Summary Energy Performance Report

Facilities included: Pequannock BOE Group
Number of facilities: 5

	Year ending 9/2009
Total Floorspace (sq. ft.)	346,951
Average Rating	9
Number of Facilities with a Rating	5
Number of Non-ratable Facilities*	0
Total Site Energy Use (kBtu)	36,866,596
Total Weather Normalized Source Energy Use (kBtu)	51,946,937
Average Weather Normalized Source Energy Intensity (kBtu/Sq. Ft.)	149.7
Average Site Energy Intensity (kBtu/Sq. Ft.)	106.3
Total Site Electric Use (kWh)	2,069,604
Total Site Natural Gas Use (Therms)	298,051
Average Actual Annual Source Energy Intensity (kBtu/Sq. Ft.)	157.9

*Non-ratable buildings are defined as buildings that currently are ineligible to receive the ENERGY STAR rating due to its operating characterisitcs and/or building type.

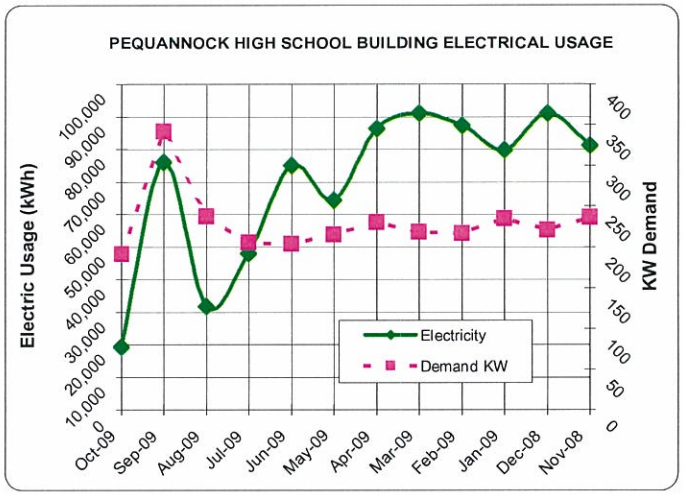
Summary Energy Performance Report

Facilities included: Pequannock BOE Group
Located in:
Date Generated: 5/20/10

Facility Name	Facility Address	Year ending 9/2009 Facility Floorspace	Year ending 9/2009 Rating	Year ending 9/2009 Average Site Energy Intensity (kBtu/Sq. Ft.)	Year ending 9/2009 Average Weather Normalized Source Energy Intensity (kBtu/Sq. Ft.)	Year ending 9/2009 Site Electric Use (kWh)	Year ending 9/2009 Site Natural Gas Use (Therms)
Pequannock BOE - High School	85 Sunset Road Pompton Plains, NJ 07444	137355	12	105.4	150.8	841,606	115,983
Pequannock BOE - Hillview School	206 Boulevard Pompton Plains, NJ 07444	44988	12	82.3	121	235,648	28,991
Pequannock BOE - Middle School	493 Newark Pompton Turnpike Pompton Plains, NJ 07444	84200	8	105.9	147.3	491,352	72,365
Pequannock BOE - North Boulevard School	363 Boulevard Pompton Plains, NJ 07444	46908	1	141.2	182.1	268,346	57,070
Pequannock BOE - S. J. Gerace School	59 Boulevard Pompton Plains, NJ 07444	33500	7	94.3	144.7	232,653	23,641

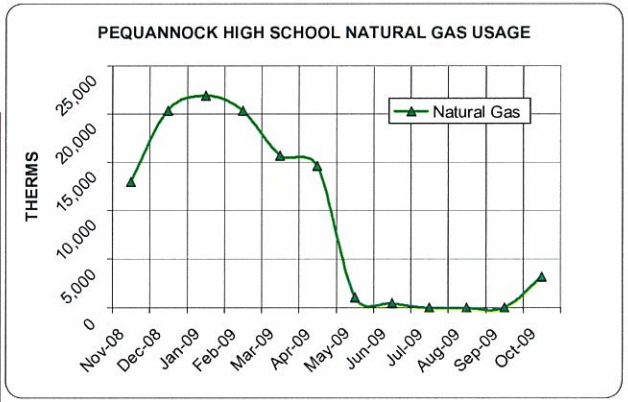
Facility Name Pequannock High School
Company JCP&L
Account# 10 0006 3830-02
Meter# G28891355, G21188853
Tariff/Rate General Service Secondary 3 Phase

Energy Type	Energy Unit	Start Date	End Date	Demand KW	KWH	Cost	$/kWh or Therms
Electricity	kWh	9/9/2009	10/9/2009	190.9	19,200	$4,954.51	$0.26
Electricity	kWh	8/11/2009	9/9/2009	341.6	76,000	$12,735.09	$0.17
Electricity	kWh	7/10/2009	8/11/2009	237.6	31,680	$5,108.53	$0.16
Electricity	kWh	6/11/2009	7/10/2009	205.1	48,000	$7,962.82	$0.17
Electricity	kWh	5/9/2009	6/10/2009	203.5	75,040	$11,636.01	$0.16
Electricity	kWh	4/8/2009	5/9/2009	215.2	64,320	$10,152.52	$0.16
Electricity	kWh	3/8/2009	4/7/2009	230.1	86,240	$13,678.90	$0.16
Electricity	kWh	2/8/2009	3/7/2009	218.9	91,040	$14,527.31	$0.16
Electricity	kWh	1/8/2009	2/7/2009	217.4	87,360	$14,093.32	$0.16
Electricity	kWh	12/8/2008	1/7/2009	235.4	79,840	$13,054.17	$0.16
Electricity	kWh	11/6/2008	12/7/2008	221.3	91,040	$14,064.80	$0.15
Electricity	kWh	10/8/2008	11/6/2008	236.5	81,280	$12,619.89	$0.16
		TOTALS/AVERAGE		229.5	831,040	$134,587.87	$0.162



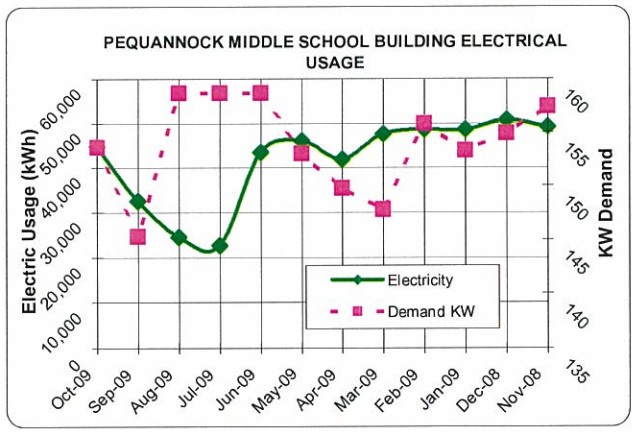
Facility Name Pequannock High School
Company PSE&G HESS
Account# 31 832 409-12 394898 / 394989
Meter# 2348975
Tariff/Rate LVG

Energy Type	Energy Unit	Start Date	End Date	Demand	Therms	Delivery Cost	Supplier Cost	$/ Therms
Natural Gas	therms	9/26/2009	10/27/2009	NA	3,160	$378.38	$3,848.55	$1.34
Natural Gas	therms	8/26/2009	9/26/2009	NA	14	$93.31	$6.23	$7.11
Natural Gas	therms	7/27/2009	8/25/2009	NA	5	$94.35		$20.12
Natural Gas	therms	6/24/2009	7/27/2009	NA	4	$94.20		$23.55
Natural Gas	therms	5/26/2009	6/24/2009	NA	440	$145.10	$526.59	$1.53
Natural Gas	therms	4/22/2009	5/26/2009	NA	1,062	$215.81	$1,271.68	$1.40
Natural Gas	therms	3/26/2009	4/22/2009	NA	14,557	$1,475.24	$17,430.01	$1.30
Natural Gas	therms	2/26/2009	3/25/2009	781.2	15,658	$5,821.16	$18,747.91	$1.57
Natural Gas	therms	1/26/2009	2/25/2009	781.2	20,348	$6,709.45	$24,363.15	$1.53
Natural Gas	therms	12/24/2008	1/25/2009	781.2	21,873	$6,996.15	$26,188.60	$1.52
Natural Gas	therms	11/25/2008	12/24/2008	637.7	20,305	$6,362.28	$24,312.26	$1.51
Natural Gas	therms	10/27/2008	11/25/2008	637.7	12,961	$4,734.67	$15,547.12	$1.56
		TOTALS/AVERAGE		723.8	110,387	$33,120.10	$132,242.10	$1.498



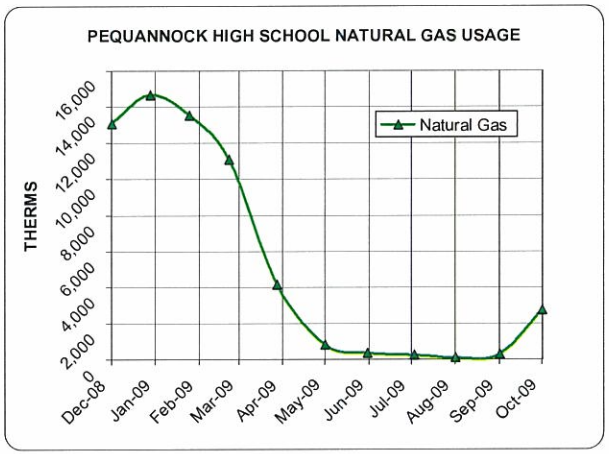
Facility Name Pequannock Middle School
Company JCP&L
Account# 10 0007 7329-91
Meter# G2116276
Tariff/Rate General Service Secondary 3 Phase

Energy Type	Energy Unit	Start Date	End Date	Demand KW	KWH	Cost	$/kWh or Therms
Electricity	kWh	9/23/2009	10/22/2009	153.6	44,800	$7,365.49	$0.16
Electricity	kWh	8/21/2009	9/23/2009	145.3	32,600	$5,858.73	$0.18
Electricity	kWh	7/22/2009	8/21/2009	158.7	24,600	$4,301.85	$0.17
Electricity	kWh	6/22/2009	7/22/2009	158.7	22,680	$4,043.80	$0.18
Electricity	kWh	5/22/2009	6/22/2009	158.7	43,520	$7,303.92	$0.17
Electricity	kWh	4/20/2009	5/22/2009	153.0	46,080	$7,540.76	$0.16
Electricity	kWh	3/20/2009	4/20/2009	149.8	41,920	$7,168.11	$0.17
Electricity	kWh	2/19/2009	3/20/2009	147.8	47,680	$8,027.56	$0.17
Electricity	kWh	1/21/2009	2/19/2009	155.8	48,640	$8,348.63	$0.17
Electricity	kWh	12/19/2008	1/21/2009	153.3	48,640	$8,311.95	$0.17
Electricity	kWh	11/19/2008	12/18/2008	154.9	50,880	$8,463.00	$0.17
Electricity	kWh	10/18/2008	11/18/2008	157.4	49,280	$8,025.23	$0.16
		TOTALS/AVERAGE		153.9	501,320	$84,759.03	$0.169



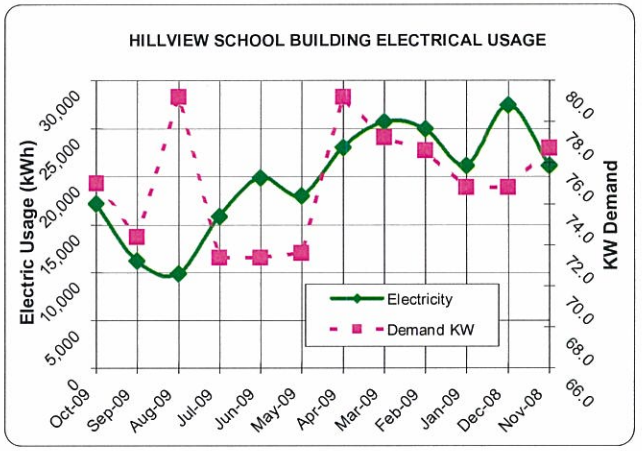
Facility Name Pequannock Middle School
Company PSE&G HESS
Account# 31 839 036-52 394898 / 394987
Meter# 2415347
Tariff/Rate LVG

Energy Type	Energy Unit	Start Date	End Date	Demand	Therms	Delivery Cost	Supplier Cost	$/ Therms
Natural Gas	therms	9/26/2009	10/25/2009	NA	2,715	$341.21	$2,868.30	$1.18
Natural Gas	therms	8/26/2009	9/25/2009	NA	269	$120.35	$437.85	$2.08
Natural Gas	therms	7/27/2009	8/25/2009	NA	120	$108.33	$144.04	$4.55
Natural Gas	therms	6/24/2009	7/27/2009	NA	239	$121.58	$285.68	$1.70
Natural Gas	therms	5/26/2009	6/24/2009	NA	359	$135.65	$429.72	$1.57
Natural Gas	therms	4/21/2009	5/25/2009	NA	810	$187.81	$970.32	$1.43
Natural Gas	therms	3/18/2009	4/21/2009	NA	4,145	$502.11	$4,963.17	$1.32
Natural Gas	therms	2/18/2009	3/18/2009	523.4	11,053	$4,027.99	$13,234.09	$1.56
Natural Gas	therms	1/21/2009	2/18/2009	523.4	13,516	$4,493.91	$16,183.23	$1.53
Natural Gas	therms	12/26/2008	1/21/2009	523.4	14,656	$4,708.45	$17,548.19	$1.52
Natural Gas	therms	11/26/2008	12/25/2008	471.3	13,040	$4,184.92	$15,612.70	$1.52
Natural Gas	therms	10/26/2008	11/25/2008	471.3	8,749	$3,358.84	$10,494.61	$1.58
		TOTALS/AVERAGE		502.56	69,671	$22,291.15	$83,171.90	$1.514



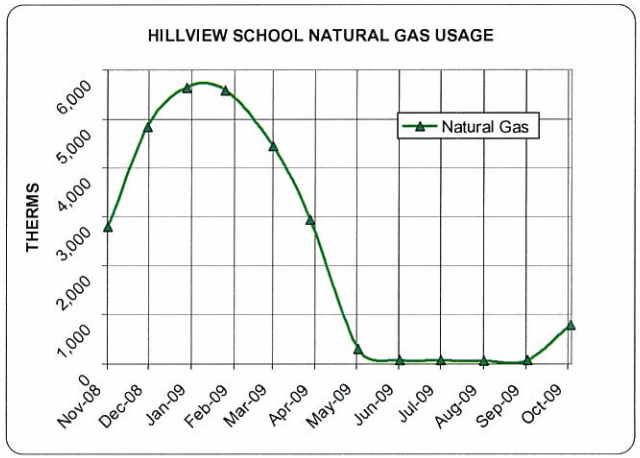
Facility Name Hillview School
Company JCP&L
Account# 10 0006 1311-12
Meter# G21010467
Tariff/Rate General Service Secondary 3 Phase

Energy Type	Energy Unit	Start Date	End Date	Demand KW	KWH	Cost	$/kWh or Therms
Electricity	kWh	9/9/2009	10/7/2009	75.0	17,200	$2,958.79	$0.17
Electricity	kWh	8/10/2009	9/9/2009	72.4	11,200	$2,160.18	$0.19
Electricity	kWh	7/11/2009	8/10/2009	79.2	9,840	$1,761.21	$0.18
Electricity	kWh	6/8/2009	7/11/2009	71.4	15,840	$2,564.43	$0.16
Electricity	kWh	5/8/2009	6/7/2009	71.4	19,840	$3,331.84	$0.17
Electricity	kWh	4/8/2009	5/7/2009	71.6	18,000	$3,046.03	$0.17
Electricity	kWh	3/10/2009	4/7/2009	79.2	23,040	$3,852.50	$0.17
Electricity	kWh	2/8/2009	3/10/2009	77.2	25,680	$4,344.43	$0.17
Electricity	kWh	1/8/2009	2/7/2009	76.6	24,960	$4,258.80	$0.17
Electricity	kWh	12/10/2008	1/8/2009	74.8	21,120	$3,680.49	$0.17
Electricity	kWh	11/8/2008	12/10/2008	74.8	27,440	$4,425.25	$0.16
Electricity	kWh	10/8/2008	11/7/2008	76.7	21,120	$3,508.39	$0.17
		TOTALS/AVERAGE		75.0	235,280	$39,892.34	$0.170



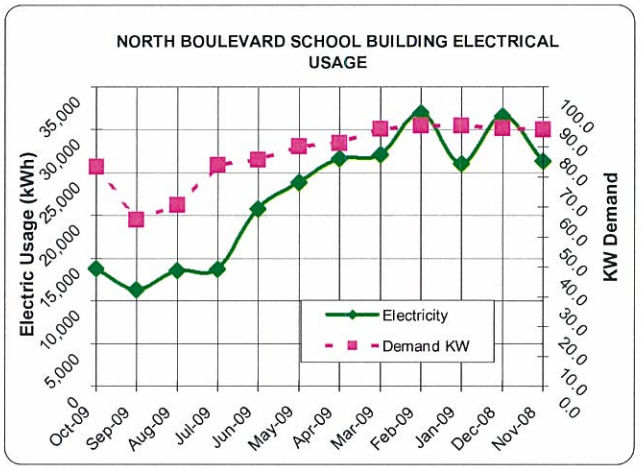
Facility Name Hillview School
Company PSE&G HESS
Account# 31 827 398-16 394898 / 394990
Meter# 2808828
Tariff/Rate LVG

Energy Type	Energy Unit	Start Date	End Date	Demand	Therms	Delivery Cost	Supplier Cost	$/ Therms
Natural Gas	therms	9/26/2009	10/27/2009	NA	789	$175.70	$960.82	$1.44
Natural Gas	therms	8/26/2009	9/26/2009	NA	75	$99.82	$89.80	$2.53
Natural Gas	therms	7/26/2009	8/25/2009	NA	59	$100.95	$71.12	$3.23
Natural Gas	therms	6/26/2009	7/25/2009	NA	75	$102.46	$89.56	$2.56
Natural Gas	therms	5/26/2009	6/25/2009	NA	78	$102.85	$93.63	$2.52
Natural Gas	therms	4/21/2009	5/26/2009	NA	302	$128.44	$360.88	$1.62
Natural Gas	therms	3/26/2009	4/21/2009	NA	2,932	$388.75	$3,510.93	$1.33
Natural Gas	therms	2/18/2009	3/25/2009	201.3	4,445	$1,657.08	$5,321.53	$1.57
Natural Gas	therms	1/21/2009	2/18/2009	201.3	5,579	$1,871.73	$6,679.78	$1.53
Natural Gas	therms	12/24/2008	1/21/2009	201.3	5,637	$1,882.09	$6,748.75	$1.53
Natural Gas	therms	11/26/2008	12/24/2008	166.7	4,834	$1,595.85	$5,787.77	$1.53
Natural Gas	therms	10/27/2008	11/25/2008	164.2	2,788	$1,197.09	$3,343.94	$1.63
		TOTALS/AVERAGE		186.96	27,593	$9,302.81	$33,058.51	$1.535



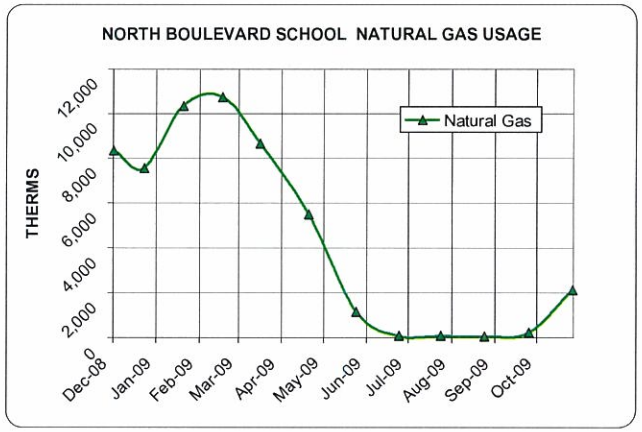
Facility Name Northern Boulevard School
Company JCP&L
Account# 10 0005 9301-26
Meter# G21188937
Tariff/Rate General Service Secondary 3 Phase

Energy Type	Energy Unit	Start Date	End Date	Demand KW	KWH	Cost	$/kWh or Therms
Electricity	kWh	9/10/2009	10/7/2009	73.4	13,760	$3,572.12	$0.26
Electricity	kWh	8/12/2009	9/10/2009	55.7	11,280	$1,924.26	$0.17
Electricity	kWh	7/14/2009	8/12/2009	60.7	13,520	$2,264.45	$0.17
Electricity	kWh	6/13/2009	7/14/2009	74.0	13,680	$2,376.80	$0.17
Electricity	kWh	5/10/2009	6/13/2009	75.7	20,800	$3,358.72	$0.16
Electricity	kWh	4/11/2009	5/10/2009	80.3	23,840	$3,766.18	$0.16
Electricity	kWh	3/11/2009	4/11/2009	81.2	26,640	$4,290.51	$0.16
Electricity	kWh	2/11/2009	3/11/2009	86.0	27,120	$4,454.49	$0.16
Electricity	kWh	1/11/2009	2/11/2009	87.1	32,000	$5,210.31	$0.16
Electricity	kWh	12/10/2008	1/11/2009	87.1	26,080	$4,330.70	$0.17
Electricity	kWh	11/6/2008	12/10/2008	86.2	31,600	$4,947.19	$0.16
Electricity	kWh	10/8/2008	11/6/2008	85.7	26,320	$4,145.03	$0.16
		TOTALS/AVERAGE		77.8	266,640	$44,640.76	$0.167



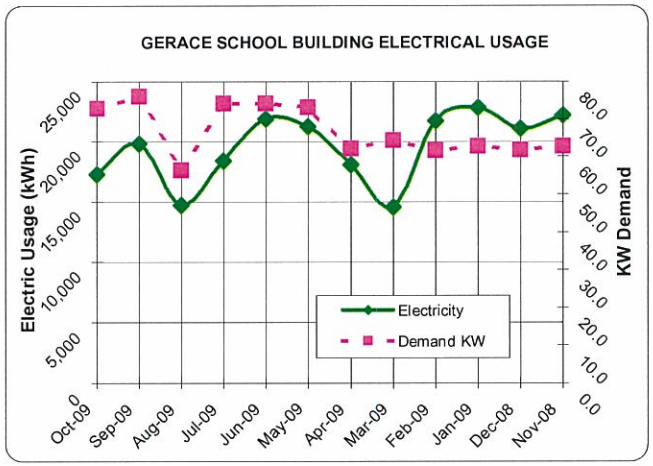
Facility Name Northern Boulevard School
Company PSE&G HESS
Account# 31 827 397-19 394898 / 394986
Meter# 3274100
Tariff/Rate LVG

Energy Type	Energy Unit	Start Date	End Date	Demand	Therms	Delivery Cost	Supplier Cost	$/ Therms
Natural Gas	therms	9/26/2009	10/27/2009	NA	2,120	$291.59	$2,581.81	$1.36
Natural Gas	therms	8/26/2009	9/26/2009	NA	228	$115.99	$90.16	$0.90
Natural Gas	therms	7/26/2009	8/25/2009	NA	57	$100.68	$68.61	$3.35
Natural Gas	therms	6/26/2009	7/25/2009	NA	78	$102.85	$93.63	$2.52
Natural Gas	therms	5/26/2009	6/25/2009	NA	84	$103.59	$101.17	$2.44
Natural Gas	therms	4/21/2009	5/25/2009	NA	1,129	$221.98	$1,351.67	$1.39
Natural Gas	therms	3/17/2009	4/21/2009	NA	5,486	$627.43	$6,568.79	$1.31
Natural Gas	therms	2/18/2009	3/17/2009	383.7	8,653	$3,086.59	$10,360.14	$1.55
Natural Gas	therms	1/21/2009	2/18/2009	383.7	10,744	$3,482.10	$12,863.51	$1.52
Natural Gas	therms	12/24/2008	1/21/2009	369.3	10,342	$3,354.60	$12,382.19	$1.52
Natural Gas	therms	12/2/2008	12/24/2008	342.3	7,531	$2,366.99	$9,017.21	$1.51
Natural Gas	therms	10/27/2008	12/2/2008	314.8	8,342	$2,735.16	$10,002.54	$1.53
		TOTALS/AVERAGE		358.76	54,794	$16,589.55	$65,481.43	$1.498



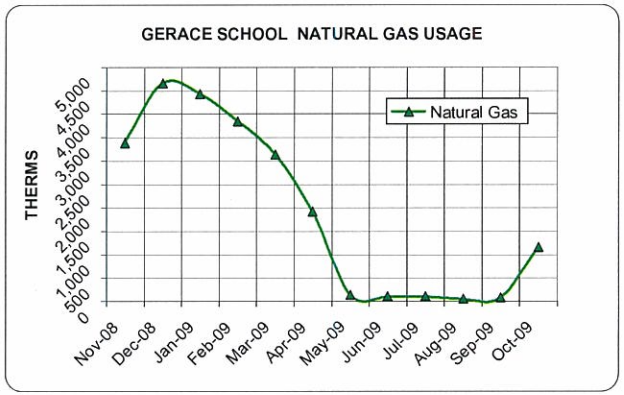
Facility Name Gerace School
Company JCP&L
Account# 10 0007 4099-54
Meter# G28125064
Tariff/Rate General Service Secondary 3 Phase

Energy Type	Energy Unit	Start Date	End Date	Demand KW	KWH	Cost	$/kWh or Therms
Electricity	kWh	9/22/2009	10/22/2009	72.8	17,280	$2,954.61	$0.17
Electricity	kWh	8/21/2009	9/22/2009	76.0	19,840	$3,325.95	$0.17
Electricity	kWh	7/23/2009	8/21/2009	56.3	14,720	$2,492.21	$0.17
Electricity	kWh	6/19/2009	7/22/2009	74.2	18,400	$3,115.95	$0.17
Electricity	kWh	5/21/2009	6/19/2009	74.2	21,920	$3,625.35	$0.17
Electricity	kWh	4/20/2009	5/21/2009	73.1	21,280	$3,466.80	$0.16
Electricity	kWh	3/21/2009	4/20/2009	62.1	18,080	$3,052.34	$0.17
Electricity	kWh	2/20/2009	3/21/2009	64.3	14,560	$2,586.77	$0.18
Electricity	kWh	1/20/2009	2/20/2009	61.6	21,760	$3,654.90	$0.17
Electricity	kWh	12/18/2008	1/20/2009	62.7	22,880	$3,814.94	$0.17
Electricity	kWh	11/18/2008	12/17/2008	61.8	21,120	$3,478.52	$0.16
Electricity	kWh	10/18/2008	11/18/2008	62.7	22,240	$3,539.47	$0.16
		TOTALS/AVERAGE		66.8	234,080	$39,107.81	$0.167



Facility Name Gerace School
Company PSE&G HESS
Account# 31 821 054-50 394898 / 394988
Meter# 2413195
Tariff/Rate LVG

Energy Type	Energy Unit	Start Date	End Date	Demand	Therms	Delivery Cost	Supplier Cost	$/ Therms
Natural Gas	therms	9/26/2009	10/26/2009	NA	1,153	$210.90	$1,404.22	$1.40
Natural Gas	therms	8/26/2009	9/25/2009	NA	81	$100.41	$71.36	$2.12
Natural Gas	therms	7/26/2009	8/25/2009	NA	51	$99.87	$60.58	$3.36
Natural Gas	therms	6/26/2009	7/25/2009	NA	105	$105.93	$125.12	$2.20
Natural Gas	therms	5/26/2009	6/25/2009	NA	108	$106.31	$129.07	$2.18
Natural Gas	therms	4/26/2009	5/25/2009	NA	134	$108.92	$160.68	$2.01
Natural Gas	therms	3/26/2009	4/25/2009	NA	1,923	$294.37	$2,301.87	$1.35
Natural Gas	therms	2/26/2009	3/25/2009	172.3	3,134	$1,265.20	$3,751.95	$1.60
Natural Gas	therms	1/26/2009	2/25/2009	172.3	3,844	$1,399.49	$4,602.30	$1.56
Natural Gas	therms	12/24/2008	1/25/2009	172.3	4,421	$1,549.89	$5,292.80	$1.55
Natural Gas	therms	11/26/2008	12/24/2008	174.6	4,654	$1,589.67	$5,572.73	$1.54
Natural Gas	therms	10/26/2008	11/25/2008	174.6	3,383	$1,342.68	$4,058.00	$1.60
		TOTALS/AVERAGE		173.22	22,991	$8,173.64	$27,530.68	$1.553



$35,704.32

Air Handling Units - AHUs

Bldg	Tag#	Location	Area Serving	Equipment	Mfg	Model	Quantity	Cooling Technology	Supply Air CFM	Static Pressure w.c.	Fan HP	Cooling Capacity (Tons)	Heating Technology	Heating Capacity (MBH)	Heating GPM	Age	Estimated Service Life	Efficiency	Controls
Middle School	UV	Gym Ceiling	Gym	Unit Ventilator	NA	NA	4	NA	NA	NA	NA	NA	HHW	NA	NA	20+	15	*NA*	N
Middle School	UV	Cafetorium	Cafetorium	Unit Ventilator	NA	NA	5	NA	NA	NA	NA	NA	HHW	NA	NA	20+	15	*NA*	N
Middle School	AHU	Cafetorium	Cafetorium	Air Handling Units	NA	NA	4	NA	NA	NA	NA	NA	HHW	NA	NA	20+	15	*NA*	N
Middle School	HP	Library	Library	Heat Pump	Daikin	RX18FEJU	1	DX	800	NA	NA	2	ELECTRIC	*3 KW*	NA	3	15	*12*	N
Middle School	SPLIT SYSTEM	ROOF	COMPUTER LAB	SPLIT AC UNIT	TRANE	2TTA00060	1	DX	1600	NA	NA	5	ELECTRIC	*7 KW*	NA	3	15	*12*	N
Middle School	HP	ROOF	CLASSRM	Heat Pump	MITSUBISHI	NA	1	DX	800	NA	NA	NA	ELECTRIC	*3 KW*	NA	3	15	*12*	N
Middle School	HV	ROOF	INDUSTRIAL TECH	HV UNIT	NA	NA	1	NA	NA	NA	NA	NA	HHW	NA	NA	20+	15	*NA*	N
Middle School	SPLIT SYSTEM	ROOF	MUSIC	SPLIT AC UNIT	TRANE	XE900	1	DX	800	NA	NA	3	ELECTRIC	*3 KW*	NA	3	15	*12*	N
Middle School	SPLIT SYSTEM	ROOF	BAND	SPLIT AC UNIT	TRANE	2TTA00060	2	DX	1600	NA	NA	5	ELECTRIC	*7 KW*	NA	3	15	*12*	N
Middle School	SPLIT SYSTEM	ROOF	LOCKER	SPLIT AC UNIT	TRANE	XE900	1	DX	800	NA	NA	3	ELECTRIC	*3 KW*	NA	3	15	*12*	N
Middle School	RTU	ROOF	NURSE	ROOF TOP UNIT	TRANE	YHC036E3	1	DX	1600	NA	NA	5	GAS	*64 KBTU*	NA	3	15	*12*	N
Middle School	RTU	ROOF	NURSE	ROOF TOP UNIT	TRANE	YHC120E3	1	DX	3600	NA	NA	5	GAS	*64 KBTU*	NA	3	15	*12*	N

Boilers

Bldg	Tag#	Location	Area Serving	Equipment	Mfg	Model	Quantity	Fuel	Heating Input Btuh	Output Btuh	Age	Estimated Service Life	Efficiency	Notes	Estimated Service Life
Middle School	B-1	MER	HHW	Steam Boiler	HB Smith	M450L	2	Natural Gas	4,260,000	2,655,000	30+	30	*62%*		
Middle School	B-1	MER	HHW	HHW Boiler	Weil McLain	#88	1	Natural Gas	1,703,000	1,281,000	15	30	*75%*	Powerflame M/N WCR2-G-15 1/2 HP BLOWER MOTOR 240F Setpoint	

Heating Hot Water Pumps														
Bldg	Tag#	Location	Area Serving	Equipment	Motor Mfg	Motor Model	Quantity	GPM	Head ft	HP	Efficiency	Motor RPM	VFD?	Age	Estimated Service Life
Middle School	MU Pump 1-3	MER	Steam Boilers	Make-up water pumps	Marathon Electric	NVL56T17D2 057D	3	NA	NA	3/4	STD.	1800	NO	20+	20
Middle School	OIL Pump 1-2	MER	Steam Boilers	Oil Pump	NA	NA	2	NA	NA	1/4	STD.	1800	NO	20+	20
Middle School	HHW Pump	MER	HHW Boilers	HHW PUMPS	Marathon Electric	No Access	2	NA	NA	2	STD.	1800	NO	20+	20
Middle School	CR Pump 1-3	MER	Steam Boilers	Condensate Return Pumps	Westinghouse	na	2	NA	NA	1 1/2	STD.	1800	NO	20+	20
Middle School	HHW Pump	MER	HHW Boilers	HHW PUMPS	No Access	No Access	2	NA	NA	2	STD.	1800	NO	20+	20

DOMESTIC HOT WATER														
Bldg	Tag#	Location	Area Serving	Equipment	Quantity	Mfg	Model	Fuel	Gal	kW	# of elements	Age	Estimated Service Life	Notes
MIDDLE SCHOOL	DWH	MER	DOMESTIC HOT WATER	DHW BOILER	1	RHEEM	G75-75N-1	NATURAL GAS	75	NA	NA	2005	12	140 SETPOINT
MIDDLE SCHOOL	DWH	MER	DOMESTIC HOT WATER	INDIRECT FIRED DHW BOILER	1	RAYPAK	BUD4827D1 75A	NATURAL GAS	NA	NA	NA	15+	12	
MIDDLE SCHOOL	DWH	MER	DOMESTIC HOT WATER	DHW STORAGE TANK	1	NA	NA	NA	10'X5'	NA	NA	15+	12	
MIDDLE SCHOOL	DWH	MER	STEAM HX	STEAM TO HHW HEAT EXCHANGE	1	PATTERSON KELLY	NA	NA	NA	NA	NA	15+	12	

Other Mechanical Equipment														
Bldg	Tag#	Location	Area Serving	Equipment	Quantity	Mfg	Model	Fuel	Input Btuh	Output Btuh	Age	Estimated Service Life	Efficiency	Notes
Middle School	Window AC Units	Classrooms	Classrooms	Window AC Units	3	Various Brands								

Kitchen Equipment Inventory List							
EQUIPMENT	TAG #	MODEL #	MANUFACTURER	QUANTITY	ESTIMATED SERVICE LIFE	AGE	NOTES
Walk-in Refrigerator					NA		2 Evap Fans
Walk-in Freezer					NA		2 Evap Fans
Dishwasher					15		
Dishwasher Booster Heater					15		
Ice Machine					8		
Gas Convection Oven			GARLAND	2	12		
Kitchen Hood					NA		
Electric Food Warmer			VARIOUS BRANDS	3	12		

Kitchen Equipment Inventory List							
EQUIPMENT	TAG #	MODEL #	MANUFACTURER	QUANTITY	ESTIMATED SERVICE LIFE	AGE	NOTES
Refrigerator Double Door			VARIOUS BRANDS	2	12		
ICE CREAM FREEZER			VARIOUS BRANDS	3	12		
Freezer Single Door			IMPERIAL	1	12		
Freezer Double Door			TRUE	1	12		
Refrigerator Open Glass Single Door			BEVERAGE AIRE	2	12		
Open Dispay Case - Warm - 4 Bin			VARIOUS BRANDS	2	12		
Refrigerator Open Display Case			VARIOUS BRANDS	2	12		
Gas Stove 4 burner			GARLAND	1	12		

Air Handling Units - AHUs

Bldg	Tag#	Location	Area Serving	Equipment	Mfg	Model	Quantity	Cooling Technology	Supply Air CFM	Static Pressure w.c.	Fan HP	Cooling Capacity (Tons)	Heating Technology	Heating Capacity (MBH)	Heating GPM	Age	Estimated Service Life	Efficiency	Controls	Notes:
SJG	RTU	ROOF	LIBRARY	ROOFTOP UNIT	INNER CITY	C100G0	1	DX	1300	NA	NA	3	ELECTRIC	*7 KW*	NA	19	15	*10*	N	R-22
SJG	RTU	ROOF	COMPUTE R RM	ROOFTOP UNIT	LUXAIRE	HABAT048 SG	1	DX	1600	NA	NA	4	ELECTRIC	*7 KW*	NA	19	15	*10*	N	R-22
SJG	RTU	ROOF	COMPUTE R RM	SPLIT AC	CARRIER	COMFORT MAKER	1	DX	1300	NA	NA	3	ELECTRIC	*7 KW*	NA	19	15	*10*	N	R-22

Boilers

Bldg	Tag#	Location	Area Serving	Equipment	Mfg	Model	Quantity	Fuel	Heating Input Btuh	Output Btuh	Age	Estimated Service Life	Efficiency	Notes
SJG	B-1	MER	BUILDING HHW	FIRE-TUBE BOILER	SUPIERIOR	611-11599	1	NATURAL GAS	5,120,000		30+	30	*80%*	

Heating Hot Water Pumps

Bldg	Tag#	Location	Area Serving	Equipment	Motor Mfg	Motor Model	Quantity	GPM	Head ft	HP	Efficiency	Motor RPM	VFD?	Age	Estimated Service
SJG	HHW PUMP	MER	BUILDING HHW	HHW PUMP	BALDOR	NA	2	NA	NA	5	87.5%	1800	N	10+	20

DOMESTIC HOT WATER

Bldg	Tag#	Location	Area Serving	Equipment	Quantity	Mfg	Model	Fuel	Gal	kW	# of elements	Age	Estimated Service Life	Notes
SJG	DHW	MER	DHW	DOMESTIC HOT WATER	1	AO SMITH	BT 80 808	NATURAL GAS	80	NA	NA	15+	15	

Other Mechanical Equipment

Bldg	Tag#	Location	Area Serving	Equipment	Quantity	Mfg	Model	Fuel	Input Btuh	Output Btuh	Age	Estimated Service Life	Efficiency	Notes
SJG	AIR COMPRESSOR				1	DAYTON	NA				15	15		2 DAYTON MOTORS 81.5& EFF

Boilers

Bldg	Tag#	Location	Area Serving	Equipment	Mfg	Model	Quantity	Fuel	Heating Input Btuh	Output Btuh	Age	Estimated Service Life	Efficiency	Notes
HILLVIEW	BOILER - 1	MER	HHW	CAST IRON BOILER	HB SMITH	SERIES 28A-8	1	NATURAL GAS	2,499,000	1,709,000	47	25	*68%*	3/4 HP BLOWER MOTOR
HILLVIEW	BOILER - 2	MER	STEAM	WATER TUBE BOILER	SUPERIOR	SERIES 4404-1012D	1	NATURAL GAS	3,348,000	0	30+	25	*0%*	

Heating Hot Water Pumps

Bldg	Tag#	Location	Area Serving	Equipment	Motor Mfg	Motor Model	Quantity	GPM	Head ft	HP	Efficiency	Motor RPM	VFD?	Age	Estimated Service Life
HILLVIEW	HHW PUMP	MER	PERIMETER HHW	HHW	BALDOR	NA	2	NA	NA	3	STD	1800	N	20+	20
HILLVIEW	HHW PUMP	MER	PERIMETER HHW	HHW	EMERSON	NA	2	NA	NA	3	STD	1800	N	20+	20

Air Handling Units - AHUs

Bldg	Tag#	Location	Area Serving	Equipment	Mfg	Model	Quantity	Cooling Technology	Supply Air CFM	Static Pressure w.c.	Fan HP	Cooling Capacity (Tons)	Heating Technology	Heating Capacity (MBH)	Heating GPM	Age	Estimated Service Life	Efficiency	Controls
HILLVIEW	SPLIT AC	ROOF	FACULTY RM	SPLIT AC	RHEEM	C-030CAS	1	DX	800	NA	NA	2	ELECTRIC	*3 KW*	NA	20	15	*11*	NA
HILLVIEW	HV	ROOF	ALL PURPOSE RM	HEATING VENTILATOR	CARRIER	NA	1	NA	NA	NA	NA	NA	HHW	*NA*	NA	20	15	*NA*	NA
HILLVIEW	RTU	ROOF	MEDIA CENTER	RTU	CARRIER	50DJ006250	1	DX	2000	NA	NA	5	ELECTRIC	*7 KW*	NA	20	15	*11*	NA
HILLVIEW	SPLIT AC	ROOF	MAIN OFFICE	SPLIT AC	RHEEM	RACM048	1	DX	1600	NA	NA	4	ELECTRIC	*7 KW*	NA	20	15	*11*	NA
HILLVIEW	SPLIT AC	ROOF	PRINCIPAL	SPLIT AC	RHEEM	RACM036	1	DX	1300	NA	NA	3	ELECTRIC	*7 KW*	NA	20	15	*11*	NA
HILLVIEW	SPLIT AC	ROOF	NURSE	SPLIT AC	RHEEM	RACM036	1	DX	1300	NA	NA	3	ELECTRIC	*7 KW*	NA	20	15	*11*	NA
HILLVIEW	HV	ROOF	GYM	HEATING VENTILATOR	NA	NA	1	NA	NA	NA	NA	NA	HHW	*NA*	NA	20	15	*NA*	NA

DOMESTIC HOT WATER

Bldg	Tag#	Location	Area Serving	Equipment	Quantity	Mfg	Model	Fuel	Gal	kW	# of elements	Age	Estimated Service Life	Notes
HILLVIEW	DHW	MER	BUILDING	DOMESTIC HOT WATER	1	AO SMITH	ET100N0N0 10000	NATURAL GAS	100	NA	NA	8	12	

Other Mechanical Equipment

Bldg	Tag#	Location	Area Serving	Equipment	Quantity	Mfg	Model	Fuel	Input Btuh	Output Btuh	Age	Estimated Service Life	Efficiency	Notes
HILLVIEW	WINDOW AC UNIT	CLASSROM	CLASSROM	WINDOW AC UNIT	7	VARIOUS BRANDS					5+	10		

Compiled by Dome-Tech, Inc.

