

# AUSLEY McMULLEN

ATTORNEYS AND COUNSELORS AT LAW

123 SOUTH CALHOUN STREET  
P.O. BOX 391 (ZIP 32302)  
TALLAHASSEE, FLORIDA 32301  
(850) 224-9115 FAX (850) 222-7560

April 9, 2021

## **ELECTRONIC FILING**

Mr. Adam J. Teitzman, Commission Clerk  
Office of Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

Re: Docket 20210034-EI, Petition for Rate Increase by Tampa Electric Company

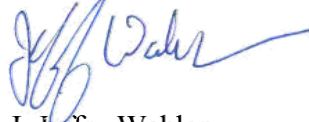
Dear Mr. Teitzman:

Attached for filing on behalf of Tampa Electric Company in the above-referenced docket are the Minimum Filing Requirements – Schedule E - Cost of Service and Rate Design Projected Test Year 2022 - Studies and Workpapers: Vol III of III - Lighting Incremental Cost Study.

Thank you for your assistance in connection with this matter.

(Document 31 of 34)

Sincerely,



J. Jeffrey Wahlen

JJW/ne  
Attachment

cc: Richard Gentry, Public Counsel  
Jon Moyle, FIPUG

# TAMPA ELECTRIC COMPANY

## LIGHTING COST OF SERVICE STUDY - 2021

REVISED March 13, 2021

## TABLE OF CONTENTS

SECTION 1	MAINTENANCE COSTS
SECTION 2	INSTALLATION COSTS
SECTION 3	INSTALLATION & MAINTENANCE LABOR
SECTION 4	MISCELLANEOUS SUPPORT

Rate Operand	TS or DTD	New Rate Code	
		Type of Service	Rate
TS-HPS-468	454	DTD	468
TS-HPS-478	484	DTD	478
TS-HPS-509	508	DTD	509
TS-MH-520	522	DTD	520
TS-HPS-550	534	DTD	550
TS-HPS-552	538	DTD	552
TS-MH-554	540	DTD	554
TS-MH-556	541	DTD	556
TS-MH-558	578	DTD	558
TS-MH-564	549	DTD	564
TS-HPS-566	536	DTD	566
TS-HPS-570	530	DTD	570
TS-HPS-571	531	DTD	571
TS-HPS-572	532	DTD	572
TS-HPS-573	533	DTD	573
TS-MH-574	548	DTD	574
TS-MH-575	568	DTD	575
TS-MH-576	577	DTD	576
TS-MH-700	720	DTD	700
TS-MH-701	721	DTD	701
TS-MH-702	722	DTD	702
TS-MH-703	723	DTD	703
TS-MH-704	724	DTD	704
TS-MH-705	725	DTD	705
TS-HPS-800	860	DTD	800
TS-HPS-802	862	DTD	802
TS-HPS-803	863	DTD	803
TS-HPS-804	864	DTD	804
TS-HPS-805	865	DTD	805
TS-HPS-806	866	DTD	806
TS-HPS-809	869	DTD	809
TS-HPS-810	870	DTD	810
TS-LED-820	840	DTD	820
TS-LED-821	841	DTD	821
TS-LED-822	842	DTD	822
TS-LED-823	843	DTD	823
TS-LED-824	844	DTD	824
TS-LED-825	845	DTD	825
TS-LED-826	846	DTD	826
TS-LED-827	847	DTD	827
TS-LED-828	848	DTD	828
TS-LED-829	849	DTD	829
TS-LED-830	850	DTD	830
TS-LED-831	851	DTD	831
TS-LED-832	852	DTD	832
TS-LED-833	853	DTD	833
TS-LED-834	854	DTD	834
TS-LED-835	855	DTD	835



TS-LED-836	856	DTD	836
DD-L17-912	981	DTD	912
DD-L17-914	901	DTD	914
DD-L17-921	902	DTD	921
DD-L17-926	982	DTD	926
DD-L17-932	903	DTD	932
DD-L17-935	904	DTD	935
DD-L17-937	905	DTD	937
DD-L17-941	983	DTD	941
DD-L17-945	906	DTD	945
DD-L17-947	984	DTD	947
DD-L17-951	985	DTD	951
DD-L17-953	986	DTD	953
DD-L17-956	987	DTD	956
DD-L17-958	907	DTD	958
DD-L17-965	991	DTD	965
DD-L17-967	988	DTD	967
DD-L17-968	989	DTD	968
DD-L17-971	992	DTD	971
DD-L17-972	993	DTD	972
DD-L17-973	994	DTD	973
DD-L17-975	990	DTD	975
TS-HPS-454	468	Timed	454
TS-HPS-484	478	Timed	484
TS-HPS-508	509	Timed	508
TS-MH-522	520	Timed	522
TS-HPS-530	570	Timed	530
TS-HPS-531	571	Timed	531
TS-HPS-532	572	Timed	532
TS-HPS-533	573	Timed	533
TS-HPS-534	550	Timed	534
TS-HPS-536	566	Timed	536
TS-HPS-538	552	Timed	538
TS-MH-540	554	Timed	540
TS-MH-541	556	Timed	541
TS-MH-548	574	Timed	548
TS-MH-549	564	Timed	549
TS-MH-568	575	Timed	568
TS-MH-577	576	Timed	577
TS-MH-578	558	Timed	578
TS-MH-720	700	Timed	720
TS-MH-721	701	Timed	721
TS-MH-722	702	Timed	722
TS-MH-723	703	Timed	723
TS-MH-724	704	Timed	724
TS-MH-725	705	Timed	725
TS-LED-840	820	Timed	840
TS-LED-841	821	Timed	841
TS-LED-842	822	Timed	842
TS-LED-843	823	Timed	843

TS-LED-844	824	Timed	844
TS-LED-845	825	Timed	845
TS-LED-846	826	Timed	846
TS-LED-847	827	Timed	847
TS-LED-848	828	Timed	848
TS-LED-849	829	Timed	849
TS-LED-850	830	Timed	850
TS-LED-851	831	Timed	851
TS-LED-852	832	Timed	852
TS-LED-853	833	Timed	853
TS-LED-854	834	Timed	854
TS-LED-855	835	Timed	855
TS-LED-856	836	Timed	856
TS-HPS-860	800	Timed	860
TS-HPS-862	802	Timed	862
TS-HPS-863	803	Timed	863
TS-HPS-864	804	Timed	864
TS-HPS-865	805	Timed	865
TS-HPS-866	806	Timed	866
TS-HPS-869	809	Timed	869
TS-HPS-870	810	Timed	870
TS-L17-981	912	Timed	981
TS-L17-901	914	Timed	901
TS-L17-902	921	Timed	902
TS-L17-982	926	Timed	982
TS-L17-903	932	Timed	903
TS-L17-904	935	Timed	904
TS-L17-905	937	Timed	905
TS-L17-983	941	Timed	983
TS-L17-906	945	Timed	906
TS-L17-984	947	Timed	984
TS-L17-985	951	Timed	985
TS-L17-986	953	Timed	986
TS-L17-987	956	Timed	987
TS-L17-907	958	Timed	907
TS-L17-991	965	Timed	991
TS-L17-988	967	Timed	988
TS-L17-989	968	Timed	989
TS-L17-992	971	Timed	992
TS-L17-993	972	Timed	993
TS-L17-994	973	Timed	994
TS-L17-990	975	Timed	990

HPS/MH

(1) Closed to new busine:

(2) Lumen output may var

(3) Wattage ratings do not

TIMER-563

BKT-569-PT

400 HPS Flat (564), clos

\* Total Unit Price Include

Rate Code	Description
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	..
563	Timer
569	PT Double Bracket

Rate Code
669

Description	Lamp Size				Cf Fixture
	Lamp Wattage (4)	Bulb Type	Initial Lumens (3)	kWh	
Flood	250	HPS	28,500	105	5.37
Flood	400	HPS	50,000	163	5.71
Post Top (PT)	50	HPS	4,000	20	3.98
Cobra	400	MH	32,000	159	6.03
Shoebox	100	HPS	9,500	44	8.01
Shoebox	400	HPS	50,000	163	9.52
Shoebox	400	MH	32,000	159	10.02
Flood	400	MH	32,000	159	8.36
Flood	1,000	MH	107,800	383	10.5
Shoebox	175	MH	12,800	74	7.95
Shoebox	250	HPS	28,500	105	8.69
Classic PT (Classic, Enh Classic, Promenade)	100	HPS	9,500	44	11.85
Contemporary PT	100	HPS	9,500	44	7.48
Colonial PT	100	HPS	9,500	44	11.75
Salem PT	100	HPS	9,500	44	9.03
General PT	175	MH	14,400	74	10.89
Salem PT	175	MH	14,400	74	9.38
Shoebox	1,000	MH	107,800	383	16.5
Salem PT	150	MH	12,000	67	9.33
General PT (Classic, Enh. Classic, Colonial)	150	MH	12,000	67	10.6
Shoebox	150	MH	12,000	67	7.22
Shoebox	350	MH	29,700	138	9.55
Cobra	350	MH	29,700	138	7.53
Flood	350	MH	29,700	138	8.55
Cobra	50	HPS	4,000	20	3.16
Cobra/Nema	70	HPS	6,300	29	3.2
Cobra/Nema	100	HPS	9,500	44	3.63
Cobra	150	HPS	16,000	66	4.18
Cobra	250	HPS	28,500	105	4.87
Cobra	400	HPS	50,000	163	5.09
Mongoose	400	HPS	50,000	163	6.5
Coach PT	70	HPS	6,300	29	4.71
Roadway	<del>403</del> 107	LED	7,577	36	11.15
Roadway	106	LED	8,300	37	11.15
Roadway	196	LED	15,300	69	14.58
Roadway	<del>206</del> 213	LED	14,831	72	16.8
Post Top	67	LED	3,974	24	19.67
Post Top	99	LED	6,030	35	20.51
Area-Lighter	<del>202</del> 211	LED	13,620	71	19.1
Area-Lighter	<del>309</del> 315	LED	21,197	108	20.6
Roadway	56	LED	5,155	20	7.27
Roadway	157	LED	15,285	55	11.1
Area-Lighter	152	LED	14,100	53	14.85
Flood	240)	LED	22,122	83	15.9
Flood	363)	LED	32,087	126	19.16
Mongoose	245	LED	24,140	86	14.71
Mongoose	328	LED	32,093	115	16.31
Classic Post Top	60	LED	5,176	21	16.53

Classic Post Top	100	LED	7,360	35	16.7
Roadway	27	L17	2,600	9	6.22
			4752 (3k)		
			5110 (4k)		
Roadway	47	L17	5392 (original 4k)	16	6.71
Roadway/Area-Lighter	88	L17	8,500	31	7
Roadway	105	L17	12,414	37	7.75
Roadway/Area-Lighter	133	L17	15,742	47	8.19
Roadway	143	L17	16,113	50	10.23
Roadway	145	L17	16,251	51	7.87
Roadway	182	L17	22,233	64	8.79
Roadway	247	L17	29,533	86	10.35
Area-Lighter	330	L17	33,600	116	16
Flood	199	L17	23,067	70	11.58
Flood	255	L17	33,113	89	14.68
Mongoose	225	L17	23,563	79	12.51
Mongoose	333	L17	34,937	117	14.74
Granville PT/ Lexington PT	40	L17	7030	9	7.9
Granville PT	39	L17	4,990	14	11.72
Granville Enhanced PT	39	L17	4,476	14	13.36
Salem PT	55	L17	5,240	19	13.29
Granville PT	60	L17	7,076	21	11.9
Granville Enhanced PT	60	L17	6,347	21	13.49
Salem PT	76	L17	7,188	27	13.73
Flood	250	HPS	28,500	52	5.37
Flood	400	HPS	50,000	81	5.71
Post Top (PT)	50	HPS	4,000	10	3.98
Cobra	400	MH	32,000	79	6.03
Classic PT	100	HPS	9,500	22	11.85
Contemporary PT	100	HPS	9,500	22	7.48
Colonial PT	100	HPS	9,500	22	11.75
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Shoebox	100	HPS	9,500	22	8.01
Shoebox	250	HPS	28,500	52	8.69
Shoebox	400	HPS	50,000	81	9.52
Shoebox	400	MH	32,000	79	10.02
Flood	400	MH	32,000	79	8.36
General PT	175	MH	14,400	37	10.89
Shoebox	175	MH	12,800	37	7.95
Salem PT	175	MH	14,400	37	9.38
Shoebox	1,000	MH	107,800	191	16.5
Flood	1,000	MH	107,800	191	10.5
Salem PT	150	MH	12,000	34	9.33
Colonial)	150	MH	12,000	34	10.6
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Roadway	105	L17	12,414	18	7.75
Roadway/Area-Lighter	133	L17	15,742	24	8.19
Roadway	143	L17	16,113	25	10.23
Roadway	145	L17	16,251	26	7.87
Roadway	182	L17	22,233	32	8.79
Roadway	247	L17	29,533	43	10.35
Area-Lighter	330	L17	33,600	58	16.00
Flood	199	L17	23,067	35	11.58
Flood	255	L17	33,113	45	14.68
Mongoose	225	L17	23,563	39	12.51
Mongoose	333	L17	34,937	59	14.74
Granville PT/ Lexington PT	26	L17	7030	5	7.90
Granville PT	39	L17	4,990	7	11.72
Granville Enhanced PT	39	L17	4,476	7	13.36
Salem PT	55	L17	5,240	10	13.29
Granville PT	60	L17	7,076	11	11.90
Granville Enhanced PT	60	L17	6,347	11	13.49
Salem PT	76	L17	7,188	13	13.73

ss  
y by lamp configuration and age.  
t include ballast losses.  
ed to new business April 18, 2000, no Customers. Rate reused for 175 MH Shoebox.

LED  
(1) Closed to  
(2) Average  
(3) Average  
(3rev) Averag  
(4) Enhanced F

s Base Energy & Clause Charges, does not include Tax

Facility	Maintenan ce	Facilities & Maintenanc
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			Description	TSN
\$7.54	\$1.43	<b>\$8.97</b>	Timer	
\$4.27	\$0.06	<b>\$4.33</b>	Double Bracket	2E+06

(not included on lighting tariff sheets)

Description	Lamp Size		Monthly Charges per Unit (\$)		
	Lamp Wattage	kWh	Fixture	Maintenance	Dusk-to-Dawn Non-
Ybor Archway Lighting (800 W)	800	280	<b>15.26</b>	<b>16.44</b>	<b>6.64</b>

Targets per Unit (\$)

Maint.	Fixture & Maint	Closed to New Business Y/N	Closed to New Business
2.6	7.97	Y	3/18/2003
3	8.71	Y	2/5/2015
2.48	6.46	Y	12/1/1995
4.01	10.04	Y	1/1/2009
1.89	9.9	Y	2/5/2015
2.44	11.96	Y	2/5/2015
3.97	13.99	Y	1/1/2009
4.02	12.38	Y	1/1/2009
8.17	18.67	Y	2/5/2015
3.7	11.65	Y	3/18/2003
3.18	11.87	Y	2/5/2015
1.89	13.74	Y	2/5/2015
1.93	9.41	Y	4/18/2000
1.89	13.64	Y	2/5/2015
1.89	10.92	Y	2/5/2015
3.73	14.62	Y	1/1/2009
3.74	13.12	Y	1/1/2009
8.17	24.67	Y	2/5/2015
3.92	13.25	Y	2/5/2015
3.92	14.52	Y	2/5/2015
3.92	11.14	Y	2/5/2015
4.93	14.48	Y	2/5/2015
4.99	12.52	Y	2/5/2015
5.04	13.59	Y	2/5/2015
2.48	5.64	Y	1/1/1995
2.11	5.31	Y	03/18/2003 (NEMA)
2.33	5.96	Y	01/05/2005 (NEMA)
2.02	6.2	Y	01/05/2015 (Cobra)
2.6	7.47	Y	2/5/2015
2.99	8.08	Y	2/5/2015
3.02	9.52	Y	2/5/2015
2.11	6.82	Y	02/03/1995 SLZ
1.19	12.34	Y	02/18/2003 CL 1
1.2	12.35	Y	2/6/2018
1.26	15.84	Y	2/6/2018
1.38	18.18	Y	2/6/2018
1.54	21.21	Y	2/6/2018
1.56	22.07	Y	2/6/2018
1.41	20.51	Y	2/6/2018
1.55	22.15	Y	2/6/2018
1.74	9.01	Y	2/6/2018
2.26	13.36	Y	2/6/2018
2.51	17.36	Y	2/6/2018
3.45	19.35	Y	2/6/2018
4.1	23.26	Y	2/6/2018
3.04	17.75	Y	2/6/2018
3.6	19.91	Y	2/6/2018
2.28	18.81	Y	2/6/2018

<-- zero

<-- zero

Rate Operand	Rate Code
P-UG-422PT	422
P-OH-425WD	425
P-UG-523CO	523
P-UG-525PT	525
P-UG-580PT	580
P-UG-581PT	581
P-UG-582PT	582
P-UG-583PT	583
P-UG-584PT	584
P-UG-585PT	585
P-UG-586PT	586
P-UG-587PT	587
P-UG-588CO	588
P-UG-589ST	589
P-UG-590PT	590
P-UG-591CO	591
P-UG-592PT	592
P-UG-593PT	593
P-OH-594CO	594
P-UG-595CO	595
P-UG-596CO	596
P-OH-597WD	597
P-UG-599PT	599
P-UG-607CO	607
P-UG-612CO	612
P-UG-614CO	614
P-UG-615AL	615
P-UG-616AL	616
P-UG-622AL	622
P-UG-623AL	623
P-UG-624PT	624
P-OH-626WD	626
P-OH-627WD	627
P-OH-637CO	637
P-UG-641EX	641



2.28	<b>18.98</b>	Y	2/6/2018
1.74	<b>7.96</b>		
1.74	<b>8.45</b>		
1.74	<b>8.74</b>		
1.19	<b>8.94</b>		
1.38	<b>9.57</b>		
1.41	<b>11.64</b>		
2.26	<b>10.13</b>		
2.51	<b>11.3</b>		
2.51	<b>12.86</b>		
1.55	<b>17.55</b>		
3.45	<b>15.03</b>		
4.1	<b>18.78</b>		
3.04	<b>15.55</b>		
3.6	<b>18.34</b>		
2.28	<b>10.18</b>		
2.28	<b>14</b>		
2.28	<b>15.64</b>		
1.54	<b>14.83</b>		
2.28	<b>14.18</b>		
2.28	<b>15.77</b>		
1.54	<b>15.27</b>		
2.6	<b>7.97</b>		3/18/2003
3	<b>8.71</b>		2/5/2015
2.48	<b>6.46</b>		12/1/1995
4.01	<b>10.04</b>		1/1/2009
1.89	<b>13.74</b>		2/5/2015
1.93	<b>9.41</b>		4/18/2000
1.89	<b>13.64</b>		2/5/2015
1.89	<b>10.92</b>		2/5/2015
1.89	<b>9.9</b>		2/5/2015
3.18	<b>11.87</b>		2/5/2015
2.44	<b>11.96</b>		2/5/2015
3.97	<b>13.99</b>		1/1/2009
4.02	<b>12.38</b>		1/1/2009
3.73	<b>14.62</b>		1/1/2009
3.7	<b>11.65</b>		3/18/2003
3.74	<b>13.12</b>		1/1/2009
8.17	<b>24.67</b>		2/5/2015
8.17	<b>18.67</b>		2/5/2015
3.92	<b>13.25</b>		2/5/2015
3.92	<b>14.52</b>		2/5/2015
3.92	<b>11.14</b>		2/5/2015
4.93	<b>14.48</b>		2/5/2015
4.99	<b>12.52</b>		2/5/2015
5.04	<b>13.59</b>		2/5/2015
1.19	<b>12.34</b>		2/6/2018
1.2	<b>12.35</b>		2/6/2018
1.26	<b>15.84</b>		2/6/2018
1.38	<b>18.18</b>		2/6/2018

1.54	21.21	2/6/2018	
1.56	22.07	2/6/2018	
1.41	20.51	2/6/2018	
1.55	22.15	2/6/2018	
1.74	9.01	2/6/2018	
2.26	13.36	2/6/2018	
2.51	17.36	2/6/2018	
3.45	19.35	2/6/2018	
4.1	23.26	2/6/2018	
3.04	17.75	2/6/2018	
3.6	19.91	2/6/2018	
2.28	18.81	2/6/2018	
2.28	18.98	2/6/2018	
2.48	5.64	1/1/1995	
2.11	5.31	03/10/2003 (NEMA)	
2.33	5.96	01/05/2005 (NEMA)	
2.02	6.2	01/05/2015 (Cobra)	
2.6	7.47	2/5/2015	
2.99	8.08	2/5/2015	
3.02	9.52	2/5/2015	
2.11	6.82	02/03/1993 DLZ	
1.74	7.96	02/18/2003 DLZ	
1.74	8.45		<-- new Timed
1.74	8.74		<-- new Timed
1.19	8.94		
1.38	9.57		<-- new Timed
1.41	11.64		<-- new Timed
2.26	10.13		<-- new Timed
2.51	11.3		
2.51	12.86		<-- new Timed
1.55	17.55		
3.45	15.03		
4.1	18.78		
3.04	15.55		
3.6	18.34		<-- new Timed
2.28	10.18		
2.28	14		
2.28	15.64		
1.54	14.83		<-- new Timed
2.28	14.18		<-- new Timed
2.28	15.77		<-- new Timed
1.54	15.27		

new business

wattage. Actual wattage may vary by up to +/- 5 watts.

e wattage. Actual wattage may vary by up to +/- 10%

Post Top. Customizable decorative options

Total - Unit Price
38.34

Tampa Electric Company  
LED Rates - Cost Supported

LED, 27W WATCH LIGHT  
912

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 102.30
2	Bracket, Bracket Cable, & Hardware	\$ 33.42
3	Network Lighting Control (NLC)	\$ 109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines 1-5 x 12.2187663471397%)	\$ 39.42
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	\$ 362.02
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	\$ 279.57
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	\$ 641.58
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 74.68
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 6.22
20		
21	<b>Monthly Maintenance Charge</b>	\$ 1.74
		\$ 7.96

Tampa Electric Company  
LED Rates - Cost Supported

LED, 47W AUTOBAHN/ AUTOBAHN MICRO  
914

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 147.07
2	Bracket, Bracket Cable, & Hardware	\$ 33.75
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%	\$ 44.93
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	<u>\$ 412.62</u>
7		
8	<b>Labor/Vehicle</b>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	<u>\$ 279.57</u>
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	<b>\$ 692.19</b>
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 80.57
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	<b>\$ 6.71</b>
20		
21	<b>Monthly Maintenance Charge</b>	<b>\$1.74</b>
		<b>\$ 8.45</b>

Tampa Electric Company  
LED Rates - Cost Supported

LED, 84W EVOLVE  
921

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 172.67
2	Bracket, Bracket Cable, & Hardware	\$ 34.56
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%)	\$ 48.15
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	\$ 442.26
7		
8	<b>Labor/Vehicle</b>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	\$ 279.57
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	\$ 721.83
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 84.02
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 7.00
20		
21	<b>Monthly Maintenance Charge</b>	\$1.74
		\$ 8.74

Tampa Electric Company  
LED Rates - Cost Supported

LED, 105W AUTOBAHN  
926

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 242.14
2	Bracket, Bracket Cable, & Hardware	\$ 33.57
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%)	\$ 56.52
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	\$ 519.10
7		
8	<b>Labor/Vehicle</b>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	\$ 279.57
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	\$ 798.67
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 92.97
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 7.75
20		
21	<b>Monthly Maintenance Charge</b>	\$1.19
		\$ 8.94

Tampa Electric Company  
LED Rates - Cost Supported

LED, 133W AUTOBAHN  
932

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 271.24
2	Bracket, Bracket Cable, & Hardware	\$ 44.81
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%)	\$ 61.45
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	\$ 564.37
7		
8	<b>Labor/Vehicle</b>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	\$ 279.57
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	\$ 843.94
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 98.23
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 8.19
20		
21	<b>Monthly Maintenance Charge</b>	\$1.38
		\$ 9.57



Tampa Electric Company  
LED Rates - Cost Supported

LED, 143W USSL EATON  
935

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 352.14
2	Bracket, Bracket Cable, & Hardware	\$ 151.70
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%)	\$ 84.40
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	<b>\$ 775.11</b>
7		
8	<b>Labor/Vehicle</b>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	<b>\$ 279.57</b>
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	<b>\$ 1,054.68</b>
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 122.76
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	<b>\$ 10.23</b>
20		
21	<b>Monthly Maintenance Charge</b>	<b>\$1.41</b>
		<b>\$ 11.64</b>

Tampa Electric Company  
LED Rates - Cost Supported

LED, 182W ARCHEON/VERDEON  
941

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 327.74
2	Bracket, Bracket Cable, & Hardware	\$ 44.23
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines 1-5 x 12.2187663471397%)	\$ 68.28
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	\$ 627.13
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	\$ 279.57
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	\$ 906.69
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 105.54
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 8.79
20		
21	<b>Monthly Maintenance Charge</b>	\$2.51
		\$ 11.30

Tampa Electric Company  
LED Rates - Cost Supported

LED, 247W VERDEON  
945

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 362.52
2	Bracket, Bracket Cable, & Hardware	\$ 152.18
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%	\$ 85.72
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	<b>\$ 787.30</b>
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	<b>\$ 279.57</b>
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	<b>\$ 1,066.87</b>
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 124.18
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	<b>\$ 10.35</b>
20		
21	<b>Monthly Maintenance Charge</b>	<b>\$2.51</b>
		<b>\$ 12.86</b>

Tampa Electric Company  
LED Rates - Cost Supported

LED, 330W EVOLVE/ 327W/ 305W  
947

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 881.49
2	Bracket, Bracket Cable, & Hardware	\$ 152.83
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines 1-5 x 12.2187663471397%)	\$ 149.21
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	\$ 1,370.40
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	\$ 279.57
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	\$ 1,649.97
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 192.06
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 16.00
20		
21	<b>Monthly Maintenance Charge</b>	\$ 1.55
		\$ 17.55

Tampa Electric Company  
LED Rates - Cost Supported

LED, 199W ACP FLOOD 6X6  
951

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 568.25
2	Bracket, Bracket Cable, & Hardware	\$ 59.36
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%	\$ 99.52
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	<b>\$ 914.00</b>
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	<b>\$ 279.57</b>
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	<b>\$ 1,193.57</b>
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 138.93
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	<b>\$ 11.58</b>
20		
21	<b>Monthly Maintenance Charge</b>	<b>\$3.45</b>
		<b>\$ 15.03</b>

Tampa Electric Company  
LED Rates - Cost Supported

LED, 252W FLOOD, 6X6  
953

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 775.48
2	Bracket, Bracket Cable, & Hardware	\$ 137.24
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%)	\$ 134.36
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	\$ 1,233.95
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	\$ 279.57
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	\$ 1,513.52
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 176.17
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 14.68
20		
21	<b>Monthly Maintenance Charge</b>	\$4.10
		\$ 18.78

Tampa Electric Company  
LED Rates - Cost Supported

LED, 225W GALLEON  
956

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 668.85
2	Bracket, Bracket Cable, & Hardware	\$ 44.17
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%)	\$ 109.96
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	\$ 1,009.86
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	\$ 279.57
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	\$ 1,289.42
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 150.09
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 12.51
20		
21	<b>Monthly Maintenance Charge</b>	\$3.04
		\$ 15.55

Tampa Electric Company  
LED Rates - Cost Supported

LED 26W GRNVIL PT/ 30W LEXINGTON PT  
965

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 311.62
2	Bracket, Bracket Cable, & Hardware	\$ -
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 60.91
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 559.40
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 182.94
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 254.62
12		
13	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 814.02
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 94.75
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 7.90
20		
21	<b>Monthly Maintenance Charge</b>	\$2.28
		\$ 10.18



Tampa Electric Company  
LED Rates - Cost Supported

LED 39W ENH GRNVL PT / 37W  
967

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 663.33
2	Bracket, Bracket Cable, & Hardware	\$ -
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 103.88
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	<b>\$ 954.08</b>
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 182.94
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	<b>\$ 254.62</b>
12		
13	<b>Total Installed Cost</b> (Line 6 + Line 11)	<b>\$ 1,208.70</b>
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 140.69
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	<b>\$ 11.72</b>
20		
21	<b>Monthly Maintenance Charge</b>	<b>\$2.28</b>
		<b>\$ 14.00</b>

Tampa Electric Company  
LED Rates - Cost Supported

LED 39W ENH GRNVL PT/ 37W  
968

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 813.82
2	Bracket, Bracket Cable, & Hardware	\$ -
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines 1-4 x 12.2187663471397%)	\$ 122.27
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,122.96
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 182.94
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 254.62
12		
13	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,377.58
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 160.35
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 13.36
20		
21	<b>Monthly Maintenance Charge</b>	\$ 2.28
		\$ 15.64

Tampa Electric Company  
LED Rates - Cost Supported

LED, 55W UTILITY PT  
971

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 807.10
2	Bracket, Bracket Cable, & Hardware	\$ -
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines 1-4 x 12.2187663471397%)	\$ 121.45
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,115.42
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 182.94
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 254.62
12		
13	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,370.04
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 159.47
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 13.29
20		
21	<b>Monthly Maintenance Charge</b>	\$ 1.54
		\$ 14.83

Tampa Electric Company  
LED Rates - Cost Supported

LED 60W GRNVIL PT/ 57W  
972

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 679.61
2	Bracket, Bracket Cable, & Hardware	\$ -
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 105.87
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 972.36
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 182.94
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 254.62
12		
13	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,226.98
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 142.82
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 11.90
20		
21	<b>Monthly Maintenance Charge</b>	\$2.28
		\$ 14.18

Tampa Electric Company  
LED Rates - Cost Supported

LED 60W ENH GRNVL PT/ 57W  
973

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 825.72
2	Bracket, Bracket Cable, & Hardware	\$ -
2	Network Lighting Control (NLC)	\$109.35
3	NLC Communication & Infrastructure	\$ 77.52
4	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 123.73
5	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,136.32
6		
7	<u>Labor/Vehicle</u>	
8	Installation	\$ 182.94
9	Engineering	\$ 71.68
10	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 254.62
11		
12	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,390.94
13		
14	15-Year Fixed Charge Rate	11.64%
15		
16	Yearly Facilities Charge (Line 14 x Line 16)	\$ 161.91
17		
18	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 13.49
19		
20	<b>Monthly Maintenance Charge</b>	\$2.28
		\$ 15.77

Tampa Electric Company  
LED Rates - Cost Supported

Aluminum, 10 ft, DB  
422

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 86.08
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 130.13
4	Conduit	\$ 103.17
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 39.02
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 358.41
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 629.23
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 670.48
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,028.89
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 119.76
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 9.98
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.30
		\$ 11.28

Tampa Electric Company  
LED Rates - Cost Supported

Wood (Inaccessible), 30 ft  
425

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 84.78
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 60.78
4	Conduit	\$ -
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 17.79
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 163.35
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 262.63
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 303.88
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 467.23
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 54.39
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 4.53
21		
22	<b>Monthly Maintenance Charge</b>	\$0.17
		\$ 4.70

Tampa Electric Company  
LED Rates - Cost Supported

Round, 23 ft, DB Concrete  
523

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 1,347.59
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 158.27
4	Conduit	\$ 127.98
5	Materials Handling (Lines 1-4 x 12.2187663471397%)	\$ 199.63
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,833.47
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 842.66
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 883.91
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,717.38
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 316.30
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 26.36
21		
22	<b>Monthly Maintenance Charge</b>	\$ 0.14
		\$ 26.50



Tampa Electric Company  
LED Rates - Cost Supported

Franklin Composite, PT, DB Composite  
525

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 808.04
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 158.27
4	Conduit	\$ 127.98
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 133.71
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,228.00
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 842.66
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 883.91
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,111.90
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 245.83
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 20.49
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.10
		\$ 21.59

Tampa Electric Company  
LED Rates - Cost Supported

Heritage, PT, DB Aluminum  
580

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 340.12
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 156.45
4	Conduit	\$ 126.38
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 76.12
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 699.06
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 828.89
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 870.14
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,569.20
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 182.66
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 15.22
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.10
		\$ 16.32

Tampa Electric Company  
LED Rates - Cost Supported

Capitol, PT, DB Aluminum  
581

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 944.99
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 156.45
4	Conduit	\$ 126.38
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 150.02
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,377.84
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 828.89
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 870.14
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,247.98
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 261.67
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 21.81
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.10
		\$ 22.91

Tampa Electric Company  
LED Rates - Cost Supported

Waterford, PT, DB Concrete  
583

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 870.74
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 158.27
4	Conduit	\$ 127.98
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 141.37
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,298.36
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 842.66
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 883.91
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,182.26
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 254.02
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 21.17
21		
22	<b>Monthly Maintenance Charge</b>	\$0.14
		\$ 21.31

Tampa Electric Company  
LED Rates - Cost Supported

Aluminum, PT, DB  
584

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 322.41
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 156.45
4	Conduit	\$ 126.38
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 73.95
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 679.19
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 828.89
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 870.14
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,549.33
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 180.34
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 15.03
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.10
		\$ 16.13

Tampa Electric Company  
LED Rates - Cost Supported

Charleston Banner, PT, DB Aluminum  
585

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 944.99
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 158.27
4	Conduit	\$ 127.98
5	Materials Handling (Lines 1-4 x 12.2187663471397%)	\$ 150.44
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,381.68
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 842.66
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 883.91
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,265.58
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 263.71
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 21.98
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.10
		\$ 23.08

Tampa Electric Company  
LED Rates - Cost Supported

Charleston, PT, DB Aluminum  
586

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 442.82
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 158.27
4	Conduit	\$ 127.98
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 89.08
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 818.15
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 842.66
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 883.91
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,702.05
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 198.12
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 16.51
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.10
		\$ 17.61

Tampa Electric Company  
LED Rates - Cost Supported

Riviera, PT, DB Aluminum  
587

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 442.82
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 156.45
4	Conduit	\$ 126.38
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 88.67
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 814.31
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 828.89
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 870.14
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,684.45
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 196.07
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 16.34
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.10
		\$ 17.44



Tampa Electric Company  
LED Rates - Cost Supported

Standard, 35 ft, DB Concrete  
588

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 372.76
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 301.92
4	Conduit	\$ 161.67
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 102.19
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 938.54
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,192.21
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,233.47
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,172.00
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 252.82
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 21.07
21		
22	<b>Monthly Maintenance Charge</b>	\$0.34
		\$ 21.41

Tampa Electric Company  
LED Rates - Cost Supported

Charleston HD, PT, DB Aluminum  
590

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 628.40
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 158.27
4	Conduit	\$ 127.98
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 111.76
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,026.40
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 842.66
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 883.91
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,910.31
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 222.36
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 18.53
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.10
		\$ 19.63

Tampa Electric Company  
LED Rates - Cost Supported

Tall Waterford, 35 ft, DB Concrete  
591

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 1,627.12
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 203.65
4	Conduit	\$ 167.99
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 244.22
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 2,242.98
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,186.89
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,228.14
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 3,471.13
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 404.04
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 33.67
21		
22	<b>Monthly Maintenance Charge</b>	\$ 0.14
		\$ 33.81

Tampa Electric Company  
LED Rates - Cost Supported

Victorian, PT, DB Concrete  
592

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 1,658.31
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 158.27
4	Conduit	\$ 127.98
5	Materials Handling (Lines 1-4 x 12.2187663471397%)	\$ 237.60
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 2,182.16
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 842.66
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 883.91
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 3,066.07
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 356.89
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 29.74
21		
22	<b>Monthly Maintenance Charge</b>	\$ 0.14
		\$ 29.88

Tampa Electric Company  
LED Rates - Cost Supported

Winston, PT, DB Aluminum  
593

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 279.46
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 150.82
4	Conduit	\$ 127.98
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 68.21
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 626.47
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 842.66
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 883.91
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,510.37
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 175.81
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 14.65
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.10
		\$ 15.75

Tampa Electric Company  
LED Rates - Cost Supported

Standard, 40/45 ft, Concrete  
594

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 643.04
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 195.27
4	Conduit	\$ -
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 102.43
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 940.74
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 288.33
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 329.58
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,270.33
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 147.87
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 12.32
21		
22	<b>Monthly Maintenance Charge</b>	\$0.31
		\$ 12.63

Tampa Electric Company  
LED Rates - Cost Supported

Standard, 25/30 ft, DB Concrete  
595

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 390.12
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 304.37
4	Conduit	\$ 164.87
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 105.00
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 964.36
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,219.75
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,261.00
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,225.36
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 259.03
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 21.59
21		
22	<b>Monthly Maintenance Charge</b>	\$ 0.14
		\$ 21.73

Tampa Electric Company  
LED Rates - Cost Supported

Wood, 40/45 ft  
597

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 285.73
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 68.62
4	Conduit	\$ -
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 43.30
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 397.65
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 288.33
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 329.58
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 727.23
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 84.65
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 7.05
21		
22	<b>Monthly Maintenance Charge</b>	\$0.31
		\$ 7.36



Tampa Electric Company  
LED Rates - Cost Supported

Standard, 16 ft, DB Concrete  
599

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 322.41
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 158.27
4	Conduit	\$ 127.98
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 74.37
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	<b>\$ 683.02</b>
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 842.66
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	<b>\$ 883.91</b>
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	<b>\$ 1,566.93</b>
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 182.39
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	<b>\$ 15.20</b>
21		
22	<b>Monthly Maintenance Charge</b>	<b>\$0.14</b>
		<b>\$ 15.34</b>

Tampa Electric Company  
LED Rates - Cost Supported

Std, >100ftspan, 35 ft, DB Conc  
607

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 372.76
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 293.34
4	Conduit	\$ 150.47
5	Materials Handling (Lines 1-4 x 12.2187663471397%)	\$ 99.77
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 916.34
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,095.83
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,137.08
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,053.42
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 239.02
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 19.92
21		
22	<b>Monthly Maintenance Charge</b>	\$ 0.34
		\$ 20.26

Tampa Electric Company  
LED Rates - Cost Supported

Std, 100-150ftspan, 35 ft, DB Conc  
612

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 372.78
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 298.85
4	Conduit	\$ 157.67
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 101.33
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 930.64
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,157.79
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,199.04
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,129.68
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 247.89
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 20.66
21		
22	<b>Monthly Maintenance Charge</b>	\$0.34
		\$ 21.00

Tampa Electric Company  
LED Rates - Cost Supported

Std, >150ftspan, 35 ft, DB Conc  
614

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 372.60
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 320.91
4	Conduit	\$ 186.47
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 107.52
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 987.51
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,405.64
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,446.89
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,434.40
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 283.36
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 23.61
21		
22	<b>Monthly Maintenance Charge</b>	\$0.34
		\$ 23.95

Tampa Electric Company  
LED Rates - Cost Supported

Aluminum, 28 ft, DB  
615

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 808.22
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 173.15
4	Conduit	\$ 150.47
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 138.30
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,270.13
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,085.59
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,126.84
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,396.96
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 279.01
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 23.25
21		
22	<b>Monthly Maintenance Charge</b>	\$0.34
		\$ 23.59

Tampa Electric Company  
LED Rates - Cost Supported

Aluminum, 37 ft, DB  
622

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 1,481.62
2	Foundation/Base	\$ 391.34
3	Cable, Hardware, Grounding	\$ 198.88
4	Conduit	\$ 184.07
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 275.64
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 2,531.56
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,374.74
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,415.99
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 3,947.55
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 459.50
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 38.29
21		
22	<b>Monthly Maintenance Charge</b>	\$0.34
		\$ 38.63

Tampa Electric Company  
LED Rates - Cost Supported

Waterside, 38 ft, DB Aluminum  
623

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 1,339.59
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 167.64
4	Conduit	\$ 143.26
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 201.67
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,852.16
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,023.62
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,064.88
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,917.04
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 339.54
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 28.30
21		
22	<b>Monthly Maintenance Charge</b>	\$3.85
		\$ 32.15

Tampa Electric Company  
LED Rates - Cost Supported

Fiber, PT, DB  
624

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 197.28
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 130.13
4	Conduit	\$ 103.17
5	Materials Handling (Lines 1-4 x 12.2187663471397%)	\$ 52.61
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 483.19
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 629.23
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 670.48
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,153.68
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 134.29
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 11.19
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.30
		\$ 12.49



Tampa Electric Company  
LED Rates - Cost Supported

Wood, 30 ft  
626

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 119.10
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 56.40
4	Conduit	\$ -
5	Materials Handling (Lines1-4 x 12.2187663471397%	\$ 21.44
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 196.94
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 256.51
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 297.76
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 494.71
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 57.58
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 4.80
21		
22	<b>Monthly Maintenance Charge</b>	\$0.17
		\$ 4.97

Tampa Electric Company  
LED Rates - Cost Supported

Wood, 35 ft  
627

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 145.39
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 69.09
4	Conduit	\$ -
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 26.21
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 240.68
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 289.55
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 330.81
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 571.49
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 66.52
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 5.54
21		
22	<b>Monthly Maintenance Charge</b>	\$ 0.17
		\$ 5.71

Tampa Electric Company  
LED Rates - Cost Supported

Standard, 35 ft, Concrete  
637

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 372.76
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 191.98
4	Conduit	\$ -
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 69.00
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 633.74
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 279.76
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 321.02
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 954.76
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 111.13
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 9.26
21		
22	<b>Monthly Maintenance Charge</b>	\$ 0.17
		\$ 9.43

Tampa Electric Company  
LED Rates - Cost Supported

LED, 145W AUTOBAHN  
937

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 242.44
2	Bracket, Bracket Cable, & Hardware	\$ 44.26
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%)	\$ 57.86
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	\$ 531.44
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	\$ 279.57
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	\$ 811.00
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 94.40
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 7.87
20		
21	<b>Monthly Maintenance Charge</b>	\$2.26
		\$ 10.13

Tampa Electric Company  
LED Rates - Cost Supported

LED, 333W GALLEON  
958

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 873.93
2	Bracket, Bracket Cable, & Hardware	\$ 44.04
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-5 x 12.2187663471397%	\$ 135.00
6	<b>Total Materials</b> (Sum of Lines 1 through 6)	\$ 1,239.84
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 207.89
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 10 + Line 11)	\$ 279.57
12		
13	<b>Total Installed Cost</b> (Line 7 + Line 12)	\$ 1,519.40
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 176.86
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 14.74
20		
21	<b>Monthly Maintenance Charge</b>	\$3.60
		\$ 18.34

Tampa Electric Company  
LED Rates - Cost Supported

LED, 76W UTILITY PT  
975

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Luminaire	\$ 847.78
2	Bracket, Bracket Cable, & Hardware	\$ -
3	Network Lighting Control (NLC)	\$109.35
4	NLC Communication & Infrastructure	\$ 77.52
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 126.42
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	<b>\$ 1,161.07</b>
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 182.94
10	Engineering	\$ 71.68
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	<b>\$ 254.62</b>
12		
13	<b>Total Installed Cost</b> (Line 6 + Line 11)	<b>\$ 1,415.69</b>
14		
15	15-Year Fixed Charge Rate	11.64%
16		
17	Yearly Facilities Charge (Line 14 x Line 16)	\$ 164.79
18		
19	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	<b>\$ 13.73</b>
20		
21	<b>Monthly Maintenance Charge</b>	<b>\$1.54</b>
		<b>\$ 15.27</b>

Tampa Electric Company  
LED Rates - Cost Supported

Winston, PT, DB Fiber  
582

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 182.35
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 158.27
4	Conduit	\$ 127.98
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 57.26
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 525.85
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 842.66
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 883.91
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 1,409.76
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 164.10
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 13.67
21		
22	<b>Monthly Maintenance Charge</b>	\$ 1.10
		\$ 14.77

Tampa Electric Company  
LED Rates - Cost Supported

Steel, 30 ft, AB  
589

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 970.47
2	Foundation/Base	\$ 391.34
3	Cable, Hardware, Grounding	\$ 174.99
4	Conduit	\$ 152.87
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 206.46
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,896.12
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,106.24
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,147.49
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 3,043.61
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 354.28
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 29.52
21		
22	<b>Monthly Maintenance Charge</b>	\$1.68
		\$ 31.20



Tampa Electric Company  
LED Rates - Cost Supported

Standard, 45 ft, DB Concrete  
596

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 659.47
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 301.92
4	Conduit	\$ 161.67
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 137.22
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 1,260.28
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,192.21
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,233.47
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 2,493.74
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 290.27
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 24.19
21		
22	<b>Monthly Maintenance Charge</b>	\$ 0.14
		\$ 24.33

Tampa Electric Company  
LED Rates - Cost Supported

Aluminum, 27 ft, DB  
616

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ 1,504.61
2	Foundation/Base	\$ 391.34
3	Cable, Hardware, Grounding	\$ 196.43
4	Conduit	\$ 180.87
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 277.76
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 2,551.02
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ 1,347.20
10	Engineering	\$ 41.25
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ 1,388.46
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 3,939.48
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 458.56
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 38.21
21		
22	<b>Monthly Maintenance Charge</b>	\$0.34
		\$ 38.55

Tampa Electric Company  
LED Rates - Cost Supported

Wood, Existing Pole  
641

<u>Line</u>	<u>Material</u>	<u>Cost</u>
1	Pole	\$ -
2	Foundation/Base	\$ -
3	Cable, Hardware, Grounding	\$ 236.61
4	Conduit	\$ 187.57
5	Materials Handling (Lines1-4 x 12.2187663471397%)	\$ 51.83
6	<b>Total Materials</b> (Sum of Lines 1 through 5)	\$ 476.01
7		
8	<u>Labor/Vehicle</u>	
9	Installation	\$ -
10	Engineering	\$ -
11	<b>Total Labor/Vehicle</b> (Line 9 + Line 10)	\$ -
12		
13		
14	<b>Total Installed Cost</b> (Line 6 + Line 11)	\$ 476.01
15		
16	15-Year Fixed Charge Rate	11.64%
17		
18	Yearly Facilities Charge (Line 14 x Line 16)	\$ 55.41
19		
20	<b>Monthly Facilities Charge</b> (Line 18 / 12 months)	\$ 4.62
21		
22	<b>Monthly Maintenance Charge</b>	\$0.34
		\$ 4.96

Tampa Electric Company  
LED Rates - Cost Supported



Lighting Marginal Cost of Service Study Input - \$			
Timed Code	DTD Code	Luminaires	Equipment & Installation Cost
454	468	250W HPS Flood	no change
484	478	400W HPS Flood	no change
508	509	50W HPS Post Top (PT)	no change
522	520	400W MH Cobra	no change
534	550	100W HPS Shoebox	no change
538	552	400W HPS Shoebox	no change
540	554	400W MH Shoebox	no change
541	556	400W MH Flood	no change
578	558	1000W MH Flood	no change
549	564	175W MH Shoebox	no change
536	566	250W HPS Shoebox	no change
530	570	100W HPS Classic PT (Classic, Enh Classic, Pro	no change
531	571	100W HPS Contemporary PT	no change
532	572	100W HPS Colonial PT	no change
533	573	100W HPS Salem PT	no change
548	574	175W MH General PT	no change
568	575	175W MH Salem PT	no change
577	576	1000W MH Shoebox	no change
720	700	150W MH Salem PT	no change
721	701	150W MH General PT (Classic, Enh. Classic, Col	no change
722	702	150W MH Shoebox	no change
723	703	350W MH Shoebox	no change
724	704	350W MH Cobra	no change
725	705	350W MH Flood	no change
860	800	50W HPS Cobra	no change
862	802	70W HPS Cobra/Nema	no change
863	803	100W HPS Cobra/Nema	no change
864	804	150W HPS Cobra	no change
865	805	250W HPS Cobra	no change
866	806	400W HPS Cobra	no change
869	809	400W HPS Mongoose	no change
870	810	70W HPS Coach PT	no change
840	820	103 107W LED Roadway	no change
841	821	106W LED Roadway	no change
842	822	196W LED Roadway	no change
843	823	206 213W LED Roadway	no change
844	824	67W LED Post Top	no change
845	825	99W LED Post Top	no change
846	826	202 211W LED Area-Lighter	no change
847	827	309 315W LED Area-Lighter	no change
848	828	56W LED Roadway	no change
849	829	157W LED Roadway	no change
850	830	152W LED Area-Lighter	no change
851	831	238 (236 & 240)W LED Flood	no change
852	832	359 (354 & 363)W LED Flood	no change
853	833	245W LED Mongoose	no change
854	834	328W LED Mongoose	no change
855	835	60W LED Classic Post Top	no change
856	836	100W LED Classic Post Top	no change

981	912	27W L17 Roadway	\$641.58
901	914	47W L17 Roadway	\$692.19
902	921	88W L17 Roadway/Area-Lighter	\$721.83
982	926	105W L17 Roadway	\$798.67
903	932	133W L17 Roadway/Area-Lighter	\$843.94
904	935	143W L17 Roadway	\$1,054.68
905	937	145W L17 Roadway	\$811.00
983	941	182W L17 Roadway	\$906.69
906	945	247W L17 Roadway	\$1,066.87
984	947	330W L17 Area-Lighter	\$1,649.97
985	951	199W L17 Flood	\$1,193.57
986	953	255W L17 Flood	\$1,513.52
987	956	225W L17 Mongoose	\$1,289.42
907	958	333W L17 Mongoose	\$1,519.40
991	965	2630W L17 Granville PT/ Lexington PT	\$814.02
988	967	39W L17 Granville PT	\$1,208.70
989	968	39W L17 Granville Enhanced PT	\$1,377.58
992	971	55W L17 Salem PT	\$1,370.04
993	972	60W L17 Granville PT	\$1,226.98
994	973	60W L17 Granville Enhanced PT	\$1,390.94
990	975	76W L17 Salem PT	\$1,415.69
	669	Ybor Archway	no change
Code	Poles	Equipment & Installation	
422	Aluminum, 10 ft, DB Aluminum	\$1,028.89	
425	Wood (Inaccessible), 30 ft	\$467.23	
523	Round, 23 ft, DB Concrete	\$2,717.38	
525	Franklin Composite, PT, DB Composite	\$2,111.90	
580	Heritage, PT, DB Aluminum	\$1,569.20	
581	Capitol, PT, DB Aluminum	\$2,247.98	
582	Winston, PT, DB Fiber	\$1,409.76	
583	Waterford, PT, DB Concrete	\$2,182.26	
584	Aluminum, PT, DB Aluminum	\$1,549.33	
585	Charleston Banner, PT, DB Aluminum	\$2,265.58	
586	Charleston, PT, DB Aluminum	\$1,702.05	
587	Riviera, PT, DB Aluminum	\$1,684.45	
588	Standard, 35 ft, DB Concrete	\$2,172.00	
589	Steel, 30 ft, AB Steel	\$3,043.61	
590	Charleston HD, PT, DB Aluminum	\$1,910.31	
591	Tall Waterford, 35 ft, DB Concrete	\$3,471.13	
592	Victorian, PT, DB Concrete	\$3,066.07	
593	Winston, PT, DB Aluminum	\$1,510.37	
594	Standard, 40/45 ft, Concrete	\$1,270.33	
595	Standard, 25/30 ft, DB Concrete	\$2,225.36	
596	Standard, 45 ft, DB Concrete	\$2,493.74	
597	Wood, 40/45 ft	\$727.23	
599	Standard, 16 ft, DB Concrete	\$1,566.93	
607	Std, >100ftspan, 70/100W,, 35 ft, DB Conc	\$2,053.42	
612	Std, 100-150ftspan,150W,, 35 ft, DB Conc	\$2,129.68	
614	Std, >150ftspan,250/400W, 35 ft, DB Conc	\$2,434.40	
615	Aluminum, 28 ft, DB Aluminum	\$2,396.96	
616	Aluminum, 27 ft, DB Aluminum	\$3,939.48	
622	Aluminum, 37 ft, DB Aluminum	\$3,947.55	
623	Waterside, 38 ft, DB Aluminum	\$2,917.04	
624	Fiber, PT, DB Fiber	\$1,153.68	
626	Wood, 30 ft	\$494.71	
627	Wood, 35 ft	\$571.49	
637	Standard, 35 ft, Concrete	\$954.76	
641	Existing Pole,	\$476.01	
Code	Miscellaneous	Equipment & Installation	
569	DUAL PT BRACKET	no change	

563	TIMER DEVICE	no change
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\$1.74
\$1.74
\$1.74
\$1.19
\$1.38
\$1.41
\$2.26
\$2.51
\$2.51
\$1.55
\$3.45
\$4.10
\$3.04
\$3.60
\$2.28
\$2.28
\$2.28
\$1.54
\$2.28
\$2.28
\$1.54
no change
<b>Monthly Maintenance</b>
\$1.30
\$0.17
\$0.14
\$1.10
\$1.10
\$1.10
\$1.10
\$0.14
\$1.10
\$1.10
\$1.10
\$1.10
\$1.10
\$0.34
\$1.68
\$1.10
\$0.14
\$0.14
\$1.10
\$0.31
\$0.14
\$0.14
\$0.31
\$0.14
\$0.34
\$0.34
\$0.34
\$0.34
\$0.34
\$0.34
\$0.34
\$0.34
\$0.34
\$3.85
\$1.30
\$0.17
\$0.17
\$0.17
\$0.34
<b>Monthly Maintenance</b>
no change

no change

**SUMMARY - AVERAGE INSTALLATION UNIT TIMES - TEC FIELD**  
Installation Labor - Fixture/Pole - TEC; Conduit/Conductor - TEC  
Maintenance Labor - TEC  
Vehicle as a % of Labor (TEC only)

Engineering	Field		Office		NLC Integration		Total	
	\$/unit	hours/unit	\$/unit	hours/unit	\$/unit		\$/unit	hours/unit
Light Fixture, New Install, New Pole	\$ 13.95	0.15	\$ 10.21	0.13	\$ 32.26		\$ 56.42	0.28
Light Fixture, New Install, Existing Pole	\$ 31.95	0.34	\$ 33.46	0.43	\$ 32.26		\$ 97.67	0.77
Avg Light Fixture, New Install	\$ 20.61	0.22	\$ 18.81	0.24	\$ 32.26		\$ 71.68	0.46
Ybor Archway, New Install, 2 Light Strings	\$ 96.41	1.03	\$ 96.95	1.25			\$ 193.36	2.28
Relay Control Equipment	part of existing job	-	\$19.39	0.25			\$ 19.39	0.25
Timer	part of existing job	-	\$15.51	0.20			\$ 15.51	0.20
PT Double Bracket	part of existing job	-	\$15.51	0.20			\$ 15.51	0.20
Pole	\$ 18.00	0.19	\$ 23.25	0.30			\$ 41.25	0.49
							\$ 510.79	\$ 4.94

NonPT 3.2% 95.2% 1.6% 100.0%  
All 2.3% 67% 1% 94.7%

Install	Al & Steel	Post Top	UG Conc	OH Conc & Wood	Total	
					\$/unit	hours/unit
Trench & Install Conduit					\$5.52	0.04
Pull UG Conductor (includes install HH and terminations)					\$1.37	0.01
Run OH Cable (set or existing pole)					\$1.22	0.01
Install UG Svc to Existing Wood Pole					\$235.58	1.15
Fixture, New Install, New Pole	\$ 149.82		\$ 149.82	\$ 156.28	\$ 149.92	0.73
PT Fixture, New Install, New Pole		\$ 123.78			\$ 123.78	0.60
Fixture, New Install/Add'l Fixture or Existing Pole	\$ 207.89		\$ 207.89	\$ 207.89	\$ 207.89	1.25
PT Fixture, New Install/Add'l Fixture or Existing Pole		\$ 182.94			\$ 182.94	1.10
Avg Fixture, Install	\$ 180.85		\$ 180.85	\$ 183.86	\$ 180.90	1.01
PT Avg Fixture, Install		\$ 155.40			\$ 155.40	0.87
Hand Hole					\$25.31	0.32
PT Double Bracket, New Install					\$ 61.46	0.30
Ybor Archway, New Install, 2 Light Strings					\$ 1,190.08	6.08
Haul & Set Pole	\$ 168.60	\$ 145.98	\$ 178.84	\$ 109.65	\$ 160.51	0.78
fixture hours/Unit (new pole)	0.73	0.60	0.73	0.76		
fixture hours/Unit (add'l fixture or existing pole)	1.25	1.10	1.25	1.25		
pole hours/Unit	0.82	0.71	0.87	0.54		

per foot  
per foot  
per foot



Engineering Office - Relay-or-Timer-or Post Top  
Double Bracket

E/O Crew Hourly rate \$ 77.56

Line No.

	# Fixtures Avg	Relay	w/Timer	PT Double Bracket
1	Office Design Work			
2				
3	Lighting Design - Design software	10	10	10
4	Electrical Design	5	2	2
5	CIAC	0	0	0
6	Packaging Work Request	<i>existing job</i>		
7	Prepare to Travel	<i>existing job</i>		
8	subtotal time (min)	15	12	12
9	subtotal time (hr)	0.25	0.20	0.20
10				
11	\$/unit	\$19.39	\$15.51	\$15.51
12	hrs/unit	0.25	0.20	0.20

Engineering Field - Design Work

E/F Crew Hourly rate \$ 93.30

Time Allocation split between pole and fixture

Line No.	Scenario # Fixtures Avg	Avg Rdwy Span, staggered for 0.5mi				Time Allocation:
		x<5	10>x>25	6>x>many		
		1	17.5	10	19.5	
1	Field Design Work					
2	Trips to job site	Small	Subdivision Install	Commerical Install	Street /Blvd Lights Install	
4		1	3	4	3	
5	FIELD VISIT 1					
6	Travel Time	24	24	24	24	S
7	Secure Vehicle	1	2	2	3	S
8	Customer Contact (Intro Meeting)	5	23	45	-	S
9	Product offering w/ Cust (brochure)	5	-	-	-	S
10	Contract Explanation	5	-	-	-	F
11	Site inspection	5	-	-	30	S
12	Preliminary sketch (wheel, engineering tools)	25	-	-	-	S
13	Prepare to Travel	2	0	0	0	S
14	subtotal time (min)	72	48.5	71	57	
16						
17	FIELD VISIT 2					
18	Travel Time		24	24	24	S
19	Secure Vehicle		2	2	3	S
20	Pre Construction Meeting		15	30		S
21	Product offering w/ Cust (brochure)		10	10	10	S
22	Contract Explanation		10	10	-	F
23	Preliminary sketch (wheel, engineering tools)		0	0	45	S
24	Review Electronic CAD drawings		40	40	15	S
25	Prepare to Travel		0	0	0	S
26	subtotal time (min)	0	101	116	97	
28						
29	FIELD VISIT 3					
30	Travel Time		24	24	24	P
31	Secure Vehicle		2	2	3	P
32	Conduit Issue/Crew Visit		15	20		P
33	Staking of Site				33	P
34	Prepare to Travel		0	0	0	P
35	subtotal time (min)	0	41	46	59.6	

37						
38	FIELD VISIT 4					
39	Travel Time			24		P
40	Secure Vehicle			2		P
41	Crew Visit			15		P
42	Prepare to Travel			0		P
43		subtotal time (min)	0	0	41	0
45	TOTAL					
46	Combined subtotal time (min)	72	190.5	274	213.6	
47	Combined subtotal time (hr)	1.20	3.18	4.57	3.56	
48						Avg per Job
49	Fixture Subtotal time (min)	38.5	79.8	98.5	77.0	
50	Fixture Subtotal time (hr)	0.64	1.33	1.64	1.28	1.25
51	Pole Subtotal time (min)	33.5	110.8	175.5	136.6	
52	Pole Subtotal time (hr)	0.56	1.85	2.93	2.28	2.14
53						
54		Visits	x>5	10>x>25	6>x>many	18.3/side
55	Visit 1 Duration			45		
56	Visit 1 (Intro Meeting) % attended			50%		
57	Visit 2 Duration			30		
58	Visit 2 (Pre Construction Meeting) % attended			50%		
59	Staking of Site (min per light)					
60						



63  
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70

Scenario	Ratio	Unit Count	Fixture			Pole			TOTAL	
			Cost	Unit Cost	Hrs/Unit	Cost	Unit Cost	Hrs/Unit	Unit Cost	Hrs/Unit
<b>Avg per Unit for Fixture w new Pole*</b>				\$13.95	0.15			\$18.00	0.19	\$31.95
<b>Fixture Only*</b>				\$31.95	0.34					
Small, < 5	12.5%	1	\$59.87	\$59.87		\$52.09		\$52.09		
Subdivision, 10>x>25	0.0%	17.5	\$124.01	\$7.09		\$172.22		\$9.84		
Commercial, 6>X>many	11.8%	10	\$153.17	\$15.32		\$272.90		\$27.29		
Street/Blvd, 18.3 per side	75.7%	19.5	\$119.74	\$6.15		\$212.41		\$10.92		
Average Roadway Span (OH&UG)			136		ft					
* Normalized by Pole/Job Distribution Ratio			100.0%		75.7%					

Engineering Office - Design Work

E/O Crew Hourly rate

\$ 77.56

Line No.	Scenario #Fixtures Avg	Avg Rdwy Span, staggered for 0.5mi				Time Allocation:
		x<5	10>x>25	6>x>many	19.5	
1	Office Design Work - Preliminary					
2	Trips to job site	Small	Subdivision	Commerical	Street /Blvd	
3		1	Install	Install	Lights Install	
4	FIELD VISIT 1					
5	Lighting Design - Design software	10	87.5	50	97.3	F
6	Lighting Design - Design Revisions	0	20	20	20	F
7	CIAC	0	10	10	10	S
8	Electrical Design	60	120	90	150	P
9	Permitting				60	P
10	Packaging Work Request	10	20	15	15	S
11	subtotal time (min)	80	257.5	185	352.3	
12	subtotal time (hr)	1.33	4.29	3.08	5.87	
13						
14	Fixture Subtotal time (min)	15.0	122.5	82.5	129.8	
15	Fixture Subtotal time (hr)	0.25	2.04	1.38	2.16	
16	Pole Subtotal time (min)	65.0	135.0	102.5	222.5	
17	Pole Subtotal time (hr)	1.08	2.25	1.71	3.71	

18  
19  
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21  
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Scenario	Ratio	Avg Fixtures	Fixture			Pole			TOTAL	
			Cost	Unit Cost	Hrs/Unit	Cost	Unit Cost	Hrs/Unit	Unit Cost	
<b>Avg per Unit for Fixture w new Pole*</b>				\$10.21	0.13			\$23.25	0.30	\$33.46
<b>Fixture Only*</b>				\$33.46	0.43					
Small, < 5	12.5%	1	\$19.39	\$19.39		\$84.02		\$84.02		
Subdivision, 10>x>25	0.0%	17.5	\$158.35	\$9.05		\$174.51		\$9.97		
Commercial, 6>X>many	11.8%	10	\$106.65	\$10.66		\$132.50		\$13.25		
Street/Blvd, 18.3 per side	75.7%	19.5	\$167.75	\$8.62		\$287.62		\$14.78		
		Average Roadway Span (OH&UG)	136	ft						
			100.0%							
			75.7%							

\* Normalized by Pole/Job Distribution Ratio

**Trench & Install Conduit**

part of Install Pole/Install Fixture Task

Time Allocation 100% pole

CC2

Crew Hourly rate

\$ 146.32

Line No.		UG Install 1	UG Install 3	UG Install 4	
	Trips to job site:				
	Feet:	≤100Ft	< 500Ft<1000Ft	>1000Ft	
1	Install conduit				
2					
3					
4					
5	FIELD VISIT 1				
6	<b>Load Material</b>	<b>10</b>	<b>20</b>	<b>25</b>	per day
7	Travel Time (Install)	24	24	24	
8	Safety Tail Board (Set cones, safety flashers, etc)	5	5	5	per day
9	Unload Equip (Backhoe, air compressor)	6	6	6	
10	<b>Unload Material (PVC, hand tools)</b>	<b>6</b>	<b>6</b>	<b>8</b>	
11	Spot Utilities	10	10	10	
12	<b>Dig Trench</b>	<b>120</b>	<b>185</b>	<b>165</b>	
13	<b>Install conduit (cutting, gluing, blow rabbit)</b>	<b>10</b>	<b>21</b>	<b>25</b>	
14	<b>Pull Tape</b>	<b>5</b>	<b>6</b>	<b>7</b>	
15	<b>Back fill</b>	<b>90</b>	<b>123</b>	<b>132</b>	
16	Load Equipment	6	6	6	per day
17	Load Material	5	5	5	per day
18	Complete DARs	5	5	5	per day
19	<b>Prepare to Travel</b>	<b>4</b>	<b>4</b>	<b>4</b>	
20	subtotal time (min)	306	425	427	
21	subtotal time (hr)	5.1	7.1	7.1	
22					
23	FIELD VISIT 2				
24	<b>Load Material</b>		<b>20</b>	<b>25</b>	per day
25	Travel Time (Install)		24	24	
26	Safety Tail Board (Set cones, safety flashers, etc)		5	5	per day
27	Unload Equip (Backhoe, air compressor)		6	6	
28	<b>Unload Material (PVC, hand tools)</b>		<b>6</b>	<b>8</b>	
29	<b>Dig Trench</b>		<b>185</b>	<b>165</b>	
30	<b>Install conduit (cutting, gluing, blow rabbit)</b>		<b>21</b>	<b>25</b>	
31	<b>Pull Tape</b>		<b>6</b>	<b>7</b>	
32	<b>Back fill</b>		<b>123</b>	<b>132</b>	
33	Load Equipment		6	6	per day
34	Load Material		5	5	per day
35	Complete DARs		5	5	per day
36	<b>Prepare to Travel</b>		<b>4</b>	<b>4</b>	
37	subtotal time (min)	0	415	417	
38	subtotal time (hr)	0.0	6.9	6.9	
39					



**Install Hand Hole**

*part of Pull Conductor in Conduit Task*

*Time Allocation 100% pole*

CC1

Crew Hourly rate

\$ 159.85

*Uses 1/2 of Two Man Crew rate*

Line No.

	<i>New Install/ Part of Existing Visit/ Only</i>	<i>New Install/ Part of Existing Visit/First</i>	<i>Next One</i>
1	Install Hand Hole	1	1
2	Load Material	1	1
3	Travel Time (Install)	<i>existing trip</i>	<i>existing trip</i>
4			
5	Pull Material Off Truck	4	3
6	Dig Hole	5	5
7	Install Hand Hold	5	5
8	Prepare to Travel NxtPole	4	4
9	Set up Bucket NxtPole	0	2
10	Prepare to Travel	<i>existing trip</i>	<i>existing trip</i>
11	subtotal time (min)	19	20
12	subtotal time (hr)	0.32	0.33

Single HH Install \$25.31 *Uses 1/2 of Two Man Crew*  
Hrs/Single Unit 0.32

**Pull UG Conductor in Conduit**

part of Install Pole/Install Fixture Task

part of Install UG Svc to Wood Pole Task

Time Allocation 100% pole

CC1 Crew Hourly rate \$ 159.85

Line No.		UG Install	UG Install	UG Install	
1	Install Conductor in Conduit				
2	Feet:	100	500	1000	
3	Load Material in Yard	10	10	10	
4	Travel Time (Install)	24	24	24	
5	Set Up Bucket (Install)	6	6	6	
6	Safety Tail Board (Set cones, safety flashers, etc)	5	5	5	
7	Unload Equip (Backhoe, air compressor)		6	6	
8	Unload Material (wire, hand tools)	5	5	5	
9	Pull in Wire	3	15	30	
10	Install Handhole(s) (1 every Avg Span, 1.5 first span)	10	49.8	92.3	Time Halved - Uses 1/2 of Two Man Crew
11	Terminate conductor (both ends) to URD Hand Hole	5	12.3	22.9	
12	Dig In & Connect to Secondary	Install	Install	Install	
13	Load Equipment		6	6	
14	Load Material	2	2	2	
15	Complete DARs	5	5	5	
16	Prepare to Travel (Install)	4	4	4	
17	subtotal time (min)	78.5	150	218	
18	subtotal time (hr)	1.31	2.50	3.64	
19					
20	Terminate Connector for One HH	5			
21					
22					
23	Scenario	per Foot Ratio	Unit Cost	Hrs/Unit	Uses 1/2 of Two Man Crew
24	Avg per Unit*		\$1.37	0.009	
25	≤100Ft	48.9%	\$2.09	0.013	
26	< 500Ft<1000Ft	21.6%	\$0.80	0.005	
27	>1000Ft	29.4%	\$0.58	0.004	

\* Normalized by Pole/Job Distribution

**Run OH Conductor**

*part of Install Pole/Install Fixture Task, need LN1*

LN1

Crew Hourly rate

\$ 204.85

*Time Allocation 100% pole*

Line No.

1	Install OH Conductor	<i>Install</i>
2	Load Material	6
3	Travel Time (Install)	<u><i>existing trip</i></u>
4	Pull Material Off Truck	5
5	Measure Cable	10
6	Raise Bucket	1
7	Connect to Luminaire	3
8	Pull OH Conductor - Hang & Sag	15
9	Prepare to Travel NxtPole	4
10	Set up Bucket NxtPole	2
11	Connect to Secondary Feed	<u>2</u>
12	Prepare to Travel	<u><i>existing trip</i></u>
13	subtotal time (min)	48
14	subtotal time (hr)	0.80

15					
16	<b>Scenario</b>	<i>Avg OH Span (ft)</i>	<i>Cost</i>	<i>Unit Cost</i>	<i>Hrs/Unit</i>
17	<b>Avg per Unit*</b>	134	\$163.88	1.22	0.01 <i>per foot</i>

\* distributed over Average OH Span





**Install New Fixture Only**  
*assuming conduit and cable is pulled (UG), existing pole*

All w Fixture

LN2 Crew Hourly rate \$ 166.31

Line No.	New Fixture	Cobra, Shoebox, Flood	Post Top
1	Load Material	6	6
2	Travel Time (Install)	24	24
3	Set up Bucket	7	6
4	Make up Material (fixture & bracket)	8	6
5	Wire New Fixture/Bracket & Install on Pole	15	11
6	Energize (All)	2	2
7	Raise Bucket	1	-
8	Commision and Install new NLC	5	5
9	Test Light	2	2
10	Prepare to Travel	5	4
11	subtotal time (min)	75	66
12	subtotal time (hr)	1.25	1.10

*Additional*

Unit Cost	\$207.89	\$182.94
Hrs/Unit	1.25	1.10

**Install UG Service to existing Wood Pole**

*part of Install Fixture Task, need LN1*

LN1 Crew Hourly rate

\$ 204.85

*Time Allocation 100% pole*

Line No.		
1	Install UG Svc to Wood Pole	<i>Install</i>
2	Load Material	<u>6</u>
3	Travel Time (Install)	<u><i>existing trip</i></u>
4	Trench and Install Conduit (UG only)	<u><i>separate task</i></u>
5	Run OH Conductor (OH only)	<u><i>separate task</i></u>
6	Install Hand Hole	<u><i>separate task</i></u>
	Connect to Secondary (UG only)	<u>5</u>
7	Pull Material Off Truck	5
8	Measure & Make up Conduit & Cable for Svc	20
9	Dig to Install Conduit & Elbow Below Ground	20
10	Attach Svc Conduit to Pole w/Straps	10
11	Connect Pole Wire to HH (UG)	<u>8</u>
12	Energize	<u><i>Fixture Task</i></u>
13	<u>Prepare to Travel</u>	<u><i>existing trip</i></u>
14	subtotal time (min)	69
15	subtotal time (hr)	1.15

*Existing Pole*

<i>Unit Cost</i>	<i>Hrs/Unit</i>
\$235.58	1.15



**Install New Pole & New Fixture**

assuming conduit and cable is pulled (UG)

Al & Steel w Fixture

LN1 Crew Hourly rate

\$ 204.85

Time Allocation split between pole and fixture

LN2 Crew Hourly rate

\$ 166.31

Line No.	Description	All Install -				Time Allocation:
		< 3	All Install - First	Interim	All Install - Last	
1	New Pole (w/Fixture)					
	Trench and Install Conduit (UG only)	separate task				P
2	Pull Wire and Install Conductor (OH only)	separate task				P
3	Install Hand Hole	separate task - part of Install Conductor				
	Connect to Secondary (UG only)	separate task				S
4	Load Material	6	6	6	6	S
5	Travel Time (Install)	24	24	2	2	S
6	Set up Bucket	7	7	2	2	S
7	Set up Site/Pole Hauler	5	5	3	3	P
8	Make up Material (fixture & bracket)	8	8	8	8	F
9	Make up Material (pole)	2	2	2	2	P
10	Run Cable down thru Pole (UG only)	12	12	12	12	P
11	Wire New Fixture/Bracket & Install on Pole	15	15	15	15	F
12	Dig Hole/Set Pole	10	10	10	10	P
13	Run OH Conductor (OH only)	separate task				P
14	Connect Pole Wire to HH (UG)	8	8	8	8	P
15	Energize (All)	2	2	2	2	F
16	Raise Bucket	1	1	1	1	F
17	Commision and Install new NLC	5	5	5	5	F
18	Test Light	2	2	2	2	F
19	Restore Site/Stow Material	6	2	2	6	P
20	Prepare to Travel	5	5	5	5	S
21	subtotal time (min)	118	114	85	89	
22	subtotal time (hr)	1.97	1.90	1.42	1.48	
23	Fixture Subtotal time (min)	54	54	40.5	40.5	
24	Fixture Subtotal time (hr)	0.90	0.90	0.68	0.68	
25	Pole Subtotal time (min)	64	60	44.5	48.5	
26	Pole Subtotal time (hr)	1.07	1.00	0.74	0.81	
27	Fixture Only Total time (min)	75	75	48	48	
28	Fixture Only Total time (hr)	1.25	1.25	0.80	0.80	

Additional

\* Normalized by Pole/Job Distribution Ratio

Scenario	Fixture				Pole			Fixture and Pole Unit		
	Ratio UG	Cost	Unit Cost	Hrs/Unit	Cost	Unit Cost	Hrs/Unit	Cost	Unit Cost	Calc Hrs/Unit
Avg per Unit*			\$149.82	0.73		\$168.60	0.82		\$318.42	1.55
Fixture Only			\$207.89	1.25						
< 3	8.6%	\$184.37	\$184.37	0.90	\$218.51	\$218.51	1.07	\$402.87	\$402.87	1.97
3>=4	10.3%	\$530.05	\$151.44	0.74	\$598.33	\$170.95	0.83	\$1,128.38	\$322.39	1.57
5<=x<7 & multiple	81.1%	\$875.73	\$145.96	0.71	\$978.16	\$163.03	0.80	\$1,853.89	\$308.98	1.51
	100.0%									

\* Normalized by Pole/Job Distribution Ratio

**Install New Pole & New Fixture**  
*assuming conduit and cable is pulled (UG)*

Post Top w Fixture

LN1 Crew Hourly rate \$ 204.85  
 LN2 Crew Hourly rate \$ 166.31

*Time Allocation split between pole and fixture*

Line No.	New Pole (w/Fixture)	All Install -				Time Allocation:
		< 3	All Install - First	Interim	All Install - Last	
1	Trench and Install Conduit (UG only)	<i>separate task</i>				P
2	Pull Wire and Install Conductor (OH only)	<i>separate task</i>				P
3	Install Hand Hole	<i>separate task - part of Install Conductor</i>				
4	Connect to Secondary (UG only)					S
4	Load Material	6	6	6	6	S
5	Travel Time (Install)	24	24	2	2	S
6	Set up Bucket	6	6	2	2	S
7	Set up Site/Pole Hauler	5	5	3	3	P
8	Make up Material (fixture & bracket)	6	6	6	6	F
9	Make up Material (pole)	2	2	2	2	P
10	Run Cable down thru Pole (UG only)	6	6	6	6	P
11	Wire New Fixture/Bracket & Install on Pole	11	11	11	11	F
12	Dig Hole/Set Pole	10	10	10	10	P
13	Run OH Conductor (OH only)	<i>separate task</i>				P
14	Connect Pole Wire to HH (UG)	8	8	8	8	P
15	Energize (All)	2	2	2	2	F
16	Raise Bucket	-	-	-	-	F
17	Commission and Install new NLC	5	5	5	5	F
18	Test Light	2	2	2	2	F
19	Restore Site/Stow Material	6	2	2	6	P
20	Prepare to Travel	4	4	4	4	S
21	subtotal time (min)	103	99	71	75	
22	subtotal time (hr)	1.72	1.65	1.18	1.25	
23	Fixture Subtotal time (min)	46	46	33	33	
24	Fixture Subtotal time (hr)	0.77	0.77	0.55	0.55	
25	Pole Subtotal time (min)	57	53	38	42	
26	Pole Subtotal time (hr)	0.95	0.88	0.63	0.70	
27	Fixture Only Total time (min)	66	66	40	40	
28	Fixture Only Total time (hr)	1.10	1.10	0.67	0.67	

Additional

\* Normalized by Pole/Job Distribution Ratio

Scenario	Fixture			Pole			Fixture and Pole Unit			
	Ratio UG	Cost	Unit Cost	Hrs/Unit	Cost	Unit Cost	Hrs/Unit	Cost	Unit Cost	Calc Hrs/Unit
<b>Avg per Unit*</b>			\$123.78	0.60		\$145.98	0.71		\$269.76	1.32
<b>Fixture Only</b>			\$182.94	1.10						
< 3	8.6%	\$157.05	\$157.05	0.77	\$194.61	\$194.61	0.95	\$351.66	\$351.66	1.72
3>=4	10.3%	\$438.72	\$125.35	0.61	\$518.95	\$148.27	0.72	\$957.67	\$273.62	1.34
5<=7 & multiple	81.1%	\$720.39	\$120.06	0.59	\$843.30	\$140.55	0.69	\$1,563.69	\$260.61	1.27

\* Normalized by Pole/Job Distribution Ratio

**Install New Pole & New Fixture**  
*assuming conduit and cable is pulled (UG)*

UG Conc w Fixture

LN1 Crew Hourly rate \$ 204.85  
 LN2 Crew Hourly rate \$ 166.31

*Time Allocation split between pole and fixture*

Line No.	Description	All Install -	All Install - First	All Install -	All Install - Last	Time
1	New Pole (w/Fixture)	<i>separate task</i>				P
1	Trench and Install Conduit (UG only)	<i>separate task</i>				P
2	Pull Wire and Install Conductor (OH only)	<i>separate task</i>				S
3	Install Hand Hole	<i>separate task - part of Install Conductor</i>				S
4	Load Material	6	6	6	6	S
5	Travel Time (Install)	24	24	2	2	S
6	Set up Bucket	7	7	2	2	S
7	Set up Site/Pole Hauler	5	5	3	3	P
8	Make up Material (fixture & bracket)	8	8	8	8	F
9	Make up Material (pole)	2	2	2	2	P
10	Run Cable down thru Pole (UG only)	15	15	15	15	P
11	Wire New Fixture/Bracket & Install on Pole	15	15	15	15	F
12	Dig Hole/Set Pole	10	10	10	10	P
13	Run OH Conductor (OH only)	<i>separate task</i>				P
14	Connect Pole Wire to HH (UG)	8	8	8	8	P
15	Energize (All)	2	2	2	2	F
16	Raise Bucket	1	1	1	1	F
17	Commision and Install new NLC	5	5	5	5	F
18	Test Light	2	2	2	2	F
19	Restore Site/Stow Material	6	2	2	6	P
20	Prepare to Travel	5	5	5	5	S
21	subtotal time (min)	121	117	88	92	
22	subtotal time (hr)	2.02	1.95	1.47	1.53	
23	Fixture Subtotal time (min)	54	54	40.5	40.5	
24	Fixture Subtotal time (hr)	0.90	0.90	0.68	0.68	
25	Pole Subtotal time (min)	67	63	47.5	51.5	
26	Pole Subtotal time (hr)	1.12	1.05	0.79	0.86	
27	Fixture Only Total time (min)	75	75	48	48	
28	Fixture Only Total time (hr)	1.25	1.25	0.80	0.80	

Additional

\* Normalized by Pole/Job Distribution Ratio

Scenario	Fixture				Pole			Fixture and Pole Unit		
	Ratio UG	Cost	Unit Cost	Hrs/Unit	Cost	Unit Cost	Hrs/Unit	Cost	Unit Cost	Calc Hrs/Unit
<b>Avg per Unit*</b>			\$149.82	0.73		\$178.84	0.87		\$328.66	1.60
<b>Fixture Only</b>			\$207.89	1.25						
< 3	8.6%	\$184.37	\$184.37	0.90	\$228.75	\$228.75	1.12	\$413.11	\$413.11	2.02
3>x>4	10.3%	\$530.05	\$151.44	0.74	\$634.18	\$181.19	0.88	\$1,164.23	\$332.64	1.62
5<x<7 & multiple	81.1%	\$875.73	\$145.96	0.71	\$1,039.61	\$173.27	0.85	\$1,915.35	\$319.22	1.56

\* Normalized by Pole/Job Distribution Ratio

**Install New Pole & New Fixture**  
*assuming conduit and cable is pulled (UG)*

Wood & OH Conc w Fixture

LN1 Crew Hourly rate \$ 204.85  
 LN2 Crew Hourly rate \$ 166.31

*Time Allocation split between pole and fixture*

Line No.	Description	All Install - < 3	All Install - First	All Install - Interim	All Install - Last	Time Allocation:
1	New Pole (w/Fixture)					
1	Trench and Install Conduit (UG only)	<i>separate task</i>				P
2	Pull Wire and Install Conductor (OH only)	<i>separate task</i>				P
3	Install Hand Hole					
	Connect to Secondary (UG only)	<i>separate task - part of Install Conductor</i>				S
4	Load Material	6	6	6	6	S
5	Travel Time (Install)	24	24	2	2	S
6	Set up Bucket	7	7	2	2	S
7	Set up Site/Pole Hauler	5	5	3	3	P
8	Make up Material (fixture & bracket)	8	8	8	8	F
9	Make up Material (pole)	2	2	2	2	P
10	Run Cable down thru Pole (UG only)	0	0	0	0	P
11	Wire New Fixture/Bracket & Install on Pole	15	15	15	15	F
12	Dig Hole/Set Pole	10	10	10	10	P
13	Run OH Conductor (OH only)	<i>separate task</i>				P
14	Connect Pole Wire to HH (UG)	-	-	-	-	P
15	Energize (All)	2	2	2	2	F
16	Raise Bucket	1	1	1	1	F
17	Commission and Install new NLC	5	5	5	5	F
18	Test Light	2	2	2	2	F
19	Restore Site/Stow Material	6	2	2	6	P
20	Prepare to Travel	5	5	5	5	S
21	subtotal time (min)	98	94	65	69	
22	subtotal time (hr)	1.63	1.57	1.08	1.15	
23	Fixture Subtotal time (min)	54	54	40.5	40.5	
24	Fixture Subtotal time (hr)	0.90	0.90	0.68	0.68	
25	Pole Subtotal time (min)	44	40	24.5	28.5	
26	Pole Subtotal time (hr)	0.73	0.67	0.41	0.48	
27	Fixture Only Total time (min)	75	75	48	48	
28	Fixture Only Total time (hr)	1.25	1.25	0.80	0.80	

*Additional*

\* Normalized by Pole/Job Distribution Ratio

Scenario	Fixture				Pole			Fixture and Pole Unit		
	Ratio OH	Cost	Unit Cost	Hrs/Unit	Cost	Unit Cost	Hrs/Unit	Cost	Unit Cost	Calc Hrs/Unit
<b>Avg per Unit*</b>			\$156.28	0.76		\$109.65	0.54		\$265.93	1.30
<b>Fixture Only</b>			\$207.89	1.25						
< 3	24.5%	\$184.37	\$184.37	0.90	\$150.22	\$150.22	0.73	\$334.59	\$334.59	1.63
3>x>4	16.4%	\$530.05	\$151.44	0.74	\$359.34	\$102.67	0.50	\$889.39	\$254.11	1.24
5<x<7 & multiple	59.0%	\$875.73	\$145.96	0.71	\$568.46	\$94.74	0.46	\$1,444.19	\$240.70	1.18

\* Normalized by Pole/Job Distribution Ratio



**Install Post Top Double Bracket**  
*part of Install New Pole/New Fixture Task*

Post Top

LN1 Crew Hourly rate \$ 204.85

Line No.

