



Your Partner for Green Facilities, Sustainability and Clean Technologies

ENERGY EXPENDITURE PLAN



John Adams Middle School

2425 16th Street

Santa Monica, CA 90405

P: (310) 452-2326

PREPARED FOR:

California Energy Commission
Energy Division
Local Assistance and Financing Office, MS-23
1516 Ninth Street
Sacramento, Ca 95814



PREPARED ON:
5/16/2017

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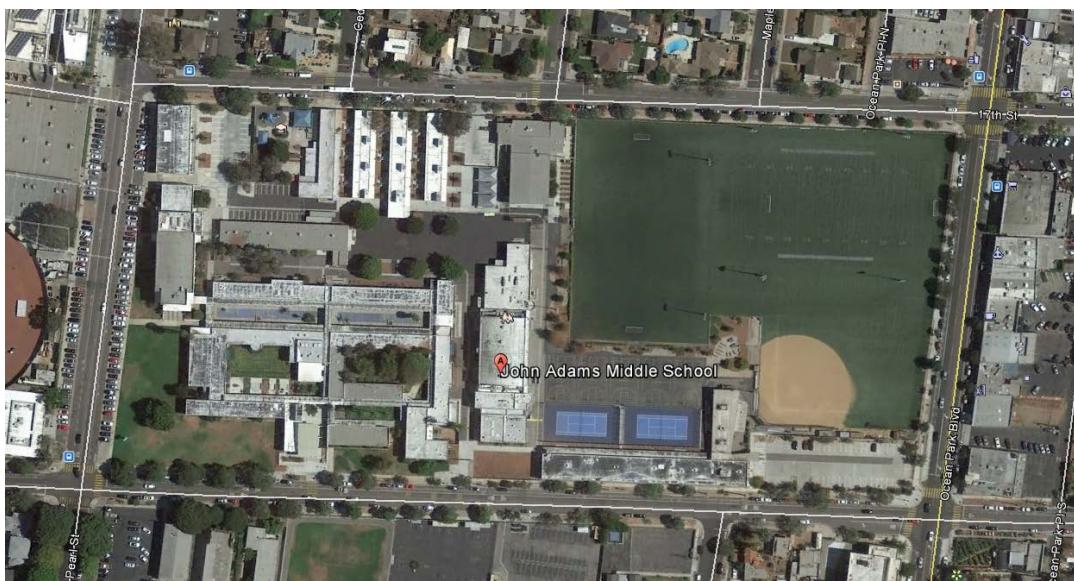
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Section 1: Facility Background

John Adams Middle School

John Adams Middle School is located at 2425 16th Street in Santa Monica, CA 90405. It is a middle school serving approximately 1,065 students ranging from grades 6-8 and provides instruction using 18 permanent buildings. The total amount of occupied space is 130,093 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 7:30 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 John Adams Middle 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 John Adams Middle School:

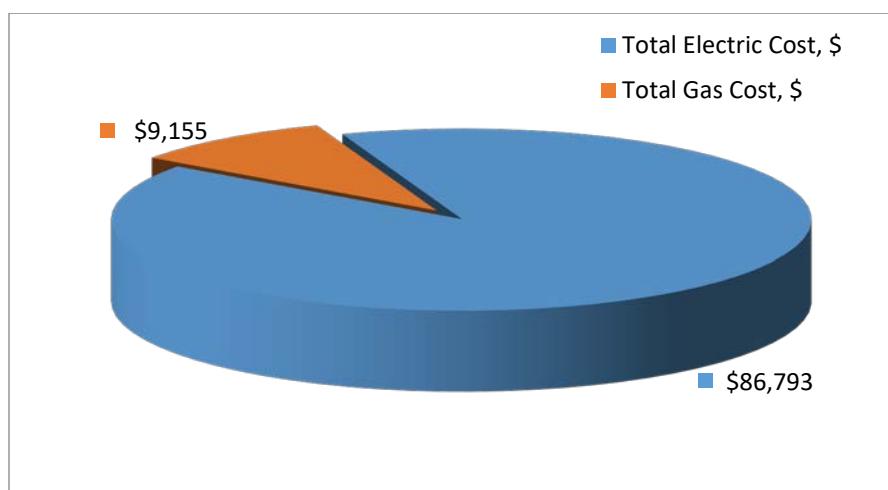
Table 1: Electric Meter Numbers and Rate Schedules

Account Number	Meter Number	Rate Schedule
3-008-4846-80	259000-016524	TOU-GS-2-A
3-001-9056-10	259000-046562	TOU-GS-2-B

Table 2: Gas or Propane Meter Numbers and Rate Schedules

Account Number	Meter Number	Rate Schedule
1067037000	11030575	GN-10
1383048200	4476588	GN-10

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 John Adams Middle 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 John Adams Middle School:

Energy Use Intensity Calculator					
Electricity		Natural Gas		Other Fuels	
1.20	W/SF	0.09	Therms/SF	0.00	Gals/SF
4.31	kWh/SF	\$ 0.07	Cost/SF	\$ 0.00	Cost/SF
\$ 0.67	Cost/SF				
Energy Costs/SF/Year		\$ 0.74	Energy Use(Kbtu)/SF/Year		54.81

The main purpose of this report is to assess the current energy usage of John Adams Middle 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 4.31 kWh/SF/yr.

