IES Indoor Environmental Services

Your Partner for Green Facilities, Sustainability and Clean Technologies

ENERGY EXPENDITURE PLAN

Roosevelt Elementary School

Roosevelt Elementary School

801 Montana Avenue

Santa Monica, CA 90403

P: (310) 395-0941

PREPARED FOR:

California Energy Commission

Energy Division

Local Assistance and Financing Office, MS-23

1516 Ninth Street

Sacramento, Ca 95814

PREPARED ON:
5/17/2017

Table of Contents

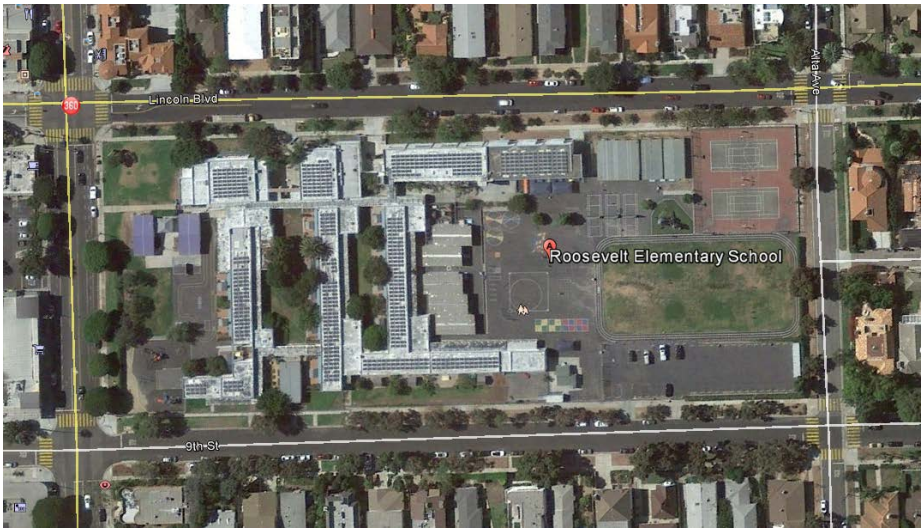
Section 1: Facility Background 3
Roosevelt Elementary School 3
Utility Costs and Rate Schedules 4
Benchmarking 5
Section 2: Energy Efficiency Measures (EEM) Summary 6
Lighting Systems Retrofit 7
Appendix – A 8
School Schedules and Maps 8
Daily Bell Schedule and Academic Calendar 9
Roosevelt Elementary School Map 11
Appendix – B 12
Energy Utilization Analysis 12
Appendix – C 15
Lighting Systems Audit 15

Section 1: Facility Background

Roosevelt Elementary School

Roosevelt Elementary School is located at 801 Montana Avenue in Santa Monica, CA 90403. It is an elementary school serving approximately 798 students ranging from grades K-5 and provides instruction using 8 permanent buildings and 10 portable buildings. The total amount of occupied space is 58,921 SF. For a complete map of the campus, see Appendix A.

The campus operates on an academic calendar that begins in late August and ends in late June. Winter Break is a two week break that begins at the end of December and goes to the first week of January. Spring Break is a one week break that begins in early-April. School is in session beginning at 8:30 a.m. and continuing until 3:00 p.m., Monday through Friday. For a complete academic calendar and bell schedule, refer to Appendix A.



Utility Costs and Rate Schedules

The Roosevelt Elementary School facilities receive electricity services from Southern California Edison (SCE) and gas services from SoCalGas (SCG). Monthly utility data is considered separately for each utility meter and each energy type (electricity, natural gas, propane, diesel, and water).

The following is a list of the meters associated with each energy type utilized at Roosevelt Elementary School:

Table 1: Electric Meter Numbers and Rate Schedules

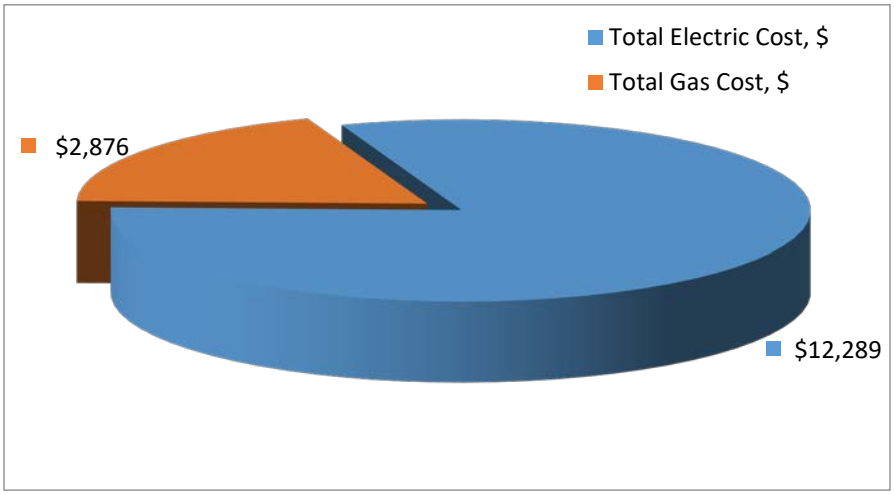
Account Number	Meter Number	Rate Schedule
3-005-3114-05	259000-000941	TOU-GS-2-R

Table 2: Gas or Propane Meter Numbers and Rate Schedules

Account Number	Meter Number	Rate Schedule
1914036400	14480160	GN-10
18930364007	13568646	GN-10

Also located on site is a 151.3 kW, installed in 2013, that produced 225,874 kWh from July, 2015 to June, 2016.

The utility data provided uses the data recovered from each of these meters during the period of July, 2015 to June, 2016. The cost comparison of Roosevelt Elementary School's gas and electricity costs can be seen in the table below:



Benchmarking

As part of the site evaluation we determined the Energy Utilization Analysis (EUA) to provide important information about the energy usage of the school. Listed in the table below is the Benchmarking Report for Roosevelt Elementary School:

Energy Use Intensity Calculator					
Electricity		Natural Gas		Other Fuels	
1.29	*W/SF*	0.05	*Therms/SF*	0.00	*Gals/SF*
6.09	*kWh/SF*	$ 0.05	*Cost/SF*	$ 0.00	*Cost/SF*
$ 0.21	*Cost/SF*				
Energy Costs/SF/Year		$ 0.26	Energy Use(Kbtu)/SF/Year		70.25

The main purpose of this report is to assess the current energy usage of Roosevelt Elementary School. Energy consumption is analyzed compared to the site's actual weather data expressed in Cooling Degree Days (CDD) & Heating Degree Days (HDD). Graphs comparing the energy consumption to the CDD and HDD can be found in Appendix B.