1	Install Post top Double Bracket	<u>Bucket</u>
	Travel Time (Install)	<u>existing trip</u>
6	Make up Double Bracket & Fixtures	6
7	Install Double Bracket & Fixtures	12
8	Prepare to Travel	<u>existing trip</u>
9	subtotal time (min)	18
10	subtotal time (hr)	0.30

	<i>Unit Cost</i>	<i>Hrs/Unit</i>
\$	61.46	0.30

Installation labor cost formula =crew hourly rate x

**Labor and Vehicle Costs - Installation & Maintenance**

Line No.	Labor Adders Assumptions			from 2017
1		A&G	=	72.6% 74.0%
2		Small Tools % for TEC Field Labor	=	5.39% 4.53%
3		% Supv & Admin TEC Lighting - TEC Labor	=	6.15% 18.44%
4		% Supv & Admin for Contractor Labor	=	41.32% 37.26%
5		% Fleet as a % of Labor (rate of settled labor w/fringe)	=	14.81% 19.87%
6		% Fleet as a % of Labor (rate excluding 37% fringe)	=	20.29% 27.22%
7		Material Handling Labor	=	12.22% 15.31%
8		15-Yr Fixed Charge Rate	=	11.64% 13.72%
<b>TEC Engineering Labor Multiplier</b>		(1+ Line 1 + Line 3)	TEC Engineering Labor	<b>178.8%</b>
<b>TEC FieldCrew Labor Multiplier</b>		(1+ Line 1 + Line 2 +Line 3)	TEC Field Labor	<b>184.2%</b>
<b>Other Crew Labor Multiplier</b>		(1 + Line 4)	Contractor Labor	<b>141.3%</b>

Crew			Units	Composition	Description	Unit Cost	Total Labor	Fleet as a % of Labor	%Fleet Vehicle Rate 14.81 % Combined Cost/Hr w Fleet as a % of Labor
<u>E/F</u>	E/F - Engineering Field		1	Field Engineering Technician		43.38	77.56		<b>93.30</b>
			1	Light Vehicle				15.74	
<u>E/O</u>	E/O - Engineering Office		1	Field Engineering Technician		43.38	77.56		<b>77.56</b>

Crew	Description	Units	Composition/Activity	Unit Cost	Total Labor (w/A&G)	Fleet as a % of Labor	%Fleet Vehicle Rate 14.81 % Combined Cost/Hr w Fleet as a % of Labor
CC1	CC1 - Conductor Crew (TEC)	1	UG Service Technican	34.60	139.23	20.62	159.85
			Service Technician	41.00			
CC2	CC2 - Conduit Crew (TEC)	2	UG Service Technican	34.60	127.44	18.88	146.32
LN1	LN1 - Line Crew (TEC)	1	Utility Worker	18.23	178.42	26.43	204.85
			Apprentice LineWorker III	32.38			
			LineWorker	46.27			
LN2	LN2 - Line Crew (TEC)	1	Apprentice LineWorker III	32.38	144.85	21.46	166.31
			LineWorker	46.27			
LN3	LN2 - Line Crew (TEC)	1	Utility Worker	18.23	238.05	35.26	273.31
			Apprentice LineWorker III	32.38			
			LineWorker	46.27			
PT1	PT - Paint Crew (TEC)	2	Utility Worker	18.23	67.15	9.95	77.10
PT2	PT - Paint Crew (TEC)	2	Apprentice LineWorker III	32.38	119.27	17.67	136.94
MOT	MOT - MOT Crew (TEC)	2	Utility Worker	18.23	67.15	9.95	77.10
SL1	SL1 - Street Light Crew (TE	1	Lighting Specialist	30.84	56.80	8.42	65.22
SL2	SL2 - Street Light Crew (TE	2	Lighting Specialist	30.84	113.59	16.83	130.42
SL3	SL3 - Street Light Crew (TE	1	Utility Worker	18.23	33.57	4.98	38.55
SL4	SL4 - Street Light Crew (TE	1	Lighting Specialist	30.84	98.90	14.65	113.55
			Special Utility Worker	22.86			
SL5	SL5 - Street Light Crew (TE	1	Sr. Lighting Specialist	32.43	101.82	15.08	116.90 <i>new</i>
			Special Utility Worker	22.86			
SS1	SS1 - System Service Crew	1	Troubleshooter	50.54	93.08	13.79	106.87

**Conduit Contractor Unit Costs**

2021-2023 Lighting Contractor Rates		up to 100'	up to 500'	up to 1000'	over 1000'	conduit in exist trench	galvanized conduit riser
<b>Machine Trench:</b>							
Contractor 1	2" PVC	\$7.27	\$3.36	\$2.10	\$0.00	\$0.00	\$0.00
	3" PVC	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contractor 2	2" PVC	\$7.47	\$4.23	\$4.09	\$3.17	\$0.65	\$21.05
	3" PVC	\$7.47	\$4.23	\$4.09	\$3.17	\$0.65	\$26.31
Average	2" PVC	\$7.40	\$3.94	\$3.42	\$2.11	\$0.43	\$15.79



MATERIAL AND LABOR ADJUSTMENTS

	Annual	Hourly	# on staff
2021 Repairman Supervisor (0)	\$103,770	\$49.89	
2021 Sr. Coordinator, Lighting Maintenance (0)	\$65,750.00	\$31.61	
2021 DDT (0)	\$90,240.00	\$43.38 Field Engineering Technician	
2021 LFET (Average)	\$73,076.00	\$35.13	
2021 LFET (4)	\$65,750		10
2021 LFET (5)	\$76,470		4
2021 LFET Supervisor (0)	\$124,760		1
			0
			15

- 2021 Apprentice Lineworker III
- 2021 Sr. Lighting Specialist
- 2021 Lighting Specialist
- 2021 Lineman
- 2021 Service Technician
- 2021 Special Utility Worker
- 2021 Troubleshooter
- 2021 UG Service Technician
- 2021 Utility Worker

- 32.38
- 32.43
- 32.47
- 46.27
- 41.00
- 22.86
- 50.54
- 34.60
- 18.23

- old titles
- Apprentice Lineman III
- Lighting Repairman
- Lineman
- Serviceman
- Special Utility Worker
- Troubleshooter
- UG Serviceman
- Utility Worker

CONTRACTOR

Unit Price

Team Final Outdoor Lighting Contract.

- In#1 Pole Unit includes: pole, one fixture, hardware where applicable, and bracket, pole & bracket wire. D/ August 1, 2015 - July 31, 2018
- In#2 12' to 26' Concrete Pole Unit
- In#3 25' to 30' Concrete/Wood Pole Unit
- In#4 35' Concrete/Wood Pole Unit
- In#5 40' to 45' Concrete/Wood Pole Unit
- In#6 37' Aluminum Pole wirebreakaway base unit set on existing foundation
- In#7 18' to 32' Aluminum/Steel Pole Unit
- In#8 Wood in rear for non-accessible by truck; includes backhard mach
- In#9 install screw base
- In#10 install anchor and down guy for lighting pole
- In#11 Jet in Poles
- In#20 install fixture on existing pole
- In#21 install additional fixture on new pole

- 180.94
- 173.31
- 250.34
- 140.82
- 515.03
- 165.85
- 121.67
- 53.88
- 77.77
- 73.19

- very rare NEW installations. Replacements as needed.
- Steel Poles only - replacements, bc will try to use alternate pole not requiring a screw base where possible. No new screw base installations.
- pendic for maintenance, or adding an anchor for an existing installation.
- 1 in 50, 3-4 mo (rainy season); independent of Pole Type (includes all types, not as much FT than others)



LED, 27W WATCH LIGHT						
Accessories for 12 ft bracket						
anchor						-
compound						-
conduit						-
screw						-
strap						-
Weighted Average Bracket Accessories Cost						\$ -
12-foot bracket percentage			0.0%			\$ -
Bracket and Accessory Weighted Average Cost						\$ 24.52
PHOTOCONTROL						
New NLC for LED	New NLC for LED	\$109.35		1	100.0%	109.35
Weighted Average Photocontrol Cost	% PC				100%	\$ 109.35
Control Equipment Average Cost						\$ 109.35
BRACKET CABLE (Cu, Triplex, 600V 2/C, 10AWG)						
20 IN	2004166	\$ 0.59	18.8%	3		0.33
4 FT	2004166	\$ 0.59	67.1%	6		2.38
6 FT	2004166	\$ 0.59	14.1%	8		0.67
8 FT						-
10 FT						-
12 FT						-
12 FT 5 JU						-
12 FT 10 JU						-
Bracket Cable Weighted Average Cost						\$ 3.37
FIXTURE HARDWARE						
Pole Hardware wood/conc						
WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	2078006	\$ 0.17		2		0.34
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$ 1.36		2		2.72
Decal	<i>weighted avg</i>	\$ 0.60		1		0.60
						\$ 3.66
Overhead Service Hardware						
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2		1.80
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	\$ 0.37		2		0.74
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$ 0.24		2		0.48
				6%		\$ 0.18
Underground Service Hardware						
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2		\$1.80
				94%		\$ 1.69
Fixture Hardware Weighted Average Cost						\$ 5.53
MATERIAL HANDLING @ 12.22% of material cost						\$ 29.95



LED, 27W WATCH LIGHT					
<b>TOTAL MATERIAL COST</b>					<b>\$ 275.02</b>
<b>LABOR/VEHICLE</b>	<b>Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>	
INSTALL LIGHT FIXTURE					
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$	207.89
NLC Integration		\$ 32.26	1.00	\$	32.26
Engineering Office	E/O	\$ 77.56	0.24	\$	18.81
Engineering Field	E/F	\$ 93.30	0.22	\$	20.61
				\$	279.57
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>					<b>\$ 279.57</b>
<b>TOTAL COST (TECO Installation)</b>					<b>\$ 554.59</b>

912  
\$ 33.42

	<b>912</b>	
	Material only	\$ 245.08
	Mat Handling	\$ 29.95
	Labor (w/o MatHand)	\$ 279.57
	Total Installation	\$ 554.59
	Material	\$ 245.08
	Labor (incl Material Handling))	\$ 309.51
	Total Installation	\$ 554.59
2017 Rates	Material only	224.165
	Mat Handling	\$34.32
	Labor (w/o MatHand)	\$306.65
	Total Installation	\$565.14
Δ 2020 to 2017	Material only	\$ 20.91
	Labor (excl MatHand)	\$ (4.37)
	Material Handling	\$ (27.09)
		\$ (10.55)

**LED, 47W AUTOBAHN/ AUTOBAHN MICRO**

914

67%  
 100%  
 n/a  
 65%  
 32%  
 124  
 124  
 44041  
 47  
 16  
 \$ 147.07  
 n/a

4752 (3k)5110 (4k)5392 (original 4k)

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 47W AUTOBAHN, TYP R2, 3K, GR	2126409	151.29	2187	10.4%	15.81
LED, 47W AUTOBAHN, TYP R2, 4K, GR	2126410	150.05	1508	7.2%	10.81
LED, 47W AUTOBAHN, TYP R2, 3K, BLK	2126411	150.06	34	0.2%	0.24
LED, 47W AUTOBAHN, TYP R2, 4K, BLK	2126412	150.21	37	0.2%	0.27
LED, 47W AUTOBAHN, 480V, TYP R2, 4K, BLK	2126414	178.07	7	0.0%	0.06
LED, 47W, AUTOBAHN MICRO, TYP R2, 4K,GR	2129226	147.04	1122	5.4%	7.88
LED, 47W, AUTOBAHN MICRO, TYP 2, 3K, BLK	2129227	146.70	36	0.2%	0.25
LED, 47W, AUTOBAHN MICRO, TYP 2, 4K, BLK	2129228	144.57	2	0.0%	0.01
LED, 47W, AUTOBAHN MIC, 480V, T2, 4K, BK	2129229	177.18	2	0.0%	0.02
LED, 47W, AUTOBAHN MICRO, TYP R2, 3K, GR	2129230	146.18	15996	76.4%	111.71
					-
					-
					-
Weighted Average Luminaire Cost					\$ 147.07
BRACKET & ACCESSORY - Weighted Avg Cost					
BRACKET, STREET LIGHT GALV 20 IN	2005330	\$ 16.26	830	18.8%	3.05
BRACKET, STREET LIGHT GALV 4 FT	2005350	\$ 23.89	2,966	67.1%	16.03
BRACKET, STREET LIGHT GALV 6 FT	2005351	\$ 38.47	624	14.1%	5.43
					-
					-
					-
Weighted Average Bracket Cost					\$ 24.52

LED, 47W AUTOBAHN/ AUTOBAHN MICRO						
Accessories for 12 ft bracket						
anchor						-
compound						-
conduit						-
screw						-
strap						-
Weighted Average Bracket Accessories Cost						\$ -
12-foot bracket percentage						0.0%
Bracket and Accessory Weighted Average Cost						\$ 24.52
PHOTOCONTROL						
New NLC for LED						
	New NLC for LED	\$109.35		1	100.0%	109.35
Weighted Average Photocontrol Cost % PC						100%
Control Equipment Average Cost						\$ 109.35
BRACKET CABLE (Cu, Triplex, 600V 2/C, 10AWG)						
20 IN	2004166	\$ 0.59	18.8%	3		0.33
4 FT	2004166	\$ 0.59	67.1%	6		2.38
6 FT	2004166	\$ 0.59	14.1%	8		0.67
8 FT						-
10 FT						-
12 FT						-
12 FT 5 JU						-
12 FT 10 JU						-
Bracket Cable Weighted Average Cost						\$ 3.37
FIXTURE HARDWARE						
Pole Hardware wood/conc						
WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	2078006	\$ 0.17		2		0.34
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$ 1.36		2		2.72
Decal	<i>weighted avg</i>	\$ 0.60		1		0.60
						\$ 3.66
Overhead Service Hardware						
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2		1.80
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	\$ 0.37		2		0.74
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$ 0.24		2		0.48
% OH						33%
						\$ 1.00
Underground Service Hardware						
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2		\$1.80
% UG						67%
						\$ 1.21
Fixture Hardware Weighted Average Cost						\$ 5.86
MATERIAL HANDLING @ 12.22% of material cost						\$ 35.46

LED, 47W AUTOBAHN/ AUTOBAHN MICRO

<b>TOTAL MATERIAL COST</b>					
					<b>\$ 325.62</b>
<u>LABOR/VEHICLE</u>	<u>Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>	
INSTALL LIGHT FIXTURE					
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$	207.89
NLC Integration		\$ 32.26	1.00	\$	32.26
Engineering Office	E/O	\$ 77.56	0.24	\$	18.81
Engineering Field	E/F	\$ 93.30	0.22	\$	20.61
					<b>\$ 279.57</b>
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>					<b>\$ 279.57</b>
<b>TOTAL COST (TECO Installation)</b>					<b>\$ 605.19</b>

**914**  
\$ 33.75

**914**

Material only \$ 290.17  
 Mat Handling \$ 35.46  
 Labor (w/o MatHand) \$ 279.57  
 Total Installation \$ 605.19

Material \$ 290.17  
 Labor (incl Material Handling) \$ 315.02  
 Total Installation \$ 605.19

Material only 264.38  
 Mat Handling \$ 40.48  
 Labor (w/o MatHand) \$ 306.65  
 Total Installa 611.52

Δ 2020 to 2017  
 Material only \$ 25.78  
 Labor (excl MatHand) \$ (5.02)  
 Material Handling \$ (27.09)  
 \$ (6.33)

LED, 84W EVOLVE  
 921  
 1%  
 100%  
 n/a  
 1%  
 99%  
 137  
 137  
 705  
 88  
 8500  
 31  
 \$ 172.67  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 84W EVOLVE, TYP II, 3K, GR	2126309	172.55	620	87.3%	150.68
LED, 84W EVOLVE, TYP II, 4K, GR	2126380	172.82	88	12.4%	21.42
LED, 84W EVOLVE TYPE II, 3K, BK	2129767	204.27	1	0.1%	0.29
LED, 84W EVOLVE, TYP II, 4K, BK	2129769	204.27	1	0.1%	0.29
					-
					-
					-
					-
					-
					-
					-
					-
					-
					-
Weighted Average Luminaire Cost					\$ 172.67
BRACKET & ACCESSORY - Weighted Avg Cost					
BRACKET, STREET LIGHT GALV 20 IN	2005330	\$ 16.26	830	18.8%	3.05
BRACKET, STREET LIGHT GALV 4 FT	2005350	\$ 23.89	2,966	67.1%	16.03
BRACKET, STREET LIGHT GALV 6 FT	2005351	\$ 38.47	624	14.1%	5.43
					-
					-
					-
					-
					-
Weighted Average Bracket Cost					\$ 24.52

LED, 84W EVOLVE						
Accessories for 12 ft bracket						
anchor						-
compound						-
conduit						-
screw						-
strap						-
Weighted Average Bracket Accessories Cost						\$ -
12-foot bracket percentage			0.0%			\$ -
Bracket and Accessory Weighted Average Cost						\$ 24.52
PHOTOCONTROL						
New NLC for LED	New NLC for LED	\$109.35		1	100.0%	109.35
Weighted Average Photocontrol Cost					100%	\$ 109.35
Control Equipment Average Cost						\$ 109.35
BRACKET CABLE (Cu, Triplex, 600V 2/C, 10AWG)						
20 IN	2004166	\$ 0.59	18.8%	3		0.33
4 FT	2004166	\$ 0.59	67.1%	6		2.38
6 FT	2004166	\$ 0.59	14.1%	8		0.67
8 FT						-
10 FT						-
12 FT						-
12 FT 5 JU						-
12 FT 10 JU						-
Bracket Cable Weighted Average Cost						\$ 3.37
FIXTURE HARDWARE						
Pole Hardware wood/conc						
WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	2078006	\$ 0.17		2		0.34
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$ 1.36		2		2.72
Decal		<i>weighted avg</i> \$ 0.60		1		0.60
						\$ 3.66
Overhead Service Hardware						
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2		1.80
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	\$ 0.37		2		0.74
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$ 0.24		2		0.48
				99%		\$ 2.99
Underground Service Hardware						
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2		\$1.80
				1%		\$ 0.02
Fixture Hardware Weighted Average Cost						\$ 6.67
MATERIAL HANDLING @ 12.22% of material cost						\$ 38.68

LED, 84W EVOLVE					
TOTAL MATERIAL COST				\$	355.26
LABOR/VEHICLE	Crew Type	Unit Cost	# of Units	Cost	
INSTALL LIGHT FIXTURE					
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$	207.89
NLC Integration		\$ 32.26	1.00	\$	32.26
Engineering Office	E/O	\$ 77.56	0.24	\$	18.81
Engineering Field	E/F	\$ 93.30	0.22	\$	20.61
				\$	279.57
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$</b>	<b>279.57</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$</b>	<b>634.83</b>

921  
\$ 34.56

	921
Material only	\$ 316.58
Mat Handling	\$ 38.68
Labor (w/o MatHand)	\$ 279.57
Total Installation	\$ 634.83
Material	\$ 316.58
Labor (incl Material Handling)	\$ 318.25
Total Installation	\$ 634.83
Material only	284.14
Mat Handling	\$ 43.50
Labor (w/o MatHand)	\$ 306.65
Total Installatic	634.29
Δ 2020 to 2017	
Material only	\$ 32.44
Labor (excl MatHand)	\$ (4.82)
Material Handling	\$ (27.09)
	\$ 0.54

LED, 105W AUTOBAHN  
 926  
 82%  
 100%  
 n/a  
 76%  
 24%  
 130  
 130  
 11647  
 105  
 12414  
 37  
 \$ 242.14  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 105W AUTOBAHN, TYP II, 3K, GR	2126424	241.22	2522	78.0%	188.17
LED, 105W AUTOBAHN, TYP II, 4K, GR	2126425	244.17	613	19.0%	46.30
LED, 105W AUTOBAHN, TYP II, 3K, BLK	2126426	243.23	27	0.8%	2.03
LED, 105W AUTOBAHN, TYP II, 4K, BLK	2126427	243.87	46	1.4%	3.47
LED, 105W AUTOBAHN, 480V TYP II, 4K, BLK	2126428	279.88	23	0.7%	1.99
LED, 105W AUTOBAHN, TYP II, 3K, WH	2129438	287.32	1	0.0%	0.09
LED, 105W AUTOBAHN, TYP II, 4K, WH	2129439	287.32	1	0.0%	0.09
					-
					-
					-
					-
					-
Weighted Average Luminaire Cost					\$ 242.14
BRACKET & ACCESSORY - Weighted Avg Cost					
BRACKET, STREET LIGHT GALV 20 IN	2005330	\$ 16.26	830	18.8%	3.05
BRACKET, STREET LIGHT GALV 4 FT	2005350	\$ 23.89	2,966	67.1%	16.03
BRACKET, STREET LIGHT GALV 6 FT	2005351	\$ 38.47	624	14.1%	5.43
					-
					-
					-
					-
Weighted Average Bracket Cost					\$ 24.52



LED, 105W AUTOBAHN						
Accessories for 12 ft bracket						
anchor						-
compound						-
conduit						-
screw						-
strap						-
Weighted Average Bracket Accessories Cost						\$ -
12-foot bracket percentage						0.0%
Bracket and Accessory Weighted Average Cost						\$ 24.52
PHOTOCONTROL						
New NLC for LED						
	New NLC for LED	\$109.35		1	100.0%	109.35
Weighted Average Photocontrol Cost % PC						100%
Control Equipment Average Cost						\$ 109.35
BRACKET CABLE (Cu, Triplex, 600V 2/C, 10AWG)						
20 IN	2004166	\$ 0.59	18.8%	3		0.33
4 FT	2004166	\$ 0.59	67.1%	6		2.38
6 FT	2004166	\$ 0.59	14.1%	8		0.67
8 FT						-
10 FT						-
12 FT						-
12 FT 5 JU						-
12 FT 10 JU						-
Bracket Cable Weighted Average Cost						\$ 3.37
FIXTURE HARDWARE						
Pole Hardware wood/conc						
WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	2078006	\$ 0.17		2		0.34
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$ 1.36		2		2.72
Decal	<i>weighted avg</i>	\$ 0.60		1		0.60
						\$ 3.66
Overhead Service Hardware						
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2		1.80
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	\$ 0.37		2		0.74
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$ 0.24		2		0.48
						\$ 0.54
% OH						18%
Underground Service Hardware						
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2		\$1.80
						\$ 1.48
% UG						82%
Fixture Hardware Weighted Average Cost						\$ 5.68
MATERIAL HANDLING @ 12.22% of material cost						\$ 47.05

LED, 105W AUTOBAHN						
TOTAL MATERIAL COST					\$	432.11
LABOR/VEHICLE	Crew Type	Unit Cost	# of Units	Cost		
INSTALL LIGHT FIXTURE						
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$	207.89	
NLC Integration		\$ 32.26	1.00	\$	32.26	
Engineering Office	E/O	\$ 77.56	0.24	\$	18.81	
Engineering Field	E/F	\$ 93.30	0.22	\$	20.61	
				\$	279.57	
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>					<b>\$</b>	<b>279.57</b>
<b>TOTAL COST (TECO Installation)</b>					<b>\$</b>	<b>711.67</b>

926  
\$ 33.57

	<b>926</b>
Material only	\$ 385.06
Mat Handling	\$ 47.05
Labor (w/o MatHand)	\$ 279.57
Total Installation	\$ 711.67
Material	\$ 385.06
Labor (incl Material Handling))	\$ 326.62
Total Installation	\$ 711.67
Material only	346.56
Mat Handling	\$ 53.06
Labor (w/o MatHand)	\$ 306.65
Total Installa	706.27
Δ 2020 to 2017	
Material only	\$ 38.50
Labor (excl MatHand)	\$ (6.01)
Material Handling	\$ (27.09)
	\$ 5.40



LED, 133W AUTOBAHN					
Accessories for 12 ft bracket					
anchor	2000943	\$ 0.04	1	8	0.32
compound	2007288	\$ 1.68	2	1	1.68
conduit	2004465	\$ 0.88	60	8	7.04
screw	2003961	\$ 0.16	1	8	1.28
strap	2004381	\$ 0.67	300	4	2.68
Weighted Average Bracket Accessories Cost					\$ 13.00
12-foot bracket percentage				4.5%	\$ 0.58
Bracket and Accessory Weighted Average Cost					\$ 34.58
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
Weighted Average Photocontrol Cost % PC					100% \$ 109.35
Control Equipment Average Cost					\$ 109.35
BRACKET CABLE (Cu, Triplex, 600V 2/C, 10AWG)					
20 IN	2004166	\$ 0.59	17.6%	3	0.31
4 FT	2004166	\$ 0.59	63.0%	6	2.23
6 FT	2004166	\$ 0.59	13.3%	8	0.63
8 FT	2004166	\$ 0.59	0.8%	10	0.05
10 FT	2004166	\$ 0.59	0.8%	12	0.06
12 FT	2004166	\$ 0.59	0.4%	14	0.04
12 FT 5 JU	2004166	\$ 0.59	2.3%	21	0.29
12 FT 10 JU	2004166	\$ 0.59	1.7%	24	0.24
Bracket Cable Weighted Average Cost					\$ 3.84
FIXTURE HARDWARE					
Pole Hardware wood/conc					
WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	2078006	\$ 0.17		2	0.34
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$ 1.36		2	2.72
Decal	<i>weighted avg</i>	\$ 0.60		1	0.60
					\$ 3.66
Overhead Service Hardware					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2	1.80
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	\$ 0.37		2	0.74
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$ 0.24		2	0.48
				76%	\$ 2.30
Underground Service Hardware					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2	\$1.80
				24%	\$ 0.43
Fixture Hardware Weighted Average Cost					\$ 6.39
MATERIAL HANDLING @ 12.22% of material cost					\$ 51.98

LED, 133W AUTOBAHN					
<b>TOTAL MATERIAL COST</b>				<b>\$</b>	<b>477.38</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>	
INSTALL LIGHT FIXTURE					
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$	207.89
NLC Integration		\$ 32.26	1.00	\$	32.26
Engineering Office	E/O	\$ 77.56	0.24	\$	18.81
Engineering Field	E/F	\$ 93.30	0.22	\$	20.61
				\$	279.57
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$</b>	<b>279.57</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$</b>	<b>756.94</b>

932  
\$ 44.81

	<b>932</b>
Material only	\$ 425.40
Mat Handling	\$ 51.98
Labor (w/o MatHand)	\$ 279.57
Total Installation	\$ 756.94
Material	\$ 425.40
Labor (incl Material Handling)	\$ 331.55
Total Installation	\$ 756.94
Material only	384.64
Mat Handling	\$ 58.89
Labor (w/o MatHand)	\$ 306.65
Total Installa	750.19
Δ 2020 to 2017	
Material only	\$ 40.76
Labor (excl MatHand)	\$ (6.91)
Material Handling	\$ (27.09)
	\$ 6.76

LED, 145W AUTOBAHN  
 937  
 69%  
 100%  
 n/a  
 99%  
 54%  
 169  
 169  
 8751  
 145  
 16251  
 51  
 \$ 242.44  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 145W AUTOBAHN, TYP II, 3K, GR	2126431	239.29	1960	53.0%	126.93
LED, 145W AUTOBAHN, TYP II, 4K, GR	2126432	244.73	861	23.3%	57.03
LED, 145W AUTOBAHN, TYP II, 3K, BLK	2126433	235.94	93	2.5%	5.94
LED, 145W AUTOBAHN, TYP II, 4K, BLK	2126434	234.55	481	13.0%	30.53
LED, 145W AUTOBAHN, 480V, TY II, 4K, BLK	2126435	270.49	174	4.7%	12.74
LED, 145W AUTOBAHN, TYP IV, 4K, BLK	2127811	273.57	61	1.7%	4.52
LED, 145W AUTOBAHN, 480V, TY IV, 4K, BLK	2127852	270.59	65	1.8%	4.76
					-
					-
					-
					-
					-
Weighted Average Luminaire Cost					\$ 242.44
BRACKET & ACCESSORY - Weighted Avg Cost					
BRACKET, STREET LIGHT GALV 20 IN	2005330	\$ 16.26	830	17.6%	2.87
BRACKET, STREET LIGHT GALV 4 FT	2005350	\$ 23.89	2,966	63.0%	15.05
BRACKET, STREET LIGHT GALV 6 FT	2005351	\$ 38.47	624	13.3%	5.10
BRACKET, STREET LIGHT GALV 8 FT W/SUPPOR	2005354	\$ 74.09	40	0.8%	0.63
BRACKET, STREET LIGHT GALV 10 FT W/SUPPO	2005356	\$ 121.00	37	0.8%	0.95
BRACKET, STREET LIGHT GALV. 12 FT.	2005358	\$ 162.30	21	0.4%	0.72
BRACKET, STREETLIGHT, 12' GALV STEEL, 5'	2005361	\$ 241.59	109	2.3%	5.59
BRACKET, STREET LIGHT, 12' GALV STEEL, 1	2005359	\$ 181.19	80	1.7%	3.08
Weighted Average Bracket Cost					\$ 34.00

LED, 145W AUTOBAHN					
Accessories for 12 ft bracket					
anchor	2000943	\$ 0.04	1	8	0.32
compound	2007288	\$ 1.68	2	1	1.68
conduit	2004465	\$ 0.88	60	8	7.04
screw	2003961	\$ 0.16	1	8	1.28
strap	2004381	\$ 0.67	300	4	2.68
Weighted Average Bracket Accessories Cost					\$ 13.00
12-foot bracket percentage			4.5%		\$ 0.58
Bracket and Accessory Weighted Average Cost					\$ 34.58
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
Weighted Average Photocontrol Cost % PC					100%
Control Equipment Average Cost					\$ 109.35
BRACKET CABLE (Cu, Triplex, 600V 2/C, 10AWG)					
20 IN	2004166	\$ 0.59	17.6%	3	0.31
4 FT	2004166	\$ 0.59	63.0%	6	2.23
6 FT	2004166	\$ 0.59	13.3%	8	0.63
8 FT	2004166	\$ 0.59	0.8%	10	0.05
10 FT	2004166	\$ 0.59	0.8%	12	0.06
12 FT	2004166	\$ 0.59	0.4%	14	0.04
12 FT 5 JU	2004166	\$ 0.59	2.3%	21	0.29
12 FT 10 JU	2004166	\$ 0.59	1.7%	24	0.24
Bracket Cable Weighted Average Cost					\$ 3.84
FIXTURE HARDWARE					
Pole Hardware wood/conc					
WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	2078006	\$ 0.17		2	0.34
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$ 1.36		2	2.72
Decal	weighted avg	\$ 0.60		1	0.60
					\$ 3.66
Overhead Service Hardware					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2	1.80
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	\$ 0.37		2	0.74
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$ 0.24		2	0.48
% OH				31%	\$ 0.94
Underground Service Hardware					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2	\$1.80
% UG				69%	\$ 1.24
Fixture Hardware Weighted Average Cost					\$ 5.84
MATERIAL HANDLING @ 12.22% of material cost					\$ 48.39

LED, 145W AUTOBAHN				
<b>TOTAL MATERIAL COST</b>				
				<b>\$ 444.44</b>
<u>LABOR/VEHICLE</u>	<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL LIGHT FIXTURE				
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$ 207.89
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				<b>\$ 279.57</b>
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 279.57</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 724.01</b>

**937**  
\$ 44.26

	<b>937</b>
Material only	\$ 396.05
Mat Handling	\$ 48.39
Labor (w/o MatHand)	\$ 279.57
Total Installation	\$ 724.01
Material	\$ 396.05
Labor (incl Material Handling))	\$ 327.96
Total Installation	\$ 724.01
Material only	358.15
Mat Handling	\$ 54.83
Labor (w/o MatHand)	\$ 306.65
Total Installa	719.64
Δ 2020 to 2017	
Material only	\$ 37.90
Labor (excl MatHand)	\$ (6.44)
Material Handling	\$ (27.09)
	\$ 4.37



**LED, 182W ARCHEON/VERDEON**

941  
 71%  
 100%  
 n/a  
 61%  
 36%  
 169  
 169  
 7598  
 182  
 22233  
 64  
 \$ 327.74  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 182W VERDEON, TYP IV, 3K, GR	2126386	\$ 335.89	493	10.9%	36.50
LED, 182W VERDEON, TYP IV, 4K, GR	2126387	\$ 336.64	1,161	25.6%	86.14
LED, 182W VERDEON, TYP IV, 4K, BLK	2127440	\$ 328.67	100	2.2%	7.24
LED, 182w VERDEON, 480v,TYP IV, 4K, GR	2127442	\$ 332.14	195	4.3%	14.28
LED, 182w VERDEON, 480v,TYP IV, 4K, BLK	2127443	\$ 324.53	24	0.5%	1.72
LED, 182W ARCHEON, TYP IV, 4K, GR	2130400	\$ 320.96	40	0.9%	2.83
LED, 182W ARCHEON, TYP IV, 3K, GR	2130401	\$ 321.92	2,265	49.9%	160.71
LED, 182W ARCHEON, TYP IV, 4K, BLK	2130402	\$ 311.60	1	0.0%	0.07
LED, 182W ARCHEON, TYP IV, 3K, BLK	2130403	\$ 321.08	158	3.5%	11.18
LED, 182W ARCHEON, 480V,TYP IV, 4K, GR	2130404	\$ 311.60	2	0.0%	0.14
LED, 182W ARCHEON, 480V,TYP IV, 3K, GR	2130405	\$ 320.95	86	1.9%	6.08
LED, 182W ARCHEON, 480V,TYP IV, 4K, BLK	2130406	\$ 311.60	2	0.0%	0.14
LED, 182W ARCHEON, 480V,TYP IV, 3K, BLK	2130407	\$ 320.95	10	0.2%	0.71
Weighted Average Luminaire Cost					\$ 327.74
BRACKET & ACCESSORY - Weighted Avg Cost					
BRACKET, STREET LIGHT GALV 20 IN	2005330	\$ 16.26	830	17.6%	2.87
BRACKET, STREET LIGHT GALV 4 FT	2005350	\$ 23.89	2,966	63.0%	15.05
BRACKET, STREET LIGHT GALV 6 FT	2005351	\$ 38.47	624	13.3%	5.10
BRACKET, STREET LIGHT GALV 8 FT W/SUPPOR	2005354	\$ 74.09	40	0.8%	0.63
BRACKET, STREET LIGHT GALV 10 FT W/SUPPO	2005356	\$ 121.00	37	0.8%	0.95
BRACKET, STREET LIGHT GALV. 12 FT.	2005358	\$ 162.30	21	0.4%	0.72
BRACKET, STREETLIGHT, 12' GALV STEEL, 5'	2005361	\$ 241.59	109	2.3%	5.59
BRACKET, STREET LIGHT, 12' GALV STEEL, 1	2005359	\$ 181.19	80	1.7%	3.08
Weighted Average Bracket Cost					\$ 34.00

LED, 182W ARCHEON/VERDEON						
Accessories for 12 ft bracket						
anchor	2000943	\$	0.04	1	8	0.32
compound	2007288	\$	1.68	2	1	1.68
conduit	2004465	\$	0.88	60	8	7.04
screw	2003961	\$	0.16	1	8	1.28
strap	2004381	\$	0.67	300	4	2.68
Weighted Average Bracket Accessories Cost						\$ 13.00
12-foot bracket percentage					4.5%	\$ 0.58
Bracket and Accessory Weighted Average Cost						\$ 34.58
PHOTOCONTROL						
New NLC for LED	New NLC for LED	\$109.35		1	100.0%	109.35
Weighted Average Photocontrol Cost % PC						100% \$ 109.35
Control Equipment Average Cost						\$ 109.35
BRACKET CABLE (Cu, Triplex, 600V 2/C, 10AWG)						
20 IN	2004166	\$	0.59	17.6%	3	0.31
4 FT	2004166	\$	0.59	63.0%	6	2.23
6 FT	2004166	\$	0.59	13.3%	8	0.63
8 FT	2004166	\$	0.59	0.8%	10	0.05
10 FT	2004166	\$	0.59	0.8%	12	0.06
12 FT	2004166	\$	0.59	0.4%	14	0.04
12 FT 5 JU	2004166	\$	0.59	2.3%	21	0.29
12 FT 10 JU	2004166	\$	0.59	1.7%	24	0.24
Bracket Cable Weighted Average Cost						\$ 3.84
FIXTURE HARDWARE						
Pole Hardware wood/conc						
WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	2078006	\$	0.17		2	0.34
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$	1.36		2	2.72
Decal		\$	0.60		1	0.60
						\$ 3.66
Overhead Service Hardware						
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90		2	1.80
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	\$	0.37		2	0.74
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$	0.24		2	0.48
					29%	\$ 0.88
Underground Service Hardware						
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90		2	\$1.80
					71%	\$ 1.28
Fixture Hardware Weighted Average Cost						\$ 5.81
MATERIAL HANDLING @ 12.22% of material cost						\$ 58.81

LED, 182W ARCHEON/VERDEON				
<b>TOTAL MATERIAL COST</b>				<b>\$ 540.13</b>
<u>LABOR/VEHICLE</u>	<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL LIGHT FIXTURE				
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$ 207.89
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				<b>\$ 279.57</b>
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 279.57</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 819.70</b>

941  
\$ 44.23

	<b>941</b>
Material only	\$ 481.32
Mat Handling	\$ 58.81
Labor (w/o MatHand)	\$ 279.57
Total Installation	\$ 819.70
Material	\$ 481.32
Labor (incl Material Handling))	\$ 338.38
Total Installation	\$ 819.70
Material only	440.33
Mat Handling	\$ 67.41
Labor (w/o MatHand)	\$ 306.65
Total Installa	814.40
Δ 2020 to 2017	
Material only	\$ 40.99
Labor (excl MatHand)	\$ (8.60)
Material Handling	\$ (27.09)
	\$ 5.30

LED, 225W GALLEON  
 956  
 76%  
 100%  
 n/a  
 21%  
 15%  
 150  
 185  
 2891  
 225  
 23563  
 79  
 \$ 668.85  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 225W GALLEON, TYP II, 3K, GR	2126388	\$ 664.70	87	49.4%	328.57
LED, 225W GALLEON, TYP II, 4K, GR	2126389	\$ 674.49	68	38.6%	260.60
LED, 225W GALLEON, TYP II, 4K, BLK	2126390	\$ 665.96	17	9.7%	64.33
LED, 225W GALLEON, 480V, TYP II, 4K, BLK	2126391	\$ 675.73	4	2.3%	15.36
					-
					-
					-
					-
					-
					-
					-
					-
Weighted Average Luminaire Cost					\$ 668.85
BRACKET & ACCESSORY - Weighted Avg Cost					
BRACKET, STREET LIGHT GALV 20 IN	2005330	\$ 16.26	830	17.6%	2.87
BRACKET, STREET LIGHT GALV 4 FT	2005350	\$ 23.89	2,966	63.0%	15.05
BRACKET, STREET LIGHT GALV 6 FT	2005351	\$ 38.47	624	13.3%	5.10
BRACKET, STREET LIGHT GALV 8 FT W/SUPPOR	2005354	\$ 74.09	40	0.8%	0.63
BRACKET, STREET LIGHT GALV 10 FT W/SUPPO	2005356	\$ 121.00	37	0.8%	0.95
BRACKET, STREET LIGHT GALV. 12 FT.	2005358	\$ 162.30	21	0.4%	0.72
BRACKET, STREETLIGHT, 12' GALV STEEL, 5'	2005361	\$ 241.59	109	2.3%	5.59
BRACKET, STREET LIGHT, 12' GALV STEEL, 1	2005359	\$ 181.19	80	1.7%	3.08
Weighted Average Bracket Cost					\$ 34.00

LED, 225W GALLEON					
Accessories for 12 ft bracket					
anchor	2000943	\$ 0.04	1	8	0.32
compound	2007288	\$ 1.68	2	1	1.68
conduit	2004465	\$ 0.88	60	8	7.04
screw	2003961	\$ 0.16	1	8	1.28
strap	2004381	\$ 0.67	300	4	2.68
Weighted Average Bracket Accessories Cost					\$ 13.00
12-foot bracket percentage				4.5%	\$ 0.58
Bracket and Accessory Weighted Average Cost					\$ 34.58
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
Weighted Average Photocontrol Cost % PC					100% \$ 109.35
Control Equipment Average Cost					\$ 109.35
BRACKET CABLE (Cu, Triplex, 600V 2/C, 10AWG)					
20 IN	2004166	\$ 0.59	17.6%	3	0.31
4 FT	2004166	\$ 0.59	63.0%	6	2.23
6 FT	2004166	\$ 0.59	13.3%	8	0.63
8 FT	2004166	\$ 0.59	0.8%	10	0.05
10 FT	2004166	\$ 0.59	0.8%	12	0.06
12 FT	2004166	\$ 0.59	0.4%	14	0.04
12 FT 5 JU	2004166	\$ 0.59	2.3%	21	0.29
12 FT 10 JU	2004166	\$ 0.59	1.7%	24	0.24
Bracket Cable Weighted Average Cost					\$ 3.84
FIXTURE HARDWARE					
Pole Hardware wood/conc					
WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	2078006	\$ 0.17		2	0.34
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$ 1.36		2	2.72
Decal	<i>weighted avg</i>	\$ 0.60		1	0.60
					\$ 3.66
Overhead Service Hardware					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2	1.80
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	\$ 0.37		2	0.74
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$ 0.24		2	0.48
				24%	\$ 0.72
Underground Service Hardware					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2	\$1.80
				76%	\$ 1.37
Fixture Hardware Weighted Average Cost					\$ 5.75
MATERIAL HANDLING @ 12.22% of material cost					\$ 100.48

LED, 225W GALLEON					
<b>TOTAL MATERIAL COST</b>				<b>\$</b>	<b>922.86</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>	
INSTALL LIGHT FIXTURE					
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$	207.89
NLC Integration		\$ 32.26	1.00	\$	32.26
Engineering Office	E/O	\$ 77.56	0.24	\$	18.81
Engineering Field	E/F	\$ 93.30	0.22	\$	20.61
				\$	279.57
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$</b>	<b>279.57</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$</b>	<b>1,202.43</b>

956  
\$ 44.17

	956
Material only	\$ 822.38
Mat Handling	\$ 100.48
Labor (w/o MatHand)	\$ 279.57
<b>Total Installation</b>	<b>\$ 1,202.43</b>
Material	\$ 822.38
Labor (incl Material Handling)	\$ 380.05
<b>Total Installation</b>	<b>\$ 1,202.43</b>
Material only	734.51
Mat Handling	\$ 112.45
Labor (w/o MatHand)	\$ 306.65
<b>Total Installa</b>	<b>1153.62</b>
Δ 2020 to 2017	
Material only	\$ 87.87
Labor (excl MatHand)	\$ (11.97)
Material Handling	\$ (27.09)
	\$ 48.81



LED, 333W GALLEON					
Accessories for 12 ft bracket					
anchor	2000943	\$ 0.04	1	8	0.32
compound	2007288	\$ 1.68	2	1	1.68
conduit	2004465	\$ 0.88	60	8	7.04
screw	2003961	\$ 0.16	1	8	1.28
strap	2004381	\$ 0.67	300	4	2.68
Weighted Average Bracket Accessories Cost					\$ 13.00
12-foot bracket percentage				4.5%	\$ 0.58
Bracket and Accessory Weighted Average Cost					\$ 34.58
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
Weighted Average Photocontrol Cost % PC					100% \$ 109.35
Control Equipment Average Cost					\$ 109.35
BRACKET CABLE (Cu, Triplex, 600V 2/C, 10AWG)					
20 IN	2004166	\$ 0.59	17.6%	3	0.31
4 FT	2004166	\$ 0.59	63.0%	6	2.23
6 FT	2004166	\$ 0.59	13.3%	8	0.63
8 FT	2004166	\$ 0.59	0.8%	10	0.05
10 FT	2004166	\$ 0.59	0.8%	12	0.06
12 FT	2004166	\$ 0.59	0.4%	14	0.04
12 FT 5 JU	2004166	\$ 0.59	2.3%	21	0.29
12 FT 10 JU	2004166	\$ 0.59	1.7%	24	0.24
Bracket Cable Weighted Average Cost					\$ 3.84
FIXTURE HARDWARE					
Pole Hardware wood/conc					
WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	2078006	\$ 0.17		2	0.34
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$ 1.36		2	2.72
Decal	weighted avg	\$ 0.60		1	0.60
					\$ 3.66
Overhead Service Hardware					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2	1.80
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	\$ 0.37		2	0.74
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$ 0.24		2	0.48
				13%	\$ 0.39
Underground Service Hardware					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$ 0.90		2	\$1.80
				87%	\$ 1.57
Fixture Hardware Weighted Average Cost					\$ 5.62
MATERIAL HANDLING @ 12.22% of material cost					\$ 125.53



LED, 333W GALLEON					
TOTAL MATERIAL COST				\$	1,152.84
LABOR/VEHICLE	Crew Type	Unit Cost	# of Units	Cost	
INSTALL LIGHT FIXTURE					
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$	207.89
NLC Integration		\$ 32.26	1.00	\$	32.26
Engineering Office	E/O	\$ 77.56	0.24	\$	18.81
Engineering Field	E/F	\$ 93.30	0.22	\$	20.61
				\$	279.57
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$</b>	<b>279.57</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$</b>	<b>1,432.41</b>

958  
\$ 44.04

	958
Material only	\$ 1,027.32
Mat Handling	\$ 125.53
Labor (w/o MatHand)	\$ 279.57
Total Installation	\$ 1,432.41
Material	\$ 1,027.32
Labor (incl Material Handling)	\$ 405.09
Total Installation	\$ 1,432.41
Material only	909.91
Mat Handling	\$ 139.31
Labor (w/o MatHand)	\$ 306.65
Total Installa	1355.87
Δ 2020 to 2017	
Material only	\$ 117.41
Labor (excl MatHand)	\$ (13.78)
Material Handling	\$ (27.09)
	\$ 76.54



LED, 143W USSL EATON					
OVERHEAD SERVICE HARDWARE					
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 DIE2 IN.	2003523	\$	0.37	2	0.74
Overhead wood/concrete					\$ 0.74
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90	2	1.80
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$	0.24	2	0.48
Overhead wood		%Wood		9%	0.21
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR AL #4 STR 6-	2077844	\$	0.34	2	0.68
concrete		%Concrete		56%	0.38
Overhead Service Hardware		% OH		95%	1.26
UNDERGROUND SERVICE HARDWARE					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90	2	1.80
Underground Service Hardware		%Wood		9%	0.16
		% UG		14%	\$ 0.02
Fixture Hardware Weighted Average Cost					\$ 6.11
MATERIAL HANDLING @ 12.22% of material cost					\$ 74.92
<b>TOTAL MATERIAL COST</b>					<b>\$ 688.12</b>

LED, 143W USSL EATON				
LABOR/VEHICLE	Crew Type	Unit Cost	# of Units	Cost
INSTALL LIGHT FIXTURE				
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$ 207.89
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				\$ 279.57
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 279.57</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 967.68</b>

\$398.41
\$353.74
\$752.15

a. & Hardware \$ 151.70

935	
Material only	\$ 613.19
Mat Handling	\$ 74.92
Labor (w/o MatHand)	\$ 279.57
Total Installation	\$ 967.68

2017 Rates	Material only	\$ 446.94
	Mat Handling	\$ 68.43
	Labor (w/o MatHand)	\$ 306.65
	Total Installation	\$ 822.02

Δ 2020 to 2017	Material only	\$ 166.25
	Labor (excl MatHand)	\$ 6.50
	Material Handling	\$ (27.09)
		\$ 145.66



LED, 247W VERDEON					
OVERHEAD SERVICE HARDWARE					
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 I	2003523	\$	0.37	2	0.74
Overhead wood/concrete					\$ 0.74
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90	2	1.80
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$	0.24	2	0.48
Overhead wood			%Wood	15%	0.34
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR	2077844	\$	0.34	2	0.68
concrete			%Concrete	83%	0.56
Overhead Service Hardware			% OH	95%	1.56
UNDERGROUND SERVICE HARDWARE					
wood					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90	2	1.80
Underground Service Hardware			%Wood	15%	0.27
			% UG	21%	\$ 0.06
Fixture Hardware Weighted Average Cost					\$ 6.58
MATERIAL HANDLING @ 12.22% of material cost					\$ 76.25
<b>TOTAL MATERIAL COST</b>					<b>\$ 700.30</b>

LED, 247W VERDEON				
LABOR/VEHICLE	Crew Type	Unit Cost	# of Units	Cost
INSTALL LIGHT FIXTURE				
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$ 207.89
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				<u>\$ 279.57</u>
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 279.57</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 979.87</b>

\$398.41
\$353.74
\$752.15
945
\$ 152.18

	945
Material only	\$ 624.05
Mat Handling	\$ 76.25
Labor (w/o MatHand)	\$ 279.57
Total Installation	\$ 979.87

Material only	\$ 519.39
Mat Handling	\$ 79.52
Labor (w/o MatHand)	\$ 306.65
Total Installation	\$ 905.57

Δ 2020 to 2017	
Material only	\$ 104.66
Labor (excl MatHand)	\$ (3.27)
Material Handling	\$ (27.09)
	<u>\$ 74.31</u>

LED, 330W EVOLVE/ 327W/ 305W  
 947  
 48%  
 100%  
 n/a  
 27%  
 71%  
 124  
 124  
 7623  
 330  
 33600  
 116  
 \$ 881.49  
 n/a

MATERIAL	Stock #	Unit Cost	# of Units and/or %	Cost
<b>LUMINAIRE</b>				
LED, 330W EVOLVE TYPE IV, 3K, GR	2126381	876.87	63 7.5%	65.77
LED, 330W EVOLVE TYPE IV, 4K, GR	2126382	876.10	301 35.8%	313.94
LED, 330W EVOLVE TYP IV, 480V, 4K, GR	2126383	914.90	44 5.2%	47.92
LED, 330W EVOLVE, TYP IV, 3K, BLK	2127288	866.75	11 1.3%	11.35
LED, 330W EVOLVE, TYP IV, 4K, BLK	2127289	872.36	48 5.7%	49.85
LED, 330W EVOLVE, TYP IV, 480V, 4K, BLK	2127290	906.56	11 1.3%	11.87
LED, 327W EVOLVE T IV, 4K, BLK, INT, SLI	2129387	877.14	16 1.9%	16.71
LED, 305W EVOLVE TYPE IV, 3K, GR	2130030	877.07	213 25.4%	222.40
LED, 305W Evolve Type IV, 4k, GR	2130031	947.01	39 4.6%	43.97
LED, 305W Evolve Type IV, 480v, 4k GR	2130032	898.46	7 0.8%	7.49
LED, 305W Evolve Type IV, 3k, BLK	2130033	870.55	83 9.9%	86.02
LED, 305W Evolve Type IV, 4k, BLK	2130034	869.60	2 0.2%	2.07
LED, 305W Evolve Type IV, 480v, 4k, BLK	2130035	898.46	2 0.2%	2.14
Weighted Average Luminaire Cost				\$ 881.49
<b>BRACKET &amp; ACCESSORY - Weighted Avg Cost</b>				
BRACKET SHOEBOX SINGLE MOUNT Various	VariousSB_1	\$ 65.31	155 79.5%	51.91
BRACKET SHOEBOX DUAL MOUNT Various	VariousSB_2	\$ 132.85	17 8.7%	11.58
BRACKET SHOEBOX TRIPLE MOUNT Various	VariousSB_3	\$ 202.30	6 3.1%	6.22
BRACKET SHOEBOX QUAD MOUNT Various	VariousSB_4	\$ 360.95	6 3.1%	11.11
BRACKET SHOEBOX TWIN PARALLEL MOUNT Various	VariousSB_P	\$ 368.55	11 5.6%	20.79
Bracket and Accessory Weighted Average Cost				\$ 101.62
<b>PHOTOCONTROL</b>				
New NLC for LED	New NLC for LED	\$109.35	1 100.0%	109.35
Weighted Average Photocontrol Cost % PC				\$ 109.35
<b>BRACKET CABLE (Cu, Triplex, 600V 2/C, 10AWG)</b>				
BRACKET SHOEBOX SINGLE MOUNT Various	VariousSB_1	\$ 65.31	79.5% 79.5%	41.26
BRACKET SHOEBOX DUAL MOUNT Various	VariousSB_2	\$ 132.85	8.7% 8.7%	1.01
BRACKET SHOEBOX TRIPLE MOUNT Various	VariousSB_3	\$ 202.30	3.1% 3.1%	0.19
BRACKET SHOEBOX QUAD MOUNT Various	VariousSB_4	\$ 360.95	3.1% 3.1%	0.34
BRACKET SHOEBOX TWIN PARALLEL MOUNT Various	VariousSB_P	\$ 368.55	5.6% 5.6%	1.17
Bracket Cable Weighted Average Cost				\$ 43.98
<b>FIXTURE HARDWARE</b>				
<b>OVERHEAD &amp; UNDERGROUND SERVICE HARDWARE</b>				
WASHER, FLAT, 2-1/4 X 2-1/4 X 3/16 WITH 13/16" HOLE	2078008	\$ 0.28	2	0.56
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$ 1.36	2	2.72
Decal	weighted avg	\$ 0.60	1	0.60
Overhead & Underground Service Hardware				\$ 3.88



LED, 330W EVOLVE/ 327W/ 305W					
OVERHEAD SERVICE HARDWARE					
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 I	2003523	\$	0.37	2	0.74
Overhead wood/concrete					\$ 0.74
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90	2	1.80
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$	0.24	2	0.48
Overhead wood			%Wood	27%	0.62
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR	2077844	\$	0.34	2	0.68
concrete			%Concrete	71%	0.48
Overhead Service Hardware			% OH	95%	1.75
UNDERGROUND SERVICE HARDWARE					
wood					
Bolt, Machine GALV 5/8x8	9233450	\$	0.96	2	1.92
			%Wood	27%	0.52
Underground Service Hardware			% UG	48%	\$ 0.25
Fixture Hardware Weighted Average Cost					\$ 7.23
MATERIAL HANDLING @ 12.22% of material cost					\$ 139.74
<b>TOTAL MATERIAL COST</b>					<b>\$ 1,283.41</b>

LED, 330W EVOLVE/ 327W/ 305W				
LABOR/VEHICLE	Crew Type	Unit Cost	# of Units	Cost
INSTALL LIGHT FIXTURE				
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.25	\$ 207.89
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				<u>\$ 279.57</u>
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 279.57</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 1,562.97</b>

\$398.41
\$353.74
\$752.15
947
\$ 152.83

	947
Material only	\$ 1,143.66
Mat Handling	\$ 139.74
Labor (w/o MatHand)	\$ 279.57
Total Installation	\$ 1,562.97

Material only	\$ 955.36
Mat Handling	\$ 146.27
Labor (w/o MatHand)	\$ 306.65
Total Installation	\$ 1,408.28

Δ 2020 to 2017	
Material only	\$ 188.30
Labor (excl MatHand)	\$ (6.52)
Material Handling	\$ (27.09)
	<u>\$ 154.69</u>

<b>LED, 199W ACP FLOOD 6X6</b>					
	951				
	92%				
	100%				
	n/a				
	86%				
	14%				
	129				
	129				
	3105				
	199				
	23067				
	70				
	\$ 568.25				
	n/a				
<b>MATERIAL</b>					
LUMINAIRE	Stock #	Unit Cost	# of Units and/or %		Cost
LED, 199W ACP FLOOD 6X6 W, TENON, 3K, GR	2126436	\$ 563.04	373	51.4%	289.67
LED, 199W ACP FLOOD 6X6 W, TENON, 4K, GR	2126437	\$ 573.78	352	48.6%	278.58
					-
					-
Weighted Average Luminaire Cost					<b>\$ 568.25</b>
BRACKET & ACCESSORY - Weighted Avg Cost					
BRACKET, STREETLIGHT, GALVANIZED, 9 1/2"	2005373	\$ 47.26	525	99.2%	46.90
BRACKET, DUAL CUTOFF ARRESTER & POTHEAD DWG. Q5443	2003691	\$ 60.87	2	0.4%	0.23
BRACKET, TRIMOUNT, ARSTR & POTHEAD, TEMS 2.02 DWG.5443	2003692	\$ 64.41	2	0.4%	0.24
					-
					-
					-
Bracket and Accessory Weighted Average Cost					<b>\$ 47.38</b>
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
					-
Weighted Average Photocontrol Cost % PC					<b>\$ 109.35</b>
Control Equipment Average Cost					<b>\$ 109.35</b>

LED, 199W ACP FLOOD 6X6						
BRACKET CABLE (Cu, Triplex, 600V 2/G, 10AWG)						
BRACKET, STREETLIGHT, GALVANIZED, 9 1/2"	2004166	\$	0.59	99.2%	2	1.17
BRACKET, DUAL CUTOFF ARRESTER & POTHEAD DWG. Q&E	2004166	\$	0.59	0.4%	3	0.01
BRACKET, TRIMOUNT, ARSTR & POTHEAD, TEMS 2.02 DWG	2004166	\$	0.59	0.4%	3	0.01
						-
						-
						-
Bracket Cable Weighted Average Cost						\$ 1.18
FIXTURE HARDWARE						
OVERHEAD & UNDERGROUND SERVICE HARDWARE						
WASHER, FLAT, 2-1/4 X 2-1/4 X 3/16 WITH 13/16" HOLE DIA	2078008	\$	0.28		2	0.56
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$	1.36		2	2.72
Decal			0.60		1	0.60
Overhead & Underground Service Hardware						\$ 3.88
OVERHEAD SERVICE HARDWARE						
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 DIE2 IN.	2003523	\$	0.37		2	0.74
Overhead wood/concrete						\$ 0.74
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90		2	1.80
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$	0.24		2	0.48
Overhead wood				%Wood	86%	1.96
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR AL #4 STR	2077844	\$	0.34		2	0.68
concrete				%Concrete	14%	0.10
Overhead Service Hardware						100% 2.79

LED, 199W ACP FLOOD 6X6					
UNDERGROUND SERVICE HARDWARE					
wood					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90	2	1.80
wood	%Wood			86%	1.55
Underground Service Hardware	%UG			92%	\$ 1.42
Fixture Hardware Weighted Average Cost					\$ 10.79
MATERIAL HANDLING @ 12.22% of material cost					\$ 90.05
<b>TOTAL MATERIAL COST</b>					<b>\$ 827.01</b>
<b>LABOR/VEHICLE</b>					
	<u>Crew Type</u>	<u>Unit Cost</u>		<u># of Units</u>	<u>Cost</u>
INSTALL LIGHT FIXTURE					
Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31		1.25	\$ 207.89
NLC Integration		\$ 32.26		1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56		0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30		0.22	\$ 20.61
					\$ 279.57
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>					<b>\$ 279.57</b>
<b>TOTAL COST (TECO Installation)</b>					<b>\$ 1,106.57</b>

\$313.40
\$332.34
\$645.74

LED, 199W ACP FLOOD 6X6

\$ 951  
59.36

---

		<b>951</b>
		736.96
		90.05
		279.57
		1,106.57
		736.96
		369.61
		1,106.57
2017 Rates		650.74
		99.63
		306.65
		1,057.02
Δ 2020 to 2017		86.22
		(9.58)
		(27.09)
		49.55

LED, 252W FLOOD, 6X6  
 953  
 78%  
 100%  
 n/a  
 70%  
 30%  
 150  
 125  
 2354  
 255  
 33113  
 89  
 \$ 775.48  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 255W FLOOD 6X6 W, 3K GR	2126394	\$ 728.88	5	1.4%	9.90
LED, 255W FLOOD 6X6 W ,4K GR	2126395	\$ 776.20	355	96.5%	748.78
LED, 252W FLOOD, 6X6 W, 480V, 4K, GR	2127555	\$ 772.67	8	2.2%	16.80
Weighted Average Luminaire Cost					\$ 775.48
BRACKET & ACCESSORY - Weighted Avg Cost					
BRACKET, STREETLIGHT, GALVANIZED, 9 1/2"	2005373	\$ 47.26	525	73.6%	34.80
BRACKET, DUAL CUTOUT ARRESTER & POTHEAD DW	2003691	\$ 60.87	2	0.3%	0.17
BRACKET, TRIMOUNT, ARSTR & POTHEAD, TEMS 2.02	2003692	\$ 64.41	2	0.3%	0.18
BRACKET SHOEBOX SINGLE MOUNT Various	VariousSB_1	\$ 65.31	155	21.7%	14.20
BRACKET SHOEBOX DUAL MOUNT Various	VariousSB_2	\$ 132.85	17	2.4%	3.17
BRACKET SHOEBOX TRIPLE MOUNT Various	VariousSB_3	\$ 202.30	6	0.8%	1.70
BRACKET SHOEBOX QUAD MOUNT Various	VariousSB_4	\$ 360.95	6	0.8%	3.04
Bracket and Accessory Weighted Average Cost					\$ 57.26
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
Weighted Average Photocontrol Cost % PC					\$ 109.35
Control Equipment Average Cost					\$ 109.35

LED, 252W FLOOD, 6X6						
BRACKET CABLE (Cu, Triplex, 600V 2/G, 10AWG)						
BRACKET, STREETLIGHT, GALVANIZED, 9 1/2"	2004166	\$	0.59	73.6%	2	0.87
BRACKET, DUAL CUTOUT ARRESTER & POTHEAD	2004166	\$	0.59	0.3%	3	0.00
BRACKET, TRIMOUNT, ARSTR & POTHEAD, TEMS	2004166	\$	0.59	0.3%	3	0.00
BRACKET SHOEBOX SINGLE MOUNT Various	VariousSB_1	\$	65.31	21.7%	2	28.40
BRACKET SHOEBOX DUAL MOUNT Various	VariousSB_2	\$	132.85	2.4%	3	9.50
BRACKET SHOEBOX TRIPLE MOUNT Various	VariousSB_3	\$	202.30	0.8%	6	10.21
BRACKET SHOEBOX QUAD MOUNT Various	VariousSB_4	\$	360.95	0.8%	7	21.26
Bracket Cable Weighted Average Cost						\$ 70.25
FIXTURE HARDWARE						
OVERHEAD & UNDERGROUND SERVICE HARDWARE						
WASHER, FLAT, 2-1/4 X 2-1/4 X 3/16 WITH 13/16" HOLE	2078008	\$	0.28		2	0.56
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	2077783	\$	1.36		2	2.72
Decal			weighted avg		1	0.60
Overhead & Underground Service Hardware						\$ 3.88
OVERHEAD SERVICE HARDWARE						
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 I	2003523	\$	0.37		2	0.74
Overhead wood/concrete						\$ 0.74
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90		2	1.80
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2077835	\$	0.24		2	0.48
Overhead wood %Wood						70% 1.60
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR	2077844	\$	0.34		2	0.68
concrete %Concrete						30% 0.20
Overhead Service Hardware %OH						100% 2.53



LED, 252W FLOOD, 6X6					
UNDERGROUND SERVICE HARDWARE					
wood					
BOLT, MACHINE 5/8" X 8", GALV.	2077753	\$	0.90	2	1.80
wood	%Wood			70%	1.26
Underground Service Hardware	%UG			78%	\$ 0.98
Fixture Hardware Weighted Average Cost					\$ 9.73
MATERIAL HANDLING @ 12.22% of material cost					\$ 124.88
<b>TOTAL MATERIAL COST</b>					<b>\$ 1,146.96</b>
<b>LABOR/VEHICLE</b>					
	<b>Crew Type</b>		<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL LIGHT FIXTURE					
Fixture Installation/ TECO Labor&Vehicle	LN2	\$	166.31	1.25	\$ 207.89
NLC Integration		\$	32.26	1.00	\$ 32.26
Engineering Office	E/O	\$	77.56	0.24	\$ 18.81
Engineering Field	E/F	\$	93.30	0.22	\$ 20.61
					\$ 279.57
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>					<b>\$ 279.57</b>
<b>TOTAL COST (TECO Installation)</b>					<b>\$ 1,426.52</b>

\$465.00
\$428.80
\$893.80

LED, 252W FLOOD, 6X6

953  
\$ 137.24

---

953  
Material only \$ 1,022.07  
Mat Handling \$ 124.88  
Labor (w/o MatHand) \$ 279.57  
Total Installation \$ 1,426.52

Material \$ 1,022.07  
Labor (incl Material Handling) \$ 404.45  
Total Installation \$ 1,426.52

Material only \$ 878.86  
Mat Handling \$ 134.55  
Labor (w/o MatHand) \$ 306.65  
Total Installation \$ 1,320.06

Δ 2020 to 2017  
Material only \$ 143.21  
Labor (excl MatHand) \$ (9.67)  
Material Handling \$ (27.09)  
\$ 106.46

LED 26W GRNVIL PT/ 30W LEXINGTON PT

965  
 0%  
 100%  
 n/a  
 0%  
 0%  
 N/A  
 81  
 2155  
 2630  
 3024 7030  
 9  
 \$ 311.62  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 26W GRNVIL PT, TYP III, 3K, BLK	2126398	\$ 663.86	163	18.0%	119.44
LED, 26W GRNVIL PT, TYP III, 4K, BLK	2126399	663.49	69	7.6%	50.53
LED, 30W LEXINGTON PT, TYP III, 3K, BLK	2128495	314.23	544	15.0%	47.17
LED, 26W GRNVIL PT, T III, 3K, BLK INT	2129359	658.48	130	14.3%	94.48
					-
					-
Weighted Average Luminaire Cost			25.0%		\$ 311.62
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
					-
Weighted Average Photocontrol Cost	% PC		100%		\$ 109.35
Control Equipment Average Cost					\$ 109.35
MATERIAL HANDLING @ 12.22% of material cost					51.44
<b>TOTAL MATERIAL COST</b>					<b>\$ 472.41</b>

<u>LABOR/VEHICLE</u>	<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL LIGHT FIXTURE				
PT Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.10	\$ 182.94
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				\$ 254.62
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 254.62</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 727.03</b>

\$	472.41
\$	254.62
\$	727.03

e, & Hardware

	<b>965</b>
Material only	\$ 420.97
Mat Handling	\$ 51.44
Labor (w/o MatHand)	\$ 254.62
Total Installation	\$ 727.03
Material	\$ 420.97
Labor (incl Material Handling)	\$ 306.06
Total Installation	\$ 727.03

LED 39W ENH GRNVL PT / 37W					
	967				
	0%				
	100%				
	n/a				
	0%				
	8%				
	N/A				
	81				
	4852				
	39				
	4990				
	14				
	\$ 663.33				
	n/a				
<b>MATERIAL</b>					
	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 39W GRNVIL PT, TYP III, 3K, BLK	2126402	\$ 660.16	935	46.8%	308.78
LED, 39W GRNVIL PT, TYP III, 4K, BLK	2126403	\$ 656.76	59	3.0%	19.38
LED, 39W GRNVIL PT, TYP III, 3K, BLK INT	2129309	\$ 666.67	1,002	50.1%	334.17
LED, 39W GRNVIL PT, TYP III, 4K, BLK INT	2129312	\$ 662.03	3	0.2%	0.99
					-
					-
Weighted Average Luminaire Cost					\$ 663.33
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
					-
Weighted Average Photocontrol Cost % PC					\$ 109.35
Control Equipment Average Cost					\$ 109.35
MATERIAL HANDLING @ 12.22% of material cost					94.41
<b>TOTAL MATERIAL COST</b>					<b>\$ 867.09</b>

<u>LABOR/VEHICLE</u>	<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL LIGHT FIXTURE				
PT Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.10	\$ 182.94
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				\$ 254.62
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 254.62</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 1,121.71</b>

\$ 867.09
\$ 254.62
\$ 1,121.71

\$ 867.09

	<b>967</b>
Material only	\$ 772.68
Mat Handling	\$ 94.41
Labor (w/o MatHand)	\$ 254.62
Total Installation	\$ 1,121.71
Material	\$ 772.68
Labor (incl Material Handling)	\$ 349.03
Total Installation	\$ 1,121.71

LED 39W ENH GRNVL PT/ 37W

968  
 0%  
 100%  
 n/a  
 0%  
 7%  
 N/A  
 81  
 0  
 39  
 4476  
 14  
 \$ 813.82  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 39W ENH GRNVL PT TYP III, 3K, BLK	2126406	\$ 812.67	276	51.9%	421.61
LED, 39W ENH GRNVL PT TYP III, 4K, BLK	2126407	\$ 796.32	32	6.0%	47.90
LED, 39W ENH GRNVL PT TYP III, 3K, WHT	2127971	\$ 795.86	4	0.8%	5.98
LED, 39W ENH GRNVL PT T III, 3K, BLK INT	2129313	\$ 817.77	219	41.2%	336.64
LED, 39W ENH GRNVL PT T III,4K, BLK INT	2129314	\$ 896.06	1	0.2%	1.68
					-
					-
Weighted Average Luminaire Cost					\$ 813.82
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
					-
Weighted Average Photocontrol Cost	% PC		100%		\$ 109.35
Control Equipment Average Cost					\$ 109.35
MATERIAL HANDLING @ 12.22% of material cost					112.80
<b>TOTAL MATERIAL COST</b>					<b>\$ 1,035.97</b>

<u>LABOR/VEHICLE</u>	<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL LIGHT FIXTURE				
PT Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.10	\$ 182.94
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				\$ 254.62
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 254.62</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 1,290.59</b>

\$ 1,035.97
\$ 254.62
\$ 1,290.59

\$ 1,035.97

	<b>968</b>
Material only	\$ 923.17
Mat Handling	\$ 112.80
Labor (w/o MatHand)	\$ 254.62
Total Installation	\$ 1,290.59
Material	\$ 923.17
Labor (incl Material Handling)	\$ 367.42
Total Installation	\$ 1,290.59



LED, 55W UTILITY PT  
 971  
 0%  
 100%  
 n/a  
 0%  
 1%  
 N/A  
 103  
 11346  
 55  
 5240  
 19  
 \$ 807.10  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 55W UTILITY PT, TYP III, 3K, BLK	2126420	808.12	2541	41.6%	335.91
LED, 55W UTILITY PT, TYP III, 4K, BLK	2126421	800.24	52	0.9%	6.81
LED, 55W UTILITY PT, T III, 3K, BLK INT	2129330	806.44	3519	57.6%	464.23
LED, 55W UTILITY PT, T III, 4K, BLK INT	2129331	883.69	1	0.0%	0.14
					-
					-
Weighted Average Luminaire Cost					\$ 807.10
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
					-
Weighted Average Photocontrol Co % PC			100%		\$ 109.35
Control Equipment Average Cost					\$ 109.35
MATERIAL HANDLING @ 12.22% of material cost					111.98
<b>TOTAL MATERIAL COST</b>					<b>\$ 1,028.43</b>

<u>LABOR/VEHICLE</u>	<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL LIGHT FIXTURE				
PT Fixture Installation/ TECO Labor&Vehic LN2		\$ 166.31	1.10	\$ 182.94
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				\$ 254.62
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 254.62</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 1,283.05</b>

\$ 1,028.43
\$ 254.62
\$ 1,283.05

\$ 1,028.43

<b>971</b>	
Material only	\$ 916.45
Mat Handling	\$ 111.98
Labor (w/o MatHand)	\$ 254.62
Total Installation	\$ 1,283.05
Material	\$ 916.45
Labor (incl Material Handling)	\$ 366.60
Total Installation	\$ 1,283.05

2013 Rates	
Material only	1037.71
Material Handling	214.39
Labor (excl MatHand)	201.59
	1453.69
Δ 2017new to 2013	
Material only	\$ (121.26)
Labor (excl MatHand)	\$ (102.41)
Material Handling	\$ 53.03
	\$ (170.64)

LED 60W GRNVIL PT/ 57W  
 972  
 0%  
 100%  
 n/a  
 0%  
 1%  
 N/A  
 125  
 199  
 60  
 7076  
 21  
 \$ 679.61  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 60W GRNVIL PT, TYP III, 3K, BLK	2126415	\$ 676.40	48	20.0%	135.28
LED, 60W GRNVIL PT, TYP III, 4K, BLK	2126416	\$ 667.62	46	19.2%	127.96
LED, 60W GRNVIL PT, TY III, 480V 4K, BLK	2126417	\$ 693.83	7	2.9%	20.24
LED, 60W GRNVIL PT, T III, 3K, BLK INT	2129315	\$ 686.33	130	54.2%	371.76
LED, 60W GRNVIL PT, T III, 4K, BLK INT	2129316	\$ 632.56	8	3.3%	21.09
LED, 60W GRNVIL PT, TIII, 480V 4K, BLK INT	2129317	\$ 789.07	1	0.4%	3.29
					-
Weighted Average Luminaire Cost					\$ 679.61
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
					-
Weighted Average Photocontrol Co % PC				100%	\$ 109.35
Control Equipment Average Cost					\$ 109.35
MATERIAL HANDLING @ 12.22% of material cost					96.40
<b>TOTAL MATERIAL COST</b>					<b>\$ 885.36</b>

<u>LABOR/VEHICLE</u>	<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL LIGHT FIXTURE				
PT Fixture Installation/ TECO Labor&Vehic LN2		\$ 166.31	1.10	\$ 182.94
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				\$ 254.62
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 254.62</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 1,139.98</b>

\$ 885.36
\$ 254.62
\$ 1,139.98

<b>972</b>	
Material only	\$ 788.96
Mat Handling	\$ 96.40
Labor (w/o MatHand)	\$ 254.62
Total Installation	\$ 1,139.98
Material	\$ 788.96
Labor (incl Material Handling)	\$ 351.02
Total Installation	\$ 1,139.98