The baseline EUA summary of all the meters for John Adams Middle 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 difference 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	59	116,736		\$18,094.00	\$150,000.00	\$298,757.00
Lighting	Lighting – Exterior Fixture Retrofit	14	50,397		\$7,812.00	\$62,000.00	\$124,050.00
Lighting	Lighting – Retrofit Interior Lamps to LED	0	430		\$67.00	\$0.00	\$1,149.00
	Totals	73	167,563		\$25,973.00	\$212,000.00	\$423,956.00

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:

$$\text{Annual Saving, } \$ = (\text{Existing Watts} - \text{New Watts}) / 1000 \times \text{Hours/Year} \times \text{Utility Rate} \times N$$

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 John Adams Middle School buildings consist of a combination of 1st generation T-8, T-5, 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 John Adams Middle School buildings consist of compact fluorescent, 1st generation T-8, metal halide, ceramic metal halide, 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 72.537 kW and 167,563 kWh per year. The cost savings per year will be approximately \$25,972.28. 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

Block Schedule		Late Start Schedule	
Monday through Thursday		Fridays	
PERIOD	TIME	PERIOD	TIME
A Period	7:30-8:15 AM	Staff In-Service	7:45-9:00 AM
BLOCK 1/2	8:19-10:01 AM	1	9:24-10:10 AM
Book Drop	10:01-10:06 AM	2	10:15-10:57 AM
Nutrition	10:06-10:21 AM	Book Drop	10:57-11:02 AM
BLOCK 3/4	10:26-11:58 AM	Nutrition	11:02-11:17 AM
Book Drop 6/7	11:58AM-12:03 PM	3	11:22 AM-12:04 PM
Lunch 6/7	12:03-12:43 PM	4	12:09-12:51 PM
Advisory 6/7	12:48-1:23 PM	Book Drop	12:51-12:56 PM
Advisory 8	12:03-12:38 PM	Lunch	12:56-1:26 PM
Book Drop 8	12:38-12:43 PM	5	1:31-2:13 PM
Lunch 8	12:43-1:23 PM	6	2:18-3:00 PM
BLOCK 5/6	1:28-3:00 PM		

SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT

2016-2017 District Calendar

July 2016							Approved by the Board of Education: 3/19/15							September 2016							
M	T	W	Th	F			M	T	W	Th	F		M	T	W	Th	F				
4	5	6	7	8			1	2	3	4	5		5	6	7	8	9				
11	12	13	14	15			8	9	10	11	12		12	13	14	15	16				
18	19	20	21	22			15	16	17	18	19		19	20	21	22	23				
25	26	27	28	29	30		23	24	25	26	27		26	27	28	29	30				
October 2016							November 2016							December 2016							
M	T	W	Th	F			M	T	W	Th	F		M	T	W	Th	F				
4	5	6	7	8			1	2	3	4	5		5	6	7	8	9				
10	11	12	13	14			8	9	10	11	12		12	13	14	15	16				
17	18	19	20	21			14	15	16	17	18		19	20	21	22	23				
24	25	26	27	28	29		21	22	23	24	25		26	27	28	29	30				
January 2017							February 2017							March 2017							
M	T	W	Th	F			M	T	W	Th	F		M	T	W	Th	F				
2	3	4	5	6			1	2	3	4	5		5	6	7	8	9				
9	10	11	12	13	14		8	9	10	11	12		13	14	15	16	17				
16	17	18	19	20	21		13	14	15	16	17		20	21	22	23	24				
23	24	25	26	27	28		20	21	22	23	24		27	28	29	30	31				
April 2017							May 2017							June 2017							
M	T	W	Th	F			M	T	W	Th	F		M	T	W	Th	F				
3	4	5	6	7			1	2	3	4	5		5	6	7	8	9				
10	11	12	13	14	15		8	9	10	11	12		12	13	14	15	16				
17	18	19	20	21	22		15	16	17	18	19		19	20	21	22	23				
24	25	26	27	28	29		20	30	31				26	27	28	29	30				



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 17, 2016

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 (Admission's Day observ)

Dec. 26, 27: Winter Holidays

Dec. 30-Jan. 2: Keiki Years Holidays

Jan. 16: Martin Luther King Jr. Holiday

Feb. 20: Presidents' Day Holiday

April 2: Local Holiday

April 24: Legal Holiday (Lincoln's B'day observed)

