

PROJECT UNIT COST ANALYSIS
West Bluemound Road North 104th Street to North 106th Street

ESTIMATE OF QUANTITIES

PROJECT ID
1060-36-90
Zoo Interchange
MILWAUKEE COUNTY

Item No.	Description	Unit	Quantity	Excluded Costs	City Unit	City Total
90005-3	2.5" PVC CONDUIT (BASE IS REMOVED)	LF	240	\$ 307.44	\$ 9.07	\$ 2,176.74
90005-7	METAL PEDESTAL CABINET	EACH	5	\$ 184.55	\$ 110.54	\$ 552.72
90005-8	13"X24"X18" RECTANGULAR VAULT & COVER	EACH	3	\$ 761.54	\$ 391.24	\$ 1,173.72
90005-12	3#6/1#8 LTP UNDERGROUND CABLE	LF	600	\$ 1,166.07	\$ 4.17	\$ 2,500.16
90005-21	3#6 ALUMINUM TRIPLEX WIRE OVERHEAD WIRE	LF	560	\$ 426.34	\$ 1.74	\$ 976.14
90005-23	REMOVE OVERHEAD LINE WIRE	LF	560	\$ 37.13	\$ 1.05	\$ 586.93
90005-24	INSTALL WOOD POLE (35', 40', & 45) WITH GROUND ROD & BARE #6 WIRE	EACH	8	\$ 383.79	\$ 544.40	\$ 4,355.21
90005-27	INSTALL A31 CONCRETE POLE (GRAY) INCLUDES RISER CABLE	EACH	4	\$ 3,438.05	\$ 1,125.02	\$ 4,500.08
90005-47	REMOVE CONCRETE, WOOD, AND ALUMINUM POLE	EACH	12	\$ 205.08	\$ 382.72	\$ 4,592.58
90005-52	INSTALL 6'-0" UPSWEEP BRACKET (WOOD POLE MOUNTING)	EACH	8	\$ 745.69	\$ 166.85	\$ 1,334.76
90005-56	INSTALL A31 MOUNTING CLAMP DOUBLE BRACKET	EACH	4	\$ 197.05	\$ 73.81	\$ 295.23
90005-76	INSTALL 250W/240V COBRA FIXTURE & 250 WATT HIGH PRESSURE SODIUM LAMP	EACH	16	\$ 2,036.85	\$ 200.94	\$ 3,214.98
90005-103	HAND HOLE OR PEDESTAL SPLICE	EACH	5	\$ 10.69	\$ 70.51	\$ 352.57
90005-108	INSTALLATION OF PRIMARY / SECONDARY RISER	EACH	1	\$ 71.07	\$ 169.25	\$ 169.25
90005-109	REMOVAL OF PRIMARY / SECONDARY RISER	EACH	1	\$ 6.63	\$ 104.81	\$ 104.81
90005-110	BREAK OUT CONCRETE WALK	SQ.FT.	25	\$ 34.63	\$ 10.85	\$ 271.37
90005-111	SAW CUT CONCRETE	LIN.FT.	20	\$ 27.70	\$ 10.07	\$ 201.39
90005-112	CONCRETE RESTORATION (5" DEPTH)	SQ.FT.	25	\$ 48.11	\$ 23.56	\$ 588.90

TOTAL CITY COST \$27,962.23
TOTAL EXCLUDED COSTS \$10,103.10

APPROVED BY:

ROBERT W. BRYSON
CHIEF TRAFFIC AND LIGHTING ENGINEER

TRANSPORTATION SECTION
TRAFFIC AND LIGHTING DESIGN UNIT

Thomas Manzke
REVISED:

** Please note that the Total City Cost includes the embedded costs of mobilization and traffic control which are included in the times used for calculating City Unit Costs on the attached worksheets.

* These items are unique and have no comparable standard bid item equivalent. Therefore, they are not included in the comparison to bid cost.

CONDUCT, PEDESTAL, & VAULTS
CABLE
POLES & CONCRETE BASES
BRACKETS, CLAMPS, & CROSS ARM
FIXTURES
BALLASTS, SPLICES, & RISERS
CONCRETE WORK & SERVICE CABINETS

Project ID 1060-36-90
Highway Zoo Interchange

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-1 Item: 2.5" PVC CONDUIT (ACROSS DRIVEWAY)						
Quantity: Unit: LF						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Dump Truck (Med. & Lrg.)	0.100		\$5.77	\$	-
	Compressors	0.100		\$1.04	\$	-
Total Machinery Charges					\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Laborer Electrical Services	0.100		\$19.37	\$	-
	Laborer Electrical Services	0.100		\$19.37	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:	Item	Amount	Price	Total		
	2.5" PVC Conduit		\$0.50	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-2 Item: 2.5" PVC CONDUIT (HOLE HOG)						
Quantity: Unit: LF						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Dump Truck (Med. & Lrg.)	0.093		\$5.77	\$	-
	Compressors	0.093		\$1.04	\$	-
Total Machinery Charges					\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Laborer Electrical Services	0.093		\$19.37	\$	-
	Laborer Electrical Services	0.093		\$19.37	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:	Item	Amount	Price	Total		
	2.5" PVC Conduit		\$0.50	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-3 Item: 2.5" PVC CONDUIT (BASE IS REMOVED)						
Quantity: 240 Unit: LF						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Dump Truck (Med. & Lrg.)	0.107	25.680	\$5.77	\$	148.17
	Compressors	0.107	25.680	\$1.04	\$	26.71
					Total Machinery Charges	\$ 174.88
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Laborer Electrical Services	0.107	25.680	\$19.37	\$	497.42
	Laborer Electrical Services	0.107	25.680	\$19.37	\$	497.42
					Sub-Total Labor Cost	\$ 994.84
					Fringe Benefit Rate @ 91.84%	\$ 874.46
					Total Labor Cost	\$ 1,869.30
Material Costs:	Item	Amount	Price	Total		
	2.5" PVC Conduit	240	\$0.50	\$	120.36	
					Sub-Total Material Cost	\$ 120.36
					Indirect Cost Factor @ 12.21%	\$ 12.20
					Total Material Cost	\$ 132.56
					TOTAL COST	\$ 2,176.74
					Total Cost Per Unit	\$ 9.07
					Total Excluded Cost	\$ 307.44

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-4 Item: 2.5" PVC CONDUIT (BASE NOT REMOVED)						
Quantity: Unit: LF						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Dump Truck (Med. & Lrg.)	0.160		\$5.77	\$	-
	Compressors	0.160		\$1.04	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	0.160		\$31.05	\$	-
	Electrical Worker	0.160		\$22.70	\$	-
	Special Laborer Electrical Services	0.160		\$20.82	\$	-
	Special Laborer Electrical Services	0.160		\$20.82	\$	-
	Special Laborer Electrical Services	0.160		\$20.82	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
	2.5" PVC Conduit			\$0.50	\$	-
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-5						
Item: 2" PVC CONDUIT (DIRECTIONAL BORED)						
Quantity:						
Unit: LF						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Compressors	0.022		\$1.04	\$	-
	Constr. Equipment - Med	0.022		\$1.38	\$	-
	Dump Truck (Med. & Lrg.)	0.044		\$5.77	\$	-
	Trailers (Pole & Cable)	0.022		\$0.18	\$	-
Total Machinery Charges					\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Worker	0.022		\$22.70	\$	-
	Directional Boring Operator	0.022		\$27.56	\$	-
	Special Laborer Electrical Services	0.022		\$20.82	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	2" PVC Continuous Duct			\$0.79	\$	-
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-6						
Item: 3" PVC CONDUIT (DIRECTIONAL BORED)						
Quantity:						
Unit: LF						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Compressors	0.022		\$1.04	\$	-
	Constr. Equipment - Med	0.022		\$1.38	\$	-
	Dump Truck (Med. & Lrg.)	0.044		\$5.77	\$	-
	Trailers (Pole & Cable)	0.022		\$0.18	\$	-
Total Machinery Charges					\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Worker	0.022		\$22.70	\$	-
	Directional Boring Operator	0.022		\$27.56	\$	-
	Special Laborer Electrical Services	0.022		\$20.82	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	3" PVC Continuous Duct (Old Item# 1233730)			\$1.88	\$	-
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-7 Item: METAL PEDESTAL CABINET						
Quantity: 5 Unit: EACH						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Pickup	0.750	3.750	\$2.35	\$	8.81
Total Machinery Charges					\$	8.81
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.750	3.750	\$29.55	\$	110.81
	Electrical Worker	0.750	3.750	\$22.70	\$	85.13
Sub-Total Labor Cost					\$	195.94
Fringe Benefit Rate @ 91.84%					\$	172.23
Total Labor Cost					\$	368.17
Material Costs:	Item	Amount	Price	Total		
	metal pedestal housing (4"x4"x36")	5	\$31.91	\$	159.56	
Sub-Total Material Cost					\$	159.56
Indirect Cost Factor @ 12.21%					\$	16.18
Total Material Cost					\$	175.74
TOTAL COST					\$	552.72
Total Cost Per Unit					\$	110.54
Total Excluded Cost					\$	184.55

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-8 Item: 13"X24"X18" RECTANGULAR VAULT & COVER						
Quantity: 3 Unit: EACH						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Compressors	1.000	3.000	\$1.04	\$	3.12
	Pickup	1.000	3.000	\$2.35	\$	7.05
	Van [Heavy]	1.000	3.000	\$2.85	\$	8.55
Total Machinery Charges					\$	18.72
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	1.000	3.000	\$31.05	\$	93.15
	Electrical Worker	1.000	3.000	\$22.70	\$	68.10
	Laborer Electrical Services	1.000	3.000	\$19.37	\$	58.11
Sub-Total Labor Cost					\$	219.36
Fringe Benefit Rate @ 91.84%					\$	192.82
Total Labor Cost					\$	412.18
Material Costs:	Item	Amount	Price	Total		
	13"x24"x18" rectangular vault & cover	3	\$224.81	\$	674.43	
Sub-Total Material Cost					\$	674.43
Indirect Cost Factor @ 12.21%					\$	68.39
Total Material Cost					\$	742.82
TOTAL COST					\$	1,173.72
Total Cost Per Unit					\$	391.24
Total Excluded Cost					\$	761.54

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee							
Item Number: 90005-9 Item: 17"X30"X18" RECTANGULAR VAULT & COVER							
Quantity: Unit: EACH							
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total		
	Compressors	1.000		\$1.04	\$	-	
	Pickup	1.000		\$2.35	\$	-	
	Van [Heavy]	1.000		\$2.85	\$	-	
	Total Machinery Charges					\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total		
	Electrical Mechanic (crew chief)	1.000		\$31.05	\$	-	
	Electrical Worker	1.000		\$22.70	\$	-	
	Laborer Electrical Services	1.000		\$19.37	\$	-	
	Sub-Total Labor Cost					\$	-
	Fringe Benefit Rate @ 91.84%					\$	-
	Total Labor Cost					\$	-
Material Costs:	Item	Amount	Price	Total			
	17"x30"x18" rectangular vault & cover		\$269.23	\$	-		
	Sub-Total Material Cost					\$	-
	Indirect Cost Factor @ 12.21%					\$	-
	Total Material Cost					\$	-
	TOTAL COST					\$	-
	Total Cost Per Unit					#DIV/0!	
	Total Excluded Cost					\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee							
Item Number: 90005-10 Item: 3#2/1#8 LTP UNDERGROUND CABLE							
Quantity: Unit: LF							
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total		
	Dump Truck (Med. & Lrg.)	0.009		\$5.77	\$	-	
	Trailers (Pole & Cable)	0.009		\$0.18	\$	-	
	Total Machinery Charges					\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total		
	Electrical Mechanic (crew chief)	0.009		\$31.05	\$	-	
	Electrical Worker	0.009		\$22.70	\$	-	
	Special Laborer Electrical Services	0.009		\$20.82	\$	-	
	City Laborer Regular	0.009		\$18.97	\$	-	
	City Laborer Regular	0.009		\$18.97	\$	-	
	Sub-Total Labor Cost					\$	-
	Fringe Benefit Rate @ 91.84%					\$	-
	Total Labor Cost					\$	-
Material Costs:	Item	Amount	Price	Total			
	3#2/1#8 LTP cable - secondary		\$3.64	\$	-		
	Sub-Total Material Cost					\$	-
	Indirect Cost Factor @ 12.21%					\$	-
	Total Material Cost					\$	-
	TOTAL COST					\$	-
	Total Cost Per Unit					#DIV/0!	
	Total Excluded Cost					\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-11 Item: 3#4/1#8 LTP UNDERGROUND CABLE						
Quantity: LF Unit: LF						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Dump Truck (Med. & Lrg.)	0.009		\$5.77	\$	-
	Trailers (Pole & Cable)	0.009		\$0.18	\$	-
Total Machinery Charges					\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	0.009		\$31.05	\$	-
	Electrical Worker	0.009		\$22.70	\$	-
	Special Laborer Electrical Services	0.009		\$20.82	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:	Item	Amount	Price	Total		
	3#4/1#8 LTP cable - secondary		\$2.61	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-12 Item: 3#6/1#8 LTP UNDERGROUND CABLE						
Quantity: 600 Unit: LF						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Dump Truck (Med. & Lrg.)	0.009	5.400	\$5.77	\$	31.16
	Trailers (Pole & Cable)	0.009	5.400	\$0.18	\$	0.97
Total Machinery Charges					\$	32.13
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	0.009	5.400	\$31.05	\$	167.67
	Electrical Worker	0.009	5.400	\$22.70	\$	122.58
	Special Laborer Electrical Services	0.009	5.400	\$20.82	\$	112.43
	City Laborer Regular	0.009	5.400	\$18.97	\$	102.44
	City Laborer Regular	0.009	5.400	\$18.97	\$	102.44
	City Laborer Regular	0.009	5.400	\$18.97	\$	102.44
Sub-Total Labor Cost					\$	710.00
Fringe Benefit Rate @ 91.84%					\$	624.09
Total Labor Cost					\$	1,334.09
Material Costs:	Item	Amount	Price	Total		
	3#6/1#8 LTP cable - secondary	600	\$1.72	\$	1,029.54	
Sub-Total Material Cost					\$	1,029.54
Indirect Cost Factor @ 12.21%					\$	104.40
Total Material Cost					\$	1,133.94
TOTAL COST					\$	2,500.16
Total Cost Per Unit					\$	4.17
Total Excluded Cost					\$	1,166.07

