



Evaluation of the 2004-2005 San Diego City Schools Retrofit & Partnership Program

Final Report
Program 1383-04
CALMAC Study ID SDG0214.01

A Partnership of
San Diego City Schools
and
San Diego Gas & Electric Company

Prepared for
The California Public Utilities Commission

Prepared by
KEMA, Inc.

September 2008



KEMA Inc.

Table of Contents

- 1 Executive Summary 1-1
 - 1.1 Program Summary 1-1
 - 1.2 Impact Evaluation Summary 1-2
 - 1.3 Process Evaluation – Key Findings 1-2
- 2 Introduction 2-4
- 3 Program Overview 3-4
- 4 Impact Evaluation Summary 4-5
- 5 Impact Evaluation 5-5
 - 5.1 Methodology - Impact Evaluation 5-6
 - 5.2 Impact Evaluation - Timeclocks on Exterior Lighting 5-7
 - 5.2.1 *Ex Ante* Load Impacts 5-8
 - 5.2.2 Impact Evaluation Methodology - Timeclocks 5-10
 - 5.2.3 Basecase – Exterior Lighting Timeclocks 5-11
 - 5.2.4 Postcase – Exterior Lighting Timeclocks 5-12
 - 5.3 Impact Evaluation - Gymnasium Lighting 5-16
 - 5.3.1 Background 5-16
 - 5.3.2 Load Impact Estimation Methodology 5-16
 - 5.3.3 Basecase Configuration 5-18
 - 5.3.4 Postcase Configuration 5-19
 - 5.3.5 *Ex Post* kWh Savings – Gymnasium Lighting Retrofit 5-20
 - 5.3.6 *Ex Post* kW Reduction from Gym Lighting 5-21
 - 5.4 Impact Evaluation - Occupancy Sensors in Hallways, Faculty Restrooms, Locker Room Lighting 5-23
 - 5.4.1 *Ex Ante* Impact Estimates – Occupancy Sensors 5-23
 - 5.4.2 *Ex Post* Impact Estimates – Occupancy Sensors 5-24
 - 5.5 Impact Evaluation - Emergency Relays 5-26
 - 5.5.1 *Ex Ante* Load Impacts – Emergency Relays 5-27
 - 5.5.2 *Ex Post* Load Impacts – Emergency Relays 5-27
 - 5.6 Impact Evaluation - Beta Schools with Occupancy Sensors 5-28
 - 5.6.1 *Ex Ante* Load Impacts – Beta Schools 5-28
 - 5.6.2 *Ex Post* Load Impacts – Beta Schools: Occupancy Sensors 5-29
- 6 Net-To-Gross 6-30
- 7 Process Evaluation 7-31
 - 7.1.1 Process Evaluation Recommendations 7-33
- 8 Appendices 8-35
 - 8.1 Appendix A: CPUC Reporting Table 8-36
 - 8.2 Appendix B: Time Clock Field Installation Report 8-37
 - 8.3 Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data 8-51
 - 8.4 Appendix D: Occupancy Sensor Field Installation Report 8-63

Table of Contents

List of Tables:

Table 1 Savings Goals, Accomplishments and <i>Ex Post</i> Load Impact Summary	1-2
Table 2 Gross Load Impacts by Measure.....	1-2
Table 3 Savings Goals, Accomplishments and <i>Ex Post</i> Load Impact Summary	4-5
Table 4 Gross Load Impacts by Measure.....	4-5
Table 5 Exterior Lighting Timeclock Control Strategy	5-8
Table 6 Timeclock Installations.....	5-9
Table 7 Assumptions for <i>Ex Ante</i> Savings for Due to Improved Scheduling	5-9
Table 8 Hours Reduced From Uncontrolled Light Fixtures <i>Ex Ante</i> Savings Estimates.....	5-10
Table 9 <i>Ex Ante</i> kWh Savings for Timeclocks	5-10
Table 10 <i>Ex Ante</i> Peak kW Reduced.....	5-10
Table 11 Exterior Lighting Timeclocks Percent of Lights Turned On During Daytime Hours	5-11
Table 12 <i>Ex Post</i> Basecase Hours of Operation Exterior Lighting Timeclocks	5-12
Table 13 Day Types During The 2006 Calendar Year By Track.....	5-14
Table 14 Rules For On and Off Times Exterior Timeclocks Postcase	5-14
Table 15 Postcase Hours of Operation By School Type Using Timeclocks.....	5-14
Table 16 <i>Ex Post</i> Connected Lighting Load Exterior Timeclocks.....	5-15
Table 17 <i>Ex Post</i> Hours of Operation Exterior Timeclocks	5-15
Table 18 <i>Ex Post</i> Energy Savings Estimate <i>Ex Post</i> Energy Savings Estimate Exterior Lighting Timeclocks	5-15
Table 19 <i>Ex Post</i> kW Reduction Estimate Exterior Lighting Timeclocks.....	5-16
Table 20 Key M&V Parameters.....	5-18
Table 21 Fixture Counts Gymnasium Retrofits and Controls.....	5-19
Table 22 Summary of Measured Savings to Proposed Savings.....	5-20
Table 23 <i>Ex Post</i> Energy Savings Gymnasium Lighting Retrofit	5-21
Table 24 Lighting Fixture and Trend Data Analysis Gymnasium Lighting Retrofit.....	5-22
Table 25 <i>Ex Post</i> kW Reduction Gymnasium Lighting Retrofit	5-23
Table 26 Occupancy Sensor Installation and <i>Ex Ante</i> Savings Summary	5-24
Table 27 <i>Ex Post</i> Hours of Operation Occupancy Sensors in Faculty Restrooms, Locker Rooms and Hallways	5-25
Table 28 Connected Load Occupancy Sensors in Faculty Restrooms, Locker Rooms and Hallways	5-25
Table 29 <i>Ex Post</i> Energy Savings Occupancy Sensors in Faculty Restrooms, Locker Rooms and Hallways	5-26
Table 30 <i>Ex Post</i> Peak kW Reduction Estimate Occupancy Sensors in Faculty Restrooms, Locker Rooms and Hallways	5-26
Table 31 <i>Ex Ante</i> Load Impacts - Emergency Relays.....	5-27
Table 32 <i>Ex Post</i> Energy Savings Emergency Relays.....	5-28
Table 33 <i>Ex Ante</i> Savings Estimates Beta Schools.....	5-29

Table of Contents

Table 34 *Ex Post* Energy Savings Estimate Occupancy Sensors in Beta Schools.....5-29
Table 35 *Ex Post* Peak kW Reduction Estimate Occupancy Sensors in Beta Schools.....5-30

List of Figures:

Figure 1 Evaluation Approach5-7
Figure 2 Proposed Logic Model San Diego City Schools Retrofit & Partnership Program7-32
Figure 3 *Ex Post* Logic Model San Diego City Schools Retrofit & Partnership Program.....7-33

1 Executive Summary

The San Diego City Schools (“SDCS”) and San Diego Gas & Electric Company (“SDG&E”) joined in a partnership and began implementing the 2004-2005 San Diego City Schools Retrofit & Partnership Program (“program”) during 2004. The objective of the program was to identify and help SDCS achieve long-term annual energy savings and peak demand reductions through the installation of energy efficient equipment retrofits.

SDG&E contracted with KEMA to conduct this EM&V study on behalf of the California Public Utilities Commission. It was funded through the public goods charge (PGC) for energy efficiency and is available for download at www.calmac.org. The objectives of the study were to:

- Verify the installation and quantity of measures installed and calculate the verified energy savings and demand reduction attributable to the measures; and
- Assess the success in implementing the program as designed.

SDCS’ actions were prompted by the opportunity to leverage the major renovations that were being undertaken at the time with Proposition MM funds. This partnership was to allow for the leveraging of energy efficiency improvements to existing buildings as retrofit activities were taking place with Proposition MM funding, before these situations become lost opportunities for energy efficiency.

1.1 Program Summary

The San Diego City Schools Retrofit & Partnership program was intended to be a comprehensive energy efficiency support program to provide comprehensive energy audits, planning and engineering support, and installation services that would deliver energy savings through comprehensive energy efficiency retrofits of SDCS facilities.

During the elections of 1998 Proposition MM was passed authorizing the funding of a variety of school renovation projects for school districts throughout California, including the San Diego City Schools. Proposition MM provided \$1.55 billion for major repair, replacement, and new construction activities. This program sought to leverage these funds by augmenting the Prop MM efforts to maximize energy efficiency to existing buildings while Prop MM renovation and retrofit activities were being conducted.

Through the program the following measures were installed:

- Timeclocks on exterior lighting
- Retrofit of HID gymnasium lighting with advanced T8 fluorescent fixtures and controls
- Occupancy sensors on lighting systems in hallways, locker rooms and faculty restrooms
- Emergency relays on emergency lights in classrooms and hallways

The program underwent a series of changes in approach from the original plan.

Site assessments were to have been performed by an energy auditing contractor procured by SDCS. There were barriers in SDCS’ procurement protocols that would have led to delays in the program. Thus,

SDG&E’s role was modified to accommodate the situation. SDG&E provided site assessment and audit, and engineering services to identify appropriate measures and quantify the associated projected energy savings. SDG&E also provided support services including installation contractor procurement and quality assurance of installed measures.

1.2 Impact Evaluation Summary

A summary of the program goals, reported accomplishments and ex post load impacts is shown in Table 1.

Table 1
Savings Goals, Accomplishments and Ex Post Load Impact Summary

	Reported Accomplishment (Ex Ante)			Ex Post		
	Savings Goal	Load Impacts	% of Goal (Reported/Goal)	Load Impacts	Realization Rate (Ex Post/ Reported)	% of Goal (Ex Post/Goal)
Gross kWh	3,113,108	3,247,626.01	1.04	2,256,184	0.69	0.72
Gross kW	308	346.88	1.13	235.86	0.68	0.77
Gross therms	N/A	N/A	N/A	N/A	N/A	N/A
NTGR	0.96	0.96		0.96		
Net kWh	2,988,584	3,117,720.97	1.04	2,165,937	0.69	0.72
Net kW	296	333.00	1.13	226.43	0.68	0.77
Net therms	N/A	N/A	N/A	N/A	N/A	N/A

Ex post load impacts by measure are shown in Table 2.

Table 2
Gross Load Impacts by Measure

Measure	Gross Impacts					
	Reported Accomplishment (Ex Ante)		Ex Post		Realization Rate	
	kWh Savings	Peak kW Reduced	kWh Savings	Peak kW Reduced	kWh Savings	Peak kW Reduced
Exterior Lighting Timeclocks	1,373,288	89.00	924,145	65.30	0.67	0.73
Gymnasium Lighting Retrofit	829,219	196.51	854,095	123.06	1.03	0.63
Occupancy Sensors						
Hallways	421,612	6.88	88,592	5.86	0.21	0.85
P.E. Locker Rooms	180,967	10.05	85,252	17.15	0.47	1.71
Faculty Restrooms	154,485	8.60	55,544	7.34	0.36	0.85
Emergency Relays On Classroom Lighting	179,472	25.79	171,664	0.00	0.96	0.00
Beta Schools - Occupancy Sensors	108,584	10.05	76,892	17.15	0.71	1.71
Total	3,247,626	346.88	2,256,184	235.86	0.69	0.68

1.3 Process Evaluation – Key Findings

A process evaluation was conducted to evaluate the effectiveness of the energy efficiency delivery systems of the Program. Key findings and recommendations from the process evaluation are:

- **Understand organizational dynamics and constraints.** It is important to understand organization dynamics, such as, procurement policies, of the partner organizations to ensure that necessary approvals for resources can be obtained. For example, school districts and

governmental organizations, have strict guidelines regarding procurement that require public notice and review periods that can last lengthy periods of time, leading to delays in the project. Where possible these bottlenecks should be either planned for or avoided in program design. In some instances, the utility partner can take on responsibilities that include procurement and payment of outside parties, such as installation contractors. If there are to be co-payment of measures by the school district partner, then these co-payments can be planned and included in the partnership agreement, with an appropriate means to make this payment from the school district to an appropriate and approved party, perhaps the utility for disbursement to the installation contractors. Finding ways to work within the organizational constraints can be challenging, but a key to the success of a partnership program. SDG&E and SDCS made changes to the program design “on the fly” that enabled the program to be completed, however, the earlier such situations can be identified and remedies developed, the better the program can function normally.

- **Plan for detailed site assessments.** One of the initial steps that must be performed for this type of program is the site assessment to identify potential measures for installation. The manner in which this task is to be performed must be considered carefully, for it takes time and resources to successfully complete. This program actually had site audits planned, but the plan could not be carried out due to procurement issues on the part of SDCS.
- **Obtain improved data on basecase operations.** An integral and necessary part in performing site assessments is the collection of data on basecase operations of facilities. Leveraging existing data sources, such as trend data from the SDCS energy management control system can help in this effort, as can utilizing sampling approaches to gather such data. In particular basecase operating hours of equipment, such as lighting, can be monitored and used to validate *ex ante* assumptions about potential savings.

2 Introduction

The San Diego City Schools (“SDCS”) and San Diego Gas & Electric Company (“SDG&E”) joined in a partnership and began implementing the 2004-2005 San Diego City Schools Retrofit & Partnership Program (“program”) during 2004. The objective of the program was to identify and help the San Diego City Schools achieve long-term annual energy savings and peak demand reductions through the installation of energy efficient equipment retrofits.

SDG&E contracted with KEMA to conduct this EM&V study on behalf of the California Public Utilities Commission. The objectives of the study were:

- Verify the installation and quantity of measures installed and calculate the verified energy savings and demand reduction attributable to the measures; and
- Assess the success in implementing the program as designed.

The SDCS actions were prompted by the opportunity to leverage the major renovations that were being undertaken at the time with Proposition MM funds. This partnership was to allow for the leveraging of energy efficiency improvements to existing buildings as retrofit activities were taking place with Proposition MM funding, before these situations become lost opportunities for energy efficiency.

3 Program Overview

The San Diego City Schools Retrofit & Partnership program was intended to be a comprehensive energy efficiency support program to provide comprehensive energy audits, planning and engineering support, and installation services that will deliver energy savings through comprehensive energy efficiency retrofits of SDCS facilities.

During the elections of 1998 Proposition MM was passed authorizing the funding of a variety of school renovation projects for school districts throughout California, including the San Diego City Schools. Proposition MM provided \$1.55 billion for major repair, replacement, and new construction activities. This program sought to leverage these funds by augmenting the Prop MM efforts to maximize energy efficiency to existing buildings while Prop MM renovation and retrofit activities were being conducted.

Through the program the following measures were installed:

- Timeclocks on exterior lighting
- Retrofit of HID gymnasium lighting with advanced T8 fluorescent fixtures and controls
- Occupancy sensors on lighting systems in hallways, locker rooms and faculty restrooms
- Emergency relays on emergency lights in classrooms and hallways

The program underwent a series of changes in approach from the original plan.

Site assessments were to have been performed by an energy auditing contractor procured by SDCS. There were barriers in SDCS’ procurement protocols that would have led to delays in the program. Thus, SDG&E’s role was modified to accommodate the situation. SDG&E provided site assessment and audit,

and engineering services to identify appropriate measures and quantify the associated projected energy savings. SDG&E also provided support services including installation contractor procurement and quality assurance of installed measures.

4 Impact Evaluation Summary

A summary of the program goals, reported accomplishments and ex post load impacts is shown in Table 3.

Table 3
Savings Goals, Accomplishments and *Ex Post* Load Impact Summary

	Reported Accomplishment (<i>Ex Ante</i>)			<i>Ex Post</i>		
	Savings Goal	Load Impacts	% of Goal (Reported/Goal)	Load Impacts	Realization Rate (<i>Ex Post</i> / Reported)	% of Goal (<i>Ex Post</i> /Goal)
Gross kWh	3,113,108	3,247,626.01	1.04	2,256,184	0.69	0.72
Gross kW	308	346.88	1.13	235.86	0.68	0.77
Gross therms	N/A	N/A	N/A	N/A	N/A	N/A
NTGR	0.96	0.96		0.96		
Net kWh	2,988,584	3,117,720.97	1.04	2,165,937	0.69	0.72
Net kW	296	333.00	1.13	226.43	0.68	0.77
Net therms	N/A	N/A	N/A	N/A	N/A	N/A

Ex post load impacts by measure are shown in Table 4.

Table 4
Gross Load Impacts by Measure

Measure	Gross Impacts					
	Reported Accomplishment (<i>Ex Ante</i>)		<i>Ex Post</i>		Realization Rate	
	kWh Savings	Peak kW Reduced	kWh Savings	Peak kW Reduced	kWh Savings	Peak kW Reduced
Exterior Lighting Timeclocks	1,373,288	89.00	924,145	65.30	0.67	0.73
Gymnasium Lighting Retrofit	829,219	196.51	854,095	123.06	1.03	0.63
Occupancy Sensors						
Hallways	421,612	6.88	88,592	5.86	0.21	0.85
P.E. Locker Rooms	180,967	10.05	85,252	17.15	0.47	1.71
Faculty Restrooms	154,485	8.60	55,544	7.34	0.36	0.85
Emergency Relays On Classroom Lighting	179,472	25.79	171,664	0.00	0.96	0.00
Beta Schools - Occupancy Sensors	108,584	10.05	76,892	17.15	0.71	1.71
Total	3,247,626	346.88	2,256,184	235.86	0.69	0.68

5 Impact Evaluation

This study assessed the performance of the 2004-2005 San Diego City Schools Retrofit & Partnership Program in terms of accomplishment of program goals and a review of the program processes. Key evaluation objectives included:

- Verification of the installation and quantity of measures installed and calculation of the verified energy savings and demand reduction attributable to the measures; and
- Assessment of the success in implementing the program as designed.

The impact evaluation used an engineering based approach. Detailed lists of installed measures were provided by SDG&E. These lists were the basis for on-site verification of installations and measure counts, as well as other data collection activities including data logging. The following subsection provides an overview of the approach used in the impact evaluation.

5.1 Methodology - Impact Evaluation

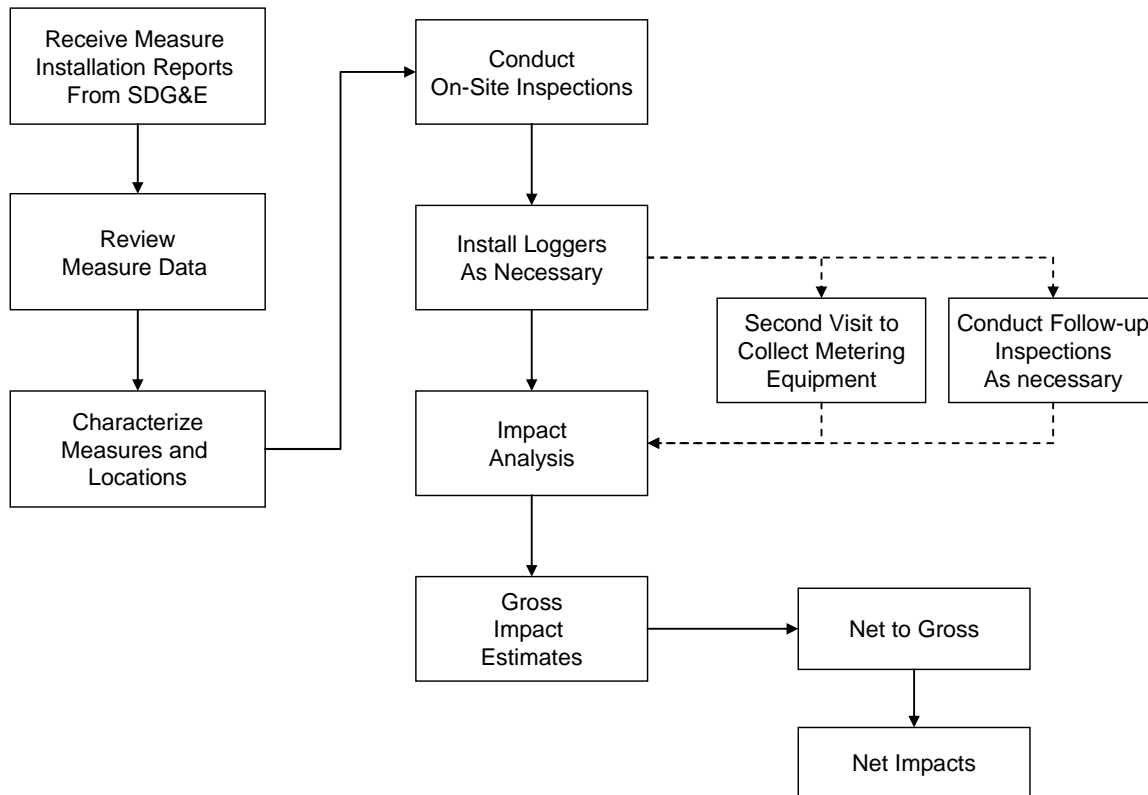
Figure 1 outlines our evaluation approach. The approach was based on obtaining quality measure installation data and augmenting those data through verification and data collection. The program required the installation contractors to provide fairly detailed reports showing specific equipment quantities, locations and sizing. The data, provided to KEMA as Field Installation Reports, were the bases for KEMA's field activities, including:

- On-site verification inspections
- Field monitoring and data logging

Measure File Review. A review of the Field Installation Reports for each measure was conducted. This review allowed for the characterization of the measures to be implemented at the various sites, as well as the sites themselves.

Measure-Specific Load Impact Analysis. For each measure an evaluation was performed. Data collection requirements were assessed and data collection activities were deployed. The installation of each type of measure was verified through on-site inspections. Operating hours were evaluated using a variety of data including trend data from EMS, monitored data from data loggers installed in the field, DEER data, and interviews of site personnel. The load impact methodologies employed were engineering based. The specific approach used for each measure is described in the section where the analysis is discussed. The load impact estimation methodologies used were consistent with IPMVP Option A (stipulated and measured factors).

**Figure 1
Evaluation Approach**



5.2 Impact Evaluation - Timeclocks on Exterior Lighting

Exterior lighting at schools was typically controlled using one of several methods:

- Mechanical timeclocks – one day period
- Manual breakers or switches operating by on-site personnel
- The SDCS energy management system

Energy audits performed by utility and SDCS staff observed that a fair number of exterior lights were turned on during the day. Further investigation revealed that many of the mechanical timeclocks were not functioning and if they were, the schedules were often incorrectly set. For the schools with manual breakers or switches the lights were usually turned on and off on a set schedule by school staff. These two factors, non-functioning clocks and reliance on staff to turn controls on-off, resulted in a number of lights remaining on when they were not needed.

The original plan was to replace all existing dial time clocks with digital time clocks. This approach was expanded to install digital time clocks on schools that were not connected to the District Energy Management System, which was already in place to control some schools' HVAC and lighting systems.

The time clocks installed could be programmed with a 365-day calendar and had the capability to account for changes in daily sunrise-sunset times, as well as school holidays and breaks. Latitude coordinates were programmed into each logger to inform the timer of the actual sunrise-sunset. The actual time of sunrise or sunset is then accounted for by the logger, and the on or off time is adjusted accordingly on a daily basis.

The strategy used for lighting operation is shown in Table 5.

**Table 5
Exterior Lighting Timeclock Control Strategy**

Day Type	Time	State
Weekday	5:15 am to Sunrise	On
	Sunset to 11 pm	On
	All other times	Off
Weekend	All, except special events	Off
Holiday	All, except for special events	Off

5.2.1 *Ex Ante* Load Impacts

Energy savings from timeclocks on exterior lighting was expected to come from two sources:

- Reduced hours of operation due to more efficient scheduling
 - Assumed an operating schedule of 7 hour per day, 365 days per year using existing, mechanical timeclocks
 - Avoided operation on weekends and holidays
 - Assumed 15 minutes per day will be saved by not resetting existing timeclocks to compensate for daylight savings time changes
- Control of fixtures that were not previously controlled
 - Assumes 15 percent of all fixtures are operating 24 hours per day, 7 days per week
 - Assumes a normal operating schedule of 1,050 operating hours per year

Table 6 shows a summary of the timeclocks installed and the associated connected lighting kW. As shown in Table 6, timeclocks were installed at 57 schools with a connected load of 593 kW.

Table 7 shows assumptions that were used to calculate the *ex ante* savings estimates. These savings were based on the number of operating hours reduced due to the installation of the timeclocks. Table 8 shows the number of hours reduced by installing timeclocks. Table 9 shows the savings calculation after adjusting for the final number of timeclocks installed.

**Table 6
Timeclock Installations**

School	Track	Track (Schedule)	KW	School	Track (Schedule)	KW
Alcott ES	Traditional	1	0.264	Madison HS	Traditional	1.86
Bell MS	Traditional	16	15.0144	Maintenance Center	Year Round	3.047
Boone MS	Year Round	2	3.096	Mann MS	Year Round	0.384
Brooklyn ES	Year Round	6	13.4353	Mann MS	Year Round	6.096
Challenger MS	Traditional	6	12.4972	Marston MS	Traditional	0.708
Clairemont HS	Traditional	5	4.428	Memorial MS	Year Round	17.424
Clark MS	Year Round	5	21.8553	Mira Mesa HS	Traditional	35.5765
Clay ES	Traditional	5	4.164	Mission Bay HS	Traditional	10.4728
Correia MS	Traditional	4	1.524	Morse HS	Traditional	2.8848
Crawford HS	Traditional	17	17.5272	Muirlands MS	Traditional	10.56
Dana MS	Traditional	3	31.7864	Nye ES	Traditional	5.0424
DePortla MS	Traditional	12	7.716	Oak Park ES	Traditional	2.364
Euclid ES	Year Round	9	7.896	Ocean Beach ES	Traditional	3.012
Farb MS	Year Round	8	6.8178	Pacific Beach MS	Traditional	1.824
Florence ES	Traditional	7	2.616	Patrick Henry HS	Traditional	12.768
Gompers MS	Traditional	3	3.248	Pershing MS	Traditional	0
Hamilton MS	Year Round	5	3.9732	Point Loma HS	Traditional	11.4825
Hancock ES	Year Round	5	9.6634	San Diego HS	Traditional	27.098
Hoover HS	Traditional	27	22.5609	SCPA AT	Traditional	19.8056
Horton Elementary	Year Round	8	4.324	Scripps Ranch HS	Traditional	42.7688
Jackson ES	Year Round	6	2.352	Serra HS	Traditional	33.1182
Kearny HS	Traditional	4	18.7496	Standley MS	Traditional	9.74936
Keiller MS	Traditional	5	4.956	University City HS	Traditional	28.998
Kroc MS	Traditional	7	4.296	Valencia Park ES	Year Round	1.932
Kumeyaay ES	Traditional	5	13.1688	Vista Grande ES	Traditional	5.76
La Jolla ES	Traditional	7	3.024	Walker ES	Year Round	13.1258
La Jolla HS	Traditional	16	21.0972	Wangenheim MS	Traditional	13.3372
Language Acad AT	Year Round	5	3.588	Zamorano	Year Round	6.1896
Lewis MS	Traditional	2	0.396	Grand Total		593.42326

**Table 7
Assumptions for Ex Ante Savings for Due to Improved Scheduling**

Postcase:	
15 min per day will be saved from not resetting existing time clocks to compensate for daylight savings (365 days)	91.25
14 hours per week will be saved because lights will be turned off on weekends (52 weeks)	728.00
7 hours per day for 50 holidays lights will be off	350.00
Total Hours Saved	1,169.25

Table 8
Hours Reduced From Uncontrolled Light Fixtures
Ex Ante Savings Estimates

Basecase hours (Uncontrolled Lighting)	8,760
Controlled hours	1,050
Hours saved	7,710

Table 9
Ex Ante kWh Savings for Timeclocks

	No. Timeclocks	kW	Hours Saved	kWh
Ex Ante Savings Time Clock Reset		593	1,169.25	693,860
Savings From Uncontrolled Lighting (Operating 8,760 HOURS)		89	7,710	686,294
				1,380,154
# Timeclocks Proposed	402			
Average Savings per Timeclock				3,433.22
# Timeclocks Installed	400			
Installed Savings				1,373,288

No peak kW reductions were assumed for normally operating fixtures. Only the uncontrolled fixtures contributed to peak kW reduction. The *ex ante* peak kW reduction is shown in Table 10.

Table 10
Ex Ante Peak kW Reduced

	Connected kW	kW During Peak Period	Peak kW Reduced
Normally Operating Lighting	593	0	0
Uncontrolled Lighting	89	89	89
Peak kW Reduced			89

5.2.2 Impact Evaluation Methodology - Timeclocks

The first step was to assess the basecase. The parameters of the basecase included:

- **Connected lighting wattage.** Verified through on-site inspections and fixture counts.
- **Percentage of lights that are turned on during the daytime.** Estimated through on-site inspections.
- **Operating hours.** Sunrise-sunset data obtained from NOAA were used to develop operating hours when lighting was controlled by the new timeclocks using sunrise-sunset adjustments. Schedules for each school were established based on the track (known as “Traditional” or “Year Round” schools).

Postcase conditions were verified through inspection.

Energy savings were calculated using (Equation 1)

(Equation 1)

$$\text{kWh Savings} = \text{kWh}_{\text{Pre}} - \sum \text{kWh}_{\text{Post},i}$$

where :

$$\text{kWh}_{\text{Pre}} = \text{kW}_{\text{Pre}} \times \text{Op Hours}_{\text{Pre}}$$

$$\text{kWh}_{\text{Post}} = \text{kW}_{\text{Post},i} \times \text{Op Hours}_{\text{Post},i}$$

i = school track type (traditional or year round).

The kW figures were based on *Time Clock Field Installation Report* attached in Appendix A, and were verified through field inspection. Schedules for school tracks were obtained from SDCS. Operating schedules for the operation of lighting were obtained from SDCS and were confirmed through field inspection.

5.2.3 Basecase – Exterior Lighting Timeclocks

The connected lighting kW for the basecase was taken from the Time Clock Field Installation Report.

5.2.3.1 Percentage Of Exterior Lights Turned On

On-site inspections were conducted at the schools selected and the percentage of lights at each school was estimated. The average across the schools inspected was used to estimate energy usage. The percent of lights turned on during the daytime is shown in Table 11.

Table 11
Exterior Lighting Timeclocks
Percent of Lights Turned On During Daytime Hours

School	% - On During Daytime Hours
Correia MS	30%
Farb MS	15%
Hoover HS	5%
La Jolla HS	15%
Pacific Beach MS	10%
Point Loma HS	0%
Roosevelt MS	0%
San Diego HS	20%
Standley MS	0%
Wangenheim MS	15%
Average %-on	11.0%

The on-site inspections verified that 11 percent of the exterior lights were turned on during the daytime. Repeat visits were made at the schools to confirm that the lights continued to be turned on.

5.2.3.1.1 Estimated Basecase Hours of Operation

Program staff assumed basecase hours of operation to be 7-hours a day, 365-days a year, or 2,555 hours per year. This figure was based primarily on the assumption that the lights were controlled by daily timeclocks. However, interviews of site personnel indicated that some lights are turned on and off manually through switches by site staff. Approximately 60 percent of the lights were controlled by manually operated switches. The remaining 40 percent were controlled by older mechanical timeclocks that operated on a 24-hour schedule 365 days per year. The interviews indicated that the average daily on time of 7-hours per day was a reasonable approximation.

Table 12 shows annual hours of operation for manual switch and timeclock controlled lighting. Weighted average hours are also shown with weights based on the share of schools using either control. In addition, since it seems unlikely that the lights would be turned off consistently by staff, thus, the annualized hours were adjusted by 10 and 20 percent to determine the effect of lights that were not turned off by staff on occasion. The value for lights left on 10% was used for the postcase hours of operation.

Table 12
Ex Post Basecase Hours of Operation
Exterior Lighting Timeclocks

	% of Schools	# Days	Hours per Day	Annual Hours
Manual Switch	0.6	184	7	1,288
Timeclock	0.4	365	7	2,555
Weighted Avg Hours (Lights left on 0%)				1,795
Weighted Avg Hours (Lights left on 10%)				1,872
Weighted Avg Hours (Lights left on 20%)				1,949

5.2.4 Postcase – Exterior Lighting Timeclocks

The installed timeclocks controlled 593.4 kW of exterior lighting at 57 schools. Table 6 provides a summary of the timeclocks installed.

5.2.4.1 Connected Fixture Wattage

The connected fixture wattage was confirmed through on-site inspections. The basis for the inspections was the *Time Clock Field Installation Report* provided by program staff. This report provided detailed fixture counts for each of the schools where time clocks were installed. Fixture counts and fixture wattages were verified through on-site inspections.

The total connected fixture wattage verified was 593.4 kW.

5.2.4.2 *Ex Post* Hours of Operation

The *ex post* hours of operation were developed through a review of existing operating information, on-site verification of lighting operations, interviews of site personnel, and an analysis of sunrise-sunset data.

5.2.4.2.1 Verification of Postcase Operation

The operating schedule of the timeclocks was verified through observation. Repeated site visits were conducted at a sample of sites to verify that the lighting was turning on and shutting off according to the timeclock strategy shown in Table 5. This was done to ensure the “suntracking” function that adjusts the on-off behavior to account for sunrise-sunset was working properly. Through the verification inspections it was found that:

- For evening operation with school in session
 - Lights came on at 5 pm or dusk in the afternoon, whichever was later.
 - Lights turned off by 11 pm.
- For morning operation with school in session
 - Lights came on at 5:15 am
 - Lights turned off at sunrise or 7:00 am, whichever was earlier
- For weekends or holidays
 - Lights were turned off
 - Exceptions were for occasional special events

5.2.4.2.2 Postcase Hours of Operation

Based on these findings sunrise-sunset data from NOAA was used to estimate the annual operating hours for two types of schools:

- **Traditional schools**, those whose terms typically start in the fall and end in June with a summer break.
- **Year Round schools**, those that have sessions lasting several months then have a break of 3 to 4 weeks, and then repeating until the school year is completed. These term for these schools typically start in September and end in July.

The reason for looking at these schools separately is due to the “suntracking” adjustment system that affects the extended hours in July. The year 2006 was used as the basis for the analysis. This year is a composite of four school schedules: the traditional school schedules for 2005-2006 and 2006-2007; and the year round schedules for 2005-2006 and 2006-2007. Table 13 shows the number of days by type for the two tracks.

Table 13
Day Types During The 2006 Calendar Year By Track

Track	Total Days	School In Session	Weekends	Holidays Vacations	Breaks (Summer and Between Sessions)
Traditional	365	184	105	28	48
Year Round	365	184	105	22	54

Each day was categorized as a school day, weekend, holiday, or break day for traditional and year round. To determine the postcase on and off times the rules in Table 14 based on the timeclock strategies from Table 5 that were programmed into the controllers. The number of hours on per day was calculated by subtracting the on time from the off time.

Table 14
Rules For On and Off Times
Exterior Timeclocks
Postcase

Day Type	Period	Rule
School Days	Morning On	5:15 am
	Morning Off	Sunrise or 7:00 am, whichever is earlier
	Evening On	Sunset or 5:00 pm, whichever is later
	Evening Off	11:00 pm
Weekends and Holidays	Off	All day

The total annual hours of operation for traditional and year round schools are shown in Table 15. The calculations used are shown in the attached workbook in Appendix B.

Table 15
Postcase Hours of Operation By School Type Using Timeclocks

	Annual Hours
Traditional	1,064
Year Round	1,104

5.2.4.3 Exterior Lighting Timeclocks – *Ex Post* Load Impact Estimates

The *ex post* load impacts were estimated by determining the connected load as shown in Table 16.

Table 16
Ex Post Connected Lighting Load
Exterior Timeclocks

Total Connected Lighting Load	593.4
Percent Operating Continuously	11%
Lighting Load Operating Continuously	65.3
Lighting Load Normally Operating	528.1
Lighting Load, Traditional Schools	468.2
Lighting Load, Year Round Schools	125.2

The hours of operation estimated previously are shown in Table 17.

