

Appendix A

Operational Cost/LED Savings Analysis



Town of Henniker LED Street Lighting Conversion Proposal

Updated: April 19, 2018

Ledger: HENNIKER, NH District: 05 Town: 00 Ledger #: 0001010-01 HENNIKER (TOWN OF) - EOL

MUNICIPAL STREET LIGHTING SUMMARY					CURRENT LIGHTING (annual)				SMART READY LED (annual)				PA C E	
Current Lighting Description	Rated Watts	Size Code	Rate Class	Fixture Qty	Existing Rated Watts	Annual Cost Per Fixture	Total Annual Cost	Total kWh Consumed	LED Rated Watts	Models	Annual Cost Per Fixture	Total Annual Cost		Total kWh Consumed
				79										
150HPS COBRA	190	1E3	82	49	190	\$226.47	\$11,097	40,452	80	Affinity S801-80W-30K-TX-10-GR-M	\$127.88	\$6,266	17,052	\$
250HPS COBRA	295	153	82	27	295	\$281.29	\$7,595	34,608	100	Affinity S801-100W-30K-TX-10-GR-M	\$149.68	\$4,041	11,732	\$
50HPS SUBURBAN	65	48	82	1	65	\$129.02	\$129	282	30	Affinity YLS-30W-30K	\$73.38	\$73	130	\$
100HPS SUBURBAN	130	49	82	1	130	\$184.67	\$185	565	50	Affinity YLS-50W-30K	\$73.38	\$73	130	\$
175MTH FLOOD	205	1E3	82	1	205	\$254.17	\$254	891	80	Affinity FL2-80W-30K	\$127.88	\$128	348	\$
				79			\$19,280	76,798				\$10,562	29,372	\$2
										Annual Savings		(\$8,678)	(47,428)	
												-45.1%	-61.6%	
										Annual CO ² Abatement (tons)		(400.5)		

Figure 1: Affinity Operational Cost/LED Savings Analysis



Town of Henniker LED Lighting Conversion Analysis

Existing Lighting Description	Existing Rated Watts	Existing Size Code	Existing Rate Class	Existing Fixture Quantity	Existing Annual Cost Per Fixture	Existing Total Annual Cost	Existing Total kWh Consumed	EVERSOURCE Recommended LED Rated Watts	EVERSOURCE Incentive Program Recommended LED Fixture	Annual Cost Per LED Fixture	Total Annual LED Cost	LED Total kWh Consumed	
50HPS SUBURBAN	65	46	82	1	\$ 132.12	\$ 132.12	282	30	GLS GLU-AL-30-SF-30K DLC	\$ 73.38	\$ 73.38	131	
100HPS SUBURBAN	130	49	82	1	\$ 184.67	\$ 184.67	565	50	GLS GLU-AL-50-SF-30K DLC	\$ 95.20	\$ 95.20	218	
175MTH FLOOD	205	166	82	1	\$ 202.17	\$ 202.17	891	80	GLS GLU-AL-80-SF-30K DLC	\$ 127.88	\$ 127.88	348	
250HPS COBRA	295	153	82	27	\$ 281.29	\$ 7,594.83	34,608	100	GLS GLU-AL-100-SF-30K DLC	\$ 149.68	\$ 4,041.36	11,745	
150HPS COBRA	190	188	82	49	\$ 226.47	\$ 11,097.03	40,452	80	GLS GLU-AL-80-SF-30K DLC	\$ 127.88	\$ 6,266.12	17,052	
						\$ 19,210.82	76,798						

Number of fixtures	Current Lumens	Current Watts	LED Watts	LED Fixture Lumens	Unit Price Fixture	Install Price Fixture	Total
#27	30,000	295	108	12,757	\$227.50	\$45	\$7,339.50
#49	16,000	190	72	8,505	\$199.16	\$45	\$11,963.84
#1	13,500	150	54	6,001	\$179.64	\$45	\$224.64
#1	9,500	130	45	5,255	\$162.22	\$45	\$207.22
#1	4,000	65	25	3,073	\$155.55	\$45	\$200.55
FIXTURES AND INSTALLATION TOTAL COST:							\$19,935.75
RECYCLING CHARGES							\$300.00
TOTAL PROJECT COST BEFORE \$7,900 REBATE FROM EVERSOURCE							\$20,235.75

Subcontractors (if any):

PEABODY'S ELECTRIC, CLAREMONT, NH

Additional information: _____

References (provide at least 3):

Figure 3: Efficient LED Operational Cost/LED Savings Analysis

***note: Efficient LED failed to provide Operational Cost/Led Savings calculations as required in Henniker Streetlight Conversion RFP 2018-05: Scope of Work Section 1-D Project plan and expectations.**