

Orange County Goshen, NY Energy Cost Avoidance Review

Installation Period and Guarantee Year 1
March 2011 through May 2013



*Helping customers manage energy resources to
improve financial performance*

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Orange County Goshen, NY



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1.0 Overview

Program Overview

Measurement & Verification Services

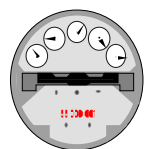
Honeywell is pleased to provide this comprehensive report of your energy consumption. This report was processed using an industry-standard program based on proven and accepted engineering formulas for energy conservation and analysis.

Service Agreement Number: 42310198
Job Number: 956-19013

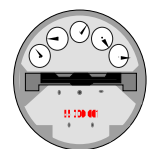
Baseline Period: May 2009 - April 2010

Installation Period: March 2011 - May 2012
Guarantee Period: June 2012 - May 2020
Guarantee Term: 8 Years
(One-time determination of cost avoidance only)

Current Reporting Period: March 2011 - May 2013
Report Preparation By: Honeywell - Americas M&V Services:
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Carolyn Gray, Energy Analyst
Report Date: August, 2013



Buildings Included in Report



- Maple Building
- Orange County Court Facility
- Orange County Correctional Facility
- DPW Administration Building
- 1841 Building & Annex

Retrofit Highlights

Energy Conservation Measures (ECMs)	Locations				
	Maple Building	Court Facility	Correctional Facility	DPW Admin	1841 Bldg & Annex
Lighting Upgrades	X	X	X	X	X
HVAC Mechanical Upgrades			X	X	
Water Efficiency Measures	X		X	X	X
Building Envelope	X			X	X
Solar Window Film	X			X	X
Solar PV Upgrades with new roof				X	
Pipe Insulation			X		

Determination of Energy Savings

Theory of Energy Management

Energy conservation measures (ECM) include the installation of equipment or systems for the purpose of reducing energy use and/or costs. The cost of ECM implementation is recovered through the savings created by the ECM. The Federal Energy Management Program (F.E.M.P) of the U.S. Department of Energy and its Measurement and Verification Guidelines for Federal Energy Projects classify measurement and verification approaches as Options A, B, C, and D. The F.E.M.P. Guideline is based on the International Performance Measurement and Verification Protocol (I.P.M.V.P.).

Option A: Verification techniques determine savings by measuring the performance of a system before and after a retrofit, either through physical measurement or the use of manufacturer data, and multiplying the difference by an agreed-upon or stipulated factor, such as hours of operation.

Option B: Verification techniques are designed for projects where long-term continuous measurement of performance is desired. Metering is conducted on an individual system level, and the measured performance is compared with a baseline to determine savings.

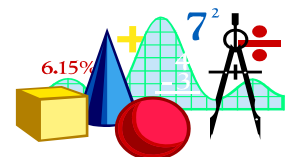
Option C: Verification techniques involve utility whole building meter analysis, reviewing overall energy use, and identifying the effects of energy projects on a facility. Energy use before and after a retrofit project is compared to determine savings.

Option D: Computer models are developed that use calibrated simulations of baseline and post-installation energy use to measure savings.

Methods Contained in This Report

Option A Verification

The pre-retrofit and post-retrofit energy usage are measured for calculation of savings for the Lighting and Water Upgrades ECMs and verified through inspection and combustion efficiency testing (boiler) for the HVAC Mechanical Upgrades, Building Envelope, Solar Window Film, Solar PV, and Pipe Insulation ECMs, per the performance contract Attachment C-1. Performance of the ECMs was demonstrated during the commissioning of the retrofits. The demonstration verified that equipment affected by the implementation of the energy savings strategies will perform adequately, ensuring that energy savings will be achieved. Completion of the demonstration was evidenced by the Final Delivery and Acceptance Certificate sign-offs. Total annual cost/energy avoidance associated with the implementation of these ECMs is stipulated as achieved upon post-installation acceptance of the demonstration.



Methodology

Orange County, NY Measurement and Verification Plan

ECM	M&V Option	Baseline Parameters	Potential to Save Verification Parameters	Guarantee Term Parameters to be Monitored
Lighting Retrofit and Motion Sensors/Vending Misers	Option A	Measured Pre retrofit Fixture KW (sample population 5% per building per fixture type), Agreed upon Hours of use, utility unit cost.	Measurement of Post Retrofit Fixture KW (sample population 5% per building per fixture type)	Walk through to confirm ECM Operation
HVAC/Mechanical Upgrades including Boilers, Chillers, VAV, and AHU's	Option A	Measured Pre retrofit combustion efficiency boiler tests, engineering calculations / utility bill baseline data, agreed upon usage per day, utility unit cost	Measured Post retrofit combustion efficiency boiler tests, confirm installation to specifications	Walk through to confirm ECM Operation
Water Upgrades	Option A	Measured Pre retrofit flow data (sample population 5% per building per fixture type), Agreed upon usage per day, utility unit cost.	Confirm fixture counts; measure post sample fixture consumption by fixture type: 5% sample per building per fixture type	Walk through to confirm ECM Operation & fixture counts
Building Envelope Upgrades	Option A	Engineering calculations / Utility Bill Baseline Data	Confirm Installation to Specifications	Walk through to confirm ECM Operation.
Window Film Upgrades	Option A	Engineering calculations / Utility Bill Baseline Data	Confirm Installation to Specifications	Walk through to confirm ECM Operation
Solar PV Upgrades with new roof	Option A	Engineering calculations / Utility Bill Baseline Data	System post installation performance data, confirm Installation to Specifications	Walk through to confirm ECM Operation
Pipe Insulation Upgrades	Option A	Engineering calculations / Utility Bill Baseline Data	Confirm Installation to Specifications	Walk through to confirm ECM Operation

Baseline Utility Rates

The Baseline Period is defined as 05/2009 to 04/2010. Baseline energy usage can be found in performance contract Schedule E - Energy Use Index.

The Baseline Utility Rates are as follows:

Building Name	Electric Rate \$/kWh	Natural Gas Rate \$/Therm
Maple Building	\$0.153	\$1.456
Orange County Court Facility	\$0.154	\$1.163
Orange County Correctional Facility	\$0.121	\$1.226
DPW Administration Building	\$0.171	\$1.244
1841 Building & Annex	\$0.154	\$1.042

Water/Sewer Rate	Rate
Correctional Facility	\$14.26
Maple Blvd	\$9.73
New Court House	\$12.47
DPW	\$10.10
1841 Building & Annex	\$10.43
Based on total consumption per quarter:	
5,000 gals	\$60 (flat fee)
5,001 – 50,000	\$9.60/K gal
50,001 – 100,000	\$11.60/K gal
100,001 – 500,000	\$15.40/K gal
500,001 +	\$17.50/K gal

2.0 Summary

Cost Avoidance Summary

Installation Period and Year 1 Results

Energy Cost Avoidance - Installation Period	\$	182,332
Energy Cost Avoidance - Year 1	\$	306,289
Adjustments	\$	-
<hr/>		
Total Energy Cost Avoidance	\$	488,621
Operational Savings	\$	26,687
<hr/>		
Total Cost Avoidance	\$	515,308
Annual Guarantee <i>(per Change Order #1 dated 12/21/11)</i>	\$	291,230
<hr/>		
Net Results	\$	224,078
Percent of Plan		177%

Cumulative Results

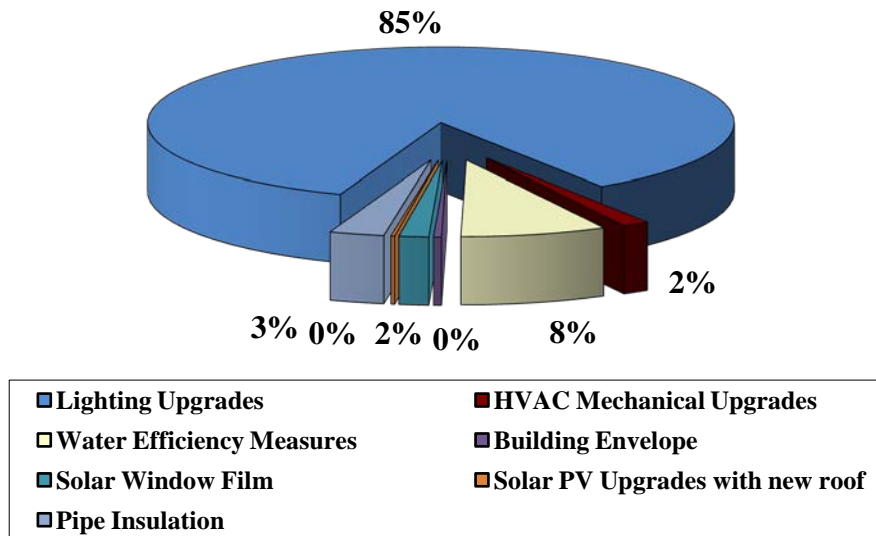
TIME PERIOD		TOTAL COST AVOIDANCE	ANNUAL TOTAL GUARANTEE	NET RESULTS
Install Pd	03/11 - 05/12	\$ 182,332	\$ -	\$ 182,332
Year 1	06/12 - 05/13	\$ 332,976	\$ 291,230	\$ 41,746
TOTAL		\$ 515,308	\$ 291,230	\$ 224,078

Note: Per Performance Contract Schedule J, Honeywell will provide a single reporting submission of the determination of Energy Cost Avoidance for the first guarantee year. The energy cost avoidance quantified in the first guarantee year will be stipulated as the annual energy cost avoidance for each guarantee year of the remainder of the guarantee term.

Cost/Unit Avoidance Breakdown

Installation Period

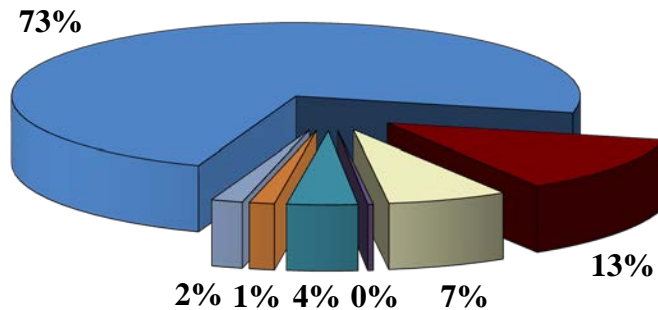
DESCRIPTION	ENERGY UNIT AVOIDANCE			ENERGY COST AVOIDANCE
	ELECTRIC KWH/YR	NAT GAS THERMS/YR	WTR/SWR KGAL/YR	
Lighting Upgrades	1,185,500			\$ 155,421
HVAC Mechanical Upgrades	21,915			\$ 2,691
Water Efficiency Measures		5,402	589	\$ 14,632
Building Envelope		555		\$ 784
Solar Window Film	16,902	287		\$ 2,969
Solar PV Upgrades with new roof	2,133			\$ 365
Pipe Insulation		4,462		\$ 5,470
TOTAL	1,226,449	10,706	589	\$ 182,332



Cost/Unit Avoidance Breakdown

Year 1 Results

DESCRIPTION	ENERGY UNIT AVOIDANCE			ENERGY COST AVOIDANCE
	ELECTRIC KWH/YR	NAT GAS THERMS/YR	WTR/SWR GAL/YR	
Lighting Upgrades	1,674,494			\$ 223,891
HVAC Mechanical Upgrades	262,981	4,374		\$ 38,429
Water Efficiency Measures		7,654	850	\$ 20,880
Building Envelope		740		\$ 977
Solar Window Film	26,075	7,849		\$ 12,265
Solar PV Upgrades with new roof	25,591			\$ 4,376
Pipe Insulation		4,462		\$ 5,470
TOTAL	1,989,140	25,080	850	\$ 306,289



■ Lighting Upgrades	■ HVAC Mechanical Upgrades
■ Water Efficiency Measures	■ Building Envelope
■ Solar Window Film	■ Solar PV Upgrades with new roof
■ Pipe Insulation	

Operational Savings

Orange County, NY

The annual guarantee of operational cost avoidance strategies are listed below. The Savings are based on the listed Energy and Operational Cost Avoidance Guarantee Practices. The operational cost savings described below are deemed satisfied upon contract execution. The Customer acknowledges and agrees that, if it did not enter into this agreement, it would have to take future steps to achieve the same ends as does the work included in Schedule A of this contract, and that, in doing so, it would incur operational costs of at least the amount per year over the life of the performance period as presented below and in the Schedule of Savings. The Customer agrees that, by entering into this agreement, it will avoid future operational costs in at least these amounts.

Further, the Customer acknowledges that operational cost savings categorized as capital cost avoidance are part of, or are causally connected to scope of work specified in Schedule A (i.e., the ECMs being implemented), and are documented by industry standard engineering methodologies acceptable to the Customer.

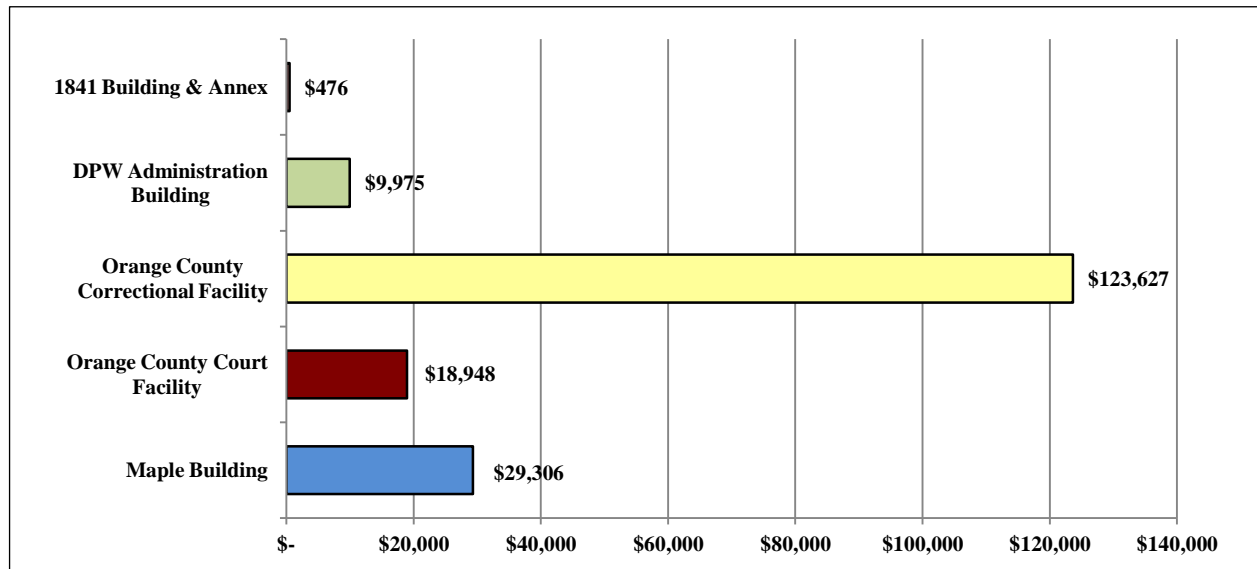
Operational Savings Description (OSD) ECM	ECM #	Cost Avoidance Category (O&M, Capital)	1st Year Cost Avoidance
Lighting Retrofit & Occupancy Sensors	1	O&M	\$9,681
Water Efficiency Measures	3	O&M	\$253
Renewable Measures – Solar with New Roof	6	Capital	\$16,753
Totals			\$26,687

3.0 Review Detail

Cost Avoidance By Location

Installation Period

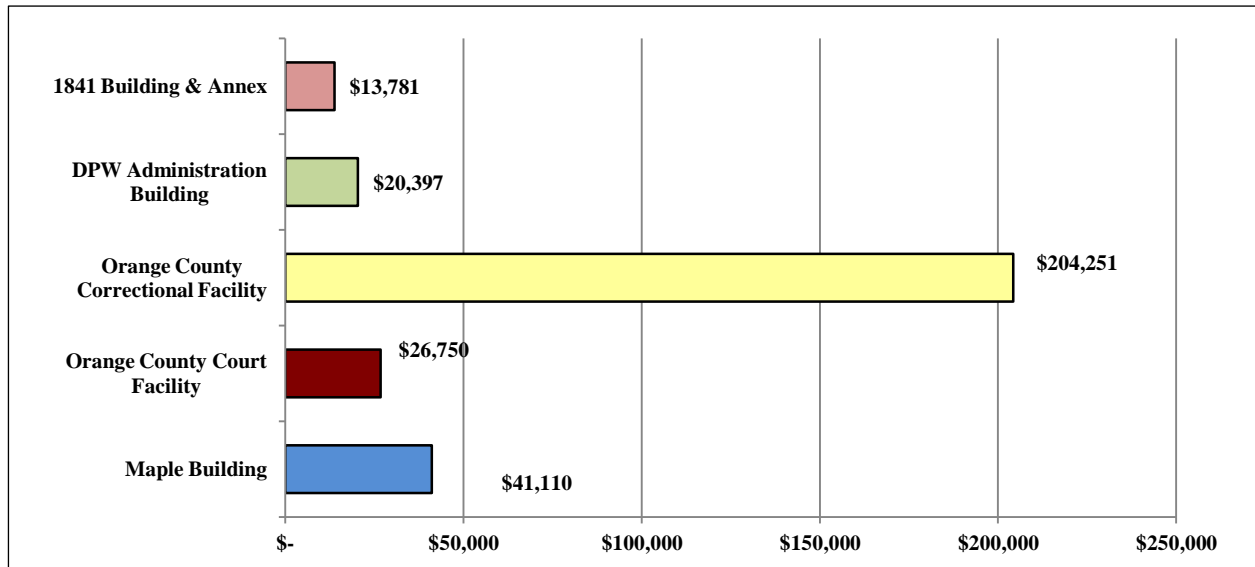
DESCRIPTION	ENERGY COST AVOIDANCE			TOTAL ENERGY COST AVOIDANCE
	ELECTRIC \$	NAT GAS \$	WTR/SWR \$	
Maple Building	\$ 27,926	\$ 758	\$ 623	\$ 29,306
Orange County Court Facility	\$ 18,948			\$ 18,948
Orange County Correctional Facility	\$ 104,560	\$ 11,972	\$ 7,095	\$ 123,627
DPW Administration Building	\$ 9,201	\$ 519	\$ 255	\$ 9,975
1841 Building & Annex	\$ 455	\$ 3	\$ 18	\$ 476
TOTAL	\$ 161,089	\$ 13,252	\$ 7,991	\$ 182,332



Cost Avoidance By Location

Year 1 Results

DESCRIPTION	ENERGY COST AVOIDANCE			TOTAL ENERGY COST AVOIDANCE
	ELECTRIC \$	NAT GAS \$	WTR/SWR \$	
Maple Building	\$ 39,424	\$ 806	\$ 880	\$ 41,110
Orange County Court Facility	\$ 26,750			\$ 26,750
Orange County Correctional Facility	\$ 174,685	\$ 19,550	\$ 10,016	\$ 204,251
DPW Administration Building	\$ 18,273	\$ 1,764	\$ 360	\$ 20,397
1841 Building & Annex	\$ 5,455	\$ 8,106	\$ 220	\$ 13,781
TOTAL	\$ 264,587	\$ 30,225	\$ 11,476	\$ 306,289



ECM #1 - Lighting & Occupancy Sensors

New energy efficient lighting and sensors were installed in place of the existing lighting systems. This retrofit included replacing standard T8 fluorescent lamps and ballasts with new T8 electronic lamps and ballasts in existing fluorescent fixtures, as well as replacing incandescent lamps with CFL's. Exit signs were replaced with new, high efficiency LED exit signs. Occupancy sensors were added in many areas.

This retrofit has resulted in reduced electrical usage for the County. The lighting retrofit detail in Attachment A-1 of the performance contract lists the installation and savings details, as well as the stipulated burn hours and actual baseline and post-retrofit input power for each room where lighting was retrofitted. A review of this detail, along with spot checks of the retrofit itself, indicate that the retrofit was properly implemented and is capable of achieving the desired results. The actual savings from this ECM are summarized in the table below. Installation period savings represent energy savings realized from September 2011 - May 2012, after Final Delivery and Acceptance signoff by Orange County. See Section 5.0 Appendix for the as-built lighting and occupancy sensor detail.

Installation Period

Lighting Electric Savings

Location	Base Yr Blended \$/kWh	Pre kWh	Post kWh	Annual kWh Saved	# of Months	\$ Savings
Maple Building	\$0.153	412,860	188,706	224,154	8.5	\$ 24,293
Orange County Court Facility	\$0.154	293,867	120,167	173,700	8.5	\$ 18,948
Orange County Correctional Facility	\$0.121	2,455,783	1,274,324	1,181,459	8.5	\$ 101,261
DPW Administration Building	\$0.171	105,322	41,518	63,805	8.5	\$ 7,728
1841 Building & Annex	\$0.154			31,377	1.0	\$ 403
TOTALS		3,267,832	1,624,715	1,674,494		\$ 152,632

Occupancy Sensor Electric Savings

Location	Base Yr \$/kWh			Annual kWh Saved	# of Months	\$ Savings
Maple Building	\$0.153			11,979	8.5	\$ 1,298
Orange County Court Facility	\$0.154			0	8.5	\$ -
Orange County Correctional Facility	\$0.121			8,664	8.5	\$ 743
DPW Administration Building	\$0.171			6,016	8.5	\$ 729
1841 Building & Annex	\$0.154			1,538	1.0	\$ 20
TOTALS				28,196		\$ 2,789

Total Savings **\$ 155,421**

ECM #1 - Lighting & Occupancy Sensors

New energy efficient lighting and sensors were installed in place of the existing lighting systems. This retrofit included replacing standard T8 fluorescent lamps and ballasts with new T8 electronic lamps and ballasts in existing fluorescent fixtures, as well as replacing incandescent lamps with CFL's. Exit signs were replaced with new, high efficiency LED exit signs. Occupancy sensors were added in many areas.

This retrofit has resulted in reduced electrical usage for the County. The lighting retrofit detail in Attachment A-1 of the performance contract lists the installation and savings details, as well as the stipulated burn hours and actual baseline and post-retrofit input power for each room where lighting was retrofitted. A review of this detail, along with spot checks of the retrofit itself, indicate that the retrofit was properly implemented and is capable of achieving the desired results. The actual savings from this ECM are summarized in the table below. See Section 5.0 Appendix for the as-built lighting and occupancy sensor detail.

Year 1

Lighting Electric Savings

Location	Base Yr Blended \$/kWh	Pre kWh	Post kWh	Annual kWh Saved	\$ Savings
Maple Building	\$0.153	412,860	188,706	224,154	\$ 34,296
Orange County Court Facility	\$0.154	293,867	120,167	173,700	\$ 26,750
Orange County Correctional Facility	\$0.121	2,455,783	1,274,324	1,181,459	\$ 142,957
DPW Administration Building	\$0.171	105,322	41,518	63,805	\$ 10,911
1841 Building & Annex	\$0.154			31,377	\$ 4,832
TOTALS		3,267,832	1,624,715	1,674,494	\$ 219,744

Occupancy Sensor Electric Savings

Location	Base Yr \$/kWh			Annual kWh Saved	\$ Savings
Maple Building	\$0.153			11,979	\$ 1,833
Orange County Court Facility	\$0.154			0	\$ -
Orange County Correctional Facility	\$0.121			8,664	\$ 1,048
DPW Administration Building	\$0.171			6,016	\$ 1,029
1841 Building & Annex	\$0.154			1,538	\$ 237
TOTALS				28,196	\$ 4,147

Total Savings **\$ 223,891**

ECM #3 - Water Efficiency Measures

New efficient fixtures were installed in place of the existing fixtures, resulting in reduced water and gas usage for the County. The water retrofit detail in Attachment C-1 of the performance contract lists the installation and fixture details. A review of this detail, along with spot checks of the retrofit itself, indicate that the retrofit was properly implemented and is capable of achieving the desired results. The actual savings from this ECM are summarized in the table below

Installation period savings represent energy savings realized from September 2011 - May 2012, after Final Delivery and Acceptance signoff by Orange County. See Section 5.0 Appendix for the as-built detail.

Installation Period

Water Savings

Location	Base Yr Blended \$/kGal	Annual kGal Saved	# of Months	\$ Savings
Maple Building	\$9.73	90	8.5	\$ 623
Orange County Correctional Facility	\$14.26	702	8.5	\$ 7,095
DPW Administration Building	\$10.10	36	8.5	\$ 255
1841 Building & Annex	\$10.43	21	1.0	\$ 18
TOTALS		850		\$ 7,991

Natural Gas Savings

Location	Base Yr \$/Therm	Annual Therms Saved	# of Months	\$ Savings
Maple Building	\$1.456	113	8.5	\$ 117
Orange County Correctional Facility	\$1.226	7,488	8.5	\$ 6,502
DPW Administration Building	\$1.244	22	8.5	\$ 19
1841 Building & Annex	\$1.042	32	1.0	\$ 3
TOTALS		7,654		\$ 6,641

Total Savings **\$ 14,632**

ECM #3 - Water Efficiency Measures

New efficient fixtures were installed in place of the existing fixtures, resulting in reduced water and gas usage for the County. The water retrofit detail in Attachment C-1 of the performance contract lists the installation and fixture details. A review of this detail, along with spot checks of the retrofit itself, indicate that the retrofit was properly implemented and is capable of achieving the desired results. The actual savings from this ECM are summarized in the table below. See Section 5.0 Appendix for the as-built detail.

Year 1

Water Savings

Location	Base Yr Blended \$/kGal	Annual kGal Saved	\$ Savings
Maple Building	\$9.73	90	\$ 880
Orange County Correctional Facility	\$14.26	702	\$ 10,016
DPW Administration Building	\$10.10	36	\$ 360
1841 Building & Annex	\$10.43	21	\$ 220
TOTALS		850	\$ 11,476

Natural Gas Savings

Location	Base Yr \$/Therm	Annual Therms Saved	\$ Savings
Maple Building	\$1.456	113	\$ 165
Orange County Correctional Facility	\$1.226	7,488	\$ 9,180
DPW Administration Building	\$1.244	22	\$ 27
1841 Building & Annex	\$1.042	32	\$ 33
TOTALS		7,654	\$ 9,404

\$ 20,880

Other Option A ECMs

The pre-retrofit and post-retrofit energy usage are verified through inspection and combustion efficiency testing (boiler) for the HVAC Mechanical Upgrades, Building Envelope, Solar Window Film, Solar PV, and Pipe Insulation ECMs, per the performance contract Attachment C-1. Performance of the ECMs was demonstrated during the commissioning of the retrofits. The demonstration verified that equipment affected by the implementation of the energy savings strategies will perform adequately, ensuring that energy savings will be achieved. Completion of the demonstration was evidenced by the Final Delivery and Acceptance Certificate sign-offs. Total annual cost/energy avoidance associated with the implementation of these ECMs is stipulated as achieved upon post-installation acceptance of the demonstration.

Installation Period

ECM #2 HVAC Mechanical Upgrades

Location	Base Yr Blended \$/kWh	Electric Annual kWh Saved	Elec # of Months	Electric \$ Savings	Curr Yr Blended \$Therm	Nat Gas Annual Therms Saved	Gas # of Months	Nat Gas \$ Savings
Orange County Correctional Facility	\$0.121	253,554	1	\$ 2,557	\$1.456	3,365	0	\$ -
DPW Administration Building	\$0.171	9,427	1	\$ 134	\$1.226	1,009	0	\$ -
TOTALS		262,981		\$ 2,691		4,374		\$ -

ECM #4 Building Envelope

Location	Base Yr Blended \$/kWh	Electric Annual kWh Saved	Elec # of Months	Electric \$ Savings	Curr Yr Blended \$Therm	Nat Gas Annual Therms Saved	Gas # of Months	Nat Gas \$ Savings
Maple Building	\$0.153			\$ -	\$1.456	440	6	\$ 641
DPW Administration Building	\$0.171			\$ -	\$1.244	115	6	\$ 143
1841 Building & Annex	\$0.154			\$ -	\$1.042	185	0	\$ -
TOTALS				\$ -		740		\$ 784

ECM #5 Solar Window Film

Location	Base Yr Blended \$/kWh	Electric Annual kWh Saved	Elec # of Months	Electric \$ Savings	Curr Yr Blended \$Therm	Nat Gas Annual Therms Saved	Gas # of Months	Nat Gas \$ Savings
Maple Building	\$0.153	21,542	8.5	\$ 2,335	\$1.456			\$ -
DPW Administration Building	\$0.171	2,023	8.5	\$ 245	\$1.244	287	6	\$ 357
1841 Building & Annex	\$0.154	2,509	1.0	\$ 32	\$1.042	7,562	0	\$ -
TOTALS		26,075		\$ 2,612		7,849		\$ 357

ECM #6 Solar PV Upgrades with new roof

Location	Base Yr Blended \$/kWh	Electric Annual kWh Saved	Elec # of Months	Electric \$ Savings	Curr Yr Blended \$Therm	Nat Gas Annual Therms Saved	Gas # of Months	Nat Gas \$ Savings
DPW Administration Building	\$0.171	25,591	1	\$ 365	\$1.244			\$ -
								\$ -
TOTALS				\$ 365		0		\$ -

ECM #7 Pipe Insulation

Location	Base Yr Blended \$/kWh	Electric Annual kWh Saved	Elec # of Months	Electric \$ Savings	Curr Yr Blended \$Therm	Nat Gas Annual Therms Saved	Gas # of Months	Nat Gas \$ Savings
Orange County Correctional Facility	\$0.121			\$ -	\$1.226	4,462	6	\$ 5,470
								\$ -
TOTALS				\$ -		4,462		\$ 5,470

Other Option A ECMs

The pre-retrofit and post-retrofit energy usage are verified through inspection and combustion efficiency testing (boiler) for the HVAC Mechanical Upgrades, Building Envelope, Solar Window Film, Solar PV, and Pipe Insulation ECMs, per the performance contract Attachment C-1. Performance of the ECMs was demonstrated during the commissioning of the retrofits. The demonstration verified that equipment affected by the implementation of the energy savings strategies will perform adequately, ensuring that energy savings will be achieved. Completion of the demonstration was evidenced by the Final Delivery and Acceptance Certificate sign-offs. Total annual cost/energy avoidance associated with the implementation of these ECMs is stipulated as achieved upon post-installation acceptance of the demonstration.