Table 17
Ex Post Hours of Operation
Exterior Timeclocks

Hours of Operation	
Basecase, Normal Operations	1,872
Postcase, Traditional Schools	1,064
Postcase, Year Round	1,104

Basecase energy use for continuously operating and normally operating fixtures was calculated by multiplying the connected kW for each type by the associated hours of operation. Postcase energy use was calculated for traditional and year round schools. The energy savings is the difference between basecase and postcase usage.

Table 18
Ex Post Energy Savings Estimate Ex Post Energy Savings Estimate
Exterior Lighting Timeclocks

Basecase Energy Use	kW	Hours of Op	kWh
Fixtures Operating Continuously	65.3	8,760	571,823
Fixtures Operating Normally	528.1	1,872	988,733
Total - Basecase kWh			1,560,556
Postcase Energy Use			
Traditional Schools	468.2	1,064	498,190
Year Round Schools	125.2	1,104	138,220
Total - Postcase kWh			636,410
Energy Savings			924,145

Under the operating strategy in Table 5 peak kW reduction would be obtained only from the uncontrolled lighting fixtures, with no peak kW reduction from the normally operating lighting, since normally operating lighting would be turned off during the system peak period. The peak kW reduction estimate is shown in Table 19.

Table 19
Ex Post kW Reduction Estimate
Exterior Lighting Timeclocks

	Connected kW	kW During Peak Period	Peak kW Reduced
kW from Normally Operating Lighting	528.1	0.0	0.0
kW from Uncontrolled Lighting	65.3	65.3	65.3
Total	593.4	65.3	65.3

5.3 Impact Evaluation - Gymnasium Lighting

Twenty schools participated in this lighting retrofit program implemented by Amtech Lighting Services.

HID lighting fixtures were replaced by energy efficient T-8 fixtures and controlled by an energy management system (“EMS”) based on time schedules and occupancy sensors to provide varying light levels as needed by the activity. In addition, four of these high school gymnasium retrofits (Point Loma High boys’ gym, La Jolla High boys’ gym, La Jolla High girls’ gym, and Scripps Ranch High) had **daylight harvesting** capabilities. In these four gyms lighting controls were combined with light sensors, and skylights and windows to enable the light output of the fixtures to be increased or decreased to provide sufficient light levels in conjunction with the daylight through skylights and windows.

5.3.1 Background

The original plan was to replace the existing 400W Metal Halide fixtures with T5 fluorescent fixtures of equivalent light lumen output. However, plans were changed and several pilot test installations were implemented at three high school gyms (Kearny High, San Diego High, and Scripps Ranch High) with six-lamp T8 fluorescent fixtures instead. Prior to the installation at these schools, a photometric analysis was conducted by Write Engineering at the Kearny High gym. It was determined that the six-lamp fixtures would not provide adequate high bay light levels; consequently, all school gymnasium retrofits were performed with standard ballast eight-lamp T8 fluorescent fixtures. Each installation was carefully planned and implemented.

The lighting systems were designed to have three levels of lighting, with each level having the capability of being staged to manage lighting use. Low power was available 24/7 and was controlled by occupancy sensors. Three lamps were available during pre-specified hours usually school days between 7 am and 5 pm and were controlled by occupancy sensors. These lamps would turn on in conjunction with the low power lamps to provide a total of 5-lamps of lighting. This was the medium power light level. A twist timer allowed after-hours use as needed. The last three lamps in each fixture were controlled by the SDCS EMS and were available on when formally requested through the SDCS Facilities Office. These three lamps operate in conjunction with the other 5-lamps, providing a total of 8-lamps for the high power setting.

5.3.2 Load Impact Estimation Methodology

The approach employed to assess the load impacts for the high school gymnasiums was:

- Verified fixture installations, including fixture type, fixture wattages and fixture counts.
- Compared basecase and postcase operating hours and operating wattages.

Installation documentation was obtained from the school district for each participating gymnasium. On-site inspections on a sample of gymnasiums were conducted to verify the fixture data in the documentation. The documentation provided accurate fixture counts and fixture types.

For the basecase, operating data was gathered from thirteen high schools from the school district's energy management control system. One of the schools (La Jolla High) had two gyms, for a total of fourteen gymnasiums. The data was measured time-of-day electric current in thirty minute intervals for a minimum of two weeks. The information was compiled into a series of spreadsheets and plotted for each site.

For the postcase, trend data for four high school gymnasiums was obtained. These data measured real-time current in thirty minute intervals for a minimum of four months; the information was also compiled and plotted for each site.

These plots were assessed to determine power settings (Low, Medium, High) for each circuit monitored and assessed overall load. The data were then organized into full 24-hour days and the hours of operation at each power setting were determined for each full day. Average operating hours for each day of the week at each power setting were calculated. These totals were then annualized for each gymnasium based on the school's annual schedule.

These measured annual hours of operation were compared to basecase conditions and also to *ex ante* postcase conditions reported by Amtech Lighting Services for project analysis.

Site inspections were employed to verify key Measurement and Verification parameters.

The basic equation used to estimate the energy savings for the lighting retrofits is shown in Equation 2.

Equation 2

$$\text{kWh Savings} = \text{kWh}_{\text{Pre}} - \text{kWh}_{\text{Post}}$$

where:

$$\text{kWh}_{\text{Pre}} = (\# \text{ Fixtures}_{\text{Pre}}) \times (\text{Fixture Wattage}_{\text{Pre}}/1000) \times (\text{Hours of Operation}_{\text{Pre}}); \text{ and}$$

$$\text{kWh}_{\text{Post}} = (\# \text{ Fixtures}_{\text{Post}}) \times (\text{Fixture Wattage}_{\text{Post}}/1000) \times (\text{Hours of Operation}_{\text{Post}}).$$

The key parameters of Equation 2 are shown in Table 20.

Table 20
Key M&V Parameters

Parameter	M&V Activity
Number of Fixtures _{Pre} and Number of Fixtures _{Post}	Fixture counts were verified through on-site inspection. Pre-inspections performed by SDG&E program staff.
Fixture Wattage _{Pre} and Fixture Wattage _{Post}	Stipulated wattage values on verification of fixture types. Pre-inspections performed by SDG&E program staff.
Hours of Operation _{Pre} and Hours of Operation _{Post}	Lighting fixtures in the basecase were typically controlled by master manual switches. Lighting fixtures in the retrofit case were controlled by an EMS via occupancy sensors at three distinct wattage tiers.

In addition, the measured savings, from trend data, were compared to proposed savings through the Realization Rate of Measured Savings to Proposed Savings as shown in Equation 3.

Equation 3

$$\text{Realization Rate} = \frac{\text{Measured Savings}}{\text{Proposed Savings}}$$

where:

Measured Savings = kWh Savings_{Measured}; and

Proposed Savings = kWh Savings_{Proposed}.

The realization rate was used to extrapolate the verified savings.

5.3.3 Basecase Configuration

For each school gym, the existing lighting was verified to be 400W Metal Halide lamps with total fixture wattages of 458 watts. The fixture counts were also verified and mapped out by location for each school gymnasium.

These fixtures were collectively controlled as needed by manual switches. A series of switches in each gym controlled all MH lamps in the gym. The existing hours of operation for each gym were logged from the period beginning late-April 2005 through mid-May 2005.

Table 21 shows the verified fixture counts at the gyms. In some cases the lighting studies performed at the gym indicated a need to add fixtures to avoid dark spots on the floor.

Table 21
Fixture Counts
Gymnasium Retrofits and Controls

Gyms	No. fixtures	
	Pre-Retrofit	Post-Retrofit
Clairemont High	30	30
Crawford High	30	30
Hoover High boys	32	32
La Jolla High boys	42	42
La Jolla High girls	30	30
Madison High	30	30
Mira Mesa High	36	40
Morse High	32	32
Patrick Henry High	36	36
Point Loma High boys	30	36
San Diego High	30	40
Scripps Ranch High	35	35
Serra High	40	44
University City High	40	40
Total	473	497

5.3.4 Postcase Configuration

For each school gym, the replacement lighting was verified to be 8-lamp 32-watt 4-ft T8 lamps with 3-electronic ballasts. In addition to the light fixture retrofits, the light fixtures were connected to an EMS to control the gymnasium fixtures. Each fixture was wired in the following configuration to provide High-Medium-Low power levels:

- **Low Power.** Two lamps in each fixture were powered by one standard ballast. These lamps were available 24 hours a day, 7 days a week and were controlled by occupancy sensors. These were used for safety and security of students and staff. The total wattage for this fixture arrangement, denoted as Low power, was 59 watts.
- **Medium Power.** Three lamps in each fixture were powered by one standard ballast and activated by occupancy sensors, but they are normally available during regular school hours for activities, such as PE classes and athletic team practices, typically between the hours of 7 am and 5 pm. The total wattage for this fixture arrangement, denoted as Medium power, was 144 watts. A twist timer allows these lights to be used during after-hours for up to 90 minutes at a time.
- **High Power.** Three lamps in each fixture were controlled by one ballast and are available only on request. These lamps would be activated when a request was made by the school administration to the EMS control center (at the District’s Energy and Facilities Office) either

during or after regular school hours. These lamps were available only during the time period requested. The EMS would be programmed to allow the fixtures to operate in the High power mode. These were used for athletic team competitions and school dances, and operated in addition to both the continuous-operation ballast and sensor-controlled ballast. The total wattage for this fixture arrangement, denoted as High power, was 229 watts.

The trend data for post-retrofit hours of operation was for the period beginning mid-September 2005 or mid-October 2005 through early-March 2006. More data was requested but not provided.

5.3.5 Ex Post kWh Savings – Gymnasium Lighting Retrofit

Of the fourteen gymnasiums logged pre-retrofit, four gymnasiums were also logged postcase. San Diego High was among the first three pilot test retrofits performed. Table 22 presents a summary of the results of the four gyms for which there is both basecase and postcase data.

Table 22
Summary of Measured Savings to Proposed Savings

	Proposed		Measured Usage		kWh Savings		
	kWh _{Pre}	kWh _{Post}	kWh _{Pre}	kWh _{Post}	Proposed	Measured	Realization Rate
Madison High	48,688.1	5,644.0	34,822.7	14,949.5	43,044	19,873	0.46
Patrick Henry High	48,688.1	5,644.0	59,101.2	15,403.4	43,044	43,698	1.02
San Diego High	36,806.4	8,355.5	68,969.3	25,581.3	28,451	43,388	1.53
University City High	48,688.1	5,644.0	79,105.8	23,142.5	43,044	55,963	1.30
Total	182,870.6	25,287.5	241,999.0	79,076.6	157,583	162,922	1.03

For Madison High, the main reason for the low realization rate was the discrepancy in hours of operation. The proposed reduction in hours of operation was estimated to be approximately 2,000 hours, while the trend data showed that hours *increased* by approximately 200 hours. The energy savings for this site was primarily due to the efficient lighting replacements.

For San Diego High, the main reason for the high realization rate was the low proposed basecase energy consumption. In this case, the discrepancy was primarily due to the proposed number of MH fixtures that are turned off when the gym lighting switches manually from High power to Low power. An estimated 26% of fixtures shut off at Low power for this site, compared to an estimated 10% of fixtures shut off at Low power for other sites. The basecase energy consumed when gym lighting was at Low power was lower than expected, resulting in low overall proposed basecase energy consumption for this site.

For University City High, the main reason for the high realization rate was the discrepancy in number of fixtures. It was proposed that there were thirty-three fixtures pre- and post-retrofit; upon inspection, the gym contained forty fixtures pre- and post-retrofit. This magnified the impact of the energy savings implementations for this site, resulting in high measured savings.

The realization rate of 1.03 for the gyms indicates the projected savings estimate on average approximated the verified savings from the trend data. This may have been due, in part, to the fact that these retrofits were well planned and implemented. Where many lighting retrofits are fairly simple

replacement of existing fixtures done a mass-market basis, these gyms were subjected to greater assessment and planning to ensure satisfactory lighting results, but also somewhat predictable savings.

The estimate of total savings for this measure was calculated by multiplying the realization rate by the *ex ante* estimates as shown in Table 23.

Table 23
***Ex Post* Energy Savings**
Gymnasium Lighting Retrofit

	kWh
Kearny High	114,875
Scripps Ranch High	21,715
San Diego High	27,917
Standley	20,205
University City High	21,810
Remaining Gym -No Harvesting (13 Gyms)	559,458
Remaining Gyms-Harvesting (3 Gyms)	63,240
Total Ex Ante Savings	829,219
Realization Rate	1.03
Ex Post Load Impacts	854,095

5.3.6 *Ex Post* kW Reduction from Gym Lighting

The kW demand reduction from gym lighting was estimated using trend data for pre and post retrofit periods. The

- Estimate ***Pre-kW Adjustment Factor***. This factor was based on the average pre-retrofit peak kW from trend data divided by the pre-retrofit connected kW. This factor accounted for the high-low power lighting used during the pre-retrofit period.
- Estimate ***%-kW reduced*** from trend data.
- Calculate ***Pre-kW*** by multiplying ***Pre-kW Adjustment Factor*** by pre-retrofit connected kW.
- Calculate ***Ex Post kW Reduced*** by multiplying ***Pre-kW*** by ***%-kW Reduced***.

Trend data on the pre-retrofit operation of 14 gyms and the post-retrofit operation of four gyms. These data were amps recorded at 30 minute intervals by the SDCS energy management system. Pre-retrofit and post-retrofit amps were converted to kW. Average kW for the peak periods were calculated for the pre- and post-retrofit configurations.

Equation 4 shows the calculation of the ***Pre-kW Adjustment Factor***. This factor was used to calculate basecase kW. The factor accounts for the pre-retrofit operation of the lighting system at less than full power. Because the factor is based on trend data that reflects actual operation it provides a good estimate of basecase kW.

Equation 4

$$\text{Pre - kW Adjustment Factor}_{i,H} = \frac{\sum_i \frac{\text{Average Pre - retrofit Peak kW}_{i,H}}{\text{Pre - Retrofit Connected kW}_i}}{i}$$

where :

$i = \text{gym } i,$

$H = \text{Harvesting or Non - harvesting}$

Average Pre - retrofit Peak kW_{i,H} = Average kW for peak period from trend data of gym i, and harvesting or non - harvesting,

Pre - Retrofit Connected kW_i = Pre - retrofit connected kW for lighting of gym i.

Equation 5 shows the formula for calculating the % - kW Reduced used to estimate kW Reduced.

Equation 5

$$\% - \text{kW Reduced} = \frac{\text{Post Peak kW From Trend Data}}{\text{Pre Peak kW From Trend Data}}$$

Table 24 shows the trend data and the results of Equation 4 and Equation 5.

Table 24
Lighting Fixture and Trend Data Analysis
Gymnasium Lighting Retrofit

School	Connected Pre kW			Connected Post kW			Peak kW From Trend Data		Pre-kW Adjustment Factor		% - kW Reduced	
	No. Fixtures	Watts per Fixture	Total Pre Connected kW	No. Fixtures	Watts per Fixture	Total Post Connected kW	Pre Peak kW From Trend	Post Peak kW From Trend	Non-Harvesting	Harvesting	Non-Harvesting	Harvesting
Clairemont HS	30	458	13.74	30	229	6.87	7.95		0.58			
Crawford HS	30	458	13.74	30	229	6.87	13.42		0.98			
Hoover HS	32	458	14.66	32	229	7.33	8.88		0.61			
La Jolla HS Boys (Harvesting)	42	458	19.24	42	229	9.62	10.60			0.55		
La Jolla HS Girls (Harvesting)	30	458	13.74	30	229	6.87	4.18			0.30		
Madison HS	30	458	13.74	30	229	6.87	10.83	4.28	0.79		60.5%	
Mira Mesa HS	40	458	18.32	44	229	10.08	7.37		0.40			
Morse HS	32	458	14.66	32	229	7.33	8.73		0.60			
Patrick Henry HS	36	458	16.49	36	229	8.24	12.91		0.78			
Pt Loma HS Main (Harvesting)	30	458	13.74	36	229	8.24	6.42	2.72		0.47		57.5%
San Diego HS	30	458	13.74	40	229	9.16	11.39	4.39	0.83		61.5%	
Scripps Ranch HS (Harvesting)	35	458	16.03	35	229	8.02	12.90			0.80		
Serra HS	40	458	18.32	44	229	10.08	5.74		0.31			
University City HS	40	458	18.32	40	229	9.16	18.01	5.61	0.98		68.9%	
Standley MS	16	458	7.33	16	174	2.78						
Pt Loma HS Small	18	458	8.24	18	229	4.12						
Mission Bay	36	458	16.49	36	229	8.24						
Hoover Girls	28	458	12.82	28	229	6.41						
Kearny	30	458	13.74	36	229	8.24						
UC High Activity Room	16	458	7.33	16	174	2.78						
Lincoln	36	458	16.49	36	229	8.24						
Total			300.91			155.56			0.69	0.53	63.6%	57.5%

Table 25 shows the calculation of the *ex post* kW reduction for gymnasium lighting retrofit.

Table 25
Ex Post kW Reduction
Gymnasium Lighting Retrofit

	Non-Harvesting	Harvesting	Total
Total Connected kW	238.16	62.75	300.91
Pre-kW Adjustment Factor	0.69	0.53	
Pre-kW	163.29	33.37	196.65
%-kW Reduced	63.6%	57.5%	
Ex Post kW Reduced	103.86	19.20	123.06

5.4 Impact Evaluation - Occupancy Sensors in Hallways, Faculty Restrooms, Locker Room Lighting

Occupancy sensors were installed in areas where it was perceived lights were left on for extended periods of time when lighting is not needed. Hallways, faculty restrooms and locker rooms were identified as areas with potential for energy savings. Only tubular fluorescent fixtures were controlled through this measure. Table 26 provides a summary of occupancy sensor installations and *ex ante* savings estimates.

The installation contractors provided detailed reports on each installation. These reports are included in Appendix C. SDG&E had staff that verified the data in these reports through on-site verification.

5.4.1 Ex Ante Impact Estimates – Occupancy Sensors

Ex ante impacts were based on estimating basecase energy consumption and applying a savings fraction estimate developed by program staff. Table 26 shows the calculations by space type.

Hours of operation were estimated for each space type. Hallways were assumed to operate 24/7. Locker rooms were estimated to operate 10-hours/day, 180 days/year. Operating hours for faculty restrooms assumed 25% of lights were on 24/7 with normal hours of 10 hr/day. The formula used was:

$$\text{Operating Hours} = (10 \text{ hr/day} \times 180 \text{ days/yr}) + (0.25 \times 8760).$$

Savings fractions were developed by program staff where estimates of the percent-reduction in operating attributed to occupancy sensors were developed. In addition, estimates of percent-reduction in peak kW were developed by program staff.

Table 26
Occupancy Sensor Installation and *Ex Ante* Savings Summary

Ex Ante	Faculty Rest Rooms	P.E. Locker Rooms	Hallways	Total
# Schools	158	38	28	
# Sensors	1,088	454	162	1,704
Controlled kW	86.04	201.07	68.756	355.87
kWh %-Savings	45%	50%	70%	
kW %-Savings	10%	5%	10%	
Hrs per Day		10	24	
Days per Week		5	7	
Days per Year		180	365	
Op Hours	3,990 (See Note 1)	1,800	8,760	
Annual Consumption	343,300	361,933	602,303	
%-Savings (kWh)	45%	50%	70%	
kWh Savings	154,485	180,967	421,612	757,063
%-Reduced (kW)	10%	5%	10%	
kW Reduced	8.60	10.05	6.88	25.53

Note 1: Op. hours for faculty restrooms assumed 25% of lights were on 24/7 with normal hours of 10 hr/day. The formula used was: Op Hrs=(10 hr/dayx180days/yr)+(0.25x8760)

5.4.2 *Ex Post* Impact Estimates – Occupancy Sensors

The installation of occupancy sensors occurred quickly once the decision to implement the measure was made. In order to meet project deadlines the installation process had to start as soon as possible. This affected the evaluation in that loggers could only be installed light loggers for a short period prior to installation. This impacted our ability to gather basecase operating hours across a variety of conditions. In most cases we had a month or less to deploy loggers prior to occupancy sensor installation.

5.4.2.1 Hours of Operation

The installation of occupancy sensors and the lighting load controlled were verified *ex post* on-site. Operating hours for basecase and postcase conditions were verified through light loggers. Light loggers were installed during April and May 2005 and were removed during March and April 2006. Occupancy sensors were installed during May through October 2005. Most loggers were installed during May and June 2005.

Loggers were removed and the data were downloaded. The data were parsed into basecase and postcase periods. The percent-on for each period was calculated using the logger software. The average percent-on was calculated for each space type. Annual operating hours for basecase and postcase periods for each space type were estimated by multiplying 8,760 hours by the average percent-on.

Table 27 shows the average percent-on and *ex post* annual operating hours for the occupancy sensors by space type and for the basecase and postcase.

Table 27
Ex Post Hours of Operation
Occupancy Sensors in Faculty Restrooms, Locker Rooms and Hallways

	n	Avg %-On		Annual Operating Hours	
		Basecase	Postcase	Basecase	Postcase
Hallway	15	50.2%	35.5%	4,396	3,108
Locker Room	10	47.4%	42.6%	4,151	3,727
Restroom	39	32.4%	25.0%	2,836	2,190

5.4.2.2 Connected Load

The estimation of connected load for the occupancy sensor measure was based on the *Occupancy Sensor Field Installation Report* in Appendix C. On-site inspections were routinely conducted by SDG&E program staff to verify the installed fixtures and sensors. On-site verifications were also done as part of this evaluation. The fixtures comprising the connected load were verified through these site visits indicating the effectiveness of the detailed inspections conducted by SDG&E.

The connected load for occupancy sensors is shown in Table 28 by space type, as well as the number of sensors installed.

Table 28
Connected Load
Occupancy Sensors in Faculty Restrooms, Locker Rooms and Hallways

	Faculty Rest Rooms	P.E. Locker Rooms	Hallways	Total
# Schools	158	38	28	
# Sensors	1,088	454	162	1,704
Connected kW	86.04	201.07	68.756	355.87

5.4.2.3 Ex Post Load Impacts – Occupancy Sensors

The *ex post* savings for occupancy sensors was calculated by first estimating basecase and postcase consumption. This was done by multiplying the connected load for each space type by the verified annual operating hours for basecase and postcase periods. The savings was the difference of the basecase and postcase consumption.

Table 29
Ex Post Energy Savings
Occupancy Sensors in Faculty Restrooms, Locker Rooms and Hallways

Ex Post	Faculty Rest Rooms	P.E. Locker Rooms	Hallways	Total
# Schools	158	38	28	
# Sensors	1,088	454	162	
Controlled kW	86.04	201.07	68.756	
Basecase Op Hours	2,836	4,151	4,396	
Postcase Op Hours	2,190	3,727	3,108	
Basecase kWh Consumption	244,009	834,731	302,276	
Postcase kWh Consumption	188,465	749,479	213,684	
kWh Savings	55,544	85,252	88,592	229,388
%-Savings (kWh)	23%	10%	29%	

Peak kW reduction was estimated by developing a factor for the percent peak kW reduction. The DEER database was used to estimate this factor. DEER data extracts for occupancy sensors in the primary and secondary education sensor were run for climate zones 7 and 10. These extracts contained data on the Peak Demand Impact, termed *PCImpact* in DEER, in Watts per Common Unit for the measure. The Common Units for Occupancy Sensors in DEER is *kW of LtgCtrl*, *kW Ctrl*, the kW of lighting that is controlled by the occupancy sensor. The average of these values was calculated (8.53%) and used to estimate the kW Reduced for this measure as shown in Table 30.

Table 30
Ex Post Peak kW Reduction Estimate
Occupancy Sensors in Faculty Restrooms, Locker Rooms and Hallways

	Faculty Rest Rooms	P.E. Locker Rooms	Hallways	Total
Controlled kW	86.04	201.074	68.756	355.87
%-Peak kW reduced from DEER for the primary and secondary education sector	8.53%	8.53%	8.53%	
Peak kW Reduced	7.34	17.15	5.86	30.36

5.5 Impact Evaluation - Emergency Relays

Emergency relays, also known as “generator transfer devices,” were installed on classroom lighting to provide energy savings while maintaining sufficient lighting in the event of an emergency event. The emergency relay works in conjunction with an auxiliary/emergency power source to power existing fluorescent fixtures for lighting regardless of the fixture wall switch position. In a normally wired lighting system in a SDCS school, one or more fixture in each classroom or area is left on 24 hours a day,

7 days a week to ensure there is adequate lighting in the event of an emergency. When emergency relays are used, typically, one relay per fixture is used. This allows the relay to bypass the fixture wall switch, allowing the building's emergency power source to turn on those fixtures. Under non-emergency conditions these lights are turned off, rather than on, thus providing the means for saving energy.

In addition, 'backup power' in the form of emergency lights was installed in hallways (roughly one in every five fixtures) and in classrooms (one fixture per room). The existing arrangement featured these emergency fixtures connected to battery power 24-hours a day, 7-days a week; the retrofit arrangement installed a circuit switch allowing the emergency fixtures to be activated only in conditions of a power outage.

5.5.1 *Ex Ante* Load Impacts – Emergency Relays

The *ex ante* load impacts for emergency relays were estimated by calculating hours saved from the installation of the relays and multiplying by the controlled kW. The basecase operating hours, 8,760, assumes the emergency lights are operating 24/7. This is a reasonable assumption, as that is how the lighting systems were designed. The postcase operating hours assumes 10 hours/day for 180 school days. Thus, the hours saved is the basecase minus the postcase. The peak kW reduced is assumed to be the controlled kW that was turned off under normal conditions.

Table 31
***Ex Ante* Load Impacts - Emergency Relays**

	Emergency Relays
# Schools	7
# Emergency Relays	403
kW per Relay	0.064
Controlled kW	25.79
Basecase Op Hours	8,760
Postcase Op Hours	1,800
Basecase kWh Consumption	225,938
Postcase kWh Consumption	46,426
kWh Savings	179,512
Peak kW Reduced	25.79

5.5.2 *Ex Post* Load Impacts – Emergency Relays

Ex post load impacts were estimated by applying refined hours of operation to the energy savings calculation and verifying the installation of the relays through on-site inspections. Relays were installed in two basic types of space: classrooms and hallways. Hours of operation for hallways was taken from the logged data shown in Table 27. The value of hours for rooms was the *ex ante* value of 10 hours per day, 184 days a school year.

No peak demand savings exist for this measure, as the lights are expected to be turned on during the peak period under normal operation. The lights will be turned off during after-hours.

Table 32
Ex Post Energy Savings
Emergency Relays

	Emergency Relays	Halls	Rooms	Total
# Schools	7			
# Emergency Relays	403	84	319	
kW per Relay	0.064			
Controlled kW	25.79	5.38	20.42	
Basecase Op Hours	8,760	8,760	8,760	
Postcase Op Hours		3,108	1,840	
Basecase kWh Consumption	225,938	47,094	178,844	
Postcase kWh Consumption		16,709	37,565	
kWh Savings		30,385	141,279	171,664
Peak kW Reduced				0

5.6 Impact Evaluation - Beta Schools with Occupancy Sensors

Beta schools are schools that have volunteered to pay for their own utility bills, on what is called a “site base budgeting” basis. Baseline energy consumption for each school is determined, possibly from the previous year’s energy consumption history. If they consume more energy in the current year, they will pay for the additional energy out of their own pocket. If they use less, they keep the savings. There are 20 schools on the Beta list. In reward for their participation they have been given the highest priority for this program.

Extensive lighting audits at the 20 Beta schools were performed by a lighting contractor. Occupancy sensors were installed in each of the 20 schools totaling 201 kW in *ex ante* connected lighting load.

5.6.1 Ex Ante Load Impacts – Beta Schools

The *ex ante* load impact calculations were calculated by calculating basecase energy consumption and applying a percent-savings factor to the consumption for the kWh savings. The peak kW reduction was calculated by multiplying the controlled kW by a percent-savings factor. The savings are shown in Table 33.

Table 33
Ex Ante Savings Estimates
Beta Schools

Ex Ante	Total
# Schools	20
# Sensors	510
Controlled kW	201.08
kWh %-Savings	30%
kW %-Savings	5%
Hrs per Day	10
Days per Year	180
Annual Op Hours	1,800
Annual Consumption	361,944
%-Savings (kWh)	30%
kWh Savings	108,583
%-Reduced (kW)	5%
kW Reduced	10.05

5.6.2 Ex Post Load Impacts – Beta Schools: Occupancy Sensors

The approach used to estimate *ex post* savings for Beta schools was the calculation of basecase kWh consumption and the application of a percent-savings factor for the space type. Space types were matched with an appropriate set of basecase operating hours and applying a percent-savings. Hours from the occupancy sensor monitoring was used for Locker Rooms. Operating hours for the other spaces were estimated to be 10 hours per day for the 184 days in a school year.

Monitored data from the occupancy sensor measure was used to estimate the percent-savings for Locker Rooms. DEER was the source for percent-savings for occupancy sensors in private and open offices, classrooms, and conference rooms.

Table 34 shows the *ex post* kWh savings for occupancy sensors installed at Beta schools.

Table 34
Ex Post Energy Savings Estimate
Occupancy Sensors in Beta Schools

	Private Office	Open Office	Classroom	P.E. Locker Rooms	Conference Room	Total
Controlled kW	50.55	72.06	61.80	12.01	4.67	201.08
Basecase Op Hours	1,840	1,840	1,840	4,151	1,840	
Basecase kWh Consumption	93,008	132,592	113,706	49,841	8,593	397,741
%-Savings	30%	15%	20%	10%	16%	
kWh Savings	27,902	19,889	22,741	4,984	1,375	76,892

Peak kW reduction was estimated by developing a factor for the percent peak kW reduction. The DEER database was used to estimate this factor. DEER data extracts for occupancy sensors in the primary and secondary education sensor were run for climate zones 7 and 10. These extracts contained data on the

Peak Demand Impact, termed *PCImpact* in DEER, in Watts per Common Unit for the measure. The Common Units for Occupancy Sensors in DEER is *kW of LtgCtrl*, *kW Ctrl*, the kW of lighting that is controlled by the occupancy sensor. The average of these values was calculated (8.53%) and used to estimate the kW Reduced for this measure as shown in Table 35.

Table 35
Ex Post Peak kW Reduction Estimate
Occupancy Sensors in Beta Schools

	Private Office	Open Office	Classroom	P.E. Locker Rooms	Conference Room	Total
Controlled kW	50.548	72.061	61.797	12.006	4.67	201.082
%-Peak kW reduced from DEER for the primary and secondary education sector	8.53%	8.53%	8.53%	8.53%	8.53%	
Peak kW Reduced	4.31	6.15	5.27	1.02	0.40	17.15

6 Net-To-Gross

The *ex ante* net-to-gross ratio (“NTGR”) for all measures installed was 0.96. Key SDCS staff were interviewed to determine to what extent the program affected the decision to implement the measures. Each respondent indicated that without the program the measures would not have been implemented by SDCS. They indicated the complexity of implementing this program resulting in barriers that arose had to be overcome, otherwise the measures would not have been installed. Among the activities that faced these barriers were:

- Conducting audits of SDCS facilities
- Quantification of savings and selection of measures
- Procuring contractors and managing the installation of measures

The installation of measures could not have proceeded without these tasks being completed. SDG&E mobilized staff to address each of these barriers. These staff conducted audits, did energy savings calculations, screened measures (in conjunction with SDCS), got installation contractors on-board, and performed much of the project management, in conjunction with the SDCS project coordinator (also part of the partnership on behalf of SDCS).

In addition to the implementation barriers identified above, SDCS was also experiencing pressures on funding that impacted some higher cost measures that were not selected for implementation, such as chiller replacements at one elementary school. The incentives provided financial assistance that helped SDCS overcome cost hurdles.

The procedural barriers to the program that had to be overcome appeared to outweigh the cost barriers in terms of implementation success for this partnership program. The program recognized these barriers and overcame each one. Without the program these measures would not have been installed. These findings support the *ex ante* NTGR of 0.96.

7 Process Evaluation

The process evaluation evaluated the effectiveness of the energy efficiency delivery systems of the Program. The program was intended to be implemented with SDG&E supporting the efforts of SDCS' Prop MM projects. Detailed audits of school facilities were to be performed by a contractor procured by SDCS. SDG&E would support the installation of the measures identified through the audits with planning and engineering support, as well as, provide assistance for implementation planning and management.

Figure 2 shows the proposed logic model for the program. As discussed below, link 4 in the logic model could not be completed thus inhibiting all subsequent tasks.

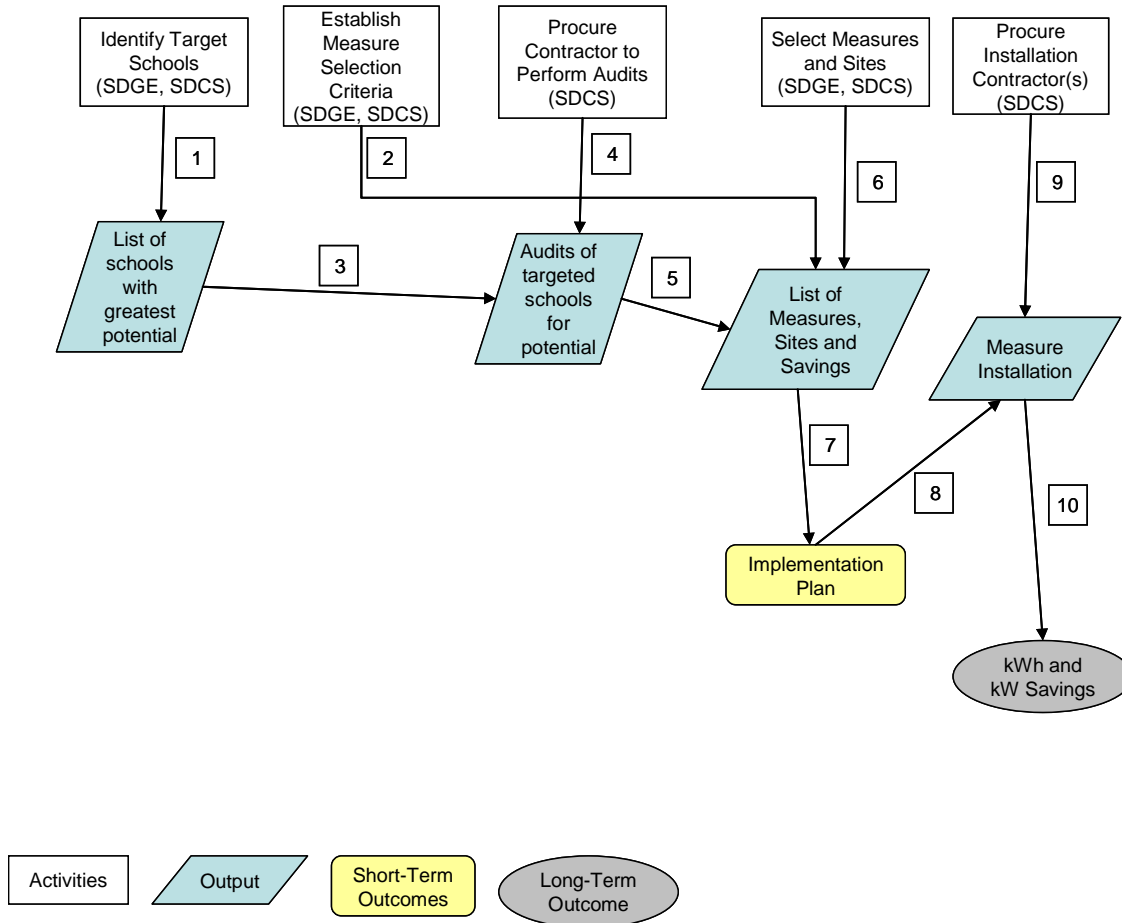
SDCS had difficulties procuring the auditing contractor due to procurement and approval practices. SDG&E took on the auditing role and conducted a series of assessment activities to hone in on measures that could be implemented and generate energy savings. The original concept of augmenting Prop MM efforts seemed to be abandoned in the overall effort to implement measures that would generate energy savings.

