

PROJECT UNIT COST ANALYSIS

ESTIMATE OF QUANTITIES

PROJECT ID 2265-08-92
SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD
STH 241
MILWAUKEE COUNTY

Item No.	Std. Bid Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
90005-9	SPV.0060.01	METAL PEDESTAL CABINET (4-INCH x 4-INCH x 36-INCH)	EACH	138	\$ 6,739.93	\$ 97.28	\$ 13,424.64
90005-13	SPV.0090.01	CABLE TYPE 3#2/1#8 LTP (UNDERGROUND)	LF	24000	\$ 99,651.17	\$ 6.35	\$ 152,400.00
90005-16	SPV.0090.02	CABLE TYPE 3#8/1#8 LTP (UNDERGROUND)	LF	8000	\$ 10,597.03	\$ 3.52	\$ 28,160.00
90005-22	SPV.0090.03	CABLE TYPE 1#8 AWG CONCENTRIC (UNDERGROUND)	LF	1600	\$ 3,045.17	\$ 2.87	\$ 4,592.00
90005-29	SPV.0060.02	SPLICE (HAND HOLE OR PEDESTAL)	EACH	113	\$ 3,127.43	\$ 95.15	\$ 10,751.95
90005-105	SPV.0060.03	LUMINAIRES STREET LIGHTING (100W/240V SLIPFIT FIXTURE, TYPE 2 OPTICS, & 100W HPS LAMP)	EACH	2	\$ 246.54	\$ 195.94	\$ 391.88
90005-109	659.0115	LUMINAIRES STREET LIGHTING (150W/240V COBRA FIXTURE & 150 WATT HPS LAMP)	EACH	4	\$ 458.34	\$ 187.25	\$ 749.00
90005-110	659.0125	LUMINAIRES STREET LIGHTING (250W/240V COBRA FIXTURE & 250 WATT HPS LAMP)	EACH	132	\$ 16,580.82	\$ 198.27	\$ 26,171.64
90005-113	SPV.0060.04	REMOVE LUMINAIRE COMPLETE	EACH	138	\$ 222.53	\$ 25.83	\$ 3,564.54
90005-124	661.0400	LIGHTING CONTROL CABINET (200 AMP 240/480 VOLT ELECTRICAL PEDESTAL SERVICE)	EACH	2	\$ 6,226.29	\$ 3,778.49	\$ 7,556.98
90005-128	SPV.0060.05	CONCRETE CONTROL CABINET BASE	EACH	2	\$ 499.55	\$ 1,132.76	\$ 2,265.52
Utility	SPV.0060.06	WE ENERGIES TO INSTALL ELECTRICAL SERVICE TO STREET LIGHTING SERVICE CABINET	EACH	2	\$ 10,000.00	\$ 10,000.00	\$ 20,000.00

TOTAL LFA COST \$270,028.15
LFA EXCLUDED COSTS \$157,394.80
STATE REVIEW COST (8%) \$21,602.25
TOTAL PROJECT COST \$291,630.40

APPROVED BY:



ROBERT W. BRYSON
CHIEF TRAFFIC AND LIGHTING ENGINEER

TRANSPORTATION SECTION
TRAFFIC AND LIGHTING DESIGN UNIT

ENG-KIE LEE
REVISED: June 12, 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.

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD Highway: STH 241 County: Milwaukee						
Item Number: 90005-9 Item: METAL PEDESTAL CABINET (4-INCH x 4-INCH x 36-INCH) Quantity: 138 Unit: EACH						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Pickup	0.500	69.000	\$2.20	\$	151.80
Total Machinery Charges					\$	151.80
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.500	69.000	\$29.55	\$	2,038.95
	Electrical Worker	0.500	69.000	\$22.70	\$	1,566.30
Sub-Total Labor Cost					\$	3,605.25
Indirect Cost factor @					6.33%	\$ 228.21
Fringe Benefit Rate @					79.09%	\$ 2,851.39
Total Labor Cost					\$	6,684.85
Material Costs:	Item	Amount	Price	Total		
	metal pedestal housing (4"x4"x36")	138	\$43.73	\$	6,034.74	
Sub-Total Material Cost					\$	6,034.74
Indirect Cost Factor @					9.17%	\$ 553.39
Total Material Cost					\$	6,588.13
TOTAL COST					\$	13,424.78
Total Cost Per Unit					\$	97.28
ROUNDED TOTAL COST					\$	13,424.64
Total Excluded Cost					\$	6,739.93

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD Highway: STH 241 County: Milwaukee						
Item Number: 90005-13 Item: CABLE TYPE 3#2/1#8 LTP (UNDERGROUND) Quantity: 24000 Unit: LF						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Dump Truck (Med. & Lrg.)	0.009	216.000	\$4.94	\$	1,067.04
	Trailers (Pole & Cable)	0.009	216.000	\$0.32	\$	69.12
Total Machinery Charges					\$	1,136.16
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	0.009	216.000	\$31.05	\$	6,706.80
	Electrical Worker	0.009	216.000	\$22.70	\$	4,903.20
	Special Laborer Electrical Services	0.009	216.000	\$20.82	\$	4,497.12
	City Laborer Regular	0.009	216.000	\$18.97	\$	4,097.52
	City Laborer Regular	0.009	216.000	\$18.97	\$	4,097.52
	City Laborer Regular	0.009	216.000	\$18.97	\$	4,097.52
Sub-Total Labor Cost					\$	28,399.68
Indirect Cost factor @					6.33%	\$ 1,797.70
Fringe Benefit Rate @					79.09%	\$ 22,461.31
Total Labor Cost					\$	52,658.69
Material Costs:	Item	Amount	Price	Total		
	3#2/1#8 LTP cable - secondary	24000	\$3.76	\$	90,240.00	
Sub-Total Material Cost					\$	90,240.00
Indirect Cost Factor @					9.17%	\$ 8,275.01
Total Material Cost					\$	98,515.01
TOTAL COST					\$	152,309.86
Total Cost Per Unit					\$	6.35
ROUNDED TOTAL COST					\$	152,400.00
Total Excluded Cost					\$	99,651.17

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD Highway: STH 241 County: Milwaukee					
Item Number: 90005-16 Item: CABLE TYPE 3#8/1#8 LTP (UNDERGROUND) Quantity: 8000 Unit: LF					
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Dump Truck (Med. & Lrg.)	0.009	72.000	\$4.94	\$ 355.68
	Trailers (Pole & Cable)	0.009	72.000	\$0.32	\$ 23.04
	Total Machinery Charges				\$ 378.72
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic (crew chief)	0.009	72.000	\$31.05	\$ 2,235.60
	Electrical Worker	0.009	72.000	\$22.70	\$ 1,634.40
	Special Laborer Electrical Services	0.009	72.000	\$20.82	\$ 1,499.04
	City Laborer Regular	0.009	72.000	\$18.97	\$ 1,365.84
	City Laborer Regular	0.009	72.000	\$18.97	\$ 1,365.84
	City Laborer Regular	0.009	72.000	\$18.97	\$ 1,365.84
	Sub-Total Labor Cost				\$ 9,466.56
	Indirect Cost factor @ 6.33%				\$ 599.23
	Fringe Benefit Rate @ 79.09%				\$ 7,487.10
	Total Labor Cost				\$ 17,552.89
Material Costs:	Item	Amount	Price	Total	
	3#8/1#8 LTP cablr - secondary	8000	\$1.17	\$ 9,360.00	
	Sub-Total Material Cost				\$ 9,360.00
	Indirect Cost Factor @ 9.17%				\$ 858.31
	Total Material Cost				\$ 10,218.31
	TOTAL COST				\$ 28,149.92
	Total Cost Per Unit				\$ 3.52
	ROUNDED TOTAL COST				\$ 28,160.00
	Total Excluded Cost				\$ 10,597.03

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD Highway: STH 241 County: Milwaukee					
Item Number: 90005-22 Item: CABLE TYPE 1#8 AWG CONCENTRIC (UNDERGROUND) Quantity: 1600 Unit: LF					
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Dump Truck (Med. & Lrg.)	0.009	14.400	\$4.94	\$ 71.14
	Trailers (Pole & Cable)	0.009	14.400	\$0.32	\$ 4.61
	Total Machinery Charges				\$ 75.75
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	0.010	16.000	\$29.55	\$ 472.80
	Electrical Worker	0.010	16.000	\$22.70	\$ 363.20
	Sub-Total Labor Cost				\$ 836.00
	Indirect Cost factor @ 6.33%				\$ 52.92
	Fringe Benefit Rate @ 79.09%				\$ 661.19
	Total Labor Cost				\$ 1,550.11
Material Costs:	Item	Amount	Price	Total	
	1#8 concentric cable - primary	1600	\$1.70	\$ 2,720.00	
	Sub-Total Material Cost				\$ 2,720.00
	Indirect Cost Factor @ 9.17%				\$ 249.42
	Total Material Cost				\$ 2,969.42
	TOTAL COST				\$ 4,595.28
	Total Cost Per Unit				\$ 2.87
	ROUNDED TOTAL COST				\$ 4,592.00
	Total Excluded Cost				\$ 3,045.17