Air Handling Units - AHUs

Bldg	Tag#	Location	Area Serving	Equipment	Mfg	Model	Quantity	Cooling Technology	Supply Air CFM	Static Pressure w.c.	Fan HP	Cooling Capacity (Tons)	Heating Technology	Heating Capacity (MBH)	Heating GPM	Age	Estimated Service Life	Efficiency	Controls
NORTH BLVD	AC	ROOF	COMPUTER RM	AC UNIT	TRANE	NA	1	DX	*1300*	NA	NA	3	NA	NA	NA	25	15	*10*	N
NORTH BLVD	HV	ROOF	ART MUSIC	HEATING VENTILATOR UNIT	NA	NA	1	NA	*5000*	NA	NA	NA	HHW	NA	NA	25	15	*10*	N
NORTH BLVD	AC	ROOF	OFFICES	AC UNIT	TRANE	XE900 - TDD0718B100A0	1	DX	*800*	NA	0.33	1	ELECTRIC	NA	NA	21	15	*10*	N
NORTH BLVD	HV	ROOF	GYM	HEATING VENTILATOR UNIT	NA	NA	1	NA	*5000*	NA	NA	NA	HHW	NA	NA	25	15	*10*	N

Boilers

Bldg	Tag#	Location	Area Serving	Equipment	Mfg	Model	Quantity	Fuel	Heating Input	Output Btuh	Age	Estimated Service	Efficiency	Notes
NORTH BLVD	B - 1	MER	BUILDLING HHW	CAST IRON BOILER	HB SMITH	28A-8	1	NATURAL GAS	2,499,000	1,709,000	10+	25	*68%*	3/4 HP BLOWER MOTOR - MARATHON ELECTRIC
NORTH BLVD	B - 1	MER	BUILDLING HHW	STEAM CAST IRON BOILER	HB SMITH	28A-8	1	NATURAL GAS	2,499,000	1,526,000	7	25	*61%*	3/4 HP BLOWER MOTOR - MARATHON ELECTRIC

Heating Hot Water Pumps

Bldg	Tag#	Location	Area Serving	Equipment	Motor Mfg	Motor Model	Quantity	GPM	Head ft	HP	Efficiency	Motor RPM	VFD?	Age	Estimated Service
NORTH BLVD	P-1,2	MER	BUILDING HHW	HHW PUMP	EMERSON	NA	2	NA	NA	3	STD	1800	N	10+	20
NORTH BLVD	P-1,2	MER	CONDENSATE RETURN PUMP	CONDENSATE RETURN PUMP	FT INDUSTRIES	CRHL23	2	NA	NA	1	STD	1800	N	10+	20
NORTH BLVD	P-1	MER	BUILDING HHW	HHW PUMP	BROOK CROMTON	A18OJJM	1	NA	NA	5	87.5%	1800	N	10+	20
NORTH BLVD	P-1	MER	BUILDING HHW	HHW PUMP	MARATHON ELECTRIC	V184TTDD7357 AA	1	NA	NA	5	86.5%	1800	N	10+	20
NORTH BLVD	P-1,2	MER	MAKE-UP WATER	MAKEUP WATER PUMP	AO SMITH	048H2EC	2	NA	NA	1/2	STD	1800	N	15	20

DOMESTIC HOT WATER

Bldg	Tag#	Location	Area Serving	Equipment	Quantity	Mfg	Model	Fuel	Gal	kW	# of elements	Age	Estimated Service Life	Notes
NORTH BLVD	DHW	MER	BUILDING DHW	DHW HEATER	1	AO SMITH	BT 80 230	NATURAL GAS	80	NA	NA	11	12	
NORTH BLVD	DHW	MER	BUILDING DHW	DHW HEATER	1	AO SMITH	BT 80 230	NATURAL GAS	80	NA	NA	9	12	

Other Mechanical Equipment

Bldg	Tag#	Location	Area Serving	Equipment	Quantity	Mfg	Model	Fuel	Input Btuh	Output Btuh	Age	Estimated Service Life	Efficiency	Notes
NORTH BLVD	AIR COMPRESSOR				1	LANDIS GYR	NA	NA	NA	NA	NA	15	MOTOR 75% EFF	3/4 HP

Air Handling Units - AHUs

Bldg	Tag#	Location	Area Serving	Equipment	Mfg	Model	Quantity	Cooling Technology	Supply Air CFM	Static Pressure w.c.	Fan HP	Cooling Capacity (Tons)	Heating Technology	Heating Capacity (MBH)	Heating GPM	Age	Estimated Service Life	Efficiency	Controls	Notes:
PHS	HV	GYM	GYM	HEATING VENTILATOR UNIT	NA	NA	2	NA	TBD	NA	NA	NA	NATURAL GAS	NA	NA	30+	15	NA	N	
PHS	FCU	LOCKER RM	LOCKER RM	FAN COIL UNIT	NA	NA	4	NA	TBD	NA	NA	NA	HHW	NA	NA	30+	15	NA	N	
PHS	HV	GYM	GYM A	HEATING VENTILATOR UNIT	TRANE	LPCAD0ED4	3	NA	1500	NA	NA	NA	HHW	NA	NA	1	15	NA	N	SF MOTOR 1.5 HP
PHS	HV-L1,L2	ROOF	LOCKER RM	HEATING VENTILATOR UNIT	TRANE	GRADA25PDM	2	NA	3100	NA	NA	NA	NATURAL GAS	NA	NA	1	15	80%	N	
PHS	ERU - 1	ROOF	AUDITORIUM	ENERGY RECOVERY UNIT	ANNEXAIRE	ERU-16-HW07	1	DX	16000	NA	NA	40	NATURAL GAS	NA	NA	1	15	NA	N	100% RECIREC UNIT, DESICANT WHEEL, 7.5 HP
PHS	RTU	ROOF	ADMIN	ROOFTOP UNIT	TRANE	WCC036	1	DX	1300	NA	NA	3	NA	NA	NA	18	15	11	N	
PHS	RTU	ROOF	PROF DEVELOPMENT	ROOFTOP UNIT	TRANE	WCC042	1	DX	1600	NA	NA	4	NA	NA	NA	18	15	11	N	
PHS	RTU - 1	ROOF	PROF DEVELOPMENT	ROOFTOP UNIT	TRANE	WCC042	1	DX	1600	NA	NA	4	NA	NA	NA	18	15	11	N	
PHS	RTU - 2	ROOF	LIBRARY	ROOFTOP UNIT	TRANE	YHC181E4	1	DX	5700	NA	NA	15	NATURAL GAS	199 KBTU	NA	1	15	8.3	N	
PHS	RTU - 2	ROOF	LIBRARY	ROOFTOP UNIT	TRANE	YHC048E4	1	DX	1600	NA	NA	4	NATURAL GAS	60 KBTU	NA	1	15	8.3	N	
PHS	ERU	ROOF	MUSIC/STAGE	ENERGY RECOVERY UNIT	HEATEX	ERU2000	1	NA	5000	NA	NA	NA	HHW	NA	NA	10+	15	NA	N	2 HP SF, 1.5 HP EF
PHS	HV	ROOF	CHEMISTRY/PHYSICS	HEATING VENTILATOR UNIT	STERLING	ELKRTM108C03K13	1	NA	5000	NA	NA	NA	NATURAL GAS	NA	NA	30+	15	NA	N	
PHS	RTU - 3	ROOF	BAND	ROOFTOP UNIT	TRANE	4SE072E4RZ	1	DX	1600	NA	NA	6	NATURAL GAS	150 KBTU	NA	1	15	11	N	
PHS	RTU - 4	ROOF	BAND	ROOFTOP UNIT	TRANE	YSC120ERCA	1	DX	3600	NA	NA	10	NATURAL GAS	250 KBTU	NA	1	15	8.9	N	
PHS	AHU	E-104	500 WING	AIR HANDLING UNIT	NA	NA	1	NA	TBD	NA	NA	NA	HHW	NA	NA	30+	15	NA	N	1 HP BOOSTER PUMP
PHS	FCU	CLASSROOMS	TYPICAL CLASSROOMS	FAN COIL UNIT	NESBITT	C031	EACH CLASSRM	NA	TBD	NA	NA	NA	HHW	NA	NA	30+	15	NA	N	

Boilers

Bldg	Tag#	Location	Area Serving	Equipment	Mfg	Model	Quantity	Fuel	Heating Input Btuh	Output Btuh	Age	Estimated Service Life	Efficiency	Notes
PHS	B - 1 - 5	MER	BUILDING HHW	CONDENSING BOILER	AERCO	BENCHMARK 3.0	5	NATURAL GAS	3,000,000	2,100,000	1	30	93%	

Heating Hot Water Pumps

Bldg	Tag#	Location	Area Serving	Equipment	Motor Mfg	Motor Model	Quantity	GPM	Head ft	HP	Efficiency	Motor RPM	VFD?	Age	Estimated Service Life
PHS	P - 1,2	MER	HHW	HHW PUMPS	MARATHON ELECTRIC	6VD213TTDW7048AB	2	500	40	7 1/2	STD	1800	NO	20+	20
PHS	P - 1	MER	HHW	HHW PUMPS	WEG	00158OT3EN145T	1	124	21	1 1/2	STD	1800	NO	20+	20
PHS	P - 1	MER	HHW	HHW PUMPS	WEG	00518OTE184T	2	135	40	5	STD	1800	NO	20+	20

DOMESTIC HOT WATER PUMPS

Bldg	Tag#	Location	Area Serving	Equipment	Motor Mfg	Motor Model	Quantity	GPM	Head ft	HP	Efficiency	Motor RPM	VFD?	Age	Estimated Service Life
PHS	RECIRC PUMP	MER	DHW	DHW RECIRC PUMP	B&G	V75S	1	NA	NA	0.08	STD	1800	N	20+	20
PHS	P-6	MER	DHW	DHW RECIRC PUMP	ARMSTRONG	H53AB	1	NA	NA	1/2	STD	1800	N	5	20
PHS	P-8	MER	DHW	DHW RECIRC PUMP	ARMSTRONG	H53AB	1	NA	NA	1/2	STD	1800	N	5	20

Other Mechanical Equipment

Bldg	Tag#	Location	Area Serving	Equipment	Quantity	Mfg	Model	Fuel	Input Btuh	Output Btuh	Age	Estimated Service Life	Efficiency	Notes
PHS	WINDOW AC UNIT	WINDOW AC UNIT	CLASSROOM	WINDOW AC UNIT	13	VARIOUS BRANDS								
PHS	WALK-IN COOLER	ROOF	WALKING COOLER	CONDENSER UNIT	1	CARRIER	38EA009550	NA	6.5 TONS		20+	15	11	0.23 KW, LRA 39.8 208V

Misc Pumps

Bldg	Tag#	Location	Area Serving	Equipment	Motor Mfg	Motor Model	Quantity	GPM	Head ft	HP	Efficiency	Motor RPM	VFD?	Age	Estimated Service Life
PHS	EJECTOR PUMP	E101	BUILDING	SEWAGE EJECTOR PUMP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Kitchen Equipment Inventory List

EQUIPMENT	TAG #	MODEL #	MANUFACTURER	QUANTITY	CAPACITY	ESTIMATED SERVICE LIFE	AGE	NOTES
Walk-in Refrigerator			SYNDER GENERAL	1	2 EVAP FANS	NA		2 Evap Fans
Walk-in Freezer			RUSSELL	1	2 EVAP FANS	NA		2 Evap Fans
Dishwasher						15		
Dishwasher Booster Heater						15		
Ice Machine			VULCAN	2	12 CU FT	8		
Gas Convection Oven						12		
Electric Food Warmer			METRO	1		12		NEW
Electric Food Warmer			VARIOUS BRANDS	1		12		

Kitchen Equipment Inventory List

EQUIPMENT	TAG #	MODEL #	MANUFACTURER	QUANTITY	CAPACITY	ESTIMATED SERVICE LIFE	AGE	NOTES
Refrigerator Double Door			TRAULSEN	2		12		
Freezer Single Door			VARIOUS BRANDS	2		12		
Freezer Double Door						12		
Refrigerator Open Glass Single Door			TRUE	2		12		
Refrigerator Open Glass Double Door						12		
Open Dispay Case - Warm - 4 Bin			VARIOUS BRAND	2				
Refrigerator Open Display Case						12		
STOVE 6 BURNER			VULCAN	1		12		
GRIDDLE			VULCAN	1		12		

LIGHTING INVENTORY SUMMARY
PEQUANNOCK TOWNSHIP- HIGH SCHOOL
538 Newark Pompton Turnpike
Pompton Plains, NJ 07444

EXECUTIVE SUMMARY

ENERGY DATA

Existing Energy Usage (Watts)	122,520
Proposed Energy Usage (Watts)	89,591
Energy Saved (Watts)	32,929
Annual Kilowatt Hours Saved (kWh)	166,098

FINANCIAL DATA

Annual Existing Energy Cost	$	79,392.96
Annual Proposed Energy Cost	$	58,054.97
Annual Energy Savings	$	21,337.99
Additional Energy Savings (Occupancy Sensors)	$	5,569.95
Total Energy Savings	$	26,907.94
Initial Project Cost	$	69,497.26
Utility Rebate (Based on NJ Smart Start Approval)	$	8,225.00
Project Cost	$	61,272.26

CASH FLOW SUMMARY

Return On Investment (R.O.I.)		35%
Payback (Years)		2.87
10 Year Savings	$	213,379.92
10-Year Cumulative Positive Cash Flow	$	152,107.66

PEQUANNOCK TOWNSHIP- HIGH SCHOOL
538 Newark Pompton Turnpike
Pompton Plains, NJ 07444

New Jersey

Steven DiGeronimo
973-616-6030

UTILITY ACCOUNT NUMBER	N/A
BUILDING TYPE	Educational
SQUARE FOOTAGE	137,355

LN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty.	Exist. Fix Wts	Foot Candle	Total Fix Wts	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl. Qty.	Repl. Fix Wts	Total Fix Wts	Proposed An. Cost	Opr. Hours	Fix Wts Saved	KWh Saved	0.15/KWh	Annual Elec. Savings	Annual Sens. Savings
1	1		300	GIRLS LOCKER ROOM	2L F32T8 WRAP		9	60		540	$349.92	2L F32T8 25W RELAMP		$ -	9	43	387	$250.78	4000	153	612	99.144	$ 99.14	
2	1			OFFICE	2L F34T12 WRAP		2	80		160	$103.68	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	74	296	47.952	$ 47.95	
3	1			BATHROOM	2L F34T12 WRAP		1	80		80	$51.84	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	37	148	23.976	$ 23.98	
4	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.36
5	1			SHOWERS	2L F32T8 WRAP		3	60		180	$116.64	2L F32T8 25W RELAMP		$ -	3	43	129	$83.59	4000	51	204	33.048	$ 33.05	
6	1			SHOWERS	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
7	1		C103	SLOP SINK	20W CFL		1	20		20	$12.96	NO MEASURE		$ -	1	20	20	$12.96	4000	0	0	0	$ -	
8	1		C103	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.89
9	1		WE106	WOMENS BATHROOM	2L F34T12 (2X4)		1	80		80	$51.84	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	37	148	23.976	$ 23.98	
10	1		WE106	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.36
11	1			GYM (SMALL)	400W MH HID		20	455		9100	$5,896.80	6L T5HO ELB/HBF HIGH BAY FIXTURE	100	$ 2,000.00	20	351	7020	$4,548.96	4000	2080	8320	1347.84	$ 1,347.84	
12	1		M101	STORAGE	2L F34T12 WRAP		1	80		80	$51.84	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	37	148	23.976	$ 23.98	
13	1		M101	STORAGE	20W CFL		1	20		20	$12.96	NO MEASURE		$ -	1	20	20	$12.96	4000	0	0	0	$ -	
14	1		M101	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.89
15	1		M102	STORAGE	20W CFL		2	20		40	$25.92	NO MEASURE		$ -	2	20	40	$25.92	4000	0	0	0	$ -	
16	1		M102	STORAGE	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
17	1		M102	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.89
18	1		L200	LOCKERS	2L F32T8 WRAP		11	60		660	$427.68	2L F32T8 25W RELAMP		$ -	11	43	473	$306.50	4000	187	748	121.176	$ 121.18	
19	1		L200	BATHROOM	2L F32T8 WRAP		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
20	1		L200	OFFICE	2L F34T12 WRAP		2	80		160	$103.68	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	74	296	47.952	$ 47.95	
21	1		L200	SLOP SINK	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
22	1		WC103	Room	20W CFL		1	20		20	$12.96	NO MEASURE		$ -	1	20	20	$12.96	4000	0	0	0	$ -	
23	1		WC102	Room	2L F32T8 WRAP		6	60		360	$233.28	2L F32T8 25W RELAMP		$ -	6	43	258	$167.18	4000	102	408	66.096	$ 66.10	
24	1		WC102	Room	4LF32T8 (2X4)		1	112		112	$72.58	4L F32T8 25W RELAMP		$ -	1	86	86	$55.73	4000	26	104	16.848	$ 16.85	
25	1			GYM (LARGE)	400W MH HID		39	455		17745	$11,498.76	6L T5HO ELB/HBF HIGH BAY FIXTURE	100	$ 3,900.00	39	351	13689	$8,870.47	4000	4056	16224	2628.288	$ 2,628.29	
26	1		L100	BOYS LOCKER ROOM	2L F32T8 (1X4)		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
27	1		L100	BOYS LOCKER ROOM	2L F34T12 (1X4)		10	80		800	$518.40	2L F32T8 25W RELAMP		$ -	10	43	430	$278.64	4000	370	1480	239.76	$ 239.76	
28	1		L102	LOCKERS	2L F34T12 (1X4)		2	80		160	$103.68	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	74	296	47.952	$ 47.95	
29	1		L103	LOCKERS	2L F32T8 WRAP		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
30	1		L103	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 33.44
32	1		L101	BACK ENTRANCE	2L F17T8 (2X2)		1	37		37	$23.98	NO MEASURE		$ -	1	37	37	$23.98	4000	0	0	0	$ -	
33	1		L103B	CLOSET	20W CFL		2	20		40	$25.92	NO MEASURE		$ -	2	20	40	$25.92	4000	0	0	0	$ -	
34	1		L100A	COACH OFFICE	2L F32T8 WRAP		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
35	1		L100B	BREAK ROOM	2L F34T12 WRAP		4	80		320	$207.36	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	148	592	95.904	$ 95.90	
36	1		L100C	CLOSET	20W CFL		1	20		20	$12.96	NO MEASURE		$ -	1	20	20	$12.96	4000	0	0	0	$ -	
37	1		L100C	BATHROOM	2L F34T12 WRAP		1	80		80	$51.84	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	37	148	23.976	$ 23.98	
38	1		L100C	BATHROOM	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
39	1			LOCKER BATHROOM	2L F32T8 WRAP		5	60		300	$194.40	2L F32T8 25W RELAMP		$ -	5	43	215	$139.32	4000	85	340	55.08	$ 55.08	
40	1		C101	SLOP SINK	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
41	1		C101	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.89
42	1		SR1	SHOWERS	100W A		6	100		600	$388.80	20W CFL		$ -	6	20	120	$77.76	4000	480	1920	311.04	$ 311.04	
43	1		E100	ELECTRICAL PANELS	20W CFL		1	20		20	$12.96	NO MEASURE		$ -	1	20	20	$12.96	4000	0	0	0	$ -	
44	1			GYM HALL	3L F34T12 (2X4)		4	130		520	$336.96	3L F32T8 25W RELAMP/REBALLAST	20	$ 80.00	4	66	264	$171.07	4000	256	1024	165.888	$ 165.89	
45	1			GYM HALL	4L F32T8 (2X4)		2	112		224	$145.15	4L F32T8 25W RELAMP		$ -	2	86	172	$111.46	4000	52	208	33.696	$ 33.70	
46	1			GYM HALL	4L F34T12 (2X4)		1	160		160	$103.68	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$55.73	4000	74	296	47.952	$ 47.95	
47	1			GYM HALL	2L F32T8 (2X4)		3	60		180	$116.64	2L F32T8 25W RELAMP		$ -	3	43	129	$83.59	4000	51	204	33.048	$ 33.05	
48	1			GYM HALL	3L F17T8 (2X2)		12	54		648	$419.90	NO MEASURE		$ -	12	54	648	$419.90	4000	0	0	0	$ -	
49	1		102	WEIGHT ROOM	2L F32T8 WRAP		20	60		1200	$777.60	2L F32T8 25W RELAMP		$ -	20	43	860	$557.28	4000	340	1360	220.32	$ 220.32	
50	1		102A	WEIGHT ROOM OFFICE	2L F34T12 INDUSTRIAL		4	80		320	$207.36	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	148	592	95.904	$ 95.90	
51	1		102A	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 33.44
52	1		102B	STORAGE	2L F34T12 WRAP		2	80		160	$103.68	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	74	296	47.952	$ 47.95	
53	1		102B	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 16.72
54	1		101	SPRINKLER	2L F32T8 WRAP		28	60		1680	$1,088.64	2L F32T8 25W RELAMP		$ -	28	43	1204	$780.19	4000	476	1904	308.448	$ 308.45	
55	1		101A	OFFICE	2L F32T8 WRAP		8	60		480	$311.04	2L F32T8 25W RELAMP		$ -	8	43	344	$222.91	4000	136	544	88.128	$ 88.13	
56	1		C100	PAPER STORAGE	2L F34T12 INDUSTRIAL		1	80		80	$51.84	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	37	148	23.976	$ 23.98	
57	1		C100	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.36
58	1		C100A	CLEANING STORAGE	100W A		2	100		200	$129.60	20W CFL		$ -	2	20	40	$25.92	4000	160	640	103.68	$ 103.68	
59	1		C100A	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 7.78
60	1		S100	STORAGE	2L F34T12 WRAP		4	80		320	$207.36	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	148	592	95.904	$ 95.90	
61	1			ENTRANCE	2L F34T12 WRAP		1	80		80	$51.84	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	37	148	23.976	$ 23.98	
62	1			ENTRANCE	2L F32T8 WRAP		1	60		60	$38.88	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	17	68	11.016	$ 11.02	
63	1		C100B	STORAGE	2L F34T12 WRAP		1	80		80	$51.84	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	37	148	23.976	$ 23.98	
64	1			BOILER	2L F32T8 WRAP		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
65	1			BOILER	4L F32T8 INDUSTRIAL		3	112		336	$217.73	4L F32T8 25W RELAMP		$ -	3	86	258	$167.18	4000	78	312	50.544	$ 50.54	
66	1			BOILER	20W CFL		2	20		40	$25.92	NO MEASURE		$ -	2	20	40	$25.92	4000	0	0	0	$ -	
67	1			LUNCH ROOM	2L F32T8 (2X4)		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
68	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 16.72

LN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist Qty.	Exist Fix Wts.	Foot Candle	Total Fix Wts	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl Qty.	Repl Fix Wts	Total Fix Wts	Proposed An. Cost	Opr. Hours	Fix Wts Saved	kWh Saved	0.15/kWh	Annual Elec. Savings	Annual Sens. Savings
69	1		C100	JANITOR	2L F32T8 WRAP		1	60		60	$38.88	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	17	68	11.016	$ 11.02	
70	1		C100	JANITOR	20W CFL		1	20		20	$12.96	NO MEASURE		$ -	1	20	20	$12.96	4000	0	0	0	$ -	
71	1		C100	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.89
72	1		206	ART	4L F32T8 WRAP		18	112	52	2016	$1,306.37	4L F32T8 25W RELAMP		$ -	18	86	1548	$1,003.10	4000	468	1872	303.264	$ 303.26	
73	1		206	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 300.93
74	1		206A	KILN	2L F34T12 WRAP		1	80		80	$51.84	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	37	148	23.976	$ 23.98	
75	1		207	CLASSROOM	4L F32T8 WRAP		9	112		1008	$653.18	4L F32T8 25W RELAMP		$ -	9	86	774	$501.55	4000	234	936	151.632	$ 151.63	
76	1		207	OFFICE	4L F32T8 WRAP		2	112		224	$145.15	4L F32T8 25W RELAMP		$ -	2	86	172	$111.46	4000	52	208	33.696	$ 33.70	
77	1		207	LAB	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
78	1		207	STORAGE	100W A		4	100		400	$259.20	20W CFL		$ -	4	20	80	$51.84	4000	320	1280	207.36	$ 207.36	
79	1		208	COPY	1L F32T8 WRAP		3	30		90	$58.32	1L F32T8 25W RELAMP		$ -	3	22	66	$42.77	4000	24	96	15.552	$ 15.55	
80	1		208	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 12.83
81	1		205	TECH CLASSROOM	2L F32T8 (2X4)		10	60		600	$388.80	2L F32T8 25W RELAMP		$ -	10	43	430	$278.64	4000	170	680	110.16	$ 110.16	
82	1		205	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 83.59
83	1		204	CLASSROOM	2L F32T8 WRAP		6	60		360	$233.28	2L F32T8 25W RELAMP		$ -	6	43	258	$167.18	4000	102	408	66.096	$ 66.10	
84	1		204	CLASSROOM	4L F32T8 WRAP		4	112		448	$290.30	4L F32T8 25W RELAMP		$ -	4	86	344	$222.91	4000	104	416	67.392	$ 67.39	
85	1		204	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 66.87
86	1		203	CLASSROOM	2L F32T8 WRAP		18	60	26	1080	$699.84	2L F32T8 25W RELAMP		$ -	18	43	774	$501.55	4000	306	1224	198.288	$ 198.29	
87	1		203	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 150.47
88	1		S102	ROOM	100W A		3	100		300	$194.40	20W CFL		$ -	3	20	60	$38.88	4000	240	960	155.52	$ 155.52	
89	1		S102	ROOM	4L F32T8 (2X4)		1	112		112	$72.58	4L F32T8 25W RELAMP		$ -	1	86	86	$55.73	4000	26	104	16.848	$ 16.85	
90	1		S102	ROOM	4L F34T12 (2X4)		3	160		480	$311.04	4L F32T8 25W RELAMP/REBALLAST	20	$ 60.00	3	86	258	$167.18	4000	222	888	143.856	$ 143.86	
91	1			FACULTY DINNING	2L F32T8 WRAP		12	60		720	$466.56	2L F32T8 25W RELAMP		$ -	12	43	516	$334.37	4000	204	816	132.192	$ 132.19	
92	1			KITCHEN	2L F32T8 WRAP		36	60		2160	$1,399.68	2L F32T8 25W RELAMP		$ -	36	43	1548	$1,003.10	4000	612	2448	396.576	$ 396.58	
93	1			KITCHEN	1L F32T8 WRAP		3	30		90	$58.32	1L F32T8 25W RELAMP		$ -	3	22	66	$42.77	4000	24	96	15.552	$ 15.55	
94	1			GIRLS LOCKER ROOM	2L F32T8 WRAP		1	60		60	$38.88	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	17	68	11.016	$ 11.02	
95	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.36
96	1			GIRLS BATHROOM	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
97	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.89
98	1			KITCHEN OFFICE	2L F32T8 WRAP		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
99	1			CLEANING	100W A		4	100		400	$259.20	20W CFL		$ -	4	20	80	$51.84	4000	320	1280	207.36	$ 207.36	
100	1			MECHANICAL/ PHONE	20W CFL		3	20		60	$38.88	NO MEASURE		$ -	3	20	60	$38.88	4000	0	0	0	$ -	
101	1			MECHANICAL/ PHONE	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
102	1			HOODS	100W A		10	100		1000	$648.00	20W CFL		$ -	10	20	200	$129.60	4000	800	3200	518.4	$ 518.40	
103	1		202	CLASSROOM	2L F32T8 WRAP		22	60	36	1320	$855.36	2L F32T8 25W RELAMP		$ -	22	43	946	$613.01	4000	374	1496	242.352	$ 242.35	
104	1		202	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 183.90
105	1		201	GUIDANCE OPEN AREA	2L F32T8 WRAP		20	60		1200	$777.60	2L F32T8 25W RELAMP		$ -	20	43	860	$557.28	4000	340	1360	220.32	$ 220.32	
106	1		201	OFFICE 1	4L F32T8 WRAP		2	112		224	$145.15	4L F32T8 25W RELAMP		$ -	2	86	172	$111.46	4000	52	208	33.696	$ 33.70	
107	1		201	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 33.44
108	1		201	OFFICE 2	4L F32T8 WRAP		2	112		224	$145.15	4L F32T8 25W RELAMP		$ -	2	86	172	$111.46	4000	52	208	33.696	$ 33.70	
109	1		201	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 33.44
110	1		201	OFFICE 3	4L F32T8 WRAP		2	112		224	$145.15	4L F32T8 25W RELAMP		$ -	2	86	172	$111.46	4000	52	208	33.696	$ 33.70	
111	1		201	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 33.44
112	1		201	OFFICE 4	4L F32T8 WRAP		2	112		224	$145.15	4L F32T8 25W RELAMP		$ -	2	86	172	$111.46	4000	52	208	33.696	$ 33.70	
113	1		201	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 33.44
114	1			CONFERENCE ROOM	2L F32T8 WRAP		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
115	1			RECEPTION	4L F32T8 WRAP		1	112		112	$72.58	4L F32T8 25W RELAMP		$ -	1	86	86	$55.73	4000	26	104	16.848	$ 16.85	
116	1			RECEPTION	2L F17T8 (2X2)		6	37		222	$143.86	NO MEASURE		$ -	6	37	222	$143.86	4000	0	0	0	$ -	
117	1			OFFICE 5	4L F32T8 WRAP		2	112		224	$145.15	4L F32T8 25W RELAMP		$ -	2	86	172	$111.46	4000	52	208	33.696	$ 33.70	
118	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 33.44
119	1			OFFICE 6	2L F32T8 WRAP		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
120	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 16.72
121	1			OFFICE 7	2L F32T8 WRAP		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
122	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 16.72
123	1			OFFICE 8	2L F32T8 WRAP		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
124	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 16.72
125	1			SUPPLY CLOSET	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
126	1			MENS FACULTY BATHRO	4L F32T8 (2X4)		3	112		336	$217.73	4L F32T8 25W RELAMP		$ -	3	86	258	$167.18	4000	78	312	50.544	$ 50.54	
127	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 50.16
128	1			WOMENS FACULTY BATH	4L F32T8 (2X4)		3	112		336	$217.73	4L F32T8 25W RELAMP		$ -	3	86	258	$167.18	4000	78	312	50.544	$ 50.54	
129	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 50.16
130	1		C106	SLOP SINK	20W CFL		1	20		20	$12.96	NO MEASURE		$ -	1	20	20	$12.96	4000	0	0	0	$ -	
131	1		301	ASSISTANT PRINCIPAL	2L F32T8 (2X4)		3	60		180	$116.64	2L F32T8 25W RELAMP		$ -	3	43	129	$83.59	4000	51	204	33.048	$ 33.05	
132	1		301A	OFFICE	2L F32T8 (2X4)		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
133	1		301B	OFFICE	2L F32T8 (2X4)		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
134	1		302	MEDIA	2L F32T8 (2X4)		9	60		540	$349.92	2L F32T8 25W RELAMP		$ -	9	43	387	$250.78	4000	153	612	99.144	$ 99.14	
135	1		302	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 75.23
136	1		302A	IT	2L F32T8 WRAP		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
137	1		302B	STORAGE	2L F32T8 (2X4)		3	60		180	$116.64	2L F32T8 25W RELAMP		$ -	3	43	129	$83.59	4000	51	204	33.048	$ 33.05	
138	1		300A	BATHROOM	20W CFL		2	20		40	$25.92	NO MEASURE		$ -	2	20	40	$25.92	4000	0	0	0	$ -	
139	1			MAIN OFFICE	2L F32T8 WRAP		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
140	1			MAIN OFFICE	2L F32T8 (2X4)		9	60		540	$349.92	2L F32T8 25W RELAMP		$ -	9	43	387	$250.78	4000	153	612	99.144	$ 99.14	
141	1			MAIN OFFICE	100W A		4	100		400	$259.20	20W CFL		$ -	4	20	80	$51.84	4000	320	1280	207.36	$ 207.36	
142	1			OFFICE 1	2L F32T8 (2X4)		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
143	1			OFFICE 2	2L F32T8 (2X4)		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
144	1			COPY ROOM	2L F32T8 WRAP		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
145	1			VAULT	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
146	1			ATHLETIC OFFICE 1	2L F32T8 WRAP		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	

LN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty.	Exist. Fix Wts.	Foot Candle	Total Fix Wts.	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl Qty.	Repl Fix Wts.	Total Fix Wts.	Proposed An. Cost	Opr. Hours	Fix Wts Saved	kWh Saved	0.15/kWh	Annual Elec. Savings	Annual Sens Savings
147	1			COPY	2L F32T8 WRAP		3	60		180	$116.64	2L F32T8 25W RELAMP		$ -	3	43	129	$83.59	4000	51	204	33.048	$ 33.05	
148	1			OFFICE 2	2L F32T8 WRAP		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
149	1			NURSE	2L F32T8 (2X4)		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
150	1			EXAM	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
151	1			BATHROOM	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
152	1		303	TECH ROOM	2L F32T8 (2X4)		11	60	25	660	$427.68	2L F32T8 25W RELAMP		$ -	11	43	473	$306.50	4000	187	748	121.176	$ 121.18	
153	1		303	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 91.05
154	1		304	TV MEDIA	2L F32T8 (2X4)		8	60		480	$311.04	2L F32T8 25W RELAMP		$ -	8	43	344	$222.91	4000	136	544	88.128	$ 88.13	
155	1		304	TV MEDIA	2L F17T8 (2X2)		2	37		74	$47.95	NO MEASURE		$ -	2	37	74	$47.95	4000	0	0	0	$ -	
156	1			SCHOOL STORE	2L F32T8 WRAP		1	60		60	$38.88	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	17	68	11.016	$ 11.02	
157	1		WC110	GIRLS ROOM	2L F32T8 (2X4)		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
158	1		WC113	FACULTY HALL	2L F32T8 (1X4)		1	60		60	$38.88	2L F32T8 25W RELAMP		$ -	1	43	43	$27.86	4000	17	68	11.016	$ 11.02	
159	1			FACULTY BATHROOM	4L F32T8 (2X4)		1	112		112	$72.58	4L F32T8 25W RELAMP		$ -	1	86	86	$55.73	4000	26	104	16.848	$ 16.85	
160	1			FACULTY LOUNGE	2L F32T8 (2X4)		3	60		180	$116.64	2L F32T8 25W RELAMP		$ -	3	43	129	$83.59	4000	51	204	33.048	$ 33.05	
161	1			FACULTY BATHROOM	4L F32T8 (2X4)		1	112		112	$72.58	4L F32T8 25W RELAMP		$ -	1	86	86	$55.73	4000	26	104	16.848	$ 16.85	
162	1		E101	ELECTRICAL	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
163	1		305	HOME EC	2L F32T8 WRAP		24	60	40	1440	$933.12	2L F32T8 25W RELAMP		$ -	24	43	1032	$668.74	4000	408	1632	264.384	$ 264.38	
164	1		306	CLASSROOM	2L F32T8 (2X4)		2	60	34	120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
165	1		306	CLASSROOM	3L F32T8 PARA (2X4)		9	88		792	$513.22	3L F32T8 25W RELAMP		$ -	9	66	594	$384.91	4000	198	792	128.304	$ 128.30	
166	1		307	MATH OFFICE	2L F32T8 WRAP		15	60	36	900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
167	1		308	CLASSROOM	3L F32T8 PARA (2X4)		12	88	47	1056	$684.29	3L F32T8 25W RELAMP		$ -	12	66	792	$513.22	4000	264	1056	171.072	$ 171.07	
168	1		308	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 153.90
169	1			HALL	2L F32T8 (2X4)		17	60		1020	$660.96	2L F32T8 25W RELAMP		$ -	17	43	731	$473.69	4000	289	1156	187.272	$ 187.27	
170	1			LIBRARY/ MEDIA CENTER	2L F32T8 WRAP		21	60		1260	$816.48	2L F32T8 25W RELAMP		$ -	21	43	903	$585.14	4000	357	1428	231.336	$ 231.34	
171	1			LIBRARY/ MEDIA CENTER	2L 40W BIAX (2X2)		39	80		3120	$2,021.76	NO MEASURE		$ -	39	80	3120	$2,021.76	4000	0	0	0	$ -	
172	1			LIBRARY/ MEDIA CENTER	1L F32T8 WRAP		9	30		270	$174.96	1L F32T8 25W RELAMP		$ -	9	22	198	$128.30	4000	72	288	46.656	$ 46.66	
173	1			LIBRARY OFFICE	2L 40W BIAX (2X2)		4	80		320	$207.36	NO MEASURE		$ -	4	80	320	$207.36	4000	0	0	0	$ -	
174	1		C104	CUSTODIAL	20W CFL		1	20		20	$12.96	NO MEASURE		$ -	1	20	20	$12.96	4000	0	0	0	$ -	
175	1		C104	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.89
176	1		WC108	BOYS	2L F17T8 (2X2)		3	37		111	$71.93	NO MEASURE		$ -	3	37	111	$71.93	4000	0	0	0	$ -	
177	1		104	BUSINESS OFFICE	2L F32T8 WRAP		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
178	1		104	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 33.44
179	1		105	OFFICE	2L F32T8 WRAP		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
180	1		105	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 33.44
181	1		106	ENGLISH OFFICE	2L F32T8 WRAP		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
182	1		106	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 33.44
183	1		107	OFFICE	2L F32T8 WRAP		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
184	1		107	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 33.44
185	1		108	WORLD LANGUAGE OFFI	2L F32T8 WRAP		6	60		360	$233.28	2L F32T8 25W RELAMP		$ -	6	43	258	$167.18	4000	102	408	66.096	$ 66.10	
186	1		108	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 50.16
187	1		WC109	BOYS	2L F17T8 (2X2)		1	37		37	$23.98	NO MEASURE		$ -	1	37	37	$23.98	4000	0	0	0	$ -	
188	1		WC109	BOYS	4L F34T12 (2X4)		1	160		160	$103.68	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$55.73	4000	74	296	47.952	$ 47.95	
189	1		C105	CUSTODIAL	20W CFL		1	20		20	$12.96	NO MEASURE		$ -	1	20	20	$12.96	4000	0	0	0	$ -	
190	1		C103	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.89
191	1		E103	ELECTRICAL	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
192	1		412	CHEMISTRY	2L F32T8 (2X4)		14	60	47	840	$544.32	2L F32T8 25W RELAMP		$ -	14	43	602	$390.10	4000	238	952	154.224	$ 154.22	
193	1		412	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 117.03
194	1		413	CLASSROOM	2L F32T8 (2X4)		9	60		540	$349.92	2L F32T8 25W RELAMP		$ -	9	43	387	$250.78	4000	153	612	99.144	$ 99.14	
195	1		413	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 75.23
196	1		415	CLASSROOM	2L F32T8 WRAP		15	60	51	900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
197	1		415	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
198	1		417	CLASSROOM	2L F32T8 WRAP		17	60		1020	$660.96	2L F32T8 25W RELAMP		$ -	17	43	731	$473.69	4000	289	1156	187.272	$ 187.27	
199	1		417	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 142.11
200	1		416	CLASSROOM	2L F32T8 (2X4)		11	60		660	$427.68	2L F32T8 25W RELAMP		$ -	11	43	473	$306.50	4000	187	748	121.176	$ 121.18	
201	1		414	CLASSROOM	2L F32T8 (2X4)		12	60	41	720	$466.56	2L F32T8 25W RELAMP		$ -	12	43	516	$334.37	4000	204	816	132.192	$ 132.19	
202	1		414	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 100.31
203	1			HALL	2L F32T8 (2X4)		18	60		1080	$699.84	2L F32T8 25W RELAMP		$ -	18	43	774	$501.55	4000	306	1224	198.288	$ 198.29	
204	1		411	SCIENCE LAB	2L F32T8 (2X4)		18	60	32	1080	$699.84	2L F32T8 25W RELAMP		$ -	18	43	774	$501.55	4000	306	1224	198.288	$ 198.29	
205	1		411	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 150.47
206	1		409	PREP ROOM	2L F32T8 (2X4)		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
207	1		409A	OFFICE	2L F32T8 (2X4)		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
208	1		407	SCIENCE CLASSROOM	2L F32T8 (2X4)		18	60		1080	$699.84	2L F32T8 25W RELAMP		$ -	18	43	774	$501.55	4000	306	1224	198.288	$ 198.29	
209	1		407	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 150.47
210	1		403A	PREP ROOM	2L F32T8 (2X4)		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
211	1		403	CLASSROOM	2L F32T8 (2X4)		11	60	20	660	$427.68	2L F32T8 25W RELAMP		$ -	11	43	473	$306.50	4000	187	748	121.176	$ 121.18	
212	1		403	CLASSROOM	2L F17T8 (2X2)		2	37		74	$47.95	NO MEASURE		$ -	2	37	74	$47.95	4000	0	0	0	$ -	
213	1		403	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 14.39
214	1		403B	ROOM	2L F32T8 (2X4)		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
215	1		404	CLASSROOM	2L F32T8 (2X4)		23	60	46	1380	$894.24	2L F32T8 25W RELAMP		$ -	23	43	989	$640.87	4000	391	1564	253.368	$ 253.37	
216	1		404	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 192.26
217	1		408A	STORAGE	2L F32T8 (2X4)		4	60		240	$155.52	2L F32T8 25W RELAMP		$ -	4	43	172	$111.46	4000	68	272	44.064	$ 44.06	
218	1		410	SCIENCE BIO	2L F32T8 (2X4)		15	60	35	900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
219	1		410	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
220	1		410	BIO OFFICE	2L F32T8 (2X4)		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
221	1		410	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 16.72
222	1		WC111	BATHROOM	2L F32T8 (2X4)		3	60		180	$116.64	2L F32T8 25W RELAMP		$ -	3	43	129	$83.59	4000	51	204	33.048	$ 33.05	
223	1			HALL	4L F32T8 (2X4)		17	112		1904	$1,233.79	4L F32T8 25W RELAMP		$ -	17	86	1462	$947.38	4000	442	1768	286.416	$ 286.42	
224	1		S103	BOOK STORAGE	100W A		2	100		200	$129.60	20W CFL		$ -	2	20	40	$25.92	4000	160	640	103.68	$ 103.68	

LN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist Qty	Exist Fix Wts	Foot Candle	Total Fix Wts	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl Qty	Repl Fix Wts	Total Fix Wts	Proposed An. Cost	Opr Hours	Fix Wts Saved	kWh Saved	0.15/kWh	Annual Elec Savings	Annual Sens Savings
225	1		S103	BOOK STORAGE	20W CFL		1	20		20	$12.96	NO MEASURE		$ -	1	20	20	$12.96	4000	0	0	0	$ -	
226	1			HALL	1L F32T8 WRAP		8	30		240	$155.52	1L F32T8 25W RELAMP		$ -	8	22	176	$114.05	4000	64	256	41.472	$ 41.47	
227	1		517	SOCIAL STUDIES	2L F32T8 WRAP		12	60	32	720	$466.56	2L F32T8 25W RELAMP		$ -	12	43	516	$334.37	4000	204	816	132.192	$ 132.19	
228	1		517	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 100.31
229	1		519	BOOKS	2L F32T8 WRAP		12	60		720	$466.56	2L F32T8 25W RELAMP		$ -	12	43	516	$334.37	4000	204	816	132.192	$ 132.19	
230	1		519	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 100.31
231	1		521	CLASSROOM	2L F32T8 WRAP		12	60	35	720	$466.56	2L F32T8 25W RELAMP		$ -	12	43	516	$334.37	4000	204	816	132.192	$ 132.19	
232	1		521	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 100.31
233	1		523	CLASSROOM	2L F32T8 WRAP		12	60		720	$466.56	2L F32T8 25W RELAMP		$ -	12	43	516	$334.37	4000	204	816	132.192	$ 132.19	
234	1		523	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 100.31
235	1		520	CLASSROOM	2L F32T8 WRAP		15	60	31	900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
236	1		520	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
237	1		518	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
238	1		518	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
239	1		516	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
240	1		516	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
241	1		514	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
242	1		514	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
243	1		515	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
244	1		515	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
245	1		512	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
246	1		512	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
247	1		513	CLASSROOM	2L F32T8 WRAP		15	60	32	900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
248	1		513	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
249	1		511	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
250	1		511	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
251	1		508	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
252	1		508	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
253	1		509	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
254	1		509	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
255	1		506	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
256	1		506	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
257	1		507	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
258	1		507	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
259	1		WC117	GIRLS	2L F32T8 WRAP		5	60		300	$194.40	2L F32T8 25W RELAMP		$ -	5	43	215	$139.32	4000	85	340	55.08	$ 55.08	
260	1		C107	CUSTODIAL	100W A		1	100		100	$64.80	20W CFL		$ -	1	20	20	$12.96	4000	80	320	51.84	$ 51.84	
261	1		505	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
262	1		505	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
263	1		504	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
264	1		504	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
265	1			HALL	2L F17T8 (2X2)		2	37		74	$47.95	NO MEASURE		$ -	2	37	74	$47.95	4000	0	0	0	$ -	
266	1			HALL	2L F32T8 (2X4)		2	60		120	$77.76	2L F32T8 25W RELAMP		$ -	2	43	86	$55.73	4000	34	136	22.032	$ 22.03	
267	1			HALL	1L F32T8 WRAP		16	30		480	$311.04	1L F32T8 25W RELAMP		$ -	16	22	352	$228.10	4000	128	512	82.944	$ 82.94	
268	1		WC116	BOYS	2L F32T8 WRAP		5	60		300	$194.40	2L F32T8 25W RELAMP		$ -	5	43	215	$139.32	4000	85	340	55.08	$ 55.08	
269	1		E104	MECHANICAL	100W A		4	100		400	$259.20	20W CFL		$ -	4	20	80	$51.84	4000	320	1280	207.36	$ 207.36	
270	1		503	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
271	1		503	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
272	1		502	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
273	1		502	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
274	1		501	CLASSROOM	2L F32T8 WRAP		15	60		900	$583.20	2L F32T8 25W RELAMP		$ -	15	43	645	$417.96	4000	255	1020	165.24	$ 165.24	
275	1		501	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 125.39
276	1		402	VOCAL MUSIC	2L F54T5 INDIRECT		16	117		1872	$1,213.06	NO MEASURE		$ -	16	117	1872	$1,213.06	4000	0	0	0	$ -	
277	1		402	VOCAL MUSIC	2L 40W BIAX (2X2)		2	80		160	$103.68	NO MEASURE		$ -	2	80	160	$103.68	4000	0	0	0	$ -	
278	1		402	FILES	4L F32T8 (2X4)		1	112		112	$72.58	4L F32T8 25W RELAMP		$ -	1	86	86	$55.73	4000	26	104	16.848	$ 16.85	
279	1		402	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 16.72
280	1		402	STORAGE	4L F32T8 (2X4)		1	112		112	$72.58	4L F32T8 25W RELAMP		$ -	1	86	86	$55.73	4000	26	104	16.848	$ 16.85	
281	1		402	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 16.72
282	1		401	BAND	2L F54T5 INDIRECT		28	117		3276	$2,122.85	NO MEASURE		$ -	28	117	3276	$2,122.85	4000	0	0	0	$ -	
283	1			ROOMS	4L F32T8 (2X4)		4	112		448	$290.30	4L F32T8 25W RELAMP		$ -	4	86	344	$222.91	4000	104	416	67.392	$ 67.39	
284	1			MUSIC HALL	1L F32T8 WRAP		4	30		120	$77.76	1L F32T8 25W RELAMP		$ -	4	22	88	$57.02	4000	32	128	20.736	$ 20.74	
285	1			MUSIC HALL	2L FB32T8 U6 (2X2)		1	60		60	$38.88	2L F17T8 17W RELAMP/REBALLAST/REFL KIT (2X		$ -	1	37	37	$23.98	4000	23	92	14.904	$ 14.90	
286	1			AUDITORIUM	2L PL7W SCONCES		26	14		364	$235.87	NO MEASURE		$ -	26	14	364	$235.87	4000	0	0	0	$ -	
287	1			HALL	4L F32T8 WRAP		25	112		2800	$1,814.40	4L F32T8 25W RELAMP		$ -	25	86	2150	$1,393.20	4000	650	2600	421.2	$ 421.20	
288	1			STORAGE	20W CFL		4	20		80	$51.84	NO MEASURE		$ -	4	20	80	$51.84	4000	0	0	0	$ -	
289	1			CAFETERIA	2L F32T8 (2X4)		28	60		1680	$1,088.64	2L F32T8 25W RELAMP		$ -	28	43	1204	$780.19	4000	476	1904	308.448	$ 308.45	
290	1			CAFETERIA	2L F17T8 (2X2)		12	37		444	$287.71	NO MEASURE		$ -	12	37	444	$287.71	4000	0	0	0	$ -	
										122,520	$79,392.96			$ 8,225.00					KW SAVED >>>>	32.93	131716	21337.99	$ 21,337.99	$ 5,569.95

Electric Rate: $0.162

89591 $58,054.9680

Total Cost Savings $ 26,907.94

Total kWh Savings 166,098.40

Name:	PEQUANNOCK TOWNSHIP- HIGH SCHOOL
Address:	538 Newark Pompton Turnpike
City, St.	Pompton Plains, NJ 07444
Contact:	Steven DiGeronimo
Phone:	973-616-6030