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-13 Item: 3#8/1#8 LTP UNDERGROUND CABLE						
Quantity: Unit: LF						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Dump Truck (Med. & Lrg.)	0.009		\$5.77	\$	-
	Trailers (Pole & Cable)	0.009		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	0.009		\$31.05	\$	-
	Electrical Worker	0.009		\$22.70	\$	-
	Special Laborer Electrical Services	0.009		\$20.82	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	3#8/1#8 LTP cablr - secondary		\$1.14	\$	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-14 Item: 3#10 WITH GROUND UF UNDERGROUND CABLE						
Quantity: Unit: LF						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Dump Truck (Med. & Lrg.)	0.009		\$5.77	\$	-
	Trailers (Pole & Cable)	0.009		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	0.009		\$31.05	\$	-
	Electrical Worker	0.009		\$22.70	\$	-
	Special Laborer Electrical Services	0.009		\$20.82	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	3#10 UF cable - secondary		\$1.02	\$	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-15 Item: 3#12 UF W / GROUND UNDERGROUND CABLE						
Quantity: Unit: LF						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Dump Truck (Med. & Lrg.)	0.009		\$5.77	\$	-
	Trailers (Pole & Cable)	0.009		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	0.009		\$31.05	\$	-
	Electrical Worker	0.009		\$22.70	\$	-
	Special Laborer Electrical Services	0.009		\$20.82	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	3#12 UF w/grd. cable - secondary		\$0.66	\$	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-16 Item: 3#12 UF UNDERGROUND CABLE						
Quantity: Unit: LF						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Dump Truck (Med. & Lrg.)	0.009		\$5.77	\$	-
	Trailers (Pole & Cable)	0.009		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	0.009		\$31.05	\$	-
	Electrical Worker	0.009		\$22.70	\$	-
	Special Laborer Electrical Services	0.009		\$20.82	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	3#12 UF cable - secondary		\$0.66	\$	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-17 Item: 2#12 UF UNDERGROUND CABLE						
Quantity: Unit: LF						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Dump Truck (Med. & Lrg.)	0.009		\$5.77	\$	-
	Trailers (Pole & Cable)	0.009		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	0.009		\$31.05	\$	-
	Electrical Worker	0.009		\$22.70	\$	-
	Special Laborer Electrical Services	0.009		\$20.82	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
	City Laborer Regular	0.009		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	2#12 UF cable - secondary		\$0.45	\$	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-18 Item: 1#8 CONCENTRIC UNDERGROUND CABLE						
Quantity: Unit: LF						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Dump Truck (Med. & Lrg.)	0.009		\$5.77	\$	-
	Trailers (Pole & Cable)	0.009		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic	0.010		\$29.55	\$	-
	Electrical Worker	0.010		\$22.70	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	1#8 concentric cable - primary		\$1.67	\$	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-19 Item: 2#2/1#4 ALUMINUM TRIPLEX WIRE OVERHEAD WIRE						
Quantity: Unit: LF						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Aerial/Boom Trucks	0.010		\$6.63	\$	-
	Trailers (Pole & Cable)	0.010		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic	0.010		\$29.55	\$	-
	Electrical Worker	0.010		\$22.70	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>		<u>Price</u>	<u>Total</u>	
	2#2/1#4 al. triplex cable - secondary			\$0.34	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-20 Item: 2#4/1#6 ALUMINUM TRIPLEX WIRE OVERHEAD WIRE						
Quantity: Unit: LF						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Aerial/Boom Trucks	0.010		\$6.63	\$	-
	Trailers (Pole & Cable)	0.010		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic	0.010		\$29.55	\$	-
	Electrical Worker	0.010		\$22.70	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>		<u>Price</u>	<u>Total</u>	
	2#4/1#6 al. triplex cable - secondary			\$0.90	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-21**
 Item: **3#6 ALUMINUM TRIPLEX WIRE OVERHEAD WIRE**

Quantity: 560
 Unit: LF

Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Aerial/Boom Trucks	0.010	5.600	\$6.63	\$ 37.13
	Trailers (Pole & Cable)	0.010	5.600	\$0.18	\$ 1.01
Total Machinery Charges					\$ 38.14
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	0.010	5.600	\$29.55	\$ 165.48
	Electrical Worker	0.010	5.600	\$22.70	\$ 127.12
Sub-Total Labor Cost					\$ 292.60
Fringe Benefit Rate @ 91.84%					\$ 257.20
Total Labor Cost					\$ 549.80
Material Costs:	Item	Amount	Price	Total	
	3#6 al. Triplex cable - secondary	560	\$0.63	\$ 352.46	
Sub-Total Material Cost					\$ 352.46
Indirect Cost Factor @ 12.21%					\$ 35.74
Total Material Cost					\$ 388.20
TOTAL COST					\$ 976.14
Total Cost Per Unit					\$ 1.74
Total Excluded Cost					\$ 426.34

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-22**
 Item: **1#6 PRIMARY LINE WIRE OVERHEAD WIRE**

Quantity:
 Unit: LF

Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Aerial/Boom Trucks	0.010		\$6.63	\$ -
	Trailers (Pole & Cable)	0.010		\$0.18	\$ -
Total Machinery Charges					\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	0.010		\$29.55	\$ -
	Electrical Worker	0.010		\$22.70	\$ -
Sub-Total Labor Cost					\$ -
Fringe Benefit Rate @ 91.84%					\$ -
Total Labor Cost					\$ -
Material Costs:	Item	Amount	Price	Total	
	1#6 primary line wire		\$0.74	\$ -	
Sub-Total Material Cost					\$ -
Indirect Cost Factor @ 12.21%					\$ -
Total Material Cost					\$ -
TOTAL COST					\$ -
Total Cost Per Unit					#DIV/0!
Total Excluded Cost					\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-23 Item: REMOVE OVERHEAD LINE WIRE						
Quantity: 560 Unit: LF.						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Aerial/Boom Trucks	0.010	5.600	\$6.63	\$	37.13
Total Machinery Charges					\$	37.13
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic	0.010	5.600	\$29.55	\$	165.48
	Electrical Worker	0.010	5.600	\$22.70	\$	127.12
Sub-Total Labor Cost					\$	292.60
Fringe Benefit Rate @ 91.84%					\$	257.20
Total Labor Cost					\$	549.80
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	586.93
Total Cost Per Unit					\$	1.05
Total Excluded Cost					\$	37.13

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-24 Item: INSTALL WOOD POLE (35',40', & 45) WITH GROUND ROD & BARE #6 WIRE						
Quantity: 8 Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Constr. Equipment - Large	1.500	12.000	\$7.85	\$	94.20
	Dump Truck (Small)	1.500	12.000	\$3.63	\$	43.56
	Trailers (Pole & Cable)	1.500	12.000	\$0.18	\$	2.16
	Pickup	2.000	16.000	\$2.35	\$	37.60
Total Machinery Charges					\$	177.52
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	1.500	12.000	\$31.05	\$	372.60
	Electrical Mechanic	2.750	22.000	\$29.55	\$	650.10
	Electrical Worker	3.500	28.000	\$22.70	\$	635.60
	City Laborer Regular	3.000	24.000	\$18.97	\$	455.28
Sub-Total Labor Cost					\$	2,113.58
Fringe Benefit Rate @ 91.84%					\$	1,857.84
Total Labor Cost					\$	3,971.42
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	35 ft. wood pole	8	\$0.02	\$	0.16	
	5/8" x 8' ground rod (Old Item# 1278870)	8	\$10.00	\$	80.00	
	Wire type TW #6 stranded, black	8	\$13.39	\$	107.12	
Sub-Total Material Cost					\$	187.28
Indirect Cost Factor @ 12.21%					\$	18.99
Total Material Cost					\$	206.27
TOTAL COST					\$	4,355.21
Total Cost Per Unit					\$	544.40
Total Excluded Cost					\$	383.79

Project ID: 1060-36-90							
Highway: Zoo Interchange							
County: Milwaukee							
Item Number: 90005-25							
Item: INSTALL A21 CONCRETE POLE (GRAY) INCLUDES RISER CABLE							
Quantity:							
Unit: EACH							
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>		
	Constr. Equipment - Large	1.500		\$7.85	\$	-	
	Dump Truck (Small)	1.500		\$3.63	\$	-	
	Trailers (Pole & Cable)	1.500		\$0.18	\$	-	
	Total Machinery Charges					\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>		
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$	-	
	Electrical Worker	1.666		\$22.70	\$	-	
	City Laborer Regular	1.500		\$18.97	\$	-	
	City Laborer Regular	1.500		\$18.97	\$	-	
	Sub-Total Labor Cost					\$	-
	Fringe Benefit Rate @ 91.84%					\$	-
	Total Labor Cost					\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>			
	A21 concrete pole direct burial		\$620.00	\$	-		
	3#12 UF cable - secondary		\$17.88	\$	-		
	Sub-Total Material Cost					\$	-
	Indirect Cost Factor @ 12.21%					\$	-
	Total Material Cost					\$	-
	TOTAL COST					\$	-
	Total Cost Per Unit					#DIV/0!	
	Total Excluded Cost					\$	-

Project ID: 1060-36-90							
Highway: Zoo Interchange							
County: Milwaukee							
Item Number: 90005-26							
Item: INSTALL A26 CONCRETE POLE (GRAY) INCLUDES RISER CABLE							
Quantity:							
Unit: EACH							
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>		
	Constr. Equipment - Large	1.500		\$7.85	\$	-	
	Dump Truck (Small)	1.500		\$3.63	\$	-	
	Trailers (Pole & Cable)	1.500		\$0.18	\$	-	
	Total Machinery Charges					\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>		
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$	-	
	Electrical Worker	1.666		\$22.70	\$	-	
	City Laborer Regular	1.500		\$18.97	\$	-	
	City Laborer Regular	1.500		\$18.97	\$	-	
	Sub-Total Labor Cost					\$	-
	Fringe Benefit Rate @ 91.84%					\$	-
	Total Labor Cost					\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>			
	A26 concrete pole direct burial		\$660.00	\$	-		
	3#12 UF cable - secondary		\$21.19	\$	-		
	Sub-Total Material Cost					\$	-
	Indirect Cost Factor @ 12.21%					\$	-
	Total Material Cost					\$	-
	TOTAL COST					\$	-
	Total Cost Per Unit					#DIV/0!	
	Total Excluded Cost					\$	-

Project ID: 1060-36-90							
Highway: Zoo Interchange							
County: Milwaukee							
Item Number: 90005-27							
Item: INSTALL A31 CONCRETE POLE (GRAY) INCLUDES RISER CABLE							
Quantity: 4							
Unit: EACH							
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>		
	Constr. Equipment - Large	1.500	6.000	\$7.85	\$	47.10	
	Dump Truck (Small)	1.500	6.000	\$3.63	\$	21.78	
	Trailers (Pole & Cable)	1.500	6.000	\$0.18	\$	1.08	
	Total Machinery Charges					\$	69.96
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>		
	Electrical Mechanic (crew chief)	1.500	6.000	\$31.05	\$	186.30	
	Electrical Worker	1.666	6.664	\$22.70	\$	151.27	
	City Laborer Regular	1.500	6.000	\$18.97	\$	113.82	
	City Laborer Regular	1.500	6.000	\$18.97	\$	113.82	
	Sub-Total Labor Cost					\$	565.21
	Fringe Benefit Rate @ 91.84%					\$	496.82
	Total Labor Cost					\$	1,062.03
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>			
	A31 concrete pole direct burial (Gray)	4	\$740.00	\$	2,960.00		
	3#12 UF cable - secondary	4	\$24.50	\$	98.01		
	Sub-Total Material Cost					\$	3,058.01
	Indirect Cost Factor @ 12.21%					\$	310.08
	Total Material Cost					\$	3,368.09
	TOTAL COST					\$	4,500.08
	Total Cost Per Unit					\$	1,125.02
	Total Excluded Cost					\$	3,438.05