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD Highway: STH 241 County: Milwaukee						
Item Number: 90005-105 Item: LUMINAIRES STREET LIGHTING (100W/240V SLIPFIT FIXTURE, TYPE 2 OPTICS, & 100W HPS LAMP) Quantity: 2 Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.750	1.500	\$6.45	\$	9.68
	Total Machinery Charges					\$ 9.68
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.750	1.500	\$29.55	\$	44.33
	Electrical Worker	0.750	1.500	\$22.70	\$	34.05
Sub-Total Labor Cost					\$	78.38
Indirect Cost factor @					6.33%	\$ 4.96
Fringe Benefit Rate @					79.09%	\$ 61.99
Total Labor Cost					\$	145.33
Material Costs:	Item	Amount	Price	Total		
	slip fit head 100w/240v.	2	\$59.74	\$	119.48	
	type II optical assembly	2	\$38.50	\$	77.00	
100 watt H.P.S lamp					\$	20.48
Sub-Total Material Cost					\$	216.96
Indirect Cost Factor @					9.17%	\$ 19.90
Total Material Cost					\$	236.86
TOTAL COST					\$	391.87
Total Cost Per Unit					\$	195.94
ROUNDED TOTAL COST					\$	391.88
Total Excluded Cost					\$	246.54

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD Highway: STH 241 County: Milwaukee						
Item Number: 90005-109 Item: LUMINAIRES STREET LIGHTING (150W/240V COBRA FIXTURE & 150 WATT HPS LAMP) Quantity: 4 Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.750	3.000	\$6.45	\$	19.35
	Total Machinery Charges					\$ 19.35
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.750	3.000	\$29.55	\$	88.65
	Electrical Worker	0.750	3.000	\$22.70	\$	68.10
Sub-Total Labor Cost					\$	156.75
Indirect Cost factor @					6.33%	\$ 9.92
Fringe Benefit Rate @					79.09%	\$ 123.97
Total Labor Cost					\$	290.64
Material Costs:	Item	Amount	Price	Total		
	150 watt/240 volt cobra fixture	4	\$89.01	\$	356.04	
	150 watt H.P.S. lamp	4	\$11.52	\$	46.08	
Sub-Total Material Cost					\$	402.12
Indirect Cost Factor @					9.17%	\$ 36.87
Total Material Cost					\$	438.99
TOTAL COST					\$	748.98
Total Cost Per Unit					\$	187.25
ROUNDED TOTAL COST					\$	749.00
Total Excluded Cost					\$	458.34

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD
 Highway: STH 241
 County: Milwaukee

Item Number: **90005-110**
 Item: **LUMINAIRES STREET LIGHTING (250W/240V COBRA FIXTURE & 250 WATT HPS LAMP)**
 Quantity: 132
 Unit: EACH

Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Aerial/Boom Trucks	0.750	99.000	\$6.45	\$ 638.55
Total Machinery Charges					\$ 638.55
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	0.750	99.000	\$29.55	\$ 2,925.45
	Electrical Worker	0.750	99.000	\$22.70	\$ 2,247.30
Sub-Total Labor Cost					\$ 5,172.75
Indirect Cost factor @ 6.33%					\$ 327.44
Fringe Benefit Rate @ 79.09%					\$ 4,091.13
Total Labor Cost					\$ 9,591.32
Material Costs:	Item	Amount	Price	Total	
	250 watt/240 volt cobra fixture	132	\$100.70	\$ 13,292.40	
	250 watt H.P.S. lamp	132	\$9.93	\$ 1,310.76	
Sub-Total Material Cost				\$ 14,603.16	
Indirect Cost Factor @ 9.17%				\$ 1,339.11	
Total Material Cost				\$ 15,942.27	
TOTAL COST				\$ 26,172.14	
Total Cost Per Unit				\$ 198.27	
ROUNDED TOTAL COST				\$ 26,171.64	
Total Excluded Cost				\$ 16,580.82	

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD
 Highway: STH 241
 County: Milwaukee

Item Number: **90005-29**
 Item: **SPLICE (HAND HOLE OR PEDESTAL)**
 Quantity: 113
 Unit: EACH

Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Van [Heavy]	0.75	84.750	\$3.03	\$ 256.79
Total Machinery Charges					\$ 256.79
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	0.75	84.750	\$29.55	\$ 2,504.36
	City Laborer Regular	0.75	84.750	\$18.97	\$ 1,607.71
Sub-Total Labor Cost					\$ 4,112.07
Indirect Cost factor @ 6.33%					\$ 260.29
Fringe Benefit Rate @ 79.09%					\$ 3,252.24
Total Labor Cost					\$ 7,624.60
Material Costs:	Item	Amount	Price	Total	
	Contact aid, electrical	113.00	\$8.51	\$ 961.63	
	Tape, electrical, 3/4 in. X 15 ft. semi-conducting	113.00	\$9.92	\$ 1,120.96	
	Connector,split bolt, 3 conductor 1/0 to 14, AL. to CU, 600v in	226.00	\$2.42	\$ 546.92	
Sub-Total Material Cost					\$ 2,629.51
Indirect Cost Factor @ 9.17%					\$ 241.13
Total Material Cost					\$ 2,870.64
TOTAL COST					\$ 10,752.03
Total Cost Per Unit					\$ 95.15
ROUNDED TOTAL COST					\$ 10,751.95
Total Excluded Cost					\$ 3,127.43

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD					
Highway: STH 241					
County: Milwaukee					
Item Number: 90005-124					
Item: LIGHTING CONTROL CABINET (200 AMP 240/480 VOLT ELECTRICAL PEDESTAL SERVICE)					
Quantity: 2					
Unit: EACH					
Machinery Charges:					
	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Dump Truck (Med. & Lrg.)	5.000	10.000	\$4.94	\$ 49.40
	Pickup	0.2500	0.5000	\$2.20	\$ 1.10
	Total Machinery Charges				\$ 50.50
Labor Costs:					
	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	5.000	10.000	\$29.55	\$ 295.50
	Electrical Worker	5.000	10.000	\$22.70	\$ 227.00
	Cement Finisher	0.500	1.000	\$27.46	\$ 27.46
	Machinist II	3.000	6.000	\$27.95	\$ 167.70
	Sub-Total Labor Cost				\$ 717.66
	Indirect Cost factor @ 6.33%				\$ 45.43
	Fringe Benefit Rate @ 79.09%				\$ 567.60
	Total Labor Cost				\$ 1,330.69
Material Costs:					
	Item	Amount	Price	Total	
	200amp service cabinet complete	2.000	\$2,500.00	\$ 5,000.00	
	5/8" x 8' ground rod (Old Item# 1278870)	2.000	\$275.58	\$ 551.15	
	concrete (0.07 cubic yard)	2.000	\$12.09	\$ 24.18	
	Metal pedestal base (Fabricated)	2.000	\$40.86	\$ 81.71	
	Sub-Total Material Cost				\$ 5,657.04
	Indirect Cost Factor @ 9.17%				\$ 518.75
	Total Material Cost				\$ 6,175.79
	TOTAL COST				\$ 7,556.98
	Total Cost Per Unit				\$ 3,778.49
	ROUNDED TOTAL COST				\$ 7,556.98
	Total Excluded Cost				\$ 6,226.29

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD					
Highway: STH 241					
County: Milwaukee					
Item Number: 90005-113					
Item: REMOVE LUMINAIRE COMPLETE					
Quantity: 138					
Unit: EACH					
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Aerial/Boom Trucks	0.250	34.500	\$6.45	\$ 222.53
	Total Machinery Charges				\$ 222.53
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	0.250	34.500	\$29.55	\$ 1,019.48
	Electrical Worker	0.250	34.500	\$22.70	\$ 783.15
Sub-Total Labor Cost				\$	1,802.63
Indirect Cost factor @ 6.33%				\$	114.11
Fringe Benefit Rate @ 79.09%				\$	1,425.70
Total Labor Cost				\$	3,342.44
Material Costs:	Item	Amount	Price	Total	
		138		\$ -	
	Sub-Total Material Cost				\$
Indirect Cost Factor @ 9.17%				\$	-
Total Material Cost				\$	-
TOTAL COST				\$	3,564.97
Total Cost Per Unit				\$	25.83
ROUNDED TOTAL COST				\$	3,564.54
Total Excluded Cost				\$	222.53

Project ID: SOUTH 27TH ST--WEST HOWARD AVENUE TO UNION PACIFIC RAILROAD
 Highway: STH 241
 County: Milwaukee

Item Number: **90005-128**
 Item: **CONCRETE CONTROL CABINET BASE**

Quantity: 2 Unit: 1 control cabinet concrete base
 Converted 2.778 Unit: CU.YD.
 Converted 30.0000 Unit: SQ. FT.

Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Pickup	0.1666	4.9980	\$2.20	\$ 11.00
	Compressors	0.1666	4.9980	\$0.93	\$ 4.65
	Dump Truck (Med. & Lrg.)	5.000	10.000	\$4.94	\$ 49.40
	Pickup	0.2500	0.5000	\$2.20	\$ 1.10
Total Machinery Charges					\$ 66.15
Labor Costs:	Position	Each Square Foot Unit	Total Hours	Hourly Rate	Total
	Cement Finisher	0.1666	4.9980	\$27.46	\$ 137.25
	Special Laborer Electrical Services	0.1666	4.9980	\$20.82	\$ 104.06
	Special Laborer Electrical Services	0.1666	4.9980	\$20.82	\$ 104.06
	City Laborer Regular		16.000	\$18.97	\$ 303.52
	City Laborer Regular		16.000	\$18.97	\$ 303.52
	Electrical Mechanic (crew chief)		16.000	\$31.05	\$ 496.80
	Electrical Mechanic		16.000	\$29.55	\$ 472.80
Sub-Total Labor Cost					\$ 952.41
Indirect Cost factor @ 6.33%					\$ 60.29
Fringe Benefit Rate @ 79.09%					\$ 753.26
Total Labor Cost					\$ 1,765.96
Material Costs:	Item	Amount	Price	Total	
	concrete (cubic yard)	2.7778	\$80.00	\$ 222.22	
	2" PVC Conduit (ft)	100	\$0.47	\$ 47.00	
	4" PVC Conduit (ft)	20	\$1.97	\$ 39.40	
	1.5" PVC Conduit (ft)	40	\$0.45	\$ 18.00	
	2" PVC elbow Each	10	\$2.30	\$ 23.00	
	4" PVC elbow Each	2	\$11.97	\$ 23.94	
	1.5" PVC elbow Each	2	\$1.72	\$ 3.44	
	5/8" x 8' ground rod (Old Item# 1278870)	2	\$10.00	\$ 20.00	
Sub-Total Material Cost				\$ 397.00	
Indirect Cost Factor @ 9.17%				\$ 36.40	
Total Material Cost				\$ 433.40	
TOTAL COST				\$ 2,265.51	
Total Cost Per Unit				\$ 1,132.76	
ROUNDED TOTAL COST				\$ 2,265.52	
Total Excluded Cost				\$ 499.55	

Material		Prices Changed 1-16-2013		Indirect Cost Factor @ 9.17%
1028550	Resin & hardener, expoxy electrical grade	\$	2.96	each
1201400	55 volt starting aid (ignitor)	\$	41.72	each
1201401	100 volt starting aid (ignitor)	\$	33.38	each
1202700	Contact aid, electrical	\$	8.51	each
non stock	Cross arm fir, 4 pin (Old Item# 1204243)	\$	26.34	each
1204329	Lightning arrestor	\$	45.16	each
1206580	Base, Cast Iron	\$	254.00	each
1210085	Double harp arm	\$	389.07	each
1210120	Lantern arm clamp A21/A26 green	\$	93.17	each
1210121	Lantern arm clamp A21/A26 black	\$	83.20	each
1210130	Lantern arm clamp A31 green	\$	91.05	each
1210131	Lantern arm clamp A31 black	\$	97.17	each
1210151	150w lantern arm green	\$	511.77	each
1210152	150w lantern arm black	\$	418.42	each
1210186	Mitchell 6' upsweep bracket	\$	47.14	each
1210187	Stub bracket for cut-off fixture	\$	27.08	each
1210190	A31 mounting clamp single bracket	\$	31.34	each
1210191	A21/A26 mounting clamp single bracket	\$	42.26	each
1210196	A21/A26 mounting clamp double bracket	\$	48.76	each
1210197	A31 mounting clamp double bracket	\$	50.47	each
1210206	6' upsweep bracket for wood pole mtg.	\$	80.11	each
1210250	250w lantern arm green	\$	353.89	each
1210251	250w lantern arm black	\$	427.84	each
1210400	lantern arm no-ballast green	\$	194.25	each
1210401	lantern arm no-ballast black	\$	348.04	each
non stock	Bushings, wood, 2 in. (Old Item# 1211860)	\$	0.67	each
non stock	100 amp circuit breaker cabinet (old Item# 1214640)	\$	41.42	each
1222308	2" rigid galvanized conduit	\$	2.62	foot
non stock	3" rigid galvanized conduit (Old Item# 1222821)	\$	2.16	foot
1224251	Connector,split bolt, 3 conductor 1/0 to 14, AL. to CU, 600v insul	\$	2.42	each
1226562	100 amp 120/240 volt dura kool relay	\$	277.69	each
1226640	Outlet Cab/Lgt Comm.Distr. MeterPed. 100 amp,120/240 volt,single phase,3-wire 200 Amp 240/480 Secondary Service Cabinet	\$	2,550.31	each
1233720	2" PVC Continous Duct		\$0.82	foot
non stock	3" PVC Continous Duct (Old Item# 1233730)	\$	1.88	foot
	1.5" PVC Conduit	\$	0.45	foot
	2" PVC Conduit	\$	0.47	foot

1233826	2.5" PVC Conduit	\$	0.50	foot
1236186	transclosure, housing only, 54 in. X 54 in. X 71 in, steel, 1 gang	\$	6,503.42	each
1236297	1kw, 200 amp meter socket, 60 amp disconnect,(Transclosure complete)	\$	11,919.94	each
1236882	Street Name Sign Assy	\$	290.00	each
1236886	Regulatory Sign Assy (24"x30")	\$	427.00	each
1238070	70w Milwaukee harp fixture green	\$	494.12	each
1238071	70w Milwaukee harp fixture black	\$	835.93	each
1238150	150w/240v.Milwaukee harp fixture black with outlet	\$	830.00	each (HoloPhane)
1238741	70w/240v. wall pack fixture	\$	198.00	each
1238939	Precast concrete base for ped pole (11"bolt cir. 22"Dx36"H)	\$	355.01	each
1242901	GUARD, CABLE, U-GUARD, 1-1/8" X 10 FT., GALVANIZED STEEL, NOTCHED, CHANCE #6531-1/2	\$	15.48	each
1244002	slip fit head no-ballast	\$	30.75	each
1244006	slip fit head 100w/240v.	\$	59.74	each
1244250	Milwaukee lantern green	\$	322.26	each
1244251	Milwaukee lantern black	\$	389.00	each
1244980	metal pedestal housing (4"x4"x36")	\$	43.73	each
1254250	50 watt hps lamp	\$	16.74	each
1254700	150 watt H.P.S. lamp	\$	11.52	each
1254702	250 watt H.P.S. lamp	\$	9.93	each
1254751	100 watt H.P.S lamp	\$	10.24	each
1254757	70 watt H.P.S. lamp	\$	10.00	each
non stock	50 watt sharp cut-off fixture (Old Item# 1260xxx)	\$	126.97	each
1260202	150/250 watt cobra no-ballast	\$	54.96	each
1260300	150 watt/240 volt cobra fixture	\$	89.01	each
1260312	250 watt/240 volt cobra fixture	\$	100.70	each
1260316	250 watt/240 volt cut-off fixture	\$	343.10	each
non stock	150 watt/240 volt cut-off fixture (Old Item# 1260317)	\$	126.97	each
1267203	type II optical assembly	\$	38.50	each
1267265	type V optical assembly	\$	31.14	each
	15' aluminum pole direct burial	\$	277.75	each
1272020	22' aluminum pole direct burial	\$	322.73	each
1272026	26' aluminum pole direct burial	\$	475.66	each
	14'6" aluminum bolt down pole	\$	300.00	each
1272054	25' aluminum bolt down pole	\$	525.00	each
1272059	30' aluminum bolt down pole	\$	495.00	each
1272062	31' aluminum pole direct burial	\$	540.78	each
1272070	13' black bolt down steel pole (octafluted)	\$	759.50	each
non stock	10' blk. Al. Bolt down pole (Old Item# 1272074)	\$	0.01	each
1272076	15' black bolt down steel pole (octafluted)	\$	2,116.75	each
1272077	13' green bolt down steel pole (octafluted)	\$	759.50	each

1272078	15' green bolt down steel pole (octafluted)	\$	899.00	each	
1272081	14.7' Harp pole steel/cast iron base/2 bracelets	\$	7,239.00	each	
1272083	30' Lantern pole steel/cast iron base/ 3 bracelets	\$	4,806.00	each	
1272125	H15 concrete pole 13' diect burial	\$	620.83	each	
1272127	H17 concrete pole 15' direct burial	\$	753.00	each	
1272143	26' black square concrete pole direct burial	\$	750.14	each	
1272145	A31 concrete pole direct burial (Gray)	\$	791.85	each	
1272146	A21 concrete pole direct burial	\$	680.00	each	
1272147	A26 concrete pole direct burial	\$	678.74	each	
1272148	A31 concrete pole direct burial (Black)	\$	1,386.36	each	
1272150	AT-31R concrete pole direct burial	\$	1,632.77	each	
non stock	A31 concrete pole Bolt Down (Black)	\$	1,500.00	each	
non stock	AT31 concrete pole direct burial	\$	0.01	each	
non stock	AT26 concrete pole direct burial	\$	0.01	each	
non stock	UD concrete pole direct burial	\$	0.01	each	
non stock	PD concrete pole direct burial	\$	0.01	each	
non stock	S concrete pole direct burial	\$	0.01	each	
non stock	200 amp Meter Socket (Old Item# 127300)	\$	110.28	each	
non stock	5/8" x 8' ground rod (Old Item# 1278870)	\$	10.00	each	
non stock	100 amp meter socket (Old Item# 1279100)	\$	25.17	each	from '97 stock catalog
1279189	Sleeve, splicing, pvc, 2 in. X 12 in. inside bore	\$	3.14	each	
1279255	Sleeve Assembly, transformer, epoxy	\$	3.73	each	
1281451	oil switch (sub station equip.)	\$	2,130.00	each	
1283075	Tape, electrical, 3/4 in. X 15 ft. semi-conducting	\$	9.92	each	
1283208	Tape, rubber, 3/4 in.	\$	2.25	each	
1285540	70 watt HPS single coil series ballast	\$	186.65	each	
1285541	70 watt HPS double coil series ballast	\$	317.53	each	
1285542	70 watt HPS triple coil series ballast	\$	458.44	each	
1285550	100 watt HPS single coil series ballast	\$	207.93	each	
1285551	100 watt HPS double coil series ballast	\$	401.50	each	
1285552	100 watt HPS triple coil series ballast	\$	565.09	each	
1285560	150 watt HPS single coil series ballast	\$	223.45	each	
1285561	150 watt HPS double coil series ballast	\$	416.08	each	
1285570	250 watt HPS single coil series ballast	\$	232.13	each	
1285571	250 watt HPS double coil series ballast	\$	436.17	each	
1285940	37.5 kva 2200-7620 240/480 transformer	\$	722.00	each	
1285941	50 kva 2200-7620 240/480 transformer	\$	765.63	each	from '97 stock catalog
1285943	50 kva 4800 primary, 240/480 secondary, single phase transformer	\$	693.33	each	
1285946	1 kva 2160 primary/120 secondary, single phase transformer	\$	336.19	each	
1285947	1 kva 4800 primary/120 secondary, single phase transformer	\$	429.12	each	