	LN #	FL #	Replacement Fixture Description	Repl Qty.	qty fix.	Fixture / Ballast	cost fix.	qty lmp.	Lamp / Sensor	cost lmp.	qty ref.	Reflector / PowerPack	cost ref.	Ballast/Fix. Cost Total	Lamp Cost Total	REFLECT. Cost Total	Material Sell Total	NON UNION Labor Cost	NON UNION Labor Tot. Cost
	1	1	2L F32T8 25W RELAMP	9	9		$ -	18	F32T8 25W LAMP	$ 3.00	9		$ -	$ -	$ 54.00	$ -	$ 70.20	$ 12.00	$ 108.00
	2	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
	3	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
	4	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	5	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
	6	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
	7	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	8	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	9	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
	10	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	11	1	6L T5HO ELB/HBF HIGH BAY FIXTURE	20	20	6L T5HO HIGH BAY FIXTUR	$200.00	60		$ -	20		$ -	$ 4,000.00	$ -	$ -	$ 5,200.00	$ 75.00	$ 1,500.00
	12	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
	13	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	14	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	15	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	16	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
	17	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	18	1	2L F32T8 25W RELAMP	11	11		$ -	22	F32T8 25W LAMP	$ 3.00	11		$ -	$ -	$ 66.00	$ -	$ 85.80	$ 12.00	$ 132.00
	19	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
	20	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
	21	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
	22	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	23	1	2L F32T8 25W RELAMP	6	6		$ -	12	F32T8 25W LAMP	$ 3.00	6		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 72.00
	24	1	4L F32T8 25W RELAMP	1	1		$ -	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 12.00
	25	1	6L T5HO ELB/HBF HIGH BAY FIXTURE	39	39	6L T5HO HIGH BAY FIXTUR	$200.00	117		$ -	39		$ -	$ 7,800.00	$ -	$ -	$ 10,140.00	$ 75.00	$ 2,925.00
	26	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
	27	1	2L F32T8 25W RELAMP	10	10		$ -	20	F32T8 25W LAMP	$ 3.00	10		$ -	$ -	$ 60.00	$ -	$ 78.00	$ 12.00	$ 120.00
	28	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
	29	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
	30	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	32	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	33	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	34	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
	35	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
	36	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	37	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
	38	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
	39	1	2L F32T8 25W RELAMP	5	5		$ -	10	F32T8 25W LAMP	$ 3.00	5		$ -	$ -	$ 30.00	$ -	$ 39.00	$ 12.00	$ 60.00
	40	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
	41	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	42	1	20W CFL	6	6		$ -	6	20W CFL	$ 10.00	6		$ -	$ -	$ 60.00	$ -	$ 78.00	$ 10.00	$ 60.00
	43	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	44	1	3L F32T8 25W RELAMP/REBALLAST	4	4	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	4		$ -	$ 60.00	$ 36.00	$ -	$ 124.80	$ 25.00	$ 100.00
	45	1	4L F32T8 25W RELAMP	2	2		$ -	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 24.00
	46	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
	47	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
	48	1	NO MEASURE	12	12		$ -	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 72.00	$ -	$ 93.60	$ 12.00	$ 144.00
	49	1	2L F32T8 25W RELAMP	20	20		$ -	40	F32T8 25W LAMP	$ 3.00	20		$ -	$ -	$ 120.00	$ -	$ 156.00	$ 12.00	$ 240.00
	50	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
	51	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	52	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
	53	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	54	1	2L F32T8 25W RELAMP	28	28		$ -	56	F32T8 25W LAMP	$ 3.00	28		$ -	$ -	$ 168.00	$ -	$ 218.40	$ 12.00	$ 336.00
	55	1	2L F32T8 25W RELAMP	8	8		$ -	16	F32T8 25W LAMP	$ 3.00	8		$ -	$ -	$ 48.00	$ -	$ 62.40	$ 12.00	$ 96.00
	56	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
	57	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	58	1	20W CFL	2	2		$ -	2	20W CFL	$ 10.00	2		$ -	$ -	$ 20.00	$ -	$ 26.00	$ 10.00	$ 20.00
	59	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	60	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
	61	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
	62	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
	63	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
	64	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
	65	1	4L F32T8 25W RELAMP	3	3		$ -	12	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 36.00
	66	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	67	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
	68	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00

EN #	FL #	Replacement Fixture Description	Repl Qty	qty fxt	Fixture / Ballast	cost fix	qty lmp	Lamp / Sensor	cost lmp	qty ref	Reflector / PowerPack	cost ref	Ballast/Fix Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	Labor Cost	Labor Tot. Cost
69	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
70	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
71	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
72	1	4L F32T8 25W RELAMP	18	18		$ -	72	F32T8 25W LAMP	$ 3.00	18		$ -	$ -	$ 216.00	$ -	$ 280.80	$ 12.00	$ 216.00
73	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
74	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
75	1	4L F32T8 25W RELAMP	9	9		$ -	36	F32T8 25W LAMP	$ 3.00	9		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 108.00
76	1	4L F32T8 25W RELAMP	2	2		$ -	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 24.00
77	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
78	1	20W CFL	4	4		$ -	4	20W CFL	$ 10.00	4		$ -	$ -	$ 40.00	$ -	$ 52.00	$ 10.00	$ 40.00
79	1	1L F32T8 25W RELAMP	3	3		$ -	3	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 9.00	$ -	$ 11.70	$ 12.00	$ 36.00
80	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
81	1	2L F32T8 25W RELAMP	10	10		$ -	20	F32T8 25W LAMP	$ 3.00	10		$ -	$ -	$ 60.00	$ -	$ 78.00	$ 12.00	$ 120.00
82	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
83	1	2L F32T8 25W RELAMP	6	6		$ -	12	F32T8 25W LAMP	$ 3.00	6		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 72.00
84	1	4L F32T8 25W RELAMP	4	4		$ -	16	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 48.00	$ -	$ 62.40	$ 12.00	$ 48.00
85	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
86	1	2L F32T8 25W RELAMP	18	18		$ -	36	F32T8 25W LAMP	$ 3.00	18		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 216.00
87	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
88	1	20W CFL	3	3		$ -	3	20W CFL	$ 10.00	3		$ -	$ -	$ 30.00	$ -	$ 39.00	$ 10.00	$ 30.00
89	1	4L F32T8 25W RELAMP	1	1		$ -	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 12.00
90	1	4L F32T8 25W RELAMP/REBALLAST	3	3	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	3		$ -	$ 45.00	$ 36.00	$ -	$ 105.30	$ 25.00	$ 75.00
91	1	2L F32T8 25W RELAMP	12	12		$ -	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 72.00	$ -	$ 93.60	$ 12.00	$ 144.00
92	1	2L F32T8 25W RELAMP	36	36		$ -	72	F32T8 25W LAMP	$ 3.00	36		$ -	$ -	$ 216.00	$ -	$ 280.80	$ 12.00	$ 432.00
93	1	1L F32T8 25W RELAMP	3	3		$ -	3	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 9.00	$ -	$ 11.70	$ 12.00	$ 36.00
94	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
95	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
96	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
97	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
98	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
99	1	20W CFL	4	4		$ -	4	20W CFL	$ 10.00	4		$ -	$ -	$ 40.00	$ -	$ 52.00	$ 10.00	$ 40.00
100	1	NO MEASURE	3	3		$ -	3		$ -	3		$ -	$ -	$ -	$ -	$ -	$ -	$ -
101	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
102	1	20W CFL	10	10		$ -	10	20W CFL	$ 10.00	10		$ -	$ -	$ 100.00	$ -	$ 130.00	$ 10.00	$ 100.00
103	1	2L F32T8 25W RELAMP	22	22		$ -	44	F32T8 25W LAMP	$ 3.00	22		$ -	$ -	$ 132.00	$ -	$ 171.60	$ 12.00	$ 264.00
104	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
105	1	2L F32T8 25W RELAMP	20	20		$ -	40	F32T8 25W LAMP	$ 3.00	20		$ -	$ -	$ 120.00	$ -	$ 156.00	$ 12.00	$ 240.00
106	1	4L F32T8 25W RELAMP	2	2		$ -	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 24.00
107	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
108	1	4L F32T8 25W RELAMP	2	2		$ -	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 24.00
109	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
110	1	4L F32T8 25W RELAMP	2	2		$ -	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 24.00
111	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
112	1	4L F32T8 25W RELAMP	2	2		$ -	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 24.00
113	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
114	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
115	1	4L F32T8 25W RELAMP	1	1		$ -	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 12.00
116	1	NO MEASURE	6	6		$ -	6		$ -	6		$ -	$ -	$ -	$ -	$ -	$ -	$ -
117	1	4L F32T8 25W RELAMP	2	2		$ -	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 24.00
118	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
119	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
120	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
121	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
122	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
123	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
124	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
125	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
126	1	4L F32T8 25W RELAMP	3	3		$ -	12	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 36.00
127	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
128	1	4L F32T8 25W RELAMP	3	3		$ -	12	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 36.00
129	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
130	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
131	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
132	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
133	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
134	1	2L F32T8 25W RELAMP	9	9		$ -	18	F32T8 25W LAMP	$ 3.00	9		$ -	$ -	$ 54.00	$ -	$ 70.20	$ 12.00	$ 108.00
135	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
136	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
137	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
138	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
139	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
140	1	2L F32T8 25W RELAMP	9	9		$ -	18	F32T8 25W LAMP	$ 3.00	9		$ -	$ -	$ 54.00	$ -	$ 70.20	$ 12.00	$ 108.00
141	1	20W CFL	4	4		$ -	4	20W CFL	$ 10.00	4		$ -	$ -	$ 40.00	$ -	$ 52.00	$ 10.00	$ 40.00
142	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
143	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
144	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
145	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
146	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00

LN #	FL #	Replacement Fixture Description	Repl Qty	qty fixt	Fixture / Ballast	cost fix	qty imp	Lamp / Sensor	cost imp	qty ref	Reflector / PowerPack	cost ref	Ballast/Fix Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	Labor Cost	Labor Tot. Cost
147	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
148	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
149	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
150	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
151	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
152	1	2L F32T8 25W RELAMP	11	11		$ -	22	F32T8 25W LAMP	$ 3.00	11		$ -	$ -	$ 66.00	$ -	$ 85.80	$ 12.00	$ 132.00
153	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
154	1	2L F32T8 25W RELAMP	8	8		$ -	16	F32T8 25W LAMP	$ 3.00	8		$ -	$ -	$ 48.00	$ -	$ 62.40	$ 12.00	$ 96.00
155	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
156	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
157	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
158	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
159	1	4L F32T8 25W RELAMP	1	1		$ -	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 12.00
160	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
161	1	4L F32T8 25W RELAMP	1	1		$ -	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 12.00
162	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
163	1	2L F32T8 25W RELAMP	24	24		$ -	48	F32T8 25W LAMP	$ 3.00	24		$ -	$ -	$ 144.00	$ -	$ 187.20	$ 12.00	$ 288.00
164	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
165	1	3L F32T8 25W RELAMP	9	9		$ -	27	F32T8 25W LAMP	$ 3.00	9		$ -	$ -	$ 81.00	$ -	$ 105.30	$ 12.00	$ 108.00
166	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
167	1	3L F32T8 25W RELAMP	12	12		$ -	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 144.00
168	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
169	1	2L F32T8 25W RELAMP	17	17		$ -	34	F32T8 25W LAMP	$ 3.00	17		$ -	$ -	$ 102.00	$ -	$ 132.60	$ 12.00	$ 204.00
170	1	2L F32T8 25W RELAMP	21	21		$ -	42	F32T8 25W LAMP	$ 3.00	21		$ -	$ -	$ 126.00	$ -	$ 163.80	$ 12.00	$ 252.00
171	1	NO MEASURE	39	39		$ -	39		$ -	39		$ -	$ -	$ -	$ -	$ -	$ -	$ -
172	1	1L F32T8 25W RELAMP	9	9		$ -	9	F32T8 25W LAMP	$ 3.00	9		$ -	$ -	$ 27.00	$ -	$ 35.10	$ 12.00	$ 108.00
173	1	NO MEASURE	4	4		$ -	4		$ -	4		$ -	$ -	$ -	$ -	$ -	$ -	$ -
174	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
175	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
176	1	NO MEASURE	3	3		$ -	3		$ -	3		$ -	$ -	$ -	$ -	$ -	$ -	$ -
177	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
178	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
179	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
180	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
181	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
182	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
183	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
184	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
185	1	2L F32T8 25W RELAMP	6	6		$ -	12	F32T8 25W LAMP	$ 3.00	6		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 72.00
186	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
187	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
188	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
189	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
190	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
191	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
192	1	2L F32T8 25W RELAMP	14	14		$ -	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ -	$ 84.00	$ -	$ 109.20	$ 12.00	$ 168.00
193	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
194	1	2L F32T8 25W RELAMP	9	9		$ -	18	F32T8 25W LAMP	$ 3.00	9		$ -	$ -	$ 54.00	$ -	$ 70.20	$ 12.00	$ 108.00
195	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
196	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
197	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
198	1	2L F32T8 25W RELAMP	17	17		$ -	34	F32T8 25W LAMP	$ 3.00	17		$ -	$ -	$ 102.00	$ -	$ 132.60	$ 12.00	$ 204.00
199	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
200	1	2L F32T8 25W RELAMP	11	11		$ -	22	F32T8 25W LAMP	$ 3.00	11		$ -	$ -	$ 66.00	$ -	$ 85.80	$ 12.00	$ 132.00
201	1	2L F32T8 25W RELAMP	12	12		$ -	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 72.00	$ -	$ 93.60	$ 12.00	$ 144.00
202	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
203	1	2L F32T8 25W RELAMP	18	18		$ -	36	F32T8 25W LAMP	$ 3.00	18		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 216.00
204	1	2L F32T8 25W RELAMP	18	18		$ -	36	F32T8 25W LAMP	$ 3.00	18		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 216.00
205	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
206	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
207	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
208	1	2L F32T8 25W RELAMP	18	18		$ -	36	F32T8 25W LAMP	$ 3.00	18		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 216.00
209	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
210	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
211	1	2L F32T8 25W RELAMP	11	11		$ -	22	F32T8 25W LAMP	$ 3.00	11		$ -	$ -	$ 66.00	$ -	$ 85.80	$ 12.00	$ 132.00
212	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
213	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
214	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
215	1	2L F32T8 25W RELAMP	23	23		$ -	46	F32T8 25W LAMP	$ 3.00	23		$ -	$ -	$ 138.00	$ -	$ 179.40	$ 12.00	$ 276.00
216	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
217	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
218	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
219	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
220	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
221	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
222	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
223	1	4L F32T8 25W RELAMP	17	17		$ -	68	F32T8 25W LAMP	$ 3.00	17		$ -	$ -	$ 204.00	$ -	$ 265.20	$ 12.00	$ 204.00
224	1	20W CFL	2	2		$ -	2	20W CFL	$ 10.00	2		$ -	$ -	$ 20.00	$ -	$ 26.00	$ 10.00	$ 20.00

LN #	FL #	Replacement Fixture Description	Repl Qty	qty fxt	Fixture / Ballast	cost fix	qty lmp	Lamp / Sensor	cost lmp	qty ref	Reflector / PowerPack	cost ref	Ballast/Fix Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	Labor Cost	Labor Tot Cost
225	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
226	1	1L F32T8 25W RELAMP	8	8		$ -	8	F32T8 25W LAMP	$ 3.00	8		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 96.00
227	1	2L F32T8 25W RELAMP	12	12		$ -	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 72.00	$ -	$ 93.60	$ 12.00	$ 144.00
228	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
229	1	2L F32T8 25W RELAMP	12	12		$ -	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 72.00	$ -	$ 93.60	$ 12.00	$ 144.00
230	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
231	1	2L F32T8 25W RELAMP	12	12		$ -	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 72.00	$ -	$ 93.60	$ 12.00	$ 144.00
232	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
233	1	2L F32T8 25W RELAMP	12	12		$ -	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 72.00	$ -	$ 93.60	$ 12.00	$ 144.00
234	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
235	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
236	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
237	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
238	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
239	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
240	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
241	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
242	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
243	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
244	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
245	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
246	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
247	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
248	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
249	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
250	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
251	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
252	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
253	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
254	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
255	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
256	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
257	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
258	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
259	1	2L F32T8 25W RELAMP	5	5		$ -	10	F32T8 25W LAMP	$ 3.00	5		$ -	$ -	$ 30.00	$ -	$ 39.00	$ 12.00	$ 60.00
260	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
261	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
262	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
263	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
264	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
265	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
266	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
267	1	1L F32T8 25W RELAMP	16	16		$ -	16	F32T8 25W LAMP	$ 3.00	16		$ -	$ -	$ 48.00	$ -	$ 62.40	$ 12.00	$ 192.00
268	1	2L F32T8 25W RELAMP	5	5		$ -	10	F32T8 25W LAMP	$ 3.00	5		$ -	$ -	$ 30.00	$ -	$ 39.00	$ 12.00	$ 60.00
269	1	20W CFL	4	4		$ -	4	20W CFL	$ 10.00	4		$ -	$ -	$ 40.00	$ -	$ 52.00	$ 10.00	$ 40.00
270	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
271	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
272	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
273	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
274	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
275	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
276	1	NO MEASURE	16	16		$ -	32		$ -	16		$ -	$ -	$ -	$ -	$ -	$ -	$ -
277	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
278	1	4L F32T8 25W RELAMP	1	1		$ -	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 12.00
279	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
280	1	4L F32T8 25W RELAMP	1	1		$ -	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 12.00
281	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
282	1	NO MEASURE	28	28		$ -	56		$ -	28		$ -	$ -	$ -	$ -	$ -	$ -	$ -
283	1	4L F32T8 25W RELAMP	4	4		$ -	16	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 48.00	$ -	$ 62.40	$ 12.00	$ 48.00
284	1	1L F32T8 25W RELAMP	4	4		$ -	4	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 48.00
285	1	2L F17T8 17W RELAMP/REBALLAST/REFL KIT (2X2)	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F17T8 17W LAMP	$ 3.00	1	M4 REFLECTOR 2X2	$ 12.00	$ 12.00	$ 6.00	$ 12.00	$ 39.00	$ 35.00	$ 35.00
286	1	NO MEASURE	26	26		$ -	52	F32T8 25W LAMP	$ 3.00	26		$ -	$ -	$ 156.00	$ -	$ 202.80	$ 12.00	$ 312.00
287	1	4L F32T8 25W RELAMP	25	25		$ -	100	F32T8 25W LAMP	$ 3.00	25		$ -	$ -	$ 300.00	$ -	$ 390.00	$ 12.00	$ 300.00
288	1	NO MEASURE	4	4		$ -	4		$ -	4		$ -	$ -	$ -	$ -	$ -	$ -	$ -
289	1	2L F32T8 25W RELAMP	28	28		$ -	56	F32T8 25W LAMP	$ 3.00	28		$ -	$ -	$ 168.00	$ -	$ 218.40	$ 12.00	$ 336.00
290	1	NO MEASURE	12	12		$ -	12		$ -	12		$ -	$ -	$ -	$ -	$ -	$ -	$ -
													$ 11,947.00	$ 14,485.00	$ 1,517.00	$ 36,333.70	Total	$ 23,554.00
															With Tax	$ 38,877.06	CONT	$ -
																	Equipment	$ -
																	Total Labor:	$ 30,620.20
																	Total project	$ 69,497.26

NEW JERSEY SMART START REBATE	$ 8,225.00

LIGHTING INVENTORY SUMMARY
Pequannock Township Board of Education - Middle School
538 Newark Pompton Turnpike
Pompton Plains, NJ 07444

EXECUTIVE SUMMARY

ENERGY DATA

Existing Energy Usage (Watts)		124,258
Proposed Energy Usage (Watts)		73,486
Energy Saved (Watts)		50,772
Annual Kilowatt Hours Saved (kWh)		230,374

FINANCIAL DATA

Annual Existing Energy Cost	$	84,046.67
Annual Proposed Energy Cost	$	49,681.36
Annual Energy Savings	$	34,365.31
Additional Energy Savings (Occupancy Sensors)	$	4,567.87
Total Energy Savings	$	38,933.18
Initial Project Cost	$	82,076.06
Utility Rebate (Based on NJ Smart Start Approval)	$	17,815.00
Project Cost	$	64,261.06

CASH FLOW SUMMARY

Return On Investment (R.O.I.)		53%
Payback (Years)		1.87
10 Year Savings	$	343,653.12
10-Year Cumulative Positive Cash Flow	$	279,392.06

Pequannock Township Board of Education - Middle School
538 Newark Pompton Turnpike
Pompton Plains, NJ 07444

Steven DiGeronimo
973-616-6030

New Jersey

UTILITY ACCOUNT NUMBER	N/A
BUILDING TYPE	Educational
SQUARE FOOTAGE	84,200

EN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty.	Exist. Fix Wts.	Foot Candle	Total Fix Wts.	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl. Qty.	Repl. Fix Wts.	Total Fix Wts.	Proposed An. Cost	Opr. Hours	Fix Wts Saved	kWh Saved	0.16/kWh	Annual Elec Savings
1	1			MAIN OFFICE	3L F34T12 (2X4)		6	130		780	$527.28	3L F32T8 25W RELAMP/REBALLAST	20	$ 120.00	6	66	396	$267.70	4000	384	1536	259.584	$ 259.58
2	1			MAIN OFFICE	2L FB34T12 U6 (2X2)		1	80		80	$54.08	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	20	$ 20.00	1	37	37	$25.01	4000	43	172	29.068	$ 29.07
3	1			IT CLOSET	4L F34T12 (2X4)		1	160		160	$108.16	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.14	4000	74	296	50.024	$ 50.02
4	1			PRINCIPALS OFFICE	4L F34T12 (2X4)		1	160		160	$108.16	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.14	4000	74	296	50.024	$ 50.02
5	1			PRINCIPALS OFFICE	4L F32T8 (2X4)		1	112		112	$75.71	4L F32T8 25W RELAMP		$ -	1	86	86	$58.14	4000	26	104	17.576	$ 17.58
6	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
7	1			VICE PRINCIPALS OFFICE	4L F34T12 (2X4)		1	160		160	$108.16	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.14	4000	74	296	50.024	$ 50.02
8	1			VICE PRINCIPALS OFFICE	4L F32T8 (2X4)		1	112		112	$75.71	4L F32T8 25W RELAMP		$ -	1	86	86	$58.14	4000	26	104	17.576	$ 17.58
9	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
10	1			BATHROOM	15W CFL		1	15		15	$10.14	NO MEASURE		$ -	1	15	15	$10.14	4000	0	0	0	$ -
11	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
12	1		106	CLASSROOM	2L F34T12 WRAP		12	80	40	960	$648.96	2L F32T8 25W RELAMP/REBALLAST	10	$ 120.00	12	43	516	$348.82	4000	444	1776	300.144	$ 300.14
13	1		106	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
14	1		108	CLASSROOM	2L F34T12 WRAP		12	80	43	960	$648.96	2L F32T8 25W RELAMP/REBALLAST	10	$ 120.00	12	43	516	$348.82	4000	444	1776	300.144	$ 300.14
15	1		108	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
16	1		110	CLASSROOM	2L F34T12 WRAP		12	80	41	960	$648.96	2L F32T8 25W RELAMP/REBALLAST	10	$ 120.00	12	43	516	$348.82	4000	444	1776	300.144	$ 300.14
17	1		110	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
18	1			AV STORAGE	100W A		2	100		200	$135.20	20W CFL		$ -	2	20	40	$27.04	4000	160	640	108.16	$ 108.16
19	1		112	CLASSROOM	3L F34T12 (2X4)		18	130	33	2340	$1,581.84	3L F32T8 25W RELAMP/REBALLAST	20	$ 360.00	18	66	1188	$803.09	4000	1152	4608	778.752	$ 778.75
20	1		112	CLASSROOM	2L F34T12 ICE TRAY		2	80		160	$108.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.14	4000	74	296	50.024	$ 50.02
21	1		112	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
22	1		114	CLASSROOM	2L F34T12 WRAP		14	80	26	1120	$757.12	2L F32T8 25W RELAMP/REBALLAST	10	$ 140.00	14	43	602	$406.95	4000	518	2072	350.168	$ 350.17
23	1		119	CLASSROOM	2L F34T12 WRAP		14	80	37	1120	$757.12	2L F32T8 25W RELAMP/REBALLAST	10	$ 140.00	14	43	602	$406.95	4000	518	2072	350.168	$ 350.17
24	1		119	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
25	1		117	CLASSROOM	2L F34T12 WRAP		14	80	35	1120	$757.12	2L F32T8 25W RELAMP/REBALLAST	10	$ 140.00	14	43	602	$406.95	4000	518	2072	350.168	$ 350.17
26	1		117	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
27	1		115	CLASSROOM	2L F34T12 WRAP		14	80	44	1120	$757.12	2L F32T8 25W RELAMP/REBALLAST	10	$ 140.00	14	43	602	$406.95	4000	518	2072	350.168	$ 350.17
28	1		115	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
29	1		113	CLASSROOM	2L F34T12 WRAP		14	80	47	1120	$757.12	2L F32T8 25W RELAMP/REBALLAST	10	$ 140.00	14	43	602	$406.95	4000	518	2072	350.168	$ 350.17
30	1		113	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
31	1			GIRLS BATHROOM	4L F34T12 (2X4)		2	160		320	$216.32	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.27	4000	148	592	100.048	$ 100.05
32	1			CUSTODIAN	15W CFL		1	15		15	$10.14	NO MEASURE		$ -	1	15	15	$10.14	4000	0	0	0	$ -
33	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
34	1			MEDIA CENTER	3L F34T12 (2X4)		38	130		4940	$3,339.44	3L F32T8 25W RELAMP/REBALLAST	20	$ 760.00	38	66	2508	$1,695.41	4000	2432	9728	1644.032	$ 1,644.03
35	1			MEDIA OFFICE	3L F34T12 (2X4)		4	130		520	$351.52	3L F32T8 25W RELAMP/REBALLAST	20	$ 80.00	4	66	264	$178.46	4000	256	1024	173.056	$ 173.06
36	1			MEDIA SINK	2L F34T12 WRAP		2	80		160	$108.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.14	4000	74	296	50.024	$ 50.02
37	1			TEACHERS ROOM	4L F34T12 (2X4)		9	160		1440	$973.44	4L F32T8 25W RELAMP/REBALLAST	20	$ 180.00	9	86	774	$523.22	4000	666	2664	450.216	$ 450.22
38	1			TEACHERS ROOM	EXIT 30W		2	30		60	$88.83	NEW LED EXIT SIGN	20	$ 40.00	2	3	6	$8.88	8760	54	473.04	79.94376	$ 79.94
39	1			ELECTRICAL PANELS	15W CFL		1	15		15	$10.14	NO MEASURE		$ -	1	15	15	$10.14	4000	0	0	0	$ -
40	1			MENS FACULTY	2L F34T12 WRAP		2	80		160	$108.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.14	4000	74	296	50.024	$ 50.02
41	1			WOMENS FACULTY	2L F34T12 WRAP		2	80		160	$108.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.14	4000	74	296	50.024	$ 50.02
42	1		124	CLASSROOM	3L F34T12 (2X4)		12	130		1560	$1,054.56	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$535.39	4000	768	3072	519.168	$ 519.17
43	1		124	CLASSROOM	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
44	1		124	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
45	1		126	CLASSROOM	3L F34T12 (2X4)		12	130		1560	$1,054.56	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$535.39	4000	768	3072	519.168	$ 519.17
46	1		126	CLASSROOM	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
47	1		126	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
48	1		128	CLASSROOM	3L F34T12 (2X4)		12	130	38	1560	$1,054.56	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$535.39	4000	768	3072	519.168	$ 519.17
49	1		128	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
50	1			BOYS BATHROOM	4L F34T12 (2X4)		2	160		320	$216.32	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.27	4000	148	592	100.048	$ 100.05
51	1			SPEECH	4L F34T12 WRAP		3	160		480	$324.48	4L F32T8 25W RELAMP/REBALLAST	20	$ 60.00	3	86	258	$174.41	4000	222	888	150.072	$ 150.07
52	1			CUSTODIAN	15W CFL		1	15		15	$10.14	NO MEASURE		$ -	1	15	15	$10.14	4000	0	0	0	$ -
53	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
54	1		130	CLASSROOM	3L F34T12 (2X4)		11	130		1430	$966.68	3L F32T8 25W RELAMP/REBALLAST	20	$ 220.00	11	66	726	$490.78	4000	704	2816	475.904	$ 475.90
55	1		130	BATHROOM	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
56	1		130	BATHROOM	2L F34T12 (2X4)		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
57	1		130	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
58	1		131	CLASSROOM	3L F34T12 (2X4)		12	130		1560	$1,054.56	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$535.39	4000	768	3072	519.168	$ 519.17
59	1		131	CLASSROOM	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
60	1		129	CLASSROOM	3L F34T12 (2X4)		12	130	43	1560	$1,054.56	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$535.39	4000	768	3072	519.168	$ 519.17
61	1		129	CLASSROOM	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
62	1		129	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
63	1		127	CLASSROOM	3L F34T12 (2X4)		12	130		1560	$1,054.56	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$535.39	4000	768	3072	519.168	$ 519.17
64	1		127	CLASSROOM	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
65	1		127	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
66	1		125	CLASSROOM	3L F34T12 (2X4)		12	130		1560	$1,054.56	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$535.39	4000	768	3072	519.168	$ 519.17
67	1		125	CLASSROOM	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08

LN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty.	Exist. Fix Wts.	Foot Candle	Total Fix Wts.	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl. Qty.	Repl. Fix Wts.	Total Fix Wts.	Proposed An. Cost	Opr. Hours	Fix Wts Saved	kWh Saved	0.15/kWh	Annual Elec. Savings
68	1		125	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
69	1			NURSE	2L F34T12 WRAP		9	80		720	$486.72	2L F32T8 25W RELAMP/REBALLAST	10	$ 90.00	9	43	387	$261.61	4000	333	1332	225.108	$ 225.11
70	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
71	1			EXAM 1	4L F34T12 WRAP		2	160		320	$216.32	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.27	4000	148	592	100.048	$ 100.05
72	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
73	1			EXAM 2	4L F34T12 WRAP		2	160		320	$216.32	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.27	4000	148	592	100.048	$ 100.05
74	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
75	1			CLOSET	2L FB34T12 U6 (2X2)		1	80		80	$54.08	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	20	$ 20.00	1	37	37	$25.01	4000	43	172	29.068	$ 29.07
76	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
77	1			BATHROOM	2L F34T12 WRAP		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
78	1			MENS BATHROOM	2L F34T12 WRAP		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
79	1			CHAIR STORAGE	2L F34T12 WRAP		7	80		560	$378.56	2L F32T8 25W RELAMP/REBALLAST	10	$ 70.00	7	43	301	$203.48	4000	259	1036	175.084	$ 175.08
80	1			CUSTODIAN LOUNGE	4L F34T12 (2X4)		4	160		640	$432.64	4L F32T8 25W RELAMP/REBALLAST	20	$ 80.00	4	86	344	$232.54	4000	296	1184	200.096	$ 200.10
81	1			ALARM ROOM	4L F34T12 WRAP		1	160		160	$108.16	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.14	4000	74	296	50.024	$ 50.02
82	1			BOILER ROOM	1L F34T12 STRIP		6	50		300	$202.80	1L F32T8 25W RELAMP/REBALLAST	10	$ 60.00	6	22	132	$89.23	4000	168	672	113.568	$ 113.57
83	1			BOILER ROOM	20W CFL		2	20		40	$27.04	NO MEASURE		$ -	2	20	40	$27.04	4000	0	0	0	$ -
84	1			BOYS BATHROOM	4L F34T12 WRAP		2	160		320	$216.32	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.27	4000	148	592	100.048	$ 100.05
85	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
86	1			CUSTODIAL	20W CFL		1	20		20	$13.52	NO MEASURE		$ -	1	20	20	$13.52	4000	0	0	0	$ -
87	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
88	1			STORAGE	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
89	1			CONFERENCE ROOM	3L F32T8 (2X4)		4	88		352	$237.95	3L F32T8 25W RELAMP		$ -	4	66	264	$178.46	4000	88	352	59.488	$ 59.49
90	1			SUSPENSION	3L F32T8 (2X4)		2	88		176	$118.98	3L F32T8 25W RELAMP		$ -	2	66	132	$89.23	4000	44	176	29.744	$ 29.74
91	1			GUIDANCE OPEN AREA	4L F34T12 (2X4)		8	160		1280	$865.28	4L F32T8 25W RELAMP/REBALLAST	20	$ 160.00	8	86	688	$465.09	4000	592	2368	400.192	$ 400.19
92	1			STORAGE	4L F34T12 (2X4)		1	160		160	$108.16	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.14	4000	74	296	50.024	$ 50.02
93	1			STORAGE	20W CFL		1	20		20	$13.52	NO MEASURE		$ -	1	20	20	$13.52	4000	0	0	0	$ -
94	1			OFFICE 1	3L F34T12 (2X4)		2	130		260	$175.76	3L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	66	132	$89.23	4000	128	512	86.528	$ 86.53
95	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
96	1			OFFICE 2	3L F34T12 (2X4)		2	130		260	$175.76	3L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	66	132	$89.23	4000	128	512	86.528	$ 86.53
97	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
98	1			OFFICE 3	3L F34T12 (2X4)		2	130		260	$175.76	3L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	66	132	$89.23	4000	128	512	86.528	$ 86.53
99	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
100	1			MECHANICAL ROOM	2L F34T12 IND		3	80		240	$162.24	2L F32T8 25W RELAMP/REBALLAST	10	$ 30.00	3	43	129	$87.20	4000	111	444	75.036	$ 75.04
101	1			BOYS BATHROOM	2L F34T12 WRAP		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
102	1			BOYS BATHROOM	4L F34T12 (2X4)		2	160		320	$216.32	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.27	4000	148	592	100.048	$ 100.05
103	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
104	1			BATHROOM	60W A		1	60		60	$40.56	10W CFL		$ -	1	10	10	$6.76	4000	50	200	33.8	$ 33.80
105	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
106	1			CUSTODIAL	20W CFL		1	20		20	$13.52	NO MEASURE		$ -	1	20	20	$13.52	4000	0	0	0	$ -
107	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
108	1			GIRLS BATHROOM	2L F34T12 WRAP		3	80		240	$162.24	2L F32T8 25W RELAMP/REBALLAST	10	$ 30.00	3	43	129	$87.20	4000	111	444	75.036	$ 75.04
109	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
110	1			BATHROOM	60W A		1	60		60	$40.56	10W CFL		$ -	1	10	10	$6.76	4000	50	200	33.8	$ 33.80
111	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
112	1			BOILER ROOM	2L F34T12 WRAP		6	80		480	$324.48	2L F32T8 25W RELAMP/REBALLAST	10	$ 60.00	6	43	258	$174.41	4000	222	888	150.072	$ 150.07
113	1		133	MUSIC	2L F34T12 WRAP		24	80		1920	$1,297.92	2L F32T8 25W RELAMP/REBALLAST	10	$ 240.00	24	43	1032	$697.63	4000	888	3552	600.288	$ 600.29
114	1			STORAGE	4L F32T8 (2X4)		2	112		224	$151.42	4L F32T8 25W RELAMP		$ -	2	86	172	$116.27	4000	52	208	35.152	$ 35.15
115	1		132	LAB CLASSROOM	3L F34T12 (2X4)		17	130		2210	$1,493.96	3L F32T8 25W RELAMP/REBALLAST	20	$ 340.00	17	66	1122	$758.47	4000	1088	4352	735.488	$ 735.49
116	1		132	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
117	1		132	PREP	3L F34T12 (2X4)		2	130		260	$175.76	3L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	66	132	$89.23	4000	128	512	86.528	$ 86.53
118	1		132	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
119	1		134	LAB CLASSROOM	3L F34T12 (2X4)		17	130		2210	$1,493.96	3L F32T8 25W RELAMP/REBALLAST	20	$ 340.00	17	66	1122	$758.47	4000	1088	4352	735.488	$ 735.49
120	1		134	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
121	1		135	MUSIC	3L F34T12 (2X4)		12	130		1560	$1,054.56	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$535.30	4000	768	3072	519.168	$ 519.17
122	1		135	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
123	1		135	STORAGE	3L F34T12 (2X4)		1	130		130	$87.88	3L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	66	66	$44.62	4000	64	256	43.264	$ 43.26
124	1		135	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
125	1			SMALL HALL	2L F34T12 (2X4)		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
126	1			PRACTICE 1	3L F34T12 (2X4)		2	130		260	$175.76	3L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	66	132	$89.23	4000	128	512	86.528	$ 86.53
127	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
128	1			OFFICE	3L F34T12 (2X4)		4	130		520	$351.52	3L F32T8 25W RELAMP/REBALLAST	20	$ 80.00	4	66	264	$178.46	4000	256	1024	173.056	$ 173.06
129	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
130	1			OFFICE	2L F34T12 (2X4)		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
131	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
132	1		136	TECH CLASSROOM	3L F34T12 (2X4)		16	130		2080	$1,406.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 320.00	16	66	1056	$713.86	4000	1024	4096	692.224	$ 692.22
133	1		136	TECH CLASSROOM	2L FB34T12 U6 (2X2)		1	80		80	$54.08	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	20	$ 20.00	1	37	37	$25.01	4000	43	172	29.068	$ 29.07
134	1		136	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
135	1		136	PREP ROOM	4L F34T12 (2X4)		4	160		640	$432.64	4L F32T8 25W RELAMP/REBALLAST	20	$ 80.00	4	86	344	$232.54	4000	296	1184	200.096	$ 200.10
136	1		136	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
137	1		138	ART	3L F34T12 (2X4)		16	130		2080	$1,406.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 320.00	16	66	1056	$713.86	4000	1024	4096	692.224	$ 692.22
138	1		138	ART	2L FB34T12 U6 (2X2)		1	80		80	$54.08	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	20	$ 20.00	1	37	37	$25.01	4000	43	172	29.068	$ 29.07
139	1		138	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
140	1			CUSTODIAL	2L F34T12 (2X4)		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
141	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
142	1		100	WOOD SHOP	2L F34T12 VT (1X4)		42	80		3360	$2,271.36	2L F32T8 25W RELAMP/REBALLAST	10	$ 420.00	42	43	1806	$1,220.86	4000	1554	6216	1050.504	$ 1,050.50
143	1		100	OFFICE	3L F34T12 (2X4)		2	130		260	$175.76	3L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	66	132	$89.23	4000	128	512	86.528	$ 86.53
144	1			BACK ENTRANCE	2L F34T12 (2X4)		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
145	1		102	TECH CLASSROOM	4L F34T12 (2X4)		12	160		1920	$1,297.92	4L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	86	1032	$697.63	4000	888	3552	600.288	$ 600.29

LN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty	Exist. Fix Wts	Foot Candle	Total Fix Wts	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl. Qty	Repl. Fix Wts	Total Fix Wts	Proposed An. Cost	Opr. Hours	Fix Wts Saved	kWh Saved	0.15/kWh	Annual Elec Savings
146	1		104	HOME EC	3L F34T12 (2X4)		28	130	36	3640	$2,460.64	3L F32T8 25W RELAMP/REBALLAST	20	$ 560.00	28	66	1848	$1,249.25	4000	1792	7168	1211.392	$ 1,211.39
147	1			STORAGE	2L F34T12 WRAP		8	80		640	$432.64	2L F32T8 25W RELAMP/REBALLAST	10	$ 80.00	8	43	344	$232.54	4000	296	1184	200.096	$ 200.10
148	1			GIRLS GYM STORAGE	2L F34T12 WRAP		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
149	1			GIRLS GYM STORAGE	2L F32T8 IND		1	60		60	$40.56	2L F32T8 25W RELAMP		$ -	1	43	43	$29.07	4000	17	68	11.492	$ 11.49
150	1			GIRLS LOCKERS	4L F34T12 (2X4)		2	160		320	$216.32	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.27	4000	148	592	100.048	$ 100.05
151	1			GIRLS LOCKERS	4L F32T8 (2X4)		7	112		784	$529.98	4L F32T8 25W RELAMP		$ -	7	86	602	$406.95	4000	182	728	123.032	$ 123.03
152	1			GIRLS LOCKERS	2L FB32T8 U6 (2X2)		5	60		300	$202.80	2L F17T8 17W RELAMP/REFLECTOR KIT (2X2)	10	$ 50.00	5	37	185	$125.06	4000	115	460	77.74	$ 77.74
153	1			GIRLS LOCKERS	100W A		5	100		500	$338.00	20W CFL		$ -	5	20	100	$67.60	4000	400	1600	270.4	$ 270.40
154	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
155	1			OFFICE	4L F34T12 (2X4)		1	160		160	$108.16	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.14	4000	74	296	50.024	$ 50.02
156	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
157	1			BATHROOM	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
158	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
159	1			SLOP SINK	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
160	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
161	1			GYM	400W MH		30	455		13650	$9,227.40	6L T5HO ELB/HBF HIGH BAY FIXTURE	100	$ 3,000.00	30	351	10530	$7,118.28	4000	3120	12480	2109.12	$ 2,109.12
162	1			GIRLS GYM REAR ENTRANC	4L F34T12 (2X4)		1	160		160	$108.16	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.14	4000	74	296	50.024	$ 50.02
163	1			BOYS GYM REAR ENTRANC	4L F34T12 (2X4)		1	160		160	$108.16	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.14	4000	74	296	50.024	$ 50.02
164	1			BOYS LOCKERS	4L F34T12 (2X4)		6	160		960	$648.96	4L F32T8 25W RELAMP/REBALLAST	20	$ 120.00	6	86	516	$348.82	4000	444	1776	300.144	$ 300.14
165	1			BOYS LOCKERS	2L F34T12 WRAP		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
166	1			BOYS LOCKERS	100W A		7	100		700	$473.20	20W CFL		$ -	7	20	140	$94.64	4000	560	2240	378.56	$ 378.56
167	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
168	1			OFFICE	4L F34T12 (2X4)		1	160		160	$108.16	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.14	4000	74	296	50.024	$ 50.02
169	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
170	1			BATHROOM	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
171	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
172	1			SLOP SINK	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
173	1			CLOSET	100W A		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
174	1			BOYS GYM STORAGE	2L F34T12 WRAP		2	80		160	$108.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.14	4000	74	296	50.024	$ 50.02
175	1			FACULTY LOUNGE	2L F34T12 WRAP		8	80		640	$432.64	2L F32T8 25W RELAMP/REBALLAST	10	$ 80.00	8	43	344	$232.54	4000	296	1184	200.096	$ 200.10
176	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
177	1			KITCHEN	2L F32T8 WRAP		26	60		1560	$1,054.56	2L F32T8 25W RELAMP		$ -	26	43	1118	$755.77	4000	442	1768	298.792	$ 298.79
178	1			KITCHEN	100W JJ		4	100		400	$270.40	20W CFL		$ -	4	20	80	$54.08	4000	320	1280	216.32	$ 216.32
179	1			SNACK ROOM	2L F32T8 WRAP		3	60		180	$121.68	2L F32T8 25W RELAMP		$ -	3	43	129	$87.20	4000	51	204	34.476	$ 34.48
180	1			PUMP/ SPRINKLER	2L F34T12 IND		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
181	1			CAFETORIUM	2L F34T12 WRAP		2	80		160	$108.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.14	4000	74	296	50.024	$ 50.02
182	1			CAFETORIUM	250W MH HID		12	288		3456	$2,336.26	4L T5HO ELB/HBF HIGH BAY FIXTURE	50	$ 600.00	12	234	2808	$1,898.21	4000	648	2592	438.048	$ 438.05
183	1			TRANSPORTATION	4L F34T12 (2X4)		1	160		160	$108.16	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.14	4000	74	296	50.024	$ 50.02
184	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
185	1			HALLS	4L F34T12 (2X4)		10	160		1600	$1,081.60	4L F32T8 25W RELAMP/REBALLAST	20	$ 200.00	10	86	860	$581.36	4000	740	2960	500.24	$ 500.24
186	1			HALLS	2L FB34T12 U6 (2X2)		2	80		160	$108.16	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	20	$ 40.00	2	37	74	$50.02	4000	86	344	58.136	$ 58.14
187	1			HALLS	1L F34T12 WRAP		60	50		3000	$2,028.00	1L F32T8 25W RELAMP/REBALLAST	10	$ 600.00	60	22	1320	$892.32	4000	1680	6720	1135.68	$ 1,135.68
188	1			HALLS	2L F34T12 (2X4)		29	80		2320	$1,568.32	2L F32T8 25W RELAMP/REBALLAST	10	$ 290.00	29	43	1247	$842.97	4000	1073	4292	725.348	$ 725.35
189	1			HALLS	2L F34T12 (1X4)		31	80		2480	$1,676.48	2L F32T8 25W RELAMP/REBALLAST	10	$ 310.00	31	43	1333	$901.11	4000	1147	4588	775.372	$ 775.37
190	1			HALLS	100W JJ		2	100		200	$135.20	20W CFL		$ -	2	20	40	$27.04	4000	160	640	108.16	$ 108.16
191	2			HALLS	2L F32T8 (2X4)		26	60		1560	$1,054.56	2L F32T8 25W RELAMP		$ -	26	43	1118	$755.77	4000	442	1768	298.792	$ 298.79
192	2			STAIRS 21	2L F34T12 (2X4)		2	80		160	$108.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.14	4000	74	296	50.024	$ 50.02
193	2			STAIRS 21	100W JJ		2	100		200	$135.20	20W CFL		$ -	2	20	40	$27.04	4000	160	640	108.16	$ 108.16
194	2			STAIRS 20	2L F34T12 (2X4)		2	80		160	$108.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.14	4000	74	296	50.024	$ 50.02
195	2			STAIRS 20	100W JJ		2	100		200	$135.20	20W CFL		$ -	2	20	40	$27.04	4000	160	640	108.16	$ 108.16
196	2		212	CLASSROOM	2L F54T5 (2X4)		12	117		1404	$949.10	NO MEASURE		$ -	12	117	1404	$949.10	4000	0	0	0	$ -
197	2		210	CLASSROOM	2L F54T5 (2X4)		12	117		1404	$949.10	NO MEASURE		$ -	12	117	1404	$949.10	4000	0	0	0	$ -
198	2		217	CLASSROOM	2L F54T5 (2X4)		12	117		1404	$949.10	NO MEASURE		$ -	12	117	1404	$949.10	4000	0	0	0	$ -
199	2		215	CLASSROOM	2L F54T5 (2X4)		12	117		1404	$949.10	NO MEASURE		$ -	12	117	1404	$949.10	4000	0	0	0	$ -
200	2		213	CLASSROOM	2L F54T5 (2X4)		12	117		1404	$949.10	NO MEASURE		$ -	12	117	1404	$949.10	4000	0	0	0	$ -
201	2		211	CLASSROOM	2L F54T5 (2X4)		12	117		1404	$949.10	NO MEASURE		$ -	12	117	1404	$949.10	4000	0	0	0	$ -
202	2			OFFICE	2L F54T5 (2X4)		4	117		468	$316.37	NO MEASURE		$ -	4	117	468	$316.37	4000	0	0	0	$ -
203	2			BOYS BATHROOM	2L F32T8 (2X4)		4	60		240	$162.24	2L F32T8 25W RELAMP		$ -	4	43	172	$116.27	4000	68	272	45.968	$ 45.97
204	2			SLOP SINK	20W CFL		1	20		20	$13.52	NO MEASURE		$ -	1	20	20	$13.52	4000	0	0	0	$ -
205	2			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00					
206	2		208	CLASSROOM	2L F34T12 WRAP		12	80		960	$648.96	2L F32T8 25W RELAMP/REBALLAST	10	$ 120.00	12	43	516	$348.82	4000	444	1776	300.144	$ 300.14
207	2		208	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
208	2			FACULTY	4L F34T12 (2X4)		2	160		320	$216.32	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.27	4000	148	592	100.048	$ 100.05
209	2		209	CLASSROOM	2L F34T12 WRAP		12	80		960	$648.96	2L F32T8 25W RELAMP/REBALLAST	10	$ 120.00	12	43	516	$348.82	4000	444	1776	300.144	$ 300.14
210	2		209	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
211	2		206	CLASSROOM	2L F34T12 WRAP		12	80	29	960	$648.96	2L F32T8 25W RELAMP/REBALLAST	10	$ 120.00	12	43	516	$348.82	4000	444	1776	300.144	$ 300.14
212	2		206	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
213	2		207	CLASSROOM	2L F34T12 WRAP		12	80	49	960	$648.96	2L F32T8 25W RELAMP/REBALLAST	10	$ 120.00	12	43	516	$348.82	4000	444	1776	300.144	$ 300.14
214	2		207	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
215	2		204	CLASSROOM	2L F34T12 WRAP		12	80		960	$648.96	2L F32T8 25W RELAMP/REBALLAST	10	$ 120.00	12	43	516	$348.82	4000	444	1776	300.144	$ 300.14
216	2		204	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
217	2			CHILD STUDY OPEN AREA	4L F34T12 (2X4)		7	160		1120	$757.12	4L F32T8 25W RELAMP/REBALLAST	20	$ 140.00	7	86	602	$406.95	4000	518	2072	350.168	$ 350.17
218	2			CHILD STUDY BATHROOM	100W JJ		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
219	2		202	CLASSROOM	2L F34T12 WRAP		12	80		960	$648.96	2L F32T8 25W RELAMP/REBALLAST	10	$ 120.00	12	43	516	$348.82	4000	444	1776	300.144	$ 300.14
220	2		202	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
221	2			GIRLS BATHROOM	4L F34T12 (2X4)		2	160		320	$216.32	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.27	4000	148	592	100.048	$ 100.05
222	2			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00					
223	2			CUSTODIAL	20W CFL		1	20		20	$13.52	NO MEASURE		$ -	1	20	20	$13.52	4000	0	0	0	$ -