The Baseline Energy Utilization Analysis (EUA) report compiles the monthly energy data from all meters on site. The EUA is useful in identifying critical energy consuming benchmarks like kWh/SF, kBtu/SF, and Cost/SF for each fuel type and individual school site. This report is a great resource to have for identifying the lowest energy performing schools. The report ranking will present the schools that consume the most energy when compared to others within the district or other comparable districts. The considered school is rated at 6.09 kWh/SF/yr.

The baseline EUA summary of all the meters for Roosevelt Elementary School can be found in Appendix B.

Section 2: Energy Efficiency Measures (EEM) Summary

Energy savings are based on the difference between annual energy use under existing conditions and annual energy use under proposed conditions. These annual energy savings, and the corresponding annual energy cost savings, are used to determine the cost–effectiveness of the projects. Demand savings are calculated as the different between the electricity demand of the existing equipment and electricity demand of proposed equipment. The table below shows the Energy Efficiency Measures proposed and the corresponding savings associated with them.

EEM Number	Energy Efficiency Measure	Demand Savings (kW)	Electricity Savings (kWH/yr)	Natural Gas or Fuel Savings (therms or gal/yr)	Annual Cost Savings ($)	Rebates and Grants ($)	Installed Measure Cost ($)
Lighting	Lighting – Interior Fixture Retrofit	31	56,663		$5,270.00	$75,000.00	$147,615.00
Lighting	Lighting – Exterior Fixture Retrofit	8	28,918		$2,689.00	$36,000.00	$72,409.00
Lighting	Lighting – Retrofit Interior Lamps to LED	1	1,370		$127.00	$2,000.00	$3,725.00
Lighting	Lighting – LED Exit Signs	0	79		$7.00	$0.00	$215.00
	Totals	40	87,030		$8,093.00	$113,000.00	$223,964.00

Lighting Systems Retrofit

A significant portion of a facilities electrical costs comes from lighting, making lighting retrofits one of the quickest and simplest methods for reducing utility costs. In most cases the retrofits will result in improved light quality and reduced maintenance costs in addition to the estimated energy savings.

The method used for calculating energy savings is outlined below:

Annual Saving, $ = (Existing Watts – New Watts) /1000 x Hours/Year x Utility Rate x N

Where,

Existing Watts – Wattage rating for the existing (Baseline) light fixture

New Watts – New wattage rating for the existing light fixture

Hours/Year – Annual number of "burn-hours" (run hours for different areas; see detailed audit in Appendix C)

Utility Rate – Actual weighted composite utility rate, $/kWh

N – Number of light fixtures of the particular type (see below & in Appendix C for the actual quantities).

The current interior lighting systems in the Roosevelt Elementary School buildings consist of a combination of 1st generation T-8, T-12, compact fluorescent, and incandescent lamps and fixtures. Following examination of the data collected, a full retrofit of the lighting system with LED lamps and fixtures is recommended.

The current exterior lighting systems in the Roosevelt Elementary School buildings consist of compact fluorescent, 1st generation T-8, high pressure sodium, and incandescent lamps and fixtures. Following examination of the data collected, a full retrofit of the lighting system with LED lamps and fixtures is recommended.

This retrofit will generate more saving, electrical demand reduction and better payback than other Energy Conservation Measures such as HVAC replacements. Upon installment of the new system, the campus will conserve 39.3915 kW and 87,025 kWh per year. The cost savings per year will be approximately $8,093.28. A full detailed audit of the current lighting system implemented in the entire campus can be found in Appendix C.

Appendix – A

School Schedules and Maps

Daily Bell Schedule and Academic Calendar

Regular Bell Schedule

8:15	Yard Opens
8:28	Warning Bell
8:30	School Begins
9:55	End Recess (Grades 1, 2, 3)
10:15	End Recess (Grades 4-5)
12:25	End First Lunch (Grades 4-5)
12:40	End Second Lunch (Grades 2-3)
1:00	End Third Lunch (Grades 1-2)
1:40	Dismissal Kindergarten
2:00	End of Recess (Grades 1-3)
2:50	Dismissal Grades 1-2
3:00	Dismissal Grades 3-5

Wednesday Bell Schedule

9:45	Yard Opens
9:55	Warning Bell
10:00	School Begins
12:25	End First Lunch (Grades 4-5)
12:40	End Second Lunch (Grades 2-3)
1:00	End Third Lunch (Grades 1-2)
1:40	Dismissal Kindergarten
2:00	End of Recess (Grades 1-3)
2:50	Dismissal Grades 1-2
3:00	Dismissal Grades 3-5

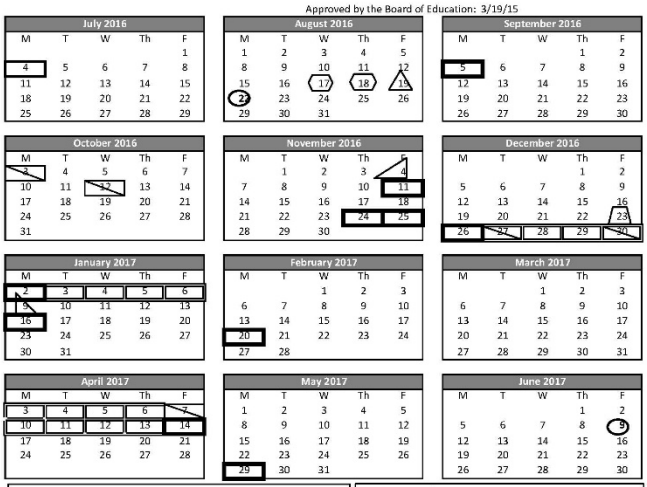
Minimum Days 2016-17
K: Aug. 22, 23, 30; Nov. 7-10, 23; Dec. 23; May 25; June 9;
Elementary: Aug. 22, 30; Sept. 6;
Nov. 7-10, 23; Dec. 23; May 25; June 9;

Student schedule on minimum days:
K - 8:30-12:20
1st, 2nd - 8:30 - 1:00
3rd, 4th & 5th 8:30 - 1:15

SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT

2016-2017 District Calendar

Approved by the Board of Education: 3/19/15



Legend:
- = First/Last Day of School
- = Legal Holiday
- = Local Holiday (schools/offices closed)
- = School Recess (classes not in session)
- = Pupil Free Day (no school for students)
- = Elem. Pupil Free Day (no school -elem students)
- = Sec. Pupil Free Day (no school -sec students)
- = Minimum Day for all students
- = Certificated Staff Development Days

Employee Work Dates:

Sept. 1, 2016-June 30, 2017:* Classified 11-Month
*must work 22 days in July/August, 2016
Aug. 8, 2016-June 21, 2017: Classified 10 +10
Aug. 15, 2016-June 14, 2017: Classified 10-Month
Aug. 17, 2016-June 9, 2017: Certificated/184 Days
Aug. 18, 2016-June 9, 2017: Certif-CDS/183 Days
Aug. 19, 2016-June 9, 2017: Classified School Year

Teacher Work Days: 184
Student Days: 180

1st Semester: Aug. 22 - Dec. 23 (84 days)
2nd Semester: Jan. 10 - June 9 (96 days)

SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT

First Day of Instruction:
- Monday, August 22, 2016

Last Day of Instruction:
- Friday, June 9, 2017

Certificated Staff Development Days:
(No Students)
- Wednesday, August 17, 2016
- Thursday, August 18, 2016

HOLIDAYS:
July 4: 4th of July Holiday
Sept. 5: Labor Day Holiday
Oct 3: Local Holiday
Oct 12: Local Holiday
Nov. 11: Veteran's Day Holiday
Nov. 24: Thanksgiving Holiday
Nov. 25: Legal Holiday (Admissions Day observe)
Dec. 26, 27: Winter Holidays
Dec. 30, Jan 2: New Years Holidays
Jan 16: Martin Luther King Jr. Holiday
Feb. 20: Presidents' Day Holiday
Apr. 7: Local Holiday
Apr. 14: Legal Holiday (Lincoln's B'day observed)
May 29: Memorial Day Holiday

SCHOOL RECESSES:
Dec. 26 - Jan 6: Winter Recess
Apr 3 - Apr 14: Spring Recess

PUPIL-FREE DAYS:
Aug. 17: All Students
Aug. 18: All Students
Aug. 19: All Students
Nov. 4: Elementary Students Only
Jan. 9: Secondary Students Only

MINIMUM DAYS:
TK/Kindergarten: Aug. 22, Aug. 23, 30, Nov. 7, 8, 9, 10, 23, Dec. 23, May 25, June 9

Elementary: Aug. 22, 30, Sept. 6, Nov. 7, 8, 9, 10, 23, Dec. 23, May 25, June 9

Santa Monica Middle Schools: Sept. 8, Nov. 23, Dec. 23, Mar. 31, Apr. 27, June 8, June 9, + 1 discretionary

Malibu MS/HS: Sept. 8, 15, Nov. 23, Dec. 21, 22, 23, March 9, June 6, 7, 8 + 1 discretionary

Samohi: Sept. 15, Dec. 20, 21, 22, 23, Mar. 9, June 5, 6, 7, 8

Olympic HS: Sept. 20, Nov. 23, Dec. 23, May 2, June 1, 2, 5, 6, 7, 8, 9

Back to School Nights:
Tues. Aug. 30 - Elem TK-2
Tues. Sept. 6 - Elem 3-5
Thurs. Sept. 8 - Middle School
Thurs. Sept. 15 - High School
Tues. Sept. 20 - Olympic HS

Open House Nights:
Thurs. May 25 - Elementary
Thurs. April 27 - SM Middle Schools
Thurs. March 9 - Malibu MS/HS and Samohi
Tues. May 2 - Olympic HS

Promotions/Graduations:
Wed. June 7 - Elementary
Fri. June 9 - Middle School
Thurs. June 8 - MHS 2:00 pm
- Samohi 5:30 pm
Wed. May 31 - Olympic HS 5:30 pm

Parent Conference Days (TK-5):
Nov. 4 - Nov. 10, 2016

Testing Dates: *expected, not confirmed*
AP Testing: May 1- May 12, 2017
STAR: April 20 - May 18, 2017
SBAC: April 20 - May 29, 2017

TK/Kindergarten Roundup:
Jan. 30 - Feb. 10, 2017

Final Exams:
Malibu MS/HS: Dec. 21-23, 2016
June 6-8, 2017
Samohi: Dec. 20-23, 2016
June 5-8, 2017

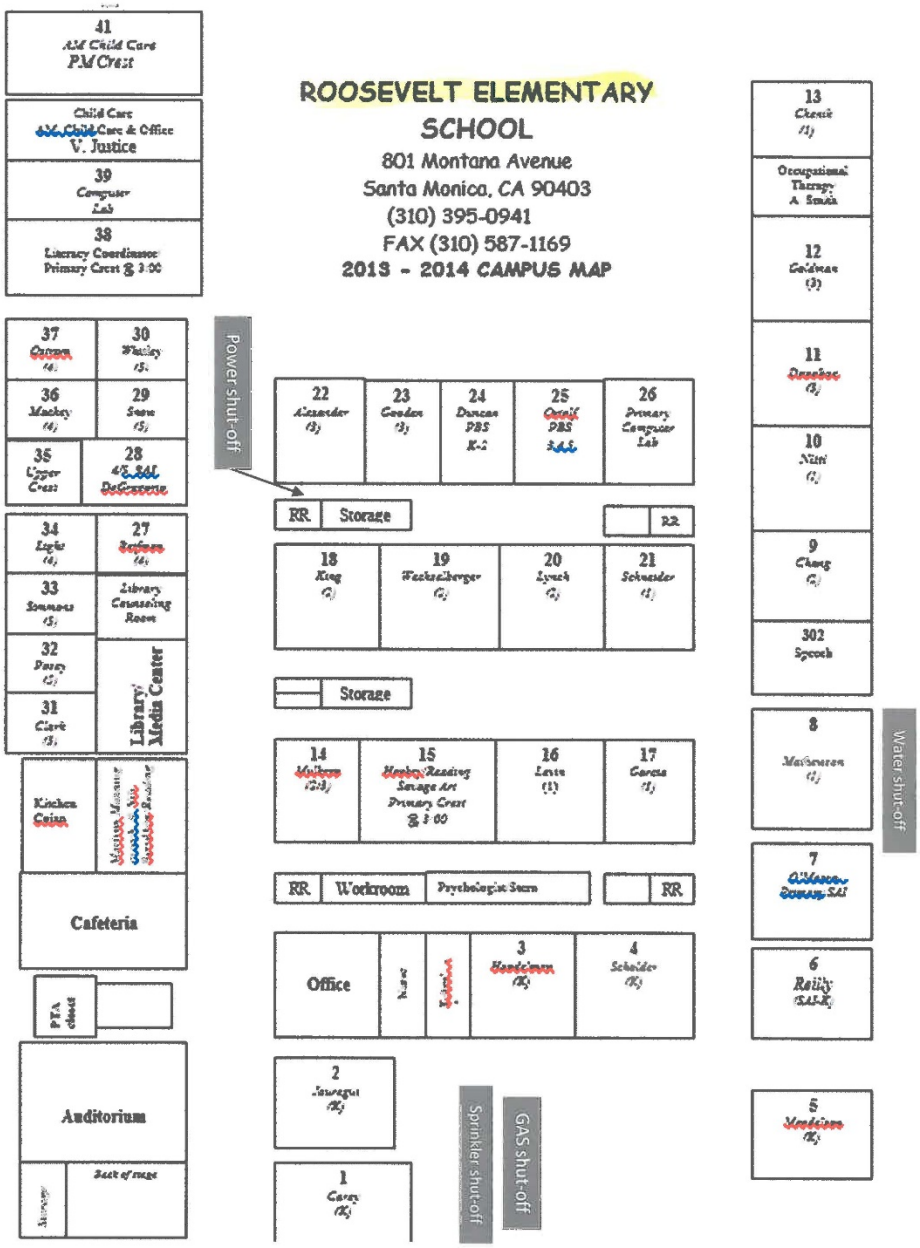
Summer School:
IISS: June 19-July 14, 2017
Credit Recovery: June 19-Jul 21, 2017
ESY: June 19-July 14, 2017