Year 1

ECM #2 HVAC Mechanical Upgrades

Location	Base Yr Blended \$/kWh	Electric Annual kWh Saved	Electric \$ Savings	Curr Yr Blended \$Therm	Nat Gas Annual Therms Saved	Nat Gas \$ Savings
Orange County Correctional Facility	\$0.121	253,554	\$ 30,680	\$1.456	3,365	\$ 4,900
DPW Administration Building	\$0.171	9,427	\$ 1,612	\$1.226	1,009	\$ 1,237
TOTALS		262,981	\$ 32,292		4,374	\$ 6,137

ECM #4 Building Envelope

Location	Base Yr Blended \$/kWh	Electric Annual kWh Saved	Electric \$ Savings	Curr Yr Blended \$Therm	Nat Gas Annual Therms Saved	Nat Gas \$ Savings
Maple Building	\$0.153		\$ -	\$1.456	440	\$ 641
DPW Administration Building	\$0.171		\$ -	\$1.244	115	\$ 143
1841 Building & Annex	\$0.154		\$ -	\$1.042	185	\$ 193
TOTALS			\$ -		740	\$ 977

ECM #5 Solar Window Film

Location	Base Yr Blended \$/kWh	Electric Annual kWh Saved	Electric \$ Savings	Curr Yr Blended \$Therm	Nat Gas Annual Therms Saved	Nat Gas \$ Savings
Maple Building	\$0.153	21,542	\$ 3,296	\$1.456		\$ -
DPW Administration Building	\$0.171	2,023	\$ 346	\$1.244	287	\$ 357
1841 Building & Annex	\$0.154	2,509	\$ 386	\$1.042	7,562	\$ 7,880
TOTALS		26,075	\$ 4,028		7,849	\$ 8,237

ECM #6 Solar PV Upgrades with new roof

Location	Base Yr Blended \$/kWh	Electric Annual kWh Saved	Electric \$ Savings	Curr Yr Blended \$Therm	Nat Gas Annual Therms Saved	Nat Gas \$ Savings
DPW Administration Building	\$0.171	25,591	\$ 4,376	\$1.244		\$ -
TOTALS		25,591	\$ 4,376		0	\$ -

ECM #7 Pipe Insulation

Location	Base Yr Blended \$/kWh	Electric Annual kWh Saved	Electric \$ Savings	Curr Yr Blended \$Therm	Nat Gas Annual Therms Saved	Nat Gas \$ Savings
Orange County Correctional Facility	\$0.121		\$ -	\$1.226	4,462	\$ 5,470
TOTALS			\$ -		4,462	\$ 5,470

4.0 Adjustments

Adjustments Summary

This Space Reserved for Operational Adjustments

5.0 Appendix

Project Installation Detail

ECM 1 – Lighting Upgrades – *Complete (9/14/11)*

Building	Start	Finish
DPW Administration Building	5/2/11	Complete – 5/6/11
Correctional Facility	5/9/11	Complete – 9/1/11
Maple Building	6/1/11	Complete – 6/24/11
New Court Facility	6/20/11	Complete – 9/14/11

- Lighting upgrades complete at all locations as of 9/14/11

ECM 2 – Mechanical Upgrades – *Complete (12/7/11)*

A. DPW Administration Building: – Complete (9/14/11)

Building	Start	Finish
Chiller Replacement	5/23/11	Complete – 6/24/11
FCU and AHU Replacements	7/11/11	Complete – 9/14/11
HW Boiler Replacement	5/11/11	Complete – 6/30/11

- All mechanical work complete at Admin Building as of 9/14/11



** New DHW Heater (Left) Lochinvar Boiler at DPW Building (Right)**



** New Carrier Chiller on left and New McQuay AHU on right at DPW Building**

Project Installation Detail

B. Correctional Facility: – Complete (12/7/11)

Building	Start	Finish
Kitchen Hoods/MAU VFD's	5/3/11	Complete – 5/6/11
Eliminate CHW and HW Pumps	5/30/11	Complete – 6/24/11
Mixing Kettle Replacements	6/23/11	Complete – 12/7/11

- MeLink kitchen hood VFD installation 100% complete as of 5/6/11
- Demo of nine (9) CHW pumps and nine (9) HW pumps – install 18 new spool pieces to complete the piping loop – installation complete as of 6/24/11
- Spool piece and backup pumps 100% insulated as of 7/15/11
- Mixing kettles delivered on 9/6/11
 - Onsite kettle modifications completed on 11/15/11
 - Kitchen kettle installation completed on 12/7/11

ECM 3 – Water Upgrades – Complete (6/30/11)

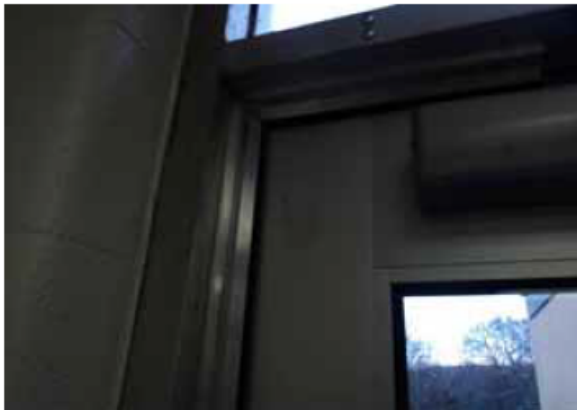
Building	Start	Finish
DPW Administration Building	6/28/11	Complete – 6/28/11
Maple Building	6/29/11	Complete – 6/29/11
Correctional Facility	6/27/11	Complete – 6/30/11

- All water upgrades 100% complete as of 6/30/11

ECM 4 – Building Envelope Upgrades – Complete (4/5/11)

Building	Start	Finish
Maple Building	4/1/11	Complete – 4/4/11
DPW Administration Building	4/4/11	Complete – 4/5/11

- Building envelope work 100% complete as of 4/5/11



Project Installation Detail

ECM 5 – Window Film Upgrades – *Complete (4/14/11)*

Building	Start	Finish
Maple Building	4/4/11	<i>Complete – 4/13/11</i>
DPW Administration Building	4/11/11	<i>Complete – 4/14/11</i>

- Window film upgrades 100% complete as of 4/14/11

ECM 6 – Solar PV Upgrades with New Roof – *Complete (3/14/12)*

Building	Start	Finish
DPW Administration Building	6/13/11	<i>Complete – 3/14/12</i>

- New roof 100% complete as of 8/12/11
- Solar material has been delivered
- Installation 100% complete as of 3/14/12



ECM 7 – Pipe Insulation Upgrades – *Complete (4/15/11)*

Building	Start	Finish
Correctional Facility	4/1/11	<i>Complete – 4/15/11</i>

- Work at Correctional Facility 100% Complete as of 4/15/11

CO Work – 1841 Building – *Complete (4/27/12)*

Building	Start	Finish
1841 Building	1/16/11	<i>Complete – 4/27/11</i>

- Window film complete as of 1/18/12
- Water upgrades complete as of 2/1/12
- Lighting 100% complete as of 3/12/12
- New door installed as of 4/27/12
- Punchlist items:
 - Semicircular tempered glass piece ¼” too big – new glass has been ordered

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
155	Maple Building	P	UT	UTILITY MECHANICAL	1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant start	1,040	14,560	14,560	14	72	0.072	1.011	75	1,051	22	0.022	0.308	23	320	0.70	731
156	Maple Building	4	OFF	OFFICE OPEN AREA	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	48,000	48,000	16	84	0.084	1.347	253	4,042	44	0.044	0.704	132	2,112	0.64	1,930
156.B1	Maple Building	4	OFF	OFFICE OPEN AREA	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	144,000	144,000	48	84	0.084	4.042	253	12,125	44	0.044	2.112	132	6,336	1.93	5,789
157	Maple Building	4	CONF	CONFERENCE ROOM A	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	12,000	12,000	4	84	0.084	0.337	253	1,010	44	0.044	0.176	132	528	0.16	482
158	Maple Building	4	CONF	CONFERENCE ROOM B	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	27,000	27,000	9	84	0.084	0.758	253	2,273	44	0.044	0.396	132	1,188	0.36	1,085
159	Maple Building	4	CONF	CONFERENCE ROOM C	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	36,000	36,000	12	84	0.084	1.010	253	3,031	44	0.044	0.528	132	1,584	0.48	1,447
160	Maple Building	4	CONF	CONFERENCE ROOM D	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	27,000	27,000	9	84	0.084	0.758	253	2,273	44	0.044	0.396	132	1,188	0.36	1,085
161	Maple Building	4	OFF	CENTER OFFICE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	12,000	12,000	4	84	0.084	0.337	253	1,010	44	0.044	0.176	132	528	0.16	482
163	Maple Building	4	OFF	OFFICE 1	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	6,000	6,000	2	84	0.084	0.168	253	505	44	0.044	0.088	132	264	0.08	241
164	Maple Building	4	OFF	OFFICE 2	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	12,000	12,000	4	84	0.084	0.337	253	1,010	44	0.044	0.176	132	528	0.16	482
165	Maple Building	4	OFF	OFFICE 3	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	12,000	12,000	4	84	0.084	0.337	253	1,010	44	0.044	0.176	132	528	0.16	482
166	Maple Building	4	OFF	OFFICE 4	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	6,000	6,000	2	84	0.084	0.168	253	505	44	0.044	0.088	132	264	0.08	241
167	Maple Building	4	UT	UTILITY- STORAGE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	12,000	12,000	4	84	0.084	0.337	253	1,010	44	0.044	0.176	132	528	0.16	482
168	Maple Building	4	BRK	LUNCH / BREAK ROOM	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	12,000	12,000	4	84	0.084	0.337	253	1,010	44	0.044	0.176	132	528	0.16	482
169	Maple Building	4	UT	UTILITY DATA	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	3,000	3,000	1	84	0.084	0.084	253	253	44	0.044	0.044	132	132	0.04	121
170	Maple Building	4	OFF	DSS OFFICE 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	12,000	12,000	4	61	0.061	0.244	183	732	44	0.044	0.176	132	528	0.07	204
171	Maple Building	4	CLASS	CLASSROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	18,000	18,000	6	61	0.061	0.366	183	1,098	44	0.044	0.264	132	792	0.10	306
172	Maple Building	4	OFF	OFFICE 3	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	3,000	3,000	1	61	0.061	0.061	183	183	44	0.044	0.044	132	132	0.02	51
173	Maple Building	4		MAIL ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	3,000	3,000	1	61	0.061	0.061	183	183	44	0.044	0.044	132	132	0.02	51
174	Maple Building	4	OFF	OFFICE CUBICLES	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	3,000	276,000	276,000	92	84	0.084	7.746	253	23,239	44	0.044	4.048	132	12,144	3.70	11,095
175	Maple Building	4	OFF	OFFICE OPEN AREA	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
176	Maple Building	4	OFF	CORRIDOR OPEN OFFICE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	6,205	353,685	353,685	57	84	0.084	4.799	522	29,780	44	0.044	2.508	273	15,562	2.29	14,218
177	Maple Building	4	CORR	CORRIDOR	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	6,205	37,230	37,230	6	84	0.084	0.505	522	3,135	44	0.044	0.264	273	1,638	0.24	1,497
178	Maple Building	4	CORR	CORRIDOR	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	17,520	17,520	2	40	0.040	0.080	350	701	2	0.002	0.004	18	35	0.08	666
179	Maple Building	4	COMM	LOBBY	13 Watt CFL	No Retrofit	6,205	0	0	0	15	0.015	0.000	93	0	15	0.015	0.000	93	0	0.00	0
180	Maple Building	4	UT	UTILITY STORAGE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start	1,040	1,040	1,040	1	72	0.072	0.072	75	75	44	0.044	0.044	46	46	0.03	29
181	Maple Building	4	RR	RESTROOM PRIVATE	2x2 2 Lamp U-Bend T12	Retrofit with a 2 lamp high performance low power instant start	6,205	6,205	6,205	1	83	0.083	0.083	512	512	28	0.028	0.028	174	174	0.05	338
183	Maple Building	4	RR	RESTROOM PRIVATE	2x2 2 Lamp U-Bend T12	Retrofit with a 2 lamp high performance low power instant start	6,205	6,205	6,205	1	83	0.083	0.083	512	512	28	0.028	0.028	174	174	0.05	338
185	Maple Building	4	UT	UTILITY ELECTRICAL	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start	6,205	12,410	12,410	2	72	0.072	0.144	448	896	44	0.044	0.088	273	546	0.06	350
187	Maple Building	4	UT	UTILITY PHONE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175
189	Maple Building	4	RR	RESTROOM WOMENS	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start	6,205	18,615	18,615	3	72	0.072	0.217	448	1,344	44	0.044	0.132	273	819	0.08	525
190	Maple Building	4	RR	RESTROOM MENS	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start	6,205	12,410	12,410	2	72	0.072	0.144	448	896	44	0.044	0.088	273	546	0.06	350
191	Maple Building	4	RR	RESTROOM MENS	1x2 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start	1,456	1,456	1,456	1	56	0.056	0.056	82	82	27	0.027	0.027	39	39	0.03	42
192	Maple Building	4	UT	UTILITY- CUSTODIAL	90 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	8,760	8,760	8,760	1	90	0.090	0.090	788	788	20	0.020	0.020	175	175	0.07	613
193	Maple Building	4	CORR	CORRIDOR	2x2 2 Lamp U-Bend T12	Retrofit with a 2 lamp high performance low power instant start	8,760	26,280	26,280	3	83	0.083	0.248	723	2,168	28	0.028	0.084	245	736	0.16	1,432
194	Maple Building	4	ELEV	ELEVATORS (2)	1x3 1 Lamp T12	Retrofit with a 1 lamp high performance low power instant start	8,760	35,040	35,040	4	38	0.038	0.152	333	1,332	22	0.022	0.088	193	771	0.06	561
195	Maple Building	4	ELEV	ELEVATORS (2)	1x4 1 Lamp T12	Retrofit with a 1 lamp high performance low power instant start	8,760	52,560	52,560	6	43	0.043	0.258	377	2,260	22	0.022	0.132	193	1,156	0.13	1,104
196	Maple Building	3	RR	RESTROOM MENS	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	6,205	6,205	6,205	1	61	0.061	0.061	379	379	44	0.044	0.044	273	273	0.02	105
197	Maple Building	3	RR	RESTROOM WOMENS	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	6,205	6,205	6,205	1	61	0.061	0.061	379	379	44	0.044	0.044	273	273	0.02	105
198	Maple Building	3	UT	UTILITY STORAGE	90 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	1,040	1,040	1,040	1	90	0.090	0.090	94	94	20	0.020	0.020	21	21	0.07	73
199	Maple Building	3	CORR	CORRIDOR	2x2 2 Lamp U-Bend T12	Retrofit with a 2 lamp high performance low power instant start	6,205	18,615	18,615	3	83	0.083	0.248	512	1,536	28	0.028	0.084	174	521	0.16	1,015
200	Maple Building	3	CORR	CORRIDOR	13 Watt CFL	No Retrofit	6,205	0	0	0	15	0.015	0.000	93	0	15	0.015	0.000	93	0	0.00	0
201	Maple Building	3	CORR	CORRIDOR	2x2 2 Lamp U-Bend T12	Install a new 2x2 recessed prismatic fixture, 2 lamp high perform	6,205	37,230	37,230	6	83	0.083	0.495	512	3,071	28	0.028	0.168	174	1,042	0.33	2,029
202	Maple Building	3	CORR	CORRIDOR	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start	6,205	6,205	6,205	1	61	0.061	0.061	379	379	44	0.044	0.044	273	273	0.02	105

Lighting As-Built Detail

Location Data							Existing Measure										Proposed Measure					Total	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings	
203	Maple Building	3	CORR	CORRIDOR	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	17,520	17,520	2	40	0.040	0.080	350	701	2	0.002	0.004	18	35	0.08	666	
204	Maple Building	3	COMM	WAITING AREA SOCIAL SECURITY	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	3,000	30,000	30,000	10	61	0.061	0.610	183	1,830	44	0.044	0.440	132	1,320	0.17	510	
205	Maple Building	3	COMM	WAITING AREA SOCIAL SECURITY	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
206	Maple Building	3	COMM	WAITING AREA SOCIAL SECURITY	13 Watt CFL	No Retrofit	3,000	0	0	0	15	0.015	0.000	45	0	15	0.015	0.000	45	0	0.00	0	
207	Maple Building	3	OFF	OFFICE OPEN AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	3,000	81,000	81,000	27	61	0.061	1.647	183	4,941	44	0.044	1.188	132	3,564	0.46	1,377	
208	Maple Building	3	OFF	OFFICE OPEN AREA	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
209	Maple Building	3	OFF	OFFICE OPEN AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	3,000	6,000	6,000	2	61	0.061	0.122	183	366	44	0.044	0.088	132	264	0.03	102	
211	Maple Building	3	OFF	OFFICE OPEN AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	3,000	0	0	0	61	0.061	0.000	183	0	44	0.044	0.000	132	0	0.00	0	
211.B1	Maple Building	3	OFF	OFFICE OPEN AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	3,000	3,000	3,000	1	61	0.061	0.061	183	183	44	0.044	0.044	132	132	0.02	51	
211.B2	Maple Building	3	OFF	OFFICE OPEN AREA	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start electronic ballast	3,000	3,000	3,000	1	62	0.062	0.062	186	186	40	0.040	0.040	120	120	0.02	66	
213	Maple Building	3	OFF	OFFICE RECEPTION AREA	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start electronic ballast	3,000	12,000	12,000	4	62	0.062	0.248	186	745	40	0.040	0.160	120	480	0.09	265	
214	Maple Building	3	OFF	OFFICE RECEPTION AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	3,000	12,000	12,000	4	61	0.061	0.244	183	732	44	0.044	0.176	132	528	0.07	204	
215	Maple Building	3	OFF	OFFICE OPEN AREA	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start electronic ballast	3,000	12,000	12,000	4	62	0.062	0.248	186	745	40	0.040	0.160	120	480	0.09	265	
216	Maple Building	3	OFF	OFFICE OPEN AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	3,000	39,000	39,000	13	61	0.061	0.793	183	2,379	44	0.044	0.572	132	1,716	0.22	663	
217	Maple Building	3	OFF	OFFICE OPEN AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	5,000	130,000	130,000	26	61	0.061	1.586	305	7,930	44	0.044	1.144	220	5,720	0.44	2,210	
217.B1	Maple Building			OFFICE OPEN AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast		0	0	4	61	0.061	0.244	0	0	44	0.044	0.176	0	0	0.07	0	
217.B2	Maple Building			OFFICE OPEN AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast		0	0	6	61	0.061	0.366	0	0	44	0.044	0.264	0	0	0.10	0	
218	Maple Building			OFFICE OPEN AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast		0	0	4	61	0.061	0.244	0	0	44	0.044	0.176	0	0	0.07	0	
218	Maple Building	3	OFF	OFFICE OPEN AREA	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
219	Maple Building	3	OFF	OFFICE OPEN AREA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	155,125	155,125	25	61	0.061	1.525	379	9,463	44	0.044	1.100	273	6,826	0.43	2,637	
220	Maple Building	3	RR	RESTROOM MENS	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	12,410	12,410	2	61	0.061	0.122	379	757	44	0.044	0.088	273	546	0.03	211	
221	Maple Building	3	RR	RESTROOM WOMENS	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	18,615	18,615	3	61	0.061	0.183	379	1,136	44	0.044	0.132	273	819	0.05	316	
222	Maple Building	3	BRK	BREAK ROOM	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	5,000	40,000	40,000	8	61	0.061	0.488	305	2,440	44	0.044	0.352	220	1,760	0.14	680	
223	Maple Building	3	BRK	BREAK ROOM	Snack Vending Machine	No Retrofit	8,760	0	0	0	427	0.427	0.000	3,741	0	0	0.000	0.000	0	0	0.00	0	
225	Maple Building	3	BRK	BREAK ROOM	Soda Vending Machine	No Retrofit	8,760	0	0	0	427	0.427	0.000	3,741	0	427	0.427	0.000	3,741	0	0.00	0	
227	Maple Building	3	UT	UTILITY ELECTRICAL	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175	
229	Maple Building	3	UT	UTILITY DATA	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175	
231	Maple Building	2	COMM	FOYER	13 Watt CFL	No Retrofit	6,205	0	0	0	15	0.015	0.000	93	0	15	0.015	0.000	93	0	0.00	0	
232	Maple Building	2	RR	RESTROOM MENS	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	12,410	12,410	2	61	0.061	0.122	379	757	44	0.044	0.088	273	546	0.03	211	
233	Maple Building	2	RR	RESTROOM MENS	1x2 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	6,205	6,205	1	56	0.056	0.056	347	347	27	0.027	0.027	168	168	0.03	180	
235	Maple Building	2	RR	RESTROOM WOMENS	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	18,615	18,615	3	61	0.061	0.183	379	1,136	44	0.044	0.132	273	819	0.05	316	
237	Maple Building	2	CORR	CORRIDOR	2x2 2 Lamp U-Bend T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	18,615	18,615	3	83	0.083	0.248	512	1,536	28	0.028	0.084	174	521	0.16	1,015	
238	Maple Building	2	UT	UTILITY STORAGE	90 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	6,205	6,205	6,205	1	90	0.090	0.090	558	558	20	0.020	0.020	124	124	0.07	434	
240	Maple Building	2	CORR	CORRIDOR	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	26,280	26,280	3	40	0.040	0.120	350	1,051	2	0.002	0.006	18	53	0.11	999	
241	Maple Building	2	CORR	CORRIDOR	2x2 2 Lamp U-Bend T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	43,435	43,435	7	83	0.083	0.578	512	3,583	28	0.028	0.196	174	1,216	0.38	2,367	
242	Maple Building	2	CORR	CORRIDOR	2x4 3 Lamp T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	18,615	18,615	3	109	0.109	0.327	676	2,029	44	0.044	0.132	273	819	0.20	1,210	
243	Maple Building	2	UT	UTILITY ELECTRICAL	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	12,410	12,410	2	72	0.072	0.144	448	896	44	0.044	0.088	273	546	0.06	350	
245	Maple Building	2	CORR	CORRIDOR	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
246	Maple Building	2	UT	UTILITY PHONE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175	
248	Maple Building	2	OFF	OFFICE VACANT OPEN AREA	2x4 3 Lamp T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	1,040	11,440	11,440	11	109	0.109	1.199	113	1,247	44	0.044	0.484	46	503	0.72	744	
250	Maple Building	2	OFF	OFFICE VACANT OPEN AREA	2x20 Watt Inc	Install a new LED battery backup exit sign	1,040	2,080	2,080	2	40	0.040	0.080	42	83	2	0.002	0.004	2	4	0.08	79	
283	Maple Building	2	OFF	VACANT AREA OPEN OFFICE 1	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	3,000	12,000	12,000	4	160	0.160	0.640	480	1,920	44	0.044	0.176	132	528	0.46	1,392	
283.B1	Maple Building	2	OFF	VACANT AREA OPEN OFFICE 1	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	3,000	33,000	33,000	11	160	0.160	1.760	480	5,280	44	0.044	0.484	132	1,452	1.28	3,828	
285	Maple Building	2	OFF	VACANT AREA OPEN OFFICE 2	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start electronic ballast	3,000	12,000	12,000	4	160	0.160	0.640	480	1,920	44	0.044	0.176	132	528	0.46	1,392	

Lighting As-Built Detail

Location Data							Existing Measure										Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings	
287	Maple Building	2	OFF	VACANT AREA OPEN OFFICE 3	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	160	0.160	0.160	480	480	44	0.044	0.044	132	132	0.12	348	
289	Maple Building	2	OFF	VACANT AREA OPEN OFFICE 4	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	160	0.160	0.160	480	480	44	0.044	0.044	132	132	0.12	348	
291	Maple Building	2	OFF	VACANT AREA OPEN OFFICE 5	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	160	0.160	0.160	480	480	44	0.044	0.044	132	132	0.12	348	
293	Maple Building	2	OFF	VACANT AREA OPEN OFFICE 6	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	12,000	12,000	4	160	0.160	0.640	480	1,920	44	0.044	0.176	132	528	0.46	1,392	
295	Maple Building	2	OFF	Court Room VACANT AREA OPEN OFFICE 7	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	24,000	24,000	8	160	0.160	1.280	480	3,840	44	0.044	0.352	132	1,056	0.93	2,784	
297	Maple Building	2	OFF	Center VACANT AREA OPEN OFFICE 8	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	6,000	6,000	2	160	0.160	0.320	480	960	44	0.044	0.088	132	264	0.23	696	
298	Maple Building	2	COMM	Center VACANT AREA OPEN OFFICE 9	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	36,000	36,000	12	160	0.160	1.920	480	5,760	44	0.044	0.528	132	1,584	1.39	4,176	
299	Maple Building	2	COMM	COLLEGE OPEN AREA	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	36,000	36,000	12	62	0.062	0.745	186	2,236	40	0.040	0.480	120	1,440	0.27	796	
299 . B1	Maple Building	2	COMM	COLLEGE OPEN AREA	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	63,000	63,000	21	62	0.062	1.304	186	3,912	40	0.040	0.840	120	2,520	0.46	1,392	
299	Maple Building	2	OFF	OFFICE 9	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	160	0.160	0.160	480	480	44	0.044	0.044	132	132	0.12	348	
251	Maple Building	2	OFF	OFFICE OPEN AREA	2x2 2 Lamp U-Bend T12 2 Watt LED Exit Sign, Battery Backup	Install a new 2x2 recessed prismatic fixture, 3 lamp high perform	3,000	42,000	42,000	14	83	0.083	1.155	248	3,465	40	0.040	0.560	120	1,680	0.60	1,785	
252	Maple Building	2	OFF	OFFICE OPEN AREA	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
253	Maple Building	2	OFF	OFFICE OPEN AREA	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
254	Maple Building	2	OFF	OFFICES COPPOLA ASSOC.	2x4 3 Lamp T12 2 Watt LED Exit Sign, Battery Backup	Retrofit with a 2 lamp high performance low power instant start e	3,000	42,000	42,000	14	109	0.109	1.526	327	4,578	44	0.044	0.616	132	1,848	0.91	2,730	
255	Maple Building	2	OFF	OFFICES COPPOLA ASSOC.	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
256	Maple Building	2	CONF	CONFERENCE ROOM-COPPOLA	2x4 3 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,560	3,120	3,120	2	109	0.109	0.218	170	340	44	0.044	0.088	69	137	0.13	203	
258	Maple Building	2	OFF	OFFICE- COPPOLA	2x4 3 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	6,000	6,000	2	109	0.109	0.218	327	654	44	0.044	0.088	132	264	0.13	390	
260	Maple Building	2	OFF	OFFICE- COPPOLA	2x4 3 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	6,000	6,000	2	109	0.109	0.218	327	654	44	0.044	0.088	132	264	0.13	390	
262	Maple Building	2	UT	UTILITY STORAGE-COPPOLA	2x4 3 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	109	0.109	0.109	676	676	44	0.044	0.044	273	273	0.07	403	
264	Maple Building	2	UT	UTILITY STORAGE-COPPOLA	2x4 3 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	8,320	8,320	8	109	0.109	0.872	113	907	44	0.044	0.352	46	366	0.52	541	
265	Maple Building	2	COMM	RECEPTION- COPPOLA	2x4 3 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	2,080	2,080	2	109	0.109	0.218	113	227	44	0.044	0.088	46	92	0.13	135	
266	Maple Building	2	COMM	OPEN AREA- COPPOLA	2x2 2 Lamp U-Bend T12	Retrofit with a 3 lamp high performance low power instant start e	3,000	18,000	18,000	6	83	0.083	0.495	248	1,485	40	0.040	0.240	120	720	0.26	765	
267	Maple Building	2	COMM	OPEN AREA- COPPOLA	2x4 3 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	4,160	4,160	4	109	0.109	0.436	113	453	44	0.044	0.176	46	183	0.26	270	
269	Maple Building	2		FOYER-E.A.ENGINEERING	2x4 3 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	12,410	12,410	2	109	0.109	0.218	676	1,353	44	0.044	0.088	273	546	0.13	807	
270	Maple Building	2	OFF	OFFICE OPEN AREA-E.A. ENGINEERING	2x4 4 Lamp T12	Retrofit with a 4 lamp high performance low power instant start e	3,000	54,000	27,000	18	160	0.160	2.880	480	8,640	86	0.086	0.774	258	2,322	2.11	6,318	
271	Maple Building	2	OFF	OFFICE OPEN AREA-E.A. ENGINEERING	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	12,000	12,000	4	160	0.160	0.640	480	1,920	44	0.044	0.176	132	528	0.46	1,392	
272	Maple Building	2	OFF	OFFICE OPEN AREA-E.A. ENGINEERING	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	8,760	8,760	1	40	0.040	0.040	350	350	2	0.002	0.002	18	18	0.04	333	
273	Maple Building	2	CONF	CONFERENCE ROOM-E.A.ENGINEERING	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	160	0.160	0.160	480	480	44	0.044	0.044	132	132	0.12	348	
274	Maple Building	2	KIT	KITCHEN- E.A. ENGINEERING	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	5,000	5,000	5,000	1	160	0.160	0.160	800	800	44	0.044	0.044	220	220	0.12	580	
275	Maple Building	2	OFF	OFFICE SOCIAL SECURITY	2x2 2 Lamp U-Bend T8 2 Watt LED Exit Sign, Battery Backup	Install a new 2x2 recessed prismatic fixture, 3 lamp high perform	3,000	54,000	54,000	18	62	0.062	1.118	186	3,353	40	0.040	0.720	120	2,160	0.40	1,193	
276	Maple Building	2	OFF	OFFICE SOCIAL SECURITY	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
277	Maple Building	2	OFF	OFFICE TRAINING	2x2 2 Lamp U-Bend T8	Install a new 2x2 recessed prismatic fixture, 3 lamp high perform	3,000	18,000	18,000	6	62	0.062	0.373	186	1,118	40	0.040	0.240	120	720	0.13	398	
279	Maple Building	2	OFF	OFFICE DCR ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,000	6,000	6,000	2	61	0.061	0.122	183	366	44	0.044	0.088	132	264	0.03	102	
280	Maple Building	2	OFF	OFFICE DCR ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	61	0.061	0.061	183	183	44	0.044	0.044	132	132	0.02	51	
282	Maple Building	2		SOGRAL SEC COM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	9,000	9,000	3	62	0.062	0.186	186	559	40	0.040	0.120	120	360	0.07	199	
300	Maple Building	2	CONF	COLLEGE CONFERENCE ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	18,000	18,000	6	62	0.062	0.373	186	1,118	40	0.040	0.240	120	720	0.13	398	
302	Maple Building	2	BRK	COLLEGE BREAK ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	6,000	6,000	2	62	0.062	0.124	186	373	40	0.040	0.080	120	240	0.04	133	
304	Maple Building	2		COLLEGE COPY ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	18,000	18,000	6	62	0.062	0.373	186	1,118	40	0.040	0.240	120	720	0.13	398	
306	Maple Building	2	UT	UTILITY FILE ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	1,040	2,080	2,080	2	62	0.062	0.124	65	129	40	0.040	0.080	42	83	0.04	46	
307	Maple Building	2	OFF	COLLEGE OFFICE 207	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	12,000	12,000	4	62	0.062	0.248	186	745	40	0.040	0.160	120	480	0.09	265	
309	Maple Building	2	OFF	COLLEGE OFFICE 227	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	6,000	6,000	2	62	0.062	0.124	186	373	40	0.040	0.080	120	240	0.04	133	
311	Maple Building	2	OFF	COLLEGE OFFICE 208	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	12,000	12,000	4	62	0.062	0.248	186	745	40	0.040	0.160	120	480	0.09	265	
313	Maple Building	2	OFF	COLLEGE OFFICE 209	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	12,000	12,000	4	62	0.062	0.248	186	745	40	0.040	0.160	120	480	0.09	265	
315	Maple Building	2	CONF	COLLEGE CONFERENCE ROOM 210	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	27,000	27,000	9	62	0.062	0.559	186	1,677	40	0.040	0.360	120	1,080	0.20	597	

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
317	Maple Building	2	OFF	COLLEGE OFFICE 211	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	12,000	12,000	4	62	0.062	0.248	186	745	40	0.040	0.160	120	480	0.09	265
319	Maple Building	2	OFF	COLLEGE OFFICE 212	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	12,000	12,000	4	62	0.062	0.248	186	745	40	0.040	0.160	120	480	0.09	265
321	Maple Building	2	OFF	COLLEGE OFFICE 213	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	9,000	9,000	3	62	0.062	0.186	186	559	40	0.040	0.120	120	360	0.07	199
323	Maple Building	2	OFF	COLLEGE OFFICE 214	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	6,000	6,000	2	62	0.062	0.124	186	373	40	0.040	0.080	120	240	0.04	133
325	Maple Building	2	OFF	COLLEGE OFFICE 215	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	6,000	6,000	2	62	0.062	0.124	186	373	40	0.040	0.080	120	240	0.04	133
327	Maple Building	2	OFF	COLLEGE OFFICE 216	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	9,000	9,000	3	62	0.062	0.186	186	559	40	0.040	0.120	120	360	0.07	199
329	Maple Building	2	OFF	COLLEGE OFFICE 217	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	6,000	6,000	2	62	0.062	0.124	186	373	40	0.040	0.080	120	240	0.04	133
331	Maple Building	2	OFF	COLLEGE OFFICE 218	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	6,000	6,000	2	62	0.062	0.124	186	373	40	0.040	0.080	120	240	0.04	133
333	Maple Building	2	OFF	COLLEGE OFFICE 219	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	6,000	6,000	2	62	0.062	0.124	186	373	40	0.040	0.080	120	240	0.04	133
335	Maple Building	2	OFF	COLLEGE OFFICE 220	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	6,000	6,000	2	62	0.062	0.124	186	373	40	0.040	0.080	120	240	0.04	133
337	Maple Building	2	OFF	COLLEGE OFFICE 221	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,000	6,000	6,000	2	62	0.062	0.124	186	373	40	0.040	0.080	120	240	0.04	133
339	Maple Building	2	STRG	COLLEGE STORAGE	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	62	0.062	0.062	186	186	28	0.028	0.028	84	84	0.03	102
341	Maple Building	2		COLLEGE SERVER 223	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	62	0.062	0.124	544	1,088	28	0.028	0.056	245	491	0.07	597
343	Maple Building	2	STRG	COLLEGE STORAGE 224	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	62	0.062	0.062	186	186	28	0.028	0.028	84	84	0.03	102
345	Maple Building	2	COMM	COLLEGE OPEN AREA	2x4 4 Lamp T12	Install a new 2x4 prismatic recessed fixture, 2 lamp high perform	3,000	126,000	126,000	42	160	0.160	6.720	480	20,160	45	0.045	1.890	135	5,670	4.83	14,490
346	Maple Building	2	COMM	COLLEGE OPEN AREA	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
347	Maple Building	1	COMM	LOBBY	13 Watt CFL	No Retrofit	6,205	0	0	0	15	0.015	0.000	93	0	15	0.015	0.000	93	0	0.00	0
348	Maple Building	1	COMM	LOBBY	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	0	0	0	40	0.040	0.000	350	0	2	0.002	0.000	18	0	0.00	0
349	Maple Building	1	OFF	OFFICE	13 Watt CFL	No Retrofit	3,000	0	0	0	15	0.015	0.000	45	0	15	0.015	0.000	45	0	0.00	0
350	Maple Building	1	UT	UTILITY CLEANING	90 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	1,040	1,040	1,040	1	90	0.090	0.090	94	94	20	0.020	0.020	21	21	0.07	73
351	Maple Building	1	UT	UTILITY ELECTRICAL	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	2,080	2,080	2	72	0.072	0.144	75	150	44	0.044	0.088	46	92	0.06	59
353	Maple Building	1	UT	UTILITY DATA	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	1,040	1,040	1	72	0.072	0.072	75	75	44	0.044	0.044	46	46	0.03	29
355	Maple Building	1	CORR	CORRIDOR ENTRANCE	13 Watt CFL	No Retrofit	6,205	0	0	0	15	0.015	0.000	93	0	15	0.015	0.000	93	0	0.00	0
356	Maple Building	1	CORR	CORRIDOR	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	8,760	8,760	1	40	0.040	0.040	350	350	2	0.002	0.002	18	18	0.04	333
357	Maple Building	1	BRK	BREAK ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	5,000	50,000	50,000	10	72	0.072	0.722	361	3,610	44	0.044	0.440	220	2,200	0.28	1,410
359	Maple Building	1	BRK	BREAK ROOM	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	8,760	8,760	1	40	0.040	0.040	350	350	2	0.002	0.002	18	18	0.04	333
360	Maple Building	1	RR	RESTROOM MENS	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175
362	Maple Building	1	RR	RESTROOM WOMENS	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175
364	Maple Building	1	OFF	OFFICE INFORMATION	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
366	Maple Building	1	OFF	OFFICE WIC	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	12,000	12,000	4	72	0.072	0.289	217	866	44	0.044	0.176	132	528	0.11	338
368	Maple Building	1	OFF	OFFICE QIC	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	6,000	6,000	2	72	0.072	0.144	217	433	44	0.044	0.088	132	264	0.06	169
370	Maple Building	1	OFF	OFFICE SOCIAL SERVICES	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
372	Maple Building	1	OFF	OFFICE HIV DEPT	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	30,000	30,000	10	72	0.072	0.722	217	2,166	44	0.044	0.440	132	1,320	0.28	846
374	Maple Building	1	OFF	OFFICE HIV DEPT	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	8,760	8,760	1	40	0.040	0.040	350	350	2	0.002	0.002	18	18	0.04	333
375	Maple Building	1	CONF	CONFERENCE ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,560	6,240	6,240	4	72	0.072	0.289	113	451	44	0.044	0.176	69	275	0.11	176
377	Maple Building	1	OFF	OFFICE 1	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	6,000	6,000	2	72	0.072	0.144	217	433	44	0.044	0.088	132	264	0.06	169
379	Maple Building	1	OFF	OFFICE 2	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
381	Maple Building	1	OFF	OFFICE 3	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
383	Maple Building	1	OFF	OFFICE 4	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
385	Maple Building	1	OFF	OFFICE 5	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
387	Maple Building	1	OFF	OFFICE 6	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	6,000	6,000	2	72	0.072	0.144	217	433	44	0.044	0.088	132	264	0.06	169
389	Maple Building	1		LABORATORY	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	12,000	12,000	4	72	0.072	0.289	217	866	44	0.044	0.176	132	528	0.11	338
391	Maple Building	1	COMM	OB / GYN OPEN AREA	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	18,000	18,000	6	72	0.072	0.433	217	1,300	44	0.044	0.264	132	792	0.17	508
392	Maple Building	1	COMM	OB / GYN OPEN AREA	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	17,520	17,520	2	40	0.040	0.080	350	701	2	0.002	0.004	18	35	0.08	666