1285948	1 kva 7620 primary/120 secondary, single phase transformer	\$	423.95	each	
1285957	75 kva 2200-7600 240/480 transformer	\$	1,272.48	each	
non stock	Planter basket	\$	1,458.00	each	
non stock	Regulatory Sign Assy (18"x24")	\$	445.50	each	4/16/2005 prices
non stock	concrete	\$	80.00	cu.yd.	per Darrell Sobczak x5533 708-4223 2/18/09
2105240	35 ft. wood pole	\$	0.02	each	
2105252	40 ft. wood pole	\$	0.02	each	
2105272	45 ft. wood pole	\$	0.02	each	
3400032	2#2/1#4 al. triplex cable - secondary	\$	0.34	foot	
3400034	2#4/1#6 al. triplex cable - secondary	\$	0.67	foot	
3400036	3#6 al. Triplex cable - secondary	\$	0.58	foot	
3400439	1#8 concentric cable - primary	\$	1.70	foot	
3400742	2#12 UF cable - secondary	\$	0.42	foot	
3400799	3#2/1#8 LTP cable - secondary	\$	3.76	foot	
3400804	3#4/1#8 LTP cable - secondary	\$	2.51	foot	
3400812	3#12 UF cable - secondary	\$	0.55	foot	
3400812	3#12 UF w/grd. cable - secondary	\$	0.55	foot	
3400831	3#6/1#8 LTP cable - secondary	\$	1.70	foot	
3400840	3#8/1#8 LTP cablr - secondary	\$	1.17	foot	
3400851	3#10 UF cable - secondary	\$	1.00	foot	
3420290	1#6 primary line wire	\$	0.55	foot	
3420295	Wire type TW #6 stranded, black	\$	0.51	foot	
non stock	radio control	\$	475.00	each	
non stock	Hoffman enclosure	\$	745.84	each	
non stock	100amp switch	\$	310.00	each	
non stock	27" round vault	\$	227.00	each	
non stock	27" round cover	\$	97.50	each	
non stock	13"x24"x18" rectangular vault & cover	\$	224.81	each	
non stock	17"x30"x18" rectangular vault & cover	\$	269.23	each	
non stock	200amp service cabinet complete	\$	2,500.00	each	
non stock	1/0 bare copper wire	\$	2.00	LF	
non stock	Metal pedestal base (Fabricated)	\$	100.00	each	
non stock	14 1/2" dia. steel pole insert	\$	2,000.00	each	
non stock	30" dia.x 8 ft. high cardboard tube	\$	170.00	each	
non stock	24" dia.x 6 ft. high cardboard tube	\$	100.00	each	
non stock	1" dia. X 3 ft. threaded rod	\$	17.03	each	
non stock	Rebar cage	\$	399.19	each	
non stock	4"X4"X4" Cast Iron Box (Steel Checkered Plate Cover)	\$	250.00	each	
non stock	heavy duty, bronze, 5/8", 10Sol-1/0Str (Acorn Nut)	\$	8.45	each	

Salary Additives

Fringe Benefit and Indirect

Fringe Benefit Rate @ 79.09%

Indirect Cost factor @ 6.33%

Example Labor Rate=Rate (hr.) x Salary Additive

\$52.92

Indirect Cost Factor <i>(Total OH Cost)</i>	1.0633
Labor Fringe Benefit, and Indirect Salary <i>(added Together)</i>	1.7909

2011 LABOR RATES FROM SALARY ORDINANCE (as of 7/6/2011)

Pay Range	Local 494-Electrical Group	Top Wage Rate	Unit
978	Electrical Mechanic (crew chief)	\$31.05	/hr.
978	Electrical Mechanic	\$29.55	/hr.
975	Electrical Mechanic Apprentice	\$26.59	/hr.
974	Electrical Worker	\$22.70	/hr.
960	Directional Boring Operator	\$27.56	/hr.
AFSCME District Council 48			
245	Utility Worker, Electrical Worker	\$20.82	/hr.
245	Traffic Sign Worker II	\$20.82	/hr.
245	Special Laborer Electrical Services	\$20.82	/hr.
235	Traffic Sign Worker I	\$19.86	/hr.
230	Laborer Electrical Services	\$19.37	/hr.
220	City Laborer Regular	\$18.97	/hr.
205	City Laborer Seasonal	\$17.41	/hr.
Local 494-Machine			
698	Machinist II	\$27.95	/hr.
696	Electrical Services Machinist I	\$27.01	/hr.
696	Electrical Services Blacksmith	\$27.01	/hr.
694	Electrical Services Welder	\$24.32	/hr.
Building and Construction Trades			
989	Sewer Mason	\$32.85	/hr.
982	Cement Finisher	\$27.46	/hr.
981	Painter	\$26.43	/hr.

Pole Crew

1 Electrical Mechanic

1 Electrical Worker

2 Special Laborer Electrical Services

1.0713	2012 Previous Indirect Cost Rate Proposal (Total Overhead Cost)
	2012 Previous labor Fringe Benefit, and Indirect Salary



Fleet Services 2012 Rate Schedule Jan.26, 2012

Aerial/Boom Trucks	\$	6.45	hr.
Compressors	\$	0.93	hr.
Constr. Equipment - Small	\$	0.95	hr.
Constr. Equipment - Med	\$	1.48	hr.
Constr. Equipment - Large	\$	6.74	hr.
Dump Truck (Small)	\$	3.97	hr.
Dump Truck (Med. & Lrg.)	\$	4.94	hr.
Misc. Large Truck (Line Truck)	\$	3.20	hr.
Pickup	\$	2.20	hr.
Trailers (Pole & Cable)	\$	0.32	hr.
Van [Heavy]	\$	3.03	hr.

Driver/Operator Rates - Hour		Hourly Charge Rate
Job Title		
Special Equipment Operator	No Longer Used	
Truck Driver	No Longer Used	
Operations Driver/Worker	\$ 48.22	
Crane Operator	\$ 60.92	
Heavy Tractor Operator	\$ 60.01	
Light Tractor Operator	\$ 57.63	
Gradall/Backhoe Operator	\$ 60.92	

Equipment Additive **24.09%**

Vehicle Or Equipment Type	2013 Charges to Outside Agencies ONLY Hour Rate - Includes Fuel - Does Not Include Operator	2013 Fleet Services Rate Schedule Vehicle Hourly Rate Includes Fuel - does Not Include Operator (for Charging Internal City Projects Only)	Previous
Aerial/Boom Trucks	\$ 14.06	\$ 6.45	\$ 6.61
Bridge Inspection Truck	\$ 83.61	\$ 24.72	\$ 24.57
Cars	\$ 2.33	\$ 1.22	\$ 1.15
Compressors	\$ 2.40	\$ 0.93	\$ 0.90
Constr. Equipment - Small	\$ 2.14	\$ 0.95	\$ 0.83
Constr. Equipment - Medium	\$ 5.89	\$ 1.48	\$ 1.35
Constr. Equipment - Large	\$ 17.49	\$ 6.74	\$ 7.42
Containers	\$ 0.26	\$ 0.07	\$ 0.07
Custom Bus - Type Unit	\$ 41.90	\$ 3.71	\$ 0.93
Dump Truck -Small	\$ 6.65	\$ 3.97	\$ 3.53

Dump Truck - Medium & Large	\$ 10.98	\$ 4.94	\$ 5.03
Leaf Equipment	\$ 2.40	\$ 1.37	\$ 1.39
Miscellaneous	\$ 1.17	\$ 0.27	\$ 0.44
Miscellaneous Large Trucks	\$ 7.62	\$ 3.20	\$ 3.85
Pickups	\$ 3.97	\$ 2.20	\$ 2.16
Plows	\$ 3.36	\$ 1.28	\$ 1.05
Refuse Collection	\$ 23.02	\$ 11.05	\$ 10.92
Salt Spreaders	\$ 5.44	\$ 1.13	\$ 1.11
Sewer Equipment	\$ 16.39	\$ 7.78	\$ 7.53
Small Tractors	\$ 28.47	\$ 11.39	\$ 6.63
Street Sweepers	\$ 36.46	\$ 24.72	\$ 25.51
Tow Trucks	\$ 7.62	\$ 2.78	\$ 3.06
Trailers	\$ 1.36	\$ 0.32	\$ 0.16
Vans - Light	\$ 3.09	\$ 1.70	\$ 2.24
Vans - Heavy	\$ 6.91	\$ 3.03	\$ 2.70

External Rates

Rates charged to entities outside of the City of Milwaukee, such as the State of Wisconsin, other municipalities, and Milwaukee County, should include a calculation for depreciation. Such **External Rates** are developed and posted in this document. Certain agencies have their own rate schedules. Use either our calculated **External Rates**, or the other agencies' suggested rate, whichever is greater, if you have the choice. Some agencies (FEMA, for example) will not allow use of rates other than their own. You must follow the rates they have published.