Project ID: 1060-36-90							
Highway: Zoo Interchange							
County: Milwaukee							
Item Number: 90005-28							
Item: INSTALL A31 CONCRETE POLE (BLACK) INCLUDES RISER CABLE							
Quantity:							
Unit: EACH							
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>		
	Constr. Equipment - Large	1.500		\$7.85	\$	-	
	Dump Truck (Small)	1.500		\$3.63	\$	-	
	Trailers (Pole & Cable)	1.500		\$0.18	\$	-	
	Total Machinery Charges					\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>		
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$	-	
	Electrical Worker	1.666		\$22.70	\$	-	
	City Laborer Regular	1.500		\$18.97	\$	-	
	City Laborer Regular	1.500		\$18.97	\$	-	
	Sub-Total Labor Cost					\$	-
	Fringe Benefit Rate @ 91.84%					\$	-
	Total Labor Cost					\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>			
	A31 concrete pole direct burial (Black)		\$1,250.00	\$	-		
	3#12 UF cable - secondary		\$24.50	\$	-		
	Sub-Total Material Cost					\$	-
	Indirect Cost Factor @ 12.21%					\$	-
	Total Material Cost					\$	-
	TOTAL COST					\$	-
	Total Cost Per Unit					#DIV/0!	
	Total Excluded Cost					\$	-

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-29						
Item: INSTALL BOLT DOWN A31 CONCRETE POLE (BLACK) INCLUDES RISER CABLE						
Quantity:						
Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Constr. Equipment - Large	1.500		\$7.85	\$	-
	Dump Truck (Small)	1.500		\$3.63	\$	-
	Trailers (Pole & Cable)	1.500		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$	-
	Electrical Worker	1.666		\$22.70	\$	-
	City Laborer Regular	1.500		\$18.97	\$	-
	City Laborer Regular	1.500		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>		<u>Price</u>	<u>Total</u>	
	A31 concrete pole Bolt Down (Black)			\$1,500.00	\$	-
	3#12 UF cable - secondary			\$24.50	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-30						
Item: INSTALL AT-31R CONCRETE POLE (GRAY OR BLACK) INCLUDES RISER CABLE						
Quantity:						
Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Constr. Equipment - Large	3.000		\$7.85	\$	-
	Dump Truck (Small)	3.000		\$3.63	\$	-
	Trailers (Pole & Cable)	3.000		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	3.000		\$31.05	\$	-
	Electrical Worker	3.167		\$22.70	\$	-
	City Laborer Regular	3.000		\$18.97	\$	-
	City Laborer Regular	3.000		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>		<u>Price</u>	<u>Total</u>	
	AT-31R concrete pole direct burial			\$1,628.57	\$	-
	3#12 UF cable - secondary			\$24.50	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-31						
Item: INSTALL H15 CONCRETE POLE INCLUDES RISER CABLE						
Quantity:						
Unit: EACH						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Constr. Equipment - Large	1.500		\$7.85	\$	-
	Dump Truck (Small)	1.500		\$3.63	\$	-
	Trailers (Pole & Cable)	1.500		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$	-
	Electrical Worker	1.666		\$22.70	\$	-
	City Laborer Regular	1.500		\$18.97	\$	-
	City Laborer Regular	1.500		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	Item	Amount	Price	Total		
	H15 concrete pole 13' diect burial		\$620.83	\$	-	
	3#12 UF cable - secondary		\$11.92	\$	-	
			Sub-Total Material Cost	\$	-	
			Indirect Cost Factor @ 12.21%	\$	-	
			Total Material Cost	\$	-	
			TOTAL COST	\$	-	
			Total Cost Per Unit	#DIV/0!		
			Total Excluded Cost	\$	-	

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-32						
Item: INSTALL H17 CONCRETE POLE INCLUDES RISER CABLE						
Quantity:						
Unit: EACH						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Constr. Equipment - Large	1.500		\$7.85	\$	-
	Dump Truck (Small)	1.500		\$3.63	\$	-
	Trailers (Pole & Cable)	1.500		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$	-
	Electrical Worker	1.666		\$22.70	\$	-
	City Laborer Regular	1.500		\$18.97	\$	-
	City Laborer Regular	1.500		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	Item	Amount	Price	Total		
	H17 concrete pole 15' direct burial		\$727.98	\$	-	
	3#12 UF cable - secondary		\$13.91	\$	-	
			Sub-Total Material Cost	\$	-	
			Indirect Cost Factor @ 12.21%	\$	-	
			Total Material Cost	\$	-	
			TOTAL COST	\$	-	
			Total Cost Per Unit	#DIV/0!		
			Total Excluded Cost	\$	-	

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-33						
Item: INSTALL 13 FT. BLACK STEEL OCTAFLUTED POLE INCLUDES RISER CABLE						
Quantity:						
Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Constr. Equipment - Large	1.500		\$7.85	\$ -	
	Dump Truck (Small)	1.500		\$3.63	\$ -	
	Trailers (Pole & Cable)	1.500		\$0.18	\$ -	
				Total Machinery Charges	\$ -	
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$ -	
	Electrical Worker	1.666		\$22.70	\$ -	
	City Laborer Regular	1.500		\$18.97	\$ -	
	City Laborer Regular	1.500		\$18.97	\$ -	
				Sub-Total Labor Cost	\$ -	
				Fringe Benefit Rate @ 91.84%	\$ -	
				Total Labor Cost	\$ -	
Material Costs:	<u>Item</u>	<u>Amount</u>		<u>Price</u>	<u>Total</u>	
	13' black bolt down steel pole (octafluted)			\$759.50	\$ -	
	3#12 UF cable - secondary			\$11.92	\$ -	
				Sub-Total Material Cost	\$ -	
				Indirect Cost Factor @ 12.21%	\$ -	
				Total Material Cost	\$ -	
				TOTAL COST	\$ -	
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$ -	

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-34						
Item: INSTALL 15 FT. BLACK STEEL OCTAFLUTED POLE INCLUDES RISER CABLE						
Quantity:						
Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Constr. Equipment - Large	1.500		\$7.85	\$ -	
	Dump Truck (Small)	1.500		\$3.63	\$ -	
	Trailers (Pole & Cable)	1.500		\$0.18	\$ -	
				Total Machinery Charges	\$ -	
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$ -	
	Electrical Worker	1.666		\$22.70	\$ -	
	City Laborer Regular	1.500		\$18.97	\$ -	
	City Laborer Regular	1.500		\$18.97	\$ -	
				Sub-Total Labor Cost	\$ -	
				Fringe Benefit Rate @ 91.84%	\$ -	
				Total Labor Cost	\$ -	
Material Costs:	<u>Item</u>	<u>Amount</u>		<u>Price</u>	<u>Total</u>	
	15' black bolt down steel pole (octafluted)			\$885.81	\$ -	
	3#12 UF cable - secondary			\$13.91	\$ -	
				Sub-Total Material Cost	\$ -	
				Indirect Cost Factor @ 12.21%	\$ -	
				Total Material Cost	\$ -	
				TOTAL COST	\$ -	
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$ -	

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-35**
 Item: **INSTALL 22 FT. ALUMINUM POLE (DIRECT BURIAL) INCLUDES RISER CABLE**

Quantity:
 Unit: EACH

Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Constr. Equipment - Large	1.500		\$7.85	\$ -
	Dump Truck (Small)	1.500		\$3.63	\$ -
	Trailers (Pole & Cable)	1.500		\$0.18	\$ -
				Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$ -
	Electrical Worker	1.666		\$22.70	\$ -
	City Laborer Regular	1.500		\$18.97	\$ -
	City Laborer Regular	1.500		\$18.97	\$ -
				Sub-Total Labor Cost	\$ -
				Fringe Benefit Rate @ 91.84%	\$ -
				Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total	
	22' aluminum pole direct burial		\$322.73	\$ -	
	3#12 UF cable - secondary		\$17.88	\$ -	
			Sub-Total Material Cost	\$ -	
			Indirect Cost Factor @ 12.21%	\$ -	
			Total Material Cost	\$ -	
			TOTAL COST	\$ -	
			Total Cost Per Unit	#DIV/0!	
			Total Excluded Cost	\$ -	

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-36**
 Item: **INSTALL 26 FT. ALUMINUM POLE (DIRECT BURIAL) INCLUDES RISER CABLE**

Quantity:
 Unit: EACH

Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Constr. Equipment - Large	1.500		\$7.85	\$ -
	Dump Truck (Small)	1.500		\$3.63	\$ -
	Trailers (Pole & Cable)	1.500		\$0.18	\$ -
				Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$ -
	Electrical Worker	1.666		\$22.70	\$ -
	City Laborer Regular	1.500		\$18.97	\$ -
	City Laborer Regular	1.500		\$18.97	\$ -
				Sub-Total Labor Cost	\$ -
				Fringe Benefit Rate @ 91.84%	\$ -
				Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total	
	26' aluminum pole direct burial		\$380.00	\$ -	
	3#12 UF cable - secondary		\$21.19	\$ -	
			Sub-Total Material Cost	\$ -	
			Indirect Cost Factor @ 12.21%	\$ -	
			Total Material Cost	\$ -	
			TOTAL COST	\$ -	
			Total Cost Per Unit	#DIV/0!	
			Total Excluded Cost	\$ -	

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-37						
Item: INSTALL 31 FT. ALUMINUM POLE (DIRECT BURIAL) INCLUDES RISER CABLE						
Quantity:						
Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Constr. Equipment - Large	1.500		\$7.85	\$ -	
	Dump Truck (Small)	1.500		\$3.63	\$ -	
	Trailers (Pole & Cable)	1.500		\$0.18	\$ -	
	Total Machinery Charges				\$ -	
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$ -	
	Electrical Worker	1.666		\$22.70	\$ -	
	City Laborer Regular	1.500		\$18.97	\$ -	
	City Laborer Regular	1.500		\$18.97	\$ -	
	Sub-Total Labor Cost				\$ -	
	Fringe Benefit Rate @ 91.84%				\$ -	
	Total Labor Cost				\$ -	
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	31' aluminum pole direct burial		\$463.47	\$ -		
	3#12 UF cable - secondary		\$24.50	\$ -		
	Sub-Total Material Cost				\$ -	
	Indirect Cost Factor @ 12.21%				\$ -	
	Total Material Cost				\$ -	
	TOTAL COST				\$ -	
	Total Cost Per Unit				#DIV/0!	
	Total Excluded Cost				\$ -	

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-38						
Item: INSTALL 25 FT. ALUMINUM POLE (BOLT DOWN) INCLUDES RISER CABLE						
Quantity:						
Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Constr. Equipment - Large	1.500		\$7.85	\$ -	
	Dump Truck (Small)	1.500		\$3.63	\$ -	
	Trailers (Pole & Cable)	1.500		\$0.18	\$ -	
	Total Machinery Charges				\$ -	
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$ -	
	Electrical Worker	1.666		\$22.70	\$ -	
	City Laborer Regular	1.500		\$18.97	\$ -	
	City Laborer Regular	1.500		\$18.97	\$ -	
	Sub-Total Labor Cost				\$ -	
	Fringe Benefit Rate @ 91.84%				\$ -	
	Total Labor Cost				\$ -	
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	25' aluminum bolt down pole		\$390.00	\$ -		
	3#12 UF cable - secondary		\$20.53	\$ -		
	Sub-Total Material Cost				\$ -	
	Indirect Cost Factor @ 12.21%				\$ -	
	Total Material Cost				\$ -	
	TOTAL COST				\$ -	
	Total Cost Per Unit				#DIV/0!	
	Total Excluded Cost				\$ -	

Project ID: 1060-36-90					
Highway: Zoo Interchange					
County: Milwaukee					
Item Number: 90005-39					
Item: INSTALL 30 FT. ALUMINUM POLE (BOLT DOWN) INCLUDES RISER CABLE					
Quantity:					
Unit: EACH					
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Constr. Equipment - Large	1.500		\$7.85	\$ -
	Dump Truck (Small)	1.500		\$3.63	\$ -
	Trailers (Pole & Cable)	1.500		\$0.18	\$ -
				Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$ -
	Electrical Worker	1.666		\$22.70	\$ -
	City Laborer Regular	1.500		\$18.97	\$ -
	City Laborer Regular	1.500		\$18.97	\$ -
				Sub-Total Labor Cost	\$ -
				Fringe Benefit Rate @ 91.84%	\$ -
				Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total	
	30' aluminum bolt down pole		\$432.02	\$ -	
	3#12 UF cable - secondary		\$23.84	\$ -	
			Sub-Total Material Cost	\$ -	
			Indirect Cost Factor @ 12.21%	\$ -	
			Total Material Cost	\$ -	
			TOTAL COST	\$ -	
			Total Cost Per Unit	#DIV/0!	
			Total Excluded Cost	\$ -	