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
393	Maple Building	1	EXAM	EXAM ROOM 1	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
395	Maple Building	1	EXAM	EXAM ROOM 2	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
397	Maple Building	1	EXAM	EXAM ROOM 3	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
399	Maple Building	1	EXAM	EXAM ROOM 4	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
401	Maple Building	1	EXAM	EXAM ROOM 5	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
403	Maple Building	1	OFF	OFFICE	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
405	Maple Building	1	RR	RESTROOM PRIVATE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175
407	Maple Building	1	OFF	OFFICE	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
409	Maple Building	1		NURSES STATION	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
411	Maple Building	1	OFF	OFFICE NUTRITIONIST	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
413	Maple Building	1	RR	HALLWAY RESTROOM MENS	1x4 2 Lamp T12	Retrofit with a 4 lamp high performance low power instant start e	6,205	12,410	6,205	2	72	0.072	0.144	448	896	86	0.086	0.086	534	534	0.06	362
414	Maple Building	1	RR	RESTROOM MENS	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175
415	Maple Building	1	RR	RESTROOM WOMENS	1x4 2 Lamp T12	Retrofit with a 4 lamp high performance low power instant start e	6,205	12,410	6,205	2	72	0.072	0.144	448	896	86	0.086	0.086	534	534	0.06	362
416	Maple Building	1	RR	RESTROOM WOMENS	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175
417	Maple Building	1	CORR	CORRIDOR	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	12,410	12,410	2	72	0.072	0.144	448	896	44	0.044	0.088	273	546	0.06	350
418	Maple Building	1	CORR	CORRIDOR	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	12,410	12,410	2	72	0.072	0.144	448	896	44	0.044	0.088	273	546	0.06	350
419	Maple Building	1	CORR	CORRIDOR	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	8,760	8,760	1	40	0.040	0.040	350	350	2	0.002	0.002	18	18	0.04	333
420	Maple Building	1	OFF	OFFICE PEDIATRICS OPEN AREA	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	27,000	27,000	9	72	0.072	0.650	217	1,949	44	0.044	0.396	132	1,188	0.25	761
421	Maple Building	1	OFF	OFFICE PEDIATRICS OPEN AREA	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	17,520	17,520	2	40	0.040	0.080	350	701	2	0.002	0.004	18	35	0.08	666
422	Maple Building	1	OFF	OFFICE	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
424	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
426	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
428	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
430	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
432	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
434	Maple Building	1	RR	RESTROOM PRIVATE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175
436	Maple Building	1		NURSES STATION	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
438	Maple Building	1		TRIAGE	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
440	Maple Building	1	OFF	OFFICE	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
442	Maple Building	1	STRG	MEDICAL SUPPLY	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	18,000	18,000	6	72	0.072	0.433	217	1,300	44	0.044	0.264	132	792	0.17	508
444	Maple Building	1	OFF	OFFICE CALL CENTER	90 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	3,000	9,000	9,000	3	90	0.090	0.270	270	810	20	0.020	0.060	60	180	0.21	630
445	Maple Building	1	OFF	OFFICE CALL CENTER	1x4 2 Lamp T12	Retrofit with a 4 lamp high performance low power instant start e	3,000	6,000	3,000	2	72	0.072	0.144	217	433	86	0.086	0.086	258	258	0.06	175
447	Maple Building	1		MEDICAL DEPARTMENT	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	18,000	18,000	6	72	0.072	0.433	217	1,300	44	0.044	0.264	132	792	0.17	508
448	Maple Building	1		MEDICAL DEPARTMENT	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	17,520	17,520	2	40	0.040	0.080	350	701	2	0.002	0.004	18	35	0.08	666
449	Maple Building	1	RR	RESTROOM PRIVATE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175
451	Maple Building	1		EYE WASH STATION	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175
453	Maple Building	1	UT	UTILITY STORAGE	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175
455	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
457	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
459	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
461	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
463	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
465	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
467	Maple Building	1	UT	UTILITY CUSTODIAL	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	72	0.072	0.072	448	448	44	0.044	0.044	273	273	0.03	175

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
469	Maple Building	1		PHARMACY	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	2,250	20,250	20,250	9	160	0.160	1.440	360	3,240	44	0.044	0.396	99	891	1.04	2,349
471	Maple Building	1	UT	UTILITY CLEANING	1x8 2 8'Lamps T12	Install a new 8' standard wrap fixture, 2 lamp low power instant s	6,205	6,205	6,205	1	123	0.123	0.123	763	763	44	0.044	0.044	273	273	0.08	490
473	Maple Building	1	OFF	OFFICE #1	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
475	Maple Building	1	OFF	OFFICE #2	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
477	Maple Building	1	OFF	OFFICE SOCIAL WORK DEPT	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
479	Maple Building	1		MEDICAL RECORDS	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	12,000	12,000	4	160	0.160	0.640	480	1,920	44	0.044	0.176	132	528	0.46	1,392
480	Maple Building	1		MEDICAL RECORDS	60 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	3,000	84,000	84,000	28	60	0.060	1.680	180	5,040	20	0.020	0.560	60	1,680	1.12	3,360
481	Maple Building	1		MEDICAL RECORDS	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
483	Maple Building	1	OFF	OFFICE RECEPTION AREA	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	6,000	6,000	2	72	0.072	0.144	217	433	44	0.044	0.088	132	264	0.06	169
484	Maple Building	1	OFF	OFFICE	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
486	Maple Building	1	OFF	OFFICE EYE WASH	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	6,000	6,000	2	72	0.072	0.144	217	433	44	0.044	0.088	132	264	0.06	169
488	Maple Building	1		NURSES STATION	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
489	Maple Building	1	OFF	OFFICE	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
491	Maple Building	1	UT	UTILITY DATA	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	12,410	12,410	2	72	0.072	0.144	448	896	44	0.044	0.088	273	546	0.06	350
493	Maple Building	1	EXAM	EXAM ROOM	1x4 2 Lamp T12	Retrofit with a 4 lamp high performance low power instant start e	3,000	12,000	6,000	4	72	0.072	0.289	217	866	86	0.086	0.172	258	516	0.12	350
495	Maple Building	1	EXAM	EXAM ROOM	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	6,000	6,000	2	72	0.072	0.144	217	433	44	0.044	0.088	132	264	0.06	169
497	Maple Building	1	EXAM	EXAM ROOM	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,000	3,000	3,000	1	72	0.072	0.072	217	217	44	0.044	0.044	132	132	0.03	85
498	Maple Building	1	EXAM	EXAM ROOM	2x2 2 Lamp U-Bend T12	Retrofit with a 3 lamp high performance low power instant start e	3,000	3,000	3,000	1	83	0.083	0.083	248	248	40	0.040	0.040	120	120	0.04	128
500	Maple Building	1	CORR	CORRIDOR	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	55,845	55,845	9	72	0.072	0.650	448	4,032	44	0.044	0.396	273	2,457	0.25	1,575
501	Maple Building	1	CORR	CORRIDOR	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	8,760	8,760	1	40	0.040	0.040	350	350	2	0.002	0.002	18	18	0.04	333
502	Maple Building	1	CORR	CORRIDOR	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
503	Maple Building	1	CORR	CORRIDOR	2x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	105,485	105,485	17	72	0.072	1.227	448	7,616	44	0.044	0.748	273	4,641	0.48	2,975
504	Maple Building	1	CORR	CORRIDOR	2 Watt LED Exit Sign, Battery Backup	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
505	Maple Building	1	CORR	CORRIDOR	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	96,360	96,360	11	40	0.040	0.440	350	3,854	2	0.002	0.022	18	193	0.42	3,662
506	Maple Building	1	CORR	CORRIDOR COVE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	6,205	62,050	62,050	10	72	0.072	0.722	448	4,480	44	0.044	0.440	273	2,730	0.28	1,750
507	Maple Building	1	CORR	CORRIDOR	13 Watt CFL	No Retrofit	6,205	0	0	0	15	0.015	0.000	93	0	15	0.015	0.000	93	0	0.00	0
508	Maple Building	G		GARAGE LEVEL 1	1x4 3 Lamp T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	61,320	61,320	14	84	0.084	1.179	369	5,163	62	0.062	0.868	272	3,802	0.31	1,361
508.B1	Maple Building	G		GARAGE LEVEL 1	1x4 3 Lamp T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	21,900	21,900	5	84	0.084	0.421	369	1,844	62	0.062	0.310	272	1,358	0.11	486
509	Maple Building	G		GARAGE LEVEL 1	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	26,280	26,280	3	40	0.040	0.120	350	1,051	2	0.002	0.006	18	53	0.11	999
510	Maple Building	G		GARAGE LEVEL 2	175 Watt Mercury Vapor	Install a new wall pack fixture, with (1) 28 watt compact fluoresce	4,380	21,900	21,900	5	201	0.201	1.005	880	4,402	28	0.028	0.140	123	613	0.87	3,789
511	Maple Building	G		GARAGE LEVEL 2	175 Watt Mercury Vapor	Install a new 4' recessed prismatic fixture, 2 lamp normal power	4,380	43,800	43,800	10	201	0.201	2.010	880	8,804	49	0.049	0.490	215	2,146	1.52	6,658
511.B1	Maple Building	G		GARAGE LEVEL 2	175 Watt Mercury Vapor	Install a new 4' recessed prismatic fixture, 2 lamp normal power	4,380	48,180	48,180	11	201	0.201	2.211	880	9,684	49	0.049	0.539	215	2,361	1.67	7,323
512	Maple Building	G		GARAGE LEVEL 2	175 Watt Mercury Vapor	Install a new 4' vapor tight fixture, 1 lamp low power instant start	4,380	78,840	78,840	18	201	0.201	3.618	880	15,847	62	0.062	1.116	272	4,888	2.50	10,959
513	Maple Building	G		GARAGE LEVEL 2	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	17,520	17,520	2	40	0.040	0.080	350	701	2	0.002	0.004	18	35	0.08	666
514	Maple Building	G	UT	UTILITY ELECTRICAL	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	4,160	4,160	4	72	0.072	0.289	75	300	44	0.044	0.176	46	183	0.11	117
515	Maple Building	G	UT	UTILITY PHONE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	2,080	2,080	2	72	0.072	0.144	75	150	44	0.044	0.088	46	92	0.06	59
516	Maple Building	G	UT	UTILITY ELEVATOR	100 Watt Inc	Re-lamp with a new 23 watt compact fluorescent lamp.	1,040	1,040	1,040	1	100	0.100	0.100	104	104	23	0.023	0.023	24	24	0.08	80
517	Maple Building	G	COMM	ELEVATOR LOBBY P-2	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	62	0.062	0.062	272	272	28	0.028	0.028	123	123	0.03	149
518	Maple Building	G	COMM	ELEVATOR LOBBY P-1	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	13,140	13,140	3	62	0.062	0.186	272	816	28	0.028	0.084	123	368	0.10	448
519	Maple Building	G	UT	UTILITY FIRE PUMP	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	4,160	4,160	4	72	0.072	0.289	75	300	44	0.044	0.176	46	183	0.11	117
520	Maple Building	G	UT	UTILITY ELEVATOR	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	2,080	2,080	2	72	0.072	0.144	75	150	44	0.044	0.088	46	92	0.06	59
521	Maple Building	G		GUARD SHACK P-1	1x2 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	56	0.056	0.056	245	245	27	0.027	0.027	118	118	0.03	127
522	Maple Building	G	UT	UTILITY STORAGE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	3,120	3,120	3	72	0.072	0.217	75	225	44	0.044	0.132	46	137	0.08	88
524	Maple Building	EX T		FRONT CANOPY	100 Watt Metal Halide	Disconnect Existing System	4,380	74,460	74,460	17	130	0.130	2.210	569	9,680	0	0.000	0.000	0	0	2.21	9,680

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
525	Maple Building	EX T		FRONT WALL SCONCES	100 Watt Metal Halide	Install a new wall pack fixture, with (1) 28 watt compact fluoresce	4,380	56,940	56,940	13	130	0.130	1.690	569	7,402	28	0.028	0.364	123	1,594	1.33	5,808
526	Maple Building	EX T		PERIMETER FRONT WALLS	100 Watt Metal Halide	Install a new wall pack fixture, with (1) 28 watt compact fluoresce	4,380	26,280	26,280	6	130	0.130	0.780	569	3,416	28	0.028	0.168	123	736	0.61	2,681
527	Maple Building	EX T		COACH POLES	175 Watt Metal Halide	No Retrofit	4,380	39,420	39,420	9	200	0.200	1.800	876	7,884	205	0.205	1.845	898	8,081	0.00	0
528	Maple Building	SW	SW	STAIRWELLS 1	1x4 2 Lamp T12	Install a new 4' vanity fixture, 1 lamp low power instant start elect	7,280	123,760	123,760	17	72	0.072	1.227	526	8,935	22	0.022	0.374	160	2,723	0.85	6,213
529	Maple Building	SW	SW	STAIRWELLS (2)	2x20 Watt Inc	Install a new LED battery backup exit sign	8,760	17,520	17,520	2	40	0.040	0.080	350	701	2	0.002	0.004	18	35	0.08	666
	Maple Building Total												110.229	412,663			50.850		188,706	59.42	224,154	
2484	Orange County Correctional Facility	1		CORRIDOR E WING	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	61	0.061	0.366	534	3,206	44	0.044	0.264	385	2,313	0.10	894
2485	Orange County Correctional Facility	1		CORRIDOR E WING	2x15 Watt Inc	Install a new LED exit sign, Tamper Proof	8,760	26,280	26,280	3	30	0.030	0.090	263	788	2	0.002	0.006	18	53	0.08	736
2486	Orange County Correctional Facility	1		E WING ENTRY	2x15 Watt Inc	Install a new LED exit sign, Tamper Proof	8,760	17,520	17,520	2	30	0.030	0.060	263	526	2	0.002	0.004	18	35	0.06	491
2487	Orange County Correctional Facility	1		E WING ENTRY	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	72	0.072	0.072	632	632	44	0.044	0.044	385	385	0.03	247
2487	Orange County Correctional Facility	1		E WING ENTRY	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	72	0.072	0.072	632	632	41	0.041	0.041	359	359	0.03	273
2488	Orange County Correctional Facility	1		E WING CONNECTOR	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	72	0.072	0.000	632	0	44	0.044	0.000	385	0	0.00	0
2489	Orange County Correctional Facility	1		E WING SHOWER	1x2 1 Lamp T12	Retrofit with a 1 lamp high performance low power instant start e	2,184	13,104	13,104	6	29	0.029	0.174	63	380	15	0.015	0.090	33	197	0.08	183
2490	Orange County Correctional Facility	1		SHOWER	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,456	2,912	2,912	2	72	0.072	0.144	105	210	44	0.044	0.088	64	128	0.06	82
2490	Orange County Correctional Facility	1		E-1/DORM/SHOWER	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	1,456	4,368	4,368	3	109	0.109	0.327	159	476	62	0.062	0.186	90	271	0.14	205
2490	Orange County Correctional Facility	1		E-1/UTILITY CLOSET (2)	1x2 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	1,456	1,456	1,456	1	45	0.045	0.045	66	66	27	0.027	0.027	39	39	0.02	26
2491	Orange County Correctional Facility	1		UTILITY STORAGE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	1,040	1,040	1	72	0.072	0.072	75	75	44	0.044	0.044	46	46	0.03	29
2491	Orange County Correctional Facility	1		E1 / UTILITY STORAGE	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	1,040	1,040	1,040	1	109	0.109	0.109	113	113	62	0.062	0.062	64	64	0.05	49
2492	Orange County Correctional Facility	1		DORM	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	2,184	41,496	41,496	19	72	0.072	1.372	158	2,996	44	0.044	0.836	96	1,826	0.54	1,170
2492	Orange County Correctional Facility	1		DORM	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	72	0.072	0.072	158	158	44	0.044	0.044	96	96	0.03	62
2492	Orange County Correctional Facility	1		DORM	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	2,184	10,920	10,920	5	72	0.072	0.361	158	788	41	0.041	0.205	90	448	0.16	341
2493	Orange County Correctional Facility	1		DORM	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	8,760	70,080	70,080	8	72	0.072	0.578	632	5,060	41	0.041	0.328	359	2,873	0.25	2,186
2494	Orange County Correctional Facility	1		DORM	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	2,184	43,680	43,680	20	109	0.109	2.180	238	4,761	62	0.062	1.240	135	2,708	0.94	2,053
2495	Orange County Correctional Facility	1		DORM	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	8,760	35,040	35,040	4	109	0.109	0.436	955	3,819	62	0.062	0.248	543	2,172	0.19	1,647
2496	Orange County Correctional Facility	1		DORM	2x15 Watt Inc	Install a new LED exit sign, Tamper Proof	8,760	17,520	17,520	2	30	0.030	0.060	263	526	2	0.002	0.004	18	35	0.06	491
2497	Orange County Correctional Facility	1		CELLS (12)	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	2,184	26,208	26,208	12	72	0.072	0.866	158	1,892	44	0.044	0.528	96	1,153	0.34	739
2498	Orange County Correctional Facility	EX T		C1 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	85	0.085	0.170	745	1,489	0.74	6,482
2498	Orange County Correctional Facility	EX T		C1 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	35,040	35,040	4	455	0.455	1.820	3,986	15,943	0	0.000	0.000	0	0	1.82	15,943
2499	Orange County Correctional Facility	EX T		C2 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	85	0.085	0.170	745	1,489	0.74	6,482
2499	Orange County Correctional Facility	EX T		C2 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	0	0.000	0.000	0	0	1.37	11,957
2500	Orange County Correctional Facility	EX T		C3 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	85	0.085	0.170	745	1,489	0.74	6,482
2500	Orange County Correctional Facility	EX T		C3 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	0	0.000	0.000	0	0	1.37	11,957
2501	Orange County Correctional Facility	1		C VESTIBULE	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	29,120	29,120	4	62	0.062	0.248	452	1,808	28	0.028	0.112	204	815	0.14	993
2502	Orange County Correctional Facility	1		CORRIDOR	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	87,600	87,600	10	61	0.061	0.610	534	5,344	44	0.044	0.440	385	3,854	0.17	1,489
2503	Orange County Correctional Facility	1		C HOUSING CENTER	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	0	0	0	62	0.062	0.000	452	0	40	0.040	0.000	291	0	0.00	0
2504	Orange County Correctional Facility	1		C HOUSING CENTER	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	0	0	0	62	0.062	0.000	544	0	40	0.040	0.000	350	0	0.00	0
2505	Orange County Correctional Facility	1		CORRIDOR E2 WING	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	87,600	87,600	10	61	0.061	0.610	534	5,344	44	0.044	0.440	385	3,854	0.17	1,489
2505	Orange County Correctional Facility	1		CORRIDOR E2 WING	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2506	Orange County Correctional Facility	1		CORRIDOR E2 WING	2x15 Watt Inc	Install a new LED exit sign, Tamper Proof	8,760	26,280	26,280	3	30	0.030	0.090	263	788	2	0.002	0.006	18	53	0.08	736
2507	Orange County Correctional Facility	1		E2 DORM	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	2,184	61,152	61,152	28	109	0.109	3.052	238	6,666	62	0.062	1.736	135	3,791	1.32	2,874
2507	Orange County Correctional Facility	1		E2 DORM	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	2,184	2,184	2,184	1	109	0.109	0.109	238	238	62	0.062	0.062	135	135	0.05	103
2508	Orange County Correctional Facility	1		E2 DORM	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	2,184	15,288	15,288	7	109	0.109	0.763	238	1,666	62	0.062	0.434	135	948	0.33	719
2509	Orange County Correctional Facility	1		E2 DORM	2x15 Watt Inc	Install a new LED exit sign, Tamper Proof	8,760	17,520	17,520	2	30	0.030	0.060	263	526	2	0.002	0.004	18	35	0.06	491
2510	Orange County Correctional Facility	1		UTILITY E2 STORAGE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	1,040	1,040	1	72	0.072	0.072	75	75	44	0.044	0.044	46	46	0.03	29

Lighting As-Built Detail

Location Data							Existing Measure										Proposed Measure					Total	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings	
2511	Orange County Correctional Facility	1		E2 SHOWER AREA	1x2 1 Lamp T12	Retrofit with a 1 lamp high performance low power instant start e	2,184	15,288	15,288	7	29	0.029	0.203	63	443	15	0.015	0.105	33	229	0.10	214	
2512	Orange County Correctional Facility	1		E2 SHOWER AREA	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	2,548	7,644	7,644	3	72	0.072	0.217	184	552	44	0.044	0.132	112	336	0.08	216	
2513	Orange County Correctional Facility	1		E2 SHOWER AREA	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	72	0.072	0.144	632	1,265	41	0.041	0.082	359	718	0.06	547	
2514	Orange County Correctional Facility	1		RESTROOM E2 OFFICER	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	8,760	17,520	17,520	2	109	0.109	0.218	955	1,910	62	0.062	0.124	543	1,086	0.09	823	
2515	Orange County Correctional Facility	1		RESTROOM E2 OFFICER	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	72	0.072	0.072	526	526	44	0.044	0.044	320	320	0.03	205	
2516	Orange County Correctional Facility	1		E3 DORM	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	2,184	61,152	61,152	28	109	0.109	3.052	238	6,666	62	0.062	1.736	135	3,791	1.32	2,874	
2516	Orange County Correctional Facility	1		E3 DORM	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	2,184	2,184	2,184	1	109	0.109	0.109	238	238	62	0.062	0.062	135	135	0.05	103	
2517	Orange County Correctional Facility	1		E3 DORM	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	2,184	15,288	15,288	7	72	0.072	0.505	158	1,104	41	0.041	0.287	90	627	0.22	477	
2518	Orange County Correctional Facility	1		E3 DORM	2x15 Watt Inc	Install a new LED exit sign, Tamper Proof	8,760	17,520	17,520	2	30	0.030	0.060	263	526	2	0.002	0.004	18	35	0.06	491	
2519	Orange County Correctional Facility	1		UTILITY E3 STORAGE	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	1,040	1,040	1,040	1	72	0.072	0.072	75	75	44	0.044	0.044	46	46	0.03	29	
2520	Orange County Correctional Facility	1		E3 SHOWER AREA	1x2 1 Lamp T12	Retrofit with a 1 lamp high performance low power instant start e	2,184	15,288	15,288	7	29	0.029	0.203	63	443	15	0.015	0.105	33	229	0.10	214	
2521	Orange County Correctional Facility	1		E3 SHOWER AREA	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	2,548	7,644	7,644	3	109	0.109	0.327	278	833	62	0.062	0.186	158	474	0.14	359	
2522	Orange County Correctional Facility	1		E3 SHOWER AREA	1x4 3 Lamp T12	Retrofit with a 3 lamp high performance low power instant start e	8,760	17,520	17,520	2	109	0.109	0.218	955	1,910	62	0.062	0.124	543	1,086	0.09	823	
2523	Orange County Correctional Facility	1		RESTROOM E3 OFFICER	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	72	0.072	0.072	632	632	44	0.044	0.044	385	385	0.03	247	
2523	Orange County Correctional Facility	1		RESTROOM E3 OFFICER	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	72	0.072	0.072	632	632	44	0.044	0.044	385	385	0.03	247	
2524	Orange County Correctional Facility	1		RESTROOM E3 OFFICER	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	72	0.072	0.072	526	526	44	0.044	0.044	320	320	0.03	205	
2525	Orange County Correctional Facility	EX T		E2 & E3 YARDS	400 Watt Metal Halide	Retrofit with a 320 watt metal halide pulse start lighting system.	4,380	43,800	43,800	10	455	0.455	4.550	1,993	19,929	275	0.275	2.750	1,205	12,045	1.80	7,884	
2525	Orange County Correctional Facility	EX T		E1 YARDS	400 Watt Metal Halide	Retrofit with a 320 watt metal halide pulse start lighting system.	4,380	26,280	26,280	6	455	0.455	2.730	1,993	11,957	275	0.275	1.650	1,205	7,227	1.08	4,730	
2526	Orange County Correctional Facility	1		CORRIDOR D WING	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	148,920	148,920	17	61	0.061	1.037	534	9,084	44	0.044	0.748	385	6,552	0.29	2,532	
2527	Orange County Correctional Facility	1		D VESTIBULE	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	43,680	43,680	6	62	0.062	0.373	452	2,713	28	0.028	0.168	204	1,223	0.20	1,489	
2528	Orange County Correctional Facility	1		D3 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0	
2529	Orange County Correctional Facility	EX T		D3 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	85	0.085	0.170	745	1,489	0.74	6,482	
2529	Orange County Correctional Facility	EX T		D3 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	35,040	35,040	4	455	0.455	1.820	3,986	15,943	0	0.000	0.000	0	0	1.82	15,943	
2530	Orange County Correctional Facility	1		D2 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0	
2531	Orange County Correctional Facility	EX T		D2 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	8,760	8,760	1	455	0.455	0.455	3,986	3,986	85	0.085	0.085	745	745	0.37	3,241	
2531	Orange County Correctional Facility	EX T		D2 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	43,800	43,800	5	455	0.455	2.275	3,986	19,929	0	0.000	0.000	0	0	2.28	19,929	
2532	Orange County Correctional Facility	1		D4 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0	
2533	Orange County Correctional Facility	EX T		D4 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	85	0.085	0.255	745	2,234	1.11	9,724	
2533	Orange County Correctional Facility	EX T		D4 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	0	0.000	0.000	0	0	1.37	11,957	
2534	Orange County Correctional Facility	1		D1 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0	
2535	Orange County Correctional Facility	EX T		D1 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	85	0.085	0.255	745	2,234	1.11	9,724	
2535	Orange County Correctional Facility	EX T		D1 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	0	0.000	0.000	0	0	1.37	11,957	
2536	Orange County Correctional Facility	1		A1 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0	
2537	Orange County Correctional Facility	EX T		A1 YARD	400 Watt Metal Halide	Install a new 4' vapor tight high bay fixture with wire guard, white	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	294	0.294	0.588	2,575	5,151	0.32	2,821	
2537	Orange County Correctional Facility	EX T		A1 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	85	0.085	0.170	745	1,489	0.74	6,482	
2537	Orange County Correctional Facility	EX T		A1 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	8,760	8,760	1	455	0.455	0.455	3,986	3,986	0	0.000	0.000	0	0	0.46	3,986	
2538	Orange County Correctional Facility	1		A2 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0	
2539	Orange County Correctional Facility	EX T		A2 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	85	0.085	0.170	745	1,489	0.74	6,482	
2539	Orange County Correctional Facility	EX T		A2 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	35,040	35,040	4	455	0.455	1.820	3,986	15,943	0	0.000	0.000	0	0	1.82	15,943	
2540	Orange County Correctional Facility	1		A3 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0	
2541	Orange County Correctional Facility	EX T		A3 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	85	0.085	0.170	745	1,489	0.74	6,482	
2541	Orange County Correctional Facility	EX T		A3 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	0	0.000	0.000	0	0	1.37	11,957	
2542	Orange County Correctional Facility	1		B VESTIBULE	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	43,680	43,680	6	62	0.062	0.373	452	2,713	28	0.028	0.168	204	1,223	0.20	1,489	
2543	Orange County Correctional Facility	1		B3 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0	

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2544	Orange County Correctional Facility	EX T		B3 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	85	0.085	0.170	745	1,489	0.74	6,482
2544	Orange County Correctional Facility	EX T		B3 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	0	0.000	0.000	0	0	1.37	11,957
2545	Orange County Correctional Facility	1		B2 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0
2546	Orange County Correctional Facility	EX T		B2 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	85	0.085	0.170	745	1,489	0.74	6,482
2546	Orange County Correctional Facility	EX T		B2 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	0	0.000	0.000	0	0	1.37	11,957
2547	Orange County Correctional Facility	1		B4 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248
2548	Orange County Correctional Facility	EX T		B4 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	17,520	17,520	2	455	0.455	0.910	3,986	7,972	85	0.085	0.170	745	1,489	0.74	6,482
2548	Orange County Correctional Facility	EX T		B4 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	0	0.000	0.000	0	0	1.37	11,957
2549	Orange County Correctional Facility	1		B1 SALLY PORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0
2550	Orange County Correctional Facility	EX T		B1 YARD	400 Watt Metal Halide	Install a new 80 watt induction flood fixture.	8,760	26,280	26,280	3	455	0.455	1.365	3,986	11,957	85	0.085	0.255	745	2,234	1.11	9,724
2550	Orange County Correctional Facility	EX T		B1 YARD	400 Watt Metal Halide	Disconnect Existing System	8,760	52,560	52,560	6	455	0.455	2.730	3,986	23,915	0	0.000	0.000	0	0	2.73	23,915
2551	Orange County Correctional Facility	1		CORRIDOR B WING	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	131,400	131,400	15	61	0.061	0.915	534	8,015	44	0.044	0.660	385	5,782	0.26	2,234
2552	Orange County Correctional Facility	1		CORRIDOR E5	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	78,840	78,840	9	61	0.061	0.549	534	4,809	44	0.044	0.396	385	3,469	0.15	1,340
2553	Orange County Correctional Facility	1		CORRIDOR E6	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	43,800	43,800	5	62	0.062	0.311	544	2,720	28	0.028	0.140	245	1,226	0.17	1,494
2554	Orange County Correctional Facility	1		CORRIDOR E5 CENTER	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	96,360	96,360	11	61	0.061	0.671	534	5,878	44	0.044	0.484	385	4,240	0.19	1,638
2555	Orange County Correctional Facility	1		CORRIDOR E5 CENTER	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	271,560	271,560	31	61	0.061	1.891	534	16,565	44	0.044	1.364	385	11,949	0.53	4,617
2555	Orange County Correctional Facility	1		CORRIDOR E5 CENTER / NORTH HALL / JANITOR CLOSET	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2556	Orange County Correctional Facility	1		CORRIDOR E6 CENTER	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	61	0.061	0.000	534	0	44	0.044	0.000	385	0	0.00	0
2557	Orange County Correctional Facility	1		CORRIDOR E6 CENTER	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	61	0.061	0.000	534	0	44	0.044	0.000	385	0	0.00	0
2558	Orange County Correctional Facility	1		CORRIDOR GYM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	96,360	96,360	11	61	0.061	0.671	534	5,878	44	0.044	0.484	385	4,240	0.19	1,638
2559	Orange County Correctional Facility	1		CORRIDOR CHAPEL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	113,880	113,880	13	61	0.061	0.793	534	6,947	44	0.044	0.572	385	5,011	0.22	1,936
2560	Orange County Correctional Facility	1		CORRIDOR MAINTENANCE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	192,720	192,720	22	61	0.061	1.342	534	11,756	44	0.044	0.968	385	8,480	0.37	3,276
2561	Orange County Correctional Facility	1		CORRIDOR LOADING DOCK	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	61,320	61,320	7	61	0.061	0.427	534	3,741	44	0.044	0.308	385	2,698	0.12	1,042
2562	Orange County Correctional Facility	1		CORRIDOR LOCKER ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	62	0.062	0.000	544	0	28	0.028	0.000	245	0	0.00	0
2563	Orange County Correctional Facility	1		LOBBY	70 Watt Metal Halide, Wall Sconce	No Retrofit	7,280	0	0	0	95	0.095	0.000	692	0	95	0.095	0.000	692	0	0.00	0
2564	Orange County Correctional Facility	2		ADMIN OPEN	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	262,080	262,080	36	62	0.062	2.236	452	16,275	40	0.040	1.440	291	10,483	0.80	5,792
2565	Orange County Correctional Facility	2		RESTROOM MENS (2)	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	62	0.062	0.124	544	1,088	28	0.028	0.056	245	491	0.07	597
2566	Orange County Correctional Facility	2		RESTROOM MENS (2)	1x2 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	45	0.045	0.090	394	788	27	0.027	0.054	237	473	0.04	315
2568	Orange County Correctional Facility	2		RESTROOMS WOMENS (2)	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	62	0.062	0.124	544	1,088	28	0.028	0.056	245	491	0.07	597
2569	Orange County Correctional Facility	2		RESTROOMS WOMENS (2)	1x2 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	45	0.045	0.090	394	788	27	0.027	0.054	237	473	0.04	315
2571	Orange County Correctional Facility	2		UTILITY- STORAGE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	1,456	1,456	1,456	1	61	0.061	0.061	89	89	44	0.044	0.044	64	64	0.02	25
2572	Orange County Correctional Facility	2		BREAK ROOM	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	1,040	4,160	4,160	4	61	0.061	0.244	63	254	44	0.044	0.176	46	183	0.07	71
2574	Orange County Correctional Facility	2		OFFICE 1	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	111	0.111	0.222	242	484	44	0.044	0.088	96	192	0.13	292
2576	Orange County Correctional Facility	2		OFFICE 2	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	111	0.111	0.222	242	484	44	0.044	0.088	96	192	0.13	292
2578	Orange County Correctional Facility	2		OFFICE 3	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	111	0.111	0.222	242	484	44	0.044	0.088	96	192	0.13	292
2580	Orange County Correctional Facility	2		OFFICE 4	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	111	0.111	0.222	485	971	44	0.044	0.088	193	385	0.13	585
2582	Orange County Correctional Facility	2		OFFICE 5	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	111	0.111	0.222	807	1,613	44	0.044	0.088	320	641	0.13	973
2584	Orange County Correctional Facility	2		OFFICE 6	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	111	0.111	0.222	807	1,613	44	0.044	0.088	320	641	0.13	973
2586	Orange County Correctional Facility	2		OFFICE 7	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
2588	Orange County Correctional Facility	2		OFFICE 8	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	111	0.111	0.222	242	484	44	0.044	0.088	96	192	0.13	292
2590	Orange County Correctional Facility	2		OFFICE 9	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	35,040	35,040	4	111	0.111	0.443	971	3,882	44	0.044	0.176	385	1,542	0.27	2,341
2592	Orange County Correctional Facility	2		OFFICE 10	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	111	0.111	0.443	242	968	44	0.044	0.176	96	384	0.27	584
2594	Orange County Correctional Facility	2		OFFICE 11	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	10,192	10,192	4	111	0.111	0.443	282	1,129	44	0.044	0.176	112	448	0.27	681
2596	Orange County Correctional Facility	2		OFFICE 12	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	111	0.111	0.000	807	0	44	0.044	0.000	320	0	0.00	0