TK-5 Grading Periods:
Conference: Nov. 4, 2016
Winter Grading: Feb. 10, 2017
Spring Grading: June 9, 2017

6-12 Grading Periods
Aug. 22 - Sept. 30, 2016
Oct. 4 - Nov. 10, 2016
Nov. 14 - Dec. 23, 2016
Jan. 9 - Feb. 24, 2017
Feb. 27 - April 28, 2017
May 1 - June 9, 2017

Revised
3/5/15

Roosevelt Elementary School Map



Appendix – B

Energy Utilization Analysis

Customer Name: Santa Monica-Malibu USD

Facility Name: Roosevelt Elementary

Facility Location: 801 Montana Avenue, Santa Monica, CA

Sq. Ft. (conditioned space): 58,921

Billing Period

FROM: Jul-15

TO: Jun-16

Elec Utility Name: SCE

Account #	Meter #	Rate Schedule
2-35-596-4479	259000-000941	TOU-GS-2-R
0	0	0
0	0	0
0	0	0

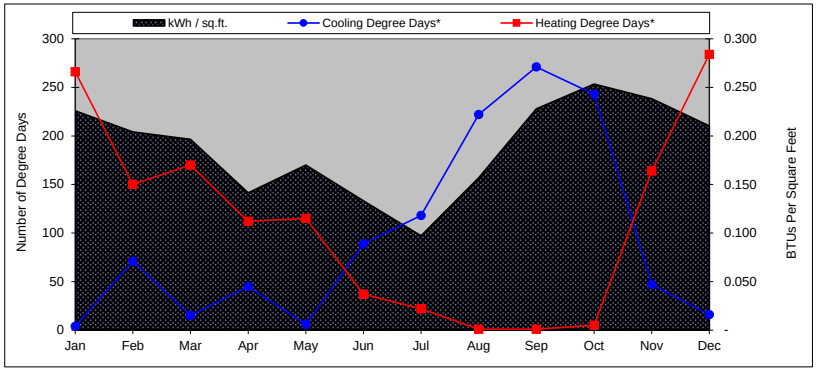
Natural Gas Utility Name: SCG

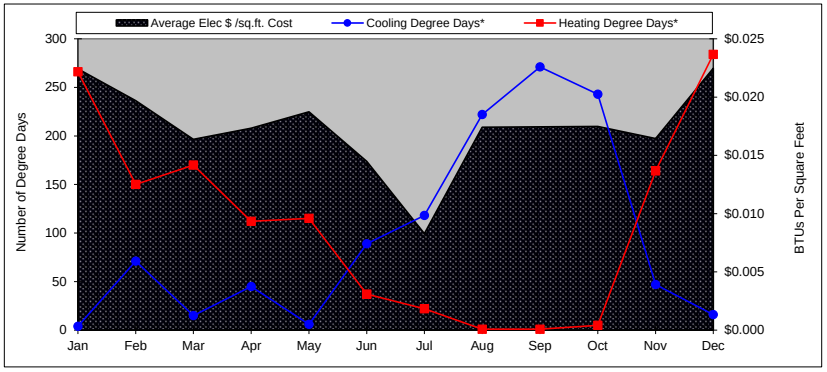
Account #	Meter #	Rate Schedule
6307342052	14480160	GN-10-NON-RESIDENTIAL
18930364007	13568646	GN-10
0	0	0
0	0	0