Project ID: 1060-36-90					
Highway: Zoo Interchange					
County: Milwaukee					
Item Number: 90005-40					
Item: INSTALL 13 FT. GREEN STEEL OCTAFLUTED POLE INCLUDES RISER CABLE					
Quantity:					
Unit: EACH					
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Constr. Equipment - Large	1.500		\$7.85	\$ -
	Dump Truck (Small)	1.500		\$3.63	\$ -
	Trailers (Pole & Cable)	1.500		\$0.18	\$ -
				Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$ -
	Electrical Worker	1.666		\$22.70	\$ -
	City Laborer Regular	1.500		\$18.97	\$ -
	City Laborer Regular	1.500		\$18.97	\$ -
				Sub-Total Labor Cost	\$ -
				Fringe Benefit Rate @ 91.84%	\$ -
				Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total	
	13' green bolt down steel pole (octafluted)		\$759.50	\$ -	
	3#12 UF cable - secondary		\$11.92	\$ -	
			Sub-Total Material Cost	\$ -	
			Indirect Cost Factor @ 12.21%	\$ -	
			Total Material Cost	\$ -	
			TOTAL COST	\$ -	
			Total Cost Per Unit	#DIV/0!	
			Total Excluded Cost	\$ -	

Project ID:	1060-36-90				
Highway:	Zoo Interchange				
County:	Milwaukee				
Item Number:	90005-41				
Item:	INSTALL 15 FT. GREEN STEEL OCTAFLUTED POLE INCLUDES RISER CABLE				
Quantity:	EACH				
Unit:	EACH				
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Constr. Equipment - Large	1.500		\$7.85	\$ -
	Dump Truck (Small)	1.500		\$3.63	\$ -
	Trailers (Pole & Cable)	1.500		\$0.18	\$ -
				Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$ -
	Electrical Worker	1.666		\$22.70	\$ -
	City Laborer Regular	1.500		\$18.97	\$ -
	City Laborer Regular	1.500		\$18.97	\$ -
				Sub-Total Labor Cost	\$ -
				Fringe Benefit Rate @ 91.84%	\$ -
				Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total	
	15' green bolt down steel pole (octafluted)		\$899.00	\$ -	
	3#12 UF cable - secondary		\$13.91	\$ -	
				Sub-Total Material Cost	\$ -
				Indirect Cost Factor @ 12.21%	\$ -
				Total Material Cost	\$ -
				TOTAL COST	\$ -
				Total Cost Per Unit	#DIV/0!
				Total Excluded Cost	\$ -

Project ID:	1060-36-90				
Highway:	Zoo Interchange				
County:	Milwaukee				
Item Number:	90005-42				
Item:	14.7" BLACK STEEL POLE WITH DECORATIVE BASE ON EXISTING CONCRETE BASE, 70W/240 VOLT HARP FIXTURE, WITH A HIGH PRESSURE SODIUM LAMP (INCLUDE RISER CABLE)				
Quantity:	EACH				
Unit:	EACH				
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Constr. Equipment - Large	1.000		\$7.85	\$ -
	Dump Truck (Small)	1.000		\$3.63	\$ -
	Trailers (Pole & Cable)	1.000		\$0.18	\$ -
	Aerial/Boom Trucks	0.750		\$6.63	\$ -
	Pickup	1.000		\$2.35	\$ -
				Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic (crew chief)	1.000		\$31.05	\$ -
	Electrical Mechanic	1.750		\$29.55	\$ -
	Electrical Worker	1.750		\$22.70	\$ -
	City Laborer Regular	3.000		\$18.97	\$ -
				Sub-Total Labor Cost	\$ -
				Fringe Benefit Rate @ 91.84%	\$ -
				Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total	
	14.7" Harp pole steel/cast iron base/2 bracelets		\$7,239.00	\$ -	
	70w Milwaukee harp fixture black		\$733.62	\$ -	
	70 watt H.P.S. lamp		\$12.13	\$ -	
	3#12 UF cable - secondary		\$11.26	\$ -	
				Sub-Total Material Cost	\$ -
				Indirect Cost Factor @ 12.21%	\$ -
				Total Material Cost	\$ -
				TOTAL COST	\$ -
				Total Cost Per Unit	#DIV/0!
				Total Excluded Cost	\$ -

Project ID:	1060-36-90				
Highway:	Zoo Interchange				
County:	Milwaukee				
Item Number:	90005-43				
Item:	14.7' BLACK STEEL POLE WITH DECORATIVE BASE ON EXISTING CONCRETE BASE, 150W/240 VOLT HARP FIXTURE WITH OUTLET, & 150 WATT HIGH PRESSURE SODIUM LAMP (INCLUDE RISER CABLE)				
Quantity:					
Unit:	EACH				
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Constr. Equipment - Large	1.000		\$7.85	\$ -
	Dump Truck (Small)	1.000		\$3.63	\$ -
	Trailers (Pole & Cable)	1.000		\$0.18	\$ -
	Aerial/Boom Trucks	0.750		\$6.63	\$ -
	Pickup	1.000		\$2.35	\$ -
				Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic (crew chief)	1.000		\$31.05	\$ -
	Electrical Mechanic	1.750		\$29.55	\$ -
	Electrical Worker	1.750		\$22.70	\$ -
	City Laborer Regular	3.000		\$18.97	\$ -
				Sub-Total Labor Cost	\$ -
				Fringe Benefit Rate @ 91.84%	\$ -
				Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total	
	14.7' Harp pole steel/cast iron base/2 bracelets		\$7,239.00	\$ -	
	150w/240v.Milwaukee harp fixture black with outlet		\$830.00	\$ -	
	150 watt H.P.S. lamp		\$10.17	\$ -	
	3#12 UF cable - secondary		\$11.26	\$ -	
			Sub-Total Material Cost	\$ -	
			Indirect Cost Factor @ 12.21%	\$ -	
			Total Material Cost	\$ -	
			TOTAL COST	\$ -	
			Total Cost Per Unit	#DIV/0!	
			Total Excluded Cost	\$ -	

Project ID:	1060-36-90				
Highway:	Zoo Interchange				
County:	Milwaukee				
Item Number:	90005-44				
Item:	14.7' BLACK STEEL POLE WITH DECORATIVE BASE ON EXISTING CONCRETE BASE, MOUNTING ARM FOR DOUBLE HARPS, TWO (2)-150W/240 VOLT HARPS FIXTURES, WITH TWO (2) HIGH PRESSURE SODIUM LAMPS (INCLUDE RISER CABLE)				
Quantity:					
Unit:	EACH				
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Constr. Equipment - Large	1.000		\$7.85	\$ -
	Dump Truck (Small)	1.000		\$3.63	\$ -
	Trailers (Pole & Cable)	1.000		\$0.18	\$ -
	Aerial/Boom Trucks	1.500		\$6.63	\$ -
	Pickup	1.000		\$2.35	\$ -
				Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic (crew chief)	1.000		\$31.05	\$ -
	Electrical Mechanic	2.500		\$29.55	\$ -
	Electrical Worker	2.500		\$22.70	\$ -
	City Laborer Regular	3.000		\$18.97	\$ -
				Sub-Total Labor Cost	\$ -
				Fringe Benefit Rate @ 91.84%	\$ -
				Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total	
	14.7' Harp pole steel/cast iron base/2 bracelets		\$7,239.00	\$ -	
	Double harp arm		\$389.07	\$ -	
	150w/240v.Milwaukee harp fixture black with outlet		\$830.00	\$ -	
	150 watt H.P.S. lamp		\$10.17	\$ -	
	3#12 UF cable - secondary		\$11.26	\$ -	
			Sub-Total Material Cost	\$ -	
			Indirect Cost Factor @ 12.21%	\$ -	
			Total Material Cost	\$ -	
			TOTAL COST	\$ -	
			Total Cost Per Unit	#DIV/0!	
			Total Excluded Cost	\$ -	

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-45						
Item: 30' BLACK STEEL POLE WITH DECORATIVE BASE ON EXISTING CONCRETE BASE, 150W/240 VOLT MILWAUKEE LANTERN BRACKET & MILWAUKEE LANTERN FIXTURE, WITH A HIGH PRESSURE SODIUM LAMP (INCLUDE RISER CABLE)						
Quantity:						
Unit: EACH						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Constr. Equipment - Large	1.500		\$7.85	\$	-
	Dump Truck (Small)	1.500		\$3.63	\$	-
	Trailers (Pole & Cable)	1.500		\$0.18	\$	-
	Aerial/Boom Trucks	1.500		\$6.63	\$	-
	Pickup	0.750		\$2.35	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$	-
	=Lab Rates!\$B\$13	2.250		\$29.55	\$	-
	Electrical Worker	3.750		\$22.70	\$	-
	City Laborer Regular	3.000		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	Item	Amount		Price	Total	
	30' Lantern pole steel/cast iron base/ 3 bracelets			\$4,806.00	\$	-
	150w lantern arm black			\$400.00	\$	-
	Milwaukee lantern black			\$409.18	\$	-
	150 watt H.P.S. lamp			\$10.17	\$	-
	3#12 UF cable - secondary			\$23.84	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-46						
Item: 30' BLACK STEEL POLE WITH DECORATIVE BASE ON EXISTING CONCRETE BASE, 250W/240 VOLT MILWAUKEE LANTERN BRACKET & MILWAUKEE LANTERN FIXTURE, WITH A HIGH PRESSURE SODIUM LAMP (INCLUDE RISER CABLE)						
Quantity:						
Unit: EACH						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Constr. Equipment - Large	1.500		\$7.85	\$	-
	Dump Truck (Small)	1.500		\$3.63	\$	-
	Trailers (Pole & Cable)	1.500		\$0.18	\$	-
	Aerial/Boom Trucks	1.500		\$6.63	\$	-
	Pickup	0.750		\$2.35	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	1.500		\$31.05	\$	-
	Electrical Mechanic	2.250		\$29.55	\$	-
	Electrical Worker	3.750		\$22.70	\$	-
	City Laborer Regular	3.000		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	Item	Amount		Price	Total	
	30' Lantern pole steel/cast iron base/ 3 bracelets			\$4,806.00	\$	-
	250w lantern arm black			\$392.14	\$	-
	Milwaukee lantern black			\$409.18	\$	-
	250 watt H.P.S. lamp			\$10.37	\$	-
	3#12 UF cable - secondary			\$23.84	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-47						
Item: REMOVE CONCRETE,WOOD, AND ALUMINUM POLE						
Quantity: 12						
Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Constr. Equipment - Large	1.000	12.000	\$7.85	\$	94.20
	Dump Truck (Small)	1.000	12.000	\$3.63	\$	43.56
	Misc. Large Truck	1.500	18.000	\$3.62	\$	65.16
	Trailers (Pole & Cable)	1.000	12.000	\$0.18	\$	2.16
				Total Machinery Charges	\$	205.08
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	1.000	12.000	\$31.05	\$	372.60
	Electrical Mechanic	1.500	18.000	\$29.55	\$	531.90
	Electrical Worker	2.500	30.000	\$22.70	\$	681.00
	Special Laborer Electrical Services	1.000	12.000	\$20.82	\$	249.84
	Special Laborer Electrical Services	1.000	12.000	\$20.82	\$	249.84
	Special Laborer Electrical Services	1.000	12.000	\$20.82	\$	249.84
				Sub-Total Labor Cost	\$	2,335.02
				Fringe Benefit Rate @ 91.84%	\$	2,052.48
				Total Labor Cost	\$	4,387.50
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	4,592.58
				Total Cost Per Unit	\$	382.72
				Total Excluded Cost	\$	205.08

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-48						
Item: REMOVE PEDESTRIAN SCALE POLE						
Quantity:						
Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Constr. Equipment - Large	1.000		\$7.85	\$	-
	Dump Truck (Small)	1.000		\$3.63	\$	-
	Dump Truck (Med. & Lrg.)	1.000		\$3.62	\$	-
	Trailers (Pole & Cable)	1.000		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	1.000		\$31.05	\$	-
	Electrical Mechanic	1.000		\$29.55	\$	-
	Electrical Worker	2.000		\$22.70	\$	-
	Special Laborer Electrical Services	1.000		\$20.82	\$	-
	Special Laborer Electrical Services	1.000		\$20.82	\$	-
	Special Laborer Electrical Services	1.000		\$20.82	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-49						
Item: INSTALL 22" DIA. X 36" HIGH PRECAST CONCRETE BASE WITH 11" DIA. BOLT CIRCLE						
Quantity:						
Unit: EACH						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Constr. Equipment - Large	2.000		\$7.85	\$	-
	Dump Truck (Small)	2.000		\$3.63	\$	-
	Trailers (Pole & Cable)	2.000		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	2.000		\$31.05	\$	-
	Electrical Worker	2.000		\$22.70	\$	-
	City Laborer Regular	2.000		\$18.97	\$	-
	City Laborer Regular	2.000		\$18.97	\$	-
	Cement Finisher	1.000		\$27.46	\$	-
	City Laborer Regular	1.000		\$18.97	\$	-
	City Laborer Regular	1.000		\$18.97	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	Item	Amount	Price	Total		
	Precast concrete base for ped pole (11"bolt cir. 22"Dx36"H)		\$289.54	\$	-	
			Sub-Total Material Cost	\$	-	
			Indirect Cost Factor @ 12.21%	\$	-	
			Total Material Cost	\$	-	
			TOTAL COST	\$	-	
			Total Cost Per Unit	#DIV/0!		
			Total Excluded Cost	\$	-	