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2598	Orange County Correctional Facility	2		BACK STAIRWAY	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	61	0.061	0.244	133	533	44	0.044	0.176	96	384	0.07	149
2599	Orange County Correctional Facility	2		CONFERENCE ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	70,080	70,080	8	62	0.062	0.497	544	4,352	40	0.040	0.320	350	2,803	0.18	1,549
2601	Orange County Correctional Facility	2		CONFERENCE ROOM	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	2,184	17,472	17,472	8	100	0.100	0.800	218	1,747	23	0.023	0.184	50	402	0.62	1,345
2602	Orange County Correctional Facility	2		CONFERENCE ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	0	0	0	61	0.061	0.000	155	0	44	0.044	0.000	112	0	0.00	0
2603	Orange County Correctional Facility	1		MAINTENANCE SHOP HALL	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	15,288	15,288	6	61	0.061	0.366	155	933	44	0.044	0.264	112	673	0.10	260
2603	Orange County Correctional Facility	1		MAINTENANCE SHOP HALL	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	30,576	30,576	12	61	0.061	0.732	155	1,865	44	0.044	0.528	112	1,345	0.20	520
2604	Orange County Correctional Facility	1		MAINTENANCE OFFICE	2x4 2 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	8,760	35,040	17,520	4	61	0.061	0.244	534	2,137	86	0.086	0.172	753	1,507	0.07	631
2606	Orange County Correctional Facility	1		FILE ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	111	0.111	0.222	485	971	44	0.044	0.088	193	385	0.13	585
2608	Orange County Correctional Facility	1		RADIO CHARGING STATION	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	111	0.111	0.111	807	807	44	0.044	0.044	320	320	0.07	486
2610	Orange County Correctional Facility	1		PRIVATE RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2612	Orange County Correctional Facility	1		WAREHOUSE ENTRANCE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2613	Orange County Correctional Facility	1		UTILITY SHOP 1	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	7,280	43,680	43,680	6	111	0.111	0.665	807	4,840	86	0.086	0.516	626	3,756	0.15	1,083
2613	Orange County Correctional Facility	1		UTILITY SHOP 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248
2614	Orange County Correctional Facility	1		UTILITY SHOP 2	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	4,380	26,280	26,280	6	111	0.111	0.665	485	2,912	86	0.086	0.516	377	2,260	0.15	652
2614	Orange County Correctional Facility	1		UTILITY SHOP 2	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2615	Orange County Correctional Facility	1		UTILITY SHOP 3	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	7,280	43,680	43,680	6	111	0.111	0.665	807	4,840	86	0.086	0.516	626	3,756	0.15	1,083
2615	Orange County Correctional Facility	1		UTILITY SHOP 3	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	7,280	14,560	14,560	2	111	0.111	0.222	807	1,613	86	0.086	0.172	626	1,252	0.05	361
2616	Orange County Correctional Facility	1		UTILITY SHOP 4	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	4,380	26,280	26,280	6	111	0.111	0.665	485	2,912	86	0.086	0.516	377	2,260	0.15	652
2616	Orange County Correctional Facility	1		UTILITY SHOP 4	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2616	Orange County Correctional Facility	1		UTILITY SHOP 4	1x4 2 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	4,380	17,520	8,760	4	61	0.061	0.244	267	1,069	86	0.086	0.172	377	753	0.07	315
2616	Orange County Correctional Facility	1		UTILITY SHOP 4	1x4 2 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	86	0.086	0.086	377	377	-0.03	-110
2617	Orange County Correctional Facility	1		UTILITY STORAGE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248
2618	Orange County Correctional Facility	1		BREAK ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	17,520	17,520	4	62	0.062	0.248	272	1,088	28	0.028	0.112	123	491	0.14	597
2620	Orange County Correctional Facility	1		PRINT ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	111	0.111	0.222	485	971	44	0.044	0.088	193	385	0.13	585
2622	Orange County Correctional Facility	1		STOREHOUSE	1x4 2 Lamp T8	Install a new 4' standard wrap fixture, 1 lamp low power instant s	7,280	29,120	29,120	4	61	0.061	0.244	444	1,776	22	0.022	0.088	160	641	0.16	1,136
2623	Orange County Correctional Facility	1		STOREHOUSE	250 Watt Metal Halide	Install a new 4' high bay fixture with wire guard, white reflector, a	7,280	116,480	116,480	16	295	0.295	4.720	2,148	34,362	131	0.131	2.096	954	15,259	2.62	19,103
2625	Orange County Correctional Facility	1		STOREHOUSE OFFICE 3	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	111	0.111	0.222	485	971	44	0.044	0.088	193	385	0.13	585
2627	Orange County Correctional Facility	1		STOREHOUSE OFFICE 2	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	111	0.111	0.222	485	971	44	0.044	0.088	193	385	0.13	585
2629	Orange County Correctional Facility	1		STOREHOUSE OFFICE 1	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	111	0.111	0.222	485	971	44	0.044	0.088	193	385	0.13	585
2631	Orange County Correctional Facility	1		RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2633	Orange County Correctional Facility	1		BREAK ROOM	150 Watt Inc	Install a new 8' standard wrap fixture, 2 lamp low power instant s	8,760	8,760	8,760	1	150	0.150	0.150	1,314	1,314	44	0.044	0.044	385	385	0.11	929
2634	Orange County Correctional Facility	1		STORAGE	1x4 2 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	6,205	12,410	6,205	2	61	0.061	0.122	379	757	86	0.086	0.086	534	534	0.04	223
2634	Orange County Correctional Facility	1		STORAGE	1x4 2 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	6,205	6,205	6,205	1	61	0.061	0.061	379	379	86	0.086	0.086	534	534	-0.03	-155
2635	Orange County Correctional Facility	1		DOCK	100 Watt High Pressure Sodium	Install a new wall pack fixture, with (1) 28 watt compact fluoresce	4,380	21,900	21,900	5	130	0.130	0.650	569	2,847	28	0.028	0.140	123	613	0.51	2,234
2635	Orange County Correctional Facility	1		SOG HEAD-QUARTER - GARAGE	100 Watt High Pressure Sodium	Install a new wall pack fixture, with (1) 28 watt compact fluoresce	4,380	21,900	21,900	5	130	0.130	0.650	569	2,847	28	0.028	0.140	123	613	0.51	2,234
2635	Orange County Correctional Facility	1		SOG HEAD-QUARTER - OFFICE	100 Watt High Pressure Sodium	Install a new wall pack fixture, with (1) 28 watt compact fluoresce	4,380	17,520	17,520	4	130	0.130	0.520	569	2,278	28	0.028	0.112	123	491	0.41	1,787
2635	Orange County Correctional Facility	1		SOG HEAD-QUARTER - BATHROOM	100 Watt High Pressure Sodium	Install a new wall pack fixture, with (1) 28 watt compact fluoresce	4,380	4,380	4,380	1	130	0.130	0.130	569	569	28	0.028	0.028	123	123	0.10	447
2635	Orange County Correctional Facility	1		SOG HEAD-QUARTER - RADIO ROOM	100 Watt High Pressure Sodium	Install a new wall pack fixture, with (1) 28 watt compact fluoresce	4,380	4,380	4,380	1	130	0.130	0.130	569	569	28	0.028	0.028	123	123	0.10	447
2635	Orange County Correctional Facility	1		TRUCKERS LOUNGE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2635	Orange County Correctional Facility	1		TRUCKERS LOUNGE RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2636	Orange County Correctional Facility	1		BOILER ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	280,320	280,320	32	61	0.061	1.952	534	17,100	44	0.044	1.408	385	12,334	0.54	4,765
2636	Orange County Correctional Facility	1		BOILER ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	175,200	175,200	20	61	0.061	1.220	534	10,687	44	0.044	0.880	385	7,709	0.34	2,978
2637	Orange County Correctional Facility	1		BOILER ROOM OFFICE	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
2639	Orange County Correctional Facility	1		ELECTRICAL ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	131,400	131,400	15	61	0.061	0.915	534	8,015	44	0.044	0.660	385	5,782	0.26	2,234

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2640	Orange County Correctional Facility	1		LOCKER ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2642	Orange County Correctional Facility	1		GENERATOR ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	96,360	96,360	11	61	0.061	0.671	534	5,878	44	0.044	0.484	385	4,240	0.19	1,638
2643	Orange County Correctional Facility	1		GENERATOR ROOM	1x4 2 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	8,760	0	0	0	61	0.061	0.000	534	0	86	0.086	0.000	753	0	0.00	0
2644	Orange County Correctional Facility	1		SALLY PORT/ MAINTENANCE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	29,120	29,120	4	61	0.061	0.244	444	1,776	44	0.044	0.176	320	1,281	0.07	495
2645	Orange County Correctional Facility	1		SALLY PORT/ MAINTENANCE	1x2 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	45	0.045	0.000	328	0	27	0.027	0.000	197	0	0.00	0
2646	Orange County Correctional Facility	1		LAUNDRY/ MAINT HALL	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	113,880	113,880	13	61	0.061	0.793	534	6,947	44	0.044	0.572	385	5,011	0.22	1,936
2647	Orange County Correctional Facility	1		LAUNDRY ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	148,920	148,920	17	111	0.111	1.884	971	16,500	44	0.044	0.748	385	6,552	1.14	9,948
2648	Orange County Correctional Facility	1		LAUNDRY ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
2649	Orange County Correctional Facility	1		LAUNDRY OFFICE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2650	Orange County Correctional Facility	1		PRIVATE RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2651	Orange County Correctional Facility	1		INMATE RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2652	Orange County Correctional Facility	1		CLOTHING	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	1,456	2,912	2,912	2	61	0.061	0.122	89	178	44	0.044	0.088	64	128	0.03	50
2653	Orange County Correctional Facility	1		BREAK ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	1,040	1,040	1,040	1	111	0.111	0.111	115	115	44	0.044	0.044	46	46	0.07	69
2654	Orange County Correctional Facility	1		CUSTODIAL	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	62	0.062	0.124	136	271	28	0.028	0.056	61	122	0.07	149
2655	Orange County Correctional Facility	1		LINEN	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2656	Orange County Correctional Facility	1		EQUIPMENT ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2657	Orange County Correctional Facility	1		SPRINKLER ROOM SW	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	6,552	6,552	3	61	0.061	0.183	133	400	44	0.044	0.132	96	288	0.05	111
2658	Orange County Correctional Facility	1		AIR HANDLER	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	78,840	78,840	9	61	0.061	0.549	534	4,809	44	0.044	0.396	385	3,469	0.15	1,340
2659	Orange County Correctional Facility	1		ELECTRIC ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2659	Orange County Correctional Facility	1		Command office #1/open	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	17,472	17,472	8	61	0.061	0.488	133	1,066	44	0.044	0.352	96	769	0.14	297
2659	Orange County Correctional Facility	1		Command office, office 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2659	Orange County Correctional Facility	1		Command office, office 2	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	6,552	6,552	3	61	0.061	0.183	133	400	44	0.044	0.132	96	288	0.05	111
2659	Orange County Correctional Facility	1		Command office, closet	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2659	Orange County Correctional Facility	1		Command office, bathroom	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2660	Orange County Correctional Facility	1		KITCHEN	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	175,200	175,200	40	84	0.084	3.368	369	14,752	44	0.044	1.760	193	7,709	1.61	7,043
2661	Orange County Correctional Facility	1		KITCHEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	183,960	183,960	42	61	0.061	2.562	267	11,222	44	0.044	1.848	193	8,094	0.71	3,127
2661	Orange County Correctional Facility	1		KITCHEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2661	Orange County Correctional Facility	1		KITCHEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	26,280	26,280	6	61	0.061	0.366	267	1,603	44	0.044	0.264	193	1,156	0.10	447
2661	Orange County Correctional Facility	1		KITCHEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2661	Orange County Correctional Facility	1		KITCHEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	17,520	17,520	4	61	0.061	0.244	267	1,069	44	0.044	0.176	193	771	0.07	298
2661	Orange County Correctional Facility	1		KITCHEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	52,560	52,560	12	61	0.061	0.732	267	3,206	44	0.044	0.528	193	2,313	0.20	894
2661	Orange County Correctional Facility	1		KITCHEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	17,520	17,520	4	61	0.061	0.244	267	1,069	44	0.044	0.176	193	771	0.07	298
2661	Orange County Correctional Facility	1		KITCHEN	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2662	Orange County Correctional Facility	1		KITCHEN HOOD	1x4 2 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	4,380	52,560	52,560	12	72	0.072	0.866	316	3,795	44	0.044	0.528	193	2,313	0.34	1,482
2663	Orange County Correctional Facility	1		KITCHEN OFFICE 1	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	111	0.111	0.222	807	1,613	44	0.044	0.088	320	641	0.13	973
2664	Orange County Correctional Facility	1		KITCHEN OFFICE 2	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
2665	Orange County Correctional Facility	1		REST ROOM LOBBY	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0
2666	Orange County Correctional Facility	1		MENS ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2667	Orange County Correctional Facility	1		WOMENS ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2668	Orange County Correctional Facility	1		CUSTODIAL	60 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	8,760	17,520	17,520	2	60	0.060	0.120	526	1,051	20	0.020	0.040	175	350	0.08	701
2669	Orange County Correctional Facility	1		STAFF SERVING	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	61	0.061	0.244	133	533	44	0.044	0.176	96	384	0.07	149
2670	Orange County Correctional Facility	1		STAFF SERVING	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	2,184	0	0	0	62	0.062	0.000	136	0	40	0.040	0.000	87	0	0.00	0
2671	Orange County Correctional Facility	1		STAFF DINING	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	78,840	78,840	9	62	0.062	0.559	544	4,896	40	0.040	0.360	350	3,154	0.20	1,742
2672	Orange County Correctional Facility	1		RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2673	Orange County Correctional Facility	1		CAPTAIN'S OFFICE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	0	0	0	84	0.084	0.000	184	0	44	0.044	0.000	96	0	0.00	0
2674	Orange County Correctional Facility	1		CENTRAL CONTROL	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	17,836	17,836	7	84	0.084	0.589	215	1,502	44	0.044	0.308	112	785	0.28	717
2675	Orange County Correctional Facility	1		EQUIPMENT ROOM	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	10,192	10,192	4	84	0.084	0.337	215	858	44	0.044	0.176	112	448	0.16	410
2676	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2677	Orange County Correctional Facility	1		SALLYPORT	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
2678	Orange County Correctional Facility	1		WAITING AREA	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	2,184	28,392	28,392	13	62	0.062	0.807	136	1,763	40	0.040	0.520	87	1,136	0.29	627
2679	Orange County Correctional Facility	1		WAITING AREA	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	2,184	10,920	10,920	5	62	0.062	0.311	136	678	40	0.040	0.200	87	437	0.11	241
2680	Orange County Correctional Facility	1		WAITING AREA	60 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	8,760	70,080	70,080	8	60	0.060	0.480	526	4,205	20	0.020	0.160	175	1,402	0.32	2,803
2681	Orange County Correctional Facility	1		FRONT COUNTER	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	29,120	29,120	4	62	0.062	0.248	452	1,808	40	0.040	0.160	291	1,165	0.09	644
2682	Orange County Correctional Facility	1		FRONT COUNTER	1x4 2 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,184	13,104	6,552	6	61	0.061	0.366	133	799	86	0.086	0.258	188	563	0.11	236
2683	Orange County Correctional Facility	1		LOCKERS	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	2,548	5,096	5,096	2	62	0.062	0.124	158	316	40	0.040	0.080	102	204	0.04	113
2683	Orange County Correctional Facility	1		LOCKERS	1x4 2 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,548	2,548	2,548	1	61	0.061	0.061	155	155	86	0.086	0.086	219	219	-0.03	-64
2684	Orange County Correctional Facility	1		RESTROOM (2)	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	10,192	10,192	4	62	0.062	0.248	158	633	28	0.028	0.112	71	285	0.14	348
2685	Orange County Correctional Facility	1		RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2686	Orange County Correctional Facility	1		STORAGE ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
2687	Orange County Correctional Facility	1		MAILROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	13,140	13,140	3	111	0.111	0.332	485	1,456	44	0.044	0.132	193	578	0.20	878
2688	Orange County Correctional Facility	1		REST ROOM LOBBY	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2689	Orange County Correctional Facility	1		RECEPTION	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	43,680	43,680	6	62	0.062	0.373	452	2,713	40	0.040	0.240	291	1,747	0.13	965
2690	Orange County Correctional Facility	1		OFFICE 1	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	14,560	14,560	2	62	0.062	0.124	452	904	40	0.040	0.080	291	582	0.04	322
2691	Orange County Correctional Facility	1		OFFICE 2	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	26,280	26,280	6	62	0.062	0.373	272	1,632	40	0.040	0.240	175	1,051	0.13	581
2692	Orange County Correctional Facility	1		BREAK ROOM	23 Watt CFL	No Retrofit	7,280	0	0	0	24	0.024	0.000	175	0	24	0.024	0.000	175	0	0.00	0
2693	Orange County Correctional Facility	1		SHERIFF'S ADMIN OPEN	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	30,660	30,660	7	62	0.062	0.435	272	1,904	40	0.040	0.280	175	1,226	0.15	678
2694	Orange County Correctional Facility	1		STORAGE ADMIN ARCHIVES	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	29,120	29,120	4	62	0.062	0.248	452	1,808	28	0.028	0.112	204	815	0.14	993
2696	Orange County Correctional Facility	1		OFFICE 1	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	43,680	43,680	6	62	0.062	0.373	452	2,713	40	0.040	0.240	291	1,747	0.13	965
2698	Orange County Correctional Facility	1		OFFICE 2	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	29,120	29,120	4	62	0.062	0.248	452	1,808	40	0.040	0.160	291	1,165	0.09	644
2700	Orange County Correctional Facility	1		OFFICE 3	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	43,680	43,680	6	62	0.062	0.373	452	2,713	40	0.040	0.240	291	1,747	0.13	965
2702	Orange County Correctional Facility	1		OFFICE 4	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	29,120	29,120	4	62	0.062	0.248	452	1,808	40	0.040	0.160	291	1,165	0.09	644
2704	Orange County Correctional Facility	1		OFFICE 5	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	29,120	29,120	4	62	0.062	0.248	452	1,808	40	0.040	0.160	291	1,165	0.09	644
2706	Orange County Correctional Facility	1		CONFERENCE ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	65,700	65,700	15	62	0.062	0.932	272	4,080	40	0.040	0.600	175	2,628	0.33	1,452
2708	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2710	Orange County Correctional Facility	1		KITCHEN	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	4,380	4,380	1	62	0.062	0.062	272	272	40	0.040	0.040	175	175	0.02	97
2711	Orange County Correctional Facility	1		SHERIFF'S OFFICE	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	58,240	58,240	8	62	0.062	0.497	452	3,617	40	0.040	0.320	291	2,330	0.18	1,287
2712	Orange County Correctional Facility	1		SHERIFF'S OFFICE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	0	0	0	61	0.061	0.000	267	0	44	0.044	0.000	193	0	0.00	0
2713	Orange County Correctional Facility	1		SHERIFF'S OFFICE	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	8,760	87,600	87,600	10	100	0.100	1.000	876	8,760	23	0.023	0.230	201	2,015	0.77	6,745
2714	Orange County Correctional Facility	1		RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2716	Orange County Correctional Facility	1		CUSTODIAL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	61	0.061	0.000	534	0	44	0.044	0.000	385	0	0.00	0
2717	Orange County Correctional Facility	1		CIVIL ARCHIVES	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	17,520	17,520	2	62	0.062	0.124	544	1,088	40	0.040	0.080	350	701	0.04	387
2719	Orange County Correctional Facility	1		RESTROOM HALL	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	17,520	17,520	2	62	0.062	0.124	544	1,088	40	0.040	0.080	350	701	0.04	387
2720	Orange County Correctional Facility	1		TELECOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	87,600	87,600	10	62	0.062	0.621	544	5,440	40	0.040	0.400	350	3,504	0.22	1,936
2722	Orange County Correctional Facility	1		COMMUNICATIONS ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	394,200	394,200	45	62	0.062	2.795	544	24,480	40	0.040	1.800	350	15,768	0.99	8,712
2723	Orange County Correctional Facility	1		BACK HALL	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	87,600	87,600	10	62	0.062	0.621	544	5,440	28	0.028	0.280	245	2,453	0.34	2,987
2724	Orange County Correctional Facility	1		MULTI PURPOSE/ BREAK	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	78,840	78,840	9	62	0.062	0.559	544	4,896	40	0.040	0.360	350	3,154	0.20	1,742
2726	Orange County Correctional Facility	1		MULTI PURPOSE/ BREAK	Soda Vending Machine	No Retrofit	8,760	0	0	0	427	0.427	0.000	3,741	0	427	0.427	0.000	3,741	0	0.00	0
2728	Orange County Correctional Facility	1		WOMENS ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2729	Orange County Correctional Facility	1		INVESTIGATIONS DIV	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	123,760	123,760	17	62	0.062	1.056	452	7,685	40	0.040	0.680	291	4,950	0.38	2,735
2730	Orange County Correctional Facility	1		EVIDENCE ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	43,800	43,800	10	62	0.062	0.621	272	2,720	40	0.040	0.400	175	1,752	0.22	968
2731	Orange County Correctional Facility	1		DIV SUPERVISOR	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	29,120	29,120	4	62	0.062	0.248	452	1,808	40	0.040	0.160	291	1,165	0.09	644
2732	Orange County Correctional Facility	1		HOLDING ROOM	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	8,760	8,760	8,760	1	111	0.111	0.111	971	971	86	0.086	0.086	753	753	0.02	217
2732	Orange County Correctional Facility	1		HOLDING ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2733	Orange County Correctional Facility	1		INTERVIEW ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	14,560	14,560	2	62	0.062	0.124	452	904	40	0.040	0.080	291	582	0.04	322
2734	Orange County Correctional Facility	1		SHERIFF'S ENTRY	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	8,760	8,760	2	62	0.062	0.124	272	544	40	0.040	0.080	175	350	0.04	194
2735	Orange County Correctional Facility	1		SQUAD ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	218,400	218,400	30	62	0.062	1.863	452	13,563	40	0.040	1.200	291	8,736	0.66	4,827
2736	Orange County Correctional Facility	1		DET CENTER	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	26,280	26,280	6	62	0.062	0.373	272	1,632	40	0.040	0.240	175	1,051	0.13	581
2737	Orange County Correctional Facility	1		HOLDING CELL 1	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	8,760	26,280	26,280	3	111	0.111	0.332	971	2,912	86	0.086	0.258	753	2,260	0.07	652
2738	Orange County Correctional Facility	1		HOLDING CELL 1 SHOWER	2x13 Watt CFL	No Retrofit	8,760	0	0	0	31	0.031	0.000	272	0	31	0.031	0.000	272	0	0.00	0
2739	Orange County Correctional Facility	1		HOLDING CELL 2	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	8,760	26,280	26,280	3	111	0.111	0.332	971	2,912	86	0.086	0.258	753	2,260	0.07	652
2740	Orange County Correctional Facility	1		HOLDING CELL 2 SHOWER	2x13 Watt CFL	No Retrofit	8,760	0	0	0	31	0.031	0.000	272	0	31	0.031	0.000	272	0	0.00	0
2741	Orange County Correctional Facility	1		LIEUTNEANTS OFFICE 1	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	35,040	35,040	4	62	0.062	0.248	544	2,176	40	0.040	0.160	350	1,402	0.09	774
2743	Orange County Correctional Facility	1		STORAGE CLOSETS (2)	15 Watt CFL	No Retrofit	8,760	0	0	0	17	0.017	0.000	149	0	17	0.017	0.000	149	0	0.00	0
2744	Orange County Correctional Facility	1		LIEUTNEANTS OFFICE 2	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	35,040	35,040	4	62	0.062	0.248	544	2,176	40	0.040	0.160	350	1,402	0.09	774
2745	Orange County Correctional Facility	1		MENS LOCKER	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	61,320	61,320	7	62	0.062	0.435	544	3,808	40	0.040	0.280	350	2,453	0.15	1,355
2746	Orange County Correctional Facility	1		MENS LOCKER	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2747	Orange County Correctional Facility	1		WOMENS LOCKER	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	35,040	35,040	4	62	0.062	0.248	544	2,176	40	0.040	0.160	350	1,402	0.09	774
2748	Orange County Correctional Facility	1		WOMENS LOCKER	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2749	Orange County Correctional Facility	1		MENS ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
2750	Orange County Correctional Facility	1		CIVIL UNIT	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	152,880	152,880	21	62	0.062	1.304	452	9,494	40	0.040	0.840	291	6,115	0.46	3,379
2751	Orange County Correctional Facility	1		UNIT OFFICE	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	35,040	35,040	4	62	0.062	0.248	544	2,176	40	0.040	0.160	350	1,402	0.09	774
2753	Orange County Correctional Facility	1		SUPPLY	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	62	0.062	0.062	544	544	28	0.028	0.028	245	245	0.03	299
2755	Orange County Correctional Facility	1		MASTER HALL	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	105,120	105,120	12	61	0.061	0.732	534	6,412	44	0.044	0.528	385	4,625	0.20	1,787
2756	Orange County Correctional Facility	1		MASTER HALL	Soda Vending Machine	No Retrofit	8,760	0	0	0	427	0.427	0.000	3,741	0	427	0.427	0.000	3,741	0	0.00	0
2758	Orange County Correctional Facility	1		QUARTER MASTER	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	1,456	10,192	10,192	7	111	0.111	0.776	161	1,129	44	0.044	0.308	64	448	0.47	681
2760	Orange County Correctional Facility	1		WOMENS LOCKER	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	17,472	17,472	8	61	0.061	0.488	133	1,066	44	0.044	0.352	96	769	0.14	297
2761	Orange County Correctional Facility	1		WOMENS LOCKER	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	2,184	6,552	6,552	3	62	0.062	0.186	136	407	40	0.040	0.120	87	262	0.07	145
2762	Orange County Correctional Facility	1		WOMENS LOCKER	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2763	Orange County Correctional Facility	1		SARGENT LOCKER ROOM	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	17,472	17,472	8	61	0.061	0.488	133	1,066	44	0.044	0.352	96	769	0.14	297
2764	Orange County Correctional Facility	1		MENS LOCKER	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	131,400	131,400	15	61	0.061	0.915	534	8,015	44	0.044	0.660	385	5,782	0.26	2,234
2765	Orange County Correctional Facility	1		MENS RESTROOM (2)	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	2,184	4,368	4,368	2	62	0.062	0.124	136	271	40	0.040	0.080	87	175	0.04	97
2766	Orange County Correctional Facility	1		MENS RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2767	Orange County Correctional Facility	1		TRAINING ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	87,600	87,600	20	111	0.111	2.216	485	9,706	44	0.044	0.880	193	3,854	1.34	5,852
2768	Orange County Correctional Facility	1		KITCHEN	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2770	Orange County Correctional Facility	1		CELL	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	2,912	2,912	1	111	0.111	0.111	323	323	86	0.086	0.086	250	250	0.02	72
2771	Orange County Correctional Facility	1		STORAGE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248
2773	Orange County Correctional Facility	1		ARMERY	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	61	0.061	0.000	534	0	44	0.044	0.000	385	0	0.00	0
2775	Orange County Correctional Facility	1		ELEVATOR ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2776	Orange County Correctional Facility	1		LOCK SMITH AREA / Armory	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	111	0.111	0.443	242	968	44	0.044	0.176	96	384	0.27	584
2776	Orange County Correctional Facility	1		LOCK SMITH AREA	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	2,184	4,368	4,368	2	62	0.062	0.124	136	271	40	0.040	0.080	87	175	0.04	97
2777	Orange County Correctional Facility	1		ELECTRIC ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2778	Orange County Correctional Facility	1		OLD EVIDENCE ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	1,040	2,080	2,080	2	61	0.061	0.122	63	127	44	0.044	0.088	46	92	0.03	35

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2779	Orange County Correctional Facility	1		ELEVATOR	1x4 1 Lamp T12	Retrofit with a 1 lamp high performance low power instant start e	8,760	17,520	17,520	2	43	0.043	0.086	377	753	22	0.022	0.044	193	385	0.04	368
2780	Orange County Correctional Facility	1		ELEVATOR	1x3 1 Lamp T12	Retrofit with a 1 lamp high performance low power instant start e	8,760	17,520	17,520	2	38	0.038	0.076	333	666	22	0.022	0.044	193	385	0.03	280
2781	Orange County Correctional Facility	1		VISITOR HALL	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	10,192	10,192	4	61	0.061	0.244	155	622	44	0.044	0.176	112	448	0.07	173
2782	Orange County Correctional Facility	1		SP4-C LINE UP	90 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	8,760	17,520	17,520	2	90	0.090	0.180	788	1,577	20	0.020	0.040	175	350	0.14	1,226
2783	Orange County Correctional Facility	1		2.505 LINE UP	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248
2784	Orange County Correctional Facility	1		COMMAND OFFICE #2	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	111	0.111	0.443	242	968	44	0.044	0.176	96	384	0.27	584
2784	Orange County Correctional Facility	1		COMMAND OFFICE #2, bathroom	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2786	Orange County Correctional Facility	1		COMMAND OFFICE #1	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	111	0.111	0.665	971	5,824	44	0.044	0.264	385	2,313	0.40	3,511
2788	Orange County Correctional Facility	1		NON CONTACT VISIT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	6,552	6,552	3	61	0.061	0.183	133	400	44	0.044	0.132	96	288	0.05	111
2789	Orange County Correctional Facility	1		NON CONTACT VISIT (2)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	29,120	29,120	4	28	0.028	0.112	204	815	20	0.020	0.080	146	582	0.03	233
2790	Orange County Correctional Facility	1		PAROLE HALL	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	20,384	20,384	8	62	0.062	0.497	158	1,266	28	0.028	0.224	71	571	0.27	695
2790	Orange County Correctional Facility	1		PAROLE HALL	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	7,644	7,644	3	62	0.062	0.186	158	475	28	0.028	0.084	71	214	0.10	261
2791	Orange County Correctional Facility	1		BOOTH (5)	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	61	0.061	0.366	534	3,206	44	0.044	0.264	385	2,313	0.10	894
2792	Orange County Correctional Facility	1		FRISK ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
2793	Orange County Correctional Facility	1		NON CONTACT VISIT	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	65,700	65,700	15	62	0.062	0.932	272	4,080	40	0.040	0.600	175	2,628	0.33	1,452
2793	Orange County Correctional Facility	1		NON CONTACT VISIT	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	13,140	13,140	3	62	0.062	0.186	272	816	28	0.028	0.084	123	368	0.10	448
2794	Orange County Correctional Facility	1		VISIT VESTIBULE	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	78,840	78,840	9	62	0.062	0.559	544	4,896	28	0.028	0.252	245	2,208	0.31	2,688
2794	Orange County Correctional Facility	1		VISIT VESTIBULE	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	35,040	35,040	4	62	0.062	0.248	544	2,176	40	0.040	0.160	350	1,402	0.09	774
2795	Orange County Correctional Facility	1		VISIT VESTIBULE	1x4 2 Lamp T8	Install a new 4' standard wrap fixture, 1 lamp low power instant s	7,280	14,560	14,560	2	61	0.061	0.122	444	888	22	0.022	0.044	160	320	0.08	568
2796	Orange County Correctional Facility	1		RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	29,120	29,120	4	61	0.061	0.244	444	1,776	44	0.044	0.176	320	1,281	0.07	495
2797	Orange County Correctional Facility	1		VISITING	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	105,120	105,120	24	62	0.062	1.490	272	6,528	40	0.040	0.960	175	4,205	0.53	2,323
2798	Orange County Correctional Facility	1		VISITING	26 Watt CFL	No Retrofit	7,280	0	0	0	27	0.027	0.000	197	0	27	0.027	0.000	197	0	0.00	0
2799	Orange County Correctional Facility	1		VISITING RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2800	Orange County Correctional Facility	1		ST 4 PENTHOUSE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	72,800	72,800	10	61	0.061	0.610	444	4,441	44	0.044	0.440	320	3,203	0.17	1,238
2801	Orange County Correctional Facility	1		2.337 MECH ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2802	Orange County Correctional Facility	1		2.337 A MECH ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248
2803	Orange County Correctional Facility	1		BOOKING VESTIBULE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	84	0.084	0.084	369	369	44	0.044	0.044	193	193	0.04	176
2804	Orange County Correctional Facility	1		OFFICE 1	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	29,120	29,120	4	62	0.062	0.248	452	1,808	40	0.040	0.160	291	1,165	0.09	644
2806	Orange County Correctional Facility	1		OPEN OFFICE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	72,800	72,800	10	84	0.084	0.842	613	6,130	44	0.044	0.440	320	3,203	0.40	2,927
2807	Orange County Correctional Facility	1		BREAK ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2808	Orange County Correctional Facility	1		RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248
2809	Orange County Correctional Facility	1		VALUABLE PROPERTY	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2811	Orange County Correctional Facility	1		BOOKING	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	305,760	305,760	42	62	0.062	2.608	452	18,988	40	0.040	1.680	291	12,230	0.93	6,757
2812	Orange County Correctional Facility	1		BOOKING	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	4,380	35,040	35,040	8	62	0.062	0.497	272	2,176	40	0.040	0.320	175	1,402	0.18	774
2813	Orange County Correctional Facility	1		FIRST AID	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248
2814	Orange County Correctional Facility	1		RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	61	0.061	0.122	267	534	44	0.044	0.088	193	385	0.03	149
2815	Orange County Correctional Facility	1		STORAGE (2)	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	0	0	0	61	0.061	0.000	444	0	44	0.044	0.000	320	0	0.00	0
2816	Orange County Correctional Facility	1		SALLYPORT	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	39,420	39,420	9	61	0.061	0.549	267	2,405	44	0.044	0.396	193	1,734	0.15	670
2817	Orange County Correctional Facility	1		BATHROOM / SEARCH ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
2818	Orange County Correctional Facility	1		VEHICLE SALLYPORT	150 Watt High Pressure Sodium	Install a new canopy fixture, with (1) 32 watt compact fluorescen	4,380	35,040	35,040	8	188	0.188	1.504	823	6,588	34	0.034	0.272	149	1,191	1.23	5,396
2819	Orange County Correctional Facility	1		RESTROOM 1&2	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	5,824	5,824	2	111	0.111	0.222	323	645	86	0.086	0.172	250	501	0.05	144
2820	Orange County Correctional Facility	1		HOLDING CELLS (6)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	140,160	140,160	16	61	0.061	0.976	534	8,550	44	0.044	0.704	385	6,167	0.27	2,383
2821	Orange County Correctional Facility	1		STORAGE / RESTROOM	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2822	Orange County Correctional Facility	1		PROPERTY	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	201,480	201,480	23	61	0.061	1.403	534	12,290	44	0.044	1.012	385	8,865	0.39	3,425