2013 Rates	
Material only	1037.71
Material Handling	214.39
Labor (excl MatHand)	201.59
	1453.69
Δ 2017new to 2013	
Material only	\$ (248.75)
Labor (excl MatHand)	\$ (117.99)
Material Handling	\$ 53.03
	\$ (313.71)

LED 60W ENH GRNVL PT/ 57W  
 973  
 0%  
 100%  
 n/a  
 0%  
 1%  
 N/A  
 94  
 0  
 60  
 6347  
 21  
 \$ 825.72  
 n/a

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 60W ENH GRNVIL PT TYP III,3K, BLK	2126418	828.48	5	7.9%	65.75
LED, 60W ENH GRNVIL PT TYP III,4K, BLK	2126419	791.96	17	27.0%	213.70
LED, 60W ENH GRNVIL PT T III,3K, BLK INT	2129318	838.17	40	63.5%	532.17
LED, 60W ENH GRNVIL PT T III,4K, BLK INT	2129319	888.04	1	1.6%	14.10
					-
					-
Weighted Average Luminaire Cost			20		\$ 825.72
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
					-
Weighted Average Photocontrol Cost	% PC			100%	\$ 109.35
Control Equipment Average Cost					\$ 109.35
MATERIAL HANDLING @ 12.22% of material cost					114.25
<b>TOTAL MATERIAL COST</b>					<b>\$ 1,049.33</b>

<u>LABOR/VEHICLE</u>	<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL LIGHT FIXTURE				
PT Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.10	\$ 182.94
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				\$ 254.62
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 254.62</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 1,303.95</b>

\$ 1,049.33
\$ 254.62
\$ 1,303.95

		<b>973</b>
Material only	\$	935.07
Mat Handling	\$	114.25
Labor (w/o MatHand)	\$	254.62
Total Installation	\$	1,303.95
Material	\$	935.07
Labor (incl Material Handling)	\$	368.87
Total Installation	\$	1,303.95
2013 Rates		
Material only		1089.56
Material Handling		225.1
Labor (excl MatHand)		201.59
		1516.25
Δ 2014new to 2013 Δ 2017new to 2013		
Material only	\$	(154.49)
Labor (excl MatHand)	\$	(110.85)
Material Handling	\$	53.03
	\$	(212.30)

LED, 76W UTILITY PT					
975					
	0%				
	100%				
	n/a				
	0%				
	0%				
	N/A				
	94				
	3171				
	76				
	7188				
	27				
\$	847.78				
	n/a				
<b>MATERIAL</b>					
	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
LUMINAIRE					
LED, 76W UTILITY PT, TYP III, 3K, BLK	2126422	847.13	633	50.9%	431.06
LED, 76W UTILITY PT, TYP III, 4K, BLK	2126423	831.17	70	5.6%	46.77
LED, 76W UTILITY PT, T III, 3K, BLK INT	2129357	850.54	540	43.4%	369.21
LED, 76W UTILITY PT, T III, 4K, BLK INT	2129358	930.20	1	0.1%	0.75
					-
					-
					-
Weighted Average Luminaire Cost					\$ 847.78
PHOTOCONTROL					
New NLC for LED	New NLC for LED	\$109.35	1	100.0%	109.35
					-
Weighted Average Photocontrol % PC					100% \$ 109.35
Control Equipment Average Cost					\$ 109.35
MATERIAL HANDLING @ 12.22% of material cost					116.95
<b>TOTAL MATERIAL COST</b>					<b>\$ 1,074.08</b>

<u>LABOR/VEHICLE</u>	<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL LIGHT FIXTURE				
PT Fixture Installation/ TECO Labor&Vehicle	LN2	\$ 166.31	1.10	\$ 182.94
NLC Integration		\$ 32.26	1.00	\$ 32.26
Engineering Office	E/O	\$ 77.56	0.24	\$ 18.81
Engineering Field	E/F	\$ 93.30	0.22	\$ 20.61
				\$ 254.62
<b>TOTAL LABOR/VEHICLE (TECO Installation)</b>				<b>\$ 254.62</b>
<b>TOTAL COST (TECO Installation)</b>				<b>\$ 1,328.70</b>

\$ 1,074.08
\$ 254.62
\$ 1,328.70

\$ 1,074.08

	<b>975</b>
Material only	\$ 957.13
Mat Handling	\$ 116.95
Labor (w/o MatHand)	\$ 254.62
Total Installation	\$ 1,328.70
Material	\$ 957.13
Labor (incl Material Handling)	\$ 371.57
Total Installation	\$ 1,328.70



		Rate Code	TIMER			
		563				
	<u>MATERIAL</u>		<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
TIMER			5588160	\$ 418.79	20.0%	83.76
			5588760	\$ 320.00	80.0%	256.00
						\$ 339.76
CABLE, POLE & BRACKET						
UG Copper, Triplex, 600V 2/C 10AWG			5322230	\$ 0.66	10	\$ 6.60
FIXTURE HARDWARE						
Pole Hardware wood/concrete						
Washer, Flat 2-1/4 X 2-1/4 X 3/16 w/ 13/16" Hole Dia			9296750	\$ 0.21	1	0.21
Nut, Eye 1-1/2" GALV for 5/8" bolt			9237650	\$ 1.58	1	1.58
Bolt, Machine Galv Rolled Threads 5/8 X 12			9235250	\$ 2.35	1	2.35
						\$ 4.14
Overhead Service Hardware						
Cover, Snap-On Squeezon Connector D die			5261900	\$ 0.44	2	0.88
Connector, Vice CU #2 str			9280550	\$ 2.62	2	5.24
Connector, Compression H-Block AL #8 str ACSR #2-2/0			9261540	\$ 0.24	4	0.96
		% OH			100%	\$ 7.08
Fixture Hardware Weighted Average Cost						\$ 11.22
MATERIAL HANDLING @ 12.22% of material cost						43.69
<b>TOTAL MATERIAL COST</b>						<b>\$ 401.27</b>
	<u>LABOR/VEHICLE</u>		<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL TIMER						
Timer Installation			SL1	\$ 65.22	1.27	\$ 82.61
Engineering Office			E/O	\$ 77.56	0.20	\$ 15.51
Engineering Field			E/F	\$ 93.30	0.00	\$ -
						\$ 98.12
<b>TOTAL LABOR/VEHICLE</b>						<b>\$ 98.12</b>
<b>TOTAL COST</b>						<b>\$ 499.39</b>

\$253.76
\$293.72
\$547.47

DOUBLE BRACKET 569					
	<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
BRACKET		5580950	\$ 310.44	1	\$ 310.44
MATERIAL HANDLING @ 12.22% of material cost					\$ 37.93
<b>TOTAL MATERIAL COST</b>					<b>\$ 348.37</b>
	<u>LABOR/VEHICLE</u>	<u>Crew Type</u>	<u>Unit Cost</u>	<u># of Units</u>	<u>Cost</u>
INSTALL DOUBLE BRACKET					
Double Bracket Installation		LN1	\$ 204.85	0.30	\$ 61.46
Engineering Office		E/O	\$ 77.56	0.20	\$ 15.51
Engineering Field		E/F	\$ 93.30	0.00	\$ -
					\$ 76.97
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 76.97</b>
<b>TOTAL COST</b>					<b>\$ 425.34</b>

\$301.04
\$139.33
\$440.37

TAMPA ELECTRIC COMPANY  
DOCKET NO. 20210034-EI  
COST OF SERVICE STUDY  
WITNESS: ASHBURN  
PAGE 166 OF 393  
FILED: 04/9/2021

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, ALUMINUM 10 FT BLK FINISH, USED W/	2005620	86.08	1 100.0%	86.08
				-
				-
				-
Weighted Average Pole Cost				\$ 86.08
CABLE				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG, based on OH/UG	2004166	0.59	75.0	\$44.25
				\$44.25
CABLE HARDWARE w/ P&B Cable (UG only)				
UndergroundCable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	33	\$19.18
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4"x1/8"	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
			100%	\$ 84.41
Cable Hardware Weighted Average Cost				\$ 84.41
GROUNDING (1 every 1/4 mile) - UG Circuits				
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS LENGTH 10FT	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THREADLESS 1/2"	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$1.47
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	73	\$52.56
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRINTED SEQ.	2007414	0.03	81	\$2.43
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	4	\$2.55
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	6.06	0.2	\$1.31
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$103.17
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost			100%	\$103.17
MATERIAL HANDLING @ 12.22% of material cost				\$ 39.02
<b>TOTAL MATERIAL COST</b>				<b>\$ 358.41</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	2.60	\$ 380.69
Pull UG Conductor (includes install HH & terminate @ secondary)	CC1	\$ 159.85	0.64	\$ 102.56
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 670.48
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 670.48</b>
<b>TOTAL COST</b>				<b>\$ 1,028.89</b>

\$	358.41
\$	670.48
\$	1,028.89

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or</u>		<u>Cost</u>
			<u>%</u>		
POLE					
POLE, CONCRETE, 23FT BROWN, ROUND P/N SE	2002865	\$1,347.59	4	100.0%	1,347.59
					-
					-
					-
Weighted Average Pole Cost					\$ 1,347.59
CABLE					
<i>based on OH/UG</i>					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	106.0		\$62.54
					\$62.54
CABLE HARDWARE w/ P&B Cable (UG only)					
UndergroundCable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	48		\$28.32
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TU	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
			100%		\$ 93.55
Cable Hardware Weighted Average Cost					\$ 93.55
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =			14	0.07	
ROD, GROUND, SECTIONAL, COPPER BONDED, THREE	2077980	11.88	2		\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREE	2077939	4.49	1		\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		\$1.66
			100%		\$2.18
Grounding Average Cost					\$2.18
CONDUIT					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	104		\$74.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRINT	2007414	0.03	112		\$3.36
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 I	2004511	1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6		\$3.48
CEMENT, PVC CLEAR FAST DRY QUART W/DAUE	2007227	6.06	0.3		\$1.94
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2		\$41.80
					\$127.98
Wood					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	35		\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2		\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4		0.16
			0%		\$ -
Conduit Average Cost					\$127.98
			100%		\$127.98
MATERIAL HANDLING @ 12.22% of material cost					\$ 199.63
<b>TOTAL MATERIAL COST</b>					<b>\$ 1,833.47</b>
<b>LABOR/VEHICLE</b>					
	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>		<b>Cost</b>
INSTALL POLE					
Haul Set Pole	LN1	\$ 204.85	0.71		\$ 145.98
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00		\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.77		\$ 551.72
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	0.91		\$ 144.95
Engineering Office	E/O	\$ 77.56	0.30		\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19		\$ 18.00
					\$ 883.91
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 883.91</b>
<b>TOTAL COST</b>					<b>\$ 2,717.38</b>

\$ 1,833.47  
\$ 883.91  
\$ 2,717.38  
pole price is alm

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
POLE					
POLE, FRANKLIN, COMP. FLUTED, 16" BLACK, 3" MTG	2005665	\$808.45	205	99.5%	804.53
POLE, COMPOSITE, FLUTED, 16FT. BLACK FIN	2005667	\$724.55	1	0.5%	3.52
					-
					-
Weighted Average Pole Cost					\$ 808.04
CABLE <i>based on OH/UG</i>					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/1	2004166	0.59	106.0		\$62.54
					\$62.54
CABLE HARDWARE w/ P&B Cable (UG only)					
Underground Cable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/1	2004166	0.59	48		\$28.32
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ T	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4"	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
			% UG	100%	\$ 93.55
Cable Hardware Weighted Average Cost					\$ 93.55
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =					
			14	0.07	
ROD, GROUND, SECTIONAL, COPPER BONDED, THRE	2077980	11.88	2		\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THR	2077939	4.49	1		\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		\$1.66
Grounding Average Cost			% UG	100%	\$2.18
CONDUIT					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	104		\$74.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRIN	2007414	0.03	112		\$3.36
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6		\$3.48
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.3		\$1.94
SPLICE, GEL CAP 600V USED WITH #10, #6, #4	2005073	20.90	2		\$41.80
					\$127.98
Wood					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	35		\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2		\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD	2000943	0.04	4		0.16
			% Wood	0%	\$ -
			% UG	100%	\$127.98
Conduit Average Cost					\$127.98
MATERIAL HANDLING @ 12.22% of material cost					\$ 133.71
<b>TOTAL MATERIAL COST</b>					<b>\$ 1,228.00</b>
<b>LABOR/VEHICLE</b>					
<b>INSTALL POLE</b>					
Haul Set Pole	LN1	\$ 204.85	0.71		\$ 145.98
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00		\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.77		\$ 551.72
Pull UG Conductor (includes install HH & terminate @ CC1)	CC1	\$ 159.85	0.91		\$ 144.95
Engineering Office	E/O	\$ 77.56	0.30		\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19		\$ 18.00
					\$ 883.91
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 883.91</b>
<b>TOTAL COST</b>					<b>\$ 2,111.90</b>

\$	1,228.00
\$	883.91
\$	2,111.90

ost 3x more now

MATERIAL	Stock #	Unit Cost	# of Units and/or %	Cost
POLE				
POLE, ALUMINUM, 16 FT DK BRONZE, SMOOTH	2005632	\$376.52	1 25.0%	94.13
POLE, ALUMINUM, 16FT., BLACK SMOOTH SURF	2005658	\$327.96	1 25.0%	81.99
POLE, ALUMINUM 18 FT DIRECT IMBEDMENT, B	2005664	\$350.56	1 25.0%	87.64
POLE, ALUMINUM, 16 FT WHITE SMOOTH SURFA	2005685	\$305.43	1 25.0%	76.36
				-
Weighted Average Pole Cost				\$ 340.12
CABLE				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	104.0	\$61.36
				\$61.36
CABLE HARDWARE w/ P&B Cable (UG only)				
UndergroundCable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	47	\$27.73
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4"x1/8	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
			100%	\$ 92.96
Cable Hardware Weighted Average Cost				\$ 92.96
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =				
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS L	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THREADLESS	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$2.13
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	102	\$73.44
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRINTED SEQ.	2007414	0.03	110	\$3.30
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6	\$3.42
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	6.06	0.3	\$1.90
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$126.38
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost			100%	\$126.38
MATERIAL HANDLING @ 12.22% of material cost				\$ 76.12
<b>TOTAL MATERIAL COST</b>				<b>\$ 699.06</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.70	\$ 540.69
Pull UG Conductor (includes install HH & terminate @ secondary)	CC1	\$ 159.85	0.89	\$ 142.22
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 870.14
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 870.14</b>
<b>TOTAL COST</b>				<b>\$ 1,569.20</b>

\$ 699.06
\$ 870.14
\$ 1,569.20

MATERIAL	Stock #	Unit Cost	# of Units and/or %	Cost
POLE				-
				-
				-
Weighted Average Pole Cost		mimic	585	\$ 944.99
CABLE				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/1	2004166	0.59	104.0	\$61.36
				\$61.36
CABLE HARDWARE w/ P&B Cable (UG only)				
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/1	2004166	0.59	47	\$27.73
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ T	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4'	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
			100%	\$ 92.96
Cable Hardware Weighted Average Cost				\$ 92.96
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =			14	0.07
ROD, GROUND, SECTIONAL, COPPER BONDED, THRE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THR	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$2.13
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	102	\$73.44
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRIN	2007414	0.03	110	\$3.30
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6	\$3.42
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.3	\$1.90
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$126.38
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost			100%	\$126.38
MATERIAL HANDLING @ 12.22% of material cost				\$ 150.02
<b>TOTAL MATERIAL COST</b>				<b>\$ 1,377.84</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ secondary	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.70	\$ 540.69
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	0.89	\$ 142.22
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 870.14
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 870.14</b>
<b>TOTAL COST</b>				<b>\$ 2,247.98</b>

\$	1,377.84
\$	870.14
\$	2,247.98

MATERIAL	Stock #	Unit Cost	# of Units and/or %	Cost
POLE				
POLE, FIBERGLASS FLUTED 16 FT BLACK SURF	2005618	\$841.24	1 0.1%	1.15
POLE, WINSTON, FIBERGLASS, 16', BLACK, 3" MTG	2005649	\$181.12	726 99.5%	180.13
POLE, FIBERGLASS 16 FT WHITE POST-TOP LU	2005650	\$261.08	3 0.4%	1.07
				-
				-
Weighted Average Pole Cost				\$ 182.35
CABLE				
<i>based on OH/UG</i>				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	106.0	\$62.54
				\$62.54
CABLE HARDWARE w/ P&B Cable (UG only)				
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	48	\$28.32
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TU	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
			100%	\$ 93.55
				% UG
Cable Hardware Weighted Average Cost				\$ 93.55
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =		14	0.07	
ROD, GROUND, SECTIONAL, COPPER BONDED, THREE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREE	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$2.18
				% UG
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	104	\$74.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRINT	2007414	0.03	112	\$3.36
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 I	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6	\$3.48
CEMENT, PVC CLEAR FAST DRY QUART W/DAUE	2007227	6.06	0.3	\$1.94
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$127.98
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$
				% Wood
Conduit Average Cost			100%	\$127.98
				% UG
MATERIAL HANDLING @ 12.22% of material cost				\$ 57.26
<b>TOTAL MATERIAL COST</b>				<b>\$ 525.85</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.77	\$ 551.72
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	0.91	\$ 144.95
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 883.91
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 883.91</b>
<b>TOTAL COST</b>				<b>\$ 1,409.76</b>

\$ 525.85
\$ 883.91
\$ 1,409.76



<b>MATERIAL</b>	<b>Stock #</b>	<b>Unit Cost</b>	<b># of Units and/or</b>		<b>Cost</b>
			<b>%</b>		
POLE					
POLE, CONCRETE 16 FT OCTAGONAL, BLACK PR	2002832	\$874.70	43	91.5%	800.26
POLE, CONCRETE 16 FT OCTAGONAL, BROWN, PREM	2002833	\$693.76	1	2.1%	14.76
POLE, CONCRETE 16 FT PRESTR, OCTOGONAL,	2002962	\$552.37	1	2.1%	11.75
POLE, CONCRETE 16FT PRETR RED BRICK OCTAGC	2002966	\$1,033.32	1	2.1%	21.99
POLE, CONCRETE 16FT PRETR GREEN OCTAGONAL	2002967	\$1,033.32	1	2.1%	21.99
Weighted Average Pole Cost					\$ 870.74
CABLE					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	106.0		\$62.54
					\$62.54
CABLE HARDWARE w/ P&B Cable (UG only)					
UndergroundCable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	48		\$28.32
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TU	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
			100%		\$ 93.55
Cable Hardware Weighted Average Cost					\$ 93.55
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =					
ROD, GROUND, SECTIONAL, COPPER BONDED, THREE	2077980	11.88	2	0.07	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREE	2077939	4.49	1		\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		\$1.66
Grounding Average Cost			100%		\$2.18
CONDUIT					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	104		\$74.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRIN	2007414	0.03	112		\$3.36
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 I	2004511	1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6		\$3.48
CEMENT, PVC CLEAR FAST DRY QUART W/DAUE	2007227	6.06	0.3		\$1.94
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2		\$41.80
					\$127.98
Wood					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	35		\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2		\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4		0.16
					\$
Conduit Average Cost			100%		\$127.98
MATERIAL HANDLING @ 12.22% of material cost					\$ 141.37
<b>TOTAL MATERIAL COST</b>					<b>\$ 1,298.36</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>		<b>Cost</b>
INSTALL POLE					
Haul Set Pole	LN1	\$ 204.85	0.71		\$ 145.98
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00		\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.77		\$ 551.72
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	0.91		\$ 144.95
Engineering Office	E/O	\$ 77.56	0.30		\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19		\$ 18.00
					\$ 883.91
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 883.91</b>
<b>TOTAL COST</b>					<b>\$ 2,182.26</b>

\$ 1,298.36  
\$ 883.91  
\$ 2,182.26

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				-
				-
				-
				-
Weighted Average Pole Cost		mimic	599	\$ 322.41
CABLE <i>based on OH/UG</i>				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWC	2004166	0.59	104.0	\$61.36
				\$61.36
CABLE HARDWARE w/ P&B Cable (UG only)				
UndergroundCable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWC	2004166	0.59	47	\$27.73
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4"x1.	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
			100%	\$ 92.96
Cable Hardware Weighted Average Cost				\$ 92.96
GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>			14	0.07
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THREADLESS	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$2.13
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	102	\$73.44
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRINTED SEC	2007414	0.03	110	\$3.30
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6	\$3.42
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	6.06	0.3	\$1.90
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$126.38
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost			100%	\$126.38
MATERIAL HANDLING @ 12.22% of material cost				\$ 73.95
<b>TOTAL MATERIAL COST</b>				<b>\$ 679.19</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.70	\$ 540.69
Pull UG Conductor (includes install HH & terminate @ secondary)	CC1	\$ 159.85	0.89	\$ 142.22
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 870.14
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 870.14</b>
<b>TOTAL COST</b>				<b>\$ 1,549.33</b>

\$406.18
\$1,004.94
\$1,411.12

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, ALUMINUM, TAPERED, 16', BLACK, 3"	2005653	\$944.99	100.0%	944.99
				-
				-
				-
Weighted Average Pole Cost				\$ 944.99
CABLE				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/1	2004166	0.59	106.0	\$62.54
				\$62.54
CABLE HARDWARE w/ P&B Cable (UG only)				
UndergroundCable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/1	2004166	0.59	48	\$28.32
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ T	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4'	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
			100%	\$ 93.55
Cable Hardware Weighted Average Cost				\$ 93.55
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =			14	0.07
ROD, GROUND, SECTIONAL, COPPER BONDED, THRE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THR	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$2.18
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	104	\$74.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRIN	2007414	0.03	112	\$3.36
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6	\$3.48
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.3	\$1.94
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$127.98
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost			100%	\$127.98
MATERIAL HANDLING @ 12.22% of material cost				\$ 150.44
<b>TOTAL MATERIAL COST</b>				<b>\$ 1,381.68</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ secondar	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.77	\$ 551.72
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	0.91	\$ 144.95
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 883.91
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 883.91</b>
<b>TOTAL COST</b>				<b>\$ 2,265.58</b>

\$	1,381.68
\$	883.91
\$	2,265.58

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
POLE					
POLE, CHARLESTON ALUMINUM TAPERED 16' BL	2005654	\$442.73	1,291	99.8%	442.05
POLE, ALUMINUM TAPERED, 16FT, PAINTED WH	2005687	\$499.79	2	0.2%	0.77
					-
					-
Weighted Average Pole Cost					\$ 442.82
CABLE					
					<i>based on OH/UG</i>
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2	2004166	0.59	106.0		\$62.54
					\$62.54
CABLE HARDWARE w/ P&B Cable (UG only)					
UndergroundCable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2	2004166	0.59	48		\$28.32
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ 1	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4'	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
	% UG		100%		\$ 93.55
Cable Hardware Weighted Average Cost					\$ 93.55
GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>			14	0.07	
ROD, GROUND, SECTIONAL, COPPER BONDED, THR	2077980	11.88	2		\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THF	2077939	4.49	1		\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		\$1.66
Grounding Average Cost				100%	\$2.18
CONDUIT					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING 1	2004489	0.72	104		\$74.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRI	2007414	0.03	112		\$3.36
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6		\$3.48
CEMENT, PVC CLEAR FAST DRY QUART W/DAI	2007227	6.06	0.3		\$1.94
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2		\$41.80
					\$127.98
Wood					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING 1	2004489	0.72	35		\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2		\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4		0.16
					\$ -
	% Wood		0%		\$ -
Conduit Average Cost				100%	\$127.98
MATERIAL HANDLING @ 12.22% of material cost					\$ 89.08
<b>TOTAL MATERIAL COST</b>					<b>\$ 818.15</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>		<b>Cost</b>
INSTALL POLE					
Haul Set Pole	LN1	\$ 204.85	0.71		\$ 145.98
Run OH Conductor (includes terminate @ seconda	LN1	\$ 204.85	0.00		\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.77		\$ 551.72
Pull UG Conductor (includes install HH & terminate	CC1	\$ 159.85	0.91		\$ 144.95
Engineering Office	E/O	\$ 77.56	0.30		\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19		\$ 18.00
					\$ 883.91
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 883.91</b>
<b>TOTAL COST</b>					<b>\$ 1,702.05</b>

\$	818.15
\$	883.91
\$	1,702.05

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				-
				-
				-
				-
Weighted Average Pole Cost	mimic		586	\$ 442.82
CABLE				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2	2004166	0.59	104.0	\$61.36
				\$61.36
CABLE HARDWARE w/ P&B Cable (UG only)				
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2	2004166	0.59	47	\$27.73
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ T	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4'	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
	% UG		100%	\$ 92.96
Cable Hardware Weighted Average Cost				\$ 92.96
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =			14	0.07
ROD, GROUND, SECTIONAL, COPPER BONDED, THR	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THF	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost	% UG		100%	\$2.13
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	102	\$73.44
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRI	2007414	0.03	110	\$3.30
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6	\$3.42
CEMENT, PVC CLEAR FAST DRY QUART W/DAI	2007227	6.06	0.3	\$1.90
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$126.38
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
	% Wood		0%	\$ -
Conduit Average Cost	% UG		100%	\$126.38
MATERIAL HANDLING @ 12.22% of material cost				\$ 88.67
<b>TOTAL MATERIAL COST</b>				<b>\$ 814.31</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ seconda	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.70	\$ 540.69
Pull UG Conductor (includes install HH & terminate	CC1	\$ 159.85	0.89	\$ 142.22
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 870.14
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 870.14</b>
<b>TOTAL COST</b>				<b>\$ 1,684.45</b>

\$	814.31
\$	870.14
\$	1,684.45

<b>MATERIAL</b>	<b>Stock #</b>	<b>Unit Cost</b>	<b># of Units and/or %</b>	<b>Cost</b>
POLE				
POLE, ALUMINUM, TAPERED, 16', BLACK, 3"	2005652	\$628.40	100.0%	628.40
				-
				-
				-
Weighted Average Pole Cost				\$ 628.40
<b>CABLE</b>				
<i>based on OH/UG</i>				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	106.0	\$62.54
				\$62.54
<b>CABLE HARDWARE w/ P&amp;B Cable (UG only)</b>				
UndergroundCable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	48	\$28.32
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TU	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
			100%	\$ 93.55
Cable Hardware Weighted Average Cost				\$ 93.55
<b>GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =</b>				
ROD, GROUND, SECTIONAL, COPPER BONDED, THREE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREE	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$2.18
<b>CONDUIT</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	104	\$74.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRIN	2007414	0.03	112	\$3.36
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 I	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6	\$3.48
CEMENT, PVC CLEAR FAST DRY QUART W/DAUE	2007227	6.06	0.3	\$1.94
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$127.98
<b>Wood</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$
Conduit Average Cost			100%	\$127.98
MATERIAL HANDLING @ 12.22% of material cost				\$ 111.76
<b>TOTAL MATERIAL COST</b>				<b>\$ 1,026.40</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.77	\$ 551.72
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	0.91	\$ 144.95
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 883.91
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 883.91</b>
<b>TOTAL COST</b>				<b>\$ 1,910.31</b>

\$ 1,026.40
\$ 883.91
\$ 1,910.31

MATERIAL	Stock #	Unit Cost	# of Units and/or %	Cost
POLE				
POLE, CONCRETE 35 FT TYPE I OCTAGONAL, B	2002844	\$1,627.63	16 17.2%	280.02
POLE, CONCRETE 35 FT PRESTRSD OCTAGONAL	2002850	\$670.89	1 1.1%	7.21
POLE, CONCRETE 40 FT TYPE I OCTAGONAL, B	2002851	\$2,227.27	1 1.1%	23.95
POLE, CONCRETE 35 FT PRESTRESSED OCTAGON	2002864	\$684.64	2 2.2%	14.72
POLE, CONCRETE 35 FT PRESTRESSED, OCTAGO	2002964	\$1,657.71	73 78.5%	1,301.21
Weighted Average Pole Cost				\$ 1,627.12
CABLE				
<i>based on OH/UG</i>				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWC	2004166	0.59	156.0	\$92.04
				\$92.04
CABLE HARDWARE w/ P&B Cable (UG only)				
UndergroundCable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWC	2004166	0.59	73	\$43.07
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4"x1.	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
			100%	\$ 108.30
Cable Hardware Weighted Average Cost				\$ 108.30
GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>				
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS	2077980	11.88	2 0.11	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREADLESS	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$3.31
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	154	\$110.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRINTED SEC	2007414	0.03	162	\$4.86
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	8	\$4.98
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	6.06	0.5	\$2.95
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$167.99
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost			100%	\$167.99
MATERIAL HANDLING @ 12.22% of material cost				\$ 244.22
<b>TOTAL MATERIAL COST</b>				<b>\$ 2,242.98</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	5.66	\$ 827.58
Pull UG Conductor (includes install HH & terminate @ secondary)	CC1	\$ 159.85	1.33	\$ 213.33
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 1,228.14
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 1,228.14</b>
<b>TOTAL COST</b>				<b>\$ 3,471.13</b>

\$980.56  
\$1,362.36  
\$2,342.93  
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<b>MATERIAL</b>	<b>Stock #</b>	<b>Unit Cost</b>	<b># of Units and/or %</b>		<b>Cost</b>
POLE					
POLE, CONCRETE, 16FT PRESTRESSED FLUTED,	2002952	\$1,657.91	76	97.4%	1,615.40
POLE, CONCRETE 16FT PRESTRESSED FLUTED G	2002953	\$1,673.66	2	2.6%	42.91
					-
					-
Weighted Average Pole Cost					\$ 1,658.31
CABLE					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/1	2004166	0.59	106.0		\$62.54
					\$62.54
CABLE HARDWARE w/ P&B Cable (UG only)					
UndergroundCable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/1	2004166	0.59	48		\$28.32
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ T	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4'	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
					\$ 93.55
			100%		\$ 93.55
Cable Hardware Weighted Average Cost					\$ 93.55
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =			14	0.07	
ROD, GROUND, SECTIONAL, COPPER BONDED, THRE	2077980	11.88	2		\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THR	2077939	4.49	1		\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		\$1.66
Grounding Average Cost					\$2.18
				100%	\$2.18
CONDUIT					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	104		\$74.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRIN	2007414	0.03	112		\$3.36
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6		\$3.48
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.3		\$1.94
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2		\$41.80
					\$127.98
Wood					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	35		\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2		\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4		0.16
					\$ -
Conduit Average Cost					\$127.98
				100%	\$127.98
MATERIAL HANDLING @ 12.22% of material cost					\$ 237.60
<b>TOTAL MATERIAL COST</b>					<b>\$ 2,182.16</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>		<b>Cost</b>
INSTALL POLE					
Haul Set Pole	LN1	\$ 204.85	0.71		\$ 145.98
Run OH Conductor (includes terminate @ secondar	LN1	\$ 204.85	0.00		\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.77		\$ 551.72
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	0.91		\$ 144.95
Engineering Office	E/O	\$ 77.56	0.30		\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19		\$ 18.00
					\$ 883.91
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 883.91</b>
<b>TOTAL COST</b>					<b>\$ 3,066.07</b>

\$ 2,182.16  
\$ 883.91  
\$ 3,066.07

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<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, WINSTON, ALUM, 16FT, DB, HH, BLK	2127280	\$279.46	100.0%	279.46
				-
				-
				-
Weighted Average Pole Cost				\$ 279.46
CABLE				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	106.0	\$62.54
				\$62.54
CABLE HARDWARE w/ P&B Cable (UG only)				
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	48	\$28.32
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TU	2007362	7.45	0	\$0.00
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
	% UG		100%	\$ 86.10
Cable Hardware Weighted Average Cost				\$ 86.10
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =			14	0.07
ROD, GROUND, SECTIONAL, COPPER BONDED, THREE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREE	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost	% UG		100%	\$2.18
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	104	\$74.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRINT	2007414	0.03	112	\$3.36
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 I	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6	\$3.48
CEMENT, PVC CLEAR FAST DRY QUART W/DAUE	2007227	6.06	0.3	\$1.94
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$127.98
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
	% Wood		0%	\$ -
Conduit Average Cost	% UG		100%	\$127.98
MATERIAL HANDLING @ 12.2187663471397% of material cost				\$ 68.21
<b>TOTAL MATERIAL COST</b>				<b>\$ 626.47</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.77	\$ 551.72
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	0.91	\$ 144.95
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 883.91
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 883.91</b>
<b>TOTAL COST</b>				<b>\$ 1,510.37</b>

\$	626.47
\$	883.91
\$	1,510.37

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<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, CONCRETE 16FT NATURAL/MOLD FINISH	2002965	\$322.41	100.0%	322.41
				-
				-
				-
Weighted Average Pole Cost				\$ 322.41
CABLE				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/1	2004166	0.59	106.0	\$62.54
				\$62.54
CABLE HARDWARE w/ P&B Cable (UG only)				
UndergroundCable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/1	2004166	0.59	48	\$28.32
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ T	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4'	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
			100%	\$ 93.55
Cable Hardware Weighted Average Cost				\$ 93.55
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =			14 0.07	
ROD, GROUND, SECTIONAL, COPPER BONDED, THRE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THR	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$2.18
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	104	\$74.88
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRIN	2007414	0.03	112	\$3.36
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	6	\$3.48
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.3	\$1.94
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$127.98
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost			100%	\$127.98
MATERIAL HANDLING @ 12.22% of material cost				\$ 74.37
<b>TOTAL MATERIAL COST</b>				<b>\$ 683.02</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ secondar	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	3.77	\$ 551.72
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	0.91	\$ 144.95
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 883.91
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 883.91</b>
<b>TOTAL COST</b>				<b>\$ 1,566.93</b>

\$	683.02
\$	883.91
\$	1,566.93

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, STANDARD, 16 FT, PT, DB, FIBERGLAS	2131290	\$197.28	100.0%	197.28
				-
				-
				-
Weighted Average Pole Cost				\$ 197.28
CABLE				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2	2004166	0.59	75.0	\$44.25
				\$44.25
CABLE HARDWARE w/ P&B Cable (UG only)				
UndergroundCable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2	2004166	0.59	33	\$19.18
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ T	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4'	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
			100%	\$ 84.41
Cable Hardware Weighted Average Cost				\$ 84.41
GROUNDING (1 every 1/4 mile) - UG Circuits Spans per 1/4 mi =			20	0.05
ROD, GROUND, SECTIONAL, COPPER BONDED, THR	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THF	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$1.47
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING 1	2004489	0.72	73	\$52.56
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRI	2007414	0.03	81	\$2.43
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	4	\$2.55
CEMENT, PVC CLEAR FAST DRY QUART W/DAI	2007227	6.06	0.2	\$1.31
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$103.17
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING 1	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost			100%	\$103.17
MATERIAL HANDLING @ 12.22% of material cost				\$ 52.61
<b>TOTAL MATERIAL COST</b>				<b>\$ 483.19</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.71	\$ 145.98
Run OH Conductor (includes terminate @ seconda	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	2.60	\$ 380.69
Pull UG Conductor (includes install HH & terminate	CC1	\$ 159.85	0.64	\$ 102.56
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 670.48
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 670.48</b>
<b>TOTAL COST</b>				<b>\$ 1,153.68</b>

69.0  
2.601746184

\$ 483.19
\$ 670.48
\$ 1,153.68

MATERIAL	Stock #	Unit Cost	# of Units and/or %	Cost
POLE				
POLE, STEEL 30', 2-3/8" PTT .188" WALL D	2005680	1112.48	1 25.0%	278.12
POLE, STEEL, 30', 2-3/8" TENON, BLK, EPA	2005681	1379.44	1 25.0%	344.86
POLE, STEEL 30', 2-3/8" PTT .250" WALL D	2005849	711.92	1 25.0%	177.98
POLE, STEEL 30', 2-3/8" PTT .188" WALL B	2005856	678.02	1 25.0%	169.51
Weighted Average Pole Cost				\$ 970.47
FOUNDATION, ANCHOR				
FOUNDATION, ANCHOR TYPE FOR ST LITE 15 I	2005321	451.32	9 81.8%	369.26
FOUNDATION, ANCHOR SCREW 15 IN, GALV	2003631	187.61	1 9.1%	17.06
COVERS, STREET LIGHT POLE BASE	2005384	55.28	1 9.1%	5.03
% Foundation			100%	\$ 391.34
BASE				
BASE, TRANSFORMER CAST ALUM 17 IN HIGH W	2005322	651.03	1 50.0%	325.52
BASE, 37FT	2005323	414.66	1 50.0%	207.33
% Base			0%	\$ -
Foundation and Base Average Cost				\$ 391.34
CABLE				
<i>based on OH/UG</i>				
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG	2004361	0.47	0.0	\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	141.0	\$83.19
				\$83.19
CABLE HARDWARE w/ P&B Cable (UG only)				
UndergroundCable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	40	\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4"x1/8"	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
Cable Hardware Weighted Average Cost			100%	\$88.83
GROUNDING (1 every 1/4 mile) - UG Circuits				
<i>Spans per 1/4 mi = 10</i>				
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS LENGT	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREADLESS 1/2"	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$2.97
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	\$0.72	135	\$97.20
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRINTED SEQ.	2007414	\$0.03	139	\$4.17
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	\$1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	\$0.60	8	\$4.53
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	\$6.06	0.4	\$2.65
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	\$20.90	2	\$41.80
Conduit Average Cost			100%	\$152.87
MATERIAL HANDLING @ 12.22% of material cost				\$ 206.46
<b>TOTAL MATERIAL COST</b>				<b>\$ 1,896.12</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.82	\$ 168.60
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	5.09	\$ 744.82
Pull UG Conductor (includes install HH & terminate @ secondary)	CC1	\$ 159.85	1.21	\$ 192.81
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 1,147.49
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 1,147.49</b>
<b>TOTAL COST</b>				<b>\$ 3,043.61</b>

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, STEEL 30', 2-3/8" PTT .188" WALL D	2005680	\$1,112.48	1 4.3%	48.37
POLE, ALUMINUM 28 FT W/HANDHOLE DIRECT B	2005676	\$497.07	11 47.8%	237.73
POLE, ALUMINUM 32 FT 2 IN W/HANDHOLE DB	2005678	\$1,091.70	11 47.8%	522.12
				-
Weighted Average Pole Cost				\$ 808.22
FOUNDATION, ANCHOR				
FOUNDATION, ANCHOR TYPE FOR ST LITE 15 I	2005321	451.32	9 81.8%	369.26
FOUNDATION, ANCHOR SCREW 15 IN, GALV	2003631	187.61	1 9.1%	17.06
COVERS, STREET LIGHT POLE BASE	2005384	55.28	1 9.1%	5.03
			% Foundation	0%
				\$ -
BASE				
BASE, TRANSFORMER CAST ALUM 17 IN HIGH W	2005322	651.03	1 50.0%	325.52
BASE, 37FT	2005323	414.66	1 50.0%	207.33
			% Base	0%
				\$ -
Foundation and Base Average Cost				\$ -
CABLE				
			based on OH/UG	
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG	2004361	0.47	0.0	\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10A	2004166	0.59	138.0	\$81.42
				\$81.42
CABLE HARDWARE w/ P&B Cable (UG only)				
UndergroundCable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10A	2004166	0.59	40	\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4"	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
Cable Hardware Weighted Average Cost			% UG	100%
				\$88.83
GROUNDING (1 every 1/4 mile) - UG Circuits			Spans per 1/4 mi =	
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREADLE	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			% UG	100%
				\$2.90
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	\$0.72	132	\$95.04
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRINTED S	2007414	\$0.03	136	\$4.08
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	\$1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	\$0.60	7	\$4.44
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	\$6.06	0.4	\$2.59
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	\$20.90	2	\$41.80
Conduit Average Cost			% UG	100%
				\$150.47
MATERIAL HANDLING @ 12.22% of material cost				\$ 138.30
<b>TOTAL MATERIAL COST</b>				<b>\$ 1,270.13</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.82	\$ 168.60
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	4.98	\$ 728.27
Pull UG Conductor (includes install HH & terminate @ secur	CC1	\$ 159.85	1.18	\$ 188.71
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 1,126.84
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 1,126.84</b>
<b>TOTAL COST</b>				<b>\$ 2,396.96</b>

MATERIAL	Stock #	Unit Cost	# of Units	and/or %	Cost
POLE					
POLE, ALUMINUM 27 FT 2 IN SINGLE BRACKET,	2005671	\$1,381.24	14	58.3%	805.72
POLE, ALUMINUM 27 FT 2 IN W/HANDHOLE, TWIN	2005674	\$1,677.33	10	41.7%	698.89
					-
					-
Weighted Average Pole Cost					\$ 1,504.61
FOUNDATION, ANCHOR					
FOUNDATION, ANCHOR TYPE FOR ST LITE 15 I	2005321	451.32	9	81.8%	369.26
FOUNDATION, ANCHOR SCREW 15 IN, GALV	2003631	187.61	1	9.1%	17.06
COVERS, STREET LIGHT POLE BASE	2005384	55.28	1	9.1%	5.03
				100%	\$ 391.34
% Foundation					
BASE					
BASE, TRANSFORMER CAST ALUM 17 IN HIGH W	2005322	651.03	1	50.0%	325.52
BASE, 37FT	2005323	414.66	1	50.0%	207.33
				0%	\$ -
% Base					
Foundation and Base Average Cost					\$ 391.34
CABLE					
					based on OH/UG
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG	2004361	0.47	0.0		\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	176.0		\$103.84
					\$103.84
CABLE HARDWARE w/ P&B Cable (UG only)					
Underground Cable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	40		\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4"x1/8"	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
Cable Hardware Weighted Average Cost				100%	\$88.83
% UG					
GROUNDING (1 every 1/4 mile) - UG Circuits					Spans per 1/4 mi = 8
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS LEI	2077980	11.88	2	0.13	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREADLESS 1/2"	2077939	4.49	1		\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		\$1.66
Grounding Average Cost				100%	\$3.76
% UG					
CONDUIT					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	\$0.72	170		\$122.40
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRINTED SEQ.	2007414	\$0.03	174		\$5.22
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	\$1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	\$0.60	9		\$5.58
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	\$6.06	0.6		\$3.35
SPLICE, GEL CAP 600V USED WITH #10, #6, #4	2005073	\$20.90	2		\$41.80
Conduit Average Cost				100%	\$180.87
% UG					
MATERIAL HANDLING @ 12.22% of material cost					\$ 277.76
<b>TOTAL MATERIAL COST</b>					<b>\$ 2,551.02</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>	
INSTALL POLE					
Haul Set Pole	LN1	\$ 204.85	0.82	\$	168.60
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$	-
Trench & Install Conduit	CC2	\$ 146.32	6.41	\$	937.93
Pull UG Conductor (includes install HH & terminate @ secondary)	CC1	\$ 159.85	1.51	\$	240.68
Engineering Office	E/O	\$ 77.56	0.30	\$	23.25
Engineering Field	E/F	\$ 93.30	0.19	\$	18.00
				\$	1,388.46
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 1,388.46</b>
<b>TOTAL COST</b>					<b>\$ 3,939.48</b>

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20210034-EI  
COST OF SERVICE STUDY  
WITNESS: ASHBURN  
PAGE 186 OF 393  
FILED: 04/9/2021**

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or</u>		<u>Cost</u>
			<u>%</u>		
POLE					
POLE, ALUMINUM 37 FT 2 IN QUAD-MTG, PREM L	2005673	\$1,938.68	3	30.0%	581.60
POLE, ALUMINUM 37 FT 2 IN, TWIN BRACKET,	2005675	\$1,285.73	7	70.0%	900.01
					-
Weighted Average Pole Cost					\$ 1,481.62
FOUNDATION, ANCHOR					
FOUNDATION, ANCHOR TYPE FOR ST LITE 15 I	2005321	451.32	9	81.8%	369.26
FOUNDATION, ANCHOR SCREW 15 IN, GALV	2003631	187.61	1	9.1%	17.06
COVERS, STREET LIGHT POLE BASE	2005384	55.28	1	9.1%	5.03
				100%	\$ 391.34
% Foundation					
BASE					
BASE, TRANSFORMER CAST ALUM 17 IN HIGH W	2005322	651.03	1	50.0%	325.52
BASE, 37FT	2005323	414.66	1	50.0%	207.33
				0%	\$ -
% Base					
Foundation and Base Average Cost					\$ 391.34
CABLE					
					<i>based on OH/UG</i>
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG	2004361	0.47		0.0	\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59		180.0	\$106.20
					\$106.20
CABLE HARDWARE w/ P&B Cable (UG only)					
UndergroundCable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	40		\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4"x1/8"	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
Cable Hardware Weighted Average Cost				100%	\$88.83
% UG					
GROUNDING (1 every 1/4 mile) - UG Circuits					
			8	0.13	
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS LENGTH 10F	2077980	11.88	2		\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREADLESS 1/2"	2077939	4.49	1		\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		\$1.66
Grounding Average Cost				100%	\$3.85
% UG					
CONDUIT					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	\$0.72	174		\$125.28
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRINTED SEQ.	2007414	\$0.03	178		\$5.34
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	\$1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	\$0.60	10		\$5.70
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	\$6.06	0.6		\$3.43
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	\$20.90	2		\$41.80
Conduit Average Cost				100%	\$184.07
% UG					
MATERIAL HANDLING @ 12.22% of material cost					\$ 275.64
<b>TOTAL MATERIAL COST</b>					<b>\$ 2,531.56</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>		<b>Cost</b>
INSTALL POLE					
Haul Set Pole	LN1	\$ 204.85	0.82		\$ 168.60
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00		\$ -
Trench & Install Conduit	CC2	\$ 146.32	6.56		\$ 959.99
Pull UG Conductor (includes install HH & terminate @ secondary)	CC1	\$ 159.85	1.54		\$ 246.15
Engineering Office	E/O	\$ 77.56	0.30		\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19		\$ 18.00
					\$ 1,415.99
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 1,415.99</b>
<b>TOTAL COST</b>					<b>\$ 3,947.55</b>

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20210034-EI  
COST OF SERVICE STUDY  
WITNESS: ASHBURN  
PAGE 187 OF 393  
FILED: 04/9/2021**

<b>MATERIAL</b>	<b>Stock #</b>	<b>Unit Cost</b>	<b># of Units and/or %</b>	<b>Cost</b>
POLE				
POLE, WATERSIDE, AL, 38.6FT, DB, HH, BLK	2127281	\$1,339.59	47 100.0%	1,339.59
POLE, LIGHTING, AEL WHITE, 30' AG, METRO	2129437	\$0.00	0 0.0%	-
				-
				-
Weighted Average Pole Cost				<b>\$ 1,339.59</b>
FOUNDATION, ANCHOR				
FOUNDATION, ANCHOR TYPE FOR ST LITE 15 I	2005321	451.32	9 81.8%	369.26
FOUNDATION, ANCHOR SCREW 15 IN, GALV	2003631	187.61	1 9.1%	17.06
COVERS, STREET LIGHT POLE BASE	2005384	55.28	1 9.1%	5.03
			0%	\$ -
% Foundation				
BASE				
BASE, TRANSFORMER CAST ALUM 17 IN HIGH W	2005322	651.03	1 50.0%	325.52
BASE, 37FT	2005323	414.66	1 50.0%	207.33
			0%	\$ -
% Base				
Foundation and Base Average Cost				<b>\$ -</b>
BRACKET & ACCESSORY - Weighted Avg Cost				
BRACKET, 12FT MAST ARM, BLK	2127282	260.63	1 1.8%	4.57
BRACKET, 10FT MAST ARM, BLK	2127283	246.54	1 1.8%	4.33
BRACKET, 8FT MAST ARM, BLK	2127284	218.37	1 1.8%	3.83
BRACKET, 6FT MAST ARM, BLK	2127285	177.91	7 12.3%	21.85
BRACKET, 4FT MAST ARM, BLK	2127286	194.99	45 78.9%	153.94
BRACKET, BANNER ARM, SET OF 2, BLK	2127287	211.10	2 3.5%	7.41
Weighted Average Bracket Cost				<b>\$ 195.92</b>
CABLE				
				<i>based on OH/UG</i>
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG	2004361	0.47	0.0	\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	129.0	\$76.11
				<b>\$76.11</b>
CABLE HARDWARE w/ P&B Cable (UG only)				
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	40	\$23.60
FUSE, CTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4"x1/8"	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
Cable Hardware Weighted Average Cost			100%	<b>\$88.83</b>
% UG				
GROUNDING (1 every 1/4 mile) - UG Circuits				
				<i>Spans per 1/4 mi =</i>
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS LENGTH 10F	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREADLESS 1/2"	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	<b>\$2.70</b>
% UG				
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	\$0.72	123	\$88.56
TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRINTED SEQ.	2007414	\$0.03	127	\$3.81
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	\$1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	\$0.60	7	\$4.17
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	\$6.06	0.4	\$2.40
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	\$20.90	2	\$41.80
Conduit Average Cost			100%	<b>\$143.26</b>
% UG				
MATERIAL HANDLING @ 12.22% of material cost				<b>\$ 201.67</b>
<b>TOTAL MATERIAL COST</b>				<b>\$ 2,048.08</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.82	\$ 168.60
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	4.64	\$ 678.62
Pull UG Conductor (includes install HH & terminate @ secondary)	CC1	\$ 159.85	1.10	\$ 176.40
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				<b>\$ 1,064.88</b>
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 1,064.88</b>
<b>TOTAL COST</b>				<b>\$ 3,112.96</b>



<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
POLE					
POLE, CONCRETE 35 FT TYPE 4	2002839	585.73	1	0.1%	0.77
POLE, CONCRETE 35 FT TYPE 1 W/2-3/8" OD	2002841	372.59	112	14.8%	55.05
POLE, CONCRETE 35 FT TYPE 1	2002845	371.46	636	83.9%	311.67
POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE	2002846	443.01	9	1.2%	5.26
					-
					-
Weighted Average Pole Cost			100.00%		\$ 372.76
CABLE					
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG	2004361	0.47	0.0		\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	152.0		\$89.68
					\$ 89.68
CABLE HARDWARE w/ P&B Cable (UG only)					
Cable Hardware concrete					
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19	1		120.19
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75			-
			100%		\$ 120.19
Overhead Cable Hardware concrete					
HOLDER, WIRE SERVICE GALV FULL THD WOOD SCREW #22 X 3	2004052	4.09	1.0		4.09
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 DIE2 IN.	2003523	0.37	1.0		0.37
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR AL #4 STR 6-	2077844	0.34	1.0		0.34
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		1.66
			100%		\$ 6.46
			0%		\$ -
Underground Cable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	40		\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$7.45
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1		\$17.93
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4" x 3-3/4"x1/8"	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
			100%		\$ 88.83
Cable Hardware Weighted Average Cost					\$ 209.02

GROUNDING (1 every 1/4 mile) - UG Circuits	Spans per 1/4 mi =	9	0.11	
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS LENGTH 10FT	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER, THREADLESS 1/2"	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost	% UG		100%	\$3.22
<b>CONDUIT</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	146	\$105.12
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRINTED SEQ.	2007414	0.03	150	\$4.50
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	8	\$4.86
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	6.06	0.5	\$2.87
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$161.67
<b>Wood</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
Conduit Average Cost	% Wood		0%	\$ -
	% UG		100%	\$161.67
MATERIAL HANDLING @ 12.22% of material cost				\$102.19
<b>TOTAL MATERIAL COST</b>				<b>\$ 938.54</b>
<b>LABOR/VEHICLE</b>				
<b>INSTALL POLE</b>				
Haul Set Pole	LN1	\$ 204.85	0.87	\$ 178.84
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	5.51	\$ 805.51
Pull UG Conductor (includes install HH & terminate @ secondary)	CC1	\$ 159.85	1.30	\$ 207.86
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 1,233.47
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 1,233.47</b>
<b>TOTAL COST</b>				<b>\$ 2,172.00</b>

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, CONCRETE 40 FT TYPE 3	2002849	580.94	6 16.2%	94.21
POLE, CONCRETE 45 FT PRESTRESSED TYPE II	2002895	708.61	# 27.0%	191.52
POLE, CONCRETE 45 FT TYPE III W/2-3/8" O	2002896	618.40	# 48.6%	300.84
POLE, CONCRETE, 45 FT TYPE III W/2-3/8" OD TENON,	2002900	768.01	1 2.7%	20.76
POLE, CONCRETE 45 FT TYPE IIISP	2113986	660.80	2 5.4%	35.72
				-
Weighted Average Pole Cost			100.00%	\$ 643.04
CABLE <i>based on OH/UG</i>				
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4,	2004361	0.47	146.0	\$68.62
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/0	2004166	0.59	0.0	\$0.00
				\$ 68.62
CABLE HARDWARE w/ P&B Cable (UG only)				
Cable Hardware concrete				
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19	1	120.19
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75		-
<i>% Concrete</i>			100%	\$ 120.19
Overhead Cable Hardware concrete				
HOLDER, WIRE SERVICE GALV FULL THD WOOD SC	2004052	4.09	1.0	4.09
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	0.37	1.0	0.37
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR	2077844	0.34	1.0	0.34
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	1.66
<i>% Concrete</i>			100%	\$ 6.46
<i>% OH</i>			100%	\$ 6.46
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/0	2004166	0.59	40	\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TI	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4" x 3/4"	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
<i>% UG</i>			0%	\$ -
Cable Hardware Weighted Average Cost				\$ 126.65

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>		10	0.10	
TAPE 3/4" VINYL PLASTIC TAPE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THRI	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost	% UG		0%	\$0.00
<b>CONDUIT</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TI	2004489	0.72	4	\$2.88
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRIN	2007414	0.03	8	\$0.24
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	1	\$0.60
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.0	\$0.00
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$48.04
<b>Wood</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TI	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost	% Wood		0%	\$0.00
	% UG		0%	\$0.00
MATERIAL HANDLING @ 12.22% of material cost				\$102.43
<b>TOTAL MATERIAL COST</b>				<b>\$ 940.74</b>
<b>LABOR/VEHICLE</b>				
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.54	\$ 109.65
Run OH Conductor (includes terminate @ secondar	LN1	\$ 204.85	0.87	\$ 178.68
Trench & Install Conduit	CC2	\$ 146.32	0.00	\$ -
Pull UG Conductor (includes install HH & terminate	CC1	\$ 159.85	0.00	\$ -
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 329.58
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 329.58</b>
<b>TOTAL COST</b>				<b>\$ 1,270.33</b>

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
POLE					
POLE, CONCRETE 30 FT TYPE II, W/ 2-3/8" OD POLE T	2002818	337.47	1	7.1%	24.11
POLE, CONCRETE 25 FT TYPE I, WITH 2-3/8"	2002831	374.10	5	35.7%	133.61
POLE, CONCRETE 30 FT TYPE 1	2002838	333.27	6	42.9%	142.83
POLE, CONCRETE 30 FT TYPE I W/2-3/8" OD	2002840	627.02	2	14.3%	89.57
					-
					-
Weighted Average Pole Cost			100.00%		\$ 390.12
CABLE <i>based on OH/UG</i>					
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 .	2004361	0.47	0.0		\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/0	2004166	0.59	156.0		\$92.04
					\$ 92.04
CABLE HARDWARE w/ P&B Cable (UG only)					
Cable Hardware concrete					
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19	1		120.19
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75			-
<i>% Concrete</i>			100%		\$ 120.19
Overhead Cable Hardware concrete					
HOLDER, WIRE SERVICE GALV FULL THD WOOD SC	2004052	4.09	1.0		4.09
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	0.37	1.0		0.37
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR	2077844	0.34	1.0		0.34
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		1.66
<i>% Concrete</i>			100%		\$ 6.46
<i>% OH</i>			0%		\$ -
Underground Cable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/0	2004166	0.59	40		\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TI	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4" x 3/4"	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
<i>% UG</i>			100%		\$ 88.83
Cable Hardware Weighted Average Cost					\$ 209.02

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>		9	0.11	
TAPE 3/4" VINYL PLASTIC TAPE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THRI	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost	% UG		100%	\$3.31
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TI	2004489	0.72	150	\$108.00
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRIN	2007414	0.03	154	\$4.62
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	8	\$4.98
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.5	\$2.95
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$164.87
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TI	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost	% Wood		100%	\$164.87
	% UG			
MATERIAL HANDLING @ 12.22% of material cost				\$105.00
<b>TOTAL MATERIAL COST</b>				<b>\$ 964.36</b>
<b>LABOR/VEHICLE</b>				
	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.87	\$ 178.84
Run OH Conductor (includes terminate @ secondar	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	5.66	\$ 827.58
Pull UG Conductor (includes install HH & terminate	CC1	\$ 159.85	1.33	\$ 213.33
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 1,261.00
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 1,261.00</b>
<b>TOTAL COST</b>				<b>\$ 2,225.36</b>

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, CONCRETE 40 FT TYPE 3	2002849	580.94	6 15.8%	91.73
POLE, CONCRETE 45 FT PRESTRESSED TYPE II	2002895	708.61	10 26.3%	186.48
POLE, CONCRETE 45 FT TYPE III W/2-3/8" O	2002896	618.40	18 47.4%	292.93
POLE, CONCRETE, 45 FT TYPE III W/2-3/8" OD TENON	2002900	768.01	1 2.6%	20.21
POLE, CONCRETE 45 FT SPUN DIRECT BURIAL	2002901	1267.24	1 2.6%	33.35
POLE, CONCRETE 45 FT TYPE IIISP	2113986	660.80	2 5.3%	34.78
Weighted Average Pole Cost			100.00%	\$ 659.47
CABLE <i>based on OH/UG</i>				
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4	2004361	0.47	0.0	\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2	2004166	0.59	152.0	\$89.68
				\$ 89.68
CABLE HARDWARE w/ P&B Cable (UG only)				
Cable Hardware concrete				
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19	1	120.19
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75		-
<i>% Concrete</i>			100%	\$ 120.19
Overhead Cable Hardware concrete				
HOLDER, WIRE SERVICE GALV FULL THD WOOD SK	2004052	4.09	1.0	4.09
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	0.37	1.0	0.37
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 ST	2077844	0.34	1.0	0.34
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	1.66
<i>% Concrete</i>			100%	\$ 6.46
<i>% OH</i>			0%	\$ -
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2	2004166	0.59	40	\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4'	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
<i>% UG</i>			100%	\$ 88.83
Cable Hardware Weighted Average Cost				\$ 209.02

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>		9	0.11	
TAPE 3/4" VINYL PLASTIC TAPE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THF	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost	% UG		100%	\$3.22
<b>CONDUIT</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING	2004489	0.72	146	\$105.12
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRI	2007414	0.03	150	\$4.50
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	8	\$4.86
CEMENT, PVC CLEAR FAST DRY QUART W/DA	2007227	6.06	0.5	\$2.87
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$161.67
<b>Wood</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost	% Wood		100%	\$161.67
	% UG			
MATERIAL HANDLING @ 12.22% of material cost				\$137.22
<b>TOTAL MATERIAL COST</b>				<b>\$ 1,260.28</b>
<b>LABOR/VEHICLE</b>				
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.87	\$ 178.84
Run OH Conductor (includes terminate @ second LN1		\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	5.51	\$ 805.51
Pull UG Conductor (includes install HH & terminate	CC1	\$ 159.85	1.30	\$ 207.86
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 1,233.47
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 1,233.47</b>
<b>TOTAL COST</b>				<b>\$ 2,493.74</b>



<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
POLE					
POLE, CONCRETE 35 FT TYPE 4	2002839	585.73	1	0.1%	0.77
POLE, CONCRETE 35 FT TYPE 1 W/2-3/8" OD	2002841	372.59	112	14.8%	55.05
POLE, CONCRETE 35 FT TYPE 1	2002845	371.46	636	83.9%	311.67
POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE	2002846	443.01	9	1.2%	5.26
					-
					-
Weighted Average Pole Cost			100.00%		\$ 372.76
CABLE <i>based on OH/UG</i>					
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 .	2004361	0.47	0.0		\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/0	2004166	0.59	138.0		\$81.42
					\$ 81.42
CABLE HARDWARE w/ P&B Cable (UG only)					
Cable Hardware concrete					
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19	1		120.19
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75			-
<i>% Concrete</i>			100%		\$ 120.19
Overhead Cable Hardware concrete					
HOLDER, WIRE SERVICE GALV FULL THD WOOD SC	2004052	4.09	1.0		4.09
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	0.37	1.0		0.37
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR	2077844	0.34	1.0		0.34
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		1.66
<i>% Concrete</i>			100%		\$ 6.46
<i>% OH</i>			0%		\$ -
Underground Cable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/0	2004166	0.59	40		\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TI	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4" x 3/4"	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
<i>% UG</i>			100%		\$ 88.83
Cable Hardware Weighted Average Cost					\$ 209.02

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>		10	0.10	
TAPE 3/4" VINYL PLASTIC TAPE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THRI	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost	% UG		100%	\$2.90
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TI	2004489	0.72	132	\$95.04
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRIN	2007414	0.03	136	\$4.08
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	7	\$4.44
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.4	\$2.59
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$150.47
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TI	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost	% Wood		100%	\$150.47
	% UG			
MATERIAL HANDLING @ 12.22% of material cost				\$99.77
<b>TOTAL MATERIAL COST</b>				<b>\$ 916.34</b>
<b>LABOR/VEHICLE</b>				
	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.87	\$ 178.84
Run OH Conductor (includes terminate @ secondar	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	4.98	\$ 728.27
Pull UG Conductor (includes install HH & terminate	CC1	\$ 159.85	1.18	\$ 188.71
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 1,137.08
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 1,137.08</b>
<b>TOTAL COST</b>				<b>\$ 2,053.42</b>

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, CONCRETE 35 FT TYPE 4	2002839	585.73	1 0.1%	0.77
POLE, CONCRETE 35 FT TYPE 1 W/2-3/8" OD	2002841	372.59	112 14.8%	54.98
POLE, CONCRETE 35 FT TYPE 1	2002845	371.46	636 83.8%	311.26
POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE	2002846	443.01	9 1.2%	5.25
POLE, GALVANIZED 26 FT 3/4 IN TRANSF BAS	2005683	392.27	1 0.1%	0.52
				-
Weighted Average Pole Cost				<b>\$ 372.78</b>
CABLE <i>based on OH/UG</i>				
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 A	2004361	0.47	0.0	\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C,	2004166	0.59	147.0	\$86.73
				<b>\$ 86.73</b>
CABLE HARDWARE w/ P&B Cable (UG only)				
Cable Hardware concrete				
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19	1	120.19
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75		-
<i>% Concrete</i>			100%	<b>\$ 120.19</b>
Overhead Cable Hardware concrete				
HOLDER, WIRE SERVICE GALV FULL THD WOOD SCR	2004052	4.09	1.0	4.09
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 D	2003523	0.37	1.0	0.37
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR	2077844	0.34	1.0	0.34
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	1.66
<i>% Concrete</i>			100%	<b>\$ 6.46</b>
<i>% OH</i>			0%	<b>\$ -</b>
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C,	2004166	0.59	40	\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TU	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4" x	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
<i>% UG</i>			100%	<b>\$ 88.83</b>
Cable Hardware Weighted Average Cost				<b>\$ 209.02</b>

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>		10	0.10	
TAPE 3/4" VINYL PLASTIC TAPE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THRE.	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost	% UG		100%	\$3.10
<b>CONDUIT</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	141	\$101.52
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRINT	2007414	0.03	145	\$4.35
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 II	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	8	\$4.71
CEMENT, PVC CLEAR FAST DRY QUART W/DAUB	2007227	6.06	0.5	\$2.77
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$157.67
<b>Wood</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			0%	\$ -
Conduit Average Cost	% Wood			
	% UG		100%	\$157.67
MATERIAL HANDLING @ 12.22% of material cost				\$101.33
<b>TOTAL MATERIAL COST</b>				<b>\$ 930.64</b>
<b>LABOR/VEHICLE</b>				
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
<b>INSTALL POLE</b>				
Haul Set Pole	LN1	\$ 204.85	0.87	\$ 178.84
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	5.32	\$ 777.93
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	1.26	\$ 201.02
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 1,199.04
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 1,199.04</b>
<b>TOTAL COST</b>				<b>\$ 2,129.68</b>

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, CONCRETE 35 FT TYPE 4	2002839	585.73	1 0.1%	0.77
POLE, CONCRETE 35 FT TYPE 1 W/2-3/8" OD	2002841	372.59	112 14.8%	54.98
POLE, CONCRETE 35 FT TYPE 1	2002845	371.46	636 83.8%	311.26
POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE	2002846	443.01	9 1.2%	5.25
POLE, GALVANIZED 28 FT 6 IN ANCHOR BASE	2005684	251.34	1 0.1%	0.33
				-
Weighted Average Pole Cost			100.00%	\$ 372.60
CABLE <i>based on OH/UG</i>				
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 A	2004361	0.47	0.0	\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	183.0	\$107.97
				\$ 107.97
CABLE HARDWARE w/ P&B Cable (UG only)				
Cable Hardware concrete				
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19	1	120.19
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75		-
<i>% Concrete</i>			100%	\$ 120.19
Overhead Cable Hardware concrete				
HOLDER, WIRE SERVICE GALV FULL THD WOOD SCR	2004052	4.09	1.0	4.09
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 D	2003523	0.37	1.0	0.37
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR	2077844	0.34	1.0	0.34
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	1.66
<i>% Concrete</i>			100%	\$ 6.46
<i>% OH</i>			0%	\$ -
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C	2004166	0.59	40	\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TU	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4" x	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
<i>% UG</i>			100%	\$ 88.83
Cable Hardware Weighted Average Cost				\$ 209.02

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>		8	0.13	
TAPE 3/4" VINYL PLASTIC TAPE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THRE	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost	% UG		100%	\$3.92
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	177	\$127.44
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRINT	2007414	0.03	181	\$5.43
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 I	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	10	\$5.79
CEMENT, PVC CLEAR FAST DRY QUART W/DAUB	2007227	6.06	0.6	\$3.49
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$186.47
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TE	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
	% Wood			\$ -
Conduit Average Cost	% UG		100%	\$186.47
MATERIAL HANDLING @ 12.22% of material cost				\$107.52
<b>TOTAL MATERIAL COST</b>				<b>\$ 987.51</b>
<b>LABOR/VEHICLE</b>				
	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>
INSTALL POLE				
Haul Set Pole	LN1	\$ 204.85	0.87	\$ 178.84
Run OH Conductor (includes terminate @ secondary	LN1	\$ 204.85	0.00	\$ -
Trench & Install Conduit	CC2	\$ 146.32	6.67	\$ 976.55
Pull UG Conductor (includes install HH & terminate @	CC1	\$ 159.85	1.57	\$ 250.25
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00
				\$ 1,446.89
<b>TOTAL LABOR/VEHICLE</b>				<b>\$ 1,446.89</b>
<b>TOTAL COST</b>				<b>\$ 2,434.40</b>

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>		<u>Cost</u>
POLE					
POLE, CONCRETE 35 FT TYPE 4	2002839	585.73	1	0.1%	0.77
POLE, CONCRETE 35 FT TYPE 1 W/2-3/8" OD	2002841	372.59	112	14.8%	55.05
POLE, CONCRETE 35 FT TYPE 1	2002845	371.46	636	83.9%	311.67
POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE	2002846	443.01	9	1.2%	5.26
					-
					-
Weighted Average Pole Cost				100.00%	\$ 372.76
CABLE <i>based on OH/UG</i>					
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG	2004361	0.47		139.0	\$65.33
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG	2004166	0.59		0.0	\$0.00
					\$ 65.33
CABLE HARDWARE w/ P&B Cable (UG only)					
Cable Hardware concrete					
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19	1		120.19
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75			-
<i>% Concrete</i>				100%	\$ 120.19
Overhead Cable Hardware concrete					
HOLDER, WIRE SERVICE GALV FULL THD WOOD SCREW #22	2004052	4.09	1.0		4.09
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 DIE2 IN.	2003523	0.37	1.0		0.37
CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR AL #4 ST	2077844	0.34	1.0		0.34
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		1.66
<i>% Concrete</i>				100%	\$ 6.46
<i>% OH</i>				100%	\$ 6.46
Underground Cable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG	2004166	0.59	40		\$23.60
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4'x1/	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
<i>% UG</i>				0%	\$ -
Cable Hardware Weighted Average Cost					\$ 126.65

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>		10		0.10	
TAPE 3/4" VINYL PLASTIC TAPE	2077980	11.88		2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THREADLESS	2077939	4.49		1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66		1	\$1.66
Grounding Average Cost			% UG	0%	\$0.00
<b>CONDUIT</b>					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72		4	\$2.88
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRINTED SEC	2007414	0.03		8	\$0.24
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	1.26		2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60		1	\$0.60
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	6.06		0.0	\$0.00
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90		2	\$41.80
					\$48.04
<b>Wood</b>					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72		35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67		2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04		4	0.16
			% Wood	0%	\$ -
Conduit Average Cost			% UG	0%	\$0.00
MATERIAL HANDLING @ 12.22% of material cost					\$69.00
<b>TOTAL MATERIAL COST</b>					<b>\$ 633.74</b>
<b>LABOR/VEHICLE</b>					
	<b>Crew Type</b>	<b>Unit Cost</b>		<b># of Units</b>	<b>Cost</b>
<b>INSTALL POLE</b>					
Haul Set Pole	LN1	\$ 204.85		0.54	\$ 109.65
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85		0.83	\$ 170.11
Trench & Install Conduit	CC2	\$ 146.32		0.00	\$ -
Pull UG Conductor (includes install HH & terminate @ second)	CC1	\$ 159.85		0.00	\$ -
Engineering Office	E/O	\$ 77.56		0.30	\$ 23.25
Engineering Field	E/F	\$ 93.30		0.19	\$ 18.00
					\$ 321.02
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 321.02</b>
<b>TOTAL COST</b>					<b>\$ 954.76</b>



<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE				
POLE, WOOD 30 FT CLASS 6 CCA TREATED NO CUT GAIN	2002836	84.78	1 100.0%	84.78
				-
				-
				-
				-
Weighted Average Pole Cost			100.00%	\$ 84.78
CABLE				
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG	2004361	0.47	125.0	\$58.75
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	0.0	\$0.00
				\$ 58.75
CABLE HARDWARE w/ P&B Cable (UG only)				
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 DIE2 IN.	2003523	0.37	1	0.37
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	1.66
				\$ 2.03
Cable Hardware concrete				
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75	1	109.75
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19		-
	% Concrete		0%	\$ -
Overhead Cable Hardware concrete				
blank				-
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	1.66
	% Concrete		0%	\$ -
	% OH		100%	\$ -
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	2004166	0.59	40	\$23.60
CONNECTOR, VICE CU #4 STR	2077930	2.03	1	\$2.03
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
CONDUIT, PVC 2 IN 20 FT BELL END	2004488	0.85	40	\$34.00
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	1	\$0.60
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	6.06	2	\$12.12
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4" x 3-3/4"x1/8"	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
	% UG		0%	\$ -
Cable Hardware Weighted Average Cost				\$ 2.03

GROUNDING (1 every 1/4 mile) - UG Circuits			11	0.09	
ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS LENGTH 10FT	2077980	11.88	2		\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THREADLESS 1/2"	2077939	4.49	1		\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		\$1.66
Grounding Average Cost				0%	\$0.00
CONDUIT					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	4		\$2.88
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRINTED SEQ.	2007414	0.03	8		\$0.24
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	2004511	1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	1		\$0.60
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2007227	6.06	0.0		\$0.00
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2		\$41.80
					\$48.04
Wood					
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	2004489	0.72	35		\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2		\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4		0.16
Conduit Average Cost				100%	\$ 26.70
				0%	\$0.00
MATERIAL HANDLING @ 12.22% of material cost					
					\$ 17.79

<b>TOTAL MATERIAL COST</b>					<b>\$ 163.35</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>	
<b>INSTALL POLE</b>					
Haul Set Pole	LN1	\$ 204.85	0.54	\$	109.65
Run OH Conductor (includes terminate @ secondary)	LN1	\$ 204.85	0.75	\$	152.98
Trench & Install Conduit	CC2	\$ 146.32	0.00	\$	-
Pull UG Conductor (includes install HH & terminate @ secondary)	CC1	\$ 159.85	0.00	\$	-
Engineering Office	E/O	\$ 77.56	0.30	\$	23.25
Engineering Field	E/F	\$ 93.30	0.19	\$	18.00
				\$	<b>303.88</b>
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 303.88</b>
<b>TOTAL COST</b>					<b>\$ 467.23</b>

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or</u>		<u>Cost</u>
			<u>%</u>		
POLE					
POLE, WOOD, 45 FT, CLASS 2, PENTA TREATE	2002827	562.76	1	3.7%	20.84
POLE, WOOD, 40 FT CLASS 2, PENTA TREATED	2002828	519.96	1	3.7%	19.26
POLE, WOOD, 40 FT CLASS 4, CCA TREATED.	2002847	193.90	6	22.2%	43.09
POLE, WOOD, 40FT CLASS 2, CCA TREATED	2002857	272.68	4	14.8%	40.40
POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	2002858	323.52	6	22.2%	71.89
POLE, WOOD, 45 FT CLASS 4, CCA TREATED.	2002859	236.36	1	3.7%	8.75
POLE, WOOD, 45FT CLASS 3, CCA TREATED	2002860	275.05	8	29.6%	81.50
Weighted Average Pole Cost			100.00%		\$ 285.73
CABLE					
<i>based on OH/UG</i>					
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4	2004361	0.47	146.0		\$68.62
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/	2004166	0.59	0.0		\$0.00
					\$ 68.62
CABLE HARDWARE w/ P&B Cable (UG only)					
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	0.37	1		0.37
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		1.66
					\$ 2.03
Cable Hardware concrete					
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75	1		109.75
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19			-
<i>% Concrete</i>			0%		\$ -
Overhead Cable Hardware concrete					
<i>blank</i>					
Clamp, Service AL #4 - #2 STR	2077906	1.66	1		1.66
<i>% Concrete</i>			0%		\$ -
<i>% OH</i>			100%		\$ -
Underground Cable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/	2004166	0.59	40		\$23.60
CONNECTOR, VICE CU #4 STR	2077930	2.03	1		\$2.03
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
CONDUIT, PVC 2 IN 20 FT BELL END	2004488	0.85	40		\$34.00
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	1		\$0.60
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	2		\$12.12
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ T	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4"	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
<i>% UG</i>			0%		\$ -
Cable Hardware Weighted Average Cost					\$ -

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>		10	0.10	
ROD, GROUND, SECTIONAL, COPPER BONDED, THRE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THR	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			0%	\$0.00
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	4	\$2.88
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRIM	2007414	0.03	8	\$0.24
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	1	\$0.60
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.0	\$0.00
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$48.04
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			100%	\$ 26.70
Conduit Average Cost			0%	\$0.00
MATERIAL HANDLING @ 12.22% of material cost				\$ 43.30

<b>TOTAL MATERIAL COST</b>					<b>\$ 397.65</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>	
INSTALL POLE					
Haul Set Pole	LN1	\$ 204.85	0.54	\$	109.65
Run OH Conductor (includes terminate @ seconda	LN1	\$ 204.85	0.87	\$	178.68
Trench & Install Conduit	CC2	\$ 146.32	0.00	\$	-
Pull UG Conductor (includes install HH & terminate	CC1	\$ 159.85	0.00	\$	-
Engineering Office	E/O	\$ 77.56	0.30	\$	23.25
Engineering Field	E/F	\$ 93.30	0.19	\$	18.00
				\$	<b>329.58</b>
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 329.58</b>
<b>TOTAL COST</b>					<b>\$ 727.23</b>

MATERIAL	Stock #	Unit Cost	# of Units and/or		Cost
				%	
POLE					
POLE, WOOD,30 FT CLASS 6 PENTA TREATED, NO CU	2002830	177.72	1	12.5%	22.22
POLE, WOOD 30 FT CLASS 6 CCA TREATED NO CU	2002836	84.78	1	12.5%	10.60
POLE, WOOD, 30FT CLASS 4, CCA TREATED	2002837	115.05	6	75.0%	86.29
					-
					-
					-
Weighted Average Pole Cost			100.00%		\$ 119.10
CABLE					
<i>based on OH/UG</i>					
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4	2004361	0.47	120.0		\$56.40
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/	2004166	0.59	0.0		\$0.00
					\$ 56.40
CABLE HARDWARE w/ P&B Cable (UG only)					
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	0.37	1		0.37
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		1.66
					\$ 2.03
<i>Cable Hardware concrete</i>					
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75	1		109.75
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19			-
			0%		\$ -
<i>% Concrete</i>					
<i>Overhead Cable Hardware concrete</i>					
<i>blank</i>					
Clamp, Service AL #4 - #2 STR	2077906	1.66	1		1.66
			0%		\$ -
			100%		\$ -
<i>% OH</i>					
<i>Underground Cable Hardware</i>					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/	2004166	0.59	40		\$23.60
CONNECTOR, VICE CU #4 STR	2077930	2.03	1		\$2.03
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
CONDUIT, PVC 2 IN 20 FT BELL END	2004488	0.85	40		\$34.00
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	1		\$0.60
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	2		\$12.12
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ T	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4"	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
			0%		\$ -
<i>% UG</i>					
Cable Hardware Weighted Average Cost					\$ -

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>	12	0.08		
ROD, GROUND, SECTIONAL, COPPER BONDED, THRE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THR	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost		% UG	0%	\$0.00
CONDUIT				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	4	\$2.88
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRIN	2007414	0.03	8	\$0.24
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	1	\$0.60
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.0	\$0.00
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$48.04
Wood				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			100%	\$ 26.70
Conduit Average Cost		% Wood	0%	\$0.00
		% UG		
MATERIAL HANDLING @ 12.22% of material cost				\$ 21.44



<b>TOTAL MATERIAL COST</b>					<b>\$ 196.94</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>	
INSTALL POLE					
Haul Set Pole	LN1	\$ 204.85	0.54	\$ 109.65	
Run OH Conductor (includes terminate @ seconda	LN1	\$ 204.85	0.72	\$ 146.86	
Trench & Install Conduit	CC2	\$ 146.32	0.00	\$ -	
Pull UG Conductor (includes install HH & terminate	CC1	\$ 159.85	0.00	\$ -	
Engineering Office	E/O	\$ 77.56	0.30	\$ 23.25	
Engineering Field	E/F	\$ 93.30	0.19	\$ 18.00	
				<b>\$ 297.76</b>	
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 297.76</b>
<b>TOTAL COST</b>					<b>\$ 494.71</b>

MATERIAL	Stock #	Unit Cost	# of Units and/or		Cost
				%	
POLE					
POLE, WOOD,35 FT CLASS 6 PENTA TREATED, NO C	2002821	173.23	2	4.9%	8.45
POLE, WOOD 35 FT CLASS 4 PENTA TREATED	2002823	260.27	1	2.4%	6.35
POLE, WOOD, 35 FT, CLASS 4, CCA TREATED.	2002842	141.93	37	90.2%	128.08
POLE, WOOD, 35 FT, CLASS 6, CCA TREATED	2002843	102.78	1	2.4%	2.51
					-
					-
Weighted Average Pole Cost			100.00%		\$ 145.39
CABLE based on OH/UG					
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, .	2004361	0.47	147.0		\$69.09
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2	2004166	0.59	0.0		\$0.00
					\$ 69.09
CABLE HARDWARE w/ P&B Cable (UG only)					
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8"	2003523	0.37	1		0.37
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1		1.66
					\$ 2.03
Cable Hardware concrete					
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75	1		109.75
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19			-
			0%		\$ -
% Concrete					
Overhead Cable Hardware concrete					
blank					-
Clamp, Service AL #4 - #2 STR	2077906	1.66	1		1.66
			0%		\$ -
			100%		\$ -
% OH					
UndergroundCable Hardware					
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2	2004166	0.59	40		\$23.60
CONNECTOR, VICE CU #4 STR	2077930	2.03	1		\$2.03
FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2		\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2		\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1		\$17.93
CONDUIT, PVC 2 IN 20 FT BELL END	2004488	0.85	40		\$34.00
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1,	2004511	1.26	2		\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	1		\$0.60
CEMENT, PVC CLEAR FAST DRY QUART W/DA	2007227	6.06	2		\$12.12
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ	2007362	7.45	1		\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4	2007252	11.85	1		\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1		\$1.32
			0%		\$ -
% UG					
Cable Hardware Weighted Average Cost					\$ -

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>	9	0.11	
ROD, GROUND, SECTIONAL, COPPER BONDED, THF 2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THI 2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2" 2077906	1.66	1	\$1.66
Grounding Average Cost % UG		0%	\$0.00
CONDUIT			
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING 2004489	0.72	4	\$2.88
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PR 2007414	0.03	8	\$0.24
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1. 2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS 2004507	0.60	1	\$0.60
CEMENT, PVC CLEAR FAST DRY QUART W/DA 2007227	6.06	0.0	\$0.00
SPLICE, GEL CAP 600V USED WITH #10,#6,#4 2005073	20.90	2	\$41.80
			\$48.04
Wood			
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING 2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE 2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD, 2000943	0.04	4	0.16
		100%	\$ 26.70
Conduit Average Cost % Wood			\$0.00
		0%	\$0.00
MATERIAL HANDLING @ 12.22% of material cost			\$ 26.21

<b>TOTAL MATERIAL COST</b>					<b>\$ 240.68</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>	
<b>INSTALL POLE</b>					
Haul Set Pole	LN1	\$ 204.85	0.54	\$	109.65
Run OH Conductor (includes terminate @ secon	LN1	\$ 204.85	0.88	\$	179.90
Trench & Install Conduit	CC2	\$ 146.32	0.00	\$	-
Pull UG Conductor (includes install HH & terminat	CC1	\$ 159.85	0.00	\$	-
Engineering Office	E/O	\$ 77.56	0.30	\$	23.25
Engineering Field	E/F	\$ 93.30	0.19	\$	18.00
				\$	<b>330.81</b>
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ 330.81</b>
<b>TOTAL COST</b>					<b>\$ 571.49</b>

<u>MATERIAL</u>	<u>Stock #</u>	<u>Unit Cost</u>	<u># of Units and/or %</u>	<u>Cost</u>
POLE #N/A		\$0.00	1 100.0%	-
Weighted Average Pole Cost				100.00% \$ -
CABLE <i>based on OH/UG</i>				
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4	2004361	0.47	0.0	\$0.00
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/	2004166	0.59	151.0	\$89.09
				\$ 89.09
CABLE HARDWARE w/ P&B Cable (UG only)				
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8	2003523	0.37	1	0.37
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	1.66
				\$ 2.03
Cable Hardware concrete				
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002816	109.75	1	109.75
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	2002817	120.19		-
% Concrete				\$ -
Overhead Cable Hardware concrete				
<i>blank</i>				-
Clamp, Service AL #4 - #2 STR	2077906	1.66	1	1.66
% Concrete				\$ -
% OH				\$ -
Underground Cable Hardware				
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/	2004166	0.59	40	\$23.60
CONNECTOR, VICE CU #4 STR	2077930	2.03	1	\$2.03
FUSE, CRTRG NON-RNW 30A 600V 1.5 X 13/32	2003261	2.94	2	\$5.88
CONNECTOR, FUSED WATERPROOF URD #6 LINE	2005397	10.40	2	\$20.80
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	2004655	17.93	1	\$17.93
CONDUIT, PVC 2 IN 20 FT BELL END	2004488	0.85	40	\$34.00
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	8	\$4.83
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	2	\$12.12
COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ T	2007362	7.45	1	\$7.45
WATER SEAL, COMPOUND, WATERPROOFING 3-3/4"	2007252	11.85	1	\$11.85
TAPE 3/4" VINYL PLASTIC TAPE	2078106	1.32	1	\$1.32
% UG				\$ 144.33
Cable Hardware Weighted Average Cost				\$ 144.33

GROUNDING (1 every 1/4 mile) - UG Circuits <i>Spans per 1/4 mi =</i>		9	0.11	
ROD, GROUND, SECTIONAL, COPPER BONDED, THRE	2077980	11.88	2	\$23.76
COUPLER, GROUND ROD SECTIONAL, COPPER. THR	2077939	4.49	1	\$4.49
CLAMP, GROUND ROD COPPER 1/2"	2077906	1.66	1	\$1.66
Grounding Average Cost			100%	\$3.19
<b>CONDUIT</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	145	\$104.40
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRIN	2007414	0.03	149	\$4.47
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2	2004511	1.26	2	\$2.52
COUPLING, PVC 2 IN SCH 40 TEMS	2004507	0.60	8	\$4.83
CEMENT, PVC CLEAR FAST DRY QUART W/DAU	2007227	6.06	0.5	\$2.85
SPLICE, GEL CAP 600V USED WITH #10,#6,#4	2005073	20.90	2	\$41.80
				\$160.87
<b>Wood</b>				
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING T	2004489	0.72	35	\$25.20
STRAP, GALV 1 IN 1 HOLE	2004381	0.67	2	\$1.34
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	2000943	0.04	4	0.16
			100%	\$ 26.70
Conduit Average Cost			100%	\$187.57
MATERIAL HANDLING @ 12.22% of material cost				\$ 51.83

<b>TOTAL MATERIAL COST</b>					<b>\$ 476.01</b>
<b>LABOR/VEHICLE</b>	<b>Crew Type</b>	<b>Unit Cost</b>	<b># of Units</b>	<b>Cost</b>	
<b>INSTALL POLE</b>					
Haul Set Pole	LN1	\$ 204.85	0.00	\$	-
Run OH Conductor (includes terminate @ seconda	LN1	\$ 204.85	0.00	\$	-
Trench & Install Conduit	CC2	\$ 146.32	0.00	\$	-
Pull UG Conductor (includes install HH & terminate	CC1	\$ 159.85	0.00	\$	-
Engineering Office	E/O	\$ 77.56	0.00	\$	-
Engineering Field	E/F	\$ 93.30	0.00	\$	-
			0%	\$	-
<b>TOTAL LABOR/VEHICLE</b>					<b>\$ -</b>
<b>TOTAL COST</b>					<b>\$ 476.01</b>

Subtotals by Rate, combining Area, Street, TECO lights. Timed combined w DTD

Rate Code	Wattage	Lamp Type	Fixture Type
468	250	HPS	Flood
478	400	HPS	Flood
509	50	HPS	Post Top (PT)
520	400	MH	Cobra
550	100	HPS	Shoebox
552	400	HPS	Shoebox
554	400	MH	Shoebox
556	400	MH	Flood
558	1,000	MH	Flood
564	175	MH	Shoebox
566	250	HPS	Shoebox
570	100	HPS	Classic PT (Classic, Enh Classic, Promenade)
571	100	HPS	Contemporary PT
572	100	HPS	Colonial PT
573	100	HPS	Salem PT
574	175	MH	General PT
575	175	MH	Salem PT
576	1,000	MH	Shoebox
700	150	MH	Salem PT
701	150	MH	General PT (Classic, Enh. Classic, Colonial)
702	150	MH	Shoebox
703	350	MH	Shoebox
704	350	MH	Cobra
705	350	MH	Flood
800	50	HPS	Cobra
802	70	HPS	Cobra/Nema
803	100	HPS	Cobra/Nema
804	150	HPS	Cobra
805	250	HPS	Cobra
806	400	HPS	Cobra
809	400	HPS	Mongoose
810	70	HPS	Coach PT
820	103 107	LED	Roadway
821	106	LED	Roadway
822	196	LED	Roadway
823	206 213	LED	Roadway
824	67	LED	Post Top
825	99	LED	Post Top
826	202 211	LED	Area-Lighter
827	309 315	LED	Area-Lighter
828	56	LED	Roadway
829	157	LED	Roadway
830	152	LED	Area-Lighter
831	240)	LED	Flood



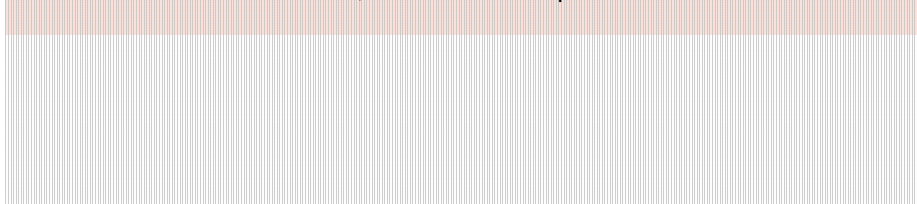
832	363)	LED	Flood
833	245	LED	Mongoose
834	328	LED	Mongoose
835	60	LED	Classic Post Top
836	100	LED	Classic Post Top
912	27	L17	Roadway
914	47	L17	Roadway
921	88	L17	Roadway/Area-Lighter
926	105	L17	Roadway
932	133	L17	Roadway/Area-Lighter
935	143	L17	Roadway
937	145	L17	Roadway
941	182	L17	Roadway
945	247	L17	Roadway
947	330	L17	Area-Lighter
951	199	L17	Flood
953	255	L17	Flood
956	225	L17	Mongoose
958	333	L17	Mongoose
965	30	L17	Granville PT
967	39	L17	Granville PT
968	39	L17	Granville Enhanced PT
971	55	L17	Salem PT
972	60	L17	Granville PT
973	60	L17	Granville Enhanced PT
975	76	L17	Salem PT

SOURCES

<sup>1</sup> from GIS\_L&P\_Count by Rate\_OH&UG\_CustID\_2021\_0207

<sup>2</sup>from Average Span Length from photometric designs by scenario (2017 COSS)

<sup>3</sup>Discussion w DFutch & LIsham, based on their experiences and in their areas. Aver



%RW use for those fixtures that are used for Major R'

<sup>4</sup> Assumption. L17 - 100%PC/ 0%Control Equipment.