LN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty.	Exist Fix Wts	Foot Candle	Total Fix Wts	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl Qty.	Repl Fix Wts	Total Fix Wts	Proposed An. Cost	Opr Hours	Fix Wts Saved	kWh Saved	0.15/kWh	Annual Elec Savings
224	2		200	CLASSROOM	2L F34T12 WRAP		16	80	53	1280	$865.28	2L F32T8 25W RELAMP/REBALLAST	10	$ 160.00	16	43	688	$465.09	4000	592	2368	400.192	$ 400.19
225	2		200	STORAGE	20W CFL		3	20		60	$40.56	NO MEASURE		$ -	3	20	60	$40.56	4000	0	0	0	$ -
226	2		200	STORAGE	2L F34T12 WRAP		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
227	2		200	STORAGE	4L F34T12 (2X4)		2	160		320	$216.32	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.27	4000	148	592	100.048	$ 100.05
228	2		200	STORAGE	100W JJ		1	100		100	$67.60	20W CFL		$ -	1	20	20	$13.52	4000	80	320	54.08	$ 54.08
229	2			BOOK STORAGE	2L F34T12 IND		1	80		80	$54.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.07	4000	37	148	25.012	$ 25.01
230	2			INDUSTRIAL ARTS HALL	2L F32T8 (2X4)		5	60		300	$202.80	2L F32T8 25W RELAMP		$ -	5	43	215	$145.34	4000	85	340	57.46	$ 57.46
231	2			FACULTY	2L FB34T12 U6 (2X2)		1	80		80	$54.08	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	20	$ 20.00	1	37	37	$25.01	4000	43	172	29.068	$ 29.07
232	2			FACULTY	2L F34T12 (2X4)		7	80		560	$378.56	2L F32T8 25W RELAMP/REBALLAST	10	$ 70.00	7	43	301	$203.48	4000	259	1036	175.084	$ 175.08
233	2			SERVER ROOM	2L F32T8 (2X4)		5	60		300	$202.80	2L F32T8 25W RELAMP		$ -	5	43	215	$145.34	4000	85	340	57.46	$ 57.46
										124,258	$84,046.67			$ 17,815.00					KW SAVED >>>>	50.77	203345.04	34365.3118	$ 34,365.31
																	73486	$49,681.3626					Total Cost Savings
																							Total kWh Savings

Electric Rate: $0.169

Name:	Pequannock Township Board of Education - Middle School
Address:	538 Newark Pompton Turnpike
City, St.	Pompton Plains, NJ 07444
Contact:	Steven DiGeronimo
Phone:	973-616-6030

Annual Sens. Savings	LN #	FL #	Replacement Fixture Description	Repl. Qty.	qty.fix	Fixture / Ballast	cost fix.	qty.lmp	Lamp / Sensor	cost lmp	qty.ref.	Reflector / PowerPack	cost ref	Ballast/Fix Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	NON UNION Labor Cost	NON UNION Labor Tot. Cost
	1	1	3L F32T8 25W RELAMP/REBALLAST	6	6	4L ELB/NBF BALLAST	$ 15.00	18	F32T8 25W LAMP	$ 3.00	6		$ -	$ 90.00	$ 54.00	$ -	$ 187.20	$ 25.00	$ 150.00
	2	1	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F17T8 17W LAMP	$ 3.00	1	M4 REFLECTOR KIT (2X2)	$ 12.00	$ 12.00	$ 6.00	$ 12.00	$ 39.00	$ 35.00	$ 35.00
	3	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
	4	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
	5	1	4L F32T8 25W RELAMP	1	1		$ -	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 12.00
$ 34.88	6	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	7	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
	8	1	4L F32T8 25W RELAMP	1	1		$ -	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 12.00
$ 34.88	9	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	10	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 3.04	11	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	12	1	2L F32T8 25W RELAMP/REBALLAST	12	12	2L ELB/NBF BALLAST	$ 12.00	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ 144.00	$ 72.00	$ -	$ 280.80	$ 25.00	$ 300.00
$ 104.64	13	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	14	1	2L F32T8 25W RELAMP/REBALLAST	12	12	2L ELB/NBF BALLAST	$ 12.00	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ 144.00	$ 72.00	$ -	$ 280.80	$ 25.00	$ 300.00
$ 104.64	15	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	16	1	2L F32T8 25W RELAMP/REBALLAST	12	12	2L ELB/NBF BALLAST	$ 12.00	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ 144.00	$ 72.00	$ -	$ 280.80	$ 25.00	$ 300.00
$ 104.64	17	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	18	1	20W CFL	2	2		$ -	2	20W CFL	$ 10.00	2		$ -	$ -	$ 20.00	$ -	$ 26.00	$ 10.00	$ 20.00
	19	1	3L F32T8 25W RELAMP/REBALLAST	18	18	4L ELB/NBF BALLAST	$ 15.00	54	F32T8 25W LAMP	$ 3.00	18		$ -	$ 270.00	$ 162.00	$ -	$ 561.60	$ 25.00	$ 450.00
	20	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
$ 17.44	21	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	22	1	2L F32T8 25W RELAMP/REBALLAST	14	14	2L ELB/NBF BALLAST	$ 12.00	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ 168.00	$ 84.00	$ -	$ 327.60	$ 25.00	$ 350.00
	23	1	2L F32T8 25W RELAMP/REBALLAST	14	14	2L ELB/NBF BALLAST	$ 12.00	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ 168.00	$ 84.00	$ -	$ 327.60	$ 25.00	$ 350.00
$ 122.09	24	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	25	1	2L F32T8 25W RELAMP/REBALLAST	14	14	2L ELB/NBF BALLAST	$ 12.00	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ 168.00	$ 84.00	$ -	$ 327.60	$ 25.00	$ 350.00
$ 122.09	26	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	27	1	2L F32T8 25W RELAMP/REBALLAST	14	14	2L ELB/NBF BALLAST	$ 12.00	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ 168.00	$ 84.00	$ -	$ 327.60	$ 25.00	$ 350.00
$ 122.09	28	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	29	1	2L F32T8 25W RELAMP/REBALLAST	14	14	2L ELB/NBF BALLAST	$ 12.00	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ 168.00	$ 84.00	$ -	$ 327.60	$ 25.00	$ 350.00
$ 122.09	30	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	31	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
	32	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 3.04	33	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	34	1	3L F32T8 25W RELAMP/REBALLAST	38	38	4L ELB/NBF BALLAST	$ 15.00	114	F32T8 25W LAMP	$ 3.00	38		$ -	$ 570.00	$ 342.00	$ -	$ 1,185.60	$ 25.00	$ 950.00
	35	1	3L F32T8 25W RELAMP/REBALLAST	4	4	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	4		$ -	$ 60.00	$ 36.00	$ -	$ 124.80	$ 25.00	$ 100.00
	36	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
	37	1	4L F32T8 25W RELAMP/REBALLAST	9	9	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	9		$ -	$ 135.00	$ 108.00	$ -	$ 315.90	$ 25.00	$ 225.00
	38	1	NEW LED EXIT SIGN	2	2	NEW LED EXIT SIGN	$ 55.00	2		$ -	2		$ -	$ 110.00	$ -	$ -	$ 143.00	$ 35.00	$ 70.00
	39	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	40	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
	41	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
	42	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
	43	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
$ 164.67	44	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	45	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
	46	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
$ 164.67	47	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	48	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
$ 160.62	49	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	50	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
	51	1	4L F32T8 25W RELAMP/REBALLAST	3	3	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	3		$ -	$ 45.00	$ 36.00	$ -	$ 105.30	$ 25.00	$ 75.00
	52	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 3.04	53	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	54	1	3L F32T8 25W RELAMP/REBALLAST	11	11	4L ELB/NBF BALLAST	$ 15.00	33	F32T8 25W LAMP	$ 3.00	11		$ -	$ 165.00	$ 99.00	$ -	$ 343.20	$ 25.00	$ 275.00
	55	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
	56	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
$ 12.78	57	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	58	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
	59	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
	60	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
	61	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
$ 164.67	62	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	63	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
	64	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
$ 164.67	65	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	66	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
	67	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00

Annual Sens. Savings	LN #	FL #	Replacement Fixture Description	Repl Qty	qty fxt	Fixture / Ballast	cost fix	qty lmp	Lamp / Socket	cost lmp	qty ref	Reflector / Power Pack	cost ref	Ballast/Fix Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	Labor Cost	Labor Tot. Cost
$ 164.67	68	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	69	1	2L F32T8 25W RELAMP/REBALLAST	9	9	2L ELB/NBF BALLAST	$ 12.00	18	F32T8 25W LAMP	$ 3.00	9		$ -	$ 108.00	$ 54.00	$ -	$ 210.60	$ 25.00	$ 225.00
$ 78.48	70	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	71	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
$ 34.88	72	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	73	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
$ 34.88	74	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	75	1	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F17T8 17W LAMP	$ 3.00	1	M4 REFLECTOR KIT (2X2)	$ 12.00	$ 12.00	$ 6.00	$ 12.00	$ 30.00	$ 35.00	$ 35.00
$ 7.50	76	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	77	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
	78	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
	79	1	2L F32T8 25W RELAMP/REBALLAST	7	7	2L ELB/NBF BALLAST	$ 12.00	14	F32T8 25W LAMP	$ 3.00	7		$ -	$ 84.00	$ 42.00	$ -	$ 163.80	$ 25.00	$ 175.00
	80	1	4L F32T8 25W RELAMP/REBALLAST	4	4	4L ELB/NBF BALLAST	$ 15.00	16	F32T8 25W LAMP	$ 3.00	4		$ -	$ 60.00	$ 48.00	$ -	$ 140.40	$ 25.00	$ 100.00
	81	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
	82	1	1L F32T8 25W RELAMP/REBALLAST	6	6	2L ELB/NBF BALLAST	$ 12.00	6	F32T8 25W LAMP	$ 3.00	6		$ -	$ 72.00	$ 18.00	$ -	$ 117.00	$ 25.00	$ 150.00
	83	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	84	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
$ 34.88	85	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	86	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 4.06	87	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	88	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
	89	1	3L F32T8 25W RELAMP	4	4		$ -	12		$ -	4			$ -	$ -	$ -	$ -	$ -	$ -
	90	1	3L F32T8 25W RELAMP	2	2		$ -	6		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	91	1	4L F32T8 25W RELAMP/REBALLAST	8	8	4L ELB/NBF BALLAST	$ 15.00	32	F32T8 25W LAMP	$ 3.00	8		$ -	$ 120.00	$ 96.00	$ -	$ 280.80	$ 25.00	$ 200.00
	92	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
	93	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	94	1	3L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	6	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 18.00	$ -	$ 62.40	$ 25.00	$ 50.00
$ 26.77	95	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	96	1	3L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	6	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 18.00	$ -	$ 62.40	$ 25.00	$ 50.00
$ 26.77	97	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	98	1	3L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	6	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 18.00	$ -	$ 62.40	$ 25.00	$ 50.00
$ 26.77	99	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	100	1	2L F32T8 25W RELAMP/REBALLAST	3	3	2L ELB/NBF BALLAST	$ 12.00	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ 36.00	$ 18.00	$ -	$ 70.20	$ 25.00	$ 75.00
	101	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
	102	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
$ 43.60	103	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	104	1	10W CFL	1	1		$ -	1	10W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
$ 2.03	105	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	106	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
$ 4.06	107	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	108	1	2L F32T8 25W RELAMP/REBALLAST	3	3	2L ELB/NBF BALLAST	$ 12.00	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ 36.00	$ 18.00	$ -	$ 70.20	$ 25.00	$ 75.00
$ 26.16	109	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	110	1	10W CFL	1	1		$ -	1	10W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
$ 2.03	111	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	112	1	2L F32T8 25W RELAMP/REBALLAST	6	6	2L ELB/NBF BALLAST	$ 12.00	12	F32T8 25W LAMP	$ 3.00	6		$ -	$ 72.00	$ 36.00	$ -	$ 140.40	$ 25.00	$ 150.00
	113	1	2L F32T8 25W RELAMP/REBALLAST	24	24	2L ELB/NBF BALLAST	$ 12.00	48	F32T8 25W LAMP	$ 3.00	24		$ -	$ 288.00	$ 144.00	$ -	$ 561.60	$ 25.00	$ 600.00
	114	1	4L F32T8 25W RELAMP	2	2		$ -	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 24.00
	115	1	3L F32T8 25W RELAMP/REBALLAST	17	17	4L ELB/NBF BALLAST	$ 15.00	51	F32T8 25W LAMP	$ 3.00	17		$ -	$ 255.00	$ 153.00	$ -	$ 530.40	$ 25.00	$ 425.00
$ 227.54	116	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	117	1	3L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	6	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 18.00	$ -	$ 62.40	$ 25.00	$ 50.00
$ 26.77	118	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	119	1	3L F32T8 25W RELAMP/REBALLAST	17	17	4L ELB/NBF BALLAST	$ 15.00	51	F32T8 25W LAMP	$ 3.00	17		$ -	$ 255.00	$ 153.00	$ -	$ 530.40	$ 25.00	$ 425.00
$ 227.54	120	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	121	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
$ 160.62	122	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	123	1	3L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	3	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 9.00	$ -	$ 31.20	$ 25.00	$ 25.00
$ 13.38	124	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	125	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
	126	1	3L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	6	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 18.00	$ -	$ 62.40	$ 25.00	$ 50.00
$ 26.77	127	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	128	1	3L F32T8 25W RELAMP/REBALLAST	4	4	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	4		$ -	$ 60.00	$ 36.00	$ -	$ 124.80	$ 25.00	$ 100.00
$ 53.54	129	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	130	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
$ 8.72	131	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
	132	1	3L F32T8 25W RELAMP/REBALLAST	16	16	4L ELB/NBF BALLAST	$ 15.00	48	F32T8 25W LAMP	$ 3.00	16		$ -	$ 240.00	$ 144.00	$ -	$ 499.20	$ 25.00	$ 400.00
	133	1	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F17T8 17W LAMP	$ 3.00	1	M4 REFLECTOR KIT (2X2)	$ 12.00	$ 12.00	$ 6.00	$ 12.00	$ 30.00	$ 35.00	$ 35.00
$ 221.66	134	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	135	1	4L F32T8 25W RELAMP/REBALLAST	4	4	4L ELB/NBF BALLAST	$ 15.00	16	F32T8 25W LAMP	$ 3.00	4		$ -	$ 60.00	$ 48.00	$ -	$ 140.40	$ 25.00	$ 100.00
$ 69.76	136	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	137	1	3L F32T8 25W RELAMP/REBALLAST	16	16	4L ELB/NBF BALLAST	$ 15.00	48	F32T8 25W LAMP	$ 3.00	16		$ -	$ 240.00	$ 144.00	$ -	$ 499.20	$ 25.00	$ 400.00
	138	1	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F17T8 17W LAMP	$ 3.00	1	M4 REFLECTOR KIT (2X2)	$ 12.00	$ 12.00	$ 6.00	$ 12.00	$ 30.00	$ 35.00	$ 35.00
$ 221.66	139	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	140	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
$ 8.72	141	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
	142	1	2L F32T8 25W RELAMP/REBALLAST	42	42	2L ELB/NBF BALLAST	$ 12.00	84	F32T8 25W LAMP	$ 3.00	42		$ -	$ 504.00	$ 252.00	$ -	$ 982.80	$ 25.00	$ 1,050.00
	143	1	3L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	6	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 18.00	$ -	$ 62.40	$ 25.00	$ 50.00
	144	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
	145	1	4L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	48	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 144.00	$ -	$ 421.20	$ 25.00	$ 300.00

Annual Sens. Savings		LN #	FL #	Replacement Fixture Description	Repl. Qty.	qty fix	Fixture / Ballast	cost fix	qty lmp	Lamp / Sensor	cost lmp	qty ref	Reflector / Power Pack	cost ref	Ballast/Fix. Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	Labor Cost	Labor Tot. Cost
		146	1	3L F32T8 25W RELAMP/REBALLAST	28	28	4L ELB/NBF BALLAST	$ 15.00	84	F32T8 25W LAMP	$ 3.00	28		$ -	$ 420.00	$ 252.00	$ -	$ 873.60	$ 25.00	$ 700.00
		147	1	2L F32T8 25W RELAMP/REBALLAST	8	8	2L ELB/NBF BALLAST	$ 12.00	16	F32T8 25W LAMP	$ 3.00	8		$ -	$ 96.00	$ 48.00	$ -	$ 187.20	$ 25.00	$ 200.00
		148	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
		149	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
		150	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
		151	1	4L F32T8 25W RELAMP	7	7		$ -	28	F32T8 25W LAMP	$ 3.00	7		$ -	$ -	$ 84.00	$ -	$ 109.20	$ 12.00	$ 84.00
		152	1	2L F17T8 17W RELAMP/REFLECTOR KIT (2X2)	5	5		$ -	10	F17T8 17W LAMP	$ 3.00	5	M4 REFLECTOR KIT (2X2)	$ 12.00	$ -	$ 30.00	$ 60.00	$ 117.00	$ 25.00	$ 125.00
		153	1	20W CFL	5	5		$ -	5	20W CFL	$ 10.00	5		$ -	$ -	$ 50.00	$ -	$ 65.00	$ 10.00	$ 50.00
$	214.77	154	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
		155	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
$	17.44	156	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
		157	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
$	4.06	158	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
		159	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
$	4.06	160	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
		161	1	6L T5HO ELB/HBF HIGH BAY FIXTURE	30	30	6L T5HO HIGH BAY FIXTURE	$200.00	90	F32T8 25W LAMP	$ 3.00	30		$ -	$ 6,000.00	$ 270.00	$ -	$ 8,151.00	$ 25.00	$ 750.00
		162	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
		163	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
		164	1	4L F32T8 25W RELAMP/REBALLAST	6	6	4L ELB/NBF BALLAST	$ 15.00	24	F32T8 25W LAMP	$ 3.00	6		$ -	$ 90.00	$ 72.00	$ -	$ 210.60	$ 25.00	$ 150.00
		165	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
		166	1	20W CFL	7	7		$ -	7	20W CFL	$ 10.00	7		$ -	$ -	$ 70.00	$ -	$ 91.00	$ 10.00	$ 70.00
$	37.11	167	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
		168	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
$	17.44	169	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
		170	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
$	4.06	171	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
		172	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
		173	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
		174	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
		175	1	2L F32T8 25W RELAMP/REBALLAST	8	8	2L ELB/NBF BALLAST	$ 12.00	16	F32T8 25W LAMP	$ 3.00	8		$ -	$ 96.00	$ 48.00	$ -	$ 187.20	$ 25.00	$ 200.00
$	69.76	176	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
		177	1	2L F32T8 25W RELAMP	26	26		$ -	52	F32T8 25W LAMP	$ 3.00	26		$ -	$ -	$ 156.00	$ -	$ 202.80	$ 12.00	$ 312.00
		178	1	20W CFL	4	4		$ -	4	20W CFL	$ 10.00	4		$ -	$ -	$ 40.00	$ -	$ 52.00	$ 10.00	$ 40.00
		179	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
		180	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
		181	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
		182	1	4L T5HO ELB/HBF HIGH BAY FIXTURE	12	12	4L T5HO HIGH BAY FIXTURE	$175.00	12		$ -	12		$ -	$ 2,100.00	$ -	$ -	$ 2,730.00	$ 75.00	$ 900.00
		183	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
$	17.44	184	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
		185	1	4L F32T8 25W RELAMP/REBALLAST	10	10	4L ELB/NBF BALLAST	$ 15.00	40	F32T8 25W LAMP	$ 3.00	10		$ -	$ 150.00	$ 120.00	$ -	$ 351.00	$ 25.00	$ 250.00
		186	1	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F17T8 17W LAMP	$ 3.00	2	M4 REFLECTOR KIT (2X2)	$ 12.00	$ 24.00	$ 12.00	$ 24.00	$ 78.00	$ 35.00	$ 70.00
		187	1	1L F32T8 25W RELAMP/REBALLAST	60	60	2L ELB/NBF BALLAST	$ 12.00	60	F32T8 25W LAMP	$ 3.00	60		$ -	$ 720.00	$ 180.00	$ -	$ 1,170.00	$ 25.00	$ 1,500.00
		188	1	2L F32T8 25W RELAMP/REBALLAST	29	29	2L ELB/NBF BALLAST	$ 12.00	58	F32T8 25W LAMP	$ 3.00	29		$ -	$ 348.00	$ 174.00	$ -	$ 678.60	$ 25.00	$ 725.00
		189	1	2L F32T8 25W RELAMP/REBALLAST	31	31	2L ELB/NBF BALLAST	$ 12.00	62	F32T8 25W LAMP	$ 3.00	31		$ -	$ 372.00	$ 186.00	$ -	$ 725.40	$ 25.00	$ 775.00
		190	1	20W CFL	2	2		$ -	2	20W CFL	$ 10.00	2		$ -	$ -	$ 20.00	$ -	$ 26.00	$ 10.00	$ 20.00
		191	2	2L F32T8 25W RELAMP	26	26		$ -	52	F32T8 25W LAMP	$ 3.00	26		$ -	$ -	$ 156.00	$ -	$ 202.80	$ 12.00	$ 312.00
		192	2	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
		193	2	20W CFL	2	2		$ -	2	20W CFL	$ 10.00	2		$ -	$ -	$ 20.00	$ -	$ 26.00	$ 10.00	$ 20.00
		194	2	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
		195	2	20W CFL	2	2		$ -	2	20W CFL	$ 10.00	2		$ -	$ -	$ 20.00	$ -	$ 26.00	$ 10.00	$ 20.00
		196	2	NO MEASURE	12	12		$ -	24		$ -	12		$ -	$ -	$ -	$ -	$ -	$ -	$ -
		197	2	NO MEASURE	12	12		$ -	24		$ -	12		$ -	$ -	$ -	$ -	$ -	$ -	$ -
		198	2	NO MEASURE	12	12		$ -	24		$ -	12		$ -	$ -	$ -	$ -	$ -	$ -	$ -
		199	2	NO MEASURE	12	12		$ -	24		$ -	12		$ -	$ -	$ -	$ -	$ -	$ -	$ -
		200	2	NO MEASURE	12	12		$ -	24		$ -	12		$ -	$ -	$ -	$ -	$ -	$ -	$ -
		201	2	NO MEASURE	12	12		$ -	24		$ -	12		$ -	$ -	$ -	$ -	$ -	$ -	$ -
		202	2	NO MEASURE	4	4		$ -	8		$ -	4		$ -	$ -	$ -	$ -	$ -	$ -	$ -
		203	2	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
		204	2	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
$	4.06	205	2	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
		206	2	2L F32T8 25W RELAMP/REBALLAST	12	12	2L ELB/NBF BALLAST	$ 12.00	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ 144.00	$ 72.00	$ -	$ 280.80	$ 25.00	$ 300.00
$	104.64	207	2	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
		208	2	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
		209	2	2L F32T8 25W RELAMP/REBALLAST	12	12	2L ELB/NBF BALLAST	$ 12.00	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ 144.00	$ 72.00	$ -	$ 280.80	$ 25.00	$ 300.00
$	104.64	210	2	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
		211	2	2L F32T8 25W RELAMP/REBALLAST	12	12	2L ELB/NBF BALLAST	$ 12.00	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ 144.00	$ 72.00	$ -	$ 280.80	$ 25.00	$ 300.00
$	104.64	212	2	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
		213	2	2L F32T8 25W RELAMP/REBALLAST	12	12	2L ELB/NBF BALLAST	$ 12.00	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ 144.00	$ 72.00	$ -	$ 280.80	$ 25.00	$ 300.00
$	104.64	214	2	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
		215	2	2L F32T8 25W RELAMP/REBALLAST	12	12	2L ELB/NBF BALLAST	$ 12.00	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ 144.00	$ 72.00	$ -	$ 280.80	$ 25.00	$ 300.00
$	104.64	216	2	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
		217	2	4L F32T8 25W RELAMP/REBALLAST	7	7	4L ELB/NBF BALLAST	$ 15.00	28	F32T8 25W LAMP	$ 3.00	7		$ -	$ 105.00	$ 84.00	$ -	$ 245.70	$ 25.00	$ 175.00
		218	2	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
		219	2	2L F32T8 25W RELAMP/REBALLAST	12	12	2L ELB/NBF BALLAST	$ 12.00	24	F32T8 25W LAMP	$ 3.00	12		$ -	$ 144.00	$ 72.00	$ -	$ 280.80	$ 25.00	$ 300.00
$	104.64	220	2	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
		221	2	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
$	34.88	222	2	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
		223	2	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -

Annual Sens. Savings	LN #	FL #	Replacement Fixture Description	Repl. Qty	qty fix	Fixture / Ballast	cost fix	qty lmp	Lamp / Source	cost lmp	qty ref	Reflector / Powerpack	cost ref	Ballast/Fix. Cost Total	Lamp Cost Total	REFLECT. Cost Total	Material Sell Total	Labor Cost	Labor Tot. Cost
	224	2	2L F32T8 25W RELAMP/REBALLAST	16	16	2L ELB/NBF BALLAST	$ 12.00	32	F32T8 25W LAMP	$ 3.00	16		$ -	$ 192.00	$ 96.00	$ -	$ 374.40	$ 25.00	$ 400.00
	225	2	NO MEASURE	3	3		$ -	3		$ -	3		$ -	$ -	$ -	$ -	$ -	$ -	$ -
	226	2	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
	227	2	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
	228	2	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
	229	2	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
	230	2	2L F32T8 25W RELAMP	5	5		$ -	10	F32T8 25W LAMP	$ 3.00	5		$ -	$ -	$ 30.00	$ -	$ 39.00	$ 12.00	$ 60.00
	231	2	2L F17T8 17W RELAMP/REBALLAST/REFLECTOR KIT (2X2)	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F17T8 17W LAMP	$ 3.00	1	M4 REFLECTOR KIT (2X2)	$ 12.00	$ 12.00	$ 6.00	$ 12.00	$ 39.00	$ 35.00	$ 35.00
	232	2	2L F32T8 25W RELAMP/REBALLAST	7	7	2L ELB/NBF BALLAST	$ 12.00	14	F32T8 25W LAMP	$ 3.00	7		$ -	$ 84.00	$ 42.00	$ -	$ 163.80	$ 25.00	$ 175.00
	233	2	2L F32T8 25W RELAMP	5	5		$ -	10	F32T8 25W LAMP	$ 3.00	5		$ -	$ -	$ 30.00	$ -	$ 39.00	$ 12.00	$ 60.00
$ 4,567.87														$ 19,541.00	$ 12,439.00	$ 1,369.00	$ 43,353.70	Total	$ 27,452.00
$ 38,933.18																With Tax	$ 46,388.46	CONT	$ -
230,373.84																		Equipment	$ -
																		Total Labor:	$ 35,687.60
																		Total project	$ 82,076.06

NEW JERSEY SMART START REBATE	$ 17,815.00

LIGHTING INVENTORY SUMMARY
PEQUANNOCK TOWNSHIP- HILLVIEW SCHOOL
538 Newark Pompton Turnpike
Pompton Plains, NJ 07444

EXECUTIVE SUMMARY

ENERGY DATA

Existing Energy Usage (Watts)	53,208
Proposed Energy Usage (Watts)	32,867
Energy Saved (Watts)	20,341
Annual Kilowatt Hours Saved (kWh)	105,456

FINANCIAL DATA

Annual Existing Energy Cost	$	36,351.37
Annual Proposed Energy Cost	$	22,385.97
Annual Energy Savings	$	13,965.40
Additional Energy Savings (Occupancy Sensors)	$	3,962.09
Total Energy Savings	$	17,927.49
Initial Project Cost	$	41,581.46
Utility Rebate (Based on NJ Smart Start Approval)	$	6,565.00
Project Cost	$	35,016.46

CASH FLOW SUMMARY

Return On Investment (R.O.I.)		40%
Payback (Years)		2.51
10 Year Savings	$	139,653.98
10-Year Cumulative Positive Cash Flow	$	104,637.52

PEQUANNOCK TOWNSHIP- HILLVIEW SCHOOL
538 Newark Pompton Turnpike
Pompton Plains, NJ 07444

New Jersey

Steven DiGeronimo
973-616-6030

UTILITY ACCOUNT NUMBER	N/A
BUILDING TYPE	Educational
SQUARE FOOTAGE	44,988

LN #	TL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty	Exist. Fix Wts.	Foot Candle	Total Fix Wts.	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl. Qty.	Repl. Fix Wts.	Total Fix Wts.	Proposed An. Cost	Opr. Hours	Fix Wts. Saved	kWh Saved	0.15/kWh	Annual Elec. Savings	Annual Sens. Savings
1	1			OFFICE OPEN AREA	2L F34T12 PRISMATIC (2X4)		9	80		720	$489.60	2L F32T8 25W RELAMP/REBALLAST	10	$ 90.00	9	43	387	$263.16	4000	333	1332	226.44	$ 226.44	
2	1			PRINCIPALS OFFICE	4L F34T12 (2X4)		2	160		320	$217.60	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.96	4000	148	592	100.64	$ 100.64	
3	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 35.09
4	1			SUPPLY CLOSET	2L F34T12 PRISMATIC (2X4)		1	80		80	$54.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.24	4000	37	148	25.16	$ 25.16	
5	1			NURSE	2L F34T12 PRISMATIC (2X4)		6	80		480	$326.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 60.00	6	43	258	$175.44	4000	222	888	150.96	$ 150.96	
6	1			HALL 1	2L F32T8 (1X4)		15	60		900	$612.00	2L F32T8 25W RELAMP		$ -	15	43	645	$438.60	4000	255	1020	173.4	$ 173.40	
7	1			HALL 1	4L F32T8 (2X4)		3	112		336	$228.48	4L F32T8 25W RELAMP		$ -	3	86	258	$175.44	4000	78	312	53.04	$ 53.04	
8	1			HALL 2	2L F32T8 (1X4)		6	60		360	$244.80	2L F32T8 25W RELAMP		$ -	6	43	258	$175.44	4000	102	408	69.36	$ 69.36	
9	1			NURSE SUPPLIES	2L F34T12 PRISMATIC (2X4)		1	80		80	$54.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.24	4000	37	148	25.16	$ 25.16	
10	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.77
11	1			NURSE CONSULT	2L F34T12 PRISMATIC (2X4)		1	80		80	$54.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.24	4000	37	148	25.16	$ 25.16	
12	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.77
13	1			BATHROOM	2L F34T12 PRISMATIC (2X4)		1	80		80	$54.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.24	4000	37	148	25.16	$ 25.16	
14	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.77
15	1			BOOK STORAGE	2L F34T12 PRISMATIC (2X4)		1	80		80	$54.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.24	4000	37	148	25.16	$ 25.16	
16	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.77
17	1		102	CLASSROOM	2L F34T12 WRAP		16	80	42	1280	$870.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 160.00	16	43	688	$467.84	4000	592	2368	402.56	$ 402.56	
18	1		102	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 140.35
19	1		104	CLASSROOM	2L F34T12 WRAP		16	80		1280	$870.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 160.00	16	43	688	$467.84	4000	592	2368	402.56	$ 402.56	
20	1		104	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 140.35
21	1		106	CLASSROOM	2L F34T12 WRAP		16	80	38	1280	$870.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 160.00	16	43	688	$467.84	4000	592	2368	402.56	$ 402.56	
22	1		106	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 140.35
23	1		108	CLASSROOM	2L F34T12 WRAP		16	80	38	1280	$870.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 160.00	16	43	688	$467.84	4000	592	2368	402.56	$ 402.56	
24	1		108	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 140.35
25	1		110	CLASSROOM	2L F34T12 WRAP		18	80		1440	$979.20	2L F32T8 25W RELAMP/REBALLAST	10	$ 180.00	18	43	774	$526.32	4000	666	2664	452.88	$ 452.88	
26	1		110	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 157.90
27	1		110	BATHROOM	60W A		1	60		60	$40.80	10W CFL		$ -	1	10	10	$6.80	4000	50	200	34	$ 34.00	
28	1		110	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 2.04
29	1		110	CLOSET	20W CFL		1	20		20	$13.60	NO MEASURE		$ -	1	20	20	$13.60	4000	0	0	0	$ -	
30	1		110	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 4.08
31	1		109	CLASSROOM	2L F34T12 WRAP		18	80	32	1440	$979.20	2L F32T8 25W RELAMP/REBALLAST	10	$ 180.00	18	43	774	$526.32	4000	666	2664	452.88	$ 452.88	
32	1		109	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 157.90
33	1		109	BATHROOM	60W A		1	60		60	$40.80	10W CFL		$ -	1	10	10	$6.80	4000	50	200	34	$ 34.00	
34	1		109	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 2.04
35	1		109	CLOSET	20W CFL		1	20		20	$13.60	NO MEASURE		$ -	1	20	20	$13.60	4000	0	0	0	$ -	
36	1		109	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 4.08
37	1		107	CLASSROOM	2L F34T12 WRAP		16	80		1280	$870.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 160.00	16	43	688	$467.84	4000	592	2368	402.56	$ 402.56	
38	1		107	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 140.35
39	1		105	CLASSROOM	2L F34T12 WRAP		16	80		1280	$870.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 160.00	16	43	688	$467.84	4000	592	2368	402.56	$ 402.56	
40	1		105	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 140.35
41	1		103	CLASSROOM	2L F34T12 WRAP		16	80		1280	$870.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 160.00	16	43	688	$467.84	4000	592	2368	402.56	$ 402.56	
42	1		103	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 140.35
43	1		101	CLASSROOM	2L F34T12 WRAP		16	80	32	1280	$870.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 160.00	16	43	688	$467.84	4000	592	2368	402.56	$ 402.56	
44	1		101	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 140.35
45	1			BOYS BATHROOM	2L F34T12 PRISMATIC (2X4)		2	80		160	$108.80	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.48	4000	74	296	50.32	$ 50.32	
46	1			BOYS BATHROOM	2L FB32T8 U6 (2X2)		2	80		160	$108.80	2L F17T8 17W RLRB/REFLECTOR KIT	30	$ 60.00	2	37	74	$50.32	4000	86	344	58.48	$ 58.48	
47	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 32.64
48	1			CUSTODIAN	60W A		1	60		60	$40.80	10W CFL		$ -	1	10	10	$6.80	4000	50	200	34	$ 34.00	
49	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 2.04
50	1			GIRLS BATHROOM	2L F34T12 PRISMATIC (2X4)		2	80		160	$108.80	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.48	4000	74	296	50.32	$ 50.32	
51	1			GIRLS BATHROOM	2L FB32T8 U6 (2X2)		1	80		80	$54.40	2L F17T8 17W RLRB/REFLECTOR KIT	30	$ 30.00	1	37	37	$25.16	4000	43	172	29.24	$ 29.24	
52	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 25.09
53	1			GYM	2L F32T8 (1X4)		56	60	50	3360	$2,284.80	2L F32T8 25W RELAMP		$ -	56	43	2408	$1,637.44	4000	952	3808	647.36	$ 647.36	
54	1			STORAGE 1	2L F32T8 (1X4)		2	60		120	$81.60	2L F32T8 25W RELAMP		$ -	2	43	86	$58.48	4000	34	136	23.12	$ 23.12	
55	1			STORAGE 2	20W CFL		2	20		40	$27.20	NO MEASURE		$ -	2	20	40	$27.20	4000	0	0	0	$ -	
56	1			FACULTY ROOM	2L F34T12 PRISMATIC (2X4)		5	80		400	$272.00	2L F32T8 25W RELAMP/REBALLAST	10	$ 50.00	5	43	215	$146.20	4000	185	740	125.8	$ 125.80	
57	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 43.86
58	1			FACULTY BATHROOM	2L F34T12 PRISMATIC (2X4)		1	80		80	$54.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.24	4000	37	148	25.16	$ 25.16	
59	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.77
60	1			FACULTY BATHROOM	2L F34T12 PRISMATIC (2X4)		1	80		80	$54.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.24	4000	37	148	25.16	$ 25.16	
61	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.77
62	1			BOILER	20W CFL		4	20		80	$54.40	NO MEASURE		$ -	4	20	80	$54.40	4000	0	0	0	$ -	
63	1			CUSTODIAL ROOM	20W CFL		4	20		80	$54.40	NO MEASURE		$ -	4	20	80	$54.40	4000	0	0	0	$ -	
64	1			SUPPLIES	20W CFL		2	20		40	$27.20	NO MEASURE		$ -	2	20	40	$27.20	4000	0	0	0	$ -	
65	1			BATHROOM	4L F34T12 (2X4)		1	160		160	$108.80	4L F32T8 25W RELAMP/REBALLAST	20	$ 20.00	1	86	86	$58.48	4000	74	296	50.32	$ 50.32	
66	1			BATHROOM	150W A		1	150		150	$102.00	27W CFL		$ -	1	27	27	$18.36	4000	123	492	83.64	$ 83.64	
67	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 23.05

UN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty.	Exist. Fix Wts.	Foot Candle	Total Fix Wts.	Existing An. Cost	Replacement Fixture Description	Ns Rebate Code	Ns Rebate Amount	Repl. Qty.	Repl. Fix Wts.	Total Fix Wts.	Proposed An. Cost	Opr. Hours	Fix Wts Saved	kWh Saved	0.15/kWh	Annual Elec. Savings	Annual Servs. Savings
68	1			BOYS BATHROOM	2L F34T12 PRISMATIC (2X4)		2	80		160	$108.80	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.48	4000	74	296	50.32	$ 50.32	
69	1			BOYS BATHROOM	20W CFL		1	20		20	$13.60	NO MEASURE		$ -	1	20	20	$13.60	4000	0	0	0	$ -	
70	1			CUSTODIAL CLOSET	2L F34T12 WRAP		1	80		80	$54.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$29.24	4000	37	148	25.16	$ 25.16	
71	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.77
72	1			GIRLS BATHROOM	2L F34T12 PRISMATIC (2X4)		2	80		160	$108.80	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.48	4000	74	296	50.32	$ 50.32	
73	1			GIRLS BATHROOM	20W CFL		1	20		20	$13.60	NO MEASURE		$ -	1	20	20	$13.60	4000	0	0	0	$ -	
74	1		210	CLASSROOM	3L F34T12 (2X4)		10	130		1300	$884.00	3L F32T8 25W RELAMP/REBALLAST	20	$ 200.00	10	66	660	$448.80	4000	640	2560	435.2	$ 435.20	
75	1		210	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 134.64
76	1		208	ROOM	2L F34T12 PRISMATIC (2X4)		2	80		160	$108.80	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.48	4000	74	296	50.32	$ 50.32	
77	1		208	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 17.54
78	1			LIBRARY	3L F34T12 (2X4)		36	130		4680	$3,182.40	3L F32T8 25W RELAMP/REBALLAST	20	$ 720.00	36	66	2376	$1,615.68	4000	2304	9216	1566.72	$ 1,566.72	
79	1		208	OFFICE	4L F34T12 (2X4)		2	160		320	$217.60	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.96	4000	148	592	100.64	$ 100.64	
80	1		208	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 35.09
81	1			LIBRARY OFFICE	4L F34T12 (2X4)		2	160		320	$217.60	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$116.96	4000	148	592	100.64	$ 100.64	
82	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 35.09
83	1		207	CLASSROOM	4L F34T12 (2X4)		3	160		480	$326.40	4L F32T8 25W RELAMP/REBALLAST	20	$ 60.00	3	86	258	$175.44	4000	222	888	150.96	$ 150.96	
84	1		207	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 52.63
85	1		206	CLASSROOM	4L F34T12 (2X4)		3	160		480	$326.40	4L F32T8 25W RELAMP/REBALLAST	20	$ 60.00	3	86	258	$175.44	4000	222	888	150.96	$ 150.96	
86	1		206	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 52.63
87	1		205	CLASSROOM	4L F34T12 (2X4)		3	160	31	480	$326.40	4L F32T8 25W RELAMP/REBALLAST	20	$ 60.00	3	86	258	$175.44	4000	222	888	150.96	$ 150.96	
88	1		205	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 52.63
89	1		204	COMPUTER LAB	3L F34T12 (2X4)		12	130		1560	$1,060.80	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$538.56	4000	768	3072	522.24	$ 522.24	
90	1		204	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 161.57
91	1		203	ART	2L F34T12 PRISMATIC (2X4)		2	80	20	160	$108.80	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.48	4000	74	296	50.32	$ 50.32	
92	1		203	ART	4L F34T12 (2X4)		9	160		1440	$979.20	4L F32T8 25W RELAMP/REBALLAST	20	$ 180.00	9	86	774	$526.32	4000	666	2664	452.88	$ 452.88	
93	1		203	ART	2L FB34T12 U6 (2X2)		1	80		80	$54.40	2L F17T8 17W RLRB/REFLECTOR KIT	30	$ 30.00	1	37	37	$25.16	4000	43	172	29.24	$ 29.24	
94	1		203	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 182.99
95	1			ELECTRICAL PANEL	60W A		1	60		60	$40.80	10W CFL		$ -	1	10	10	$6.80	4000	50	200	34	$ 34.00	
96	1		202	MUSIC	2L F34T12 PRISMATIC (2X4)		2	80	17	160	$108.80	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$58.48	4000	74	296	50.32	$ 50.32	
97	1		202	MUSIC	4L F34T12 (2X4)		9	160		1440	$979.20	4L F32T8 25W RELAMP/REBALLAST	20	$ 180.00	9	86	774	$526.32	4000	666	2664	452.88	$ 452.88	
98	1		202	MUSIC	2L FB34T12 U6 (2X2)		1	80		80	$54.40	2L F17T8 17W RLRB/REFLECTOR KIT	30	$ 30.00	1	37	37	$25.16	4000	43	172	29.24	$ 29.24	
99	1		202	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 182.99
100	1			HALL	2L F34T12 PRISMATIC (2X4)		11	80		880	$598.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 110.00	11	43	473	$321.64	4000	407	1628	276.76	$ 276.76	
101	1			CHAIR STORAGE	2L F32T8 INDUSTRIAL		4	60		240	$163.20	2L F32T8 25W RELAMP		$ -	4	43	172	$116.96	4000	68	272	46.24	$ 46.24	
102	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 35.09
103	1			GYM	250W MH HID		15	288	35	4320	$2,937.60	4L T5HO ELB/HBF HIGH BAY FIXTURE	50	$ 750.00	15	234	3510	$2,386.80	4000	810	3240	550.8	$ 550.80	
104	1			GYM	EXIT 2L CFL		4	14		56	$83.40	LED EXIT SIGN	20	$ 80.00	4	3	12	$17.87	8760	44	385.44	65.5248	$ 65.52	
105	1			GYM OFFICE	4L F32T8 (2X4)		2	112		224	$152.32	4L F32T8 25W RELAMP		$ -	2	86	172	$116.96	4000	52	208	35.36	$ 35.36	
106	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 35.09
107	1			BOYS BATHROOM	2L F32T8 STRIP		4	60		240	$163.20	2L F32T8 25W RELAMP		$ -	4	43	172	$116.96	4000	68	272	46.24	$ 46.24	
108	1			BOYS BATHROOM	2L F32T8 (2X4)		2	60		120	$81.60	2L F32T8 25W RELAMP		$ -	2	43	86	$58.48	4000	34	136	23.12	$ 23.12	
109	1			CUSTODIAL	2L F32T8 INDUSTRIAL		1	60		60	$40.80	2L F32T8 25W RELAMP		$ -	1	43	43	$29.24	4000	17	68	11.56	$ 11.56	
110	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.77
111	1			GIRLS BATHROOM	2L F32T8 STRIP		6	60		360	$244.80	2L F32T8 25W RELAMP		$ -	6	43	258	$175.44	4000	102	408	69.36	$ 69.36	
112	1			GIRLS BATHROOM	2L F32T8 (2X4)		2	60		120	$81.60	2L F32T8 25W RELAMP		$ -	2	43	86	$58.48	4000	34	136	23.12	$ 23.12	
113	1			STAFF BATHROOM	2L F32T8 (2X4)		1	60		60	$40.80	2L F32T8 25W RELAMP		$ -	1	43	43	$29.24	4000	17	68	11.56	$ 11.56	
114	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.77
115	1			COPIER	2L F32T8 INDUSTRIAL		2	60		120	$81.60	2L F32T8 25W RELAMP		$ -	2	43	86	$58.48	4000	34	136	23.12	$ 23.12	
116	1		301	CLASSROOM	3L F32T8 (2X4)		12	88	40	1056	$718.08	3L F32T8 25W RELAMP		$ -	12	66	792	$538.56	4000	264	1056	179.52	$ 179.52	
117	1		301	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 161.57
118	1		303	CLASSROOM	3L F32T8 (2X4)		12	88	41	1056	$718.08	3L F32T8 25W RELAMP		$ -	12	66	792	$538.56	4000	264	1056	179.52	$ 179.52	
119	1		303	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 161.57
120	1		305	CLASSROOM	3L F32T8 (2X4)		12	88	37	1056	$718.08	3L F32T8 25W RELAMP		$ -	12	66	792	$538.56	4000	264	1056	179.52	$ 179.52	
121	1		305	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 161.57
122	1		307	CLASSROOM	3L F32T8 (2X4)		12	88	38	1056	$718.08	3L F32T8 25W RELAMP		$ -	12	66	792	$538.56	4000	264	1056	179.52	$ 179.52	
123	1		307	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 161.57
124	1		309	CLASSROOM	3L F32T8 (2X4)		12	88	37	1056	$718.08	3L F32T8 25W RELAMP		$ -	12	66	792	$538.56	4000	264	1056	179.52	$ 179.52	
125	1		309	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 161.57
126	1		302	CLASSROOM	3L F32T8 (2X4)		12	88		1056	$718.08	3L F32T8 25W RELAMP		$ -	12	66	792	$538.56	4000	264	1056	179.52	$ 179.52	
127	1		302	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 161.57
128	1		304	CLASSROOM	3L F32T8 (2X4)		12	88		1056	$718.08	3L F32T8 25W RELAMP		$ -	12	66	792	$538.56	4000	264	1056	179.52	$ 179.52	
129	1		304	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 161.57
130	1		302	CLASSROOM	3L F32T8 (2X4)		12	88		1056	$718.08	3L F32T8 25W RELAMP		$ -	12	66	792	$538.56	4000	264	1056	179.52	$ 179.52	
131	1		302	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 161.57
132	1			HALL	EXIT 2L CFL		11	14		154	$229.34	LED EXIT SIGN	20	$ 220.00	11	3	33	$49.14	8760	121	1059.96	180.1932	$ 180.19	
133	1			HALL	2L F32T8 (2X4)		36	60		2160	$1,468.80	2L F32T8 25W RELAMP		$ -	36	43	1548	$1,052.64	4000	612	2448	416.16	$ 416.16	
										53,208	$36,351.37			$ 6,565.00				**KW SAVED >>>>**		**20.34**	**82149.4**	**13965.398**	**$ 13,965.40**	**$ 3,962.09**