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2822	Orange County Correctional Facility	1		PROPERTY	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	43,800	43,800	5	61	0.061	0.305	534	2,672	44	0.044	0.220	385	1,927	0.09	745
2823	Orange County Correctional Facility	1		RESTROOM (3)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
2824	Orange County Correctional Facility	1		FEMALE SHOWER (2)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	14,560	14,560	2	28	0.028	0.056	204	408	20	0.020	0.040	146	291	0.02	116
2825	Orange County Correctional Facility	1		MALE SHOWER (2)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	14,560	14,560	2	28	0.028	0.056	204	408	20	0.020	0.040	146	291	0.02	116
2826	Orange County Correctional Facility	1		CLOTHING ISSUE (7)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	43,680	43,680	6	28	0.028	0.168	204	1,223	20	0.020	0.120	146	874	0.05	349
2827	Orange County Correctional Facility	1		CORRIDOR	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	122,640	122,640	14	61	0.061	0.854	534	7,481	44	0.044	0.616	385	5,396	0.24	2,085
2826	Orange County Correctional Facility	1		Booking/ CLOTHING ISSUE (7)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
2828	Orange County Correctional Facility	1		CORRIDOR	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	62	0.062	0.062	544	544	28	0.028	0.028	245	245	0.03	299
2829	Orange County Correctional Facility	1		EXIT SALLYPORT (SP3)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
2830	Orange County Correctional Facility	1		COMMAND 3	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	58,240	58,240	8	62	0.062	0.497	452	3,617	28	0.028	0.224	204	1,631	0.27	1,986
2830	Orange County Correctional Facility	1		COMMAND 3	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	29,120	29,120	4	62	0.062	0.248	452	1,808	28	0.028	0.112	204	815	0.14	993
2830	Orange County Correctional Facility	1		COMMAND 3	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
2832	Orange County Correctional Facility	1		CHAPPEL	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	160,160	160,160	22	62	0.062	1.366	452	9,946	40	0.040	0.880	291	6,406	0.49	3,540
2833	Orange County Correctional Facility	1		CHAPPEL	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	14,560	14,560	2	62	0.062	0.124	452	904	40	0.040	0.080	291	582	0.04	322
2833	Orange County Correctional Facility	1		CHAPPEL	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	0	0	0	62	0.062	0.000	452	0	40	0.040	0.000	291	0	0.00	0
2833	Orange County Correctional Facility	1		CHAPPEL / CLOSET	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248
2834	Orange County Correctional Facility	1		MEDICAL RESTROOM (6)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	26,280	26,280	6	61	0.061	0.366	267	1,603	44	0.044	0.264	193	1,156	0.10	447
2835	Orange County Correctional Facility	1		MEDIC BACK HALL	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	87,360	87,360	12	62	0.062	0.745	452	5,425	28	0.028	0.336	204	2,446	0.41	2,979
2836	Orange County Correctional Facility	1		MEDICATION	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	17,520	17,520	4	111	0.111	0.443	485	1,941	44	0.044	0.176	193	771	0.27	1,170
2838	Orange County Correctional Facility	1		CLEAN UTILITY	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2840	Orange County Correctional Facility	1		SOILED UTILITY	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2842	Orange County Correctional Facility	1		PATIENT ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2843	Orange County Correctional Facility	1		ELECTRIC/ DATA	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2844	Orange County Correctional Facility	1		NURSE AREA	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	70,080	70,080	8	84	0.084	0.674	738	5,901	44	0.044	0.352	385	3,084	0.32	2,817
2845	Orange County Correctional Facility	1		EXAM ROOM 1	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	84	0.084	0.253	738	2,213	44	0.044	0.132	385	1,156	0.12	1,056
2846	Orange County Correctional Facility	1		EXAM ROOM 2	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	84	0.084	0.168	738	1,475	44	0.044	0.088	385	771	0.08	704
2847	Orange County Correctional Facility	1		DARK ROOM/ EXAM	23 Watt CFL	No Retrofit	8,760	0	0	0	24	0.024	0.000	210	0	24	0.024	0.000	210	0	0.00	0
2848	Orange County Correctional Facility	1		BREAK ROOM	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	84	0.084	0.253	738	2,213	44	0.044	0.132	385	1,156	0.12	1,056
2850	Orange County Correctional Facility	1		STORAGE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2852	Orange County Correctional Facility	1		CUSTODIAL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2853	Orange County Correctional Facility	1		CHAPPEL	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	84	0.084	0.253	613	1,839	44	0.044	0.132	320	961	0.12	878
2853	Orange County Correctional Facility	1		CHAPPEL	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	87,360	87,360	12	62	0.062	0.745	452	5,425	28	0.028	0.336	204	2,446	0.41	2,979
2853	Orange County Correctional Facility	1		CHAPPEL	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	65,520	65,520	9	61	0.061	0.549	444	3,997	44	0.044	0.396	320	2,883	0.15	1,114
2853	Orange County Correctional Facility	1		CHAPPEL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	94,640	94,640	13	61	0.061	0.793	444	5,773	44	0.044	0.572	320	4,164	0.22	1,609
2855	Orange County Correctional Facility	1		DENTAL OFFICE	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	111	0.111	0.665	971	5,824	44	0.044	0.264	385	2,313	0.40	3,511
2856	Orange County Correctional Facility	1		DENTAL OFFICE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2857	Orange County Correctional Facility	1		X-RAY LAB	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
2859	Orange County Correctional Facility	1		EYE DOCTOR	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
2860	Orange County Correctional Facility	1		PRIVATE RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2861	Orange County Correctional Facility	1		STORAGE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	1,456	2,912	2,912	2	61	0.061	0.122	89	178	44	0.044	0.088	64	128	0.03	50
2863	Orange County Correctional Facility	1		RECORDS 4.266A	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	19,656	19,656	9	84	0.084	0.758	184	1,655	44	0.044	0.396	96	865	0.36	790
2865	Orange County Correctional Facility	1		BREAK ROOM	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	13,104	13,104	6	84	0.084	0.505	184	1,103	44	0.044	0.264	96	577	0.24	527
2867	Orange County Correctional Facility	1		BOTH HALLWAYS	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	96,360	96,360	11	62	0.062	0.683	544	5,984	28	0.028	0.308	245	2,698	0.38	3,286
2868	Orange County Correctional Facility	1		OFFICE 1	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	84	0.084	0.168	184	368	44	0.044	0.088	96	192	0.08	176

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2870	Orange County Correctional Facility	1		OFFICE 2	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	84	0.084	0.168	369	738	44	0.044	0.088	193	385	0.08	352
2872	Orange County Correctional Facility	1		OFFICE 3	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	84	0.084	0.168	613	1,226	44	0.044	0.088	320	641	0.08	585
2874	Orange County Correctional Facility	1		STORAGE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	61	0.061	0.366	534	3,206	44	0.044	0.264	385	2,313	0.10	894
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	61	0.061	0.366	534	3,206	44	0.044	0.264	385	2,313	0.10	894
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	61,320	61,320	7	61	0.061	0.427	534	3,741	44	0.044	0.308	385	2,698	0.12	1,042
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	227,760	227,760	26	61	0.061	1.586	534	13,893	44	0.044	1.144	385	10,021	0.44	3,872
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	227,760	227,760	26	61	0.061	1.586	534	13,893	44	0.044	1.144	385	10,021	0.44	3,872
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	289,080	289,080	33	61	0.061	2.013	534	17,634	44	0.044	1.452	385	12,720	0.56	4,914
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	70,080	70,080	8	61	0.061	0.488	534	4,275	44	0.044	0.352	385	3,084	0.14	1,191
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	43,800	43,800	5	61	0.061	0.305	534	2,672	44	0.044	0.220	385	1,927	0.09	745
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	61	0.061	0.366	534	3,206	44	0.044	0.264	385	2,313	0.10	894
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2875	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	105,120	105,120	12	61	0.061	0.732	534	6,412	44	0.044	0.528	385	4,625	0.20	1,787
2875	Orange County Correctional Facility	1		RESTROOM	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	8,760	17,520	17,520	2	100	0.100	0.200	876	1,752	23	0.023	0.046	201	403	0.15	1,349
2876	Orange County Correctional Facility	1		MEDIC ELECTRIC ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	61	0.061	0.000	534	0	44	0.044	0.000	385	0	0.00	0
2877	Orange County Correctional Facility	1		STORAGE/ DATA	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	61	0.061	0.000	534	0	44	0.044	0.000	385	0	0.00	0
2878	Orange County Correctional Facility	1		EDUCATION/ PROGRAMS	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	26,208	26,208	12	84	0.084	1.010	184	2,207	44	0.044	0.528	96	1,153	0.48	1,054
2879	Orange County Correctional Facility	1		RESTROOM (4)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	61	0.061	0.244	133	533	44	0.044	0.176	96	384	0.07	149
2880	Orange County Correctional Facility	1		STORAGE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2881	Orange County Correctional Facility	1		CLASSROOM 1	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	1,040	20,800	20,800	20	84	0.084	1.684	88	1,751	44	0.044	0.880	46	915	0.80	836
2882	Orange County Correctional Facility	1		CLASSROOM 2	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	34,944	34,944	16	84	0.084	1.347	184	2,942	44	0.044	0.704	96	1,538	0.64	1,405
2883	Orange County Correctional Facility	1		OFFICE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	10,192	10,192	4	84	0.084	0.337	215	858	44	0.044	0.176	112	448	0.16	410
2884	Orange County Correctional Facility	1		HALLWAY	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	28,028	28,028	11	62	0.062	0.683	158	1,741	28	0.028	0.308	71	785	0.38	956
2885	Orange County Correctional Facility	1		RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	35,040	35,040	4	61	0.061	0.244	534	2,137	44	0.044	0.176	385	1,542	0.07	596
2886	Orange County Correctional Facility	1		LOUNGE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	29,120	29,120	4	84	0.084	0.337	613	2,452	44	0.044	0.176	320	1,281	0.16	1,171
2887	Orange County Correctional Facility	1		BREAK ROOM	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	84	0.084	0.168	184	368	44	0.044	0.088	96	192	0.08	176
2888	Orange County Correctional Facility	1		ELECTRIC/ DATA	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2889	Orange County Correctional Facility	1		OFFICE 4	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	35,040	35,040	4	84	0.084	0.337	738	2,950	44	0.044	0.176	385	1,542	0.16	1,409
2891	Orange County Correctional Facility	1		OFFICE 3	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	84	0.084	0.168	184	368	44	0.044	0.088	96	192	0.08	176
2893	Orange County Correctional Facility	1		SEMINAR 2	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	5,096	5,096	2	84	0.084	0.168	215	429	44	0.044	0.088	112	224	0.08	205
2895	Orange County Correctional Facility	1		CLASS 4	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	58,240	58,240	8	84	0.084	0.674	613	4,904	44	0.044	0.352	320	2,563	0.32	2,341
2896	Orange County Correctional Facility	1		CLASS 4 CLOSET	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2897	Orange County Correctional Facility	1		CLASS 3	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	70,080	70,080	8	61	0.061	0.488	534	4,275	44	0.044	0.352	385	3,084	0.14	1,191
2898	Orange County Correctional Facility	1		CLASS 3 CLOSET	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
2899	Orange County Correctional Facility	1		OFFICE 2	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	84	0.084	0.168	613	1,226	44	0.044	0.088	320	641	0.08	585
2901	Orange County Correctional Facility	1		SEMINAR 1	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	84	0.084	0.168	613	1,226	44	0.044	0.088	320	641	0.08	585
2903	Orange County Correctional Facility	1		OFFICE 1	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	29,120	29,120	4	84	0.084	0.337	613	2,452	44	0.044	0.176	320	1,281	0.16	1,171

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2905	Orange County Correctional Facility	1		CLASSROOM 2	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	50,960	50,960	7	84	0.084	0.589	613	4,291	44	0.044	0.308	320	2,242	0.28	2,049
2905	Orange County Correctional Facility	1		CLASSROOM 2	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	84	0.084	0.084	613	613	44	0.044	0.044	320	320	0.04	293
2906	Orange County Correctional Facility	1		CLASSROOM 2 CLOSET	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2905	Orange County Correctional Facility	1		CLASSROOM 1	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	58,240	58,240	8	84	0.084	0.674	613	4,904	44	0.044	0.352	320	2,563	0.32	2,341
2905	Orange County Correctional Facility	1		CLASSROOM 1, closet	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
2907	Orange County Correctional Facility	1		3.511-1 ELECTRIC	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
2908	Orange County Correctional Facility	1		3.511 ELECTRIC	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2909	Orange County Correctional Facility	1		5 & 6 PENTHOUSE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	72,800	72,800	10	61	0.061	0.610	444	4,441	44	0.044	0.440	320	3,203	0.17	1,238
2910	Orange County Correctional Facility	1		GYM	400 Watt Metal Halide	Install a new 4' high bay fixture with wire guard, white reflector, a	2,912	58,240	58,240	20	455	0.455	9.100	1,325	26,499	218	0.218	4.360	635	12,696	4.74	13,803
2912	Orange County Correctional Facility	1		EXERCISE ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	111	0.111	0.222	807	1,613	44	0.044	0.088	320	641	0.13	973
2913	Orange County Correctional Facility	1		WEIGHT ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	26,280	26,280	6	111	0.111	0.665	485	2,912	44	0.044	0.264	193	1,156	0.40	1,756
2914	Orange County Correctional Facility	1		TREADMILL	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	43,680	43,680	6	111	0.111	0.665	807	4,840	44	0.044	0.264	320	1,922	0.40	2,918
2915	Orange County Correctional Facility	1		LOCKER ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	111	0.111	0.222	807	1,613	44	0.044	0.088	320	641	0.13	973
2916	Orange County Correctional Facility	1		RESTROOM (2)	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	13,140	13,140	3	111	0.111	0.332	485	1,456	44	0.044	0.132	193	578	0.20	878
2917	Orange County Correctional Facility	1		STORAGE	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	111	0.111	0.222	807	1,613	44	0.044	0.088	320	641	0.13	973
2918	Orange County Correctional Facility	1		E-1 CUSTODIAL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
2919	Orange County Correctional Facility	1		C ALL PURPOSE	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	7,280	123,760	123,760	17	62	0.062	1.056	452	7,685	40	0.040	0.680	291	4,950	0.38	2,735
2920	Orange County Correctional Facility	1		MEDICAL	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	84	0.084	0.168	369	738	44	0.044	0.088	193	385	0.08	352
2921	Orange County Correctional Facility	1		HAIR CARE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	84	0.084	0.168	613	1,226	44	0.044	0.088	320	641	0.08	585
2922	Orange County Correctional Facility	1		CANTEEN	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	8,760	8,760	2	84	0.084	0.168	369	738	44	0.044	0.088	193	385	0.08	352
2923	Orange County Correctional Facility	1		OFFICE 1	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	84	0.084	0.168	738	1,475	44	0.044	0.088	385	771	0.08	704
2924	Orange County Correctional Facility	1		OFFICE 2	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
2925	Orange County Correctional Facility	1		OFFICE 3	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
2926	Orange County Correctional Facility	1		OFFICE 4	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
2927	Orange County Correctional Facility	1		DATA	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
2928	Orange County Correctional Facility	1		MULTIPURPOSE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	43,800	43,800	5	84	0.084	0.421	738	3,688	44	0.044	0.220	385	1,927	0.20	1,761
2929	Orange County Correctional Facility	1		OFFICE 5	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	35,040	35,040	4	84	0.084	0.337	738	2,950	44	0.044	0.176	385	1,542	0.16	1,409
2930	Orange County Correctional Facility	1		STORAGE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2931	Orange County Correctional Facility	1		OFFICE 6	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	84	0.084	0.505	738	4,426	44	0.044	0.264	385	2,313	0.24	2,113
2932	Orange County Correctional Facility	1		STORAGE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2933	Orange County Correctional Facility	1		RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2933	Orange County Correctional Facility	1		RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2934	Orange County Correctional Facility	1		MULTIPURPOSE A	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	96,360	96,360	11	84	0.084	0.926	738	8,114	44	0.044	0.484	385	4,240	0.44	3,874
2934	Orange County Correctional Facility	1		MULTIPURPOSE A	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	8,760	8,760	1	62	0.062	0.062	544	544	40	0.040	0.040	350	350	0.02	194
2934	Orange County Correctional Facility	1		MULTIPURPOSE A	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2935	Orange County Correctional Facility	1		MULTIPURPOSE B	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	87,360	87,360	12	84	0.084	1.010	613	7,356	44	0.044	0.528	320	3,844	0.48	3,512
2935	Orange County Correctional Facility	1		MULTIPURPOSE B	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248
2935	Orange County Correctional Facility	1		C-Wing, penthouse	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	160,160	160,160	22	61	0.061	1.342	444	9,770	44	0.044	0.968	320	7,047	0.37	2,723
2936	Orange County Correctional Facility	1		C1 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	56,784	56,784	13	455	0.455	5.915	1,987	25,837	218	0.218	2.834	952	12,379	3.08	13,458
2937	Orange County Correctional Facility	1		C1 DORM OPEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	306,600	306,600	35	61	0.061	2.135	534	18,703	44	0.044	1.540	385	13,490	0.60	5,212
2938	Orange County Correctional Facility	1		C1 DORM MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	43,800	43,800	5	61	0.061	0.305	534	2,672	44	0.044	0.220	385	1,927	0.09	745
2939	Orange County Correctional Facility	1		C1 SHOWERS (7)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	50,960	50,960	7	28	0.028	0.196	204	1,427	20	0.020	0.140	146	1,019	0.06	408
2940	Orange County Correctional Facility	1		C1 STORAGE 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2941	Orange County Correctional Facility	1		C1 CUSTODIAL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2942	Orange County Correctional Facility	1		C1 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2943	Orange County Correctional Facility	1		C1 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
2944	Orange County Correctional Facility	1		C1 PIPE CHASE	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	2,184	61,152	61,152	28	100	0.100	2.800	218	6,115	23	0.023	0.644	50	1,406	2.16	4,709
2945	Orange County Correctional Facility	1		C1 56 CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	163,072	163,072	56	111	0.111	6.205	323	18,068	86	0.086	4.816	250	14,024	1.39	4,044
2946	Orange County Correctional Facility	1		C1 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2947	Orange County Correctional Facility	1		C2 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	56,784	56,784	13	455	0.455	5.915	1,987	25,837	218	0.218	2.834	952	12,379	3.08	13,458
2948	Orange County Correctional Facility	1		C2 DORM OPEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	306,600	306,600	35	61	0.061	2.135	534	18,703	44	0.044	1.540	385	13,490	0.60	5,212
2949	Orange County Correctional Facility	1		C2 DORM MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
2950	Orange County Correctional Facility	1		C2 SHOWERS (7)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	50,960	50,960	7	28	0.028	0.196	204	1,427	20	0.020	0.140	146	1,019	0.06	408
2951	Orange County Correctional Facility	1		C2 STORAGE 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2952	Orange County Correctional Facility	1		C2 CUSTODIAL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2953	Orange County Correctional Facility	1		C2 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2954	Orange County Correctional Facility	1		C2 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
2955	Orange County Correctional Facility	1		C2 PIPE CHASE	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	2,184	61,152	61,152	28	100	0.100	2.800	218	6,115	23	0.023	0.644	50	1,406	2.16	4,709
2956	Orange County Correctional Facility	1		C2 56 CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	163,072	163,072	56	111	0.111	6.205	323	18,068	86	0.086	4.816	250	14,024	1.39	4,044
2957	Orange County Correctional Facility	1		C2 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2958	Orange County Correctional Facility	1		C3 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	56,784	56,784	13	455	0.455	5.915	1,987	25,837	218	0.218	2.834	952	12,379	3.08	13,458
2959	Orange County Correctional Facility	1		C3 DORM OPEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	306,600	306,600	35	61	0.061	2.135	534	18,703	44	0.044	1.540	385	13,490	0.60	5,212
2960	Orange County Correctional Facility	1		C4 DORM MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
2961	Orange County Correctional Facility	1		C3 SHOWERS (7)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	50,960	50,960	7	28	0.028	0.196	204	1,427	20	0.020	0.140	146	1,019	0.06	408
2962	Orange County Correctional Facility	1		C3 STORAGE 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2963	Orange County Correctional Facility	1		C3 CUSTODIAL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2964	Orange County Correctional Facility	1		C3 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2965	Orange County Correctional Facility	1		C3 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
2966	Orange County Correctional Facility	1		C3 PIPE CHASE	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	2,184	61,152	61,152	28	100	0.100	2.800	218	6,115	23	0.023	0.644	50	1,406	2.16	4,709
2967	Orange County Correctional Facility	1		C3 56 CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	163,072	163,072	56	111	0.111	6.205	323	18,068	86	0.086	4.816	250	14,024	1.39	4,044
2968	Orange County Correctional Facility	1		C3 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2969	Orange County Correctional Facility	1		A1 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	56,784	56,784	13	455	0.455	5.915	1,987	25,837	218	0.218	2.834	952	12,379	3.08	13,458
2970	Orange County Correctional Facility	1		A1 DORM OPEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	306,600	306,600	35	61	0.061	2.135	534	18,703	44	0.044	1.540	385	13,490	0.60	5,212
2971	Orange County Correctional Facility	1		A1 DORM MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
2972	Orange County Correctional Facility	1		A1 SHOWERS (7)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	50,960	50,960	7	28	0.028	0.196	204	1,427	20	0.020	0.140	146	1,019	0.06	408
2973	Orange County Correctional Facility	1		A1 STORAGE 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2974	Orange County Correctional Facility	1		A1 CUSTODIAL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2975	Orange County Correctional Facility	1		A1 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2976	Orange County Correctional Facility	1		A1 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
2977	Orange County Correctional Facility	1		A1 PIPE CHASE	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	2,184	61,152	61,152	28	100	0.100	2.800	218	6,115	23	0.023	0.644	50	1,406	2.16	4,709
2978	Orange County Correctional Facility	1		A1 56 CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	163,072	163,072	56	111	0.111	6.205	323	18,068	86	0.086	4.816	250	14,024	1.39	4,044
2979	Orange County Correctional Facility	1		A1 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2980	Orange County Correctional Facility	1		A2 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	56,784	56,784	13	455	0.455	5.915	1,987	25,837	218	0.218	2.834	952	12,379	3.08	13,458
2981	Orange County Correctional Facility	1		A2 DORM OPEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	306,600	306,600	35	61	0.061	2.135	534	18,703	44	0.044	1.540	385	13,490	0.60	5,212
2982	Orange County Correctional Facility	1		A2 DORM MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	61	0.061	0.366	534	3,206	44	0.044	0.264	385	2,313	0.10	894
2983	Orange County Correctional Facility	1		A2 SHOWERS (7)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	50,960	50,960	7	28	0.028	0.196	204	1,427	20	0.020	0.140	146	1,019	0.06	408
2984	Orange County Correctional Facility	1		A2 STORAGE 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2985	Orange County Correctional Facility	1		A2 CUSTODIAL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2986	Orange County Correctional Facility	1		A2 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2987	Orange County Correctional Facility	1		A2 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
2988	Orange County Correctional Facility	1		A2 PIPE CHASE	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	2,184	61,152	61,152	28	100	0.100	2.800	218	6,115	23	0.023	0.644	50	1,406	2.16	4,709
2989	Orange County Correctional Facility	1		A2 56 CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	163,072	163,072	56	111	0.111	6.205	323	18,068	86	0.086	4.816	250	14,024	1.39	4,044
2990	Orange County Correctional Facility	1		A2 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
2991	Orange County Correctional Facility	1		A3 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	39,312	39,312	9	455	0.455	4.095	1,987	17,887	218	0.218	1.962	952	8,570	2.13	9,317
2991	Orange County Correctional Facility	1		A3 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	17,472	17,472	4	455	0.455	1.820	1,987	7,950	218	0.218	0.872	952	3,809	0.95	4,141
2992	Orange County Correctional Facility	1		A3 DORM OPEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2992	Orange County Correctional Facility	1		A3 DORM OPEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	297,840	297,840	34	61	0.061	2.074	534	18,168	44	0.044	1.496	385	13,105	0.58	5,063
2993	Orange County Correctional Facility	1		A3 DORM MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
2994	Orange County Correctional Facility	1		A3 SHOWERS (7)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	50,960	50,960	7	28	0.028	0.196	204	1,427	20	0.020	0.140	146	1,019	0.06	408
2995	Orange County Correctional Facility	1		A3 STORAGE 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2996	Orange County Correctional Facility	1		A3 CUSTODIAL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2997	Orange County Correctional Facility	1		A3 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
2998	Orange County Correctional Facility	1		A3 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
2999	Orange County Correctional Facility	1		A3 PIPE CHASE	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	2,184	41,496	41,496	19	100	0.100	1.900	218	4,150	23	0.023	0.437	50	954	1.46	3,195
2999	Orange County Correctional Facility	1		A3 PIPE CHASE	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	2,184	19,656	19,656	9	100	0.100	0.900	218	1,966	23	0.023	0.207	50	452	0.69	1,514
3000	Orange County Correctional Facility	1		A3 56 CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	163,072	163,072	56	111	0.111	6.205	323	18,068	86	0.086	4.816	250	14,024	1.39	4,044
3001	Orange County Correctional Facility	1		A3 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
3001	Orange County Correctional Facility	1		A3 SALLYPORT	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	35,040	35,040	4	62	0.062	0.248	544	2,176	28	0.028	0.112	245	981	0.14	1,195
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/ open area	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	113,880	113,880	13	62	0.062	0.807	544	7,072	28	0.028	0.364	245	3,189	0.44	3,883
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/ open area	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	62	0.062	0.000	544	0	28	0.028	0.000	245	0	0.00	0
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/ open area	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	62	0.062	0.000	544	0	28	0.028	0.000	245	0	0.00	0
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/ open area	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	62	0.062	0.186	544	1,632	28	0.028	0.084	245	736	0.10	896
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/ medical area	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	35,040	35,040	4	62	0.062	0.248	544	2,176	28	0.028	0.112	245	981	0.14	1,195
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/ Hair care	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	35,040	35,040	4	62	0.062	0.248	544	2,176	28	0.028	0.112	245	981	0.14	1,195
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Commissary	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	62	0.062	0.124	544	1,088	28	0.028	0.056	245	491	0.07	597
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/staff restroom (2)	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	62	0.062	0.124	544	1,088	28	0.028	0.056	245	491	0.07	597
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Toilet lobby	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	62	0.062	0.062	544	544	28	0.028	0.028	245	245	0.03	299
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Toilet (2)	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	62	0.062	0.124	544	1,088	28	0.028	0.056	245	491	0.07	597
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Janitor closet	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	0	0	0	62	0.062	0.000	544	0	28	0.028	0.000	245	0	0.00	0
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Office	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	62	0.062	0.124	544	1,088	28	0.028	0.056	245	491	0.07	597
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Staff break room	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	62	0.062	0.124	544	1,088	28	0.028	0.056	245	491	0.07	597
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Multipur B	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	111	0.111	0.665	971	5,824	44	0.044	0.264	385	2,313	0.40	3,511
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Multipur A	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	61,320	61,320	7	111	0.111	0.776	971	6,794	44	0.044	0.308	385	2,698	0.47	4,096
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Command office	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	35,040	35,040	4	111	0.111	0.443	971	3,882	44	0.044	0.176	385	1,542	0.27	2,341
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Office 1	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Office 2	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	84	0.084	0.168	738	1,475	44	0.044	0.088	385	771	0.08	704
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Office 3	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Office 4	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Office 5	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Office 6	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	111	0.111	0.332	971	2,912	44	0.044	0.132	385	1,156	0.20	1,756
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Office 7	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	70,080	70,080	8	111	0.111	0.886	971	7,765	44	0.044	0.352	385	3,084	0.53	4,681
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Office 8	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Office 9	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Interview A	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Back Office	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	35,040	35,040	4	61	0.061	0.244	534	2,137	44	0.044	0.176	385	1,542	0.07	596
3001	Orange County Correctional Facility	1		A wing penthouse / STA 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	192,720	192,720	22	61	0.061	1.342	534	11,756	44	0.044	0.968	385	8,480	0.37	3,276
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Command inner office	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Command, O storage	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Multipurpose A storage	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
3001	Orange County Correctional Facility	1		A3 SALLYPORT / A housing/Data Room	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
3002	Orange County Correctional Facility	1		D2 DORM DAYROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,368	48,048	48,048	11	61	0.061	0.671	266	2,931	44	0.044	0.484	192	2,114	0.19	817
3003	Orange County Correctional Facility	1		D2 DORM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	2,184	2,184	2,184	1	62	0.062	0.062	136	136	40	0.040	0.040	87	87	0.02	48
3004	Orange County Correctional Facility	1		D2 DORM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	30,576	30,576	14	61	0.061	0.854	133	1,865	44	0.044	0.616	96	1,345	0.24	520
3005	Orange County Correctional Facility	1		D2 DORM STORAGE (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	61,320	61,320	7	61	0.061	0.427	534	3,741	44	0.044	0.308	385	2,698	0.12	1,042
3006	Orange County Correctional Facility	1		D2 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
3007	Orange County Correctional Facility	1		D2 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
3008	Orange County Correctional Facility	1		D2 MULTIPURPOSE	2x2 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	12,740	12,740	5	61	0.061	0.305	155	777	44	0.044	0.220	112	561	0.09	217
3009	Orange County Correctional Facility	1		D2 SHOWERS (4)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	29,120	29,120	4	28	0.028	0.112	204	815	20	0.020	0.080	146	582	0.03	233
3010	Orange County Correctional Facility	1		D2 PIPE CHASE (14)	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	8,760	122,640	122,640	14	100	0.100	1.400	876	12,264	23	0.023	0.322	201	2,821	1.08	9,443
3011	Orange County Correctional Facility	1		D2 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
3012	Orange County Correctional Facility	1		D2 DORM CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	81,536	81,536	28	111	0.111	3.102	323	9,034	86	0.086	2.408	250	7,012	0.69	2,022
3013	Orange County Correctional Facility	1		D1 & D2 CONTROL ROOM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	8,760	70,080	70,080	8	62	0.062	0.497	544	4,352	40	0.040	0.320	350	2,803	0.18	1,549
3014	Orange County Correctional Facility	1		D1 & D2 CONTROL ROOM	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	7,280	36,400	36,400	5	100	0.100	0.500	728	3,640	23	0.023	0.115	167	837	0.39	2,803
3015	Orange County Correctional Facility	1		RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
3016	Orange County Correctional Facility	1		D1 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	48,048	48,048	11	455	0.455	5.005	1,987	21,862	218	0.218	2.398	952	10,474	2.61	11,387
3017	Orange County Correctional Facility	1		D1 DORM	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	2,184	2,184	2,184	1	62	0.062	0.062	136	136	40	0.040	0.040	87	87	0.02	48
3018	Orange County Correctional Facility	1		D1 DORM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	30,576	30,576	14	61	0.061	0.854	133	1,865	44	0.044	0.616	96	1,345	0.24	520
3019	Orange County Correctional Facility	1		D1 DORM STORAGE (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
3020	Orange County Correctional Facility	1		D1 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
3021	Orange County Correctional Facility	1		D1 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
3022	Orange County Correctional Facility	1		D1 MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	12,740	12,740	5	61	0.061	0.305	155	777	44	0.044	0.220	112	561	0.09	217
3023	Orange County Correctional Facility	1		D1 SHOWERS (4)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	29,120	29,120	4	28	0.028	0.112	204	815	20	0.020	0.080	146	582	0.03	233
3024	Orange County Correctional Facility	1		D1 PIPE CHASE (14)	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	8,760	122,640	122,640	14	100	0.100	1.400	876	12,264	23	0.023	0.322	201	2,821	1.08	9,443
3025	Orange County Correctional Facility	1		D1 DORM CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	72,800	72,800	25	111	0.111	2.770	323	8,066	86	0.086	2.150	250	6,261	0.62	1,805
3026	Orange County Correctional Facility	1		D3 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	30,576	30,576	7	455	0.455	3.185	1,987	13,912	218	0.218	1.526	952	6,666	1.66	7,247
3027	Orange County Correctional Facility	1		D3 DORM	400 Watt Metal Halide	Disconnect Existing System	2,184	2,184	2,184	1	455	0.455	0.455	994	994	0	0.000	0.000	0	0	0.46	994
3028	Orange County Correctional Facility	1		D3 DORM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	56,784	56,784	26	61	0.061	1.586	133	3,464	44	0.044	1.144	96	2,498	0.44	965
3029	Orange County Correctional Facility	1		D3 DORM STORAGE (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	43,800	43,800	5	61	0.061	0.305	534	2,672	44	0.044	0.220	385	1,927	0.09	745
3030	Orange County Correctional Facility	1		D3 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
3031	Orange County Correctional Facility	1		D3 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
3032	Orange County Correctional Facility	1		D3 MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	12,740	12,740	5	61	0.061	0.305	155	777	44	0.044	0.220	112	561	0.09	217
3033	Orange County Correctional Facility	1		D3 SHOWERS (4)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	29,120	29,120	4	28	0.028	0.112	204	815	20	0.020	0.080	146	582	0.03	233
3034	Orange County Correctional Facility	1		D3 PIPE CHASE (14)	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	8,760	122,640	122,640	14	100	0.100	1.400	876	12,264	23	0.023	0.322	201	2,821	1.08	9,443
3035	Orange County Correctional Facility	1		D3 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
3036	Orange County Correctional Facility	1		D3 DORM CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	81,536	81,536	28	111	0.111	3.102	323	9,034	86	0.086	2.408	250	7,012	0.69	2,022
3037	Orange County Correctional Facility	1		D4 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	30,576	30,576	7	455	0.455	3.185	1,987	13,912	218	0.218	1.526	952	6,666	1.66	7,247