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-50						
Item: INSTALL 24" DIA. X 6'-6" HIGH CONCRETE BASE WITH 13" DIA. BOLT CIRCLE						
Quantity:						
Unit: EACH						
Machinery	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Constr. Equipment - Large	2.000		\$7.85	\$	-
	Dump Truck (Small)	2.000		\$3.63	\$	-
	Trailers (Pole & Cable)	2.000		\$0.18	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	2.000		\$31.05	\$	-
	Electrical Worker	2.000		\$22.70	\$	-
	City Laborer Regular	6.000		\$18.97	\$	-
	Cement Finisher	1.000		\$27.46	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	Item	Amount	Price	Total		
	concrete	24" dia. X 72" high conc.base 0.814 cu.yd:	\$80.00	\$	-	
	6 ft. Rebar cage		\$399.19	\$	-	
	24" dia.x6 ft. high cardboard tube		\$100.00	\$	-	
	1" dia. X 3 ft. threaded rod		\$17.03	\$	-	
			Sub-Total Material Cost	\$	-	
			Indirect Cost Factor @ 12.21%	\$	-	
			Total Material Cost	\$	-	
			TOTAL COST	\$	-	
			Total Cost Per Unit	#DIV/0!		
			Total Excluded Cost	\$	-	

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-51 Item: INSTALL 30" DIA. X 8'-0" HIGH CONCRETE BASE WITH 11-1/2" DIA. FLUTED STEEL POLE INSERT						
Quantity: EACH Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Constr. Equipment - Large	2.000		\$7.85	\$ -	
	Dump Truck (Small)	2.000		\$3.63	\$ -	
	Trailers (Pole & Cable)	2.000		\$0.18	\$ -	
Total Machinery Charges					\$ -	
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic (crew chief)	2.000		\$31.05	\$ -	
	Electrical Worker	2.000		\$22.70	\$ -	
	City Laborer Regular	6.000		\$18.97	\$ -	
	Cement Finisher	1.000		\$27.46	\$ -	
Sub-Total Labor Cost					\$ -	
Fringe Benefit Rate @ 91.84%					\$ -	
Total Labor Cost					\$ -	
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	concrete	30" dia. X 96" high conc.base 1.454 cu.yds	\$80.00	\$ -		
	11 1/2" dia. steel pole insert		\$2,000.00	\$ -		
	30" dia.x 8 ft. high cardboard tube		\$170.00	\$ -		
Sub-Total Material Cost					\$ -	
Indirect Cost Factor @ 12.21%					\$ -	
Total Material Cost					\$ -	
TOTAL COST					\$ -	
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$ -	

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-52 Item: INSTALL 6'-0" UPSWEEP BRACKET (WOOD POLE MOUNTING)						
Quantity: 8 Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Aerial/Boom Trucks	0.750	6.000	\$6.63	\$ 39.78	
Total Machinery Charges					\$ 39.78	
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic	0.750	6.000	\$29.55	\$ 177.30	
	Electrical Worker	0.750	6.000	\$22.70	\$ 136.20	
Sub-Total Labor Cost					\$ 313.50	
Fringe Benefit Rate @ 91.84%					\$ 275.57	
Total Labor Cost					\$ 589.07	
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	6' upsweep bracket for wood pole mtg.	8	\$80.11	\$ 640.92		
Sub-Total Material Cost					\$ 640.92	
Indirect Cost Factor @ 12.21%					\$ 64.99	
Total Material Cost					\$ 705.91	
TOTAL COST					\$ 1,334.76	
Total Cost Per Unit					\$ 166.85	
Total Excluded Cost					\$ 745.69	

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-53 Item: INSTALL 6'-0" 2" AL. MITCHELL UPSWEEP BRACKET						
Quantity: EACH Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Aerial/Boom Trucks	0.500		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic	0.500		\$29.55	\$	-
	Electrical Worker	0.500		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	Mitchell 6' upsweep bracket		\$42.10	\$		-
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-54 Item: INSTALL SHARP CUT-OFF BRACKET						
Quantity: EACH Unit: EACH						
Machinery	<u>Equipment</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Aerial/Boom Trucks	0.500		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	<u>Position</u>	<u>Hours Per Each Unit</u>	<u>Total Hours</u>	<u>Hourly Rate</u>	<u>Total</u>	
	Electrical Mechanic	0.500		\$29.55	\$	-
	Electrical Worker	0.500		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	<u>Item</u>	<u>Amount</u>	<u>Price</u>	<u>Total</u>		
	Stub bracket for cut-off fixture		\$19.90	\$		-
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-55 Item: INSTALL A31 MOUNTING CLAMP SINGLE BRACKET						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.250		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.250		\$29.55	\$	-
	Electrical Worker	0.250		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount		Price	Total	
	A31 mounting clamp single bracket			\$24.06	\$	-
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-56 Item: INSTALL A31 MOUNTING CLAMP DOUBLE BRACKET						
Quantity: 4 Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.250	1.000	\$6.63	\$	6.63
					Total Machinery Charges	\$ 6.63
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.250	1.000	\$29.55	\$	29.55
	Electrical Worker	0.250	1.000	\$22.70	\$	22.70
					Sub-Total Labor Cost	\$ 52.25
					Fringe Benefit Rate @ 91.84%	\$ 45.93
					Total Labor Cost	\$ 98.18
Material Costs:	Item	Amount		Price	Total	
	A31 mounting clamp double bracket	4		\$43.22	\$	172.89
					Sub-Total Material Cost	\$ 172.89
					Indirect Cost Factor @ 12.21%	\$ 17.53
					Total Material Cost	\$ 190.42
					TOTAL COST	\$ 295.23
					Total Cost Per Unit	\$ 73.81
					Total Excluded Cost	\$ 197.05

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-57**
 Item: **INSTALL A21-A26 MOUNTING CLAMP SINGLE BRACKET**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.250		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.250		\$29.55	\$ -
		Electrical Worker	0.250		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		A21/A26 mounting clamp single bracket		\$30.81	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-58**
 Item: **INSTALL A21-A26 MOUNTING CLAMP DOUBLE BRACKET**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.250		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.250		\$29.55	\$ -
		Electrical Worker	0.250		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		A21/A26 mounting clamp double bracket		\$38.64	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-59 Item: INSTALL A21-A26 BLACK MILWAUKEE LANTERN CLAMP						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.250		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.250		\$29.55	\$	-
	Electrical Worker	0.250		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
	Lantern arm clamp A21/A26 black		\$83.20	\$		-
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-60 Item: INSTALL A31 BLACK MILWAUKEE LANTERN CLAMP						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.250		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.250		\$29.55	\$	-
	Electrical Worker	0.250		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
	Lantern arm clamp A31 black		\$96.16	\$		-
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-61**
 Item: **INSTALL 150W/240V BLACK MILWAUKEE LANTERN ARM**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.500		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.500		\$29.55	\$ -
		Electrical Worker	0.500		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		150w lantern arm black		\$400.00	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-62**
 Item: **INSTALL A21-A26 GREEN MILWAUKEE LANTERN CLAMP**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.250		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.250		\$29.55	\$ -
		Electrical Worker	0.250		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		Lantern arm clamp A21/A26 green		\$93.17	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-63**
 Item: **INSTALL A31 GREEN MILWAUKEE LANTERN CLAMP**
 Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.250		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.250		\$29.55	\$ -
		Electrical Worker	0.250		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		Lantern arm clamp A31 green		\$91.05	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-64**
 Item: **INSTALL 150W240V GREEN MILWAUKEE LANTERN ARM**
 Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.500		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.500		\$29.55	\$ -
		Electrical Worker	0.500		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		150w lantern arm green		\$511.77	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-65 Item: INSTALL 250W/240V GREEN MILWAUKEE LANTERN ARM						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.500		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.500		\$29.55	\$	-
	Electrical Worker	0.500		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
	250w lantern arm green		\$353.89	\$		-
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-66 Item: INSTALL SERIES WITHOUT BALLAST GREEN MILWAUKEE LANTERN ARM						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.500		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.500		\$29.55	\$	-
	Electrical Worker	0.500		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
	lantern arm no-ballast green		\$194.25	\$		-
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-67**
 Item: **INSTALL 250W/240V BLACK MILWAUKEE LANTERN ARM**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.500		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.500		\$29.55	\$ -
		Electrical Worker	0.500		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		250w lantern arm black		\$392.14	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-68**
 Item: **INSTALL SERIES WITHOUT BALLAST BLACK MILWAUKEE LANTERN ARM**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.500		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.500		\$29.55	\$ -
		Electrical Worker	0.500		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		lantern arm no-ballast black		\$369.79	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-69 Item: INSTALL CROSS ARM						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.500		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.500		\$29.55	\$	-
	Electrical Worker	0.500		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
	Cross arm fir, 4 pin (Old Item# 1204243)		\$26.34	\$		-
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-70 Item: REMOVE BRACKET AND FIXTURE COMPLETE						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.500		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.500		\$29.55	\$	-
	Electrical Worker	0.500		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
						\$ -
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-71 Item: INSTALL 100W/240V SLIPFIT FIXTURE, TYPE 2 OPTICS, & 100 WATT HIGH PRESSURE SODIUM LAMP						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.750		\$6.63	\$	-
Total Machinery Charges					\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.750		\$29.55	\$	-
	Electrical Worker	0.750		\$22.70	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:	Item	Amount	Price	Total		
	slip fit head 100w/240v.		\$59.74	\$	-	
	type II optical assembly		\$38.61	\$	-	
	100 watt H.P.S lamp		\$11.64	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-72 Item: INSTALL 100W/240V SLIPFIT FIXTURE, TYPE 5 OPTICS & 100 WATT HIGH PRESSURE SODIUM LAMP						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.750		\$6.63	\$	-
Total Machinery Charges					\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.750		\$29.55	\$	-
	Electrical Worker	0.750		\$22.70	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:	Item	Amount	Price	Total		
	slip fit head 100w/240v.		\$59.74	\$	-	
	type V optical assembly		\$31.14	\$	-	
	100 watt H.P.S lamp		\$11.64	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-73**
 Item: **INSTALL SERIES WITHOUT BALLAST SLIPFIT FIXTURE, 55 VOLT IGNITOR, TYPE 2 OPTICS & 100 WATT HIGH PRESSURE SODIUM LAMP**
 Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.750		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.750		\$29.55	\$ -
		Electrical Worker	0.750		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		slip fit head no-ballast		\$28.75	\$ -	
		type II optical assembly		\$38.61	\$ -	
		100 watt H.P.S lamp		\$11.64	\$ -	
		55 volt starting aid (ignitor)		\$33.57	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-74**
 Item: **INSTALL SERIES WITHOUT BALLAST SLIPFIT FIXTURE, 55 VOLT IGNITOR, TYPE 5 OPTICS & 100 WATT HIGH PRESSURE SODIUM LAMP**
 Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.750		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.750		\$29.55	\$ -
		Electrical Worker	0.750		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		slip fit head no-ballast		\$28.75	\$ -	
		type V optical assembly		\$31.14	\$ -	
		100 watt H.P.S lamp		\$11.64	\$ -	
		55 volt starting aid (ignitor)		\$33.57	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-75**
 Item: **INSTALL 150W/240V COBRA FIXTURE & 150 WATT HIGH PRESSURE SODIUM LAMP**

Quantity: EACH
 Unit: EACH

Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Aerial/Boom Trucks	0.750		\$6.63	\$ -
Total Machinery Charges					\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	0.750		\$29.55	\$ -
	Electrical Worker	0.750		\$22.70	\$ -
Sub-Total Labor Cost					\$ -
Fringe Benefit Rate @ 91.84%					\$ -
Total Labor Cost					\$ -
Material Costs:	Item	Amount	Price	Total	
	150 watt/240 volt cobra fixture		\$89.29	\$ -	
	150 watt H.P.S. lamp		\$10.17	\$ -	
Sub-Total Material Cost				\$ -	
Indirect Cost Factor @ 12.21%				\$ -	
Total Material Cost				\$ -	
TOTAL COST					\$ -
Total Cost Per Unit					#DIV/0!
Total Excluded Cost					\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-76**
 Item: **INSTALL 250W/240V COBRA FIXTURE & 250 WATT HIGH PRESSURE SODIUM LAMP**

