

TOWN OF WASHINGTON GROVE STREETLIGHTS 1-May-2020

<u>*** Previous Incandescent</u>	Number of Items	Kilowatts per Lamp	Total KW	Kilowatt Hours	Service Charge per Lamp	Total Service Charge	Distribution Charge	Generation Charge	Total
1000 Lumen Inc OH WOG	48	0.092	4.416	1,384	5.28	253.44	73.72	66.39	393.56
2500 Lumen Inc OH WOG	1	0.189	0.189	59	5.28	5.28	3.16	2.84	11.28
2500 Lumen Inc OH WG	20	0.189	3.780	1,185	10.78	215.60	63.11	56.83	335.54
4000 Lumen Inc OH WOG	3	0.295	0.885	277	5.28	15.84	14.77	13.31	43.92
4000 Lumen Inc OH WG	20	0.295	5.900	1,850	10.78	215.60	98.50	88.70	402.80
100 Watt MV OH	3	0.130	0.390	122	4.18	12.54	6.51	5.86	24.91
175 Watt MV OH	1	0.210	0.210	66	4.20	4.20	3.51	3.16	10.86
70 Watt HPS OH	5	0.085	0.425	133	5.66	28.30	7.10	6.39	41.78
2500 Lumen Inc UG WG	1	0.189	0.189	59	9.46	9.46	3.16	2.84	15.46
70 Watt HPS UG	5	0.085	0.425	133	4.11	20.55	7.10	6.39	34.03
C&P Poles	4	0.000	0.000	0	0.15	0.60	0.00	0	0.60
Monthly Totals	111		16.809	5,270		781.41	280.62	252.72	1,314.75
									x 12
							Annual Estimated Total		18,784.20

<u>*** Current Induction Bulbs</u>	Number of Items	Kilowatts per Lamp	Total KW	Kilowatt Hours	Monthly Charges per Lamp	Total Lamp Charges	Electric Delivery Charges	Electric Supply Charges	Total
55 (23) Watt Induction	93	0.055	5.115	1,604	4.72	438.96	85.39	76.90	601.26
100 Watt HPS	1	0.118	0.118	37	6.81	6.81	1.97	1.77	10.55
70 Watt HPS OH	8	0.085	0.680	213	6.32	50.56	11.35	10.22	72.14
70 Watt HPS UG	5	0.085	0.425	133	4.08	20.40	7.10	6.39	33.88
C&P Poles	4	0.000	0.000	0	0.17	0.68	-11.29	0	-10.61
Monthly Totals	111		6.338	1,987		517.41	105.81	95.29	718.51
									x 12
							Annual Estimated Total		8,622.12

<u>*** Proposed LED Bulbs</u>	Number of Items	Kilowatts per Lamp	Total KW	Kilowatt Hours	Monthly Charges per Lamp	Total Lamp Charges	Electric Delivery Charges	Electric Supply Charges	Total
50 (17.5) Watt LED	93	0.050	4.650	1,458	1.42	132.06	77.63	69.91	279.60
100 Watt HPS	1	0.118	0.118	37	6.81	6.81	1.97	1.77	10.55
70 Watt HPS OH	8	0.085	0.680	213	6.32	50.56	11.35	10.22	72.14
70 Watt HPS UG	5	0.085	0.425	133	4.08	20.40	7.10	6.39	33.88
C&P Poles	4	0.000	0.000	0	0.17	0.68	0.00	0	0.68
Monthly Totals	111		5.873	1,841		210.51	109.34	88.30	408.15
									x 12
							Annual Estimated Total		4,897.75

Night Time Hours 313.51
 Delivery Rate 0.0532511
 Generation (Supply) Rate 0.0479567

Notes:
 "Inc" = Incandescent; "MV" = Mercury Vapor; "HPS" = High Pressure Sodium
 "OH" = Overhead; "UG" = Underground
 "WOG" = Without Globe; "WG" = With Globe
 Current Induction bulbs are 23-watt; must use 55-watts as per Pepco November 8, 2011 letter of agreement
 Adjustment in Current Delivery Charge per kWh (for C&P Poles) to match Pepco Street Lighting bill totals
 Proposed LED bulbs are 17.5-watt, but 50-watt shown as per PSC-approved schedule June 22, 2018