Previous Rate 2012	
\$ 53.87	
\$ 68.42	
\$ 67.39	
\$ 77.87	
\$ 68.42	

Group Description of Equipment	
Rate 2012	
	Aerial Man Lift Truck , Derrick Digger, Log Loader
	Under Bridge Inspection Boom Truck
	Car-Station Wagon, Car Compact, Car Midsize Mini
	Compressor-Dump Truck Mounted, Compressor
	Breaker for Backhoe, Concrete Mixer, Concrete S
	Asphalt Reclaimer, Brush-Chipper, Drill Rig-B Unit
	Backhoe/Loader, Construction Crane, Crawler Do
	Rolloff Container
	Bookmoblie,Mobile Medical Unit
	One Ton Dump, Two Yard Dump

Contractor Dump Body, Dump-2 Ton 5 Yard, D

Leaf Hopper, Leaf Pan, Leaf Rake

Boat-Non Police, Golf Cart, Generators, Pressure

Gate Valve Turner Truck, Mason Truck, Semi Tra

Carrall/Suburban Type, Compressor Truck, Mini P

Snow Plow

Packer-Rear Load Container, Packer Automated S

Salt Spreader

Misc.Sewer Cleaners, Sewer Jet, Sewer Rodder

Lawn Mowers, Farm Tractor, Holder-Tractor, Tra

Street Sweeper

Wrecker Heavy, Wrecker Light

Bucket Sewer Cleaner-Trailer, Clorinator-Trailer, I

Cargo Van-Light, Van-Passenger

Cube Van, Step Van

Mini-Passenger

or-Trailer or Skid

Strike Off, Flusher, Grinder/Crack Router Scabbler, Line Eraser, Line Marker, Mudjack, Floor Sweeper, Forklift, Hydrocrane-Basin Cleaner, **Pavement Breaker**, Shop Crane, **Drill Rig-A Unit**, End Loader, Gradall-Excavator/Crane, Long Line Marker Unit, R

Mini-Passenger

or-Trailer or Skid

Strike Off, Flusher, Grinder/Crack Router Scabbler, Line Eraser, Line Marker, Mudjack, Floor Sweeper, Forklift, Hydrocrane-Basin Cleaner, **Pavement Breaker**, Shop Crane, **Drill Rig-A Unit**, End Loader, Gradall-Excavator/Crane, Long Line Marker Unit, R

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Strike Off, Flusher, Grinder/Crack Router Scabbler, Line Eraser, Line Marker, Mudjack, Floor Sweeper, Forklift, Hydrocrane-Basin Cleaner, **Pavement Breaker**, Shop Crane, **Drill Rig-A Unit**, End Loader, Gradall-Excavator/Crane, Long Line Marker Unit, R

Mini-Passenger

or-Trailer or Skid

Strike Off, Flusher, Grinder/Crack Router Scabbler, Line Eraser, Line Marker, Mudjack, Floor Sweeper, Forklift, Hydrocrane-Basin Cleaner, **Pavement Breaker**, Shop Crane, **Drill Rig-A Unit**, End Loader, Gradall-Excavator/Crane, Long Line Marker Unit, R

ump-Over 3.5 Ton, Dump-Triaxle, Dump 5 Passanger Insulated, Dump Tandem Axle

Washer, Vehicle Heater/Tool Heater, Not Assigned to Rental Class
ctor, Stake Truck, Tree Spade Truck, Tilt Top Car Carrier, Welders Truck
Pick Up Truck, Pick Up-Full Size, Pick Up Enclosed Body 4X4 (SUV), **Utility Body Pic**

Side Loading, Packer Recycling Cart 25 YD, Packer Front/Top Loading, Packer W/O C
ckless

nfa Red-Trailer, Miscellaneous Trailer, Pressure Tester Trailer, **Trailer Cable Reel**, W

, Pump, Sand Blaster, **Saw-Concrete/Asphalt**, Snowblower, Sod Cutter/Soil Shredder, Sprayer-Trailer Mounted, S
e-Small Mobil, Sidewalk Sweeper, Skid Steer Loader, Skid Steer Loader W/Planer, Snow Blower for Endloader, Stu
Road Patcher Truck, Road Planer

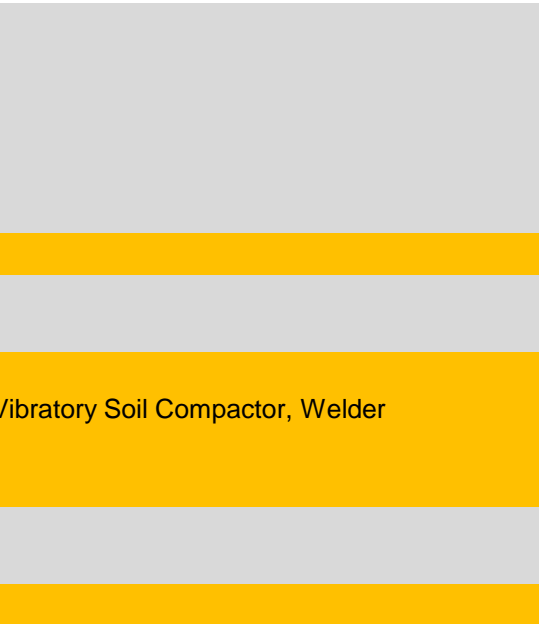
pickup

Cart Lifters 25 YD, Packer with Cart Lifters 25 YD, Rolloff Truck

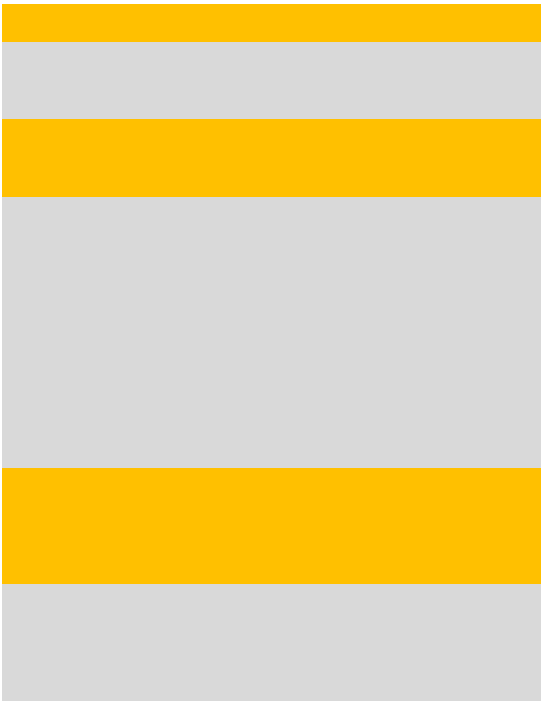
Water Wagon

team Cleaner Pressure Washer, Tar Kettle, Tar Melter, Tree Spade, Vehicle Heater/Tool Heater, Vibratory Roller, V
mp Cutter, Trencher, Vac All, Vacuum Unit-Skid Mounted





Vibratory Soil Compactor, Welder



2011 Salary Ordinance updated through 7/6/11 Common Council Meeting

									Highest Wage	
Pay Range	Job Title	Hourly Rates							Average	
978	Electrical Mechanic (Crew Chief)	\$31.05							\$31.05	\$31.05
978	Electrical Mechanic	\$29.55							\$29.55	\$29.55
975	Electrical Mechanic Apprentice	\$14.77	\$17.73	\$22.16	\$26.59				\$20.31	\$26.59
974	Electrical Worker	\$18.35	\$19.59	\$21.15	\$22.70				\$20.45	\$22.70
245	Utility Worker/Electrical Worker	\$18.83	\$19.25	\$19.69	\$20.15	\$20.82			\$19.75	\$20.82
245	Traffic Sign Worker II	\$18.83	\$19.25	\$19.69	\$20.15	\$20.82			\$19.75	\$20.82
245	Special Laborer Electrical Services	\$18.83	\$19.25	\$19.69	\$20.15	\$20.82			\$19.75	\$20.82
235	Traffic Sign Worker I	\$17.99	\$18.36	\$18.78	\$19.22	\$19.86			\$18.84	\$19.86
230	Laborer Electrical Services	\$17.59	\$17.94	\$18.33	\$18.75	\$19.37			\$18.40	\$19.37
220	City Laborer Regular	\$17.28	\$17.64	\$18.02	\$18.39	\$18.97			\$18.06	\$18.97
205	City Laborer Seasonal	\$14.73	\$15.74	\$16.39	\$16.73	\$17.07	\$17.24	\$17.41	\$16.13	\$17.41
698	Machinist II	\$24.34	\$25.21	\$26.10	\$27.01	\$27.95			\$26.12	\$27.95
696	Electrical Services Machinist I	\$23.53	\$24.34	\$25.21	\$26.10	\$27.01			\$25.24	\$27.01
696	Electrical Services Blacksmith	\$23.53	\$24.34	\$25.21	\$26.10	\$27.01			\$25.24	\$27.01
694	Electrical Services Welder	\$21.42	\$22.07	\$22.76	\$23.51	\$24.32			\$22.82	\$24.32
989	Sewer Mason	\$32.85							\$32.85	\$32.85
982	Cement Finisher	\$27.46							\$27.46	\$27.46
981	Painter	\$26.43							\$26.43	\$26.43
960	Directional Boring Operator	\$27.56							\$27.56	\$27.56

D.P.W. - CITY OF MILWAUKEE
TRAFFIC ENGINEERING AND ELECTRICAL SERVICES DIVISION
 2014 Street lighting Job Material Cost Sheet

LOCATION: _____

DRG# _____

DATE June 25, 2014 W.O. _____ OH WORK _____ UG WORK _____

ENGINEERING BY _____ TO SHOP _____ COMPLETED _____ CARRYOVER _____

MAJOR PAV.	AREA LTG.
MINOR PAV.	FREEWAY
ADD'L.LTG.	CUTOVER
OTHERS	

J.O.#

COST ESTIMATE

DISTRICT		
BLOCKS		
INSTALLED		
REMOVED		
FEET		

MATERIAL COST ESTIMATE

INSTALL	MATERIALS-COMM.CODE	UNIT COST	REM.
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PIPE AND DUCT			
	2" PVC	1233822	0.31
	2.5" PVC	1233826	0.50
	3" PVC	1233823	0.93