Electric Rate: $0.17

32867 $22,385.9740

Total Cost Savings $ 17,927.49

Total kWh Savings 105,455.80

Name:	PEQUANNOCK TOWNSHIP- HILLVIEW SCHOOL
Address:	538 Newark Pompton Turnpike
City, St.	Pompton Plains, NJ 07444
Contact:	Steven DiGeronimo
Phone:	973-616-6030

																		NON UNION	
LN #	FL #	Replacement Fixture Description	Repl Qty.	qty fix	Fixture / Ballast	cost fix.	qty lmp	Lamp / Sensor	cost lmp	qty ref	Reflector / PowerPack	cost ref	Ballast/Fix. Cost Total	Lamp Cost Total	REFLECT. Cost Total	Material Sell Total	Labor Cost	Labor Tot. Cost
1	1	2L F32T8 25W RELAMP/REBALLAST	9	9	2L ELB/NBF BALLAST	$ 12.00	18	F32T8 25W LAMP	$ 3.00	9		$ -	$ 108.00	$ 54.00	$ -	$ 210.60	$ 25.00	$ 225.00
2	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
3	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
4	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
5	1	2L F32T8 25W RELAMP/REBALLAST	6	6	2L ELB/NBF BALLAST	$ 12.00	12	F32T8 25W LAMP	$ 3.00	6		$ -	$ 72.00	$ 36.00	$ -	$ 140.40	$ 25.00	$ 150.00
6	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
7	1	4L F32T8 25W RELAMP	3	3		$ -	12	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 36.00
8	1	2L F32T8 25W RELAMP	6	6		$ -	12	F32T8 25W LAMP	$ 3.00	6		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 72.00
9	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
10	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
11	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
12	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
13	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
14	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
15	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
16	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
17	1	2L F32T8 25W RELAMP/REBALLAST	16	16	2L ELB/NBF BALLAST	$ 12.00	32	F32T8 25W LAMP	$ 3.00	16		$ -	$ 192.00	$ 96.00	$ -	$ 374.40	$ 25.00	$ 400.00
18	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
19	1	2L F32T8 25W RELAMP/REBALLAST	16	16	2L ELB/NBF BALLAST	$ 12.00	32	F32T8 25W LAMP	$ 3.00	16		$ -	$ 192.00	$ 96.00	$ -	$ 374.40	$ 25.00	$ 400.00
20	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
21	1	2L F32T8 25W RELAMP/REBALLAST	16	16	2L ELB/NBF BALLAST	$ 12.00	32	F32T8 25W LAMP	$ 3.00	16		$ -	$ 192.00	$ 96.00	$ -	$ 374.40	$ 25.00	$ 400.00
22	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
23	1	2L F32T8 25W RELAMP/REBALLAST	16	16	2L ELB/NBF BALLAST	$ 12.00	32	F32T8 25W LAMP	$ 3.00	16		$ -	$ 192.00	$ 96.00	$ -	$ 374.40	$ 25.00	$ 400.00
24	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
25	1	2L F32T8 25W RELAMP/REBALLAST	18	18	2L ELB/NBF BALLAST	$ 12.00	36	F32T8 25W LAMP	$ 3.00	18		$ -	$ 216.00	$ 108.00	$ -	$ 421.20	$ 25.00	$ 450.00
26	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
27	1	10W CFL	1	1		$ -	1	10W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
28	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
29	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
30	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
31	1	2L F32T8 25W RELAMP/REBALLAST	18	18	2L ELB/NBF BALLAST	$ 12.00	36	F32T8 25W LAMP	$ 3.00	18		$ -	$ 216.00	$ 108.00	$ -	$ 421.20	$ 25.00	$ 450.00
32	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
33	1	10W CFL	1	1		$ -	1	10W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
34	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
35	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
36	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
37	1	2L F32T8 25W RELAMP/REBALLAST	16	16	2L ELB/NBF BALLAST	$ 12.00	32	F32T8 25W LAMP	$ 3.00	16		$ -	$ 192.00	$ 96.00	$ -	$ 374.40	$ 25.00	$ 400.00
38	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
39	1	2L F32T8 25W RELAMP/REBALLAST	16	16	2L ELB/NBF BALLAST	$ 12.00	32	F32T8 25W LAMP	$ 3.00	16		$ -	$ 192.00	$ 96.00	$ -	$ 374.40	$ 25.00	$ 400.00
40	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
41	1	2L F32T8 25W RELAMP/REBALLAST	16	16	2L ELB/NBF BALLAST	$ 12.00	32	F32T8 25W LAMP	$ 3.00	16		$ -	$ 192.00	$ 96.00	$ -	$ 374.40	$ 25.00	$ 400.00
42	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
43	1	2L F32T8 25W RELAMP/REBALLAST	16	16	2L ELB/NBF BALLAST	$ 12.00	32	F32T8 25W LAMP	$ 3.00	16		$ -	$ 192.00	$ 96.00	$ -	$ 374.40	$ 25.00	$ 400.00
44	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
45	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
46	1	2L F17T8 17W RLRB/REFLECTOR KIT 2X2	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F17T8 17W LAMP	$ 3.00	2	M4 REFLECTOR KIT (2X2)	$ 12.00	$ 24.00	$ 12.00	$ 24.00	$ 78.00	$ 35.00	$ 70.00
47	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
48	1	10W CFL	1	1		$ -	1	10W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
49	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
50	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
51	1	2L F17T8 17W RLRB/REFLECTOR KIT 2X2	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F17T8 17W LAMP	$ 3.00	1	M4 REFLECTOR KIT (2X2)	$ 12.00	$ 12.00	$ 6.00	$ 12.00	$ 39.00	$ 35.00	$ 35.00
52	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
53	1	2L F32T8 25W RELAMP	56	56		$ -	112	F32T8 25W LAMP	$ 3.00	56		$ -	$ -	$ 336.00	$ -	$ 436.80	$ 12.00	$ 672.00
54	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
55	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
56	1	2L F32T8 25W RELAMP/REBALLAST	5	5	2L ELB/NBF BALLAST	$ 12.00	10	F32T8 25W LAMP	$ 3.00	5		$ -	$ 60.00	$ 30.00	$ -	$ 117.00	$ 25.00	$ 125.00
57	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
58	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
59	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
60	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
61	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
62	1	NO MEASURE	4	4		$ -	4		$ -	4		$ -	$ -	$ -	$ -	$ -	$ -	$ -
63	1	NO MEASURE	4	4		$ -	4		$ -	4		$ -	$ -	$ -	$ -	$ -	$ -	$ -
64	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
65	1	4L F32T8 25W RELAMP/REBALLAST	1	1	4L ELB/NBF BALLAST	$ 15.00	4	F32T8 25W LAMP	$ 3.00	1		$ -	$ 15.00	$ 12.00	$ -	$ 35.10	$ 25.00	$ 25.00
66	1	27W CFL	1	1		$ -	1	27W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
67	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00

LN #	FL #	Replacement Fixture Description	Repl. Qty	qty fix	Fixture / Ballast	cost fix	qty lmp	Lamp / Sensor	cost lmp	qty ref	Reflector / PowerPack	cost ref	Ballast/Fix. Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	Labor Cost	Labor Tot. Cost
68	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
69	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
70	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
71	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
72	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
73	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
74	1	3L F32T8 25W RELAMP/REBALLAST	10	10	4L ELB/NBF BALLAST	$ 15.00	30	F32T8 25W LAMP	$ 3.00	10		$ -	$ 150.00	$ 90.00	$ -	$ 312.00	$ 25.00	$ 250.00
75	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
76	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
77	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
78	1	3L F32T8 25W RELAMP/REBALLAST	36	36	4L ELB/NBF BALLAST	$ 15.00	108	F32T8 25W LAMP	$ 3.00	36		$ -	$ 540.00	$ 324.00	$ -	$ 1,123.20	$ 25.00	$ 900.00
79	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
80	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
81	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
82	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
83	1	4L F32T8 25W RELAMP/REBALLAST	3	3	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	3		$ -	$ 45.00	$ 36.00	$ -	$ 105.30	$ 25.00	$ 75.00
84	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
85	1	4L F32T8 25W RELAMP/REBALLAST	3	3	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	3		$ -	$ 45.00	$ 36.00	$ -	$ 105.30	$ 25.00	$ 75.00
86	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
87	1	4L F32T8 25W RELAMP/REBALLAST	3	3	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	3		$ -	$ 45.00	$ 36.00	$ -	$ 105.30	$ 25.00	$ 75.00
88	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
89	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
90	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
91	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
92	1	4L F32T8 25W RELAMP/REBALLAST	9	9	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	9		$ -	$ 135.00	$ 108.00	$ -	$ 315.90	$ 25.00	$ 225.00
93	1	2L F17T8 17W RLRB/REFLECTOR KIT 2X2	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F17T8 17W LAMP	$ 3.00	1	M4 REFLECTOR KIT (2X2)	$ 12.00	$ 12.00	$ 6.00	$ 12.00	$ 39.00	$ 35.00	$ 35.00
94	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
95	1	10W CFL	1	1		$ -	1	10W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
96	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
97	1	4L F32T8 25W RELAMP/REBALLAST	9	9	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	9		$ -	$ 135.00	$ 108.00	$ -	$ 315.90	$ 25.00	$ 225.00
98	1	2L F17T8 17W RLRB/REFLECTOR KIT 2X2	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F17T8 17W LAMP	$ 3.00	1	M4 REFLECTOR KIT (2X2)	$ 12.00	$ 12.00	$ 6.00	$ 12.00	$ 39.00	$ 35.00	$ 35.00
99	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
100	1	2L F32T8 25W RELAMP/REBALLAST	11	11	2L ELB/NBF BALLAST	$ 12.00	22	F32T8 25W LAMP	$ 3.00	11		$ -	$ 132.00	$ 66.00	$ -	$ 257.40	$ 25.00	$ 275.00
101	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
102	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
103	1	4L T5HO ELB/HBF HIGH BAY FIXTURE	15	15	4L T5HO HIGH BAY FIXTURE	$175.00	15		$ -	15		$ -	$ 2,625.00	$ -	$ -	$ 3,412.50	$ 75.00	$ 1,125.00
104	1	LED EXIT SIGN	4	4	LED EXIT SIGN	$ 55.00	4		$ -	4		$ -	$ 220.00	$ -	$ -	$ 286.00	$ 35.00	$ 140.00
105	1	4L F32T8 25W RELAMP	2	2		$ -	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 24.00
106	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
107	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
108	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
109	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
110	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
111	1	2L F32T8 25W RELAMP	6	6		$ -	12	F32T8 25W LAMP	$ 3.00	6		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 72.00
112	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
113	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
114	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
115	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
116	1	3L F32T8 25W RELAMP	12	12		$ -	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 144.00
117	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
118	1	3L F32T8 25W RELAMP	12	12		$ -	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 144.00
119	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
120	1	3L F32T8 25W RELAMP	12	12		$ -	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 144.00
121	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
122	1	3L F32T8 25W RELAMP	12	12		$ -	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 144.00
123	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
124	1	3L F32T8 25W RELAMP	12	12		$ -	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 144.00
125	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
126	1	3L F32T8 25W RELAMP	12	12		$ -	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 144.00
127	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
128	1	3L F32T8 25W RELAMP	12	12		$ -	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 144.00
129	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
130	1	3L F32T8 25W RELAMP	12	12		$ -	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 144.00
131	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
132	1	LED EXIT SIGN	11	11	LED EXIT SIGN	$ 55.00	11		$ -	11		$ -	$ 605.00	$ -	$ -	$ 786.50	$ 35.00	$ 385.00
133	1	2L F32T8 25W RELAMP	36	36		$ -	72	F32T8 25W LAMP	$ 3.00	36		$ -	$ -	$ 216.00	$ -	$ 280.80	$ 12.00	$ 432.00
													$ 7,494.00	$ 7,753.00	$ 935.00	$ 21,036.60	Total	$ 14,671.00
															With Tax	$ 22,509.16	CONT	$ -
																	Equipment	$ -
																	Total Labor:	$ 19,072.30
																	Total project	$ 41,581.46

NEW JERSEY SMART START REBATE	$ 6,565.00

LIGHTING INVENTORY SUMMARY
Pequannock Township Board of Education - North Boulevard
538 Newark Pompton Turnpike
Pompton Plains, NJ 07444

EXECUTIVE SUMMARY

ENERGY DATA

Existing Energy Usage (Watts)		66,860
Proposed Energy Usage (Watts)		35,896
Energy Saved (Watts)		30,964
Annual Kilowatt Hours Saved (kWh)		149,159

FINANCIAL DATA

Annual Existing Energy Cost	$	44,686.33
Annual Proposed Energy Cost	$	23,980.91
Annual Energy Savings	$	20,705.41
Additional Energy Savings (Occupancy Sensors)	$	4,204.19
Total Energy Savings	$	24,909.61
Initial Project Cost	$	55,994.29
Utility Rebate (Based on NJ Smart Start Approval)	$	10,807.00
Project Cost	$	45,187.29

CASH FLOW SUMMARY

Return On Investment (R.O.I.)		46%
Payback (Years)		2.18
10 Year Savings	$	207,054.15
10-Year Cumulative Positive Cash Flow	$	161,866.86

Pequannock Township Board of Education - North Boulevar
538 Newark Pompton Turnpike
Pompton Plains, NJ 07444

New Jersey

Steven DiGeronimo
973-616-6030

UTILITY ACCOUNT NUMBER	N/A
BUILDING TYPE	Educational
SQUARE FOOTAGE	46,908

LN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty.	Exist. Fix Wts.	Foot Candle	Total Fix Wts.	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl. Qty.	Repl. Fix Wts.	Total Fix Wts.	Proposed An. Cost	Opr. Hours	Fix Wts. Saved	kWh Saved	0.15/kWh	Annual Elec. Savings	Annual Sens. Savings
1	1			MAIN OFFICE OPEN AREA	2L F34T12 WRAP		10	80		800	$534.40	2L F32T8 25W RELAMP/REBALLAST	10	$ 100.00	10	43	430	$287.24	4000	370	1480	247.16	$ 247.16	
2	1			SUPPLY ROOM	2L F34T12 WRAP		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
3	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.62
4	1			CLOSET	100W A		1	100		100	$66.80	20W CFL		$ -	1	20	20	$13.36	4000	80	320	53.44	$ 53.44	
5	1			PRINCIPALS OFFICE	2L F34T12 WRAP		4	80		320	$213.76	2L F32T8 25W RELAMP/REBALLAST	10	$ 40.00	4	43	172	$114.90	4000	148	592	98.864	$ 98.86	
6	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 34.47
7	1			PRINCIPALS BATHROOM	2L F34T12 WRAP		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
8	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.62
9	1			LOUNGE	2L F34T12 WRAP		6	80		480	$320.64	2L F32T8 25W RELAMP/REBALLAST	10	$ 60.00	6	43	258	$172.34	4000	222	888	148.296	$ 148.30	
10	1			COPY ROOM	2L F34T12 WRAP		4	80		320	$213.76	2L F32T8 25W RELAMP/REBALLAST	10	$ 40.00	4	43	172	$114.90	4000	148	592	98.864	$ 98.86	
11	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 34.47
12	1			BATHROOM 1	2L F34T12 WRAP		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
13	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.62
14	1			BATHROOM 2	2L F34T12 WRAP		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
15	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.62
16	1		105	CONFERENCE ROOM	2L F34T12 WRAP		6	80		480	$320.64	2L F32T8 25W RELAMP/REBALLAST	10	$ 60.00	6	43	258	$172.34	4000	222	888	148.296	$ 148.30	
17	1		105	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 51.70
18	1		103	CLASSROOM	2L F34T12 WRAP		20	80		1600	$1,068.80	2L F32T8 25W RELAMP/REBALLAST	10	$ 200.00	20	43	860	$574.48	4000	740	2960	494.32	$ 494.32	
19	1		103	BATHROOM	2L F34T12 WRAP		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
20	1		103	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.62
21	1			BACK ENTRANCE	2L F34T12 (2X4)		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
22	1		101	CLASSROOM	2L F34T12 WRAP		20	80		1600	$1,068.80	2L F32T8 25W RELAMP/REBALLAST	10	$ 200.00	20	43	860	$574.48	4000	740	2960	494.32	$ 494.32	
23	1		101	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 172.34
24	1		101	BATHROOM	2L F34T12 WRAP		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
25	1			GYM	250W HID		15	288		4320	$2,885.76	4L T5HO ELB/HBF HIGH BAY FIXTURE	50	$ 750.00	15	234	3510	$2,344.68	4000	810	3240	541.08	$ 541.08	
26	1			STORAGE 1	2L F34T12 (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
27	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 17.23
28	1			STORAGE 2	2L F32T8 IND		3	80		240	$160.32	2L F32T8 25W RELAMP/REBALLAST	10	$ 30.00	3	43	129	$86.17	4000	111	444	74.148	$ 74.15	
29	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 25.85
30	1		124	CLASSROOM	3L F32T8 PRISMATIC (2X4)		12	130	42	1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
31	1		124	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
32	1		126	CLASSROOM	3L F32T8 PRISMATIC (2X4)		12	130		1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
33	1		126	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
34	1		128	CLASSROOM	3L F32T8 PRISMATIC (2X4)		12	130		1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
35	1		128	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
36	1		129	CLASSROOM	3L F32T8 PRISMATIC (2X4)		12	130	46	1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
37	1		129	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
38	1		127	CLASSROOM	3L F32T8 PRISMATIC (2X4)		12	130	47	1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
39	1		127	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
40	1		125	CLASSROOM	3L F32T8 PRISMATIC (2X4)		12	130	42	1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
41	1		125	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
42	1			MECHANICAL	2L F32T8 IND		3	80		240	$160.32	2L F32T8 25W RELAMP/REBALLAST	10	$ 30.00	3	43	129	$86.17	4000	111	444	74.148	$ 74.15	
43	1			GIRLS BATHROOM	2L F32T8 IND		3	80		240	$160.32	2L F32T8 25W RELAMP/REBALLAST	10	$ 30.00	3	43	129	$86.17	4000	111	444	74.148	$ 74.15	
44	1			GIRLS BATHROOM	2L F32T8 PRIS (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
45	1			STAFF BATHROOM	2L F32T8 PRIS (2X4)		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
46	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.62
47	1			BOYS BATHROOM	2L F32T8 IND		3	80		240	$160.32	2L F32T8 25W RELAMP/REBALLAST	10	$ 30.00	3	43	129	$86.17	4000	111	444	74.148	$ 74.15	
48	1			BOYS BATHROOM	2L F32T8 PRIS (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
49	1			RESOURCE	2L F32T8 (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
50	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 17.23
51	1			CUSTODIAL	2L F32T8 IND		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
52	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 8.62
53	1			HALL	2L F32T8 (2X4)		22	80		1760	$1,175.68	2L F32T8 25W RELAMP/REBALLAST	10	$ 220.00	22	43	946	$631.93	4000	814	3256	543.752	$ 543.75	
54	1		102	CLASSROOM	2L F34T12 WRAP		13	80		1040	$694.72	2L F32T8 25W RELAMP/REBALLAST	10	$ 130.00	13	43	559	$373.41	4000	481	1924	321.308	$ 321.31	
55	1		102	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 112.02
56	1		102	CLASSROOM	100W A		1	100		100	$66.80	20W CFL		$ -	1	20	20	$13.36	4000	80	320	53.44	$ 53.44	
57	1		104	CLASSROOM	2L F34T12 WRAP		13	80	25	1040	$694.72	2L F32T8 25W RELAMP/REBALLAST	10	$ 130.00	13	43	559	$373.41	4000	481	1924	321.308	$ 321.31	
58	1		104	CLASSROOM	100W A		1	100		100	$66.80	20W CFL		$ -	1	20	20	$13.36	4000	80	320	53.44	$ 53.44	
59	1			STORAGE	4L F32T8 WRAP		2	160		320	$213.76	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$114.90	4000	148	592	98.864	$ 98.86	
60	1			CAFETERIA	175W HID SURF MOUNT		24	205		4920	$3,286.56	2L T5HO ELB/HBF HIGH BAY FIXTURE	43	$ 1,032.00	24	119	2856	$1,907.81	4000	2064	8256	1378.752	$ 1,378.75	
61	1			CAFETERIA	75W PAR30		12	75		900	$601.20	15W PAR30 CFL		$ -	12	15	180	$120.24	4000	720	2880	480.96	$ 480.96	
62	1			BOILER ROOM	100W A		6	100		600	$400.80	20W CFL		$ -	6	20	120	$80.16	4000	480	1920	320.64	$ 320.64	
63	1			MECHANICAL/ELECTRICAL	2L F32T8 WRAP		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
64	1			HALL	2L F32T8 WRAP		1	80		80	$53.44	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	37	148	24.716	$ 24.72	
65	1			BOYS BATHROOM	2L F34T12 WRAP		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
66	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 17.23
67	1			GIRLS BATHROOM	2L F34T12 WRAP		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	

LN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty	Exist. Fix Wts	Foot Candle	Total Fix Wts	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl. Qty	Repl. Fix Wts	Total Fix Wts	Proposed An. Cost	Opr. Hours	Fix Wts Saved	kWh Saved	0.15/kWh	Annual Elec Savings	Annual Sens Savings
68	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 17.23
69	1		109	CLASSROOM	2L F34T12 WRAP		14	80	37	1120	$748.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 140.00	14	43	602	$402.14	4000	518	2072	346.024	$ 346.02	
70	1		109	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 120.64
71	1		109	CLASSROOM	100W A		1	100		100	$66.80	20W CFL		$ -	1	20	20	$13.36	4000	80	320	53.44	$ 53.44	
72	1		106	CLASSROOM	2L F34T12 WRAP		14	80	39	1120	$748.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 140.00	14	43	602	$402.14	4000	518	2072	346.024	$ 346.02	
73	1		106	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 120.64
74	1		106	CLASSROOM	100W A		1	100		100	$66.80	20W CFL		$ -	1	20	20	$13.36	4000	80	320	53.44	$ 53.44	
75	1		108	CLASSROOM	2L F34T12 WRAP		14	80	43	1120	$748.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 140.00	14	43	602	$402.14	4000	518	2072	346.024	$ 346.02	
76	1		108	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 120.64
77	1		108	CLASSROOM	100W A		1	100		100	$66.80	20W CFL		$ -	1	20	20	$13.36	4000	80	320	53.44	$ 53.44	
78	1		111	CLASSROOM	2L F34T12 WRAP		14	80	39	1120	$748.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 140.00	14	43	602	$402.14	4000	518	2072	346.024	$ 346.02	
79	1		111	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 120.64
80	1		109	CLASSROOM	2L F34T12 WRAP		14	80		1120	$748.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 140.00	14	43	602	$402.14	4000	518	2072	346.024	$ 346.02	
81	1		109	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 120.64
82	1			DISPLAY CASE	1L F34T12 STRIP		1	50		50	$33.40	1L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	22	22	$14.70	4000	28	112	16.704	$ 16.70	
83	1			HALL	2L F34T12 (2X4)		21	80		1680	$1,122.24	2L F32T8 25W RELAMP/REBALLAST	10	$ 210.00	21	43	903	$603.20	4000	777	3108	519.036	$ 519.04	
84	1		110	MUSIC	3L F34T12 (2X4)		12	130		1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
85	1		110	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
86	1		110	CLOSET	2L F34T12 (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
87	1		110	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 17.23
88	1		112	ART	3L F34T12 (2X4)		12	130	33	1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
89	1		112	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
90	1		112	CLOSET	2L F34T12 (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
91	1		112	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 17.23
92	1		114A	READING	2L F34T12 (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
93	1		114B	OFFICE	4L F34T12 (2X4)		2	160		320	$213.76	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$114.90	4000	148	592	98.864	$ 98.86	
94	1			MEDIA CENTER/ LIBRARY	2L F34T12 (2X4)		36	80	34	2880	$1,923.84	2L F32T8 25W RELAMP/REBALLAST	10	$ 360.00	36	43	1548	$1,034.06	4000	1332	5328	889.776	$ 889.78	
95	1			MEDIA CENTER/ LIBRARY	EXIT 30w INC		1	30		30	$43.89	NEW LED EXIT SIGN	20	$ 20.00	1	3	3	$4.39	8760	27	236.52	39.49884	$ 39.50	
96	1			SENSOR SAVINGS	CEILING		3			0	$0.00	O/S CEILING	35	$ 105.00	3			$0.00						$ 310.22
97	1		114C	OFFICE	4L F34T12 (2X4)		2	160		320	$213.76	4L F32T8 25W RELAMP/REBALLAST	20	$ 40.00	2	86	172	$114.90	4000	148	592	98.864	$ 98.86	
98	1		114C	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 34.47
99	1		116	TECH ROOM	4L F34T12 (2X4)		12	160		1920	$1,282.56	4L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	86	1032	$689.38	4000	888	3552	593.184	$ 593.18	
100	1		116	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 206.81
101	1		118	CLASSROOM	3L F34T12 (2X4)		12	130		1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
102	1		118	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
103	1		120	CLASSROOM	3L F34T12 (2X4)		12	130		1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
104	1		120	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
105	1		122	CLASSROOM	3L F34T12 (2X4)		12	130		1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
106	1		122	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
107	1		123	CLASSROOM	3L F34T12 (2X4)		12	130		1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
108	1		123	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
109	1		121	CLASSROOM	3L F34T12 (2X4)		12	130		1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
110	1		121	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
111	1			STORAGE 1	2L F34T12 (2X4)		3	80		240	$160.32	2L F32T8 25W RELAMP/REBALLAST	10	$ 30.00	3	43	129	$86.17	4000	111	444	74.148	$ 74.15	
112	1			STORAGE 2	2L F34T12 (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
113	1			GIRLS BATHROOM	2L F34T12 (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
114	1			BOYS BATHROOM	2L F34T12 (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
115	1		119	CLASSROOM	3L F34T12 (2X4)		9	130	31	1170	$781.56	3L F32T8 25W RELAMP/REBALLAST	20	$ 180.00	9	66	594	$396.79	4000	576	2304	384.768	$ 384.77	
116	1		119	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 119.04
117	1		117	CLASSROOM	3L F34T12 (2X4)		12	130	39	1560	$1,042.08	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	768	3072	513.024	$ 513.02	
118	1		117	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 158.72
119	1		115	SPEECH CLASSROOM	3L F34T12 (2X4)		6	130		780	$521.04	3L F32T8 25W RELAMP/REBALLAST	20	$ 120.00	6	66	396	$264.53	4000	384	1536	256.512	$ 256.51	
120	1		115	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 79.36
121	1			CUSTODIAL	2L F34T12 (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
122	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 17.23
123	1			STORAGE	2L F34T12 (2X4)		2	80		160	$106.88	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	74	296	49.432	$ 49.43	
124	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 17.23
125	1			HALL	2L F34T12 (2X4)		22	80		1760	$1,175.68	2L F32T8 25W RELAMP/REBALLAST	10	$ 220.00	22	43	946	$631.93	4000	814	3256	543.752	$ 543.75	
126	1			HALL	4L F34T12 (2X4)		19	160		3040	$2,030.72	4L F32T8 25W RELAMP/REBALLAST	20	$ 380.00	19	86	1634	$1,091.51	4000	1406	5624	939.208	$ 939.21	
127	1			DISPLAY CASE	1L F34T12 STRIP		1	50		50	$33.40	1L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	22	22	$14.70	4000	28	112	18.704	$ 18.70	
										66,860	$44,686.33			$ 10,807.00		35896	$23,980.9128	KW SAVED >>>>	30.96	123984.52	20705.4148	$ 20,705.41	$ 4,204.19

Electric Rate: $0.167

Total Cost Savings $ 24,909.61

Total kWh Savings 149,159.32

Name:	Pequannock Township Board of Education - North Boulevard
Address:	538 Newark Pompton Turnpike
City, St.	Pompton Plains, NJ 07444
Contact:	Steven DiGeronimo
Phone:	973-616-6030

																		NON UNION	
LN #	FL #	Replacement Fixture Description	Repl Qty	qty fix	Fixture / Ballast	cost fix	qty lmp	Lamp / Sensor	cost lmp	qty ref	Reflector / PowerPack	cost ref	Ballast/Fix. Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	Labor Cost	Labor Tot. Cost
1	1	2L F32T8 25W RELAMP/REBALLAST	10	10	2L ELB/NBF BALLAST	$ 12.00	20	F32T8 25W LAMP	$ 3.00	10		$ -	$ 120.00	$ 60.00	$ -	$ 234.00	$ 25.00	$ 250.00
2	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
3	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
4	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
5	1	2L F32T8 25W RELAMP/REBALLAST	4	4	2L ELB/NBF BALLAST	$ 12.00	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ 48.00	$ 24.00	$ -	$ 93.60	$ 25.00	$ 100.00
6	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
7	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
8	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
9	1	2L F32T8 25W RELAMP/REBALLAST	6	6	2L ELB/NBF BALLAST	$ 12.00	12	F32T8 25W LAMP	$ 3.00	6		$ -	$ 72.00	$ 36.00	$ -	$ 140.40	$ 25.00	$ 150.00
10	1	2L F32T8 25W RELAMP/REBALLAST	4	4	2L ELB/NBF BALLAST	$ 12.00	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ 48.00	$ 24.00	$ -	$ 93.60	$ 25.00	$ 100.00
11	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
12	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
13	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
14	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
15	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
16	1	2L F32T8 25W RELAMP/REBALLAST	6	6	2L ELB/NBF BALLAST	$ 12.00	12	F32T8 25W LAMP	$ 3.00	6		$ -	$ 72.00	$ 36.00	$ -	$ 140.40	$ 25.00	$ 150.00
17	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
18	1	2L F32T8 25W RELAMP/REBALLAST	20	20	2L ELB/NBF BALLAST	$ 12.00	40	F32T8 25W LAMP	$ 3.00	20		$ -	$ 240.00	$ 120.00	$ -	$ 468.00	$ 25.00	$ 500.00
19	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
20	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
21	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
22	1	2L F32T8 25W RELAMP/REBALLAST	20	20	2L ELB/NBF BALLAST	$ 12.00	40	F32T8 25W LAMP	$ 3.00	20		$ -	$ 240.00	$ 120.00	$ -	$ 468.00	$ 25.00	$ 500.00
23	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
24	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
25	1	4L T5HO ELB/HBF HIGH BAY FIXTURE	15	15	4L T5HO HIGH BAY FIXT	$175.00	15		$ -	15		$ -	$ 2,625.00	$ -	$ -	$ 3,412.50	$ 75.00	$ 1,125.00
26	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
27	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
28	1	2L F32T8 25W RELAMP/REBALLAST	3	3	2L ELB/NBF BALLAST	$ 12.00	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ 36.00	$ 18.00	$ -	$ 70.20	$ 25.00	$ 75.00
29	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
30	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
31	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
32	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
33	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
34	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
35	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
36	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
37	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
38	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
39	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
40	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
41	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
42	1	2L F32T8 25W RELAMP/REBALLAST	3	3	2L ELB/NBF BALLAST	$ 12.00	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ 36.00	$ 18.00	$ -	$ 70.20	$ 25.00	$ 75.00
43	1	2L F32T8 25W RELAMP/REBALLAST	3	3	2L ELB/NBF BALLAST	$ 12.00	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ 36.00	$ 18.00	$ -	$ 70.20	$ 25.00	$ 75.00
44	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
45	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
46	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
47	1	2L F32T8 25W RELAMP/REBALLAST	3	3	2L ELB/NBF BALLAST	$ 12.00	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ 36.00	$ 18.00	$ -	$ 70.20	$ 25.00	$ 75.00
48	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
49	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
50	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
51	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
52	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
53	1	2L F32T8 25W RELAMP/REBALLAST	22	22	2L ELB/NBF BALLAST	$ 12.00	44	F32T8 25W LAMP	$ 3.00	22		$ -	$ 264.00	$ 132.00	$ -	$ 514.80	$ 25.00	$ 550.00
54	1	2L F32T8 25W RELAMP/REBALLAST	13	13	2L ELB/NBF BALLAST	$ 12.00	26	F32T8 25W LAMP	$ 3.00	13		$ -	$ 156.00	$ 78.00	$ -	$ 304.20	$ 25.00	$ 325.00
55	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
56	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
57	1	2L F32T8 25W RELAMP/REBALLAST	13	13	2L ELB/NBF BALLAST	$ 12.00	26	F32T8 25W LAMP	$ 3.00	13		$ -	$ 156.00	$ 78.00	$ -	$ 304.20	$ 25.00	$ 325.00
58	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
59	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
60	1	2L T5HO ELB/HBF HIGH BAY FIXTURE	24	24	2L T5HO HIGH BAY FIXT	$150.00	24		$ -	24		$ -	$ 3,600.00	$ -	$ -	$ 4,680.00	$ 75.00	$ 1,800.00
61	1	15W PAR30 CFL	12	12		$ -	12	15W PAR30 CFL	$ 10.00	12		$ -	$ -	$ 120.00	$ -	$ 156.00	$ 10.00	$ 120.00
62	1	20W CFL	6	6		$ -	6	20W CFL	$ 10.00	6		$ -	$ -	$ 60.00	$ -	$ 78.00	$ 10.00	$ 60.00
63	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
64	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
65	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
66	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
67	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00

LN #	FL #	Replacement Fixture Description	Repl Qty	qty fix	Fixture / Ballast	cost fix	qty lmp	Lamp / Sensor	cost lmp	qty ref	Reflector / PowerPack	cost ref	Ballast/Fix Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	Labor Cost	Labor Tot Cost
68	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
69	1	2L F32T8 25W RELAMP/REBALLAST	14	14	2L ELB/NBF BALLAST	$ 12.00	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ 168.00	$ 84.00	$ -	$ 327.60	$ 25.00	$ 350.00
70	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
71	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
72	1	2L F32T8 25W RELAMP/REBALLAST	14	14	2L ELB/NBF BALLAST	$ 12.00	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ 168.00	$ 84.00	$ -	$ 327.60	$ 25.00	$ 350.00
73	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
74	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
75	1	2L F32T8 25W RELAMP/REBALLAST	14	14	2L ELB/NBF BALLAST	$ 12.00	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ 168.00	$ 84.00	$ -	$ 327.60	$ 25.00	$ 350.00
76	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
77	1	20W CFL	1	1		$ -	1	20W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
78	1	2L F32T8 25W RELAMP/REBALLAST	14	14	2L ELB/NBF BALLAST	$ 12.00	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ 168.00	$ 84.00	$ -	$ 327.60	$ 25.00	$ 350.00
79	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
80	1	2L F32T8 25W RELAMP/REBALLAST	14	14	2L ELB/NBF BALLAST	$ 12.00	28	F32T8 25W LAMP	$ 3.00	14		$ -	$ 168.00	$ 84.00	$ -	$ 327.60	$ 25.00	$ 350.00
81	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
82	1	1L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	1	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 3.00	$ -	$ 19.50	$ 25.00	$ 25.00
83	1	2L F32T8 25W RELAMP/REBALLAST	21	21	2L ELB/NBF BALLAST	$ 12.00	42	F32T8 25W LAMP	$ 3.00	21		$ -	$ 252.00	$ 126.00	$ -	$ 491.40	$ 25.00	$ 525.00
84	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
85	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
86	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
87	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
88	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
89	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
90	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
91	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
92	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
93	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
94	1	2L F32T8 25W RELAMP/REBALLAST	36	36	2L ELB/NBF BALLAST	$ 12.00	72	F32T8 25W LAMP	$ 3.00	36		$ -	$ 432.00	$ 216.00	$ -	$ 842.40	$ 25.00	$ 900.00
95	1	NEW LED EXIT SIGN	1	1	NEW LED EXIT SIGN	$ 55.00	1		$ -	1		$ -	$ 55.00	$ -	$ -	$ 71.50	$ 55.00	$ 55.00
96	1	O/S CEILING	3	3		$ -	3	O/S CEILING	$ 95.00	3	O/S POWER PACK	$ 35.00	$ -	$ 285.00	$ 105.00	$ 507.00	$ 55.00	$ 165.00
97	1	4L F32T8 25W RELAMP/REBALLAST	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
98	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
99	1	4L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	48	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 144.00	$ -	$ 421.20	$ 25.00	$ 300.00
100	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
101	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
102	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
103	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
104	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
105	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
106	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
107	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
108	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
109	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
110	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
111	1	2L F32T8 25W RELAMP/REBALLAST	3	3	2L ELB/NBF BALLAST	$ 12.00	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ 36.00	$ 18.00	$ -	$ 70.20	$ 25.00	$ 75.00
112	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
113	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
114	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
115	1	3L F32T8 25W RELAMP/REBALLAST	9	9	4L ELB/NBF BALLAST	$ 15.00	27	F32T8 25W LAMP	$ 3.00	9		$ -	$ 135.00	$ 81.00	$ -	$ 280.80	$ 25.00	$ 225.00
116	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
117	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
118	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
119	1	3L F32T8 25W RELAMP/REBALLAST	6	6	4L ELB/NBF BALLAST	$ 15.00	18	F32T8 25W LAMP	$ 3.00	6		$ -	$ 90.00	$ 54.00	$ -	$ 187.20	$ 25.00	$ 150.00
120	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
121	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
122	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
123	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
124	1	O/S WALL	1	1		$ -	1	O/W WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
125	1	2L F32T8 25W RELAMP/REBALLAST	22	22	2L ELB/NBF BALLAST	$ 12.00	44	F32T8 25W LAMP	$ 3.00	22		$ -	$ 264.00	$ 132.00	$ -	$ 514.80	$ 25.00	$ 550.00
126	1	4L F32T8 25W RELAMP/REBALLAST	19	19	4L ELB/NBF BALLAST	$ 15.00	76	F32T8 25W LAMP	$ 3.00	19		$ -	$ 285.00	$ 228.00	$ -	$ 666.90	$ 25.00	$ 475.00
127	1	1L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	1	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 3.00	$ -	$ 19.50	$ 25.00	$ 25.00
													$ 13,456.00	$ 8,008.00	$ 1,015.00	$ 29,222.70	Total	$ 19,020.00
															With Tax	$ 31,268.29	CONT	$ -
																	Equipment	$ -
																	Total Labor:	$ 24,726.00
																	Total project	$ 55,994.29

NEW JERSEY SMART START REBATE	$ 10,807.00

LIGHTING INVENTORY SUMMARY
Pequannock Township Board of Education - S.J. Gerace
538 Newark Pompton Turnpike
Pompton Plains, NJ 07444

EXECUTIVE SUMMARY

ENERGY DATA

Existing Energy Usage (Watts)	43,215
Proposed Energy Usage (Watts)	30,675
Energy Saved (Watts)	12,540
Annual Kilowatt Hours Saved (kWh)	69,536

FINANCIAL DATA

Annual Existing Energy Cost	$	29,020.24
Annual Proposed Energy Cost	$	20,509.98
Annual Energy Savings	$	8,510.27
Additional Energy Savings (Occupancy Sensors)	$	3,102.19
Total Energy Savings	$	11,612.46
Initial Project Cost	$	33,992.49
Utility Rebate (Based on NJ Smart Start Approval)	$	3,695.00
Project Cost	$	30,297.49

CASH FLOW SUMMARY

Return On Investment (R.O.I.)		28%
Payback (Years)		3.56
10 Year Savings	$	85,102.67
10-Year Cumulative Positive Cash Flow	$	54,805.17

Pequannock Township Board of Education - S.J. Gerace
538 Newark Pompton Turnpike
Pompton Plains, NJ 07444