<sup>5</sup> Assumption. L17 - Based ratio of HID equivalent, which is based on % installed: UR

New Rate or Long Desc	Initial Lumens	Monthly KWH	Timed Monthly KWH
250W HPS Flood	28,500	105	52
400W HPS Flood	50,000	163	81
50W HPS Post Top - Night Torch	4,000	20	10
400W MH Cobra	32,000	159	79
100W HPS Shoebox	9,500	44	22
400W HPS Shoebox	50,000	163	22
400W MH Shoebox	32,000	159	22
400W MH Flood	32,000	159	22
1000W MH Flood	107,800	383	22
175W MH Shoebox	12,800	74	52
250W HPS Shoebox	28,500	105	81
100W HPS Classic PT (Classic, Enh Classic, Promenade)	9,500	44	79
100W HPS Contemporary PT	9,500	44	79
100W HPS Colonial PT	9,500	44	37
100W HPS Salem PT	9,500	44	37
Promenade)	14,400	74	37
175W MH Salem PT	14,400	74	191
1000W MH Shoebox	107,800	383	191
150W MH Salem PT	12,000	67	34
Promenade)	12,000	67	34
150W MH Shoebox	12,000	67	34
350W MH Shoebox	29,700	138	69
350W MH Cobra	29,700	138	69
350W MH Flood	29,700	138	69
50W HPS Cobra	4,000	20	18
70W HPS Cobra/Nema	6,300	29	19
100W HPS Cobra/Nema	9,500	44	34
150W HPS Cobra/Nema	16,000	66	36
250W HPS Cobra/Nema	28,500	105	12
400W HPS Cobra	50,000	163	17
400W HPS Mongoose	50,000	163	35
70W HPS Coach PT	6,300	29	54
103 107W LED Roadway	7,577	36	10
106W LED Roadway	8,300	37	27
196W LED Roadway	15,300	69	27
206 213W LED Roadway	14,831	72	42
67W LED Post Top	3,974	24	63
99W LED Post Top	6,030	35	43
202 211W LED Area-Lighter	13,620	71	57
309 315W LED Area-Lighter	21,197	108	11
56W LED Roadway	5,155	20	18
157W LED Roadway	15,285	55	10
152W LED Area-Lighter	14,100	53	14
238 (236 & 240)W LED Flood	22,122	83	22

359 (354 & 363)W LED Flood	32,087	126	33
245W LED Mongoose	24,140	86	52
328W LED Mongoose	32,093	115	81
60W LED Classic Post Top	5,176	21	81
100W LED Classic Post Top	7,360	35	14
LED, 27W WATCH LIGHT	2,600	9	5
LED, 47W AUTOBAHN/ AUTOBAHN MICRO	5110 (4k)	16	18
LED, 84W EVOLVE	8,500	31	32
LED, 105W AUTOBAHN	12,414	37	58
LED, 133W AUTOBAHN	15,742	47	35
LED, 143W USSL EATON	16,113	50	45
LED, 145W AUTOBAHN	16,251	51	39
LED, 182W ARCHEON/VERDEON	22,233	64	7
LED, 247W VERDEON	29,533	86	7
LED, 330W EVOLVE/ 327W/ 305W	33,600	116	13
LED, 199W ACP FLOOD 6X6	23,067	70	35
LED, 252W FLOOD, 6X6	33,113	89	45
LED, 225W GALLEON	23,563	79	39
LED, 333W GALLEON	34,937	117	58
LED 26W GRNVIL PT/ 30W LEXINGTON PT	7030	9	5
LED 39W ENH GRNVL PT / 37W	4,990	14	7
LED 39W ENH GRNVL PT/ 37W	4,476	14	7
LED, 55W UTILITY PT	5,240	19	10
LED 60W GRNVIL PT/ 57W	7,076	21	11
LED 60W ENH GRNVL PT/ 57W	6,347	21	11
LED, 76W UTILITY PT	7,188	27	13

aged to get system trend for Relay/PC use	R	
	DFutch	Llsham
% of Parking Lots w Relay?	50%	10%
%OH Major RW wPC?	25%	40%
%UG Major RW wPC?	80%	60%
% all other RW wPC?	10%	50%

Major      all other  
100%      50%

D%, DTD/Timed%, CustID%, Avg Span Length OH/UG, Pole material & access distribution. Use 2017 COSS s

from GIS attribute d

Average Luminaire Cost	Bracket, Bracket Cable, & Hardware	equiv L17 for Remaining HID/LED	Total Inst InSvc OOS PR incl TS	Total L17 post conv	%DTD	%Timed	%OH
			773				94%
			1458				96%
			2				0%
			188				80%
			705				1%
			394				24%
			1433				21%
			629				91%
			951				82%
			0				0%
			740				4%
			3869				0%
			0				0%
			1584				0%
			7901				0%
			297				0%
			421				0%
			963				59%
			61				0%
			3				0%
			4				0%
			79				24%
			38				42%
			17				88%
			5613				97%
			10991				95%
			42218				65%
			9045				84%
			8751				73%
			6936				85%
			204				95%
			2153				0%
			2562				94%
			36				92%
			34				94%
			2168				77%
			3445				0%
			1105				0%
			736				27%
			5924				48%
			1823				93%
			460				65%
			155				43%
			228				82%

			1403				70%
			59				100%
			23				96%
			683				0%
			199				0%
\$ 102.30	\$ 33.42	16604	8707	25311	100%	0%	92%
\$ 147.07	\$ 33.75	44041	59665	103706	100%	0%	67%
\$ 172.67	\$ 34.56	705	1564	2269	100%	0%	1%
\$ 242.14	\$ 33.57	11647	9231	20878	100%	0%	77%
\$ 271.24	\$ 44.81	966	1349	2315	100%	0%	26%
\$ 352.14	\$ 151.70	0	103	103	100%	0%	14%
\$ 242.44	\$ 44.26	8751	11184	19935	100%	0%	65%
\$ 327.74	\$ 44.23	7598	10335	17933	100%	1%	64%
\$ 362.52	\$ 152.18	1433	3062	4495	100%	0%	21%
\$ 881.49	\$ 152.83	7623	1640	9263	99%	1%	48%
\$ 568.25	\$ 59.36	3105	2203	5308	100%	0%	91%
\$ 775.48	\$ 137.24	2354	884	3238	97%	3%	85%
\$ 668.85	\$ 44.17	2891	463	3354	100%	0%	72%
\$ 873.93	\$ 44.04	23	39	62	100%	0%	82%
\$ 311.62	\$ -	2155	2163	4318	100%	0%	0%
\$ 663.33	\$ -	4852	5316	10168	100%	0%	0%
\$ 813.82	\$ -	0	1145	1145	100%	0%	0%
\$ 807.10	\$ -	11346	16307	27653	100%	0%	0%
\$ 679.61	\$ -	199	434	633	100%	0%	0%
\$ 825.72	\$ -	0	6	6	100%	0%	0%
\$ 847.78	\$ -	3171	3077	6248	99%	1%	0%
		129464	138877	268341			57%

relays will be replaced by NLC and SLV calendar

Relay	Avg	PC		
		DFutch	Llsham	Avg
	30% #		90%	70%
	33% #		60%	68%
	70% #		40%	30%
	30% #		50%	70%

span length and photometric info.

data<sup>1,5</sup>

SEE NOTES  
below 3.4

from 2017 p

%UG	%OH	%UG	%CustID (SL) Total	NonCus tID Total	%NLC Controlle d	eq HID for LED PL/RW calc	% PL
6%			0%	100%			100%
4%			0%	100%			100%
100%			0%	100%			AREA
20%			0%	100%			100%
99%			35%	65%			60%
76%			26%	74%			70%
79%			0%	100%			90%
9%			0%	100%			100%
18%			0%	100%			100%
0%			0%	0%			0%
96%			16%	84%			70%
100%			17%	83%			40%
0%			0%	0%			0%
100%			6%	94%			40%
100%			29%	71%			40%
100%			0%	100%			75%
100%			0%	100%			75%
41%			0%	100%			80%
100%			0%	100%			75%
100%			67%	33%			75%
100%			0%	100%			100%
76%			6%	94%			85%
58%			0%	100%			100%
12%			0%	100%			100%
3%			9%	91%			AREA
5%			13%	87%			AREA
35%			53%	47%			25%
16%			25%	75%			50%
27%			36%	64%			25%
15%			9%	91%			60%
5%			20%	80%			50%
100%			32%	68%			AREA
6%			59%	41%		804	50%
8%			22%	78%		804	50%
6%			3%	97%		806	60%
23%			32%	68%		809	50%
100%			0%	100%		573	40%
100%			0%	100%		572	40%
73%			10%	90%		554	90%
52%			12%	88%		554	90%
7%			19%	81%		803	25%
35%			12%	88%		809	50%
57%			0%	100%		806	60%
18%			0%	100%		478	100%

30%			0%	100%		558	100%
0%			44%	56%		809	50%
4%			0%	100%		809	50%
100%			0%	100%		570	40%
100%			11%	89%		575	75%
8%	94%	6%	16%	84%	100%	802	AREA
33%	67%	33%	65%	35%	100%	803	25%
99%	1%	99%	48%	52%	100%	550	60%
23%	82%	18%	33%	67%	100%	804	50%
74%	24%	76%	27%	73%	100%	566	70%
86%	14%	86%	0%	100%	100%	806	60%
35%	69%	31%	42%	58%	100%	805	25%
36%	71%	29%	13%	87%	100%	806	60%
79%	21%	79%	6%	94%	100%	554	90%
52%	48%	52%	4%	96%	100%	576	80%
9%	92%	8%	0%	100%	100%	478	100%
15%	78%	22%	0%	100%	100%	558	100%
28%	76%	24%	30%	70%	100%	809	50%
18%	87%	13%	20%	80%	100%	809	50%
100%	0%	100%	18%	82%	100%	810	AREA
100%	0%	100%	15%	85%	100%	570	40%
100%	0%	100%	23%	77%	100%	570	40%
100%	0%	100%	18%	82%	100%	573	40%
100%	0%	100%	2%	98%	100%	575	75%
100%	0%	100%	0%	100%	100%	575	75%
100%	0%	100%	6%	94%	100%	572	40%
43%	57%	43%					

Aavi  
Overa  
Average Span - Majc

%:

Photometric designs, by scenario<sup>2.5</sup> w

Calculated - Distribution of Average Potential

% RW	Average OH Span (ft)	Average UG Span (ft)	Major RW	OH		UG		
				Conc - OH	Wood - OH	Conc - UG	Wood - UG	Aluminum - UG
0%	137	137						
0%	140	140						
AREA	N/A	65						
0%	115	115						
40%	109	109	99					
30%	143	143						
10%	128	128						
0%	100	100						
0%	145	145						
0%	0	0						
30%	143	143						
60%	N/A	89						
0%	0	0						
60%	N/A	99						
60%	N/A	96	1375					
25%	N/A	91						
25%	N/A	90						
20%	150	150						
25%	N/A	91						
25%	N/A	91						
0%	106	106						
15%	129	129						
0%	115	115						
0%	100	100						
AREA	60	60						
AREA	82	82						
75%	130	130						
50%	137	137						
75%	157	157						
40%	213	213						
50%	178	178						
AREA	N/A	65						
50%	157	157	750					
50%	157	157	4					
40%	178	178						
50%	N/A	65	343					
60%	N/A	91						
60%	N/A	96						
10%	100	100						
10%	100	100						
75%	137	137	253					
50%	N/A	65						
40%	178	178						
0%	N/A	65						



0%	0	0
50%	N/A	65
50%	N/A	65
60%	0	0
25%	150	150
AREA	124	124
75%	124	124
40%	137	137
50%	130	130
30%	160	160
40%	125	125
75%	169	169
40%	169	169
10%	124	124
20%	124	124
0%	129	129
0%	150	125
50%	150	185
50%	150	185
AREA	N/A	81
60%	N/A	81
60%	N/A	81
60%	N/A	103
25%	N/A	125
25%	N/A	94
60%	N/A	94

13					
	94%	6%	6%	0%	0%
29226	65%	31%	31%	0%	2%
302	1%	99%	99%	0%	0%
1546	75%	17%	17%	0%	1%
109	3%	13%	13%	0%	0%
	9%	51%	51%	0%	35%
3563	27%	12%	12%	0%	1%
521	61%	26%	26%	0%	3%
	15%	77%	77%	0%	1%
	27%	50%	50%	0%	1%
	86%	7%	7%	0%	0%
	70%	20%	20%	0%	0%
69	21%	8%	8%	0%	0%
4	87%	13%	13%	0%	0%
	0%	0%	0%	0%	11%
	0%	0%	7%	0%	60%
	0%	0%	7%	0%	42%
	0%	0%	1%	0%	43%
	0%	1%	1%	0%	87%
	0%	1%	1%	0%	87%
	0%	0%	4%	0%	63%

	OH	UG
Average Span	134	118
All Avg Span	126.9	
or Roadway	135.7	

	128	115	check
Subdivision Lights of RW			0%
%MajorRW of RW			100%
allRW	142215.85		
allMajorRW	117596		
nonCustIDnonMajorRW	24620		

$$=(\text{all RW}-\text{MajorRW}-\text{nonCustIDnonMajorRW})/\text{all RW}$$

$$=(\text{MajorRW})/\text{all RW}$$

210 01/00 Fixture attributes  
feasible Delec1.5

Steel - UG	Fiber - UG	CONC	WOOD	Wood or Conc	Bucket Truck & Key Req	Bucket Truck Req	Climb & Key Req

0%	0%	6%	94%	100%	0%	98%	0%
0%	0%	32%	65%	97%	0%	99%	0%
0%	0%	99%	1%	100%	0%	100%	0%
0%	0%	24%	76%	100%	0%	100%	0%
0%	0%	81%	19%	100%	0%	100%	0%
0%	0%	56%	9%	65%	0%	100%	0%
0%	0%	54%	99%	153%	0%	100%	0%
1%	0%	36%	61%	97%	0%	99%	0%
1%	0%	83%	15%	98%	0%	100%	0%
1%	0%	71%	27%	98%	0%	100%	0%
0%	0%	14%	86%	100%	0%	99%	0%
0%	0%	30%	70%	100%	0%	99%	0%
0%	0%	15%	21%	36%	0%	100%	0%
0%	0%	13%	87%	100%	0%	100%	0%
0%	88%	0%	0%	0%	0%	49%	0%
0%	33%	8%	0%	8%	0%	56%	0%
0%	51%	7%	0%	7%	0%	64%	0%
0%	55%	1%	0%	1%	0%	59%	0%
0%	13%	1%	0%	1%	0%	68%	0%
0%	13%	1%	0%	1%	0%	100%	0%
0%	33%	0%	0%	0%	0%	49%	0%
					0%	91%	0%

Truck & Key      Bucket Truck Req      Climb & Key Req

ACCESS  
from GIS attribute data1  
L17 + L17 HID/LED eq

Climb Req	High Bucket	Step Ladder	Bucket Truck Req/ Gate	Grand Total	Gate

2%	0%	0%	0%	100%	0%
0%	0%	0%	0%	99%	0%
0%	0%	0%	0%	100%	0%
0%	0%	0%	0%	100%	0%
0%	0%	0%	0%	100%	0%
0%	0%	0%	0%	100%	0%
0%	0%	0%	0%	100%	0%
0%	0%	0%	0%	99%	0%
0%	0%	0%	0%	100%	0%
0%	0%	0%	0%	100%	0%
0%	0%	0%	1%	100%	1%
0%	0%	0%	0%	99%	0%
0%	0%	0%	0%	100%	0%
0%	0%	0%	0%	100%	0%
0%	0%	51%	0%	100%	0%
0%	0%	44%	0%	100%	0%
0%	0%	36%	0%	100%	0%
0%	0%	41%	0%	100%	0%
0%	0%	32%	0%	100%	0%
0%	0%	0%	0%	100%	0%
0%	0%	51%	0%	100%	0%
0%	0%	8%	0%	100%	0%

R:

Climb Req      High Bucket      Step Ladder      Bucket Truck  
Req/ Gate      Grand Total      Gate

Source: Lighting Historical Revenue\_Billable Items.xlsx

Installed	2015	2016	2017	2018	2019	2020
Fixtures	4443	4623	2890	1328	2955	6650
Poles	3162	3162	3162	3162	3162	3162
Fixtures w/o Poles	1281	1461	-272	-1834	-207	3488
Ratio Fixtures/Poles	1.4	1.5	0.9	0.4	0.9	2.1
Ratio Fixtures w/o Poles to Fixtures w/Poles	41%					

%Fixtures w/ Poles	63%
% Fixtures	37%
	<u>100%</u>

New Installed Fixtures	
%Fixtures w/ Poles	47%
% Additional Fixture (New) (wo Pole)	10%
% Fixture wo Pole (Head Replacement)	43%
	<u>100% using histo</u>

<b>Total</b>	<b>Billing EOY</b>	
	<b>2020</b>	<b>2019</b>
22889	234458	227809
18972	147716	143728
3917	86742	84081
1.2	1.6	

*rical head replacement data 2008-2011 (2013 COSS study)*

Maintenance Cost Summary - LED

\*Original 100% EC - See Exhibit 10

Rate Code	Description	Luminaire Failure	Lamp Failure	Luminaire Parts Failure	NLC Failure	NLC Infrastructure - \$/hr	Rating Failure*	Average Annual Cost	Total Monthly Charge	
912	LED 27W WATCH LIGHT	\$16.44			\$3.50	\$1.48		\$21.51	\$1.80	912
914	LED 47W AUTOBANN/AUTOBANN MICRO	\$17.88			\$3.50	\$1.48		\$22.86	\$1.92	914
921	LED 84W EVOLVE	\$18.70			\$3.50	\$1.48		\$23.78	\$1.99	921
926	LED 105W AUTOBANN	\$20.94			\$3.50	\$1.48		\$26.01	\$2.17	926
932	LED 133W AUTOBANN	\$21.88			\$3.50	\$1.48		\$26.85	\$2.25	932
936	LED 143W US&L EATON	\$24.49			\$3.50	\$1.48		\$29.56	\$2.47	936
937	LED 145W AUTOBANN	\$20.95			\$3.50	\$1.48		\$26.92	\$2.17	937
941	LED 162W ARCHEN/VERDEON	\$23.70			\$3.50	\$1.48		\$28.77	\$2.40	941
946	LED 247W VERDEON	\$24.82			\$3.50	\$1.48		\$29.89	\$2.50	946
947	LED 330W EVOLVE/327W 305W	\$41.05			\$3.50	\$1.48		\$46.02	\$3.89	947
951	LED 199W ACP FLOOD EXE	\$31.45			\$3.50	\$1.48		\$36.52	\$3.05	951
953	LED 205W FLOOD EXE	\$38.13			\$3.50	\$1.48		\$44.20	\$3.61	953
956	LED 225W GALLEON	\$34.69			\$3.50	\$1.48		\$39.76	\$3.32	956
958	LED 335W GALLEON	\$45.30			\$3.50	\$1.48		\$49.37	\$3.97	958
965	LED 26W GRNVL PT 30W LEXINGTON PT	\$9.37			\$3.50	\$1.48		\$14.44	\$1.21	965
967	LED 30W ENH GRNVL PT 32W	\$15.95			\$3.50	\$1.48		\$19.92	\$1.58	967
968	LED 30W ENH GRNVL PT 37W	\$15.90			\$3.50	\$1.48		\$20.88	\$1.75	968
971	LED 50W UTILITY PT	\$15.82			\$3.50	\$1.48		\$20.88	\$1.75	971
972	LED 60W GRNVL PT 57W	\$14.16			\$3.50	\$1.48		\$19.23	\$1.61	972
973	LED 60W ENH GRNVL PT 57W	\$16.06			\$3.50	\$1.48		\$21.13	\$1.77	973
975	LED 76W UTILITY PT	\$16.35			\$3.50	\$1.48		\$21.42	\$1.79	975

No Lamp Failure or Light Square Failure included for LED  
No Parts Failure included for LED



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Luminaire Failure\*

Rate Code	Description	Luminaire	Network Lighting Cost/fixture	Avg Material Cost	Material Quantity	Labor & Variable	Total Activity Cost**	Percentage**	Annual Cost
912	LED 27W WATCH LIGHT	\$102.30	\$109.35	\$211.66	\$25.88	\$ 89.62	\$422.38	4.08%	\$16.44
914	LED 47W AUTOBAMN AU	\$147.07	\$109.35	\$264.42	\$31.33	\$ 89.62	\$473.70	4.08%	\$17.98
921	LED 84W EVOLVE	\$172.87	\$109.35	\$282.02	\$34.46	\$ 89.62	\$487.89	4.08%	\$18.70
926	LED 105W AUTOBAMN	\$242.14	\$109.35	\$381.49	\$42.36	\$ 89.62	\$573.69	4.08%	\$23.94
932	LED 133W AUTOBAMN	\$271.24	\$109.35	\$380.59	\$46.60	\$ 89.62	\$535.65	4.08%	\$21.88
938	LED 143W USBL EATON	\$362.14	\$109.35	\$481.69	\$56.39	\$ 89.62	\$598.47	4.08%	\$24.49
937	LED 145W AUTOBAMN	\$242.44	\$109.35	\$381.79	\$42.09	\$ 89.62	\$532.23	4.08%	\$20.95
941	LED 165W ARCHERPOWER	\$227.74	\$109.35	\$427.09	\$53.41	\$ 89.62	\$580.22	4.08%	\$22.70
946	LED 247W VERDECON	\$362.52	\$109.35	\$471.87	\$57.68	\$ 89.62	\$607.66	4.08%	\$24.82
947	LED 330W EVOLVE 327W	\$881.49	\$109.35	\$990.84	\$121.07	\$ 89.62	\$1,211.53	4.08%	\$47.65
951	LED 165W AC/FLOOD 84	\$568.25	\$109.35	\$677.60	\$82.70	\$ 89.62	\$750.95	4.08%	\$31.45
953	LED 252W FLOOD 60x	\$775.48	\$109.35	\$884.83	\$108.12	\$ 89.62	\$993.42	4.08%	\$38.13
956	LED 255W GALLEON	\$668.85	\$109.35	\$778.20	\$95.00	\$ 89.62	\$862.81	4.08%	\$34.69
958	LED 333W GALLEON	\$873.93	\$109.35	\$983.28	\$120.14	\$ 89.62	\$1,113.08	4.08%	\$41.30
965	LED 30W GRNVL FT 30W	\$311.62	\$109.35	\$420.97	\$51.44	\$ 89.62	\$552.03	1.65%	\$9.37
967	LED 30W ENH GRNVL FT	\$683.33	\$109.35	\$772.68	\$94.41	\$ 89.62	\$844.95	1.65%	\$13.95
968	LED 30W ENH GRNVL FT	\$913.62	\$109.35	\$923.17	\$112.63	\$ 89.62	\$995.66	1.65%	\$15.90
971	LED 55W UTILITY FT	\$807.10	\$109.35	\$916.45	\$111.08	\$ 89.62	\$997.38	1.65%	\$15.82
972	LED 60W GRNVL FT 50W	\$979.61	\$109.35	\$788.96	\$96.42	\$ 89.62	\$955.60	1.65%	\$14.16
973	LED 60W ENH GRNVL FT	\$825.72	\$109.35	\$935.07	\$114.25	\$ 89.62	\$973.38	1.65%	\$16.06
975	LED 70W UTILITY FT	\$847.78	\$109.35	\$927.13	\$116.25	\$ 89.62	\$993.46	1.65%	\$16.35

\*\*Total Activity Cost Includes 2% Fixture Cost Includes Assume Fixture is under warranty for 5 year and fixture life of 5 years. Includes 100% Smart Controls cost and includes Material Handle  
\*\* Frequency based on L70 maintenance 2019-2020 at 110 hours

Network Lighting Control (NLC) Failure\*

Working Conversion Rate	Description			Qty	Material Cost	Material Quantity	Material Unit Price	Material Total Cost	Frequency**	Annual Cost
912	LED 27W WATCH LIGHT				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
914	LED 47W AUTOBAHN AUTOBAHN MICRO				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
921	LED 84W EVOLVE				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
926	LED 105W AUTOBAHN				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
932	LED 133W AUTOBAHN				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
935	LED 143W USBL EATON				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
937	LED 145W AUTOBAHN				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
941	LED 165W ARCHENON/VERDEON				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
942	LED 247W VERDEON				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
947	LED 330W EVOLVE/327W 305W				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
951	LED 199W AC/FLOOD 6W				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
953	LED 252W FLOOD 6W				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
955	LED 252W GALLEON				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
958	LED 333W GALLEON				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
962	LED 20W GRNVL PT 30W LEXINGTON PT				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
967	LED 30W ENH GRNVL PT 37W				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
968	LED 30W ENH GRNVL PT 37W				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
971	LED 55W UTILITY PT				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
972	LED 60W GRNVL PT 67W				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
973	LED 60W ENH GRNVL PT 67W				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59
975	LED 70W UTILITY PT				\$109.25	\$13.36	\$ 55.44	\$178.15	2.02%	\$3.59

\* Assume 100% FC contribution  
\*\* Frequency based on overall System Average Frequency - adjusted for UV failure impact

Network Lighting Control (NLC) Infrastructure Operation

Working Conversion Rate	Description	RF	UF	Security	Observation	OSR Cost Base	Total Activity Cost	Frequency**	Annual Cost
912	LED 27W WATCH LIGHT	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
914	LED 47W AUTOBAHN AUTOBAHN MICRO	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
921	LED 84W EVOLVE	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
926	LED 105W AUTOBAHN	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
932	LED 133W AUTOBAHN	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
935	LED 143W USBL EATON	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
937	LED 145W AUTOBAHN	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
941	LED 165W ARCHENON/VERDEON	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
942	LED 247W VERDEON	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
947	LED 330W EVOLVE/327W 305W	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
951	LED 199W AC/FLOOD 6W	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
953	LED 252W FLOOD 6W	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
955	LED 252W GALLEON	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
958	LED 333W GALLEON	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
962	LED 20W GRNVL PT 30W LEXINGTON PT	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
967	LED 30W ENH GRNVL PT 37W	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
968	LED 30W ENH GRNVL PT 37W	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
971	LED 55W UTILITY PT	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
972	LED 60W GRNVL PT 67W	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
973	LED 60W ENH GRNVL PT 67W	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48
975	LED 70W UTILITY PT	\$0.52	\$0.35	\$0.24	\$0.17	\$ 0.18	\$1.48	100.00%	\$1.48

\* Assume 100% FC contribution  
\*\* Frequency based on overall System Average Frequency - adjusted for UV failure impact

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Maintenance Cost Summary

Rate	Pole	Pole Replacement	On Cable Failure/Parts	UG Cable Failure/Parts	Pole Price	Average Annual Cost	Total Monthly Charge
422	Aluminum, 10 ft, DB	\$171		\$830	\$21.27	\$32.27	\$2.26
425	Wood (Inaccessible), 30 ft	\$155	\$4.35			\$4.35	\$0.36
523	Round, 22 ft, DB Concrete	\$537		\$8.74		\$8.74	\$0.73
525	Franklin Composite, PT, DB Composite	\$401		\$8.74	\$21.27	\$30.01	\$2.50
580	Harlapo, PT, DB Aluminum	\$252		\$8.74	\$21.27	\$30.01	\$2.50
581	Castor, PT, DB Aluminum	\$444		\$8.74	\$21.27	\$30.01	\$2.50
582	Winston, PT, DB Fibor	\$201		\$8.74	\$21.27	\$30.01	\$2.50
583	Wardlaw, PT, DB Concrete	\$421		\$8.74		\$8.74	\$0.73
584	Aluminum, PT, DB	\$246		\$8.74	\$21.27	\$30.01	\$2.50
585	Charleston/Barnes, PT, DB Aluminum	\$444		\$8.74	\$21.27	\$30.01	\$2.50
586	Charleston, PT, DB Aluminum	\$284		\$8.74	\$21.27	\$30.01	\$2.50
587	Rivers, PT, DB Aluminum	\$284		\$8.74	\$21.27	\$30.01	\$2.50
588	Standard, 35 ft, DB Concrete	\$246		\$8.74		\$8.74	\$0.73
589	Real, 35 ft, DB	\$437		\$8.74	\$46.15	\$54.90	\$4.57
590	Charleston/HD, PT, DB Aluminum	\$343		\$8.74	\$34.74	\$43.49	\$3.62
591	Tall/Warford, 35 ft, DB Concrete	\$546		\$8.74		\$8.74	\$0.73
592	Victorian, PT, DB Concrete	\$871		\$8.74		\$8.74	\$0.73
593	Winston, PT, DB Aluminum	\$232		\$8.74	\$21.27	\$30.01	\$2.50
594	Standard, 45/45 ft, Concrete	\$332	\$4.35	\$8.74		\$4.35	\$0.36
595	Standard, 25/30 ft, DB Concrete	\$252		\$8.74		\$8.74	\$0.73
596	Standard, 45 ft, DB Concrete	\$338		\$8.74		\$8.74	\$0.73
597	Wood, 45/45 ft	\$219	\$4.35			\$4.35	\$0.36
599	Standard, 16 ft, DB Concrete	\$230		\$8.74		\$8.74	\$0.73
607	Std, 110ftspan, 35 ft, DB Conc	\$246		\$8.74		\$8.74	\$0.73
612	Std, 100-150ftspan, 35 ft, DB Conc	\$246		\$8.74		\$8.74	\$0.73
614	Std, 110ftspan, 35 ft, DB Conc	\$246		\$8.74		\$8.74	\$0.73
615	Aluminum, 28 ft, DB	\$385		\$8.74	\$46.15	\$54.90	\$4.57
616	Aluminum, 27 ft, DB	\$637		\$8.74	\$46.15	\$54.90	\$4.57
622	Aluminum, 37 ft, DB	\$559		\$8.74	\$46.15	\$54.90	\$4.57
623	Wardlaw, 38 ft, DB Aluminum	\$554		\$8.74	\$46.15	\$54.90	\$4.57
624	Fiber, PT, DB	\$206		\$8.74	\$21.27	\$30.01	\$2.50
626	Wood, 30 ft	\$166	\$1.67			\$1.67	\$0.14
627	Wood, 35 ft	\$174	\$1.67			\$1.67	\$0.14
637	Standard, 35 ft, Concrete	\$246	\$1.67			\$1.67	\$0.14
641	Wood, Escorted/DB	\$148		\$8.74		\$8.74	\$0.73

VI Pole Reassignment

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Pole Replacement

Rate	Pole	Avg Annual Cost	Material Weight	Letter Values	Total Activity Cost	Frequency	Annual Cost
420	Aluminum, 10 ft, DB	\$86.08	\$10.92	\$505.59	\$505.59	0.28%	\$1.51
425	Wood (tracoconcrete), 30 ft	\$84.78	\$10.36	\$450.51	\$545.85	0.28%	\$1.65
525	Round, 22 ft, DB Concrete	\$1,545.59	\$164.66	\$450.51	\$1,960.76	0.28%	\$5.57
525	Franklin Composite, PT, DB Composite	\$928.04	\$98.73	\$505.59	\$1,412.36	0.28%	\$4.21
580	Herkona, PT, DB Aluminum	\$340.12	\$41.56	\$505.59	\$887.26	0.28%	\$2.52
581	Castrol, PT, DB Aluminum	\$944.99	\$115.47	\$505.59	\$1,566.04	0.28%	\$4.44
582	Winston, PT, DB Fiber	\$182.35	\$22.39	\$505.59	\$710.32	0.28%	\$2.21
583	Waterford, PT, DB Concrete	\$870.74	\$106.39	\$505.59	\$1,482.72	0.28%	\$4.21
584	Aluminum, PT, DB	\$322.41	\$39.39	\$505.59	\$867.39	0.28%	\$2.46
585	Charleston/Barker, PT, DB Aluminum	\$944.99	\$115.47	\$505.59	\$1,566.04	0.28%	\$4.44
586	Charleston, PT, DB Aluminum	\$442.82	\$54.11	\$505.59	\$1,002.51	0.28%	\$2.84
587	Riviera, PT, DB Aluminum	\$442.82	\$54.11	\$505.59	\$1,002.51	0.28%	\$2.84
588	Standard, 35 ft, DB Concrete	\$372.78	\$45.55	\$450.51	\$868.81	0.28%	\$2.46
589	Steel, 35 ft, AB	\$970.47	\$118.58	\$450.51	\$1,539.55	0.28%	\$4.37
590	Charleston H&L, PT, DB Aluminum	\$628.40	\$76.76	\$505.59	\$1,210.71	0.28%	\$3.43
591	Tal Waterford, 35 ft, DB Concrete	\$1,627.12	\$198.81	\$450.51	\$2,276.44	0.28%	\$6.46
592	Victorian, PT, DB Concrete	\$1,658.31	\$202.63	\$505.59	\$2,366.53	0.28%	\$6.71
593	Winston, PT, DB Aluminum	\$279.46	\$34.15	\$505.59	\$819.19	0.28%	\$2.32
594	Standard, 40/45 ft, Concrete	\$643.04	\$78.57	\$450.51	\$1,172.12	0.28%	\$3.32
595	Standard, 25/30 ft, DB Concrete	\$390.12	\$47.87	\$450.51	\$888.50	0.28%	\$2.52
596	Standard, 45 ft, DB Concrete	\$639.47	\$80.58	\$450.51	\$1,190.55	0.28%	\$3.38
597	Wood, 40/45 ft	\$365.73	\$34.91	\$450.51	\$771.15	0.28%	\$2.19
607	Standard, 16 ft, DB Concrete	\$322.41	\$39.39	\$450.51	\$812.31	0.28%	\$2.30
612	Std. 100-150ftspan, 35 ft, DB Conc	\$372.78	\$45.55	\$450.51	\$868.81	0.28%	\$2.46
614	Aluminum, 28 ft, DB	\$928.04	\$98.73	\$450.51	\$1,357.48	0.28%	\$3.85
616	Aluminum, 27 ft, DB	\$1,504.61	\$183.84	\$450.51	\$2,138.96	0.28%	\$6.27
622	Aluminum, 37 ft, DB	\$1,481.62	\$181.04	\$450.51	\$2,113.16	0.28%	\$5.99
623	Winston, 38 ft, DB Aluminum	\$1,339.59	\$163.68	\$450.51	\$1,953.78	0.28%	\$5.64
624	Fiber, PT, DB	\$197.28	\$24.11	\$505.59	\$728.97	0.28%	\$2.06
626	Wood, 35 ft	\$119.10	\$14.55	\$450.51	\$584.16	0.28%	\$1.66
627	Wood, 35 ft	\$145.39	\$17.76	\$450.51	\$613.66	0.28%	\$1.74
637	Standard, 35 ft, Concrete	\$372.78	\$45.55	\$450.51	\$868.81	0.28%	\$2.46
645	Wood, Existing Pole	\$0.00	\$0.00	\$450.51	\$450.51	0.28%	\$1.28

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OH Cable Failure/Pans

Rate	Pole	Avg Material Cost	Material Quantity	Labor & Inhibit	Total Activity Cost	Frequency	Average Cost
422	Aluminum, 10 ft, DB						\$0.00
425	Wood (miscellaneous), 30 ft						\$4.35
523	Round, 23 ft, DB Concrete	\$77.31	\$9.45	\$ 205.15	\$291.91	1.49%	\$0.00
525	Franklin Composite, PT, DB Composite						\$0.00
580	Heritage, PT, DB Aluminum						\$0.00
581	Carroll, PT, DB Aluminum						\$0.00
582	Winston, PT, DB Fiber						\$0.00
583	Waterford, PT, DB Concrete						\$0.00
584	Aluminum, PT, DB						\$0.00
585	Charleston Barren, PT, DB Aluminum						\$0.00
586	Charleston, PT, DB Aluminum						\$0.00
587	Rivers, PT, DB Aluminum						\$0.00
588	Standard, 35 ft, DB Concrete						\$0.00
589	Steel, 30 ft, AD						\$0.00
590	Charleston HS, PT, DB Aluminum						\$0.00
591	Tall Waterford, 35 ft, DB Concrete						\$0.00
592	Winston, PT, DB Concrete						\$0.00
593	Winston, PT, DB Aluminum						\$0.00
594	Standard, 40 ft, DB Concrete	\$77.31	\$9.45	\$ 205.15	\$291.91	1.49%	\$4.55
595	Standard, 25 ft, DB Concrete						\$0.00
596	Standard, 45 ft, DB Concrete						\$0.00
597	Wood, 40 ft, DB	\$77.31	\$9.45	\$ 205.15	\$291.91	1.49%	\$4.35
599	Standard, 15 ft, DB Concrete						\$0.00
607	Std -100ftspan, 35 ft, DB Conc						\$0.00
612	Std -100ftspan, 35 ft, DB Conc						\$0.00
614	Std -150ftspan, 35 ft, DB Conc						\$0.00
615	Aluminum, 29 ft, DB						\$0.00
616	Aluminum, 27 ft, DB						\$0.00
621	Aluminum, 37 ft, DB						\$0.00
623	Waterford, 38 ft, DB Aluminum						\$0.00
624	Fiber, PT, DB						\$0.00
626	Wood, 30 ft	\$77.31	\$15.97	\$ 167.53	\$260.81	0.64%	\$1.67
627	Wood, 35 ft	\$77.31	\$15.97	\$ 167.53	\$260.81	0.64%	\$1.67
637	Standard, 35 ft, Concrete	\$77.31	\$15.97	\$ 167.53	\$260.81	0.64%	\$1.67
641	Wood, Collision Pole						\$0.00

UG Cable Failure/Parts

Rate	Pole	Weighted Avg Material Cost	Material Quantity	Unit Labor & Vehicle	Total Activity Cost	Weighted Gross Frequency	Annual Cost
427	Aluminum, 10 ft, DB	\$118.00	\$14.42	\$ 133.85	\$286.07	3.12%	\$8.00
428	Wood (Tracoconcrete), 30 ft						\$0.00
429	Round 22 ft, DB Concrete	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
525	Framkin Composite, PT, DB Composite	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
580	Heritage, PT, DB Aluminum	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
581	Canox, PT, DB Aluminum	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
582	Winston, PT, DB Fiber	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
583	Waterford, PT, DB Concrete	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
584	Aluminum, PT, DB	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
585	Charleston Banner, PT, DB Aluminum	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
586	Charleston, PT, DB Aluminum	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
587	Riviera, PT, DB Aluminum	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
588	Standard, 35 ft, DB Concrete	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
589	Steel, 30 ft, AB	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
590	Charleston HD, PT, DB Aluminum	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
591	Tall Waterford, 35 ft, DB Concrete	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
592	Monarch, PT, DB Concrete	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
593	Winston, PT, DB Aluminum	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
594	Standard, 40 ft, DB Concrete	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
595	Standard, 25 ft, DB Concrete	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
596	Standard, 45 ft, DB Concrete	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
597	Wood, 40 ft, H						\$0.00
599	Standard, 16 ft, DB Concrete	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
607	Std. 110ftspan, 35 ft, DB Conc	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
612	Std. 100-150ftspan, 35 ft, DB Conc	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
614	Std. 110ftspan, 35 ft, DB Conc	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
615	Aluminum, 28 ft, DB	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
616	Aluminum, 27 ft, DB	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
622	Aluminum, 37 ft, DB	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
623	Waterford, 38 ft, DB Aluminum	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
624	Fiber, PT, DB	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
626	Wood, 30 ft						\$0.00
627	Wood, 35 ft						\$0.00
637	Standard, 35 ft, Concrete	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74
645	Wood Existing Pole	\$130.64	\$15.96	\$ 133.85	\$280.45	3.12%	\$8.74

TAMPA ELECTRIC COMPANY  
DOCKET NO. 20210034-EI  
COST OF SERVICE STUDY  
WITNESS: ASHBURN  
PAGE 242 OF 393  
FILED: 04/9/2021

Paint Pole						
Rate	Pole	Avg Annual Cost	Material Inventory	Labour & Vehicle Cost	Total Activity Cost	Annual Cost
420	Aluminum, 10 ft, DB	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
421	Wood (Vinylsided), 30 ft					\$0.00
524	Round, 23 ft, DB Concrete					\$0.00
525	Franklin Concrete, PT, DB Composite	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
580	Hartage, PT, DB Aluminum	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
581	Castro, PT, DB Aluminum	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
582	Winston, PT, DB Fiber	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
583	Waterford, PT, DB Concrete					\$0.00
584	Aluminum, PT, DB	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
585	Charleston/Baker, PT, DB Aluminum	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
586	Charleston, PT, DB Aluminum	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
587	Riviera, PT, DB Aluminum	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
588	Standard, 35 ft, DB Concrete					\$0.00
589	Steel, 30 ft, DB	\$203.38	\$24.85	\$ 233.31	\$461.55	\$46.15
590	Charleston-HD, PT, DB Aluminum	\$101.70	\$12.43	\$ 233.31	\$347.43	\$34.74
591	Tall Waterford, 35 ft, DB Concrete					\$0.00
592	Victoria, PT, DB Concrete					\$0.00
593	Winston, PT, DB Aluminum	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
594	Standard, 40 ft, DB Concrete					\$0.00
595	Standard, 25/50 ft, DB Concrete					\$0.00
596	Standard, 40 ft, DB Concrete					\$0.00
597	Wood, 40/45 ft, DB Concrete					\$0.00
598	Standard, 16 ft, DB Concrete					\$0.00
607	Std, -100ftspan, 35 ft, DB Conc					\$0.00
612	Std, 100 ftspan, 35 ft, DB Conc					\$0.00
613	Std, -150ftspan, 35 ft, DB Conc					\$0.00
614	Aluminum, 28 ft, DB	\$203.38	\$24.85	\$ 233.31	\$461.55	\$46.15
615	Aluminum, 27 ft, DB	\$203.38	\$24.85	\$ 233.31	\$461.55	\$46.15
622	Aluminum, 37 ft, DB	\$203.38	\$24.85	\$ 233.31	\$461.55	\$46.15
623	Waterford, 38 ft, DB Aluminum	\$203.38	\$24.85	\$ 233.31	\$461.55	\$46.15
624	Peak, PT, DB	\$101.70	\$12.43	\$ 88.63	\$212.66	\$21.27
626	Wood, 30 ft					\$0.00
627	Wood, 35 ft					\$0.00
637	Standard, 35 ft, Concrete					\$0.00
641	Wood, Existing Pole					\$0.00

GIS  
data<sup>1</sup>

Pole Rate	OH/UG	Total Inst InSvc OOS P (not PR)	Material	Description	Avg Pole Cost
422	UG	133	PT	Aluminum, 10 ft, DB	\$ 86.08
425	OH	54	Wood	Wood (Inaccessible), 30 ft	\$84.78
523	UG	160	PT Concrete	Round, 23 ft, DB Concrete	\$1,347.59
525	UG	3313	PT	Franklin Composite, PT, DB Composite	\$808.04
580	UG	153	PT	Heritage, PT, DB Aluminum	\$340.12
581	UG	48	PT	Capitol, PT, DB Aluminum	\$944.99
582	UG	17478	PT	Winston, PT, DB Fiber	\$182.35
583	UG	557	PT	Waterford, PT, DB Concrete	\$870.74
584	UG	149	PT	Aluminum, PT, DB	\$322.41
585	UG	79	PT	Charleston Banner, PT, DB Aluminum	\$944.99
586	UG	18413	PT	Charleston, PT, DB Aluminum	\$442.82
587	UG	1	PT	Riviera, PT, DB Aluminum	\$442.82
588	UG	13644	Concrete	Standard, 35 ft, DB Concrete	\$372.76
589	UG	142	Steel	Steel, 30 ft, AB	\$970.47
590	UG	30	PT	Charleston HD, PT, DB Aluminum	\$628.40
591	UG	1387	Concrete	Tall Waterford, 35 ft, DB Concrete	\$1,627.12
592	UG	765	PT	Victorian, PT, DB Concrete	\$1,658.31
593	UG	4502	PT	Winston, PT, DB Aluminum	\$279.46
594	OH	1337	Concrete	Standard, 40/45 ft, Concrete	\$643.04
595	UG	400	Concrete	Standard, 25/30 ft, DB Concrete	\$390.12
596	UG	1823	Concrete	Standard, 45 ft, DB Concrete	\$659.47
597	OH	2257	Wood	Wood, 40/45 ft	\$285.73
599	UG	48	PT	Standard, 16 ft, DB Concrete	\$322.41
607	UG	31528	Concrete	Std, >100ftspan, 35 ft, DB Conc	\$372.76
612	UG	4634	Concrete	Std, 100-150ftspan, 35 ft, DB Conc	\$372.78
614	UG	4110	Concrete	Std, >150ftspan, 35 ft, DB Conc	\$372.60
615	UG	2543	Aluminum	Aluminum, 28 ft, DB	\$808.22
616	UG	605	Aluminum	Aluminum, 27 ft, DB	\$1,504.61



622	UG	348	Aluminum	Aluminum, 37 ft, DB	\$1,481.62
623	UG	180	Aluminum	Waterside, 38 ft, DB Aluminum	\$1,339.59
624	UG	4396	PT	Fiber, PT, DB	\$197.28
626	OH	25120	Wood	Wood, 30 ft	\$119.10
627	OH	22237	Wood	Wood, 35 ft	\$145.39
637	OH	4986	Concrete	Standard, 35 ft, Concrete	\$372.76
641	UG	42	Wood	Wood, Existing Pole	\$0.00
SCP1	UG	5	Concrete	Concrete, Small Cell Type IV, 45ft	
SCP2	UG	5	Concrete	Concrete, Small Cell Type IV, 40ft	
SCP3	UG	5	Concrete	Concrete, Small Cell Channelside	
SCP4	UG	5	Concrete	AL Small Cell 3 Chamber 1	
SCP5	UG	5	Concrete	AL Small Cell 3 Chamber 2	
SCP6	OH	5	Wood	Wood, Small Cell, 40ft Class2	
SCP7	OH	5	Wood	Wood, Small Cell, 45ft Class2	

167602

%Subdivision Poles

SOURCES

<sup>1</sup> from GIS Source: 2021\_0207\_FixtureInventory\_COSS.xlsx

PVT\_Pole

<sup>2</sup> from 2021\_0204\_ESACLC)20150202\_WR Summary Data.xlsx. Tabs OH&UG\_Install, OH Install, UG

why do I need

Foundation/ Base	Cable, Hardware, Grounding	Conduit	Installation	Engineering	Avg Span (ft)	%CustID (SL) OH
\$ -	\$130.13	\$103.17	\$629.23	\$41.25	65	0%
\$0.00	\$60.78	\$0.00	\$262.63	\$41.25	117	0%
\$0.00	\$158.27	\$127.98	\$842.66	\$41.25	96	0%
\$0.00	\$158.27	\$127.98	\$842.66	\$41.25	96	0%
\$0.00	\$156.45	\$126.38	\$828.89	\$41.25	94	0%
\$0.00	\$156.45	\$126.38	\$828.89	\$41.25	94	0%
\$0.00	\$158.27	\$127.98	\$842.66	\$41.25	96	0%
\$0.00	\$158.27	\$127.98	\$842.66	\$41.25	96	0%
\$0.00	\$156.45	\$126.38	\$828.89	\$41.25	94	0%
\$0.00	\$158.27	\$127.98	\$842.66	\$41.25	96	0%
\$0.00	\$158.27	\$127.98	\$842.66	\$41.25	96	0%
\$0.00	\$156.45	\$126.38	\$828.89	\$41.25	94	0%
\$0.00	\$301.92	\$161.67	\$1,192.21	\$41.25	142	0%
\$391.34	\$174.99	\$152.87	\$1,106.24	\$41.25	131	0%
\$0.00	\$158.27	\$127.98	\$842.66	\$41.25	96	0%
\$0.00	\$203.65	\$167.99	\$1,186.89	\$41.25	146	0%
\$0.00	\$158.27	\$127.98	\$842.66	\$41.25	96	0%
\$0.00	\$150.82	\$127.98	\$842.66	\$41.25	96	0%
\$0.00	\$195.27	\$0.00	\$288.33	\$41.25	138	5%
\$0.00	\$304.37	\$164.87	\$1,219.75	\$41.25	146	0%
\$0.00	\$301.92	\$161.67	\$1,192.21	\$41.25	142	0%
\$0.00	\$68.62	\$0.00	\$288.33	\$41.25	138	1%
\$0.00	\$158.27	\$127.98	\$842.66	\$41.25	96	0%
\$0.00	\$293.34	\$150.47	\$1,095.83	\$41.25	128	0%
\$0.00	\$298.85	\$157.67	\$1,157.79	\$41.25	137	0%
\$0.00	\$320.91	\$186.47	\$1,405.64	\$41.25	173	0%
\$0.00	\$173.15	\$150.47	\$1,085.59	\$41.25	128	0%
\$391.34	\$196.43	\$180.87	\$1,347.20	\$41.25	166	0%

\$391.34	\$198.88	\$184.07	\$1,374.74	\$41.25	170	0%
\$0.00	\$167.64	\$143.26	\$1,023.62	\$41.25	119	
\$0.00	\$130.13	\$103.17	\$629.23	\$41.25	65	0%
\$0.00	\$56.40	\$0.00	\$256.51	\$41.25	112	12%
\$0.00	\$69.09	\$0.00	\$289.55	\$41.25	139	12%
\$0.00	\$191.98	\$0.00	\$279.76	\$41.25	131	0%
\$0.00	\$236.61	\$187.57	\$0.00	\$0.00	141	0%
					142	0%
					142	0%
					146	0%
					170	0%
					170	0%
					138	0%
					138	0%

%Subdivision Poles

=(Premium Lights)/(PremiumLig  
=(all Lights-MajorRWlights-area

i Install

GIS data<sup>1</sup>

GIS data<sup>1</sup> Pole Rates in LightCC

d this?

why do I need this? - for pole painting costs... maybe other stuff

%CustID (SL) UG	%CustID (SL) Total	Cobra/NEMA		Shoebox		Flood		Area Lighter	
		Count	%	Count	%	Count	%	Count	%
0%	0%	0	0%	0	0%	0	0%	0	0%
0%	3%	37	69%	0	0%	0	0%	0	0%
18%	18%	0	0%	35	22%	0	0%	0	0%
16%	16%	0	0%	0	0%	0	0%	0	0%
0%	0%	0	0%	0	0%	0	0%	0	0%
60%	60%	0	0%	0	0%	0	0%	1	2%
26%	26%	0	0%	0	0%	0	0%	0	0%
1%	1%	0	0%	0	0%	0	0%	0	0%
0%	0%	0	0%	0	0%	0	0%	0	0%
		0	0%	0	0%	0	0%	0	0%
19%	19%	0	0%	0	0%	0	0%	0	0%
0%	0%	0	0%	0	0%	0	0%	0	0%
22%	22%	819	6%	2183	16%	409	3%	4775	35%
3%	3%	0	0%	59	42%	0	0%	47	33%
0%	0%	0	0%	0	0%	0	0%	0	0%
18%	18%	0	0%	305	22%	42	3%	624	45%
0%	0%	0	0%	0	0%	0	0%	0	0%
0%	0%	0	0%	0	0%	0	0%	0	0%
0%	5%	0	0%	227	17%	254	19%	374	28%
1%	1%	0	0%	100	25%	32	8%	168	42%
0%	0%	0	0%	182	10%	255	14%	456	25%
0%	1%	113	5%	248	11%	1129	50%	361	16%
0%	0%	0	0%	0	0%	0	0%	0	0%
76%	76%	14188	45%	0	0%	0	0%	315	1%
41%	41%	1993	43%	0	0%	0	0%	324	7%
28%	28%	1644	40%	0	0%	123	3%	986	24%
100%	100%	1033	41%	0	0%	0	0%	0	0%
100%	100%	115	19%	0	0%	0	0%	175	29%

100%	100%	58	17%	0	0%	30	9%	261	75%
		0	0%	0	0%	0	0%	50	28%
30%	30%	0	0%	0	0%	0	0%	0	0%
0%	12%	14476	58%	0	0%	242	1%	144	1%
0%	12%	8450	38%	0	0%	2224	10%	2891	13%
0%	0%	1571	32%	0	0%	424	9%	1072	21%
37%	37%	7	17%	8	19%	4	10%	11	26%
37%	37%	1	20%	1	20%	1	20%	1	20%
37%	37%	1	20%	1	20%	1	20%	1	20%
37%	37%	1	20%	1	20%	1	20%	1	20%
37%	37%	1	20%	1	20%	1	20%	1	20%
37%	37%	1	20%	1	20%	1	20%	1	20%
37%	37%	1	20%	1	20%	1	20%	1	20%

(lights + CustIDLights)  
Lights-nonCustIDlights for remaining fixtures)/all lights

SS file adj

Roadway		PT		TOTAL	
Count	%	Count	%	Count	%
0	0%	133	100%	133	100%
17	31%	0	0%	54	100%
125	78%	0	0%	160	100%
0	0%	3313	100%	3313	100%
0	0%	153	100%	153	100%
0	0%	47	98%	48	100%
0	0%	17552	100%	17552	100%
0	0%	557	100%	557	100%
0	0%	149	100%	149	100%
0	0%	79	100%	79	100%
0	0%	18368	100%	18368	100%
0	0%	1	100%	1	100%
5458	40%	0	0%	13644	100%
36	25%	0	0%	142	100%
0	0%	30	100%	30	100%
416	30%	0	0%	1387	100%
0	0%	765	100%	765	100%
0	0%	4502	100%	4502	100%
481	36%	0	0%	1336	100%
100	25%	0	0%	400	100%
930	51%	0	0%	1823	100%
395	18%	0	0%	2246	100%
48	100%	0	0%	48	100%
17025	54%	0	0%	31528	100%
2317	50%	0	0%	4634	100%
1356	33%	0	0%	4109	100%
1504	59%	0	0%	2537	100%
315	52%	0	0%	605	100%



0	0%	0	0%	349	100%
130	72%	0	0%	180	100%
0	0%	4396	100%	4396	100%
10133	41%	0	0%	24995	100%
8672	39%	0	0%	22237	100%
1920	39%	0	0%	4987	100%
12	29%	0	0%	42	100%
1	20%	0	0%	5	100%
1	20%	0	0%	5	100%
1	20%	0	0%	5	100%
1	20%	0	0%	5	100%
1	20%	0	0%	5	100%
1	20%	0	0%	5	100%
1	20%	0	0%	5	100%

50045 167524 100.0%

Al & Steel	All PT < 25ft	JG Concrete	Wood & OH	Conc
2.3%	30%	34%	33%	100.0%
Al & Steel	PT non-conc	> 45' Conc/Wor	12'-26' Conc	
2.3%	24%	67%	1%	94.7%

	Paint	
	Fiber	Aluminu
Distribution of poles that are painted based on frequency	Fiber	Metal PT
% of all Al/Steel poles	49%	45%
Distribution of poles that are painted based on frequency	80%	20
		88%
Distribution of poles that are painted based on frequency	80%	18%
	PT	Aluminum/S
	98%	2%

	Fiber PT	Metal PT	Metal Other
24% PT non-conc		133	
1 Conc			
30-45' Conc/Wood	3313	153	
		48	
	17478		
		149	
		79	
		18413	
		1	
12'-26' Conc			142
		30	
			2543
			5



TOTAL JO  
% of jobs wit  
Avg poles/jol  
total poles  
% of Pole Dis  
Source: OF



TOTAL JO  
% of jobs wit  
Avg poles/jol  
total poles  
% of Pole Dis  
Source: OF



5

5

20796      19006      2695

<b>TOTAL JO</b>
% of jobs wit
Avg poles/job
total poles
% of Pole Dis
Source: UG

im/Steel	100%
Metal 30'	100%
6%	100%
1%	100%
12%	
2%	

Steel 30'

UG Poles/J		
Partial Day 1-4 Po		
Poles/Job	1-2	1-2 part of 8-10 & 14+
<b>Jobs with this distribution</b>	1773	540
<b>total poles</b>	1965	598
<b>% of Pole Distribution</b>	9%	3%
<b>% of Pole Distribution</b>	9%	
<b>% of Pole Distribution</b>		19

Source: UG Install tab

from Wpro WR data<sup>2</sup>

%Subdivision Lights of RW 0%  
%MajorRW of RW 100%  
from Data\_Lights Cts\_%Span

All Poles/ Job Category			
	1-3	4-14	15+
<b>BS</b>	4921	774	493
h this distrib	80%	13%	8%
o	1.2	7.9	31.6
	5757	6129	15601
tribution	21%	22%	57%

I&UG Install tab

All Poles/Job Normalized								
Poles/Job	Partial Day 1-4 Poles/Day			Full Day(s) 5-7 Poles/Day				
	1-2	1-2 part of 8-10 & 14+	3-4	3-4 part of 8-10 & 14+	5-7	5-7 part of 8-10 (less 6)	11-13	14+
<b>Jobs with this distribution</b>	3281	704	1711	704	211	211	211	563
<b>total poles</b>	3838	824	1899	919	1672	1672	1672	18233
<b>% of Pole Distribution</b>	12%	3%	6%	3%	5%	5%	5%	59%
<b>% of Pole Distribution</b>	12%	12%			11%		65%	
<b>% of Pole Distribution</b>	24%				76%			

Source: OH&UG Install tab

OH Poles/ Job Category			
	1-3	4-14	15+
<b>BS</b>	2262	321	77
h this distrib	85%	12%	3%
o	1.2	7.2	23.9
	2809	2327	1837
tribution	40%	33%	26%

I Install tab

**OH Poles/Job Normalized**

	Partial Day 1-4 Poles/Day				Full Day(s) 5-7 Poles/Day			
% of Pole Distribution	25%	16%			17%		42%	
Poles/Job	1-2	1-2 part of 8-10 & 14+	3-4	3-4 part of 8-10 & 14+	5-7	5-7 part of 8-10 (less 6)	11-13	14+
Jobs with this distribution	1508	165	783	165	88	88	88	106
total poles	1873	204	840	211	635	635	635	2603
% of Pole Distribution	25%	3%	11%	3%	8%	8%	8%	34%
% of Pole Distribution	25%	16%			17%		42%	
% of Pole Distribution	41%				59%			

Source: OH Install tab

UG Poles/ Job Category			
	1-3	4-14	15+
BS	2659	453	416
h this distrib	75%	13%	12%
o	1.1	8.4	33.1
	2948	3802	13764
tribution	14%	19%	67%

Install tab

Job Normalized						
Poles/Day	Full Day(s) 5-7 Poles/Day					Check
3-4	3-4 part of 8-10 & 14+	5-7	5-7 part of 8-10 (less 6)	11-13	14+	
928	540	124	124	124	457	3528
1050	711	1037	1037	1037	15475	22911
5%	3%	5%	5%	5%	68%	100%
10%	9%		72%			
%				81%		



UG Poles/ Job Category				
	100	100-1000	1000+	
<b>TOTAL JOBS</b>	994	439	598	
% of jobs with this distrib	49%	22%	29%	
Avg cable ft/job	83.9	579.1	2861.1	
total cable	83438.9	254217.6	1710963	2048619
% of Cable Distribution	4%	12%	84%	

Check
6188
30727
100%

Check
2660
7635
100%

**SUMMARY - AVERAGE MAINTENANCE UNIT TIMES**

**TEC Labor**

Vehicle as a % of Labor

Activity	Labor/ Vehicle per Activity	Overall OMS Frequency %
Luminaire Failure (LED PT)	\$ 100.55	1.65%
Luminaire Failure (LED nonPT)	\$ 89.62	4.08%
	\$ -	
PC Replacement (LED PT)	\$ 64.55	2.02%
PC Replacement (LED nonPT)	\$ 55.44	2.02%
	\$ -	
PT Double Bracket Replacement	\$ 85.87	
UG Cable Failure/UG Parts	\$ 133.85	3.12%
OH Cable Failure/OH Parts	\$ 205.15	1.49%
Paint Pole PT	\$ 98.53	10.00%
Paint Pole 30' Metal	\$ 233.31	
CLT Pole Replacement (nonPT)	\$ 450.51	0.28%
CLT Pole Replacement (PT)	\$ 505.59	

Maintenance Labor and Vehicle Costs

Travel Time Activities - Maintenance

Line No.		Maint	Group Maint				
1	Travel Time Maint - Drive the Truck						
2	Drive the Truck						
3	Locate Ticket on MDT	0.5	-				
4	Compute Route	1	-				
5	Average Travel	22.5	5				
6	Arrive	-	-				
7	subtotal time (min)	24	5				
8	subtotal time (hr)	0.40	0.08				
9	Set up Bucket - Ybor Archway - Maint - Park the Truck						
10	Turn on flashers, rotating lights, arrow board	1	1				
11	Set cones out	1	1				
12	Gather and set out Extend-o Stick	1	1				
15	subtotal time (min)	3	3				
16	subtotal time (hr)	0.05	0.05				
9	Set up Bucket - Maint - Park the Truck						
10	Turn on flashers, rotating lights, arrow board	1	1	1	1	0	0
11	Read Ticket on MDT	1	1	1	1	0	0
12	Set cones out	1	1	1	1	1	1
13	Gather and set out Materials	2	2	0	2	0	0
14	Raise Bucket	1	-	-	-	1	-
15	Set up and secure Ladder	-	7	-	-	-	7
16	subtotal time (min)	6	12	3	5	2	8
17	subtotal time (hr)	0.10	0.20	0.05	0.08	0.03	0.13
18	Prepare to Travel - Maint - Leave Site						
19	Lower Bucket	1	-	-	-	1	-
20	Stow Ladder	-	7	-	-	-	7
21	Dispose of Materials	1	1	1	1	0	0
22	Pick up and Store cones	1	1	1	1	1	1
23	Relocate to NxtPole/MidSpan	-	-	-	-	2	2
24	Turn off flashers, rotating lights, arrow board	1	1	-	1	0	0
25	Complete Ticket on MDT	1	1	1	1	0	0
26	subtotal time (min)	5	11	3	4	4	10
27	subtotal time (hr)	0.08	0.18	0.05	0.07	0.07	0.17
28							
29	Call in for 2nd Man/Wait for 2nd Man Time						
30	Call on Radio	1					
31	Wait Time	30					
32	subtotal time (min)	31					
33	subtotal time (hr)	0.52					

**Luminaire Failure (LED PT)**

SL1 Crew Hourly rate \$ 65.22

Line No.		Bucket Maint	Climb Maint	2nd Man FR Climb	Memo
1	Luminaire Replacement				
2	Travel Time (Maint)	24	24	24	24
3	Set up Bucket	6	12	3	6
4	Call in for 2nd Man/Wait Time	-	-	31	
5	Pull Material Off Truck	4	4		
6	Raise Bucket	1	-		
7	Inspect/Diagnose Problem/ De-energize/ Remove Light	7	11	Join Job	Bucket or Climb
8	Create Memo on MDT	1	1		
9	Replace Luminaire/Energize	10	15	15	
10	Lower Bucket	1	-		
11	Prepare to Travel	5	11	3	5
12	subtotal time (min)	59	78	76	35
13	subtotal time (hr)	0.98	1.30	1.27	0.58
14	Bucket/Climb Ratio	92%	8%		
15	FR/Memo Ratio	100%		25%	

\$ 100.55

Maintenance labor cost formula

=crew hourly rate x [100%x(86% x (bucket maint)+ 14%x(climb maint+2nd man Fr climb maint))+25% x (86% x (bucket maint)+14% x (climb maint+2nd man FR climb maint)+memo]

**Luminaire Failure (LED nonPT)**

SL1 Crew Hourly rate \$ 65.22

Line No.		Bucket Maint	Climb Maint	2nd Man FR Climb	Memo
1	Luminaire Replacement				
2	Travel Time (Maint)	24	24	24	24
3	Set up Bucket	6	12	3	6
4	Call in for 2nd Man/Wait Time	-	-	31	
5	Pull Material Off Truck	4	4		
6	Raise Bucket	1	-		
7	Inspect/Diagnose Problem/ De-energize/ Remove Light	7	11	Join Job	Bucket or Climb
8	Create Memo on MDT	1	1		
9	Replace Luminaire/Energize	10	15	15	
10	Lower Bucket	1	-		
11	Prepare to Travel	5	11	3	5
12	subtotal time (min)	59	78	76	35
13	subtotal time (hr)	0.98	1.30	1.27	0.58
14	Bucket/Climb Ratio	100%	0%		
15	FR/Memo Ratio	100%		25%	

\$ 89.62

Maintenance labor cost formula

=crew hourly rate x [100%x(86% x (bucket maint)+ 14%x(climb maint+2nd man Fr climb maint))+25% x (86% x (bucket maint)+14% x (climb maint+2nd man FR climb maint)+memo]



**Network Lighting Controller (NLC) Replacement (LED PT)**

Line No.		SL1			Crew Hourly rate	
		Bucket Maint	Climb Maint	2nd Man FR Climb	Memo	
1	Relay/Timer Replacement					
2	Travel Time (Maint)	24	24	24		
3	Set up Bucket	6	12	12		
4	Call in for 2nd Man/Wait Time	-	-	31		
5	Pull Material Off Truck	4	4			
6	Raise Bucket	1	-	Join Job		
7	Inspect/Diagnose Problem/ Remove Part	4	5			<i>Do not reduce inspect diagnose, sin</i>
8	Commission NLC	5	5	5		
9	Repair Luminaire	1	3	3		
10	Lower Bucket	1	-			
11	Prepare to Travel	5	11	11		
12	subtotal time (min)	51	64	86		
13	subtotal time (hr)	0.85	1.07	1.43		\$ 64.55
14	Bucket/Climb Ratio	92%	8%			
15	FR/Memo Ratio	100%		0%		

Maintenance labor cost formula

$$=crew hourly rate \times [100\% \times (86\% \times (bucket\ maint) + 14\% \times (climb\ maint + 2nd\ man\ Fr\ climb\ maint)) + 0\% \times (86\% \times (bucket\ maint) + 14\% \times (climb\ maint + 2nd\ man\ FR\ climb\ maint) + memo)]$$

**Network Lighting Controller (NLC) Replacement (LED nonPT)**

Line No.		SL1			Crew Hourly rate	
		Bucket Maint	Climb Maint	2nd Man FR Climb	Memo	
1	Relay/Timer Replacement					
2	Travel Time (Maint)	24	24	24		
3	Set up Bucket	6	12	12		
4	Call in for 2nd Man/Wait Time	-	-	31		
5	Pull Material Off Truck	4	4			
6	Raise Bucket	1	-	Join Job		
7	Inspect/Diagnose Problem/ Remove Part	4	5			<i>Do not reduce inspect diagnose, sin</i>
8	Commission NLC	5	5	5		
9	Repair Luminaire	1	3	3		
10	Lower Bucket	1	-			
11	Prepare to Travel	5	11	11		
12	subtotal time (min)	51	64	86		
13	subtotal time (hr)	0.85	1.07	1.43		\$ 55.44

14 Bucket/Climb Ratio  
15 FR/Memo Ratio

100%	0%
100%	0%

Maintenance labor cost formula

=crew hourly rate x [100% x (86% x (bucket maint)+ 14%x(climb maint+2nd man Fr climb maint))+0% x (86% x (bucket maint)+14% x (climb maint+2nd man FR climb maint)+memo]

**Post Top Double Bracket Replacement**

Line No.		SL1	Crew Hourly rate	\$	65.22
1	Post top Double Bracket Replacement				
2	Travel Time (Maint)				
3	Set up Bucket				
4	Remove Fixtures & Bracket				
5	Lower Bucket				
6	Make up Double Bracket & Fixtures				
7	Install Double Bracket & Fixtures				
8	Prepare to Travel				
9	subtotal time (min)				
10	subtotal time (hr)				

*Bucket*

24

6

30

1

6

12

5

79

1.32

\$ 85.87

Maintenance labor cost formula =crew hourly rate x (replace double bracket maint)