CABLES			
5000 V. CABLES			
	1#8 CONCENTRIC	3400439	1.70
	1#6 PRIM. LINE	3420290	0.55
600 V. CABLES			
	3#2/1#8 LTP	3400799	3.76
	3#4/1#8 LTP	3400804	2.51
	3#6/1#8 LTP	3400831	1.70
	3#8/1#8 LTP	3400840	1.17
	3#10 W/GRND.UF	3400851	1.00
	2#2/1#4 AL.	3400032	0.34
	2#4/1#6 AL.	3400034	0.67
	3#6 AL.	3400036	0.58
	3#12 UF W/GRD.	3400812	0.55
	2#12 UF	3400742	0.42

WOOD POLES			
	35'	2105240	0.02
	40'	2105252	0.02
	45'	2105272	0.02

CONCRETE POLES			
	H15'	1272125	620.83
	H17'	1272127	753.00
	A21 GRAY	1272146	680.00
	A26 GRAY	1272147	678.94
	A31 GRAY	1272145	791.85
	A31 BLACK	1272148	1386.36
	AT-31R	1272150	1632.77
	A31 BLACK BOLT DOWN	NONSTOCK	1500.00

ALUMINUM POLES			
	22'-S6'	1272020	322.73
	25'-S6' / D6' BOLT DOWN	1272054	525.00
	26'-S6' / D6'	1272026	475.66
	30'-D6' BOLT DOWN	1272059	495.00
	31'-S6' / D6'	1272062	540.78

INSTALL	MATERIALS-COMM.CODE	UNIT COST	REM.
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STEEL POLES			
	13' BLK. B.D. (HARP)	1272070	759.50
	13' GRN. B.D. (HARP)	1272077	759.50
	15' BLK. B.D. (HARP)	1272076	2116.75
	15' GRN. B.D. (HARP)	1272078	899.00
	14.7' BLK.DOWNTOWN		
	HARP WITH BASE COVER	1272081	7239.00
	30' BLK.DOWNTOWN		
	LANT.WITH BASE COVER	1272083	4806.00

BRACKETS AND CLAMPS			
MILWAUKEE LANTERN ARRAY			
	CLAMP/GRN. A21/A26	1210120	93.17
	CLAMP/BLK. A21/A26	1210121	83.20
	CLAMP/GREEN A31	1210130	91.10
	CLAMP/BLACK A31	1210131	97.17
	ARM/GRN. 150W/240V	1210151	511.77
	ARM/BLK. 150W/240V	1210152	418.42
	ARM/GRN. 250W/240V	1210250	353.89
	ARM/BLK. 250W/240V	1210251	427.84
	ARM/GRN. W/O BALLAST	1210400	194.25
	ARM/BLK. W/O BALLAST	1210401	345.04

A/AL/WOOD POLE ARRAY			
	6'-0",2"AL. MITCHELL	1210186	47.14
	SHARP CUT-OFF BRKT.	1210187	27.08
	A31 BRACKET CLAMP	1210190	31.34
	A21/26 BRACKET CLAMP	1210191	42.26
	A21/26 DOUBLE ARM	1210196	48.76
	A31 DOUBLE ARM	1210197	50.47
	6'-0" UB, WP MNTG.	1210206	80.11
	A31 BRKT FRONT PLATE	410442	13.11
	A31 BRKT REAR PLATE	410443	8.93
	A21/A26 BRKT FRNT PLATE	410444	13.16
	A21/A26 BRKT REAR PLATE	410445	10.84

HEAD ASSEMBLY - SIDE MOUNT FIXTURE			
	SERIES W/O BALLAST	1244002	30.75
	100W,240V,HPS	1244006	59.74
	2" SOCKET EXT.	1279683	9.98

D.P.W. - CITY OF MILWAUKEE
TRAFFIC ENGINEERING AND ELECTRICAL SERVICES DIVISION
2014 Street lighting Job Material Cost Sheet

INSTALL	MATERIALS-COMM.CODE	UNIT COST	REM.
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OPTICAL ASSEMBLY - CLOSED BOTTOM			
	TYPE II PLASTIC	1267203	38.50
	TYPE V PLASTIC	1267265	31.14

HPS LUMINAIRES (SERIES)			
	150W/250W	1260202	54.96

HPS LUMINAIRES (MULTIPLE)			
	150W,240V	1260300	89.01
	250W,240V	1260312	100.70
	250W,240V RECT.	1260316	343.06

HISTORIC FIXTURES			
	HARP 0S, GRN.	1238070	494.12
	HARP 0S, BLK.	1238071	835.93
	ML, GRN.	1244250	322.26
	ML, BLK.	1244251	389.00

UNDERPASS FIXTURES			
	70W 240V HPS WALLPACK		
	UNIT	1238741	198.00

METAL HALIDE FIXTURES			
	400W	1260412	200.00

STARTING AID - HPS			
	70-100-150W, 55V	1201400	41.72
	250-400W, 100V	1201401	33.38

LAMPS			
	50W HPS	1254250	16.74
	70W HPS	1254757	10.00
	100W HPS	1254751	10.24
	150W HPS	1254700	11.52
	200W HPS	1254701	13.57
	250W HPS	1254702	9.93
	400W HPS	1254750	12.96
	150W RETRO	1254752	39.50
	215W RETRO	1254756	42.43
	360W RETRO	1254754	14.86

LAMPS-METAL HALIDE			
	70W	1254600	24.78
	175W	1254602	12.69
	400W	1254604	11.20

EPOXY BALLAST-HPS USED OH			
	70W, 1 COIL	1285540	0.001
	70W, 2 COIL	1285541	0.001
	70W, 3 COIL	1285542	0.001
	100W, 1 COIL	1285250	0.001
	100W, 2 COIL	1285251	0.001
	100W, 3 COIL	1285252	0.001
	150W, 1 COIL	1285260	0.001
	150W, 2 COIL	1285261	0.001
	200W, 1 COIL	1285590	0.001
	250W, 1 COIL	1285270	0.001
	250W, 2 COIL	1285271	0.001

RISERS			
	PRIMARY	1242901	126.54
	SECONDARY 2-WIRE		118.90
	SECONDARY 3-WIRE		118.90

INSTALL	MATERIALS-COMM.CODE	UNIT COST	REM.
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LIGHTNING ARRESTOR			
	3KV	1204329	45.16

GROUND AND TEST			
	STATION		55.93
	5/8"X8' GROUND ROD		20.50
	GROUND ROD CLAMP		2.19

EPOXY BALLASTS - HPS UNDERGROUND ONLY			
	70W, 1 COIL	1285540	186.65
	70W, 2 COIL	1285541	317.53
	70W, 3 COIL	1285542	458.44
	100W, 1 COIL	1285550	207.93
	100W, 2 COIL	1285551	401.50
	100W, 3 COIL	1285552	565.09
	150W, 1 COIL	1285560	223.45
	150W, 2 COIL	1285561	416.08
	250W, 1 COIL	1285570	232.13
	250W, 2 COIL	1285571	436.17

MISCELLANEOUS MATERIALS			
	BALLAST SLEEVE ASSY.		
	1#8 CABLE EPOXY	1279255	3.73
	PEDESTAL HOUSING	1244980	43.73
	CROSS ARM	1204243	26.34
	22" PRECAST CONC.	1238939	355.01
	BASE W/ 11" BOLT CIRCLES		
	13"x 24" VAULT & COVER		278.00
	17"x30" VAULT & COVER		340.00

DOWNTOWN STYLE POLE ACCESSORIES			
	DOUBLE HARP		
	MOUNTING ARM	1210085	389.07
	STREET NAME SIGN		
	ASSEMBLY & BRKT	1236882	290.00
	(3) LANTERN BRACELETS		
	WITH PIPE STUB & HALF BALL PLUG		
	(2) HARP BRACELETS		
	WITH PIPE STUB & HALF BALL PLUG		
	BANNER ARM (RIGID)		
	WITH HALF BALL PLUG		
	BANNER ARM (SPRING)		
	WITH HALF BALL PLUG		

D.P.W. - CITY OF MILWAUKEE
TRAFFIC ENGINEERING AND ELECTRICAL SERVICES DIVISION
 2014 Street lighting Job Material Cost Sheet

LOCATION: 0
0

DRG# 0

DATE June 25, 2014 W.O. 0 OH WORK 0 UG WORK 0

ENGINEERING BY 0 TO SHOP 0 COMPLETED 0 CARRYOVER 0

MAJOR PAV.	AREA LTG.
MINOR PAV.	FREEWAY
ADD'L.LTG.	CUTOVER
OTHERS	

J.O.#
<u>0</u>
<u>0</u>
<u>0</u>

COST ESTIMATE
<u>0</u>
<u>0</u>
<u>0</u>

DISTRICT		
BLOCKS		
INSTALLED		
REMOVED		
FEET		

MATERIAL COST ESTIMATE \$0.00

QTY.COST	INSTALL	MATERIALS-COMM.CODE	UNIT COST
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PIPE AND DUCT			
\$0.00	0	2" PVC 1233822	0.31
\$0.00	0	2.5" PVC 1233826	0.50
\$0.00	0	3" PVC 1233823	0.93