May 29: Memorial Day Holiday

SCHOOL RECESS:

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 Student's Clink

Jan. 9: Secondary Student's Only

MINIMUM DAYS:

TK/Kinderparent: 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

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, 2016

STAR: April 20 - May 18, 2017

SBAC: April 20 - May 29, 2017

TK/Kinder 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:

IIS: 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

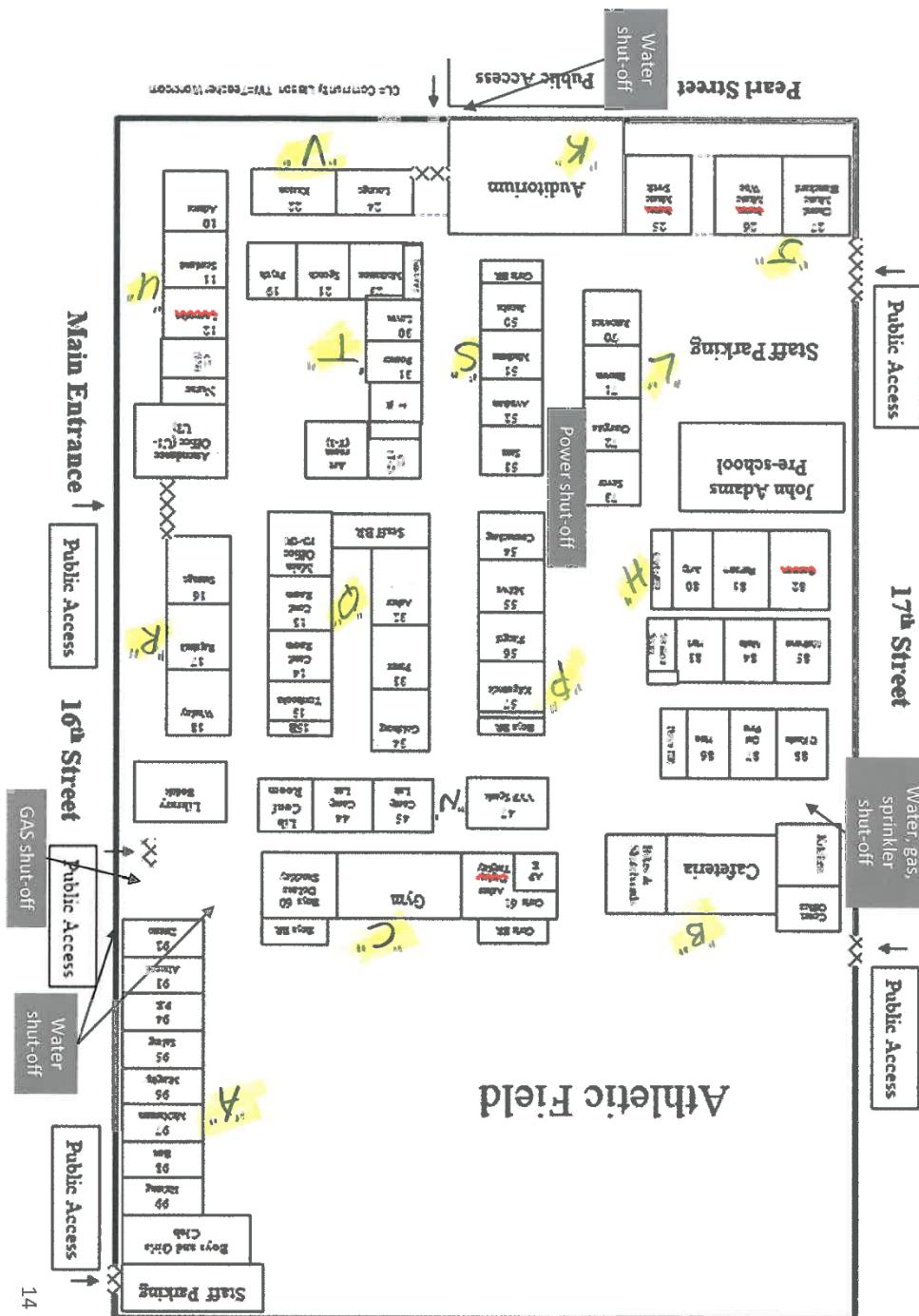
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SANTA MONICA-MALIBU
JOHN ADAMS MIDDLE SCHOOL
ENERGY AUDIT REPORT

John Adams Middle School Map

John Adams School Map / Mapa de la escuela



Appendix – B

Energy Utilization Analysis

Customer Name: **Santa Monica-Malibu USD**Facility Name: **John Adams Middle**

Facility Location: 2425 16th Street, Santa Monica, CA
 Sq. Ft. (conditioned space): 130,093
 Billing Period
 FROM: Jul-15
 TO: Jun-16