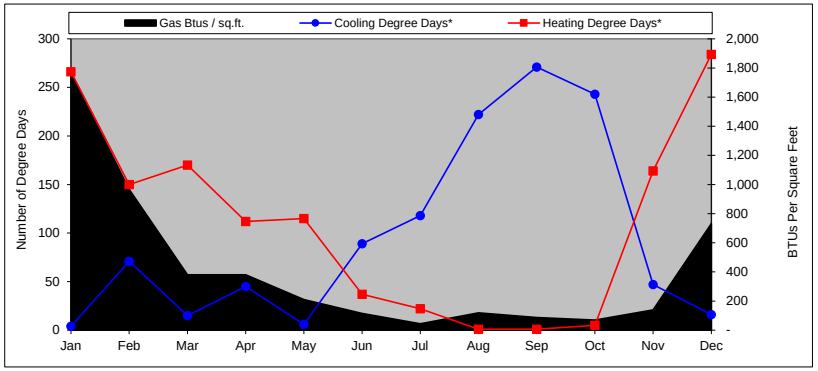
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL ANNUAL (Purchased from SCE)	TOTAL ANNUAL (Purchased from SCE and Solar Production)
Cooling Degree Days*	4	71	15	45	6	89	118	222	271	243	47	16	1,147	
Heating Degree Days*	266	150	170	112	115	37	22	1	1	5	164	284	1,327	
Days in Billing Period														
electric	29	32	30	29	32	30	29	29	32	30	33	30	365	
natural gas	35	32	28	29	29	31	32	29	30	28	32	30	364.5	
Electric Usage														
kWh per Billing Cycle	13,312	12,026	11,576	8,332	10,010	7,842	5,730	9,247	13,421	14,930	14,041	12,389	132,856	358,730
$ for kWh Billed	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
Max kW Billed	96	82	65	70	77	54	29	83	83	83	77	109	76	
$ for kW Billed	$1,321	$1,160	$965	$1,021	$1,104	$853	$488	$1,026	$1,028	$1,030	$969	$1,324	$12,289	
Total Electric Cost, $	$1,321	$1,160	$965	$1,021	$1,104	$853	$488	$1,026	$1,028	$1,030	$969	$1,324	$12,289	
Ave. Daily Electric Cost, $	$46	$36	$32	$35	$35	$28	$17	$35	$32	$34	$29	$44	$ 34	
Average $/kWh Cost	$0.099	$0.096	$0.083	$0.123	$0.110	$0.109	$0.085	$0.111	$0.077	$0.069	$0.069	$0.107	$ 0.093	
Average Elec $ /sq.ft. Cost	$0.022	$0.020	$0.016	$0.017	$0.019	$0.014	$0.008	$0.017	$0.017	$0.017	$0.016	$0.022	$ 0.209	
kWh / sq.ft.	0.226	0.204	0.196	0.141	0.170	0.133	0.097	0.157	0.228	0.253	0.238	0.210	2.25	6.09
Natural Gas Usage														
Therms per Billing Cycle	1,040	570	224	224	124	68	26	70	51	41	82	431	2,951	
Total Gas Cost, $	$861	$516	$234	$232	$143	$96	$55	$90	$79	$67	$108	$395	$ 2,876	
Ave. Daily Gas Cost, $	$25	$16	$8	$8	$5	$3	$2	$3	$3	$2	$3	$13	$ 8	
Average $/therm Cost	$0.828	$0.905	$1.045	$1.036	$1.153	$1.412	$2.115	$1.286	$1.549	$1.634	$1.317	$0.916	$ 0.975	
Average Gas $ /sq.ft. Cost	$0.015	$0.009	$0.004	$0.004	$0.002	$0.002	$0.001	$0.002	$0.001	$0.001	$0.002	$0.007	$ 0.049	
Gas Btus / sq.ft.	1,765	967	380	380	210	115	44	119	87	70	139	731	5,008	
Total Energy Usage														
ombined (Elec and Gas) Btus / sq.ft.	2,536	1,664	1,051	863	790	570	376	654	864	934	952	1,449	12,704	
Total Energy Cost, $	$2,182	$1,676	$1,199	$1,253	$1,247	$949	$543	$1,116	$1,107	$1,097	$1,077	$1,719	$15,165	
Ave. Energy $/sq.ft./period	$0.04	$0.03	$0.02	$0.02	$0.02	$0.02	$0.01	$0.02	$0.02	$0.02	$0.02	$0.03	$0.26	

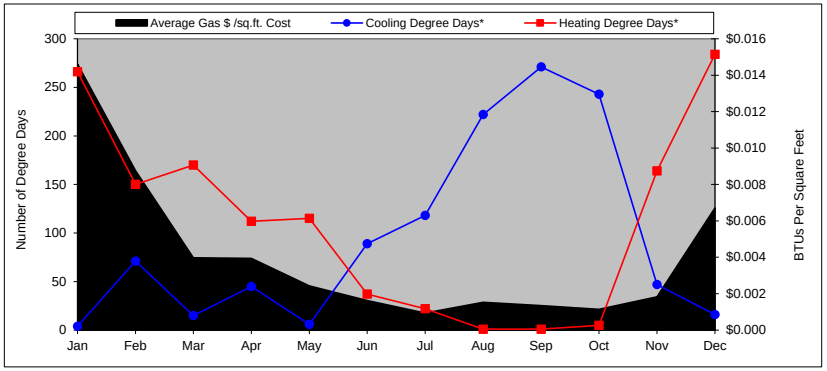
* Notes:
1) Heating degree days and cooling degree days are based on 65 F.
2) Heating degree days and cooling degree days are based on Santa Monica weather data.

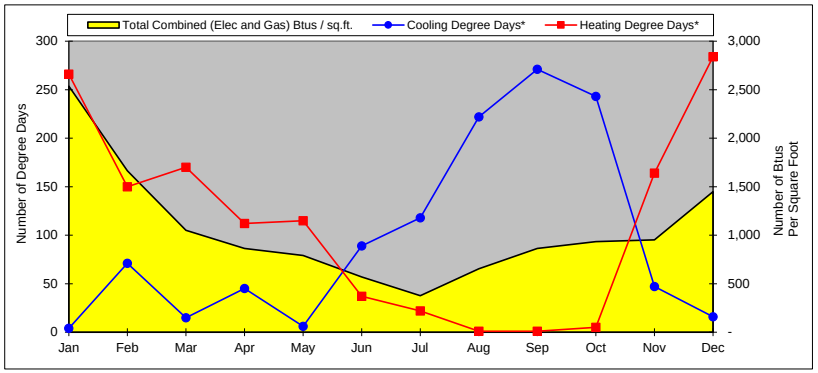
Customer: Santa Monica-Malibu USD **Energy Used from:** Jul-15
Building: Roosevelt Elementary **to:** Jun-16

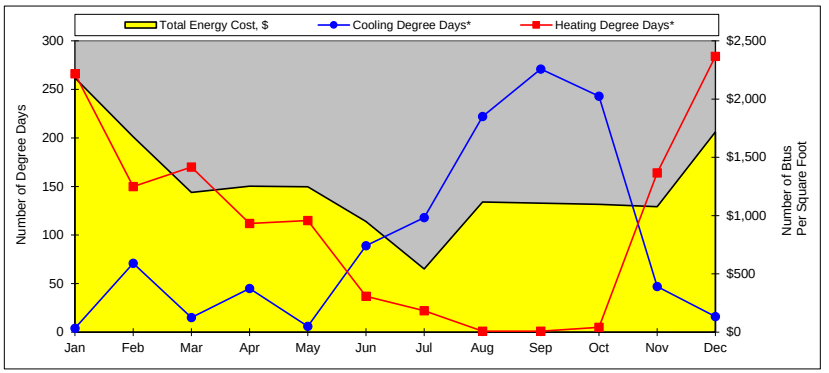












Utility-Roosevelt
Gas-Ele Charts
5/17/2017

Appendix – C

Lighting Systems Audit

cost per kwh 0.093

School Distri Santa Monica-Malibu USD - LED Option
Address: 0
0
School: ROOSEVELT ELEMENTARY
School Addre 801 MONTANA AVE
0