CABLES			
5000 V. CABLES			
\$0.00	0	1#8 CONCENTRIC 3400439	1.70
\$0.00	0	1#6 PRIM. LINE 3420290	0.55
600 V. CABLES			
\$0.00	0	3#2/1#8 LTP 3400799	3.76
\$0.00	0	3#4/1#8 LTP 3400804	2.51
\$0.00	0	3#6/1#8 LTP 3400831	1.70
\$0.00	0	3#8/1#8 LTP 3400840	1.17
\$0.00	0	3#10 W/GRND.UF 3400851	1.00
\$0.00	0	2#2/1#4 AL. 3400032	0.34
\$0.00	0	2#4/1#6 AL. 3400034	0.67
\$0.00	0	3#6 AL. 3400036	0.58
\$0.00	0	0	0.00
\$0.00	0	3#12 UF W/GRD. 3400812	0.55
\$0.00	0	2#12 UF 3400742	0.42

WOOD POLES			
\$0.00	0	35' 2105240	0.02
\$0.00	0	40' 2105252	0.02
\$0.00	0	45' 2105272	0.02

CONCRETE POLES			
\$0.00	0	H15' 1272125	620.83
\$0.00	0	H17' 1272127	753.00
\$0.00	0	A21 GRAY 1272146	680.00
\$0.00	0	A26 GRAY 1272147	678.94
\$0.00	0	A31 GRAY 1272145	791.85
\$0.00	0	A31 BLACK 1272148	1386.36
\$0.00	0	AT-31R 1272150	1632.77
\$0.00	0	A31 BLACK BOLT DOWN NONSTOCK	1500.00

ALUMINUM POLES			
\$0.00	0	22'-S6' 1272020	322.73
\$0.00	0	25'-S6' / D6' BOLT DOWN 1272054	525.00
\$0.00	0	26'-S6' / D6' 1272026	475.66
\$0.00	0	30'-D6' BOLT DOWN 1272059	495.00
\$0.00	0	31'-S6' / D6' 1272062	540.78

\$0.00	FIRST COLUMN TOTAL	0.00
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QTY.COST	INSTALL	MATERIALS-COMM.CODE	UNIT COST
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STEEL POLES			
\$0.00	0	13' BLK. B.D. (HARP) 1272070	759.50
\$0.00	0	13' GRN. B.D. (HARP) 1272077	759.50
\$0.00	0	15' BLK. B.D. (HARP) 1272076	2116.75
\$0.00	0	15' GRN. B.D. (HARP) 1272078	899.00
\$0.00	0	0	0.00
\$0.00	0	14.7' BLK.DOWNTOWN 0	0.00
\$0.00	0	HARP WITH BASE COVER 1272081	7239.00
\$0.00	0	0	0.00
\$0.00	0	30' BLK.DOWNTOWN 0	0.00
\$0.00	0	LANT.WITH BASE COVER 1272083	4806.00
\$0.00	0	0	0.00

BRACKETS AND CLAMPS			
MILWAUKEE LANTERN ARRAY			
\$0.00	0	CLAMP/GRN. A21/A26 1210120	93.17
\$0.00	0	CLAMP/BLK. A21/A26 1210121	83.20
\$0.00	0	CLAMP/GREEN A31 1210130	91.10
\$0.00	0	CLAMP/BLACK A31 1210131	97.17
\$0.00	0	ARM/GRN. 150W/240V 1210151	511.77
\$0.00	0	ARM/BLK. 150W/240V 1210152	418.42
\$0.00	0	ARM/GRN. 250W/240V 1210250	353.89
\$0.00	0	ARM/BLK. 250W/240V 1210251	427.84
\$0.00	0	ARM/GRN. W/O BALLAST 1210400	194.25
\$0.00	0	ARM/BLK. W/O BALLAST 1210401	345.04
\$0.00	0	0	0.00

A/AL/WOOD POLE ARRAY			
\$0.00	0	6'-0",2"AL. MITCHELL 1210186	47.14
\$0.00	0	SHARP CUT-OFF BRKT. 1210187	27.08
\$0.00	0	A31 BRACKET CLAMP 1210190	31.34
\$0.00	0	A21/26 BRACKET CLAMP 1210191	42.26
\$0.00	0	A21/26 DOUBLE ARM 1210196	48.76
\$0.00	0	A31 DOUBLE ARM 1210197	50.47
\$0.00	0	6'-0" UB, WP MNTG. 1210206	80.11
\$0.00	0	A31 BRKT FRONT PLATE 410442	13.11
\$0.00	0	A31 BRKT REAR PLATE 410443	8.93
\$0.00	0	A21/A26 BRKT FRNT PLATE 410444	13.16
\$0.00	0	A21/A26 BRKT REAR PLATE 410445	10.84

HEAD ASSEMBLY - SIDE MOUNT FIXTURE			
\$0.00	0	SERIES W/O BALLAST 1244002	30.75
\$0.00	0	100W,240V,HPS 1244006	59.74
\$0.00	0	2" SOCKET EXT. 1279683	9.98
\$0.00	0	0	0.00

\$0.00	SECOND COLUMN TOTAL	
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D.P.W. - CITY OF MILWAUKEE
TRAFFIC ENGINEERING AND ELECTRICAL SERVICES DIVISION
2014 Street lighting Job Material Cost Sheet

QTY.COST	INSTALL	MATERIALS-COMM.CODE	UNIT COST
OPTICAL ASSEMBLY - CLOSED BOTTOM			
\$0.00	0	TYPE II PLASTIC 1267203	38.50
\$0.00	0	TYPE V PLASTIC 1267265	31.14

HPS LUMINAIRES (SERIES)			
\$0.00	0	150W/250W 1260202	54.96
\$0.00	0	0	0.00

HPS LUMINAIRES (MULTIPLE)			
\$0.00	0	150W,240V 1260300	89.01
\$0.00	0	250W,240V 1260312	100.70
\$0.00	0	250W,240V RECT. 1260316	343.06
\$0.00	0	0	0.00

HISTORIC FIXTURES			
\$0.00	0	HARP 0S, GRN. 1238070	494.12
\$0.00	0	HARP 0S, BLK. 1238071	835.93
\$0.00	0	ML, GRN. 1244250	322.26
\$0.00	0	ML, BLK. 1244251	389.00

UNDERPASS FIXTURES			
\$0.00	0	70W 240V HPS WALLPACK	
\$0.00	0	UNIT 1238741	198.00

METAL HALIDE FIXTURES			
\$0.00	0	400W 1260412	200.00
\$0.00	0	0	0.00

STARTING AID - HPS			
\$0.00	0	70-100-150W, 55V 1201400	41.72
\$0.00	0	250-400W, 100V 1201401	33.38

LAMPS			
\$0.00	0	50W HPS 1254250	16.74
\$0.00	0	70W HPS 1254757	10.00
\$0.00	0	100W HPS 1254751	10.24
\$0.00	0	150W HPS 1254700	11.52
\$0.00	0	200W HPS 1254701	13.57
\$0.00	0	250W HPS 1254702	9.93
\$0.00	0	400W HPS 1254750	12.96
\$0.00	0	150W RETRO 1254752	39.50
\$0.00	0	215W RETRO 1254756	42.43
\$0.00	0	360W RETRO 1254754	14.86
\$0.00	0	0	0.00

LAMPS-METAL HALIDE			
\$0.00	0	70W 1254600	24.78
\$0.00	0	175W 1254602	12.69
\$0.00	0	400W 1254604	11.20

EPOXY BALLAST-HPS USED OH			
\$0.00	0	70W, 1 COIL 1285540	0.00
\$0.00	0	70W, 2 COIL 1285541	0.00
\$0.00	0	70W, 3 COIL 1285542	0.00
\$0.00	0	100W, 1 COIL 1285250	0.00
\$0.00	0	100W, 2 COIL 1285251	0.00
\$0.00	0	100W, 3 COIL 1285252	0.00
\$0.00	0	150W, 1 COIL 1285260	0.00
\$0.00	0	150W, 2 COIL 1285261	0.00
\$0.00	0	200W, 1 COIL 1285590	0.00
\$0.00	0	250W, 1 COIL 1285270	0.00
\$0.00	0	250W, 2 COIL 1285271	0.00
\$0.00	0	0	0.00

RISERS			
\$0.00	0	PRIMARY 1242901	126.54
\$0.00	0	SECONDARY 2-WIRE 0	118.90
\$0.00	0	SECONDARY 3-WIRE 0	118.90

\$0.00	FIRST COLUMN TOTAL
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QTY.COST	INSTALL	MATERIALS-COMM.CODE	UNIT COST
LIGHTNING ARRESTOR			
\$0.00	0	3KV 1204329	45.16

GROUND AND TEST			
\$0.00	0	STATION 0	55.93
\$0.00	0	5/8"x8" GROUND ROD 0	20.50
\$0.00	0	GROUND ROD CLAMP 0	2.19
\$0.00	0	0	0.00

EPOXY BALLASTS - HPS			
\$0.00	0	70W, 1 COIL 1285540	186.65
\$0.00	0	70W, 2 COIL 1285541	317.53
\$0.00	0	70W, 3 COIL 1285542	458.44
\$0.00	0	0	0.00
\$0.00	0	100W, 1 COIL 1285550	207.93
\$0.00	0	100W, 2 COIL 1285551	401.50
\$0.00	0	100W, 3 COIL 1285552	565.09
\$0.00	0	0	0.00
\$0.00	0	150W, 1 COIL 1285560	223.45
\$0.00	0	150W, 2 COIL 1285561	416.08
\$0.00	0	0	0.00
\$0.00	0	250W, 1 COIL 1285570	232.13
\$0.00	0	250W, 2 COIL 1285571	436.17
\$0.00	0	0	0.00