263

(Cable/UG Parts Failure) FR & Memo

SL1 Crew Hourly rate \$ 65.22  
 SL2 Crew Hourly rate \$ 130.42

Line No.	UG Cable Failure/UG Parts	Bucket Maint			Memo (UG Parts)	Memo (LT-UG Cable)	
		FR	Climb Maint FR	FR (pre Memo) All			
1	Travel Time (Maint)	24	24	24	24	24	
2	Set up Bucket	6	12	6	5	5	
3	Inspect/Diagnose Problem	3	5	3			
4	Prepare to Travel NxtPole	4	10	4			
5	Set up Bucket NxtPole	2	8	2			
6	Inspect/Diagnose Problem (determine is UG issue)	3	5	3	Bucket or Climb	Bucket or Climb	
7	Lower Bucket	1	-	1			
8	Locate HH/Feed Source	10	10	10			
9	Inspect/Diagnose Problem	2	2	2			
10	Adtt'l Inspect/Diagnose Handhole/Connector/Fuse/Fuse Holder (may determine is UG Cable issue)	-	-	-	2		
11	Remove Old Conductor	-	-	-	-	30	
12	Pull Material Off Truck	4	4	2nd Trip	4	4	
13	Measure Cable	-	-	-	-	15	
14	Repair/Replace Conductor	-	-	-	-	30	
15	Repair/Replace Handhole/Connector/Fuse/Fuse Holder	4	4		4	-	
16	Raise Bucket	1	-		1	1	
17	Cover PC/Test Light	1	1		1	1	
18	Prepare to Travel	5	11	4	4	4	
19	subtotal time (min)	70	96	60	45	114	
20	subtotal time (hr)	1.16	1.59	1.00	0.74	1.90	\$ 133.85
21	Bucket/Climb Ratio	95%	5%				
22	FR/Memo Ratio	75%		24%	0.7%	24.1%	
23							
24							

25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35

Part	Insp/Diagns/ Remv	Replace	Individual Frequency	Ratio	All FR Freq	All Memo Freq
UG Cable Failure FR			1.08%	24%	100%	100%
Hand Hole	10	11	0.19%	4%	85%	15%
UG Connector	5	4	0.06%	1%	100%	0%
UG Fuse	2	2	2.14%	48%	100%	0%
UG Fuse Holder	3	9	1.00%	22%	100%	0%
Average	2	4	4.48%		99%	24.8%
				UG Parts Ratio	75.2%	0.7%
				LT-UG Cable Ratio	24%	24.1%

Maintenance labor cost formula

=crew1 hourly rate x (84%x(95%x(bucket maint)+5%x(climb maint))+crew1 hourly rate x (15%x( 1st trip)+ 0.4%x(2nd trip UGParts maint)) + crew2 hourly rate x (15%x(15.1%\*(2nd trip UGCable maint)

(Cable/OH Parts Failure) FR & Memo

SL1  
SL2

Crew Hourly rate \$ 65.22  
Crew Hourly rate \$ 130.42

Line No.	Cable Failure w/ OH Cable Parts	Bucket Maint	FR	Climb Maint FR	2nd Man FR Climb	FR (pre Memo) All	Memo (OH Parts)	Memo (LT-2/4 SVC)
1	Travel Time (Maint)		24	24	24	24	24	24
2	Set up Bucket		6	12	3	6	6	6
3	Inspect/Diagnose Problem		3	5		3		
4	Prepare to Travel NxtPole		4	10		4		
5	Set up Bucket NxtPole		2	8		2		
6	Inspect/Diagnose Problem (determine is OH Cable Issue)		3	5	Join Job	3		
7	Add'l Inspect/Diagnose Connector/Fuse		1	1		1	Bucket or Climb	Bucket or Climb
8	Prepare to Travel MidSpan		4	4		1		
9	Create Memo on MDT		-	-		1		
10	Call in for 2nd Man/Wait Time or log as Memo		-	-	31			
11	Pull Material Off Truck		4	4	Join Job		4	4
12	Measure Cable		10	10			-	10
13	Set up Bucket MidSpan		2	2			-	2
14	Repair/Replace Conductor - tree trim/make splice		15	25	25	2nd Trip	-	48
15	Add'l Repair/Replace Connector/Fuse		4	4			4	4
16	Prepare to Travel NxtPole		4	10	10		4.3	-
17	Set up Bucket NxtPole		2	8	8		2.3	-
18	Reenergize		2	2	2		2	-
19	Prepare to Travel		5	11	3	5.3	5.3	5
20	subtotal time (min)		95	145	122	52	51	102
21	subtotal time (hr)		1.58	2.41	2.03	0.86	0.86	1.70
22	Bucket/Climb Ratio		95%	5%				
23	FR/Memo Ratio		54%		46%		24%	

Repair Type

Repair Type	Clear	in Trees	Memo ratio
Cut old Cable	4	4	\$ 205.15

27	Attach Rope, pull Old Cable Out of Trees, pull new Cable in	20	35
28	Hang & Sag Cable	8	8
29	Make Hot (connect)	3	3
30	Dispose of Materials, add'l	2	2
31	Repair/Replace Cable Sum	37	52
32	Clear/Tree Trim Ratio	30%	70%
33	Repair/Replace Cable Avg	48	

Part	Insp/Diagns/Remv	Replace	Individual Frequency	Ratio
OH Cable Failure FR			0.10%	66%
OH Connector	5	4	0.02%	20%
OH Fuse	2	1	0.21%	14%
Average	1	4	0.33%	

	FR All FR Freq	Memo All Memo Freq
OH Parts Ratio	100%	49%
LT-2/4 SVC Ratio	0%	100%
	86.2%	46.4%
	24%	24.1%

Maintenance labor cost formula

=crew1 hourly rate x (69%x(95%x(bucket maint)+5%x(climb maint + 2nd man climb maint))+crew1 hourly rate x (14%x( 1st trip)+ 17%(2nd trip OHParts maint)) + crew2 hourly rate x (14%x(1st trip)+17%x(2nd trip UGCable maint))

<b>(Clean/Paint Poles)</b>										
		PT1			Crew Hourly rate		PT2			Crew Hourly rate
					\$ 77.10					\$ 136.94
Line No.	Clean/Paint Poles	First	Paint Maint - PT		First	Paint Maint - 30'		Interim	Last	
			Interim	Last		Interim	Last			
1	Travel Time (Group)	24	5	5	24	5	5			
2	Set up	10	5	5	10	5	5			
3	Pressure Wash Pole	20	20	20	20	20	20			
4	Paint Pole & Fixture	20	20	20	45	45	45			
5	Prepare to Travel Nxt Pole	8	8	8	8	8	8			
6	Re-Grid Pole	5	5	5	5	5	5			
7	Restore Site/Stow Materials	2	2	15	2	2	15			
8	Prepare to Travel Nxt Pole	8	8	6	8	8	6			
9	subtotal time (min)	97	73	84	122	98	109			
10	subtotal time (hr)	1.62	1.22	1.4	2.03	1.63	1.82			
11	average time (hr)		1.28			1.70				
12	PT/30' Pole Ratio		95%			5%				

	PT	30'
First	\$124.90	\$277.99
Interim	\$94.06	\$223.21
Last	\$107.94	\$249.23
poles/day	10	8
Avg/pole	\$98.53	\$233.31

<b>Pole Replacement - Maintenance</b>									
		<i>includes Car Hit Pole non Post Top</i>			SS1	Crew Hourly rate	\$ 106.87		
					LN1	Crew Hourly rate	\$ 204.85		
Line No.	Pole (w/ new Fixture) Replacement	All Maint FR	Memo (CLT)						
1	Travel Time (Maint)	24	24						
2	Inspect/Make Safe/Deenergize Feed	20	-						
3	Create Memo on MDT	1	-						
4	Set up Bucket		4.7						
5	Set up Site/Pole Hauler		5						
6	Make up Material		10						
7	Run Cable down thru Pole		5.0						
8	Wire New Fixture/Bracket & Install on Pole	Bucket or Climb	15						
9	Dig Hole/Set Pole		19.6						
10	Energize Fixture		8.9						
11	Raise Bucket/Set up Ladder		0.8						
12	Test Light		2						
13	Restore Site/Stow Material		6						
14	Prepare to Travel	5	5						
15	subtotal time (min)	50	106						





SUMMARY - AVERAGE MAINTENANCE UNIT TIMES

Activity	Labor/ Vehicle per Activity	Overall OMS Frequency %
Luminaire Failure (LED PT)	\$ 100.55	1.65%
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OH Cable Failure/OH Parts	\$ 205.15	1.49%
Paint Pole PT	\$ 98.53	10%
Paint Pole 30' Metal	\$ 233.31	
CLT Pole Replacement (nonPT)	\$ 450.51	0.28%
CLT Pole Replacement (PT)	\$ 505.59	

part of WP and other activities

updated: **1/25/2021**  
*effective 01/01/2021 Updated Base Energy, fuel, capacity*  
*effective 09/01/2020 Removed fuel credit*  
*effective 06/01/2020 Updated fuel, fuel credit, capacity c*  
*effective 01/01/2020 Updated fuel, capacity, conservatio*  
*effective 01/01/2019 Updated Base Energy, fuel, consv, c*  
*effective 2/6/2018 Updated Facility & Maintenance ch*

Rate Operand	or DTD E	New Rate Code		Description	Lamp Wattage (4)
		Type of Service	Rate		
TS-HPS-468	454	DTD	468	Flood	250
TS-HPS-478	484	DTD	478	Flood	400
TS-HPS-509	508	DTD	509	Post Top (PT)	50
TS-MH-520	522	DTD	520	Cobra	400
TS-HPS-550	534	DTD	550	Shoebox	100
TS-HPS-552	538	DTD	552	Shoebox	400
TS-MH-554	540	DTD	554	Shoebox	400
TS-MH-556	541	DTD	556	Flood	400
TS-MH-558	578	DTD	558	Flood	1,000
TS-MH-564	549	DTD	564	Shoebox	175
TS-HPS-566	536	DTD	566	Shoebox	250
TS-HPS-570	530	DTD	570	Classic PT (Classic, Enh Classic, Promenade)	100
TS-HPS-571	531	DTD	571	Contemporary PT	100
TS-HPS-572	532	DTD	572	Colonial PT	100
TS-HPS-573	533	DTD	573	Salem PT	100
TS-MH-574	548	DTD	574	General PT	175
TS-MH-575	568	DTD	575	Salem PT	175
TS-MH-576	577	DTD	576	Shoebox	1,000
TS-MH-700	720	DTD	700	Salem PT	150
TS-MH-701	721	DTD	701	General PT (Classic, Enh. Classic, Colonial)	150
TS-MH-702	722	DTD	702	Shoebox	150
TS-MH-703	723	DTD	703	Shoebox	350
TS-MH-704	724	DTD	704	Cobra	350
TS-MH-705	725	DTD	705	Flood	350
TS-HPS-800	860	DTD	800	Cobra	50
		DTD			
TS-HPS-802	862		802	Cobra/Nema	70
TS-HPS-803	863	DTD	803	Cobra/Nema	100
TS-HPS-804	864	DTD	804	Cobra	150
TS-HPS-805	865	DTD	805	Cobra	250
TS-HPS-806	866	DTD	806	Cobra	400

		DTD			
TS-HPS-809	869		809	Mongoose	400
		DTD			
TS-HPS-810	870		810	Coach PT	70
TS-LED-820	840	DTD	820	Roadway	<del>403</del> 107
TS-LED-821	841	DTD	821	Roadway	106
TS-LED-822	842	DTD	822	Roadway	196
TS-LED-823	843	DTD	823	Roadway	<del>206</del> 213
TS-LED-824	844	DTD	824	Post Top	67
		DTD			
TS-LED-825	845		825	Post Top	99
TS-LED-826	846	DTD	826	Area-Lighter	<del>202</del> 211
TS-LED-827	847	DTD	827	Area-Lighter	<del>309</del> 315
TS-LED-828	848	DTD	828	Roadway	56
TS-LED-829	849	DTD	829	Roadway	157
TS-LED-830	850	DTD	830	Area-Lighter	152
		DTD			238 (236 &
TS-LED-831	851		831	Flood	240)
TS-LED-832	852	DTD	832	Flood	363)
TS-LED-833	853	DTD	833	Mongoose	245
TS-LED-834	854	DTD	834	Mongoose	328
TS-LED-835	855	DTD	835	Classic Post Top	60
TS-LED-836	856	DTD	836	Classic Post Top	100
DD-L17-912	981	DTD	912	Roadway	27
DD-L17-914	0	DTD	914	Roadway	47
DD-L17-921	0	DTD	921	Roadway/Area-Lighter	88
DD-L17-926	982	DTD	926	Roadway	105
DD-L17-932	0	DTD	932	Roadway/Area-Lighter	133
DD-L17-935	0	DTD	935	Roadway	143
DD-L17-937	0	DTD	937	Roadway	145
DD-L17-941	983	DTD	941	Roadway	182
DD-L17-945	0	DTD	945	Roadway	247
DD-L17-947	984	DTD	947	Area-Lighter	330
DD-L17-951	985	DTD	951	Flood	199
DD-L17-953	986	DTD	953	Flood	255
DD-L17-956	987	DTD	956	Mongoose	225
DD-L17-958	0	DTD	958	Mongoose	333
					26
DD-L17-965	0	DTD	965	Granville PT	30
DD-L17-967	988	DTD	967	Granville PT	39

DD-L17-968	989	DTD	968	Granville Enhanced PT	39
DD-L17-971	0	DTD	971	Salem PT	55
DD-L17-972	0	DTD	972	Granville PT	60
DD-L17-973	0	DTD	973	Granville Enhanced PT	60
DD-L17-975	990	DTD	975	Salem PT	76
TS-HPS-454	468	Timed	454	Flood	250
TS-HPS-484	478	Timed	484	Flood	400
TS-HPS-508	509	Timed	508	Post Top (PT)	50
TS-MH-522	520	Timed	522	Cobra	400
TS-HPS-530	570	Timed	530	Classic PT	100
TS-HPS-531	571	Timed	531	Contemporary PT	100
TS-HPS-532	572	Timed	532	Colonial PT	100
TS-HPS-533	573	Timed	533	Salem PT	100
TS-HPS-534	550	Timed	534	Shoebox	100
TS-HPS-536	566	Timed	536	Shoebox	250
TS-HPS-538	552	Timed	538	Shoebox	400
TS-MH-540	554	Timed	540	Shoebox	400
TS-MH-541	556	Timed	541	Flood	400
TS-MH-548	574	Timed	548	General PT	175
TS-MH-549	564	Timed	549	Shoebox	175
TS-MH-568	575	Timed	568	Salem PT	175
TS-MH-577	576	Timed	577	Shoebox	1,000
TS-MH-578	558	Timed	578	Flood	1,000
TS-MH-720	700	Timed	720	Salem PT	150
TS-MH-721	701	Timed	721	Enh. Classic,	150
TS-MH-722	702	Timed	722	Shoebox	150
TS-MH-723	703	Timed	723	Shoebox	350
TS-MH-724	704	Timed	724	Cobra	350
TS-MH-725	705	Timed	725	Flood	350
TS-LED-840	820	Timed	840	Roadway	103 107
TS-LED-841	821	Timed	841	Roadway	106
TS-LED-842	822	Timed	842	Roadway	196
TS-LED-843	823	Timed	843	Roadway	206 213
TS-LED-844	824	Timed	844	Post Top	67
TS-LED-845	825	Timed	845	Post Top	99
TS-LED-846	826	Timed	846	Area-Lighter	202 211

TS-LED-847	827	Timed	847	Area-Lighter	309 315
TS-LED-848	828	Timed	848	Roadway	56
TS-LED-849	829	Timed	849	Roadway	157
TS-LED-850	830	Timed	850	Area-Lighter	152
TS-LED-851	831	Timed	851	Flood	238 (236 & 240)
TS-LED-852	832	Timed	852	Flood	359 (354 & 363)
TS-LED-853	833	Timed	853	Mongoose	245
TS-LED-854	834	Timed	854	Mongoose	328
TS-LED-855	835	Timed	855	Classic Post Top	60
TS-LED-856	836	Timed	856	Classic Post Top	100
TS-HPS-860	800	Timed	860	Cobra	50
		Timed			
TS-HPS-862	802		862	Cobra/Nema	70
		Timed			
TS-HPS-863	803		863	Cobra/Nema	100
		Timed			
TS-HPS-864	804		864	Cobra	150
TS-HPS-865	805	Timed	865	Cobra	250
TS-HPS-866	806	Timed	866	Cobra	400
		Timed			
TS-HPS-869	809		869	Mongoose	400
TS-HPS-870	810	Timed	870	Coach PT	70
TS-L17-981	912	Timed	981	Roadway	27
TS-L17-982	926	Timed	982	Roadway	105
TS-L17-983	941	Timed	983	Roadway	182
TS-L17-984	947	Timed	984	Area-Lighter	330
TS-L17-985	951	Timed	985	Flood	199
TS-L17-986	953	Timed	986	Flood	255
TS-L17-987	956	Timed	987	Mongoose	225
TS-L17-988	967	Timed	988	Granville PT	39
				Granville Enhanced	
TS-L17-989	968	Timed	989	PT	39
TS-L17-990	975	Timed	990	Salem PT	76

HPS/MH

(1) Closed to new business

(2) Lumen output may vary by lamp configuration and age.

(3) Wattage ratings do not include ballast losses.

400 HPS Flat (564), closed to new business April 18, 2000, n

\* Total Unit Price Includes Base Energy & Clause Charges, d

Rate Code	Description	Facility	Maintenan
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TIMER-563

BKT-569-PT

	"		ce
563	Timer	\$7.54	\$1.43
569	PT Double Bracket	\$4.27	\$0.06

\* 400 HPS Cube Decorative (add'l) (563) closed to new busi

(not in

omit these? None ni field/billing?

Rate Code	Description	Lamp Wattage
669	Ybor Archway Lighting (800 W)	800
772	CIAC Cobra 100 W HPS on existing pole OH	100
784	CIAC Cobra 250 W HPS on set wood pole OH wire	250

890 20,000 LUM MERC VAPOR CUS

Fuel (incl Credit), Conservation, Capacity, & Environmental + SPP charge 0.03689 ¢/kWh  
*y,conservation, environmental clauses. Add SPP.* Lighting Base Energy 0.02373 ¢/kWh  
0.06062 ¢/kWh

*clauses*  
*n, environmental clauses*  
*capacity & env clauses. (SoBra)*  
*arges*

Lamp Size			Charges per Unit (\$)			
Bulb Type	Initial Lumens (3)	kWh	Fixture	Maint.	Fixture & Maint	Non-Fuel Base Energy
HPS	28,500	105	5.37	2.6	<b>7.97</b>	2.49
HPS	50,000	163	5.71	3	<b>8.71</b>	3.87
HPS	4,000	20	3.98	2.48	<b>6.46</b>	0.47
MH	32,000	159	6.03	4.01	<b>10.04</b>	3.77
HPS	9,500	44	8.01	1.89	<b>9.9</b>	1.04
HPS	50,000	163	9.52	2.44	<b>11.96</b>	3.87
MH	32,000	159	10.02	3.97	<b>13.99</b>	3.77
MH	32,000	159	8.36	4.02	<b>12.38</b>	3.77
MH	107,800	383	10.5	8.17	<b>18.67</b>	9.09
MH	12,800	74	7.95	3.7	<b>11.65</b>	1.76
HPS	28,500	105	8.69	3.18	<b>11.87</b>	2.49
HPS	9,500	44	11.85	1.89	<b>13.74</b>	1.04
HPS	9,500	44	7.48	1.93	<b>9.41</b>	1.04
HPS	9,500	44	11.75	1.89	<b>13.64</b>	1.04
HPS	9,500	44	9.03	1.89	<b>10.92</b>	1.04
MH	14,400	74	10.89	3.73	<b>14.62</b>	1.76
MH	14,400	74	9.38	3.74	<b>13.12</b>	1.76
MH	107,800	383	16.5	8.17	<b>24.67</b>	9.09
MH	12,000	67	9.33	3.92	<b>13.25</b>	1.59
MH	12,000	67	10.6	3.92	<b>14.52</b>	1.59
MH	12,000	67	7.22	3.92	<b>11.14</b>	1.59
MH	29,700	138	9.55	4.93	<b>14.48</b>	3.27
MH	29,700	138	7.53	4.99	<b>12.52</b>	3.27
MH	29,700	138	8.55	5.04	<b>13.59</b>	3.27
HPS	4,000	20	3.16	2.48	<b>5.64</b>	0.47
HPS	6,300	29	3.2	2.11	<b>5.31</b>	0.69
HPS	9,500	44	3.63	2.33	<b>5.96</b>	1.04
HPS	16,000	66	4.18	2.02	<b>6.2</b>	1.57
HPS	28,500	105	4.87	2.6	<b>7.47</b>	2.49
HPS	50,000	163	5.09	2.99	<b>8.08</b>	3.87

HPS	50,000	163	6.5	3.02	<b>9.52</b>	3.87
HPS	6,300	29	4.71	2.11	<b>6.82</b>	0.69
LED	7,577	36	11.15	1.19	<b>12.34</b>	0.85
LED	8,300	37	11.15	1.2	<b>12.35</b>	0.88
LED	15,300	69	14.58	1.26	<b>15.84</b>	1.64
LED	14,831	72	16.8	1.38	<b>18.18</b>	1.71
LED	3,974	24	19.67	1.54	<b>21.21</b>	0.57
LED	6,030	35	20.51	1.56	<b>22.07</b>	0.83
LED	13,620	71	19.1	1.41	<b>20.51</b>	1.68
LED	21,197	108	20.6	1.55	<b>22.15</b>	2.56
LED	5,155	20	7.27	1.74	<b>9.01</b>	0.47
LED	15,285	55	11.1	2.26	<b>13.36</b>	1.31
LED	14,100	53	14.85	2.51	<b>17.36</b>	1.26
LED	22,122	83	15.9	3.45	<b>19.35</b>	1.97
LED	32,087	126	19.16	4.1	<b>23.26</b>	2.99
LED	24,140	86	14.71	3.04	<b>17.75</b>	2.04
LED	32,093	115	16.31	3.6	<b>19.91</b>	2.73
LED	5,176	21	16.53	2.28	<b>18.81</b>	0.50
LED	7,360	35	16.7	2.28	<b>18.98</b>	0.83
L17	2,600	9	4.83	1.74	<b>6.57</b>	0.21
	4752 (3k)					
	5110 (4k)					
	5392 (original 4k)					
L17		16	5.97	1.74	<b>7.71</b>	0.38
L17	8,500	31	8.97	1.74	<b>10.71</b>	0.74
L17	12,414	37	6.83	1.19	<b>8.02</b>	0.88
L17	15,742	47	14.15	1.38	<b>15.53</b>	1.12
L17	16,113	50	11.74	1.41	<b>13.15</b>	1.19
L17	16,251	51	8.61	2.26	<b>10.87</b>	1.21
L17	22,233	64	11.81	2.51	<b>14.32</b>	1.52
L17	29,533	86	16.07	2.51	<b>18.58</b>	2.04
L17	33,600	116	20.13	1.55	<b>21.68</b>	2.75
L17	23,067	70	11.12	3.45	<b>14.57</b>	1.66
L17	33,113	89	21.48	4.10	<b>25.58</b>	2.11
L17	23,563	79	11.78	3.04	<b>14.82</b>	1.87
L17	34,937	117	17.84	3.60	<b>21.44</b>	2.78
	3024					
L17	7030	9	5.8	2.28	<b>8.08</b>	0.21
L17	4,990	14	13.35	2.28	<b>15.63</b>	0.33



L17	4,476	14	15.35	2.28	17.63	0.33
L17	5,240	19	10.95	1.54	12.49	0.45
L17	7,076	21	14.62	2.28	16.9	0.50
L17	6,347	21	16.62	2.28	18.9	0.50
L17	7,188	27	13.17	1.54	14.71	0.64
HPS	28,500	52	5.37	2.6	7.97	1.23
HPS	50,000	81	5.71	3	8.71	1.92
HPS	4,000	10	3.98	2.48	6.46	0.24
MH	32,000	79	6.03	4.01	10.04	1.87
HPS	9,500	22	11.85	1.89	13.74	0.52
HPS	9,500	22	7.48	1.93	9.41	0.52
HPS	9,500	22	11.75	1.89	13.64	0.52
HPS	9,500	22	9.03	1.89	10.92	0.52
HPS	9,500	22	8.01	1.89	9.9	0.52
HPS	28,500	52	8.69	3.18	11.87	1.23
HPS	50,000	81	9.52	2.44	11.96	1.92
MH	32,000	79	10.02	3.97	13.99	1.87
MH	32,000	79	8.36	4.02	12.38	1.87
MH	14,400	37	10.89	3.73	14.62	0.88
MH	12,800	37	7.95	3.7	11.65	0.88
MH	14,400	37	9.38	3.74	13.12	0.88
MH	107,800	191	16.5	8.17	24.67	4.53
MH	107,800	191	10.5	8.17	18.67	4.53
MH	12,000	34	9.33	3.92	13.25	0.81
MH	12,000	34	10.6	3.92	14.52	0.81
MH	12,000	34	7.22	3.92	11.14	0.81
MH	29,700	69	9.55	4.93	14.48	1.64
MH	29,700	69	7.53	4.99	12.52	1.64
MH	29,700	69	8.55	5.04	13.59	1.64
LED	7,577	18	11.15	1.19	12.34	0.43
LED	8,300	19	11.15	1.2	12.35	0.45
LED	15,300	34	14.58	1.26	15.84	0.81
LED	14,831	36	16.8	1.38	18.18	0.85
LED	3,974	12	19.67	1.54	21.21	0.28
LED	6,030	17	20.51	1.56	22.07	0.40
LED	13,620	35	19.1	1.41	20.51	0.83

LED	21,197	54	20.6	1.55	<b>22.15</b>	1.28
LED	5,155	10	7.27	1.74	<b>9.01</b>	0.24
LED	15,285	27	11.1	2.26	<b>13.36</b>	0.64
LED	14,100	27	14.85	2.51	<b>17.36</b>	0.64
LED	22,122	42	15.9	3.45	<b>19.35</b>	1.00
LED	32,087	63	19.16	4.1	<b>23.26</b>	1.49
LED	24,140	43	14.71	3.04	<b>17.75</b>	1.02
LED	32,093	57	16.31	3.6	<b>19.91</b>	1.35
LED	5,176	11	16.53	2.28	<b>18.81</b>	0.26
LED	7,360	18	16.7	2.28	<b>18.98</b>	0.43
HPS	4,000	10	3.16	2.48	<b>5.64</b>	0.24
HPS	6,300	14	3.2	2.11	<b>5.31</b>	0.33
HPS	9,500	22	3.63	2.33	<b>5.96</b>	0.52
HPS	16,000	33	4.18	2.02	<b>6.2</b>	0.78
HPS	28,500	52	4.87	2.6	<b>7.47</b>	1.23
HPS	50,000	81	5.09	2.99	<b>8.08</b>	1.92
HPS	50,000	81	6.5	3.02	<b>9.52</b>	1.92
HPS	6,300	14	4.71	2.11	<b>6.82</b>	0.33
L17	2,600	5	4.83	1.74	<b>6.57</b>	0.12
L17	12,414	18	6.83	1.19	<b>8.02</b>	0.43
L17	22,233	32	11.81	2.51	<b>14.32</b>	0.76
L17	33,600	58	20.13	1.55	<b>21.68</b>	1.38
L17	23,067	35	11.12	3.45	<b>14.57</b>	0.83
L17	33,113	45	21.48	4.1	<b>25.58</b>	1.07
L17	23,563	39	11.78	3.04	<b>14.82</b>	0.93
L17	4,990	7	13.35	2.28	<b>15.63</b>	0.17
L17	4,476	7	15.35	2.28	<b>17.63</b>	0.17
L17	7,188	13	13.17	1.54	<b>14.71</b>	0.31

LED

(1) Closed to new business

(2) Average

(3) Average wattage. Actual wattage may vary by up to

(3rev) Average wattage. Actual wattage may vary by up to

(4) Enhanced Post Top. Customizable decorative options

o Customers. Rate reused for 175 MH Shoebox.

oes not include Tax

Facilities & Maintenance

	Description TSN
<b>\$8.97</b>	Timer
<b>\$4.33</b>	Double Bracket 2E+06

ness April 18, 2000, no Customers. Rate reused for OL-3 Timer.

cluded on lighting tariff sheets)

Lamp Size	Monthly Charges per Unit (\$)			
kWh	Fixture	Maintenance	Dusk-to-Dawn Non-Fuel Base Energy	Total - Unit Price
280	15.26	16.44	6.64	38.34
44	0	2.1	1.04	3.14
105	0	2.35	2.49	4.84

TOMER OWNED

Clause Charges	Total Unit Price *	Closed to New Business
3.87	14.33	3/18/2003
6.01	18.59	2/5/2015
0.74	7.67	12/1/1995
5.87	19.68	1/1/2009
1.62	12.56	2/5/2015
6.01	21.84	2/5/2015
5.87	23.63	1/1/2009
5.87	22.02	1/1/2009
14.13	41.89	2/5/2015
2.73	16.14	3/18/2003
3.87	18.23	2/5/2015
1.62	16.40	2/5/2015
1.62	12.07	4/18/2000
1.62	16.30	2/5/2015
1.62	13.58	2/5/2015
2.73	19.11	1/1/2009
2.73	17.61	1/1/2009
14.13	47.89	2/5/2015
2.47	17.31	2/5/2015
2.47	18.58	2/5/2015
2.47	15.20	2/5/2015
5.09	22.84	2/5/2015
5.09	20.88	2/5/2015
5.09	21.95	2/5/2015
0.74	6.85	1/1/1995
		03/18/2003 (NEMA)
		2/05/2005 (Cobra)
1.07	7.07	01/01/2009 (NEMA)
1.62	8.62	2/5/2015
2.43	10.20	2/5/2015
3.87	13.83	2/5/2015
6.01	17.96	2/5/2015

**Description**

TSN

250W HPS Flood	
400W HPS Flood	
50W HPS Post Top (PT)	
400W MH Cobra	
100W HPS Shoebox	
400W HPS Shoebox	
400W MH Shoebox	
400W MH Flood	
1000W MH Flood	
175W MH Shoebox	
250W HPS Shoebox	
100W HPS Classic PT (Classic, Enh Cla	2005601
100W HPS Contemporary PT	
100W HPS Colonial PT	
100W HPS Salem PT	2005660
175W MH General PT	
175W MH Salem PT	
1000W MH Shoebox	
150W MH Salem PT	
150W MH General PT (Classic, Enh. Classic, Coloniz	
150W MH Shoebox	
350W MH Shoebox	
350W MH Cobra	
350W MH Flood	
50W HPS Cobra	
70W HPS Cobra/Nema	
100W HPS Cobra/Nema	2005576
150W HPS Cobra	2005577
250W HPS Cobra	2005551
400W HPS Cobra	

6.01	<b>19.40</b>	2/5/2015 02/03/1993 SL2 03/18/2003	400W HPS Mongoose	
1.07	<b>8.58</b>	OL1	70W HPS Coach PT	
1.33	<b>14.52</b>	2/6/2018	103 107W LED Roadway	20055572
1.36	<b>14.59</b>	2/6/2018	106W LED Roadway	2115237GI
2.55	<b>20.03</b>	2/6/2018	196W LED Roadway	2111251
2.66	<b>22.55</b>	2/6/2018	206 213W LED Roadway	2111253
0.89	<b>22.67</b>	2/6/2018	67W LED Post Top	2111221
1.29	<b>24.19</b>	2/6/2018	99W LED Post Top	2111229
2.62	<b>24.81</b>	2/6/2018	202 211W LED Area-Lighter	2111250
3.98	<b>28.69</b>	2/6/2018	309 315W LED Area-Lighter	2115250/ 2
0.74	<b>10.22</b>	2/6/2018	56W LED Roadway	2115240
2.03	<b>16.70</b>	2/6/2018	157W LED Roadway	2115050GF
1.96	<b>20.58</b>	2/6/2018	152W LED Area-Lighter	2115246GF
3.06	<b>24.38</b>	2/6/2018	238 (236 & 240)W LED Flood	2114955
4.65	<b>30.90</b>	2/6/2018	359 (354 & 363)W LED Flood	2115217AC
3.17	<b>22.96</b>	2/6/2018	245W LED Mongoose	2115065AC
4.24	<b>26.88</b>	2/6/2018	328W LED Mongoose	2115066
0.77	<b>20.08</b>	2/6/2018	60W LED Classic Post Top	2115068
1.29	<b>21.10</b>	2/6/2018	100W LED Classic Post Top	2115067
0.33	<b>7.11</b>		27W L17 Roadway	
0.59	<b>8.68</b>		47W L17 Roadway	
1.14	<b>12.59</b>		88W L17 Roadway/Area-Lighter	
1.36	<b>10.26</b>		105W L17 Roadway	
1.73	<b>18.38</b>		133W L17 Roadway/Area-Lighter	
1.84	<b>16.18</b>		143W L17 Roadway	
1.88	<b>13.96</b>		145W L17 Roadway	
2.36	<b>18.20</b>		182W L17 Roadway	
3.17	<b>23.79</b>		247W L17 Roadway	
4.28	<b>28.71</b>		330W L17 Area-Lighter	
2.58	<b>18.81</b>		199W L17 Flood	
3.28	<b>30.97</b>		255W L17 Flood	
2.91	<b>19.60</b>		225W L17 Mongoose	
4.32	<b>28.54</b>		333W L17 Mongoose	
0.33	<b>8.62</b>		2630W L17 Granville PT	
0.52	<b>16.48</b>		39W L17 Granville PT	



0.52	<b>18.48</b>			39W L17 Granville Enhanced PT	
0.70	<b>13.64</b>			55W L17 Salem PT	
0.77	<b>18.17</b>			60W L17 Granville PT	
0.77	<b>20.17</b>			60W L17 Granville Enhanced PT	
1.00	<b>16.35</b>			76W L17 Salem PT	
1.92	<b>11.12</b>	3/18/2003	, Timed	250W HPS Flood, Timed	
2.99	<b>13.62</b>	2/5/2015	, Timed	400W HPS Flood, Timed	
0.37	<b>7.07</b>	12/1/1995	, Timed	50W HPS Post Top (PT), Timed	
2.91	<b>14.82</b>	1/1/2009	, Timed	400W MH Cobra, Timed	
0.81	<b>15.07</b>	2/5/2015	, Timed	100W HPS Classic PT, Timed	
0.81	<b>10.74</b>	4/18/2000	, Timed	100W HPS Contemporary PT, Timed	
0.81	<b>14.97</b>	2/5/2015	, Timed	100W HPS Colonial PT, Timed	
0.81	<b>12.25</b>	2/5/2015	, Timed	100W HPS Salem PT, Timed	
0.81	<b>11.23</b>	2/5/2015	, Timed	100W HPS Shoebox, Timed	
1.92	<b>15.02</b>	2/5/2015	, Timed	250W HPS Shoebox, Timed	
2.99	<b>16.87</b>	2/5/2015	, Timed	400W HPS Shoebox, Timed	
2.91	<b>18.77</b>	1/1/2009	, Timed	400W MH Shoebox, Timed	
2.91	<b>17.16</b>	1/1/2009	, Timed	400W MH Flood, Timed	
1.36	<b>16.86</b>	1/1/2009	, Timed	175W MH General PT, Timed	
1.36	<b>13.89</b>	3/18/2003	, Timed	175W MH Shoebox, Timed	
1.36	<b>15.36</b>	1/1/2009	, Timed	175W MH Salem PT, Timed	
7.05	<b>36.25</b>	2/5/2015	, Timed	1000W MH Shoebox, Timed	
7.05	<b>30.25</b>	2/5/2015	, Timed	1000W MH Flood, Timed	
1.25	<b>15.31</b>	2/5/2015	, Timed	150W MH Salem PT, Timed	
1.25	<b>16.58</b>	2/5/2015	, Timed	150W MH General PT (Classic, Enh. Classic, Colonial)	
1.25	<b>13.20</b>	2/5/2015	, Timed	150W MH Shoebox, Timed	
2.55	<b>18.67</b>	2/5/2015	, Timed	350W MH Shoebox, Timed	
2.55	<b>16.71</b>	2/5/2015	, Timed	350W MH Cobra, Timed	
2.55	<b>17.78</b>	2/5/2015	, Timed	350W MH Flood, Timed	
0.66	<b>13.43</b>	2/6/2018	, Timed	103 107W LED Roadway, Timed	2115070
0.70	<b>13.50</b>	2/6/2018	, Timed	106W LED Roadway, Timed	2111224
1.25	<b>17.90</b>	2/6/2018	, Timed	196W LED Roadway, Timed	2111108
1.33	<b>20.36</b>	2/6/2018	, Timed	206 213W LED Roadway, Timed	2111251
0.44	<b>21.93</b>	2/6/2018	, Timed	67W LED Post Top, Timed	2111253
0.63	<b>23.10</b>	2/6/2018	, Timed	99W LED Post Top, Timed	2111221
1.29	<b>22.63</b>	2/6/2018	, Timed	202 211W LED Area-Lighter, Timed	2111229

1.99	<b>25.42</b>	2/6/2018	, Timed	309 315W LED Area-Lighter, Timed	2111250
0.37	<b>9.62</b>	2/6/2018	, Timed	56W LED Roadway, Timed	2111255
1.00	<b>15.00</b>	2/6/2018	, Timed	157W LED Roadway, Timed	2115050GF
1.00	<b>19.00</b>	2/6/2018	, Timed	152W LED Area-Lighter, Timed	2115246GF
1.55	<b>21.90</b>	2/6/2018	, Timed	238 (236 & 240)W LED Flood, Timed	2114955
2.32	<b>27.07</b>	2/6/2018	, Timed	359 (354 & 363)W LED Flood, Timed	2115217AC
1.59	<b>20.36</b>	2/6/2018	, Timed	245W LED Mongoose, Timed	2115065AC
2.10	<b>23.36</b>	2/6/2018	, Timed	328W LED Mongoose, Timed	2115066
0.41	<b>19.48</b>	2/6/2018	, Timed	60W LED Classic Post Top, Timed	2115068
0.66	<b>20.07</b>	2/6/2018	, Timed	100W LED Classic Post Top, Timed	2115067
0.37	<b>6.25</b>	1/1/1995	, Timed	50W HPS Cobra, Timed	2115070
		03/18/2003 (NEMA)			
0.52	<b>6.16</b>	2/05/2005 (Cobra)	, Timed	70W HPS Cobra/Nema, Timed	2111257
		01/01/2009 (NEMA)			
0.81	<b>7.29</b>	2/05/2015 (Cobra)	, Timed	100W HPS Cobra/Nema, Timed	2111224
1.22	<b>8.20</b>	2/5/2015	, Timed	150W HPS Cobra, Timed	
1.92	<b>10.62</b>	2/5/2015	, Timed	250W HPS Cobra, Timed	
2.99	<b>12.99</b>	2/5/2015	, Timed	400W HPS Cobra, Timed	
2.99	<b>14.43</b>	2/5/2015	, Timed	400W HPS Mongoose, Timed	
0.52	<b>7.67</b>	02/03/1993 SI 2	, Timed	70W HPS Coach PT, Timed	
0.18	<b>6.87</b>		, Timed	27W L17 Roadway, Timed	
0.66	<b>9.11</b>		, Timed	105W L17 Roadway, Timed	
1.18	<b>16.26</b>		, Timed	182W L17 Roadway, Timed	
2.14	<b>25.20</b>		, Timed	330W L17 Area-Lighter, Timed	
1.29	<b>16.69</b>		, Timed	199W L17 Flood, Timed	
1.66	<b>28.31</b>		, Timed	255W L17 Flood, Timed	
1.44	<b>17.19</b>		, Timed	225W L17 Mongoose, Timed	
0.26	<b>16.06</b>		, Timed	39W L17 Granville PT, Timed	
0.26	<b>18.06</b>		, Timed	39W L17 Granville Enhanced PT, Timed	
0.48	<b>15.50</b>		, Timed	76W L17 Salem PT, Timed	

o +/- 5 watts.  
o to +/- 10%

old TSN

(70 - 100 W or up to 100 ft span) <sup>(1)</sup>  
(150 W or 100 -150 ft span) <sup>(1)</sup>  
(250 - 400W or above 150 ft span) <sup>(1)</sup>

a)

full, not the cutoff

Rate Operand	Rate Code
P-UG-422PT	422
P-OH-425WD	425
P-UG-523CO	523
P-UG-525PT	525
P-UG-580PT	580
P-UG-581PT	581
P-UG-582PT	582
P-UG-583PT	583
P-UG-584PT	584
P-UG-585PT	585
P-UG-586PT	586
P-UG-587PT	587
P-UG-588CO	588
P-UG-589ST	589
P-UG-590PT	590
P-UG-591CO	591
P-UG-592PT	592
P-UG-593PT	593
P-OH-594CO	594
P-UG-595CO	595
P-UG-596CO	596
P-OH-597WD	597
P-UG-599PT	599
P-UG-607CO	607
P-UG-612CO	612
P-UG-614CO	614
P-UG-615AL	615
P-UG-616AL	616
P-UG-622AL	622
P-UG-623AL	623



2111108

P-UG-624PT	624
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P-OH-626WD	626
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P-OH-627WD	627
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P-OH-637CO	637
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P-UG-641EX	641
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2111255  
2111257

RY/2115051BLK  
RY/2115247BLK

CP/2115219HLP  
CP/2115230HLP

RY/2115051BLK  
RY/2115247BLK

CP/2115219HLP  
CP/2115230HLP

			Charge Per Unit	
			Charge Per Unit	
Style	Description	Wire Feed	Pole/ Wire	Maintenance
Aluminum	10 ft, DB Aluminum	UG	7.83	1.3
Wood (Inaccessible)	30 ft	OH	6.03	0.17
Round	23 ft, DB Concrete	UG	20.42	0.14
Franklin Composite	PT, DB Composite	UG	23.91	1.1
Heritage	PT, DB Aluminum	UG	19.63	1.1
Capitol	PT, DB Aluminum	UG	26.7	1.1
Winston	PT, DB Fiber	UG	13.72	1.1
Waterford	PT, DB Concrete	UG	21.16	0.14
Aluminum	PT, DB Aluminum	UG	17.02	1.1
Charleston Banner	PT, DB Aluminum	UG	26.51	1.1
Charleston	PT, DB Aluminum	UG	20.43	1.1
Riviera	PT, DB Aluminum	UG	20.56	1.1
Standard	35 ft, DB Concrete	UG	23.58	0.34
Steel	30 ft, AB Steel	UG	39.21	1.68
Charleston HD	PT, DB Aluminum	UG	23.22	1.1
Tall Waterford	35 ft, DB Concrete	UG	28.82	0.14
Victorian	PT, DB Concrete	UG	24.58	0.14
Winston	PT, DB Aluminum	UG	13.72	\$0.00
Standard	40/45 ft, Concrete	OH	10	0.31
Standard	25/30 ft, DB Concrete	UG	21.54	0.14
Standard	45 ft, DB Concrete	UG	27.71	0.14
Wood	40/45 ft	OH	6.64	0.31
Standard	16 ft, DB Concrete	UG	16.03	0.14
Std, >100ftspan, 70/100W,	35 ft, DB Conc	UG	11.33	0.34
Std, 100-150ftspan,150W,	35 ft, DB Conc	UG	15.38	0.34
Std, >150ftspan,250/400W	35 ft, DB Conc	UG	23.24	0.34
Aluminum	28 ft, DB Aluminum	UG	11.79	0.34
Aluminum	27 ft, DB Aluminum	UG	27.86	0.34
Aluminum	37 ft, DB Aluminum	UG	40.07	0.34
Waterside	38 ft, DB Aluminum	UG	\$ 15.03	\$0.00

Fiber	PT, DB Fiber	UG	7.12	1.3
Wood	30 ft	OH	2.61	0.17
Wood	35 ft	OH	2.95	0.17
Standard	35 ft, Concrete	OH	5.34	0.17
Existing Pole		UG	4.95	0.34

Closed to new business

NOTE: Arlington, PT, DB, Alum (585) and Aluminum 30ft (590), closed to new business April 18, 2000, no Customers.  
Rates reused for Charleston Banner (585) and Charleston HD (590) effective September 11, 2007.

For lighting, the non-fuel recovery clause char

Net Fuel (includes Fuel Credit):  
Fuel:  
Fuel Credit:  
Capacity (CCR):  
Conservation (ECCR):  
Environmental (ECRC):  
Storm Protection Plan (SPP):

Pole/Wire & Maint	Closed to New Business	Type		Description
		Type	Type	
9.13	4/18/2000	PT		Aluminum, 10 ft, DB Aluminum
6.2	3/18/2003	WD		Wood (Inaccessible), 30 ft
20.56	2/6/2018	CO		Round, 23 ft, DB Concrete
25.01		PT		Franklin Comp 2005665
20.73	4/18/2000	PT		Heritage, PT, DB Aluminum
27.8	4/18/2000	PT		Capitol, PT, DB Aluminum
14.82	2/6/2018	PT		Winston, PT, D 2005649
21.3		PT		Waterford, PT, 2002832
18.12	4/18/2000	PT		Aluminum, PT, DB Aluminum
27.61		PT		Charleston Banner, PT, DB Aluminum
21.53		PT		Charleston, PT 2005654
21.66	4/18/2000	PT		Riviera, PT, DB Aluminum
23.92		CO		Standard, 35 ft, 2002841
40.89	4/18/2000	ST		Steel, 30 ft, AB Steel
24.32		PT		Charleston HD, PT, DB Aluminum
28.96		CO		Tall Waterford, 35 ft, DB Concrete
24.72		PT		Victorian, PT, 2002952
13.72		PT		Winston, PT, DB Aluminum
10.31		CO		Standard, 40/45 ft, Concrete
21.68		CO		Standard, 25/30 ft, DB Concrete
27.85		CO		Standard, 45 ft, DB Concrete
6.95		WD		Wood, 40/45 ft 2002842
16.17		PT		Standard, 16 ft, DB Concrete
11.67	5/7/2009	CO		Std, >100ftspar 2002845
15.72	5/7/2009	CO		Std, 100-150ftspan,150W,, 35 ft, DB Conc
23.58	5/7/2009	CO		Std, >150ftspan,250/400W, 35 ft, DB Conc
12.13		AL		Aluminum, 28 ft, DB Aluminum
28.2		AL		Aluminum, 27 ft, DB Aluminum no tenon
40.41		AL		Aluminum, 37 ft, DB Aluminum
15.03		AL		Waterside, 38 ft, DB Aluminum

Customer

8.42	04/18/2000 SL2 02/03/2003 OL1	PT	Fiber, PT, DB F	2005649
2.78		WD	Wood, 30 ft	
3.12		WD	Wood, 35 ft	2002842
5.51		CO	Standard, 35 ft,	2002845
5.29		EX	Existing Pole,	

	¢/kWh	\$/kWh	
	3.136	0.03136	
	3.136	0.03136	effective 01/01/2021
	0.000	0.00000	effective 09/01/2020
	0.000	0.00000	effective 01/01/2021
	0.118	0.00118	effective 01/01/2020
	0.081	0.00081	effective 01/01/2021
	0.354	0.00354	effective 01/01/2021
	<u>3.689</u>		
Base Energy	2.373	0.02373	effective 01/01/2021
Gross Receipts Tax %		0.025641	
Clause Charges + SPP:		0.00553	
Clauses + Base Energy:		0.02926	
Charge for metered (customer owned) lighting		\$10.52	effective 01/01/2020
Fuel, Clauses, Base Energy		0.06062	
Fuel & Clauses		0.03689	

CALCULATION OF MONTHLY ENERGY CONSUMPTION/CHARGES - LED FIXTURES

	912	914	921	926	932	935	937	941	945	947
	Roadway 27 W	Roadway 47 W	Roadway 88 W	Roadway 105 W	Roadway 133 W	Roadway 143 W	Roadway 145 W	Roadway 182 W	Roadway 247 W	Area 330 W
A Average Operating Wattage	27	47	88	105	133	143	145	182	247	330
B Annual Operating Hours - Dusk-to-Dawn Service	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200
C Annual Operating Hours - Timed Service	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100
D Annual Energy Consumption- Dusk-to-Dawn Service (kWh) (A x B)/1000	113	197	370	441	559	601	609	764	1037	1386
E Annual Energy Consumption-Timed Service (kWh) (A x C)/1000	57	99	185	221	279	300	305	382	519	693
F Average Monthly Energy Consumption - Dusk-to-Dawn Service (kWh) (D/12)	9	16	31	37	47	50	51	64	86	116
G Average Monthly Energy Consumption - Timed Service (kWh) (E/12)	5	8	15	18	23	25	25	32	43	58
H Dusk-to-Dawn Service - Monthly Base Energy Charge (F x \$0.02727)	\$0.25	\$0.44	\$0.85	\$1.01	\$1.28	\$1.36	\$1.39	\$1.75	\$2.35	\$3.16
I Timed Service - Monthly Base Energy Charge (G x \$0.02727)	\$1.36	\$2.18	\$4.09	\$4.91	\$6.27	\$6.82	\$6.82	\$8.73	\$11.73	\$15.82



SOURCE 2020\_1111\_PVT\_Lighting Material Issues\_2015-2020Sept\_LdlTorre\_Chunt.xlsx

Source (All)

Luis & Carla (Issued & "notIssued")

Values Year

Rev 2/25/21 1245pm

TSN	Description	Avg Annual Usage (dni 0 Yrs)	Weighted Avg \$/unit
2000223	DECAL, "7" PREMIUM LIGHTING DIE CUT 7/8	100	0.24
2000234	DECAL, "X1" LUMINAIRE BLACK ON RED 1-1/2	196	0.9
2000235	DECAL, "10" LUMINAIRE BLACK ON YELLOW 1-	135	0.72
2000242	DECAL, "25" LUMINAIRE BLACK ON YELLOW 1-1/2 X	1	0.76
2000243	DECAL, "40" LUMINAIRE BLACK ON YELLOW 1-1/2 X	1	0.38
2000244	DECAL, "40" LUMINAIRE BLACK ON RED 1-1/2 X	1	0.77
2000257	DECAL, "25" LUMINAIRE 250W BLACK ON YELL	101	1.14
2000258	DECAL, "40" LUMINAIRE 400W BLACK ON YELLOW 3 X	1	1.26
2000261	DECAL, "X7" LUMINAIRE BLACK ON RED 1-1/2 X	1	0.57
2000312	DECAL, "35" VINYL 350 PULSE START LUMINA	1	1.91
2000943	ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	1	0.04
2001046	TERMINAL, DISCONNECT MALE FULLY INSULATE	64	0.37
2001337	TX,OH,10 kVA,7.62/13.2Y,120,FR3,TAPS	2	728.85
2001338	TX,OH,15 kVA,7.62/13.2Y,120,FR3,TAPS	3	762.4
2001340	TX,OH,37.5 kVA,7.62/13.2Y,120,FR3	1	1363.89
2001349	TX,OH,37kVA,2.4/4.1X7.6/13.2,120/240,FR3	2	1914.37
2001350	TX,OH,50kVA,2.4/4.1X7.6/13.2,120/240,FR3	2	2619.54
2001365	TX,OH,10 kVA,7.62/13.2Y,120/240,FR3	2	648.18
2001366	TX,OH,15 kVA,7.62/13.2Y,120/240,FR3	2	698.34
2001367	TX,OH,25 kVA,7.62/13.2Y,120/240,FR3	2	1057.32
2001368	TX,OH,37.5 kVA,7.62/13.2Y,120/240,FR3	2	1278.23
2001369	TX,OH,50 kVA,7.62/13.2Y,120/240,FR3	2	1472.9
2001370	TX,OH,75 kVA,7.62/13.2Y,120/240,FR3	1	1901.72
2001371	TX,OH,100 kVA,7.62/13.2Y,120/240,FR3	1	3241.95
2001379	TX,OH,167kVA,7.62/13.2Y,120/240,FR3,TAPS	2	5459.48
2001408	TX,OH,75 kVA,7.62/13.2Y,240/480,FR3,TAPS	2	2433
2001425	TX,OH,25kVA,7.62/13.2Y,277/480Y,FR3,TAPS	2	1135.88
2001518	TX,PM,LP,1P,25 kVA,240/120,FR3,SS	1	2252.15
2001519	TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS	1	2372.58
2001542	TX,PM,LP,75 kVA,208Y/120,FR3,Taps,SS	2	7813.58
2002207	SWITCH, DISCONNECT 15KV 900A SPST	2	224.78
2002245	SWITCH, VACUUM, 14.4KV, 95KV BIL, 200 AM	2	1078.96
2002246	SWITCH, CAPACITOR CONTROL 14.4 KV 200A S	1	675.51
2002249	CAPACITOR CNTRL RCVRS (CCR) 13KV 120V EX	1	294.87
2002816	POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	7	109.75
2002817	POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	5	120.19
2002818	POLE, CONCRETE 30 FT TYPE II, W/ 2-3/8" OD POLE TOP TE	1	337.47

2002821	POLE, WOOD,35 FT CLASS 6 PENTA TREATED, NO CUT GAIN.	2	173.23
2002823	POLE, WOOD 35 FT CLASS 4 PENTA TREATED	1	260.27
2002826	POLE, WOOD 40 FT CLASS 4 PENTA TREATED	1	399.09
2002827	POLE, WOOD, 45 FT, CLASS 2, PENTA TREAT	1	562.76
2002828	POLE, WOOD, 40 FT CLASS 2, PENTA TREATED	1	519.96
2002830	POLE, WOOD,30 FT CLASS 6 PENTA TREATED, NO CUT GAIN	1	177.72
2002831	POLE, CONCRETE 25 FT TYPE I, WITH 2-3/8"	5	374.1
2002832	POLE, CONCRETE 16 FT OCTAGONAL, BLACK PR	43	874.7
2002833	POLE, CONCRETE 16 FT OCTAGONAL, BROWN, PREMIUM LTG	1	693.76
2002834	POLE, WOOD, 45 FT CLASS 1, CCA TREATED	2	379.39
2002835	POLE, WOOD, 50', CLASS 1, CCA TREATED	2	444.73
2002836	POLE, WOOD 30 FT CLASS 6 CCA TREATED NO CUT GAIN	1	84.78
2002837	POLE, WOOD, 30FT CLASS 4, CCA TREATED	6	115.05
2002838	POLE, CONCRETE 30 FT TYPE 1	6	333.27
2002839	POLE, CONCRETE 35 FT TYPE 4	1	585.73
2002840	POLE, CONCRETE 30 FT TYPE I W/2-3/8" OD	2	627.02
2002841	POLE, CONCRETE 35 FT TYPE I W/2-3/8" OD	112	372.59
2002842	POLE, WOOD, 35 FT, CLASS 4, CCA TREATED.	37	141.93
2002843	POLE, WOOD, 35 FT, CLASS 6, CCA TREATED NO CUT GAIN	1	102.78
2002844	POLE, CONCRETE 35 FT TYPE I OCTAGONAL, B	16	1627.63
2002845	POLE, CONCRETE 35 FT TYPE 1	636	371.46
2002846	POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE	9	443.01
2002847	POLE, WOOD, 40 FT CLASS 4, CCA TREATED.	6	193.9
2002849	POLE, CONCRETE 40 FT TYPE 3	6	580.94
2002850	POLE, CONCRETE 35 FT PRESTRSD OCTAGONAL	1	670.89
2002851	POLE, CONCRETE 40 FT TYPE I OCTAGONAL, B	1	2227.27
2002857	POLE, WOOD, 40FT CLASS 2, CCA TREATED	4	272.68
2002858	POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	6	323.52
2002859	POLE, WOOD, 45 FT CLASS 4, CCA TREATED.	1	236.36
2002860	POLE, WOOD, 45FT CLASS 3, CCA TREATED	8	275.05
2002864	POLE, CONCRETE 35 FT PRESTRESSED OCTAGON	2	684.64
2002865	POLE, CONCRETE, 23FT BROWN, ROUND P/N SE	4	1347.59
2002871	POLE, WOOD 60 FT, CLASS 1, SOUTHERN YELL	2	659.04
2002881	POLE, WOOD 65 FT, CLASS 1, SOUTHERN YELL	1	1010.91
2002895	POLE, CONCRETE 45 FT PRESTRESSED TYPE II	10	708.61
2002896	POLE, CONCRETE 45 FT TYPE III W/2-3/8" O	18	618.4
2002900	POLE, CONCRETE, 45 FT TYPE III W/2-3/8" OD TENON, ACCES	1	768.01
2002901	POLE, CONCRETE 45 FT SPUN DIRECT BURIAL	1	1267.24
2002952	POLE, CONCRETE, 16FT PRESTRESSED FLUTED,	76	1657.91
2002953	POLE, CONCRETE 16FT PRESTRESSED FLUTED G	2	1673.66
2002962	POLE, CONCRETE 16 FT PRESTR, OCTOGONAL,	1	552.37
2002964	POLE, CONCRETE 35 FT PRESTRESSED, OCTAGO	73	1657.71
2002965	POLE, CONCRETE 16FT NATURAL/MOLD FINISH	7	322.41
2002966	POLE, CONCRETE 16FT PRETR RED BRICK OCTAGONAL SHAPE	1	1033.32
2002967	POLE, CONCRETE 16FT PRETR GREEN OCTAGONAL PREM. LIGH	1	1033.32
2003117	POLE, WOOD, 55' CLASS 1 CCA TREATED	2	524.11
2003119	CAPACITOR BANK,600 KVAR,13.2KV,WYE,95KVB	2	5831.46

2003120	CAPACITOR BANK,1200 KVAR,13.2KV,WYE,95KV	2	7390.97
2003256	FUSE,CRTRG NON-RNW 10A 600V 1.5 X 13/32	105	2.9
2003258	FUSE, CARTRIDGE NON-RENEW 15A 600V 1-1/2	88	3.16
2003259	FUSE,CRTRG NON-RNW 20A 600V 1.5 X 13/32	21	2.93
2003261	FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	11659	2.94
2003498	CLAMP, SERVICE ALUMINUM #4 - #2 STR	2	1.21
2003523	COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 DIE2 IN.	1	0.37
2003631	FOUNDATION, ANCHOR SCREW 15 IN, GALV	1	187.61
2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	6	37.98
2003691	BRACKET, DUAL CUTOUT ARRESTER & POTHEAD DWG. Q5443 SHT.	2	60.87
2003692	BRACKET, TRIMOUNT, ARSTR & POTHEAD, TEMS 2.02 DWG.5443	2	64.41
2003769	BRACKET, ADAPTER FOR LUM BRACKETS, 1/4"	1	100.41
2003846	CUTOOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	6	70.74
2003848	CUTOOUT, 15KV, 200A FUSE HLDR, 300A UNVRS	2	119.35
2003849	CUTOOUT, 15KV, 300A SOLID BLADE, 300A UNV	2	106.75
2003877	HOOK, DRIVE PILOT POINT4-3/4" OVERALL LENGTH	1	0.65
2003961	SCREW, LAG, 2" X 3/8",MECHANICALLY PLATE	1	0.16
2004052	HOLDER, WIRE SERVICE GALV FULL THD WOOD SCREW #22 X 3	1	4.09
2004130	CABLE, CONTROL 4C 12AWG 600V CU DB	2	0.84
2004165	CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 6 AWG,	3440	1.22
2004166	CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	24716	0.59
2004167	CABLE, UNDERGROUND COPPER, TRIPLEX, 600V	905	1.62
2004182	CONDUCTOR, COPPER BARE #6 SOL HD	1	0.13
2004183	CONDUCTOR, COPPER, BARE #4 SOLID HD	1	1.02
2004188	CONDUCTOR, COPPER BARE 1/0 7 STR HD SALV	1	2.2
2004205	CONDUCTOR, COVERED OVERHEAD, 336.4 KCMIL	1	4.02
2004316	CONDUCTOR, BARE, 336 ACSR MERLIN	2	0.62
2004328	CONDUCTOR, BARE, 1590 ACSS LAPWING	2	3
2004331	CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	2	0.14
2004332	CONDUCTOR, AAC BARE 1/0 7 STR HD	1	0.06
2004334	CONDUCTOR, BARE OVERHEAD, 2/0 AWG, AAAC,	235	0.26
2004338	CABLE, OVERHEAD SECONDARY, TRIPLEX, 2/0	126	1.15
2004339	CABLE, OVERHEAD SECONDARY, TRIPLEX, 4/0	2	1.78
2004340	CABLE, OVERHEAD SECONDARY, QUADRUPLEX, 2	2	1.43
2004341	CABLE, OVERHEAD SECONDARY, QUADRUPLEX, 4	2	2.11
2004343	CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI	2	1.9
2004348	CABLE, ALUMINUM, 15KV, 3/C, 1/0 AWG SOLI	2	4.93
2004351	CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	2	0.98
2004352	CABLE, YALE, AL, UG, 600V, 1/C, 2/0 AWG,	2	0.38
2004354	CABLE, SWEETBRIAR, AL,UG,600V,2/C,4/0 AW	2	1.37
2004355	CABLE, BELOIT, AL, UG, 600V, 1/C, 4/0 AW	2	0.49
2004356	CABLE, XHHW-2,AL,UG,600V,2/C,500 MCM, 37	79	4.12
2004360	CABLE, SERVICE DROP AL #4 DUPLEX SPANIEL	132	0.29
2004361	CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG	3399	0.47
2004362	CABLE, SERVICE DROP AL #2 TRIPLEX CLAM	2	0.56
2004363	CABLE, SERVICE DROP AL #2 QUADRUPLEX MUS	1	0.81
2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	142	0.99

2004365	CABLE, SERVICE DROP AL 3-2/0 & 1-1/0 NEU	2	1.2
2004366	CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	2	1.35
2004376	GLASSWARE, GLASS REPLACEMENT FOR TEC# 55	1	44.7
2004381	STRAP, GALV 1 IN 1 HOLE	300	0.67
2004389	CONDUIT, GALVANIZED 2 IN 10 FT WITH COUPLING	2	6.57
2004393	COUPLING, GALV 2 IN	2	2.74
2004394	ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS	2	26.25
2004395	ELBOW, GALV 2 INCH 90 DEG THD 15" MIN RADIUS	2	34.09
2004405	WEATHERHEAD, GALV 2 IN	1	9.32
2004410	CONDUIT, GALVANIZED 3 IN 10 FT WITH COUPLING	1	11.06
2004412	COUPLING, GALV 3 IN	1	4.29
2004413	ELBOW, GALV 3 IN 45 DEG THD 13 IN RAD	2	23.81
2004414	ELBOW, GALV 3 IN 90 DEG THD	2	25.29
2004463	CONDUIT, PVC SCH 40 1 IN 10 FT WITH COUP	2	0.62
2004465	CONDUIT, PVC, FLEXIBLE, 1 INCH X 100 FT	60	0.88
2004488	CONDUIT, PVC 2 IN 20 FT BELL END	978	0.85
2004489	CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	50	0.72
2004490	CONDUIT, PVC SCH 80 2 IN 10 FT W/COUPLIN	1	0.81
2004492	ADAPTER, CONDUIT PVC FEMALE 2 IN SCH 40 SOC X	1	0.48
2004507	COUPLING, PVC 2 IN SCH 40 TEMS	23	0.6
2004509	CONDUIT, PVC SCH 40 3 IN 10 FT W/BELL EN	2	1.33
2004510	ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH 40 TEMS	2	0.88
2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	6	1.26
2004517	CONDUIT, PVC P & C 3 IN 20 FT	80	1.58
2004519	ADAPTER, PVC FEMALE 3 IN	1	1.9
2004521	COUPLING, PVC 3 IN SCH 40 TEMS	2	2.73
2004523	ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40 TEMS	2	3.25
2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40 TEMS	2	3.9
2004530	CONDUIT, PVC SCH 40 4 IN 20 FT WITH COUP	2	1.68
2004556	CONDUIT, PVC, 6" X 20', SCHEDULE 40	2	6.73
2004634	TERMINATOR, POTHEAD, 1/0 TO 4/0, STEM	2	48.52
2004643	TERMINATOR POTHEAD 15KV 1000MCM JCN	2	96.88
2004646	TERMINATOR POTHEAD 15KV INDOOR 4/0 JCN	2	34.86
2004655	HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	3261	17.93
2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTOUT, ARRESTER &	1	10.83
2004661	BRACKET, "L" 11IN PROJECTED LGTH FOR MOUNTING CUTOUT	1	9.12
2004663	CABLE, FIBER OPTIC 8-FT LENGTH	2	32.42
2004719	HANDHOLE, SPLICING SINGLE PHASE PRIMARY	2	546.91
2004727	HANDHOLE, SECONDARY URD 10" X 13" LOAD-B	12	122.54
2004729	HANDHOLE, SECONDARY URD 14" X 25" LOAD B	24	139.3
2004736	HANDHOLE, LIGHT TRUCK TRAFFIC RATED 24"X	2	299.17
2004883	TERMINATOR, LOADBREAK 200 AMP, 1/0 SOL	2	36.66
2005023	CONNECTOR,URD,600V,3POSITION,INSUL,3/16'	3619	20.9
2005073	SPLICE, GEL CAP 600V USED WITH #10,#6,#4	1152	20.9
2005126	SWITCHGEAR, PADMOUNT PMH-9 3PH 14.4KV 60	2	9058.18
2005258	LUMINAIRE, SHOEBOX MH 400W 120/208/240/277V GRY PR	1	269.48
2005259	LUMINAIRE, SHOEBOX, GRAY, 350W MH, 120/2	4	347.01

2005269	LUMINAIRE, SHOEBOS 400W HPS GRAY 120/208	25	364.16
2005271	LUMINAIRE, SHOEBOS HPS 250W 120/208/240/	4	313.18
2005273	LUMINAIRE, SHOEBOS, 1000W METAL HALIDE, MULTI-VOLT BALL	1	622.97
2005274	LUMINAIRE, SHOEBOS 1000W METAL HALIDE MULTI-VOLT BALL	1	551.84
2005275	LUMINAIRE, SHOEBOS 1000W METAL HALIDE MULTI-VOLT BALL	1	595.77
2005278	LUMINAIRE, SHOEBOS, 1000W MH, MULTI-TAP BALLAST	1	591.76
2005279	LUMINAIRE, SHOEBOS 175MH GRAY (TAMPA STADIUM ONLY)	1	254.84
2005280	LUMINAIRE, SHOEBOS, GRAY, 150W MH, 120/2	8	300.81
2005281	LUMINAIRE, SHOEBOS 175 MH BRONZE MULTI-T	1	247.1
2005282	LUMINAIRE, SHOEBOS, DARK BRONZE, 150W MH	3	269.89
2005284	BRACKET, SHOEBOS DUAL MTG 180DEG GRAY FOR TECO 5580	1	117.72
2005286	BRACKET, SHOEBOS DUAL MTG 180DEG BRZ FOR TECO #5580	1	126.08
2005288	BRACKET, SHOEBOS SINGLE MTG BRZ FOR TECO #5580270 PR	1	115.11
2005289	BRACKET, SHOEBOS SINGLE MTG GRAY FOR TEC #5580260 PR	1	83.89
2005296	POWERDOOR, BALLAST ASSEMBLY, 400W, 120/2	11	105.1
2005297	BALLAST, REPLACEMENT 1000W METAL HALIDE	73	158.96
2005300	BALLAST, REPLACEMENT TRAY 1000W MH 480V	12	162.7
2005303	LUMINAIRE, SHOEBOS 1000W MH GRAY MULTI-TA	1	662.96
2005304	LUMINAIRE, SHOEBOS 1000W MH BRONZE, MULTI	10	632.56
2005305	LUMINAIRE, SHOEBOS 1000W MH GREY, MULTI-T	4	626.02
2005306	LUMINAIRE, SHOEBOS 1000W MH BRONZE, MULTI	18	640.75
2005308	BRACKET, SHOEBOS SINGLE MTG, BLACK PREMI	116	99.24
2005309	LUMINAIRE, SHOEBOS, 1000W MH, BRONZE, FWT-IV,	6	663.27
2005310	LUMINAIRE, SHOEBOS, 1000W MH, BRONZE, MCIII M	13	645.87
2005311	LUMINAIRE, SHOEBOS, 1000W MH, GRAY, FWT, MULT	15	616.1
2005312	LUMINAIRE, SHOEBOS, 1000W MH, GRAY, MULTI-TA	13	556.53
2005313	LUMINAIRE, SHOEBOS 400W HPS BLACK 120/24	5	337.15
2005320	FOUNDATION, ANCHOR TYPE FOR ST LITE 11-1	15	366.02
2005321	FOUNDATION, ANCHOR TYPE FOR ST LITE 15 I	9	451.32
2005322	BASE, TRANSFORMER CAST ALUM 17 IN HIGH W	1	651.03
2005323	BASE, 37FT	1	414.66
2005325	BRACKET, RELAY PHOTO CONTROL POLE MTG	23	15.65
2005330	BRACKET, STREET LIGHT GALV 20 IN	830	16.26
2005331	BRACKET, SHOEBOS, QUAD MTG, GRAY PREMIUM	17	379.85
2005332	BRACKET, SHOEBOS, DUAL MTG 180 DEGREE, GRAY	42	114.12
2005333	BRACKET, SHOEBOS LUMINAIRE, TRIPLE PREMI	5	214.17
2005335	BRACKET, SHOEBOS, TWIN PARALLEL MTG GRAY	20	377.45
2005336	BRACKET, SHOEBOS, QUAD MT., BLACK, PREM.	1	252.49
2005337	BRACKET, SHOEBOS, TRIPLE MTG, BLACK, PRE	5	197.61
2005338	BRACKET, SHOEBOS, DUAL MTG 180 DGREE, BLACK	24	136.5
2005339	BRACKET, SHOEBOS, TWIN PARALLEL MNTG DK	1	190.47
2005340	BRACKET, SHOEBOS, SINGLE MTG., BRONZE, P	19	84.18
2005341	BRACKET, SHOEBOS, DUAL MTG. 180 DEG., BR	16	156.68
2005343	BRACKET, SHOEBOS, QUAD MTG., DK. BRONZE,	2	254.55
2005344	BRACKET, FLOODLIGHT, TRIPLE MTG IN-LINE, BRONZE, PREM.	1	440.5
2005345	BRACKET, FLOODLIGHT, DUAL MTG., BRONZE,	2	159.91
2005346	BRACKET, FLOODLIGHT, QUAD-MTG. IN LINE, BRONZE, PREM LT	1	284.46

2005347	BRACKET, SHOEBOX LUMINAIRE, STEEL, TRI-M	1	149.3
2005348	BRACKET, SHOEBOX, TWIN PARALLEL, WOOD POLE, GRAY	1	478.3
2005350	BRACKET, STREET LIGHT GALV 4 FT	2966	23.89
2005351	BRACKET, STREET LIGHT GALV 6 FT	624	38.47
2005353	BRACKET, SHOEBOX, DUAL MTG, 90 DEG., GRA	6	182.31
2005354	BRACKET, STREET LIGHT GALV 8 FT W/SUPPOR	40	74.09
2005355	BRACKET, SHOEBOX 90 deg tripl brnz, STEEL	1	194.41
2005356	BRACKET, STREET LIGHT GALV 10 FT W/SUPPO	37	121
2005357	BRACKET, SHOEBOX 90 DEG TRIPLE GRAY	16	203.86
2005358	BRACKET, STREET LIGHT GALV. 12 FT.	21	162.3
2005359	BRACKET, STREET LIGHT, 12' GALV STEEL, 1	80	181.19
2005360	BRACKET, STREET LIGHT, 4' TAPERED ALUM.,	9	152.25
2005361	BRACKET, STREETLIGHT, 12' GALV STEEL, 5'	109	241.59
2005362	BRACKET, STREET LIGHT ALUM 6 FT AL POLE	13	176.27
2005363	BRACKET, SHOEBOX, DUAL MOUNT, 90 DEG, BR	2	163.6
2005364	BRACKET, POST TOP TWIN PARALLELE MTG, FI	9	346.18
2005365	BRACKET, STREET LIGHT ALUM 6 FT TAPER TR	11	299.12
2005366	BRACKET, STREET LIGHT ALUM 8 FT TAPER TR	3	320.04
2005367	BRACKET, SHOEBOX, DUAL MOUNT, 90 DEGREE,	10	128.81
2005368	BRACKET, STREET LIGHT ALUM 10 FT TAPER T	2	313.02
2005370	BRACKET, STREETLIGHT ALUM 12 FT TAPER TR	15	316.93
2005371	BRACKET, STREETLIGHT 4FT, TAPERED AL, 2"	3	192.14
2005372	BRACKET, STREET LIGHT ALUM 15 FT TAPER T	3	443.68
2005373	BRACKET, STREETLIGHT, GALVANIZED, 9 1/2"	525	47.26
2005374	BRACKET, SINGLE MOUNT, SHOEBOX GALVANIZE	354	46.09
2005377	POWERDOOR BALLAST ASSEMBLY, 400W, 120/20	101	126.7
2005378	SHIELD, LUMINAIRE, ALUMINUM	10	28.19
2005384	COVERS, STREET LIGHT POLE BASE	1	55.28
2005390	BREAKER, CIRCUIT 60 AMP 480V AC PREMIUM	1	357.26
2005391	SHORTING CAP, PHOTO CONTROL RECEPTACLE	1644	3.04
2005397	CONNECTOR, FUSED WATERPROOF URD #6 LINE	8796	10.4
2005401	LUMINAIRE, SALEM, WHT PT, 175W MH, MULTI-TAP, PREM	1	386.45
2005402	LUMINAIRE, SALEM, WHITE 150W MH, 120/208	1	455.53
2005403	LUMINAIRE, SALEM, BLACK, 150W MH, 120/20	28	493.02
2005404	STANDOFF, PHOTO CONTROL EXTENSION ANSI C	9	24.57
2005405	LUMINAIRE, ENHNCD CLASSIC, BLK PT, 100W HPS	103	699.26
2005406	LUMINAIRE, ENHNED CLASSIC, BLK, PT, 100W HP	2	696.16
2005407	LUMINAIRE, ENHNCD CLASSIC, WHT PT, RD WY, 175W MH, MULTI-TAP	1	638.19
2005408	LUMINAIRE, ENH CLASSIC, BLACK/GOLD, 150W	16	703.74
2005409	LUMINAIRE, ENHANCD CLASSIC, RDWY, 100W, HPS,	7	687.15
2005410	FLOODLIGHT, POWER SPOT, METAL HALIDE, 1000W	9	411.96
2005414	GLASSWARE, REPLACEMENT COOPER LIGHTING 2	3	36.01
2005416	GLASSWARE, REPLACEMENT HPS CONTEMPORARY	2	19.29
2005418	GLASSWARE, REPLACEMENT , HPS COLONIAL, 1	1	41.39
2005422	SHIELD, TOP AND TWO SIDES, ALUMINUM, FOR	2	50.54
2005423	SHIELD, GLARE 250 & 400W G.E. MV & HPS L	1	87.71
2005424	SHIELD, GLARE, 250W CORBA, BACK SIDE, TE	2	10.78

2005425	SHIELD, GLARE, 250W CORBA, FRONT SIDE, T	1	10.65
2005426	SHIELD, GLARE, 250W CORBA, LEFT AND RIGH	1	17.09
2005432	SHIELD, CURB SIDE, FOR GE 250/400W SHOEB	1	90.35
2005433	BARRIER, BIRD 4FT DADDI LONG LEGS W/DEL R	1	57.19
2005434	SHIELD, VANDAL FOR 100W COBRA CUTOFF (TE	1	373.15
2005437	GLASSWARE, REPLACEMENT FLAT GLASS, FOR 4	5	38.38
2005438	GLASSWARE, REPLACEMENT FLAT GLASS, FOR 1	11	35.12
2005440	GLASSWARE, ACRYLIC REPLACEMENT, 50-150W,	19	27.52
2005448	GLASSWARE, REPLACEMENT AND DOOR, 1000W GR	5	76.8
2005453	GLASSWARE, REPLACEMENT, FOR GE SHOEBOX F	1	21.6
2005454	GLASSWARE, REPLACEMENT AND DOOR, BRONZE,	5	76.8
2005455	GLASSWARE, REPLACEMENT AND DOOR, 400W SH	2	78.28
2005456	GLASSWARE, GLASS REPLACEMENT, G.E. LUMIN	11	14.61
2005458	GLASSWARE, REPLACEMENT, HPS AND MH CLASS	10	197.94
2005459	GLASSWARE, REPLACEMENT TYPE III G.E. 40	10	54.57
2005460	GLASSWARE, REPLACEMENT, TYPE 3 HOLOPHANE	1	111.34
2005461	GLASSWARE, REPLACEMENT, HOLOPHANE ENHANC	1	239.03
2005462	GLASSWARE, REPLACEMENT FOR GE POWER SPOR	2	62.73
2005464	GLASSWARE, REPLACEMENT FOR GE POWER SPOR	1	61.21
2005470	FLOODLIGHT, POWER SPOT, METAL HALIDE, 1000W	1	215.2
2005472	LUMINAIRE, CLASSIC, WHT PT, 100W HPS, MULTI-	6	604.8
2005473	LUMINAIRE, CLASSIC, WHT PT, 175W MH, MULTI-TAP, PREM, 2PCS	1	516.66
2005474	LUMINAIRE, CLASSIC, WHITE, 150W MH, 120/	2	501.27
2005475	LUMINAIRE, CLASSIC, BLK PT, 175W MH, MULTI-T	2	528.28
2005476	LUMINAIRE, CLASSIC, BLACK, 150W MH, 120/	6	569.89
2005477	LUMINAIRE, NITETORCH, HPS, 50W, 120V, NP	1	103.33
2005480	FLOODLIGHT, POWER SPOT, METAL HALIDE, 1000W PREMIU	1	221.07
2005481	BRACKET, SHOEBOX, SINGLE MTG, GRAY, PREM	132	84.34
2005482	LUMINAIRE, COLONIAL, BLK PT, 175W MH, MULTI-TAP, WIRED 240V,	1	543.82
2005483	LUMINAIRE, COLONIAL, BLACK, 150W MH 120/	13	580.4
2005484	LUMINAIRE, COLONIAL, WHT PT, 175W MH, MULTI-TAP, PREM.	1	547.19
2005485	LUMINAIRE, COLONIAL, WHITE, 150W MH, 120	1	574.08
2005486	BRACKET, FLOODLIGHT, DUAL MTG, GRAY, PRE	15	170.98
2005489	FLOODLIGHT, METAL HALIDE 1000W MULTI-VOL	33	348.54
2005491	FLOODLIGHT, MH, 400W, 120/208/240/277, B	1	213.6
2005492	FLOODLIGHT, BLACK, 350W MH, 120/208/240/	1	243.29
2005497	LAMP, HIGH PRESSURE SODIUM 50W CLEAR GLA	20	9.89
2005498	LAMP, MERCURY VAPOR 175W CLEAR, MOGUL BA	12	13.82
2005505	LAMP, HIGH PRESSURE SODIUM 100W UNIVERSA	18234	6.89
2005507	LAMP, METAL HALIDE 175W UNIVERSAL MOUNTI	356	9.63
2005508	LAMP, METAL HALIDE 150WATT, PULSE START	230	20.38
2005510	LAMP, MH400W, UNIVERSAL BURNING, MOGUL BASE	1154	11.68
2005511	LAMP, METAL HALIDE 350WATT, PULSE START	308	25.35
2005513	LAMP, METAL HALIDE 1000W, UNIV. BURN, CO	228	30.26
2005518	LAMP, INCANDESCENT 10W 120V MEDIUM BASE	2678	0.6
2005519	LUMINAIRE, YBOR CITY ARCH WAY, BRONNERS	57	178.99
2005520	SOCKET, LAMP USE WITH TEC 5585750 & 5585	200	2.71