LED Option

80.64 41.25 170,766.54 83,742.00 87,024.54 **$ 8,093.28**

ORIGINAL AUDIT ID#	INTERIOR/EXTERIOR	SCHOOL DISTRICT	SCHOOL	ROOM	LIGHTING CODE (EXISTING)	ECM	PROPOSED FIXT QTY	EXIST WATT	PROP WATT	EXIST OPER HRS	PROP OPER HRS	EXISTING KW	PROPOSED KW	EXISTING KWH	PROPOSED KWH	SAVED KWH	ANN SAVINGS
1715	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	ADMINISTRATION	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN AN	22	90	48	2185	2185	1.98	1.056	4326.3	2307.36	2018.94	$ 187.76
1716	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	ADMINISTRATION	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	4	87	48	2185	2185	0.348	0.192	760.38	419.52	340.86	$ 31.70
1717	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	ADMINISTRATION	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	3	59	32	2185	2185	0.177	0.096	386.745	209.76	176.985	$ 16.46
1718	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	ADMINISTRATION	I/S-A19-60W-1L-NONE-X-X	(LED) 1L GREEN CREATIVE A19 9W E26 4000K 850 LM DI	1	60	9	2185	2185	0.06	0.009	131.1	19.665	111.435	$ 10.36
1719	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	631 CUSTODIAN	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	400	400	0.031	0.016	12.4	6.4	6	$ 0.56
1720	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	617 SERVER	T12-4'-34RW-1L-MB/IS-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	48	16	2185	2185	0.048	0.016	104.88	34.96	69.92	$ 6.50
1721	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	617 SERVER	I/S-A19-90RW-1L-NONE-X-X	(LED)1L A19 14W 5000K E26, 455717	1	90	14	2185	2185	0.09	0.014	196.65	30.59	166.06	$ 15.44
1722	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	101	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN AN	3	90	48	1816	1816	0.27	0.144	490.32	261.504	228.816	$ 21.28
1723	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	101	CF/4P-DOUB-13W-2L-EB-X-X	(LED)2L GREEN CREATIVE 4 PIN PLUG & PLAY 40820 11F	2	28	22	1816	1816	0.056	0.044	101.696	79.904	21.792	$ 2.03
1724	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	101	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	2	59	32	1816	1816	0.118	0.064	214.288	116.224	98.064	$ 9.12
1725	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	3	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$ 92.21
1726	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	3	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1727	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	4	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$ 92.21
1728	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	4	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1729	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	6	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	20	87	48	1816	1816	1.74	0.96	3159.84	1743.36	1416.48	$ 131.73
1730	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	6	CF/S-TWST-23W-1L-SELF-X-X	(LED)1L GREEN CREATIVE 12A19G4DIM/840 (16177) (REL	1	23	12	1816	1816	0.023	0.012	41.768	21.792	19.976	$ 1.86
1731	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	5	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$ 92.21
1732	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	5	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	2	59	32	1816	1816	0.118	0.064	214.288	116.224	98.064	$ 9.12
1733	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	EXTERIOR	HPS-MED-150W-1L-CWA-X-X	(LED)NEW DECO MEDIUM WALLPACK D414-LED-40-50-U	23	188	40	3650	3650	4.324	0.92	15782.6	3358	12424.6	$ 1,155.49
1734	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	1	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN AN	12	90	48	1816	1816	1.08	0.576	1961.28	1046.016	915.264	$ 85.12
1735	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	EXTERIOR	CF/4P-DOUB-26W-1L-EB-X-X	(LED)NEW DECO 20W PORCHLIGHT WALLPACK D411-LE	6	27	20	3650	3650	0.162	0.12	591.3	438	153.3	$ 14.26
1736	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	2	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN AN	12	90	48	1816	1816	1.08	0.576	1961.28	1046.016	915.264	$ 85.12
1737	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	EXTERIOR	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	56	59	32	3650	3650	3.304	1.792	12059.6	6540.8	5518.8	$ 513.25
1738	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	COUNSELOR	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN AN	4	90	48	1816	1816	0.36	0.192	653.76	348.672	305.088	$ 28.37
1739	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	103	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN AN	9	90	48	1816	1816	0.81	0.432	1470.96	784.512	686.448	$ 63.84
1740	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	RESTROOM	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	18161	18161	0.059	0.032	1071.499	581.152	490.347	$ 45.60
1741	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	AUDITORIUM	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	30	87	48	1886	1886	2.61	1.44	4922.46	2715.84	2206.62	$ 205.22
1742	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	AUDITORIUM	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	6	112	64	1886	1886	0.672	0.384	1267.392	724.224	543.168	$ 50.51
1743	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	AUDITORIUM	CF/S-TWST-23W-1L-SELF-X-X	(LED) 1L GREEN CREATIVE A19 9W E26 4000K 850 LM DI	7	23	9	1886	1886	0.161	0.063	303.646	118.818	184.828	$ 17.19
1744	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	PHYSCOLOGIST	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	10	59	32	2185	2185	0.59	0.32	1289.15	699.2	589.95	$ 54.87
1745	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	PHYSCOLOGIST	I/S-A19-60W-1L-NONE-X-X	(LED) 1L GREEN CREATIVE A19 9W E26 4000K 850 LM DI	2	60	9	2185	2185	0.12	0.018	262.2	39.33	222.87	$ 20.73
1746	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	PHYSCOLOGIST	CF/S-TWST-23W-1L-SELF-X-X	(LED)1L GREEN CREATIVE 12A19G4DIM/840 (16177) (REL	2	23	12	2185	2185	0.046	0.024	100.51	52.44	48.07	$ 4.47
1747	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	EXTERIOR	I/S-A19-60W-1L-NONE-X-X	(LED)1L A19 8W 5000K E26, 455600	1	60	8	3650	3650	0.06	0.008	219	29.2	189.8	$ 17.65
1748	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	AUDITORIUM	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	4	87	48	1886	1886	0.348	0.192	656.328	362.112	294.216	$ 27.36
1749	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	AUDITORIUM	I/S-R40-75W-1L-NONE-X-X	(LED)NEW DECO 20W 14" DECORATIVE ROUND D421-20	2	75	20	1886	1886	0.15	0.04	282.9	75.44	207.46	$ 19.29
1750	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	STAFF RESTROOMS	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	6	59	32	1816	1816	0.354	0.192	642.864	348.672	294.192	$ 27.36
1751	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	AUDITORIUM	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	2	59	32	1886	1886	0.118	0.064	222.548	120.704	101.844	$ 9.47