MISCELLANEOUS MATERIALS			
\$0.00	0	BALLAST SLEEVE ASSY.	
\$0.00	0	1#8 CABLE EPOXY 1279255	3.73
\$0.00	0	0	0.00
\$0.00	0	PEDESTAL HOUSING 1244980	43.73
\$0.00	0	0	0.00
\$0.00	0	CROSS ARM 1204243	26.34
\$0.00	0	0	0.00
\$0.00	0	22" PRECAST CONC. 1238939	355.01
\$0.00	0	BASE W/ 11" BOLT CIRCLES 0	0.00
\$0.00	0	0	0.00
\$0.00	0	13"x 24" VAULT & COVER 0	278.00
\$0.00	0	0	0.00
\$0.00	0	17"x30" VAULT & COVER 0	340.00
\$0.00	0	0	0.00

DOWNTOWN STYLE POLE ACCESSORIES			
\$0.00	0	DOUBLE HARP 0	0.00
\$0.00	0	MOUNTING ARM 1210085	389.07
\$0.00	0	0	0.00
\$0.00	0	STREET NAME SIGN 0	0.00
\$0.00	0	ASSEMBLY & BRKT 1236882	290.00
\$0.00	0	0	0.00
\$0.00	0	(3) LANTERN BRACELETS 0	0.00
\$0.00	0	WITH PIPE STUB & HALF BA 0	0.00
\$0.00	0	0	0.00
\$0.00	0	(2) HARP BRACELETS 0	0.00
\$0.00	0	WITH PIPE STUB & HALF BA 0	0.00
\$0.00	0	0	0.00
\$0.00	0	BANNER ARM (RIGID) 0	0.00
\$0.00	0	WITH HALF BALL PLUG 0	0.00
\$0.00	0	0	0.00
\$0.00	0	BANNER ARM (SPRING) 0	0.00
\$0.00	0	WITH HALF BALL PLUG 0	0.00
\$0.00	0	0	0.00

\$0.00	SECOND COLUMN TOTAL
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TOTAL COST	\$0.00
ADD 10% MISC. COST	\$0.00

MATERIAL TOTAL COST	\$0.00
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D.P.W. - CITY OF MILWAUKEE
TRAFFIC ENGINEERING AND ELECTRICAL SERVICES DIVISION
 2014 Street lighting Job Material Cost Sheet

Note: Installations listed as being "four" or less are considered as being done in a scattered type of operation where crews have to move from one job to another the same day.

Locations listed as "five or more" are considered as being done in one location where crews still normally remain for at least one full day.

LOCATION: 0
0
 DRG# 0 J.O. 0 W.O. 0
 DATE June 25, 2014 ENGINEERING BY 0

PERMANENT INSTALLATION				TEMPORARY INSTALLATION			
QTY.	TYPE OF WORK	UNIT COST	COST	QTY.	TYPE OF WORK	UNIT COST	COST
	Lay PVC-(conc.base not removed) trenching	\$23.30 /ft.	\$0.00		Dig hole and set Wood pole	\$272.00	\$0.00
	Lay PVC (where there is no base)	\$4.60 /ft.	\$0.00		Dig hole and set pole - 5 or more	\$173.00	\$0.00
	Lay PVC across driveways or walk (pav. project)	\$4.30 /ft.	\$0.00		Install riser (primary or secondary)	\$52.00	\$0.00
	Hole Hog PVC	\$5.62 /ft.	\$0.00		Install ballast	\$80.00	\$0.00
	Directional Boring PVC	\$6.76 /ft.	\$0.00		Install wood Cross-arm or Upend arm	\$26.00	\$0.00
	Lay Cable - minor job(400' or less)	\$1.80 /ft.	\$0.00		Install single line or UF cable / 100'	\$54.00	\$0.00
	Lay Cable - major job(401' or more)	\$1.30 /ft.	\$0.00		Install double line / 100'	\$79.00	\$0.00
	Install 1or 2 single cond.cables in 1 duct	\$2.20 /ft.	\$0.00		Install triple line / 100'	\$105.00	\$0.00
	Install wood or AT, JB, P, S, or UD, conc.poles	\$272.00	\$0.00		Install triplex wire / 100'	\$54.00	\$0.00
	Install H15, H17, A21, A26, A31 conc.poles	\$146.00	\$0.00		Install x-link poly wire / 100'	\$54.00	\$0.00
	Install direct burial Alum. Poles	\$146.00	\$0.00		Install anchor	\$173.00	\$0.00
	Install concrete base for Alum. Poles	\$400.00	\$0.00		Multiple splices in pedestal	\$48.00	\$0.00
	Install concrete base for Pedestrian poles	\$265.00	\$0.00				
	Install Alum. /Steel Octofluted pole on conc.Base	\$110.00	\$0.00			Column Total	\$0.00
	Install conc.pole on conc.base	\$146.00	\$0.00				
	Install Decorative Harp pole on conc.base	\$180.00	\$0.00				
	Install Decorative Lantern pole on conc.base	\$256.00	\$0.00				
	Install 2 fixture pedestrian pole	\$268.00	\$0.00				
	Install 4 fixture pedestrian pole	\$428.00	\$0.00				
	Saw pole for adapter bracket	\$107.00	\$0.00				
	Install transformer-series (4 or less)	\$219.00	\$0.00				
	Install transformer-series (5 or more)	\$182.00	\$0.00				
	Install transformer in transformer base	\$110.00	\$0.00				
	Install bracket arm and luminaire	\$90.00	\$0.00				
	Change luminaire	\$80.00	\$0.00				
	Install Ignitor	\$40.00	\$0.00				
	Secondary Splice-4 or less	\$75.00	\$0.00				
	Secondary Splice-5 or more	\$61.00	\$0.00				
	Splice - 1#8 primary	\$182.00	\$0.00				
	Splice - 2#8 primary	\$304.00	\$0.00				
	Splice - Y	\$304.00	\$0.00				
	Splice in pedestal or hand hole	\$55.00	\$0.00				
	Temporary fibre splice	\$95.00	\$0.00				
	Install ground and test station	\$300.00	\$0.00				
	Install pole mounted Substation	\$5,000.00	\$0.00				
	Install pad mounted Substation	\$22,000.00	\$0.00				
	Install pad mounted Secondary Service	\$8,000.00	\$0.00				
	Install / remove alley light	\$60.00	\$0.00				
	Break-out concrete walk	\$46.00 /sq.ft.	\$0.00				
	Saw cut concrete	\$4.70 /lin.ft.	\$0.00				
	Concrete patching-sidewalk	\$25.00 /sq.ft.	\$0.00				
	Sod Repairs	\$2.75 /sq.ft.	\$0.00				
	Install harp fixture	\$80.00	\$0.00				
	Install milw.lantern fixture	\$250.00	\$0.00				
	General Protect & Adjust cost	\$1,500.00 A Block	\$0.00				
	Install Pedestal	\$39.19	\$0.00				
	Install Vault Complete	\$73.12	\$0.00				
						Column Total	\$0.00

Column Total \$0.00

ENGINEERING COST ESTIMATE				
(Material Cost + Gross Labor + Equipment Services)(10%)(1.37)= Engineering Cost				
\$0.00	\$0.00	\$0.00	(10%)(1.37)	\$0.00

ANY WORK DURING THE FOLLOWING WINTER MONTHS OF DECEMBER, JANUARY, FEBRUARY, OR MARCH MUST HAVE AN ADDITIONAL 15% ADDED TO THE COST.

REVISED

January 22, 2013

PAGE 5

Labor Column Totals	\$	-
Subtract 15% Equipment Services	\$	-
Gross Labor	\$	-
Add 37.00% Capital Improvement	\$	-
Labor	\$	-
Add 15%Equipment Services	\$	-
Total Labor Cost	\$	-
Total Material Cost	\$	-
Total Engineering Cost	\$	-
Job Cost Total	\$	-
Capital Job Cost W/48% Applied Cost	\$	-
Job Cost Total w/ Additives & Applied Cost	\$	-
Labor 74.98%, Material 33.51%, Engineering 98.54%		
Job Cost Total With 15% Winter Cost If Needed	\$	-
Capital Job Cost W/Applied Cost Plus 15% for Winter Cost	\$	-
Job Cost Total w/ Additives & 15% Winter Cost If Needed	\$	-

COVER SHEET

JOB NUMBER: 0 W.O. 0 DRG.#		
LOCATION: 0 0		
		DATE
STARTED		
HOTLINE CLEARED #		
TEMPORARY POLES SET		
OVERHEAD INSTALLED		
PIPE IN		
HOTLINE CLEARED #		
PERMANENT POLES SET		
CABLE IN 1.)		
CABLE IN 2.)		
CABLE COMPLETE: 3)		
CUT OVER		
OVERHEAD REMOVED		
POLES REMOVED		
PATCH SHEETS		

CONCRETE PATCH		
MISCELLANEOUS		

NOTES:

COMMENTS:

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[illegible]

A diagram showing a horizontal line with a vertical line segment intersecting it from above. The vertical line segment is labeled 'a' and the horizontal line is labeled 'b'.

PROJECT INFO LOG

PROJECT LOCATION: 0

PROJECT LIMITS: 0

PROJECT ID. No.	
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PROJECT DESIGNER: 0

PROJECT LET DATE:

PROJECT START DATE:

ENGINEERING JOB No'S.	

SHOP JOB No'S.	0
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QUARTER SECTIONS:

CIR. MAPS:

SPECIAL LIGHTING DRWG No.s	
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HOTLINED DATE:

OVERHEAD SENT TO SHOP DATE:

OVERHEAD PAINTED IN DATE:

UNDERGROUND SENT TO SHOP DATE:

UNDERGROUND PAINTED IN DATE:

MISC. INFO:

PROJECT CONTACTS & PHONE #'S:[illegible][illegible]