Elec Utility Name: **SCE** Natural Gas Utility Name: **SCG**

Account #	Meter #	Rate Schedule	Account #	Meter #	Rate Schedule
2-07-030-4431	259000-016524	TOU-GS-2-A	6307342052	11030575	GN-10-NON-RESIDENTIAL
2-07-030-4431	259000-046562	TOU-GS-2-B	6307342052	4476588	GN-10-NON-RESIDENTIAL
0	0	0	0	0	0
0	0	0	0	0	0

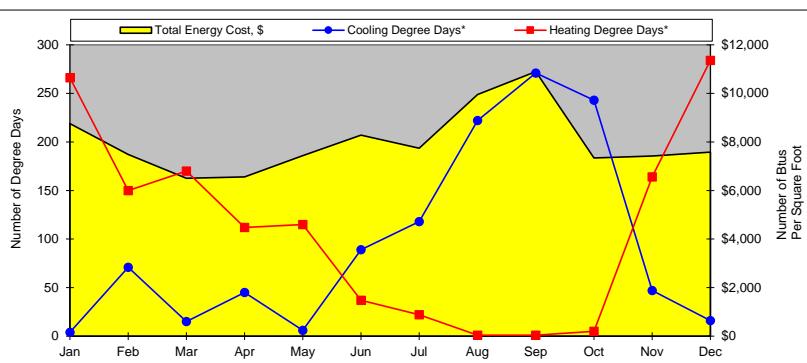
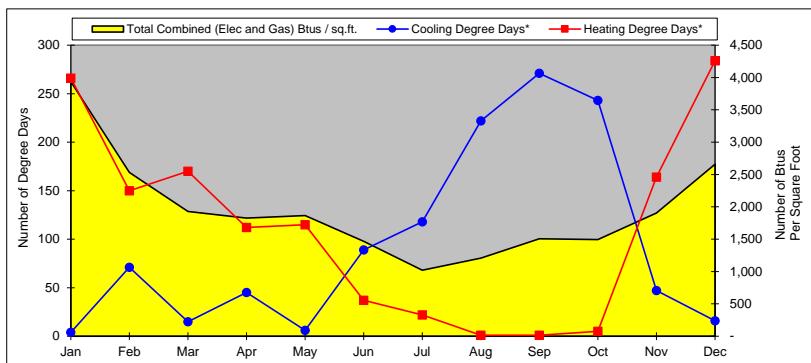
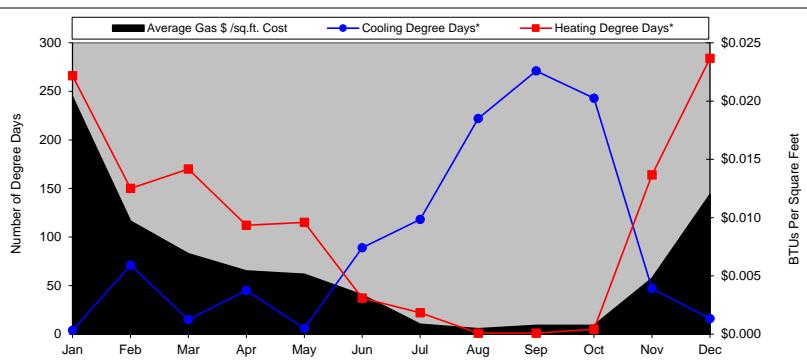
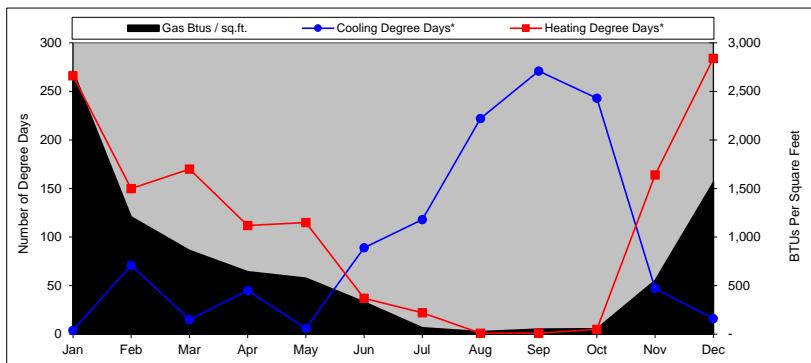
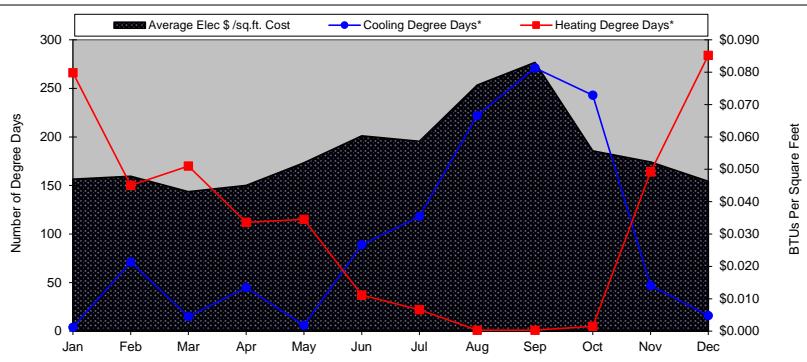
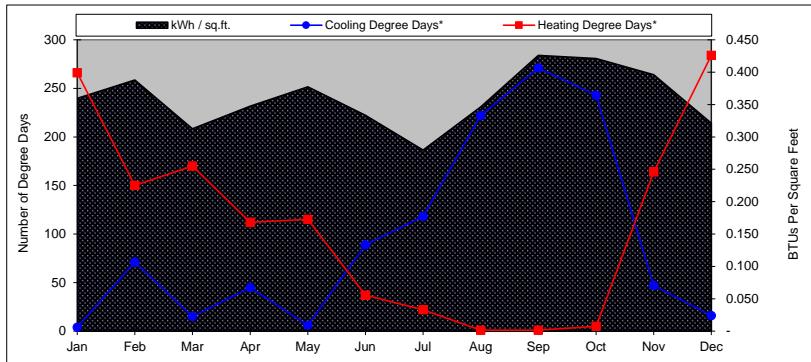
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL ANNUAL
Cooling Degree Days*	4	71	15	45	6	89	118	222	271	243	47	16	1,147
Heating Degree Days*	266	150	170	112	115	37	22	1	1	5	164	284	1,327
Days in Billing Period													
electric	29	32	30	29	32	30	29	29	32	30	33	30	365
natural gas	31	32	29	29	30	31	30	29	32	28	30	34	365
Electric Usage													
kWh per Billing Cycle	46,793	50,457	40,657	45,187	49,078	43,364	36,379	45,031	55,408	54,762	51,532	41,803	560,451
\$ for kWh Billed	\$3,631	\$3,855	\$3,188	\$3,528	\$4,246	\$5,289	\$5,435	\$7,137	\$7,924	\$4,999	\$4,643	\$3,687	\$57,562
Max kW Billed	164	157	160	154	160	131	115	157	170	163	172		156
\$ for kW Billed	\$2,478	\$2,372	\$2,417	\$2,327	\$2,523	\$2,558	\$2,197	\$2,752	\$2,876	\$2,244	\$2,152	\$2,335	\$29,231
Total Electric Cost, \$	\$6,109	\$6,227	\$5,605	\$5,855	\$6,769	\$7,847	\$7,632	\$9,889	\$10,800	\$7,243	\$6,795	\$6,022	\$86,793