2005522	FLOODLIGHT,HPS,250W W/PHOTOCONTROL RECEP	52	200.06
2005523	FLOODLIGHT, HPS, 400W, 120, CWA P/N P54S	53	210.59
2005528	FLOODLIGHT, HPS, 400W, 480V, TENON MTG., PREMIUM LTG.	1	290.62
2005529	FLOODLIGHT, HPS, 400W, 120/240V, TENON M	7	320.48
2005530	LUMINAIRE, AIRCRAFT OBSTRUCTION LIGHT, T	1	240.43
2005531	FLOODLIGHT, MH, 400W, 120/240V, TENON MTG., PREMIUM LTG	1	240.35
2005532	FLOODLIGHT, DARK BRONZE, 350W MH, 120/20	10	266.82
2005534	FLOODLIGHT, METAL HALIDE, 1000W, 120/208	4	308.42
2005537	FLOODLIGHT, MH, 1000W, 480V, TENON MTG.,	3	446.07
2005538	FLOODLIGHT, MH, 1000W, 120/240V, TENON M	16	343.07
2005539	FLOODLIGHT, MH, 400W, 480V, TENON MTG., PREMIUM LTG.	1	246.92
2005540	FLOODLIGHT, DARK BRONZE, 350W, MH,480V	2	238.63
2005545	LUMINAIRE, HPS, 250W, 120/208/240/277V M	7	224.65
2005546	LUMINAIRE, HPS, 150W, 120/208/240/277V,	10	127.04
2005548	LUMINAIRE, HPS, 150W, 120 VOLT, MAGNAPAK	1	105.54
2005551	LUMINAIRE, HPS, 150W, 120/208/240/277V,	352	116.49
2005567	LUMINAIRE, HPS, 400W, 480V, TYPE III, CU	2	212.71
2005568	LUMINAIRE, HPS, 250W, 480V, TYPE III, CU	4	186.22
2005570	LUMINAIRE, COLONIAL, BLK PT, 100W HPS, MT-W	53	613.18
2005571	LUMINAIRE, HPS, 400W, 120/208/240/277V,	36	178.22
2005572	LUMINAIRE, HPS COACH 70W, 120V TYPE III	87	176.18
2005573	LUMINAIRE, HPS CONTEMPORARY 70W, 120V TY	2	152.22
2005574	LUMINAIRE, HPS, 250W, 120/208/240/277V,	837	129.32
2005575	LUMINAIRE, HPS, 250W, 120/208/240/277V,	401	141.64
2005576	LUMINAIRE, HPS, 70W, 120V, TYPE II	117	104.27
2005577	LUMINAIRE, HPS, 100W, 120/208/240/277V,	744	153.53
2005578	LUMINAIRE, NEMA HEAD, HIGH PRESSURE SODI	139	77.92
2005579	LUMINAIRE, NEMA HEAD, HIGH PRESSURE SODI	66	77.3
2005580	LUMINAIRE, HPS, 50W, 120V, TYPE II	101	104.64
2005584	LUMINAIRE, HPS, 250W 480V TYPE III	39	125.09
2005587	LUMINAIRE, CLASSIC, BRONZE, PT, 100W, MULTI-TAP, PREM, 2PCS	1	554.22
2005592	LUMINAIRE, SHOEBOX 400W HPS BRONZE 480V	7	366.45
2005593	LUMINAIRE, SHOEBOX 400W HPS BRONZE 120/2	26	330.44
2005594	LUMINAIRE, SHOEBOX, HPS, 250W, 120/240, BRONZE, PREM. LTG	1	355.1
2005595	LUMINAIRE, SHOEBOX 250W HPS BRONZE 480V	20	335.83
2005596	LUMINAIRE, SHOEBOX, HPS, 100W, 480V, BRONZE, PREM. LTG.	1	296.69
2005597	LUMINAIRE, CONTEMPORARY, HPS, 100W, 120/	1	896.21
2005598	LUMINAIRE, SHOEBOX, HPS, 100W, 120/240V, BRONZE, PREM.	1	326.36
2005600	LUMINAIRE, SHOEBOX 1000W MH BRONZE 480V	11	691.93
2005601	LUMINAIRE, CLASSIC, BLK PT, 100W HPS, MULTI-	115	574.55
2005602	LUMINAIRE, HPS, 400W, 120/208/240/277V,	301	181.62
2005603	LUMINAIRE, PROMENADE, BLK PT, 100W HPS, MULT	6	546.98
2005604	LUMINAIRE, HPS, 100W, 120/208/240/277V,	99	128.93
2005606	LUMINAIRE, HPS, 100W, 120 VOLT, MAGNAPAK	14	89.49
2005607	LUMINAIRE, HPS, 150W, 480V, CUTOFF	1	139.88
2005608	LUMINAIRE, HPS 150W 480V TYPE III	4	183.68
2005609	LUMINAIRE, HPS, 400W, 480V, TYPE III	31	223.09



2005615	LUMINAIRE, SHOEBOS, MH, 400W, 120/208/240/277 VOLT, BLA	1	330.83
2005616	LUMINAIRE, SHOEBOS, BLACK, 350W MH, 120/	11	347.2
2005618	POLE, FIBERGLASS FLUTED 16 FT BLACK SURF	1	841.24
2005620	POLE, ALUMINUM 10 FT BLK FINISH, USED W/	1	86.08
2005623	LUMINAIRE, SHOEBOS 400W MH GRAY 120/208/	2	296.85
2005624	LUMINAIRE, SHOEBOS, GRAY, 350W MH, 120/2	1	355.1
2005625	LUMINAIRE, SHOEBOS 400W MH GRAY 120/208/	11	310.83
2005626	LUMINAIRE, SHOEBOS, GRAY, 350W MH, 120/2	19	348.3
2005627	LUMINAIRE, SHOEBOS 400W MH DARK BRONZE 1	1	311.99
2005628	LUMINAIRE, SHOEBOS, DARK BRONZE, 350W MH	1	365.75
2005632	POLE, ALUMINUM, 16 FT DK BRONZE, SMOOTH	1	376.52
2005636	LUMINAIRE, SHOEBOS, MH, 400W, 120/208/240/277 VOLT	1	366.13
2005637	LUMINAIRE, SHOEBOS 400W MH AUTO REG BALL	1	293.17
2005638	LUMINAIRE, SHOEBOS, DARK BRONZE, 350W MH	6	338.92
2005639	LUMINAIRE, SHOEBOS 400W MH 120/208/240/2	9	285.16
2005640	LUMINAIRE, SHOEBOS, DARK BRONZE, 350W MH	55	348.35
2005641	LUMINAIRE, SHOEBOS, BLACK, 350W MH, 120/	8	334.74
2005642	LUMINAIRE, SHOEBOS, MH, 400W, 480V, AUTOREG BALLAST	1	366.11
2005643	LUMINAIRE, SHOEBOS, DARK BRONZE, 350W MH	1	355.1
2005645	LUMINAIRE, METAL HALIDE HORIZ BURN 1000W	2	172.18
2005649	POLE, WINSTON, FIBERGLASS, 16', BLACK, 3" MTG	726	181.12
2005650	POLE, FIBERGLASS 16 FT WHITE POST-TOP LU	3	261.08
2005652	POLE, ALUMINUM, TAPERED, 16', BLACK, 3"	5	628.4
2005653	POLE, ALUMINUM, TAPERED, 16', BLACK, 3"	14	944.99
2005654	POLE, CHARLESTON ALUMINUM TAPERED 16' BL	1291	442.73
2005658	POLE, ALUMINUM, 16FT., BLACK SMOOTH SURF	1	327.96
2005659	LUMINAIRE, COLONIAL, WHT PT, 100W HPS, MULTI	2	556.76
2005660	LUMINAIRE, SALEM, BLK PT, 100W HPS, MULTI-T	483	468.24
2005661	LUMINAIRE, SALEM, WHT PT, 100W HPS MULTI-TAP	3	473.71
2005662	LUMINAIRE, MONGOOSE, 400W HPS, MULTITAP,	7	501.45
2005664	POLE, ALUMINUM 18 FT DIRECT IMBEDMENT, B	1	350.56
2005665	POLE, FRANKLIN, COMP. FLUTED, 16' BLACK, 3" MTG	205	808.45
2005667	POLE, COMPOSITE, FLUTED, 16FT. BLACK FIN	1	724.55
2005668	LUMINAIRE, HPS, 250W, 120/208/240/277V,	7	175.02
2005669	STARTING AID CIRCUIT, 100W, HPS, ENCAPSU	13	40.84
2005671	POLE, ALUMINUM 27 FT 2 IN SINGLE BRACKET,	14	1381.24
2005672	POLE, ALUMINUM 29'8", W/BOLT ON 2-3/8 OD	1	803.59
2005673	POLE, ALUMINUM 37 FT 2 IN QUAD-MTG, PREM L	3	1938.68
2005674	POLE, ALUMINUM 27 FT 2 IN W/HANDHOLE, TWIN	10	1677.33
2005675	POLE, ALUMINUM 37 FT 2 IN, TWIN BRACKET,	7	1285.73
2005676	POLE, ALUMINUM 28 FT W/HANDHOLE DIRECT B	11	497.07
2005678	POLE, ALUMINUM 32 FT 2 IN W/HANDHOLE DB	11	1091.7
2005680	POLE, STEEL 30', 2-3/8" PTT .188" WALL D	1	1112.48
2005681	POLE, STEEL, 30', 2-3/8" TENON, BLK, EPA	1	1379.44
2005683	POLE, GALVANIZED 26 FT 3/4 IN TRANSF BAS	1	392.27
2005684	POLE, GALVANIZED 28 FT 6 IN ANCHOR BASE	1	251.34
2005685	POLE, ALUMINUM, 16 FT WHITE SMOOTH SURFA	1	305.43

2005687	POLE, ALUMINUM TAPERED, 16FT, PAINTED WH	2	499.79
2005688	LUMINAIRE, METAL HALIDE, HORIZ BURN 400W	5	149.39
2005689	LUMINAIRE, COBRA, GRAY, 350W MH, MULTI-T	1	223.17
2005691	COVER, STREET LIGHT TRANSFORMER BASE, ST	26	128.01
2005694	DECAL, "7" LUMINAIRE BLACK ON YELLOW 1-1	864	0.49
2005695	LUMINAIRE, SHOEBOX, HPS, 100W 120/208/24	14	271.27
2005696	GLASSWARE, REPLACEMENT FOR DECORATIVE CO	1	25.71
2005700	GLASSWARE, REPLACEMENT, OPEN BOTTOM FIXT	7	24.05
2005702	GLASSWARE, REPLACEMENT FOR HOLOPHANE COL	10	91.19
2005704	BRACKET, FLOODLIGHT, STEEL, QUAD MTG-IN	2	283.9
2005705	BALLAST TRAY, 100HPS HOLOPHANE MTBALLAST	118	225.71
2005711	BALLAST TRAY, 150WATT MH HOLOPHANE PULSE	14	287.9
2005712	BALLAST TRAY, 175MH HOLOPHANE MTBALLAST	17	173.93
2005724	LUMINAIRE, ENHNCD CLASSIC, BLK PT, RD WY, 175W MH, MULTI-TAP	1	614.98
2005726	LUMINAIRE, PRISMALUME 400W MH MT TAP ENE	2	303.7
2005730	POLE, GALVANIZED STEEL 110 FT 230KV TANG	3	10673.44
2005752	BALLAST, 1000W METAL HALIDE COOPER LIGHT	15	151.7
2005758	POWERDOOR, BALLAST TRAY ASSY HPS 400W 48	18	140.24
2005763	RELAY, STREET LIGHT, 100 AMP, 277/480 VO	4	921.2
2005764	COVER, PHOTO CONTROL FOR CHECKING OPERAT	7	62.58
2005765	RELAY, STREET LIGHT, 60 AMP, 277/480 VOL	4	962.38
2005767	PHOTO CONTROL, 120V, BUTTON TYPE, W/MOV	193	12.62
2005768	PHOTO CONTROL, 1000W, 277 VOLT OPERATION	8450	4.97
2005769	PHOTO CONTROL, 1000W GRAY COVER 120V	11183	4.24
2005770	PHOTO CONTROL, 1000W BLUE COVER 120/240V	9	21.98
2005771	PHOTOCONTROL, ELECTRONIC 105-135VAC P/N	2	13.26
2005772	PHOTO, CONTRL (DUMMY) RED COVER SILENT S	673	3.12
2005773	RELAY, SECONDARY, 60A, 250V, 2 POLE, 120	15	749.76
2005776	RELAY, SECONDARY 100A 250V 2 POLE 120V C	7	1044.18
2005778	PHOTO CONTROL, 1200W, 240V, BUTTON TYPE	14	12.35
2005780	PEDESTAL, CONCRETE, 6" X 6" X 8', PREMIU	7	152.1
2005782	RELAY, MULTIPLE 30 WATTS 105-135 VOLTS S	6	92.3
2005786	RELAY, REPL. PTS, 100 AMP LIGHTING CONTA	3	939.64
2005787	STARTING AID CIRCUIT BOARD, HPS G.E. 35	2367	16.88
2005791	BOARD, STARTING AID CIRCUIT HPS G.E. 50	30	27.54
2005792	BOARD, STARTING AID CIRCUIT HPS AM ELEC	81	31.86
2005793	STARTING AID CIRCUIT, HPS 50W-150W PREMI	23	77.44
2005794	STARTING AID, FOR 400 WATT HOLOPHANE LUM	8	31.61
2005797	CAPACITOR, 56UF, FOR 400 WATT HOLOPHANE,	17	25.95
2005812	STARTING AID CIRCUIT BOARD, HPS G.E. 250	30	38.71
2005813	STARTING AID CIRCUIT BOARD, HPS AM ELEC	20	35.12
2005814	STARTING AID CIRCUIT BOARD, HPS G.E. 250	579	28.75
2005815	STARTING AID CIRCUIT BOARD, AMERICAN ELE	25	25.02
2005816	SOCKET KIT, MOGUL SOCKET BASE W/LEADS P/	18	35.8
2005817	CAPACITOR, FOR 400W SHOEBOX, 26UF 50/60H	87	34.43
2005827	CAPACITOR, FOR 400W SHOEBOX, 20UF, 50/60	817	13.82
2005830	CAPACITOR, 24UF, FOR GE 400W BALLAST, 58	77	25.99

2005831	CAPACITOR, 28UF 50/60HZ 250W HPS LUMINAI	566	20.54
2005832	CAPACITOR, 48UF 50/60HZ 400W HPS LUMINAI	402	31.67
2005833	CAPACITOR, 36/12UF 250/400W HPS LUMINAIR	441	24.65
2005834	CAPACITOR, FOR HOLOPHANE POST TOP FIX. 1	237	25.16
2005843	CAPACITOR, REPLACEMENT FOR A 150WATT MH	24	17.41
2005844	FLOODLIGHT, METAL HALIDE, 400W, 120/208/	4	250.08
2005845	FLOODLIGHT, GRAY, 350W MH, 120/208/240/2	23	267.83
2005846	ADAPTER, SOCKET PORCELAIN, MEDIUM TO MOG	4	3.35
2005847	TIMER, LIGHTING, ELECTRONIC MULTI-SETTIN	4	378.99
2005849	POLE, STEEL 30', 2-3/8" PTT .250" WALL D	1	711.92
2005851	RELAY, ST.LGT,100A,120VOLT - 480VOLT,PRE	3	1856.79
2005852	SWITCH, STREET LIGHT PRIMARY OIL 14KV 20	1	703.6
2005854	CAP, POLE 6IN FOR 27FT ALUMINUM POLE P/N	7	29.17
2005855	BRACKET, FLOODLIGHT, STEEL, TRI-MTG PREM	2	380.73
2005856	POLE, STEEL 30', 2-3/8" PTT .188" WALL B	1	678.02
2007214	CABLE ASSEMBLY, CONTROL STREET LIGHT OIL	1	158.11
2007216	PLUG, CONDUCTOR ACCESSORY 5 PIN DWG Q550	5	66.65
2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2	6.06
2007252	WATER SEAL, COMPOUND, WATERPROOFING 3-3/4' x 3-3/4"x1/8"	1	11.85
2007288	COMPOUND, DUCT SEALING 1 LB PACKAGE	2	1.68
2007323	CROSSBRACE, FIBERGLASS USE WITH SIGN STA	1	61.14
2007362	COMPOUND, SILICONE GREASE DIELECTRIC 5.3OZ TUBE	1	7.45
2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRINTED SEQ.	3000	0.03
2007621	TAPE, BARRICADE "REPAIR/CONSTRUCTION" 3"	36	39.79
2007662	DOOR, ACCESS (DOGHOUSE)	2	1369.9
2007739	DOOR, ACCESS OVAL 16X21 REFRACTORY W/O F	2	1614.48
2007837	FIXTURE, LIGHT INCANDESCENT 150-300 W PE	1	128.05
2007841	GLOBE, FIXTURE V-51 150-300 W SERIES CLE	4	12.31
2007844	FIXTURE, LIGHT INCANDESCENT 60-150 W PEN	2	188.31
2008477	GLOBE, GLASS HOLOPHANE P/N 579	3	42.68
2008708	DOOR, ACCESS 2' DIA 1996 RETROFIT DWG E-	2	3407.61
2008796	LAMP, 120V 40W MEDIUM A-15 P/N 40A15	8	0.61
2008797	LAMP, 120V 50W MEDIUM A-19 P/N 50A/VS	13	1.06
2008798	LAMP, 12V 75W MEDIUM A-21 P/N 75A21	143	1.83
2008799	LAMP, 130 VOLT 100 WATT MEDIUM A-19 P/N	1404	0.7
2008800	LAMP, FLOODLIGHT 120V 90W MED SKIRT	3	4.75
2008801	LAMP, 120V 202W MEDIUM PS-25 #202PS25	48	2.95
2008802	LAMP, INFRARED HEAT 120V 250W P/N #250R4	18	3.75
2008803	LAMP, FLUORESCENT RAP START 2 PIN 40W	899	1.73
2009241	LAMP, 120V 300W MOGUL PRONG PAR-56 #300	3	13.37
2009414	LAMP, FLUORESCENT SLIMLINE 1 PIN 75W P/N	127	5.27
2009415	LAMP, FLUORESCENT RAP START R.D.C. 215W	11	6.35
2011864	GASKET, ACCESS COVER FIG 9 ITEM 18 P/N 3	7	57.06
2012264	GUARD, LAMP FITS 1-1/2 IN DIA SOCKET FOR	67	10.15
2012324	LAMP, MINI-MAG FLASHLIGHT 2 EA MODEL NO.	2	1.69
2012838	LAMP, XENON PELICAN VERSABRIGHT SWIVEL-H	10	5.82
2014736	LED ASSEMBLY, RED P/N 33686	3	33.48

2014737	LED ASSEMBLY, GREEN P/N 33687	2	33.21
2014738	LED ASSEMBLY, YELLOW P/N 33688	3	32.51
2014795	LENS, BONES REPLACEMENT SMOKE B GUARD DOG	48	31.11
2015273	LAMP, LED PILOT LIGHT WHITE P/N 800T-N32	2	22
2015330	DOOR, 20 INCH X 30 INCH DWG. 82214 & 822	1	1645.38
2015394	DOOR, MILL SIDE INSPECTION (UNDER BOWL)	1	9849.29
2015396	LIGHT, WORK 25FT W/2 13W FLOURESCENT BUL	24	23.85
2015794	FLOODLIGHT, 1000W 120/240V POWERFLOOD P/	1	400.36
2015795	FLOODLIGHT, 1000W 480V POWERFLOOD P/N PF	2	412.37
2015883	DOOR, ACCESS SLAG TANK	1	0
2016314	LAMP, INCAND 130V 60W #60A A-17 FROSTED	62	1.51
2016950	BALLAST, ELECTRONIC (FOR USE WITH 8' T-8	4	25.79
2017011	LAMP, 24.00V .035A TEL SLIDE #2 T-2 #24X	106	0.75
2017012	LAMP, 145.00V 6.000W CAND S-6 #6S6	3	0.77
2017013	LAMP, 145.00V 6.000W DC BAY S-6 #6S6DC	10	1.92
2017015	LAMP, T3.25	11	0.3
2017016	LAMP, 6.30V .150A MIN BAY T-3-3/4 (#755)	138	0.26
2017017	LAMP, 14.40V .120A MIN BAY G-3-1/2 #53	11	0.39
2017018	LAMP, 7.00V .410A MIN BAY G-4-1/2 P/N 55	7	0.75
2017019	LAMP, 120.00V .025A MIN BAY T-2-1/2 P/N	80	0.84
2017020	LAMP, 120.00V .025A TEL SLIDE #5 T-2 #12	55	0.75
2017021	LAMP, 6.30V .250A WEDGE T-3-1/4 P/N 259	2	0.39
2017022	LAMP, 28.00V .170A MIN BAY T-3-3/4 #313	12	1.23
2017023	LAMP, 6.00V .200A SC MID FLG T-1-3/4 #32	31	0.46
2017024	LAMP, 14.00V .080A SC MID FLG T-1-3/4 #3	53	1.61
2017025	LAMP, 28.00V .040A SC MID FLG T-1-3/4 P/	30	0.71
2017026	LAMP, 28.00V .080A MIN BAY T-3-1/4 #757	8	0.54
2017028	LAMP, 28.00V .100A MIN BAY T-3-1/4 #1820	10	0.53
2017029	LAMP, 28.00V .070A MIN BAY T-3-1/4 #1829	29	0.44
2017030	LAMP, 55.00V .050A MIN BAY T-3-1/4 P/N 1	829	0.55
2017032	LAMP, FLUORESCENT GENERAL LINE 2 PIN 8W	2	1.83
2017034	LAMP, FLUORESCENT GENERAL LINE 2 PIN 15W	2	2.3
2017035	LAMP, FLUORESCENT GENERAL LINE 2 PIN 20W	4	1.9
2017036	LAMP, FLUORESCENT U-SHAPED 2 PIN 40W P/N	7	4.51
2017037	LAMP, NEON 1/4W 105-125V NE45	24	13.81
2017038	LAMP, NEON 1/4W 105-125V NE51 (B1A)	17	1.54
2017039	LAMP, MERCURY VAPOR 100W #H38JA100DX	8	8.95
2017041	LAMP, MERCURY VAPOR 400W P/N H33GL-400/	4	10.92
2017042	LAMP, QUARTZ 500W 120V 500T3Q/CL	32	2.85
2017043	LAMP, 120V 10W MEDIUM S-14 #10S14/IF	6	1.22
2017046	LAMP, 120V 25W MEDIUM T-10 #25T10	5	6.1
2017070	LAMP,FLUORESCENT PIN 30W F30T12/CW/RS	3	2.38
2018042	LENS, WELDERS FILTER SHADE AA4H 50MM HAR	140	1.51
2019404	LAMP, NEON NE-58 ANSI F4A BULB T-4-1/2 V	14	6.2
2019405	LENS, CAP FACETED TORPEDO SHAPED AMBER P	25	2.25
2020140	BALLAST, FLUORESCENT FOR 2 F40T10 & F40T	33	14.86
2020245	DOOR, WATERPROOF ENCLOSURE P/N 12-505-0	1	194.74

2020926	LIGHT, INDICATING COMPLETE GE ET-16 W/2K	3	40.01
2021060	BALLAST, FLUORESCENT FOR 2 F72 OR 96T10	1	156.14
2021127	LAMP, 120.00V .025A 2-PIN CART T-2 #120P	55	1.65
2021191	LAMP, BALLAST P/N 52148	4	9.45
2021393	LIGHT, PILOT 110/120VAC P/N 800T-P16	2	133.93
2021478	bulb, rubber automatic pipet 5ml	10	6.83
2021666	LAMPHOLDER, STONCO #150-L	2	6.66
2022010	DOOR, ITEM 4	1	98.21
2022013	DOOR, OBSERVATION 4-1/4 (COMPLETE ASSY)	2	2509.06
2022313	LAMP, 130 VOLT 116 WATT MEDIUM A-21 P/N	12	5.63
2022540	BALLAST, FLUORESCENT LIGHT 220V ADVANCE	3	74.3
2022823	FIXTURE, LIGHTING W/OUT GLOBE & GUARD P/	2	72.74
2023230	BALLAST ASSY, GE WALL PACK C699N600 P/N	1	217.94
2023243	FIXTURE, WALL PK	3	314.45
2023619	LENS, CARTRIDGE TRANSPARENT RED P/N 301	3	1.92
2023621	LENS, CARTRIDGE TRANSPARENT GREEN P/N 30	18	0.78
2023671	REFRACTOR AND DOOR ASSEMBLY, P/N 35-961-	2	123.86
2023678	FIXTURE, FLUORESCENT 240V 2 F40/CW TUBES	2	54.34
2023704	HOOD, PENDANT MOUNT BALLAST HOUSING 3/4	6	21.95
2023760	FLOODLIGHT, QUARTZLITE 300/500W WIDE BEA	2	20.71
2023961	LENS, CAP FACETED TORPEDO SHAPED WHITE P	1	6.2
2024220	LAMP, 6.30V .150A MIN 2-PIN T-3-1/2 #12	1	1.07
2024647	LIGHT, INDICATING LENS 5/8 X 3/4 P/N 554	6	4.99
2025017	FIXTURE, FLUORESCENT 120V 1 F15T12 18 IN	7	13.97
2025059	LAMP, FRONT PANEL P/N 31026339	3	24.01
2025060	LENS, RED P/N 31050198	2	0.69
2025061	LENS, WHITE P/N 31050197	2	1.44
2025111	LIGHT, INDICATING GREEN LED P/N 31057347	19	9.23
2025113	LIGHT, INDICATING AMBER LED P/N 31057348	19	11.05
2025149	LENS, BI-METAL THERMOMETER STYLE AI 3 IN	2	5.92
2025426	LAMP, 120V 40W MEDIUM A-21 RED	2	3.39
2026034	BEACON, ROTATING COLOR AMBER 120VAC 60HZ	1	269.5
2026130	LIGHT, INDICATING GREEN P/N CR104PLG22G	4	116.85
2026166	LIGHT, INDICATING 120VAC AMBER 5W P/N 21	12	3.26
2026167	LIGHT, INDICATING 120VAC GREEN 5W P/N 21	7	4.55
2026168	LIGHT, INDICATING 120VAC RED 5W P/N 2150	8	3.12
2026202	BALLAST, HIGH PRESSURE SODIUM 150W MULTI	33	246.19
2026410	LAMP, FLUORESCENT MEDIUM BASE 120V 30W	22	7.57
2026493	LAMP ASSY, P/N 4011-33	3	118.62
2026506	LED, RED 55V P/N 1MB-B-R-120	4	6.48
2026507	LED, GREEN 55V P/N 1MB-B-G-120	4	6.3
2026508	LED, YELLOW 120V P/N 6S6-Y-120-VAC	11	13.6
2026509	LED, RED 120V CANDELABRA BASE	6	8.66
2026510	LED, GREEN 120V P/N 6S6-G-120-VAC	8	12.79
2026514	LAMP ASSY, P/N 46979-00	2	63.67
2026615	LAMP, UV SOURCE FOR TECO MODEL 43B SO2 A	2	1001.66
2026628	LAMP, HIGH PRESSURE SODIUM, 1000 WATT, H	2	40.86

2027701	LAMP, EXIT LIGHT P/N 0150CL/DC	8	22.43
2027702	BALLAST, FLUORESCENT 120V 2-96 IN LAMPS	1	0
2027704	LAMP, METAL HALIDE 250W E-28 BULB MOGUL	20	15.18
2027705	LAMP, METAL HALIDE 175W E-28 BULB MOGUL	12	15.05
2027739	LIGHT, INDICATING E2C MINALITE P/N 449D1	3	44.5
2027740	LIGHT, INDICATING E2C MINALITE P/N 449D1	4	40.75
2027837	LAMP COVER, WHITE SIGNAL LAMP W/BULB #T0	4	71.89
2027838	LAMP, GLOW SIGNAL LAMP M64822	12	53.16
2027861	ARRESTOR, LIGHTNING 12KVAH	3	195.92
2027885	BALLAST, 443-L-SLH-TC-P	6	10.47
2027888	BALLAST, 487-SLH-TC-P	4	25.86
2027924	BALLAST, SINGLE C779N805	2	314.9
2028010	LAMP, MINALITE SWITCHGEAR INDICATOR LIGH	1	0
2028095	SOCKET, LAMP IT 200 P/N 2B2-BU6 6137130	8	0
2028125	LAMP, CARTRIDGE 28V 40MA DIALCO #507-39	19	8.55
2028136	LAMP, 36V 5 WATT BASE BA15D DOUBLE CONTA	22	8.87
2028142	LAMP, EMERGENCY, 12 VOLT, 12 WATT P/N H1	4	33.9
2028987	LED, AMBER 110V 3E LEDTRONICS P/N BSD-11	2	15.34
2028999	LAMP, INDICATING RED TRANSFORMER TYPE P/	2	129.75
2029000	LAMP, INDICATING GREEN TRANSFORMER TYPE	3	13.28
2029001	LAMP, INDICATING AMBER TRANSFORMER TYPE	1	51.91
2031215	BULB, LIGHT 8.5W 120V 800 LUMENS	25	17.71
2031371	LAMP 255511001	1	1491.49
2031786	LAMP, 130V 60W MEDIUM 60A/CL	28	1.78
2032064	LIGHT, PILOT 120VAC W/RED CAP 800T-P16R	2	0
2032870	GLOBE, FIXTURE V-51 60-150W SERIES BLUE	4	91.43
2032965	DOME, STANDARD FIBERGLASS 16 IN P/N VMPS	1	0
2033246	SOCKET, LAMP WITH LEADS 965452-16	2	0
2033842	LAMP, PANALARM P/N JKL85W	10	0.33
2033989	LAMP, SUPERFLOOD NO. 1 (FOR X-RAY VIEWER	1	5.51
2034166	LAMP, FLUORESCENT U-SHAPED 31W #FBO31/84	8	15.4
2034170	SPOTLAMP, SAFETY 6 VOLT 30 WATT SCREW TE	1	14.15
2034246	LAMP, 18W 120VAC 4 PIN P/N CF180DD/E/83	6	6.6
2034247	LAMP, EXT. SVCE MED. BASE HPS 100W 130VD	6	12.22
2034560	LAMP, METAL HALIDE 1500W P/N MVR1500/U/S	5	77.2
2035473	SOCKET, LAMP FLOURESCENT 120V P/N NVQFC	2	234.81
2036360	LIGHT, CONDENSER WITH IN-LINE TRANSFORME	4	1081.03
2036706	LAMP, 130.00V 6.000W CAND S-6 #6S6	96	0.7
2036707	LAMP, 12.00V 6.000W CAND S-6 #6S6	10	2
2036708	LAMP, 120.00V 6.000W DC BAY S-6 #6S6DC	15	2.85
2037482	LAMP, NEON 22K CLEAR P/N 507-4538-1437-6	25	3.81
2037483	LAMP, NEON 33K #507-438-1437-630	11	3.24
2037484	LAMP, NEON 22K #507-4538-1537-610	40	3.65
2037485	LAMP, FLUORESCENT CIRCLINE 4 PIN 22W P/N	1	4.46
2037486	LAMP, 120V 25W MEDIUM A-19 #25A/R	1	1.15
2037487	LAMP, AUTOMOTIVE 35W 12V #4411	2	8.83
2037488	LAMP, 130V 15W MEDIUM A-15 #15A15	12	1.27

2037489	LAMP, 120V 200W MED SIDE PRONG PAR-46 #2	10	13.96
2037495	LAMP, 6.00V 6.000W CAND S-6 #6S6	94	0
2037496	LAMP, #367	280	0.59
2037497	LAMP, 130.00V 3.000W CAND S-6 #3S6/5	22	1.94
2037498	LAMP, CARTRIDGE 28.00V .04A P/N 507-3917	27	2.29
2037499	LAMP, 14.00V .200A MIN BAY T-3-1/4 #1815	44	0.25
2037500	LAMP, 14.00V .200A MIN SCREW T-3-1/4 #14	15	0.75
2037501	LAMP, 10W 230V CANDELABRA BASE S-6 BULB	15	0.87
2037502	LAMP, 14.00V .080A MIN BAY T-3-1/4 #756	20	5.56
2037504	LAMP, 6.30V .200A MID SCREW T-1-3/4 #378	55	0
2037505	LAMP, 60.00V .050A TEL SLIDE #5 T-2 #60P	46	1.76
2037506	LAMP, 5.00V .500A MIN SCREW G-4-1/2 #425	20	0.4
2037508	LAMP, 6.30V .150A WEDGE T-3-1/4 #159	24	0
2037514	LAMP, FLUORESCENT GENERAL LINE 2 PIN 6W	4	1.86
2037516	LAMP, CARTRIDGE 120.00V .025A P/N 507-58	30	7.8
2037517	LAMP, NEON 33K #507-4538-1531-630	78	0
2037518	LENS, CARTRIDGE TRANSLUCENT RED P/N 301	7	0.86
2037537	LIGHT, FLUORESCENT WORK LIGHT 120V 50FT	1	114.33
2037771	LAMPHOLDER, STANDARD BASE P/N V84	7	22.34
2037772	SOCKET, LAMP RECEPTACLE STANDARD BASE P/	3	17.39
2037788	FIXTURE, OBSTRUCTION LIGHT WITH RED GLAS	1	116.06
2038414	LAMP, 120V 20W INTERMEDIATE T-6-1/2 P/N	9	1.52
2038978	LAMPHOLDER, P/N 250-8745-14-504	14	1.53
2039184	GLOBE, 150 WATT C-H #G53	1	17.73
2039211	GLOBE, 1203 LAMP CONDENSER P/N 1253	3	41.51
2039356	BALLAST, FLUORESCENT 120V UNIVERSAL #930	1	97.42
2039514	LENS, GLASS 0181.0005C	3	0
2039653	INDICATING LIGHT, 110-125VAC OR DC CAT N	6	0
2039737	LIGHT, PILOT (RA5 SOLUMETER) P/N 35971L	2	0
2039778	SOCKET, LAMP P/N 470142	12	0
2039855	LAMP, 1.20V .220A MIN SCREW TL-3 #112	23	0
2039910	FIXTURE, FLUORESCENT LIGHT 115V 60W FOR	20	83.16
2039911	LAMP, MERCANDESCENT 160W #M160R2/FL	10	21.65
2040023	LENS, COVER LUCITE P/N 0181.0038.C	4	17.2
2040350	GUARD, GLOBE FOR VDC25 FIXTURE P/N P50	1	28.22
2040410	FIXTURE, LIGHTING W/O GLOBE & GUARD TYPE	1	70.41
2040411	FIXTURE, LIGHTING WITHOUT GLOBE & GUARD	2	0
2040704	LAMP, NEON MINIBAY BASE T3 1/4	9	0.49
2040794	LIGHTBOX, (INCLUDE LAMP, SOCKET, BAFFLE	1	146.1
2040948	LIGHT UNIT, PILOT TRANSF TYPE 120V W/RED	6	149.01
2040950	LIGHT, INDICATING TRANSFORMER 480V W/RED	6	0
2040951	LIGHT, INDICATING TRANSFORMER 120V W/GRE	2	146.67
2040952	LIGHT, INDICATING TRANSFORMER 120V W/WHI	1	142.3
2040979	LIGHT, INDICATING TRANSFORMER 120V W/AMB	4	146.36
2041001	LAMPHOLDER, PHENOLIC W/6W 125V LAMP BRYA	2	10.95
2041021	LAMPHOLDER, FLUORESCENT STATIONARY END B	6	6.85
2041030	LIGHT, INDICATING GREEN LENS DIALCO #95-	8	0

2041032	LIGHT, INDICATING AMBER LENS DIALCO #103	1	8.77
2041081	FIXTURE, LIGHT COMPLETE 1/2 IN C-H #V-16	2	653.62
2041124	LIGHT, INDICATING PANEL MOUNT 120V AC/DC	1	107.59
2041298	BALLAST, FLUORESCENT 118V GE #89G713 FOR	3	0
2041324	LIGHT, INDICATING TRANSFORMER 120VAC #OT	12	0
2041327	LAMPHOLDER, FLUORESCENT L240 LITHONIA FI	8	3.48
2041474	LIGHT, EMERGENCY GENERAL PURPOSE RED 12	2	40.71
2041483	LAMP, FLANGED BASE NEON MINIATURE MSC 11	40	3.83
2041576	BALLAST, FLUORESCENT FOR 2 36 42 48 SLIM	1	27.14
2041579	BALLAST, FLUORESCENT 120V P/N 480XLHTCP	3	70.69
2041595	BALLAST, FLUORESCENT FOR 1 14 15 20 WATT	2	9.43
2041597	BALLAST, FLUORESCENT 120V GE #6G3560 FOR	3	4.33
2041628	SOCKET, LAMP FOR STONCO #4600E P/N 7261-	10	0
2041636	LIGHT, INDICATING FULL VOLTAGE 120V AC/D	2	59.65
2041639	BALLAST, MERCURY LAMP 100 W H38 240VAC A	3	35.79
2041726	LIGHT, INDICATING 125V AC/DC GE #CR2940U	2	231.09
2041744	LAMP, AUTOMOTIVE 12V P/N 4405	2	15.14
2041805	LAMP, 120V 150W MEDIUM PS-25 #150/RS	179	1.66
2041871	LAMP, AS NEO RED 115 VOLTS DS3 P/N 205-1	18	0
2042014	BALLAST, HIGH PRESSURE SODIUM 100W MULTI	3	658.77
2042104	LAMP, 12.00V .170A TEL SLIDE #5 T-2 #12P	77	0.67
2042107	SOCKET, LAMP FOR VMVC 120/240 FIXTURE C-	11	0
2042140	LAMPHOLDER, SOCKET MED BASE BENJAMIN 236	2	0
2042143	LIGHT, INDICATING AMBER LENS DIALCO #95-	2	5.6
2042147	REMOVER, BROKEN LAMP BASE, STANDARD AND	3	23.99
2042160	LAMP, 24.00V .035A TEL SLIDE T-2 P/N 24E	8	0.91
2042431	PHOTO CONTROL, ELECTRIC 120VAC SUPPLY 30	1	200.15
2042446	HOUSING, BALLAST COMPLETE 100W C-H #VMVS	2	1352.12
2042484	LIGHT, INDICATING COMPLETE WITH RED LENS	3	95.15
2042780	RESET, OSCILLATOR P/N 503B601H11	1	29.49
2042788	LIGHT, INDICATING TPE ET-16 120VAC W/O C	3	43.8
2042884	LAMP, CARTRIDGE 28.00V .04A DIALCO #507-	58	5.71
2043629	LAMPHOLDER, FLOURESCENT SLIMLINE GE P/N	6	0
2043630	LAMPHOLDER, FLOURESCENT SLIMLINE GE P/N	10	0
2043773	GLOBE, GLASS SMALL P/N H2000-GN	4	37.52
2043774	BALLAST, HIGH PRESSURE SODIUM 70W 120 VO	1	273.37
2043775	GUARD, SMALL GLOBE P/N H2000-NG	3	24.17
2043776	REFRACTOR, 8 IN GLASS TYPE V P/N H2000-V	4	174.75
2043777	GUARD, 8 IN REFRACTOR P/N H2000-N08	3	52.37
2043778	GUARD, 12 IN REFRACTOR P/N H2000-N12	6	47.84
2043779	MOUNT, FLEXIBLE PENDANT 3/4 IN W/BALLAST	6	92.39
2043780	MOUNT, PENDANT 3/4 IN WITH BALLAST COVER	2	40.5
2043785	BALLAST, HPS 400W MULTIVOLTAGE LOW PROFI	3	296.43
2043786	MOUNT, WALL 3/4 IN WITH BALLAST COVER P/	2	114.43
2043787	MOUNT, ANGLE STANCHION 1-1/4 IN W/BALLAS	2	73.35
2043788	MOUNTING, CEILING 3/4 IN WITH BALLAST CO	1	61.01
2043789	MOUNT, STRAIGHT STANCHION 1-1/4 IN W/BLS	1	101



2043833	LAMPHOLDER, FLUORESCENT GE P/N ALF-812-0	7	7.09
2043835	LAMPHOLDER, FLUORESCENT GE P/N ALF-812-0	6	5.86
2043871	DOOR, DISCHARGE END ITEM 115	1	2450.08
2043911	LAMP, PANEL P/N 3220017	3	0
2043941	GUARD, LARGE GLOBE P/N H2000-NF	8	29.1
2043942	GLOBE, GLASS LARGE P/N H2000-FN	8	38.01
2044407	LIGHT, INDICATING TRANSFORMER 120V W/WHI	1	133.72
2044464	LAMP, 75W 12V	6	33.1
2044561	LIGHT, INDICATING WITH AMBER LENSE P/N 9	3	0
2044562	LIGHT, INDICATING WITH GREEN LENSE P/N 9	1	0
2044563	LIGHT, INDICATING WITH RED LENS P/N 9001	1	50.58
2044564	LIGHT, INDICATING WITH WHITE LENSE P/N 9	3	0
2044768	LAMP, 5.00V .060A BI-PIN T-1-3/4 #3149	54	0
2046439	LAMP, 120.00V 20.000W DC BAY T-6-1/2 #20	47	2.82
2046804	LAMP, 24.00V 6.000W CAND S-6 #6S6	12	4.71
2046805	LAMP, NEON P/N 56-NE38-000	95	0.69
2047947	LIGHT, INDICATING TRANSFORMER #9001-KP-1	4	65.02
2048101	BALLAST, HIGH PRESSURE SODIUM 70W 240 VO	6	277.39
2048102	BALLAST, HIGH PRESSURE SODIUM 100W 240 V	2	224.22
2048692	LAMP, NEON INDICATOR MIDGET BASE FLANGE	14	1.15
2048772	LIGHT, GROUND DETECTION P/N 139-103-003	2	0
2048880	DOOR, W/COOLING COIL WO/FRAME ASSY A DWG	1	0
2048892	DOOR, W/LINER WO/FRAME 24 X 24 IN REF.1	2	0
2048909	DOOR, 4 IN X 10 IN C/I OBSERVATION REF 2	5	167.53
2048973	REFLECTOR, FINISHED DOME P/N H2000-001	2	17.73
2049027	LAMP, 120.00V 25.000W DC BAY T-8 P/N 25T	2	0.82
2049601	LIGHT, INDICATING 120VAC WHITE 5W P/N 21	1	4.1
2049803	INDICATOR LAMP ASSY, P/N XCS-0B30CL	1	69.89
2050060	LENS, SCANNER P/N A-987-029	15	47.92
2050124	LAMP, 24.00V .073A TEL SLIDE #5 T-2 #24P	14	0.54
2050133	INDICATOR LAMP ASSEMBLY P/N 35F2815 3015	1	3.4
2050984	LAMP, QUARTZ 300W 120V Q300T3/CL	7	3.02
2051942	DOOR, ACCESS 43" X 48" FLG TO FLG WTR CO	1	29028.61
2051991	LAMP, DOUBLE CONTACT BAYONET BASE 120VAC	20	3.57
2052353	LAMP, INCADESCENT, 69 WATT, 120VOLT, FOR	1	1.04
2052498	LAMP, 24VDC SERIES 90 P/N 85	15	8.75
2053006	LAMP, RED LED EXIT SIGN 1.5W 120VDC BAYO	10	34.6
2053127	LAMP, FLUORESCENT VERY HIGH OUTPUT 8FT P	4	6.82
2053128	BALLAST, FLOURESCENT FOR 2 F96T12/CW/VHO	2	206.43
2053130	BEACON, ROTATING AMBER 120VAC P/N 225	2	237.89
2053132	LAMP, ROTATING BEACON P/N K8107194A	2	28.16
2053231	BALLAST, FLOURESCENT RAPID START 40W P/N	1	71.02
2053969	DIVERTER, LIGHTING SURGE	1	245.4
2053972	BEACON, ALARM MULTI-COLOR LED 24VDC CHAM	2	314.56
2054402	BULB, FLASHLIGHT FOR STINGER 75001 P/N 7	8	7.26
2054491	LAMP, FLUORESCENT DELUXE 35K 2 PIN 17W P	4	3.91
2054531	LAMP, LED REPLACEMENT WHITE 24V P/N ECX1	1	33.64

2054642	LAMP, LED RED P/N 800T-N320R	7	42.94
2054643	LAMP, LED GREEN P/N 800T-N320G	8	40.63
2054753	BULB, FLASHLIGHT FOR ULTRA-STINGER P/N 7	2	7.07
2054783	LIGHT, VOLT P/N LVD1	4	32.33
2055072	LAMP, COMPACT FLOURESCENT 20W 1200 LUMEN	2	8.73
2055196	LAMP, METAL HALIDE 175W P/N M175/U/MED/E	57	15.71
2055306	LIGHT, PUSHBUTTON BLACK EXTENDED P/N 102	1	37.17
2055352	LAMP, METAL HALIDE 70W P/N MP70/U/MED	50	24.07
2055356	LIGHT, PILOT 16MM RESISTOR TYPE 125V P/N	2	35.94
2055357	LIGHT, PILOT 16MM RESISTOR TYPE 125V P/N	1	37.43
2055411	BALLAST, FLUORESCENT ELECTRONIC 120 VOLT	3	16.8
2055413	LAMP, FLUORESCENT U-SHAPED 4 PIN P/N PL-	4	6.97
2055415	LAMP, FLUORESCENT DESK LIGHT P/N F32T8/T	43	2.51
2055494	BALLAST, FLOURESCENT ELECTRONIC 120VAC P	4	16.82
2055665	LIGHT, INDICATING 16 MM P/N MRL125DLW-MP	2	50.81
2055705	LAMP, METAL HALIDE 250W MOGUL BASE P/N M	4	13.16
2055710	LAMP, METAL HALIDE 350W MOGUL BASE PULSE	3	27.8
2055711	LAMP, METAL HALIDE 250W MOGUL BASE PULSE	1	36.93
2056068	BALLAST, ELECTRONIC FLUORESCENT P/N ECOT	2	98.62
2056082	LIGHT, HAZARD WARNING	2	18.26
2056433	BALLAST, ELECTRONIC DIMMING P/N HDF240T5	1	136.65
2056477	LIGHT, RED PILOT 22MM LED P/N XB4BVG4	1	68.24
2056478	LIGHT, GREEN PILOT 22MM LED P/N XB4BVG3	1	68.68
2056765	LAMP, GREEN 24 VOLT P/N 800T-N319G	7	27.43
2056817	LENS, CLEAR INNER P/N 216327	19	9.2
2057150	LIGHT, PILOT 120 V YELLOW P/N 9001KP38LY	4	60.11
2057151	LAMP, LED YELLOW P/N 6508805211	4	27.14
2057152	LIGHT, PILOT 120 V GREEN P/N 9001KP38LG	2	84.21
2057153	LAMP, LED GREEN P/N 6508805212	4	27.14
2057154	LIGHT, PILOT 120 V RED P/N 9001KP38LRR31	2	102.57
2057155	LIGHT, PILOT 120 V BLUE P/N 9001KP38LLL3	4	92.36
2057156	LAMP, LED BLUE P/N 6508805213	4	27.14
2057175	FIXTURE, FLUORESCENT VAPOR PRF P/N VT223	1	163.38
2057197	LIGHT, ROTATING BEACON AMBER WITH HORN P	2	259.14
2057224	FIXTURE, LIGHT 100W P/N MGA10M1H43PGEF	1	296.94
2057251	LAMP, LED RED FOR MODULE 9001KM38LR P/N	4	29.04
2057371	LIGHT, ASSY LED GREEN W/LENS 120VDC C-H	1	125.34
2057372	LIGHT, ASSY LED RED W/LENS 120VDC C-H E3	1	147.7
2057433	LIGHT, INDICATING RED TXF P/N 10250T181L	1	171.64
2057474	LAMP, FLOURESCENT T-4 13 WATT FOR TSN 60	2	3.72
2057565	FIXTURE. EXPLOSION PROOF P/N MGH07M1H43W	2	348.87
2057774	PHOTOCONTROL, 480V 1000W P/N 30842	4	17.83
2057907	LAMP, GREEN LED 24V P/N LED24GN	1	22.98
2057908	LAMP, RED LED 24V P/N LED24RD	4	24
2057960	LAMP, PULSE START 400W/U/ED28/PS/740	4	32.6
2058097	KIT, BALLAST P/N M1000/SUPER5KIT	3	137.68
2058101	LAMP, METAL HALIDE 250W PULSE START CLEA	8	39.6

2058118	LAMP, METAL HAL. PULSE START 175W MGL CL	6	34.69
2058282	LAMP, 130.00V .250A MIN BAY T-3-1/4 P/N	37	7.85
2058330	SOCKET, FLUORESCENT STARTER G.E. #78X769	2	0
2058355	LAMP, QUARTZ 1500 W 240V Q1500T3/CL	2	12.25
2058623	LAMP, T3.25	9	0.61
2058724	BALLAST, MERCURY VAPOR 175W 120V P/N LPB	2	681.1
2061247	LAMP, INCANDESCENT 40 WATT 120 VOLT CLEA	7	1.09
2071926	BULB, EMERGENCY EXIT T5 6VDC P/N GE-909	5	2.6
2072064	LAMP, FLOURESCENT COMPACT 20W 120V P/N 2	19	4.59
2072086	BEACON, POSITION MONITORING P/N BM2-Y	1	72.59
2072132	LAMP LED WHITE 120V AC/DC T3-1/4 BASE P/	2	30.85
2074444	LAMP, HIGH PRES. SODIUM 600V 70W TYPE S6	2	13.34
2074628	BALLAST, 4-BULB 120V T8 INSTANT START P/	2	22.4
2074652	FIXTURE, EMERGENCY LIGHTING 2-BULB P/N N	3	45.39
2074656	LAMP, FLOURESCENT 32W U-SHAPED T8 BASE P	5	12.05
2074657	LAMP, CANDESCENT SWITCHBOARD 15W 145V 12	6	1.67
2074658	LAMP, LED REPLACEMENT GREEN P/N BF321-0A	1	6.86
2074918	LAMP, METAL HALIDE 400W P/N M400/U/BT-2	8	11.96
2075053	LAMP, METAL HALIDE 100W MED. BASE P/N MP	54	20.78
2075513	FIXTURE, LIGHT V SERIES P/N 302A4577P001	2	0
2076394	LIGHT INDICATING ASSY LED 120V AC/DC W/R	2	0
2076395	LIGHT INDICATING ASSY LED 120V AC/DC W/G	2	0
2076406	LAMP, LED RED 120V AC/DC T3-1/4 BASE P/N	4	26.68
2076407	LAMP, LED GREEN 120V AC/DC T3-1/4 BASE P	2	25.32
2076547	LAMP, LED 24V-DP T3-1/4 BASE P/N RMB119	1	26.93
2077753	BOLT, MACHINE 5/8" X 8", GALV.	2	0.9
2077754	BOLT, MACHINE GALV ROLLED THREADS 5/8 X 10	2	0.99
2077755	BOLT, MACHINE, SQ HEAD, 5/8" X 12", ONE SQ NUT	1	1.09
2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	1	1.36
2077835	CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2	0.24
2077844	CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR AL #4 STR 6-	2	0.34
2077906	CLAMP, GROUND ROD COPPER 1/2"	8255	1.66
2077930	CONNECTOR, VICE CU #4 STR	1	2.03
2077939	COUPLER, GROUND ROD SECTIONAL, COPPER. THREADLESS 1/2"	12564	4.49
2077980	ROD, GROUND, SECTIONAL, COPPER BONDED, THREADLESS LENGT	7007	11.88
2078006	WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	1	0.17
2078008	WASHER, FLAT, 2-1/4 X 2-1/4 X 3/16 WITH 13/16" HOLE DIA	2	0.28
2078067	LAMP, HIGH PRESSURE SODIUM 50W UNIVERSAL	883	10.76
2078068	LAMP, HIGH PRESSURE SODIUM 250W BASE DOW	1963	10.52
2078069	LAMP, HIGH PRESSURE SODIUM 400W UNIVERSA	1902	12.09
2078070	LAMP, HIGH PRESSURE SODIUM 70W UNIVERSAL	1892	10.69
2078071	LAMP, HIGH PRESSURE SODIUM 150W UNIVERSA	1433	9.81
2078072	LAMP, METAL HALIDE 1000W UNIVERSAL BURNI	1347	21.76
2078106	TAPE 3/4" VINYL PLASTIC TAPE	2	1.32
2109909	FLOODLIGHT, LED 45 SERIES	10	314.16
2109910	PHOTOCELL, 120V 2000W TORK 2101	2	25.13
2110121	FIELD CONTROLLER, CAPACITOR MODEL 2015	2	1300.04

2110202	LAMP, METAL HALIDE 400W PULSE START	8	43.05
2110332	LAMP, FLUORESCENT DESK 2 PIN, 25W, 36"	5	4.23
2110787	LUMINAIRE, HPS 100W CO, MT, MAGNAPAK	1648	141.13
2110789	LIGHT, HANDHELD, LED, 220 LUMENS	13	121.19
2110983	PHOTO CONTROL LED USE ONLY, 1000W, 120V	14316	20.21
2111055	FLOODLIGHT, LED TRUNNION MOUNT 100-277V	3	552.62
2111093	BALLAST, FLUORESCENT ELECTRONIC 2 LAMP	3	19.54
2111108	LED, 103W COOPER NAVION RDWAY, GRAY	132	494.08
2111221	LED, 206W COOPER NAVION RDWAY, GRAY	66	1013.49
2111224	LED, 309W COOPER NAVION A/LGTR, GRAY	59	1210.71
2111227	LED, HOLOPHANE REPL DRIVER,67.4 AND 99.1	4	98.47
2111229	LED, 67W HLP SALEM PT, BLK	700	1223.96
2111250	LED, 99W HLP SALEM PT, BLK	266	1297.62
2111251	LED, 106W GE EVOLVE RDWAY TYPE II, GRAY	1	512.94
2111253	LED, 196W GE EVOLVE RDWAY TYPE II, GRAY	24	755.05
2111255	LED, 202W GE EVOLVE A/LGTR TYPE II, GRAY	28	1080.01
2111257	LED, 202W GE EVOLVE A/LGTR TYPE III, GRA	11	1058.67
2111358	LIGHT, LED EMERGENCY	4	76.49
2111359	LIGHT, LED EXIT WHITE WITH RED LETTERS	3	25.77
2111360	LIGHT, LED EXIT, EMERGENCY COMBINATION	2	58.64
2111812	LED, 103W COOPER RDWAY TYPE II, BLK	3	534.81
2111813	LED, 206W COOPER RDWAY TYPE II, BLK	3	994.96
2111815	LED COOPER, 4 SQ, POW DOOR REP. 206W BK	2	220.49
2112133	LAMP, LED INDICATOR FREEDOM 2100 MCC	19	14.11
2112923	40UF CAPACITOR FOR 100 WATT COBRA	220	16.22
2112986	LIGHT, INDICATING (RED) 24VDC	2	153.62
2113045	LIGHT, RED IND, CAT. NO. 10250T197LRP2A	1	149.6
2113046	LIGHT, GREEN IND, CAT.NO. 10250T197LGP2A	1	149.6
2113090	SIGN, STREET LIGHT SYMBOL, 48"X48"	1	225.76
2113187	LIGHT, HANDHELD,DUAL LIGHT W/ MAGNET	631	24.35
2113683	LIGHT, STREET COOPER LED FOR SUBSTATIONS	58	317
2113986	POLE, CONCRETE 45 FT TYPE IIISP	2	660.8
2114251	SWITCHGEAR, SUBMERSIBLE TYPE 9 AUTO	1	91311.9
2114953	LED, 211W/480V GE EVL A/L TYPE III, BLK	38	1002.84
2114955	LED, 152W GE EVOLVE A/LGTR TYPE III, BRN	6	825.87
2115050	LED, 56W COOPER NAVION RDWAY, GRAY	405	314.89
2115051	LED, 56W COOPER NAVION RDWAY, BLK	51	313.58
2115066	LED, 245W HLP MONGOOSE RDWAY, GRAY	18	881.94
2115067	LED, 60W HLP CLASSIC PT, BLK	193	1069.48
2115068	LED, 328W HLP MONGOOSE RDWAY, GRAY	11	940.39
2115070	LED, 100W HLP CLASSIC PT, BLK	60	1079.59
2115121	DOOR LOCK COMPLETE	3	1450.57
2115217	LED, 240W ACP FLOOD, GRAY	3	729.42
2115219	LED, 236W HLP PREDATOR FLOOD, GRAY	63	949.68
2115230	LED, 354W HLP PREDATOR FLOOD, GRAY	624	1159.59
2115237	LED, 107W COOPER NAVION RDWAY, GRAY	436	426.56
2115238	LED, 107W COOPER NAVION RDWAY, BLK	41	645.64

2115239	LED, 213W COOPER NAVION RDWAY, GRAY	460	716.1
2115240	LED, 315W COOPER NAV RDWY TYP IV WD, GRA	1255	944.61
2115246	LED, 157W COOPER NAVION RDWAY, GRAY	143	480.72
2115247	LED, 157W COOPER NAVION RDWAY, BLK	7	484.82
2115250	LED, 211W GE EVOLVE A/LGTR FWT IV, BRNZ	19	930.94
2115251	LED, 211W GE EVOLVE A/LGTR FWT IV, BLK	98	890.15
2115399	BULB, 130V BAC-50 H2 DRYER CNTRL PNL	3	61.04
2115484	LAMP, LED WHITE (SUBS. POWER)	14	7.88
2115552	LAMP ASSY, RED, LED 120VAC	2	204.51
2115868	LED, 213W COOPER NAVION RDWAY, BLK	16	714.51
2115974	LED, 152W GE EVOLVE A/LGTR TYPE III, BLK	42	709.95
2116035	LANTERN, GREEN, SOLAR MKR 1 THRU 15 ODD	2	1193.29
2116036	LANTERN, RED, SOLAR MKR 2 THRU 18 EVEN	2	1181.88
2116379	BRACKET, LED FLOOD, QUAD, GALV, 90 DEG.	4	476.98
2121785	HOUSE SIDE SHIELD	10	15.06
2123490	POLE, DUCTILE IRON 40 CLASS1, WT 1351	2	1722.68
2124852	LIGHT, PILOT GREEN LED 120VAC	2	72.32
2125084	SLEEVE, CLEAR PROTECT-O F-40 LAMP T12	4	1.77
2125615	SHIELD, HOUSE SIDE SOLID 180 DEGREES	21	48.58
2125692	SIGN, EMERGENCY EXIT ECR-LED	10	46.86
2125853	LED, 100W GRANVILLE PT, TY II 480V 4K BL	54	728.06
2126309	LED, 84W EVOLVE, TYP II, 3K, GR	620	172.55
2126380	LED, 84W EVOLVE, TYP II, 4K, GR	88	172.82
2126381	LED, 330W EVOLVE TYPE IV, 3K, GR	63	876.87
2126382	LED, 330W EVOLVE TYPE IV, 4K, GR	301	876.1
2126383	LED, 330W EVOLVE TYP IV, 480V, 4K, GR	44	914.9
2126384	LED, 143W USSL EATON, TYP IV, 3K GR	12	351.48
2126385	LED, 143W USSL EATON, TYP IV, 4K GR	23	352.48
2126386	LED, 182W VERDEON, TYP IV, 3K, GR	493	335.89
2126387	LED, 182W VERDEON, TYP IV, 4K, GR	1161	336.64
2126388	LED, 225W GALLEON, TYP II, 3K, GR	87	664.7
2126389	LED, 225W GALLEON, TYP II, 4K, GR	68	674.49
2126390	LED, 225W GALLEON, TYP II, 4K, BLK	17	665.96
2126391	LED, 225W GALLEON, 480V, TYP II, 4K, BLK	4	675.73
2126392	LED, 247W VERDEON, TYP IV, 3K GR	253	363.88
2126393	LED, 247W VERDEON, TYP IV, 4K GR	352	367.55
2126394	LED, 255W FLOOD 6X6 W, 3K GR	5	728.88
2126395	LED, 255W FLOOD 6X6 W ,4K GR	355	776.2
2126396	LED, 333W GALLEON, TYP II, 3K, GR	17	870.22
2126397	LED, 333W GALLEON, TYP II, 4K, GR	13	878.78
2126398	LED, 26W GRNVIL PT, TYP III, 3K, BLK	163	663.86
2126399	LED, 26W GRNVIL PT, TYP III, 4K, BLK	69	663.49
2126400	LED, 28W, WATCH LIGHT, MULTI VOLT, 3K	2111	101.92
2126401	LED, 27W WATCH LIGHT, TYP V, 4K, GR	611	103.63
2126402	LED, 39W GRNVIL PT, TYP III, 3K, BLK	935	660.16
2126403	LED, 39W GRNVIL PT, TYP III, 4K, BLK	59	656.76
2126406	LED, 39W ENH GRNVIL PT TYP III, 3K, BLK	276	812.67

2126407	LED, 39W ENH GRNVL PT TYP III, 4K, BLK	32	796.32
2126409	LED, 47W AUTOBAHN, TYP R2, 3K, GR	2187	151.29
2126410	LED, 47W AUTOBAHN, TYP R2, 4K, GR	1508	150.05
2126411	LED, 47W AUTOBAHN, TYP R2, 3K, BLK	34	150.06
2126412	LED, 47W AUTOBAHN, TYP R2, 4K, BLK	37	150.21
2126414	LED, 47W AUTOBAHN, 480V, TYP R2, 4K, BLK	7	178.07
2126415	LED, 60W GRNVIL PT, TYP III, 3K, BLK	48	676.4
2126416	LED, 60W GRNVIL PT, TYP III, 4K, BLK	46	667.62
2126417	LED, 60W GRNVIL PT, TY III, 480V 4K, BLK	7	693.83
2126418	LED, 60W ENH GRNVIL PT TYP III, 3K, BLK	5	828.48
2126419	LED, 60W ENH GRNVIL PT TYP III, 4K, BLK	17	791.96
2126420	LED, 55W UTILITY PT, TYP III, 3K, BLK	2541	808.12
2126421	LED, 55W UTILITY PT, TYP III, 4K, BLK	52	800.24
2126422	LED, 76W UTILITY PT, TYP III, 3K, BLK	633	847.13
2126423	LED, 76W UTILITY PT, TYP III, 4K, BLK	70	831.17
2126424	LED, 105W AUTOBAHN, TYP II, 3K, GR	2522	241.22
2126425	LED, 105W AUTOBAHN, TYP II, 4K, GR	613	244.17
2126426	LED, 105W AUTOBAHN, TYP II, 3K, BLK	27	243.23
2126427	LED, 105W AUTOBAHN, TYP II, 4K, BLK	46	243.87
2126428	LED, 105W AUTOBAHN, 480V TYP II, 4K, BLK	23	279.88
2126429	LED, 133W AUTOBAHN, TYP III, 3K, GR	283	269.34
2126430	LED, 133W AUTOBAHN, TYP III, 4K, GR	158	274.65
2126431	LED, 145W AUTOBAHN, TYP II, 3K, GR	1960	239.29
2126432	LED, 145W AUTOBAHN, TYP II, 4K, GR	861	244.73
2126433	LED, 145W AUTOBAHN, TYP II, 3K, BLK	93	235.94
2126434	LED, 145W AUTOBAHN, TYP II, 4K, BLK	481	234.55
2126435	LED, 145W AUTOBAHN, 480V, TY II, 4K, BLK	174	270.49
2126436	LED, 199W ACP FLOOD 6X6 W, TENON, 3K, GR	373	563.04
2126437	LED, 199W ACP FLOOD 6X6 W, TENON, 4K, GR	352	573.78
2126965	LAMP, FLUORESCENT U-SHAPED 2 PIN 32 WATT	7	10.38
2127280	POLE, WINSTON, ALUM, 16FT, DB, HH, BLK	1745	279.46
2127281	POLE, WATERSIDE, AL, 38.6FT, DB, HH, BLK	47	1339.59
2127282	BRACKET, 12FT MAST ARM, BLK	1	260.63
2127283	BRACKET, 10FT MAST ARM, BLK	1	246.54
2127284	BRACKET, 8FT MAST ARM, BLK	1	218.37
2127285	BRACKET, 6FT MAST ARM, BLK	7	177.91
2127286	BRACKET, 4FT MAST ARM, BLK	45	194.99
2127287	BRACKET, BANNER ARM, SET OF 2, BLK	2	211.1
2127288	LED, 330W EVOLVE, TYP IV, 3K, BLK	11	866.75
2127289	LED, 330W EVOLVE, TYP IV, 4K, BLK	48	872.36
2127290	LED, 330W EVOLVE, TYP IV, 480V, 4K, BLK	11	906.56
2127440	LED, 182W VERDEON, TYP IV, 4K, BLK	100	328.67
2127441	LED, 247W VERDEON, TYP IV, 4K, BLK	418	357.47
2127442	LED, 182w VERDEON, 480v, TYP IV, 4K, GR	195	332.14
2127443	LED, 182w VERDEON, 480v, TYP IV, 4K, BLK	24	324.53
2127555	LED, 252W FLOOD, 6X6 W, 480V, 4K, GR	8	772.67
2127706	LAMP, WHITE LED 24V	6	18.82

2127811	LED, 145W AUTOBAHN, TYP IV, 4K, BLK	61	273.57
2127812	SHIELD HOUSE SIDE SOLID 180 DEGREE	22	30.72
2127814	SHIELD HOUSE SIDE SOLID 180 DEGREE	5	24.27
2127852	LED, 145W AUTOBAHN, 480V, TY IV, 4K, BLK	65	270.59
2127913	SHIELD HOUSE SIDE FIELD INSTALL	6	32.74
2127914	SHIELD TRESPASS FOR N3 AND N5 OPTICS	6	12.14
2127916	SHIELD HOUSE SIDE	11	42.62
2127917	SHIELD HOUSE SIDE	27	10.97
2127971	LED, 39W ENH GRNVL PT TYP III, 3K, WHT	4	795.86
2128175	LED, 550W, EATON FLOOD, NEMA2, 4K, BLK	6	2220.05
2128413	LIGHT, LARGE UTILITY FLOOD 120V	4	1016.46
2128414	LIGHT, LARGE UTILITY FLOOD 480V	6	1037.1
2128495	LED, 30W LEXINGTON PT, TYP III, 3K, BLK	544	314.23
2128838	FIXTURE, LED LUMIN. VMV9L 4X HAZARDOUS	4	1131.4
2128839	FIXTURE, LED LUMIN. VMV7L 4X HAZARDOUS	9	921.3
2128855	POLE, CONCRETE, SMALL CELL, TYPE IV-45	2	2261.75
2128856	POLE, CONCRETE, SMALL CELL, TYPE IV-40	2	2723.4
2128860	MOUNT, POLE STRAIGHT STANCHION 1-1/2"	5	96.88
2128861	MOUNT, POLE 25 DEGREE STANCHION 1-1/2"	3	90.04
2128862	MOUNT, PENDANT TOP HAT 3/4"	8	39.57
2128960	POLE, CONCRETE, SMALL CELL, CHANNELSIDE	6	5045.27
2129226	LED, 47W, AUTOBAHN MICRO, TYP R2, 4K, GR	1122	147.04
2129227	LED, 47W, AUTOBAHN MICRO, TYP 2, 3K, BLK	36	146.7
2129228	LED, 47W, AUTOBAHN MICRO, TYP 2, 4K, BLK	2	144.57
2129229	LED, 47W, AUTOBAHN MIC, 480V, T2, 4K, BK	2	177.18
2129230	LED, 47W, AUTOBAHN MICRO, TYP R2, 3K, GR	15996	146.18
2129256	SHEILD, REFRACTOR, ACUITY, AUTOBAHN	1	12.15
2129257	SHEILD, TRESSPASS, ACUITY, AUTOBAHN	3	17.55
2129309	LED, 39W GRNVIL PT, TYP III, 3K, BLK INT	1002	666.67
2129312	LED, 39W GRNVIL PT, TYP III, 4K, BLK INT	3	662.03
2129313	LED, 39W ENH GRNVL PT T III, 3K, BLK INT	219	817.77
2129314	LED, 39W ENH GRNVL PT T III, 4K, BLK INT	1	896.06
2129315	LED, 60W GRNVIL PT, T III, 3K, BLK INT	130	686.33
2129316	LED, 60W GRNVIL PT, T III, 4K, BLK INT	8	632.56
2129317	LED, 60W GRNVIL PT, T III, 480V 4K, BLK INT	1	789.07
2129318	LED, 60W ENH GRNVIL PT T III, 3K, BLK INT	2	838.17
2129319	LED, 60W ENH GRNVIL PT T III, 4K, BLK INT	1	888.04
2129321	LED, NLC-CN, MULTI-PT-GR (ACUITY)	9800	109.24
2129323	LED, NLC-CN, MULTI-GR (ACUITY)	200	106.91
2129325	LED, NLC-IP 7PIN, MULTI-GR	48181	109.47
2129326	LED, NLC-IP 7PIN, 480V-GR (CIMCON)	413	140.65
2129327	LED, FIELD SERVICE UNIT 5.0	8	2302.16
2129329	LED, ACCESS POINT 5.0, CELLULAR	74	7779.58
2129330	LED, 55W UTILITY PT, T III, 3K, BLK INT	3519	806.44
2129331	LED, 55W UTILITY PT, T III, 4K, BLK INT	1	883.69
2129357	LED, 76W UTILITY PT, T III, 3K, BLK INT	540	850.54
2129358	LED, 76W UTILITY PT, T III, 4K, BLK INT	1	930.2

2129359	LED, 26W GRNVIL PT, T III, 3K, BLK INT	130	658.48
2129387	LED, 327W EVOLVE T IV, 4K, BLK, INT, SLI	16	877.14
2129438	LED, 105W AUTOBAHN, TYP II, 3K, WH	1	287.32
2129439	LED, 105W AUTOBAHN, TYP II, 4K, WH	1	287.32
2129530	LED, CABLE, AP 4.5 BACK UP BATTERY 27IN	70	138.13
2129532	LED, CABLE, AP 4.5 3-PIN POWER, R/A	70	103.6
2129533	LED, BACKUP BATTERY, AP 4.5/5.0, 8 AH	70	604.33
2129535	LED, LIGHTNING ARRESTER, NF-NF	70	188.78
2129537	LED, TRANSAMERICA ANTENNA 900MHZ	70	89.79
2129767	LED, 84W EVOLVE TYPE II, 3K, BK	1	204.27
2129769	LED, 84W EVOLVE, TYP II, 4K, BK	1	204.27
2129980	LAMP, INCANDESCENT 75A 120V	244	0.95
2130030	LED, 305W EVOLVE TYPE IV, 3K, GR	213	877.07
2130031	LED, 305W Evolve Type IV, 4k, GR	39	947.01
2130032	LED, 305W Evolve Type IV, 480v, 4k GR	7	898.46
2130033	LED, 305W Evolve Type IV, 3k, BLK	83	870.55
2130034	LED, 305W Evolve Type IV, 4k, BLK	2	869.6
2130035	LED, 305W Evolve Type IV, 480v, 4k, BLK	2	898.46
2130385	LED, NLC-IP 7PIN, MULTI-BLK (SELC)	279	108.41
2130386	LED, NLC-IP 7PIN, MULTI-GR (CIMCON)	18000	108.41
2130387	LED, NLC-IP 7PIN, 480V-BLK (ACUITY)	1	336.42
2130400	LED, 182W ARCHEON, TYP IV, 4K, GR	40	320.96
2130401	LED, 182W ARCHEON, TYP IV, 3K, GR	2265	321.92
2130402	LED, 182W ARCHEON, TYP IV, 4K, BLK	1	311.6
2130403	LED, 182W ARCHEON, TYP IV, 3K, BLK	158	321.08
2130404	LED, 182W ARCHEON, 480V, TYP IV, 4K, GR	2	311.6
2130405	LED, 182W ARCHEON, 480V, TYP IV, 3K, GR	86	320.95
2130406	LED, 182W ARCHEON, 480V, TYP IV, 4K, BLK	2	311.6
2130407	LED, 182W ARCHEON, 480V, TYP IV, 3K, BLK	10	320.95
2130544	LED, SHIELD, HOUSE SIDE, ACUITY MICRO	9	34.11
2130573	CONNECTOR, URD, LIGHTING, 4 POSITION	92	27.25
2130574	CONNECTOR, URD, LIGHTING, 6 POSITION	87	48.01
2130621	FIXTURE, LED CHAMP PRO PVM7L/UNV1 NON HZ	12	685.66
2130805	LAMP, LED A19 ROUGH SERVICE, 14W 80CRI	1344	3.56
2131163	LIGHT, STRING, 50' , WITH CONNECTORS	3	261.49
2131164	ARCH, LIGHTING, YBOR CITY	2	7213.45
2131215	SHIELD, LIGHTING, LED, ARCHEON	3	39.12
2131290	POLE, STANDARD, 16 FT, PT, DB, FIBERGLAS	2	197.28
2131452	POLE, AL, 5G SMALL CELL, 3 CHAMBER.1	2	5498
2131460	POLE, AL, 5G SMALL CELL, 3 CHAMBER.2	2	5498
T-SF1	LED, 182W ARCHEON w CAMERA		3271.92
T-SF2	LED, 143W USSL EATON w CAMERA, 3K, GR		3301.48
T-SF3	LED, 225W GALLEON w CAMERA, 3K, GR		3614.7
T-SF4	LED, 157W COOPER NAVION w CAMERA		3430.72
T-SCP6	POLE, WOOD, 40FT CLASS 2, CCA TREATED	4	272.68
T-SCP7	POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	6	323.52
Various10	BRACKET 10 FT Various	13	133.74



Various12	BRACKET 12 FT Various	8	313.41
Various4	BRACKET 4 FT Various	756	26.99
Various6	BRACKET 6 FT Various	164	47.07
Various8	BRACKET 8 FT Various	15	94.14
VariousSB_1	BRACKET SHOEBOX SINGLE MOUNT Various	155	65.31
VariousSB_2	BRACKET SHOEBOX DUAL MOUNT Various	17	132.85
VariousSB_3	BRACKET SHOEBOX TRIPLE MOUNT Various	6	202.3
VariousSB_4	BRACKET SHOEBOX QUAD MOUNT Various	6	360.95
VariousSB_P	BRACKET SHOEBOX TWIN PARALLEL MOUNT Various	11	368.55

2005675 DP	SCP4		
2005675 DP	SCP5		
2130401	SF1		321.92
2126426 <-- not a U	SF2	2126384 o	351.48
2126388	SF3		664.7
2126426 <-- not a N	SF4	2115246?	480.72
2002857	SCP6		
2002858	SCP7		

0.6 weighted avg Decal  
109.35 weighted avg NLC

Source: 2015-2020\_PCAD Summary\_By Fixture\_By Memo\_By Type\_GPoole\_2021\_0216.xlsx

>= Nov 2017 PCAD data for L17 fixtures

Frequency by Rate (based on Manufacturer Group)

\* includes LED Conv impact

L17 Maintenance Frequency Rates			adjust Conv impact here
PT	WR - Luminaire Failure	1.65%	
non PT	WR - Luminaire Failure	4.08%	60%
All	PHOTOCELL ~ NLC	2.02%	PT + nonPT
All	UG (FR & Memo)	3.12%	PT + nonPT
non PT	OH (FR & Memo)	1.49%	
non PT	CLT Pole Replacement	0.28%	
PT	UG (FR & Memo)	0.71%	
non PT	UG (FR & Memo)	2.40%	
PT	PHOTOCELL ~ NLC	0.29%	
non PT	PHOTOCELL ~ NLC	1.72%	

Cable Failures		%OH	%UG
byFixture	uses all bulb types for calc	17%	83%
byFixture	OH Connector	0.018%	
	OH Cable Failure (FR)	0.098%	
byType	Hand Hole	0.195%	
	UG Connector	0.061%	
	UG Fuse	2.142%	
	UG Fuse Holder	1.001%	
	Tree Trim (FR)	1.867%	
byMemo	UG Cable Failure (FR)	1.080%	
	LT-AFrame (Memo)	0.238%	
	LT-Climb (Memo)	1.631%	
	OH Fuse	0.214%	

BAD CABLE/CABLE FAILURE DATA			
FR Cable Failure			
froh/fr cable failure	17%	FR OH	352
frug/fr cable failure	83%	FR UG	1708
2060 FR CABLE FAIL			
Memo Cable Failure			
memo oh/fr oh	49%	Memo OH	1019
lt 2/4 svc			

memo ug/fr ug 

100%	Memo UG	1708
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 lt ugcable  
2727 lt 2/4 svc + lt ug;  
76% memo cable failu

100% FR UG Cable becomes a MEMO  
49% FR OH Cable becomese a MEMO  
FR Cable that becomes a MEMO

**2017 Ratio of FR to Memo**

FR%	Memo%
71.9%	26.1%
71.9%	26.1%
100.0%	
81.8%	18.2%
64.4%	35.6%
100.0%	
100.0%	

*Simulated based on assumptions*

FR	4124	30%
Memo	<u>9580</u>	70%
	13704	

Ration FR to Memo for L17 is artificially low.  
So those FR tickets counted for HID not L17.