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
3038	Orange County Correctional Facility	1		D4 DORM	400 Watt Metal Halide	Disconnect Existing System	2,184	2,184	2,184	1	455	0.455	0.455	994	994	0	0.000	0.000	0	0	0.46	994
3039	Orange County Correctional Facility	1		D4 DORM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	56,784	56,784	26	61	0.061	1.586	133	3,464	44	0.044	1.144	96	2,498	0.44	965
3040	Orange County Correctional Facility	1		D4 DORM STORAGE (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	43,800	43,800	5	61	0.061	0.305	534	2,672	44	0.044	0.220	385	1,927	0.09	745
3041	Orange County Correctional Facility	1		D4 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
3042	Orange County Correctional Facility	1		D4 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
3043	Orange County Correctional Facility	1		D4 MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	12,740	12,740	5	61	0.061	0.305	155	777	44	0.044	0.220	112	561	0.09	217
3044	Orange County Correctional Facility	1		D4 SHOWERS (4)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	29,120	29,120	4	28	0.028	0.112	204	815	20	0.020	0.080	146	582	0.03	233
3045	Orange County Correctional Facility	1		D4 PIPE CHASE (14)	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	8,760	122,640	122,640	14	100	0.100	1.400	876	12,264	23	0.023	0.322	201	2,821	1.08	9,443
3046	Orange County Correctional Facility	1		D4 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
3047	Orange County Correctional Facility	1		D4 DORM CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	81,536	81,536	28	111	0.111	3.102	323	9,034	86	0.086	2.408	250	7,012	0.69	2,022
3047	Orange County Correctional Facility	1		D4 DORM CELLS	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	26,208	26,208	9	84	0.084	0.758	245	2,207	44	0.044	0.396	128	1,153	0.36	1,054
3047	Orange County Correctional Facility	1		D4 DORM CELLS	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	11,648	11,648	4	62	0.062	0.248	181	723	28	0.028	0.112	82	326	0.14	397
3047	Orange County Correctional Facility	1		MEDICAL ROOM	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	5,824	5,824	2	84	0.084	0.168	245	490	44	0.044	0.088	128	256	0.08	234
3047	Orange County Correctional Facility	1		HAIR CARE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	5,824	5,824	2	84	0.084	0.168	245	490	44	0.044	0.088	128	256	0.08	234
3047	Orange County Correctional Facility	1		COMMISSARY	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	5,824	5,824	2	84	0.084	0.168	245	490	44	0.044	0.088	128	256	0.08	234
3047	Orange County Correctional Facility	1		office 1	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	5,824	5,824	2	111	0.111	0.222	323	645	44	0.044	0.088	128	256	0.13	389
3047	Orange County Correctional Facility	1		office 2	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	5,824	5,824	2	111	0.111	0.222	323	645	44	0.044	0.088	128	256	0.13	389
3047	Orange County Correctional Facility	1		office 3	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	5,824	5,824	2	111	0.111	0.222	323	645	44	0.044	0.088	128	256	0.13	389
3047	Orange County Correctional Facility	1		office 4	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	5,824	5,824	2	111	0.111	0.222	323	645	44	0.044	0.088	128	256	0.13	389
3047	Orange County Correctional Facility	1			2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	11,648	11,648	4	61	0.061	0.244	178	711	44	0.044	0.176	128	513	0.07	198
3047	Orange County Correctional Facility	1		Janitor closet	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	2,912	2,912	1	61	0.061	0.061	178	178	44	0.044	0.044	128	128	0.02	50
3047	Orange County Correctional Facility	1		Restroom ?	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	2,912	2,912	1	61	0.061	0.061	178	178	44	0.044	0.044	128	128	0.02	50
3047	Orange County Correctional Facility	1			2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	5,824	5,824	2	61	0.061	0.122	178	355	44	0.044	0.088	128	256	0.03	99
3047	Orange County Correctional Facility	1		D4 DORM CELLS	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	5,824	5,824	2	61	0.061	0.122	178	355	44	0.044	0.088	128	256	0.03	99
3047	Orange County Correctional Facility	1			1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	2,912	2,912	1	61	0.061	0.061	178	178	44	0.044	0.044	128	128	0.02	50
3047	Orange County Correctional Facility	1		COMMAND OFFICE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	14,560	14,560	5	84	0.084	0.421	245	1,226	44	0.044	0.220	128	641	0.20	585
3047	Orange County Correctional Facility	1		Comm o. rest room	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	2,912	2,912	1	61	0.061	0.061	178	178	44	0.044	0.044	128	128	0.02	50
3047	Orange County Correctional Facility	1		Comm o. storage room	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	5,824	5,824	2	61	0.061	0.122	178	355	44	0.044	0.088	128	256	0.03	99
3047	Orange County Correctional Facility	1			1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	2,912	2,912	1	61	0.061	0.061	178	178	44	0.044	0.044	128	128	0.02	50
3047	Orange County Correctional Facility	1		multi purpose area A	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	26,208	26,208	9	111	0.111	0.997	323	2,904	44	0.044	0.396	128	1,153	0.60	1,751
3047	Orange County Correctional Facility	1		multit purpose A storage	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	2,912	2,912	1	61	0.061	0.061	178	178	44	0.044	0.044	128	128	0.02	50
3047	Orange County Correctional Facility	1		multi purpose area B	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	26,208	26,208	9	111	0.111	0.997	323	2,904	44	0.044	0.396	128	1,153	0.60	1,751
3047	Orange County Correctional Facility	1		multit purpose B storage	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	2,912	2,912	1	111	0.111	0.111	323	323	86	0.086	0.086	250	250	0.02	72
3047	Orange County Correctional Facility	1		restroom	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	2,912	2,912	1	61	0.061	0.061	178	178	44	0.044	0.044	128	128	0.02	50
3047	Orange County Correctional Facility	1		D - Wing Penthouse	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	58,240	58,240	20	111	0.111	2.216	323	6,453	86	0.086	1.720	250	5,009	0.50	1,444
3047	Orange County Correctional Facility	1		North Hall, D Housing, Storage	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,912	2,912	2,912	1	61	0.061	0.061	178	178	44	0.044	0.044	128	128	0.02	50
3048	Orange County Correctional Facility	1		B1 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	56,784	56,784	13	455	0.455	5.915	1,987	25,837	218	0.218	2.834	952	12,379	3.08	13,458
3049	Orange County Correctional Facility	1		B1 DORM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	291,200	291,200	40	61	0.061	2.440	444	17,763	44	0.044	1.760	320	12,813	0.68	4,950
3050	Orange County Correctional Facility	1		B1 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	13,140	13,140	3	61	0.061	0.183	267	802	44	0.044	0.132	193	578	0.05	223
3051	Orange County Correctional Facility	1		B1 STORAGE 3	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	36,400	36,400	5	61	0.061	0.305	444	2,220	44	0.044	0.220	320	1,602	0.09	619
3052	Orange County Correctional Facility	1		B1 MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	26,280	26,280	6	61	0.061	0.366	267	1,603	44	0.044	0.264	193	1,156	0.10	447
3053	Orange County Correctional Facility	1		B1 PIPE CHASE	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	7,280	247,520	247,520	34	100	0.100	3.400	728	24,752	23	0.023	0.782	167	5,693	2.62	19,059
3054	Orange County Correctional Facility	1		B1 SHOWERS (7)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	50,960	50,960	7	28	0.028	0.196	204	1,427	20	0.020	0.140	146	1,019	0.06	408
3055	Orange County Correctional Facility	1		B1 RESTROOMS	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	61	0.061	0.122	444	888	44	0.044	0.088	320	641	0.03	248

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
3056	Orange County Correctional Facility	1		B1 CELLS 60	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	195,104	195,104	67	111	0.111	7.424	323	21,618	86	0.086	5.762	250	16,779	1.66	4,839
3057	Orange County Correctional Facility	1		B2 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	61,152	61,152	14	455	0.455	6.370	1,987	27,824	218	0.218	3.052	952	13,331	3.32	14,493
3058	Orange County Correctional Facility	1		B2 DORM OPEN	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	306,600	306,600	35	61	0.061	2.135	534	18,703	44	0.044	1.540	385	13,490	0.60	5,212
3059	Orange County Correctional Facility	1		B2 DORM MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	43,800	43,800	5	61	0.061	0.305	534	2,672	44	0.044	0.220	385	1,927	0.09	745
3060	Orange County Correctional Facility	1		B2 SHOWERS (7)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	50,960	50,960	7	28	0.028	0.196	204	1,427	20	0.020	0.140	146	1,019	0.06	408
3061	Orange County Correctional Facility	1		B2 STORAGE 1	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
3062	Orange County Correctional Facility	1		B2 CUSTODIAL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
3063	Orange County Correctional Facility	1		B2 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	8,760	8,760	1	61	0.061	0.061	534	534	44	0.044	0.044	385	385	0.02	149
3064	Orange County Correctional Facility	1		B2 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
3065	Orange County Correctional Facility	1		B2 PIPE CHASE	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	2,184	61,152	61,152	28	100	0.100	2.800	218	6,115	23	0.023	0.644	50	1,406	2.16	4,709
3066	Orange County Correctional Facility	1		B2 56 CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	163,072	163,072	56	111	0.111	6.205	323	18,068	86	0.086	4.816	250	14,024	1.39	4,044
3067	Orange County Correctional Facility	1		B2 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
3068	Orange County Correctional Facility	1		B3 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	39,312	39,312	9	455	0.455	4.095	1,987	17,887	218	0.218	1.962	952	8,570	2.13	9,317
3069	Orange County Correctional Facility	1		B3 DORM	400 Watt Metal Halide	Disconnect Existing System	2,184	0	0	0	455	0.455	0.000	994	0	0	0.000	0.000	0	0	0.00	0
3070	Orange County Correctional Facility	1		B3 DORM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	56,784	56,784	26	61	0.061	1.586	133	3,464	44	0.044	1.144	96	2,498	0.44	965
3071	Orange County Correctional Facility	1		B3 DORM STORAGE (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	43,800	43,800	5	61	0.061	0.305	534	2,672	44	0.044	0.220	385	1,927	0.09	745
3072	Orange County Correctional Facility	1		B3 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
3073	Orange County Correctional Facility	1		B3 SALLYPORT	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
3074	Orange County Correctional Facility	1		B3 MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,548	5,096	5,096	2	61	0.061	0.122	155	311	44	0.044	0.088	112	224	0.03	87
3075	Orange County Correctional Facility	1		B3 SHOWERS (4)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	21,840	21,840	3	28	0.028	0.084	204	612	20	0.020	0.060	146	437	0.02	175
3076	Orange County Correctional Facility	1		B3 PIPE CHASE (14)	100 Watt Inc	Re-lamp with a new 23 watt dimmable compact fluorescent lamp	8,760	122,640	122,640	14	100	0.100	1.400	876	12,264	23	0.023	0.322	201	2,821	1.08	9,443
3077	Orange County Correctional Facility	1		B3 RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
3078	Orange County Correctional Facility	1		B3 DORM CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	81,536	81,536	28	111	0.111	3.102	323	9,034	86	0.086	2.408	250	7,012	0.69	2,022
3079	Orange County Correctional Facility	1		B4 DORM DAYROOM	400 Watt Metal Halide	Install a new 4' recessed prismatic fixture, (2) 3 lamp high power	4,368	39,312	39,312	9	455	0.455	4.095	1,987	17,887	218	0.218	1.962	952	8,570	2.13	9,317
3080	Orange County Correctional Facility	1		B4 COUNSELING ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	4,380	4,380	1	61	0.061	0.061	267	267	44	0.044	0.044	193	193	0.02	74
3081	Orange County Correctional Facility	1		B4 RESTROOM (2)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	7,280	7,280	1	61	0.061	0.061	444	444	44	0.044	0.044	320	320	0.02	124
3082	Orange County Correctional Facility	1		B4 STORAGE (3)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	21,900	21,900	5	61	0.061	0.305	267	1,336	44	0.044	0.220	193	964	0.09	372
3083	Orange County Correctional Facility	1		B4 SHOWERS (4)	1x2 1 Lamp U-Bend T8	Retrofit with a 1 lamp high performance normal power instant sta	7,280	29,120	29,120	4	28	0.028	0.112	204	815	20	0.020	0.080	146	582	0.03	233
3084	Orange County Correctional Facility	1		B4 DORM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	160,160	160,160	22	61	0.061	1.342	444	9,770	44	0.044	0.968	320	7,047	0.37	2,723
3085	Orange County Correctional Facility	1		B4 CELLS	1x4 4 Lamp T8	Retrofit with a 4 lamp high performance low power instant start e	2,912	93,184	93,184	32	111	0.111	3.546	323	10,325	86	0.086	2.752	250	8,014	0.79	2,311
3086	Orange County Correctional Facility	1		B4 STAIRWELL	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
3087	Orange County Correctional Facility	1		B4 PIPE CHASE	100 Watt Inc	Re-lamp with a new 23 watt compact fluorescent lamp.	4,380	70,080	70,080	16	100	0.100	1.600	438	7,008	23	0.023	0.368	101	1,612	1.23	5,396
3088	Orange County Correctional Facility	1		B4 MULTIPURPOSE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	21,840	21,840	3	61	0.061	0.183	444	1,332	44	0.044	0.132	320	961	0.05	371
2888	Orange County Correctional Facility	1		B-HOUSING, OPEN AREA	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	26,208	26,208	12	62	0.062	0.745	136	1,628	28	0.028	0.336	61	734	0.41	894
2888	Orange County Correctional Facility	1		MEDICAL ROOM	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	84	0.084	0.337	184	736	44	0.044	0.176	96	384	0.16	351
2888	Orange County Correctional Facility	1		B-HOUSING / HAIR CARE	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	84	0.084	0.337	184	736	44	0.044	0.176	96	384	0.16	351
2888	Orange County Correctional Facility	1		COMMISSARY	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	84	0.084	0.168	184	368	44	0.044	0.088	96	192	0.08	176
2888	Orange County Correctional Facility	1		BATHROOM (4)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	61	0.061	0.244	133	533	44	0.044	0.176	96	384	0.07	149
2888	Orange County Correctional Facility	1		OFFICE 1	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	111	0.111	0.222	242	484	44	0.044	0.088	96	192	0.13	292
2888	Orange County Correctional Facility	1		OFFICE 2	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	111	0.111	0.222	242	484	44	0.044	0.088	96	192	0.13	292
2888	Orange County Correctional Facility	1		OFFICE 3	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	111	0.111	0.443	242	968	44	0.044	0.176	96	384	0.27	584
2888	Orange County Correctional Facility	1		OFFICE & STORAGE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	4,368	4,368	2	61	0.061	0.122	133	266	44	0.044	0.088	96	192	0.03	74
2888	Orange County Correctional Facility	1		MULTIPURPOSE ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	19,656	19,656	9	111	0.111	0.997	242	2,178	44	0.044	0.396	96	865	0.60	1,313
2888	Orange County Correctional Facility	1		MULTIPURPOSE STORAGE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37

Lighting As-Built Detail

Location Data								Existing Measure								Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings
2888	Orange County Correctional Facility	1		STORAGE ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	19,656	19,656	9	111	0.111	0.997	242	2,178	44	0.044	0.396	96	865	0.60	1,313
2888	Orange County Correctional Facility	1		STORAGE ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2888	Orange County Correctional Facility	1		COMMAND OFFICE	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	61	0.061	0.244	133	533	44	0.044	0.176	96	384	0.07	149
2888	Orange County Correctional Facility	1		OFFICES	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	8,736	8,736	4	111	0.111	0.443	242	968	44	0.044	0.176	96	384	0.27	584
2888	Orange County Correctional Facility	1		B WING / PENT HOUSE	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	15,288	15,288	7	61	0.061	0.427	133	933	44	0.044	0.308	96	673	0.12	260
2888	Orange County Correctional Facility	1		B housing, Penthouse	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	26,208	26,208	12	61	0.061	0.732	133	1,599	44	0.044	0.528	96	1,153	0.20	446
2888	Orange County Correctional Facility	1		North Hall, electrical room (209)	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
2888	Orange County Correctional Facility	1		North Hall, storage /data room	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	2,184	2,184	2,184	1	61	0.061	0.061	133	133	44	0.044	0.044	96	96	0.02	37
3089	Orange County Correctional Facility	1		MENTAL HEALTH	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	4,380	100,740	100,740	23	62	0.062	1.428	272	6,256	28	0.028	0.644	123	2,821	0.78	3,435
3090	Orange County Correctional Facility	1		MENTAL HEALTH OFFICE 1	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	111	0.111	0.222	807	1,613	44	0.044	0.088	320	641	0.13	973
3092	Orange County Correctional Facility	1		MENTAL HEALTH FILE ROOM	2x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	61	0.061	0.183	534	1,603	44	0.044	0.132	385	1,156	0.05	447
3093	Orange County Correctional Facility	1		PRIVATE RESTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298
3094	Orange County Correctional Facility	1		MENTAL HEALTH OFFICE 2	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3096	Orange County Correctional Facility	1		MENTAL HEALTH OFFICE 3	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3098	Orange County Correctional Facility	1		MENTAL HEALTH OFFICE 4	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3100	Orange County Correctional Facility	1		MENTAL HEALTH OFFICE 5	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3102	Orange County Correctional Facility	1		MENTAL HEALTH OFFICE 6	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	111	0.111	0.222	971	1,941	44	0.044	0.088	385	771	0.13	1,170
3104	Orange County Correctional Facility	1		MENTAL HEALTH OFFICE 7	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	7,280	14,560	14,560	2	111	0.111	0.222	807	1,613	44	0.044	0.088	320	641	0.13	973
3106	Orange County Correctional Facility	1		MENTAL HEALTH OFFICE 8	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	26,280	26,280	3	111	0.111	0.332	971	2,912	44	0.044	0.132	385	1,156	0.20	1,756
3108	Orange County Correctional Facility	1		ALL PURPOSE ROOM	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	52,560	52,560	6	111	0.111	0.665	971	5,824	44	0.044	0.264	385	2,313	0.40	3,511
3110	Orange County Correctional Facility	1		BREAK ROOM	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	61,320	61,320	7	84	0.084	0.589	738	5,163	44	0.044	0.308	385	2,698	0.28	2,465
	Orange County Correctional Facility											456.894		2,455,783			247.123		1,274,324	209.77	1,181,459	
3111	Orange County Courthouse	EX T		PERIMETER WALLS	100 Watt Inc	Install a new wall pack fixture, with (1) 28 watt compact fluoresce	4,380	52,560	52,560	12	100	0.100	1.200	438	5,256	28	0.028	0.336	123	1,472	0.86	3,784
3112	Orange County Courthouse	3	CORR	CORRIDOR MAIN	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	6,205	6,205	6,205	1	84	0.084	0.084	522	522	44	0.044	0.044	273	273	0.04	249
3113	Orange County Courthouse	3	CORR	CORRIDOR MAIN	26 Watt CFL	No Retrofit	6,205	0	0	0	27	0.027	0.000	168	0	27	0.027	0.000	168	0	0.00	0
3114	Orange County Courthouse	3	CORR	CORRIDOR MAIN	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	198,560	198,560	32	56	0.056	1.792	347	11,119	17	0.017	0.544	105	3,376	1.25	7,744
3115	Orange County Courthouse	3	CORR	CORRIDOR MAIN	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
3116	Orange County Courthouse	3	CORR	CORRIDOR JUDGES	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	124,100	124,100	20	72	0.072	1.440	447	8,935	28	0.028	0.560	174	3,475	0.88	5,460
3117	Orange County Courthouse	3	CORR	CORRIDOR JUDGES	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
3119	Orange County Courthouse	3	CORR	CORRIDOR PRIVATE	26 Watt CFL	No Retrofit	6,205	0	0	0	27	0.027	0.000	168	0	27	0.027	0.000	168	0	0.00	0
3120	Orange County Courthouse	3	CORR	CORRIDOR PRIVATE	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	68,255	68,255	11	56	0.056	0.616	347	3,822	17	0.017	0.187	105	1,160	0.43	2,662
3121	Orange County Courthouse	3	CORR	CORRIDOR PRIVATE	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
3122	Orange County Courthouse	3	ELEV	ELEVATOR #6	50 Watt Inc	Re-lamp with a new 12 watt LED lamp, R20 reflector.	8,760	148,920	148,920	17	50	0.050	0.850	438	7,446	8	0.008	0.136	70	1,191	0.71	6,255
3123	Orange County Courthouse	2	CORR	CORRIDOR	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	192,355	192,355	31	56	0.056	1.736	347	10,772	17	0.017	0.527	105	3,270	1.21	7,502
3124	Orange County Courthouse	2	CORR	CORRIDOR	26 Watt CFL	No Retrofit	6,205	0	0	0	27	0.027	0.000	168	0	27	0.027	0.000	168	0	0.00	0
3125	Orange County Courthouse	2	CORR	CORRIDOR	2 Watt LED Exit Sign	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
3126	Orange County Courthouse	2	CORR	MECHANICAL ROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	6,205	0	0	0	61	0.061	0.000	379	0	44	0.044	0.000	273	0	0.00	0
3127	Orange County Courthouse	2	OFF	CORRIDOR FAMILY COURT DIV OFFICES	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	93,075	93,075	15	72	0.072	1.080	447	6,701	28	0.028	0.420	174	2,606	0.66	4,095
3128	Orange County Courthouse	2	CORR	CORRIDOR FAMILY COURT DIV	2 Watt LED Exit Sign	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
3129	Orange County Courthouse	2	CORR	CORRIDOR ENTRANCE	2x26 Watt CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	6,205	6,205	1	56	0.056	0.056	347	347	28	0.028	0.028	174	174	0.03	174
3130	Orange County Courthouse	2	CORR	CORRIDOR ENTRANCE	26 Watt CFL	No Retrofit	6,205	0	0	0	27	0.027	0.000	168	0	27	0.027	0.000	168	0	0.00	0
3131	Orange County Courthouse	2	CORR	CORRIDOR ENTRANCE	26 Watt CFL	No Retrofit	6,205	0	0	0	27	0.027	0.000	168	0	27	0.027	0.000	168	0	0.00	0
3132	Orange County Courthouse	2	CORR	JUDGES CORRIDOR COURT ROOM	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	192,355	192,355	31	72	0.072	2.232	447	13,850	28	0.028	0.868	174	5,386	1.36	8,464
3133	Orange County Courthouse	2	CORR	JUDGES CORRIDOR COURT ROOM	2 Watt LED Exit Sign	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0

Lighting As-Built Detail

Location Data							Existing Measure										Proposed Measure					Total Savings	
Line #	Building	Floor	Room Type	Location Description	Existing Fixture Description	Proposed Fixture Description	Annual Hours	Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh	Total kW Saved	Total kWh Savings	
3134	Orange County Courthouse	2	CORR	PRIVATE HALL CORRIDOR JUDGES	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	74,460	74,460	12	56	0.056	0.672	347	4,170	17	0.017	0.204	105	1,266	0.47	2,904	
3135	Orange County Courthouse	2	CORR	CORRIDOR JUDGES	26 Watt CFL	No Retrofit	6,205	0	0	0	27	0.027	0.000	168	0	27	0.027	0.000	168	0	0.00	0	
3136	Orange County Courthouse	2		COURT HALL PUBLIC	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	49,640	49,640	8	56	0.056	0.448	347	2,780	17	0.017	0.136	105	844	0.31	1,936	
3137	Orange County Courthouse	2		COURT HALL PUBLIC	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	471,580	471,580	76	56	0.056	4.256	347	26,408	17	0.017	1.292	105	8,017	2.96	18,392	
3138	Orange County Courthouse	2	COMM	ELEVATOR LOBBY	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	74,460	74,460	12	56	0.056	0.672	347	4,170	17	0.017	0.204	105	1,266	0.47	2,904	
3139	Orange County Courthouse	2	CORR	CORRIDOR	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	148,920	148,920	24	56	0.056	1.344	347	8,340	17	0.017	0.408	105	2,532	0.94	5,808	
3140	Orange County Courthouse	2	CORR	CORRIDOR	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	37,230	37,230	6	56	0.056	0.336	347	2,085	17	0.017	0.102	105	633	0.23	1,452	
3141	Orange County Courthouse	2	CORR	CORRIDOR	Soda Vending Machine	No Retrofit	8,760	0	0	0	427	0.427	0.000	3,741	0	427	0.427	0.000	3,741	0	0.00	0	
3143	Orange County Courthouse	3	COMM	ELEVATOR 4 EAST-LOBBY 3RD FL COURTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	105,120	105,120	12	61	0.061	0.732	534	6,412	44	0.044	0.528	385	4,625	0.20	1,787	
3144	Orange County Courthouse	3	CORR	ELEVATOR 3 WEST-CORRIDOR #3	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298	
3145	Orange County Courthouse	3	CORR	ELEVATOR 3 WEST-CORRIDOR #3	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	6,205	62,050	62,050	10	61	0.061	0.610	379	3,785	44	0.044	0.440	273	2,730	0.17	1,055	
3146	Orange County Courthouse	2	CORR	ELEVATOR 3 WEST-CORRIDOR #2	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	17,520	17,520	2	61	0.061	0.122	534	1,069	44	0.044	0.088	385	771	0.03	298	
3147	Orange County Courthouse	2	CORR	ELEVATOR 3 WEST-CORRIDOR #2	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	6,205	18,615	18,615	3	61	0.061	0.183	379	1,136	44	0.044	0.132	273	819	0.05	316	
3148	Orange County Courthouse	2	COMM	ELEVATOR 4 WEST-LOBBY COURTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	6,205	12,410	12,410	2	61	0.061	0.122	379	757	44	0.044	0.088	273	546	0.03	211	
3149	Orange County Courthouse	2	COMM	ELEVATOR 4 WEST-LOBBY COURTROOM	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	6,205	18,615	18,615	3	61	0.061	0.183	379	1,136	44	0.044	0.132	273	819	0.05	316	
3150	Orange County Courthouse	1	CORR	CORRIDOR DETENTION	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	8,760	280,320	280,320	32	61	0.061	1.952	534	17,100	44	0.044	1.408	385	12,334	0.54	4,765	
3151	Orange County Courthouse	1	CORR	CORRIDOR MAIN	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
3152	Orange County Courthouse	1	ELEV	ELEVATOR #4	150 Watt Inc	Re-lamp with a new 23 watt compact fluorescent lamp.	8,760	52,560	52,560	6	150	0.150	0.900	1,314	7,884	23	0.023	0.138	201	1,209	0.76	6,675	
3153	Orange County Courthouse	1	ELEV	ELEVATOR #3	150 Watt Inc	Re-lamp with a new 23 watt compact fluorescent lamp.	8,760	52,560	52,560	6	150	0.150	0.900	1,314	7,884	23	0.023	0.138	201	1,209	0.76	6,675	
3154	Orange County Courthouse	1	CORR	CORRIDOR STAIRWELL #3	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
3155	Orange County Courthouse	1	CORR	CORRIDOR MAINT. TOOL ROOM	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	12,410	12,410	2	72	0.072	0.144	447	894	28	0.028	0.056	174	347	0.09	546	
3156	Orange County Courthouse	1	SW	LOBBY STAIRWELL #3	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	55,845	55,845	9	72	0.072	0.648	447	4,021	28	0.028	0.252	174	1,564	0.40	2,457	
3157	Orange County Courthouse	1	SW	LOBBY STAIRWELL #3	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	12,410	12,410	2	56	0.056	0.112	347	695	17	0.017	0.034	105	211	0.08	484	
3158	Orange County Courthouse	1	CORR	CORRIDOR 1153-1156	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
3159	Orange County Courthouse	1	CORR	CORRIDOR 1153-1156	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	93,075	93,075	15	72	0.072	1.080	447	6,701	28	0.028	0.420	174	2,606	0.66	4,095	
3160	Orange County Courthouse	1	COMM	ELEVATOR LOBBY #6	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	80,665	80,665	13	72	0.072	0.936	447	5,808	28	0.028	0.364	174	2,259	0.57	3,549	
3161	Orange County Courthouse	1	COMM	ELEVATOR LOBBY #6	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
3162	Orange County Courthouse	1	COMM	ELEVATOR LOBBY #6	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	6,205	6,205	1	56	0.056	0.056	347	347	17	0.017	0.017	105	105	0.04	242	
3163	Orange County Courthouse	1	CORR	CORRIDOR 1106-1110	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	68,255	68,255	11	72	0.072	0.792	447	4,914	28	0.028	0.308	174	1,911	0.48	3,003	
3164	Orange County Courthouse	1	CORR	CORRIDOR 1106-1110	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
3165	Orange County Courthouse	1	CORR	CORRIDOR 1141-1111	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	31,025	31,025	5	72	0.072	0.360	447	2,234	28	0.028	0.140	174	869	0.22	1,365	
3166	Orange County Courthouse	1	CORR	CORRIDOR 1141-1111	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	24,820	24,820	4	56	0.056	0.224	347	1,390	17	0.017	0.068	105	422	0.16	968	
3167	Orange County Courthouse	1	CORR	CORRIDOR 1141-1111	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
3168	Orange County Courthouse	1		JURY HALL	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	68,255	68,255	11	72	0.072	0.792	447	4,914	28	0.028	0.308	174	1,911	0.48	3,003	
3169	Orange County Courthouse	1		JURY HALL	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	12,410	12,410	2	56	0.056	0.112	347	695	17	0.017	0.034	105	211	0.08	484	
3170	Orange County Courthouse	1	COMM	ELEVATOR #5 LOBBY	2x40 Biax CFL	Install a new 2x2 9 Cell parabolic recessed prismatic fixture, 2 la	6,205	24,820	24,820	4	72	0.072	0.288	447	1,787	28	0.028	0.112	174	695	0.18	1,092	
3171	Orange County Courthouse	1	COMM	ELEVATOR #5 LOBBY	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
3172	Orange County Courthouse	1	CORR	CORRIDOR MAIN	1x8 2 4'Lamps T8	Retrofit with a 2 lamp high performance low power instant start e	6,205	322,660	322,660	52	61	0.061	3.172	379	19,682	44	0.044	2.288	273	14,197	0.88	5,485	
3173	Orange County Courthouse	1	CORR	CORRIDOR MAIN	2 Watt LED Exit Sign, Edge Lit	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0	
3174	Orange County Courthouse	1	CORR	CORRIDOR MAIN	2x26 Watt CFL	Install a new 15 watt LED 8" recessed can fixture	6,205	297,840	297,840	48	56	0.056	2.688	347	16,679	17	0.017	0.816	105	5,063	1.87	11,616	
3175	Orange County Courthouse	1	CORR	CORRIDOR MAIN	100 Watt Metal Halide, Recessed	No Retrofit	6,205	0	0	0	128	0.128	0.000	794	0	128	0.128	0.000	794	0	0.00	0	
3176	Orange County Courthouse	EX T		COURTHOUSE FLAG POLES	100 Watt Metal Halide, Parabolic	No Retrofit	4,380	0	0	0	128	0.128	0.000	561	0	128	0.128	0.000	561	0	0.00	0	
3177	Orange County Courthouse	EX T		COACH ROADWAYS	175 Watt Metal Halide	Retrofit with a 100 watt metal halide pulse start lighting system.	4,380	43,800	43,800	10	200	0.200	2.000	876	8,760	118	0.118	1.180	517	5,168	0.82	3,592	
3178	Orange County Courthouse	EX T		PARKING LOT	250 Watt Metal Halide, Pole	No Retrofit	4,380	0	0	0	295	0.295	0.000	1,292	0	295	0.295	0.000	1,292	0	0.00	0	