Ave. Daily Electric Cost, \$	\$211	\$195	\$187	\$202	\$212	\$262	\$263	\$341	\$338	\$241	\$206	\$201	\$238
Average \$/kWh Cost	\$0.131	\$0.123	\$0.138	\$0.130	\$0.138	\$0.181	\$0.210	\$0.220	\$0.195	\$0.132	\$0.132	\$0.144	\$0.155
Average Elec \$ /sq.ft. Cost	\$0.047	\$0.048	\$0.043	\$0.045	\$0.052	\$0.060	\$0.059	\$0.076	\$0.083	\$0.056	\$0.052	\$0.046	\$0.067
kWh / sq.ft.	0.360	0.388	0.313	0.347	0.377	0.333	0.280	0.346	0.426	0.421	0.396	0.321	4.31
Natural Gas Usage													
Therms per Billing Cycle	3,523	1,571	1,122	835	750	430	85	33	67	73	719	2,032	11,240
Total Gas Cost, \$	\$2,648	\$1,261	\$896	\$704	\$667	\$436	\$111	\$60	\$96	\$97	\$623	\$1,556	\$9,155
Ave. Daily Gas Cost, \$	\$85	\$39	\$31	\$24	\$22	\$14	\$4	\$2	\$3	\$3	\$21	\$46	\$25
Average \$/therm Cost	\$0.752	\$0.803	\$0.799	\$0.843	\$0.889	\$1.014	\$1.306	\$1.818	\$1.433	\$1.329	\$0.866	\$0.766	\$0.815
Average Gas \$ /sq.ft. Cost	\$0.020	\$0.010	\$0.007	\$0.005	\$0.005	\$0.003	\$0.001	\$0.000	\$0.001	\$0.001	\$0.005	\$0.012	\$0.070
Gas Btus / sq.ft.	2,708	1,208	862	642	577	331	65	25	52	56	553	1,562	8,640
Total Energy Usage													
combined (Elec and Gas) Btus / sq.ft.	3,936	2,531	1,929	1,827	1,864	1,468	1,020	1,207	1,505	1,493	1,905	2,659	23,343
Total Energy Cost, \$	\$8,757	\$7,488	\$6,501	\$6,559	\$7,436	\$8,283	\$7,743	\$9,949	\$10,896	\$7,340	\$7,418	\$7,578	\$95,948
Ave. Energy \$/sq.ft./period	\$0.07	\$0.06	\$0.05	\$0.05	\$0.06	\$0.06	\$0.06	\$0.08	\$0.08	\$0.06	\$0.06	\$0.06	\$0.74