**Decision: Use 2017 Ratio of FR to Memo for Calculations.**  
from 2017 COSS

ugcable

*option: 100% of UGCable will be memoed*

JRE

Source 2021\_0207\_PoleInventory\_COSS.xlsx

GIS Inventory folder

Includes:

PVT\_Fixtures Tab

InSvc, OOS, Proposed. NOT Proposed Removed

Billing Status = ON, OFF

FACT\_STA1 (Multiple Items)

OH\_UG some are adj

POLE\_USE LIGHTING

Pole Use = Lighting

only PoleUse = Lighting. bc - Others are not billing as LPoles, even if they have a Rate ( GIS data issue)

Count of FACT_NUMBER				
Rate Code	OH	UG	Grand Total	
	422		133	
	425	54	54	
	523	160	160	
	525	3313	3313	
	580	153	153	
	581	48	48	
	582	17478	17478	
	583	557	557	
	584	149	149	
	585	79	79	
	586	18413	18413	
	587	1	1	
	588	13644	13644	
	589	142	142	
	590	30	30	
	591	1387	1387	
	592	765	765	81%
	593	4502	4502	16%
	594	1337	1337	3%
	595	400	400	
	596	1823	1823	
	597	2257	2257	67%
	599	48	48	5%
	607	31528	31528	28%
	612	4634	4634	
	614	4110	4110	
	615	2543	2543	
	616	605	605	
	622	348	348	
	623	180	180	
	624	4396	4396	
	626	25120	25120	
	627	22237	22237	
	637	4986	4986	

641		42	42
<b>Grand Tot:</b>	<b>55991</b>	<b>111611</b>	<b>167602</b>



Source Source Source Source Source GIS Inventory folder  
Includes Includes: Includes: Includes: Includes: PVT\_Fixtures Tab  
InSvc, OC InSvc, OOS, InSvc, OC InSvc, OC InSvc, OOS, Proposed. NOT Proposed Removed  
Billing St Billing Statu Billing St: Billing St: Billing Status = ON, OFF

OH\_UG : OH\_UG son OH\_UG s OH\_UG s OH\_UG some are adj

FACT\_ST (All)

		Count of Column Labels					Grand Total	Totals	
		Row Lab OH	OH ?	OH sl	UG	OH		UG	
L17 equiv	TS equ								
951	454	468	442	281	50	773	723	50	
951	484	478	962	437	2	52	1401	52	
	TS	484	3	2		5	5	0	
965	508	509			2	2	0	2	
932	522	520	142		2	38	144	38	
	TS	522	6			6	6	0	
	TS	533				3	0	3	
	TS	540				1	0	1	
	TS	548				7	0	7	
921	534	550	1		5	699	6	699	
941	538	552	34	3	58	299	95	299	
945	540	554	240	50	4	1138	294	1138	
951	541	556	376	199		54	575	54	
953	578	558	549	207	1	92	757	92	
932	536	566	6	23	2	709	31	709	
	TS	568				9	0	9	
967	530	570			3130	3130	0	3130	
968	530e	570e			606	606	0	606	
967	530p	570e			133	133	0	133	
975	532	572			1584	1584	0	1584	
971	533	573			7898	7898	0	7898	
967	548	574			200	200	0	195	
968	548e	574e			15	15	0	15	
967	548co	574col			82	82	569	80	
975	568	575			412	412	0	412	
947	577	576	503	59	7	375	569	375	
	TS	577	2	1		16	3	16	
	TS	578	18	5		79	23	79	
	YBOR	669	4		20	24	24	0	
975	720	700			61	61	0	61	
967/968	721	701			3	3	0	3	
926	722	702			4	4	0	4	
941	723	703	19		60	79	19	60	
932	724	704	16		22	38	16	22	

951	725	705	15			2	17	15	2
912	860	800	5085		368	156	5609	5453	156
912	862	802	9430	2	992	567	10991	10424	567
914	863	803	18312	2	9042	14849	42205	27356	14849
926	864	804	6209		1353	1475	9037	7562	1475
937	865	805	4790		1633	2323	8746	6423	2323
941	866	806	5490		431	1014	6935	5921	1014
956	869	809	144	17	31	10	202	192	10
965	870	810				2153	2153	0	2153
926	840	820	1254		1164	144	2562	2418	144
926	841	821	22		7	3	32	29	3
941	842	822	32			2	34	32	2
956	843	823	1102		566	500	2168	1668	500
971	844	824				3441	3441	0	3441
975	845	825				1105	1105	0	1105
947	846	826	151	8	40	524	723	199	524
947	847	827	2357		503	3043	5903	2860	3043
914	848	828	1365		337	109	1811	1702	109
956	849	829	254		44	162	460	298	162
941	850	830	66			89	155	66	89
951	851	831	182	3	1	42	228	186	42
953	852	832	921	66		416	1403	987	416
956	853	833	44		15		59	59	0
958	854	834	22			1	23	22	1
967	855	835				683	683	0	683
972	856	836				199	199	0	199
TS		841	4				4	4	0
TS		844				4	4	0	4
TS		846				13	13	0	13
TS		847	1			20	21	1	20
TS		848	1			11	12	1	11
TS		860	4				4	4	0
TS		863	13				13	13	0
TS		864	8				8	8	0
TS		865	5				5	5	0
TS		866	1				1	1	0
TS		869	1	1			2	2	0
981		912	4827	2146	1019	700	8692	7992	700
0		914	12636	3711	23552	19766	59665	39899	19766
0		921	14	1	2	1547	1564	17	1547
982		926	3980	829	2276	2138	9223	7085	2138
0		932	285	17	48	999	1349	350	999
0		935	14			89	103	14	89
0		937	3863	669	2696	3956	11184	7228	3956
983		941	4823	678	1050	3703	10254	6551	3703
0		945	431	43	164	2424	3062	638	2424

984	947	743	30	12	826	1611	785	826
985	951	1592	403	1	200	2196	1996	200
986	953	611	137	3	132	883	751	132
987	956	260	15	58	129	462	333	129
0	958	32			7	39	32	7
0	965				2163	2163	0	2163
988	967				5316	5316	0	5316
989	968				1145	1145	0	1145
0	971				16307	16307	0	16307
0	972				434	434	0	434
0	973				6	6	0	6
990	975				3030	3030	0	3030
TS	981	12		3		15	15	0
TS	982	3			5	8	3	5
TS	983	17		29	35	81	46	35
TS	984	2			27	29	2	27
TS	985	6	1			7	7	0
TS	986				1	1	0	1
TS	987				1	1	0	1
TS	990				47	47	0	47
<b>Grand Total</b>		<b>94759</b>	<b>10046</b>	<b>47541</b>	<b>116019</b>	<b>268365</b>	<b>152915</b>	<b>116019</b>

L17 & equiv HID/LED				L17 & equiv HID/LED					
%OH/UG		% DD & TS		% DD & TS		DD		TS e	
DD	TS	DD	TS	DD	TS	OH	UG	OH	
		100%	0%			723	50		0
		100%	0%			1401	52		5
		100%	0%			0	2		0
		97%	3%			144	38		6
		100%	0%			6	699		0
		100%	0%			95	299		0
		100%	0%			294	1138		0
		100%	0%			575	54		0
		89%	11%			757	92		23
		100%	0%			31	709		0
		100%	0%			0	3130		0
		100%	0%			0	606		0
		100%	0%			0	133		0
		100%	0%			0	1584		0
		100%	0%			0	7898		0
		97%	3%			0	195		0
		100%	0%			0	15		0
		100%	0%			0	80		0
		98%	2%			0	412		0
		98%	2%			569	375		3
		100%	0%			0	61		0
		100%	0%			0	3		0
		100%	0%			0	4		0
		100%	0%			19	60		0
		100%	0%			16	22		0

		100%	0%			15	2	0
		100%	0%			5453	156	4
		100%	0%			10424	567	0
		100%	0%			27356	14849	13
		100%	0%			7562	1475	8
		100%	0%			6423	2323	5
		100%	0%			5921	1014	1
		99%	1%			192	10	2
		100%	0%			0	2153	0
		100%	0%			2418	144	0
		89%	11%			29	3	4
		100%	0%			32	2	0
		100%	0%			1668	500	0
		100%	0%			0	3441	0
		100%	0%			0	1105	0
		98%	2%			199	524	0
		100%	0%			2860	3043	1
		99%	1%			1702	109	1
		100%	0%			298	162	0
		100%	0%			66	89	0
		100%	0%			186	42	0
		100%	0%			987	416	0
		100%	0%			59	0	0
		100%	0%			22	1	0
		100%	0%			0	683	0
		100%	0%			0	199	0
94%	6%	100%	0%	100%	0%	7992	700	15
67%	33%	100%	0%	100%	0%	39899	19766	0
1%	99%	100%	0%	100%	0%	17	1547	0
82%	18%	100%	0%	100%	0%	7085	2138	3
24%	76%	100%	0%	100%	0%	350	999	0
14%	86%	100%	0%	100%	0%	14	89	0
69%	31%	100%	0%	100%	0%	7228	3956	0
71%	29%	99%	1%	100%	1%	6551	3703	46
21%	79%	100%	0%	100%	0%	638	2424	0

48%	52%	98%	2%	99%	1%	785	826	2
92%	8%	100%	0%	100%	0%	1996	200	7
78%	22%	100%	0%	97%	3%	751	132	0
76%	24%	100%	0%	100%	0%	333	129	0
87%	13%	100%	0%	100%	0%	32	7	0
0%	100%	100%	0%	100%	0%	0	2163	0
0%	100%	100%	0%	100%	0%	0	5316	0
0%	100%	100%	0%	100%	0%	0	1145	0
0%	100%	100%	0%	100%	0%	0	16307	0
0%	100%	100%	0%	100%	0%	0	434	0
0%	100%	100%	0%	100%	0%	0	6	0
0%	100%	98%	2%	99%	1%	0	3030	0
57%	43%	99.84%	0.16%	99.84%	0.16%	152173	115740	149
overall								
70.00%	30.00%			non-PT		152173	65639	149
non-PT								

Source  
Includes:  
InSvc, OOS,

FACT STATEMENT  
Pole Material

quiv UG	DD+TS Total		DD+TS Total %		L17 equiv	TS equiv	Rate Code	
	OH	UG	OH	UG				
0	723	50	94%	6%	468	951	454	468
0	1406	52	96%	4%	478	951	484	478
0	0	2	0%	100%	484	TS		484
0	150	38	80%	20%	509	965	508	509
0	0	2	0%	100%	520	932	522	520
0	150	38	80%	20%	522	TS		522
0	6	699	1%	99%	533	TS		533
0	95	299	24%	76%	540	TS		540
1	294	1139	21%	79%	548	TS		548
0	575	54	91%	9%	550	921	534	550
79	780	171	82%	18%	552	941	538	552
0	31	709	4%	96%	554	945	540	554
0	0	3130	0%	100%	556	951	541	556
0	0	606	0%	100%	558	953	578	558
0	0	133	0%	100%	566	932	536	566
0	0	1584	0%	100%	568	TS		568
3	0	7901	0%	100%	570	967	530	570
7	0	202	0%	100%	570e	968	530e	570e
0	0	15	0%	100%	570e	967	530p	570p
0	0	80	0%	100%	572	975	532	572
9	0	421	0%	100%	573	971	533	573
16	572	391	59%	41%	574	967	548	574
0	0	61	0%	100%	574e	968	548	574e
0	0	3	0%	100%	574col	967	548	574col
0	0	4	0%	100%	575	975	568	575
0	19	60	24%	76%	576	947	577	576
0	16	22	42%	58%	577	TS		577
					578	TS		578
					669	YBOR		669
					700	975	720	700
					701	967/968	721	701
					702	926	722	702
					703	941	723	703
					704	932	724	704
					705	951	725	705
					800	912	860	800

0	15	2	88%	12%	802	912	862	802
0	5457	156	97%	3%	803	914	863	803
0	10424	567	95%	5%	804	926	864	804
0	27369	14849	65%	35%	805	937	865	805
0	7570	1475	84%	16%	806	941	866	806
0	6428	2323	73%	27%	809	956	869	809
0	5922	1014	85%	15%	810	965	870	810
0	194	10	95%	5%	820	926	840	820
0	0	2153	0%	100%	821	926	841	821
0	2418	144	94%	6%	822	941	842	822
0	33	3	92%	8%	823	956	843	823
0	32	2	94%	6%	824	971	844	824
0	1668	500	77%	23%	825	975	845	825
4	0	3445	0%	100%	826	947	846	826
0	0	1105	0%	100%	827	947	847	827
13	199	537	27%	73%	828	914	848	828
20	2861	3063	48%	52%	829	956	849	829
11	1703	120	93%	7%	830	941	850	830
0	298	162	65%	35%	831	951	851	831
0	66	89	43%	57%	832	953	852	832
0	186	42	82%	18%	833	956	853	833
0	987	416	70%	30%	834	958	854	834
0	59	0	100%	0%	835	967	855	835
0	22	1	96%	4%	836	972	856	836
0	0	683	0%	100%	841	TS		841
0	0	199	0%	100%	844	TS		844
					846	TS		846
					847	TS		847
					848	TS		848
					860	TS		860
					863	TS		863
					864	TS		864
					865	TS		865
					866	TS		866
					869	TS		869
					912		981	912
					914		0	914
0	8007	700	92%	8%	921		0	921
0	39899	19766	67%	33%	926		982	926
0	17	1547	1%	99%	932		0	932
5	7088	2143	77%	23%	935		0	935
0	350	999	26%	74%	937		0	937
0	14	89	14%	86%	941		983	941
0	7228	3956	65%	35%	945		0	945
35	6597	3738	64%	36%	947		984	947
0	638	2424	21%	79%	951		985	951



27	787	853	48%	52%
0	2003	200	91%	9%
1	751	133	85%	15%
1	333	130	72%	28%
0	32	7	82%	18%
0	0	2163	0%	100%
0	0	5316	0%	100%
0	0	1145	0%	100%
0	0	16307	0%	100%
0	0	434	0%	100%
0	0	6	0%	100%
47	0	3077	0%	100%
<hr/>				
279	152322	116019	57%	43%
			overall	

209	152322	65848	70.00%	30.00%
			non-PT	

953  
956  
958  
965  
967  
968  
971  
972  
973  
975

986	953
987	956
0	958
0	965
988	967
989	968
0	971
0	972
0	973
990	975
TS	981
TS	982
TS	983
TS	984
TS	985
TS	986
TS	987
TS	990
Mickey	
Grand Total	

2021\_0207\_LightInventory\_COSS.xlsx

Pole Material\_some are adj  
PVT\_Fixtures Tab

Proposed. NOT Proposed Removed

(All)

al\_some are adj

Count										
OH		UG								
CO	WD	CO	PT-CO	CO-ALL	WD	AL	PT-AL	AL-ALL	ST	PT-FBR/Cor
26	697	48	0	48	0	2	0	2	0	0
57	1344	50	0	50	0	2	0	2	0	0
0	5	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	2	2	0	0
8	136	37	0	37	1	0	0	0	0	0
0	6	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	3
0	0	1	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	7
1	5	697	0	697	0	0	0	0	0	2
20	75	222	0	222	2	5	0	5	70	0
94	200	1122	0	1122	2	5	0	5	9	0
27	548	54	0	54	0	0	0	0	0	0
94	663	90	0	90	2	0	0	0	0	0
3	28	704	0	704	4	1	0	1	0	0
0	0	0	0	0	0	0	0	0	0	9
0	0	1	158	159	0	0	1697	1697	0	1274
0	0	0	31	31	0	0	328	328	0	247
0	0	0	7	7	0	0	72	72	0	54
0	0	2	39	41	0	0	1041	1041	0	502
0	0	21	39	60	0	7	2160	2167	0	5671
0	0	1	8	9	0	0	67	67	0	119
0	0	0	1	1	0	0	5	5	0	9
0	0	1	3	4	0	0	27	27	0	49
0	0	0	9	9	0	0	199	199	0	204
237	332	368	0	368	0	0	0	0	7	0
0	3	16	0	16	0	0	0	0	0	0
0	23	79	0	79	0	0	0	0	0	0
0	0	0	0	0	0	0	19	19	0	42
0	0	0	0	0	0	0	3	3	0	0
0	0	4	0	4	0	0	0	0	0	0
9	10	60	0	60	0	0	0	0	0	0
0	16	22	0	22	0	0	0	0	0	0
3	12	2	0	2	0	0	0	0	0	0
16	5437	154	0	154	1	1	0	1	0	0

46	10378	562	0	562	4	0	0	0	0	1
297	27059	13853	0	13853	2	994	0	994	0	0
397	7165	1430	0	1430	0	43	0	43	1	1
448	5975	2215	0	2215	5	100	0	100	1	2
631	5290	955	0	955	2	57	0	57	0	0
35	157	10	0	10	0	0	0	0	0	0
0	0	15	0	15	0	3	78	81	0	2057
409	2009	124	0	124	0	20	0	20	0	0
0	29	3	0	3	0	0	0	0	0	0
11	21	2	0	2	0	0	0	0	0	0
422	1246	500	0	500	0	0	0	0	0	0
0	0	1	14	15	0	0	1833	1833	0	1593
0	0	0	88	88	0	0	622	622	0	395
71	128	522	0	522	1	1	0	1	0	0
1321	1539	2980	0	2980	6	4	0	4	52	1
547	1155	102	0	102	3	4	0	4	0	0
88	210	162	0	162	0	0	0	0	0	0
15	51	87	0	87	0	0	0	0	0	2
17	169	40	0	40	2	0	0	0	0	0
96	891	415	0	415	1	0	0	0	0	0
8	51	0	0	0	0	0	0	0	0	0
0	22	1	0	1	0	0	0	0	0	0
0	0	0	104	104	0	0	448	448	0	131
0	0	1	0	1	0	1	143	144	0	54
0	4	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	4	4	0	0
0	0	13	0	13	0	0	0	0	0	0
0	1	20	0	20	0	0	0	0	0	0
0	1	11	0	11	0	0	0	0	0	0
0	4	0	0	0	0	0	0	0	0	0
0	13	0	0	0	0	0	0	0	0	0
0	8	0	0	0	0	0	0	0	0	0
0	5	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0	0
0	2	0	0	0	0	0	0	0	0	0
34	7958	690	0	690	9	0	0	0	0	1
429	39470	18227	1	18228	41	1497	0	1497	0	0
6	11	1540	0	1540	4	3	0	3	0	0
546	6539	2034	0	2034	7	97	0	97	0	0
92	258	993	0	993	3	3	0	3	0	0
5	9	53	0	53	0	36	0	36	0	0
699	6529	3497	0	3497	6	452	0	452	1	0
1100	5451	3236	0	3236	19	423	0	423	25	0
173	465	2341	0	2341	5	40	0	40	38	0
286	499	756	0	756	12	48	0	48	10	0
192	1804	199	0	199	1	0	0	0	0	0

114	637	123	0	123	7	1	0	1	1	0
54	279	93	0	93	0	31	1	32	0	4
0	32	7	0	7	0	0	0	0	0	0
0	0	2	4	6	0	2	394	396	0	1761
0	0	5	350	355	0	4	3391	3395	0	1566
0	0	2	95	97	0	0	406	406	0	642
0	0	57	255	312	0	24	7993	8017	0	7978
0	0	3	0	3	0	3	401	404	0	27
0	0	0	1	1	0	0	3	3	0	2
0	0	1	99	100	0	4	2037	2041	0	889
0	15	0	0	0	0	0	0	0	0	0
0	3	5	0	5	0	0	0	0	0	0
2	44	34	0	34	0	1	0	1	0	0
0	2	27	0	27	0	0	0	0	0	0
0	7	0	0	0	0	0	0	0	0	0
0	0	1	0	1	0	0	0	0	0	0
0	0	1	0	1	0	0	0	0	0	0
0	0	0	14	14	0	0	21	21	0	12
<b>9186</b>	<b>143136</b>	<b>61707</b>	<b>1320</b>	<b>63027</b>	<b>152</b>	<b>3919</b>	<b>23395</b>	<b>27314</b>	<b>215</b>	<b>25311</b>

		%					
		OH					
total	UG PT-ALL	CO	WD	CO	PT-CO	CO-ALL	WD
773	2	3%	90%	6%	0%	6%	0%
1453	2	4%	92%	3%	0%	3%	0%
5	0	0%	100%	0%	0%	0%	0%
2	4	0%	0%	0%	0%	0%	0%
182	0	4%	75%	20%	0%	20%	1%
6	0	0%	100%	0%	0%	0%	0%
3	3	0%	0%	0%	0%	0%	0%
1	0	0%	0%	100%	0%	100%	0%
7	7	0%	0%	0%	0%	0%	0%
705	2	0%	1%	99%	0%	99%	0%
394	75	5%	19%	56%	0%	56%	1%
1432	14	7%	14%	78%	0%	78%	0%
629	0	4%	87%	9%	0%	9%	0%
849	0	11%	78%	11%	0%	11%	0%
740	1	0%	4%	95%	0%	95%	1%
9	9	0%	0%	0%	0%	0%	0%
3130	4668	0%	0%	0%	5%	5%	0%
606	903	0%	0%	0%	5%	5%	0%
133	198	0%	0%	0%	5%	5%	0%
1584	2584	0%	0%	0%	2%	3%	0%
7898	9998	0%	0%	0%	0%	1%	0%
195	253	0%	0%	1%	4%	5%	0%
15	19	0%	0%	0%	7%	7%	0%
80	103	0%	0%	1%	4%	5%	0%
412	602	0%	0%	0%	2%	2%	0%
944	7	25%	35%	39%	0%	39%	0%
19	0	0%	16%	84%	0%	84%	0%
102	0	0%	23%	77%	0%	77%	0%
61	80	0%	0%	0%	0%	0%	0%
3	6	0%	0%	0%	0%	0%	0%
4	0	0%	0%	100%	0%	100%	0%
79	0	11%	13%	76%	0%	76%	0%
38	0	0%	42%	58%	0%	58%	0%
17	0	18%	71%	12%	0%	12%	0%
5609	1	0%	97%	3%	0%	3%	0%

10991	1	0%	94%	5%	0%	5%	0%
42205	994	1%	64%	33%	0%	33%	0%
9037	45	4%	79%	16%	0%	16%	0%
8746	103	5%	68%	25%	0%	25%	0%
6935	57	9%	76%	14%	0%	14%	0%
202	0	17%	78%	5%	0%	5%	0%
2153	2216	0%	0%	1%	0%	1%	0%
2562	20	16%	78%	5%	0%	5%	0%
32	0	0%	91%	9%	0%	9%	0%
34	0	32%	62%	6%	0%	6%	0%
2168	0	19%	57%	23%	0%	23%	0%
3441	5259	0%	0%	0%	0%	0%	0%
1105	1639	0%	0%	0%	8%	8%	0%
723	1	10%	18%	72%	0%	72%	0%
5903	57	22%	26%	50%	0%	50%	0%
1811	4	30%	64%	6%	0%	6%	0%
460	0	19%	46%	35%	0%	35%	0%
155	2	10%	33%	56%	0%	56%	0%
228	0	7%	74%	18%	0%	18%	1%
1403	0	7%	64%	30%	0%	30%	0%
59	0	14%	86%	0%	0%	0%	0%
23	0	0%	96%	4%	0%	4%	0%
683	1027	0%	0%	0%	15%	15%	0%
199	341	0%	0%	1%	0%	1%	0%
4	0	0%	100%	0%	0%	0%	0%
4	8	0%	0%	0%	0%	0%	0%
13	0	0%	0%	100%	0%	100%	0%
21	0	0%	5%	95%	0%	95%	0%
12	0	0%	8%	92%	0%	92%	0%
4	0	0%	100%	0%	0%	0%	0%
13	0	0%	100%	0%	0%	0%	0%
8	0	0%	100%	0%	0%	0%	0%
5	0	0%	100%	0%	0%	0%	0%
1	0	0%	100%	0%	0%	0%	0%
2	0	0%	100%	0%	0%	0%	0%
8692	1	0%	92%	8%	0%	8%	0%
59665	1497	1%	66%	31%	0%	31%	0%
1564	3	0%	1%	98%	0%	98%	0%
9223	97	6%	71%	22%	0%	22%	0%
1349	3	7%	19%	74%	0%	74%	0%
103	36	5%	9%	51%	0%	51%	0%
11184	453	6%	58%	31%	0%	31%	0%
10254	448	11%	53%	32%	0%	32%	0%
3062	78	6%	15%	76%	0%	76%	0%
1611	58	18%	31%	47%	0%	47%	1%
2196	0	9%	82%	9%	0%	9%	0%

883	2	13%	72%	14%	0%	14%	1%
462	37	12%	60%	20%	0%	20%	0%
39	0	0%	82%	18%	0%	18%	0%
2163	2551	0%	0%	0%	0%	0%	0%
5316	8352	0%	0%	0%	7%	7%	0%
1145	1454	0%	0%	0%	8%	8%	0%
16307	23988	0%	0%	0%	2%	2%	0%
434	832	0%	0%	1%	0%	1%	0%
6	8	0%	0%	0%	17%	17%	0%
3030	4967	0%	0%	0%	3%	3%	0%
15	0	0%	100%	0%	0%	0%	0%
8	0	0%	38%	63%	0%	63%	0%
81	1	2%	54%	42%	0%	42%	0%
29	0	0%	7%	93%	0%	93%	0%
7	0	0%	100%	0%	0%	0%	0%
1	0	0%	0%	100%	0%	100%	0%
1	0	0%	0%	100%	0%	100%	0%
47	54	0%	0%	0%	30%	30%	0%
<b>268341</b>	<b>76235</b>	<b>3%</b>	<b>53%</b>	<b>23%</b>	<b>0%</b>	<b>23%</b>	<b>0%</b>

56%

29%







0%	0%	0%	0%	0%
7%	0%	7%	0%	1%
0%	0%	0%	0%	0%
0%	18%	18%	0%	81%
0%	64%	64%	0%	29%
0%	35%	35%	0%	56%
0%	49%	49%	0%	49%
1%	92%	93%	0%	6%
0%	50%	50%	0%	33%
0%	67%	67%	0%	29%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
1%	0%	1%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	45%	45%	0%	26%
<b>1%</b>	<b>9%</b>	<b>10%</b>	<b>0%</b>	<b>9%</b>

10%	70%	20%
7%	21%	8%
0%	87%	13%
0%	0%	0%
0%	0%	0%
0%	0%	0%
0%	0%	0%
0%	0%	1%
0%	0%	1%
0%	0%	0%
<b>3%</b>	<b>53%</b>	<b>23%</b>

56%

% L17 HID/LED equiv									
UG								OH&UG	
PT-CO	CO-ALL	WD	AL	PT-AL	AL-ALL	ST	T-FBR/Com	CO	WD

0%	6%	0%	0%	0%	0%	0%	0%	6%	94%
0%	31%	0%	2%	0%	2%	0%	0%	32%	65%
0%	99%	0%	0%	0%	0%	0%	0%	99%	1%
0%	17%	0%	1%	0%	1%	0%	0%	24%	76%
0%	13%	0%	0%	0%	0%	0%	0%	81%	19%
0%	51%	0%	35%	0%	35%	0%	0%	56%	9%
0%	12%	0%	1%	0%	1%	0%	0%	54%	99%
0%	26%	0%	3%	0%	3%	1%	0%	36%	61%
0%	77%	0%	1%	0%	1%	1%	0%	83%	15%
0%	50%	0%	1%	0%	1%	1%	0%	71%	27%
0%	7%	0%	0%	0%	0%	0%	0%	14%	86%

0%	20%	0%	0%	0%	0%	0%	0%	30%	70%
0%	8%	0%	0%	0%	0%	0%	0%	15%	21%
0%	13%	0%	0%	0%	0%	0%	0%	13%	87%
0%	0%	0%	0%	11%	11%	0%	88%	0%	0%
7%	7%	0%	0%	60%	60%	0%	33%	8%	0%
7%	7%	0%	0%	42%	42%	0%	51%	7%	0%
1%	1%	0%	0%	43%	43%	0%	55%	1%	0%
0%	1%	0%	1%	86%	87%	0%	13%	1%	0%
0%	1%	0%	1%	86%	87%	0%	13%	1%	0%
4%	4%	0%	0%	63%	63%	0%	33%	0%	0%
<b>0%</b>		<b>0%</b>	<b>1%</b>	<b>9%</b>		<b>0%</b>	<b>9%</b>	<b>26%</b>	<b>53%</b>

19%

CO or WD	OH	UG	HID/LED Rates		Installed HID/L	
			DD	TS equiv	DD	TS
			468	454	773	
		723	478	484	1453	5
		1401	509	508	2	
		5	520	522	182	6
		0	550	534	705	
		144	552	538	394	
		6	554	540	1432	1
		0	556	541	629	
		0	558	578	849	102
		0	564	549		
		6	566	536	740	
		95	570	530	3869	
		294	571	531	0	
		575	572	532	1584	
		757	573	533	7898	3
		31	574	548	290	7
		0	575	568	412	9
	3869	0	576	577	944	19
		0	700	720	61	
		0	701	721	3	
		0	702	722	4	
		0	703	723	79	
	290	0	704	724	38	
		0	705	725	17	
		0	800	860	5609	4
		0	802	862	10991	
		569	803	863	42205	13
		3	804	864	9037	8
		23	805	865	8746	5
			806	866	6935	1
		0	809	869	202	2
		0	810	870	2153	
		0	820	840	2562	
		19	821	841	32	4
		16	822	842	34	
		15	823	843	2168	
		5453	824	844	3441	4

10424	567	<b>825</b>	845	1105	
27356	14849	<b>826</b>	846	723	13
7562	1475	<b>827</b>	847	5903	21
6423	2323	<b>828</b>	848	1811	12
5921	1014	<b>829</b>	849	460	
192	10	<b>830</b>	850	155	
0	2153	<b>831</b>	851	228	
2418	144	<b>832</b>	852	1403	
29	3	<b>833</b>	853	59	
32	2	<b>834</b>	854	23	
1668	500	<b>835</b>	855	683	
0	3441	<b>836</b>	856	199	
0	1105	<b>912</b>	981	8692	15
199	524	<b>914</b>		59665	
2860	3043	<b>921</b>		1564	
1702	109	<b>926</b>	982	9223	8
298	162	<b>932</b>		1349	
66	89	<b>935</b>		103	
186	42	<b>937</b>		11184	
987	416	<b>941</b>	983	10254	81
59	0	<b>945</b>		3062	
22	1	<b>947</b>	984	1611	29
0	683	<b>951</b>	985	2196	7
0	199	<b>953</b>	986	883	1
4	0	<b>956</b>	987	462	1
0	4	<b>958</b>		39	
0	13	<b>965</b>		2163	
1	20	<b>967</b>	988	5316	
1	11	<b>968</b>	989	1145	
4	0	<b>971</b>		16307	
13	0	<b>972</b>		434	
8	0	<b>973</b>		6	
5	0	<b>975</b>	990	3030	47
1	0			<b>267913</b>	<b>428</b>
2	0				268341
100%	7992				
97%	39899				
100%	17				
100%	7085				
100%	350				
65%	14				
153%	7228				
97%	6551				
98%	638				
98%	785				
100%	1996				

100%	751	132	
36%	333	129	
100%	32	7	
0%	0	2163	[Green shaded area]
8%	0	5316	
7%	0	1145	
1%	0	16307	
1%	0	434	
1%	0	6	
0%	0	3030	
	46	2	
	2	0	
	7	0	
	0	0	
			79%



Source 2021\_0207\_LightInventory\_COSS.xlsx

Sum of Rer  
PVT\_Fixtur

Includes:

InSvc, OOS, Proposed. NOT Proposed Removed

ED	
ing HID/LE	L17 equiv
773	951
1458	951
2	965
188	932
705	921
394	941
1433	945
629	951
951	953
0	926
740	932
3869	967
0	na
1584	975
7901	971
297	967
421	975
963	947
61	975
3	967
4	926
79	941
38	932
17	951
5613	912
10991	912
42218	914
9045	926
8751	937
6936	941
204	956
2153	965
2562	926
36	926
34	941
2168	956
3445	971

L17 equiv	Total Remaining HID/LED
912	16604
914	44041
921	705
926	11647
932	966
937	8751
941	7598
945	1433
947	7623
951	3105
953	2354
956	2891
958	23
965	2155
967	4852
968	0
971	11346
972	199
975	3171
na	0
<b>Grand Total</b>	<b>129464</b>

HID/LED	L17 equiv
468	951
478	951
520	932
550	921
552	941
554	945
556	951
558	953
564	926
566	932
570	967/968
570	967/968
572	975
573	971
574	967/968
574	967/968

Sum of Remaining HID/LED Total		
L17 equiv	DD	Total
912	800	5613
	802	10991
914	803	42218
	828	1823
921	550	705
926	564	0
	702	4
	804	9045
	820	2562
	821	36
932	520	188
	566	740
	704	38
937	805	8751
941	552	394

1105	975
736	947
5924	947
1823	914
460	956
155	941
228	951
1403	953
59	956
23	958
683	967
199	972
8707	
59665	
1564	
9231	
1349	
103	
11184	
10335	
3062	
1640	
2203	
884	
463	
39	
2163	
5316	
1145	
16307	
434	
6	
3077	
<b>268341</b>	

575	975
576	947
700	975
701	967/968
701	967/968
702	926
703	941
704	932
705	951
800	912
802	912
803	914
804	926
805	937
806	941
809	956
810	965
820	926
821	926
822	941
823	956
824	971
825	975
826	947
827	947
828	914
829	956
830	941
831	951
832	953
833	956
834	958
835	967
836	972/973

703	79
806	6936
822	34
830	155
945	554
947	1433
	576
	963
	826
	736
	827
	5924
951	468
	773
	478
	1458
	556
	629
	705
	17
	831
	228
953	558
	951
	832
	1403
956	809
	204
	823
	2168
	829
	460
	833
	59
958	834
	23
965	509
	2
	810
	2153
967	570
	3869
	574
	297
	701
	3
	835
	683
971	573
	7901
	824
	3445
972	836
	199
975	572
	1584
	575
	421
	700
	61
	825
	1105
na	571
	0
<b>Grand Total</b>	<b>129464</b>

naining HID/LED Total Source 2021\_0207\_LightInventory\_COSS.xlsx

**Includes:**

InSvc, OOS, Proposed. NOT Proposed Removed

ENH and Classic

L17 Eq		570		574		70
		Ct	%	Ct	%	Ct
967	<b>Classic</b>	3130	81%	200	67%	1
968	<b>Enh</b>	606	16%	15	5%	0
967	<b>Prom</b>	133	3%	0	0%	0
975	<b>Col</b>			82	28%	2
		3869	100%	290	100%	3

Source 2021\_0207\_LightInventory\_COSS.xlsx

Includes:

InSvc, OOS, Proposed. NOT Proposed Removed

Billing Status = ON, OFF

33%
0%
0%
67%
100%

L17 eq, Access info %

Row Labe	BUCKET TRUCK AND KEY REQ	BUCKET TRUCK REQ
912	0%	98%
914	0%	99%
921	0%	100%
926	0%	100%
932	0%	100%
935	0%	100%
937	0%	100%
941	0%	99%
945	0%	100%
947	0%	100%
951	0%	99%
953	0%	99%
956	0%	100%
958	0%	100%
965	0%	49%
967	0%	56%
968	0%	64%
971	0%	59%
972	0%	68%
973	0%	100%
975	0%	49%
<b>Grand Tot</b>	<b>0%</b>	<b>91%</b>

FACT\_ST (All) Count

Count of F Column Labels

Row Labe	BUCKET TRUCK AND KEY REQ	BUCKET TRUCK REQ
912	45	24701
914	76	103153
921		2266
926		20805
932		2308
935		103

937		19848
941	2	17833
945		4487
947		9237
951		5275
953		3221
956		3351
958		62
965		2127
967		5258
968		1132
971		16236
972		430
973		6
975		3086
<b>Grand To</b>	<b>123</b>	<b>244925</b>



CLIMBING AND KEY REQ	CLIMBING REQ	HIGH BUCKET	STEP LADDER	BUCKET TRUCK REQ/GATE
0%	2%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	1%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	0%	0%
0%	0%	0%	51%	0%
0%	0%	0%	44%	0%
0%	0%	0%	36%	0%
0%	0%	0%	41%	0%
0%	0%	0%	32%	0%
0%	0%	0%	0%	0%
0%	0%	0%	51%	0%
<b>0%</b>	<b>0%</b>	<b>0%</b>	<b>8%</b>	<b>0%</b>

CLIMBING AND KEY REQ	CLIMBING REQ	HIGH BUCKET	STEP LADDER	BUCKET TRUCK REQ/GATE
11	433		3	118
	311	1	1	164
			2	1
1	13		3	56
				7







19935	DD-L17-912	1422	DD-L17-912
17933	DD-L17-932	362	DD-L17-932
4495	DD-L17-945	176	DD-L17-945
9263	DD-L17-947	59	DD-L17-947
5308	DD-L17-965	384	DD-L17-965
3238	DD-L17-967	773	DD-L17-967
3354	DD-L17-968	255	DD-L17-968
62	DD-L17-971	2881	DD-L17-971
4318	DD-L17-972	7	DD-L17-972
9463	DD-L17-975	188	DD-L17-975
1766	DD-LED-826	74	DD-LED-826
27653	DD-LED-827	679	DD-LED-827
633	DD-LED-829	103	DD-LED-829
6	DD-LED-833	26	DD-LED-833
6332	DD-LED-836	21	DD-LED-836
<b>268341</b>	DD-MH-554	74	DD-MH-554
	DD-MH-558	1	DD-MH-574
	DD-MH-574	71	DD-MH-701
	DD-MH-701	2	DD-MH-703
	DD-MH-703	5	<b>Grand Total</b>
	<b>Grand Total</b>	<b>13656</b>	

for RoadWay Calc

for RoadWay Calc

**(Multiple Items)**

**Count of LIGHT\_NUMBER**

41834
8907
8600
6850
202
59586
1564
9179
11113
10161
461
2555
32
34
2159
1799
<b>165191</b>

**for Rate Case RW Calc  
% w CustID**

53%
25%
36%
9%
20%
65%
48%
33%
42%
13%
30%
59%
22%
3%
32%
19%
958 20% simulate 809 (Mongoose)

for RoadWay Calc

**(Multiple Items)**

**Count of LIGHT\_NUMBER**

700
384
726
3868
1586
7734
5570
10928
2105

**for Rate Case RW Calc  
% w CustID non-RW**

35%
26%
16%
17%
6%
29%
9%
13%
32%

8673	16%
1335	27%
3055	6%
1609	4%
2160	18%
5313	15%
1112	23%
16259	18%
432	2%
3026	6%
718	10%
5871	12%
458	22%
59	44%
199	11%
1420	5%
290	24%
3	67%
79	6%

93465
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Source 2021\_0202\_L&P TSNs and Cost by Rate Code\_Dclaridge.xlsx

Includes: Fixture\_TSN&Rate Code

L17 DD only & new SF

L17 TSN by Rate code

BULB	L17
RATE OP	(Multiple Items)

Source

Includes:

Poles & ne

Poles TSN I

RATE CD	TSN	DESC
912	2126400	LED, 28W, WATCH LIGHT, MULTI VOLT, 3K
	2126401	LED, 27W WATCH LIGHT, TYP V, 4K, GR
914	2126409	LED, 47W AUTOBAHN, TYP R2, 3K, GR
	2126410	LED, 47W AUTOBAHN, TYP R2, 4K, GR
	2126411	LED, 47W AUTOBAHN, TYP R2, 3K, BLK
	2126412	LED, 47W AUTOBAHN, TYP R2, 4K, BLK
	2126414	LED, 47W AUTOBAHN, 480V, TYP R2, 4K, BLK
	2129226	LED, 47W, AUTOBAHN MICRO, TYP R2, 4K,GR
	2129227	LED, 47W, AUTOBAHN MICRO, TYP 2, 3K, BLK
	2129228	LED, 47W, AUTOBAHN MICRO, TYP 2, 4K, BLK
	2129229	LED, 47W, AUTOBAHN MIC, 480V, T2, 4K, BK
	2129230	LED, 47W, AUTOBAHN MICRO, TYP R2, 3K, GR
921	2126309	LED, 84W EVOLVE, TYP II, 3K, GR
	2126380	LED, 84W EVOLVE, TYP II, 4K, GR
	2129767	LED, 84W EVOLVE TYPE II, 3K, BK
	2129769	LED, 84W EVOLVE, TYP II, 4K, BK
926	2126424	LED, 105W AUTOBAHN, TYP II, 3K, GR
	2126425	LED, 105W AUTOBAHN, TYP II, 4K, GR
	2126426	LED, 105W AUTOBAHN, TYP II, 3K, BLK
	2126427	LED, 105W AUTOBAHN, TYP II, 4K, BLK
	2126428	LED, 105W AUTOBAHN, 480V TYP II, 4K, BLK
	2129438	LED, 105W AUTOBAHN, TYP II, 3K, WH
	2129439	LED, 105W AUTOBAHN, TYP II, 4K, WH
932	2126429	LED, 133W AUTOBAHN, TYP III, 3K, GR
	2126430	LED, 133W AUTOBAHN, TYP III, 4K, GR
935	2126384	LED, 143W USSL EATON, TYP IV, 3K GR
	2126385	LED, 143W USSL EATON, TYP IV, 4K GR
937	2126431	LED, 145W AUTOBAHN, TYP II, 3K, GR
	2126432	LED, 145W AUTOBAHN, TYP II, 4K, GR
	2126433	LED, 145W AUTOBAHN, TYP II, 3K, BLK
	2126434	LED, 145W AUTOBAHN, TYP II, 4K, BLK
	2126435	LED, 145W AUTOBAHN, 480V, TY II, 4K, BLK
	2127811	LED, 145W AUTOBAHN, TYP IV, 4K, BLK
	2127852	LED, 145W AUTOBAHN, 480V, TY IV, 4K, BLK
941	2126386	LED, 182W VERDEON, TYP IV, 3K, GR
	2126387	LED, 182W VERDEON, TYP IV, 4K, GR
	2127440	LED, 182W VERDEON, TYP IV, 4K, BLK
	2127442	LED, 182w VERDEON, 480v, TYP IV, 4K, GR
	2127443	LED, 182w VERDEON, 480v, TYP IV, 4K, BLK
	2130400	LED, 182W ARCHEON, TYP IV, 4K, GR
	2130401	LED, 182W ARCHEON, TYP IV, 3K, GR
	2130402	LED, 182W ARCHEON, TYP IV, 4K, BLK
	2130403	LED, 182W ARCHEON, TYP IV, 3K, BLK

RATE CD
422
523
525
580
582
583
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590
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594
595

	2130404 LED, 182W ARCHEON, 480V,TYP IV, 4K, GR	
	2130405 LED, 182W ARCHEON, 480V,TYP IV, 3K, GR	
	2130406 LED, 182W ARCHEON, 480V,TYP IV, 4K, BLK	596
	2130407 LED, 182W ARCHEON, 480V,TYP IV, 3K, BLK	
945	2126392 LED, 247W VERDEON, TYP IV, 3K GR	
	2126393 LED, 247W VERDEON, TYP IV, 4K GR	
	2127441 LED, 247W VERDEON, TYP IV, 4K, BLK	
947	2126381 LED, 330W EVOLVE TYPE IV, 3K, GR	
	2126382 LED, 330W EVOLVE TYPE IV, 4K, GR	597
	2126383 LED, 330W EVOLVE TYP IV, 480V, 4K, GR	
	2127288 LED, 330W EVOLVE, TYP IV, 3K, BLK	
	2127289 LED, 330W EVOLVE, TYP IV, 4K, BLK	
	2127290 LED, 330W EVOLVE, TYP IV, 480V, 4K, BLK	
	2129387 LED, 327W EVOLVE T IV, 4K, BLK, INT, SLI	
	2130030 LED, 305W EVOLVE TYPE IV, 3K, GR	
	2130031 LED, 305W Evolve Type IV, 4k, GR	599
	2130032 LED, 305W Evolve Type IV, 480v, 4k GR	607
	2130033 LED, 305W Evolve Type IV, 3k, BLK	
	2130034 LED, 305W Evolve Type IV, 4k, BLK	
951	2130035 LED, 305W Evolve Type IV, 480v, 4k, BLK	
	2126436 LED, 199W ACP FLOOD 6X6 W, TENON, 3K, GR	612
	2126437 LED, 199W ACP FLOOD 6X6 W, TENON, 4K, GR	
953	2126394 LED, 255W FLOOD 6X6 W, 3K GR	
	2126395 LED, 255W FLOOD 6X6 W ,4K GR	
	2127555 LED, 252W FLOOD, 6X6 W, 480V, 4K, GR	
956	2126388 LED, 225W GALLEON, TYP II, 3K, GR	614
	2126389 LED, 225W GALLEON, TYP II, 4K, GR	
	2126390 LED, 225W GALLEON, TYP II, 4K, BLK	
	2126391 LED, 225W GALLEON, 480V, TYP II, 4K, BLK	
958	2126396 LED, 333W GALLEON, TYP II, 3K, GR	
	2126397 LED, 333W GALLEON, TYP II, 4K, GR	615
965	2126398 LED, 26W GRNVIL PT, TYP III, 3K, BLK	
	2126399 LED, 26W GRNVIL PT, TYP III, 4K, BLK	
	2128495 LED, 30W LEXINGTON PT, TYP III, 3K, BLK	616
	2129359 LED 26W GRNVIL PT T III 3K BLK INT GEN 3	
967	2126402 LED, 39W GRNVIL PT, TYP III, 3K, BLK	622
	2126403 LED, 39W GRNVIL PT, TYP III, 4K, BLK	
	2129309 LED 37W GRNVIL PT T III 3K BLK INT GEN 3	623
	2129312 LED 37W ENH GRNVL PT T III 3K BL INT GN3	
968	2126406 LED, 39W ENH GRNVL PT TYP III, 3K, BLK	624
	2126407 LED, 39W ENH GRNVL PT TYP III, 4K, BLK	626
	2127971 LED, 39W ENH GRNVL PT TYP III, 3K, WHT	
	2129313 LED 37W ENH GRNVL PT T III 3K BL INT GN3	
	2129314 LED 39W ENH GRNVL PT T III 4K BK INT GN3	627
971	2126420 LED, 55W UTILITY PT, TYP III, 3K, BLK	
	2126421 LED, 55W UTILITY PT, TYP III, 4K, BLK	
	2129330 LED, 55W UTILITY PT, T III, 3K, BLK INT	
	2129331 LED, 55W UTILITY PT, T III, 4K, BLK INT	637
972	2126415 LED, 60W GRNVIL PT, TYP III, 3K, BLK	
	2126416 LED, 60W GRNVIL PT, TYP III, 4K, BLK	
	2126417 LED, 60W GRNVIL PT, TY III,480V 4K, BLK	
	2129315 LED 57W GRNVIL PT T III 3K BLK INT GEN 3	SCP1
	2129316 LED 57W GRNVIL PT T III 4K BLK INT GEN 3	SCP2
	2129317 LED, 60W GRNVIL PT,TIII,480V 4K, BLK INT	SCP3
973	2126418 LED, 60W ENH GRNVIL PT TYP III,3K, BLK	SCP4

<b>975</b>	2126419 LED, 60W ENH GRNVIL PT TYP III,4K, BLK	
	2129318 LED 57W ENH GRNVL PT T III 3K BK INT GN3	
	2129319 LED 57W ENH GRNVL PT T III 4K BK INT GN3	
	2126422 LED, 76W UTILITY PT, TYP III, 3K, BLK	
	2126423 LED, 76W UTILITY PT, TYP III, 4K, BLK	
	2129357 LED, 76W UTILITY PT, T III, 3K, BLK INT	
	2129358 LED, 76W UTILITY PT, T III, 4K, BLK INT	
SF1	T-SF1	LED, 182W ARCHEON w CAMERA
SF2	T-SF2	LED, 143W USSL EATON w CAMERA, 3K, GR
SF3	T- SF3	LED, 225W GALLEON w CAMERA, 3K, GR
SF4	T- SF4	LED, 157W COOPER NAVION w CAMERA

SCP5  
SCP6  
SCP7

2021\_0202\_L&P TSNs and Cost by Rate Code\_Dclaridge.xlsx

Pole\_TSN&Rate Code

w SCP

by Rate code

TSN	DESC
2005620	POLE, ALUMINUM 10 FT BLK FINISH, USED W/
2002865	POLE, CONCRETE, 23FT BROWN, ROUND P/N SE
2005665	POLE,FRANKLIN,COMP.FLUTED,16'BLACK,3"MTG
2005667	POLE, COMPOSITE, FLUTED, 16FT. BLACK FIN
2005632	POLE, ALUMINUM, 16 FT DK BRONZE, SMOOTH
2005658	POLE, ALUMINUM, 16FT., BLACK SMOOTH SURF
2005664	POLE, ALUMINUM 18 FT DIRECT IMBEDMENT, B
2005685	POLE, ALUMINUM, 16 FT WHITE SMOOTH SURFA
2005618	POLE, FIBERGLASS FLUTED 16 FT BLACK SURF
2005649	POLE,WINSTON,FIBERGLASS,16',BLACK,3"MTG
2005650	POLE, FIBERGLASS 16 FT WHITE POST-TOP LU
2002832	POLE, CONCRETE 16 FT OCTAGONAL, BLACK PR
2002833	POLE, CONCRETE 16 FT OCTAGONAL, BROWN, P
2002962	POLE, CONCRETE 16 FT PRESTR, OCTOGONAL,
2002966	POLE, CONCRETE 16FT PRETR RED BRICK OCTA
2002967	POLE, CONCRETE 16FT PRETR GREEN OCTAGONA
2005653	POLE, ALUMINUM, TAPERED, 16', BLACK, 3"
2005654	POLE, CHARLESTON ALUMINUM TAPERED 16' BL
2005687	POLE, ALUMINUM TAPERED, 16FT, PAINTED WH
2002839	POLE, CONCRETE 35 FT TYPE 4
2002841	POLE, CONCRETE 35 FT TYPE I W/2-3/8" OD
2002845	POLE, CONCRETE 35 FT TYPE 1
2002846	POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE
2005680	POLE, STEEL 30', 2-3/8" PTT .188" WALL D
2005681	POLE, STEEL, 30', 2-3/8" TENON, BLK, EPA
2005849	POLE, STEEL 30', 2-3/8" PTT .250" WALL D
2005856	POLE, STEEL 30', 2-3/8" PTT .188" WALL B
2005652	POLE, ALUMINUM, TAPERED, 16', BLACK, 3"
2002844	POLE, CONCRETE 35 FT TYPE I OCTAGONAL, B
2002850	POLE, CONCRETE 35 FT PRESTRSD OCTAGONAL
2002851	POLE, CONCRETE 40 FT TYPE I OCTAGONAL, B
2002864	POLE, CONCRETE 35 FT PRESTRESSED OCTAGON
2002964	POLE, CONCRETE 35 FT PRESTRESSED, OCTAGO
2002952	POLE, CONCRETE, 16FT PRESTRESSED FLUTED,
2002953	POLE, CONCRETE 16FT PRESTRESSED FLUTED G
2127280	POLE, WINSTON, ALUM, 16FT, DB, HH, BLK
2002849	POLE, CONCRETE 40 FT TYPE 3
2002895	POLE, CONCRETE 45 FT PRESTRESSED TYPE II
2002896	POLE, CONCRETE 45 FT TYPE III W/2-3/8" O
2002900	Pole, Conc, 45 FT Type III w/2-3/8" O
2113986	POLE, CONCRETE 45 FT TYPE IIISP
2002818	POLE, CONCRETE 30 FT TYPE II, W/ 2-3/8"
2002831	POLE, CONCRETE 25 FT TYPE I, WITH 2-3/8"

2002838 POLE, CONCRETE 30 FT TYPE 1  
2002840 POLE, CONCRETE 30 FT TYPE I W/2-3/8" OD  
2002849 POLE, CONCRETE 40 FT TYPE 3  
2002895 POLE, CONCRETE 45 FT PRESTRESSED TYPE II  
2002896 POLE, CONCRETE 45 FT TYPE III W/2-3/8" O  
2002900 Pole, Conc, 45 FT Type III w/2-3/8" H  
2002901 POLE, CONCRETE 45 FT SPUN DIRECT BURIAL  
2113986 POLE, CONCRETE 45 FT TYPE IIISP  
2002827 POLE, WOOD, 45 FT, CLASS 2, PENTA TREAT  
2002828 POLE, WOOD, 40 FT CLASS 2, PENTA TREATED  
2002847 POLE, WOOD, 40 FT CLASS 4, CCA TREATED.  
2002857 POLE, WOOD, 40FT CLASS 2, CCA TREATED  
2002858 POLE, WOOD, 45 FT CLASS 2, CCA TREATED.  
2002859 POLE, WOOD, 45 FT CLASS 4, CCA TREATED.  
2002860 POLE, WOOD, 45FT CLASS 3, CCA TREATED  
2002965 POLE, CONCRETE 16FT NATURAL/MOLD FINISH  
2002839 POLE, CONCRETE 35 FT TYPE 4  
2002841 POLE, CONCRETE 35 FT TYPE I W/2-3/8" OD  
2002845 POLE, CONCRETE 35 FT TYPE 1  
2002846 POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE  
2002839 POLE, CONCRETE 35 FT TYPE 4  
2002841 POLE, CONCRETE 35 FT TYPE I W/2-3/8" OD  
2002845 POLE, CONCRETE 35 FT TYPE 1  
2002846 POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE  
2005683 POLE, GALVANIZED 26 FT 3/4 IN TRANSF BAS  
2002839 POLE, CONCRETE 35 FT TYPE 4  
2002841 POLE, CONCRETE 35 FT TYPE I W/2-3/8" OD  
2002845 POLE, CONCRETE 35 FT TYPE 1  
2002846 POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE  
2005684 POLE, GALVANIZED 28 FT 6 IN ANCHOR BASE  
2005672 POLE, ALUMINUM 29'8", W/BOLT ON 2-3/8 OD  
2005676 POLE, ALUMINUM 28 FT W/HANDHOLE DIRECT B  
2005678 POLE, ALUMINUM 32 FT 2 IN W/HANDHOLE DB  
2005671 POLE,ALUMINUM 27 FT 2 IN SINGLE BRACKET,  
2005674 POLE,ALUMINUM 27 FT 2 IN W/HANDHOLE,TWIN  
2005673 POLE,ALUMINUM 37 FT 2 IN QUAD-MTG,PREM L  
2005675 POLE, ALUMINUM 37 FT 2 IN,TWIN BRACKET,  
2127281 POLE, WATERSIDE, AL, 38.6FT, DB, HH, BLK  
2129437 POLE, LIGHTING, AEL WHITE, 30' AG, METRO  
2131290 POLE, STANDARD, 16 FT, PT, DB, FIBERGLAS  
2002830 POLE, WOOD,30 FT CLASS 6 PENTA TREATED,  
2002836 POLE, WOOD 30 FT CLASS 6 CCA TREATED NO  
2002837 POLE, WOOD, 30FT CLASS 4, CCA TREATED  
2002821 POLE, WOOD,35 FT CLASS 6 PENTA TREATED,  
2002823 POLE, WOOD 35 FT CLASS 4 PENTA TREATED  
2002842 POLE, WOOD, 35 FT, CLASS 4, CCA TREATED.  
2002843 POLE, WOOD, 35 FT, CLASS 6, CCA TREATED  
2002839 POLE, CONCRETE 35 FT TYPE 4  
2002841 POLE, CONCRETE 35 FT TYPE I W/2-3/8" OD  
2002845 POLE, CONCRETE 35 FT TYPE 1  
2002846 POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE  
2128855 POLE, CONCRETE, SMALL CELL, TYPE IV-45  
2128856 POLE, CONCRETE, SMALL CELL,TYPE IV-40  
2128960 POLE, CONCRETE,SMALL CELL, CHANNELSIDE  
2131452 POLE, ALUMINUM, SMALL CELL, AL, 32.5



2131460 POLE, ALUMINUM, SMALL CELL, BLACK, 32.5  
T-SCP6 POLE, WOOD, 40FT CLASS 2, CCA TREATED  
T-SCP7 POLE, WOOD, 45 FT CLASS 2, CCA TREATED.

Source 2020\_1111\_PVT\_Lighting Material Issues\_2015-2020Sept\_LdlTorre\_Chunt.xlsx

**Includes:**

All Lighting Material.

SAUP (moving price), Avg Usage (2015-2020).

If 0 estimated based on any past info

Source (All)

Luis & Carla (Issued & "notIssued")

TSN	Description	Avg Annual Usage (dni 0 Yrs)
2000223	DECAL, "7" PREMIUM LIGHTING DIE CUT 7/8	100
2000234	DECAL, "X1" LUMINAIRE BLACK ON RED 1-1/2	196
2000235	DECAL, "10" LUMINAIRE BLACK ON YELLOW 1-	135
2000242	DECAL, "25" LUMINAIRE BLACK ON YELLOW 1-1/2 X	1
2000243	DECAL, "40" LUMINAIRE BLACK ON YELLOW 1-1/2 X	1
2000244	DECAL, "40" LUMINAIRE BLACK ON RED 1-1/2 X	1
2000257	DECAL, "25" LUMINAIRE 250W BLACK ON YELL	101
2000258	DECAL, "40" LUMINAIRE 400W BLACK ON YELLOW 3 X	1
2000261	DECAL, "X7" LUMINAIRE BLACK ON RED 1-1/2 X	1
2000312	DECAL, "35" VINYL 350 PULSE START LUMINA	1
2000943	ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	1
2001046	TERMINAL, DISCONNECT MALE FULLY INSULATE	64
2001337	TX,OH,10 kVA,7.62/13.2Y,120,FR3,TAPS	2
2001338	TX,OH,15 kVA,7.62/13.2Y,120,FR3,TAPS	3
2001340	TX,OH,37.5 kVA,7.62/13.2Y,120,FR3	1
2001349	TX,OH,37kVA,2.4/4.1X7.6/13.2,120/240,FR3	2
2001350	TX,OH,50kVA,2.4/4.1X7.6/13.2,120/240,FR3	2
2001365	TX,OH,10 kVA,7.62/13.2Y,120/240,FR3	2
2001366	TX,OH,15 kVA,7.62/13.2Y,120/240,FR3	2
2001367	TX,OH,25 kVA,7.62/13.2Y,120/240,FR3	2
2001368	TX,OH,37.5 kVA,7.62/13.2Y,120/240,FR3	2
2001369	TX,OH,50 kVA,7.62/13.2Y,120/240,FR3	2
2001370	TX,OH,75 kVA,7.62/13.2Y,120/240,FR3	1
2001371	TX,OH,100 kVA,7.62/13.2Y,120/240,FR3	1
2001379	TX,OH,167kVA,7.62/13.2Y,120/240,FR3,TAPS	2
2001408	TX,OH,75 kVA,7.62/13.2Y,240/480,FR3,TAPS	2
2001425	TX,OH,25kVA,7.62/13.2Y,277/480Y,FR3,TAPS	2
2001518	TX,PM,LP,1P,25 kVA,240/120,FR3,SS	1
2001519	TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS	1
2001542	TX,PM,LP,75 kVA,208Y/120,FR3,Taps,SS	2
2002207	SWITCH, DISCONNECT 15KV 900A SPST	2
2002245	SWITCH, VACUUM, 14.4KV, 95KV BIL, 200 AM	2
2002246	SWITCH, CAPACITOR CONTROL 14.4 KV 200A S	1
2002249	CAPACITOR CNTRL RCVRS (CCR) 13KV 120V EX	1
2002816	POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	7
2002817	POLE CAP, WITH 2-3/8" O.D. TENON HOT DIP	5
2002818	POLE, CONCRETE 30 FT TYPE II, W/ 2-3/8" OD POLE TOP TE	1
2002821	POLE, WOOD,35 FT CLASS 6 PENTA TREATED, NO CUT GAIN.	2
2002823	POLE, WOOD 35 FT CLASS 4 PENTA TREATED	1
2002826	POLE, WOOD 40 FT CLASS 4 PENTA TREATED	1

2002827 POLE, WOOD, 45 FT, CLASS 2, PENTA TREATE	1
2002828 POLE, WOOD, 40 FT CLASS 2, PENTA TREATED	1
2002830 POLE, WOOD,30 FT CLASS 6 PENTA TREATED, NO CUT GAIN	1
2002831 POLE, CONCRETE 25 FT TYPE I, WITH 2-3/8"	5
2002832 POLE, CONCRETE 16 FT OCTAGONAL, BLACK PR	43
2002833 POLE, CONCRETE 16 FT OCTAGONAL, BROWN, PREMIUM LTG	1
2002834 POLE, WOOD, 45 FT CLASS 1, CCA TREATED	2
2002835 POLE, WOOD, 50', CLASS 1, CCA TREATED	2
2002836 POLE, WOOD 30 FT CLASS 6 CCA TREATED NO CUT GAIN	1
2002837 POLE, WOOD, 30FT CLASS 4, CCA TREATED	6
2002838 POLE, CONCRETE 30 FT TYPE 1	6
2002839 POLE, CONCRETE 35 FT TYPE 4	1
2002840 POLE, CONCRETE 30 FT TYPE I W/2-3/8" OD	2
2002841 POLE, CONCRETE 35 FT TYPE I W/2-3/8" OD	112
2002842 POLE, WOOD, 35 FT, CLASS 4, CCA TREATED.	37
2002843 POLE, WOOD, 35 FT, CLASS 6, CCA TREATED NO CUT GAIN	1
2002844 POLE, CONCRETE 35 FT TYPE I OCTAGONAL, B	16
2002845 POLE, CONCRETE 35 FT TYPE 1	636
2002846 POLE, CONCRETE 35 FT TYPE 2 W/HANDHOLE	9
2002847 POLE, WOOD, 40 FT CLASS 4, CCA TREATED.	6
2002849 POLE, CONCRETE 40 FT TYPE 3	6
2002850 POLE, CONCRETE 35 FT PRESTRSD OCTAGONAL	1
2002851 POLE, CONCRETE 40 FT TYPE I OCTAGONAL, B	1
2002857 POLE, WOOD, 40FT CLASS 2, CCA TREATED	4
2002858 POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	6
2002859 POLE, WOOD, 45 FT CLASS 4, CCA TREATED.	1
2002860 POLE, WOOD, 45FT CLASS 3, CCA TREATED	8
2002864 POLE, CONCRETE 35 FT PRESTRESSED OCTAGON	2
2002865 POLE, CONCRETE, 23FT BROWN, ROUND P/N SE	4
2002871 POLE, WOOD 60 FT, CLASS 1, SOUTHERN YELL	2
2002881 POLE, WOOD 65 FT, CLASS 1, SOUTHERN YELL	1
2002895 POLE, CONCRETE 45 FT PRESTRESSED TYPE II	10
2002896 POLE, CONCRETE 45 FT TYPE III W/2-3/8" O	18
2002900 POLE, CONCRETE, 45 FT TYPE III W/2-3/8" OD TENON, ACCES	1
2002901 POLE, CONCRETE 45 FT SPUN DIRECT BURIAL	1
2002952 POLE, CONCRETE, 16FT PRESTRESSED FLUTED,	76
2002953 POLE, CONCRETE 16FT PRESTRESSED FLUTED G	2
2002962 POLE, CONCRETE 16 FT PRESTR, OCTOGONAL,	1
2002964 POLE, CONCRETE 35 FT PRESTRESSED, OCTAGO	73
2002965 POLE, CONCRETE 16FT NATURAL/MOLD FINISH	7
2002966 POLE, CONCRETE 16FT PRETR RED BRICK OCTAGONAL SHAPE	1
2002967 POLE, CONCRETE 16FT PRETR GREEN OCTAGONAL PREM. LIGH	1
2003117 POLE, WOOD, 55' CLASS 1 CCA TREATED	2
2003119 CAPACITOR BANK,600 KVAR,13.2KV,WYE,95KVB	2
2003120 CAPACITOR BANK,1200 KVAR,13.2KV,WYE,95KV	2
2003256 FUSE,CRTRG NON-RNW 10A 600V 1.5 X 13/32	105
2003258 FUSE, CARTRIDGE NON-RENEW 15A 600V 1-1/2	88
2003259 FUSE,CRTRG NON-RNW 20A 600V 1.5 X 13/32	21
2003261 FUSE,CRTRG NON-RNW 30A 600V 1.5 X 13/32	11659
2003498 CLAMP, SERVICE ALUMINUM #4 - #2 STR	2
2003523 COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 DIE2 IN.	1
2003646 ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	6
2003691 BRACKET, DUAL CUTOUT ARRESTER & POTHEAD DWG. Q5443 SHT.	2
2003692 BRACKET, TRIMOUNT, ARSTR & POTHEAD, TEMS 2.02 DWG.5443	2

2003769 BRACKET, ADAPTER FOR LUM BRACKETS, 1/4"	1
2003846 CUTOOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	6
2003848 CUTOOUT, 15KV, 200A FUSE HLDR, 300A UNVRS	2
2003849 CUTOOUT, 15KV, 300A SOLID BLADE, 300A UNV	2
2003877 HOOK, DRIVE PILOT POINT4-3/4" OVERALL LENGTH	1
2003961 SCREW, LAG, 2" X 3/8",MECHANICALLY PLATE	1
2004052 HOLDER, WIRE SERVICE GALV FULL THD WOOD SCREW #22 X 3	1
2004130 CABLE, CONTROL 4C 12AWG 600V CU DB	2
2004165 CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 6 AWG,	3440
2004166 CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	24716
2004167 CABLE, UNDERGROUND COPPER, TRIPLEX, 600V	905
2004182 CONDUCTOR, COPPER BARE #6 SOL HD	1
2004183 CONDUCTOR, COPPER, BARE #4 SOLID HD	1
2004188 CONDUCTOR, COPPER BARE 1/0 7 STR HD SALV	1
2004205 CONDUCTOR, COVERED OVERHEAD, 336.4 KCMIL	1
2004316 CONDUCTOR, BARE, 336 ACSR MERLIN	2
2004328 CONDUCTOR, BARE, 1590 ACSS LAPWING	2
2004331 CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	2
2004332 CONDUCTOR, AAC BARE 1/0 7 STR HD	1
2004334 CONDUCTOR, BARE OVERHEAD, 2/0 AWG, AAAC,	235
2004338 CABLE, OVERHEAD SECONDARY, TRIPLEX, 2/0	126
2004339 CABLE, OVERHEAD SECONDARY, TRIPLEX, 4/0	2
2004340 CABLE, OVERHEAD SECONDARY, QUADRUPLEX, 2	2
2004341 CABLE, OVERHEAD SECONDARY, QUADRUPLEX, 4	2
2004343 CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI	2
2004348 CABLE, ALUMINUM, 15KV, 3/C, 1/0 AWG SOLI	2
2004351 CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	2
2004352 CABLE, YALE, AL, UG, 600V, 1/C, 2/0 AWG,	2
2004354 CABLE, SWEETBRIAR, AL,UG,600V,2/C,4/0 AW	2
2004355 CABLE, BELOIT, AL, UG, 600V, 1/C, 4/0 AW	2
2004356 CABLE, XHHW-2,AL,UG,600V,2/C,500 MCM, 37	79
2004360 CABLE, SERVICE DROP AL #4 DUPLEX SPANIEL	132
2004361 CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG	3399
2004362 CABLE, SERVICE DROP AL #2 TRIPLEX CLAM	2
2004363 CABLE, SERVICE DROP AL #2 QUADRUPLEX MUS	1
2004364 CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	142
2004365 CABLE, SERVICE DROP AL 3-2/0 & 1-1/0 NEU	2
2004366 CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	2
2004376 GLASSWARE, GLASS REPLACEMENT FOR TEC# 55	1
2004381 STRAP, GALV 1 IN 1 HOLE	300
2004389 CONDUIT, GALVANIZED 2 IN 10 FT WITH COUPLING	2
2004393 COUPLING, GALV 2 IN	2
2004394 ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS	2
2004395 ELBOW, GALV 2 INCH 90 DEG THD 15" MIN RADIUS	2
2004405 WEATHERHEAD, GALV 2 IN	1
2004410 CONDUIT, GALVANIZED 3 IN 10 FT WITH COUPLING	1
2004412 COUPLING, GALV 3 IN	1
2004413 ELBOW, GALV 3 IN 45 DEG THD 13 IN RAD	2
2004414 ELBOW, GALV 3 IN 90 DEG THD	2
2004463 CONDUIT, PVC SCH 40 1 IN 10 FT WITH COUP	2
2004465 CONDUIT, PVC, FLEXIBLE, 1 INCH X 100 FT	60
2004488 CONDUIT, PVC 2 IN 20 FT BELL END	978
2004489 CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS	50
2004490 CONDUIT, PVC SCH 80 2 IN 10 FT W/COUPLIN	1
2004492 ADAPTER, CONDUIT PVC FEMALE 2 IN SCH 40 SOC X	1

2004507 COUPLING, PVC 2 IN SCH 40 TEMS	23
2004509 CONDUIT, PVC SCH 40 3 IN 10 FT W/BELL EN	2
2004510 ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH 40 TEMS	2
2004511 ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN	6
2004517 CONDUIT, PVC P & C 3 IN 20 FT	80
2004519 ADAPTER, PVC FEMALE 3 IN	1
2004521 COUPLING, PVC 3 IN SCH 40 TEMS	2
2004523 ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40 TEMS	2
2004524 ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40 TEMS	2
2004530 CONDUIT, PVC SCH 40 4 IN 20 FT WITH COUP	2
2004556 CONDUIT, PVC, 6" X 20', SCHEDULE 40	2
2004634 TERMINATOR, POTHEAD, 1/0 TO 4/0, STEM	2
2004643 TERMINATOR POTHEAD 15KV 1000MCM JCN	2
2004646 TERMINATOR POTHEAD 15KV INDOOR 4/0 JCN	2
2004655 HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT	3261
2004660 BRACKET, "L" 5-5/8"IN LENGTH FOR MTG CUTOUT, ARRESTER &	1
2004661 BRACKET, "L" 11IN PROJECTED LGTH FOR MOUNTING CUTOUT	1
2004663 CABLE, FIBER OPTIC 8-FT LENGTH	2
2004719 HANDHOLE, SPLICING SINGLE PHASE PRIMARY	2
2004727 HANDHOLE, SECONDARY URD 10" X 13" LOAD-B	12
2004729 HANDHOLE, SECONDARY URD 14" X 25" LOAD B	24
2004736 HANDHOLE, LIGHT TRUCK TRAFFIC RATED 24"X	2
2004883 TERMINATOR, LOADBREAK 200 AMP, 1/0 SOL	2
2005023 CONNECTOR,URD,600V,3POSITION,INSUL,3/16'	3619
2005073 SPLICE, GEL CAP 600V USED WITH #10,#6,#4	1152
2005126 SWITCHGEAR, PADMOUNT PMH-9 3PH 14.4KV 60	2
2005258 LUMINAIRE, SHOEBX MH 400W 120/208/240/277V GRY PR	1
2005259 LUMINAIRE, SHOEBX, GRAY, 350W MH, 120/2	4
2005269 LUMINAIRE, SHOEBX 400W HPS GRAY 120/208	25
2005271 LUMINAIRE, SHOEBX HPS 250W 120/208/240/	4
2005273 LUMINAIRE, SHOEBX, 1000W METAL HALIDE, MULTI-VOLT BALL	1
2005274 LUMINAIRE, SHOEBX 1000W METAL HALIDE MULTI-VOLT BALL	1
2005275 LUMINAIRE, SHOEBX 1000W METAL HALIDE MULTI-VOLT BALL	1
2005278 LUMINAIRE, SHOEBX, 1000W MH, MULTI-TAP BALLAST	1
2005279 LUMINAIRE, SHOEBX 175MH GRAY (TAMPA STADIUM ONLY)	1
2005280 LUMINAIRE, SHOEBX, GRAY, 150W MH, 120/2	8
2005281 LUMINAIRE, SHOEBX 175 MH BRONZE MULTI-T	1
2005282 LUMINAIRE, SHOEBX, DARK BRONZE, 150W MH	3
2005284 BRACKET, SHOEBX DUAL MTG 180DEG GRAY FOR TECO 5580	1
2005286 BRACKET, SHOEBX DUAL MTG 180DEG BRZ FOR TECO #5580	1
2005288 BRACKET, SHOEBX SINGLE MTG BRZ FOR TECO #5580270 PR	1
2005289 BRACKET, SHOEBX SINGLE MTG GRAY FOR TEC #5580260 PR	1
2005296 POWERDOOR, BALLAST ASSEMBLY, 400W, 120/2	11
2005297 BALLAST, REPLACEMENT 1000W METAL HALIDE	73
2005300 BALLAST, REPLACEMENT TRAY 1000W MH 480V	12
2005303 LUMINAIRE,SHOEBX 1000W MH GRAY MULTI-TA	1
2005304 LUMINAIRE, SHOEBX 1000W MH BRONZE,MULTI	10
2005305 LUMINAIRE, SHOEBX 1000W MH GREY,MULTI-T	4
2005306 LUMINAIRE, SHOEBX 1000W MH BRONZE,MULTI	18
2005308 BRACKET, SHOEBX SINGLE MTG, BLACK PREMI	116
2005309 LUMINAIRE,SHOEBX,1000WMH,BRONZE,FWT-IV,	6
2005310 LUMINAIRE,SHOEBX,1000W MH,BRONZE,MCIII M	13
2005311 LUMINAIRE,SHOEBX,1000W MH,GRAY,FWT,MULT	15
2005312 LUMINAIRE,SHOEBX,1000W MH,GRAY,MULTI-TA	13
2005313 LUMINAIRE, SHOEBX 400W HPS BLACK 120/24	5

2005320 FOUNDATION, ANCHOR TYPE FOR ST LITE 11-1	15
2005321 FOUNDATION, ANCHOR TYPE FOR ST LITE 15 I	9
2005322 BASE, TRANSFORMER CAST ALUM 17 IN HIGH W	1
2005325 BRACKET, RELAY PHOTO CONTROL POLE MTG	23
2005330 BRACKET, STREET LIGHT GALV 20 IN	830
2005331 BRACKET, SHOEBOX, QUAD MTG, GRAY PREMIUM	17
2005332 BRACKET,SHOEBOX,DUAL MTG 180 DEGREE,GRAY	42
2005333 BRACKET, SHOEBOX LUMINAIRE, TRIPLE PREMI	5
2005335 BRACKET, SHOEBOX, TWIN PARALLEL MTG GRAY	20
2005336 BRACKET, SHOEBOX, QUAD MT., BLACK, PREM.	1
2005337 BRACKET, SHOEBOX, TRIPLE MTG, BLACK, PRE	5
2005338 BRACKET,SHOEBOX,DUAL MTG 180 DGREE,BLACK	24
2005339 BRACKET, SHOEBOX, TWIN PARALLEL MNTG DK	1
2005340 BRACKET, SHOEBOX, SINGLE MTG., BRONZE, P	19
2005341 BRACKET, SHOEBOX, DUAL MTG. 180 DEG., BR	16
2005343 BRACKET, SHOEBOX, QUAD MTG., DK. BRONZE,	2
2005344 BRACKET, FLOODLIGHT, TRIPLE MTG IN-LINE, BRONZE, PREM.	1
2005345 BRACKET, FLOODLIGHT, DUAL MTG., BRONZE,	2
2005346 BRACKET, FLOODLIGHT, QUAD-MTG. IN LINE, BRONZE, PREM LT	1
2005347 BRACKET, SHOEBOX LUMINAIRE, STEEL, TRI-M	1
2005348 BRACKET, SHOEBOX, TWIN PARALLEL, WOOD POLE, GRAY	1
2005350 BRACKET, STREET LIGHT GALV 4 FT	2966
2005351 BRACKET, STREET LIGHT GALV 6 FT	624
2005353 BRACKET, SHOEBOX, DUAL MTG, 90 DEG., GRA	6
2005354 BRACKET, STREET LIGHT GALV 8 FT W/SUPPOR	40
2005355 BRACKET,SHOEBOX 90 deg tripl brnz, STEEL	1
2005356 BRACKET, STREET LIGHT GALV 10 FT W/SUPPO	37
2005357 BRACKET, SHOEBOX 90 DEG TRIPLE GRAY	16
2005358 BRACKET, STREET LIGHT GALV. 12 FT.	21
2005359 BRACKET, STREET LIGHT, 12' GALV STEEL, 1	80
2005360 BRACKET, STREET LIGHT, 4' TAPERED ALUM.,	9
2005361 BRACKET, STREETLIGHT, 12' GALV STEEL, 5'	109
2005362 BRACKET, STREET LIGHT ALUM 6 FT AL POLE	13
2005363 BRACKET, SHOEBOX, DUAL MOUNT, 90 DEG, BR	2
2005364 BRACKET, POST TOP TWIN PARALLELE MTG, FI	9
2005365 BRACKET, STREET LIGHT ALUM 6 FT TAPER TR	11
2005366 BRACKET, STREET LIGHT ALUM 8 FT TAPER TR	3
2005367 BRACKET, SHOEBOX, DUAL MOUNT, 90 DEGREE,	10
2005368 BRACKET, STREET LIGHT ALUM 10 FT TAPER T	2
2005370 BRACKET, STREETLIGHT ALUM 12 FT TAPER TR	15
2005371 BRACKET, STREETLIGHT 4FT, TAPERED AL, 2"	3
2005372 BRACKET, STREET LIGHT ALUM 15 FT TAPER T	3
2005373 BRACKET, STREETLIGHT, GALVANIZED, 9 1/2"	525
2005374 BRACKET, SINGLE MOUNT, SHOEBOX GALVANIZE	354
2005377 POWERDOOR BALLAST ASSEMBLY, 400W, 120/20	101
2005378 SHIELD, LUMINAIRE, ALUMINUM	10
2005390 BREAKER, CIRCUIT 60 AMP 480V AC PREMIUM	1
2005391 SHORTING CAP, PHOTO CONTROL RECEPTACLE	1644
2005397 CONNECTOR, FUSED WATERPROOF URD #6 LINE	8796
2005401 LUMINAIRE,SALEM,WHT PT,175W MH,MULTI-TAP,PREM	1
2005402 LUMINAIRE, SALEM, WHITE 150W MH, 120/208	1
2005403 LUMINAIRE, SALEM, BLACK, 150W MH, 120/20	28
2005404 STANDOFF, PHOTO CONTROL EXTENSION ANSI C	9
2005405 LUMINAIRE,ENHNCD CLASSIC,BLK PT,100W HPS	103
2005406 LUMINAIRE,ENHNED CLASSIC,BLK, PT,100W HP	2