Lighting As-Built Detail

Line #	Location Data				Existing Fixture Description	Proposed Fixture Description	Annual Hours	Existing Measure		Existing Measure					Proposed Measure					Total kW Saved	Total kWh Savings	
	Building	Floor	Room Type	Location Description				Total Line Hours EMCALC	Total Line Hours PMCALC	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh			Proposed Total kWh
3444	DPW Administration	1	OFF	Office 104 Kim	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	21,840	21,840	6	62	0.062	0.373	226	1,356	52	0.052	0.312	189	1,136	0.06	221
3446	DPW Administration	1	OFF	Office Across From 104	2x2 2 Lamp U-Bend T8	Retrofit with a 3 lamp high performance low power instant start e	3,640	32,760	32,760	9	62	0.062	0.559	226	2,034	40	0.040	0.360	146	1,310	0.20	724
3448	DPW Administration	1		Copy Room	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	7,280	7,280	2	111	0.111	0.222	403	807	44	0.044	0.088	160	320	0.13	486
3450	DPW Administration	1	OFF	Office 101 Main Reception	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	21,840	21,840	6	111	0.111	0.665	403	2,420	44	0.044	0.264	160	961	0.40	1,459
3451	DPW Administration	1	RR	Restroom Women	90 Watt Inc	Install a new 4' wide wrap fixture, 2 lamp high performance low p	5,000	5,000	5,000	1	90	0.090	0.090	450	450	44	0.044	0.044	220	220	0.05	230
3452	DPW Administration	1	RR	Restroom Women	1x4 1 Lamp T8	Retrofit with a 1 lamp high performance low power instant start e	5,000	5,000	5,000	1	31	0.031	0.031	154	154	22	0.022	0.022	110	110	0.01	44
3453	DPW Administration	1	RR	Restroom Women	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	5,000	5,000	5,000	1	111	0.111	0.111	554	554	44	0.044	0.044	220	220	0.07	334
3455	DPW Administration	1	RR	Restroom Men	1x4 1 Lamp T8	Retrofit with a 1 lamp high performance low power instant start e	5,000	5,000	5,000	1	31	0.031	0.031	154	154	22	0.022	0.022	110	110	0.01	44
3456	DPW Administration	1	RR	Restroom Men	90 Watt Inc	Install a new 4' wide wrap fixture, 2 lamp high performance low p	5,000	10,000	10,000	2	90	0.090	0.180	450	900	44	0.044	0.088	220	440	0.09	460
3457	DPW Administration	1	UT	Utility Custodial	90 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	1,040	2,080	2,080	2	90	0.090	0.180	94	187	20	0.020	0.040	21	42	0.14	146
3458	DPW Administration	1	OFF	Office 103	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	21,840	21,840	6	111	0.111	0.665	403	2,420	44	0.044	0.264	160	961	0.40	1,459
3459	DPW Administration	1	OFF	Office 102	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	14,560	14,560	4	111	0.111	0.443	403	1,613	44	0.044	0.176	160	641	0.27	973
3460	DPW Administration	1	OFF	Office 105	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	43,680	43,680	12	111	0.111	1.330	403	4,840	44	0.044	0.528	160	1,922	0.80	2,918
3461	DPW Administration	1	KIT	Kitchenette	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	3,640	3,640	1	111	0.111	0.111	403	403	44	0.044	0.044	160	160	0.07	243
3463	DPW Administration	1	OFF	Office 106	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	21,840	21,840	6	111	0.111	0.665	403	2,420	44	0.044	0.264	160	961	0.40	1,459
3465	DPW Administration	1		Hallway 1st Floor	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	5,000	40,000	40,000	8	111	0.111	0.886	554	4,432	44	0.044	0.352	220	1,760	0.53	2,672
3467	DPW Administration	1		Hallway 1st Floor	2 Watt LED Exit Sign	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
3468	DPW Administration	B	SW	Stairwell to Credit Union	90 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	5,000	15,000	15,000	3	90	0.090	0.270	450	1,350	20	0.020	0.060	100	300	0.21	1,050
3469	DPW Administration	B		Room 17	2x4 4 Lamp T12	Retrofit with a 2 lamp high performance low power instant start e	3,640	7,280	7,280	2	160	0.160	0.320	582	1,165	44	0.044	0.088	160	320	0.23	844
3471	DPW Administration	B		Room 17 Rear	1x8 2 8'Lamps T12	Install a new 8' standard wrap fixture, 2 lamp low power instant s	1,040	1,040	1,040	1	123	0.123	0.123	128	128	44	0.044	0.044	46	46	0.08	82
3472	DPW Administration	B		Telephone Room	1x8 2 8'Lamps T12	Install a new 8' standard wrap fixture, 2 lamp low power instant s	1,040	2,080	2,080	2	123	0.123	0.246	128	256	44	0.044	0.088	46	92	0.16	164
3473	DPW Administration	B		Vault	1x8 2 8'Lamps T12	Install a new 8' standard wrap fixture, 2 lamp low power instant s	1,200	6,000	6,000	5	123	0.123	0.615	148	738	44	0.044	0.220	53	264	0.40	474
3473	DPW Administration	B		Vault	1x4 2 Lamp T12	Install a new 4' standard wrap fixture, 1 lamp low power instant s	1,200	2,400	2,400	2	72	0.072	0.144	87	173	22	0.022	0.044	26	53	0.10	120
3474	DPW Administration	B		Credit Union	2x4 3 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	21,840	21,840	6	84	0.084	0.505	306	1,839	44	0.044	0.264	160	961	0.24	878
3474	DPW Administration	B		Room 16	90 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	3,640	14,560	14,560	4	90	0.090	0.360	328	1,310	20	0.020	0.080	73	291	0.28	1,019
3475	DPW Administration	B	RR	Restroom Private	1x4 1 Lamp T8	No Retrofit	1,040	0	0	0	31	0.031	0.000	32	0	30	0.030	0.000	31	0	0.00	0
3477	DPW Administration	B	RR	Restroom Private	90 Watt Inc	Re-lamp with a new 15 watt electronic compact fluorescent globe	1,040	1,040	1,040	1	90	0.090	0.090	94	94	15	0.015	0.015	16	16	0.08	78
3479	DPW Administration	B		Boiler Room	90 Watt Inc	Re-lamp with a new 18 watt electronic compact fluorescent lamp	5,000	15,000	15,000	3	90	0.090	0.270	450	1,350	20	0.020	0.060	100	300	0.21	1,050
3481	DPW Administration	B		Boiler Room	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	10,920	10,920	3	61	0.061	0.183	222	666	44	0.044	0.132	160	480	0.05	186
3483	DPW Administration	B	BRK	Break Room	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	10,920	10,920	3	62	0.062	0.186	226	678	52	0.052	0.156	189	568	0.03	110
3484	DPW Administration	B	OFF	OPEN OFFICE	2x2 2 Lamp U-Bend T8	Retrofit with a 2 lamp high performance low power instant start e	5,000	50,000	50,000	10	62	0.062	0.621	311	3,105	52	0.052	0.520	260	2,600	0.10	505
3486	DPW Administration	B		Building & Grounds	1x4 2 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	3,640	3,640	1	61	0.061	0.061	222	222	44	0.044	0.044	160	160	0.02	62
3487	DPW Administration	B		Room 14	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	14,560	14,560	4	111	0.111	0.443	403	1,613	44	0.044	0.176	160	641	0.27	973
3489	DPW Administration	B	OFF	Office Open Area	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	14,560	14,560	4	111	0.111	0.443	403	1,613	44	0.044	0.176	160	641	0.27	973
3490	DPW Administration	B	OFF	Office Open Area	1x4 1 Lamp T8	Retrofit with a 1 lamp high performance low power instant start e	5,000	10,000	10,000	2	31	0.031	0.062	154	308	22	0.022	0.044	110	220	0.02	88
3491	DPW Administration	B		Room 10	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	7,280	7,280	2	111	0.111	0.222	403	807	44	0.044	0.088	160	320	0.13	486
3492	DPW Administration	B		Room 10	90 Watt Inc	Re-lamp with a new 19 watt compact fluorescent lamp R40 reflex	750	2,250	2,250	3	90	0.090	0.270	68	203	19	0.019	0.057	14	43	0.21	160
3493	DPW Administration	B	COMM	Reception Area	2x4 4 Lamp T8	Retrofit with a 2 lamp high performance low power instant start e	3,640	10,920	10,920	3	111	0.111	0.332	403	1,210	44	0.044	0.132	160	480	0.20	729
3494	DPW Administration	B	COMM	Reception Area	2x2 2 Lamp U-Bend T12	Retrofit with a 2 lamp high performance low power instant start e	3,640	3,640	3,640	1	83	0.083	0.083	300	300	28	0.028	0.028	102	102	0.05	198
3495	DPW Administration	B		Hallway Basement	2 Watt LED Exit Sign	No Retrofit	8,760	0	0	0	2	0.002	0.000	18	0	2	0.002	0.000	18	0	0.00	0
3496	DPW Administration	B		Hallway Basement	1x4 1 Lamp T8	Retrofit with a 1 lamp high performance low power instant start e	5,000	35,000	35,000	7	31	0.031	0.216	154	1,078	22	0.022	0.154	110	770	0.06	308
3497	DPW Administration	B		Hallway Basement	90 Watt Inc	Re-lamp with a new 13 watt electronic compact fluorescent lamp	5,000	20,000	20,000	4	90	0.090	0.360	450	1,800	15	0.015	0.060	75	300	0.30	1,500
3497	DPW Administration	EX T		Front Entry	100 Watt Inc	Re-lamp with a new 23 watt compact fluorescent lamp.	4,380	8,760	8,760	2	100	0.100	0.200	438	876	23	0.023	0.046	101	201	0.15	675
3497	DPW Administration	EX T		Front Wall	150 Watt High Pressure Sodium, Flood	No Retrofit	4,380	0	0	0	188	0.188	0.000	823	0	188	0.188	0.000	823	0	0.00	0

Lighting As-Built Detail

1841 Building & Annex

Line #	Location Data				Location Data & ECM Code										Existing Measure					Proposed Measure					Total kW Saved	Total kWh Savings					
	Building	Floor	MAP	Location Square Feet	Hvac	BI Level Switching	Measure d foot Candles	Room Type	Location Description	Height	LRI Existing	LRI Proposed	Notes	Control ID	Controlled by	Hours Code	Annual Hours	Existing QTY	Existing Watts	Existing Unit kW	Existing Total kW	Existing Unit kWh	Existing Total kWh	Propose d QTY			Proposed Watts	Proposed Unit kW	Proposed Total kW	Proposed Unit kWh	Proposed Total kWh
3198	OLD Court House	2		310	Yes	Yes	25	OFC	OLD Court Room	18	1434	CF3X32PENDANT	Need Scaffolding		NR	4	3,000	12	136	0.136	1,632	408	4,896	6	110	0.110	0.660	330	1,080	0.97	2,916
3199	OLD Court House	2		310	Yes	Yes	25	OFC	OLD Court Room	8	KLED	KLED-BB-FE	Replace LED Exits with New LED Exits with Frog Eyes		NR	1	8,760	3	2	0.002	0.006	18	53	3	2	0.002	0.006	18	53	0.00	0
3199.1	OLD Court House	2		310	Yes	Yes	25	OFC	OLD Court Room	12	EMLIGHTS	REMOVE	Remove Existing Emergency Battery Operated Fixtures		NR	8	0	2	0	0.000	0.000	0	0	2	0	0.000	0.000	0	0	0.00	0
3199.2	OLD Court House	2		310	Yes	Yes	25	OFC	OLD Court Room	12	ADD	FANS			NR	8	0	0	0	0.000	0.000	0	0	3	0	0.000	0.000	0	0	0.00	0
3200	OLD Court House	2		449	Yes	No	25	OFC	OLD Court Room	18	I25	CF3X32PENDANT	Replace Existing 8 x I25 with New Pendant 3x32		NR	4	3,000	8	25	0.025	0.200	75	600	1	110	0.110	0.110	330	330	0.09	270
3201	OLD Court House	2							UTILITY- STORAGE		1444	LP1424WWR	SURFACE		NR	2	1,040	1	140	0.140	0.140	146	146	1	44	0.044	0.044	46	46	0.10	100
3202	OLD Court House	2							RESTROOM MEN		I80	CF18	KEYLESS		NR	4	3,000	1	80	0.080	0.080	180	180	1	20	0.020	0.020	60	60	0.04	120
3203	OLD Court House	2							RESTROOM WOMEN		I80	CF18	KEYLESS		NR	4	3,000	1	80	0.080	0.080	180	180	1	20	0.020	0.020	60	60	0.04	120
3204	OLD Court House	2							UTILITY-STORAGE IN STAIRWELL		1444	LP1424WWR	ESTIMATE		NR	2	1,040	4	140	0.140	0.560	146	582	4	44	0.044	0.176	46	183	0.38	399
3205	OLD Court House	2							UTILITY- REAR STORAGE		1424T8	LP24T2	SURFACE		NR	2	1,040	2	81	0.061	0.122	83	127	1	86	0.086	0.086	89	89	0.04	37
3206	OLD Court House	2							OFFICE		2444	LP2424K	SURFACE BOX		OSW-1G	4	3,000	2	144	0.144	0.288	432	864	2	44	0.044	0.088	132	264	0.20	600
3208	OLD Court House	SW							BACK STAIRWELL		1424	LP1414WWR	SURFACE		NR	7	7,280	2	70	0.070	0.140	510	1,019	2	22	0.022	0.044	160	320	0.10	699
3209	OLD Court House	2		156	Yes	Yes	25	COR	Front Stairwell	18	1444	CF3X32PENDANT	Need Scaffolding		NR	7	7,280	1	140	0.140	0.140	1,019	1,019	1	110	0.110	0.110	801	801	0.03	218
3210	OLD Court House	1		55	No	No	26	UT	Entrance	8	1424	CF3X18FLUSH	Install New Flush Mount Fixture		NR	7	7,280	1	70	0.070	0.070	510	510	1	80	0.080	0.080	437	437	0.01	73
3211	OLD Court House	1		160	Yes	No	76	OFC	Hallway	12	1444	CF3X18FLUSH	Install New Flush Mount Fixture		NR	7	7,280	4	140	0.140	0.560	1,019	4,077	4	80	0.080	0.240	437	1,747	0.32	2,330
3211.1	OLD Court House	1		256	Yes	No	85	OFC	Hallway	9	KLED-FE	KLED-BB-FE	Eyes with New LED Exits with Frog Eyes		NR	1	8,760	1	2	0.002	0.002	18	18	1	2	0.002	0.002	18	18	0.00	0
3211.2	OLD Court House	1		132	Yes	No	70	CLR	Basement Entrance	7	KLED-FE	KLED-BB-FE	Eyes with New LED Exits with Frog Eyes		NR	1	8,760	1	2	0.002	0.002	18	18	1	2	0.002	0.002	18	18	0.00	0
3212	OLD Court House	1							GENEOLOGICAL SOCIETY		1434	LP1824WWR	PENDANT		NR	4	3,000	4	136	0.136	0.544	408	1,632	2	41	0.041	0.082	123	246	0.46	1,386
3213	OLD Court House	1							GENEOLOGICAL SOCIETY		1424	LP24T2	PENDANT		NR	4	3,000	4	70	0.070	0.280	210	840	2	86	0.086	0.172	258	516	0.11	324
3214	OLD Court House	1							BREAK ROOM		1844	LP1824SWR	PENDANT		OSW-1G	4	3,000	1	140	0.140	0.140	420	420	1	41	0.041	0.041	123	123	0.10	297
3216	OLD Court House	1							RESTROOM ENTRY		I80	CF18	RECESSED		NR	4	3,000	1	80	0.080	0.080	180	180	1	20	0.020	0.020	60	60	0.04	120
3217	OLD Court House	1							RESTROOM MEN		I80	CF18	RECESSED		NR	4	3,000	2	80	0.080	0.120	180	360	2	20	0.020	0.040	60	120	0.08	240
3218	OLD Court House	1							RESTROOM WOMEN		I80	CF18	RECESSED		NR	4	3,000	2	80	0.080	0.120	180	360	2	20	0.020	0.040	60	120	0.08	240
3219	OLD Court House	1							COPY ROOM		1424	LP1824WWR	PENDANT		OSW-1G	4	3,000	2	70	0.070	0.140	210	420	1	41	0.041	0.041	123	123	0.10	297
3221	OLD Court House	1							HISTORY LIBRARY		1424	LP1824WWR	PENDANT		FMS-120	4	3,000	2	70	0.070	0.140	210	420	1	41	0.041	0.041	123	123	0.10	297
3223	OLD Court House	1							OFFICE- CHARLES LEWIS		1424	LP1824WWR	PENDANT		FMS-120	4	3,000	2	70	0.070	0.140	210	420	1	41	0.041	0.041	123	123	0.10	297
3225	OLD Court House	1							OFFICE- COUNTY HISTORIAN		1424	LP1414WWR	PENDANT, NEEDS THE LIGHT		OSW-1G	4	3,000	2	70	0.070	0.140	210	420	2	22	0.022	0.044	66	132	0.10	288
3227	OLD Court House	1							OFFICE- COUNTY HISTORIAN #2		1424	LP1414WWR	PENDANT, NEEDS THE LIGHT		NR	4	3,000	2	70	0.070	0.140	210	420	2	22	0.022	0.044	66	132	0.10	288
3229	OLD Court House	1							PRIVATE RESTROOM		I120	LP1414WWR	PENDANT, NEEDS THE LIGHT		NR	4	3,000	1	120	0.120	0.120	360	360	1	22	0.022	0.022	66	66	0.10	294
3230	OLD Court House	1							TYPOGRAPHIC MAP ROOM		1424	LP1414WWR	PENDANT, NEEDS THE LIGHT		NR	4	3,000	2	70	0.070	0.140	210	420	2	22	0.022	0.044	66	132	0.10	288
3232	OLD Court House	B							UTILITY- MAINTENANCE AREA		1424	LP1414WWR	VERY LOW HRS		NR	7	7,280	6	70	0.070	0.420	510	3,058	6	22	0.022	0.132	160	961	0.29	2,097
3233	OLD Court House	B							UTILITY- MAINTENANCE AREA		I100	CF23			NR	2	1,040	15	100	0.100	1,500	104	1,560	15	23	0.023	0.345	24	359	1.16	1,201
3234	OLD Court House	B							UTILITY- BOILER ROOM		I150	LP1824SWR			NR	2	1,040	2	150	0.150	0.300	156	312	2	41	0.041	0.082	43	85	0.22	227
3235	OLD Court House	B							UTILITY- BOILER ROOM		1828	LP1824SWR			NR	6	6,205	1	123	0.123	0.123	763	763	1	41	0.041	0.041	254	254	0.08	509
3236	OLD Court House	SW							BASEMENT STAIRS		1424T8	LP24			NR	7	7,280	1	81	0.061	0.061	444	444	1	44	0.044	0.044	320	320	0.02	124
3237	OLD Court House	EXT							FRONT ENTRANCE		I150	CF23	14' HGT		NR	7	7,280	1	150	0.150	0.150	1,092	1,092	1	23	0.023	0.023	167	167	0.13	925
3238	OLD Court House	EXT							REAR PARKING		S400	M250FY	26' HGT		NR	5	4,380	2	460	0.460	0.920	2,015	4,030	2	295	0.295	0.590	1,292	2,584	0.33	1,445
3239	OLD Court House Annex	1							CONSERVATION AFFAIRS		2444	LP2424K			NR	4	3,000	2	144	0.144	0.288	432	864	2	44	0.044	0.088	132	264	0.20	600
3240	OLD Court House Annex	1							CONSERVATION AFFAIRS		2444	LP2424KT2			NR	4	3,000	8	144	0.144	1,152	432	3,456	4	80	0.080	0.344	258	1,032	0.81	2,424
3241	OLD Court House Annex	1							RESTROOM		222UT8	LP2222K			NR	3	2,184	1	61	0.061	0.061	133	133	1	27	0.027	0.027	59	59	0.03	74
3242	OLD Court House Annex	1							OFFICE #1		2444	LP2424K			NR	4	3,000	2	144	0.144	0.288	432	864	2	44	0.044	0.088	132	264	0.20	600
3244	OLD Court House Annex	1							OFFICE- WATER AUTHORITY (2)		2444	LP2424K	ESTIMATE NO ACCESS		NR	4	3,000	8	144	0.144	1,152	432	3,456	8	44	0.044	0.352	132	1,056	0.80	2,400
3246	OLD Court House Annex	1							CORRIDOR		1444	LP1424WWR	FIXTURES IN BAD SHAPE		NR	7	7,280	2	140	0.140	0.280	1,019	2,038	2	44	0.044	0.088	320	641	0.19	1,398
3247	OLD Court House Annex	1							BREAK ROOM		2444	LP2424K			NR	4	3,000	3	144	0.144	0.432	432	1,2								

Occupancy Sensors As-Built Detail

Location Data											Controlling					
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
3412	DPW Administration	OFF	Office- Pat Kennedy	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	3,640	1,092	4	44	0.044	0.176	48	192
3414	DPW Administration	OFF	Office 201B	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	3,640	1,092	4	44	0.044	0.176	48	192
3416	DPW Administration	OFF	Office Engineering	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	3,640	1,092	6	44	0.044	0.264	48	288
3418	DPW Administration	CONF	Office 202 Conference	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	3,640	1,092	6	44	0.044	0.264	48	288
3420	DPW Administration	KIT	Kitchenette	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	3,640	1,092	3	44	0.044	0.132	48	144
3422	DPW Administration	0	Print Room	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	3,640	1,092	3	44	0.044	0.132	48	144
3425	DPW Administration	OFF	Office 204A	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	3,640	1,092	6	44	0.044	0.264	48	288
3427	DPW Administration	0	File/ Print Room 106	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	3,640	1,092	6	44	0.044	0.264	48	288
3430	DPW Administration	0	Copy Room	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,640	1,092	1	44	0.044	0.044	48	48
3433	DPW Administration	RR	Restroom Men	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP1424WWR	1	1	30%	5,000	1,500	1	44	0.044	0.044	66	66
3438	DPW Administration	OFF	Deputy Commissioners Office	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2U	1	1	30%	3,640	1,092	6	52	0.052	0.312	57	341
3442	DPW Administration	OFF	Commissioner's Office in 104	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2U	1	1	30%	3,640	1,092	9	52	0.052	0.468	57	511
3444	DPW Administration	OFF	Office 104 Kim	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2U	1	1	30%	3,640	1,092	6	52	0.052	0.312	57	341
3446	DPW Administration	OFF	Office Across From 104	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2232K	1	1	30%	3,640	1,092	9	40	0.040	0.360	44	393
3448	DPW Administration	0	Copy Room	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	0	0	30%	3,640	1,092	2	44	0.044	0.088	48	96
3453	DPW Administration	RR	Restroom Women	Install a new line voltage wall mounted passive infrared lighting control system. (2-gang)	LP2424K	1		30%	5,000	1,500	1	44	0.044	0.044	66	66
3455	DPW Administration	RR	Restroom Men	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP14	1	1	30%	5,000	1,500	1	22	0.022	0.022	33	33
3461	DPW Administration	KIT	Kitchenette	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1		30%	3,640	1,092	1	44	0.044	0.044	48	48
3463	DPW Administration	OFF	Office 106	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	3,640	1,092	6	44	0.044	0.264	48	288
3465	DPW Administration	0	Hallway 1st Floor	Install a new low voltage ceiling mounted dual technology lighting control system (3 heads)	LP2424K	0	0	30%	5,000	1,500	8	44	0.044	0.352	66	528
3469	DPW Administration	0	Room 17	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	3,640	1,092	2	44	0.044	0.088	48	96
3472	DPW Administration	0	Telephone Room	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP1824SWR	0	0	30%	1,040	312	2	44	0.044	0.088	14	27
3475	DPW Administration	RR	Restroom Private	No Retrofit Existing Wall Sensor	NR1414T8	1	1	30%	1,040	312	0	30	0.030	0.000	9	0
3477	DPW Administration	RR	Restroom Private	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	CF19GLOBE	1	1	30%	1,040	312	1	15	0.015	0.015	5	5

Occupancy Sensors As-Built Detail

Location Data											Controlling					
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
3479	DPW Administration	0	Boiler Room	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	CF18	0	0	30%	5,000	1,500	3	20	0.020	0.060	30	90
3481	DPW Administration	0	Boiler Room	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	0	0	30%	3,640	1,092	3	44	0.044	0.132	48	144
3484	DPW Administration	OFF	OPEN OFFICE	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2U	0	0	30%	5,000	1,500	10	52	0.052	0.520	78	780
3487	DPW Administration	0	Room 14	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	3,640	1,092	4	44	0.044	0.176	48	192
3491	DPW Administration	0	Room 10	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	3,640	1,092	2	44	0.044	0.088	48	96
	DPW Administration Total													5.193		6,016
161	Maple Building	OFF	CENTER OFFICE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	3,000	900	4	44	0.044	0.176	40	158
181	Maple Building	RR	RESTROOM PRIVATE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2222K	1	1	30%	6,205	1,862	1	28	0.028	0.028	52	52
183	Maple Building	RR	RESTROOM PRIVATE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2222K	1	1	30%	6,205	1,862	1	28	0.028	0.028	52	52
185	Maple Building	UT	UTILITY ELECTRICAL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	2	44	0.044	0.088	82	164
187	Maple Building	UT	UTILITY PHONE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
209	Maple Building	OFF	OFFICE OPEN AREA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	2	44	0.044	0.088	40	79
211	Maple Building	OFF	OFFICE OPEN AREA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	0	0	30%	3,000	900	0	44	0.044	0.000	40	0
215	Maple Building	OFF	OFFICE OPEN AREA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	4	40	0.040	0.160	36	144
216	Maple Building	OFF	OFFICE OPEN AREA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	0	0	30%	3,000	900	13	44	0.044	0.572	40	515
223	Maple Building	BRK	BREAK ROOM	Install a new vending miser control unit.	NRVENDING-SNACK	1	1	33%	8,760	2,891	0	0	0.000	0.000	0	0
225	Maple Building	BRK	BREAK ROOM	Install a new vending miser control unit.	NRVENDING-SODA	1	1	30%	8,760	2,628	0	427	0.427	0.000	1,122	0
227	Maple Building	UT	UTILITY ELECTRICAL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
229	Maple Building	UT	UTILITY DATA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
233	Maple Building	RR	RESTROOM MENS	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP22	1	1	30%	6,205	1,862	1	27	0.027	0.027	50	50
235	Maple Building	RR	RESTROOM WOMENS	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	3	44	0.044	0.132	82	246
238	Maple Building	UT	UTILITY STORAGE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	CF18	1		30%	6,205	1,862	1	20	0.020	0.020	37	37
243	Maple Building	UT	UTILITY ELECTRICAL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	2		30%	6,205	1,862	2	44	0.044	0.088	82	164
246	Maple Building	UT	UTILITY PHONE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82

Occupancy Sensors As-Built Detail

Location Data											Controlling					
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
248	Maple Building	OFF	OFFICE VACANT OPEN AREA	Install a new low voltage ceiling mounted dual technology lighting control system (2 heads)	LP2424K	1		30%	1,040	312	11	44	0.044	0.484	14	151
256	Maple Building	CONF	CONFERENCE ROOM- COPPOLA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	1,560	468	2	44	0.044	0.088	21	41
258	Maple Building	OFF	OFFICE- COPPOLA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	3,000	900	2	44	0.044	0.088	40	79
260	Maple Building	OFF	OFFICE- COPPOLA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	3,000	900	2	44	0.044	0.088	40	79
262	Maple Building	UT	UTILITY STORAGE- COPPOLA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
267	Maple Building	COMM	OPEN AREA- COPPOLA	Install a new low voltage ceiling mounted dual technology lighting control system (2 heads)	LP2424K	1	1	30%	1,040	312	4	44	0.044	0.176	14	55
277	Maple Building	OFF	OFFICE TRAINING	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2232TGR	1		30%	3,000	900	6	40	0.040	0.240	36	216
280	Maple Building	OFF	OFFICE DCR ROOM	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
283	Maple Building	OFF	VACANT AREA OPEN OFFICE 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	0	0	30%	3,000	900	3	40	0.040	0.120	36	108
285	Maple Building	OFF	VACANT AREA OPEN OFFICE 2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	3	40	0.040	0.120	36	108
287	Maple Building	OFF	VACANT AREA OPEN OFFICE 3	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	3	40	0.040	0.120	36	108
289	Maple Building	OFF	VACANT AREA OPEN OFFICE 4	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	3	40	0.040	0.120	36	108
291	Maple Building	OFF	VACANT AREA OPEN OFFICE 5	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	3	40	0.040	0.120	36	108
293	Maple Building	OFF	VACANT AREA OPEN OFFICE 6	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	3	40	0.040	0.120	36	108
295	Maple Building	OFF	Court Room VACANT AREA OPEN OFFICE 7	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2232K	1	1	30%	3,000	900	3	40	0.040	0.120	36	108
297	Maple Building	OFF	Center VACANT AREA OPEN OFFICE 8	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	3	40	0.040	0.120	36	108
298	Maple Building	COMM	Center VACANT AREA OPEN OFFICE 9	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1		30%	3,000	900	3	40	0.040	0.120	36	108
299	Maple Building	COMM	COLLEGE OPEN AREA	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2232K	4	4	30%	3,000	900	3	40	0.040	0.120	36	108
300	Maple Building	CONF	COLLEGE CONFERENCE ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	6	40	0.040	0.240	36	216
302	Maple Building	BRK	COLLEGE BREAK ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	2	40	0.040	0.080	36	72
304	Maple Building	0	COLLEGE COPY ROOM	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2232K	1	1	30%	3,000	900	6	40	0.040	0.240	36	216
307	Maple Building	OFF	COLLEGE OFFICE 207	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	4	40	0.040	0.160	36	144
309	Maple Building	OFF	COLLEGE OFFICE 227	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	2	40	0.040	0.080	36	72
311	Maple Building	OFF	COLLEGE OFFICE 208	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	4	40	0.040	0.160	36	144

Occupancy Sensors As-Built Detail

Location Data											Controlling					
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
313	Maple Building	OFF	COLLEGE OFFICE 209	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	4	40	0.040	0.160	36	144
315	Maple Building	CONF	COLLEGE CONFERENCE ROOM 210	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2232K	1	1	30%	3,000	900	9	40	0.040	0.360	36	324
317	Maple Building	OFF	COLLEGE OFFICE 211	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	4	40	0.040	0.160	36	144
319	Maple Building	OFF	COLLEGE OFFICE 212	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	4	40	0.040	0.160	36	144
321	Maple Building	OFF	COLLEGE OFFICE 213	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2232K	1	1	30%	3,000	900	3	40	0.040	0.120	36	108
323	Maple Building	OFF	COLLEGE OFFICE 214	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	2	40	0.040	0.080	36	72
325	Maple Building	OFF	COLLEGE OFFICE 215	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	2	40	0.040	0.080	36	72
327	Maple Building	OFF	COLLEGE OFFICE 216	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	3	40	0.040	0.120	36	108
329	Maple Building	OFF	COLLEGE OFFICE 217	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	2	40	0.040	0.080	36	72
331	Maple Building	OFF	COLLEGE OFFICE 218	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	2	40	0.040	0.080	36	72
333	Maple Building	OFF	COLLEGE OFFICE 219	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	2	40	0.040	0.080	36	72
335	Maple Building	OFF	COLLEGE OFFICE 220	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	2	40	0.040	0.080	36	72
337	Maple Building	OFF	COLLEGE OFFICE 221	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	2	40	0.040	0.080	36	72
339	Maple Building	STRG	COLLEGE STORAGE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2222K	1	1	30%	3,000	900	1	28	0.028	0.028	25	25
341	Maple Building	0	COLLEGE SERVER 223	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2222K	1	1	30%	8,760	2,628	2	28	0.028	0.056	74	147
343	Maple Building	STRG	COLLEGE STORAGE 224	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2222K	1	1	30%	3,000	900	1	28	0.028	0.028	25	25
351	Maple Building	UT	UTILITY ELECTRICAL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	1,040	312	2	44	0.044	0.088	14	27
353	Maple Building	UT	UTILITY DATA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	1,040	312	1	44	0.044	0.044	14	14
357	Maple Building	BRK	BREAK ROOM	Install a new low voltage ceiling mounted dual technology lighting control system (2 heads)	LP24	1		30%	5,000	1,500	10	44	0.044	0.440	66	660
360	Maple Building	RR	RESTROOM MENS	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
362	Maple Building	RR	RESTROOM WOMENS	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
364	Maple Building	OFF	OFFICE INFORMATION	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
366	Maple Building	OFF	OFFICE WIC	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	4	44	0.044	0.176	40	158
368	Maple Building	OFF	OFFICE QIC	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1		30%	3,000	900	2	44	0.044	0.088	40	79

Occupancy Sensors As-Built Detail

Location Data											Controlling					
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
370	Maple Building	OFF	OFFICE SOCIAL SERVICES	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
372	Maple Building	OFF	OFFICE HIV DEPT	Install a new low voltage ceiling mounted dual technology lighting control system (2 heads)	LP24	1		30%	3,000	900	10	44	0.044	0.440	40	396
375	Maple Building	CONF	CONFERENCE ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	1,560	468	4	44	0.044	0.176	21	82
377	Maple Building	OFF	OFFICE 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	2	44	0.044	0.088	40	79
379	Maple Building	OFF	OFFICE 2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1		30%	3,000	900	1	44	0.044	0.044	40	40
381	Maple Building	OFF	OFFICE 3	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
383	Maple Building	OFF	OFFICE 4	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
385	Maple Building	OFF	OFFICE 5	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
387	Maple Building	OFF	OFFICE 6	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	2	44	0.044	0.088	40	79
389	Maple Building	0	LABORATORY	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	4	44	0.044	0.176	40	158
393	Maple Building	EXAM	EXAM ROOM 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
395	Maple Building	EXAM	EXAM ROOM 2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
397	Maple Building	EXAM	EXAM ROOM 3	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
399	Maple Building	EXAM	EXAM ROOM 4	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
401	Maple Building	EXAM	EXAM ROOM 5	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
403	Maple Building	OFF	OFFICE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
405	Maple Building	RR	RESTROOM PRIVATE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
407	Maple Building	OFF	OFFICE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
409	Maple Building	0	NURSES STATION	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
411	Maple Building	OFF	OFFICE NUTRITIONIST	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
413	Maple Building	RR	HALLWAY RESTROOM MENS	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24T2	1	1	30%	6,205	1,862	1	86	0.086	0.086	160	160
422	Maple Building	OFF	OFFICE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
424	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
426	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40

