

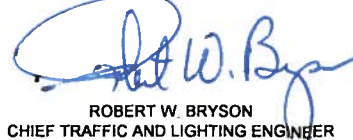
**PROJECT UNIT COST ANALYSIS**  
**ESTIMATE OF QUANTITIES**  
**PROJECT ID 1228-25-97**  
**IH 43 - WEST HOWARD AVENUE TO THE VALLEY BRIDGE**  
**IH 43/94**  
**MILWAUKEE COUNTY**

Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
90005-5	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5-INCH *	LF	1860	\$ 1,455.06	\$ 3.66	\$ 6,807.60
90005-7	CONDUIT SPECIAL 2.5-INCH *	LF	320	\$ 420.64	\$ 14.49	\$ 4,636.80
90005-9	METAL PEDESTAL CABINET (4-INCH x 4-INCH x 36-INCH)	EACH	28	\$ 1,367.52	\$ 97.28	\$ 2,723.84
90005-11	RETANGULAR POLYMER CONCRETE VAULT (13-INCH x 24-INCH x 18-INCH)	EACH	10	\$ 2,515.85	\$ 387.16	\$ 3,871.60
90005-13	CABLE TYPE 3#2/1#8 LTP (UNDERGROUND)	LF	2850	\$ 11,833.58	\$ 6.35	\$ 18,097.50
90005-14	CABLE TYPE 3#4/1#8 LTP (UNDERGROUND)	LF	3705	\$ 10,327.71	\$ 4.98	\$ 18,450.90
90005-15	CABLE TYPE 3#6/1#8 LTP (UNDERGROUND)	LF	1770	\$ 3,368.72	\$ 4.10	\$ 7,257.00
90005-16	CABLE TYPE 3#8/1#8 LTP (UNDERGROUND)	LF	5930	\$ 7,855.05	\$ 3.52	\$ 20,873.60
90005-18	CABLE TYPE UF 3#12 AWG GROUNDED *	LF	270	\$ 174.90	\$ 2.84	\$ 766.80
90005-20	CABLE TYPE UF 2#12 AWG *	LF	940	\$ 475.50	\$ 2.70	\$ 2,538.00
90005-22	CABLE TYPE 1#8 AWG CONCENTRIC (UNDERGROUND)	LF	4730	\$ 9,002.28	\$ 2.87	\$ 13,575.10
90005-29	SPLICE (HAND HOLE OR PEDESTAL)	EACH	114	\$ 3,155.11	\$ 95.15	\$ 10,847.10
90005-30	SECONDARY SPLICE	EACH	5	\$ 64.52	\$ 125.36	\$ 626.80
90005-31	PRIMARY SPLICE (1#8)	EACH	8	\$ 234.11	\$ 119.23	\$ 953.84
90005-36	INSTALL GROUND & TEST STATION	EACH	1	\$ 138.33	\$ 480.62	\$ 480.62
90005-46	INSTALL POLES (A26 GRAY CONCRETE, DIRECT BURY)	EACH	2	\$ 1,557.08	\$ 1,040.55	\$ 2,081.10
90005-47	INSTALL POLES (A31 GRAY CONCRETE, DIRECT BURY)	EACH	6	\$ 5,430.15	\$ 1,167.03	\$ 7,002.18
90005-58	INSTALL POLES (31 FT. ALUMINUM, DIRECT BURY)	EACH	5	\$ 3,154.66	\$ 892.94	\$ 4,464.70
90005-60	INSTALL POLES (25 FT. ALUMINUM, BOLT DOWN)	EACH	24	\$ 14,656.87	\$ 872.71	\$ 20,945.04
90005-61	INSTALL POLES (30 FT. ALUMINUM, BOLT DOWN)	EACH	4	\$ 2,323.82	\$ 842.96	\$ 3,371.84
90005-75	INSTALL BALLAST (70 WATT DOUBLE COIL)	EACH	1	\$ 372.47	\$ 619.88	\$ 619.88
90005-80	INSTALL BALLAST (150 WATT SINGLE COIL)	EACH	10	\$ 2,697.62	\$ 517.17	\$ 5,171.70
90005-81	INSTALL BALLAST (150 WATT DOUBLE COIL)	EACH	4	\$ 1,920.22	\$ 727.46	\$ 2,909.84
90005-82	INSTALL BALLAST (250 WATT SINGLE COIL)	EACH	2	\$ 558.48	\$ 526.66	\$ 1,053.32
90005-85	INSTALL A21-A26 MOUNTING CLAMP (SINGLE BRACKET)	EACH	2	\$ 95.50	\$ 71.98	\$ 143.96
90005-87	INSTALL A31 MOUNTING CLAMP (SINGLE BRACKET)	EACH	8	\$ 286.61	\$ 60.05	\$ 480.40
90005-88	INSTALL A31 MOUNTING CLAMP (DOUBLE BRACKET)	EACH	1	\$ 56.71	\$ 80.95	\$ 80.95
90005-94	LUMINAIRE ARM SINGLE MEMBER (6 FT. LONG, 2 INCH DIA. ALUMINUM MITCHELL UPSWEEP BRACKET)	EACH	71	\$ 3,882.83	\$ 103.13	\$ 7,322.23
90005-104	LUMINAIRE MOUNTING PLATE (1/4" GALVANIZED)	EACH	20	\$ 1,098.30	\$ 69.45	\$ 1,389.00
90005-106	LUMINAIRES STREET LIGHTING (100W/240V SLIPFIT FIXTURE, TYPE 2 OPTICS, & 100W HPS LAMP)	EACH	5	\$ 616.33	\$ 195.93	\$ 979.65
90005-108	LUMINAIRES STREET LIGHTING (WITHOUT BALLAST SLIPFIT FIXTURE, 55V IGNITOR, TYPE 2 OPTICS, & 100W HPS LAMP)	EACH	25	\$ 3,429.06	\$ 209.82	\$ 5,245.50
90005-110	LUMINAIRES STREET LIGHTING (150W/240V COBRA FIXTURE & 150 WATT HPS LAMP)	EACH	47	\$ 5,385.54	\$ 187.25	\$ 8,800.75
90005-111	LUMINAIRES STREET LIGHTING (250W/240V COBRA FIXTURE & 250 WATT HPS LAMP)	EACH	41	\$ 5,150.11	\$ 198.27	\$ 8,129.07
90005-112	LUMINAIRES STREET LIGHTING (WITHOUT BALLAST COBRA FIXTURE, 55V IGNITOR & 150W HPS LAMP)	EACH	5	\$ 614.80	\$ 195.62	\$ 978.10
90005-113	LUMINAIRES STREET LIGHTING (WITHOUT BALLAST COBRA FIXTURE, 100V IGNITOR & 250W HPS LAMP)	EACH	2	\$ 224.24	\$ 184.79	\$ 369.58
90005-132	CONCRETE SIDEWALK 5-INCH *	SQ.FT.	30	\$ 56.09	\$ 23.22	\$ 696.60

**TOTAL CITY COST      \$194,742.49**

**TOTAL EXCLUDED COSTS      \$105,956.37**

APPROVED BY:

  
**ROBERT W. BRYSON**  
**CHIEF TRAFFIC AND LIGHTING ENGINEER**

TRANSPORTATION SECTION  
TRAFFIC AND LIGHTING DESIGN UNIT

NAME  
REVISED 06-23-14

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.