2005407 LUMINAIRE,ENHNCD CLASSIC,WHT PT,RD WY,175W MH,MULTI-TAP	1
2005408 LUMINAIRE, ENH CLASSIC,BLACK/GOLD, 150W	16
2005409 LUMINAIRE,ENHANCD CLASSIC,RDWY,100W,HPS,	7
2005410 FLOODLIGHT,POWER SPOT,METAL HALIDE,1000W	9
2005414 GLASSWARE, REPLACEMENT COOPER LIGHTING 2	3
2005416 GLASSWARE, REPLACEMENT HPS CONTEMPORARY	2
2005418 GLASSWARE, REPLACEMENT , HPS COLONIAL, 1	1
2005422 SHIELD, TOP AND TWO SIDES, ALUMINUM, FOR	2
2005423 SHIELD, GLARE 250 & 400W G.E. MV & HPS L	1
2005424 SHIELD, GLARE, 250W CORBA, BACK SIDE, TE	2
2005425 SHIELD, GLARE, 250W CORBA, FRONT SIDE, T	1
2005426 SHIELD, GLARE, 250W CORBA, LEFT AND RIGH	1
2005432 SHIELD, CURB SIDE, FOR GE 250/400W SHOEB	1
2005433 BARRIER, BIRD 4FT DADDI LONG LEGS W/DELR	1
2005434 SHIELD, VANDAL FOR 100W COBRA CUTOFF (TE	1
2005437 GLASSWARE, REPLACEMENT FLAT GLASS, FOR 4	5
2005438 GLASSWARE, REPLACEMENT FLAT GLASS, FOR 1	11
2005440 GLASSWARE, ACRYLIC REPLACEMENT, 50-150W,	19
2005448 GLASSWARE, REPLACEMENTAND DOOR, 1000W GR	5
2005453 GLASSWARE, REPLACEMENT, FOR GE SHOEBOX F	1
2005454 GLASSWARE, REPLACEMENT AND DOOR,BRONZE,	5
2005455 GLASSWARE, REPLACEMENT AND DOOR, 400W SH	2
2005456 GLASSWARE, GLASS REPLACEMENT, G.E. LUMIN	11
2005458 GLASSWARE, REPLACEMENT, HPS AND MH CLASS	10
2005459 GLASSWARE, REPLACEMENT TYPE III G.E. 40	10
2005460 GLASSWARE, REPLACEMENT, TYPE 3 HOLOPHANE	1
2005461 GLASSWARE, REPLACEMENT, HOLOPHANE ENHANC	1
2005462 GLASSWARE, REPLACEMENT FOR GE POWER SPOR	2
2005464 GLASSWARE, REPLACEMENT FOR GE POWER SPOR	1
2005470 FLOODLIGHT,POWER SPOT,METAL HALIDE,1000W	1
2005472 LUMINAIRE,CLASSIC,WHT PT,100W HPS,MULTI-	6
2005473 LUMINAIRE,CLASSIC,WHT PT,175W MH,MULTI-TAP,PREM,2PCS	1
2005474 LUMINAIRE, CLASSIC, WHITE, 150W MH, 120/	2
2005475 LUMINAIRE,CLASSIC,BLK PT,175W MH,MULTI-T	2
2005476 LUMINAIRE, CLASSIC, BLACK, 150W MH, 120/	6
2005477 LUMINAIRE, NITETORCH, HPS, 50W, 120V, NP	1
2005480 FLOODLIGHT, POWER SPOT, METAL HALIDE, 1000W PREMIU	1
2005481 BRACKET, SHOEBOX, SINGLE MTG, GRAY, PREM	132
2005482 LUMINAIRE,COLONIAL,BLK PT,175W MH,MULTI-TAP,WIRED 240V,	1
2005483 LUMINAIRE, COLONIAL, BLACK, 150W MH 120/	13
2005484 LUMINAIRE,COLONIAL,WHT PT,175W MH,MULTI-TAP,PREM.	1
2005485 LUMINAIRE, COLONIAL, WHITE, 150W MH, 120	1
2005486 BRACKET, FLOODLIGHT, DUAL MTG, GRAY, PRE	15
2005489 FLOODLIGHT, METAL HALIDE 1000W MULTI-VOL	33
2005491 FLOODLIGHT, MH, 400W, 120/208/240/277, B	1
2005492 FLOODLIGHT, BLACK, 350W MH, 120/208/240/	1
2005497 LAMP, HIGH PRESSURE SODIUM 50W CLEAR GLA	20
2005498 LAMP, MERCURY VAPOR 175W CLEAR, MOGUL BA	12
2005505 LAMP, HIGH PRESSURE SODIUM 100W UNIVERSA	18234
2005507 LAMP, METAL HALIDE 175W UNIVERSAL MOUNTI	356
2005508 LAMP, METAL HALIDE 150WATT, PULSE START	230
2005510 LAMP,MH400W,UNIVERSAL BURNING,MOGUL BASE	1154
2005511 LAMP, METAL HALIDE 350WATT, PULSE START	308
2005513 LAMP, METAL HALIDE 1000W, UNIV. BURN, CO	228
2005518 LAMP, INCANDESCENT 10W 120V MEDIUM BASE	2678

2005519 LUMINAIRE, YBOR CITY ARCH WAY, BRONNERS	57
2005520 SOCKET, LAMP USE WITH TEC 5585750 & 5585	200
2005522 FLOODLIGHT,HPS,250W W/PHOTOCONTROL RECEP	52
2005523 FLOODLIGHT, HPS, 400W, 120, CWA P/N P54S	53
2005528 FLOODLIGHT, HPS, 400W, 480V, TENON MTG., PREMIUM LTG.	1
2005529 FLOODLIGHT, HPS, 400W, 120/240V, TENON M	7
2005530 LUMINAIRE, AIRCRAFT OBSTRUCTION LIGHT, T	1
2005531 FLOODLIGHT, MH, 400W, 120/240V, TENON MTG., PREMIUM LTG	1
2005532 FLOODLIGHT, DARK BRONZE, 350W MH, 120/20	10
2005534 FLOODLIGHT, METAL HALIDE, 1000W, 120/208	4
2005537 FLOODLIGHT, MH, 1000W, 480V, TENON MTG.,	3
2005538 FLOODLIGHT, MH, 1000W, 120/240V, TENON M	16
2005539 FLOODLIGHT, MH, 400W, 480V, TENON MTG., PREMIUM LTG.	1
2005540 FLOODLIGHT, DARK BRONZE, 350W, MH,480V	2
2005545 LUMINAIRE, HPS, 250W, 120/208/240/277V M	7
2005546 LUMINAIRE, HPS, 150W, 120/208/240/277V,	10
2005548 LUMINAIRE, HPS, 150W, 120 VOLT, MAGNAPAK	1
2005551 LUMINAIRE, HPS, 150W, 120/208/240/277V,	352
2005567 LUMINAIRE, HPS, 400W, 480V, TYPE III, CU	2
2005568 LUMINAIRE, HPS, 250W, 480V, TYPE III, CU	4
2005570 LUMINAIRE,COLONIAL, BLK PT,100W HPS,MT-W	53
2005571 LUMINAIRE, HPS, 400W, 120/208/240/277V,	36
2005572 LUMINAIRE, HPS COACH 70W, 120V TYPE III	87
2005573 LUMINAIRE, HPS CONTEMPORARY 70W, 120V TY	2
2005574 LUMINAIRE, HPS, 250W, 120/208/240/277V,	837
2005575 LUMINAIRE, HPS, 250W, 120/208/240/277V,	401
2005576 LUMINAIRE, HPS, 70W, 120V, TYPE II	117
2005577 LUMINAIRE, HPS, 100W, 120/208/240/277V,	744
2005578 LUMINAIRE, NEMA HEAD, HIGH PRESSURE SODI	139
2005579 LUMINAIRE, NEMA HEAD, HIGH PRESSURE SODI	66
2005580 LUMINAIRE, HPS, 50W, 120V, TYPE II	101
2005584 LUMINAIRE, HPS, 250W 480V TYPE III	39
2005587 LUMINAIRE,CLASSIC,BRONZE,PT,100W,MULTI-TAP,PREM,2PCS	1
2005592 LUMINAIRE, SHOEBOX 400W HPS BRONZE 480V	7
2005593 LUMINAIRE, SHOEBOX 400W HPS BRONZE 120/2	26
2005594 LUMINAIRE, SHOEBOX, HPS, 250W,120/240, BRONZE, PREM.LTG	1
2005595 LUMINAIRE, SHOEBOX 250W HPS BRONZE 480V	20
2005596 LUMINAIRE, SHOEBOX, HPS, 100W, 480V, BRONZE, PREM. LTG.	1
2005597 LUMINAIRE, CONTEMPORARY, HPS, 100W, 120/	1
2005598 LUMINAIRE, SHOEBOX, HPS, 100W, 120/240V, BRONZE, PREM.	1
2005600 LUMINAIRE, SHOEBOX 1000W MH BRONZE 480V	11
2005601 LUMINAIRE,CLASSIC,BLK PT,100W HPS,MULTI-	115
2005602 LUMINAIRE, HPS, 400W, 120/208/240/277V,	301
2005603 LUMINAIRE,PROMENADE,BLK PT,100W HPS,MULT	6
2005604 LUMINAIRE, HPS, 100W, 120/208/240/277V,	99
2005606 LUMINAIRE, HPS, 100W, 120 VOLT, MAGNAPAK	14
2005607 LUMINAIRE, HPS, 150W, 480V, CUTOFF	1
2005608 LUMINAIRE, HPS 150W 480V TYPE III	4
2005609 LUMINAIRE, HPS, 400W, 480V, TYPE III	31
2005615 LUMINAIRE, SHOEBOX, MH, 400W, 120/208/240/277 VOLT, BLA	1
2005616 LUMINAIRE, SHOEBOX, BLACK, 350W MH, 120/	11
2005618 POLE, FIBERGLASS FLUTED 16 FT BLACK SURF	1
2005620 POLE, ALUMINUM 10 FT BLK FINISH, USED W/	1
2005623 LUMINAIRE, SHOEBOX 400W MH GRAY 120/208/	2
2005624 LUMINAIRE, SHOEBOX, GRAY, 350W MH, 120/2	1



2005625 LUMINAIRE, SHOEBBOX 400W MH GRAY 120/208/	11
2005626 LUMINAIRE, SHOEBBOX, GRAY, 350W MH, 120/2	19
2005627 LUMINAIRE, SHOEBBOX 400W MH DARK BRONZE 1	1
2005628 LUMINAIRE, SHOEBBOX, DARK BRONZE, 350W MH	1
2005632 POLE, ALUMINUM, 16 FT DK BRONZE, SMOOTH	1
2005636 LUMINAIRE, SHOEBBOX, MH, 400W, 120/208/240/277 VOLT	1
2005637 LUMINAIRE, SHOEBBOX 400W MH AUTO REG BALL	1
2005638 LUMINAIRE, SHOEBBOX, DARK BRONZE, 350W MH	6
2005639 LUMINAIRE, SHOEBBOX 400W MH 120/208/240/2	9
2005640 LUMINAIRE, SHOEBBOX, DARK BRONZE, 350W MH	55
2005641 LUMINAIRE, SHOEBBOX, BLACK, 350W MH, 120/	8
2005642 LUMINAIRE, SHOEBBOX, MH, 400W, 480V, AUTOREG BALLAST	1
2005643 LUMINAIRE, SHOEBBOX, DARK BRONZE, 350W MH	1
2005645 LUMINAIRE, METAL HALIDE HORIZ BURN 1000W	2
2005649 POLE,WINSTON,FIBERGLASS,16',BLACK,3"MTG	726
2005650 POLE, FIBERGLASS 16 FT WHITE POST-TOP LU	3
2005652 POLE, ALUMINUM, TAPERED, 16', BLACK, 3"	5
2005653 POLE, ALUMINUM, TAPERED, 16', BLACK, 3"	14
2005654 POLE, CHARLESTON ALUMINUM TAPERED 16' BL	1291
2005658 POLE, ALUMINUM, 16FT., BLACK SMOOTH SURF	1
2005659 LUMINAIRE,COLONIAL,WHT PT,100W HPS,MULTI	2
2005660 LUMINAIRE,SALEM,BLK PT,100W HPS, MULTI-T	483
2005661 LUMINARE,SALEM,WHT PT,100W HPS MILTI-TAP	3
2005662 LUMINAIRE, MONGOOSE, 400W HPS, MULTITAP,	7
2005664 POLE, ALUMINUM 18 FT DIRECT IMBEDMENT, B	1
2005665 POLE,FRANKLIN,COMP.FLUTED,16'BLACK,3"MTG	205
2005667 POLE, COMPOSITE, FLUTED, 16FT. BLACK FIN	1
2005668 LUMINAIRE, HPS, 250W, 120/208/240/277V,	7
2005669 STARTING AID CIRCUIT, 100W, HPS, ENCAPSU	13
2005671 POLE,ALUMINUM 27 FT 2 IN SINGLE BRACKET,	14
2005672 POLE, ALUMINUM 29'8", W/BOLT ON 2-3/8 OD	1
2005673 POLE,ALUMINUM 37 FT 2 IN QUAD-MTG,PREM L	3
2005674 POLE,ALUMINUM 27 FT 2 IN W/HANDHOLE,TWIN	10
2005675 POLE, ALUMINUM 37 FT 2 IN,TWIN BRACKET,	7
2005676 POLE, ALUMINUM 28 FT W/HANDHOLE DIRECT B	11
2005678 POLE, ALUMINUM 32 FT 2 IN W/HANDHOLE DB	11
2005680 POLE, STEEL 30', 2-3/8" PTT .188" WALL D	1
2005681 POLE, STEEL, 30', 2-3/8" TENON, BLK, EPA	1
2005683 POLE, GALVANIZED 26 FT 3/4 IN TRANSF BAS	1
2005684 POLE, GALVANIZED 28 FT 6 IN ANCHOR BASE	1
2005685 POLE, ALUMINUM, 16 FT WHITE SMOOTH SURFA	1
2005687 POLE, ALUMINUM TAPERED, 16FT, PAINTED WH	2
2005688 LUMINAIRE, METAL HALIDE, HORIZ BURN 400W	5
2005689 LUMINAIRE, COBRA, GRAY, 350W MH, MULTI-T	1
2005691 COVER, STREET LIGHT TRANSFORMER BASE, ST	26
2005694 DECAL, "7" LUMINAIRE BLACK ON YELLOW 1-1	864
2005695 LUMINAIRE, SHOEBBOX, HPS, 100W 120/208/24	14
2005696 GLASSWARE, REPLACEMENT FOR DECORATIVE CO	1
2005700 GLASSWARE, REPLACEMENT, OPEN BOTTOM FIXT	7
2005702 GLASSWARE, REPLACEMENT FOR HOLOPHANE COL	10
2005704 BRACKET, FLOODLIGHT, STEEL, QUAD MTG-IN	2
2005705 BALLAST TRAY, 100HPS HOLOPHANE MTBALLAST	118
2005711 BALLAST TRAY, 150WATT MH HOLOPHANE PULSE	14
2005712 BALLAST TRAY, 175MH HOLOPHANE MTBALLAST	17
2005724 LUMINAIRE,ENHNCD CLASSIC,BLK PT,RD WY,175W MH,MULTI-TAP	1

2005726 LUMINAIRE, PRISMALUME 400W MH MT TAP ENE	2
2005730 POLE, GALVANIZED STEEL 110 FT 230KV TANG	3
2005752 BALLAST, 1000W METAL HALIDE COOPER LIGHT	15
2005758 POWERDOOR, BALLAST TRAY ASSY HPS 400W 48	18
2005763 RELAY, STREET LIGHT, 100 AMP, 277/480 VO	4
2005764 COVER, PHOTO CONTROL FOR CHECKING OPERAT	7
2005765 RELAY, STREET LIGHT, 60 AMP, 277/480 VOL	4
2005767 PHOTO CONTROL, 120V, BUTTON TYPE, W/MOV	193
2005768 PHOTO CONTROL, 1000W, 277 VOLT OPERATION	8450
2005769 PHOTO CONTROL, 1000W GRAY COVER 120V	11183
2005770 PHOTO CONTROL, 1000W BLUE COVER 120/240V	9
2005771 PHOTOCONTROL, ELECTRONIC 105-135VAC P/N	2
2005772 PHOTO, CONTRL (DUMMY) RED COVER SILENT S	673
2005773 RELAY, SECONDARY, 60A, 250V, 2 POLE, 120	15
2005776 RELAY, SECONDARY 100A 250V 2 POLE 120V C	7
2005778 PHOTO CONTROL, 1200W, 240V, BUTTON TYPE	14
2005780 PEDESTAL, CONCRETE, 6" X 6" X 8', PREMIU	7
2005782 RELAY, MULTIPLE 30 WATTS 105-135 VOLTS S	6
2005786 RELAY, REPL. PTS, 100 AMP LIGHTING CONTA	3
2005787 STARTING AID CIRCUIT BOARD, HPS G.E. 35	2367
2005791 BOARD, STARTING AID CIRCUIT HPS G.E. 50	30
2005792 BOARD, STARTING AID CIRCUIT HPS AM ELEC	81
2005793 STARTING AID CIRCUIT, HPS 50W-150W PREMI	23
2005794 STARTING AID, FOR 400 WATT HOLOPHANE LUM	8
2005797 CAPACITOR, 56UF, FOR 400 WATT HOLOPHANE,	17
2005812 STARTING AID CIRCUIT BOARD, HPS G.E. 250	30
2005813 STARTING AID CIRCUIT BOARD, HPS AM ELEC	20
2005814 STARTING AID CIRCUIT BOARD, HPS G.E. 250	579
2005815 STARTING AID CIRCUIT BOARD, AMERICAN ELE	25
2005816 SOCKET KIT, MOGUL SOCKET BASE W/LEADS P/	18
2005817 CAPACITOR, FOR 400W SHOEBOX, 26UF 50/60H	87
2005827 CAPACITOR, FOR 400W SHOEBOX, 20UF, 50/60	817
2005830 CAPACITOR, 24UF, FOR GE 400W BALLAST, 58	77
2005831 CAPACITOR, 28UF 50/60HZ 250W HPS LUMINAI	566
2005832 CAPACITOR, 48UF 50/60HZ 400W HPS LUMINAI	402
2005833 CAPACITOR, 36/12UF 250/400W HPS LUMINAI	441
2005834 CAPACITOR, FOR HOLOPHANE POST TOP FIX. 1	237
2005843 CAPACITOR, REPLACEMENT FOR A 150WATT MH	24
2005844 FLOODLIGHT, METAL HALIDE, 400W, 120/208/	4
2005845 FLOODLIGHT, GRAY, 350W MH, 120/208/240/2	23
2005846 ADAPTER, SOCKET PORCELAIN, MEDIUM TO MOG	4
2005847 TIMER, LIGHTING, ELECTRONIC MULTI-SETTIN	4
2005849 POLE, STEEL 30', 2-3/8" PTT .250" WALL D	1
2005851 RELAY, ST.LGT,100A,120VOLT - 480VOLT,PRE	3
2005852 SWITCH, STREET LIGHT PRIMARY OIL 14KV 20	1
2005854 CAP, POLE 6IN FOR 27FT ALUMINUM POLE P/N	7
2005855 BRACKET, FLOODLIGHT, STEEL, TRI-MTG PREM	2
2005856 POLE, STEEL 30', 2-3/8" PTT .188" WALL B	1
2007214 CABLE ASSEMBLY, CONTROL STREET LIGHT OIL	1
2007216 PLUG, CONDUCTOR ACCESSORY 5 PIN DWG Q550	5
2007227 CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER	2
2007288 COMPOUND, DUCT SEALING 1 LB PACKAGE	2
2007323 CROSSBRACE, FIBERGLASS USE WITH SIGN STA	1
2007414 TAPE, PULLING, POLYESTER, RATED AT 1250#, W/PRINTED SEQ.	3000
2007621 TAPE, BARRICADE "REPAIR/CONSTRUCTION" 3"	36

2007662 DOOR, ACCESS (DOGHOUSE)	2
2007739 DOOR, ACCESS OVAL 16X21 REFRACTORY W/O F	2
2007837 FIXTURE, LIGHT INCANDESCENT 150-300 W PE	1
2007841 GLOBE, FIXTURE V-51 150-300 W SERIES CLE	4
2007844 FIXTURE, LIGHT INCANDESCENT 60-150 W PEN	2
2008477 GLOBE, GLASS HOLOPHANE P/N 579	3
2008708 DOOR, ACCESS 2' DIA 1996 RETROFIT DWG E-	2
2008796 LAMP, 120V 40W MEDIUM A-15 P/N 40A15	8
2008797 LAMP, 120V 50W MEDIUM A-19 P/N 50A/VS	13
2008798 LAMP, 12V 75W MEDIUM A-21 P/N 75A21	143
2008799 LAMP, 130 VOLT 100 WATT MEDIUM A-19 P/N	1404
2008800 LAMP, FLOODLIGHT 120V 90W MED SKIRT	3
2008801 LAMP, 120V 202W MEDIUM PS-25 #202PS25	48
2008802 LAMP, INFRARED HEAT 120V 250W P/N #250R4	18
2008803 LAMP, FLUORESCENT RAP START 2 PIN 40W	899
2009241 LAMP, 120V 300W MOGUL PRONG PAR-56 #300	3
2009414 LAMP, FLUORESCENT SLIMLINE 1 PIN 75W P/N	127
2009415 LAMP, FLUORESCENT RAP START R.D.C. 215W	11
2011864 GASKET, ACCESS COVER FIG 9 ITEM 18 P/N 3	7
2012264 GUARD, LAMP FITS 1-1/2 IN DIA SOCKET FOR	67
2012324 LAMP, MINI-MAG FLASHLIGHT 2 EA MODEL NO.	2
2012838 LAMP, XENON PELICAN VERSABRIGHT SWIVEL-H	10
2014736 LED ASSEMBLY, RED P/N 33686	3
2014737 LED ASSEMBLY, GREEN P/N 33687	2
2014738 LED ASSEMBLY, YELLOW P/N 33688	3
2014795 LENS, BONES REPLACEMENT SMOKE B GUARD DOG	48
2015273 LAMP, LED PILOT LIGHT WHITE P/N 800T-N32	2
2015330 DOOR, 20 INCH X 30 INCH DWG. 82214 & 822	1
2015394 DOOR, MILL SIDE INSPECTION (UNDER BOWL)	1
2015396 LIGHT, WORK 25FT W/2 13W FLOURESCENT BUL	24
2015794 FLOODLIGHT, 1000W 120/240V POWERFLOOD P/	1
2015795 FLOODLIGHT, 1000W 480V POWERFLOOD P/N PF	2
2015883 DOOR, ACCESS SLAG TANK	1
2016314 LAMP, INCAND 130V 60W #60A A-17 FROSTED	62
2016950 BALLAST, ELECTRONIC (FOR USE WITH 8' T-8	4
2017011 LAMP, 24.00V .035A TEL SLIDE #2 T-2 #24X	106
2017012 LAMP, 145.00V 6.000W CAND S-6 #6S6	3
2017013 LAMP, 145.00V 6.000W DC BAY S-6 #6S6DC	10
2017015 LAMP, T3.25	11
2017016 LAMP, 6.30V .150A MIN BAY T-3-3/4 (#755)	138
2017017 LAMP, 14.40V .120A MIN BAY G-3-1/2 #53	11
2017018 LAMP, 7.00V .410A MIN BAY G-4-1/2 P/N 55	7
2017019 LAMP, 120.00V .025A MIN BAY T-2-1/2 P/N	80
2017020 LAMP, 120.00V .025A TEL SLIDE #5 T-2 #12	55
2017021 LAMP, 6.30V .250A WEDGE T-3-1/4 P/N 259	2
2017022 LAMP, 28.00V .170A MIN BAY T-3-3/4 #313	12
2017023 LAMP, 6.00V .200A SC MID FLG T-1-3/4 #32	31
2017024 LAMP, 14.00V .080A SC MID FLG T-1-3/4 #3	53
2017025 LAMP, 28.00V .040A SC MID FLG T-1-3/4 P/	30
2017026 LAMP, 28.00V .080A MIN BAY T-3-1/4 #757	8
2017028 LAMP, 28.00V .100A MIN BAY T-3-1/4 #1820	10
2017029 LAMP, 28.00V .070A MIN BAY T-3-1/4 #1829	29
2017030 LAMP, 55.00V .050A MIN BAY T-3-1/4 P/N 1	829
2017032 LAMP, FLUORESCENT GENERAL LINE 2 PIN 8W	2
2017034 LAMP, FLUORESCENT GENERAL LINE 2 PIN 15W	2

2017035 LAMP, FLUORESCENT GENERAL LINE 2 PIN 20W	4
2017036 LAMP, FLUORESCENT U-SHAPED 2 PIN 40W P/N	7
2017037 LAMP, NEON 1/4W 105-125V NE45	24
2017038 LAMP, NEON 1/4W 105-125V NE51 (B1A)	17
2017039 LAMP, MERCURY VAPOR 100W #H38JA100DX	8
2017041 LAMP, MERCURY VAPOR 400W P/N H33GL-400/	4
2017042 LAMP, QUARTZ 500W 120V 500T3Q/CL	32
2017043 LAMP, 120V 10W MEDIUM S-14 #10S14/IF	6
2017046 LAMP, 120V 25W MEDIUM T-10 #25T10	5
2017070 LAMP,FLUORESCENT PIN 30W F30T12/CW/RS	3
2018042 LENS, WELDERS FILTER SHADE AA4H 50MM HAR	140
2019404 LAMP, NEON NE-58 ANSI F4A BULB T-4-1/2 V	14
2019405 LENS, CAP FACETED TORPEDO SHAPED AMBER P	25
2020140 BALLAST, FLUORESCENT FOR 2 F40T10 & F40T	33
2020245 DOOR, WATERPROOF ENCLOSURE P/N 12-505-0	1
2020926 LIGHT, INDICATING COMPLETE GE ET-16 W/2K	3
2021060 BALLAST, FLUORESCENT FOR 2 F72 OR 96T10	1
2021127 LAMP, 120.00V .025A 2-PIN CART T-2 #120P	55
2021191 LAMP, BALLAST P/N 52148	4
2021393 LIGHT, PILOT 110/120VAC P/N 800T-P16	2
2021478 bulb, rubber automatic pipet 5ml	10
2021666 LAMPHOLDER, STONCO #150-L	2
2022010 DOOR, ITEM 4	1
2022013 DOOR, OBSERVATION 4-1/4 (COMPLETE ASSY)	2
2022313 LAMP, 130 VOLT 116 WATT MEDIUM A-21 P/N	12
2022540 BALLAST, FLUORESCENT LIGHT 220V ADVANCE	3
2022823 FIXTURE, LIGHTING W/OUT GLOBE & GUARD P/	2
2023230 BALLAST ASSY, GE WALL PACK C699N600 P/N	1
2023243 FIXTURE, WALL PK	3
2023619 LENS, CARTRIDGE TRANSPARENT RED P/N 301	3
2023621 LENS, CARTRIDGE TRANSPARENT GREEN P/N 30	18
2023671 REFRACTOR AND DOOR ASSEMBLY, P/N 35-961-	2
2023678 FIXTURE, FLUORESCENT 240V 2 F40/CW TUBES	2
2023704 HOOD, PENDANT MOUNT BALLAST HOUSING 3/4	6
2023760 FLOODLIGHT, QUARTZLITE 300/500W WIDE BEA	2
2023961 LENS, CAP FACETED TORPEDO SHAPED WHITE P	1
2024220 LAMP, 6.30V .150A MIN 2-PIN T-3-1/2 #12	1
2024647 LIGHT, INDICATING LENS 5/8 X 3/4 P/N 554	6
2025017 FIXTURE, FLUORESCENT 120V 1 F15T12 18 IN	7
2025059 LAMP, FRONT PANEL P/N 31026339	3
2025060 LENS, RED P/N 31050198	2
2025061 LENS, WHITE P/N 31050197	2
2025111 LIGHT, INDICATING GREEN LED P/N 31057347	19
2025113 LIGHT, INDICATING AMBER LED P/N 31057348	19
2025149 LENS, BI-METAL THERMOMETER STYLE AI 3 IN	2
2025426 LAMP, 120V 40W MEDIUM A-21 RED	2
2026034 BEACON, ROTATING COLOR AMBER 120VAC 60HZ	1
2026130 LIGHT, INDICATING GREEN P/N CR104PLG22G	4
2026166 LIGHT, INDICATING 120VAC AMBER 5W P/N 21	12
2026167 LIGHT, INDICATING 120VAC GREEN 5W P/N 21	7
2026168 LIGHT, INDICATING 120VAC RED 5W P/N 2150	8
2026202 BALLAST, HIGH PRESSURE SODIUM 150W MULTI	33
2026410 LAMP, FLUORESCENT MEDIUM BASE 120V 30W	22
2026493 LAMP ASSY, P/N 4011-33	3
2026506 LED, RED 55V P/N 1MB-B-R-120	4

2026507 LED, GREEN 55V P/N 1MB-B-G-120	4
2026508 LED, YELLOW 120V P/N 6S6-Y-120-VAC	11
2026509 LED, RED 120V CANDELABRA BASE	6
2026510 LED, GREEN 120V P/N 6S6-G-120-VAC	8
2026514 LAMP ASSY, P/N 46979-00	2
2026615 LAMP, UV SOURCE FOR TECO MODEL 43B SO2 A	2
2026628 LAMP, HIGH PRESSURE SODIUM, 1000 WATT, H	2
2027701 LAMP, EXIT LIGHT P/N 0150CL/DC	8
2027702 BALLAST, FLUORESCENT 120V 2-96 IN LAMPS	1
2027704 LAMP, METAL HALIDE 250W E-28 BULB MOGUL	20
2027705 LAMP, METAL HALIDE 175W E-28 BULB MOGUL	12
2027739 LIGHT, INDICATING E2C MINALITE P/N 449D1	3
2027740 LIGHT, INDICATING E2C MINALITE P/N 449D1	4
2027837 LAMP COVER, WHITE SIGNAL LAMP W/BULB #T0	4
2027838 LAMP, GLOW SIGNAL LAMP M64822	12
2027861 ARRESTOR, LIGHTNING 12KVAH	3
2027885 BALLAST, 443-L-SLH-TC-P	6
2027888 BALLAST, 487-SLH-TC-P	4
2027924 BALLAST, SINGLE C779N805	2
2028010 LAMP, MINALITE SWITCHGEAR INDICATOR LIGH	1
2028095 SOCKET, LAMP IT 200 P/N 2B2-BU6 6137130	8
2028125 LAMP, CARTRIDGE 28V 40MA DIALCO #507-39	19
2028136 LAMP, 36V 5 WATT BASE BA15D DOUBLE CONTA	22
2028142 LAMP, EMERGENCY, 12 VOLT, 12 WATT P/N H1	4
2028987 LED, AMBER 110V 3E LEDTRONICS P/N BSD-11	2
2028999 LAMP, INDICATING RED TRANSFORMER TYPE P/	2
2029000 LAMP, INDICATING GREEN TRANSFORMER TYPE	3
2029001 LAMP, INDICATING AMBER TRANSFORMER TYPE	1
2031215 BULB, LIGHT 8.5W 120V 800 LUMENS	25
2031371 LAMP 255511001	1
2031786 LAMP, 130V 60W MEDIUM 60A/CL	28
2032064 LIGHT, PILOT 120VAC W/RED CAP 800T-P16R	2
2032870 GLOBE, FIXTURE V-51 60-150W SERIES BLUE	4
2032965 DOME, STANDARD FIBERGLASS 16 IN P/N VMPS	1
2033246 SOCKET, LAMP WITH LEADS 965452-16	2
2033842 LAMP, PANALARM P/N JKL85W	10
2033989 LAMP, SUPERFLOOD NO. 1 (FOR X-RAY VIEWER	1
2034166 LAMP, FLUORESCENT U-SHAPED 31W #FBO31/84	8
2034170 SPOTLAMP, SAFETY 6 VOLT 30 WATT SCREW TE	1
2034246 LAMP, 18W 120VAC 4 PIN P/N CF180DD/E/83	6
2034247 LAMP, EXT. SVCE MED. BASE HPS 100W 130VD	6
2034560 LAMP, METAL HALIDE 1500W P/N MVR1500/U/S	5
2035473 SOCKET, LAMP FLOURESCENT 120V P/N NVQFC	2
2036360 LIGHT, CONDENSER WITH IN-LINE TRANSFORME	4
2036706 LAMP, 130.00V 6.000W CAND S-6 #6S6	96
2036707 LAMP, 12.00V 6.000W CAND S-6 #6S6	10
2036708 LAMP, 120.00V 6.000W DC BAY S-6 #6S6DC	15
2037482 LAMP, NEON 22K CLEAR P/N 507-4538-1437-6	25
2037483 LAMP, NEON 33K #507-438-1437-630	11
2037484 LAMP, NEON 22K #507-4538-1537-610	40
2037485 LAMP, FLUORESCENT CIRCLINE 4 PIN 22W P/N	1
2037486 LAMP, 120V 25W MEDIUM A-19 #25A/R	1
2037487 LAMP, AUTOMOTIVE 35W 12V #4411	2
2037488 LAMP, 130V 15W MEDIUM A-15 #15A15	12
2037489 LAMP, 120V 200W MED SIDE PRONG PAR-46 #2	10

2037495 LAMP, 6.00V 6.000W CAND S-6 #6S6	94
2037496 LAMP, #367	280
2037497 LAMP, 130.00V 3.000W CAND S-6 #3S6/5	22
2037498 LAMP, CARTRIDGE 28.00V .04A P/N 507-3917	27
2037499 LAMP, 14.00V .200A MIN BAY T-3-1/4 #1815	44
2037500 LAMP, 14.00V .200A MIN SCREW T-3-1/4 #14	15
2037501 LAMP, 10W 230V CANDELABRA BASE S-6 BULB	15
2037502 LAMP, 14.00V .080A MIN BAY T-3-1/4 #756	20
2037504 LAMP, 6.30V .200A MID SCREW T-1-3/4 #378	55
2037505 LAMP, 60.00V .050A TEL SLIDE #5 T-2 #60P	46
2037506 LAMP, 5.00V .500A MIN SCREW G-4-1/2 #425	20
2037508 LAMP, 6.30V .150A WEDGE T-3-1/4 #159	24
2037514 LAMP, FLUORESCENT GENERAL LINE 2 PIN 6W	4
2037516 LAMP, CARTRIDGE 120.00V .025A P/N 507-58	30
2037517 LAMP, NEON 33K #507-4538-1531-630	78
2037518 LENS, CARTRIDGE TRANSLUCENT RED P/N 301	7
2037537 LIGHT, FLUORESCENT WORK LIGHT 120V 50FT	1
2037771 LAMPHOLDER, STANDARD BASE P/N V84	7
2037772 SOCKET, LAMP RECEPTACLE STANDARD BASE P/	3
2037788 FIXTURE, OBSTRUCTION LIGHT WITH RED GLAS	1
2038414 LAMP, 120V 20W INTERMEDIATE T-6-1/2 P/N	9
2038978 LAMPHOLDER, P/N 250-8745-14-504	14
2039184 GLOBE, 150 WATT C-H #G53	1
2039211 GLOBE, 1203 LAMP CONDENSER P/N 1253	3
2039356 BALLAST, FLUORESCENT 120V UNIVERSAL #930	1
2039514 LENS, GLASS 0181.0005C	3
2039653 INDICATING LIGHT, 110-125VAC OR DC CAT N	6
2039737 LIGHT, PILOT (RA5 SOLUMETER) P/N 35971L	2
2039778 SOCKET, LAMP P/N 470142	12
2039855 LAMP, 1.20V .220A MIN SCREW TL-3 #112	23
2039910 FIXTURE, FLUORESCENT LIGHT 115V 60W FOR	20
2039911 LAMP, MERCANDESCENT 160W #M160R2/FL	10
2040023 LENS, COVER LUCITE P/N 0181.0038.C	4
2040350 GUARD, GLOBE FOR VDC25 FIXTURE P/N P50	1
2040410 FIXTURE, LIGHTING W/O GLOBE & GUARD TYPE	1
2040411 FIXTURE, LIGHTING WITHOUT GLOBE & GUARD	2
2040704 LAMP, NEON MINIBAY BASE T3 1/4	9
2040794 LIGHTBOX, (INCLUDE LAMP, SOCKET, BAFFLE	1
2040948 LIGHT UNIT, PILOT TRANSF TYPE 120V W/RED	6
2040950 LIGHT, INDICATING TRANSFORMER 480V W/RED	6
2040951 LIGHT, INDICATING TRANSFORMER 120V W/GRE	2
2040952 LIGHT, INDICATING TRANSFORMER 120V W/WHI	1
2040979 LIGHT, INDICATING TRANSFORMER 120V W/AMB	4
2041001 LAMPHOLDER, PHENOLIC W/6W 125V LAMP BRYA	2
2041021 LAMPHOLDER, FLUORESCENT STATIONARY END B	6
2041030 LIGHT, INDICATING GREEN LENS DIALCO #95-	8
2041032 LIGHT, INDICATING AMBER LENS DIALCO #103	1
2041081 FIXTURE, LIGHT COMPLETE 1/2 IN C-H #V-16	2
2041124 LIGHT, INDICATING PANEL MOUNT 120V AC/DC	1
2041298 BALLAST, FLUORESCENT 118V GE #89G713 FOR	3
2041324 LIGHT, INDICATING TRANSFORMER 120VAC #OT	12
2041327 LAMPHOLDER, FLUORESCENT L240 LITHONIA FI	8
2041474 LIGHT, EMERGENCY GENERAL PURPOSE RED 12	2
2041483 LAMP, FLANGED BASE NEON MINIATURE MSC 11	40
2041576 BALLAST, FLUORESCENT FOR 2 36 42 48 SLIM	1

2041579 BALLAST, FLUORESCENT 120V P/N 480XLHTCP	3
2041595 BALLAST, FLUORESCENT FOR 1 14 15 20 WATT	2
2041597 BALLAST, FLUORESCENT 120V GE #6G3560 FOR	3
2041628 SOCKET, LAMP FOR STONCO #4600E P/N 7261-	10
2041636 LIGHT, INDICATING FULL VOLTAGE 120V AC/D	2
2041639 BALLAST, MERCURY LAMP 100 W H38 240VAC A	3
2041726 LIGHT, INDICATING 125V AC/DC GE #CR2940U	2
2041744 LAMP, AUTOMOTIVE 12V P/N 4405	2
2041805 LAMP, 120V 150W MEDIUM PS-25 #150/RS	179
2041871 LAMP, AS NEO RED 115 VOLTS DS3 P/N 205-1	18
2042014 BALLAST, HIGH PRESSURE SODIUM 100W MULTI	3
2042104 LAMP, 12.00V .170A TEL SLIDE #5 T-2 #12P	77
2042107 SOCKET, LAMP FOR VMVC 120/240 FIXTURE C-	11
2042140 LAMPHOLDER, SOCKET MED BASE BENJAMIN 236	2
2042143 LIGHT, INDICATING AMBER LENS DIALCO #95-	2
2042147 REMOVER, BROKEN LAMP BASE, STANDARD AND	3
2042160 LAMP, 24.00V .035A TEL SLIDE T-2 P/N 24E	8
2042431 PHOTO CONTROL, ELECTRIC 120VAC SUPPLY 30	1
2042446 HOUSING, BALLAST COMPLETE 100W C-H #VMVS	2
2042484 LIGHT, INDICATING COMPLETE WITH RED LENS	3
2042780 RESET, OSCILLATOR P/N 503B601H11	1
2042788 LIGHT, INDICATING TPE ET-16 120VAC W/O C	3
2042884 LAMP, CARTRIDGE 28.00V .04A DIALCO #507-	58
2043629 LAMPHOLDER, FLOURESCENT SLIMLINE GE P/N	6
2043630 LAMPHOLDER, FLOURESCENT SLIMLINE GE P/N	10
2043773 GLOBE, GLASS SMALL P/N H2000-GN	4
2043774 BALLAST, HIGH PRESSURE SODIUM 70W 120 VO	1
2043775 GUARD, SMALL GLOBE P/N H2000-NG	3
2043776 REFRACTOR, 8 IN GLASS TYPE V P/N H2000-V	4
2043777 GUARD, 8 IN REFRACTOR P/N H2000-N08	3
2043778 GUARD, 12 IN REFRACTOR P/N H2000-N12	6
2043779 MOUNT, FLEXIBLE PENDANT 3/4 IN W/BALLAST	6
2043780 MOUNT, PENDANT 3/4 IN WITH BALLAST COVER	2
2043785 BALLAST, HPS 400W MULTIVOLTAGE LOW PROFI	3
2043786 MOUNT, WALL 3/4 IN WITH BALLAST COVER P/	2
2043787 MOUNT, ANGLE STANCHION 1-1/4 IN W/BALLAS	2
2043788 MOUNTING, CEILING 3/4 IN WITH BALLAST CO	1
2043789 MOUNT, STRAIGHT STANCHION 1-1/4 IN W/BLS	1
2043833 LAMPHOLDER, FLUORESCENT GE P/N ALF-812-0	7
2043835 LAMPHOLDER, FLUORESCENT GE P/N ALF-812-0	6
2043871 DOOR, DISCHARGE END ITEM 115	1
2043911 LAMP, PANEL P/N 3220017	3
2043941 GUARD, LARGE GLOBE P/N H2000-NF	8
2043942 GLOBE, GLASS LARGE P/N H2000-FN	8
2044407 LIGHT, INDICATING TRANSFORMER 120V W/WHI	1
2044464 LAMP, 75W 12V	6
2044561 LIGHT, INDICATING WITH AMBER LENSE P/N 9	3
2044562 LIGHT, INDICATING WITH GREEN LENSE P/N 9	1
2044563 LIGHT, INDICATING WITH RED LENS P/N 9001	1
2044564 LIGHT, INDICATING WITH WHITE LENSE P/N 9	3
2044768 LAMP, 5.00V .060A BI-PIN T-1-3/4 #3149	54
2046439 LAMP, 120.00V 20.000W DC BAY T-6-1/2 #20	47
2046804 LAMP, 24.00V 6.000W CAND S-6 #6S6	12
2046805 LAMP, NEON P/N 56-NE38-000	95
2047947 LIGHT, INDICATING TRANSFORMER #9001-KP-1	4

2048101 BALLAST, HIGH PRESSURE SODIUM 70W 240 VO	6
2048102 BALLAST, HIGH PRESSURE SODIUM 100W 240 V	2
2048692 LAMP, NEON INDICATOR MIDGET BASE FLANGE	14
2048772 LIGHT, GROUND DETECTION P/N 139-103-003	2
2048880 DOOR, W/COOLING COIL WO/FRAME ASSY A DWG	1
2048892 DOOR, W/LINER WO/FRAME 24 X 24 IN REF.1	2
2048909 DOOR, 4 IN X 10 IN C/I OBSERVATION REF 2	5
2048973 REFLECTOR, FINISHED DOME P/N H2000-001	2
2049027 LAMP, 120.00V 25.000W DC BAY T-8 P/N 25T	2
2049601 LIGHT, INDICATING 120VAC WHITE 5W P/N 21	1
2049803 INDICATOR LAMP ASSY, P/N XCS-0B30CL	1
2050060 LENS, SCANNER P/N A-987-029	15
2050124 LAMP, 24.00V .073A TEL SLIDE #5 T-2 #24P	14
2050133 INDICATOR LAMP ASSEMBLY P/N 35F2815 3015	1
2050984 LAMP, QUARTZ 300W 120V Q300T3/CL	7
2051942 DOOR, ACCESS 43" X 48" FLG TO FLG WTR CO	1
2051991 LAMP, DOUBLE CONTACT BAYONET BASE 120VAC	20
2052353 LAMP, INCANDESCENT, 69 WATT, 120VOLT, FOR	1
2052498 LAMP, 24VDC SERIES 90 P/N 85	15
2053006 LAMP, RED LED EXIT SIGN 1.5W 120VDC BAYO	10
2053127 LAMP, FLUORESCENT VERY HIGH OUTPUT 8FT P	4
2053128 BALLAST, FLOURESCENT FOR 2 F96T12/CW/VHO	2
2053130 BEACON, ROTATING AMBER 120VAC P/N 225	2
2053132 LAMP, ROTATING BEACON P/N K8107194A	2
2053231 BALLAST, FLOURESCENT RAPID START 40W P/N	1
2053969 DIVERTER, LIGHTING SURGE	1
2053972 BEACON, ALARM MULTI-COLOR LED 24VDC CHAM	2
2054402 BULB, FLASHLIGHT FOR STINGER 75001 P/N 7	8
2054491 LAMP, FLUORESCENT DELUXE 35K 2 PIN 17W P	4
2054531 LAMP, LED REPLACEMENT WHITE 24V P/N ECX1	1
2054642 LAMP, LED RED P/N 800T-N320R	7
2054643 LAMP, LED GREEN P/N 800T-N320G	8
2054753 BULB, FLASHLIGHT FOR ULTRA-STINGER P/N 7	2
2054783 LIGHT, VOLT P/N LVD1	4
2055072 LAMP, COMPACT FLOURESCENT 20W 1200 LUMEN	2
2055196 LAMP, METAL HALIDE 175W P/N M175/U/MED/E	57
2055306 LIGHT, PUSHBUTTON BLACK EXTENDED P/N 102	1
2055352 LAMP, METAL HALIDE 70W P/N MP70/U/MED	50
2055356 LIGHT, PILOT 16MM RESISTOR TYPE 125V P/N	2
2055357 LIGHT, PILOT 16MM RESISTOR TYPE 125V P/N	1
2055411 BALLAST, FLUORESCENT ELECTRONIC 120 VOLT	3
2055413 LAMP, FLUORESCENT U-SHAPED 4 PIN P/N PL-	4
2055415 LAMP, FLUORESCENT DESK LIGHT P/N F32T8/T	43
2055494 BALLAST, FLOURESCENT ELECTRONIC 120VAC P	4
2055665 LIGHT, INDICATING 16 MM P/N MRL125DLW-MP	2
2055705 LAMP, METAL HALIDE 250W MOGUL BASE P/N M	4
2055710 LAMP, METAL HALIDE 350W MOGUL BASE PULSE	3
2055711 LAMP, METAL HALIDE 250W MOGUL BASE PULSE	1
2056068 BALLAST, ELECTRONIC FLUORESCENT P/N ECOT	2
2056082 LIGHT, HAZARD WARNING	2
2056433 BALLAST, ELECTRONIC DIMMING P/N HDF240T5	1
2056477 LIGHT, RED PILOT 22MM LED P/N XB4BVG4	1
2056478 LIGHT, GREEN PILOT 22MM LED P/N XB4BVG3	1
2056765 LAMP, GREEN 24 VOLT P/N 800T-N319G	7
2056817 LENS, CLEAR INNER P/N 216327	19



2057150 LIGHT, PILOT 120 V YELLOW P/N 9001KP38LY	4
2057151 LAMP, LED YELLOW P/N 6508805211	4
2057152 LIGHT, PILOT 120 V GREEN P/N 9001KP38LG	2
2057153 LAMP, LED GREEN P/N 6508805212	4
2057154 LIGHT, PILOT 120 V RED P/N 9001KP38LRR31	2
2057155 LIGHT, PILOT 120 V BLUE P/N 9001KP38LLL3	4
2057156 LAMP, LED BLUE P/N 6508805213	4
2057175 FIXTURE, FLUORESCENT VAPOR PRF P/N VT223	1
2057197 LIGHT, ROTATING BEACON AMBER WITH HORN P	2
2057224 FIXTURE, LIGHT 100W P/N MGA10M1H43PGEF	1
2057251 LAMP, LED RED FOR MODULE 9001KM38LR P/N	4
2057371 LIGHT, ASSY LED GREEN W/LENS 120VDC C-H	1
2057372 LIGHT, ASSY LED RED W/LENS 120VDC C-H E3	1
2057433 LIGHT, INDICATING RED TXF P/N 10250T181L	1
2057474 LAMP, FLOURESCENT T-4 13 WATT FOR TSN 60	2
2057565 FIXTURE. EXPLOSION PROOF P/N MGH07M1H43W	2
2057774 PHOTOCONTROL, 480V 1000W P/N 30842	4
2057907 LAMP, GREEN LED 24V P/N LED24GN	1
2057908 LAMP, RED LED 24V P/N LED24RD	4
2057960 LAMP, PULSE START 400W/U/ED28/PS/740	4
2058097 KIT, BALLAST P/N M1000/SUPER5KIT	3
2058101 LAMP, METAL HALIDE 250W PULSE START CLEA	8
2058118 LAMP, METAL HAL. PULSE START 175W MGL CL	6
2058282 LAMP, 130.00V .250A MIN BAY T-3-1/4 P/N	37
2058330 SOCKET, FLUORESCENT STARTER G.E. #78X769	2
2058355 LAMP, QUARTZ 1500 W 240V Q1500T3/CL	2
2058623 LAMP, T3.25	9
2058724 BALLAST, MERCURY VAPOR 175W 120V P/N LPB	2
2061247 LAMP, INCANDESCENT 40 WATT 120 VOLT CLEA	7
2071926 BULB, EMERGENCY EXIT T5 6VDC P/N GE-909	5
2072064 LAMP, FLOURESCENT COMPACT 20W 120V P/N 2	19
2072086 BEACON, POSITION MONITORING P/N BM2-Y	1
2072132 LAMP LED WHITE 120V AC/DC T3-1/4 BASE P/	2
2074444 LAMP, HIGH PRES. SODIUM 600V 70W TYPE S6	2
2074628 BALLAST, 4-BULB 120V T8 INSTANT START P/	2
2074652 FIXTURE, EMERGENCY LIGHTING 2-BULB P/N N	3
2074656 LAMP, FLOURESCENT 32W U-SHAPED T8 BASE P	5
2074657 LAMP, CANDESCENT SWITCHBOARD 15W 145V 12	6
2074658 LAMP, LED REPLACEMENT GREEN P/N BF321-0A	1
2074918 LAMP, METAL HALIDE 400W P/N M400/U/BT-2	8
2075053 LAMP, METAL HALIDE 100W MED. BASE P/N MP	54
2075513 FIXTURE, LIGHT V SERIES P/N 302A4577P001	2
2076394 LIGHT INDICATING ASSY LED 120V AC/DC W/R	2
2076395 LIGHT INDICATING ASSY LED 120V AC/DC W/G	2
2076406 LAMP, LED RED 120V AC/DC T3-1/4 BASE P/N	4
2076407 LAMP, LED GREEN 120V AC/DC T3-1/4 BASE P	2
2076547 LAMP, LED 24V-DP T3-1/4 BASE P/N RMB119	1
2077753 BOLT, MACHINE 5/8" X 8", GALV.	2
2077754 BOLT, MACHINE GALV ROLLED THREADS 5/8 X 10	2
2077755 BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	1
2077783 NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	1
2077835 CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2
2077844 CONNECTOR, COMPRESSION H-BLOCK ACSR #4 STR AL #4 STR 6-	2
2077930 CONNECTOR, VICE CU #4 STR	1
2078006 WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	1

2078008 WASHER, FLAT, 2-1/4 X 2-1/4 X 3/16 WITH 13/16" HOLE DIA	2
2078067 LAMP, HIGH PRESSURE SODIUM 50W UNIVERSAL	883
2078068 LAMP, HIGH PRESSURE SODIUM 250W BASE DOW	1963
2078069 LAMP, HIGH PRESSURE SODIUM 400W UNIVERSA	1902
2078070 LAMP, HIGH PRESSURE SODIUM 70W UNIVERSAL	1892
2078071 LAMP, HIGH PRESSURE SODIUM 150W UNIVERSA	1433
2078072 LAMP, METAL HALIDE 1000W UNIVERSAL BURNI	1347
2109909 FLOODLIGHT, LED 45 SERIES	10
2109910 PHOTOCELL, 120V 2000W TORK 2101	2
2110121 FIELD CONTROLLER, CAPACITOR MODEL 2015	2
2110202 LAMP, METAL HALIDE 400W PULSE START	8
2110332 LAMP, FLUORESCENT DESK 2 PIN, 25W, 36"	5
2110787 LUMINAIRE, HPS 100W CO, MT, MAGNAPAK	1648
2110789 LIGHT, HANDHELD, LED, 220 LUMENS	13
2110983 PHOTO CONTROL LED USE ONLY, 1000W, 120V	14316
2111055 FLOODLIGHT, LED TRUNNION MOUNT 100-277V	3
2111093 BALLAST, FLUORESCENT ELECTRONIC 2 LAMP	3
2111108 LED, 103W COOPER NAVION RDWAY, GRAY	132
2111221 LED, 206W COOPER NAVION RDWAY, GRAY	66
2111224 LED, 309W COOPER NAVION A/LGTR, GRAY	59
2111227 LED, HOLOPHANE REPL DRIVER,67.4 AND 99.1	4
2111229 LED, 67W HLP SALEM PT, BLK	700
2111250 LED, 99W HLP SALEM PT, BLK	266
2111251 LED, 106W GE EVOLVE RDWAY TYPE II, GRAY	1
2111253 LED, 196W GE EVOLVE RDWAY TYPE II, GRAY	24
2111255 LED, 202W GE EVOLVE A/LGTR TYPE II, GRAY	28
2111257 LED, 202W GE EVOLVE A/LGTR TYPE III, GRA	11
2111358 LIGHT, LED EMERGENCY	4
2111359 LIGHT, LED EXIT WHITE WITH RED LETTERS	3
2111360 LIGHT, LED EXIT, EMERGENCY COMBINATION	2
2111812 LED, 103W COOPER RDWAY TYPE II, BLK	3
2111813 LED, 206W COOPER RDWAY TYPE II, BLK	3
2111815 LED COOPER, 4 SQ, POW DOOR REP. 206W BK	2
2112133 LAMP, LED INDICATOR FREEDOM 2100 MCC	19
2112923 40UF CAPACITOR FOR 100 WATT COBRA	220
2112986 LIGHT, INDICATING (RED) 24VDC	2
2113045 LIGHT, RED IND, CAT. NO. 10250T197LRP2A	1
2113046 LIGHT, GREEN IND, CAT.NO. 10250T197LGP2A	1
2113090 SIGN, STREET LIGHT SYMBOL, 48"X48"	1
2113187 LIGHT, HANDHELD,DUAL LIGHT W/ MAGNET	631
2113683 LIGHT, STREET COOPER LED FOR SUBSTATIONS	58
2113986 POLE, CONCRETE 45 FT TYPE IIISP	2
2114251 SWITCHGEAR, SUBMERSIBLE TYPE 9 AUTO	1
2114953 LED, 211W/480V GE EVL A/L TYPE III, BLK	38
2114955 LED, 152W GE EVOLVE A/LGTR TYPE III, BRN	6
2115050 LED, 56W COOPER NAVION RDWAY, GRAY	405
2115051 LED, 56W COOPER NAVION RDWAY, BLK	51
2115066 LED, 245W HLP MONGOOSE RDWAY, GRAY	18
2115067 LED, 60W HLP CLASSIC PT, BLK	193
2115068 LED, 328W HLP MONGOOSE RDWAY, GRAY	11
2115070 LED, 100W HLP CLASSIC PT, BLK	60
2115121 DOOR LOCK COMPLETE	3
2115217 LED, 240W ACP FLOOD, GRAY	3
2115219 LED, 236W HLP PREDATOR FLOOD, GRAY	63
2115230 LED, 354W HLP PREDATOR FLOOD, GRAY	624

2115237 LED, 107W COOPER NAVION RDWAY, GRAY	436
2115238 LED, 107W COOPER NAVION RDWAY, BLK	41
2115239 LED, 213W COOPER NAVION RDWAY, GRAY	460
2115240 LED, 315W COOPER NAV RDWY TYP IV WD, GRA	1255
2115246 LED, 157W COOPER NAVION RDWAY, GRAY	143
2115247 LED, 157W COOPER NAVION RDWAY, BLK	7
2115250 LED, 211W GE EVOLVE A/LGTR FWT IV, BRNZ	19
2115251 LED, 211W GE EVOLVE A/LGTR FWT IV, BLK	98
2115399 BULB, 130V BAC-50 H2 DRYER CNTRL PNL	3
2115484 LAMP, LED WHITE (SUBS. POWER)	14
2115552 LAMP ASSY, RED, LED 120VAC	2
2115868 LED, 213W COOPER NAVION RDWAY, BLK	16
2115974 LED, 152W GE EVOLVE A/LGTR TYPE III, BLK	42
2116035 LANTERN, GREEN, SOLAR MKR 1 THRU 15 ODD	2
2116036 LANTERN, RED, SOLAR MKR 2 THRU 18 EVEN	2
2116379 BRACKET, LED FLOOD, QUAD, GALV, 90 DEG.	4
2121785 HOUSE SIDE SHIELD	10
2123490 POLE, DUCTILE IRON 40 CLASS1, WT 1351	2
2124852 LIGHT, PILOT GREEN LED 120VAC	2
2125084 SLEEVE, CLEAR PROTECT-O F-40 LAMP T12	4
2125615 SHIELD, HOUSE SIDE SOLID 180 DEGREES	21
2125692 SIGN, EMERGENCY EXIT ECR-LED	10
2125853 LED, 100W GRANVILLE PT, TY II 480V 4K BL	54
2126309 LED, 84W EVOLVE, TYP II, 3K, GR	620
2126380 LED, 84W EVOLVE, TYP II, 4K, GR	88
2126381 LED, 330W EVOLVE TYPE IV, 3K, GR	63
2126382 LED, 330W EVOLVE TYPE IV, 4K, GR	301
2126383 LED, 330W EVOLVE TYP IV, 480V, 4K, GR	44
2126384 LED, 143W USSL EATON, TYP IV, 3K GR	12
2126385 LED, 143W USSL EATON, TYP IV, 4K GR	23
2126386 LED, 182W VERDEON, TYP IV, 3K, GR	493
2126387 LED, 182W VERDEON, TYP IV, 4K, GR	1161
2126388 LED, 225W GALLEON, TYP II, 3K, GR	87
2126389 LED, 225W GALLEON, TYP II, 4K, GR	68
2126390 LED, 225W GALLEON, TYP II, 4K, BLK	17
2126391 LED, 225W GALLEON, 480V, TYP II, 4K, BLK	4
2126392 LED, 247W VERDEON, TYP IV, 3K GR	253
2126393 LED, 247W VERDEON, TYP IV, 4K GR	352
2126394 LED, 255W FLOOD 6X6 W, 3K GR	5
2126395 LED, 255W FLOOD 6X6 W ,4K GR	355
2126396 LED, 333W GALLEON, TYP II, 3K, GR	17
2126397 LED, 333W GALLEON, TYP II, 4K, GR	13
2126398 LED, 26W GRNVIL PT, TYP III, 3K, BLK	163
2126399 LED, 26W GRNVIL PT, TYP III, 4K, BLK	69
2126400 LED, 28W, WATCH LIGHT, MULTI VOLT, 3K	2111
2126401 LED, 27W WATCH LIGHT, TYP V, 4K, GR	611
2126402 LED, 39W GRNVIL PT, TYP III, 3K, BLK	935
2126403 LED, 39W GRNVIL PT, TYP III, 4K, BLK	59
2126406 LED, 39W ENH GRNVL PT TYP III, 3K, BLK	276
2126407 LED, 39W ENH GRNVL PT TYP III, 4K, BLK	32
2126409 LED, 47W AUTOBAHN, TYP R2, 3K, GR	2187
2126410 LED, 47W AUTOBAHN, TYP R2, 4K, GR	1508
2126411 LED, 47W AUTOBAHN, TYP R2, 3K, BLK	34
2126412 LED, 47W AUTOBAHN, TYP R2, 4K, BLK	37

2126414 LED, 47W AUTOBAHN, 480V, TYP R2, 4K, BLK	7
2126415 LED, 60W GRNVIL PT, TYP III, 3K, BLK	48
2126416 LED, 60W GRNVIL PT, TYP III, 4K, BLK	46
2126417 LED, 60W GRNVIL PT, TY III, 480V 4K, BLK	7
2126418 LED, 60W ENH GRNVIL PT TYP III, 3K, BLK	5
2126419 LED, 60W ENH GRNVIL PT TYP III, 4K, BLK	17
2126420 LED, 55W UTILITY PT, TYP III, 3K, BLK	2541
2126421 LED, 55W UTILITY PT, TYP III, 4K, BLK	52
2126422 LED, 76W UTILITY PT, TYP III, 3K, BLK	633
2126423 LED, 76W UTILITY PT, TYP III, 4K, BLK	70
2126424 LED, 105W AUTOBAHN, TYP II, 3K, GR	2522
2126425 LED, 105W AUTOBAHN, TYP II, 4K, GR	613
2126426 LED, 105W AUTOBAHN, TYP II, 3K, BLK	27
2126427 LED, 105W AUTOBAHN, TYP II, 4K, BLK	46
2126428 LED, 105W AUTOBAHN, 480V TYP II, 4K, BLK	23
2126429 LED, 133W AUTOBAHN, TYP III, 3K, GR	283
2126430 LED, 133W AUTOBAHN, TYP III, 4K, GR	158
2126431 LED, 145W AUTOBAHN, TYP II, 3K, GR	1960
2126432 LED, 145W AUTOBAHN, TYP II, 4K, GR	861
2126433 LED, 145W AUTOBAHN, TYP II, 3K, BLK	93
2126434 LED, 145W AUTOBAHN, TYP II, 4K, BLK	481
2126435 LED, 145W AUTOBAHN, 480V, TY II, 4K, BLK	174
2126436 LED, 199W ACP FLOOD 6X6 W, TENON, 3K, GR	373
2126437 LED, 199W ACP FLOOD 6X6 W, TENON, 4K, GR	352
2126965 LAMP, FLUORESCENT U-SHAPED 2 PIN 32 WATT	7
2127280 POLE, WINSTON, ALUM, 16FT, DB, HH, BLK	1745
2127281 POLE, WATERSIDE, AL, 38.6FT, DB, HH, BLK	47
2127282 BRACKET, 12FT MAST ARM, BLK	1
2127283 BRACKET, 10FT MAST ARM, BLK	1
2127284 BRACKET, 8FT MAST ARM, BLK	1
2127285 BRACKET, 6FT MAST ARM, BLK	7
2127286 BRACKET, 4FT MAST ARM, BLK	45
2127287 BRACKET, BANNER ARM, SET OF 2, BLK	2
2127288 LED, 330W EVOLVE, TYP IV, 3K, BLK	11
2127289 LED, 330W EVOLVE, TYP IV, 4K, BLK	48
2127290 LED, 330W EVOLVE, TYP IV, 480V, 4K, BLK	11
2127440 LED, 182W VERDEON, TYP IV, 4K, BLK	100
2127441 LED, 247W VERDEON, TYP IV, 4K, BLK	418
2127442 LED, 182w VERDEON, 480v, TYP IV, 4K, GR	195
2127443 LED, 182w VERDEON, 480v, TYP IV, 4K, BLK	24
2127555 LED, 252W FLOOD, 6X6 W, 480V, 4K, GR	8
2127706 LAMP, WHITE LED 24V	6
2127811 LED, 145W AUTOBAHN, TYP IV, 4K, BLK	61
2127812 SHIELD HOUSE SIDE SOLID 180 DEGREE	22
2127814 SHIELD HOUSE SIDE SOLID 180 DEGREE	5
2127852 LED, 145W AUTOBAHN, 480V, TY IV, 4K, BLK	65
2127913 SHIELD HOUSE SIDE FIELD INSTALL	6
2127914 SHIELD TRESPASS FOR N3 AND N5 OPTICS	6
2127916 SHIELD HOUSE SIDE	11
2127917 SHIELD HOUSE SIDE	27
2127971 LED, 39W ENH GRNVL PT TYP III, 3K, WHT	4
2128175 LED, 550W, EATON FLOOD, NEMA2, 4K, BLK	6
2128413 LIGHT, LARGE UTILITY FLOOD 120V	4
2128414 LIGHT, LARGE UTILITY FLOOD 480V	6
2128495 LED, 30W LEXINGTON PT, TYP III, 3K, BLK	544

2128838	FIXTURE, LED LUMIN. VMV9L 4X HAZARDOUS	4
2128839	FIXTURE, LED LUMIN. VMV7L 4X HAZARDOUS	9
2128855	POLE, CONCRETE, SMALL CELL, TYPE IV-45	2
2128856	POLE, CONCRETE, SMALL CELL,TYPE IV-40	2
2128860	MOUNT, POLE STRAIGHT STANCHION 1-1/2"	5
2128861	MOUNT, POLE 25 DEGREE STANCHION 1-1/2"	3
2128862	MOUNT, PENDANT TOP HAT 3/4"	8
2128960	POLE, CONCRETE,SMALL CELL, CHANNELSIDE	6
2129226	LED, 47W, AUTOBAHN MICRO, TYP R2, 4K,GR	1122
2129227	LED, 47W, AUTOBAHN MICRO, TYP 2, 3K, BLK	36
2129228	LED, 47W, AUTOBAHN MICRO, TYP 2, 4K, BLK	2
2129229	LED, 47W, AUTOBAHN MIC, 480V, T2, 4K, BK	2
2129230	LED, 47W, AUTOBAHN MICRO, TYP R2, 3K, GR	15996
2129256	SHEILD, REFRACTOR, ACUITY, AUTOBAHN	1
2129257	SHEILD, TRESSPASS, ACUITY, AUTOBAHN	3
2129309	LED, 39W GRNVIL PT, TYP III, 3K, BLK INT	1002
2129312	LED, 39W GRNVIL PT, TYP III, 4K, BLK INT	3
2129313	LED, 39W ENH GRNVL PT T III, 3K, BLK INT	219
2129314	LED, 39W ENH GRNVL PT T III,4K, BLK INT	1
2129315	LED, 60W GRNVIL PT, T III, 3K, BLK INT	130
2129316	LED, 60W GRNVIL PT, T III, 4K, BLK INT	8
2129317	LED, 60W GRNVIL PT,TIII,480V 4K, BLK INT	1
2129318	LED, 60W ENH GRNVIL PT T III,3K, BLK INT	2
2129319	LED, 60W ENH GRNVIL PT T III,4K, BLK INT	1
2129321	LED, NLC-CN, MULTI-PT-GR (ACUITY)	9800
2129323	LED, NLC-CN, MULTI-GR (ACUITY)	200
2129325	LED, NLC-IP 7PIN, MULTI-GR	48181
2129326	LED, NLC-IP 7PIN, 480V-GR (CIMCON)	413
2129327	LED, FIELD SERVICE UNIT 5.0	8
2129329	LED, ACCESS POINT 5.0, CELLULAR	74
2129330	LED, 55W UTILITY PT, T III, 3K, BLK INT	3519
2129331	LED, 55W UTILITY PT, T III, 4K, BLK INT	1
2129357	LED, 76W UTILITY PT, T III, 3K, BLK INT	540
2129358	LED, 76W UTILITY PT, T III, 4K, BLK INT	1
2129359	LED, 26W GRNVIL PT, T III, 3K, BLK INT	130
2129387	LED, 327W EVOLVE T IV, 4K, BLK, INT, SLI	16
2129438	LED, 105W AUTOBAHN, TYP II, 3K, WH	1
2129439	LED, 105W AUTOBAHN, TYP II, 4K, WH	1
2129530	LED, CABLE, AP 4.5 BACK UP BATTERY 27IN	70
2129532	LED, CABLE, AP 4.5 3-PIN POWER, R/A	70
2129533	LED, BACKUP BATTERY, AP 4.5/5.0, 8 AH	70
2129535	LED, LIGHTNING ARRESTER, NF-NF	70
2129537	LED, TRANSAMERICA ANTENNA 900MHZ	70
2129767	LED, 84W EVOLVE TYPE II, 3K, BK	1
2129769	LED, 84W EVOLVE, TYP II, 4K, BK	1
2129980	LAMP, INCANDESCENT 75A 120V	244
2130030	LED, 305W EVOLVE TYPE IV, 3K, GR	213
2130031	LED, 305W Evolve Type IV, 4k, GR	39
2130032	LED, 305W Evolve Type IV, 480v, 4k GR	7
2130033	LED, 305W Evolve Type IV, 3k, BLK	83
2130034	LED, 305W Evolve Type IV, 4k, BLK	2
2130035	LED, 305W Evolve Type IV, 480v, 4k, BLK	2
2130385	LED, NLC-IP 7PIN, MULTI-BLK (SELC)	279
2130386	LED, NLC-IP 7PIN, MULTI-GR (CIMCON)	18000

2130387 LED, NLC-IP 7PIN, 480V-BLK (ACUITY)	1
2130400 LED, 182W ARCHEON, TYP IV, 4K, GR	40
2130401 LED, 182W ARCHEON, TYP IV, 3K, GR	2265
2130402 LED, 182W ARCHEON, TYP IV, 4K, BLK	1
2130403 LED, 182W ARCHEON, TYP IV, 3K, BLK	158
2130404 LED, 182W ARCHEON, 480V,TYP IV, 4K, GR	2
2130405 LED, 182W ARCHEON, 480V,TYP IV, 3K, GR	86
2130406 LED, 182W ARCHEON, 480V,TYP IV, 4K, BLK	2
2130407 LED, 182W ARCHEON, 480V,TYP IV, 3K, BLK	10
2130544 LED, SHIELD, HOUSE SIDE, ACUITY MICRO	9
2130573 CONNECTOR, URD, LIGHTING, 4 POSITION	92
2130574 CONNECTOR, URD, LIGHTING, 6 POSITION	87
2130621 FIXTURE, LED CHAMP PRO PVM7L/UNV1 NON HZ	12
2130805 LAMP, LED A19 ROUGH SERVICE, 14W 80CRI	1344
2131163 LIGHT, STRING, 50' , WITH CONNECTORS	3
2131164 ARCH, LIGHTING, YBOR CITY	2
2131215 SHIELD,LIGHTING,LED,ARCHEON	3
2131290 POLE, STANDARD, 16 FT, PT, DB, FIBERGLAS	2

2131452	POLE, AL, 5G SMALL CELL, 3 CHAMBER.1	2
2131460	POLE, AL, 5G SMALL CELL, 3 CHAMBER.2	2
T-SF1	LED, 182W ARCHEON w CAMERA	
T-SF2	LED, 143W USSL EATON w CAMERA, 3K, GR	
T- SF3	LED, 225W GALLEON w CAMERA, 3K, GR	
T- SF4	LED, 157W COOPER NAVION w CAMERA	
T- SCP6	POLE, WOOD, 40FT CLASS 2, CCA TREATED	4
T-SCP7	POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	6

336.42  
320.96  
321.92  
311.6  
321.08  
311.6  
320.95  
311.6  
320.95  
34.11  
27.25  
48.01  
685.66  
3.56  
261.49  
7213.45  
39.12  
197.28

sa-SF1

5498	2005675 DP	SCP4	
5498	2005675 DP	SCP5	
3271.92	2130401	SF1	321.92
3301.48	2126426 <-- not a U	SF2	2126384 or 2126285 351.48
3614.7	2126388	SF3	664.7
3430.72	2126426 <-- not a N	SF4	2115246? 480.72
272.68	2002857	SCP6	
323.52	2002858	SCP7	

Source 2021\_0207\_LightInventory\_COSS.xlsx

Includes:

InSvc, OOS, Proposed. NOT Proposed Removed

Fixture Dist on Poles

FACT\_ST# (All)  
RATE (Multiple Items)

Rate	COBRAN EMA	SHOEBO X	FLOOD	AREA LIGHTER	ROADWAY	PT	Grand Total
422						128	128
425	35		4		16		55
523	2	24		4	85	44	159
525	3				1	3507	3511
580						153	153
581				1		47	48
582	2			6	19	17552	17579
583	1	6	4	8	15	508	542
584		5		17		131	153
585						77	77
586	8	1		3	7	18368	18387
587						1	1
588	914	2403	435	5571	6175	11	15509
589	2	89	1	70	53		215
590						56	56
591	1	341	56	700	474	1	1573
592			2	3	1	812	818
593						4435	4435
594	16	318	349	505	666		1854
595		151	47	259	151		608
596	51	282	393	742	1442	1	2911
597	139	290	1307	427	451	2	2616
599					68		68
607	14499	2	43	322	17089	16	31971
612	2213	11	47	340	2627	2	5240
614	1923	18	154	1152	1560		4807
615	1033		1	5	1504		2543
616	150	5	4	226	411	2	798
622	58		31	261	4		354
623	1			41	108		150
624	4		4	6	4	4239	4257
626	14476	5	242	144	10133	9	25009
627	9079	51	2312	3155	9208	3	23808
637	1844	46	369	1282	2278		5819
641	8	9	5	14	15		51
na	24783	101	1541	977	6739	37	34238
Ndist	14451	85	111	1484	31390	24	47545
Ndist?	4	134	1722	743	7162		9765
TEC	221		84	87	136		528
(blank)	2						2



Source 2021\_02\_Span Length Calc for Poles.xlsx

Avg Span Length

Rate Code	OH	UG	Avg Span Length			
422	NA	65	65			
425	117.03	NA	117			
523	NA	95.54	96			
525	NA	95.64	96			
580	NA	94.12	94			
581	NA	94.12	94			
582	NA	95.54	96			
583	NA	95.64	96			
584	NA	94.12	94			
585	NA	95.64	96			
586	NA	95.64	96			
587	NA	94.12	94			
588	NA	142.04	142			
589	NA	130.61	131			
590	NA	95.64	96			
591	NA	145.65	146			
592	NA	95.64	96			
593	NA	95.64	96			
594	138.04	NA	138			
595	NA	145.65	146			
596	NA	142.04	142			
597	138.05	NA	138			
599	NA	95.64	96			
607	NA	127.91	128			
612	NA	136.85	137			
614	NA	172.82	173			
615	NA	127.91	128			
616	NA	166.15	166			
622	NA	169.56	170			
623	NA	118.93	119			
624	NA	65.00	65			
626	112.49	NA	112			
627	138.54	NA	139			
637	131.47	NA	131			
641	NA	140.89	141			
596	2002901	2128855	SCP1	NA	142.0428	142
596	2002901	2128856	SCP2	NA	142.0428	142
591	2002851	2128960	SCP3	NA	145.6535	146
622	2005675	2131452	SCP4	NA	169.562	170
622	2005675	2131460	SCP5	NA	169.562	170

597	2002857 new	<b>SCP6</b>	138.0457	NA	138
597	2002858 new	<b>SCP7</b>	138.0457	NA	138

Source 2020\_1110\_PVT\_All F&P Materials\_DC.xlsx

Fixture Ty	Category	C_W	SAP TSN
PT	Fixture	PTPole	2003261
			2004166
			2005397
	HHChoice	PTPole	2004655
	PCChoice	PTPole	2129326
non-PT	BracketChoice	All	2000943
			2003961
			2004166
			2004381
			2004465
			2007288
	Feed	All	2003261
			2003523
			2004166
			2005397
			2077753
			2077755
			2077783
			2077835
			2077930
			2077844
		WoodPole	2077835
			2077930
	Fixture	All	2078006
		WoodPole	2078008
	HHChoice	All	2004655
	PCChoice	All	2129326
	PoleChoice	ConcPole	2002816
			2002817
	Bracket	All	2005330
			2005372
			2127287
			Various10
			Various12
			Various4
			Various6
			Various8
			VariousSB_1
			VariousSB_2
			VariousSB_3
			VariousSB_4
			VariousSB_P
			2127283
			2127284
			2127286
			2127285
			2127282

		ConcPole	2005370
			2003691
			2003692
	PoleInstall	WoodPole	2005373
		UG	2004393
			2004394
			2004395
			2004405
			2004412
			2004413
			2004414
			2004492
			2004507
			2004510
			2004511
			2004519
			2004521
			2004523
			2004524
			2007227
			2007414
All	PoleInstall	UG	2004166
			2004165
			2004361
			2004389
			2004410
			2004488
			2004489
			2004517

Item Description	Total
FUSE, CARTRIDGE NON-RENEW 30A 600V 1-1/2 X 13/3	2
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	40
CONNECTOR, FUSED WATERPROOF URD #6 LINE #10 LOAD RAN	2
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT (MARKED ELEC	1
LED, NLC-IP 7PIN, 480V-GR (CIMCON)	1
ANCHOR, MASONRY, TAPCON SCREW, HEX HEAD,	24
SCREW, LAG, 2" X 3/8",MECHANICALLY PLATE	8
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600	60
STRAP, GALV 1 IN 1 HOLE	4
CONDUIT, PVC, FLEXIBLE, 1 INCH X 100 FT	8
COMPOUND, DUCT SEALING 1 LB PACKAGE	1
FUSE, CARTRIDGE NON-RENEW 30A 600V 1-1/2 X 13/3	2
COVER, SNAP-ON SERVICE ENTRANCE SLEEVE 5/8 DIE2 IN.	2
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,	3
CONNECTOR, FUSED WATERPROOF URD #6 LINE #10 LOAD RAN	4
BOLT, MACHINE 5/8" X 8", GALV.	2
BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	2
NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	1
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR	2
CONNECTOR, VICE CU #4 STR	1
CONNECTOR, COMPRESSION H-BLOCK AL #4 STR ACSR #4	3
CONNECTOR, COMPRESSION H-BLOCK AL #6 STR ACSR #10	2
CONNECTOR, VICE CU #4 STR	1
WASHER, FLAT GALV 2 X 2 X 1/8 HOLE 11/16	2
WASHER, FLAT, 2-1/4 X 2-1/4 X 3/16 WITH 13/16" HOLE DIA	2
HANDHOLE, ROUND 9X10X13 W/PENTA HD BOLT (MARKED ELEC	1
LED, NLC-IP 7PIN, 480V-GR (CIMCON)	1
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIPPED GALV TYPE	1
POLE CAP, WITH 2-3/8" O.D. TENON HOT DIPPED GALV TYPE I	1
BRACKET 20 IN STREET LIGHT GALV	1
BRACKET 15 FT STREET LIGHT ALUM TAPER TR	1
BRACKET BANNER ARM ,SET OF 2, BLK	1
BRACKET 10 FT Various	1
BRACKET 12 FT Various	1
BRACKET 4 FT Various	1
BRACKET 6 FT Various	1
BRACKET 8 FT Various	1
BRACKET SHOEBOX SINGLE MOUNT Various	1
BRACKET SHOEBOX DUAL MOUNT Various	1
BRACKET SHOEBOX TRIPLE MOUNT Various	1
BRACKET SHOEBOX QUAD MOUNT Various	1
BRACKET SHOEBOX TWIN PARALLEL MOUNT Various	1
BRACKET, 10FT MAST ARM, BLK	1
BRACKET, 8FT MAST ARM, BLK	1
BRACKET 4 FT MAST ARM, BLK	1
BRACKET 6 FT MAST ARM, BLK	1
BRACKET 12 FT MAST ARM, BLK	1

BRACKET 12 FT STREET LIGHT ALUM TAPER TR  
BRACKET, DUAL CUTOUT ARRESTER & POTHEAD DWG. Q5443 SHT. 1  
BRACKET, TRIMOUNT, ARSTR & POTHEAD, TEMS 2.02 DWG.5443 1  
BRACKET, STREETLIGHT, GALVANIZED, 9"RADIUS 1  
COUPLING, GALV 2 IN  
ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS  
ELBOW, GALV 2 INCH 90 DEG THD 15" MIN RADIUS  
WEATHERHEAD, GALV 2 IN  
COUPLING, GALV 3 IN  
ELBOW, GALV 3 IN 45 DEG THD 13 IN RAD  
ELBOW, GALV 3 IN 90 DEG THD  
ADAPTER, CONDUIT PVC FEMALE 2 IN SCH 40 SOC X  
COUPLING, PVC 2 IN SCH 40 TEMS  
ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH 40 TEMS  
ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-1/2 IN  
ADAPTER, PVC FEMALE 3 IN  
COUPLING, PVC 3 IN SCH 40 TEMS  
ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40 TEMS  
ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40 TEMS  
CEMENT, PVC CLEAR FAST DRY QUART W/DAUBER  
TAPE, PULLING, POLYSTER, RATED AT 1250#, W/PRINTED SEQ.  
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 10AWG,  
CABLE, UNDERGROUND, COPPER, TRIPLEX, 600V, 2/C, 6 AWG,  
CABLE, OVERHEAD SERVICE DROP, AAC-TRIPLEX, 4 AWG  
CONDUIT, GALVANIZED 2 IN 10 FT WITH COUPLING  
CONDUIT, GALVANIZED 3 IN 10 FT WITH COUPLING  
CONDUIT, PVC 2 IN 20 FT BELL END  
CONDUIT, PVC SCH 40 2 IN 10 FT W/ COUPLING TEMS  
CONDUIT, PVC P & C 3 IN 20 FT