1752	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	EXTERIOR	CF/4P-DOUB-26W-2L-EB-X-X	(LED)2L 18.5W 4 PIN LED19GX24q-H/840 HORIZONTAL (R	6	51	37	3650	3650	0.306	0.222	1116.9	810.3	306.6	$ 28.51
1753	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	EXTERIOR	HPS-MED-150W-1L-CWA-X-X	(LED)1L GREEN CREATIVE 98W HID/840/277/EX39 COB-B	3	188	98	3650	3650	0.564	0.294	2058.6	1073.1	985.5	$ 91.65
1754	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	CAFETERIA	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	16	112	64	1696	1696	1.792	1.024	3039.232	1736.704	1302.528	$ 121.14
1755	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	CAFETERIA	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN-EM	10	118	64	1696	1696	1.18	0.64	2001.28	1085.44	915.84	$ 85.17
1756	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	CAFETERIA	EX/CFL-S/G-7W-1L-MB-A/C-X	(LED)NEW Precision-Paragon LED EXIT XLS-G	1	11	2	8760	8760	0.011	0.002	96.36	17.52	78.84	$ 7.33
1757	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	CAFETERIA	I/S-A19-60W-1L-NONE-X-X	(LED) 1L GREEN CREATIVE A19 9W E26 4000K 850 LM DI	3	60	9	1696	1696	0.18	0.027	305.28	45.792	259.488	$ 24.13
1758	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	CAFETERIA	I/S-A19-60W-1L-NONE-X-X	(LED)1L A19 8W 5000K E26, 455600	2	60	8	1696	1696	0.12	0.016	203.52	27.136	176.384	$ 16.40
1759	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	CAFETERIA	CF/S-TWST-13W-1L-SELF-X-X	(LED)1L A19 8W 5000K E26, 455600	4	13	8	1696	1696	0.052	0.032	88.192	54.272	33.92	$ 3.15
1760	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	CAFETERIA	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	10	59	32	1696	1696	0.59	0.32	1000.64	542.72	457.92	$ 42.59
1761	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	LOUNGE	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	6	59	32	1696	1696	0.354	0.192	600.384	325.632	274.752	$ 25.55
1762	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	EXTERIOR	HPS-MOG-250W-1L-CWA-X-X	(LED)NEW DECO MEDIUM FLOOD D211-LED-60-50-UNV-T	2	295	60	3650	3650	0.59	0.12	2153.5	438	1715.5	$ 159.54
1763	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	EXTERIOR	I/S-R38-75W-1L-NONE-X-X	(LED)1L GREEN CREATIVE 12.5PAR30G4DIM940FL40, 16	3	75	13	3650	3650	0.225	0.0375	821.25	136.875	684.375	$ 63.65
1764	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	RESTROOM	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	3	59	32	1816	1816	0.177	0.096	321.432	174.336	147.096	$ 13.68
1765	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	505	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1766	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	505	I/S-A19-60W-1L-NONE-X-X	(LED) 1L GREEN CREATIVE A19 9W E26 4000K 850 LM DI	1	60	9	1816	1816	0.06	0.009	108.96	16.344	92.616	$ 8.61
1767	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	CUSTODIAN	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	400	400	0.059	0.032	23.6	12.8	10.8	$ 1.00
1768	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	14	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$ 92.21
1769	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	14	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1770	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	15	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$ 92.21
1771	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	15	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1772	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	16	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$ 92.21
1773	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	16	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1774	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	17	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$ 92.21
1775	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	17	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1776	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	502	T12-4'-34RW-2L-MB/IS-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	2	72	32	1816	1816	0.144	0.064	261.504	116.224	145.28	$ 13.51
1777	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	502	I/S-A19-60W-1L-NONE-X-X	(LED) 1L GREEN CREATIVE A19 9W E26 4000K 850 LM DI	1	60	9	1816	1816	0.06	0.009	108.96	16.344	92.616	$ 8.61
1778	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	7	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	12	59	32	1816	1816	0.708	0.384	1285.728	697.344	588.384	$ 54.72
1779	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	EXTERIOR	I/S-A19-60W-1L-NONE-X-X	(LED)NEW DECO WALLPACK CUTOFF VINCI-20-50-UNV-E	10	60	20	3650	3650	0.6	0.2	2190	730	1460	$ 135.78
1780	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	8	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$ 92.21
1781	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	8	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1782	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	302	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	4	87	48	1816	1816	0.348	0.192	631.968	348.672	283.296	$ 26.35
1783	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	ELECTRICAL	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	400	400	0.031	0.016	12.4	6.4	6	$ 0.56
1784	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	STAFF RESTROOMS	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	4	59	32	1816	1816	0.236	0.128	428.576	232.448	196.128	$ 18.24
1785	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	39	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	1816	1816	0.059	0.032	107.144	58.112	49.032	$ 4.56
1786	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	9	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$ 92.21
1787	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	9	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1788	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	10	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	16	87	48	1816	1816	1.392	0.768	2527.872	1394.688	1133.184	$ 105.39
1789	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	10	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1790	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	11	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	16	87	48	1816	1816	1.392	0.768	2527.872	1394.688	1133.184	$ 105.39
1791	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	11	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1792	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	12	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	16	87	48	1816	1816	1.392	0.768	2527.872	1394.688	1133.184	$ 105.39
1793	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	12	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$ 2.53
1794	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	301	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	2	112	64	1816	1816	0.224	0.128	406.784	232.448	174.336	$ 16.21
1795	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MO	13	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	16	87	48	1816	1816	1.392	0.768	2527.872	1394.688	1133.184	$ 105.39