New Jersey

UTILITY ACCOUNT NUMBER	N/A
BUILDING TYPE	Educational
SQUARE FOOTAGE	33,500

Steven DiGeronimo
973-616-6030

LN #	FL #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist. Qty.	Exist. Fix Wts.	Foot Candle	Total Fix Wts.	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl. Qty.	Repl. Fix Wts.	Total Fix Wts.	Proposed An. Cost	Opr. Hours	Fix Wts Saved	kWh Saved	@ 15/kWh	Annual Elec. Savings	Annual Sens. Savings
1	1			ENTRANCE	2L F32T8 (1X4)		1	60		60	$40.08	2L F32T8 25W RELAMP		$ -	1	43	43	$28.72	4000	17	68	11.356	$ 11.36	
2	1			HALL	2L F32T8 (1X4)		2	60		120	$80.16	2L F32T8 25W RELAMP		$ -	2	43	86	$57.45	4000	34	136	22.712	$ 22.71	
3	1			HALL	3L F32T8 (2X4)		6	88		528	$352.70	3L F32T8 25W RELAMP		$ -	6	66	396	$264.53	4000	132	528	88.176	$ 88.18	
4	1			HALL	2L F32T8 WRAP		27	60		1620	$1,082.16	2L F32T8 25W RELAMP		$ -	27	43	1161	$775.55	4000	459	1836	306.612	$ 306.61	
5	1			HALL	EXIT 30W		1	30		30	$43.89	NEW LED EXIT SIGN	20	$ 20.00	1	3	3	$4.39	8760	27	236.52	39.49884	$ 39.50	
6	1			OFFICE OPEN AREA	2L F32T8 WRAP		16	60		960	$641.28	2L F32T8 25W RELAMP		$ -	16	43	688	$459.58	4000	272	1088	181.696	$ 181.70	
7	1			PRINCIPALS OFFICE	2L F32T8 WRAP		3	60		180	$120.24	2L F32T8 25W RELAMP		$ -	3	43	129	$86.17	4000	51	204	34.068	$ 34.07	
8	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 25.85
9	1			HEALTH OPEN AREA	3L F32T8 (2X4)		4	88		352	$235.14	3L F32T8 25W RELAMP		$ -	4	66	264	$176.35	4000	88	352	58.784	$ 58.78	
10	1			HEALTH CONFERENCE	3L F32T8 (2X4)		1	88		88	$58.78	3L F32T8 25W RELAMP		$ -	1	66	66	$44.09	4000	22	88	14.696	$ 14.70	
11	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 13.23
12	1			HEALTH EXAM	3L F32T8 (2X4)		2	88		176	$117.57	3L F32T8 25W RELAMP		$ -	2	66	132	$88.18	4000	44	176	29.392	$ 29.39	
13	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 26.45
14	1			BATHROOM	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
15	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.01
16	1			FILES	2L F32T8 WRAP		1	60		60	$40.08	2L F32T8 25W RELAMP		$ -	1	43	43	$28.72	4000	17	68	11.356	$ 11.36	
17	1			SUPPLY ROOM	75W A		2	75		150	$100.20	15W CFL		$ -	2	15	30	$20.04	4000	120	480	80.16	$ 80.16	
18	1			STAFF BATHROOM 1	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
19	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.01
20	1			STAFF BATHROOM 2	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
21	1			FACULTY ROOM	3L F32T8 (2X4)		8	88		704	$470.27	3L F32T8 25W RELAMP		$ -	8	66	528	$352.70	4000	176	704	117.568	$ 117.57	
22	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 105.81
23	1			COPY ROOM	3L F32T8 (2X4)		4	88		352	$235.14	3L F32T8 25W RELAMP		$ -	4	66	264	$176.35	4000	88	352	58.784	$ 58.78	
24	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 52.91
25	1		108	CLASSROOM	2L F34T12 (2X4)		3	60		180	$120.24	2L F32T8 25W RELAMP/REBALLAST	10	$ 30.00	3	43	129	$86.17	4000	51	204	34.068	$ 34.07	
26	1		108	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 25.85
27	1		106	CLASSROOM	2L F32T8 WRAP		15	60		900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
28	1		106	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
29	1		104	CLASSROOM	2L F32T8 WRAP		15	60		900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
30	1		104	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
31	1		102	CLASSROOM	75W A		2	75		150	$100.20	15W CFL		$ -	2	15	30	$20.04	4000	120	480	80.16	$ 80.16	
32	1		102	CLASSROOM	2L F32T8 WRAP		21	60	45	1260	$841.68	2L F32T8 25W RELAMP		$ -	21	43	903	$603.20	4000	357	1428	238.476	$ 238.48	
33	1		102	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 180.96
34	1		101	CLASSROOM	2L F32T8 WRAP		21	60		1260	$841.68	2L F32T8 25W RELAMP		$ -	21	43	903	$603.20	4000	357	1428	238.476	$ 238.48	
35	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 180.96
36	1		101	BATHROOM	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
37	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.01
38	1		101	CLOSET	20W CFL		1	20		20	$13.36	NO MEASURE		$ -	1	20	20	$13.36	4000	0	0	0	$ -	
39	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 4.01
40	1		103	CLASSROOM	2L F32T8 WRAP		15	60		900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
41	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
42	1		105	CLASSROOM	2L F32T8 WRAP		15	60		900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
43	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
44	1		107	CLASSROOM	2L F32T8 WRAP		15	60		900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
45	1		107	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
46	1			BOYS BATHROOM	2L F32T8 (1X4)		3	60		180	$120.24	2L F32T8 25W RELAMP		$ -	3	43	129	$86.17	4000	51	204	34.068	$ 34.07	
47	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 25.85
48	1			CUSTODIAN	20W CFL		1	20		20	$13.36	NO MEASURE		$ -	1	20	20	$13.36	4000	0	0	0	$ -	
49	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 4.01
50	1			MECHANICAL	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
51	1			ELEVATOR	1L F34T12 STRIP		2	50		100	$66.80	1L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	22	44	$29.39	4000	56	224	37.408	$ 37.41	
52	1			GIRLS BATHROOM	2L F32T8 (1X4)		3	60		180	$120.24	2L F32T8 25W RELAMP		$ -	3	43	129	$86.17	4000	51	204	34.068	$ 34.07	
53	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 25.85
54	1			HALL	2L F34T12 (2X4)		7	60		420	$280.56	2L F32T8 25W RELAMP/REBALLAST	10	$ 70.00	7	43	301	$201.07	4000	119	476	79.492	$ 79.49	
55	1			HALL	EXIT 30W		2	30		60	$87.78	NEW LED EXIT SIGN	20	$ 40.00	2	3	6	$8.78	8760	54	473.04	78.99768	$ 79.00	
56	1			TECHNOLOGY	3L F34T12 PARABOLIC (2X4)		12	88	21	1056	$705.41	3L F32T8 25W RELAMP/REBALLAST	20	$ 240.00	12	66	792	$529.06	4000	264	1056	176.352	$ 176.35	
57	1			LIBRARY	2L F34T12 (2X4)		1	60		60	$40.08	2L F32T8 25W RELAMP/REBALLAST	10	$ 10.00	1	43	43	$28.72	4000	17	68	11.356	$ 11.36	
58	1			LIBRARY	3L F34T12 PARABOLIC (2X4)		4	88		352	$235.14	3L F32T8 25W RELAMP/REBALLAST	20	$ 80.00	4	66	264	$176.35	4000	88	352	58.784	$ 58.78	
59	1			LIBRARY	2L F34T12 NARROW BOX		60	60		3600	$2,404.80	2L F32T8 25W RELAMP/REBALLAST	10	$ 600.00	60	43	2580	$1,723.44	4000	1020	4080	681.36	$ 681.36	
60	1			LIBRARY	EXIT 30W		2	30		60	$87.78	NEW LED EXIT SIGN	20	$ 40.00	2	3	6	$8.78	8760	54	473.04	78.99768	$ 79.00	
61	1			OFFICE 1	3L F34T12 PARABOLIC (2X4)		4	88		352	$235.14	3L F32T8 25W RELAMP/REBALLAST	20	$ 80.00	4	66	264	$176.35	4000	88	352	58.784	$ 58.78	
62	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 52.91
63	1			OFFICE 2	3L F34T12 PARABOLIC (2X4)		4	88		352	$235.14	3L F32T8 25W RELAMP/REBALLAST	20	$ 80.00	4	66	264	$176.35	4000	88	352	58.784	$ 58.78	
64	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 52.91
65	1		100	CLASSROOM	2L F34T12 (2X4)		2	60		120	$80.16	2L F32T8 25W RELAMP/REBALLAST	10	$ 20.00	2	43	86	$57.45	4000	34	136	22.712	$ 22.71	
66	1			GYM	250W HID (2X2)		24	288	25	6912	$4,617.22	4L T5HO ELB/HBF HIGH BAY FIXTURE	50	$ 1,200.00	24	234	5616	$3,751.49	4000	1296	5184	865.728	$ 865.73	
67	1			STORAGE	75W A		4	75		300	$200.40	15W CFL		$ -	4	15	60	$40.08	4000	240	960	160.32	$ 160.32	

LN #	Fl. #	Section/ Building	ROOM #	Room Description	Existing Fixture Description	Fixture Code	Exist Qty	Exist Fix Wts	Foot Candle	Total Fix Wts	Existing An. Cost	Replacement Fixture Description	NJ Rebate Code	NJ Rebate Amount	Repl. Qty	Repl. Fix Wts	Total Fix Wts	Proposed An. Cost	Opr. Hours	Fix Wts Saved	kWh Saved	0.15/kWh	Annual Elec. Savings	Annual Sens. Savings
68	1			CLASSROOM	2L F32T8 WRAP		3	60		180	$120.24	2L F32T8 25W RELAMP		$ -	3	43	129	$86.17	4000	51	204	34.068	$ 34.07	
69	1			BOILER ROOM	20W CFL		11	20		220	$146.96	NO MEASURE		$ -	11	20	220	$146.96	4000	0	0	0	$ -	
70	1			MAINTENANCE OFFICE	20W CFL		2	20		40	$26.72	NO MEASURE		$ -	2	20	40	$26.72	4000	0	0	0	$ -	
71	1			MENS BATHROOM	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
72	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.01
73	1			STORAGE	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
74	1			STORAGE (BOOK)	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
75	1			SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 3.01
76	1		109A&B	CLASSROOM	2L F32T8 WRAP		2	60		120	$80.16	2L F32T8 25W RELAMP		$ -	2	43	86	$57.45	4000	34	136	22.712	$ 22.71	
77	1		109A&B	CLASSROOM	4L F32T8 WRAP		2	112		224	$149.63	4L F32T8 25W RELAMP		$ -	2	86	172	$114.90	4000	52	208	34.736	$ 34.74	
78	1			STAIRCASE 2	2L F32T8 WRAP		3	60		180	$120.24	2L F32T8 25W RELAMP		$ -	3	43	129	$86.17	4000	51	204	34.068	$ 34.07	
79	1			STAIRCASE 2	2L F32T8 (1X4)		2	60		120	$80.16	2L F32T8 25W RELAMP		$ -	2	43	86	$57.45	4000	34	136	22.712	$ 22.71	
80	1			STAIRCASE 2	2L F32T8 (2X4)		3	60		180	$120.24	2L F32T8 25W RELAMP		$ -	3	43	129	$86.17	4000	51	204	34.068	$ 34.07	
81	1			STAIRCASE 2	EXIT 2L 7W CFL		2	14		28	$40.96	NEW LED EXIT SIGN	20	$ 40.00	2	3	6	$8.78	8760	22	192.72	32.18424	$ 32.18	
82	1			STAIRCASE 1	2L F32T8 WRAP		7	60		420	$280.56	2L F32T8 25W RELAMP		$ -	7	43	301	$201.07	4000	119	476	79.492	$ 79.49	
83	1		202	CLASSROOM	2L F32T8 WRAP		18	60		1080	$721.44	2L F32T8 25W RELAMP		$ -	18	43	774	$517.03	4000	306	1224	204.408	$ 204.41	
84	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 155.11
85	1		202	BATHROOM	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
86	1		201	ART	3L F32T8 (2X4)		15	88		1320	$881.76	3L F32T8 25W RELAMP		$ -	15	66	990	$661.32	4000	330	1320	220.44	$ 220.44	
87	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 198.40
88	1		201	HALL	2L F32T8 WRAP		1	60		60	$40.08	2L F32T8 25W RELAMP		$ -	1	43	43	$28.72	4000	17	68	11.356	$ 11.36	
89	1		201	BATHROOM	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
90	1		204	READING	2L F32T8 WRAP		4	60	30	240	$160.32	2L F32T8 25W RELAMP		$ -	4	43	172	$114.90	4000	68	272	45.424	$ 45.42	
91	1		204	READING	75W A		1	75		75	$50.10	15W CFL		$ -	1	15	15	$10.02	4000	60	240	40.08	$ 40.08	
92	1		204	SENSOR SAVINGS	WALL		1			0	$0.00	O/S WALL	20	$ 20.00	1			$0.00						$ 34.47
93	1		205	CLASSROOM	2L F32T8 WRAP		15	60	46	900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
94	1		205	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
95	1		206	CLASSROOM	2L F32T8 WRAP		15	60		900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
96	1		206	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
97	1		208	CLASSROOM	2L F32T8 WRAP		15	60	41	900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
98	1		208	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
99	1		207	CLASSROOM	2L F32T8 WRAP		15	60	46	900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
100	1		207	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
101	1		209	CLASSROOM	2L F32T8 WRAP		15	60		900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
102	1		209	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
103	1		210	CLASSROOM	2L F32T8 WRAP		15	60		900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
104	1		210	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
105	1			BOYS BATHROOM	2L F32T8 WRAP		3	60		180	$120.24	2L F32T8 25W RELAMP		$ -	3	43	129	$86.17	4000	51	204	34.068	$ 34.07	
106	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 25.85
107	1			CUSTODIAN	20W CFL		1	20		20	$13.36	NO MEASURE		$ -	1	20	20	$13.36	4000	0	0	0	$ -	
108	1		211	CLASSROOM	2L F32T8 WRAP		15	60	49	900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
109	1		211	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
110	1		212	CLASSROOM	2L F32T8 WRAP		15	60		900	$601.20	2L F32T8 25W RELAMP		$ -	15	43	645	$430.86	4000	255	1020	170.34	$ 170.34	
111	1		212	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 129.26
112	1		213	MUSIC	2L F32T8 WRAP		22	60	39	1320	$881.76	2L F32T8 25W RELAMP		$ -	22	43	946	$631.93	4000	374	1496	249.832	$ 249.83	
113	1		213	SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 189.58
114	1			MECHANICAL	20W CFL		3	20		60	$40.08	NO MEASURE		$ -	3	20	60	$40.08	4000	0	0	0	$ -	
115	1			GIRLS BATHROOM	2L F32T8 WRAP		3	60		180	$120.24	2L F32T8 25W RELAMP		$ -	3	43	129	$86.17	4000	51	204	34.068	$ 34.07	
116	1			SENSOR SAVINGS	CEILING		1			0	$0.00	O/S CEILING	35	$ 35.00	1			$0.00						$ 25.85
117	1			ROOF TOP MECHANICAL	75W A		6	75		450	$300.60	15W CFL		$ -	6	15	90	$60.12	4000	360	1440	240.48	$ 240.48	
118	1			ROOF TOP MECHANICAL	EXIT 2L 7W CFL		1	14		14	$20.48	NEW LED EXIT SIGN	20	$ 20.00	1	3	3	$4.39	8760	11	96.36	16.09212	$ 16.09	
119	1			HALL	2L F32T8 WRAP		23	60		1380	$921.84	2L F32T8 25W RELAMP		$ -	23	43	989	$660.65	4000	391	1564	261.188	$ 261.19	
120	1			GARAGE	75W A		4	75		300	$200.40	15W CFL		$ -	4	15	60	$40.08	4000	240	960	160.32	$ 160.32	
										43,215	$29,020.24			$ 3,695.00					**KW SAVED >>>>**	**12.54**	**50959.68**	**8510.26656**	**$ 8,510.27**	**$ 3,102.19**

Electric Rate: $0.167

30675 $20,509.9781

Total Cost Savings $ 11,612.46

Total kWh Savings 69,535.68

Name:	Pequannock Township Board of Education - S.J. Gerace
Address:	538 Newark Pompton Turnpike
City, St.	Pompton Plains, NJ 07444
Contact:	Steven DiGeronimo
Phone:	973-616-6030

																	NON UNION	
LN #	FL #	Replacement Fixture Description	Repl. Qty.	qty fix	Fixture / Ballast	cost fix	qty lmp	Lamp / Sensor	cost lmp	qty ref	Reflector / PowerPack	cost ref	Ballast/Fix Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	Labor Cost	Labor Tot. Cost
1	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
2	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
3	1	3L F32T8 25W RELAMP	6	6		$ -	18	F32T8 25W LAMP	$ 3.00	6		$ -	$ -	$ 54.00	$ -	$ 70.20	$ 12.00	$ 72.00
4	1	2L F32T8 25W RELAMP	27	27		$ -	54	F32T8 25W LAMP	$ 3.00	27		$ -	$ -	$ 162.00	$ -	$ 210.60	$ 12.00	$ 324.00
5	1	NEW LED EXIT SIGN	1	1	NEW LED EXIT SIGN	$ 55.00	1		$ -	1		$ -	$ 55.00	$ -	$ -	$ 71.50	$ 35.00	$ 35.00
6	1	2L F32T8 25W RELAMP	16	16		$ -	32	F32T8 25W LAMP	$ 3.00	16		$ -	$ -	$ 96.00	$ -	$ 124.80	$ 12.00	$ 192.00
7	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
8	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
9	1	3L F32T8 25W RELAMP	4	4		$ -	12	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 48.00
10	1	3L F32T8 25W RELAMP	1	1		$ -	3	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 9.00	$ -	$ 11.70	$ 12.00	$ 12.00
11	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
12	1	3L F32T8 25W RELAMP	2	2		$ -	6	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 24.00
13	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
14	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
15	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
16	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
17	1	15W CFL	2	2		$ -	2	15W CFL	$ 10.00	2		$ -	$ -	$ 20.00	$ -	$ 26.00	$ 10.00	$ 20.00
18	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
19	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
20	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
21	1	3L F32T8 25W RELAMP	8	8		$ -	24	F32T8 25W LAMP	$ 3.00	8		$ -	$ -	$ 72.00	$ -	$ 93.60	$ 12.00	$ 96.00
22	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
23	1	3L F32T8 25W RELAMP	4	4		$ -	12	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 36.00	$ -	$ 46.80	$ 12.00	$ 48.00
24	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
25	1	2L F32T8 25W RELAMP/REBALLAST	3	3	2L ELB/NBF BALLAST	$ 12.00	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ 36.00	$ 18.00	$ -	$ 70.20	$ 25.00	$ 75.00
26	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
27	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
28	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
29	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
30	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
31	1	15W CFL	2	2		$ -	2	15W CFL	$ 10.00	2		$ -	$ -	$ 20.00	$ -	$ 26.00	$ 10.00	$ 20.00
32	1	2L F32T8 25W RELAMP	21	21		$ -	42	F32T8 25W LAMP	$ 3.00	21		$ -	$ -	$ 126.00	$ -	$ 163.80	$ 12.00	$ 252.00
33	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
34	1	2L F32T8 25W RELAMP	21	21		$ -	42	F32T8 25W LAMP	$ 3.00	21		$ -	$ -	$ 126.00	$ -	$ 163.80	$ 12.00	$ 252.00
35	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
36	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
37	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
38	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
39	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
40	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
41	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
42	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
43	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
44	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
45	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
46	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
47	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
48	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
49	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
50	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
51	1	1L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 6.00	$ -	$ 39.00	$ 25.00	$ 50.00
52	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
53	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
54	1	2L F32T8 25W RELAMP/REBALLAST	7	7	2L ELB/NBF BALLAST	$ 12.00	14	F32T8 25W LAMP	$ 3.00	7		$ -	$ 84.00	$ 42.00	$ -	$ 163.80	$ 25.00	$ 175.00
55	1	NEW LED EXIT SIGN	2	2	NEW LED EXIT SIGN	$ 55.00	2		$ -	2		$ -	$ 110.00	$ -	$ -	$ 143.00	$ 35.00	$ 70.00
56	1	3L F32T8 25W RELAMP/REBALLAST	12	12	4L ELB/NBF BALLAST	$ 15.00	36	F32T8 25W LAMP	$ 3.00	12		$ -	$ 180.00	$ 108.00	$ -	$ 374.40	$ 25.00	$ 300.00
57	1	2L F32T8 25W RELAMP/REBALLAST	1	1	2L ELB/NBF BALLAST	$ 12.00	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ 12.00	$ 6.00	$ -	$ 23.40	$ 25.00	$ 25.00
58	1	3L F32T8 25W RELAMP/REBALLAST	4	4	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	4		$ -	$ 60.00	$ 36.00	$ -	$ 124.80	$ 25.00	$ 100.00
59	1	2L F32T8 25W RELAMP/REBALLAST	60	60	2L ELB/NBF BALLAST	$ 12.00	120	F32T8 25W LAMP	$ 3.00	60		$ -	$ 720.00	$ 360.00	$ -	$ 1,404.00	$ 25.00	$ 1,500.00
60	1	NEW LED EXIT SIGN	2	2	NEW LED EXIT SIGN	$ 55.00	2		$ -	2		$ -	$ 110.00	$ -	$ -	$ 143.00	$ 35.00	$ 70.00
61	1	3L F32T8 25W RELAMP/REBALLAST	4	4	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	4		$ -	$ 60.00	$ 36.00	$ -	$ 124.80	$ 25.00	$ 100.00
62	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
63	1	3L F32T8 25W RELAMP/REBALLAST	4	4	4L ELB/NBF BALLAST	$ 15.00	12	F32T8 25W LAMP	$ 3.00	4		$ -	$ 60.00	$ 36.00	$ -	$ 124.80	$ 25.00	$ 100.00
64	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
65	1	2L F32T8 25W RELAMP/REBALLAST	2	2	2L ELB/NBF BALLAST	$ 12.00	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ 24.00	$ 12.00	$ -	$ 46.80	$ 25.00	$ 50.00
66	1	4L T5HO ELB/HBF HIGH BAY FIXTURE	24	24	4L T5HO HIGH BAY FIX	$ 175.00	24		$ -	24		$ -	$ 4,200.00	$ -	$ -	$ 5,460.00	$ 75.00	$ 1,800.00
67	1	15W CFL	4	4		$ -	4	15W CFL	$ 10.00	4		$ -	$ -	$ 40.00	$ -	$ 52.00	$ 10.00	$ 40.00

LN #	FL #	Replacement Fixture Description	Repl Qty	qty fix	Fixture / Ballast	cost fix	qty lmp	Lamp / Series	cost lmp	qty ref	Reflector / PowerPack	cost ref	Ballast/Fix Cost Total	Lamp Cost Total	REFLECT Cost Total	Material Sell Total	Labor Cost	Labor Tot Cost
68	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
69	1	NO MEASURE	11	11		$ -	11		$ -	11		$ -	$ -	$ -	$ -	$ -	$ -	$ -
70	1	NO MEASURE	2	2		$ -	2		$ -	2		$ -	$ -	$ -	$ -	$ -	$ -	$ -
71	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
72	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
73	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
74	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
75	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
76	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
77	1	4L F32T8 25W RELAMP	2	2	4L ELB/NBF BALLAST	$ 15.00	8	F32T8 25W LAMP	$ 3.00	2		$ -	$ 30.00	$ 24.00	$ -	$ 70.20	$ 25.00	$ 50.00
78	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
79	1	2L F32T8 25W RELAMP	2	2		$ -	4	F32T8 25W LAMP	$ 3.00	2		$ -	$ -	$ 12.00	$ -	$ 15.60	$ 12.00	$ 24.00
80	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
81	1	NEW LED EXIT SIGN	2	2	NEW LED EXIT SIGN	$ 55.00	2		$ -	2		$ -	$ 110.00	$ -	$ -	$ 143.00	$ 35.00	$ 70.00
82	1	2L F32T8 25W RELAMP	7	7		$ -	14	F32T8 25W LAMP	$ 3.00	7		$ -	$ -	$ 42.00	$ -	$ 54.60	$ 12.00	$ 84.00
83	1	2L F32T8 25W RELAMP	18	18		$ -	36	F32T8 25W LAMP	$ 3.00	18		$ -	$ -	$ 108.00	$ -	$ 140.40	$ 12.00	$ 216.00
84	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
85	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
86	1	3L F32T8 25W RELAMP	15	15		$ -	45	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 135.00	$ -	$ 175.50	$ 12.00	$ 180.00
87	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
88	1	2L F32T8 25W RELAMP	1	1		$ -	2	F32T8 25W LAMP	$ 3.00	1		$ -	$ -	$ 6.00	$ -	$ 7.80	$ 12.00	$ 12.00
89	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
90	1	2L F32T8 25W RELAMP	4	4		$ -	8	F32T8 25W LAMP	$ 3.00	4		$ -	$ -	$ 24.00	$ -	$ 31.20	$ 12.00	$ 48.00
91	1	15W CFL	1	1		$ -	1	15W CFL	$ 10.00	1		$ -	$ -	$ 10.00	$ -	$ 13.00	$ 10.00	$ 10.00
92	1	O/S WALL	1	1		$ -	1	O/S WALL	$ 55.00	1		$ -	$ -	$ 55.00	$ -	$ 71.50	$ 35.00	$ 35.00
93	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
94	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
95	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
96	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
97	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
98	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
99	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
100	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
101	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
102	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
103	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
104	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
105	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
106	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
107	1	NO MEASURE	1	1		$ -	1		$ -	1		$ -	$ -	$ -	$ -	$ -	$ -	$ -
108	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
109	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
110	1	2L F32T8 25W RELAMP	15	15		$ -	30	F32T8 25W LAMP	$ 3.00	15		$ -	$ -	$ 90.00	$ -	$ 117.00	$ 12.00	$ 180.00
111	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
112	1	2L F32T8 25W RELAMP	22	22		$ -	44	F32T8 25W LAMP	$ 3.00	22		$ -	$ -	$ 132.00	$ -	$ 171.60	$ 12.00	$ 264.00
113	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
114	1	NO MEASURE	3	3		$ -	3		$ -	3		$ -	$ -	$ -	$ -	$ -	$ -	$ -
115	1	2L F32T8 25W RELAMP	3	3		$ -	6	F32T8 25W LAMP	$ 3.00	3		$ -	$ -	$ 18.00	$ -	$ 23.40	$ 12.00	$ 36.00
116	1	O/S CEILING	1	1		$ -	1	O/S CEILING	$ 95.00	1	O/S POWER PACK	$ 35.00	$ -	$ 95.00	$ 35.00	$ 169.00	$ 55.00	$ 55.00
117	1	15W CFL	6	6		$ -	6	15W CFL	$ 10.00	6		$ -	$ -	$ 60.00	$ -	$ 78.00	$ 10.00	$ 60.00
118	1	NEW LED EXIT SIGN	1	1	NEW LED EXIT SIGN	$ 55.00	1		$ -	1		$ -	$ 55.00	$ -	$ -	$ 71.50	$ 35.00	$ 35.00
119	1	2L F32T8 25W RELAMP	23	23		$ -	46	F32T8 25W LAMP	$ 3.00	23		$ -	$ -	$ 138.00	$ -	$ 179.40	$ 12.00	$ 276.00
120	1	15W CFL	4	4		$ -	4	15W CFL	$ 10.00	4		$ -	$ -	$ 40.00	$ -	$ 52.00	$ 10.00	$ 40.00
													$ 5,930.00	$6,666.00	$ 805.00	$17,421.30	Total	$11,809.00
															With Tax	$18,640.79	CONT	$ -
																	Equipment	$ -
																	Total Labor:	$ 15,351.70
																	Total project	$ 33,992.49

NEW JERSEY SMART START REBATE	$ 3,695.00

PEQUANNOCK BOARD OF EDUCATION _ ECM SUMMARY LIST

	Energy Conservation Measures (ECM)	Buildings	Energy Savings			Gross Installation Costs*	Rebates/ Incentive	Avoided Cost	Net Implementation Costs	Annual Energy Cost Savings	Annual Oper. Cost Savings	Total Annual Cost Savings	Simple Pay Back	Internal Rate of Return (IRR)	Measure Life	Lifecycle Savings	CO2 Savings (lbs)
			kWh	kW	Therms												
1	Install Destratification Fans in High Bay for Winter Use	Middle School	-2,270	0	9,470	$2,900	$0	$0	$2,900	$13,960	$0	$13,960	0.2	482.8%	15	$164,231	55
1	Install Destratification Fans in High Bay for Winter Use	Hillview Elementary	-190	0	3,630	$1,450	$0	$0	$1,450	$3,440	$0	$3,440	0.4	237.2%	15	$39,616	21
2	Install / Upgrade Pipe Insulation (pump casings)	High School	0	0	80	$70	$0	$0	$70	$120	$0	$120	0.6	171.4%	20	$1,715	0
3	Vending Machine Power Management System	Hillview Elementary	1,180	0	0	$350	$0	$0	$350	$200	$0	$200	1.8	49.5%	5	$566	0
3	Vending Machine Power Management System	North Boulevard	1,180	0	0	$180	$0	$0	$180	$200	$0	$200	0.9	111.1%	15	$2,208	0
3	Vending Machine Power Management System	High School	11,770	0	0	$1,790	$0	$0	$1,790	$1,910	$0	$1,910	0.9	103.7%	5	$6,957	4
3	Vending Machine Power Management System	Middle School	3,530	0	0	$540	$0	$0	$540	$600	$0	$600	0.9	108.3%	5	$2,208	1
4	At EOL, Upgrade Kitchen Appliances w/ Energy Star Models	Middle School	17,230	1	0	$24,000	$0	$20,400	$3,600	$2,910	$0	$2,910	1.2	80.8%	15	$31,139	6
4	At EOL, Upgrade Kitchen Appliances w/ Energy Star Models	High School	8,680	1	0	$21,330	$0	$18,130	$3,200	$1,410	$0	$1,410	2.3	43.9%	15	$13,632	3
5	At EOL, Dishwasher Booster Heater Fuel Switch	High School	3,990	0	-160	$7,010	$0	$6,310	$700	$410	$0	$410	1.7	58.5%	15	$4,195	0
6	Lighting Upgrades	High School	166,100	37	0	$69,500	$8,225	$0	$61,275	$26,910	$0	$26,910	2.3	43.7%	15	$259,975	55
6	Lighting Upgrades	Middle School	230,370	51	0	$82,080	$17,815	$0	$64,265	$38,930	$0	$38,930	1.7	60.5%	15	$400,479	76
6	Lighting Upgrades	Hillview Elementary	105,460	20	0	$41,580	$6,565	$0	$35,015	$17,930	$0	$17,930	2.0	51.1%	15	$179,032	35
6	Lighting Upgrades	North Boulevard	149,160	31	0	$55,990	$10,810	$0	$45,180	$24,910	$0	$24,910	1.8	55.1%	15	$252,194	49
6	Lighting Upgrades	Gerace Elementary	69,540	13	0	$33,990	$3,695	$0	$30,295	$11,610	$0	$11,610	2.6	38.0%	15	$108,304	23
7	At EOL, Replace Boiler(s) w/ Modulating/Modular Condensing Boilers	Hillview Elementary	0	0	6,850	$207,410	$6,000	$165,930	$35,480	$10,510	$0	$10,510	3.4	29.5%	20	$120,813	40
7	At EOL, Replace Boiler(s) w/ Modulating/Modular Condensing Boilers	Middle School	0	0	14,660	$145,600	$4,000	$116,000	$25,600	$22,190	$0	$22,190	1.2	85.4%	25	$360,572	86
7	At EOL, Replace Boiler(s) w/ Modulating/Modular Condensing Boilers	Gerace Elementary	0	0	8,070	$106,520	$6,000	$85,200	$15,320	$12,530	$0	$12,530	1.2	79.1%	25	$201,864	47
7	At EOL, Replace Boiler(s) w/ Modulating/Modular Condensing HHW Boilers	North Boulevard	0	0	13,320	$260,120	$6,000	$208,000	$46,120	$19,950	$0	$19,950	2.3	43.3%	25	$300,522	78
8	At EOL, Upgrade Window AC Units w/ High Efficiency Models	Hillview Elementary	760	0	0	$1,250	$0	$1,060	$190	$130	$0	$130	1.5	68.0%	10	$919	0
8	At EOL, Upgrade Window AC Units w/ High Efficiency Models	Middle School	920	0	0	$1,500	$0	$1,275	$225	$150	$0	$150	1.5	67.8%	10	$1,060	0
8	At EOL, Upgrade Window AC Units w/ High Efficiency Models	Gerace Elementary	300	0	0	$500	$0	$400	$100	$50	$0	$50	2.0	49.1%	10	$327	0

	Energy Conservation Measures (ECM)	Buildings	Energy Savings			Gross Installation Costs*	Rebates/ Incentive	Avoided Cost	Net Implementation Costs	Annual Energy Cost Savings	Annual Oper. Cost Savings	Total Annual Cost Savings	Simple Pay Back	Internal Rate of Return (IRR)	Measure Life	Lifecycle Savings	CO2 Savings (lbs)
			kWh	kW	Therms												
8	At EOL, Upgrade Window AC Units w/ High Efficiency Models	High School	1,530	0	0	$2,500	$0	$1,880	$620	$250	$0	$250	2.5	38.8%	10	$1,513	1
9	Upgrade Major Motors to Premium Efficiency Models	North Boulevard	730	0	0	$1,540	$150	$0	$1,390	$120	$0	$120	11.6	5.1%	18	$260	0
9	Upgrade Major Motors to Premium Efficiency Models	High School	2,300	0	0	$1,870	$180	$0	$1,690	$370	$0	$370	4.6	21.4%	20	$3,815	1
10	Implement Demand Control Ventilation in Auditorium and Library	High School	13,790	0	720	$22,300	$0	$0	$22,300	$3,310	$0	$3,310	6.7	12.2%	15	$17,215	9
11	VFD Controls for Univentilators	Hillview Elementary	14,270	0	0	$12,250	$0	$0	$12,250	$2,430	$0	$2,430	5.0	18.2%	15	$16,711	5
11	VFD Controls for Univentilators	North Boulevard	14,680	0	0	$19,130	$0	$0	$19,100	$2,450	$0	$2,450	7.8	9.6%	15	$10,148	5
11	VFD Controls for Univentilators	High School	9,330	0	0	$21,950	$0	$0	$21,900	$1,510	$0	$1,510	14.5	0.4%	15	-$3,874	3
11	VFD Controls for Univentilators	Middle School	25,690	0	0	$26,630	$0	$0	$26,600	$4,340	$0	$4,340	6.1	14.0%	15	$25,211	8
11	VFD Controls for Univentilators	Gerace Elementary	15,090	0	0	$12,950	$0	$0	$13,000	$2,520	$0	$2,520	5.2	17.7%	15	$17,084	5
12	Install Walk-in Cooler Evaporator Fan Speed Controls	High School	1,205	0	0	$2,340	$0	$0	$2,340	$210	$0	$210	11.1	4.0%	15	$167	0
13	At EOL, Upgrade Aging PRTUs w/ High Efficiency Units	High School	1,070	0	0	$18,170	$890	$14,540	$2,810	$200	$0	$200	14.1	0.8%	15	-$422	0
14	At EOL, Upgrade Split AC Systems w/ High Efficiency Units	North Boulevard	1,290	0	0	$11,550	$320	$9,240	$2,040	$200	$0	$200	10.2	5.3%	15	$348	0
14	At EOL, Upgrade Split AC Systems w/ High Efficiency Units	Hillview Elementary	1,660	0	0	$37,830	$1,380	$30,260	$6,150	$280	$0	$280	22.0	-4.4%	15	-$2,807	1
14	At EOL, upgrade Split AC Systems w/ High Efficiency Units	Gerace Elementary	590	0	0	$11,480	$490	$10,880	$110	$100	$0	$100	1.1	90.9%	15	$1,084	0
	Totals	**TOTALS**	**870,935**	**156**	**56,640**	**$1,268,150**	**$72,520**	**$689,505**	**$506,145**	**$229,250**	**$0**	**$229,250**	**2.2**	**45%**	**15**	**$2,222,565**	**619**

Notes:

1. KW - Where Zero (0) values are shown in the table there is no demand reduction for this measure.
2. Rebates- Where Zero (0) values are shown in the table we could not find any rebates of other financial incentives that are currently available for this measure.

ECM# 7 - Lighting Upgrades – Costs & Savings are listed in the Lighting Summary & Inventory

ECM# 8 - At EOL, Upgrade Window AC Units w/ High Efficiency Models

Estimated Implementation Costs

GERACE - AT EOL, UPGRADE WINDOW AC UNITS w/ high efficiency models									
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Window AC Unit	Unit	2	200	400	50	100	500
	Other Estimated Implementation Costs							-
	TOTAL							**$ 500**

Estimated Savings

GERACE - SAVINGS FROM REPLACING WINDOW AC UNITS			
3. Price of Electricity, $/kWh (blended rate)	$0.167		
5. Price of Natural Gas, $/therm	$1.553		
	Existing Condition	**Proposed System**	**Savings**
Number of Units	2	2	
Capacity per Unit, Tons	0.8	0.8	
Total Capacity, Tons	2	2	
Assumed Efficiency, SEER	8.0	10.1	
Total Hours of Normal Operation, hrs	1,021	1,021	
Cooling Load Factor	60%	60%	
Annual Cooling Production, ton-hours	980	980	
Annual Cooling Load, kBTU	11,762	11,762	
Annual Peak Demand Reduction (kW)	0.2	0.2	0.04
Annual Electrical Consumption, kWh	1,470	1,165	306
Annual Cost and Savings, $	$ 246	$ 194	**$ 51**

1. Assume existing systems runs all year when outside air temperature (OAT) is above 65F from Monday through Friday.
2. Both conditions are simulated with non-programmable thermostats.
3. Load factor calculation represents the percentage of time when the unit operates at full load.
4. It is assumed that the old systems have a 10% derated efficiency of 8 SEER.
5. Assume the new units have an efficiecy of 10.1 EER.
6. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet
7. No rebates or other finanical incentives were available for this measure

ECM# 11 - VFD Controls for Univentilators

Estimated Savings

Gerace - VFD CONTROLS FOR UNIVENTILATORS								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Fractional HP VFDs	ls	37	350	12,950	-	-	12,950
	Other Estimated Implementation Costs							-
	TOTAL							**$ 12,950**

Estimated Implementation Costs

GERACE - SAVINGS FROM VFDCONTROLS FOR UNIVENTS

1. Price of Electricity, $/kWh (blended rate)				$0.167		
				Existing Condition	**Proposed System**	**Savings**
Number of FCUs or Univents				**37**	**37**	
Fan Motor HP				**0.167**	0.167	
Fan Motor Efficiency				**80%**	80%	
Annual Operating Hours				**8,760**	8,760	
Annual Fan kWh				24,218	9,129	**15,089**
Annual Cost and Savings, $				$4,044	$1,525	**$2,520**
1. Assumes average rated fan volume of 75%						
2. Run hours based on bin data and time of day factor.						
3..There is no demand reduction for this measure						
4. See Sample Calculation Below						
Existing Fan Coil Unit Data						
Fan Hp at Full Load			0.17			
Hp to Kw			0.75			
Fan Kw			0.12			
Motor Efficiency			0.80			
Net Fan Kw with Efficiency			0.10			
Constant Fan Speed Motor Annual Operating Cost						
Constant Speed	Constant Speed Hours of Operation Profile	Standard AC Motor Kwh	Cost Per Kwh	Annual Operating Cost		
1	8760	873	0.17	146		
Annual Cost at Constant Speed Fan Operation			146			
Annual KWH Savings Fan Coil VSD			15089			
Annual Cost Fan Coil VSD Operation			55			
Number of Fan Coil Unit VSDs			37			
Annual Cost Savings Fan Coil VSD			$2,520			
Fan Coil VSD Operating Cost						
Fan Coil Percent Load/Speed	Fan Coil Part Load Hours	% Run Time As VSD	Fan Coil VSD Kwh	Cost Per Kwh	Annual Operating Cost	
100%	362	4%	27	$ 0.17	$ 4.52	
90%	1539	18%	80	$ 0.17	$ 13.44	
80%	1602	18%	60	$ 0.17	$ 9.99	
70%	1774	20%	40	$ 0.17	$ 6.64	
60%	1550	18%	23	$ 0.17	$ 3.87	
50%	1314	15%	12	$ 0.17	$ 1.97	
40%	619	7%	5	$ 0.17	$ 0.77	
30%	0	0	0	$ 0.17	$ -	
Total	8760	100%	247		$ 41.20	

ECM# 15 – At EOL, Upgrade Split AC Systems w/ High Efficiency Units

Estimated Implementation Costs

Gerace - At EOL, UpgradeSplit AC Systems W/ High Efficiency Units								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	3-ton PRTU w/ Gas Heat & Econ	ea	1	3075	3,075	690	690	3,765
2	4-ton PRTU w/ Gas Heat & Econ	ea	1	4,475	4,475	795	795	5,270
	Other Estimated Implementation Costs							2,444
	TOTAL							**$ 11,479**
	New Jersey Smart Start Rebate							**$ 486**

Estimated Savings

Gerace - At EOL, Upgrade aging Split AC Systems with higher efficiency units							
3. Price of Electricity, $/kWh (blended rate)				$0.167			
5. Price of Natural Gas, $/therm				$1.553			
				Existing Condition	**Proposed System**	**Savings**	
Total Tons				6	6		
SEER				13.0	14.3		
Annual Run Hours				1,163	1,163		
Annual Peak Demand Reduction (kW)				1.1	1.0	0.10	
Annual kWh				6,441	5,856	586	
Annual Cost and Savings, $				$ 1,076	$ 978	**$ 100**	
1. Cost per kWh and therm prices taken from "# Constants" sheet.							
2. Run hours based on bin data and time of day factor.							
3. Assumed 10 - 15 Ton RTUs thorughout building							
4. See Sample Calculations below							
Tag	Tons	Run Hrs	Standard SEER Btu / Wh	Hi Eff SEER Btu / Wh	kWh Saved	Annual Savings	Incremental Cost
LIBRARY	3	1,163	13.0	14.3	293	$ 49	$ 300
FACULTY	3	1,163	13.0	14.3	293	$ 49	$ 300
Total	**6**				**586**	**$ 98**	**$ 600**
Coincidence Factor Study							
6.. ASHRAE 90.1-1989 Referenced for baseline SEER/EER							
7. Proposed SEER/EER Ratings taken from Lennox Strategos Series							

ECM# 12 - Replace Boiler(s) w/ Modulating/Modular Condensing Boilers
Estimated Implementation Costs

Gerace - Replace Boiler(s) with High Efficiency Modulating/Modular Condensing Boiler(s)								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Demo Existing Boiler(s)	hrs	16		-	400	6,400	6,400
2	Piping Re-Work	lf	50	47	2,350	10	500	2,850
5	3MMBTu Cond Boiler	ea	2	26,800	53,600		-	53,600
6	Install	hrs	120		-	100	12,000	12,000
7	Electric/Controls	ls	-	10,000	-	7,500	-	-
	Other Estimated Implementation Costs							31,674
	TOTAL							**$ 106,524**
	NJ SmartStart Rebate							**$ 6,000**

Estimated Savings

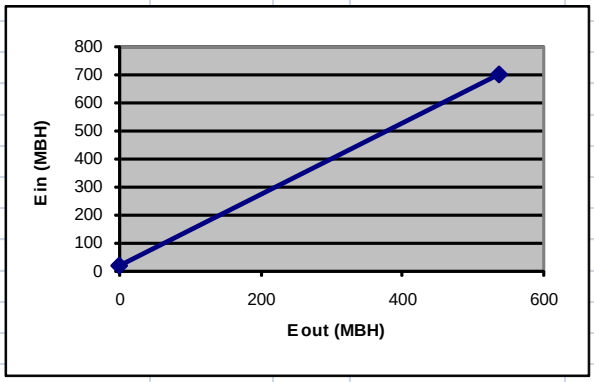
GERACE - SAVINGS FROM HIGH EFFICENCY CONDENSING BOILER						
3. Price of Electricity, $/kWh (blended rate)				$0.167		
5. Price of Natural Gas, $/therm				$1.553		
				Existing Condition	**Proposed System**	**Savings**
Boiler Plant Capacity, kBTU				5,120	5,120	
Hours of Operation				4,214	4,214	
Seasonal Efficiency				57%	93%	
Annual Gas Consumption, therms				22,117	14,050	8,067
Annual Oil Consumption, gals				0	0	-
Annual Cost and Savings, $				$ 34,348	$ 21,820	**$ 12,528**
1. Assume the boilers have a temperature reset schedule where the hot water is supplied at 180F/160F when it is 0F/40F outside.						
2. Sample Calculation Below						
			OLD BOILER(S)			
	Gas Fuel					
Eff 100%	0.77			E out		Ein
E in 100%	5120	MBH		0		128
E out 100%	3942	MBH		3942.4		5120
SBL (% Ein)	3%	0				
SBL	128	MBH				
Min E out	20%	1024				
Comb, Eff	80%	0				
m slope=	1.266233766	0				
INDIVIDUAL BOILER	0	0				
0	0	0	linear realtion			
Eout (Load)	PLR	E in	Efficiency			
0	0%	128	0%			
39	1%	178	22%			
197	5%	378	52%			
394	10%	627	63%			
788	20%	1,126	70%			
1,183	30%	1,626	73%			
1,577	40%	2,125	74%			
1,971	50%	2,624	75%			
2,365	60%	3,123	76%			
2,760	70%	3,622	76%			
3,154	80%	4,122	77%			
3,548	90%	4,621	77%			
3,942	100%	5,120	77%			

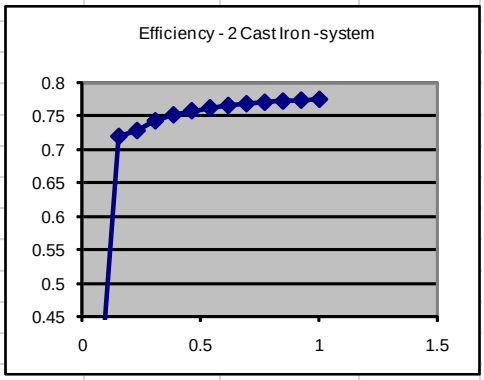
OLD BOILER(S)

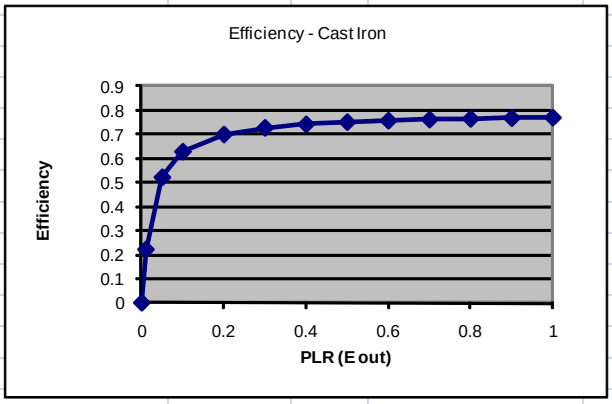
COMBINED SYSTEM BOILER PART LOAD

Capacity of each	5,120
No. of Boilers	1
Total Capacity	5,120
Avg Load Factor	12%

Load	PLR	No. of Boilers	Load per boiler	per boiler E in	plant E in	Efficiency	Gas Therm
5,120	100%	1	614	906	906	68%	118
4,726	92%	1	567	846	846	67%	2,005
4,332	85%	1	520	786	786	66%	1,376
3,938	77%	1	473	726	726	65%	2,034
3,545	69%	1	425	667	667	64%	3,106
3,151	62%	1	378	607	607	62%	3,258
2,757	54%	1	331	547	547	60%	2,800
2,363	46%	1	284	487	487	58%	1,904
1,969	38%	1	236	427	427	55%	1,666
1,575	31%	1	189	367	367	51%	1,400
1,182	23%	1	142	308	308	46%	1,150
1,024	15%	1	123	284	284	43%	1,299
0	0%	1	0	128	128	0%	0
							22,117



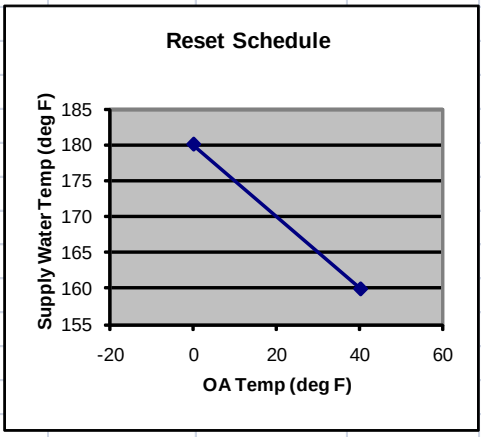




	Fuel Source	Gas	
	# Days perWeek in Ope	7	
Temp Bin	6-9pm Mon-Sun	Op Hrs M-F	Plant LOAD
0	13	13	100%
15	237	237	92%
20	175	175	85%
25	280	280	77%
30	466	466	69%
35	537	537	62%
40	512	512	54%
45	391	391	46%
50	390	390	38%
55	381	381	31%
60	374	374	23%
65	458	458	15%
	Total	4214	

NEW BOILER(S)

Max Load	5,120	MBH
Condensing Boiler Capacity	3,000	MBH Each
# Boilers	2	
Plant Capacity	6,000	
Avg Load Factor	12%	
RESET SCHEDULE	OA	SWT
	0	180
	40	160
	Reset Slope	-0.5



ECM# 3 – Vending Machine Power Management System

Estimated Implementation Costs

NORTH BLVD - VENDING MACHINE POWER MANAGEMENT SYSTEM								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	VendingMisers	EA	1	179	179	-	-	179
	TOTAL							**$ 179**