Occupancy Sensors As-Built Detail

Location Data											Controlling					
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
428	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
430	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
432	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
434	Maple Building	RR	RESTROOM PRIVATE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
436	Maple Building	0	NURSES STATION	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
438	Maple Building	0	TRIAGE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
440	Maple Building	OFF	OFFICE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
442	Maple Building	STRG	MEDICAL SUPPLY	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	6	44	0.044	0.264	40	238
445	Maple Building	OFF	OFFICE CALL CENTER	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP24T2	1	1	30%	3,000	900	1	86	0.086	0.086	77	77
449	Maple Building	RR	RESTROOM PRIVATE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
451	Maple Building	0	EYE WASH STATION	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
453	Maple Building	UT	UTILITY STORAGE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
455	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
457	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
459	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
461	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
463	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
465	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
467	Maple Building	UT	UTILITY CUSTODIAL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
469	Maple Building	0	PHARMACY	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	2,250	675	9	44	0.044	0.396	30	267
471	Maple Building	UT	UTILITY CLEANING	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP1824SWR	1	1	30%	6,205	1,862	1	44	0.044	0.044	82	82
473	Maple Building	OFF	OFFICE #1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
475	Maple Building	OFF	OFFICE #2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40
477	Maple Building	OFF	OFFICE SOCIAL WORK DEPT	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40

Occupancy Sensors As-Built Detail

Location Data											Controlling						
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings	
481	Maple Building	0	MEDICAL RECORDS	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40	
484	Maple Building	OFF	OFFICE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40	
486	Maple Building	OFF	OFFICE EYE WASH	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	2	44	0.044	0.088	40	79	
489	Maple Building	OFF	OFFICE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	1	44	0.044	0.044	40	40	
491	Maple Building	UT	UTILITY DATA	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	6,205	1,862	2	44	0.044	0.088	82	164	
493	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24T2	1	1	30%	3,000	900	2	86	0.086	0.172	77	155	
495	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	3,000	900	2	44	0.044	0.088	40	79	
498	Maple Building	EXAM	EXAM ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	3,000	900	1	40	0.040	0.040	36	36	
522	Maple Building	UT	UTILITY STORAGE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1		30%	1,040	312	3	44	0.044	0.132	14	41	
283.B1	Maple Building	OFF	VACANT AREA OPEN OFFICE 1	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	2	1	30%	3,000	900	11	44	0.044	0.484	40	436	
Maple Building Total															12.455		11,979
462	Orange County Correctional Facility	0	RESTROOM MENS (2)	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP22	2	2	30%	8,760	2,628	1	44	0.044	0.044	116	116	
465	Orange County Correctional Facility	0	RESTROOMS WOMENS (2)	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP22	2	2	30%	8,760	2,628	1	44	0.044	0.044	116	116	
468	Orange County Correctional Facility	0	BREAK ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	1,040	312	1	44	0.044	0.044	14	14	
470	Orange County Correctional Facility	0	OFFICE 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	0	0	30%	2,184	655	9	44	0.044	0.396	29	259	
472	Orange County Correctional Facility	0	OFFICE 2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	2,184	655	1	44	0.044	0.044	29	29	
474	Orange County Correctional Facility	0	OFFICE 3	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	2,184	655	1	44	0.044	0.044	29	29	
476	Orange County Correctional Facility	0	OFFICE 4	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	0	0	30%	4,380	1,314	1	44	0.044	0.044	58	58	
478	Orange County Correctional Facility	0	OFFICE 5	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	7,280	2,184	1	44	0.044	0.044	96	96	
480	Orange County Correctional Facility	0	OFFICE 6	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	7,280	2,184	28	20	0.020	0.560	44	1,223	
482	Orange County Correctional Facility	0	OFFICE 7	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	1	44	0.044	0.044	116	116	
484	Orange County Correctional Facility	0	OFFICE 8	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	0	0	30%	2,184	655	1	44	0.044	0.044	29	29	
486	Orange County Correctional Facility	0	OFFICE 9	Install a new line voltage wall mounted passive infrared lighting control system. (2-gang)	LP2424K	0	0	30%	8,760	2,628	2	44	0.044	0.088	116	231	
488	Orange County Correctional Facility	0	OFFICE 10	Install a new line voltage wall mounted passive infrared lighting control system. (2-gang)	LP2424K	0	0	30%	2,184	655	1	44	0.044	0.044	29	29	

Occupancy Sensors As-Built Detail

Location Data											Controlling					
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
490	Orange County Correctional Facility	0	OFFICE 11	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	0	0	30%	2,548	764	1	44	0.044	0.044	34	34
492	Orange County Correctional Facility	0	OFFICE 12	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	0	0	30%	7,280	2,184	2	44	0.044	0.088	96	192
495	Orange County Correctional Facility	0	CONFERENCE ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (4-gang)	LP2232K	0	0	30%	8,760	2,628	2	44	0.044	0.088	116	231
500	Orange County Correctional Facility	0	MAINTENANCE OFFICE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24T2	1	1	30%	8,760	2,628	9	44	0.044	0.396	116	1,041
502	Orange County Correctional Facility	0	FILE ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	4,380	1,314	0	2	0.002	0.000	3	0
504	Orange County Correctional Facility	0	RADIO CHARGING STATION	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	7,280	2,184	0	2	0.002	0.000	4	0
506	Orange County Correctional Facility	0	PRIVATE RESTROOM (2)	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	2	2	30%	4,380	1,314	10	44	0.044	0.440	58	578
514	Orange County Correctional Facility	0	BREAK ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2222K	1	1	30%	4,380	1,314	4	44	0.044	0.176	58	231
516	Orange County Correctional Facility	0	PRINT ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	4,380	1,314	1	23	0.023	0.023	30	30
519	Orange County Correctional Facility	0	STOREHOUSE	Install a new fixture mounted sensor, comes on fixture. (120 Volt)	HPPS1444HB WG	0	0	30%	7,280	2,184	4	44	0.044	0.176	96	384
521	Orange County Correctional Facility	0	STOREHOUSE OFFICE 3	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	4,380	1,314	1	27	0.027	0.027	35	35
523	Orange County Correctional Facility	0	STOREHOUSE OFFICE 2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	4,380	1,314	3	44	0.044	0.132	58	173
525	Orange County Correctional Facility	0	STOREHOUSE OFFICE 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	4,380	1,314	13	28	0.028	0.364	37	478
527	Orange County Correctional Facility	0	RESTROOM (2)	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	2	2	30%	4,380	1,314	9	205	0.205	1.845	269	2,424
529	Orange County Correctional Facility	0	BREAK ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24T2	1	1	30%	6,205	1,862	2	2	0.002	0.004	4	7
533	Orange County Correctional Facility	0	BOILER ROOM OFFICE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
536	Orange County Correctional Facility	0	LOCKER ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
566	Orange County Correctional Facility	0	STAFF SERVING	Install a new vending miser control unit.	LP2232K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
590	Orange County Correctional Facility	0	STORAGE ADMIN ARCHIVES	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2222K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
592	Orange County Correctional Facility	0	OFFICE 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
594	Orange County Correctional Facility	0	OFFICE 2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
596	Orange County Correctional Facility	0	OFFICE 3	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
598	Orange County Correctional Facility	0	OFFICE 4	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
600	Orange County Correctional Facility	0	OFFICE 5	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9

Occupancy Sensors As-Built Detail

Location Data											Controlling					
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
602	Orange County Correctional Facility	0	CONFERENCE ROOM	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2232K	1	1	30%	4,380	1,314	2	2	0.002	0.004	3	5
604	Orange County Correctional Facility	0	RESTROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	4,380	1,314	2	2	0.002	0.004	3	5
606	Orange County Correctional Facility	0	KITCHEN	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2232K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
610	Orange County Correctional Facility	0	RESTROOM (2)	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	2	2	30%	8,760	2,628	2	2	0.002	0.004	5	11
613	Orange County Correctional Facility	0	CIVIL ARCHIVES	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
616	Orange County Correctional Facility	0	TELECOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	0	0	30%	8,760	2,628	2	2	0.002	0.004	5	11
620	Orange County Correctional Facility	0	MULTI PURPOSE/ BREAK	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
622	Orange County Correctional Facility	0	MULTI PURPOSE/ BREAK	Install a new vending miser control unit.	NRVENDING-SODA	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
637	Orange County Correctional Facility	0	LIEUTNEANTS OFFICE 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
647	Orange County Correctional Facility	0	UNIT OFFICE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
649	Orange County Correctional Facility	0	SUPPLY	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2222K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
652	Orange County Correctional Facility	0	MASTER HALL	Install a new vending miser control unit.	NRVENDING-SODA	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
654	Orange County Correctional Facility	0	QUARTER MASTER	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	1,456	437	2	2	0.002	0.004	1	2
658	Orange County Correctional Facility	0	WOMENS LOCKER	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP24	1	1	30%	2,184	655	2	2	0.002	0.004	1	3
664	Orange County Correctional Facility	0	KITCHEN	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	4,380	1,314	2	2	0.002	0.004	3	5
667	Orange County Correctional Facility	0	STORAGE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
669	Orange County Correctional Facility	0	ARMERY	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	0	0	30%	8,760	2,628	2	2	0.002	0.004	5	11
680	Orange County Correctional Facility	0	COMMAND OFFICE #2	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP24	1	1	30%	2,184	655	2	2	0.002	0.004	1	3
682	Orange County Correctional Facility	0	COMMAND OFFICE #1	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
700	Orange County Correctional Facility	0	OFFICE 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2232K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
705	Orange County Correctional Facility	0	VALUABLE PROPERTY	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	4,380	1,314	2	2	0.002	0.004	3	5
726	Orange County Correctional Facility	0	COMMAND 3	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP24	0	0	30%	7,280	2,184	2	2	0.002	0.004	4	9
732	Orange County Correctional Facility	0	MEDICATION	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	4,380	1,314	2	2	0.002	0.004	3	5
734	Orange County Correctional Facility	0	CLEAN UTILITY	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	4,380	1,314	2	2	0.002	0.004	3	5

Occupancy Sensors As-Built Detail

Location Data											Controlling					
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
736	Orange County Correctional Facility	0	SOILED UTILITY	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	4,380	1,314	2	2	0.002	0.004	3	5
744	Orange County Correctional Facility	0	BREAK ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
746	Orange County Correctional Facility	0	STORAGE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
749	Orange County Correctional Facility	0	CHAPPEL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
753	Orange County Correctional Facility	0	X-RAY LAB	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
757	Orange County Correctional Facility	0	STORAGE	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP24	1	1	30%	1,456	437	2	2	0.002	0.004	1	2
759	Orange County Correctional Facility	0	RECORDS 4.266A	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	2,184	655	2	2	0.002	0.004	1	3
761	Orange County Correctional Facility	0	BREAK ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	2,184	655	2	2	0.002	0.004	1	3
764	Orange County Correctional Facility	0	OFFICE 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	2,184	655	2	2	0.002	0.004	1	3
766	Orange County Correctional Facility	0	OFFICE 2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	4,380	1,314	2	2	0.002	0.004	3	5
768	Orange County Correctional Facility	0	OFFICE 3	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
785	Orange County Correctional Facility	0	OFFICE 4	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
787	Orange County Correctional Facility	0	OFFICE 3	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	2,184	655	2	2	0.002	0.004	1	3
789	Orange County Correctional Facility	0	SEMINAR 2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	2,548	764	2	2	0.002	0.004	2	3
795	Orange County Correctional Facility	0	OFFICE 2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
797	Orange County Correctional Facility	0	SEMINAR 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
799	Orange County Correctional Facility	0	OFFICE 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
806	Orange County Correctional Facility	0	GYM	Install a new fixture mounted sensor, comes on fixture. (120 Volt)	HPPS1464HB WG	0	0	30%	2,912	874	2	2	0.002	0.004	2	3
986	Orange County Correctional Facility	0	MENTAL HEALTH OFFICE 1	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
990	Orange County Correctional Facility	0	MENTAL HEALTH OFFICE 2	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
992	Orange County Correctional Facility	0	MENTAL HEALTH OFFICE 3	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
994	Orange County Correctional Facility	0	MENTAL HEALTH OFFICE 4	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
996	Orange County Correctional Facility	0	MENTAL HEALTH OFFICE 5	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
998	Orange County Correctional Facility	0	MENTAL HEALTH OFFICE 6	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11

Occupancy Sensors As-Built Detail

Location Data											Controlling					
Control s Line	Building	Room Type	Location Description	Proposed Fixture Description	Controlling	QTY	Installed	% Time Off	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
1000	Orange County Correctional Facility	0	MENTAL HEALTH OFFICE 7	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	7,280	2,184	2	2	0.002	0.004	4	9
1002	Orange County Correctional Facility	0	MENTAL HEALTH OFFICE 8	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
1004	Orange County Correctional Facility	0	ALL PURPOSE ROOM	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	1	30%	8,760	2,628	2	2	0.002	0.004	5	11
	Correctional Facility Total													5.527		8,664
3141	Orange County Courthouse	CORR	CORRIDOR	Install a new vending miser control unit.	NRVENDING-SODA	1		30%	8,760	2,628	0	427	0.427	0.000	1,122	0
	Orange County Courthouse Total													0.000		0
	Grand Total													23.175		26,658

Occupancy Sensors As-Built Detail

1841 Building & Annex

Controls Room by Room Data Orange County, NY Additional Work total Square Feet																16	31	1,214	1,538			
Location Data																Controlling						
Controls Line	Building	Floor	MAP	Hvac	Room Type	Location Description	CODE	Sort Code	Proposed Fixture Description	Controlling	QTY	Notes	% Time Off	Hours Code	Annual Hours	Hours Control Savings	Qty	Watts	Unit kW	Total Line kW	Unit kWh	Total kWh Savings
3206	OLD Court House	2	0	0	0	OFFICE	OSW-1G	CTRL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1		50%	4	3,000	1,500	2	44	0.044	0.088	66	132
3214	OLD Court House	1	0	0	0	BREAK ROOM	OSW-1G	CTRL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP1824SWR	1		50%	4	3,000	1,500	1	41	0.041	0.041	62	62
3219	OLD Court House	1	0	0	0	COPY ROOM	OSW-1G	CTRL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP1824WWR	1		50%	4	3,000	1,500	1	41	0.041	0.041	62	62
3221	OLD Court House	1	0	0	0	HISTORY LIBRARY	FMS-120	CTRL	Install a new fixture mounted sensor, comes on fixture. (120 Volt)	LP1824WWR	2		70%	4	3,000	2,100	1	41	0.041	0.041	86	86
3223	OLD Court House	1	0	0	0	OFFICE- CHARLES LEWIS	FMS-120	CTRL	Install a new fixture mounted sensor, comes on fixture. (120 Volt)	LP1824WWR	2		70%	4	3,000	2,100	1	41	0.041	0.041	86	86
3225	OLD Court House	1	0	0	0	OFFICE- COUNTY HISTORIAN	OSW-1G	CTRL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP1414WWR	1		50%	4	3,000	1,500	2	22	0.022	0.044	33	66
3227	OLD Court House	1	0	0	0	OFFICE- COUNTY HISTORIAN #2	OSW-1G	CTRL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP1414WWR	1		50%	4	3,000	1,500	2	22	0.022	0.044	33	66
3230	OLD Court House	1	0	0	0	TYPOGRAPHIC MAP ROOM	OSW-1G	CTRL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP1414WWR	1		50%	4	3,000	1,500	2	22	0.022	0.044	33	66
3242	OLD Court House Annex	1	0	0	0	OFFICE #1	OSW-1G	CTRL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1	DAYLIGHT & MOTION, 50% REDUCTION ON	50%	4	3,000	1,500	2	44	0.044	0.088	66	132
3244	OLD Court House Annex	1	0	0	0	OFFICE- WATER AUTHORITY (2)	OSW-1G	CTRL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	2		50%	4	3,000	1,500	8	44	0.044	0.352	66	528
3247	OLD Court House Annex	1	0	0	0	BREAK ROOM	OSC-1D	CTRL	Install a new low voltage ceiling mounted dual technology lighting control system (1) location.	LP2424K	1		30%	4	3,000	900	3	44	0.044	0.132	40	119
3253	OLD Court House Annex	2	0	0	0	UTILITY- STORAGE (Double Door Room)	OSW-1G	CTRL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP1824SWR	1		50%	2	1,040	520	2	41	0.041	0.082	21	43
3255	OLD Court House Annex	2	0	0	0	UTILITY- STORAGE (Drowned land)	OSW-1G	CTRL	Install a new line voltage wall mounted passive infrared lighting control system. (1-gang)	LP2424K	1		50%	2	1,040	520	4	44	0.044	0.176	23	92

Water As-Built Summary

Orange County NY

Executive Summary

WCM #	WCM Description	Quantity Installed	Savings (\$\$)	Savings (gal)
WCM-1	Toilet Retrofits/Replacements	30	\$ 830	65,943
WCM-2	Urinal Retrofits/Replacements	3	\$ 66	5,280
WCM-3	Faucet Retrofits	211	\$ 3,065	243,439
WCM-4	Showerhead Replacements	0	\$ -	0
	DHW Energy Savings		\$ 988	
	Janitorial Savings		\$ 349	27,691
	O&M Savings		\$ 99	
Domestic Measures Subtotal			\$ 5,397	342,354
WCM-5	Ozone System for Laundry	1		
	Laundry HW Savings		\$ 8,588	
	Laundry Water Savings		\$ 7,233	507,195
Non-Domestic Laundry Measures Subtotal			\$ 15,821	507,195
Project Grand Total			\$ 21,218	849,548.6

Water Testing Results

Orange County NY

Domestic Savings

Building	Correctional Facility	Maple Building	DPW	99-101 Main St
% Water Accounted For	85%	41%	63%	73%
Primary Use	Prison	Office	Commercial	Office
Sq Ft	448,043	50,000	20,000	31,000
POPULATION				
Employees	62	40	16	15
% Male	50%	50%	50%	50%
Days Per Year	365	240	300	240
Inmate	300	0	0	0
% Male	50%	50%	50%	50%
Days Per Year	365	0	0	0
Occupant 2	0	0	0	0
% Male	50%	50%	50%	50%
Days Per Year	0	0	0	0
Occupant 3	0	0	0	0
% Male	50%	50%	50%	50%
Days Per Year	0	0	0	0
Visitors	per day	100	0	0
% Using Lavatory		25.00%	25.00%	25.00%
Days Per Year		0	0	0
% Male Using Urinals		50.00%	50.00%	50.00%
UTILITIES				
Water Rate (\$/Kgal)	\$0.00	\$0.00	\$0.00	\$0.00
Sewer Rate (\$/Kgal)	\$0.00	\$0.00	\$0.00	\$0.00
W/S Rate (\$/Kgal)	\$12.59	\$12.59	\$12.59	\$12.59
Fuel Type	Natural Gas	Natural Gas	Natural Gas	Natural Gas
Unit Cost per Fuel Type (Gal/CCf/Therm/kWh)	1.23	1.46	1.24	1.24
Cost per (\$/MMBtu)	12.26	14.56	12.44	12.44
WATER SAVINGS				
Metered Water Consumption - Annual (Gals) - ESTIMATED	1,692,000	364,000	96,000	57,600
Domestic Water Cons -Total Annual (Gals)	1,443,506	151,008	60,432	42,255
% Water Used (Domestic)	85.31%	41.49%	62.95%	73.36%
Water Savings (Kgal)	195	71	30	18
% Water Saved	11.54%	19.60%	31.45%	31.17%
% Domestic Water Saved	13.52%	47.23%	49.96%	42.49%
Water Savings (Dollars)	\$2,457.41	\$898.02	\$380.12	\$226.05
FUEL SAVINGS				
Fuel Consumption - Total Annual (MMBtu)	0	0	0	0
Heated Water Used (Gallons)	322,933	34,099	5,184	7,128
Heated Water Saved (Gallons)	107,353	19,699	3,744	5,508
Ground Water Temp	58	58	58	58
Heated Water Temp	120	120	120	120
% Hot Water Used in Sinks	55.00%	60.00%	60.00%	60.00%
% Hot Water Used in Showers	75.00%	75.00%	75.00%	75.00%

Water Testing Results

Orange County NY

Domestic Savings

Building		Correctional Facility	Maple Building	DPW	99-101 Main St
Heat Transfer Efficiency		90.00%	90.00%	90.00%	90.00%
Weight of 1 Gallon of Water (lbs)		8.345	8.345	8.345	8.345
Fuel Usage (MMBtu)		186	20	3	4
Fuel Savings (MMBtu)		62	11	2	3
% Fuel Saved		0.00%	0.00%	0.00%	0.00%
Fuel Savings (Dollars)		\$756.65	\$164.89	\$26.78	\$39.39
Fixture Uses per day (Toilets and Urinals)					
FPD-	Employees	3.00	4.00	4.00	5.00
FPD -	Inmate	4.00	2.00	2.00	2.00
FPD -	Occupant 2	2.00	2.00	2.00	2.00
FPD -	Occupant 3	2.00	2.00	2.00	2.00
FPD -	Visitors	1.00	1.00	1.00	1.00
Toilet - Pre GPF					
		2.10	2.77	3.23	2.25
Toilet - Post GPF					
		2.10	1.60	1.60	1.60
Savings per Flush		0.00	1.17	1.63	0.65
Gallons Used (per Year)		796,777	79,776	46,512	30,375
Gallons Saved (per Year)		0	33,696	23,472	8,775
Water Saved Annual (Kgal)		0.00	33.70	23.47	8.78
Water Saved Annual (Dollars)		\$0.00	\$424.23	\$295.51	\$110.48
Urinal - Pre GPF					
		1.00	1.50	1.10	0.00
Urinal - Post GPF					
		1.00	1.00	1.00	0.00
Savings per Flush		0.00	0.50	0.10	0.00
Gallons Used (per Year)		126,473	14,400	5,280	0
Gallons Saved (per Year)		0	4,800	480	0
Water Saved Annual (Kgal)		0.00	4.80	0.48	0.00
Water Saved Annual (Dollars)		\$0.00	\$60.43	\$6.04	\$0.00
Common Area Sink					
	Pre-GPM	1.92	1.66	1.80	2.20
	Post-GPM	0.50	0.50	0.50	0.50
Savings per Minute		1.42	1.16	1.30	1.70
Gallons Used (per Year)		192,019	31,872	8,640	11,880
Gallons Saved (per Year)		142,014	22,272	6,240	9,180
MPD -	Employees	2.00	2.00	1.00	1.50
MPD -	Inmate	0.50	0.00	0.00	0.00
MPD -	Occupant 2	0.50	0.50	0.50	0.50
MPD -	Occupant 3	0.50	0.50	0.50	0.50
MPD -	Visitors	0.50	0.00	0.00	0.00
Water Saved Annual (Kgal)		142.01	22.27	6.24	9.18
Water Saved Annual (Dollars)		\$1,787.96	\$280.40	\$78.56	\$115.58
Kitchen Sinks					
	Pre-GPM	2.45	2.60	0.00	0.00

Water Testing Results

Orange County NY

Domestic Savings

Building		Correctional Facility	Maple Building	DPW	99-101 Main St
Kitchen Sinks	Post-GPM	1.50	1.50	0.00	0.00
Savings per Minute		0.95	1.10	0.00	0.00
Gallons Used (per Year)		37,916	24,960	0	0
Gallons Saved (per Year)		14,702	10,560	0	0
MPD -	Employees	0.20	1.00	5.00	5.00
MPD -	Inmate	0.10	1.00	5.00	5.00
MPD -	Occupant 2	5.00	5.00	5.00	5.00
MPD -	Occupant 3	5.00	5.00	5.00	5.00
MPD -	Visitors	0.00	0.00	0.00	0.00
Water Saved Annual (Kgal)		14.70	10.56	0.00	0.00
Water Saved Annual (Dollars)		\$185.10	\$132.95	\$0.00	\$0.00
Lab/Classroom Sinks	Pre-GPM	0.00	0.00	0.00	0.00
Lab/Classroom Sinks	Post-GPM	0.00	0.00	0.00	0.00
Savings per Minute		0.00	0.00	0.00	0.00
Gallons Used (per Year)		0	0	0	0
Gallons Saved (per Year)		0	0	0	0
MPD -	Employees	0.00	0.00	0.00	0.00
MPD -	Inmate	0.00	0.00	0.00	0.00
MPD -	Occupant 2	0.00	0.00	0.00	0.00
MPD -	Occupant 3	0.00	0.00	0.00	0.00
MPD -	Visitors	0.00	0.00	0.00	0.00
Water Saved Annual (Kgal)		0.00	0.00	0.00	0.00
Water Saved Annual (Dollars)		\$0.00	\$0.00	\$0.00	\$0.00
Patient/Exam Sinks	Pre-GPM	2.35	0.00	0.00	0.00
Patient/Exam Sinks	Post-GPM	1.50	0.00	0.00	0.00
Savings per Minute		0.85	0.00	0.00	0.00
Gallons Used (per Year)		106,361	0	0	0
Gallons Saved (per Year)		38,471	0	0	0
MPD -	Employees	2.00	0.00	0.00	0.00
MPD -	Inmate	0.00	0.00	0.00	0.00
MPD -	Occupant 2	0.00	0.00	0.00	0.00
MPD -	Occupant 3	0.00	0.00	0.00	0.00
MPD -	Visitors	0.00	0.00	0.00	0.00
Water Saved Annual (Kgal)		38.47	0.00	0.00	0.00
Water Saved Annual (Dollars)		\$484.35	\$0.00	\$0.00	\$0.00
Shower	Pre-GPM	2.10	0.00	0.00	0.00
Shower	Post-GPM	2.10	0.00	0.00	0.00
% of Populaiton Using Shower		10%	10%	10%	10%
Savings per Minute		0.00	0.00	0.00	0.00
Gallons Used (per Year)		183,960	0	0	0

Water Testing Results

Orange County NY

Domestic Savings

Building		Correctional Facility	Maple Building	DPW	99-101 Main St
Gallons Saved (per Year)		0	0	0	0
MPD -	Employees	0.00	0.00	0.00	0.00
MPD -	Inmate	8.00	8.00	8.00	8.00
MPD -	Occupant 2	8.00	8.00	8.00	8.00
MPD -	Occupant 3	8.00	8.00	8.00	8.00
MPD -	Visitors	0.00	0.00	0.00	0.00
Water Saved Annual (Kgal)		0.00	0.00	0.00	0.00
Water Saved Annual (Dollars)		\$0.00	\$0.00	\$0.00	\$0.00

Janitorial Savings

TOILETS

Number of times fixture is flushed	2	2	2	2
Percent of fixtures cleaned daily	15%	100%	100%	100%
Days Cleaned per year	365	240	240	240
Number of fixtures on site	697	34	7	10
Total in gallons per year Pre	160,275	45,206	10,853	10,800
Total in gallons per year Post	160,275	26,112	5,376	7,680
Savings per year Kgal	0	19	5	3
Savings per year \$	\$0.00	\$240.40	\$68.95	\$39.28

URINALS

Number of times fixture is flushed	0	0	0	0
Percent of fixtures cleaned daily	0%	0%	0%	0%
Days Cleaned per year	0	0	0	0
Number of fixtures on site	0	0	0	0
Total in gallons per year Pre	0	0	0	0
Total in gallons per year Post	0	0	0	0
Savings per year Kgal	0	0	0	0
Savings per year \$	\$0.00	\$0.00	\$0.00	\$0.00

Common Area Sink

Run time in minutes for cleaning	0	0	0	0
Percent of Sinks cleaned daily	0%	0%	0%	0%
Days Cleaned per year	0	0	0	0
Number of Sinks onsite	0	0	0	0
Total in gallons per year Pre	0	0	0	0
Total in gallons per year Post	0	0	0	0
Savings per year	0	0	0	0
Savings per year	\$0.00	\$0.00	\$0.00	\$0.00

Kitchen Sinks

Run time in minutes for cleaning	0	0	0	0
Percent of Sinks cleaned daily	0%	0%	0%	0%
Days Cleaned per year	0	0	0	0
Number of Sinks onsite	0	0	0	0

Water Testing Results

Orange County NY

Domestic Savings

Building	Correctional Facility	Maple Building	DPW	99-101 Main St
Total in gallons per year Pre	0	0	0	0
Total in gallons per year Post	0	0	0	0
Savings per year	0	0	0	0
Savings per year	\$0.00	\$0.00	\$0.00	\$0.00
Lab/Classroom Sinks				
Run time in minutes for cleaning	0	0	0	0
Percent of Sinks cleaned daily	0%	0%	0%	0%
Days Cleaned per year	0	0	0	0
Number of Sinks onsite	0	0	0	0
Total in gallons per year Pre	0	0	0	0
Total in gallons per year Post	0	0	0	0
Savings per year	0	0	0	0
Savings per year	\$0.00	\$0.00	\$0.00	\$0.00
Patient/Exam Sinks				
Run time in minutes for cleaning	0	0	0	0
Percent of Sinks cleaned daily	0%	0%	0%	0%
Days Cleaned per year	0	0	0	0
Number of Sinks onsite	0	0	0	0
Total in gallons per year Pre	0	0	0	0
Total in gallons per year Post	0	0	0	0
Savings per year	0	0	0	0
Savings per year	\$0.00	\$0.00	\$0.00	\$0.00
SHOWERS				
Run time in minutes for cleaning	0	0	0	0
Percent of showers cleaned daily	0%	0%	0%	0%
Days Cleaned per year	0	0	0	0
Number of Showers onsite	0	0	0	0
Total in gallons per year Pre	0	0	0	0
Total in gallons per year Post	0	0	0	0
Savings per year	0	0	0	0
Savings per year	\$0.00	\$0.00	\$0.00	\$0.00
Mop Buckets				
Number of buckets filled per day	0	0	0	0
Size of bucket in gallons	0	0	0	0
Times refilled	0	0	0	0
Days Cleaned per year	0	0	0	0
Total in gallons per year Pre	0	0	0	0
Total in gallons per year Post	0	0	0	0

Glossary of Terms

Actual Cost	Actual energy cost taken directly from utility bill.
Adjustment	Calculations used to bring energy usage in base year to the same set of conditions as the current year.
Balance Point Temperature (BPT)	For heating degree-days, the outdoor temperature below which space heating is required; for cooling degree-days, the outdoor temperature above which space cooling is required. This is typically 65 degrees, but varies based on building type, construction material, etc.
Baseline	The raw base year data adjusted by the energy impact of the variables between the years being compared.
BTU	British thermal unit; the quantity of heat required to raise the temperature of one pound of water by one degree Fahrenheit.
BTUh	The quantity of heat generated/consumed over a one hour period.
CCF	An industry standard measure of a gaseous fuel, typically natural gas, having a volume of 100 cubic feet. (See also Therm)
CDD	Cooling Degree-Day; a value that represents weather condition severity. It is the monthly sum of the daily mean temperature (measured by the National Weather Service) above the cooling Balance Point.
Cost Avoidance	The difference between the actual cost incurred during a selected time period versus what the cost would have been had the cost avoidance strategy not been implemented.
Decatherm	The energy content of a 1,000 cubic feet volume of a gaseous fuel; sometimes used as a synonymous term for MCF. Technically, however, a decatherm is the Btu heat content of 1,000 cubic feet of a gaseous fuel, where the Btu content varies based on source and quality.
ECM	The Energy Conservation Measure (ECM) is the installation of equipment or systems, or modification of equipment or systems, for the purpose of reducing utility (energy, water, etc.) consumption, demand and costs and/or non-utility (O&M, operational) costs.
EMS	Energy Management System; a computer that can be programmed to control and/or monitor the operations of energy-consuming equipment in a facility.
Guarantee Period	The period beginning on the first (1st) day of the First Guarantee Year and ending on the last day of the final Guarantee Year. Also known as the "Measurement and Verification Phase" or "Performance Period".
Guarantee Year	The First Guarantee Year and each of the successive twelve (12) month periods commencing on the anniversary of the commencement of the First Guarantee Year throughout the term of the agreement.

Glossary of Terms

Guaranteed Savings	The amount of avoided Energy and Operational Costs necessary to pay for the cost of the Work and Support Services incurred by the customer in each Guarantee Year.
HDD	Heating Degree-Day; a value that represents weather condition severity. It is the monthly sum of the daily mean temperature (measured by the National Weather Service) below the heating Balance Point.
HVAC	Industry standard abbreviation for Heating, Ventilating and Air Conditioning.
kW	Kilowatt; a unit of electrical power, equal to 1000 watts.
kWh	Kilowatt hours; a unit of electrical energy or work, equal to that done by one kilowatt acting for one hour.
Load Factor	The percentage of time that a piece of equipment operates at full load over a measured time period. (i.e. Lights are operated at 100% Load Factor. Refrigerators, on the other hand, operate at less than 100% load based on internal and external temperatures while also cycling on & off as needed to maintain a temperature set point.)
M&V	Measurement and verification; the process of determining savings using one of the four IPMVP options.
MCF	An industry standard measure of a gaseous fuel, typically natural gas, having volume of 1,000 cubic feet. (See also, Decatherm)
Operational Cost Avoidance	Often referred to as O&M cost avoidance, this includes the avoided costs of operating and maintaining the facilities, such as, but not limited to, the avoided cost of inside and outside labor to repair and maintain affected systems and equipment, custodial supplies, replacement parts, deferred maintenance, lamp and ballast disposal, and new capital equipment.
Plug Load	Electrical energy-consuming equipment that draws its operating power through cords and wall plugs. (i.e. Office equipment, refrigerators, freezers, vending equipment, radios, TVs, microwave ovens, coffee pots, fans, floor heaters, etc.)
Post-Retrofit Period	Any period of time following commissioning of the ECMs.
Reference Year	A period of time (usually one year) which defines the baseline usage and is representative of the facility's operations, consumption, and usage that is used as the benchmark for determining cost avoidance. This is also referred to as the "Base Year".
Therm	The energy content of a 100 cubic feet volume of a gaseous fuel; sometimes used as a synonymous term for CCF. Technically, however, a therm is the Btu heat content of 100 cubic feet of a gaseous fuel, where the Btu content varies based on source and quality.