Quantity: 16
 Unit: EACH

Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Aerial/Boom Trucks	0.750	12.000	\$6.63	\$ 79.56
Total Machinery Charges					\$ 79.56
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	0.750	12.000	\$29.55	\$ 354.60
	Electrical Worker	0.750	12.000	\$22.70	\$ 272.40
Sub-Total Labor Cost					\$ 627.00
Fringe Benefit Rate @ 91.84%					\$ 551.13
Total Labor Cost					\$ 1,178.13
Material Costs:	Item	Amount	Price	Total	
	250 watt/240 volt cobra fixture	16	\$100.70	\$ 1,611.20	
	250 watt H.P.S. lamp	16	\$10.37	\$ 165.89	
Sub-Total Material Cost				\$ 1,777.09	
Indirect Cost Factor @ 12.21%				\$ 180.20	
Total Material Cost				\$ 1,957.29	
TOTAL COST					\$ 3,214.98
Total Cost Per Unit					\$ 200.94
Total Excluded Cost					\$ 2,036.85

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-77**
 Item: **INSTALL SERIES WITHOUT BALLAST COBRA FIXTURE, 55 VOLT IGNITOR & 150 WATT HIGH PRESSURE SODIUM LAMP**

Quantity:
 Unit: EACH

Machinery Charges:						
	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.750		\$6.63	\$	-
Total Machinery Charges					\$	-
Labor Costs:						
	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.750		\$29.55	\$	-
	Electrical Worker	0.750		\$22.70	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:						
	Item	Amount	Price	Total		
	150/250 watt cobra no-ballast		\$54.96	\$	-	
	150 watt H.P.S. lamp		\$10.17	\$	-	
	55 volt starting aid (ignitor)		\$33.57	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-78**
 Item: **INSTALL SERIES WITHOUT BALLAST COBRA FIXTURE, 100 VOLT IGNITOR & 250 WATT HIGH PRESSURE SODIUM LAMP**

Quantity:
 Unit: EACH

Machinery Charges:						
	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.750		\$6.63	\$	-
Total Machinery Charges					\$	-
Labor Costs:						
	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.750		\$29.55	\$	-
	Electrical Worker	0.750		\$22.70	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:						
	Item	Amount	Price	Total		
	150/250 watt cobra no-ballast		\$54.96	\$	-	
	250 watt H.P.S. lamp		\$10.37	\$	-	
	100 volt starting aid (ignitor)		\$32.60	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-79 Item: INSTALL 70W/240V WALL PACK FIXTURE & 70 WATT HIGH PRESSURE SODIUM LAMP						
Quantity: Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	1.500		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	1.500		\$29.55	\$	-
	Electrical Worker	1.500		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
	70w/240v. wall pack fixture		\$186.07	\$	-	
	70 watt H.P.S. lamp		\$12.13	\$	-	
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-80 Item: INSTALL 70W/240V BLACK MILWAUKEE HARP, & 70 WATT HIGH PRESSURE SODIUM LAMP						
Quantity: Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	1.500		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	1.500		\$29.55	\$	-
	Electrical Worker	1.500		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
	70w Milwaukee harp fixture black		\$733.62	\$	-	
	70 watt H.P.S. lamp		\$12.13	\$	-	
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-81**
 Item: **INSTALL SERIES WITHOUT BALLAST BLACK MILWAUKEE HARP, 55 VOLT IGNITOR, & 70 WATT HIGH PRESSURE SODIUM LAMP**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	1.500		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	1.500		\$29.55	\$ -
		Electrical Worker	1.500		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		70w Milwaukee harp fixture black		\$733.62	\$ -	
		55 volt starting aid (ignitor)		\$33.57	\$ -	
		70 watt H.P.S. lamp		\$12.13	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-82**
 Item: **INSTALL GREEN MILWAUKEE LANTERN FIXTURE, & 150 WATT HIGH PRESSURE SODIUM LAMP**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.750		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.750		\$29.55	\$ -
		Electrical Worker	0.750		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		Milwaukee lantern green		\$322.26	\$ -	
		150 watt H.P.S. lamp		\$10.17	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-83**
 Item: **INSTALL GREEN MILWAUKEE LANTERN FIXTURE, & 250 WATT HIGH PRESSURE SODIUM LAMP**
 Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	0.750		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	0.750		\$29.55	\$ -
		Electrical Worker	0.750		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		Milwaukee lantern green		\$322.26	\$ -	
		250 watt H.P.S. lamp		\$10.37	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-84**
 Item: **INSTALL 70W/240V GREEN MILWAUKEE HARP, & 70 WATT HIGH PRESSURE SODIUM LAMP**
 Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Aerial/Boom Trucks	1.500		\$6.63	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	1.500		\$29.55	\$ -
		Electrical Worker	1.500		\$22.70	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		70w Milwaukee harp fixture green		\$494.12	\$ -	
		70 watt H.P.S. lamp		\$12.13	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-85**
 Item: **INSTALL SERIES WITHOUT BALLAST GREEN MILWAUKEE HARP, 55 VOLT IGNITOR, & 70 WATT HIGH PRESSURE SODIUM LAMP**

Quantity:
 Unit: EACH

Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Aerial/Boom Trucks	1.500		\$6.63	\$ -
Total Machinery Charges					\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	1.500		\$29.55	\$ -
	Electrical Worker	1.500		\$22.70	\$ -
Sub-Total Labor Cost					\$ -
Fringe Benefit Rate @ 91.84%					\$ -
Total Labor Cost					\$ -
Material Costs:	Item	Amount	Price	Total	
	70w Milwaukee harp fixture green		\$494.12	\$ -	
	55 volt starting aid (ignitor)		\$33.57	\$ -	
	70 watt H.P.S. lamp		\$12.13	\$ -	
Sub-Total Material Cost					\$ -
Indirect Cost Factor @ 12.21%					\$ -
Total Material Cost					\$ -
TOTAL COST					\$ -
Total Cost Per Unit					#DIV/0!
Total Excluded Cost					\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-86**
 Item: **INSTALL BLACK MILWAUKEE LANTERN FIXTURE, & 150 WATT HIGH PRESSURE SODIUM LAMP**

Quantity:
 Unit: EACH

Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Aerial/Boom Trucks	0.750		\$6.63	\$ -
Total Machinery Charges					\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	0.750		\$29.55	\$ -
	Electrical Worker	0.750		\$22.70	\$ -
Sub-Total Labor Cost					\$ -
Fringe Benefit Rate @ 91.84%					\$ -
Total Labor Cost					\$ -
Material Costs:	Item	Amount	Price	Total	
	Milwaukee lantern black		\$409.18	\$ -	
	150 watt H.P.S. lamp		\$10.17	\$ -	
Sub-Total Material Cost					\$ -
Indirect Cost Factor @ 12.21%					\$ -
Total Material Cost					\$ -
TOTAL COST					\$ -
Total Cost Per Unit					#DIV/0!
Total Excluded Cost					\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-87 Item: INSTALL BLACK MILWAUKEE LANTERN FIXTURE, & 250 WATT HIGH PRESSURE SODIUM LAMP						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.750		\$6.63	\$	-
Total Machinery Charges					\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.750		\$29.55	\$	-
	Electrical Worker	0.750		\$22.70	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:	Item	Amount	Price	Total		
	Milwaukee lantern black 250 watt H.P.S. lamp		\$409.18 \$10.37	\$	\$	- -
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-88 Item: INSTALL 250W/240V SHARP CUT-OFF FIXTURE & 250 WATT HIGH PRESSURE SODIUM LAMP						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	1.500		\$6.63	\$	-
Total Machinery Charges					\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	1.500		\$29.55	\$	-
	Electrical Worker	1.500		\$22.70	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:	Item	Amount	Price	Total		
	250 watt/240 volt cut-off fixture 250 watt H.P.S. lamp		\$364.11 \$10.37	\$	\$	- -
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-89**
 Item: **INSTALL 70 WATT SINGLE COIL BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:						
	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	2.75		\$2.85	\$	-
Total Machinery Charges					\$	-
Labor Costs:						
	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	2.75		\$29.55	\$	-
	City Laborer Regular	2.75		\$18.97	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:						
	Item	Amount	Price	Total		
	70 watt HPS single coil series ballast		\$162.15	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-90**
 Item: **INSTALL 70 WATT DOUBLE COIL BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:						
	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	2.75		\$2.85	\$	-
Total Machinery Charges					\$	-
Labor Costs:						
	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	2.75		\$29.55	\$	-
	City Laborer Regular	2.75		\$18.97	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:						
	Item	Amount	Price	Total		
	70 watt HPS double coil series ballast		\$315.06	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-91**
 Item: **INSTALL 70 WATT TRIPLE COIL BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:						
	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	2.75		\$2.85	\$	-
Total Machinery Charges					\$	-
Labor Costs:						
	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	2.75		\$29.55	\$	-
	City Laborer Regular	2.75		\$18.97	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:						
	Item	Amount	Price	Total		
	70 watt HPS triple coil series ballast		\$348.81	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-92**
 Item: **INSTALL 100 WATT SINGLE COIL BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:						
	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	2.75		\$2.85	\$	-
Total Machinery Charges					\$	-
Labor Costs:						
	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	2.75		\$29.55	\$	-
	City Laborer Regular	2.75		\$18.97	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:						
	Item	Amount	Price	Total		
	100 watt HPS single coil series ballast		\$203.88	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-93**
 Item: **INSTALL 100 WATT DOUBLE COIL BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Van [Heavy]	2.75		\$2.85	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	2.75		\$29.55	\$ -
		City Laborer Regular	2.75		\$18.97	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		100 watt HPS double coil series ballast		\$252.63	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-94**
 Item: **INSTALL 100 WATT TRIPLE COIL BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Van [Heavy]	2.75		\$2.85	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	2.75		\$29.55	\$ -
		City Laborer Regular	2.75		\$18.97	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		100 watt HPS triple coil series ballast		\$467.78	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-95**
 Item: **INSTALL 150 WATT SINGLE COIL BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Van [Heavy]	2.75		\$2.85	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	2.75		\$29.55	\$ -
		City Laborer Regular	2.75		\$18.97	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		150 watt HPS single coil series ballast		\$174.88	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-96**
 Item: **INSTALL 150 WATT DOUBLE COIL BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Van [Heavy]	2.75		\$2.85	\$ -
Sub-Total Machinery Charges						\$18.97
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	2.75		\$29.55	\$ -
		City Laborer Regular	2.75		\$ -	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
		150 watt HPS double coil series ballast		\$356.51	\$ -	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-97**
 Item: **INSTALL 250 WATT SINGLE COIL BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:						
	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	2.75		\$2.85	\$	-
Total Machinery Charges					\$	-
Labor Costs:						
	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	2.75		\$29.55	\$	-
	City Laborer Regular	2.75		\$18.97	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:						
	Item	Amount	Price	Total		
	250 watt HPS single coil series ballast		\$236.16	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-98**
 Item: **INSTALL 250 WATT DOUBLE COIL BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:						
	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	2.75		\$2.85	\$	-
Total Machinery Charges					\$	-
Labor Costs:						
	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	2.75		\$29.55	\$	-
	City Laborer Regular	2.75		\$18.97	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:						
	Item	Amount	Price	Total		
	250 watt HPS double coil series ballast		\$414.36	\$	-	
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	-
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	-

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-99 Item: SECONDARY SPLICE						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	1.25		\$2.85	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	1.25		\$29.55	\$	-
	City Laborer Regular	1.25		\$18.97	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-100 Item: SPLICE 1#8 PRIMARY						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	1.5		\$2.85	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	1.5		\$29.55	\$	-
	City Laborer Regular	1.5		\$18.97	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-101 Item: SPLICE 2#8 PRIMARY						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	2.5		\$2.85	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	2.5		\$29.55	\$	-
	City Laborer Regular	2.5		\$18.97	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-102 Item: SPLICE "Y"						
Quantity: EACH Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	2.5		\$2.85	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	2.5		\$29.55	\$	-
	City Laborer Regular	2.5		\$18.97	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-103 Item: HAND HOLE OR PEDESTAL SPLICE						
Quantity: 5 Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	0.75	3.750	\$2.85	\$	10.69
					Total Machinery Charges	\$ 10.69
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.75	3.750	\$29.55	\$	110.81
	City Laborer Regular	0.75	3.750	\$18.97	\$	71.14
					Sub-Total Labor Cost	\$ 181.95
					Fringe Benefit Rate @ 91.84%	\$ 159.93
					Total Labor Cost	\$ 341.88
Material Costs:	Item	Amount	Price	Total		
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ 352.57
					Total Cost Per Unit	\$ 70.51
					Total Excluded Cost	\$ 10.69