* 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
Building: John Adams Middle

Energy Used from: Jul-15
to: Jun-16



Appendix – C

Lighting Systems Audit

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SANTA MONICA-MALIBU
JOHN ADAMS MIDDLE SCHOOL
ENERGY AUDIT REPORT

School Distr Santa Monica-Malibu USD - LED Option

Address:

0

School: JOHN ADAMS MIDDLE SCHOOL

School Addr

0

ORIGINAL AUDIT ID#	LED Option													156.22	83.68	348,124.00	180,560.92	167,563.08	\$ 25,972.28
	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		
1054	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	ADMINISTRATION OPEN	T5-4'-28W-2L-EB/PSN-X-X	(LED)2L L48T5/850/24G-EB (1) QHE2X54T5HO/UNV/PSI	22	50	20	2185	2185	1.1	0.44	2403.5	961.4	1442.1	\$ 223.53		
1055	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	11	T8-4'-32W-4L-EB/ISN-IO-X	(LED)4L 12T8/4F/850/DIR, 97740 (2) QHE2X32UNV/ISN	10	118	64	2018	2018	1.18	0.64	2381.24	1291.52	1089.72	\$ 168.91		
1056	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	11	T8-4'-32W-3L-EB/ISN-IO-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN	3	90	48	2018	2018	0.27	0.144	544.86	290.592	254.268	\$ 39.41		
1057	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	11	CF/4P-DOUB-13W-1L-EB-X-X	(LED)1L 11W 4 PIN HN-V-G24Q-B-11W-840-G4 (RELAM	1	15	11	2018	2018	0.015	0.011	30.27	22.198	8.072	\$ 1.25		
1058	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	ADMINISTRATION OPEN	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	2	59	32	2185	2185	0.118	0.064	257.83	139.84	117.99	\$ 18.29		
1059	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	ADMINISTRATION OPEN	T8-4'-32W-3L-EB/ISN-IO-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN	6	90	48	2185	2185	0.54	0.288	1179.9	629.28	550.62	\$ 85.35		
1060	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	ADMINISTRATION OPEN	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	2185	2185	0.059	0.032	128.915	69.92	58.995	\$ 9.14		
1061	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	UO9	T8-4'-32W-3L-EB/ISN-IO-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN	4	90	48	2018	2018	0.36	0.192	726.48	387.456	339.024	\$ 52.55		
1062	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	UO9	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	2018	2018	0.059	0.032	119.062	64.576	54.486	\$ 8.45		
1063	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	12	T8-4'-32W-4L-EB/ISN-IO-X	(LED)4L 12T8/4F/850/DIR, 97740 (2) QHE2X32UNV/ISN	10	118	64	2018	2018	1.18	0.64	2381.24	1291.52	1089.72	\$ 168.91		
1064	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	12	T8-4'-32W-3L-EB/ISN-IO-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN	3	90	48	2018	2018	0.27	0.144	544.86	290.592	254.268	\$ 39.41		
1065	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	12	CF/4P-DOUB-13W-1L-EB-X-X	(LED)1L 11W 4 PIN HN-V-G24Q-B-11W-840-G4 (RELAM	1	15	11	2018	2018	0.015	0.011	30.27	22.198	8.072	\$ 1.25		
1066	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	ADMINISTRATION OPEN	T8-4'-32W-4L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	10	118	64	2018	2018	1.18	0.64	2381.24	1291.52	1089.72	\$ 168.91		
1067	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	10	T8-4'-32W-3L-EB/ISN-IO-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN	3	90	48	2018	2018	0.27	0.144	544.86	290.592	254.268	\$ 39.41		
1068	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	10	CF/4P-DOUB-13W-1L-EB-X-X	(LED)1L 11W 4 PIN HN-V-G24Q-B-11W-840-G4 (RELAM	1	15	11	2018	2018	0.015	0.011	30.27	22.198	8.072	\$ 1.25		
1069	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	19	T12-8'-75W-2L-MB/ISN-X-X	(LED)NEW 8' WRAP W/ (4)12T8/4F/850/DIR AND (1)QHE	1	123	64	2018	2018	0.123	0.064	248.214	129.152	119.062	\$ 18.45		
1070	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	20	CF/2P-SING-13W-2L-MB-X-X	(LED)2L GREEN CREATIVE 2PIN LED DiReCt or BYPass	1	28	11	2018	2018	0.028	0.011	56.504	22.198	34.306	\$ 5.32		
1071	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	21	T8-4'-32W-4L-EB/ISN-IO-X	(LED)4L 12T8/4F/850/DIR, 97740 (2) QHE2X32UNV/ISN	13	118	64	2018	2018	1.534	0.832	3095.612	1678.976	1416.636	\$ 219.58		
1072	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	22	T8-4'-32W-4L-EB/ISN-IO-X	(LED)4L 12T8/4F/850/DIR, 97740 (2) QHE2X32UNV/ISN	13	118	64	2018	2018	1.534	0.832	3095.612	1678.976	1416.636	\$ 219.58		
1073	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	23	T8-4'-32W-4L-EB/ISN-IO-X	(LED)4L 12T8/4F/850/DIR, 97740 (2) QHE2X32UNV/ISN	13	118	64	2018	2018	1.534	0.832	3095.612	1678.976	1416.636	\$ 219.58		
1074	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	24	T8-4'-32W-4L-EB/ISN-IO-X	(LED)4L 12T8/4F/850/DIR, 97740 (2) QHE2X32UNV/ISN	13	118	64	2018	2018	1.534	0.832	3095.612	1678.976	1416.636	\$ 219.58		
1075	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	24	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	2018	2018	0.059	0.032	119.062	64.576	54.486	\$ 8.45		
1076	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	22A LOCKED	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	3	112	64	2018	2018	0.336	0.192	678.048	387.456	290.592	\$ 45.04		
1077	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	30	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	15	59	32	2018	2018	0.885	0.48	1785.93	968.64	817.29	\$ 126.68		
1078	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	31	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	14	59	32	2018	2018	0.826	0.448	1666.868	904.064	762.804	\$ 118.23		
1079	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	31A	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	1	112	64	2018	2018	0.112	0.064	226.016	129.152	96.864	\$ 15.01		
1080	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	T04	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	4	59	32	2018	2018	0.236	0.128	476.248	258.304	217.944	\$ 33.78		
1081	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	T04	T8-4'-32W-3L-EB/ISN-IO-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN	2	90	48	2018	2018	0.18	0.096	363.24	193.728	169.512	\$ 26.27		
1082	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	T04	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	2018	2018	0.059	0.032	119.062	64.576	54.486	\$ 8.45		
1083	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	T03	T8-4'-32W-3L-EB/ISN-IO-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN	2	90	48	2018	2								

