.88
90005-113	REMOVE LUMINAIRE COMPLETE	EACH	50	\$ 80.63	\$ 25.83	\$ 1,291.50
90005-124	200 AMP 240/480 VOLT ELECTRICAL PEDESTAL SERVICE	LS	1	\$ 3,113.16	\$ 3,778.50	\$ 3,778.50
90005-125	200 AMP 240/480 VOLT POLE MOUNT SERVICE CABINET	LS	1	\$ 3,445.43	\$ 4,085.31	\$ 4,085.31
90005-133	LUMINAIRES DECORATIVE (70W/240V SHARP CUT-OFF FIXTURE WITH 70W HPS LAMP)	EACH	8	\$ 3,161.23	\$ 540.48	\$ 4,323.84
	WE ENERGIES SERVICE SOUTH 92ND STREET, SOUTH OF WEST ADLER STREET	EACH	1	\$ 7,000.00		\$ 7,000.00
	WE ENERGIES SERVICE WEST BULEMOUND ROAD WEST OF NORTH 98TH STREET.	EACH	1	\$ 3,000.00		\$ 3,000.00

**TOTAL CITY COST**      **\$468,005.50**  
**TOTAL EXCLUDED COSTS**      **\$236,402.68**

APPROVED BY:



ROBERT W. BRYSON  
CHIEF TRAFFIC AND LIGHTING ENGINEER

TRANSPORTATION SECTION  
TRAFFIC AND LIGHTING DESIGN UNIT

THOMAS MANZKE  
REVISED: May 1, 2014

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.