Project ID: 1060-36-90 Highway: Zoo Interchange County: Milwaukee						
Item Number: 90005-104 Item: INSTALL LIGHTNING ARRESTOR						
Quantity: Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Aerial/Boom Trucks	0.250		\$6.63	\$	-
					Total Machinery Charges	\$ -
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	0.250		\$29.55	\$	-
	Electrical Worker	0.250		\$22.70	\$	-
					Sub-Total Labor Cost	\$ -
					Fringe Benefit Rate @ 91.84%	\$ -
					Total Labor Cost	\$ -
Material Costs:	Item	Amount	Price	Total		
	Lightning arrestor			\$44.86	\$	-
					Sub-Total Material Cost	\$ -
					Indirect Cost Factor @ 12.21%	\$ -
					Total Material Cost	\$ -
					TOTAL COST	\$ -
					Total Cost Per Unit	#DIV/0!
					Total Excluded Cost	\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-105**
 Item: **REMOVE UNDERGROUND BALLAST**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Van [Heavy]	3		\$2.85	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	3		\$29.55	\$ -
		Special Laborer Electrical Services	3		\$20.82	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-107**
 Item: **REMOVE GROUND & TEST STATION**

Quantity:
 Unit: EACH

Machinery Charges:		Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Van [Heavy]	2		\$2.85	\$ -
Total Machinery Charges						\$ -
Labor Costs:		Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
		Electrical Mechanic	2		\$29.55	\$ -
		City Laborer Regular	2		\$18.97	\$ -
Sub-Total Labor Cost						\$ -
Fringe Benefit Rate @ 91.84%						\$ -
Total Labor Cost						\$ -
Material Costs:		Item	Amount	Price	Total	
Sub-Total Material Cost						\$ -
Indirect Cost Factor @ 12.21%						\$ -
Total Material Cost						\$ -
TOTAL COST						\$ -
Total Cost Per Unit						#DIV/0!
Total Excluded Cost						\$ -

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-108**
 Item: **INSTALLATION OF PRIMARY / SECONDARY RISER**

Quantity: 1
 Unit: EACH

Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Aerial/Boom Trucks	1.000	1.000	\$6.63	\$ 6.63
Total Machinery Charges					\$ 6.63
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	1.000	1.000	\$29.55	\$ 29.55
	Electrical Worker	1.000	1.000	\$22.70	\$ 22.70
Sub-Total Labor Cost					\$ 52.25
Fringe Benefit Rate @ 91.84%					\$ 45.93
Total Labor Cost					\$ 98.18
Material Costs:	Item	Amount	Price	Total	
	Resin & hardener, epoxy electrical grade	20	\$2.93	\$ 58.51	
	Tape, electrical, 3/4 in. X 15 ft. semi-conducting		\$9.09		
Sub-Total Material Cost					\$ 58.51
Indirect Cost Factor @ 12.21%					\$ 5.93
Total Material Cost					\$ 64.44
TOTAL COST					\$ 169.25
Total Cost Per Unit					\$ 169.25
Total Excluded Cost					\$ 71.07

Project ID: 1060-36-90
 Highway: Zoo Interchange
 County: Milwaukee

Item Number: **90005-109**
 Item: **REMOVAL OF PRIMARY / SECONDARY RISER**

Quantity: 1
 Unit: EACH

Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Aerial/Boom Trucks	1.000	1.000	\$6.63	\$ 6.63
Total Machinery Charges					\$ 6.63
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total
	Electrical Mechanic	1.000	1.000	\$29.55	\$ 29.55
	Electrical Worker	1.000	1.000	\$22.70	\$ 22.70
Sub-Total Labor Cost					\$ 52.25
Fringe Benefit Rate @ 91.84%					\$ 45.93
Total Labor Cost					\$ 98.18
Material Costs:	Item	Amount	Price	Total	
Sub-Total Material Cost					\$ -
Indirect Cost Factor @ 12.21%					\$ -
Total Material Cost					\$ -
TOTAL COST					\$ 104.81
Total Cost Per Unit					\$ 104.81
Total Excluded Cost					\$ 6.63

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-110						
Item: BREAK OUT CONCRETE WALK						
Quantity: 25						
Unit: SQ.FT.						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Compressors	0.222	5.550	\$1.04	\$	5.77
	Pickup	0.222	5.550	\$2.35	\$	13.04
	Van [Heavy]	0.222	5.550	\$2.85	\$	15.82
				Total Machinery Charges	\$	34.63
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Worker	0.222	5.550	\$22.70	\$	125.99
				Sub-Total Labor Cost	\$	125.99
				Fringe Benefit Rate @ 91.84%	\$	110.75
				Total Labor Cost	\$	236.74
Material Costs:	Item	Amount	Price	Total		
				\$	-	
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	271.37
				Total Cost Per Unit	\$	10.85
				Total Excluded Cost	\$	34.63

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-111						
Item: SAW CUT CONCRETE						
Quantity: 20						
Unit: Lin.Ft.						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Compressors	0.222	4.440	\$1.04	\$	4.62
	Pickup	0.222	4.440	\$2.35	\$	10.43
	Van [Heavy]	0.222	4.440	\$2.85	\$	12.65
				Total Machinery Charges	\$	27.70
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Special Laborer Electrical Services	0.222	4.440	\$20.82	\$	92.44
				Sub-Total Labor Cost	\$	92.44
				Fringe Benefit Rate @ 91.84%	\$	81.25
				Total Labor Cost	\$	173.69
Material Costs:	Item	Amount	Price	Total		
				\$	-	
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	201.39
				Total Cost Per Unit	\$	10.07
				Total Excluded Cost	\$	27.70

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-112						
Item: CONCRETE RESTORATION (5" DEPTH)						
Quantity: 25		Unit: SQ.FT.				
Converted: 10.417		Unit: CU..FT.				
Converted: 0.3858		Unit: CU..YD.				
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Pickup	0.1666	4.1650	\$2.35	\$	9.79
	Compressors	0.1666	4.1650	\$1.04	\$	4.33
Total Machinery Charges					\$	14.12
Labor Costs:	Position	Each Square Foot Unit	Total Hours	Hourly Rate	Total	
	Cement Finisher	0.1666	4.1650	\$27.46	\$	114.37
	Special Laborer Electrical Services	0.1666	4.1650	\$20.82	\$	86.72
	Special Laborer Electrical Services	0.1666	4.1650	\$20.82	\$	86.72
Sub-Total Labor Cost					\$	287.81
Fringe Benefit Rate @ 91.84%					\$	252.98
Total Labor Cost					\$	540.79
Material Costs:	Item	Amount (cu.yd.)	Price	Total		
	concrete	(cubic yard)	0.3858	\$80.00	\$	30.86
Sub-Total Material Cost					\$	30.86
Indirect Cost Factor @ 12.21%					\$	3.13
Total Material Cost					\$	33.99
TOTAL COST					\$	588.90
Total Cost Per Unit					\$	23.56
Total Excluded Cost					\$	48.11

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-113						
Item: 100 AMP 120/240 VOLT PAD MOUNT SERVICE CABINET (GREEN)						
Quantity:		Unit: Each				
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Dump Truck (Med. & Lrg.)	5.000		\$5.77	\$	-
	Pickup	0.2500	6.2500	\$2.35	\$	14.69
Total Machinery Charges					\$	14.69
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	5.000		\$29.55	\$	-
	Electrical Worker	5.000		\$22.70	\$	-
	Cement Finisher	0.500		\$27.46	\$	-
	Machinist II	3.000		\$27.95	\$	-
Sub-Total Labor Cost					\$	-
Fringe Benefit Rate @ 91.84%					\$	-
Total Labor Cost					\$	-
Material Costs:	Item	Amount	Price	Total		
	Outlet Cab/Lgt Comm.Distr. MeterPed. 100 amp,120/240 volt,single phase,3			\$2,369.00	\$	-
	5/8" x 8' ground rod (Old Item# 1278870)			\$10.00	\$	-
	concrete (0.07 cubic yard)			\$80.00	\$	-
	Metal pedestal base (Fabricated)			\$100.00	\$	-
Sub-Total Material Cost					\$	-
Indirect Cost Factor @ 12.21%					\$	-
Total Material Cost					\$	-
TOTAL COST					\$	14.69
Total Cost Per Unit					#DIV/0!	
Total Excluded Cost					\$	14.69

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-114						
Item: 50 KVA 240/480 VOLT POWER DISTRIBUTION PAD MOUNT ENCLOSURE (BROWN)						
Quantity: Each						
Unit: Each						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Dump Truck (Med. & Lrg.)	3.000		\$5.77	\$	-
	Dump Truck (Small)	3.000		\$3.63	\$	-
	Trailers (Pole & Cable)	3.000		\$0.18	\$	-
	Pickup	70.000		\$2.35	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	3.000		\$31.05	\$	-
	Electrical Mechanic	66.000		\$29.55	\$	-
	Electrical Worker	69.000		\$22.70	\$	-
	City Laborer Regular	17.000		\$18.97	\$	-
	Cement Finisher	4.000		\$27.46	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	Item	Amount		Price	Total	
	transclosure, housing only, 54 in. X 54 in. X 71 in, steel, 1 gang			\$11,919.94	\$	-
	50 kva 2200-7620 240/480 transformer			\$765.63	\$	-
	concrete (2 cubic yard)			\$80.00	\$	-
	5/8" x 8' ground rod (Old Item# 1278870)			\$10.00	\$	-
	1/0 bare copper wire			\$2.00	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-115						
Item: 37.5 KVA 240/480 VOLT POWER DISTRIBUTION PAD MOUNT ENCLOSURE (BROWN)						
Quantity: Each						
Unit: Each						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Dump Truck (Med. & Lrg.)	3.000		\$5.77	\$	-
	Dump Truck (Small)	3.000		\$3.63	\$	-
	Trailers (Pole & Cable)	3.000		\$0.18	\$	-
	Pickup	70.0000		\$2.35	\$	-
				Total Machinery Charges	\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	3.000		\$31.05	\$	-
	Electrical Mechanic	66.000		\$29.55	\$	-
	Electrical Worker	69.000		\$22.70	\$	-
	City Laborer Regular	17.000		\$18.97	\$	-
	Cement Finisher	4.0000		\$27.46	\$	-
				Sub-Total Labor Cost	\$	-
				Fringe Benefit Rate @ 91.84%	\$	-
				Total Labor Cost	\$	-
Material Costs:	Item	Amount		Price	Total	
	transclosure, housing only, 54 in. X 54 in. X 71 in, steel, 1 gar			\$11,919.94	\$	-
	37.5 kva 2200-7620 240/480 transformer			\$722.00	\$	-
	concrete (2 cubic yard)			\$80.00	\$	-
	5/8" x 8' ground rod (Old Item# 1278870)			\$17.03	\$	-
	1/0 bare copper wire			\$2.00	\$	-
				Sub-Total Material Cost	\$	-
				Indirect Cost Factor @ 12.21%	\$	-
				Total Material Cost	\$	-
				TOTAL COST	\$	-
				Total Cost Per Unit	#DIV/0!	
				Total Excluded Cost	\$	-

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-116						
Item: 4*X4*X4* CAST IRON BOX (STEEL CHECKERED PLATE COVER)						
Quantity: EACH						
Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Compressors	0.500		\$1.04	\$	-
	Pickup	0.500		\$2.35	\$	-
	Van [Heavy]	0.500		\$2.85	\$	-
	Total Machinery Charges				\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic (crew chief)	0.500		\$31.05	\$	-
	Electrical Worker	0.500		\$22.70	\$	-
	Laborer Electrical Services	0.500		\$19.37	\$	-
	Sub-Total Labor Cost				\$	-
	Fringe Benefit Rate @ 91.84%				\$	-
	Total Labor Cost				\$	-
Material Costs:	Item	Amount	Price	Total		
	4*X4*X4* Cast Iron Box (Steel Checkered Plate Cover)		\$250.00	\$	-	
	Sub-Total Material Cost				\$	-
	Indirect Cost Factor @ 12.21%				\$	-
	Total Material Cost				\$	-
	TOTAL COST				\$	-
	Total Cost Per Unit				#DIV/0!	
	Total Excluded Cost				\$	-

Project ID: 1060-36-90						
Highway: Zoo Interchange						
County: Milwaukee						
Item Number: 90005-106						
Item: INSTALL GROUND & TEST STATION						
Quantity: EACH						
Unit: EACH						
Machinery Charges:	Equipment	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Van [Heavy]	4		\$2.85	\$	-
	Compressors	3.5		\$1.04	\$	-
	Total Machinery Charges				\$	-
Labor Costs:	Position	Hours Per Each Unit	Total Hours	Hourly Rate	Total	
	Electrical Mechanic	4		\$29.55	\$	-
	City Laborer Regular	3.5		\$18.97	\$	-
	Sub-Total Labor Cost				\$	-
	Fringe Benefit Rate @ 91.84%				\$	-
	Total Labor Cost				\$	-
Material Costs:	Item	Amount	Price	Total		
	(Two Required) 5/8" x 8' ground rod (Old Item# 1278870)		\$17.03	\$	-	
	Connector, split bolt, 3 conductor 1/0 to 14, AL, to CU, 600v in metal pedestal housing (4"x4"x36")		\$2.33	\$	-	
	heavy duty, bronze, 5/8", 10Sol-1/0Str (Acorn Nut)		\$31.91	\$	-	
	(2 ft. Required) Wire type TW #6 stranded, black		\$8.45	\$	-	
	(10 ft. Required) 1#8 concentric cable - primary		\$0.54	\$	-	
			\$1.67	\$	-	
	Sub-Total Material Cost				\$	-
	Indirect Cost Factor @ 12.21%				\$	-
	Total Material Cost				\$	-
	TOTAL COST				\$	-
	Total Cost Per Unit				#DIV/0!	
	Total Excluded Cost				\$	-













































































