1140	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	STUDENT STORE	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	2	59	32	800	800	0.118	0.064	94.4	51.2	43.2	\$ 6.70
1141	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	FO1	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	1	112	64	2018	2018	0.112	0.064	226.016	129.152	96.864	\$ 15.01
1142	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	83	T5-4'-28W-2L-EB/PSN-X-X	(LED)2L L48T5/850/24G-EB (1) QHE2X54T5HO/UNV/PSN	19	50	20	2018	2018	0.95	0.38	1917.1	766.84	1150.26	\$ 178.29
1143	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	84	T5-4'-28W-2L-EB/PSN-X-X	(LED)2L L48T5/850/24G-EB (1) QHE2X54T5HO/UNV/PSN	19	50	20	2018	2018	0.95	0.38	1917.1	766.84	1150.26	\$ 178.29
1144	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	85	T5-4'-28W-2L-EB/PSN-X-X	(LED)2L L48T5/850/24G-EB (1) QHE2X54T5HO/UNV/PSN	19	50	20	2018	2018	0.95	0.38	1917.1	766.84	1150.26	\$ 178.29
1145	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	E1 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	\$ 1.67
1146	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	86	T5-4'-28W-2L-EB/PSN-X-X	(LED)2L L48T5/850/24G-EB (1) QHE2X54T5HO/UNV/PSN	19	50	20	2018	2018	0.95	0.38	1917.1	766.84	1150.26	\$ 178.29
1147	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	87	T5-4'-28W-2L-EB/PSN-X-X	(LED)2L L48T5/850/24G-EB (1) QHE2X54T5HO/UNV/PSN	19	50	20	2018	2018	0.95	0.38	1917.1	766.84	1150.26	\$ 178.29
1148	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	88	T5-4'-28W-2L-EB/PSN-X-X	(LED)2L L48T5/850/24G-EB (1) QHE2X54T5HO/UNV/PSN	19	50	20	2018	2018	0.95	0.38	1917.1	766.84	1150.26	\$ 178.29
1149	EXTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	CLASSROOM 80 THROU	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	22	31	16	3650	3650	0.682	0.352	2489.3	1284.8	1204.5	\$ 186.70
1150	EXTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	CLASSROOM 80 THROU	T8-4'-32W-1L-EB/ISN-X-X	(LED)1L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	21	30	16	3650	3650	0.63	0.336	2299.5	1226.4	1073.1	\$ 166.33
1151	EXTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	CLASSROOM 80 THROU	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	3	59	32	3650	3650	0.177	0.096	646.05	350.4	295.65	\$ 45.83
1152	EXTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	CLASSROOM 80 THROU	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	3650	3650	0.059	0.032	215.35	116.8	98.55	\$ 15.28
1153	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	CAFETERIA	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	40	112	64	1696	1696	4.48	2.56	7598.08	4341.76	3256.32	\$ 504.73
1154	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	KITCHEN	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	21	112	64	1696	1696	2.352	1.344	3988.992	2279.424	1709.568	\$ 264.98
1155	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	KITCHEN	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	11	59	32	1696	1696	0.649	0.352	1100.704	596.992	503.712	\$ 78.08
1156	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	KITCHEN	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	6	112	64	1696	1696	0.672	0.384	1139.712	651.264	488.448	\$ 75.71