1796	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	13	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$	2.53
1797	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	PE OFFICE	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	5	59	32	1816	1816	0.295	0.16	535.72	290.56	245.16	$	22.80
1798	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	EXTERIOR	CF/4P-TRIP-32W-1L-EB-X-X	(LED)NEW DECO 20W PORCHLIGHT WALLPACK D411-LE	4	35	20	3650	3650	0.14	0.08	511	292	219	$	20.37
1799	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	26	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	10	59	32	1816	1816	0.59	0.32	1071.44	581.12	490.32	$	45.60
1800	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	25	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	10	59	32	1816	1816	0.59	0.32	1071.44	581.12	490.32	$	45.60
1801	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	24	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	10	59	32	1816	1816	0.59	0.32	1071.44	581.12	490.32	$	45.60
1802	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	23	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	10	59	32	1816	1816	0.59	0.32	1071.44	581.12	490.32	$	45.60
1803	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	22	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	10	59	32	1816	1816	0.59	0.32	1071.44	581.12	490.32	$	45.60
1804	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	RESTROOM	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	4	59	32	1816	1816	0.236	0.128	428.576	232.448	196.128	$	18.24
1805	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	CUSTODIAN	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	400	400	0.059	0.032	23.6	12.8	10.8	$	1.00
1806	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	CUSTODIAN	I/S-A19-60W-1L-NONE-X-X	(LED) 1L GREEN CREATIVE A19 9W E26 4000K 850 LM DI	1	60	9	400	400	0.06	0.009	24	3.6	20.4	$	1.90
1807	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	18	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$	92.21
1808	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	18	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$	2.53
1809	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	19	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$	92.21
1810	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	19	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$	2.53
1811	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	20	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$	92.21
1812	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	20	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$	2.53
1813	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	21	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	14	87	48	1816	1816	1.218	0.672	2211.888	1220.352	991.536	$	92.21
1814	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	21	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	31	16	1816	1816	0.031	0.016	56.296	29.056	27.24	$	2.53
1815	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	LIBRARY	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	20	112	64	1816	1816	2.24	1.28	4067.84	2324.48	1743.36	$	162.13
1816	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	LIBRARY	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	23	59	32	1816	1816	1.357	0.736	2464.312	1336.576	1127.736	$	104.88
1817	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	27	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	18	87	48	1816	1816	1.566	0.864	2843.856	1569.024	1274.832	$	118.56
1818	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	28	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	15	90	48	1816	1816	1.35	0.72	2451.6	1307.52	1144.08	$	106.40
1819	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	28	T12-4'-34RW-2L-MB/IS-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	72	32	1816	1816	0.072	0.032	130.752	58.112	72.64	$	6.76
1820	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	29	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	15	90	48	1816	1816	1.35	0.72	2451.6	1307.52	1144.08	$	106.40
1821	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	29	T12-4'-34RW-2L-MB/IS-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	72	32	1816	1816	0.072	0.032	130.752	58.112	72.64	$	6.76
1822	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	30	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	15	90	48	1816	1816	1.35	0.72	2451.6	1307.52	1144.08	$	106.40
1823	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	30	T12-4'-34RW-2L-MB/IS-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	72	32	1816	1816	0.072	0.032	130.752	58.112	72.64	$	6.76
1824	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	38	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	12	59	32	1816	1816	0.708	0.384	1285.728	697.344	588.384	$	54.72
1825	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	39	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	12	59	32	1816	1816	0.708	0.384	1285.728	697.344	588.384	$	54.72
1826	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	40	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	12	59	32	1816	1816	0.708	0.384	1285.728	697.344	588.384	$	54.72
1827	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	41	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	12	59	32	1816	1816	0.708	0.384	1285.728	697.344	588.384	$	54.72
1828	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	EXTERIOR	CF/4P-TRIP-32W-1L-EB-X-X	(LED)NEW DECO 20W PORCHLIGHT WALLPACK D411-LE	2	35	20	3650	3650	0.07	0.04	255.5	146	109.5	$	10.18
1829	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	37	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	15	90	48	1816	1816	1.35	0.72	2451.6	1307.52	1144.08	$	106.40
1830	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	37	T12-4'-34RW-2L-MB/IS-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	72	32	1816	1816	0.072	0.032	130.752	58.112	72.64	$	6.76
1831	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	36	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	15	90	48	1816	1816	1.35	0.72	2451.6	1307.52	1144.08	$	106.40
1832	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	35	T8-4'-32W-3L-EB/ISN-I/O-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	15	90	48	1816	1816	1.35	0.72	2451.6	1307.52	1144.08	$	106.40
1833	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	36	T12-4'-34RW-2L-MB/IS-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	72	32	1816	1816	0.072	0.032	130.752	58.112	72.64	$	6.76
1834	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	35	T12-4'-34RW-2L-MB/IS-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	72	32	1816	1816	0.072	0.032	130.752	58.112	72.64	$	6.76
1835	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	113	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	1816	1816	0.059	0.032	107.144	58.112	49.032	$	4.56
1836	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	112	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	1816	1816	0.059	0.032	107.144	58.112	49.032	$	4.56
1837	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	34	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	18	87	48	1816	1816	1.566	0.864	2843.856	1569.024	1274.832	$	118.56
1838	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	33	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	18	87	48	2100	2100	1.566	0.864	3288.6	1814.4	1474.2	$	137.10
1839	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	MECHANICAL	I/S-A19-60W-1L-NONE-X-X	(LED) 1L GREEN CREATIVE A19 9W E26 4000K 850 LM DI	1	60	9	400	400	0.06	0.009	24	3.6	20.4	$	1.90
1840	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	32	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	18	87	48	1816	1816	1.566	0.864	2843.856	1569.024	1274.832	$	118.56
1841	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	31	T8-4'-32W-3L-EB/ISN-X-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	18	87	48	1816	1816	1.566	0.864	2843.856	1569.024	1274.832	$	118.56
1842	INTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	116	CF/S-TWST-23W-1L-SELF-X-X	(LED)1L GREEN CREATIVE 12A19G4DIM/840 (16177) (REL	1	23	12	1816	1816	0.023	0.012	41.768	21.792	19.976	$	1.86
1843	EXTERIOR	NTA MONICA-MALIBU U	ROOSEVELT ELEMENTARY 801 MOI	PARKING	HPS-MOG-250W-1L-CWA-X-X	(LED)NEW DECO 60W SHOEBOX D816-LED-60-50-UNV-T3	6	295	60	3650	3650	1.77	0.36	6460.5	1314	5146.5	$	478.62
												80.638	41.2465	170766.542	83741.998	87024.544	$	8,093.28

		kW saved		kWh saved	$ saved
EXTERIOR	12.12	4.19	7.9215	28,913.48	2,688.95
EXIT SIGNS	0.011	0.002	0.009	78.84	7.33212
INTERIOR	67.55	36.89	30.66	**56,663**	**$ 5,269.61**
INCAND to LED	0.96	0.16	**0.80**	1,369.73	127.38
			39.3915	**87,025**	**$ 8,093.28**