Material Indirect Cost Factor

Changed 10-04-11

1.10140**Material**

1028550	Resin & hardener, epoxy electrical grade	\$	2.93	each	
1201400	55 volt starting aid (ignitor)	\$	33.57	each	
1201401	100 volt starting aid (ignitor)	\$	32.60	each	
1202700	Contact aid, electrical	\$	7.28	each	\$6.79 = 8oz./bottle zin No. 100 or equal
non stock	Cross arm fir, 4 pin (Old Item# 1204243)	\$	26.34	each	
1204329	Lightning arrestor	\$	44.86	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	\$	96.16	each	
1210151	150w lantern arm green	\$	511.77	each	
1210152	150w lantern arm black	\$	400.00	each	
1210186	Mitchell 6' upsweep bracket	\$	42.10	each	
1210187	Stub bracket for cut-off fixture	\$	19.90	each	
1210190	A31 mounting clamp single bracket	\$	24.06	each	
1210191	A21/A26 mounting clamp single bracket	\$	30.81	each	
1210196	A21/A26 mounting clamp double bracket	\$	38.64	each	
1210197	A31 mounting clamp double bracket	\$	43.22	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	\$	392.14	each	
1210400	lantern arm no-ballast green	\$	194.25	each	
1210401	lantern arm no-ballast black	\$	369.79	each	
non stock	Bushings, wood, 2 in. (Old Item# 1211860)	\$	0.67	each	for 1#8 F.S. cable
non stock	100 amp circuit breaker cabinet (old Item# 1214640)	\$	41.42	each	
1222308	2" rigid galvanized conduit	\$	3.25	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	\$	2.33	each	
1226562	100 amp 120/240 volt dura kool relay	\$	205.74	each	
1226640	Outlet Cab/Lgt Comm.Distr. MeterPed. 100 amp,120/240 volt,single phase,3-wire	\$	2,369.00	each	
1233720	2" PVC Continous Duct		\$0.79	foot	
non stock	3" PVC Continous Duct (Old Item# 1233730)		\$1.88	foot	
1233826	2.5" PVC Conduit	\$	0.50	foot	
1236186	transclosure, housing only, 54 in. X 54 in. X 71 in, steel, 1 gang	\$	2,375.00	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	\$	733.62	each
1238150	150w/240v.Milwaukee harp fixture black with outlet	\$	830.00	each (HoloPhane)
1238741	70w/240v. wall pack fixture	\$	186.07	each
1238939	Precast concrete base for ped pole (11"bolt cir. 22"Dx36"H)	\$	289.54	each
1244002	slip fit head no-ballast	\$	28.75	each
1244006	slip fit head 100w/240v.	\$	59.74	each
1244250	Milwaukee lantern green	\$	322.26	each
1244251	Milwaukee lantern black	\$	409.18	each
1244980	metal pedestal housing (4"x4"x36")	\$	31.91	each
1254250	50 watt hps lamp	\$	16.74	each
1254700	150 watt H.P.S. lamp	\$	10.17	each
1254702	250 watt H.P.S. lamp	\$	10.37	each
1254751	100 watt H.P.S lamp	\$	11.64	each
1254757	70 watt H.P.S. lamp	\$	12.13	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	\$	89.29	each
1260312	250 watt/240 volt cobra fixture	\$	100.70	each
1260316	250 watt/240 volt cut-off fixture	\$	364.11	each
non stock	150 watt/240 volt cut-off fixture (Old Item# 1260317)	\$	126.97	each
1267203	type II optical assembly	\$	38.61	each
1267265	type V optical assembly	\$	31.14	each
1272020	22' aluminum pole direct burial	\$	322.73	each
1272026	26' aluminum pole direct burial	\$	380.00	each
1272054	25' aluminum bolt down pole	\$	390.00	each
1272059	30' aluminum bolt down pole	\$	432.02	each
1272062	31' aluminum pole direct burial	\$	463.47	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)	\$	885.81	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	\$	727.98	each

1272143	26' black square concrete pole direct burial	\$	737.00	each	
1272145	A31 concrete pole direct burial (Gray)	\$	740.00	each	
1272146	A21 concrete pole direct burial	\$	620.00	each	
1272147	A26 concrete pole direct burial	\$	660.00	each	
1272148	A31 concrete pole direct burial (Black)	\$	1,250.00	each	
1272150	AT-31R concrete pole direct burial	\$	1,628.57	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	\$	2.23	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	\$	9.09	each	
1283208	Tape, rubber, 3/4 in.	\$	2.75	each	
1285540	70 watt HPS single coil series ballast	\$	162.15	each	
1285541	70 watt HPS double coil series ballast	\$	315.06	each	
1285542	70 watt HPS triple coil series ballast	\$	348.81	each	
1285550	100 watt HPS single coil series ballast	\$	203.88	each	
1285551	100 watt HPS double coil series ballast	\$	252.63	each	
1285552	100 watt HPS triple coil series ballast	\$	467.78	each	
1285560	150 watt HPS single coil series ballast	\$	174.88	each	
1285561	150 watt HPS double coil series ballast	\$	356.51	each	
1285570	250 watt HPS single coil series ballast	\$	236.16	each	
1285571	250 watt HPS double coil series ballast	\$	414.36	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	\$	0.90	foot
3400036	3#6 al. Triplex cable - secondary	\$	0.63	foot
3400439	1#8 concentric cable - primary	\$	1.67	foot
3400742	2#12 UF cable - secondary	\$	0.45	foot
3400799	3#2/1#8 LTP cable - secondary	\$	3.64	foot
3400804	3#4/1#8 LTP cable - secondary	\$	2.61	foot
3400812	3#12 UF cable - secondary	\$	0.66	foot
3400812	3#12 UF w/grd. cable - secondary	\$	0.66	foot
3400831	3#6/1#8 LTP cable - secondary	\$	1.72	foot
3400840	3#8/1#8 LTP cablr - secondary	\$	1.14	foot
3400851	3#10 UF cable - secondary	\$	1.02	foot
3420290	1#6 primary line wire	\$	0.74	foot
3420295	Wire type TW #6 stranded, black	\$	0.54	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	\$	2,000.00	each
non stock	1/0 bare copper wire	\$	2.00	LF
non stock	Metal pedestal base (Fabricated)	\$	100.00	each
non stock	11 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	6 ft. 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

Salary Rate =====>

87.90%

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

\$55.52

Labor Fringe Benefit, Indirect Salary, and Indirect Cost Factor	1.8790
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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

Fleet Services 2011 Rate Schedule Jan.31.2011

Aerial/Boom Trucks	\$ 6.63 hr.
Compressors	\$ 1.04 hr.
Constr. Equipment - Small	\$ 0.66 hr.
Constr. Equipment - Med	\$ 1.38 hr.
Constr. Equipment - Large	\$ 7.85 hr.
Dump Truck (Small)	\$ 3.63 hr.
Dump Truck (Med. & Lrg.)	\$ 5.77 hr.
Misc. Large Truck (Line Truck)	\$ 3.62 hr.
Pickup	\$ 2.35 hr.
Trailers (Pole & Cable)	\$ 0.18 hr.
Van [Heavy]	\$ 2.85 hr.

Equipment Additive **24.09%**

Crane with operator (Rental) **\$68.47** hr.

<u>Vehicle Or Equipment Type</u>	<u>Vehicle Hourly Rate Includes Fuel - does Not Include Operator (for Charging Internal City Projects Only)</u>	<u>Group Description of Equip</u>
Aerial/Boom Trucks	\$ 6.63	Aerial Man Lift Truck, Derric
Bridge Inspection Truck	\$ 27.35	Under Bridge Inspection Boon
Cars	\$ 1.28	Car-Station Wagon, Car Comm
Compressors	\$ 1.04	Compressor-Dump Truck M
Constr. Equipment - Small	\$ 0.66	Breaker for Backhoe, Concre
Constr. Equipment - Medium	\$ 1.38	Asphalt Reclaimer, Brush-Ch
Constr. Equipment - Large	\$ 7.85	Backhoe/Loader, Constructio
Containers	\$ 0.08	Rolloff Container
Custom Bus - Type Unit	\$ 2.29	Bookmobile, Mobile Medical U
Dump Truck -Small	\$ 3.63	One Ton Dump, Two Yard I
Dump Truck - Medium & Large	\$ 5.77	Contractor Dump Body, Du
Leaf Equipment	\$ 1.26	Leaf Hopper, Leaf Pan, Leaf
Miscellaneous	\$ 0.45	Boat-Non Police, Golf Cart, G
Miscellaneous Large Trucks	\$ 3.62	Gate Valve Turner Truck, Ma
Pickups	\$ 2.35	Carrall/Suburban Type, Comp
Plows	\$ 1.53	Snow Plow
Refuse Collection	\$ 11.15	Packer-Rear Load Container,
Salt Spreaders	\$ 1.11	Salt Spreader
Sewer Equipment	\$ 7.83	Misc.Sewer Cleaners, Sewer

Small Tractors	\$ 6.16	Lawn Mowers, Farm Tractor
Street Sweepers	\$ 28.74	Street Sweeper
Tow Trucks	\$ 3.38	Wrecker Heavy, Wrecker Lig
Trailers	\$ 0.18	Bucket Sewer Cleaner-Traile
Vans - Light	\$ 2.35	Cargo Van-Light, Van-Passe
Vans - Heavy	\$ 2.85	Cube Van, Step Van

Equipment

Back Digger, Log Loader

Box Truck

Compact, Car Midsize Mini-Passenger

Generator Mounted, Compressor-Trailer or Skid

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

Generator Unit

Dump

2 Ton 5 Yard, Dump-Over 3.5 Ton, Dump-Triaxle, Dump 5 Passenger Insulated, Dump Tandem Axle

Front-End Loader

Generators, Pressure Washer, Vehicle Heater/Tool Heater, Not Assigned to Rental Class

Garage Truck, Semi Tractor, Stake Truck, Tree Spade Truck, Tilt Top Car Carrier, Welders Truck

Generator Compressor Truck, Mini Pick Up Truck, Pick Up-Full Size, Pick Up Enclosed Body 4X4 (SUV), **Utility Body Pick Up**

Compactor, Packer Automated Side Loading, Packer Recycling Cart 25 YD, Packer Front/Top Loading, Packer W/O Compactor

Jet, Sewer Rodder

, Holder-Tractor, Trackless

ht

r, Chlorinator-Trailer, Infa Red-Trailer, Miscellaneous Trailer, Pressure Tester Trailer, **Trailer Cable Reel**, W
enger

, 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

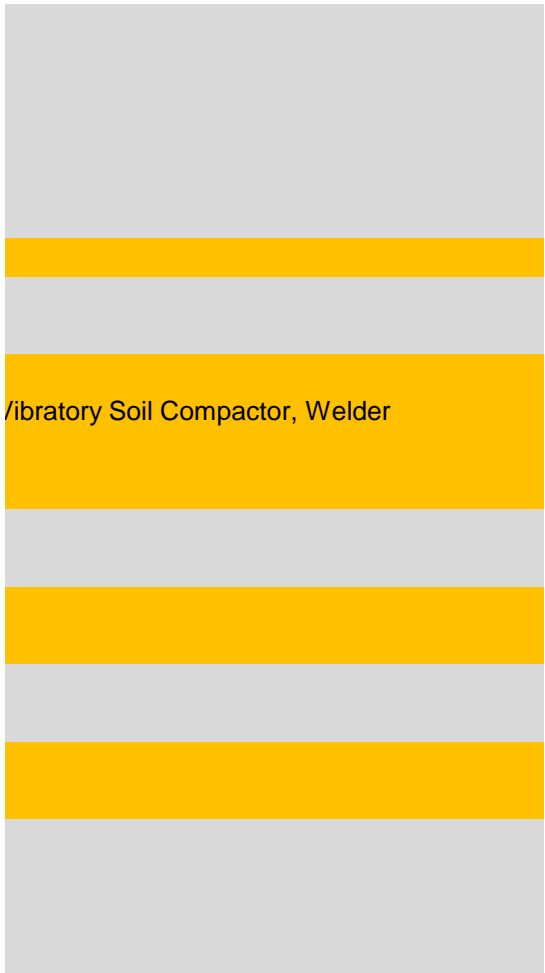
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Cart Lifters 25 YD, Packer with Cart Lifters 25 YD, Rolloff Truck

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

Pay Range	Job Title	Hourly Rates						Average	Highest Wage	
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	