Estimated Savings

NORTH BLVD - VENDING MACHINE POWER MANAGEMENT SYSTEM			
3. Price of Electricity, $/kWh (blended rate)		$0.167	
5. Price of Natural Gas, $/therm		$1.498	
	Existing Condition	**Proposed System**	**Savings**
Soda Machine Power Consumption	100%	56%	
Run Hours	8,760	8,760	
Annual Peak Demand Reduction (kW)	0.06	0.03	0.02
Annual Energy Consumption (kWh)	2,102	925	1,177
Annual Cost and Savings, $	$ 351	$ 154	**$ 197**
1. Run hours based on fan motors being run 8760 hrs			
2. Sample Calculations Below			
Vending Machine Count	1		
Annual Run-Time Factor	60%		
VendMiser Installation Savings	0		
Soda Machine Pow er Consumption, kw	0.40		
Annual Savings %	56%		
Annual Energy Savings	$197		
Analysis Spreadsheet			
3. No rebates or other finanical incentives w ere available for this measure			
4. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet			

ECM# 7 - Lighting Upgrades – Costs & Savings are listed in the Lighting Summary & Inventory

ECM# 9 - Upgrade Major Motors to Premium Efficiency Models

Estimated Implementation Costs

North Blvd - Premium Efficiency Motors

N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	3	HP Prem Eff Motor	1	326	326	92	92	418
2	1	HP Prem Eff Motor	1	239	239	92	92	331
3	5	HP Prem Eff Motor	1	380	380	92	92	472
4								
	Other Estimated Implementation Costs							324
	TOTAL							**$ 1,544**
	New Jersey Smart Start Rebate							**$ 153**

Estimated Savings

NORTH BLVD - SAVINGS FROM PREMIUM EFFICIENCY MOTORS

3. Price of Electricity, $/kWh (blended rate) $0.167
5. Price of Natural Gas, $/therm $1.498

					ESTIMATED RUN TIME		FULL LOAD NOMINAL EFFICIENCY (%)		ELECTRIC CONSUMPTION (kWh)		SAVINGS		NJCE REBATE	Peak Demand Reduction
TAG	LOCATION	SERVICES	HP	RPM	AVG HRS	LOAD FACTOR	EXISTING	PROPOSED	EXISTING	PROPOSED	kWh	$	$	kW
HW-1	BOILER MER	HHW PUMP	3	1,800	*2,388*	*100%*	*81.5%*	89.5%	5,246	4,777	469	$ 78	$ 54	0.1
HW-2	BOILER MER	CONDENSATE RETURN PUMP	1	1,800	*2,388*	*100%*	*81.5%*	85.5%	1,749	1,667	82	$ 14	$ 45	0.0
HW-3	BOILER MER	HHW PUMP	5	1,800	*2,388*	*100%*	87.5%	89.5%	8,144	7,962	182	$ 30	$ 54	0.0
										TOTAL	**733**	**$ 122**	**$ 153**	**0.1**

1. Existing equipment data listed in italics were estimated due to unavailable information.
2. It is assumed that the breakhorse power of all motors is 80% of the nameplate horsepower.
3. Only the major motors were sampled for this calculations.
4. Run hours base on winter bin hours
5. Coincidence Factor for peak kW reduction taken from United Illuminated Company: 2005 Coincidence Factor Study

ECM# 11 - VFD Controls for Univentilators

Estimated Savings

North Blvd - VFD Controls for Univentilators

N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Fractional HP VFDs	ea	36	350	12,600	-	-	12,600
2					-		-	-
	Other Estimated Implementation Costs							6,527
	TOTAL							**$ 19,127**

Estimated Implementation Costs

NORTH BLVD - SAVINGS FROM INSTALLING VFDS ON FCU'S AND/OR UNIVENTS

1. Price of Electricity, $/kWh (blended rate) $0.167

	Existing Condition	Proposed System	Savings
Number of FCUs or Univents	**36**	**36**	
Fan Motor HP	**0.167**	0.167	
Fan Motor Efficiency	**80%**	80%	
Annual Operating Hours	**8,760**	8,760	
Annual Fan kWh	23,563	8,882	**14,681**
Annual Cost and Savings, $	$3,935	$1,483	**$2,452**

1. Assumes average rated fan volume of 75%
2. Run hours based on bin data and time of day factor.
3..There is no demand reduction for this measure
4. See Sample Calculation Below

Existing Fan Coil Unit Data

Fan Hp at Full Load	0.167
Hp to Kw	0.746
Fan Kw	0.125
Motor Efficiency	80%
Net Fan Kw with Efficiency	0.100

Constant Fan Speed Motor Annual Operating Cost

Constant Speed	Constant Speed Hours of Operation Profile	Standard AC Motor Kw h	Cost Per Kw h	Annual Operating Cost
1	8760	873	0.17	146

Annual Cost at Constant Speed Fan Operation	146
Annual KWH Savings Fan Coil VSD	14681
Annual Cost Fan Coil VSD Operation	55
Number of Fan Coil Unit VSDs	36
Annual Cost Savings Fan Coil VSD	91

Fan Coil VSD Operating Cost

Fan Coil Percent Load/Speed	Fan Coil Part Load Hours	% Run Time As VSD	Fan Coil VSD Kw h	Cost Per Kw h	Annual Operating Cost
100%	362	4%	27	$ 0.17	$ 4.52
90%	1539	18%	80	$ 0.17	$ 13.44
80%	1602	18%	60	$ 0.17	$ 9.99
70%	1774	20%	40	$ 0.17	$ 6.64
60%	1550	18%	23	$ 0.17	$ 3.87
50%	1314	15%	12	$ 0.17	$ 1.97
40%	619	7%	5	$ 0.17	$ 0.77
30%	0	0	0	$ 0.17	$ -
Total	8760	100%	247		$ 41.20

ECM# 14 – At EOL, Upgrade Heat Pump Systems w/ High Efficiency Units

Estimated Implementation Costs

North Blvd - At EOL, Upgrade Heat Pump								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	1-ton Heat Pump	ea	1	1,999	1,999	795	795	2,794
2	3-ton Heat Pump	ea	1	5,648	5,648	690	690	6,338
								9,132
	Other Estimated Implementation Costs							2,420
	TOTAL INCREMENTAL COST							**$ 11,552**
	New Jersey Smart Start Rebate							**324**

Estimated Savings

North Blvd - Replace aging Heat Pumps with higher efficiency units							
3. Price of Electricity, $/kWh (blended rate)				$0.167			
5. Price of Natural Gas, $/therm				$1.498			
				Existing Condition	**Proposed System**	**Savings**	
Total Tons				4	4		
SEER				13.0	17.0		
Annual Run Hours				574	574		
Annual Peak Demand Reduction (kW)				0.9	0.7	0.21	
Annual kWh				5,487	4,196	1,291	
Annual Cost and Savings, $				$ 916	$ 701	**$ 200**	
1. Cost per kWh and therm prices taken from "# Constants" sheet.							
2. Run hours based on bin data and time of day factor.							
3. Assumed 2 - 3 Ton Heat Pumps thorughout building							
4. See Sample Calculations below							
Tag	Tons	Run Hrs	Standard SEER Btu / Wh	Hi Eff SEER Btu / Wh	kWh Saved	Annual Savings	Incremental Cost
COMPUTER RM	3	1,486	13.0	17.0	968	$ 162	$ 300
OFFICES	1	1,486	13.0	17.0	323	$ 54	$ 100
0	0	0	0.0	0.0	0	$ -	$ -
Total	**4**				**1291**	**$ 216**	**$ 400**
5. Coincidence Factor for peak kW reduction taken from United Illuminated Company: 2005 Coincidence Factor Study							
6.. ASHRAE 90.1-1989 Referenced for baseline SEER/EER							
7. Proposed SEER/EER Ratings taken from Carrier Air Cooled Heat Pumps							

ECM# 7 - Replace Boiler(s) w/ Modulating/Modular Condensing Boilers

Estimated Implementation Costs

North Blvd - Condensing Boiler

N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	2.0 MBTU High Eff Gas Boiler	ea	3	20,550	61,650	15,000	45,000	106,650
2	Demo Existing Boilers	ls	1	4,000	4,000	12,000	12,000	16,000
3	Piping Modifications	ls	1	4,000	4,000	6,000	6,000	10,000
4	Electric/Controls	ls	1	10,000	10,000	7,500	7,500	17,500
5								
6					-		-	-
	Other Estimated Implementation Costs							55,382
	TOTAL							**$ 260,120**
	NJ Smart Start Rebate							**$ 6,000**

Estimated Savings

NORTH BLVD - SAVINGS FROM HIGH EFFICENCY CONDENSING BOILER

3. Price of Electricity, $/kWh (blended rate)	$0.167
5. Price of Natural Gas, $/therm	$1.498

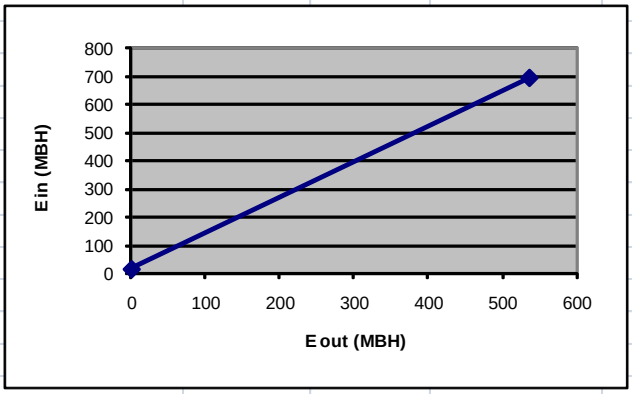
	Existing Condition	Proposed System	Savings
Boiler Plant Capacity, kBTU	5,000	5,000	
Hours of Operation	4,214	4,214	
Seasonal Efficiency	70%	93%	
Annual Gas Consumption, therms	55,623	42,306	13,317
Annual Oil Consumption, gals	0	0	-
Annual Cost and Savings, $	$ 83,323	$ 63,374	**$ 19,949**

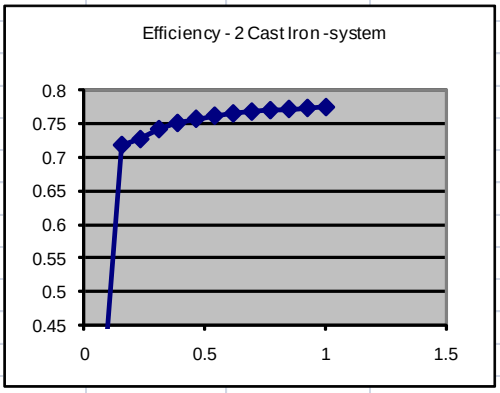
1. Assume the boilers have a temperature reset schedule where the hot water is supplied at 180F/160F when it is 0F/40F outside.
2. Sample Calculation Below

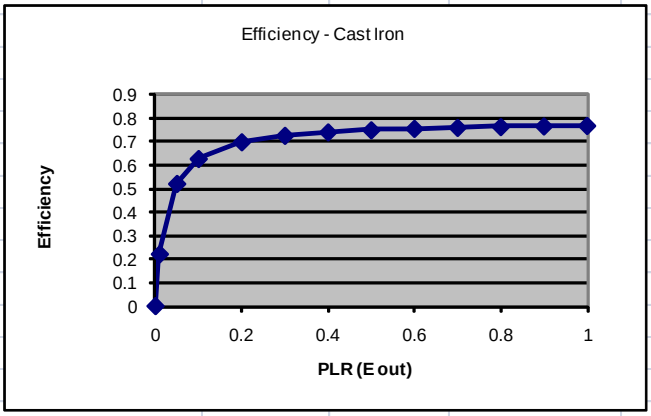
Single Boiler:

	Gas Fuel					
Eff 100%	0.77			E out		Ein
E in 100%	5000	MBH		0		125
E out 100%	3850	MBH		3850		5000
SBL (% Ein)	3%					
SBL	125	MBH				
Min E out	20%	1000				
Comb, Eff	80%					
m slope=	1.266233766					
INDIVIDUAL BOILER						
			linear realtion			
Eout (Load)	PLR	E in	Efficiency			
0	0%	125	0%			
39	1%	174	22%			
193	5%	369	52%			
385	10%	613	63%			
770	20%	1,100	70%			
1,155	30%	1,588	73%			
1,540	40%	2,075	74%			
1,925	50%	2,563	75%			
2,310	60%	3,050	76%			
2,695	70%	3,538	76%			
3,080	80%	4,025	77%			
3,465	90%	4,513	77%			
3,850	100%	5,000	77%			

COMBINED SYSTEM BOILER PART LOAD							
Capacity of each	5000						
No. of Boilers	1						
Total Capacity	5000						
Avg Load Factor	37%						
		No. of	Load	per boiler	plant	0	Gas
Load	PLR	Boilers	per boiler	E in	E in	Efficiency	Therm
5,000	100%	1	1,850	2468	2468	75%	321
4,615	92%	1	1,708	2287	2287	75%	5,421
4,231	85%	1	1,565	2107	2107	74%	3,688
3,846	77%	1	1,423	1927	1927	74%	5,395
3,462	69%	1	1,281	1747	1747	73%	8,140
3,077	62%	1	1,138	1567	1567	73%	8,412
2,692	54%	1	996	1386	1386	72%	7,098
2,308	46%	1	854	1206	1206	71%	4,716
1,923	38%	1	712	1026	1026	69%	4,001
1,538	31%	1	569	846	846	67%	3,222
1,154	23%	1	427	666	666	64%	2,489
1,000	15%	1	370	594	594	62%	2,718
							55,623







		Fuel Source	Gas	
		# Days perWeek in Ope	7	
Temp		6-9pm	Op Hrs	Plant
Bin		Mon-Sun	M-F	LOAD
0		13	13	100%
15		237	237	92%
20		175	175	85%
25		280	280	77%
30		466	466	69%
35		537	537	62%
40		512	512	54%
45		391	391	46%
50		390	390	38%
55		381	381	31%
60		374	374	23%
65		458	458	15%
0		0	0	8%
0		Total	4214	0%

ECM#1 - Install Destratification Fans in High Bay for Winter Use

Estimated Implementation Costs

Hillview - Install Destratification fans in high bays for winter use								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Install 60" fan, (115V, 100W)	ea	2	250	500	100	200	700
2	Install wiring/controls	ea	2	100	200	100	200	400
3					-		-	-
4					-		-	-
	Other Estimated Implementation Costs							352

Estimated Savings

Hillview - Install and Operate Destratification Fans in Heating Season			
3. Price of Electricity, $/kWh (blended rate)			$0.170
5. Price of Natural Gas, $/therm			$1.535

Hillview			
	Existing Condition	Proposed System	Savings
Assumed temperature gain between Tstat height and ceiling, deg F	2.5	0.0	
Additional heating energy needed to create this temperature gain, MBtu	236,792	0	**236,792**
Addirtional gas consumed, therms	2,368	0	**2,368**
Annual cost of additional gas	$ 3,635	$ -	**$ 3,635**
Additional power for fans, kWh	0	1,134	**-1,134**
Annual cost of fan power	$ -	$ 193	**$ (193)**
Net Annual Cost and Savings, $	$ 3,635	$ 193	**$ 3,442**

1 Assumes 2 - 60 inch, 115V, 100W fans.

2. There is no demand reduction for this measure

3. No rebates or other finanical incentives were available for this measure

ECM# 3 – Vending Machine Power Management System

Estimated Implementation Costs

HILLVIEW - VENDING MACHINE POWER MANAGEMENT SYSTEM								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	VendingMisers	LS	1	350	350	-	-	350
	Other Estimated Implementation Costs							-
	TOTAL							**$ 350**

Estimated Savings

HILLVIEW - VENDING MACHINE POWER MANAGEMENT SYSTEM			
3. Price of Electricity, $/kWh (blended rate)	$0.170		
5. Price of Natural Gas, $/therm	$1.535		
	Existing Condition	**Proposed System**	**Savings**
Soda Machine Power Consumption	100%	56%	
Run Hours	8,760	8,760	
Annual Peak Demand Reduction (kW)	0.06	0.03	0.02
Annual Energy Consumption (kWh)	2,102	925	1,177
Annual Cost and Savings, $	$ 357	$ 157	**$ 200**
1. Run hours based on fan motors being run 8760 hrs			
2. Sample Calculations Below			
Vending Machine Count	1		
Annual Run-Time Factor	60%		
VendMiser Installation Savings	0		
Soda Machine Pow er Consumption, kw	0.40		
Annual Savings %	56%		
Annual Energy Savings	$200		
Analysis Spreadsheet			
3. No rebates or other finanical incentives w ere available for this measure			
4. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet			

ECM# 7 - Lighting Upgrades – Costs & Savings are listed in the Lighting Summary & Inventory

ECM# 8 - At EOL, Upgrade Window AC Units w/ High Efficiency Models

Estimated Implementation Costs

HILLVIEW - AT EOL, UPGRADE WINDOW AC UNITS w/ High efficiency models								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Window AC Unit	Unit	5	200	1,000	50	250	1,250
	Other Estimated Implementation Costs							-
	TOTAL							**$ 1,250**

Estimated Savings

HILLVIEW - UPGRADE WINDOW AC UNITS			
3. Price of Electricity, $/kWh (blended rate)	$0.170		
5. Price of Natural Gas, $/therm	$1.535		
	Existing Condition	**Proposed System**	**Savings**
Number of Units	5	5	
Capacity per Unit, Tons	0.8	0.8	
Total Capacity, Tons	4	4	
Assumed Efficiency, SEER	8.0	10.1	
Total Hours of Normal Operation, hrs	1,021	1,021	
Cooling Load Factor	60%	60%	
Annual Cooling Production, ton-hours	2,450	2,450	
Annual Cooling Load, kBTU	29,405	29,405	
Annual Peak Demand Reduction (kW)	0.5	0.4	0.11
Annual Electrical Consumption, kWh	3,676	2,911	764
Annual Cost and Savings, $	$ 625	$ 495	**$ 130**

1. Assume existing systems runs all year when outside air temperature (OAT) is above 65F from Monday through Friday.
2. Both conditions are simulated with non-programmable thermostats.
3. Load factor calculation represents the percentage of time when the unit operates at full load.
4. It is assumed that the old systems have a 10% derated efficiency of 8 SEER.
5. Assume the new units have an efficiecy of 10.1 EER.
6. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet
7. No rebates or other finanical incentives were available for this measure

ECM# 11 - VFD Controls for Univentilators

Estimated Savings

Hillview - VFD Controls for Univentilators

N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Fractional HP VFDs	ls	35	350	12,250	-	-	12,250
2					-		-	-
	Other Estimated Implementation Costs							-
	TOTAL							**$ 12,250**

Estimated Implementation Costs

HILLVIEW - SAVINGS FROM VFD CONTROLS ON UNIVENTS

1. Price of Electricity, $/kWh (blended rate) $0.170

	Existing Condition	Proposed System	Savings
Number of FCUs or Univents	**35**	**35**	
Fan Motor HP	**0.167**	0.167	
Fan Motor Efficiency	**80%**	80%	
Annual Operating Hours	**8,760**	8,760	
Annual Fan kWh	22,909	8,636	**14,273**
Annual Cost and Savings, $	$3,895	$1,468	**$2,426**

1. Assumes average rated fan volume of 75%
2. Run hours based on bin data and time of day factor.
3..There is no demand reduction for this measure
4. See Sample Calculation Below

Existing Fan Coil Unit Data

Fan Hp at Full Load	0.17
Hp to Kw	0.746
Fan Kw	0.12
Motor Efficiency	0.80
Net Fan Kw with Efficiency	0.10

Constant Fan Speed Motor Annual Operating Cost

Constant Speed	Constant Speed Hours of Operation Profile	Standard AC Motor Kw h	Cost Per Kw h	Annual Operating Cost
1	8760	873	0.17	148

Annual Cost at Constant Speed Fan Operation	148
Annual KWH Savings Fan Coil VSD	14273
Annual Cost Fan Coil VSD Operation	56
Number of Fan Coil Unit VSDs	35
Annual Cost Savings Fan Coil VSD	$2,426

Fan Coil VSD Operating Cost

Fan Coil Percent Load/Speed	Fan Coil Part Load Hours	% Run Time As VSD	Fan Coil VSD Kw h	Cost Per Kw h	Annual Operating Cost
100%	362	4%	27	$ 0.17	$ 4.60
90%	1539	18%	80	$ 0.17	$ 13.68
80%	1602	18%	60	$ 0.17	$ 10.17
70%	1774	20%	40	$ 0.17	$ 6.76
60%	1550	18%	23	$ 0.17	$ 3.94
50%	1314	15%	12	$ 0.17	$ 2.00
40%	619	7%	5	$ 0.17	$ 0.79
30%	0	0	0	$ 0.17	$ -
Total	8760	100%	247		$ 41.94

ECM# 15 – At EOL, Upgrade Split AC Systems w/ High Efficiency Units

Estimated Implementation Costs

Hillview - At EOL, Upgrade Split AC Systems with High Efficiency Units								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	2-ton PRTU w/ Gas Heat & Econ	ea	1	3075	3,075	690	690	3,765
2	3-ton PRTU w/ Gas Heat & Econ	ea	2	3075	6,150	690	1,380	7,530
3	4-ton PRTU w/ Gas Heat & Econ	ea	1	4,475	4,475	795	795	5,270
1	5-ton PRTU w/ Gas Heat & Econ	ea	1	9,570	9,570	1,050	1,050	10,620
	Other Estimated Implementation Costs							10,643
	TOTAL INCREMENTAL COST							**$ 37,828**
	New Jersey Smart Start Rebate							**$ 1,377**

Estimated Savings

Hillview - At EOL, Upgrade aging Split ACs with higher efficiency units

3. Price of Electricity, $/kWh (blended rate)	$0.170
5. Price of Natural Gas, $/therm	$1.535

	Existing Condition	Proposed System	Savings
Total Tons	17	17	
SEER	13.0	14.3	
Annual Run Hours	1,163	1,163	
Annual Peak Demand Reduction (kW)	3.0	2.7	0.27
Annual kWh	18,250	16,591	1,659
Annual Cost and Savings, $	$ 3,103	$ 2,820	**$ 280**

2. Run hours based on bin data and time of day factor.

4. See Sample Calculations below

Tag	Tons	Run Hrs	Standard SEER Btu / Wh	Hi Eff SEER Btu / Wh	kWh Saved	Annual Savings	Incremental Cost
FACULTY RM	2	1,163	13.0	14.3	195	$ 33	$ 200
MEDIA CENTI	5	1,163	13.0	14.3	488	$ 83	$ 500
MAIN OFFICE	4	1,163	13.0	14.3	390	$ 66	$ 400
PRINCIPAL	3	1,163	13.0	14.3	293	$ 50	$ 300
NURSE	3	1,163	13.0	14.3	293	$ 50	$ 300
0	0	0	0.0	0.0	0	$ -	$ -
0	0	0	0.0	0.0	0	$ -	$ -
Total	**17**				**1659**	**$ 282**	**$ 1,700**

Coincidence Factor Study

6.. ASHRAE 90.1-1989 Referenced for baseline SEER/EER

7. Proposed SEER/EER Ratings taken from Lennox Strategos Series

ECM# 12 - Replace Boiler(s) w/ Modulating/Modular Condensing Boilers

Estimated Implementation Costs

Hillview - Condensing Boiler								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	2.0 MBTU High Eff Gas Boiler	ea	3	20,550	61,650	15,000	45,000	106,650
2	Demo Existing Boilers	ls	1	4,000	4,000	12,000	12,000	16,000
3	Piping Modifications	ls	1	4,000	4,000	6,000	6,000	10,000
4	Electric/Controls	ls	1	10,000	10,000	7,500	7,500	17,500
	Other Estimated Implementation Costs							57,264
	TOTAL							**$ 207,414**
	NJ SmartStart Rebate							**$ 6,000**

Estimated Savings

HILLVIEW - SAVINGS FROM HIGH EFFICENCY CONDENSING BOILER

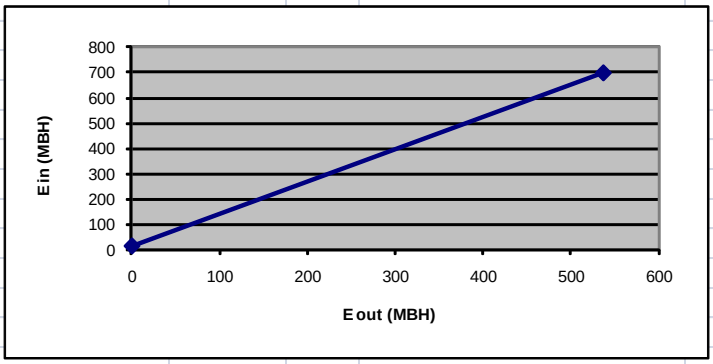
3. Price of Electricity, $/kWh (blended rate)				$0.170			
5. Price of Natural Gas, $/therm				$1.535			
				Existing Condition	**Proposed System**	**Savings**	
Boiler Plant Capacity, kBTU				2,750	2,750		
Hours of Operation				4,214	4,214		
Seasonal Efficiency				69%	93%		
Annual Gas Consumption, therms				27,598	20,753	6,846	
Annual Oil Consumption, gals				0	0	-	
Annual Cost and Savings, $				$ 42,363	$ 31,855	**$ 10,508**	

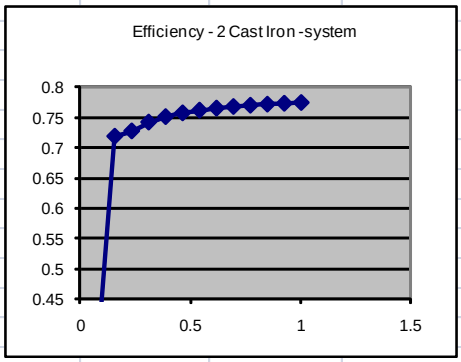
1. Assume the boilers have a temperature reset schedule where the hot water is supplied at 180F/160F when it is 0F/40F outside.

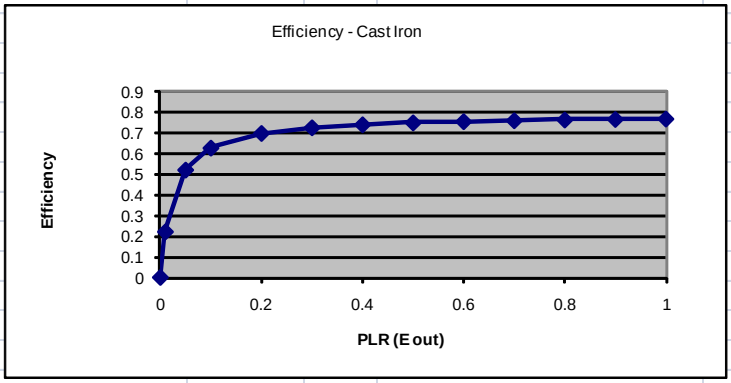
2. Sample Calculation Below

Single Boiler:			OLD BOILER(S)			
	Gas Fuel					
Eff 100%	0.77			E out		Ein
E in 100%	2750	MBH		0		68.75
E out 100%	2118	MBH		2117.5		2750
SBL (% Ein)	3%					
SBL	68.75	MBH				
Min E out	20%	550				
Comb, Eff	80%					
m slope=	1.266					
INDIVIDUAL BOILER						
			linear realtion			
Eout (Load)	PLR	E in	Efficiency			
0	0%	69	0%			
21	1%	96	22%			
106	5%	203	52%			
212	10%	337	63%			
424	20%	605	70%			
635	30%	873	73%			
847	40%	1,141	74%			
1,059	50%	1,409	75%			
1,271	60%	1,678	76%			
1,482	70%	1,946	76%			
1,694	80%	2,214	77%			
1,906	90%	2,482	77%			
2,118	100%	2,750	77%			

COMBINED SYSTEM BOILER PART LOAD			OLD BOILER(S)				
Capacity of each	0	2750	0				
No. of Boilers	0	1	0				
Total Capacity	0	2750	0				
0	0%	No. of	Load				
Load	PLR	Boilers	per boiler	per boiler	plant	0	Gas
0	0	0	0	E in	E in	Efficiency	Therm
2,750	100%	1	908	1218	1218	75%	158
2,538	92%	1	838	1129	1129	74%	2,677
2,327	85%	1	768	1041	1041	74%	1,822
2,115	77%	1	698	953	953	73%	2,668
1,904	69%	1	628	864	864	73%	4,028
1,692	62%	1	558	776	776	72%	4,167
1,481	54%	1	489	688	688	71%	3,520
1,269	46%	1	419	599	599	70%	2,343
1,058	38%	1	349	511	511	68%	1,992
846	31%	1	279	422	422	66%	1,609
635	23%	1	209	334	334	63%	1,249
550	15%	1	182	299	299	61%	1,367
0	0%	1	0	69	69	0%	0
							27,598







	Fuel Source	Gas	
	# Days perWeek in Ope	7	
Temp	6-9pm	Op Hrs	Plant
Bin	Mon-Sun	M-F	LOAD
0	13	13	100%
15	237	237	92%
20	175	175	85%
25	280	280	77%
30	466	466	69%
35	537	537	62%
40	512	512	54%
45	391	391	46%
50	390	390	38%
55	381	381	31%
60	374	374	23%
65	458	458	15%
0	0	0	8%
0	Total	4214	0%

ECM#2 - Install / Upgrade Pipe Insulation (pump casings)

Estimated Implementation Costs

High School - Install / Upgrade Pipe Insulation								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Install 1" Pipe Insulation	sf	30	2.31	69		-	69
	Other Estimated Implementation Costs							-
	TOTAL							**$ 69**

Estimated Savings

High School - Install / Upgrade Pipe insulation

3. Price of Electricity, $/kWh (blended rate)	$0.162
5. Price of Natural Gas, $/therm	$1.498

	Existing Condition	Proposed System	Savings
Number of Ft of underinsulated pipe	30	30	
Inches of insulation	0	1	
Annual MBtu losses	11,784	3,470	**8,314**
Annual Therms lost	118	35	**83**
Annual Cost and Savings, $	$ 177	$ 52	**$ 120**

1. Assumes HHW supply temp on 180 degrees F
2. Assumes 30 feet of 4.00 inch pipe.
3. There is no demand reduction for this measure
4. No rebates or other finanical incentives were available for this measure
5. See Sample Calculation Below

Current Operation with HWS Temp of 180 deg F

OA Temp	HWS Temp	Radiant Losses** btu/ft/hr	Radiant Losses** btu/ft/hr	Bin Hours	Existing BTU's Losses	Proposed BTU's Losses	Saved BTU's Losses
0	180	54	16	4	6,480	1,908	4,572
5	180	54	16	13	21,060	6,201	14,859
10	180	54	16	37	59,940	17,649	42,291
15	180	54	16	102	165,240	48,654	116,586
20	180	54	16	193	312,660	92,061	220,599
25	180	54	16	315	510,300	150,255	360,045
30	180	54	16	559	905,580	266,643	638,937
35	180	54	16	688	1,114,560	328,176	786,384
40	180	54	16	796	1,289,520	379,692	909,828
45	180	54	16	763	1,236,060	363,951	872,109
50	180	54	16	760	1,231,200	362,520	868,680
55	180	54	16	728	1,179,360	347,256	832,104
60	180	54	16	709	1,148,580	338,193	810,387
65	180	54	16	767	1,242,540	365,859	876,681
70	180	54	16	840	1,360,800	400,680	960,120
75	180	54	16	657			
80	180	54	16	454			
85	180	54	16	243			
90	180	54	16	95			
95	180	54	16	30			
100	180	54	16	4			
105	180	54	16	0			
				Total BTU's	11,783,880	3,469,698	8,314,182
0	0	0.00	0.00	0	0.00	0.00	0.00
0	0	0.00	0.00	0	0.00	0.00	0.00
Interpolato	0	0.00	0.00	0	0.00	0.00	0.00
0	Existing	0.00	0.00	0	0.00	0.00	0.00
0	Heat trans	0.00	0.00	0	0.00	0.00	0.00
Operating	1/2 in bare	0.00	0.00	0	0.00	0.00	0.00

ECM# 3 – Vending Machine Power Management System

Estimated Implementation Costs

HIGH SCHOOL - VENDINGMISERS								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	VendingMisers	EA	10	179	1,790	-	-	1,790
	TOTAL							**$ 1,790**

Estimated Savings

HIGH SCHOOL - VENDING MACHINE POWER MANAGEMENT SYSTEM				
3. Price of Electricity, $/kWh (blended rate)		$0.162		
5. Price of Natural Gas, $/therm		$1.498		
		Existing Condition	**Proposed System**	**Savings**
Soda Machine Power Consumption		100%	56%	
Run Hours		8,760	8,760	
Annual Peak Demand Reduction (kW)		0.6	0.26	0.24
Annual Energy Consumption (kWh)		21,024	9,251	11,773
Annual Cost and Savings, $		$ 3,406	$ 1,499	**$ 1,907**
1. Run hours based on fan motors being run 8760 hrs				
2. Sample Calculations Below				
Vending Machine Count	10			
Annual Run-Time Factor	60%			
VendMiser Installation Savings	0			
Soda Machine Pow er Consumption, kw	0.40			
Annual Savings %	56%			
Annual Energy Savings	$1,907			
Analysis Spreadsheet				
3. No rebates or other finanical incentives w ere available for this measure				
4. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet				

ECM# 10 - Implement Demand Control Ventilation in Auditorium and Library

Estimated Implementation Costs

	High School - Implement Demand Controlled Ventilation in Auditorium & Library							
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	CO2 Sensors & Control Wiring	EA	3	375	1,125	625	1,875	3,000
2	RA / OA Dampers & Actuators	EA (avg)	3	1,250	3,750	750	2,250	6,000
3	Controllers	EA	3	1,500	4,500	600.0	1,800	6,300
4	Electrical Work	EA	3	250	750	500.0	1,500	2,250
	Other Estimated Implementation Costs							4,747
	TOTAL							**$ 22,297**

Estimated Savings

High School - Demand Control Ventilation in Auditorium and Library

3. Price of Electricity, $/kWh (blended rate)	$0.162
5. Price of Natural Gas, $/therm	$1.498

	Existing Condition	Proposed System	Savings
Total (CFM)	23,300	23,300	
Average Cost Per CFM	$2.270	$1.693	
Run Hours	2,160	2,160	
Estimated Electric Use (kWh)	54,313	40,523	**13,790**
Estimated Natural Gas Use (therms)	2,831	2,112	**719**
			-
Annual Cost and Savings, $	$ 13,039	$ 9,729	**$ 3,311**

1. Assumes 100% OA using "Recirc AHU Operation" from cost per cfm calcs on "# Constants" sheet; %0A = 100% for bin ranges >70
2. Assumes 20% OA using "Recirc AHU Operation" from cost per cfm calcs on "# Constants" sheet; % OA = 20% for bin range >70
3. Run hours based on bin data and time of day factor.
4. See Sample Calculation below

Unit	Serves	TOD Factor	Total CFM	Current $/CFM1	DCV $/CFM2	Estimated Savings
ANNEXAIRE	AUDITORIUM	0.247	16000	$ 2.27	$ 1.69	$ 2,273
TRANE	LIBRARY	0.247	5700	$ 2.27	$ 1.69	$ 810
TRANE	LIBRARY	0.247	1600	$ 2.27	$ 1.69	$ 227
Total			23300			$ 3,311

5.There is no demand reduction for this measure
6. No rebates or other finanical incentives were available for this measure

ECM# 5- At EOL, Dishwasher Booster Heater Fuel Switch

Estimated Implementation Costs

HIGH SCHOOL - AT EOL, KITCHEN DISHWASHER BOOSTER HEATER FUEL SWITCH								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Installation Booster Water Heaters *Includes demolition of storage tank, installation of gas, electrical and pipe work.		1		-	500	500	500
2	Water Heater Booster	PMG-100	1	5,292	5,292		-	5,292
	Other Estimated Implementation Costs							1,218
	TOTAL							**$ 7,010**

Estimated Savings

HIGH SCHOOL - DISHWASHER BOOSTER HEATER FUEL SWITCH			
3. Price of Electricity, $/kWh (blended rate)	$0.162		
5. Price of Natural Gas, $/therm	$1.498		
	Existing Condition	**Proposed System**	**Savings**
Annual Op Cost	$ 646	$ 240	
Run Hours	531	531	
Annual Peak Demand Reduction (kW)	0.3	0.0	0.32
Annual Electric Consumption (kWh)	3,986		**3,986**
Annual Gas Consumption (therms)		160	**(160)**
Annual Cost and Savings, $	$ 646	$ 240	**$ 406**
1. This energy savings calculator was developed by the U.S. EPA and U.S. DOE and is provided for estimating purposes only. Actual energy savings may vary based on use and other factors.			
2. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet			
3. No rebates or other finanical incentives were available for this measure			

ECM# 6 - Lighting Upgrades – Costs & Savings are listed in the Lighting Summary & Inventory

ECM# 8 - At EOL, Upgrade Window AC Units w/ High Efficiency Models

Estimated Implementation Costs

HIGH SCHOOL - At EOL UPGRADE WINDOW AC UNITS w/ High Effieciency Models								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Window AC Unit	Unit	10	200	2,000	50	500	2,500
	Other Estimated Implementation Costs							-
	TOTAL							**$ 2,500**

Estimated Savings

HIGH SCHOOL - AT EOL, UPGRADE WINDOW AC UNITS WITH HIGH EFFICIENCY MODELS			
3. Price of Electricity, $/kWh (blended rate)	$0.162		
5. Price of Natural Gas, $/therm	$1.498		
	Existing Condition	**Proposed System**	**Savings**
Number of Units	10	10	
Capacity per Unit, Tons	0.8	0.8	
Total Capacity, Tons	8	8	
Assumed Efficiency, SEER	8.0	10.1	
Total Hours of Normal Operation, hrs	1,021	1,021	
Cooling Load Factor	60%	60%	
Annual Cooling Production, ton-hours	4,901	4,901	
Annual Cooling Load, kBTU	58,810	58,810	
Annual Peak Demand Reduction (kW)	1.1	0.8	0.22
Annual Electrical Consumption, kWh	7,351	5,823	1,528
Annual Cost and Savings, $	$ 1,191	$ 943	**$ 248**

1. Assume existing systems runs all year w hen outside air temperature (OAT) is above 65F from Monday through Friday.
2. Both conditions are simulated w ith non-programmable thermostats.
3. Load factor calculation represents the percentage of time w hen the unit operates at full load.
4. It is assumed that the old systems have a 10% derated efficiency of 8 SEER.
5. Assume the new units have an efficiecy of 10.1 EER.
6. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet
7. No rebates or other finanical incentives w ere available for this measure

ECM# 9 - Upgrade Major Motors to Premium Efficiency Models

Estimated Implementation Costs

High School - Upgrade Major Motors to Premium Efficiency Motors								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	7 1/2	HP Prem Eff Moto	1	549	549	98	98	647
2	1 1/2	HP Prem Eff Moto	1	269	269	92	92	361
3	5	HP Prem Eff Moto	1	380	380	92	92	472
	Other Estimated Implementation Costs							392
	TOTAL							**$ 1,873**
	NJ SmartStart Rebate							**$ 180**

Estimated Savings

HIGH SCHOOL - SAVINGS FROM PREMIUM EFFICIENCY MOTORS

3. Price of Electricity, $/kWh (blended rate) $0.162
5. Price of Natural Gas, $/therm $1.498

					ESTIMATED RUN TIME		FULL LOAD NOMINAL EFFICIENCY (%)		ELECTRIC CONSUMPTION (kWh)		SAVINGS		NJCE REBATE	Peak Demand Reduction
TAG	LOCATION	SERVICES	HP	RPM	AVG HRS	LOAD FACTOR	EXISTING	PROPOSED	EXISTING	PROPOSED	kWh	$	$	kW
HW-1	BOILER MER	PERIM HOT WATER	7.5	1,800	*2,388*	*100%*	*81.5%*	91.0%	13,115	11,746	1,369	$ 222	$ 81	0.2
HW-2	BOILER MER	PERIM HOT WATER	1.5	1,800	*2,388*	*100%*	*81.5%*	86.5%	2,623	2,471	152	$ 25	$ 45	0.0
HW-3	BOILER MER	PERIM HOT WATER	5	1,800	*2,388*	*100%*	*81.5%*	89.5%	8,743	7,962	782	$ 127	$ 54	0.1
										TOTAL	**2,302**	**$ 373**	**$ 180**	**0.3**

1. Existing equipment data listed in italics were estimated due to unavailable information.
2. It is assumed that the breakhorse power of all motors is 80% of the nameplate horsepower.
3. Only the major motors were sampled for this calculations.
4. Run hours base on winter bin hours
5. Coincidence Factor for peak kW reduction taken from United Illuminated Company: 2005 Coincidence Factor Study

ECM# 4 - At EOL, Upgrade Kitchen Appliances w/ Energy Star Models

Estimated Implementation Costs

HIGH SCHOOL - HOT FOOD HOLDING CABINETS								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Installation and Replacement of Hot Food Holding Cabinet		1		-	50	50	50
2	Energy Star Hot Food Holding Cabinet	See on the right	1	3,782	3,782		-	3,782
	Other Estimated Implementation Costs							-
	TOTAL							**$ 3,832**

Estimated Savings

HIGH SCHOOL - ENERGY STAR / CEE TIER I- HOT FOOD CABINET				
3. Price of Electricity, $/kWh (blended rate)		$0.162		
5. Price of Natural Gas, $/therm		$1.498		
		Existing Condition	**Proposed System**	**Savings**
Quantity		1	1	
Full Size (20 cu ft)	Actual Demand (W)	2,500	800	**1,700**
Average number of hours in "on" mode per year		2,430	2,430	
Annual Peak Demand Reduction (kW)		0.5	0.2	0.33
Total Annual Energy Savings		6,075	1,944	**4,131**
Annual Cost and Savings, $		$ 984	$ 315	**$ 669**

1. This energy savings calculator was developed by the U.S. EPA and U.S. DOE and is provided for estimating purposes only. Actual energy savings may vary based on use and other factors.

2. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet

3. No rebates or other finanical incentives were available for this measure

ECM# 4 - At EOL, Upgrade Kitchen Appliances w/ Energy Star Models

Estimated Implementation Costs

HIGH SCHOOL - SOLID DOOR COMMERCIAL REFRIGERATORS								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Installation and Replacement of Solid Door Commercial Refrigerator		7		-	50	350	350
2	Energy Star Rated Commercial Refrigerator	See on the right	7	2,450	17,150		-	17,150
	Other Estimated Implementation Costs							-
	TOTAL							**$ 17,500**

Estimated Savings

HIGH SCHOOL - ENERGY STAR/ CEE TIER I - REFRIGERATOR/FREEZER UPGRADE				
3. Price of Electricity, $/kWh (blended rate)		$0.162		
5. Price of Natural Gas, $/therm		$1.498		
		Existing Condition	**Proposed System**	**Savings**
Double Door Refrigerator (44 cu ft)	Total Annual Energy Consumption (kWh)	7,096	4,701	
Quantity		2	2	
Glass Door Reach-in Refrigerator (24 cu ft)	Total Annual Energy Consumption (kWh)	6,496	3,250	
Quantity		2	2	
Single Door Refrigerator (24 cu ft)	Total Annual Energy Consumption (kWh)	2,102	971	
Quantity		1	1	
Single Door Freezer (24 cu ft)	Total Annual Energy Consumption (kWh)	9,038	8,015	
Quantity		2	2	
Annual Peak Demand Reduction (kW)		1.5	1.1	0.37
Total Annual Energy Savings		18,236	13,688	**4,549**
Annual Cost and Savings, $		$ 2,954	$ 2,217	**$ 740**
1. This energy savings calculator was developed by the U.S. EPA and U.S. DOE and is provided for estimating purposes only. Actual energy savings may vary based on use ar				
2. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet				
3. No rebates or other finanical incentives were available for this measure				

ECM# 11 - VFD Controls for Univentilators

Estimated Implementation Costs

High School - VFD Controls for Univentilators								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Fractional HP VFDs	ea	57	350	19,950	-	-	19,950
2					-		-	-
	Other Estimated Implementation Costs							1,995
	TOTAL							**$ 21,945**

Estimated Savings

HIGH SCHOOL - SAVINGS FROM INSTALLING VFDS ON FCU'S AND/OR UNIVENTS

1. Price of Electricity, $/kWh (blended rate) $0.162

	Existing Condition	Proposed System	Savings
Number of FCUs or Univents	**57**	**57**	
Fan Motor HP	**0.167**	0.167	
Fan Motor Efficiency	**80%**	80%	
Annual Operating Hours	**8,760**	8,760	
Annual Fan kWh	14,968	5,642	**9,326**
Annual Cost and Savings, $	$2,425	$914	**$1,511**

1. Assumes average rated fan volume of 75%
2. Run hours based on bin data and time of day factor.
3..There is no demand reduction for this measure
4. See Sample Calculation Below

Existing Fan Coil Unit Data

Fan Hp at Full Load	0.17
Hp to Kw	0.75
Fan Kw	0.12
Motor Efficiency	0.80
Net Fan Kw with Efficiency	0.10

Constant Fan Speed Motor Annual Operating Cost

Constant Speed	Constant Speed Hours of Operation Profile	Standard AC Motor Kwh	Cost Per Kwh	Annual Operating Cost
1	8760	873	0.16	141

Annual Cost at Constant Speed Fan Operation	141
Annual KWH Savings Fan Coil VSD	9326
Annual Cost Fan Coil VSD Operation	53

Number of Fan Coil Unit VSDs	57
Annual Cost Savings Fan Coil VSD	88

Fan Coil VSD Operating Cost

Fan Coil Percent Load/Speed	Fan Coil Part Load Hours	% Run Time As VSD	Fan Coil VSD Kwh	Cost Per Kwh	Annual Operating Cost
100%	362	4%	11	$ 0.16	$ 1.76
90%	1539	18%	32	$ 0.16	$ 5.23
80%	1602	18%	24	$ 0.16	$ 3.89
70%	1774	20%	16	$ 0.16	$ 2.58
60%	1550	18%	9	$ 0.16	$ 1.51
50%	1314	15%	5	$ 0.16	$ 0.77
40%	619	7%	2	$ 0.16	$ 0.30
30%	0	0	0	$ 0.16	$ -
Total	8760	100%	99		$ 16.04

ECM# 12 - Install Walk-in Cooler Evaporator Fan Speed Controls

Estimated Implementation Costs

HIGH SCHOOL - WALK-IN FREEZER & COOLER EVAPORATOR FAN SPEED CONTROLS								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Install Controls for Walk-In Cooler	Kitchen	1	604	604	320	320	924
2	Install Controls for Walk-in Freezer	Kitchen	1	604	604	320	320	924
	Other Estimated Implementation Costs							492
	TOTAL							**$ 2,340**

Estimated Savings

HIGH SCHOOL - WALK-IN FREEZER & COOLER EVAPORATOR FAN CONTROL

3. Price of Electricity, $/kWh (blended rate)				$0.162		
5. Price of Natural Gas, $/therm				$1.498		
				Existing Condition	**Proposed System**	**Savings**
Evaporator Fan Savings				100%	**35%**	
Compressor Operations Savings				100%	**80%**	
Cost to Remove Evap Fan Heat Load				$ 120	$ 96	
Annual Op Cost				$ 282	$ 99	
Run Hours				**8,760**	8,760	
Annual Peak Demand Reduction (kW)				0.1	0.0	0.10
Annual Energy Consumption (kWh)				1,743	538	1,205
Annual Cost and Savings, $				$ 403	$ 195	**$ 210**
1. Run hours based on fan motors being run 8,760 hrs						
2. See Sample Calculation Below						
Box #	1	2				
Evap Coil MFR	Bally	Bally				
Evap Coil Mod #	BTL077M	BTL077M				
Evap Coil Fan Qty	2	2				
Evap Coil Fan HP	0.1	0.1				
Compressor RLA	7.4	7.4				
Voltage	480	480				
Kw	5.2	5.2				
Run Hours	8760	8760	Total			
Total kW	0.1	0.1				
Total kwh	871	871	1743			
Annual Op Cost	$ 141	$ 141	$ 282			
Heat Load, BTUH	339	339	Total			
Compressor Efficiency, kw/ton	1.5	1.5				
Cost to Remove Evap Fan Heat Load	$ 60	$ 60	$ 120			
Annual Savings %, Evap Fans	0.35	0.35	Total			
Annual Savings %, Compressor	0.8	0.8				
Annual Savings	98	98	195			
Annual kWh Savings	602	602	1205			
3. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet						

ECM# 13 - At EOL, Upgrade Aging PRTUs w/ High Efficiency Units

Estimated Implementation Costs

High School - At EOL Upgrade PRTU w/ High Efficiency Units								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	3-ton PRTU w/ Gas Heat & Econ	ea	1	3075	3,075	690	690	3,765
2	4-ton PRTU w/ Gas Heat & Econ	ea	2	4,475	8,950	795	1,590	10,540
	Other Estimated Implementation Costs							3,870
	TOTAL INCREMENTAL COST							**$ 18,175**
	New Jersey Smart Start Rebate							**$ 891**

Estimated Savings

High School - At EOL, Ipgrade aging PRTUs with higher efficiency units

3. Price of Electricity, $/kWh (blended rate)	$0.162
5. Price of Natural Gas, $/therm	$1.498

	Existing Condition	Proposed System	Savings
Total Tons	11	11	
SEER	13.0	14.3	
Annual Run Hours	1,163	1,163	
Annual Peak Demand Reduction (kW)	2.0	1.8	0.18
Annual kWh	11,809	10,735	1,074
Annual Cost and Savings, $	$ 1,913	$ 1,739	**$ 200**

1. Cost per kWh and therm prices taken from "# Constants" sheet.
2. Run hours based on bin data and time of day factor.
3. Assumed 10 - 15 Ton RTUs thorughout building
4. See Sample Calculations below

Tag	Tons	Run Hrs	Standard SEER Btu / Wh	Hi Eff SEER Btu / Wh	kWh Saved	Annual Savings	Incremental Cost
ADMIN	3	1,163	13.0	14.3	293	$ 47	$ 300
PROF DEVEL	4	1,163	13.0	14.3	390	$ 63	$ 400
PROF DEVEL	4	1,163	13.0	14.3	390	$ 63	$ 400
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	$ -	$ -
Total	**11**				**1074**	**$ 174**	**$ 1,100**

Coincidence Factor Study

6.. ASHRAE 90.1-1989 Referenced for baseline SEER/EER

7. Proposed SEER/EER Ratings taken from Lennox Strategos Series

ECM#1 - Install Destratification Fans in High Bay for Winter Use

Estimated Implementation Costs

Middle School - Install destratification fans in High Bay for Winter use								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Install 60" fan, (115V, 100W)	ea	4	250	1,000	100	400	1,400
2	Install wiring/controls	ea	4	100	400	100	400	800
	Other Estimated Implementation Costs							704
	TOTAL							**$ 2,904**

Estimated Savings

Middle School - Install Destratification Fans in High Bays for Winter Use			
3. Price of Electricity, $/kWh (blended rate)			$0.169
5. Price of Natural Gas, $/therm			$1.514

Middle School			
	Existing Condition	**Proposed System**	**Savings**
Assumed temperature gain between Tstat height and ceiling, deg F	2.5	0.0	
Additional heating energy needed to create this temperature gain, MBtu	947,167	0	**947,167**
Addirtional gas consumed, therms	9,472	0	**9,472**
Annual cost of additional gas	$ 14,340	$ -	**$ 14,340**
Additional power for fans, kWh	0	2,267	**-2,267**
Annual cost of fan power	$ -	$ 383	**$ (383)**
Net Annual Cost and Savings, $	$ 14,340	$ 383	**$ 13,957**

1 Assumes 4 - 60 inch, 115V, 100W fans.

2. There is no demand reduction for this measure

3. No rebates or other finanical incentives were available for this measure

ECM# 3 – Vending Machine Power Management System

Estimated Implementation Costs

MIDDLE SCHOOL - VENDING MACHINE POWER MANAGEMENT SYSTEM								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	VendingMisers	EA	3	179	537	-	-	537
	TOTAL							**$ 537**

Estimated Savings

MIDDLE SCHOOL - VENDING MACHINE POWER MANAGEMENT SYSTEM			
3. Price of Electricity, $/kWh (blended rate)		$0.169	
5. Price of Natural Gas, $/therm		$1.514	
	Existing Condition	**Proposed System**	**Savings**
Soda Machine Power Consumption	100%	56%	
Run Hours	8,760	8,760	
Annual Peak Demand Reduction (kW)	0.18	0.08	0.07
Annual Energy Consumption (kWh)	6,307	2,775	3,532
Annual Cost and Savings, $	$ 1,066	$ 469	**$ 597**
1. Run hours based on fan motors being run 8760 hrs			
2. Sample Calculations Below			
Vending Machine Count	3		
Annual Run-Time Factor	60%		
VendMiser Installation Savings	0		
Soda Machine Pow er Consumption, kw	0.40		
Annual Savings %	56%		
Annual Energy Savings	$597		
Analysis Spreadsheet			
3. No rebates or other finanical incentives w ere available for this measure			
4. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet			

ECM# 7 - Lighting Upgrades – Costs & Savings are listed in the Lighting Summary & Inventory

ECM# 8 - At EOL, Upgrade Window AC Units w/ High Efficiency Models

Estimated Implementation Costs

MIDDLE SCHOOL - AT EOL, UPGRADE WINDOW AC UNITS w/ HIGH EFFICIENCY MODELS								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Window AC Unit	Unit	6	200	1,200	50	300	1,500
	Other Estimated Implementation Costs							-
	TOTAL							**$ 1,500**

Estimated Savings

MIDDLE SCHOOL - AT EOL, UPGRADE WINDOW AC UNITS w/ high efficiency models			
3. Price of Electricity, $/kWh (blended rate)	$0.169		
5. Price of Natural Gas, $/therm	$1.514		
	Existing Condition	**Proposed System**	**Savings**
Number of Units	6	6	
Capacity per Unit, Tons	0.8	0.8	
Total Capacity, Tons	5	5	
Assumed Efficiency, SEER	8.0	10.1	
Total Hours of Normal Operation, hrs	1,021	1,021	
Cooling Load Factor	60%	60%	
Annual Cooling Production, ton-hours	2,940	2,940	
Annual Cooling Load, kBTU	35,286	35,286	
Annual Peak Demand Reduction (kW)	0.6	0.5	0.13
Annual Electrical Consumption, kWh	4,411	3,494	917
Annual Cost and Savings, $	$ 745	$ 590	**$ 155**
1. Assume existing systems runs all year when outside air temperature (OAT) is above 65F from Monday through Friday.			
2. Both conditions are simulated with non-programmable thermostats.			
3. Load factor calculation represents the percentage of time when the unit operates at full load.			
4. It is assumed that the old systems have a 10% derated efficiency of 8 SEER.			
5. Assume the new units have an efficiecy of 10.1 EER.			
6. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet			
7. No rebates or other finanical incentives were available for this measure			

ECM# 4 - At EOL, Upgrade Kitchen Appliances w/ Energy Star Models

Estimated Implementation Costs

MIDDLE SCHOOL - HOT FOOD HOLDING CABINETS

N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Installation and Replacement of Hot Food Holding Cabinet		3		-	50	150	150
2	Energy Star Hot Food Holding Cabinet	See on the right	3	3,782	11,346		-	11,346
	Other Estimated Implementation Costs							-
	TOTAL							**$ 11,496**

MIDDLE SCHOOL - SOLID DOOR COMMERCIAL REFRIGERATORS

N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Installation and Replacement of Solid Door Commercial Refrigerator		5		-	50	250	250
2	Energy Star Rated Commercial Refrigerator	See on the right	5	2,450	12,250		-	12,250
	Other Estimated Implementation Costs							-
	TOTAL							**$ 12,500**

Estimated Savings

ENERGY STAR / CEE TIER I- HOT FOOD CABINET

1. Price of #2 Fuel Oil, $/gal	$0.000
2. Price of City Water, $/1000 gallons	$4.000
3. Price of Electricity, $/kWh (blended rate)	$0.169
4. Price of the Demand of Electricity, $/kW/month	$0.000
5. Price of Natural Gas, $/therm	$1.514

	Existing Condition	Proposed System	Savings
Quantity	3	3	
Full Size (20 cu ft) Actual Demand (W)	2,500	800	**1,700**
Average number of hours in "on" mode per year	2,430	2,430	
Annual Peak Demand Reduction (kW)	1.5	0.5	1.00
Total Annual Energy Savings	18,225	5,832	**12,393**
Annual Cost and Savings, $	$ 3,080.03	$ 985.61	**$ 2,094.42**

1. This energy savings calculator was developed by the U.S. EPA and U.S. DOE and is provided for estimating purposes only. Actual energy savings may vary based on use and other factors.
2. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet
3. No rebates or other finanical incentives were available for this measure

ENERGY STAR/ CEE TIER I - REFRIGERATOR/FREEZER UPGRADE

1. Price of #2 Fuel Oil, $/gal	$0.000
2. Price of City Water, $/1000 gallons	$4.000
3. Price of Electricity, $/kWh (blended rate)	$0.169
4. Price of the Demand of Electricity, $/kW/month	$0.000
5. Price of Natural Gas, $/therm	$1.514

		Existing Condition	Proposed System	Savings
Double Door Refrigerator (44 cu ft)	Total Annual Energy Consumption (kWh)	7,096	4,701	
Quantity		2	2	
Glass Door Reach-in Refrigerator (24 cu ft)	Total Annual Energy Consumption (kWh)	6,496	3,250	
Quantity		2	2	
Single Door Refrigerator (24 cu ft)	Total Annual Energy Consumption (kWh)	2,102	971	
Quantity		1	1	
Double Door Freezer (44 cu ft)	Total Annual Energy Consumption (kWh)	7,482	6,680	
Quantity		1	1	
Single Door Freezer (24 cu ft)	Total Annual Energy Consumption (kWh)	4,519	4,008	
Quantity		1	1	
Annual Peak Demand Reduction (kW)		1.7	1.3	0.39
Total Annual Energy Savings		21,199	16,360	**4,839**
Annual Cost and Savings, $		$ 3,583	$ 2,765	**$ 820**

1. This energy savings calculator was developed by the U.S. EPA and U.S. DOE and is provided for estimating purposes only. Actual energy savings may vary based on use and other factors.

2. Coincidence Factor for peak kW reduction taken from Maryland Public Utility Commision: Appendix A Measure Analysis Spreadsheet

3. No rebates or other finanical incentives were available for this measure

ECM# 11 - VFD Controls for Univentilators

Estimated Savings

Middle School - VFD Controls for Unitventilators								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	Fractional HP VFDs	ea	63	350	22,050	-	-	22,050
2					-		-	-
	Other Estimated Implementation Costs							4,575
	TOTAL							**$ 26,625**

Estimated Implementation Costs

VFDS CONTROLS FOR UNIVENTILATORS

1. Price of Electricity, $/kWh (blended rate)				$0.169				
				Existing Condition	**Proposed System**	**Savings**		
Number of FCUs or Univents				**63**	**63**			
Fan Motor HP				**0.167**	0.167			
Fan Motor Efficiency				**60%**	60%			
Annual Operating Hours				**8,760**	8,760			
Annual Fan kWh				41,236	15,544	**25,692**		
Annual Cost and Savings, $				$6,969	$2,627	**$4,342**		
1. Assumes average rated fan volume of 75%								
2. Run hours based on bin data and time of day factor.								
3..There is no demand reduction for this measure								
4. See Sample Calculation Below								
Existing Fan Coil Unit Data								
Fan Hp at Full Load			0.17					
Hp to Kw			0.75					
Fan Kw			0.12					
Motor Efficiency			0.60					
Net Fan Kw with Efficiency			0.07					
Constant Fan Speed Motor Annual Operating Cost								
Constant Speed	Constant Speed Hours of Operation Profile	Standard AC Motor Kw h	Cost Per Kw h	Annual Operating Cost				
1	8760	655	0.17	111				
Annual Cost at Constant Speed Fan Operation			111					
Annual KWH Savings Fan Coil VSD			25692					
Annual Cost Fan Coil VSD Operation			42					
Number of Fan Coil Unit VSDs			63					
Annual Cost Savings Fan Coil VSD			69					
Fan Coil VSD Operating Cost								
Fan Coil Percent Load/Speed	Fan Coil Part Load Hours	% Run Time As VSD	Fan Coil VSD Kw h	Cost Per Kw h		Annual Operating Cost		
100%	362	4%	27	$ 0.17		$ 4.57		
90%	1539	18%	80	$ 0.17		$ 13.60		
80%	1602	18%	60	$ 0.17		$ 10.11		
70%	1774	20%	40	$ 0.17		$ 6.72		
60%	1550	18%	23	$ 0.17		$ 3.91		
50%	1314	15%	12	$ 0.17		$ 1.99		
40%	619	7%	5	$ 0.17		$ 0.78		
30%	0	0	0	$ 0.17		$ -		
Total	8760	100%	247			$ 41.70		

ECM# 7 - Replace Boiler(s) w/ Modulating/Modular Condensing Boilers

Estimated Implementation Costs

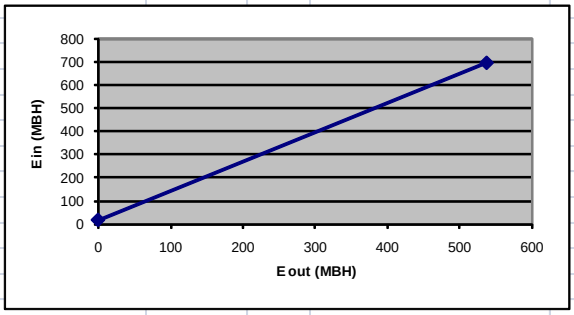
Middle School - Condensing Boiler								
N/N	DESCRIPTION OF WORK	UNIT	QTY	MATERIAL		LABOR		TOTAL
				PER UNIT	TOTAL	PER UNIT	TOTAL	
1	2.0 MBTU High Eff Gas Boiler	ea	2	20,550	41,100	15,000	30,000	71,100
2	Demo Existing Boilers	ls	1	4,000	4,000	12,000	12,000	16,000
3	Piping Modifications	ls	1	4,000	4,000	6,000	6,000	10,000
4	Electric/Controls	ls	1	10,000	10,000	7,500	7,500	17,500
	Other Estimated Implementation Costs							30,999
	TOTAL							**$ 145,599**

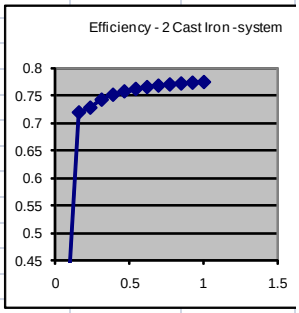
Estimated Savings

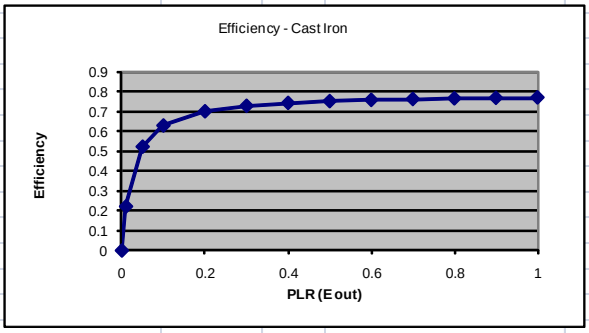
MIDDLE SCHOOL - SAVINGS FROM HIGH EFFICENCY CONDENSING BOILER

3. Price of Electricity, $/kWh (blended rate)				$0.169		
5. Price of Natural Gas, $/therm				$1.514		
				Existing Condition	**Proposed System**	**Savings**
Boiler Plant Capacity, kBTU				4,000	4,000	
Hours of Operation				4,214	4,214	
Seasonal Efficiency				73%	93%	
Annual Gas Consumption, therms				69,540	54,883	14,656
Annual Oil Consumption, gals				0	0	-
Annual Cost and Savings, $				$ 105,283	$ 83,093	**$ 22,190**
1. Assume the boilers have a temperature reset schedule where the hot water is supplied at 180F/160F when it is 0F/40F outside.						
2. Sample Calculation Below						
Single Boiler:			OLD BOILER(S)			
	Gas Fuel					
Eff 100%	0.77			E out		Ein
E in 100%	4000	MBH		0		100
E out 100%	3080	MBH		3080		4000
SBL (% Ein)	3%	0				
SBL	100	MBH				
Min E out	20%	800				
Comb, Eff	80%	0				
m slope=	1.266	0				
INDIVIDUAL BOILER	0	0				
0	0	0	linear realtion			
Eout (Load)	PLR	E in	Efficiency			
0	0%	100	0%			
31	1%	139	22%			
154	5%	295	52%			
308	10%	490	63%			
616	20%	880	70%			
924	30%	1,270	73%			
1,232	40%	1,660	74%			
1,540	50%	2,050	75%			
1,848	60%	2,440	76%			
2,156	70%	2,830	76%			
2,464	80%	3,220	77%			
2,772	90%	3,610	77%			
3,080	100%	4,000	77%			

COMBINED SYSTEM BOILER PART LOAD			OLD BOILER(S)			
Capacity of each	4000					
No. of Boilers	1					
Total Capacity	4000					
Avg Load Factor	60%					
		No. of	Load	per boiler	plant	0
Load	PLR	Boilers	per boiler	E in	E in	Efficiency
4,000	100%	1	2,400	3139	3139	76%
3,692	92%	1	2,215	2905	2905	76%
3,385	85%	1	2,031	2671	2671	76%
3,077	77%	1	1,846	2438	2438	76%
2,769	69%	1	1,662	2204	2204	75%
2,462	62%	1	1,477	1970	1970	75%
2,154	54%	1	1,292	1736	1736	74%
1,846	46%	1	1,108	1503	1503	74%
1,538	38%	1	923	1269	1269	73%
1,231	31%	1	738	1035	1035	71%
923	23%	1	554	801	801	69%
800	15%	1	480	708	708	68%

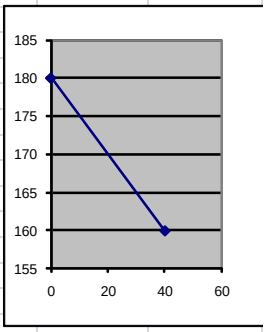






		Fuel Source	Gas
		# Days perWeek in Ope	7
	Temp	6-9pm	Op Hrs
	Bin	Mon-Sun	M-F
	0	13	13
	15	237	237
	20	175	175
	25	280	280
	30	466	466
	35	537	537
	40	512	512
	45	391	391
	50	390	390
	55	381	381
	60	374	374
	65	458	458
	0	0	0
	0	Total	4214

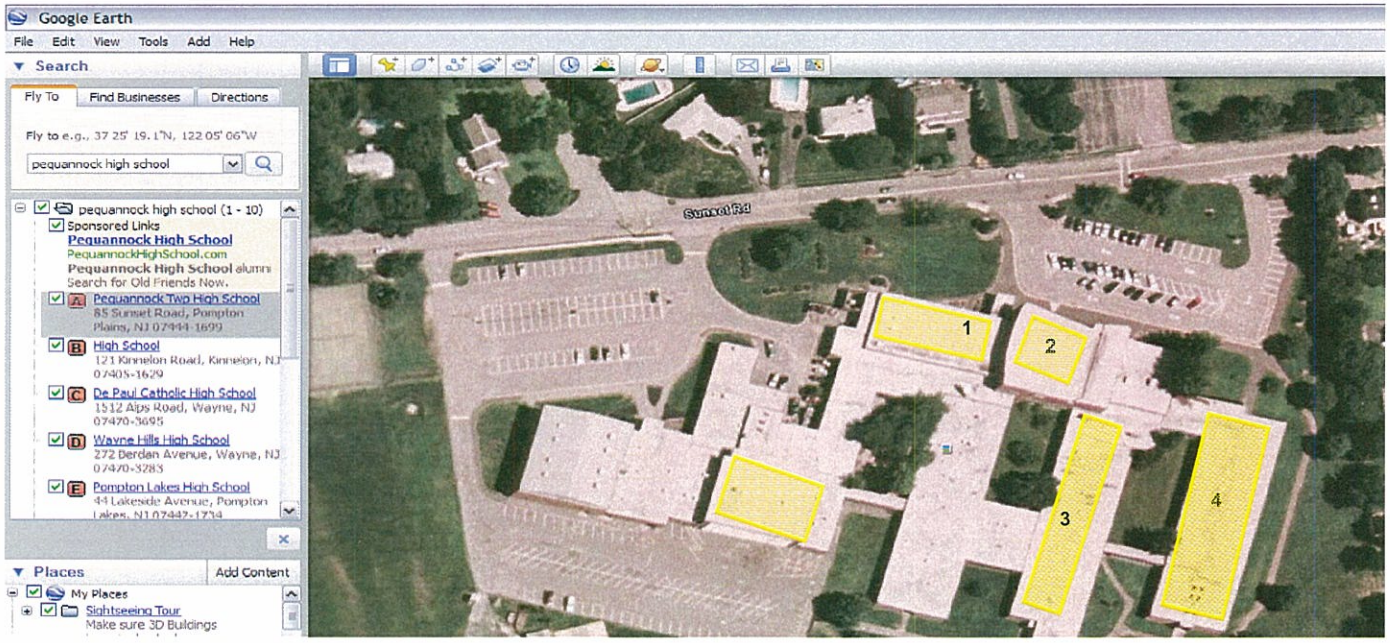
			NEW BOILER(S)
Max Load	4000	MBH	
Condensing Boiler Capacity	2000	MBH Each	
# Boilers	2		
Plant Capacity	4000		
Avg Load Factor	60%		
RESET SCHEDULE	0	OA	SWT
	Max	0	180
		40	160
	Reset Slope	-0.5	



Solar PV System - Pequannock **PEQUANNOCK HIGH SCHOOL**

Performed By Dome-Tech Energy Advisors

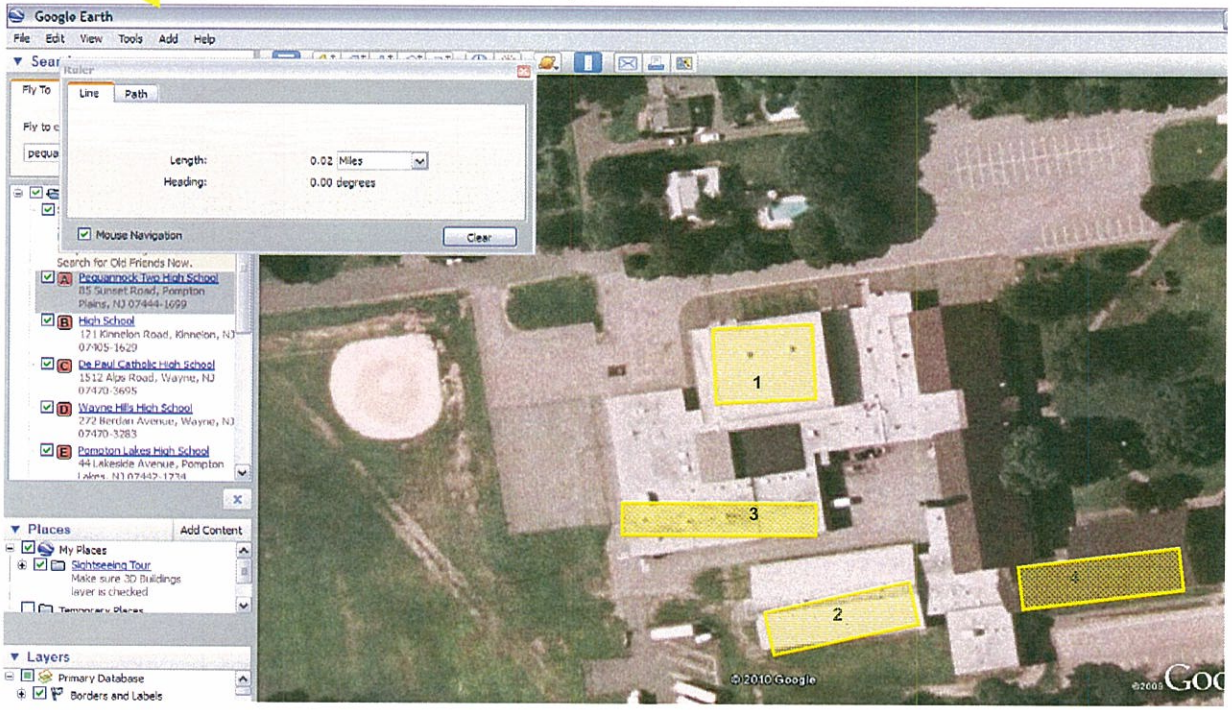
	Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	
	N/S	N/S	N/S	N/S	N/S	N/S	
Gross Length, feet	65	70	235	250	80	0	
Panel Count (calculated)	18.9	20.4	68.5	72.9	23.3	0.0	
Panel Count (actual)	18	20	68	72	23	0	
	E/W	E/W	E/W	E/W	E/W	E/W	
Gross Length, feet	100	88	70	70	100	0	
Panel Count (calculated)	19.5	17.2	13.7	13.7	19.5	0.0	
Panel Count (actual)	19	17	13	13	19	0	
Gross Panel Qty	342	340	884	936	437	0	
Panel Reduction %	75%	75%	70%	70%	70%	0%	
Net Panel Qty	257	255	619	655	306	0	2,091
							Total
System Capacity, kw	59	59	142	151	70	0	481
Choose Closest City	Newark	Newark	Newark	Newark	Newark	Newark	
Capacity Factor (kwh/kw)	1,054	1,054	1,054	1,054	1,054	1,054	
First Year Expected Production (kWh)	62,181	61,817	150,009	158,834	74,156	0	506,997



Solar PV System - PEQUANNOCK **PEQUANNOCK MIDDLE SCHOOL**

Performed By Dome-Tech Energy Advisors

	Section 1 N/S	Section 2 N/S	Section 3 N/S	Section 4 N/S	Section 5 N/S	Section 6 N/S	
Gross Length, feet	90	50	30	30	0	0	
Panel Count (calculated)	26.2	14.6	8.7	8.7	0.0	0.0	
Panel Count (actual)	26	14	8	8	0	0	
	E/W	E/W	E/W	E/W	E/W	E/W	
Gross Length, feet	80	160	130	150	0	0	
Panel Count (calculated)	15.6	31.3	25.4	29.3	0.0	0.0	
Panel Count (actual)	15	31	25	29	0	0	
Gross Panel Qty	390	434	200	232	0	0	
Panel Reduction %	75%	70%	70%	70%	70%	0%	
Net Panel Qty	293	304	140	162	0	0	899
							Total
System Capacity, kw	67	70	32	37	0	0	207
Choose Closest City	Newark	Newark	Newark	Newark	Newark	Newark	
Capacity Factor (kwh/kw)	1,054	1,054	1,054	1,054	1,054	1,054	
First Year Expected Production (kWh)	70,908	73,647	33,939	39,369	0	0	217,863



Solar PV System - HILLVIEW SCHOOL -PEQUANNOCK SCHOOLS

Performed By Dome-Tech Energy Advisors

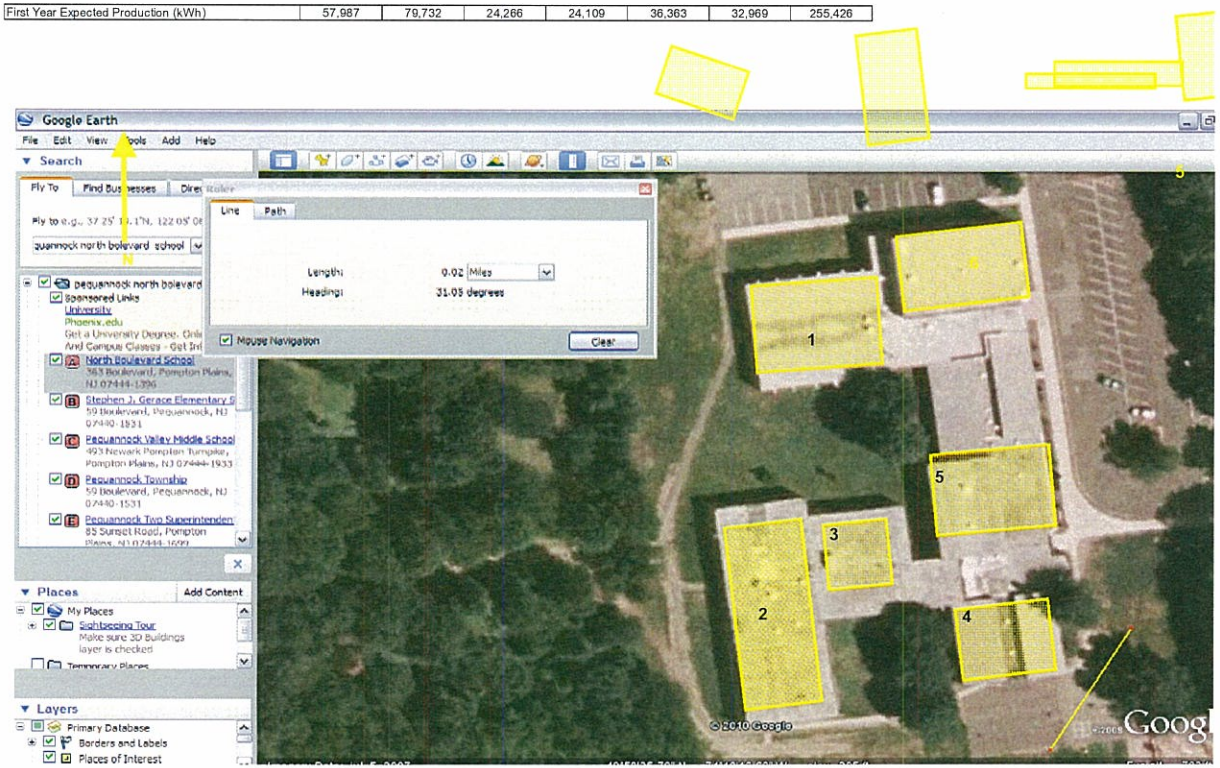
	Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	
	N/S	N/S	N/S	N/S	N/S	N/S	
Gross Length, feet	75	80	155	80	75	0	
Panel Count (calculated)	21.9	23.3	45.2	23.3	21.9	0.0	
Panel Count (actual)	21	23	45	23	21	0	
	E/W	E/W	E/W	E/W	E/W	E/W	
Gross Length, feet	85	140	70	55	40	0	
Panel Count (calculated)	16.6	27.4	13.7	10.8	7.8	0.0	
Panel Count (actual)	16	27	13	10	7	0	
Gross Panel Qty	336	621	585	230	147	0	
Panel Reduction %	48%	48%	48%	48%	70%	0%	
Net Panel Qty	161	298	281	110	103	0	953
							Total
System Capacity, kw	37	69	65	25	24	0	219
Choose Closest City	Newark	Newark	Newark	Newark	Newark	Newark	
Capacity Factor (kwh/kw)	1,054	1,054	1,054	1,054	1,054	1,054	
First Year Expected Production (kWh)	39,097	72,261	68,072	26,763	24,945	0	231,138



Solar PV System - Pequannock **North Boulevard School**

Performed By Dome-Tech Energy Advisors

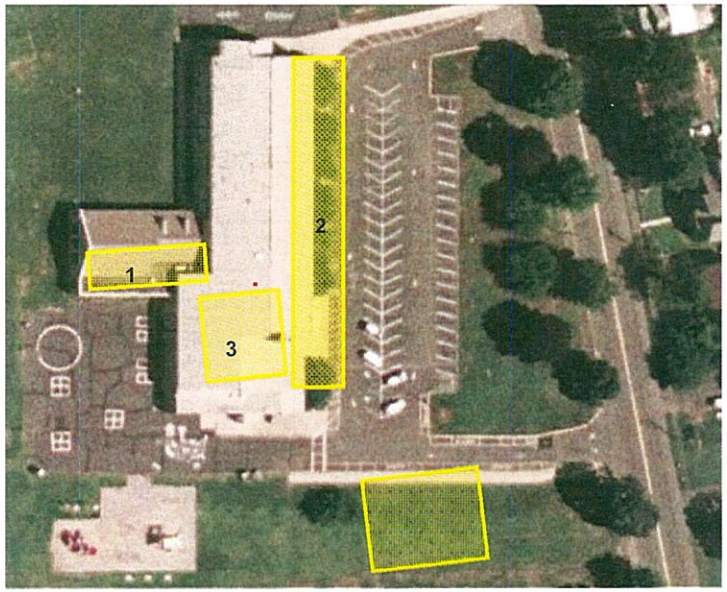
	Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	
	N/S	N/S	N/S	N/S	N/S	N/S	
Gross Length, feet	80	160	50	60	70	60	
Panel Count (calculated)	23.3	46.6	14.6	17.5	20.4	17.5	
Panel Count (actual)	23	46	14	17	20	17	
	E/W	E/W	E/W	E/W	E/W	E/W	
Gross Length, feet	85	60	60	70	80	85	
Panel Count (calculated)	16.6	11.7	11.7	13.7	15.6	16.6	
Panel Count (actual)	16	11	11	13	15	16	
Gross Panel Qty	368	506	154	221	300	272	
Panel Reduction %	65%	65%	65%	45%	50%	50%	
Net Panel Qty	239	329	100	99	150	136	1,054
							Total
System Capacity, kw	55	76	23	23	35	31	242
Choose Closest City	Newark	Newark	Newark	Newark	Newark	Newark	
Capacity Factor (kwh/kw)	1,054	1,054	1,054	1,054	1,054	1,054	
First Year Expected Production (kWh)	57,987	79,732	24,266	24,109	36,363	32,969	255,426



Solar PV System - PEQUANNOCK **SJ GERACE**

Performed By Dome-Tech Energy Advisors

	Section 1 N/S	Section 2 N/S	Section 3 N/S	Section 4 N/S	Section 5 N/S	Section 6 N/S	
Gross Length, feet	20	200					
Panel Count (calculated)	5.8	58.3	0.0	0.0	0.0	0.0	
Panel Count (actual)	5	58	0	0	0	0	
	E/W	E/W	E/W	E/W	E/W	E/W	
Gross Length, feet	50	30					
Panel Count (calculated)	9.8	5.9	0.0	0.0	0.0	0.0	
Panel Count (actual)	9	5	0	0	0	0	
Gross Panel Qty	45	290	0	0	0	0	
Panel Reduction %	75%	70%	70%	75%	70%	75%	
Net Panel Qty	34	203	0	0	0	0	237
							Total
System Capacity, kw	8	47	0	0	0	0	54
Choose Closest City	Newark	Newark	Newark	Newark	Newark	Newark	
Capacity Factor (kwh/kw)	1,054	1,054	1,054	1,054	1,054	1,054	
First Year Expected Production (kWh)	8,182	49,211	0	0	0	0	57,393



Wind Analysis - Pequannock High School

Performed By Dome-Tech Energy Advisors

Average Wind Speed	4.6	4.6	5.8
Annual Electric Use, kwh	831,040	831,040	831,040
Electric Cost	$0.16/kWh	$0.16/kWh	$0.16/kWh

Name	Pequannock High School
Annual Electric Use, kwh	831,040
Electric Cost, kwh	$ 0.162

	Micro	Traditional 5.2 kw	Traditional 50 kw
Number of Units	20	2	1
kW Capacity, per Unit	1 Kw	5.2 Kw	50.0 Kw
kW Capacity, Total	20 Kw	10 Kw	50 Kw
Annual Production Per Unit	742 Kwh	5,857 Kwh	110,472 Kwh
Annual Production Total	14,843 Kwh	11,713 Kwh	110,472 Kwh
Annual Savings	$2,405	$1,898	$17,896
Installed Cost per Unit	$6,500		
Installed Cost per Kw		$6,000	$5,000
Gross Installed Cost	$130,000	$62,400	$250,000
NJ Incentive	$47,498	$37,483	$98,436
Net Installed Cost	$82,502	$24,917	$151,564
Simple PayBack	34.3	13.1	8.5
% Energy Use	1.8%	1.4%	13.3%

Monthly Averaged Wind Speed At 10 m Above The Surface Of The Earth For Terrain Similar To Airports (m/s)

Latitude	Longitude	January	February	March	April	May	June	July	August	September	October	November	December	avg
40.57	-74.18	5.14	5.19	5.28	5.03	4.42	4.09	3.74	3.66	3.88	4.26	4.87	5.1	4.56

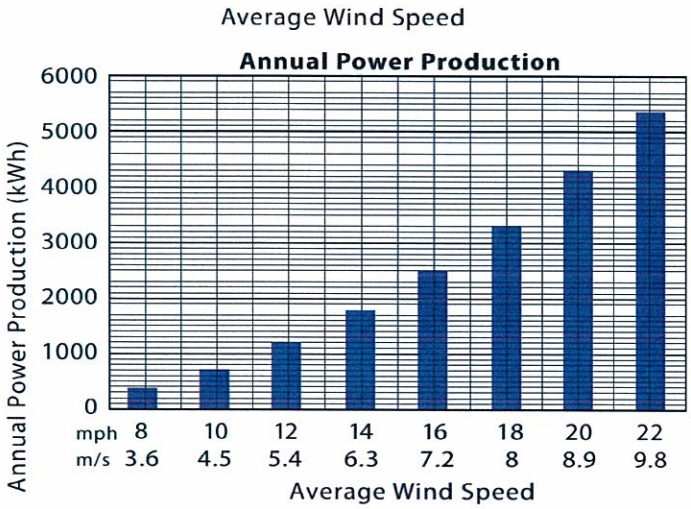
Monthly Averaged Wind Speed At 50 m Above The Surface Of The Earth (m/s)

Latitude	Longitude	January	February	March	April	May	June	July	August	September	October	November	December	avg
40.57	-74.18	6.51	6.57	6.68	6.37	5.59	5.18	4.73	4.63	4.91	5.39	6.17	6.45	5.77

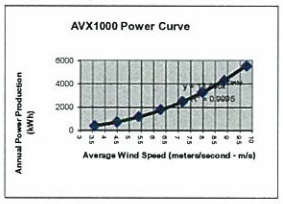
Latitude 40 34 N
Longitude 74 27 W
NASA Surface meteorology and Solar Energy: Data Subset
http://eosweb.larc.nasa.gov/cgi-bin/sse/subset.cgi?email=
UN k_mccarthy@dome-tech.com
PW dometech

http://www.awea.org/smallwind/toolbox/TOOLS/fs_safety.asp

AVX1000 Power Curve



m/s	annual kwh
3.6	390
4.5	710
5.4	1200
6.3	1800
7.2	2500
8	3300
8.9	4300
9.8	5550

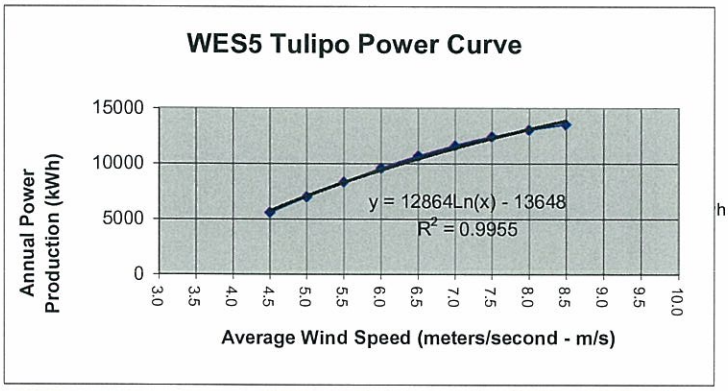


y = 13.436x^2.6458
R2 = 0.9995

Average Wind Speed 4.6 * Has to be greater than 2.2 m/s
Annual Power Producti 742.2

http://www.prevailingwindpower.com/1000AVX.pdf

WES5 Tulipo

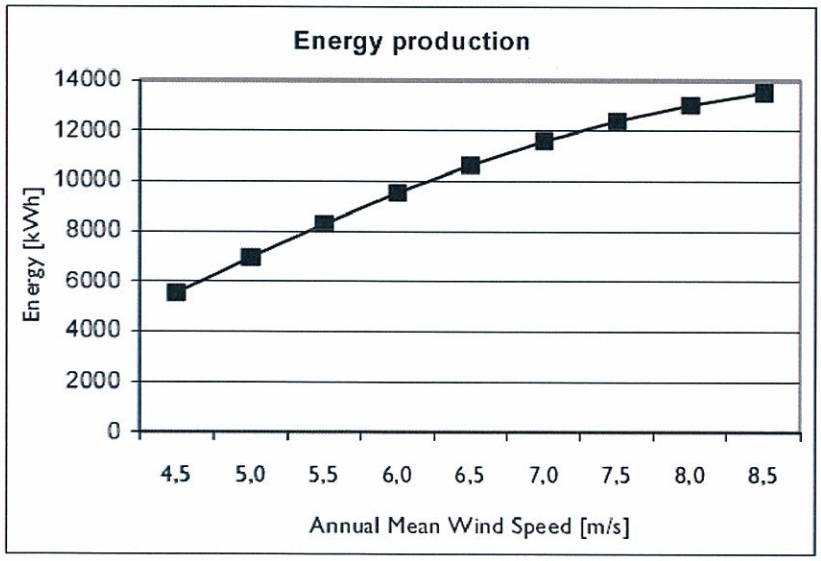


h

Wind speed [m/s]	Energy [kWh]
4,5	5541
5,0	6947
5,5	8294
6,0	9534
6,5	10638
7,0	11593
7,5	12391
8,0	13036
8,5	13534

htt

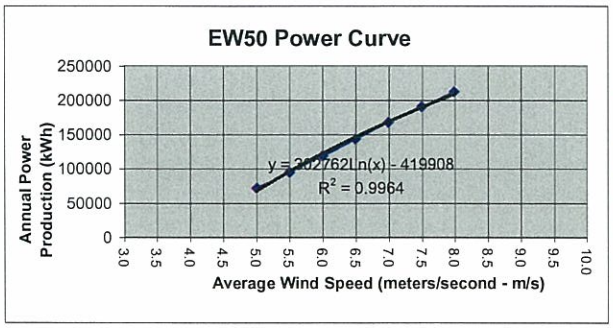
EV



) - 13648

Speed ##
Producti ##

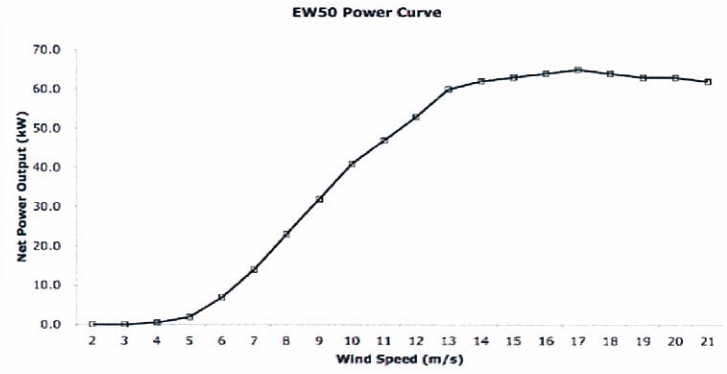
m/s	nnual kwh
5.0	72000
5.5	95000
6.0	119000
6.5	144000
7.0	168000
7.5	191000
8.0	213000



http://www.entegritywind.com/pdfs/EW50-Specs.pdf

EW50 Power Curve, 60hz

Wind Speed (m/s)	Wind Speed (mph)	Power (kW)
2	4.5	0
3	6.7	0
4	8.9	0.5
5	11.2	2.0
6	13.4	7.0
7	15.6	14.0
8	17.9	23.0
9	20.1	32.0
10	22.4	41.0
11	24.6	47.0
12	26.8	53.0
13	29.1	60.0
14	31.3	62.0
15	33.5	63.0
16	35.8	64.0
17	38.0	65.0
18	40.2	64.0
19	42.5	63.0
20	44.7	62.0
21	46.9	61.9



Expected Annual Net Energy Production (AEP)

Average Annual Wind Speed (m/s)	Average Annual Wind Speed (mph)	AEP Sea Level (kWh)
5	11.2	72,000
5.5	12.3	95,000
6	13.4	119,000
6.5	14.5	144,000
7	15.6	168,000
7.5	16.8	191,000
8	17.9	213,000