1157	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	KITCHEN	CF/S-TWST-23W-1L-SELF-X-	(LED)1L A19 14W 500K E26, 455717	2	23	14	1696	1696	0.046	0.028	78.016	47.488	30.528	\$ 4.73
1158	EXTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	KITCHEN EXTERIOR	HPS-MED-150W-1L-CWA-X-X	(LED)NEW DECO MEDIUM WALLPACK D414-LED-40-50	1	188	40	3650	3650	0.188	0.04	686.2	146	540.2	\$ 83.73
1159	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	QO1 MAIN OFICE	T8-4'-32W-3L-EB/ISN-IO-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN	10	90	48	2185	2185	0.9	0.48	1966.5	1048.8	917.7	\$ 142.24
1160	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	QO1 MAIN OFICE	T8-4'-32W-3L-EB/ISN-IO-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE3X32UNV/ISN	2	90	48	2185	2185	0.18	0.096	393.3	209.76	183.54	\$ 28.45
1161	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	QO1 MAIN OFICE	T8-4'-32W-3L-EB/ISN-IO-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	\$ 52.83
1162	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	QO1 MAIN OFICE	T5-4'-28W-2L-EB/PSN-X-X	(LED)2L L48T5/850/24G-EB (1) QHE2X54T5HO/UNV/PSN	8	50	20	2185	2185	0.4	0.16	874	349.6	524.4	\$ 81.28
1163	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	QO1 MAIN OFICE	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	4	59	32	2185	2185	0.236	0.128	515.66	279.68	235.98	\$ 36.58
1164	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	13	T5-4'-28W-2L-EB/PSN-X-X	(LED)2L L48T5/850/24G-EB (1) QHE2X54T5HO/UNV/PSN	4	50	20	2018	2018	0.2	0.08	403.6	161.44	242.16	\$ 37.53
1165	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	15	T8-4'-32W-4L-EB/ISN-IO-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	16	118	64	2018	2018	1.888	1.024	3809.984	2066.432	1743.552	\$ 270.25
1166	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	15	T8-4'-32W-3L-EB/ISN-IO-X	(LED)3L 12T8/4F/850/DIR, 97740 (1) QHE1X32UNV/ISN	2	90	48	2018	2018	0.18	0.096	363.24	193.728	169.512	\$ 26.27
1167	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	15B	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	1	59	32	2018	2018	0.059	0.032	119.062	64.576	54.486	\$ 8.45
1168	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	RESTROOMS	T8-4'-32W-2L-EB/ISN-X-X	(LED)2L 12T8/4F/850/DIR, 97740 (1) QHE2X32UNV/ISN	8	59	32	2018	2018	0.472	0.256	952.496	516.608	435.888	\$ 67.56
1169	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	32	T8-4'-32W-4L-EB/ISN-IO-X	(LED)4L 12T8/4F/850/DIR, 97740 (2) QHE2X32UNV/ISN	14	118	64	2018	2018	1.652	0.896	3333.736	1808.128	1525.608	\$ 236.47
1170	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	32	T8-4'-32W-4L-EB/ISN-X-X	(LED)4L 12T8/4F/850/DIR, 97740 (1) QHE4X32UNV/ISN	2	112	64	2018	2018	0.224	0.128	452.032	258.304	193.728	\$ 30.03
1171	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	33	T8-4'-32W-4L-EB/ISN-IO-X	(LED)4L 12T8/4F/850/DIR, 97740 (2) QHE2X32UNV/ISN	12	118	64	2018	2018	1.416	0.768	2857.488	1549.824	1307.664	\$ 202.69
1172	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS MIDDLE	34	T8-4'-32W-4L-EB/ISN-IO-X	(LED)4L 12T8/4F/850/DIR, 97740 (2) QHE2X32UNV/ISN	16	118	64	2018	2018	1.888	1.024	3809.984	2066.432	1743.552	\$ 270.25
1173	INTERIOR	NTA MONICA-MALIBU	JOHN ADAMS														