Due to SDCS' difficulties in procuring an auditing contractor, SDG&E's Governmental Services Department assumed the role of performing site assessments, including audits and engineering analysis. These staff gathered and analyzed information on potential measures and corresponding site data in order to assess the feasibility of the measures. Due to various timing issues the bulk of the work, including installation took place during 2005. This required efficient planning and coordination among all parties.

SDCS filled a position, project coordinator, to serve as a liaison between SDCS, SDG&E and installation contractors. The project coordinator proved to be critical to ensuring adequate SDCS resources were provided to ensure the involved parties had adequate access and were working in a coordinated, effective fashion. Figure 3 shows the logic model for the program as implemented. It shows the following changes made to the program during implementation:

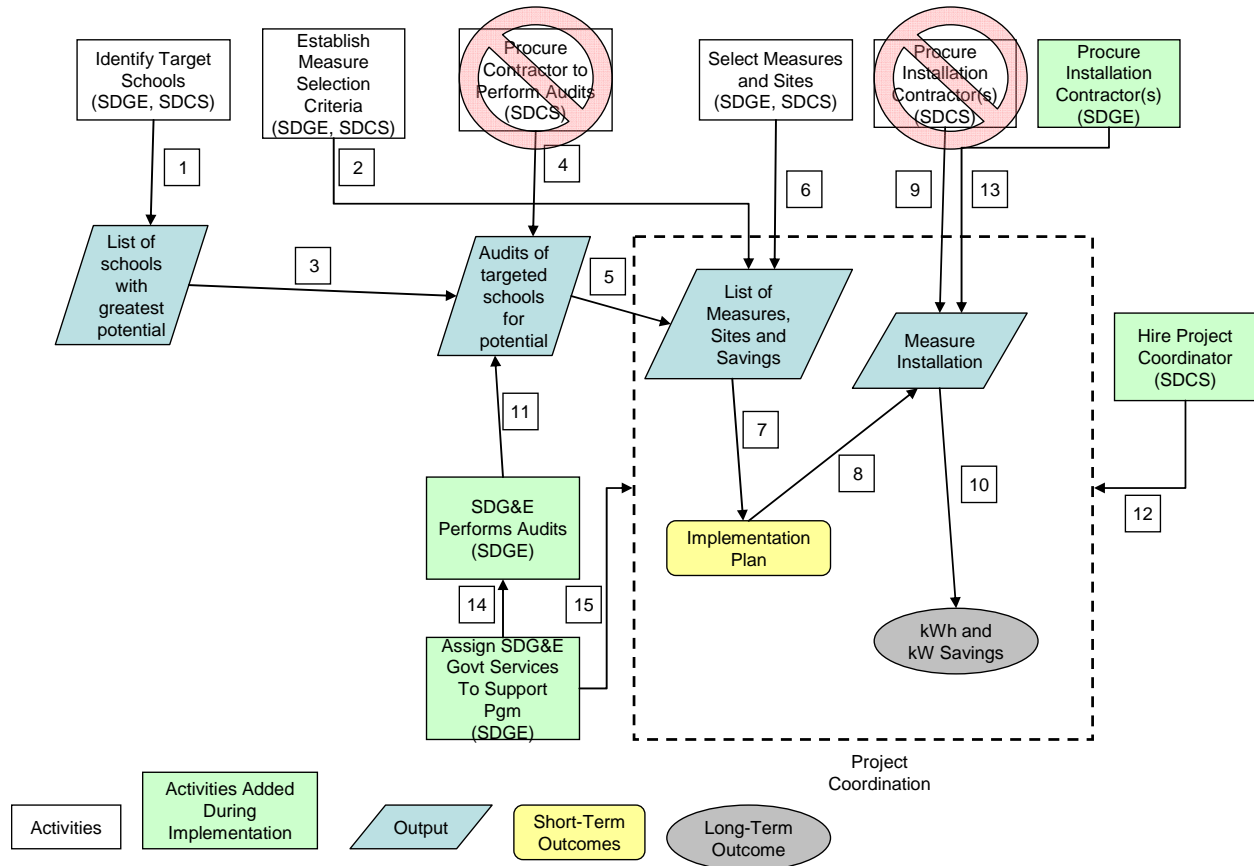
- SDG&E assigned its Governmental Services Department to support the program.
 - SDG&E conducted audits of schools rather than a contractor hired by SDCS.
 - Assist SDCS in screening measures and estimating savings.
 - Assist in procuring installation contractors.
- SDCS staffed a project coordinator position.

Figure 2
Proposed Logic Model
San Diego City Schools Retrofit & Partnership Program



Through the program, lighting subcontractors were hired to perform installation services for the measures that were identified in the implementation plan. Both SDG&E and SDCS conducted inspections to ensure quality control.

Figure 3
Ex Post Logic Model
San Diego City Schools Retrofit & Partnership Program



7.1.1 Process Evaluation Recommendations

The following recommendations were made

- Understand organizational dynamics and constraints.** It is important to understand organization dynamics, such as, procurement policies, of the partner organizations to ensure that necessary approvals for resources can be obtained. For example, school districts and governmental organizations, have strict guidelines regarding procurement that require public notice and review periods that can last lengthy periods of time, leading to delays in the project. Where possible these bottlenecks should be either planned for or avoided in program design. In some instances, the utility partner can take on responsibilities that include procurement and payment of outside parties, such as installation contractors. If there are to be co-payment of measures by the school district partner, then these co-payments can be planned and included in the partnership agreement, with an appropriate means to make this payment from the school district to an appropriate and approved party, perhaps the utility for disbursement to the installation contractors. Finding ways to work within the organizational constraints can be challenging, but a key to the success of a partnership program. SDG&E and SDCS made changes

to the program design “on the fly” that enabled the program to be completed, however, the earlier such situations can be identified and remedies developed, the better the program can function normally.

- **Plan for detailed site assessments.** One of the initial steps that must be performed for this type of program is site assessment to identify potential measures for installation. The manner in which this task is to be performed must be considered carefully, for it takes time and resources to successfully complete. This program actually had site audits planned, but the plan could not be carried out due to procurement issues on the part of SDCS.
- **Obtain improved data on basecase operations.** An integral and necessary part in performing site assessments is the collection of data on basecase operations of facilities. Leveraging existing data sources, such as trend data from the SDCS energy management control system can help in this effort, as can utilizing sampling approaches to gather such data. In particular basecase operating hours of equipment, such as lighting, can be monitored and used to validate *ex ante* assumptions about potential savings.

8 Appendices

8.1 Appendix A: CPUC Reporting Table

Program ID*: 1383-04		Program Name: San Diego City Schools Retrofit and Partnership Program						
Year	Calendar Year	Gross Program-Projected MWh Savings	Net Evaluation Confirmed Program MWh Savings	Gross Program-Projected Peak MW Savings	Evaluation Projected Peak MW Savings*	Gross Program-Projected Therm Savings	Net Evaluation Confirmed Program Therm Savings	
1	2004	0	0	0.0000	0.0000	0	0	
2	2005	1,629	220	0.1569	0.0291	0	0	
3	2006	3,248	2,166	0.3187	0.2264	0	0	
4	2007	3,248	2,166	0.3187	0.2264	0	0	
5	2008	3,248	2,166	0.3187	0.2264	0	0	
6	2009	3,248	2,166	0.3187	0.2264	0	0	
7	2010	3,248	2,166	0.3187	0.2264	0	0	
8	2011	3,248	2,166	0.3187	0.2264	0	0	
9	2012	3,248	2,166	0.3187	0.2264	0	0	
10	2013	1,618	1,946	0.1618	0.1973	0	0	
11	2014		1,946		0.1181	0	0	
12	2015		820		0.1181	0	0	
13	2016		820		0.1181	0	0	
14	2017					0	0	
15	2018					0	0	
16	2019					0	0	
17	2020					0	0	
18	2021					0	0	
19	2022					0	0	
20	2023					0	0	
TOTAL	2004-2023	25,981	20,914	2.5494	2.1657	0	0	

*Please include the definition of Peak MW used in the evaluation.
 Definition of Peak MW as used in this evaluation: coincident peak demand

8.2 Appendix B: Time Clock Field Installation Report

School	ID #	Item	Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled	Date Complete	Comments	
San Diego HS	TC001	1	1	Near B-3	Panel on right standard next bldg B-3	No marking	5	1	120	0	0.00	Timer Power only	1/9/06	
San Diego HS	TC001	1		Near B-3	Panel on right standard next bldg B-3	No marking	1.3	0	208	16.4	3.41	Street Lights & parking poles	1/9/06	
San Diego HS	TC001	2	1	900	Room 947 3rd floor	3H1	13	1	277	0	0.00	Timer Power only	1/9/06	
San Diego HS	TC001	2		900	Room 947 3rd floor	3H1	11	0	277	2.3	0.64	3rd floor walkway lights	1/9/06	
San Diego HS	TC001	3	1	900	Room 947 3rd floor	EPS Unit	6	1	277	0	0.00	Timer Power only	1/9/06	
San Diego HS	TC001	3		900	Room 947 3rd floor	EPS Unit	8	0	277	2.4	0.66	Emergency walkway lights	1/9/06	
San Diego HS	TC001	3		900	Room 947 3rd floor	EPS Unit	10	0	277	2.4	0.66	Emergency walkway lights	1/9/06	
San Diego HS	TC001	4	1	900	Room 905, 1st floor	IH1	41	1	277	0	0.00	Timer Power & controls existing	1/9/06	
San Diego HS	TC001	4		900	Room 905, 1st floor	IH1	31	0	277	2	0.55	Wallpack fixture	1/9/06	
San Diego HS	TC001	4		900	Room 905, 1st floor	IH1	33	0	277	2.3	0.64	1st floor walkway lights	1/9/06	
San Diego HS	TC001	4		900	Room 905, 1st floor	IH1	35	0	277	3.6	1.00	2nd floor walkway lights	1/9/06	
San Diego HS	TC001	4		900	Room 905, 1st floor	IH1	39	0	277	1	0.28	Covered plaza lights	1/9/06	
San Diego HS	TC001	5	1	800	Electrical Room eastside EPU inverter	inverter	2	1	120	7.1	0.85	North Bldg wall lights	1/9/06	Outputs from inverter to contactor broken down to 4 circuits (40 - 43)
San Diego HS	TC001	5		800	Electrical Room eastside EPU inverter	inverter	3		120	9.1	1.09	East bldg wall lights	1/9/06	Outputs from inverter to contactor broken down to 4 circuits (40 - 43)
San Diego HS	TC001	5		800	Electrical room east side	L1	6		120	5.3	0.64	Exterior Lighting	1/9/06	Outputs from inverter to contactor broken down to 4 circuits (40 - 43)
San Diego HS	TC001	5		800	Electrical room east side	L1	8		120	5.6	0.67	Exterior Lighting	1/9/06	Outputs from inverter to contactor broken down to 4 circuits (40 - 43)
San Diego HS	TC001	6	1	200	Electrical room inside Gym Lobby area	PG	15	1	120	0	0.00	Timer Power & controls 3 pole contactor	1/9/06	
San Diego HS	TC001	6		200	Electrical room inside Gym Lobby area	LG	20		277	6	1.66	Exterior Lighting	1/9/06	
San Diego HS	TC001	6		200	Electrical room inside Gym Lobby area	LG	22		277	7.6	2.11	Parking lot lights	1/9/06	
San Diego HS	TC001	6		200	Electrical room inside Gym Lobby area	LG	24		277	0	0.00	Future parking lot lights	1/9/06	
San Diego HS	TC001	7	1	200	Boys Locker Room	PG	4	1	120	4.5	0.54	Roof floodlights	1/9/06	
San Diego HS	TC001	8	1	600	Downstairs Hallway Panel in ROTC	7C	13	1	120	2.2	0.26	Lower Hallway Lights, Exterior	1/9/06	
San Diego HS	TC001	9	1	500	Room 555	A	7	1	120	2	0.24	Upper Hallway Lights, Exterior	1/9/06	
San Diego HS	TC001	10	1	700	Hallway by panel A	A	6	1	120	2.2	0.26	Exterior wallpacks (compact fluorescents)	1/9/06	
San Diego HS	TC001	11	1	400	Electrical Room behind boys restroom	LF	27	1	277	1.4	0.39	Exterior shade lights (compact fluorescents)	1/9/06	
San Diego HS	TC001	12	1	400	Electrical Room behind boys restroom	PJ	16	1	120	0	0.00	Timer Power Only	1/9/06	
San Diego HS	TC001	12		400	Electrical Room behind boys restroom	LF	22		277	8	2.22	Exterior building Lights	1/9/06	
San Diego HS	TC001	13	1	300	Library Office 350D back wall	PB	8	1	120	1.5	0.18	HPS floodlights on north wall	1/9/06	
San Diego HS	TC001	14	1	300	Supply Room, Custodial lower level	PE	28	1	120	0	0.00	Timer Power Only	1/9/06	
San Diego HS	TC001	14		300	Supply Room, Custodial lower level	LD	15		277	2.5	0.69	Exterior bldg & site lights	1/9/06	
San Diego HS	TC001	14		300	Supply Room, Custodial lower level	LD	17		277	3.8	1.05	Exterior bldg & site lights	1/9/06	
San Diego HS	TC001	14		300	Supply Room, Custodial lower level	LD	19		277	1.2	0.33	Exterior bldg & site lights	1/9/06	
San Diego HS	TC001	15	1	100	Room 106A, Electrical room in rear.	PA	41	1	120	0	0.00	Timer Power Only	1/9/06	
San Diego HS	TC001	15		100	Room 106A, Electrical room in rear.	LA	28		277	7.9	2.19	Northwest 2nd floor lights	1/9/06	
San Diego HS	TC001	15		100	Room 106A, Electrical room in rear.	LA	30		277	7.7	2.13	Exterior wallpacks	1/9/06	
San Diego HS	TC001	15		100	Room 106A, Electrical room in rear.	LA	32		277	5.1	1.41	Exterior Lighting	1/9/06	
San Diego HS	TC001	16	1	1000	Room 1026	RHSCJ	9	1	277	1.2	0.33	Exterior Lighting	1/9/06	
Maintenance Center		1	1	Main	Electrical closet near front of bldg	ML10	42	1	120		0.00	timer & contractor coil power	2/1/06	
Maintenance Center				Main	Electrical closet near front of bldg	LL10	7		277	0	0.00	tree lights (disconnected)	2/1/06	
Maintenance Center				Main	Electrical closet near front of bldg	LL10	16		277	5.2	1.44	parking lot lights	2/1/06	
Maintenance Center				Main	Electrical closet near front of bldg	LL10	18		277	5.8	1.61	parking lot lights	2/1/06	
Florence ES	TC009	1	1	Main	top floor hallway across from room 105	2A	34	1	120	2.8	0.34	Outside walkway lights	2/2/06	
Florence ES	TC009	2	1	Main	bottom floor hallway across from room 107	A	21	1	120	1	0.12	Outside walkway lights	2/2/06	
Florence ES	TC009	2		Main	bottom floor hallway across from room 107	A	23		120	3.9	0.47	Outside walkway lights	2/2/06	
Florence ES	TC009	3	1	B-2	bungalow southside school	C-3	10	1	120	1.8	0.22	playground lights	2/2/06	
Florence ES	TC009	4	1	Library	back office room	D	1	1	120	3.5	0.42	outside library lights	2/2/06	
Florence ES	TC009	5	1	C-2	southeast corner bungalow west side of school	C-4	1	1	120	2	0.24	outside lights north side	2/2/06	
Florence ES	TC009	6	1	Main	outside boys bathroom top floor west end	A-1	9	1	120	4.6	0.55	2 flood lights west end of main blvd	2/2/06	lights controlled by breaker.
Florence ES	TC009	7	1	Auditorium	backstage right side	B	16	1	120	2.2	0.26	walkway lights	2/2/06	
Ocean Beach ES	TC021	1	1	Office	Electrical Room	03.04C	10	1	120	4.2	0.50	exterior bldg lights on sunset cliffs blvd side	1/30/06	
Ocean Beach ES	TC021	2	1	Office	Electrical Room	03.04C	9	1	120	4.5	0.54	exterior lights on canopy & under canopy of office	1/30/06	
Ocean Beach ES	TC021	3	1	Library	Mechanical Room	LIB	6	1	120	2.4	0.29	exterior bldg lights	1/30/06	
Ocean Beach ES	TC021	4	1	B5	Inside Classroom B5	35	1	120	1.6	0.19	exterior flood lights	1/30/06		
Ocean Beach ES	TC021	5	1	B6	Inside Classroom B6	36	1	120	2.1	0.25	exterior flood lights	1/30/06		
Ocean Beach ES	TC021	6	1	1st & 2nd grade	Inside Classroom #16	06.07A	9	1	120	7.5	0.90	exterior wallpacks	1/30/06	
Ocean Beach ES	TC021	7	1	K1 / K2	In between restrooms in rear between classrooms	13B	2	1	120	2.8	0.34	exterior bldg lights & floods	1/30/06	
SCPA AT	TC171	1	1	Supply	Back room in the supply center	PF	1	1	120	2.2	0.26	HPS wallpacks	1/18/06	
SCPA AT	TC171	2	1	Cafeteria	Kitchen hallway by back door, north side	PG3	11	1	120	3.5	0.42	HPS wallpacks	1/18/06	The HID lights in the lunch court are on switches in the kitchen only. They are only used during events.
SCPA AT	TC171	3	1	Music	In music lab #4 on south wall across from panel PC	PC	29	1	120	5.1	0.61	HPS wallpacks	1/18/06	

Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location				Time Clocks							Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled				
SCPA AT	TC171	4	1	Music	In office across from dance studio #5	PE	10	1	120	4	0.48	HPS wallpacks	1/18/06		
SCPA AT	TC171	5	1	Music	Inside dance office #1 across from dance room #2	PD	10	1	120	5	0.60	HPS wallpacks	1/18/06		
SCPA AT	TC171	6	1	Auditorium	Orchestra pit stairs top landing	PB2	18	1	120	5	0.60	timer contactor & exterior lights	1/18/06	The 16 pole lights in the quad lawn area are breaker controlled only. The original timer controlled contactor still exists but the wires are going underground have been cut off & a new run to a different location is now how they are working.	
SCPA AT	TC171	6		Auditorium	Orchestra pit stairs top landing	PB2	33		208	13.5	2.81	walkway pole lights	1/18/06		
SCPA AT	TC171	6		Auditorium	Orchestra pit stairs top landing	PB2	35		208	13.4	2.79	walkway pole lights	1/18/06		
SCPA AT	TC171	6		Auditorium	Orchestra pit stairs top landing	PB2	37		208	17.8	3.70	parking lot lights	1/18/06		
SCPA AT	TC171	6		Auditorium	Orchestra pit stairs top landing	PB2	39		208	17	3.54	parking lot lights	1/18/06		
SCPA AT	TC171	7	1	Office	Telephone equipment room by panel PA2	PA1	1	1	120	6.7	0.80	exterior wallpacks	1/18/06		
SCPA AT	TC171	8	1	200	Electrical room #2	PM1	2	1	120	6.8	0.82	HPS wallpacks	1/18/06		
SCPA AT	TC171	9	1	Media Center	Inside central distribution room, in the media production center	PL1	1	1	120	7	0.84	HPS wallpacks & exterior bldg lights	1/18/06		
SCPA AT	TC171	10	1	400	Electrical room on the wall by the door in custodian room	PK2	2	1	120	5	0.60	HPS wallpacks	1/18/06		
SCPA AT	TC171	11	1	500	Classroom #501 b panel PJ	PJ	17	1	120	2.3	0.28	HPS wallpacks	1/18/06		
SCPA AT	TC171	12	1	600 (FE)	Inside storage room by panel PH	PH	1	1	120	5.5	0.66	HPS wallpacks	1/18/06		
Hamilton MS	TC047	1	1	Admin	Mechanical / Electrical Room	SDP	1	1	120	6.1	0.73	Roof floods on rooftop at entrance	11/29/05	No lamps in the fixtures. Someone removed them (2-250w HPS)	
Hamilton MS	TC047	2	1	Admin	Inside auditorium 8' high	PPI	26	1	120	9.8	1.18	Wallpacks, on a CFI breaker	11/29/05		
Hamilton MS	TC047	3	1	300	Elec room by classroom 301	L2	23	1	120	0.01	0.00	Timer & contactor power	11/29/05		
Hamilton MS	TC047	3		300	Elec room by classroom 301	HI	13		120	6.8	0.82	exterior walkway lights & stairway lights	11/29/05		
Hamilton MS	TC047	3		300	Elec room by classroom 301	L3	21		120	3.3	0.40	exterior lights on 120 v contactor	11/29/05		
Hamilton MS	TC047	4	1	500	Supply room by boys bathroom, panel in custodian room	A	4	1	120	3.6	0.43	HPS wallpacks south end	11/29/05	Room 513 is locked off with "unsafe to enter" notice, so no one can go inside. Has 2 flood lights (probably not working) on the corner.	
Hamilton MS	TC047	5	1	500	Classroom #517 on wall above wall switches	B	3	1	120	3.5	0.42	HPS wallpacks. Panel in classroom inside cupboard	11/29/05		
Boone MS	TC054	1	1	B-9	Teachers Lounge	B26	5	1	120	2.5	0.30	One 250w HPS flood light on roof	11/28/05		
Boone MS	TC054	2	1	O2-O2	Electrical Room 208, 1st floor east end	L1	19	1	120	2	0.24	Timer & exterior bldg lights	11/28/05		
Boone MS	TC054	2		O2-O2	Electrical Room 208, 1st floor east end	L1	22		120	10.8	1.30	Hallway lights, 2nd floor	11/28/05		
Boone MS	TC054	2		O2-O2	Electrical Room 208, 1st floor east end	L1	24		120	1.5	0.18	Exterior lights	11/28/05		
Boone MS	TC054	2		O2-O2	Electrical Room 208, 1st floor east end	L1	26		120	9	1.08	Exterior HID floodlights	11/28/05		
Language Acad AT	TC162	1	1	Main Office	Closet between nurse and office	01-2B	1	1	120	4.8	0.58	outside parking and hall side lights	1/20/06	100% outside lights controlled by timers.	
Language Acad AT	TC162	1		Main Office	Closet between nurse and office	01-2B	3		120	5.5	0.66	outside parking and hall side lights	1/20/06		
Language Acad AT	TC162	2	1	Main Office	classroom #4	01-04A	8	1	120	6.1	0.73	outside ceiling lights on both sides of bldg	1/20/06		
Language Acad AT	TC162	2		Main Office	classroom #4	01-04A	29		120	5.5	0.66	outside ceiling lights on both sides of bldg	1/20/06		
Language Acad AT	TC162	3	1	New Bldg	mch room east side	0107-6	6	1	120	1.9	0.23	east side bldg	1/20/06		
Language Acad AT	TC162	4	1	New Bldg	mch room east side	0107A	6	1	120	2	0.24	east second floor	1/20/06		
Language Acad AT	TC162	4		New Bldg	mch room east side	0107A	20		120	2.1	0.25	east second floor	1/20/06		
Language Acad AT	TC162	5	1	New Bldg	mch room east side	0107B	10	1	120	2	0.24	west side bldg	1/20/06		
Hoover HS	TC067	1	1	Office	Custodian Closet	NA	2	1	277	2	0.55	Exterior Compact Fluorescent Canopy Lights	11/30/05		
Hoover HS	TC067	2	1	Office	Eastside Electrical Doghouse	NA	11	1	277	8.6	2.38	(6) Parking Lot Pole Lights.	11/30/05	Clocks not changed out yet. Timers will be in around 11-16-05.	
Hoover HS	TC067	3	1	100	Main Electrical Room	KA	7	1	277	1.7	0.47	Exterior Compact Fluorescent Canopy Lights	11/30/05	Clocks not changed out yet. Timers will be in around 11-16-05.	
Hoover HS	TC067	3		100	Main Electrical Room	KA	9		277	1.9	0.53	Exterior Compact Fluorescent Canopy Lights	11/30/05	Clocks not changed out yet. Timers will be in around 11-16-05.	
Hoover HS	TC067	4	1	B7	B7 Classroom	hall Panel in Ro	1	1	120	1.5	0.18	Exterior Compact Fluorescent Canopy Lights	11/30/05		
Hoover HS	TC067	5	1	200	Auditorium, West Electrical Room	A	3	1	120	4.3	0.52	Exterior Wallpacks	11/30/05		
Hoover HS	TC067	6	1	300	Computer Server & Electrical Room	M	10	1	120	7.9	0.95	Exterior Building Lights	11/30/05		
Hoover HS	TC067	7	1	Kitchen	Kitchen By Door	CFD	10	1	120	2	0.24	Exterior C.F. Wallpacks, west	11/30/05	Will add contactor for roof floods on cafeteria later. Clocks not changed out yet. Timers will be in around 11-16-05.	
Hoover HS	TC067	8	1	400	Electrical Room in SE corner	JA	23	1	277	1.7	0.47	Exterior Compact Fluorescents	11/30/05		
Hoover HS	TC067	9	1	400	Electrical Room in SE corner	JC	41	1	120	4.7	0.56	16' Pole Lights	11/30/05		
Hoover HS	TC067	10	1	400	Electrical Room in SE corner	JC	39	1	120	5.6	0.67	16' Pole Lights w photocell	11/30/05		
Hoover HS	TC067	11	1	500	Room 503	HA	4	1	277	1	0.28	Exterior Compact Fluorescents	11/30/05		
Hoover HS	TC067	12	1	500	Room 503	HA	9	1	277	4.5	1.25	Exterior Wallpacks	11/30/05		
Hoover HS	TC067	13	1	700	Custodian Electrical Closet	GA	9	1	277	2.4	0.66	Exterior C.F. Lights & Wallpacks	11/30/05	Clocks not changed out yet. Timers will be in around 11-16-05.	
Hoover HS	TC067	13		700	Custodian Electrical Closet	GA	11		277	2.3	0.64	Exterior C.F. Lights & Wallpacks	11/30/05	Clocks not changed out yet. Timers will be in around 11-16-05.	
Hoover HS	TC067	14	1	700	Room 703	G1T	8	1	120	3.1	0.37	2-150w HPS Floodlights	11/30/05		
Hoover HS	TC067	15	1	900	Electrical Room Under Bridge	FE	8	1	277	5.7	1.58	16' Pole Lights	11/30/05		
Hoover HS	TC067	16	1	900	Electrical Room in SE corner	FC	30	1	120	0	0.00	Timer Power only	11/30/05		

Appendix B. Time Clock Field Installation Report (continued)

Location										Time Clocks				Date	Comments
School	ID #	Item	Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled	Complete			
Hoover HS	TC067	16	900	Electrical Room in SE corner	FA	2	277	1.3	0.36		Exterior Building Lights	11/30/05			
Hoover HS	TC067	17	1	900	Electrical Room in SE corner	FC	30	1	120	0	Timer Power only	11/30/05			
Hoover HS	TC067	17	1	900	Electrical Room in SE corner	FA	4		277	1.4	0.39	Exterior C.E. Lights & Wallpacks	11/30/05		
Hoover HS	TC067	18	1	1000	Electrical Room in SE corner	DC	20	1	120	0	0.00	Timer Power only	11/30/05		
Hoover HS	TC067	18	1	1000	Electrical Room in SE corner	DA	23		277	4.5	1.25	Walkway Lights, Exterior	11/30/05		
Hoover HS	TC067	19	1	1000	Electrical Room in SE corner	DC	20	1	120	0	0.00	Timer Power only	11/30/05		
Hoover HS	TC067	19	1	1000	Electrical Room in SE corner	DA	21		277	5.3	1.47	Exterior C.F. Night Lights	11/30/05		
Hoover HS	TC067	20	1	1000	Electrical Room in SE corner	DC	20	1	120	0	0.00	Timer Power only	11/30/05		
Hoover HS	TC067	20	1	1000	Electrical Room in SE corner	DE	27		277	9.4	2.60	HPS Wallpacks / 16' Pole Lights	11/30/05		
Hoover HS	TC067	21	1	1100	Closet in Room 1101	CA	7	1	277	3	0.83	Walkway Lights, Exterior	11/30/05		
Hoover HS	TC067	22	1	1100	Closet in Room 1102	CA	9	1	277	3	0.83	Walkway Lights, Exterior	11/30/05		
Hoover HS	TC067	23	1	1200	Mens Faculty Restroom	B	16	1	120	2.5	0.30	250w HPS Floodlights	11/30/05		
Hoover HS	TC067	24	1	1300	Electrical Room 1311. Panel in room behind wall	A	41	1	120	3	0.36	Exterior Building Lights	11/30/05		
Hoover HS	TC067	25	1	Boys PE	Coach's Office	A	29	1	120	2.2	0.28	Timer Power only	11/30/05		
Hoover HS	TC067	25	1	Boys PE	Coach's Office	A	16		120	1	0.12	Exterior Floodlights	11/30/05		
Hoover HS	TC067	25	1	Boys PE	Coach's Office	A	18		120	2.8	0.34	Pole Lights	11/30/05		
Hoover HS	TC067	25	1	Boys PE	Coach's Office	A	22		120		0.00	Building Lights	11/30/05		
Hoover HS	TC067	26	1	Girls PE	Locker Room Hallway	A	5	1	120	5.6	0.67	HPS Floodlights & Wallpacks	11/30/05		
Hoover HS	TC067	27	1	Big Gym	Electrical Room	S	40	1	120	4	0.48	HPS Floodlights & Wallpacks	11/30/05		
Hoover HS	TC067	28	1	Small Gym							0.00	150w HPS Floodlight	11/30/05	Did not change timer, had no significant load.	
Hoover HS	TC067	29	1	Kindergarden Area							0.00	C.F. light by restroom	11/30/05	Did not change timer, had no significant load.	
Patrick Henry HS	TC088	1	1	Main Office	Custodian Romo #5. Panel in Office #2	6LB	3	1	120	38	4.56	Parking lot panel for main pole lights	11/30/05		
Patrick Henry HS	TC088	1	1	Main Office	Custodian Romo #5. Panel in Office #2	6LB			120	45	5.40	Parking lot panel for main pole lights	11/30/05		
Patrick Henry HS	TC088	2	1	S2/S4	Electrical Room between S2 & S4	P2	27	1	120	6.4	0.77	3-HPS wallpacks around S2 & S4.	11/30/05	3 wallpacks with burned out lamps	
Patrick Henry HS	TC088	3	1	100	Storage Room west end of bldg	1LA	14	1	120	2.4	0.29	Walkway lights breezeway lights	11/30/05		
Patrick Henry HS	TC088	4	1	200	Library Electric Room	2LA	22	1	120	0.1	0.01	Timer Power only	11/30/05		
Patrick Henry HS	TC088	4	1	200	Library Electric Room	2LA	10		120	0.6	0.07	2 pole contactor for walkway lights, exterior	11/30/05		
Patrick Henry HS	TC088	4	1	200	Library Electric Room	2LA	12		120	0.3	0.04	3 pole contactor for walkway lights, exterior	11/30/05		
Patrick Henry HS	TC088	5	1	300	Back room behind 305 enter through 303	3LA	42	1	120	1.6	0.19	Walkway & breezeway lights	11/30/05		
Patrick Henry HS	TC088	6	1	400	Faculty Mens Room #2	4LA	11	1	120	1.6	0.19	Walkway & breezeway lights	11/30/05		
Patrick Henry HS	TC088	7	1	500	Custodial Supply room	5LA	35	1	120	1.3	0.16	Walkway & breezeway lights	11/30/05		
Patrick Henry HS	TC088	8	1	Gym	Electrical & Storage room in gym	8PA	36	1	120	9.1	1.09	Roof lights on the gym	11/30/05		
Lewis MS	TC089	1	1	admin	inside main admin office	A	29	1	120	1.8	0.22	outside lights	11/24/06		
Lewis MS	TC089	2	1	main	transformer room	H	1	1	120	1.5	0.18	outside hallway lights	11/24/06		
DePortia MS	TC097	1	1	700	Room 701 classroom	B1	29	1	120	1.3	0.16	Outside walkway lights	11/4/05		
DePortia MS	TC097	1	1	700	Room 701 classroom	I3	31		120	1.2	0.14	Outside walkway lights	11/4/05		
DePortia MS	TC097	2	1	700	Room 714 classroom	B2	31	1	120	1.8	0.22	Outside walkway lights	11/4/05		
DePortia MS	TC097	2	1	700	Room 714 classroom	D	35		120	1.2	0.14	Outside walkway lights	11/4/05		
DePortia MS	TC097	3	1	800	Room 801 classroom	B2	23	1	120	1.2	0.14	Outside walkway lights	11/4/05		
DePortia MS	TC097	3	1	800	Room 801 classroom	D	21		120	2.7	0.32	Outside walkway lights	11/4/05		
DePortia MS	TC097	4	1	800	Room 812 Maint shop	B2	33	1	120	2	0.24	Outside walkway lights	11/4/05		
DePortia MS	TC097	4	1	800	Room 812 Maint shop	CA	35		120	2.1	0.25	Outside walkway lights	11/4/05		
DePortia MS	TC097	5	1	C	C-104 Faculty restroom bldg	U	9	1	120	2	0.24	Exterior bldg lights	11/4/05		
DePortia MS	TC097	6	1	300	Electrical room #326 media bldg	AA	16	1	120	2.9	0.35	Exterior walkway lights	11/4/05		
DePortia MS	TC097	6	1	300	Electrical room #326 media bldg	AA	18		120	3.9	0.47	Exterior walkway lights	11/4/05		
DePortia MS	TC097	7	1	300	Electrical room between 333 & 335	SP	16	1	120	2.2	0.26	Exterior walkway lights	11/4/05		
DePortia MS	TC097	8	1	Student RR bldg	Garden storage room	7	18	1	120	4.7	0.56	Exterior lighting	11/4/05		
DePortia MS	TC097	9	1	PE	Electrical room southwest side	LE	6	1	120	0	0.00	Timer Control only	11/4/05		
DePortia MS	TC097	9	1	PE	Electrical room southwest side	LE	30		120	6.8	0.82	Exterior lighting	11/4/05	on 2 pole contactor existing	
DePortia MS	TC097	10	1	600 Crespi Hall	Choir Storage Room SE corner	AA	33	1	120	7	0.84	Exterior HID floodlights	11/4/05	Clock not changed out yet.	
DePortia MS	TC097	11	1	Office	Main office bldg electrical room #230	GA	20	1	120	16.2	1.94	HPS floodlights	11/4/05		
DePortia MS	TC097	12	1	Office	Main office bldg electrical room #230	GA	16	1	120	2.5	0.30	Exterior walkway lights	11/4/05		
DePortia MS	TC097	12	1	Office	Main office bldg electrical room #230	GA	18		120	2.6	0.31	Exterior walkway lights	11/4/05		
Farb MS	TC098	1	1	Office 2100	Electrical room NE corner	L1-100	7	1	277	0	0.00	parking lot lights	1/19/06		
Farb MS	TC098	1	1	Office 2100	Electrical room NE corner	L1-100	9		277	2.9	0.80	parking lot lights	1/19/06		
Farb MS	TC098	2	1	Office 2100	Electrical room NE corner	L1-100	11	1	277	3.5	0.97	outside compact fluorescents	1/19/06		
Farb MS	TC098	2	1	Office 2100	Electrical room NE corner	L1-100	13		277	5.6	1.55	HPS wallpacks	1/19/06		
Farb MS	TC098	3	1	4200	Electrical room SE corner	L-200	7	1	277	1.1	0.30	outside passageway lights (cf)	1/19/06		
Farb MS	TC098	3	1	4200	Electrical room SE corner	L-200	18		277	0.8	0.22	outside passageway lights (cf)	1/19/06		
Farb MS	TC098	4	1	4300	Electrical room SE corner	L-300	7	1	277	1	0.28	outside passageway lights (cf)	1/19/06		
Farb MS	TC098	4	1	4300	Electrical room SE corner	L-300	18		277	1	0.28	outside passageway lights (cf)	1/19/06		
Farb MS	TC098	5	1	4400	Electrical room SW corner	L-400	7	1	277	1	0.28	outside passageway lights (cf)	1/19/06		
Farb MS	TC098	5	1	4400	Electrical room SW corner	L-400	18		277	1	0.28	outside passageway lights (cf)	1/19/06		
Farb MS	TC098	6	1	4400	Electrical room SW corner	P-400	26	1	120	2.8	0.34	1-250w wallpack (handball court security light)	1/19/06		

Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location				Time Clocks						Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled			
Farb MS	TC098	7	1	4500	Electrical room SW corner	L-500	7	1	277	1	0.28	outside passageway lights (cf)	1/19/06	
Farb MS	TC098	7		4500	Electrical room SW corner	L-500	18		277	1	0.28	outside passageway lights (cf)	1/19/06	
Farb MS	TC098	8	1	4600	Electrical room on North side of bldg	L-600	10	1	277	3.5	0.97	outside bldg CF and passageway lights	1/19/06	
Vista Grande ES	TC104	1	1	Media Center	Electrical Equipment room	XLP	1	1	120	4.4	0.53	parking lot lights	1/27/06	One contactor controls the existing 12 pole contactor with 9 ckts existing for exterior lights throughout.
Vista Grande ES	TC104			Media Center	Electrical Equipment room	XLP	3		120	3	0.36	parking lot walkways	1/27/06	
Vista Grande ES	TC104			Media Center	Electrical Equipment room	XLP	5		120	5.8	0.70	parking lot lights	1/27/06	
Vista Grande ES	TC104			Media Center	Electrical Equipment room	XLP	7		120	6.5	0.78	parking lights / bldg lights	1/27/06	
Vista Grande ES	TC104			Media Center	Electrical Equipment room	XLP	9		120	8.4	1.01	hps bldg wallpacks	1/27/06	
Vista Grande ES	TC104			Media Center	Electrical Equipment room	XLP	11		120	1.8	0.22	ramp lights	1/27/06	
Vista Grande ES	TC104			Media Center	Electrical Equipment room	XLP	2		120	4.6	0.55	walkways	1/27/06	
Vista Grande ES	TC104			Media Center	Electrical Equipment room	XLP	4		120	6.2	0.74	bldg exterior lights	1/27/06	
Vista Grande ES	TC104			Media Center	Electrical Equipment room	XLP	6		120	7.3	0.88	hps bldg & wallpacks	1/27/06	
Vista Grande ES	TC104			Media Center	Electrical Equipment room	XLP	28		120	0	0.00	timer power & contactor ckt	1/27/06	
Serra HS	TC102	1	1	100	Office hallway by faculty lounge	PP1A	42	1	120	0	0.00	Timer Power & Control Circuit	11/15/05	
Serra HS	TC102	1		100	Office hallway by faculty lounge	PP1A	36		120	1.6	0.19	Roof Lights	11/15/05	
Serra HS	TC102	1		100	Office hallway by faculty lounge	LP1A	16		277	7.8	2.16	Courtyard Post Lights	11/15/05	
Serra HS	TC102	1		100	Office hallway by faculty lounge	LP1A	2		277	2.7	0.75	Exterior Lights	11/15/05	
Serra HS	TC102	1		100	Office hallway by faculty lounge	LP1A	4		277	1.7	0.47	Office Lights west	11/15/05	
Serra HS	TC102	1		100	Office hallway by faculty lounge	LP1A	10		277	8.9	2.47	Outdoor Lights	11/15/05	
Serra HS	TC102	1		100	Office hallway by faculty lounge	LP1A	18		277	8.4	2.33	Post Lights	11/15/05	
Serra HS	TC102	2	1	100	Electrical Room, Roof Access	PP1A	42	1	120	0	0.00	Timer Power & Control Circuit	11/15/05	
Serra HS	TC102	2		100	Electrical Room, Roof Access	LP1A	12		277	9.9	2.74	Student Parking Lot Lights	11/15/05	
Serra HS	TC102	2		100	Electrical Room, Roof Access	LP1A	14		277	7.8	2.16	Student Parking Lot Lights	11/15/05	
Serra HS	TC102	2		100	Electrical Room, Roof Access	LP1A	28		277	4.1	1.14	South Walkway lights	11/15/05	
Serra HS	TC102	3	1	200	Room 210, (Roof Access & Mech Room	PP2B	8	1	120	8.8	1.06	Roof floodlights (400w HID)	11/15/05	
Serra HS	TC102	4	1	200	Room 204B office by PNL LP2A	LP2A	40	1	277	6.8	1.88	Post Lights south	11/15/05	
Serra HS	TC102	4		200	Room 204B office by PNL LP2A	LP2A	34		277	3.6	1.00	Exterior compact fluorescents (west)	11/15/05	
Serra HS	TC102	5	1	400	Room 416, west wall by door to courtyard	PP4U	16	1	120	0	0.00	Timer Power & Control Circuit	11/15/05	
Serra HS	TC102	5		400	Room 416, west wall by door to courtyard	LP4B	17		277	3.5	0.97	HPS wallpacks, east side	11/15/05	
Serra HS	TC102	6	1	400	Boiler room by kitchen	LP4A	34	1	277	0	0.00	Timer Power & Control Circuit	11/15/05	
Serra HS	TC102	6		400	Boiler room by kitchen	LP4A	41		277		0.00	Exterior Lights, Lunch Arbor, HID's	11/15/05	
Serra HS	TC102	6		400	Boiler room by kitchen	LP4A	35		277	0	0.00	Exterior Compact Fluorescents	11/15/05	
Serra HS	TC102	6		400	Boiler room by kitchen	LP4A	37		277	0	0.00	Exterior Compact Fluorescents	11/15/05	
Serra HS	TC102	6		400	Boiler room by kitchen	PP4P	12		120		0.00	Control Circuit via Timer	11/15/05	
Serra HS	TC102	7	1	500 (Gym)	SDG&E Electrical Room by front entrance	PP5A	36	1	120	0	0.00	Contact Control Circuit via Timer	11/15/05	
Serra HS	TC102	7		500 (Gym)	SDG&E Electrical Room by front entrance	LP5B	1		277	1.9	0.53	Keosk Lights, Peterson Parkway	11/15/05	
Serra HS	TC102	7		500 (Gym)	SDG&E Electrical Room by front entrance	LP5B	2		277	4.2	1.16	Timer Power, entry lights exterior	11/15/05	
Serra HS	TC102	8	1	500	Boys locker room, electrical closet	LP5A	32	1	277	4.6	1.27	Wallpacks & Post lights	11/15/05	
Serra HS	TC102	8		500	Boys locker room, electrical closet	LP5A	34		277	7.8	2.16	Bldg lights & roof floods (400w HID)	11/15/05	
Serra HS	TC102	8		500	Boys locker room, electrical closet	LP5A	36		277	5.3	1.47	Timer Clock & post lights	11/15/05	
Serra HS	TC102	9	1	300	Electrical room in room 308	LP3A	26	1	277	2.6	0.72	Timer control circuit & exterior lights	11/15/05	
Serra HS	TC102	9		300	Electrical room in room 308	LP3A	28		277	3.7	1.02	post lights, north side	11/15/05	
Serra HS	TC102	10	1	East Concession Stand	East side of football field, closet	PP1O	5	1	120	3.2	0.38	timer control circuit, bldg lights	11/15/05	
Serra HS	TC102	10		East Concession Stand	East side of football field, closet	PP1O	8		120	8.3	1.00	post lights	11/15/05	
Serra HS	TC102	11	1	West Concession Stand	West side of football field, closet	PP11	5	1	120	3.4	0.41	bldg lights & timer	11/15/05	
Serra HS	TC102	12	1	800	Electrical Room	DP8L	12	1	277	0	0.00	timer power and control circuit	11/15/05	Had problems with the timer not turning the lights on on 11-10-05. Found program problems. The computer also had problems. Finally resolved the matter on 11-15-05. Working 100% now.
Serra HS	TC102	12		800	Electrical Room	DP8L	14		277	1.9	0.53	canopy lights north	11/15/05	Had problems with the timer not turning the lights on on 11-10-05. Found program problems. The computer also had problems. Finally resolved the matter on 11-15-05. Working 100% now.
Serra HS	TC102	12		800	Electrical Room	DP8L	16		277	2.3	0.64	canopy lights south	11/15/05	Had problems with the timer not turning the lights on on 11-10-05. Found program problems. The computer also had problems. Finally resolved the matter on 11-15-05. Working 100% now.

Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location				Time Clocks							Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled				
Serra HS	TC102	12	800	Electrical Room	DP8L	18	277	0	0.00	spare		11/15/05	Had problems with the timer not turning the lights on on 11-10-05. Found program problems. The computer also had problems. Finally resolved the matter on 11-15-05. Working 100% now.		
Serra HS	TC102	12	800	Electrical Room	DP8L	20	277	3.7	1.02	parking lot lights		11/15/05	Had problems with the timer not turning the lights on on 11-10-05. Found program problems. The computer also had problems. Finally resolved the matter on 11-15-05. Working 100% now.		
Serra HS	TC102	12	800	Electrical Room	DP8L	22	277	1.7	0.47	spare		11/15/05	Had problems with the timer not turning the lights on on 11-10-05. Found program problems. The computer also had problems. Finally resolved the matter on 11-15-05. Working 100% now.		
Serra HS	TC102	12	800	Electrical Room	DP8L	24	277	3.7	1.02	parking lot lights		11/15/05	Had problems with the timer not turning the lights on on 11-10-05. Found program problems. The computer also had problems. Finally resolved the matter on 11-15-05. Working 100% now.		
Challenger MS	TC105	1	1	Admin	Electrical room by Teachers Lounge	DA	8	1	277	7.6	2.11	Walkways	12/1/05		
Challenger MS	TC105	1		Admin	Electrical room by Teachers Lounge	LAA	8		120	0.1	0.01	Timer Power only	12/1/05		
Challenger MS	TC105	2	1	500	Electrical room	HFE	12	1	277	11.1	3.07	Walkways on bldg 500	12/1/05		
Challenger MS	TC105	2		500	Electrical room	HFE	14		277	5.3	1.47	Walkways on auditorium	12/1/05		
Challenger MS	TC105	2		500	Electrical room	LFEA	40		120	0.1	0.01	Timer Power only	12/1/05		
Challenger MS	TC105	3	1	800	Electrical room	HJ	9	1	277	5	1.39	Walkways	12/1/05		
Challenger MS	TC105	3		800	Electrical room	LJA	34	0	120	0.1	0.01	Timer Power only	12/1/05		
Challenger MS	TC105	4	1	800	Electrical room	LJ	2	1	120	3.1	0.37	Floodlight above elec room	12/1/05		
Challenger MS	TC105	5	1	900	Electrical room #2	HI	7	1	277	11.3	3.13	Walkways	12/1/05		
Challenger MS	TC105	5		900	Electrical room #2	HI	9	0	277	0.1	0.03	Timer Power only	12/1/05		
Challenger MS	TC105	6	1	400	Electrical room	HE	7	1	277	3.2	0.89	Walkways	12/1/05		
Challenger MS	TC105	6		400	Electrical room	LE	24	0	120	0.1	0.01	Timer Power only	12/1/05		
Hage ES	TC107										0.00		No clocks installed - On Simplex Timer		
Zamorano	TC107	1	1	Admin	south faculty lounge below panel 6th section	6A	27	1	120	6.8	0.82	breezeway lights (hps) & timer	2/6/06		
Zamorano	TC107	2	1	Admin	south faculty lounge below panel 6th section	6A	29	1	120	2.5	0.30	short pole lights	2/6/06		
Zamorano	TC107	2		Admin	south faculty lounge below panel 6th section	6A	31		208	6.2	1.29	higher street lights, east	2/6/06		
Zamorano	TC107	3	1	4th Grade	electrical room east end by custodian room	20	17	1	120	0	0.00	timer contactors	2/6/06		
Zamorano	TC107	3		4th Grade	electrical room east end by custodian room	20	4		120	2.2	0.26	soffet lights	2/6/06		
Zamorano	TC107	3		4th Grade	electrical room east end by custodian room	20	10		120	5	0.60	post lights	2/6/06		
Zamorano	TC107	3		4th Grade	electrical room east end by custodian room	20	12		120	13.2	1.58	parking lot poles & wallpacks	2/6/06		
Zamorano	TC107	3		4th Grade	electrical room east end by custodian room	20	15		120	10.3	1.24	parking lot poles & wallpacks	2/6/06		
Zamorano	TC107	4	1	Bungalows	classroom #35	TCP	4	1	20	5	0.10	2-250w hps flood lights	2/6/06		
Walker ES	TC112	1	1	Admin Office	Electrical room SW corner	C1	28	1	120		0.00	timer control circuit	1/20/06		
Walker ES	TC112	1		Admin Office	Electrical room SW corner	C	7		277	13	3.60	pole lights inside school	1/20/06		
Walker ES	TC112	1		Admin Office	Electrical room SW corner	C	9		277	12.7	3.52	outside lights (hps)	1/20/06		
Walker ES	TC112	1		Admin Office	Electrical room SW corner	C	10		277	0.7	0.19	bldg night lights	1/20/06		
Walker ES	TC112	1		Admin Office	Electrical room SW corner	C	12		277	1.5	0.42	bldg wallpacks	1/20/06		
Walker ES	TC112	2	1	multi purpose	electrical room in nw corner	B	9	1	277	1	0.28	bldg night lights	1/20/06		
Walker ES	TC112	2		multi purpose	electrical room in nw corner	B	11		277	3.6	1.00	bldg wallpacks	1/20/06		
Walker ES	TC112	3	1	100	electrical room in sw corner	A	11	1	277	2.6	0.72	bldg wallpacks	1/20/06	bldgs 100, 300, 400 have special switched flood lights only used during special events	
Walker ES	TC112	4	1	200	Electrical Room in SE corner	A	7	1	277	1	0.28	bldg wallpacks	1/20/06		
Walker ES	TC112	4		200	Electrical Room in SE corner	A	11		277	2	0.55	bldg night lights	1/20/06		
Walker ES	TC112	5	1	300	Electrical Room in SE corner	A	9	1	277	0.5	0.14	bldg wallpacks	1/20/06		
Walker ES	TC112	5		300	Electrical Room in SE corner	A	11		277	2	0.55	bldg night lights	1/20/06		
Walker ES	TC112	6	1	400	electrical room in ne corner	A	9	1	277	1	0.28	bldg wallpacks	1/20/06		
Walker ES	TC112	6		400	electrical room in ne corner	A	11		277	1.8	0.50	bldg night lights	1/20/06		
Walker ES	TC112	7	1	bungalow RR	inside gear locker on wall by switches	A	1B	1	120	2.9	0.35	bldg compact fluorescents and floodlights	1/20/06		
Walker ES	TC112	8	1	B3	inside classroom above wall switches by door	P1	2	1	120	6.3	0.76	bldg compact fluorescents and floodlights	1/20/06		
Mira Mesa HS	TC110	1	1	100	Front office hallway near electrical room	LP1A	18	1	277	0	0.00	Timer power & control circuit to 8 pole contactor	11/18/05		
Mira Mesa HS	TC110	1		100	Front office hallway near electrical room	LP1A	2		277	1.5	0.42	Bldg exterior lights	11/18/05		
Mira Mesa HS	TC110	1		100	Front office hallway near electrical room	LP1A	4		277	2.7	0.75	Bldg exterior lights	11/18/05		
Mira Mesa HS	TC110	1		100	Front office hallway near electrical room	LP1A	6		277	12.6	3.49	Bldg exterior lights	11/18/05		
Mira Mesa HS	TC110	1		100	Front office hallway near electrical room	LP1A	10		277	2.9	0.80	Front parking pole lights	11/18/05		
Mira Mesa HS	TC110	1		100	Front office hallway near electrical room	LP1A	12		277	4	1.11	Front parking pole lights	11/18/05		

Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location					Time Clocks					Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled			
Mira Mesa HS	TC110	1	100	Front office hallway near electrical room	LP1A	14	277	2	0.55	Front parking pole lights	11/18/05			
Mira Mesa HS	TC110	1	100	Front office hallway near electrical room	LP1A	16	277	2.5	0.69	Front parking pole lights	11/18/05			
Mira Mesa HS	TC110	2	1	100	Electrical room w roof access	PP1A	35	1	120	12.0	1.55	HPS Flood lights on roof	11/18/05	
Mira Mesa HS	TC110	3	1	200	Electrical room B by room 213	LP2A	29	1	277	0	0.00	Contactor coil power (480v)	11/18/05	
Mira Mesa HS	TC110	3	200	Electrical room B by room 213	LP2A	31	480	0	0.00	Timer power & control power	11/18/05			
Mira Mesa HS	TC110	3	200	Electrical room B by room 213	LP2A	30	277	2	0.55	post lights, north side	11/18/05			
Mira Mesa HS	TC110	3	200	Electrical room B by room 213	LP2A	32	277	3.4	0.94	post lights, west side	11/18/05			
Mira Mesa HS	TC110	3	200	Electrical room B by room 213	LP2A	38	277	2.8	0.78	post lights, east side & bldg lights	11/18/05			
Mira Mesa HS	TC110	3	200	Electrical room B by room 213	LP2A	40	277	2.3	0.64	post lights, south side & bldg lights	11/18/05			
Mira Mesa HS	TC110	4	1	200	Electrical room A by room 218	PP2P	35	1	120	7.2	0.86	HPS roof floods	11/18/05	
Mira Mesa HS	TC110	4	200	Electrical room A by room 218	PP2P	42	120	0	0.00	Timer power, control circuit & contactor	11/18/05			
Mira Mesa HS	TC110	4	200	Electrical room A by room 218	LP2B	26	277	9.3	2.58	parking lot lights, north	11/18/05	One 3 pole 120 volt coil installed.		
Mira Mesa HS	TC110	4	200	Electrical room A by room 218	LP2B	28	277	9.5	2.63	parking lot lights, north	11/18/05			
Mira Mesa HS	TC110	4	200	Electrical room A by room 218	LP2B	30	277	2.3	0.64	parking lot lights, north	11/18/05			
Mira Mesa HS	TC110	5	1	300	Data Hub / Phone room in room 308	LP3A	26	1	277	2.2	0.61	Timer, contactor & exterior lights	11/18/05	
Mira Mesa HS	TC110	5	300	Data Hub / Phone room in room 308	LP3A	28	277	2.3	0.64	post lights, north side	11/18/05			
Mira Mesa HS	TC110	6	1	300	Data Hub / Phone room in room 308	LP3A	14	1	277	2.3	0.64	north patio lights	11/18/05	
Mira Mesa HS	TC110	6	300	Data Hub / Phone room in room 308	LP3A	16	277	2	0.55	north patio lights	11/18/05			
Mira Mesa HS	TC110	7	1	300	Timer in water heater room panel in data / hub room	PP3A	29	1	120	10.1	1.21	roof flood lights (400w HPS)	11/18/05	
Mira Mesa HS	TC110	8	1	400	Room 414, tool room	LP3B	10	1	277	1.5	0.42	Patio lights (HPS canopy lights)	11/18/05	
Mira Mesa HS	TC110	9	1	400	Room 414 classroom	LP4B	21	1	277	0	0.00	Timer power & control to 480v contactor	11/18/05	
Mira Mesa HS	TC110	9	400	Room 414 classroom	LP4B	19	480	1.8	0.86	480 v contactor & exterior lights	11/18/05			
Mira Mesa HS	TC110	9	400	Room 414 classroom	LP4B	20	277	3.1	0.86	post lights	11/18/05			
Mira Mesa HS	TC110	9	400	Room 414 classroom	LP4B	22	277	2	0.55	post lights	11/18/05			
Mira Mesa HS	TC110	10	1	400	Mechanical room	PP4BA	7	1	120	6.8	0.82	southeast roof floods bldg 400	11/18/05	
Mira Mesa HS	TC110	11	1	400	Mechanical room	LP4A	34	1	277	3.7	1.02	Lunch courtyard lights	11/18/05	
Mira Mesa HS	TC110	12	1	400	Mechanical room	LP4A	16	1	277	4.1	1.14	Timer power, wall packs	11/18/05	
Mira Mesa HS	TC110	12	400	Mechanical room	LP4A	35	277	1.5	0.42	exterior lights	11/18/05			
Mira Mesa HS	TC110	12	400	Mechanical room	LP4A	37	277	5.9	1.63	exterior lights	11/18/05			
Mira Mesa HS	TC110	13	1	500 (Gym)	Closet in boys locker room area	LP5A	32	1	277	4	1.11	post lights	11/18/05	
Mira Mesa HS	TC110	13	500 (Gym)	Closet in boys locker room area	LP5A	34	480	3	1.44	post lights	11/18/05			
Mira Mesa HS	TC110	13	500 (Gym)	Closet in boys locker room area	LP5A	36	277	4.1	1.14	post lights	11/18/05			
Mira Mesa HS	TC110	14	1	500 (Gym)	Custodian closet in mens restroom	PP5A	11	1	120	7.2	0.86	HPS roof floods	11/18/05	
Mira Mesa HS	TC110	15	1	B portables	In classroom B29 north end	B40	6	1	120	5.7	0.68	HPS roof floods (5)	11/18/05	
Scripps Ranch HS	TC119	1	1	400	406	4L	17	1	277	9.4	2.60	Hallways and wall packs	8/26/05	
Scripps Ranch HS	TC119	2	1	400	413	ALE	5	1	277	0.7	0.19	Lights between rest rooms	8/26/05	
Scripps Ranch HS	TC119	3	1	400	442	4LD	8	1	277	0.7	0.19	1 each 150w fixture	8/26/05	
Scripps Ranch HS	TC119	4	1	400	442	4LD	2	1	277	21.8	6.04	Parking lot lights	8/26/05	
Scripps Ranch HS	TC119	4	400	442	4LD	4	4	277	21.7	6.01	Parking lot lights	8/26/05		
Scripps Ranch HS	TC119	4	400	442	4LD	6	1	277	5.7	1.58	Exterior Lighting	8/26/05		
Scripps Ranch HS	TC119	5	1	100	Interior roof access closet	DLA	19	1	277	9.2	2.55	Ext wall packs	8/26/05	
Scripps Ranch HS	TC119	6	1	100	Between rm 123-124	IL	9	1	277	4.2	1.16	Exterior Lighting	8/26/05	
Scripps Ranch HS	TC119	6	100	Between rm 123-124	IL	27	277	5.5	1.52	Parking lot lights	8/26/05			
Scripps Ranch HS	TC119	6	100	Between rm 123-124	IL	29	277	11.8	3.27	Parking lot lights	8/26/05			
Scripps Ranch HS	TC119	7	1	200	Electrical room	HA	4	1	277	9	2.49	Exterior Lighting	8/26/05	
Scripps Ranch HS	TC119	8	1	200	219 Electric Room	2L	11	1	277	4.3	1.19	Exterior Lighting	8/26/05	
Scripps Ranch HS	TC119	9	1	200	Interior in front of Rm 214	2LA	17	1	277	2	0.55	Lights over service door	8/26/05	
Scripps Ranch HS	TC119	10	1	200	Interior Locker Room/RR	2LA	13	1	277	6.1	1.69	Exterior Lighting	8/26/05	
Scripps Ranch HS	TC119	11	1	300	Gym Elec Room	3LA	14	1	277	5.6	1.55	Ext lights, walkways	8/26/05	
Scripps Ranch HS	TC119	11	300	Gym Elec Room	3LA	19	277	6.7	1.86	Ext lights, walkways	8/26/05			
Scripps Ranch HS	TC119	11	300	Gym Elec Room	3LA	21	277	6.7	1.86	Ext lights, walkways	8/26/05			
Scripps Ranch HS	TC119	12	1	600	Ext Elec Room	HB	2	1	277	2.1	0.58	Ext wall packs, walkways	8/26/05	
Scripps Ranch HS	TC119	13	1	600	Int Room #95 A	4LC	13	1	277	2.6	0.72	Ext wall packs, walkways	8/26/05	
Scripps Ranch HS	TC119	14	1	400	Inside Library Women RR	4LA	11	1	277	4.2	1.16	Walkways	8/26/05	
Scripps Ranch HS	TC119	15	1	300	Boy's Locker Rm #367	3LB	10	1	277	3.8	1.05	Wall packs	8/26/05	
Scripps Ranch HS	TC119	15	300	Boy's Locker Rm #367	3LB	12	277	5	1.39	Parking lot lights	8/26/05			
Scripps Ranch HS	TC119	15	300	Boy's Locker Rm #367	3LB	18	277	2.8	0.78	Wall packs	8/26/05			
Scripps Ranch HS	TC119	16	1	700	Electrical Room	HA	4	1	277	2.8	0.78	Exterior Walkway, HPS Wallpacks	8/26/05	
La Jolla ES	TC121	1	1	Room 2	On wall inside classroom adjacent to panel C	C	6	1	120	2.5	0.30	Exterior Floodlights	1/12/06	
La Jolla ES	TC121	2	1	B5 Music	inside scrapcan above panel B5 inside classroom	B5	7	1	120	4.5	0.54	Exterior Floodlights	1/12/06	
La Jolla ES	TC121	3	1	Room 8	on wall adjacent to panel B	B40	23	1	120	2.5	0.30	Exterior Floodlights	1/12/06	
La Jolla ES	TC121	4	1	08-08	adjacent to panel A in the RTA room	A	14	1	120	2.5	0.30	Exterior Floodlights	1/12/06	
La Jolla ES	TC121	5	1	Library	electrical room on roof of bldg by panel L	L	12	1	120	3	0.36	Exterior bldg lights	1/12/06	
La Jolla ES	TC121	6	1	K3	inside classroom K3 above panel	K3	13	1	120	4.5	0.54	Exterior Floodlights	1/12/06	
La Jolla ES	TC121	7	1	Auditorium	back by panel EA	EA	8	1	120	5.7	0.68	Exterior wallpacks	1/12/06	
Mission Bay HS	TC127	1	1	Main Office	Counselor's Office room behind Panel 1LA	1LA	22	1	120	14.2	1.70	1 parking lot pole light and building flood light	10/19/05	

Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location				Time Clocks							Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled				
Mission Bay HS	TC127	2	1	Free standing	Stand up switch gear by bus loading area	4371	11	1	120	0.1	0.01	Timer Power only	10/19/05		
Mission Bay HS	TC127	2		Free standing	Stand up switch gear by bus loading area	4371	3		208	5.3	1.10	Street lighting on private road (Lee St.)	10/19/05		
Mission Bay HS	TC127	2		Free standing	Stand up switch gear by bus loading area	4371	5		208	5	1.04	Street lighting on private road (Lee St.)	10/19/05		
Mission Bay HS	TC127	2		Free standing	Stand up switch gear by bus loading area	4371	7		208	9.3	1.93	Street lighting on private road (Lee St.)	10/19/05		
Mission Bay HS	TC127	2		Free standing	Stand up switch gear by bus loading area	4371	9		208	9.1	1.89	Street lighting on private road (Lee St.)	10/19/05		
Mission Bay HS	TC127	2		Free standing	Stand up switch gear by bus loading area	4371	6		208	6.7	1.39	Street lighting on private road (Lee St.)	10/19/05		
Mission Bay HS	TC127	2		Free standing	Stand up switch gear by bus loading area	4371	8		208	6.7	1.39	Street lighting on private road (Lee St.)	10/19/05		
Mission Bay HS	TC127	3	1	240				0	0	0	0.00			Bldg 240 row lights haven't worked for 2 years, power problem has never been resolved.	
Kearny HS	TC135	1	1	1000	Custodian Room by Restrooms (panel CCK)	K	11	1	120	0	0.00	Timer Power only	11/1/05		
Kearny HS	TC135	1		1000	Custodian Room by Restrooms (panel CCK)	K	10	0	120	8.4	1.01	Roofed Shelter LPS floods	11/1/05		
Kearny HS	TC135	1		1000	Custodian Room by Restrooms (panel CCK)	K	2.4		208	21.7	4.51	1 35' parking lot pole lights w/ LPS lights	11/1/05		
Kearny HS	TC135	1		1000	Custodian Room by Restrooms (panel CCK)	K	6.8		208	16	3.33	2 35' parking lot pole lights w/ LPS lights	11/1/05		
Kearny HS	TC135	2	1	1000	Supply Room #4 (panel CCJ)	J	24	1	120	10.3	1.24	Wall packs, South & West Security Lights	11/1/05		
Kearny HS	TC135	3	1	1000	Room 1001 back wall to the left	D	30	1	120	0	0.00	Timer Power only	11/1/05		
Kearny HS	TC135	3		1000	Room 1001 back wall to the left	D	32		120	13.8	1.67	Fuchsia Lights Exterior	11/1/05		
Kearny HS	TC135	3		1000	Room 1001 back wall to the left	D	34		120	8.2	0.98	2 Wallpacks (HPS) & canopy fluorescents	11/1/05		
Kearny HS	TC135	3		1000	Room 1001 back wall to the left	D	36		120	8.5	1.02	canopy fluorescents	11/1/05		
Kearny HS	TC135	4	1	Admin	Transformer Room #5	1R	2	1	120	0	0.00	Timer Power only	11/1/05		
Kearny HS	TC135	4		Admin	Transformer Room #5	1R	4.6		208	12	2.50	Parking lot pole lights south	11/1/05		
Kearny HS	TC135	4		Admin	Transformer Room #5	1R	8.10		208	12	2.50	Parking lot pole lights north	11/1/05		
Alcott ES	TC140	1	1	Library	electrical & data closet	G	32	1	120	2.2	0.26	exterior lights on the bldg	1/24/06	4 key switch locations inside & 2 outside, new timer will eventually. These control passageway lights.	
Madison HS	TC146	1		Gym	Equipment room of the Foyer	MM	16	1	120	4.2	0.50	HPS flood lights on gym roof (east & west)	12/1/05	Parking lot lights on norths end are for events only and are never turned on unless there is a special event going on.	
Madison HS	TC146	2	1	400	401B network room east end	G	28	1	120	2.1	0.25	walkway lights	12/1/05	Parking lot lights on norths end are for events only and are never turned on unless there is a special event going on.	
Madison HS	TC146	2		400	401B network room east end	G	30		120	6.4	0.77	parking lot lights (staff)	12/1/05	Parking lot lights on norths end are for events only and are never turned on unless there is a special event going on.	
Madison HS	TC146	3	1	Library	Room 1003B Tech room off room 1004 (media room)	PTL	32	1	120	2.8	0.34	exterior bldg lights	12/1/05	Parking lot lights on norths end are for events only and are never turned on unless there is a special event going on.	
Clairmont HS	TC141	1	1	900 (Library)	Electrical Room	900	19	1	120	6.8	0.82	Wall lights (interior phototoll)	11/28/05		
Clairmont HS	TC141	1		900 (Library)	Electrical Room	900	29		120	10.8	1.30	Wall packs on bldg 900	11/28/05		
Clairmont HS	TC141	2	1	500	Penthouse panel P in ticket booth	R	23	1	120	5.5	0.66	Roof floods on auditorium	11/28/05		
Clairmont HS	TC141	3	1	Kitchen	Kitchen wall (panel A)	A	5	1	120	2.6	0.31	Wall packs & canopy lights HPS	11/28/05		
Clairmont HS	TC141	3		Kitchen	Kitchen wall (panel A)	A	7		120	1	0.12	Wall pack HPS	11/28/05		
Clairmont HS	TC141	4	1	200	Classroom #213 back wall by panels	H1	42	1	120	5.4	0.65	Lunch shelter lights compact fluorescent & HID floods	11/28/05	wall packs on bldg, also #100, 200, 300, 400 bldgs.	
Clairmont HS	TC141	5	1	Admin	Wall by financial office (panel I)	I	1	1	120	4.8	0.58	exterior passageway lights	11/28/05		
Standley MS	TC154	1	1	Admin Office	electrical room #1 by nurses office	GL	2	1	277	2.3	0.64	exterior bldg night lights	1/24/06		
Standley MS	TC154	1		Admin Office	electrical room #1 by nurses office	GL	4		277	3.04	0.84	exterior bldg night lights	1/24/06		
Standley MS	TC154	2	1	100	electrical room #2 by faculty dining	FL	9	1	277	4.4	1.22	lunch court lights & bldg lights	1/24/06		
Standley MS	TC154	2		100	electrical room #2 by faculty dining	FL	11		277	1.8	0.50	bldg night lights (exterior)	1/24/06		
Standley MS	TC154	3	1	100	electrical room #2 by faculty dining	FPA	36	1	120	3.5	0.42	roof flood lights for parking lot	1/24/06		
Standley MS	TC154	4	1	200 (Gym)	electrical room #3 by activity room	EL	15	1	277	0.8	0.22	exterior bldg lights	1/24/06		
Standley MS	TC154	4		200 (Gym)	electrical room #3 by activity room	EL	17		277	1.2	0.33	exterior bldg lights	1/24/06		
Standley MS	TC154	5	1	300	electrical room #4 by classroom 303	DL	23	1	277	2.2	0.61	exterior bldg lights	1/24/06		
Standley MS	TC154	5		300	electrical room #4 by classroom 303	DL	25		277	2.44	0.68	exterior bldg lights	1/24/06		
Standley MS	TC154	6	1	400	room 403, scene shop on wall in hallway	CL	2	1	277	2.3	0.64	exterior bldg lights	1/24/06		
Standley MS	TC154	6		400	room 403, scene shop on wall in hallway	CL	4		277	1	0.28	exterior bldg lights	1/24/06		
Standley MS	TC154	7	1	500	electrical room #7 by classroom503	BLA	19	1	277	2.5	0.69	exterior bldg lights	1/24/06		
Standley MS	TC154	7		500	electrical room #7 by classroom503	BLA	23		277	1.3	0.36	exterior bldg lights	1/24/06		
Standley MS	TC154	8	1	600	electrical room #8 by classroom #608	HLA	13	1	277	2.4	0.66	exterior bldg lights	1/24/06		
Standley MS	TC154	8		600	electrical room #8 by classroom #608	HLA	15		277	1.8	0.50	exterior bldg lights	1/24/06		
Standley MS	TC154	9	1	700	electrical room #9 by computerlab 2	ALA	4	1	277	2.4	0.66	exterior bldg lights	1/24/06		
Standley MS	TC154	9		700	electrical room #9 by computerlab 2	ALA	6		277	1.8	0.50	exterior bldg lights	1/24/06		
University City HS	TC155	1	1	200	Electrical Room by Kitchen	A	2	1	120	0	0.00	Timer Power only	11/22/05		
University City HS	TC155	1		200	Electrical Room by Kitchen	2LB	10		277	0.71	0.19	Food service shed	11/22/05		
University City HS	TC155	1		200	Electrical Room by Kitchen	2LB	15		277	5.1	1.41	6 outside lights	11/22/05		
University City HS	TC155	1		200	Electrical Room by Kitchen	2LB	21		277	4.7	1.30	6 outside lights	11/22/05		



Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location				Time Clocks							Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled				
University City HS	TC155	2	1	200	Electrical Room by Kitchen	A	2	1	120	0	0.00	Timer Power only	11/22/05		
University City HS	TC155	2		200	Electrical Room by Kitchen	2LC	22		277	0.4	0.11	4 lights outside shops	11/22/05		
University City HS	TC155	2		200	Electrical Room by Kitchen	2LC	24		277	1.2	0.33	exterior night lights	11/22/05		
University City HS	TC155	3	1	200	Room 216 by Kitchen	A	34	1	120	0.6	0.07	entry night lights	11/22/05		
University City HS	TC155	4	1	Supply Room	Room 504, Main Elec Room	5LPG	5	1	120	10.4	1.25	exterior bldg lights	11/22/05		
University City HS	TC155	5	1	200	223, Lumber Storage Room	2PD	29	1	120	0.8	0.10	entry lights for 227, 230, 231 and art patio	11/22/05		
University City HS	TC155	6	1	Gym	Snack Bar, Elec room south end	3LPB	1	1	120	5.2	0.62	Timer Power & locker room entry	11/22/05		
University City HS	TC155	6		Gym	Snack Bar, Elec room south end	3LPB	2		120	3.2	0.38	Front door entry, canopy	11/22/05		
University City HS	TC155	7	1	Gym	Snack Bar, Elec room north end	3LA	13	1	277	2	0.55	night lights (wallpack)	11/22/05		
University City HS	TC155	7		Gym	Snack Bar, Elec room north end	3LA	20		277	3.2	0.89	exterior bldg wallpacks	11/22/05		
University City HS	TC155	7		Gym	south & east bldg lights	3LA	11		277				11/22/05	Clocks on breakers only. Need 3 pole contactor.	
University City HS	TC155	7		Gym	north & west bldg lights	3LA	12		277				11/22/05	Clocks on breakers only. Need 3 pole contactor.	
University City HS	TC155	7		Gym	south entry	3LA	14		277				11/22/05	Clocks on breakers only. Need 3 pole contactor.	
University City HS	TC155	8	1	B19	Classroom, portable type NE corner	A	8B	1	120	4.5	0.54	Exterior bldg lights on portables	11/22/05	Clock never changed out 120v, in classroom	
University City HS	TC155	9	1	200	Room 213, rear storage & electrical room	2PA	3	1	120	5.2	0.62	Exterior entry lights west end of 200 & auditorium foyer.	11/22/05		
University City HS	TC155	10	1	B7	Classroom, timer under wall switches	A	2	1	120	1.5	0.18	Exterior security wallpack and compact fluorescent	11/22/05	No over ride switch due to student access to clock location.	
University City HS	TC155	11	1	B15	Classroom, timer under wall switches	A	2	1	120	1.4	0.17	Exterior security wallpack and compact fluorescent	11/22/05	Clock never changed out, 120v in classroom	
University City HS	TC155	12	1	400	Electrical room #5	4PB	2	1	120	0.6	0.07	West entry lights	11/22/05		
University City HS	TC155	13	1	400	Electrical room #5	4LB	22	1	277	3.7	1.02	Outside lights media mini theatre	11/22/05	Timer not replaced yet (277v, 3 pole). Need 4 pole contactor & one clock.	
University City HS	TC155	14	1	400	Electrical room #5	4LB	14	1	277	15.1	4.18	Parking lot pole lights	11/22/05	Timer not replaced yet (277v, 3 pole). Need 4 pole contactor & one clock.	
University City HS	TC155	14		400	Electrical room #5	4LB	16		277	10.9	3.02	Parking lot pole lights	11/22/05	Timer not replaced yet (277v, 3 pole). Need 4 pole contactor & one clock.	
University City HS	TC155	14		400	Electrical room #5	4LB	18		277	14.4	3.99	Parking lot pole lights	11/22/05	Timer not replaced yet (277v, 3 pole). Need 4 pole contactor & one clock.	
University City HS	TC155	15	1	400	Electrical room #6	4PD	4	1	120	0.5	0.06	East entry lights	11/22/05		
University City HS	TC155	16	1	400	Electrical room #6	4LC	33	1	277	2.7	0.75	night lights exterior	11/22/05		
University City HS	TC155	16		400	Electrical room #6	4LC	35		277	4	1.11	night lights exterior	11/22/05		
University City HS	TC155	17	1	600	Electrical room 606	L	6	1	277	1.6	0.44	Exterior bldg lights	11/22/05	Clock never changed out, 277v in classroom. 277v clock not changed out yet.	
University City HS	TC155	18	1	Main Office	Electrical room #1	ILA	4	1	277	1.6	0.44	Outside lights	11/22/05	277v clocks in main office never changed out. Need 3 or 4 pole contactor & enclosure.	
University City HS	TC155	18		Main Office	Electrical room #1	ILA	6		277	4.4	1.22	Outside lights	11/22/05	277v clocks in main office never changed out. Need 3 or 4 pole contactor & enclosure.	
University City HS	TC155	19	1	Main Office	Electrical room #1	ILA	13	1	277	0	0.00	Parking lot lights / front of school	11/22/05	277v clocks in main office never changed out. Need 3 or 4 pole contactor & enclosure.	
University City HS	TC155	19		Main Office	Electrical room #1	ILA	15		277	5	1.39	Parking lot lights / front of school	11/22/05	277v clocks in main office never changed out. Need 3 or 4 pole contactor & enclosure.	
University City HS	TC155	19		Main Office	Electrical room #1	ILA	17		277	9.3	2.58	Parking lot lights / front of school	11/22/05	277v clocks in main office never changed out. Need 3 or 4 pole contactor & enclosure.	
Point Loma HS	TC019	1	1	Office	courtyard electrical closet	PB	39	1	120	0	0.00	clock & contactor power only	1/19/06		
Point Loma HS	TC019	1		Office	courtyard electrical closet	B	27		277	1.6	0.44	exterior bldg lights	1/19/06		
Point Loma HS	TC019	1		Office	courtyard electrical closet	B	19		277	2.2	0.61	parking lot light poles	1/19/06		
Point Loma HS	TC019	1		Office	courtyard electrical closet	B	21		277	4.4	1.22	parking lot light poles	1/19/06		
Point Loma HS	TC019	1		Office	courtyard electrical closet	B	23		277	6.9	1.91	parking lot light poles	1/19/06		
Point Loma HS	TC019	2	1	200	copy room electrical cupboard	IA	8	1	277	2.4	0.66	night lights	1/19/06		
Point Loma HS	TC019	2		200	copy room electrical cupboard	IA	10		277	3.6	1.00	walkway lights	1/19/06		
Point Loma HS	TC019	3	1	800	wall inside media production room	PICB	25	1	120	0	0.00	timer power only	1/19/06		
Point Loma HS	TC019	3		800	wall inside media production room	LIC	17		277	9.2	2.55	pole lighting	1/19/06		
Point Loma HS	TC019	4	1	800	wall inside media production room	PICB	25	1	120	2.2	0.26	bldg lights	1/19/06		
Point Loma HS	TC019	4		800	wall inside media production room	LIC	16, 18		277	1.5	0.42	night lights	1/19/06		
Point Loma HS	TC019	5	1	500	Paint storage room??	LDL	1	1	277	2	0.55	exterior bldg lights	1/19/06		
Point Loma HS	TC019	6	1	500	Paint storage room??	LDL	2	1	277	2.3	0.64	pole lighting	1/19/06		
Point Loma HS	TC019	6		500	Paint storage room??	LDL	3		277	1	0.28	night lights	1/19/06		
Point Loma HS	TC019	7	1	700	Electrical room	L1	9	1	277	2.7	0.75	exterior bldg lights	1/19/06		
Point Loma HS	TC019	7		700	Electrical room	L1	11		277	0.7	0.19	exterior night lights	1/19/06		
Garfield HS	TC038		1								0.00			No timers installed. School has an existing lighting controller panel.	
Crawford HS	TC064	1	1	Admin Office	custodial room west side by faculty mens restroom	7LB	1	1	120	0	0.00	timer power only	1/19/06		
Crawford HS	TC064	1		Admin Office	custodial room west side by faculty mens restroom	7LB	16A		208	5.3	1.10	parking lot lights (visitor, staff)	1/19/06		
Crawford HS	TC064	1		Admin Office	custodial room west side by faculty mens restroom	7LB	16B		208	5.3	1.10	parking lot lights (visitor, staff)	1/19/06		
Crawford HS	TC064	1		Admin Office	custodial room west side by faculty mens restroom	7LB	16C		208	5.3	1.10	parking lot lights (visitor, staff)	1/19/06		
Crawford HS	TC064	2	1	Admin Office	custodial room west side by faculty mens restroom	IILA	28	1	120	5.2	0.62	passageway lights	1/19/06		
Crawford HS	TC064	2		Admin Office	custodial room west side by faculty mens restroom	IILA	30		120	3	0.36	timer power & passageway lights	1/19/06		
Crawford HS	TC064	3	1	700	inside custodian room, panel in ticket booth	8LB	5	1	120	5.5	0.66	passageway lights	1/19/06		

Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location				Time Clocks						Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled			
Crawford HS	TC064	4	1	700	inside custodian room, panel in room 703	8LC	12	1	120	6.3	0.76	passageway lights	1/19/06	
Crawford HS	TC064	4		700	inside custodian room, panel in room 703	8LC	22		120	3	0.36	passageway lights	1/19/06	
Crawford HS	TC064	5	1	800	custodian room by 703, panel near room 813	A	10	1	120	3.2	0.38	passageway lights	1/19/06	bidg has 2 key switches at the top of the 2 stairs that control passageway lights
Crawford HS	TC064	5		800	custodian room by 703, panel near room 813	A	12		120	3.1	0.37	passageway lights	1/19/06	
Crawford HS	TC064	6	1	600	custodian room west end, panel 6LA in room 608	6LA	20	1	120	8.4	1.01	passageway lights	1/19/06	
Crawford HS	TC064	6		600	custodian room west end, panel 6LA in room 608	6LA	30		120	1	0.12	parking lot & pole lights	1/19/06	
Crawford HS	TC064	7	1	600	custodian room, panel 6LA in room 608	6LB	16	1	120	8.3	1.00	passageway lights	1/19/06	
Crawford HS	TC064	7		600	custodian room, panel 6LA in room 608	6LB	24		120	4.5	0.54	pole lighting	1/19/06	
Crawford HS	TC064	8	1	500	custodian room NE, panel in room 510	5LB	24	1	120	0.5	0.06	one passageway light	1/19/06	
Crawford HS	TC064	9	1	400	inside room 407	4LB	31	1	120	7.8	0.91	passageway lights	1/19/06	
Crawford HS	TC064	10	1	400	custodian room	4LA	4	1	120	4.7	0.56	passageway lights	1/19/06	
Crawford HS	TC064	10		400	custodian room	4LA	2		120	3	0.36	passageway lights	1/19/06	
Crawford HS	TC064	11	1	200	transformer room by room 201	2LA	17	1	120	3.6	0.43	passageway lights	1/19/06	
Crawford HS	TC064	12	1	200	custodian room south end	2LA	11	1	120	3.6	0.43	passageway lights	1/19/06	
Crawford HS	TC064	12		200	custodian room south end	2LA	12		120	2.2	0.26	passageway lights	1/19/06	
Crawford HS	TC064	13	1	300	inside library backroom by panel 3LA	3LA	7	1	120	6.5	0.78	passageway lights	1/19/06	
Crawford HS	TC064	13		300	inside library backroom by panel 3LA	3LA	9		120	6.5	0.78	passageway lights	1/19/06	
Crawford HS	TC064	14	1	100	room 101	1LA	25	1	120	3.6	0.43	passageway lights	1/19/06	
Crawford HS	TC064	14		100	room 101	1LA	26		120	4.5	0.54	passageway lights	1/19/06	
Crawford HS	TC064	15	1	700	room 701	8LD	16	1	120	8	0.96	HPS flood lights on passageway covering	1/19/06	
Crawford HS	TC064	16	1	Gym	transformer room	9F	2	1	120	7	0.84	HPS floods on front of gym passageway	1/19/06	
Crawford HS	TC064	17	1	Gym	girls locker room	9LC	13	1	120	2.8	0.34	passageway lights	1/19/06	Bldg has 2 key switches at back doors for rear floods, meaning 4 timers could be installed in the future.
Crawford HS	TC064	17		Gym	girls locker room	9LC	14		120	2.9	0.35	passageway lights	1/19/06	
Gompers MS	TC039	1		Plant	supply room	14L	30	1	120	2.6	0.31	exterior lights	2/17/06	Jim H. was unable to locate the panel for the parking lot pole light. Library backroom was inaccessible to get to panels, completely blocked off with junk. No one would move the junk for him to access. Panel not in switchgear B1 or in 500 bldg.
Gompers MS	TC039	1	1	Plant	supply room	14L	29		120		0.00	timer & contactor	2/17/06	
Gompers MS	TC039	1		Plant	supply room	14L	23		120	1.5	0.18	exterior night lights	2/17/06	
Gompers MS	TC039	1		Plant	supply room	14L	25		120	3.1	0.37	exterior corridor lights	2/17/06	
Gompers MS	TC039	1		Plant	supply room	14L	27		120	5.5	0.66	exterior bldg lights	2/17/06	
Gompers MS	TC039	2	1	600	free standing bldg	B1	A1	1	120	4.8	0.58	wallpacks on bldg 600	2/17/06	
Gompers MS	TC039	3	1	500	on parking lot pole light by room 52	?	19	1	120	3.5	0.42	40' parking lot pole light	2/17/06	
Gompers MS	TC039	3		500	on parking lot pole light by room 52	?	14		208	3.5	0.73	40' parking lot pole light	2/17/06	
Bell MS	TC073	1	1	PE	Supply room on wall by the door	1200	15	1	120	7.9	0.95	parking lot pole lights	3/1/06	
Bell MS	TC073	1		PE	Supply room on wall by the door	1200	17		208	7.9	1.64	parking lot pole lights	3/1/06	
Bell MS	TC073	2	1	PE	electrical room	12B	1	1	120	2.3	0.28	exterior bldg lights by boys locker room	3/1/06	
Bell MS	TC073	3	1	PE	electrical room	12A	1	1	120	3	0.36	passageway lights	3/1/06	
Bell MS	TC073	3		PE	electrical room	12A	3		120	3.1	0.37	passageway lights	3/1/06	
Bell MS	TC073	4	1	900	inside classroom 901, stage rear inside panel 9A	9A	1	1	120	3	0.36	passageway lights	3/1/06	
Bell MS	TC073	5	1	900	inside classroom 901, stage rear inside panel 9A	9A	3	1	120	2.7	0.32	passageway lights	3/1/06	
Bell MS	TC073	5		900	inside classroom 901, stage rear inside panel 9A	9A	5		120	2.5	0.30	passageway lights	3/1/06	
Bell MS	TC073	6	1	800	inside classroom 806 in hallway inside panel 10A	10A	1	1	120	2.1	0.25	passageway lights	3/1/06	
Bell MS	TC073	6		800	inside classroom 806 in hallway inside panel 10A	10A	3		120	2.4	0.29	passageway lights	3/1/06	
Bell MS	TC073	7	1	Admin	in breezeway between office & counseling in panel 8A	8A	1	1	120	3	0.36	passageway lights	3/1/06	
Bell MS	TC073	7		Admin	in breezeway between office & counseling in panel 8A	8A	3		120	2.7	0.32	passageway lights	3/1/06	
Bell MS	TC073	7		Admin	in breezeway between office & counseling in panel 8A	8A	5		120	2.5	0.30	passageway lights	3/1/06	
Bell MS	TC073	7		Admin	in breezeway between office & counseling in panel 8A	8A	7		120	2.5	0.30	passageway lights	3/1/06	
Bell MS	TC073	7		Admin	in breezeway between office & counseling in panel 8A	8A	9		120	2.4	0.29	passageway lights	3/1/06	
Bell MS	TC073	8	1	100	inside the EPU room on wall to the left	EPU	sec Circ	1	120	3.5	0.42	passageway & express lighting	3/1/06	
Bell MS	TC073	9	1	100	inside the electrical room	L1	22	1	120	3.8	0.46	soffit lights	3/1/06	
Bell MS	TC073	9		100	inside the electrical room	L1	28		208	9.7	2.02	north parking pole lights	3/1/06	
Bell MS	TC073	9		100	inside the electrical room	L1	30		208	9.7	2.02	passageway lights	3/1/06	
Bell MS	TC073	10	1	200	inside room 208 in panel 2B	2B	1	1	120	2.3	0.28	passageway lights	3/1/06	
Bell MS	TC073	10		200	inside room 208 in panel 2B	2B	3		120	2.4	0.29	passageway lights	3/1/06	

Appendix B. Time Clock Field Installation Report (continued)

Location										Time Clocks				Date Complete	Comments
School	ID #	Item	Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled	Date Complete	Comments		
Bell MS	TC073	11	1	300	inside room 308 in panel 3A	3A	1	120	2.3	0.28	passageway lights	3/1/06			
Bell MS	TC073	11		300	inside room 308 in panel 3A	3A	3	120	2.4	0.29	passageway lights	3/1/06			
Bell MS	TC073	12	1	400	inside room 401 in panel 4A	4A	1	120	2.4	0.29	passageway lights	3/1/06			
Bell MS	TC073	12		400	inside room 401 in panel 4A	4A	3	120	2.5	0.30	passageway lights	3/1/06			
Bell MS	TC073	13	1	500	inside room 500 inside panel 5A	5A	8	120	2.4	0.29	passageway lights	3/1/06			
Bell MS	TC073	14	1	700	inside electrical EPU room	EPU SEC OUT	1	120	3	0.36	passageway lights	3/1/06			
Bell MS	TC073	15	1	700	electrical room	L7	17	120	3	0.36	passageway lights	3/1/06			
Bell MS	TC073	16	1	600	inside room 603	6A	1	120	2.5	0.30	passageway lights	3/1/06			
Bell MS	TC073	16		600	inside room 603	6A	3	120	3.2	0.38	passageway lights	3/1/06			
Clark MS	TC045	1	1	100	electrical room #2 in the faculty lunch room	LPBL	21	277	8.9	2.47	parking lot light poles	2/23/06	three timers in library elec room are for interior lights, not exterior. Timers in 2nd floor elec room are for interior lights.		
Clark MS	TC045	1		100	electrical room #2 in the faculty lunch room	LPBL	23	277	9.4	2.60	parking lot light poles	2/23/06			
Clark MS	TC045	1		100	electrical room #2 in the faculty lunch room	LPBL	25	277	5.9	1.63	parking lot light poles	2/23/06			
Clark MS	TC045	1		100	electrical room #2 in the faculty lunch room	LPBL	29	277	16.1	4.46	exterior soffits	2/23/06			
Clark MS	TC045	2	1	200	outside electrical room west side of bldg	LPA2	15	277	10.5	2.91	exterior canopy lights	2/23/06			
Clark MS	TC045	2		200	outside electrical room west side of bldg	LPA2	17	277	9.3	2.58	exterior canopy lights	2/23/06			
Clark MS	TC045	3	1	200	electrical room inside boys restroom	LPA1	12	277	1.5	0.42	exterior bldg lights	2/23/06			
Clark MS	TC045	3		200	electrical room inside boys restroom	LPA1	13	277	2.5	0.69	exterior walkway lights	2/23/06			
Clark MS	TC045	4	1	300	electrical room #5 by room 301	LP1E	5	277	1.5	0.42	exterior walkway lights	2/23/06			
Clark MS	TC045	4		300	electrical room #5 by room 301	LP1E	11	277	1.8	0.50	exterior walkway lights	2/23/06			
Clark MS	TC045	5	1	400	southeast electrical room by room 403	LPC	8	277	4	1.11	north quad pole lights	2/23/06			
Clark MS	TC045	5		400	southeast electrical room by room 403	LPC	12	277	7.5	2.08	central quad pole lights	2/23/06			
Mann MS	TC069	1	1	500	Custodian Closet, 2nd Level North	C	3	120	3.2	0.38	Bridge lights & 1st floor corridors	1/3/06			
Memorial MS	TC034	1		100	hallway panel "PL" by classroom #105	PL	31	120	18	2.16	exterior wallpacks	2/27/06			
Memorial MS	TC034	1		100	hallway panel "PL" by classroom #105	PL	29	120	16.5	1.98	highlights, wallpacks	2/27/06			
Memorial MS	TC034	2	1	200	hallway across from room 204F (copy room)	PKA	2	120	16.8	2.02	exterior lights	2/27/06			
Memorial MS	TC034	2		200	hallway across from room 204F (copy room)	PKA	4	120	14.6	1.75	exterior night lights	2/27/06			
Memorial MS	TC034	2		200	hallway across from room 204F (copy room)	PKA	39	120	5.5	0.66	exterior lights	2/27/06			
Memorial MS	TC034	2		200	hallway across from room 204F (copy room)	PKA	41	120	1.5	0.18	exterior night lights	2/27/06			
Memorial MS	TC034	3	1	200	2nd floor hallway by classroom #259	PKB	33	120	9	1.08	exterior bldg lights	2/27/06			
Memorial MS	TC034	3		200	2nd floor hallway by classroom #259	PKB	35	120	8.8	1.06	exterior bldg lights	2/27/06			
Memorial MS	TC034	4	1	300	in back hallway by room 303B	PJ	7	120	15.8	1.90	exterior bldg lights	2/27/06			
Memorial MS	TC034	4		300	in back hallway by room 303B	PJ	9	120	14.7	1.76	exterior bldg lights	2/27/06			
Memorial MS	TC034	5	1	300	in back hallway by room 303B	PJ	41	120	4.5	0.54	exterior ramp lights	2/27/06			
Memorial MS	TC034	6	1	500	Heater room by classroom #514 & teacher workroom	C	19	120	3.8	0.46	exterior corridor lights	2/27/06			
Memorial MS	TC034	7	1	600	electrical room under stairs #1, south end	C	25	120	2.2	0.26	exterior night lights	2/27/06			
Memorial MS	TC034	7		600	electrical room under stairs #1, south end	C	27	120	2.4	0.29	exterior bldg lights	2/27/06			
Memorial MS	TC034	8	1	Cafeteria	on wall in cafeteria by panels	LN	3	120	5.6	0.67	lunch corridor lights	2/27/06			
Memorial MS	TC034	8		Cafeteria	on wall in cafeteria by panels	LM	7	120	2.3	0.28	rear entrance lights, kitchen	2/27/06			
Memorial MS	TC034	9	1	kitchen	on wall 7' high by door & fly fan	A	8A	120	3.2	0.38	outside flood light	2/27/06			
Pershing MS	TC084									0.00					
Kroc MS	TC144	1	1	500	heater room #2 off the supply room to the north	R	1	120	8	0.96	pole light with 2 fixtures	3/1/06			
Kroc MS	TC144	2	1	500	in storage room off on room 508	K	15	120	7.2	0.86	parking lot floods roof mounted	3/1/06			
Kroc MS	TC144	2		500	in storage room off on room 508	K	17	120	8.4	1.01	parking lot floods roof mounted	3/1/06			
Kroc MS	TC144	3	1	500	inside classroom by 511 on wall by north door	K	9	120	1.6	0.19	1 - 150w HPS wallpack flood	3/1/06			
Kroc MS	TC144	4	1	100	inside classroom 101 on wall by east door	A	15	120	1.6	0.19	1 - 150w HPS wallpack flood	3/1/06			
Kroc MS	TC144	5	1	300	inside classroom 311	F	2	120	1.6	0.19	1 - 150w HPS wallpack flood	3/1/06			
Kroc MS	TC144	6	1	900	inside electrical room 909	K2	19	120	5.8	0.70	exterior walkway lights	3/1/06			
Kroc MS	TC144	7	1	400	inside classroom 419 on wall by door	H	8	120	1.6	0.19	1 - 150w HPS wallpack flood	3/1/06			
Clay ES		1	1	Admin	Supply room above panel C	C	7	120	8.2	0.98	wallpacks front and side	2/3/06			
Clay ES		1		Admin	Supply room above panel C	C	9	120	6.5	0.78	timer power and parking pole lights	2/3/06			
Clay ES		2	1	2	Heater room #1 by restrooms	A	7	120	6	0.72	hps wallpacks	2/3/06			
Clay ES		2		2	Heater room #1 by restrooms	A	8	120	1	0.12	timer power & comp fluorescent	2/3/06			
Clay ES		3	1	Cafeteria	Kitchen hall by rear door	E	13	120	3.5	0.42	exterior hps wallpacks & timer	2/3/06			
Clay ES		3		Cafeteria	Kitchen hall by rear door	E	15	120	4.9	0.59	exterior hps wallpacks	2/3/06			
Clay ES		4	1	B2	inside classroom B2	B02	9	120	3	0.36	exterior flood lights (hps)	2/3/06	Classroom B-10 floodlights on photocell only. Removed on photocell controls from all others.		



Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location				Time Clocks						Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled			
Clay ES		5	1	B6	inside classroom B6	B06	2	1	120	1.6	0.19	exterior flood lights (hps)	2/3/06	
Hancock ES		1	1	Stage	Electrical room NE corner	L1	2	1	277	4.2	1.16	court lights		need contactor
Hancock ES		1		Stage	Electrical room NE corner	L1	4		277	6.1	1.69	exterior bldg lights		
Hancock ES		1		Stage	Electrical room NE corner	L1	18		277	4.7	1.30	breezeway lights		
Hancock ES		1		Stage	Electrical room NE corner	L1	1		277		0.00	parking lot lights		
Hancock ES		1		Stage	Electrical room NE corner	L1	3		277		0.00	parking lot lights		
Hancock ES		1		Stage	Electrical room NE corner	L1	5		277		0.00	parking lot lights		
Hancock ES		2	1	1	Electrical room NE corner	L	1	1	277	2.1	0.58	exterior bldg lights		
Hancock ES		2	1	1	Electrical room NE corner	L	3		277	1.7	0.47	exterior bldg lights		
Hancock ES		3	1	2	Electrical room NE corner	L	1	1	277	2.2	0.61	breezeway lights		
Hancock ES		3		2	Electrical room NE corner	L	3		277	1.6	0.44	breezeway lights		
Hancock ES		3		2	Electrical room NE corner	L	34		277	6	1.66	wallpacks		
Hancock ES		4	1	3	Electrical room SE corner	L4	1	1	277	1.3	0.36	night lights		
Hancock ES		4		3	Electrical room SE corner	L4	3		277	2.3	0.64	breezeway lights		
Hancock ES		5	1	Bungalows	Classroom #44	B44	2	1	120	6.2	0.74	perimeter pole lights w/ hps		
Mann MS	TC069	1	1	500	Custodian Closet, 2nd Level North	C	8		120	5	0.60	HPS floods and walkway lights, 2nd floor north	1/3/06	
Mann MS	TC069	1		500	Custodian Closet, 2nd Level North	C	9		120	2.6	0.31	Step lights & HPS over stairs northeast	1/3/06	
Mann MS	TC069	1		500	Custodian Closet, 2nd Level North	C	10		120	3.9	0.47	2nd floor walkway elevator, flood & bridge	1/3/06	
Mann MS	TC069	1		500	Custodian Closet, 2nd Level North	C	12		120	3.8	0.46	walkway night lights, both levels	1/3/06	
Mann MS	TC069	1		500	Custodian Closet, 2nd Level North	C	17		120	2.1	0.25	south lower step & walkway night lights	1/3/06	
Mann MS	TC069	1		500	Custodian Closet, 2nd Level North	C	20		120	3.2	0.38	2nd floor walkway lights south	1/3/06	
Mann MS	TC069	1		500	Custodian Closet, 2nd Level North	C	21		120	1.8	0.22	timer & stair lights, northeast	1/3/06	
Mann MS	TC069	1		500	Custodian Closet, 2nd Level North	C	24		120	8.4	1.01	parking lot flood lights	1/3/06	
Mann MS	TC069	2	1	600	Custodian / Storage closet by room 601	LA	21	1	120	2.2	0.26	Exterior walkway lights & timer	1/3/06	
Mann MS	TC069	3	1	100	Office behind reception	A	14	1	120	2.4	0.29	Exterior lights	1/3/06	
Mann MS	TC069	3	1	100	Office behind reception	A	31	1	120	3	0.36	Stage area canopy lights	1/3/06	
Mann MS	TC069	4	1	100	Vice Principals Office	A	1	1	120	5.2	0.62	to parking lot	1/3/06	
Mann MS	TC069	5	1	300	Inside room 301	LA	2	1	120	3.2	0.38	Wallpacks & timer	1/3/06	
Mann MS	TC069	5		300	Inside room 301	LA	6		120	4	0.48	Roof flood & canopy CF's	1/3/06	
Morse HS	TC060	1	1	TA	Electrical room #1 across from room T101	A1	39	1	120	8	0.96	parking lot lights	1/19/06	
Morse HS	TC060	1		TA	Electrical room #1 across from room T101	A1	41		208	8.1	1.68	parking lot lights	1/19/06	
Morse HS	TC060	2	1	TA	Electrical room #1 across from room T101	A1	25	1	120	0	0.00	timer power	1/19/06	
Morse HS	TC060	2		TA	Electrical room #1 across from room T101	A1	37		120	2	0.24	passageway lights	1/19/06	
Morse HS	TC060	3	1	400B	Between rooms #417 & 418 in electrical room	L	5	1	120	6.3	0.00	exterior bldg lights	1/19/06	
Morse HS	TC060	4	1	Gym	Inside gym by panel LA	LA	27	1	120	2.5	0.00	passageway & entrance lights	1/19/06	
Morse HS	TC060	4		Gym	Inside gym by panel LA	LA	34		120	2.4	0.00	passageway & entrance lights	1/19/06	
Lajolla HS	TC122	1	1	Admin Office	Back hallway by restrooms	LS1	7	1	277	5.5	1.52	HPS Wallpacks	1/19/06	
Lajolla HS	TC122	2	1	Admin Office	Back hallway by restrooms	LS2	3	1	120	0.5	0.06	Exterior compact fluorescents	1/19/06	
Lajolla HS	TC122	2		Admin Office	Back hallway by restrooms	LS2	5		120	0.5	0.06	Exterior compact fluorescents	1/19/06	
Lajolla HS	TC122	3	1	400	Back Hallway	LP1	9	1	277	3	0.83	exterior bldg lights	1/19/06	
Lajolla HS	TC122	3		400	Back Hallway	LP1	11		277	1.5	0.42	exterior bldg lights	1/19/06	
Lajolla HS	TC122	4	1	400	Electrical Room E-4B	LP3	11	1	120	0.5	0.06	exterior night lights	1/19/06	
Lajolla HS	TC122	5	1	300	Electrical Room inside room 304	PG2	22	1	120	2.7	0.32	exterior compact fluorescents	1/19/06	
Lajolla HS	TC122	6	1	300	Electrical Room inside room 304	LG2	18	1	277	1.5	0.42	exterior HPS wallpacks	1/19/06	
Lajolla HS	TC122	6		300	Electrical Room inside room 304	LG2	20		277	2.5	0.69	exterior HPS wallpacks	1/19/06	
Lajolla HS	TC122	7	1	300	Electrical Room E3 by Room 313	LG1	11	1	277	1.5	0.42	exterior HPS wallpacks	1/19/06	
Lajolla HS	TC122	8	1	300	Inside Room 308 in a small office	LG3	8	1	277	0.3	0.08	Outside lights	1/19/06	
Lajolla HS	TC122	8		300	Inside Room 308 in a small office	LG3	11		277	4.3	1.19	exterior HPS wallpacks	1/19/06	
Lajolla HS	TC122	9	1	LMC (200)	Inside Hallway of Media Production Room	LM2	8	1	277	1.5	0.42	exterior lights	1/19/06	
Lajolla HS	TC122	9		LMC (200)	Inside Hallway of Media Production Room	LM2	12		277	2.6	0.72	exterior wallpacks	1/19/06	
Lajolla HS	TC122	10	1	LMC (200)	Electrical Room by Library entrance	PM1	11	1	120	5.8	0.70	quad area pole lights	1/19/06	
Lajolla HS	TC122	10		LMC (200)	Electrical Room by Library entrance	PM1	13		120	0.5	0.06	exterior lights	1/19/06	
Lajolla HS	TC122	11	1	LMC (200)	Electrical Room by Library entrance	LM1	15	1	277	0.6	0.17	exterior lights	1/19/06	
Lajolla HS	TC122	11		LMC (200)	Electrical Room by Library entrance	LM1	17		277	5	1.39	wallpacks	1/19/06	
Lajolla HS	TC122	12	1	600	Storage room inside room 604	LM2	14	1	277	5.5	1.52	exterior wallpacks	1/19/06	
Lajolla HS	TC122	13	1	700	Electrical room rear of classrooms, midway	PA	31	1	120	3.5	0.42	exterior HPS wallpacks	1/19/06	
Lajolla HS	TC122	13		700	Electrical room rear of classrooms, midway	PA	33		120	4.5	0.54	exterior HPS wallpacks	1/19/06	

Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location				Time Clocks							Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled				
LaJolla HS	TC122	14	1	900	Janitor room J8	PT1	10	1	120	4.5	0.54		bldg exterior lights front	1/19/06	900 bldg panel LT1, ckt #8 was for exterior wallpacks but the wires are missing from the conduit going to the lights.
LaJolla HS	TC122	14		900	Janitor room J8	PT1	12		120	6	0.72		bldg exterior lights rear	1/19/06	Could add a clock some day for HID lights on top of the gym.
LaJolla HS	TC122	15	1	900	Electrical Room E9	B1	2	1	120	0	0.00		power for timer & existing contactors	1/19/06	
LaJolla HS	TC122	15		900	Electrical Room E9	A	12		277	3.8	1.05		2nd floor passageway lights	1/19/06	
LaJolla HS	TC122	15		900	Electrical Room E9	A	14		277	7.9	2.19		parking lot lights	1/19/06	
LaJolla HS	TC122	15		900	Electrical Room E9	A	16		277	7.8	2.16		parking lot lights	1/19/06	
LaJolla HS	TC122	15		900	Electrical Room E9	A	18		277	2	0.55		perimeter lights	1/19/06	
LaJolla HS	TC122	15		900	Electrical Room E9	A	11		277	3.8	1.05		Exterior compact fluorescent wall pack sensor	1/19/06	
LaJolla HS	TC122	16	1	800	Electrical / Storage room in room 803	LC31	13	1	277	3	0.83		exterior wallpacks	1/19/06	
Kumyaay		1	1	multi purpose	electrical meter room by supply room	MP	13	1	120	5	0.60		timer / contactor wallpacks	2/6/06	lunch court lights are on 3 way switches only
Kumyaay		1		multi purpose	electrical meter room by supply room	MP	15		120	8.2	0.98		covered passageway lights	2/6/06	
Kumyaay		1		multi purpose	electrical meter room by supply room	MP	17		120	8.5	1.02		wallpacks	2/6/06	
Kumyaay		2	1	Office	electrical room by faculty lounge and custodian	A	15	1	120	3.5	0.42		timer / contactor & bldg wallpacks	2/6/06	
Kumyaay		2		Office	electrical room by faculty lounge and custodian	A	29		208	18.5	3.85		parking lot lights	2/6/06	
Kumyaay		2		Office	electrical room by faculty lounge and custodian	A	31		208	18.1	3.76		parking lot lights	2/6/06	
Kumyaay		3	1	K	classroom k-2 inside cupboard	K	7		120	2.4	0.29		timer & bldg exterior wallpacks	2/6/06	
Kumyaay		4	1	Room 1	inside classroom #1 cast wall	PF	11	1	120	6.5	0.78		timer & bldg exterior walkway lights	2/6/06	
Kumyaay		5	1	Room 22	inside classroom #22 nw corner	BF	10	1	120	2.2	0.26		timer & wallpack	2/6/06	inside classroom 23 (circuit 2) in unmarked panel has photocell controlled lps pole light for rear parking lot light 120v 1.7 amps
Kumyaay		6	1	Library	electrical room outside in rear corner of bldg	ME2	15	1	120	4.8	0.58		timer & wallpacks, contactor	2/6/06	
Kumyaay		6		Library	electrical room outside in rear corner of bldg	ME2	17		208	1.5	0.31		stair lights	2/6/06	
Kumyaay		6		Library	electrical room outside in rear corner of bldg	ME2	19		208	1.5	0.31		stair lights	2/6/06	
Jackson ES		1	1	Office	hallway by exit to east exterior	B500	14	1	120	5.5	0.66		exterior HPS floods on bldg	2/7/06	
Jackson ES		2	1	Bungalows Restrooms	inside custodian room on wall by door	SUBA	2	1	120	5	0.60		exterior HPS wallpacks on bldg	2/7/06	
Jackson ES		3	1	B-43	inside classroom B-43	B43	12	1	120	2.5	0.30		exterior HPS wallpack on bldg	2/7/06	
Jackson ES		4	1	Library	inside NIDF room high on wall by door	L1B1	15	1	120	3.5	0.42		exterior wall mounted CF lights	2/7/06	
Jackson ES		5	1	400	inside classroom 22	G	21	1	120	1.5	0.18		exterior wallpack on bldg	2/7/06	
Jackson ES		6	1	Bungalows	inside classroom 25	B25	1	1	120	1.6	0.19		exterior breezeway lights	2/7/06	
Correia MS		1	1	100	Office / Mail room on wall 7 high	1LA	10	1	120	1.8	0.19		night lights in breezeway	2/9/06	
Correia MS		2	1	400	supply room	4LB	10	1	120	1.2	0.14		night lights in breezeway	2/9/06	
Correia MS		3	1	600	room 601 (band) in electrical cabinet	6LA	7	1	120	1.9	0.23		night lights in breezeway	2/9/06	
Correia MS		4	1	Bungalows	inside room B-3 low down by panel	B3	3	1	120	8	0.96		2 400w HPS lights on 25' pole by stairs	2/9/06	
Wangenheim MS		1	1	Office	electrical room #1 se corner	GLP	13	1	120	5.5	0.66		roof floods for parking lot	2/10/06	
Wangenheim MS		2	1	Office	electrical room #1 se corner	GL	17	1	277	1.7	0.47		breezeway lights	2/10/06	
Wangenheim MS				Office	electrical room #1 se corner	GL	19		277	1.6	0.44		breezeway lights	2/10/06	
Wangenheim MS		3	1	500	electrical room nw corner of bldg	ACP	38	1	120	2.5	0.30		250w HID floodlight	2/10/06	
Wangenheim MS		4	1	500	electrical room nw corner of bldg	ALA	4	1	277	1.3	0.36		breezeway lights	2/10/06	
Wangenheim MS				500	electrical room nw corner of bldg	ALA	6		277	1.8	0.50		breezeway lights	2/10/06	
Wangenheim MS		5	1	400	electrical room #4 between 403 & 404	DPI	4	1	120	5.5	0.66		roof floods (HPS)	2/10/06	
Wangenheim MS		6	1	400	electrical room #4 between 403 & 404	DL	23	1	277	1.5	0.42		breezeway lights	2/10/06	
Wangenheim MS				400	electrical room #4 between 403 & 404	DL	25		277	1.3	0.36		breezeway lights	2/10/06	
Wangenheim MS		7	1	200	electrical room #5 by classroom 204	CCP	9	1	120	8.5	1.02		roof flood lights	2/10/06	
Wangenheim MS		8	1	100	electrical room #6 by classroom 107	HPA	30	1	120	10.8	1.30		roof floods	2/10/06	
Wangenheim MS		9	1	100	electrical room #8 by classroom 107	HLA	11	1	277	2.3	0.64		breezeway lights	2/10/06	
Wangenheim MS				100	electrical room #8 by classroom 107	HLA	17		277	1.2	0.33		breezeway lights	2/10/06	
Wangenheim MS		10	1	600	electrical room #2 north end of bldg	IL	2	1	277	2.3	0.64		exterior bldg lights	2/10/06	
Wangenheim MS				600	electrical room #2 north end of bldg	IL	4		277	2	0.55		exterior bldg lights	2/10/06	
Wangenheim MS		11	1	800	electrical room #1 north end of bldg	2L	2	1	277	1.7	0.47		exterior bldg lights	2/10/06	
Wangenheim MS				800	electrical room #1 north end of bldg	2L	4		277	2.2	0.61		exterior bldg lights	2/10/06	
Wangenheim MS		12	1	900	electrical room #1 north end of bldg	3L	22	1	277	5	1.39		exterior bldg lights	2/10/06	
Wangenheim MS				900	electrical room #1 north end of bldg	3L	24		277	4.5	1.25		exterior bldg lights	2/10/06	
Wangenheim MS		13	1	B7	inside classroom #B7	B7	2	1	120	2.6	0.31		exterior HPS wallpack & CF light by door	2/10/06	
Wangenheim MS		14	1	B25	inside classroom #B25	B25	10	1	120	2.8	0.34		exterior bldg lights	2/10/06	
Wangenheim MS		15	1	PE	electrical room by girls side south	L	2	1	277	1.2	0.33		exterior bldg lights	2/10/06	
Pacific Beach MS	TC129	1	1	Cafeteria	Kitchen on wall above panel A	A	1	1	120	3.4	0.41		lunch court lights	2/9/06	
Pacific Beach MS	TC129	1		Cafeteria	Kitchen on wall above panel A	A	3		120	4.8	0.58		lunch court lights	2/9/06	
Pacific Beach MS	TC129	2	1	Admin	Alarm electrical room	A	42	1	120	3.8	0.46		breezeway lights & stairway lights	2/9/06	
Pacific Beach MS	TC129	3	1	Library	downstairs electrical room off hallway	B	42	1	120	3.2	0.38		exterior CF lights on walls & breezeway	2/9/06	

Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location				Time Clocks							Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled				
Dana MS		1	1	Girls Locker Room,	storage room w/ rollup door	MP	40	1	120	8.9	1.07	exterior wallpacks	2/8/06		
Dana MS		1		Girls Locker Room,	storage room w/ rollup door	MP	42		120	2.3	0.28	exterior C.F. lights	2/8/06		
Dana MS		2	1	Auditorium	in basement electrical room	5A1	2	1	120	3	1.08	exterior wallpacks	2/8/06		
Dana MS		2		Auditorium	in basement electrical room	5A1	4		120	2.6	0.31	exterior down lights	2/8/06		
Dana MS		2		Auditorium	in basement electrical room	5A1	6		120			timer power only	2/8/06		
Dana MS		3	1	Main	outside switchgear outside classroom #124	LPS	17	1	120		0.00	timer power & contactor power only	2/8/06	There are 4 existing clocks in hallways at 4' A.F. & accessible by students who may tamper or push override switches that can't be secured.	
Dana MS		3		Main	outside switchgear outside classroom #124	LPS	1		120	10.2	1.22	exterior LPS wallpacks	2/8/06		
Dana MS		3		Main	outside switchgear outside classroom #124	LPS	3		120	9.5	1.14	exterior LPS wallpacks	2/8/06		
Dana MS		3		Main	outside switchgear outside classroom #124	LPS	2		208	16	3.33	parking lot lights LPS	2/8/06		
Dana MS		3		Main	outside switchgear outside classroom #124	LPS	4		208	16.2	3.37	parking lot lights LPS	2/8/06		
Dana MS		3		Main	outside switchgear outside classroom #124	LPS	6		208	22.1	4.60	parking lot lights LPS	2/8/06		
Dana MS		3		Main	outside switchgear outside classroom #124	LPS	8		208	21.9	4.56	parking lot lights LPS	2/8/06		
Dana MS		3		Main	outside switchgear outside classroom #124	LPS	10		208	26.5	5.51	parking lot lights LPS	2/8/06		
Dana MS		3		Main	outside switchgear outside classroom #124	LPS	12		208	25.6	5.32	parking lot lights LPS	2/8/06		
Brooklyn ES		1	1	E	Electrical room	LP2E1	24	1	120		0.00	timer & contactor power only	2/14/06		
Brooklyn ES		1		E	Electrical room	HP1E	1		277	3.5	0.97	exterior corridor & bldg lights	2/14/06		
Brooklyn ES		2	1	F	Electrical room	LP2F1	20	1	120		0.00	timer & contactor power only	2/14/06		
Brooklyn ES		2		F	Electrical room	HP1F	1		277	7.8	2.16	exterior corridor & bldg lights	2/14/06		
Brooklyn ES		3	1	D	Electrical room	LP2D1	7	1	120		0.00	timer & contactor power only	2/14/06		
Brooklyn ES		3		D	Electrical room	HP1D1	1		277	3.2	0.89	exterior corridor & bldg lights	2/14/06		
Brooklyn ES		4	1	C	Electrical room	LP2C1	31	1	120		0.00	timer & contactor power only	2/14/06		
Brooklyn ES		4		C	Electrical room	HP1C1	1		277	6	1.66	exterior corridor & bldg lights	2/14/06		
Brooklyn ES		5	1	B	Electrical room	LP1B2	11	1	120		0.00	timer & contactor power only	2/14/06		
Brooklyn ES		5		B	Electrical room	HP1B1	1		277	6	1.66	exterior corridor & bldg lights	2/14/06		
Brooklyn ES		6	1	A	Main Electrical room	LP2A1	25	1	120		0.00	timer & contactor power only	2/14/06		
Brooklyn ES		6		A	Main Electrical room	LP1A2	10		120	3.7	0.44	monument sign	2/14/06		
Brooklyn ES		6		A	Main Electrical room	HP1A1	1		277	7	1.94	exterior lights	2/14/06		
Brooklyn ES		6		A	Main Electrical room	HP1A1	2		277	4.5	1.27	parking lot lights	2/14/06		
Brooklyn ES		6		A	Main Electrical room	HP1A1	4		277	4.5	1.27	parking lot lights	2/14/06		
Brooklyn ES		6		A	Main Electrical room	HP1A1	6		277	4.2	1.16	flag pole up lights	2/14/06		
Horton Elementary		1	1	K3	Inside Classroom K3	K3	6	1	120	8.3	1.00	2 big floodlights	2/14/06		
Horton Elementary		2	1	K3	Inside Classroom K3	K3	6	1	120	3	0.36	wallpacks	2/14/06		
Horton Elementary		3	1	K2	Inside Equipment Room	SubK	2	1	120	4	0.48	35' parking lot lights	2/14/06		
Horton Elementary		3		K2	Inside Equipment Room	SubK	4		208	4	0.83	35' parking lot lights	2/14/06		
Horton Elementary		4	1	K9	Inside Classroom K9	K9	1	1	120	2.5	0.30	1 wallpack fixture	2/14/06		
Horton Elementary		5	1	K12	Inside Classroom K12	K12	2	1	120	2.5	0.30	1 wallpack fixture	2/14/06		
Horton Elementary		6	1	K23	Inside Classroom K23	PCB23	1	1	120	2.4	0.29	1 wallpack fixture	2/14/06		
Horton Elementary		7	1	K30	Inside Classroom K30	PCR30	7	1	120	2.4	0.29	1 wallpack fixture	2/14/06		
Horton Elementary		8	1	37	Inside Classroom 37	PCR37	1	1	120	4	0.48	1 large floodlight	2/14/06		
NYE		1	1	A	computer room	A	1	1	120	15.5	1.86	parking lot lights	2/7/06	All other exterior lighting is controlled by the "Simplex Master Clock" EMS system (on at dusk and off at sunrise).	
NYE				A	computer room	A	3		208	15.3	3.18	parking lot lights	2/7/06		
Marston MS		1	1	B3	restrooms by B3 outside on wall	B3 Main	1	1	120	2.5	0.30	HPS floodlight for stairs	2/28/06		
Marston MS		2	1	B7	office B7 in the satellite section	B7	2	1	120	2.8	0.34	HPS flood & CF light	2/28/06		
Marston MS		3	1	Staff RR	gear locker between restroom	RR	4	1	120	0.6	0.07	CF flood light	2/28/06		
Kieller MS		1	1	Admin	inside staff lounge above panel B	B	1	1	120	5.6	0.67	HPS passageway lights	2/21/06		
Kieller MS		2	1	2 Story Bldg	Inside electrical room H201A 2nd floor	D	2	1	120	6.8	0.82	exterior passageway lights	2/21/06		
Kieller MS		2		2 Story Bldg	Inside electrical room H201A 2nd floor	D	8		120	3.2	0.38	exterior passageway lights	2/21/06		
Kieller MS		2		2 Story Bldg	Inside electrical room H201A 2nd floor	D	10		120	3.8	0.46	exterior passageway lights	2/21/06		
Kieller MS		2		2 Story Bldg	Inside electrical room H201A 2nd floor	D	12		120	3.6	0.43	exterior passageway lights	2/21/06		
Kieller MS		3	1	Library	electrical room	F	42	1	120	8.3	1.00	10 exterior quartz lights	2/21/06		
Kieller MS		4	1	B12	classroom east wall 2 ft high	B15	15	1	120	4.6	0.55	exterior security lights	2/21/06		
Kieller MS		5	1	B19	classroom east wall 2 ft high	B19	17	1	120	5.4	0.65	exterior security lights	2/21/06		
Valencia Park ES		1	1	Auditorium	on the upper stage wall by electrical panels	C	14	1	120	4.3	0.52	roof flood lights	02/23/06	the rest of the lights in the school that are exterior are on wall switches and new bldg photocell controlled contactor.	
Valencia Park ES				Auditorium	on the upper stage wall by electrical panels	C	16		120	8	0.96	marquis stage	02/23/06		
Valencia Park ES		2	1	Admin	conference room #2 8' high by sink	B	7	1	120	3.8	0.46	400w flood light outside	02/23/06		
Euclid ES		1	1	admin	electrical room by office A-121	A	14	1	120	2.3	0.28	exterior bldg lts	2/24/06		
Euclid ES		1		admin	electrical room by office A-121	A	16		120	3.4	0.41	bldg nite lts and relay for pl lts	2/24/06		
Euclid ES		2	1	admin	electrical room by office A-121	A	1	1	120	6.5	0.78	parking lot and K4 & K6 lights	2/24/06		
Euclid ES		2		admin	electrical room by office A-121	A	3		120	6.7	0.80	parking lot and K4 & K6 lights	2/24/06		
Euclid ES		3	1	library	Gear locker / elec room next to A-132	B2	25	1	120	7.5	0.90	roof floods west side of bldg	2/24/06		
Euclid ES		4	1	library	Gear locker / elec room next to A-132	B	42	1	120	6.2	0.74	timer contactor power & exterior wall floods	2/24/06		
Euclid ES		4		library	Gear locker / elec room next to A-132	B	20		120	3	0.36	exterior bldg lights	2/24/06		

Appendix B. Time Clock Field Installation Report (continued)

School	ID #	Item	Location				Time Clocks						Date Complete	Comments
			Bldg	Room	Panel #	Circuit	Qty	Volts	Amps	KW	Lights Controlled			
Euclid ES		4		library	Gear locker / elec room next to A-132 workroom by room B1 classroom, northwall	B	22		120	3.5	0.42	exterior bldg lights	2/24/06	
Euclid ES		5	1	D	workroom by room B1 classroom, northwall	D	38	1	120	7.9	0.95	timer contactor power & outside flood lights	2/24/06	
Euclid ES		5		D	workroom by room B1 classroom, northwall	D	16		120	3.5	0.42	exterior bldg lights	2/24/06	
Euclid ES		5		D	workroom by room B1 classroom, northwall	D	18		120	5.1	0.61	exterior bldg lights	2/24/06	
Euclid ES		6	1	C	inside classroom C5	E3	9	1	120	2.5	0.30	exterior night lights	2/24/06	
Euclid ES		7	1	C	inside electrical room behind office C-12	G	7	1	120	1.8	0.22	exterior CF lights on 'C' bldg corridors	2/24/06	
Euclid ES		7		C	inside electrical room behind office C-12	G	9		120	1.9	0.23	exterior CF lights on 'C' bldg corridors	2/24/06	
Euclid ES		8	1	D1	inside classroom D1	D1	4	1	120	2.5	0.30	outside flood light	2/24/06	
Euclid ES		9	1	K3	inside elec room in classroom K3	K3	7	1	120	1.5	0.18	exterior compact fluorescents	2/24/06	
Muirlands MS		1	1	100	H.V. Electrical Room	R	7	1	120	4.5	0.54	walkway lights	3/2/06	Floodlights (2) on auditorium on stage lighting panel breaker A6 with the marquis sig. For parking lot lighting one flood light on bungalow is on a key switch.
Muirlands MS		1		100	H.V. Electrical Room	R	8		120	4.4	0.53	walkway lights	3/2/06	
Muirlands MS		1		100	H.V. Electrical Room	R	9		120	4.4	0.53	walkway lights	3/2/06	
Muirlands MS		1		100	H.V. Electrical Room	R	10		120	4.2	0.50	walkway lights	3/2/06	
Muirlands MS		1		100	H.V. Electrical Room	R	11		120	4.1	0.48	walkway lights	3/2/06	
Muirlands MS		1		100	H.V. Electrical Room	R	12		120	3.8	0.46	walkway lights	3/2/06	
Muirlands MS		1		100	H.V. Electrical Room	R	13		120	2.1	0.25	night lights	3/2/06	
Muirlands MS		1		100	H.V. Electrical Room	R	14		120	2	0.24	night lights	3/2/06	
Muirlands MS		1		100	H.V. Electrical Room	R	15		120	4.2	0.50	walkway lights	3/2/06	
Muirlands MS		1		100	H.V. Electrical Room	R	16		120	2.1	0.25	night lights	3/2/06	
Muirlands MS		1		100	H.V. Electrical Room	R	17		120	4.1	0.49	walkway lights	3/2/06	
Muirlands MS		1		100	H.V. Electrical Room	R	18		120	2.4	0.29	night lights	3/2/06	
Muirlands MS		2	1	500	Inside sprinkler riser room 2nd floor	2L	32	1	120	4	0.48	400w HPS pole light by B-4	3/2/06	
Muirlands MS		3	1	500	1st floor HV electrical room by 500	S	7	1	120	4.1	0.49	walkway lights	3/2/06	
Muirlands MS		3		500	1st floor HV electrical room by 500	S	8		120	4	0.48	walkway lights	3/2/06	
Muirlands MS		3		500	1st floor HV electrical room by 500	S	9		120	4.2	0.50	walkway lights	3/2/06	
Muirlands MS		3		500	1st floor HV electrical room by 500	S	10		120	3.9	0.47	walkway lights	3/2/06	
Muirlands MS		3		500	1st floor HV electrical room by 500	S	11		120	3.8	0.46	walkway lights	3/2/06	
Muirlands MS		3		500	1st floor HV electrical room by 500	S	12		120	4	0.48	walkway lights	3/2/06	
Muirlands MS		3		500	1st floor HV electrical room by 500	S	13		120	3.8	0.46	walkway lights	3/2/06	
Muirlands MS		3		500	1st floor HV electrical room by 500	S	14		120	4.2	0.50	night lights	3/2/06	
Muirlands MS		3		500	1st floor HV electrical room by 500	S	15		120	3.6	0.43	walkway lights	3/2/06	
Muirlands MS		3		500	1st floor HV electrical room by 500	S	16		120	4.1	0.49	night lights	3/2/06	
Muirlands MS		3		500	1st floor HV electrical room by 500	S	17		120	2.1	0.25	night lights	3/2/06	
Oak Park ES		1	1	Admin	Custodian supply room by door to parking lot	D	37	1	120	3.5	0.42	parking lot lights	3/3/06	some flood lights are on switches in the main office as well as passageway lights
Oak Park ES		2	1	Library	inside head end room	L	13	1	120	3.5	0.42	exterior bldg and canopy lights	3/3/06	
Oak Park ES		3	1	B21	inside classroom B21 on wall by door	B12	3	1	120	3.7	0.44	400w HPS flood lights	3/3/06	
Oak Park ES		4	1	B11	inside classroom on wall by door	A	1	1	120	1.5	0.18	HPS wallpack	3/3/06	
Oak Park ES		5	1	B4	inside classroom on wall by door	B4	1	1	120	4	0.48	HPS flood	3/3/06	
Oak Park ES		6	1	B9	inside classroom on wall by door	B9	1	1	120	3.5	0.42	HPS flood	3/3/06	

8.3 Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data

obs	School Year	Year	Mon	DOW	Date	Day type (REG)	CONTRACT DAY (REG)	Weekend Days	Holidays (REG)	Breaks (REG)	Day type year end	CONTRACT DAYS YEAR ROUND	Weekend Days	Holidays (Year Round)	Breaks (Year round)	Sunrise	Sunset	AM Beg-time	AM Off-time	AM Timer Off-time	AM Time Savings
1	2005-06	2006	1	1	1/1/2006	WE		1			WE		1			6:51 AM	4:53 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
2	2005-06	2006	1	2	1/2/2006	H			1		BR				1	6:51 AM	4:54 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
3	2005-06	2006	1	3	1/3/2006	X	1				BR				1	6:51 AM	4:55 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
4	2005-06	2006	1	4	1/4/2006	X	1				BR				1	6:51 AM	4:56 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
5	2005-06	2006	1	5	1/5/2006	X	1				BR				1	6:51 AM	4:56 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
6	2005-06	2006	1	6	1/6/2006	X	1				BR				1	6:51 AM	4:57 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
7	2005-06	2006	1	7	1/7/2006	WE		1			WE		1			6:51 AM	4:58 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
8	2005-06	2006	1	1	1/8/2006	WE		1			WE		1			6:51 AM	4:59 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
9	2005-06	2006	1	2	1/9/2006	X	1				BR				1	6:51 AM	5:00 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
10	2005-06	2006	1	3	1/10/2006	X	1				BR				1	6:51 AM	5:01 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
11	2005-06	2006	1	4	1/11/2006	X	1				BR				1	6:51 AM	5:01 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
12	2005-06	2006	1	5	1/12/2006	X	1				BR				1	6:51 AM	5:02 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
13	2005-06	2006	1	6	1/13/2006	X	1				BR				1	6:51 AM	5:03 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
14	2005-06	2006	1	7	1/14/2006	WE		1			WE		1			6:51 AM	5:04 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
15	2005-06	2006	1	1	1/15/2006	WE		1			WE		1			6:50 AM	5:05 PM	5:15 AM	6:50 AM	7:00 AM	0:10:00
16	2005-06	2006	1	2	1/16/2006	H			1		H			1		6:50 AM	5:06 PM	5:15 AM	6:50 AM	7:00 AM	0:10:00
17	2005-06	2006	1	3	1/17/2006	X	1				X	1				6:50 AM	5:07 PM	5:15 AM	6:50 AM	7:00 AM	0:10:00
18	2005-06	2006	1	4	1/18/2006	X	1				X	1				6:50 AM	5:08 PM	5:15 AM	6:50 AM	7:00 AM	0:10:00
19	2005-06	2006	1	5	1/19/2006	X	1				X	1				6:49 AM	5:09 PM	5:15 AM	6:49 AM	7:00 AM	0:11:00
20	2005-06	2006	1	6	1/20/2006	X	1				X	1				6:49 AM	5:10 PM	5:15 AM	6:49 AM	7:00 AM	0:11:00
21	2005-06	2006	1	7	1/21/2006	WE		1			WE		1			6:49 AM	5:11 PM	5:15 AM	6:49 AM	7:00 AM	0:11:00
22	2005-06	2006	1	1	1/22/2006	WE		1			WE		1			6:48 AM	5:12 PM	5:15 AM	6:48 AM	7:00 AM	0:12:00
23	2005-06	2006	1	2	1/23/2006	X	1				X	1				6:48 AM	5:12 PM	5:15 AM	6:48 AM	7:00 AM	0:12:00
24	2005-06	2006	1	3	1/24/2006	X	1				X	1				6:47 AM	5:13 PM	5:15 AM	6:47 AM	7:00 AM	0:13:00
25	2005-06	2006	1	4	1/25/2006	X	1				X	1				6:47 AM	5:14 PM	5:15 AM	6:47 AM	7:00 AM	0:13:00
26	2005-06	2006	1	5	1/26/2006	X	1				X	1				6:46 AM	5:15 PM	5:15 AM	6:46 AM	7:00 AM	0:14:00
27	2005-06	2006	1	6	1/27/2006	X	1				X	1				6:46 AM	5:16 PM	5:15 AM	6:46 AM	7:00 AM	0:14:00
28	2005-06	2006	1	7	1/28/2006	WE		1			WE		1			6:45 AM	5:17 PM	5:15 AM	6:45 AM	7:00 AM	0:15:00
29	2005-06	2006	1	1	1/29/2006	WE		1			WE		1			6:45 AM	5:18 PM	5:15 AM	6:45 AM	7:00 AM	0:15:00
30	2005-06	2006	1	2	1/30/2006	X	1				X	1				6:44 AM	5:19 PM	5:15 AM	6:44 AM	7:00 AM	0:16:00
31	2005-06	2006	1	3	1/31/2006	X	1				X	1				6:44 AM	5:20 PM	5:15 AM	6:44 AM	7:00 AM	0:16:00
32	2005-06	2006	2	4	2/1/2006	X	1				X	1				6:43 AM	5:21 PM	5:15 AM	6:43 AM	7:00 AM	0:17:00
33	2005-06	2006	2	5	2/2/2006	X	1				X	1				6:42 AM	5:22 PM	5:15 AM	6:42 AM	7:00 AM	0:18:00
34	2005-06	2006	2	6	2/3/2006	X	1				X	1				6:41 AM	5:23 PM	5:15 AM	6:41 AM	7:00 AM	0:19:00
35	2005-06	2006	2	7	2/4/2006	WE		1			WE		1			6:41 AM	5:24 PM	5:15 AM	6:41 AM	7:00 AM	0:19:00
36	2005-06	2006	2	1	2/5/2006	WE		1			WE		1			6:40 AM	5:25 PM	5:15 AM	6:40 AM	7:00 AM	0:20:00
37	2005-06	2006	2	2	2/6/2006	X	1				X	1				6:39 AM	5:26 PM	5:15 AM	6:39 AM	7:00 AM	0:21:00
38	2005-06	2006	2	3	2/7/2006	X	1				X	1				6:38 AM	5:27 PM	5:15 AM	6:38 AM	7:00 AM	0:22:00
39	2005-06	2006	2	4	2/8/2006	X	1				X	1				6:38 AM	5:27 PM	5:15 AM	6:38 AM	7:00 AM	0:22:00
40	2005-06	2006	2	5	2/9/2006	X	1				X	1				6:37 AM	5:28 PM	5:15 AM	6:37 AM	7:00 AM	0:23:00
41	2005-06	2006	2	6	2/10/2006	X	1				X	1				6:36 AM	5:29 PM	5:15 AM	6:36 AM	7:00 AM	0:24:00
42	2005-06	2006	2	7	2/11/2006	WE		1			WE		1			6:35 AM	5:30 PM	5:15 AM	6:35 AM	7:00 AM	0:25:00
43	2005-06	2006	2	1	2/12/2006	WE		1			WE		1			6:34 AM	5:31 PM	5:15 AM	6:34 AM	7:00 AM	0:26:00
44	2005-06	2006	2	2	2/13/2006	H			1		H			1		6:33 AM	5:32 PM	5:15 AM	6:33 AM	7:00 AM	0:27:00
45	2005-06	2006	2	3	2/14/2006	X	1				X	1				6:32 AM	5:33 PM	5:15 AM	6:32 AM	7:00 AM	0:28:00
46	2005-06	2006	2	4	2/15/2006	X	1				X	1				6:31 AM	5:34 PM	5:15 AM	6:31 AM	7:00 AM	0:29:00
47	2005-06	2006	2	5	2/16/2006	X	1				X	1				6:30 AM	5:35 PM	5:15 AM	6:30 AM	7:00 AM	0:30:00
48	2005-06	2006	2	6	2/17/2006	X	1				X	1				6:29 AM	5:36 PM	5:15 AM	6:29 AM	7:00 AM	0:31:00
49	2005-06	2006	2	7	2/18/2006	WE		1			WE		1			6:28 AM	5:36 PM	5:15 AM	6:28 AM	7:00 AM	0:32:00
50	2005-06	2006	2	1	2/19/2006	WE		1			WE		1			6:27 AM	5:37 PM	5:15 AM	6:27 AM	7:00 AM	0:33:00
51	2005-06	2006	2	2	2/20/2006	H			1		H			1		6:26 AM	5:38 PM	5:15 AM	6:26 AM	7:00 AM	0:34:00
52	2005-06	2006	2	3	2/21/2006	X	1				X	1				6:25 AM	5:39 PM	5:15 AM	6:25 AM	7:00 AM	0:35:00
53	2005-06	2006	2	4	2/22/2006	X	1				X	1				6:24 AM	5:40 PM	5:15 AM	6:24 AM	7:00 AM	0:36:00
54	2005-06	2006	2	5	2/23/2006	X	1				X	1				6:23 AM	5:41 PM	5:15 AM	6:23 AM	7:00 AM	0:37:00
55	2005-06	2006	2	6	2/24/2006	X	1				X	1				6:22 AM	5:41 PM	5:15 AM	6:22 AM	7:00 AM	0:38:00
56	2005-06	2006	2	7	2/25/2006	WE		1			WE		1			6:21 AM	5:42 PM	5:15 AM	6:21 AM	7:00 AM	0:39:00
57	2005-06	2006	2	1	2/26/2006	WE		1			WE		1			6:19 AM	5:43 PM	5:15 AM	6:19 AM	7:00 AM	0:41:00
58	2005-06	2006	2	2	2/27/2006	X	1				X	1				6:18 AM	5:44 PM	5:15 AM	6:18 AM	7:00 AM	0:42:00
59	2005-06	2006	2	3	2/28/2006	X	1				X	1				6:17 AM	5:45 PM	5:15 AM	6:17 AM	7:00 AM	0:43:00
60	2005-06	2006	3	4	3/1/2006	X	1				X	1				6:16 AM	5:45 PM	5:15 AM	6:16 AM	7:00 AM	0:44:00
61	2005-06	2006	3	5	3/2/2006	X	1				X	1				6:15 AM	5:46 PM	5:15 AM	6:15 AM	7:00 AM	0:45:00
62	2005-06	2006	3	6	3/3/2006	X	1				X	1				6:14 AM	5:47 PM	5:15 AM	6:14 AM	7:00 AM	0:46:00
63	2005-06	2006	3	7	3/4/2006	WE		1			WE		1			6:12 AM	5:48 PM	5:15 AM	6:12 AM	7:00 AM	0:48:00
64	2005-06	2006	3	1	3/5/2006	WE		1			WE		1			6:11 AM	5:49 PM	5:15 AM	6:11 AM	7:00 AM	0:49:00
65	2005-06	2006	3	2	3/6/2006	X	1				X	1				6:10 AM	5:49 PM	5:15 AM	6:10 AM	7:00 AM	0:50:00
66	2005-06	2006	3	3	3/7/2006	X	1				X	1				6:09 AM	5:50 PM	5:15 AM	6:09 AM	7:00 AM	0:51:00
67	2005-06	2006	3	4	3/8/2006	X	1				X	1				6:07 AM	5:51 PM	5:15 AM	6:07 AM	7:00 AM	0:53:00
68	2005-06	2006	3	5	3/9/2006	X	1				X	1				6:06 AM	5:52 PM	5:15 AM	6:06 AM	7:00 AM	0:54:00
69	2005-06	2006	3	6	3/10/2006	X	1				X	1				6:05 AM	5:52 PM	5:15 AM	6:05 AM	7:00 AM	0:55:00
70	2005-06	2006	3	7	3/11/2006	WE		1			WE		1			6:04 AM	5:53 PM	5:15 AM	6:04 AM	7:00 AM	0:56:00

Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	Sunset	PM Beg	PM Beg On-time	PM Off-Time	PM Time Savings	Controlled On-Hours AM	Controlled On-Hours PM	Controlled On-Hours Total	Basecase On-Hours AM	Basecase On-Hours PM	Basecase On-Hours Total	Traditional Controlled Hours	Year Round Controlled Hours
1	4:53 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:36:00	6:00:00	7:36:00	1:45:00	6:00:00	7:45:00		
2	4:54 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:36:00	6:00:00	7:36:00	1:45:00	6:00:00	7:45:00		
3	4:55 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:36:00	6:00:00	7:36:00	1:45:00	6:00:00	7:45:00	7:36:00	
4	4:56 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:36:00	6:00:00	7:36:00	1:45:00	6:00:00	7:45:00	7:36:00	
5	4:56 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:36:00	6:00:00	7:36:00	1:45:00	6:00:00	7:45:00	7:36:00	
6	4:57 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:36:00	6:00:00	7:36:00	1:45:00	6:00:00	7:45:00	7:36:00	
7	4:58 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:36:00	6:00:00	7:36:00	1:45:00	6:00:00	7:45:00		
8	4:59 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:36:00	6:00:00	7:36:00	1:45:00	6:00:00	7:45:00		
9	5:00 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:36:00	6:00:00	7:36:00	1:45:00	6:00:00	7:45:00	7:36:00	
10	5:01 PM	5:00 PM	5:01 PM	11:00 PM	0:01:00	1:36:00	5:59:00	7:35:00	1:45:00	6:00:00	7:45:00	7:35:00	
11	5:01 PM	5:00 PM	5:01 PM	11:00 PM	0:01:00	1:36:00	5:59:00	7:35:00	1:45:00	6:00:00	7:45:00	7:35:00	
12	5:02 PM	5:00 PM	5:02 PM	11:00 PM	0:02:00	1:36:00	5:58:00	7:34:00	1:45:00	6:00:00	7:45:00	7:34:00	
13	5:03 PM	5:00 PM	5:03 PM	11:00 PM	0:03:00	1:36:00	5:57:00	7:33:00	1:45:00	6:00:00	7:45:00	7:33:00	
14	5:04 PM	5:00 PM	5:04 PM	11:00 PM	0:04:00	1:36:00	5:56:00	7:32:00	1:45:00	6:00:00	7:45:00		
15	5:05 PM	5:00 PM	5:05 PM	11:00 PM	0:05:00	1:35:00	5:55:00	7:30:00	1:45:00	6:00:00	7:45:00		
16	5:06 PM	5:00 PM	5:06 PM	11:00 PM	0:06:00	1:35:00	5:54:00	7:29:00	1:45:00	6:00:00	7:45:00		
17	5:07 PM	5:00 PM	5:07 PM	11:00 PM	0:07:00	1:35:00	5:53:00	7:28:00	1:45:00	6:00:00	7:45:00	7:28:00	6:00:00
18	5:08 PM	5:00 PM	5:08 PM	11:00 PM	0:08:00	1:35:00	5:52:00	7:27:00	1:45:00	6:00:00	7:45:00	7:27:00	6:00:00
19	5:09 PM	5:00 PM	5:09 PM	11:00 PM	0:09:00	1:34:00	5:51:00	7:25:00	1:45:00	6:00:00	7:45:00	7:25:00	6:00:00
20	5:10 PM	5:00 PM	5:10 PM	11:00 PM	0:10:00	1:34:00	5:50:00	7:24:00	1:45:00	6:00:00	7:45:00	7:24:00	6:00:00
21	5:11 PM	5:00 PM	5:11 PM	11:00 PM	0:11:00	1:34:00	5:49:00	7:23:00	1:45:00	6:00:00	7:45:00		
22	5:12 PM	5:00 PM	5:12 PM	11:00 PM	0:12:00	1:33:00	5:48:00	7:21:00	1:45:00	6:00:00	7:45:00		
23	5:12 PM	5:00 PM	5:12 PM	11:00 PM	0:12:00	1:33:00	5:48:00	7:21:00	1:45:00	6:00:00	7:45:00	7:21:00	6:00:00
24	5:13 PM	5:00 PM	5:13 PM	11:00 PM	0:13:00	1:32:00	5:47:00	7:19:00	1:45:00	6:00:00	7:45:00	7:19:00	6:00:00
25	5:14 PM	5:00 PM	5:14 PM	11:00 PM	0:14:00	1:32:00	5:46:00	7:18:00	1:45:00	6:00:00	7:45:00	7:18:00	6:00:00
26	5:15 PM	5:00 PM	5:15 PM	11:00 PM	0:15:00	1:31:00	5:45:00	7:16:00	1:45:00	6:00:00	7:45:00	7:16:00	6:00:00
27	5:16 PM	5:00 PM	5:16 PM	11:00 PM	0:16:00	1:31:00	5:44:00	7:15:00	1:45:00	6:00:00	7:45:00	7:15:00	6:00:00
28	5:17 PM	5:00 PM	5:17 PM	11:00 PM	0:17:00	1:30:00	5:43:00	7:13:00	1:45:00	6:00:00	7:45:00		
29	5:18 PM	5:00 PM	5:18 PM	11:00 PM	0:18:00	1:30:00	5:42:00	7:12:00	1:45:00	6:00:00	7:45:00		
30	5:19 PM	5:00 PM	5:19 PM	11:00 PM	0:19:00	1:29:00	5:41:00	7:10:00	1:45:00	6:00:00	7:45:00	7:10:00	6:00:00
31	5:20 PM	5:00 PM	5:20 PM	11:00 PM	0:20:00	1:29:00	5:40:00	7:09:00	1:45:00	6:00:00	7:45:00	7:09:00	6:00:00
32	5:21 PM	5:00 PM	5:21 PM	11:00 PM	0:21:00	1:28:00	5:39:00	7:07:00	1:45:00	6:00:00	7:45:00	7:07:00	6:00:00
33	5:22 PM	5:00 PM	5:22 PM	11:00 PM	0:22:00	1:27:00	5:38:00	7:05:00	1:45:00	6:00:00	7:45:00	7:05:00	6:00:00
34	5:23 PM	5:00 PM	5:23 PM	11:00 PM	0:23:00	1:26:00	5:37:00	7:03:00	1:45:00	6:00:00	7:45:00	7:03:00	6:00:00
35	5:24 PM	5:00 PM	5:24 PM	11:00 PM	0:24:00	1:26:00	5:36:00	7:02:00	1:45:00	6:00:00	7:45:00		
36	5:25 PM	5:00 PM	5:25 PM	11:00 PM	0:25:00	1:25:00	5:35:00	7:00:00	1:45:00	6:00:00	7:45:00		
37	5:26 PM	5:00 PM	5:26 PM	11:00 PM	0:26:00	1:24:00	5:34:00	6:58:00	1:45:00	6:00:00	7:45:00	6:58:00	6:00:00
38	5:27 PM	5:00 PM	5:27 PM	11:00 PM	0:27:00	1:23:00	5:33:00	6:56:00	1:45:00	6:00:00	7:45:00	6:56:00	6:00:00
39	5:27 PM	5:00 PM	5:27 PM	11:00 PM	0:27:00	1:23:00	5:33:00	6:56:00	1:45:00	6:00:00	7:45:00	6:56:00	6:00:00
40	5:28 PM	5:00 PM	5:28 PM	11:00 PM	0:28:00	1:22:00	5:32:00	6:54:00	1:45:00	6:00:00	7:45:00	6:54:00	6:00:00
41	5:29 PM	5:00 PM	5:29 PM	11:00 PM	0:29:00	1:21:00	5:31:00	6:52:00	1:45:00	6:00:00	7:45:00	6:52:00	6:00:00
42	5:30 PM	5:00 PM	5:30 PM	11:00 PM	0:30:00	1:20:00	5:30:00	6:50:00	1:45:00	6:00:00	7:45:00		
43	5:31 PM	5:00 PM	5:31 PM	11:00 PM	0:31:00	1:19:00	5:29:00	6:48:00	1:45:00	6:00:00	7:45:00		
44	5:32 PM	5:00 PM	5:32 PM	11:00 PM	0:32:00	1:18:00	5:28:00	6:46:00	1:45:00	6:00:00	7:45:00		
45	5:33 PM	5:00 PM	5:33 PM	11:00 PM	0:33:00	1:17:00	5:27:00	6:44:00	1:45:00	6:00:00	7:45:00	6:44:00	6:00:00
46	5:34 PM	5:00 PM	5:34 PM	11:00 PM	0:34:00	1:16:00	5:26:00	6:42:00	1:45:00	6:00:00	7:45:00	6:42:00	6:00:00
47	5:35 PM	5:00 PM	5:35 PM	11:00 PM	0:35:00	1:15:00	5:25:00	6:40:00	1:45:00	6:00:00	7:45:00	6:40:00	6:00:00
48	5:36 PM	5:00 PM	5:36 PM	11:00 PM	0:36:00	1:14:00	5:24:00	6:38:00	1:45:00	6:00:00	7:45:00	6:38:00	6:00:00
49	5:36 PM	5:00 PM	5:36 PM	11:00 PM	0:36:00	1:13:00	5:24:00	6:37:00	1:45:00	6:00:00	7:45:00		
50	5:37 PM	5:00 PM	5:37 PM	11:00 PM	0:37:00	1:12:00	5:23:00	6:35:00	1:45:00	6:00:00	7:45:00		
51	5:38 PM	5:00 PM	5:38 PM	11:00 PM	0:38:00	1:11:00	5:22:00	6:33:00	1:45:00	6:00:00	7:45:00		
52	5:39 PM	5:00 PM	5:39 PM	11:00 PM	0:39:00	1:10:00	5:21:00	6:31:00	1:45:00	6:00:00	7:45:00	6:31:00	6:00:00
53	5:40 PM	5:00 PM	5:40 PM	11:00 PM	0:40:00	1:09:00	5:20:00	6:29:00	1:45:00	6:00:00	7:45:00	6:29:00	6:00:00
54	5:41 PM	5:00 PM	5:41 PM	11:00 PM	0:41:00	1:08:00	5:19:00	6:27:00	1:45:00	6:00:00	7:45:00	6:27:00	6:00:00
55	5:41 PM	5:00 PM	5:41 PM	11:00 PM	0:41:00	1:07:00	5:19:00	6:26:00	1:45:00	6:00:00	7:45:00	6:26:00	6:00:00
56	5:42 PM	5:00 PM	5:42 PM	11:00 PM	0:42:00	1:06:00	5:18:00	6:24:00	1:45:00	6:00:00	7:45:00		
57	5:43 PM	5:00 PM	5:43 PM	11:00 PM	0:43:00	1:04:00	5:17:00	6:21:00	1:45:00	6:00:00	7:45:00		
58	5:44 PM	5:00 PM	5:44 PM	11:00 PM	0:44:00	1:03:00	5:16:00	6:19:00	1:45:00	6:00:00	7:45:00	6:19:00	6:00:00
59	5:45 PM	5:00 PM	5:45 PM	11:00 PM	0:45:00	1:02:00	5:15:00	6:17:00	1:45:00	6:00:00	7:45:00	6:17:00	6:00:00
60	5:45 PM	5:00 PM	5:45 PM	11:00 PM	0:45:00	1:01:00	5:15:00	6:16:00	1:45:00	6:00:00	7:45:00	6:16:00	6:00:00
61	5:46 PM	5:00 PM	5:46 PM	11:00 PM	0:46:00	1:00:00	5:14:00	6:14:00	1:45:00	6:00:00	7:45:00	6:14:00	6:00:00
62	5:47 PM	5:00 PM	5:47 PM	11:00 PM	0:47:00	0:59:00	5:13:00	6:12:00	1:45:00	6:00:00	7:45:00	6:12:00	6:00:00
63	5:48 PM	5:00 PM	5:48 PM	11:00 PM	0:48:00	0:57:00	5:12:00	6:09:00	1:45:00	6:00:00	7:45:00		
64	5:49 PM	5:00 PM	5:49 PM	11:00 PM	0:49:00	0:56:00	5:11:00	6:07:00	1:45:00	6:00:00	7:45:00		
65	5:49 PM	5:00 PM	5:49 PM	11:00 PM	0:49:00	0:55:00	5:11:00	6:06:00	1:45:00	6:00:00	7:45:00	6:06:00	6:00:00
66	5:50 PM	5:00 PM	5:50 PM	11:00 PM	0:50:00	0:54:00	5:10:00	6:04:00	1:45:00	6:00:00	7:45:00	6:04:00	6:00:00
67	5:51 PM	5:00 PM	5:51 PM	11:00 PM	0:51:00	0:52:00	5:09:00	6:01:00	1:45:00	6:00:00	7:45:00	6:01:00	6:00:00
68	5:52 PM	5:00 PM	5:52 PM	11:00 PM	0:52:00	0:51:00	5:08:00	5:59:00	1:45:00	6:00:00	7:45:00	5:59:00	6:00:00
69	5:52 PM	5:00 PM	5:52 PM	11:00 PM	0:52:00	0:50:00	5:08:00	5:58:00	1:45:00	6:00:00	7:45:00	5:58:00	6:00:00
70	5:53 PM	5:00 PM	5:53 PM	11:00 PM	0:53:00	0:49:00	5:07:00	5:56:00	1:45:00	6:00:00	7:45:00		



Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	School Year	Year	Mon	DOW	Date	Day type (REG)	CONTRACT DAY (REG)	Weekend Days	Holidays (REG)	Breaks (REG)	Day type Yearround	CONTRACT DAYS YEAR ROUND	Weekend Days	Holidays (Year Round)	Breaks (Year round)	Sunrise	Sunset	AM Beg-time	AM Off-time	AM Timer Off-time	AM Time Savings
71	2005-06	2006	3	1	3/12/2006	WE		1			WE		1			6:02 AM	5:54 PM	5:15 AM	6:02 AM	7:00 AM	0:58:00
72	2005-06	2006	3	2	3/13/2006	X	1				X	1				6:01 AM	5:55 PM	5:15 AM	6:01 AM	7:00 AM	0:59:00
73	2005-06	2006	3	3	3/14/2006	X	1				X	1				6:00 AM	5:55 PM	5:15 AM	6:00 AM	7:00 AM	1:00:00
74	2005-06	2006	3	4	3/15/2006	X	1				X	1				5:58 AM	5:56 PM	5:15 AM	5:58 AM	7:00 AM	1:02:00
75	2005-06	2006	3	5	3/16/2006	X	1				X	1				5:57 AM	5:57 PM	5:15 AM	5:57 AM	7:00 AM	1:03:00
76	2005-06	2006	3	6	3/17/2006	X	1				X	1				5:56 AM	5:58 PM	5:15 AM	5:56 AM	7:00 AM	1:04:00
77	2005-06	2006	3	7	3/18/2006	WE		1			WE		1			5:55 AM	5:58 PM	5:15 AM	5:55 AM	7:00 AM	1:05:00
78	2005-06	2006	3	1	3/19/2006	WE		1			WE		1			5:53 AM	5:59 PM	5:15 AM	5:53 AM	7:00 AM	1:07:00
79	2005-06	2006	3	2	3/20/2006	X	1				X	1				5:52 AM	6:00 PM	5:15 AM	5:52 AM	7:00 AM	1:08:00
80	2005-06	2006	3	3	3/21/2006	X	1				X	1				5:51 AM	6:01 PM	5:15 AM	5:51 AM	7:00 AM	1:09:00
81	2005-06	2006	3	4	3/22/2006	X	1				X	1				5:49 AM	6:01 PM	5:15 AM	5:49 AM	7:00 AM	1:11:00
82	2005-06	2006	3	5	3/23/2006	X	1				X	1				5:48 AM	6:02 PM	5:15 AM	5:48 AM	7:00 AM	1:12:00
83	2005-06	2006	3	6	3/24/2006	X	1				X	1				5:47 AM	6:03 PM	5:15 AM	5:47 AM	7:00 AM	1:13:00
84	2005-06	2006	3	7	3/25/2006	WE		1			WE		1			5:45 AM	6:03 PM	5:15 AM	5:45 AM	7:00 AM	1:15:00
85	2005-06	2006	3	1	3/26/2006	WE		1			WE		1			5:44 AM	6:04 PM	5:15 AM	5:44 AM	7:00 AM	1:16:00
86	2005-06	2006	3	2	3/27/2006	X	1				X	1				5:43 AM	6:05 PM	5:15 AM	5:43 AM	7:00 AM	1:17:00
87	2005-06	2006	3	3	3/28/2006	X	1				X	1				5:41 AM	6:06 PM	5:15 AM	5:41 AM	7:00 AM	1:19:00
88	2005-06	2006	3	4	3/29/2006	X	1				X	1				5:40 AM	6:06 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
89	2005-06	2006	3	5	3/30/2006	X	1				X	1				5:39 AM	6:07 PM	5:15 AM	5:39 AM	7:00 AM	1:21:00
90	2005-06	2006	3	6	3/31/2006	X	1				X	1				5:38 AM	6:08 PM	5:15 AM	5:38 AM	7:00 AM	1:22:00
91	2005-06	2006	4	7	4/1/2006	WE		1			WE		1			5:36 AM	6:08 PM	5:15 AM	5:36 AM	7:00 AM	1:24:00
92	2005-06	2006	4	1	4/2/2006	WE		1			WE		1			6:35 AM	7:09 PM	5:15 AM	6:35 AM	7:00 AM	0:25:00
93	2005-06	2006	4	2	4/3/2006	X	1				X	1				6:34 AM	7:10 PM	5:15 AM	6:34 AM	7:00 AM	0:26:00
94	2005-06	2006	4	3	4/4/2006	X	1				X	1				6:32 AM	7:10 PM	5:15 AM	6:32 AM	7:00 AM	0:28:00
95	2005-06	2006	4	4	4/5/2006	X	1				X	1				6:31 AM	7:11 PM	5:15 AM	6:31 AM	7:00 AM	0:29:00
96	2005-06	2006	4	5	4/6/2006	X	1				BR			1		6:30 AM	7:12 PM	5:15 AM	6:30 AM	7:00 AM	0:30:00
97	2005-06	2006	4	6	4/7/2006	X	1				BR			1		6:28 AM	7:13 PM	5:15 AM	6:28 AM	7:00 AM	0:32:00
98	2005-06	2006	4	7	4/8/2006	WE		1			WE		1			6:27 AM	7:13 PM	5:15 AM	6:27 AM	7:00 AM	0:33:00
99	2005-06	2006	4	1	4/9/2006	WE		1			WE		1			6:26 AM	7:14 PM	5:15 AM	6:26 AM	7:00 AM	0:34:00
100	2005-06	2006	4	2	4/10/2006	H			1		BR			1		6:25 AM	7:15 PM	5:15 AM	6:25 AM	7:00 AM	0:35:00
101	2005-06	2006	4	3	4/11/2006	H			1		BR			1		6:23 AM	7:15 PM	5:15 AM	6:23 AM	7:00 AM	0:37:00
102	2005-06	2006	4	4	4/12/2006	H			1		BR			1		6:22 AM	7:16 PM	5:15 AM	6:22 AM	7:00 AM	0:38:00
103	2005-06	2006	4	5	4/13/2006	H			1		BR			1		6:21 AM	7:17 PM	5:15 AM	6:21 AM	7:00 AM	0:39:00
104	2005-06	2006	4	6	4/14/2006	H			1		BR			1		6:20 AM	7:18 PM	5:15 AM	6:20 AM	7:00 AM	0:40:00
105	2005-06	2006	4	7	4/15/2006	WE		1			WE		1			6:19 AM	7:18 PM	5:15 AM	6:19 AM	7:00 AM	0:41:00
106	2005-06	2006	4	1	4/16/2006	WE		1			WE		1			6:17 AM	7:19 PM	5:15 AM	6:17 AM	7:00 AM	0:43:00
107	2005-06	2006	4	2	4/17/2006	X	1				BR			1		6:16 AM	7:20 PM	5:15 AM	6:16 AM	7:00 AM	0:44:00
108	2005-06	2006	4	3	4/18/2006	X	1				BR			1		6:15 AM	7:20 PM	5:15 AM	6:15 AM	7:00 AM	0:45:00
109	2005-06	2006	4	4	4/19/2006	X	1				BR			1		6:14 AM	7:21 PM	5:15 AM	6:14 AM	7:00 AM	0:46:00
110	2005-06	2006	4	5	4/20/2006	X	1				BR			1		6:13 AM	7:22 PM	5:15 AM	6:13 AM	7:00 AM	0:47:00
111	2005-06	2006	4	6	4/21/2006	X	1				BR			1		6:12 AM	7:23 PM	5:15 AM	6:12 AM	7:00 AM	0:48:00
112	2005-06	2006	4	7	4/22/2006	WE		1			WE		1			6:11 AM	7:23 PM	5:15 AM	6:11 AM	7:00 AM	0:49:00
113	2005-06	2006	4	1	4/23/2006	WE		1			WE		1			6:09 AM	7:24 PM	5:15 AM	6:09 AM	7:00 AM	0:51:00
114	2005-06	2006	4	2	4/24/2006	X	1				BR			1		6:08 AM	7:25 PM	5:15 AM	6:08 AM	7:00 AM	0:52:00
115	2005-06	2006	4	3	4/25/2006	X	1				BR			1		6:07 AM	7:25 PM	5:15 AM	6:07 AM	7:00 AM	0:53:00
116	2005-06	2006	4	4	4/26/2006	X	1				BR			1		6:06 AM	7:26 PM	5:15 AM	6:06 AM	7:00 AM	0:54:00
117	2005-06	2006	4	5	4/27/2006	X	1				BR			1		6:05 AM	7:27 PM	5:15 AM	6:05 AM	7:00 AM	0:55:00
118	2005-06	2006	4	6	4/28/2006	X	1				BR			1		6:04 AM	7:28 PM	5:15 AM	6:04 AM	7:00 AM	0:56:00
119	2005-06	2006	4	7	4/29/2006	WE		1			WE		1			6:03 AM	7:28 PM	5:15 AM	6:03 AM	7:00 AM	0:57:00
120	2005-06	2006	4	1	4/30/2006	WE		1			WE		1			6:02 AM	7:29 PM	5:15 AM	6:02 AM	7:00 AM	0:58:00
121	2005-06	2006	5	2	5/1/2006	X	1				X	1				6:01 AM	7:30 PM	5:15 AM	6:01 AM	7:00 AM	0:59:00
122	2005-06	2006	5	3	5/2/2006	X	1				X	1				6:00 AM	7:30 PM	5:15 AM	6:00 AM	7:00 AM	1:00:00
123	2005-06	2006	5	4	5/3/2006	X	1				X	1				5:59 AM	7:31 PM	5:15 AM	5:59 AM	7:00 AM	1:01:00
124	2005-06	2006	5	5	5/4/2006	X	1				X	1				5:58 AM	7:32 PM	5:15 AM	5:58 AM	7:00 AM	1:02:00
125	2005-06	2006	5	6	5/5/2006	X	1				X	1				5:57 AM	7:33 PM	5:15 AM	5:57 AM	7:00 AM	1:03:00
126	2005-06	2006	5	7	5/6/2006	WE		1			WE		1			5:56 AM	7:33 PM	5:15 AM	5:56 AM	7:00 AM	1:04:00
127	2005-06	2006	5	1	5/7/2006	WE		1			WE		1			5:56 AM	7:34 PM	5:15 AM	5:56 AM	7:00 AM	1:04:00
128	2005-06	2006	5	2	5/8/2006	X	1				X	1				5:55 AM	7:35 PM	5:15 AM	5:55 AM	7:00 AM	1:05:00
129	2005-06	2006	5	3	5/9/2006	X	1				X	1				5:54 AM	7:36 PM	5:15 AM	5:54 AM	7:00 AM	1:06:00
130	2005-06	2006	5	4	5/10/2006	X	1				X	1				5:53 AM	7:36 PM	5:15 AM	5:53 AM	7:00 AM	1:07:00
131	2005-06	2006	5	5	5/11/2006	X	1				X	1				5:52 AM	7:37 PM	5:15 AM	5:52 AM	7:00 AM	1:08:00
132	2005-06	2006	5	6	5/12/2006	X	1				X	1				5:52 AM	7:38 PM	5:15 AM	5:52 AM	7:00 AM	1:08:00
133	2005-06	2006	5	7	5/13/2006	WE		1			WE		1			5:51 AM	7:39 PM	5:15 AM	5:51 AM	7:00 AM	1:09:00
134	2005-06	2006	5	1	5/14/2006	WE		1			WE		1			5:50 AM	7:39 PM	5:15 AM	5:50 AM	7:00 AM	1:10:00
135	2005-06	2006	5	2	5/15/2006	X	1				X	1				5:49 AM	7:40 PM	5:15 AM	5:49 AM	7:00 AM	1:11:00
136	2005-06	2006	5	3	5/16/2006	X	1				X	1				5:49 AM	7:41 PM	5:15 AM	5:49 AM	7:00 AM	1:11:00
137	2005-06	2006	5	4	5/17/2006	X	1				X	1				5:48 AM	7:41 PM	5:15 AM	5:48 AM	7:00 AM	1:12:00
138	2005-06	2006	5	5	5/18/2006	X	1				X	1				5:47 AM	7:42 PM	5:15 AM	5:47 AM	7:00 AM	1:13:00
139	2005-06	2006	5	6	5/19/2006	X	1				X	1				5:47 AM	7:43 PM	5:15 AM	5:47 AM	7:00 AM	1:13:00
140	2005-06	2006	5	7	5/20/2006	WE		1			WE		1			5:46 AM	7:44 PM	5:15 AM	5:46 AM	7:00 AM	1:14:00

Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	Sunset	PM Beg	PM Beg On-time	PM Off-Time	PM Time Savings	Controlled On-Hours AM	Controlled On-Hours PM	Controlled On-Hours Total	Basecase On-Hours AM	Basecase On-Hours PM	Basecase On-Hours Total	Traditional Controlled Hours	Year Round Controlled Hours
71	5:54 PM	5:00 PM	5:54 PM	11:00 PM	0:54:00	0:47:00	5:06:00	5:53:00	1:45:00	6:00:00	7:45:00		
72	5:55 PM	5:00 PM	5:55 PM	11:00 PM	0:55:00	0:46:00	5:05:00	5:51:00	1:45:00	6:00:00	7:45:00	5:51:00	6:00:00
73	5:55 PM	5:00 PM	5:55 PM	11:00 PM	0:55:00	0:45:00	5:05:00	5:50:00	1:45:00	6:00:00	7:45:00	5:50:00	6:00:00
74	5:56 PM	5:00 PM	5:56 PM	11:00 PM	0:56:00	0:43:00	5:04:00	5:47:00	1:45:00	6:00:00	7:45:00	5:47:00	6:00:00
75	5:57 PM	5:00 PM	5:57 PM	11:00 PM	0:57:00	0:42:00	5:03:00	5:45:00	1:45:00	6:00:00	7:45:00	5:45:00	6:00:00
76	5:58 PM	5:00 PM	5:58 PM	11:00 PM	0:58:00	0:41:00	5:02:00	5:43:00	1:45:00	6:00:00	7:45:00	5:43:00	6:00:00
77	5:58 PM	5:00 PM	5:58 PM	11:00 PM	0:58:00	0:40:00	5:02:00	5:42:00	1:45:00	6:00:00	7:45:00		
78	5:59 PM	5:00 PM	5:59 PM	11:00 PM	0:59:00	0:38:00	5:01:00	5:39:00	1:45:00	6:00:00	7:45:00		
79	6:00 PM	5:00 PM	6:00 PM	11:00 PM	1:00:00	0:37:00	5:00:00	5:37:00	1:45:00	6:00:00	7:45:00	5:37:00	6:00:00
80	6:01 PM	5:00 PM	6:01 PM	11:00 PM	1:01:00	0:36:00	4:59:00	5:35:00	1:45:00	6:00:00	7:45:00	5:35:00	6:00:00
81	6:01 PM	5:00 PM	6:01 PM	11:00 PM	1:01:00	0:34:00	4:59:00	5:33:00	1:45:00	6:00:00	7:45:00	5:33:00	6:00:00
82	6:02 PM	5:00 PM	6:02 PM	11:00 PM	1:02:00	0:33:00	4:58:00	5:31:00	1:45:00	6:00:00	7:45:00	5:31:00	6:00:00
83	6:03 PM	5:00 PM	6:03 PM	11:00 PM	1:03:00	0:32:00	4:57:00	5:29:00	1:45:00	6:00:00	7:45:00	5:29:00	6:00:00
84	6:03 PM	5:00 PM	6:03 PM	11:00 PM	1:03:00	0:30:00	4:57:00	5:27:00	1:45:00	6:00:00	7:45:00		
85	6:04 PM	5:00 PM	6:04 PM	11:00 PM	1:04:00	0:29:00	4:56:00	5:25:00	1:45:00	6:00:00	7:45:00		
86	6:05 PM	5:00 PM	6:05 PM	11:00 PM	1:05:00	0:28:00	4:55:00	5:23:00	1:45:00	6:00:00	7:45:00	5:23:00	6:00:00
87	6:06 PM	5:00 PM	6:06 PM	11:00 PM	1:06:00	0:26:00	4:54:00	5:20:00	1:45:00	6:00:00	7:45:00	5:20:00	6:00:00
88	6:06 PM	5:00 PM	6:06 PM	11:00 PM	1:06:00	0:25:00	4:54:00	5:19:00	1:45:00	6:00:00	7:45:00	5:19:00	6:00:00
89	6:07 PM	5:00 PM	6:07 PM	11:00 PM	1:07:00	0:24:00	4:53:00	5:17:00	1:45:00	6:00:00	7:45:00	5:17:00	6:00:00
90	6:08 PM	5:00 PM	6:08 PM	11:00 PM	1:08:00	0:23:00	4:52:00	5:15:00	1:45:00	6:00:00	7:45:00	5:15:00	6:00:00
91	6:08 PM	5:00 PM	6:08 PM	11:00 PM	1:08:00	0:21:00	4:52:00	5:13:00	1:45:00	6:00:00	7:45:00		
92	7:09 PM	5:00 PM	7:09 PM	11:00 PM	2:09:00	1:20:00	3:51:00	5:11:00	1:45:00	6:00:00	7:45:00		
93	7:10 PM	5:00 PM	7:10 PM	11:00 PM	2:10:00	1:19:00	3:50:00	5:09:00	1:45:00	6:00:00	7:45:00	5:09:00	6:00:00
94	7:10 PM	5:00 PM	7:10 PM	11:00 PM	2:10:00	1:17:00	3:50:00	5:07:00	1:45:00	6:00:00	7:45:00	5:07:00	6:00:00
95	7:11 PM	5:00 PM	7:11 PM	11:00 PM	2:11:00	1:16:00	3:49:00	5:05:00	1:45:00	6:00:00	7:45:00	5:05:00	6:00:00
96	7:12 PM	5:00 PM	7:12 PM	11:00 PM	2:12:00	1:15:00	3:48:00	5:03:00	1:45:00	6:00:00	7:45:00	5:03:00	
97	7:13 PM	5:00 PM	7:13 PM	11:00 PM	2:13:00	1:13:00	3:47:00	5:00:00	1:45:00	6:00:00	7:45:00	5:00:00	
98	7:13 PM	5:00 PM	7:13 PM	11:00 PM	2:13:00	1:12:00	3:47:00	4:59:00	1:45:00	6:00:00	7:45:00		
99	7:14 PM	5:00 PM	7:14 PM	11:00 PM	2:14:00	1:11:00	3:46:00	4:57:00	1:45:00	6:00:00	7:45:00		
100	7:15 PM	5:00 PM	7:15 PM	11:00 PM	2:15:00	1:10:00	3:45:00	4:55:00	1:45:00	6:00:00	7:45:00		
101	7:15 PM	5:00 PM	7:15 PM	11:00 PM	2:15:00	1:08:00	3:45:00	4:53:00	1:45:00	6:00:00	7:45:00		
102	7:16 PM	5:00 PM	7:16 PM	11:00 PM	2:16:00	1:07:00	3:44:00	4:51:00	1:45:00	6:00:00	7:45:00		
103	7:17 PM	5:00 PM	7:17 PM	11:00 PM	2:17:00	1:06:00	3:43:00	4:49:00	1:45:00	6:00:00	7:45:00		
104	7:18 PM	5:00 PM	7:18 PM	11:00 PM	2:18:00	1:05:00	3:42:00	4:47:00	1:45:00	6:00:00	7:45:00		
105	7:18 PM	5:00 PM	7:18 PM	11:00 PM	2:18:00	1:04:00	3:42:00	4:46:00	1:45:00	6:00:00	7:45:00		
106	7:19 PM	5:00 PM	7:19 PM	11:00 PM	2:19:00	1:02:00	3:41:00	4:43:00	1:45:00	6:00:00	7:45:00		
107	7:20 PM	5:00 PM	7:20 PM	11:00 PM	2:20:00	1:01:00	3:40:00	4:41:00	1:45:00	6:00:00	7:45:00	4:41:00	
108	7:20 PM	5:00 PM	7:20 PM	11:00 PM	2:20:00	1:00:00	3:40:00	4:40:00	1:45:00	6:00:00	7:45:00	4:40:00	
109	7:21 PM	5:00 PM	7:21 PM	11:00 PM	2:21:00	0:59:00	3:39:00	4:38:00	1:45:00	6:00:00	7:45:00	4:38:00	
110	7:22 PM	5:00 PM	7:22 PM	11:00 PM	2:22:00	0:58:00	3:38:00	4:36:00	1:45:00	6:00:00	7:45:00	4:36:00	
111	7:23 PM	5:00 PM	7:23 PM	11:00 PM	2:23:00	0:57:00	3:37:00	4:34:00	1:45:00	6:00:00	7:45:00	4:34:00	
112	7:23 PM	5:00 PM	7:23 PM	11:00 PM	2:23:00	0:56:00	3:37:00	4:33:00	1:45:00	6:00:00	7:45:00		
113	7:24 PM	5:00 PM	7:24 PM	11:00 PM	2:24:00	0:54:00	3:36:00	4:30:00	1:45:00	6:00:00	7:45:00		
114	7:25 PM	5:00 PM	7:25 PM	11:00 PM	2:25:00	0:53:00	3:35:00	4:28:00	1:45:00	6:00:00	7:45:00	4:28:00	
115	7:25 PM	5:00 PM	7:25 PM	11:00 PM	2:25:00	0:52:00	3:35:00	4:27:00	1:45:00	6:00:00	7:45:00	4:27:00	
116	7:26 PM	5:00 PM	7:26 PM	11:00 PM	2:26:00	0:51:00	3:34:00	4:25:00	1:45:00	6:00:00	7:45:00	4:25:00	
117	7:27 PM	5:00 PM	7:27 PM	11:00 PM	2:27:00	0:50:00	3:33:00	4:23:00	1:45:00	6:00:00	7:45:00	4:23:00	
118	7:28 PM	5:00 PM	7:28 PM	11:00 PM	2:28:00	0:49:00	3:32:00	4:21:00	1:45:00	6:00:00	7:45:00	4:21:00	
119	7:28 PM	5:00 PM	7:28 PM	11:00 PM	2:28:00	0:48:00	3:32:00	4:20:00	1:45:00	6:00:00	7:45:00		
120	7:29 PM	5:00 PM	7:29 PM	11:00 PM	2:29:00	0:47:00	3:31:00	4:18:00	1:45:00	6:00:00	7:45:00		
121	7:30 PM	5:00 PM	7:30 PM	11:00 PM	2:30:00	0:46:00	3:30:00	4:16:00	1:45:00	6:00:00	7:45:00	4:16:00	6:00:00
122	7:30 PM	5:00 PM	7:30 PM	11:00 PM	2:30:00	0:45:00	3:30:00	4:15:00	1:45:00	6:00:00	7:45:00	4:15:00	6:00:00
123	7:31 PM	5:00 PM	7:31 PM	11:00 PM	2:31:00	0:44:00	3:29:00	4:13:00	1:45:00	6:00:00	7:45:00	4:13:00	6:00:00
124	7:32 PM	5:00 PM	7:32 PM	11:00 PM	2:32:00	0:43:00	3:28:00	4:11:00	1:45:00	6:00:00	7:45:00	4:11:00	6:00:00
125	7:33 PM	5:00 PM	7:33 PM	11:00 PM	2:33:00	0:42:00	3:27:00	4:09:00	1:45:00	6:00:00	7:45:00	4:09:00	6:00:00
126	7:33 PM	5:00 PM	7:33 PM	11:00 PM	2:33:00	0:41:00	3:27:00	4:08:00	1:45:00	6:00:00	7:45:00		
127	7:34 PM	5:00 PM	7:34 PM	11:00 PM	2:34:00	0:41:00	3:26:00	4:07:00	1:45:00	6:00:00	7:45:00		
128	7:35 PM	5:00 PM	7:35 PM	11:00 PM	2:35:00	0:40:00	3:25:00	4:05:00	1:45:00	6:00:00	7:45:00	4:05:00	6:00:00
129	7:36 PM	5:00 PM	7:36 PM	11:00 PM	2:36:00	0:39:00	3:24:00	4:03:00	1:45:00	6:00:00	7:45:00	4:03:00	6:00:00
130	7:36 PM	5:00 PM	7:36 PM	11:00 PM	2:36:00	0:38:00	3:24:00	4:02:00	1:45:00	6:00:00	7:45:00	4:02:00	6:00:00
131	7:37 PM	5:00 PM	7:37 PM	11:00 PM	2:37:00	0:37:00	3:23:00	4:00:00	1:45:00	6:00:00	7:45:00	4:00:00	6:00:00
132	7:38 PM	5:00 PM	7:38 PM	11:00 PM	2:38:00	0:37:00	3:22:00	3:59:00	1:45:00	6:00:00	7:45:00	3:59:00	6:00:00
133	7:39 PM	5:00 PM	7:39 PM	11:00 PM	2:39:00	0:36:00	3:21:00	3:57:00	1:45:00	6:00:00	7:45:00		
134	7:39 PM	5:00 PM	7:39 PM	11:00 PM	2:39:00	0:35:00	3:21:00	3:56:00	1:45:00	6:00:00	7:45:00		
135	7:40 PM	5:00 PM	7:40 PM	11:00 PM	2:40:00	0:34:00	3:20:00	3:54:00	1:45:00	6:00:00	7:45:00	3:54:00	6:00:00
136	7:41 PM	5:00 PM	7:41 PM	11:00 PM	2:41:00	0:34:00	3:19:00	3:53:00	1:45:00	6:00:00	7:45:00	3:53:00	6:00:00
137	7:41 PM	5:00 PM	7:41 PM	11:00 PM	2:41:00	0:33:00	3:19:00	3:52:00	1:45:00	6:00:00	7:45:00	3:52:00	6:00:00
138	7:42 PM	5:00 PM	7:42 PM	11:00 PM	2:42:00	0:32:00	3:18:00	3:50:00	1:45:00	6:00:00	7:45:00	3:50:00	6:00:00
139	7:43 PM	5:00 PM	7:43 PM	11:00 PM	2:43:00	0:32:00	3:17:00	3:49:00	1:45:00	6:00:00	7:45:00	3:49:00	6:00:00
140	7:44 PM	5:00 PM	7:44 PM	11:00 PM	2:44:00	0:31:00	3:16:00	3:47:00	1:45:00	6:00:00	7:45:00		

Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	School Year	Year	Mon	DOW	Date	Day type (REG)	CONT RACT DAY (REG)	Weekend Days	Holidays (REG)	Breaks (REG)	Day type Yearround	CONTR ACT DAYS YEAR ROUND	Weekend Days	Holidays (Year Round)	Breaks (Year round)	Sunrise	Sunset	AM Beg-time	AM Off-time	AM Timer Off-time	AM Time Savings
141	2005-06	2006	5	1	5/21/2006	WE		1			WE		1			5:46 AM	7:44 PM	5:15 AM	5:46 AM	7:00 AM	1:14:00
142	2005-06	2006	5	2	5/22/2006	X	1				X	1				5:45 AM	7:45 PM	5:15 AM	5:45 AM	7:00 AM	1:15:00
143	2005-06	2006	5	3	5/23/2006	X	1				X	1				5:45 AM	7:46 PM	5:15 AM	5:45 AM	7:00 AM	1:15:00
144	2005-06	2006	5	4	5/24/2006	X	1				X	1				5:44 AM	7:46 PM	5:15 AM	5:44 AM	7:00 AM	1:16:00
145	2005-06	2006	5	5	5/25/2006	X	1				X	1				5:44 AM	7:47 PM	5:15 AM	5:44 AM	7:00 AM	1:16:00
146	2005-06	2006	5	6	5/26/2006	X	1				X	1				5:43 AM	7:48 PM	5:15 AM	5:43 AM	7:00 AM	1:17:00
147	2005-06	2006	5	7	5/27/2006	WE		1			WE		1			5:43 AM	7:48 PM	5:15 AM	5:43 AM	7:00 AM	1:17:00
148	2005-06	2006	5	1	5/28/2006	WE		1			WE		1			5:42 AM	7:49 PM	5:15 AM	5:42 AM	7:00 AM	1:18:00
149	2005-06	2006	5	2	5/29/2006	H			1		H			1		5:42 AM	7:49 PM	5:15 AM	5:42 AM	7:00 AM	1:18:00
150	2005-06	2006	5	3	5/30/2006	X	1				X	1				5:42 AM	7:50 PM	5:15 AM	5:42 AM	7:00 AM	1:18:00
151	2005-06	2006	5	4	5/31/2006	X	1				X	1				5:41 AM	7:51 PM	5:15 AM	5:41 AM	7:00 AM	1:19:00
152	2005-06	2006	6	5	6/1/2006	X	1				X	1				5:41 AM	7:51 PM	5:15 AM	5:41 AM	7:00 AM	1:19:00
153	2005-06	2006	6	6	6/2/2006	X	1				X	1				5:41 AM	7:52 PM	5:15 AM	5:41 AM	7:00 AM	1:19:00
154	2005-06	2006	6	7	6/3/2006	WE		1			WE		1			5:41 AM	7:52 PM	5:15 AM	5:41 AM	7:00 AM	1:19:00
155	2005-06	2006	6	1	6/4/2006	WE		1			WE		1			5:40 AM	7:53 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
156	2005-06	2006	6	2	6/5/2006	X	1				X	1				5:40 AM	7:53 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
157	2005-06	2006	6	3	6/6/2006	X	1				X	1				5:40 AM	7:54 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
158	2005-06	2006	6	4	6/7/2006	X	1				X	1				5:40 AM	7:54 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
159	2005-06	2006	6	5	6/8/2006	X	1				X	1				5:40 AM	7:55 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
160	2005-06	2006	6	6	6/9/2006	X	1				X	1				5:40 AM	7:55 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
161	2005-06	2006	6	7	6/10/2006	WE		1			WE		1			5:40 AM	7:56 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
162	2005-06	2006	6	1	6/11/2006	WE		1			WE		1			5:40 AM	7:56 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
163	2005-06	2006	6	2	6/12/2006	X	1				X	1				5:40 AM	7:57 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
164	2005-06	2006	6	3	6/13/2006	X	1				X	1				5:40 AM	7:57 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
165	2005-06	2006	6	4	6/14/2006	X	1				X	1				5:40 AM	7:57 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
166	2005-06	2006	6	5	6/15/2006	X	1				X	1				5:40 AM	7:58 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
167	2005-06	2006	6	6	6/16/2006	X	1				X	1				5:40 AM	7:58 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
168	2005-06	2006	6	7	6/17/2006	WE		1			WE		1			5:40 AM	7:58 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
169	2005-06	2006	6	1	6/18/2006	WE		1			WE		1			5:40 AM	7:59 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
170	2005-06	2006	6	2	6/19/2006	X	1				X	1				5:40 AM	7:59 PM	5:15 AM	5:40 AM	7:00 AM	1:20:00
171	2005-06	2006	6	3	6/20/2006	X	1				X	1				5:41 AM	7:59 PM	5:15 AM	5:41 AM	7:00 AM	1:19:00
172	2005-06	2006	6	4	6/21/2006	X	1				X	1				5:41 AM	7:59 PM	5:15 AM	5:41 AM	7:00 AM	1:19:00
173	2005-06	2006	6	5	6/22/2006	SUM				1	X	1				5:41 AM	7:59 PM	5:15 AM	5:41 AM	7:00 AM	1:19:00
174	2005-06	2006	6	6	6/23/2006	SUM				1	X	1				5:41 AM	8:00 PM	5:15 AM	5:41 AM	7:00 AM	1:19:00
175	2005-06	2006	6	7	6/24/2006	WE		1			WE		1			5:42 AM	8:00 PM	5:15 AM	5:42 AM	7:00 AM	1:18:00
176	2005-06	2006	6	1	6/25/2006	WE		1			WE		1			5:42 AM	8:00 PM	5:15 AM	5:42 AM	7:00 AM	1:18:00
177	2005-06	2006	6	2	6/26/2006	SUM					X	1				5:42 AM	8:00 PM	5:15 AM	5:42 AM	7:00 AM	1:18:00
178	2005-06	2006	6	3	6/27/2006	SUM					X	1				5:42 AM	8:00 PM	5:15 AM	5:42 AM	7:00 AM	1:18:00
179	2005-06	2006	6	4	6/28/2006	SUM					X	1				5:43 AM	8:00 PM	5:15 AM	5:43 AM	7:00 AM	1:17:00
180	2005-06	2006	6	5	6/29/2006	SUM					X	1				5:43 AM	8:00 PM	5:15 AM	5:43 AM	7:00 AM	1:17:00
181	2005-06	2006	6	6	6/30/2006	SUM					X	1				5:44 AM	8:00 PM	5:15 AM	5:44 AM	7:00 AM	1:16:00
182	2006-07	2006	7	7	7/1/2006	WE		1			WE		1			5:44 AM	8:00 PM	5:15 AM	5:44 AM	7:00 AM	1:16:00
183	2006-07	2006	7	1	7/2/2006	WE		1			WE		1			5:44 AM	8:00 PM	5:15 AM	5:44 AM	7:00 AM	1:16:00
184	2006-07	2006	7	2	7/3/2006	SUM				1	X	1				5:45 AM	8:00 PM	5:15 AM	5:45 AM	7:00 AM	1:15:00
185	2006-07	2006	7	3	7/4/2006	H			1		H			1		5:45 AM	8:00 PM	5:15 AM	5:45 AM	7:00 AM	1:15:00
186	2006-07	2006	7	4	7/5/2006	SUM					X	1				5:46 AM	8:00 PM	5:15 AM	5:46 AM	7:00 AM	1:14:00
187	2006-07	2006	7	5	7/6/2006	SUM					X	1				5:46 AM	8:00 PM	5:15 AM	5:46 AM	7:00 AM	1:14:00
188	2006-07	2006	7	6	7/7/2006	SUM					X	1				5:47 AM	7:59 PM	5:15 AM	5:47 AM	7:00 AM	1:13:00
189	2006-07	2006	7	7	7/8/2006	WE		1			WE		1			5:47 AM	7:59 PM	5:15 AM	5:47 AM	7:00 AM	1:13:00
190	2006-07	2006	7	1	7/9/2006	WE		1			WE		1			5:48 AM	7:59 PM	5:15 AM	5:48 AM	7:00 AM	1:12:00
191	2006-07	2006	7	2	7/10/2006	SUM					X	1				5:48 AM	7:59 PM	5:15 AM	5:48 AM	7:00 AM	1:12:00
192	2006-07	2006	7	3	7/11/2006	SUM					X	1				5:49 AM	7:58 PM	5:15 AM	5:49 AM	7:00 AM	1:11:00
193	2006-07	2006	7	4	7/12/2006	SUM					X	1				5:49 AM	7:58 PM	5:15 AM	5:49 AM	7:00 AM	1:11:00
194	2006-07	2006	7	5	7/13/2006	SUM					X	1				5:50 AM	7:58 PM	5:15 AM	5:50 AM	7:00 AM	1:10:00
195	2006-07	2006	7	6	7/14/2006	SUM					X	1				5:51 AM	7:57 PM	5:15 AM	5:51 AM	7:00 AM	1:09:00
196	2006-07	2006	7	7	7/15/2006	WE		1			WE		1			5:51 AM	7:57 PM	5:15 AM	5:51 AM	7:00 AM	1:09:00
197	2006-07	2006	7	1	7/16/2006	WE		1			WE		1			5:52 AM	7:56 PM	5:15 AM	5:52 AM	7:00 AM	1:08:00
198	2006-07	2006	7	2	7/17/2006	SUM					X	1				5:52 AM	7:56 PM	5:15 AM	5:52 AM	7:00 AM	1:08:00
199	2006-07	2006	7	3	7/18/2006	SUM					X	1				5:53 AM	7:56 PM	5:15 AM	5:53 AM	7:00 AM	1:07:00
200	2006-07	2006	7	4	7/19/2006	SUM					X	1				5:54 AM	7:55 PM	5:15 AM	5:54 AM	7:00 AM	1:06:00
201	2006-07	2006	7	5	7/20/2006	SUM					X	1				5:54 AM	7:55 PM	5:15 AM	5:54 AM	7:00 AM	1:06:00
202	2006-07	2006	7	6	7/21/2006	SUM					X	1				5:55 AM	7:54 PM	5:15 AM	5:55 AM	7:00 AM	1:05:00
203	2006-07	2006	7	7	7/22/2006	WE		1			WE		1			5:55 AM	7:53 PM	5:15 AM	5:55 AM	7:00 AM	1:05:00
204	2006-07	2006	7	1	7/23/2006	WE		1			WE		1			5:56 AM	7:53 PM	5:15 AM	5:56 AM	7:00 AM	1:04:00
205	2006-07	2006	7	2	7/24/2006	SUM					SUM			1		5:57 AM	7:52 PM	5:15 AM	5:57 AM	7:00 AM	1:03:00
206	2006-07	2006	7	3	7/25/2006	SUM					SUM			1		5:57 AM	7:52 PM	5:15 AM	5:57 AM	7:00 AM	1:03:00
207	2006-07	2006	7	4	7/26/2006	SUM					SUM			1		5:58 AM	7:51 PM	5:15 AM	5:58 AM	7:00 AM	1:02:00
208	2006-07	2006	7	5	7/27/2006	SUM					SUM			1		5:59 AM	7:50 PM	5:15 AM	5:59 AM	7:00 AM	1:01:00
209	2006-07	2006	7	6	7/28/2006	SUM					SUM			1		5:59 AM	7:49 PM	5:15 AM	5:59 AM	7:00 AM	1:01:00
210	2006-07	2006	7	7	7/29/2006	WE		1			WE		1			6:00 AM	7:49 PM	5:15 AM	6:00 AM	7:00 AM	1:00:00

Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	Sunset	PM Beg	PM Beg On-time	PM Off-Time	PM Time Savings	Controlled On-Hours AM	Controlled On-Hours PM	Controlled On-Hours Total	Basecase On-Hours AM	Basecase On-Hours PM	Basecase On-Hours Total	Traditional Controlled Hours	Year Round Controlled Hours
141	7:44 PM	5:00 PM	7:44 PM	11:00 PM	2:44:00	0:31:00	3:16:00	3:47:00	1:45:00	6:00:00	7:45:00		
142	7:45 PM	5:00 PM	7:45 PM	11:00 PM	2:45:00	0:30:00	3:15:00	3:45:00	1:45:00	6:00:00	7:45:00	3:45:00	6:00:00
143	7:46 PM	5:00 PM	7:46 PM	11:00 PM	2:46:00	0:30:00	3:14:00	3:44:00	1:45:00	6:00:00	7:45:00	3:44:00	6:00:00
144	7:46 PM	5:00 PM	7:46 PM	11:00 PM	2:46:00	0:29:00	3:14:00	3:43:00	1:45:00	6:00:00	7:45:00	3:43:00	6:00:00
145	7:47 PM	5:00 PM	7:47 PM	11:00 PM	2:47:00	0:29:00	3:13:00	3:42:00	1:45:00	6:00:00	7:45:00	3:42:00	6:00:00
146	7:48 PM	5:00 PM	7:48 PM	11:00 PM	2:48:00	0:28:00	3:12:00	3:40:00	1:45:00	6:00:00	7:45:00	3:40:00	6:00:00
147	7:48 PM	5:00 PM	7:48 PM	11:00 PM	2:48:00	0:28:00	3:12:00	3:40:00	1:45:00	6:00:00	7:45:00		
148	7:49 PM	5:00 PM	7:49 PM	11:00 PM	2:49:00	0:27:00	3:11:00	3:38:00	1:45:00	6:00:00	7:45:00		
149	7:49 PM	5:00 PM	7:49 PM	11:00 PM	2:49:00	0:27:00	3:11:00	3:38:00	1:45:00	6:00:00	7:45:00		
150	7:50 PM	5:00 PM	7:50 PM	11:00 PM	2:50:00	0:27:00	3:10:00	3:37:00	1:45:00	6:00:00	7:45:00	3:37:00	6:00:00
151	7:51 PM	5:00 PM	7:51 PM	11:00 PM	2:51:00	0:26:00	3:09:00	3:35:00	1:45:00	6:00:00	7:45:00	3:35:00	6:00:00
152	7:51 PM	5:00 PM	7:51 PM	11:00 PM	2:51:00	0:26:00	3:09:00	3:35:00	1:45:00	6:00:00	7:45:00	3:35:00	6:00:00
153	7:52 PM	5:00 PM	7:52 PM	11:00 PM	2:52:00	0:26:00	3:08:00	3:34:00	1:45:00	6:00:00	7:45:00	3:34:00	6:00:00
154	7:52 PM	5:00 PM	7:52 PM	11:00 PM	2:52:00	0:26:00	3:08:00	3:34:00	1:45:00	6:00:00	7:45:00		
155	7:53 PM	5:00 PM	7:53 PM	11:00 PM	2:53:00	0:25:00	3:07:00	3:32:00	1:45:00	6:00:00	7:45:00		
156	7:53 PM	5:00 PM	7:53 PM	11:00 PM	2:53:00	0:25:00	3:07:00	3:32:00	1:45:00	6:00:00	7:45:00	3:32:00	6:00:00
157	7:54 PM	5:00 PM	7:54 PM	11:00 PM	2:54:00	0:25:00	3:06:00	3:31:00	1:45:00	6:00:00	7:45:00	3:31:00	6:00:00
158	7:54 PM	5:00 PM	7:54 PM	11:00 PM	2:54:00	0:25:00	3:06:00	3:31:00	1:45:00	6:00:00	7:45:00	3:31:00	6:00:00
159	7:55 PM	5:00 PM	7:55 PM	11:00 PM	2:55:00	0:25:00	3:05:00	3:30:00	1:45:00	6:00:00	7:45:00	3:30:00	6:00:00
160	7:55 PM	5:00 PM	7:55 PM	11:00 PM	2:55:00	0:25:00	3:05:00	3:30:00	1:45:00	6:00:00	7:45:00	3:30:00	6:00:00
161	7:56 PM	5:00 PM	7:56 PM	11:00 PM	2:56:00	0:25:00	3:04:00	3:29:00	1:45:00	6:00:00	7:45:00		
162	7:56 PM	5:00 PM	7:56 PM	11:00 PM	2:56:00	0:25:00	3:04:00	3:29:00	1:45:00	6:00:00	7:45:00		
163	7:57 PM	5:00 PM	7:57 PM	11:00 PM	2:57:00	0:25:00	3:03:00	3:28:00	1:45:00	6:00:00	7:45:00	3:28:00	6:00:00
164	7:57 PM	5:00 PM	7:57 PM	11:00 PM	2:57:00	0:25:00	3:03:00	3:28:00	1:45:00	6:00:00	7:45:00	3:28:00	6:00:00
165	7:57 PM	5:00 PM	7:57 PM	11:00 PM	2:57:00	0:25:00	3:03:00	3:28:00	1:45:00	6:00:00	7:45:00	3:28:00	6:00:00
166	7:58 PM	5:00 PM	7:58 PM	11:00 PM	2:58:00	0:25:00	3:02:00	3:27:00	1:45:00	6:00:00	7:45:00	3:27:00	6:00:00
167	7:58 PM	5:00 PM	7:58 PM	11:00 PM	2:58:00	0:25:00	3:02:00	3:27:00	1:45:00	6:00:00	7:45:00	3:27:00	6:00:00
168	7:58 PM	5:00 PM	7:58 PM	11:00 PM	2:58:00	0:25:00	3:02:00	3:27:00	1:45:00	6:00:00	7:45:00		
169	7:59 PM	5:00 PM	7:59 PM	11:00 PM	2:59:00	0:25:00	3:01:00	3:26:00	1:45:00	6:00:00	7:45:00		
170	7:59 PM	5:00 PM	7:59 PM	11:00 PM	2:59:00	0:25:00	3:01:00	3:26:00	1:45:00	6:00:00	7:45:00	3:26:00	6:00:00
171	7:59 PM	5:00 PM	7:59 PM	11:00 PM	2:59:00	0:26:00	3:01:00	3:27:00	1:45:00	6:00:00	7:45:00	3:27:00	6:00:00
172	7:59 PM	5:00 PM	7:59 PM	11:00 PM	2:59:00	0:26:00	3:01:00	3:27:00	1:45:00	6:00:00	7:45:00	3:27:00	6:00:00
173	7:59 PM	5:00 PM	7:59 PM	11:00 PM	2:59:00	0:26:00	3:01:00	3:27:00	1:45:00	6:00:00	7:45:00		6:00:00
174	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:26:00	3:00:00	3:26:00	1:45:00	6:00:00	7:45:00		6:00:00
175	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:27:00	3:00:00	3:27:00	1:45:00	6:00:00	7:45:00		
176	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:27:00	3:00:00	3:27:00	1:45:00	6:00:00	7:45:00		
177	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:27:00	3:00:00	3:27:00	1:45:00	6:00:00	7:45:00		6:00:00
178	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:27:00	3:00:00	3:27:00	1:45:00	6:00:00	7:45:00		6:00:00
179	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:28:00	3:00:00	3:28:00	1:45:00	6:00:00	7:45:00		6:00:00
180	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:28:00	3:00:00	3:28:00	1:45:00	6:00:00	7:45:00		6:00:00
181	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:29:00	3:00:00	3:29:00	1:45:00	6:00:00	7:45:00		6:00:00
182	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:29:00	3:00:00	3:29:00	1:45:00	6:00:00	7:45:00		
183	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:29:00	3:00:00	3:29:00	1:45:00	6:00:00	7:45:00		
184	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:30:00	3:00:00	3:30:00	1:45:00	6:00:00	7:45:00		6:00:00
185	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:30:00	3:00:00	3:30:00	1:45:00	6:00:00	7:45:00		
186	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:31:00	3:00:00	3:31:00	1:45:00	6:00:00	7:45:00		6:00:00
187	8:00 PM	5:00 PM	8:00 PM	11:00 PM	3:00:00	0:31:00	3:00:00	3:31:00	1:45:00	6:00:00	7:45:00		6:00:00
188	7:59 PM	5:00 PM	7:59 PM	11:00 PM	2:59:00	0:32:00	3:01:00	3:33:00	1:45:00	6:00:00	7:45:00		6:00:00
189	7:59 PM	5:00 PM	7:59 PM	11:00 PM	2:59:00	0:32:00	3:01:00	3:33:00	1:45:00	6:00:00	7:45:00		
190	7:59 PM	5:00 PM	7:59 PM	11:00 PM	2:59:00	0:33:00	3:01:00	3:34:00	1:45:00	6:00:00	7:45:00		
191	7:59 PM	5:00 PM	7:59 PM	11:00 PM	2:59:00	0:33:00	3:01:00	3:34:00	1:45:00	6:00:00	7:45:00		6:00:00
192	7:58 PM	5:00 PM	7:58 PM	11:00 PM	2:58:00	0:34:00	3:02:00	3:36:00	1:45:00	6:00:00	7:45:00		6:00:00
193	7:58 PM	5:00 PM	7:58 PM	11:00 PM	2:58:00	0:34:00	3:02:00	3:36:00	1:45:00	6:00:00	7:45:00		6:00:00
194	7:58 PM	5:00 PM	7:58 PM	11:00 PM	2:58:00	0:35:00	3:02:00	3:37:00	1:45:00	6:00:00	7:45:00		6:00:00
195	7:57 PM	5:00 PM	7:57 PM	11:00 PM	2:57:00	0:36:00	3:03:00	3:39:00	1:45:00	6:00:00	7:45:00		6:00:00
196	7:57 PM	5:00 PM	7:57 PM	11:00 PM	2:57:00	0:36:00	3:03:00	3:39:00	1:45:00	6:00:00	7:45:00		
197	7:56 PM	5:00 PM	7:56 PM	11:00 PM	2:56:00	0:37:00	3:04:00	3:41:00	1:45:00	6:00:00	7:45:00		
198	7:56 PM	5:00 PM	7:56 PM	11:00 PM	2:56:00	0:37:00	3:04:00	3:41:00	1:45:00	6:00:00	7:45:00		6:00:00
199	7:56 PM	5:00 PM	7:56 PM	11:00 PM	2:56:00	0:38:00	3:04:00	3:42:00	1:45:00	6:00:00	7:45:00		6:00:00
200	7:55 PM	5:00 PM	7:55 PM	11:00 PM	2:55:00	0:39:00	3:05:00	3:44:00	1:45:00	6:00:00	7:45:00		6:00:00
201	7:55 PM	5:00 PM	7:55 PM	11:00 PM	2:55:00	0:39:00	3:05:00	3:44:00	1:45:00	6:00:00	7:45:00		6:00:00
202	7:54 PM	5:00 PM	7:54 PM	11:00 PM	2:54:00	0:40:00	3:06:00	3:46:00	1:45:00	6:00:00	7:45:00		6:00:00
203	7:53 PM	5:00 PM	7:53 PM	11:00 PM	2:53:00	0:40:00	3:07:00	3:47:00	1:45:00	6:00:00	7:45:00		
204	7:53 PM	5:00 PM	7:53 PM	11:00 PM	2:53:00	0:41:00	3:07:00	3:48:00	1:45:00	6:00:00	7:45:00		
205	7:52 PM	5:00 PM	7:52 PM	11:00 PM	2:52:00	0:42:00	3:08:00	3:50:00	1:45:00	6:00:00	7:45:00		
206	7:52 PM	5:00 PM	7:52 PM	11:00 PM	2:52:00	0:42:00	3:08:00	3:50:00	1:45:00	6:00:00	7:45:00		
207	7:51 PM	5:00 PM	7:51 PM	11:00 PM	2:51:00	0:43:00	3:09:00	3:52:00	1:45:00	6:00:00	7:45:00		
208	7:50 PM	5:00 PM	7:50 PM	11:00 PM	2:50:00	0:44:00	3:10:00	3:54:00	1:45:00	6:00:00	7:45:00		
209	7:49 PM	5:00 PM	7:49 PM	11:00 PM	2:49:00	0:44:00	3:11:00	3:55:00	1:45:00	6:00:00	7:45:00		
210	7:49 PM	5:00 PM	7:49 PM	11:00 PM	2:49:00	0:45:00	3:11:00	3:56:00	1:45:00	6:00:00	7:45:00		

Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	School Year	Year	Mon	DOW	Date	Day type (REG)	CONTRACT DAY (REG)	Weekend Days	Holidays (REG)	Breaks (REG)	Day type Year round	CONTRACT DAYS YEAR ROUND	Weekend Days	Holidays (Year Round)	Breaks (Year round)	Sunrise	Sunset	AM Beg-time	AM Off-time	AM Timer Off-time	AM Time Savings
211	2006-07	2006	7	1	7/30/2006	WE		1			WE		1			6:01 AM	7:48 PM	5:15 AM	6:01 AM	7:00 AM	0:59:00
212	2006-07	2006	7	2	7/31/2006	SUM				1	SUM			1		6:01 AM	7:47 PM	5:15 AM	6:01 AM	7:00 AM	0:59:00
213	2006-07	2006	8	3	8/1/2006	SUM				1	SUM			1		6:02 AM	7:46 PM	5:15 AM	6:02 AM	7:00 AM	0:58:00
214	2006-07	2006	8	4	8/2/2006	SUM				1	SUM			1		6:03 AM	7:46 PM	5:15 AM	6:03 AM	7:00 AM	0:57:00
215	2006-07	2006	8	5	8/3/2006	SUM				1	SUM			1		6:04 AM	7:45 PM	5:15 AM	6:04 AM	7:00 AM	0:56:00
216	2006-07	2006	8	6	8/4/2006	SUM				1	SUM			1		6:04 AM	7:44 PM	5:15 AM	6:04 AM	7:00 AM	0:56:00
217	2006-07	2006	8	7	8/5/2006	WE		1			WE		1			6:05 AM	7:43 PM	5:15 AM	6:05 AM	7:00 AM	0:55:00
218	2006-07	2006	8	1	8/6/2006	WE		1			WE		1			6:06 AM	7:42 PM	5:15 AM	6:06 AM	7:00 AM	0:54:00
219	2006-07	2006	8	2	8/7/2006	SUM				1	SUM			1		6:06 AM	7:41 PM	5:15 AM	6:06 AM	7:00 AM	0:54:00
220	2006-07	2006	8	3	8/8/2006	SUM				1	SUM			1		6:07 AM	7:40 PM	5:15 AM	6:07 AM	7:00 AM	0:53:00
221	2006-07	2006	8	4	8/9/2006	SUM				1	SUM			1		6:08 AM	7:39 PM	5:15 AM	6:08 AM	7:00 AM	0:52:00
222	2006-07	2006	8	5	8/10/2006	SUM				1	SUM			1		6:08 AM	7:38 PM	5:15 AM	6:08 AM	7:00 AM	0:52:00
223	2006-07	2006	8	6	8/11/2006	SUM				1	SUM			1		6:09 AM	7:37 PM	5:15 AM	6:09 AM	7:00 AM	0:51:00
224	2006-07	2006	8	7	8/12/2006	WE		1			WE		1			6:10 AM	7:36 PM	5:15 AM	6:10 AM	7:00 AM	0:50:00
225	2006-07	2006	8	1	8/13/2006	WE		1			WE		1			6:10 AM	7:35 PM	5:15 AM	6:10 AM	7:00 AM	0:50:00
226	2006-07	2006	8	2	8/14/2006	SUM				1	SUM			1		6:11 AM	7:34 PM	5:15 AM	6:11 AM	7:00 AM	0:49:00
227	2006-07	2006	8	3	8/15/2006	SUM				1	SUM			1		6:12 AM	7:33 PM	5:15 AM	6:12 AM	7:00 AM	0:48:00
228	2006-07	2006	8	4	8/16/2006	SUM				1	SUM			1		6:12 AM	7:32 PM	5:15 AM	6:12 AM	7:00 AM	0:48:00
229	2006-07	2006	8	5	8/17/2006	SUM				1	SUM			1		6:13 AM	7:31 PM	5:15 AM	6:13 AM	7:00 AM	0:47:00
230	2006-07	2006	8	6	8/18/2006	SUM				1	SUM			1		6:14 AM	7:30 PM	5:15 AM	6:14 AM	7:00 AM	0:46:00
231	2006-07	2006	8	7	8/19/2006	WE		1			WE		1			6:14 AM	7:29 PM	5:15 AM	6:14 AM	7:00 AM	0:46:00
232	2006-07	2006	8	1	8/20/2006	WE		1			WE		1			6:15 AM	7:27 PM	5:15 AM	6:15 AM	7:00 AM	0:45:00
233	2006-07	2006	8	2	8/21/2006	SUM				1	SUM			1		6:16 AM	7:26 PM	5:15 AM	6:16 AM	7:00 AM	0:44:00
234	2006-07	2006	8	3	8/22/2006	SUM				1	SUM			1		6:16 AM	7:25 PM	5:15 AM	6:16 AM	7:00 AM	0:44:00
235	2006-07	2006	8	4	8/23/2006	SUM				1	SUM			1		6:17 AM	7:24 PM	5:15 AM	6:17 AM	7:00 AM	0:43:00
236	2006-07	2006	8	5	8/24/2006	SUM				1	SUM			1		6:18 AM	7:23 PM	5:15 AM	6:18 AM	7:00 AM	0:42:00
237	2006-07	2006	8	6	8/25/2006	SUM				1	SUM			1		6:18 AM	7:22 PM	5:15 AM	6:18 AM	7:00 AM	0:42:00
238	2006-07	2006	8	7	8/26/2006	WE		1			WE		1			6:19 AM	7:20 PM	5:15 AM	6:19 AM	7:00 AM	0:41:00
239	2006-07	2006	8	1	8/27/2006	WE		1			WE		1			6:20 AM	7:19 PM	5:15 AM	6:20 AM	7:00 AM	0:40:00
240	2006-07	2006	8	2	8/28/2006	SUM				1	SUM			1		6:20 AM	7:18 PM	5:15 AM	6:20 AM	7:00 AM	0:40:00
241	2006-07	2006	8	3	8/29/2006	SUM				1	SUM			1		6:21 AM	7:17 PM	5:15 AM	6:21 AM	7:00 AM	0:39:00
242	2006-07	2006	8	4	8/30/2006	X	1				X	1				6:22 AM	7:15 PM	5:15 AM	6:22 AM	7:00 AM	0:38:00
243	2006-07	2006	8	5	8/31/2006	X	1				X	1				6:22 AM	7:14 PM	5:15 AM	6:22 AM	7:00 AM	0:38:00
244	2006-07	2006	9	6	9/1/2006	X	1				X	1				6:23 AM	7:13 PM	5:15 AM	6:23 AM	7:00 AM	0:37:00
245	2006-07	2006	9	7	9/2/2006	WE		1			WE		1			6:24 AM	7:12 PM	5:15 AM	6:24 AM	7:00 AM	0:36:00
246	2006-07	2006	9	1	9/3/2006	WE		1			WE		1			6:24 AM	7:10 PM	5:15 AM	6:24 AM	7:00 AM	0:36:00
247	2006-07	2006	9	2	9/4/2006	H			1		H			1		6:25 AM	7:09 PM	5:15 AM	6:25 AM	7:00 AM	0:35:00
248	2006-07	2006	9	3	9/5/2006	X	1				X	1				6:25 AM	7:08 PM	5:15 AM	6:25 AM	7:00 AM	0:35:00
249	2006-07	2006	9	4	9/6/2006	X	1				X	1				6:26 AM	7:06 PM	5:15 AM	6:26 AM	7:00 AM	0:34:00
250	2006-07	2006	9	5	9/7/2006	X	1				X	1				6:27 AM	7:05 PM	5:15 AM	6:27 AM	7:00 AM	0:33:00
251	2006-07	2006	9	6	9/8/2006	X	1				X	1				6:27 AM	7:04 PM	5:15 AM	6:27 AM	7:00 AM	0:33:00
252	2006-07	2006	9	7	9/9/2006	WE		1			WE		1			6:28 AM	7:02 PM	5:15 AM	6:28 AM	7:00 AM	0:32:00
253	2006-07	2006	9	1	9/10/2006	WE		1			WE		1			6:29 AM	7:01 PM	5:15 AM	6:29 AM	7:00 AM	0:31:00
254	2006-07	2006	9	2	9/11/2006	X	1				X	1				6:29 AM	7:00 PM	5:15 AM	6:29 AM	7:00 AM	0:31:00
255	2006-07	2006	9	3	9/12/2006	X	1				X	1				6:30 AM	6:58 PM	5:15 AM	6:30 AM	7:00 AM	0:30:00
256	2006-07	2006	9	4	9/13/2006	X	1				X	1				6:31 AM	6:57 PM	5:15 AM	6:31 AM	7:00 AM	0:29:00
257	2006-07	2006	9	5	9/14/2006	X	1				X	1				6:31 AM	6:56 PM	5:15 AM	6:31 AM	7:00 AM	0:29:00
258	2006-07	2006	9	6	9/15/2006	X	1				X	1				6:32 AM	6:54 PM	5:15 AM	6:32 AM	7:00 AM	0:28:00
259	2006-07	2006	9	7	9/16/2006	WE		1			WE		1			6:33 AM	6:53 PM	5:15 AM	6:33 AM	7:00 AM	0:27:00
260	2006-07	2006	9	1	9/17/2006	WE		1			WE		1			6:33 AM	6:52 PM	5:15 AM	6:33 AM	7:00 AM	0:27:00
261	2006-07	2006	9	2	9/18/2006	X	1				X	1				6:34 AM	6:50 PM	5:15 AM	6:34 AM	7:00 AM	0:26:00
262	2006-07	2006	9	3	9/19/2006	X	1				X	1				6:34 AM	6:49 PM	5:15 AM	6:34 AM	7:00 AM	0:26:00
263	2006-07	2006	9	4	9/20/2006	X	1				X	1				6:35 AM	6:48 PM	5:15 AM	6:35 AM	7:00 AM	0:25:00
264	2006-07	2006	9	5	9/21/2006	X	1				X	1				6:36 AM	6:46 PM	5:15 AM	6:36 AM	7:00 AM	0:24:00
265	2006-07	2006	9	6	9/22/2006	X	1				X	1				6:36 AM	6:45 PM	5:15 AM	6:36 AM	7:00 AM	0:24:00
266	2006-07	2006	9	7	9/23/2006	WE		1			WE		1			6:37 AM	6:43 PM	5:15 AM	6:37 AM	7:00 AM	0:23:00
267	2006-07	2006	9	1	9/24/2006	WE		1			WE		1			6:38 AM	6:42 PM	5:15 AM	6:38 AM	7:00 AM	0:22:00
268	2006-07	2006	9	2	9/25/2006	X	1				X	1				6:38 AM	6:41 PM	5:15 AM	6:38 AM	7:00 AM	0:22:00
269	2006-07	2006	9	3	9/26/2006	X	1				X	1				6:39 AM	6:39 PM	5:15 AM	6:39 AM	7:00 AM	0:21:00
270	2006-07	2006	9	4	9/27/2006	X	1				X	1				6:40 AM	6:38 PM	5:15 AM	6:40 AM	7:00 AM	0:20:00
271	2006-07	2006	9	5	9/28/2006	X	1				X	1				6:40 AM	6:37 PM	5:15 AM	6:40 AM	7:00 AM	0:20:00
272	2006-07	2006	9	6	9/29/2006	X	1				X	1				6:41 AM	6:35 PM	5:15 AM	6:41 AM	7:00 AM	0:19:00
273	2006-07	2006	9	7	9/30/2006	WE		1			WE		1			6:42 AM	6:34 PM	5:15 AM	6:42 AM	7:00 AM	0:18:00
274	2006-07	2006	10	1	10/1/2006	WE		1			WE		1			6:42 AM	6:33 PM	5:15 AM	6:42 AM	7:00 AM	0:18:00
275	2006-07	2006	10	2	10/2/2006	X	1				X	1				6:43 AM	6:31 PM	5:15 AM	6:43 AM	7:00 AM	0:17:00
276	2006-07	2006	10	3	10/3/2006	X	1				X	1				6:44 AM	6:30 PM	5:15 AM	6:44 AM	7:00 AM	0:16:00
277	2006-07	2006	10	4	10/4/2006	X	1				X	1				6:44 AM	6:29 PM	5:15 AM	6:44 AM	7:00 AM	0:16:00
278	2006-07	2006	10	5	10/5/2006	X	1				X	1				6:45 AM	6:28 PM	5:15 AM	6:45 AM	7:00 AM	0:15:00
279	2006-07	2006	10	6	10/6/2006	X	1				X	1				6:46 AM	6:26 PM	5:15 AM	6:46 AM	7:00 AM	0:14:00
280	2006-07	2006	10	7	10/7/2006	WE		1			WE		1			6:46 AM	6:25 PM	5:15 AM	6:46 AM	7:00 AM	0:14:00

Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	Sunset	PM Beg	PM Beg On-time	PM Off-Time	PM Time Savings	Controlled On-Hours AM	Controlled On-Hours PM	Controlled On-Hours Total	Basecase On-Hours AM	Basecase On-Hours PM	Basecase On-Hours Total	Traditional Controlled Hours	Year Round Controlled Hours
211	7:48 PM	5:00 PM	7:48 PM	11:00 PM	2:48:00	0:46:00	3:12:00	3:58:00	1:45:00	6:00:00	7:45:00		
212	7:47 PM	5:00 PM	7:47 PM	11:00 PM	2:47:00	0:46:00	3:13:00	3:59:00	1:45:00	6:00:00	7:45:00		
213	7:46 PM	5:00 PM	7:46 PM	11:00 PM	2:46:00	0:47:00	3:14:00	4:01:00	1:45:00	6:00:00	7:45:00		
214	7:46 PM	5:00 PM	7:46 PM	11:00 PM	2:46:00	0:48:00	3:14:00	4:02:00	1:45:00	6:00:00	7:45:00		
215	7:45 PM	5:00 PM	7:45 PM	11:00 PM	2:45:00	0:49:00	3:15:00	4:04:00	1:45:00	6:00:00	7:45:00		
216	7:44 PM	5:00 PM	7:44 PM	11:00 PM	2:44:00	0:49:00	3:16:00	4:05:00	1:45:00	6:00:00	7:45:00		
217	7:43 PM	5:00 PM	7:43 PM	11:00 PM	2:43:00	0:50:00	3:17:00	4:07:00	1:45:00	6:00:00	7:45:00		
218	7:42 PM	5:00 PM	7:42 PM	11:00 PM	2:42:00	0:51:00	3:18:00	4:09:00	1:45:00	6:00:00	7:45:00		
219	7:41 PM	5:00 PM	7:41 PM	11:00 PM	2:41:00	0:51:00	3:19:00	4:10:00	1:45:00	6:00:00	7:45:00		
220	7:40 PM	5:00 PM	7:40 PM	11:00 PM	2:40:00	0:52:00	3:20:00	4:12:00	1:45:00	6:00:00	7:45:00		
221	7:39 PM	5:00 PM	7:39 PM	11:00 PM	2:39:00	0:53:00	3:21:00	4:14:00	1:45:00	6:00:00	7:45:00		
222	7:38 PM	5:00 PM	7:38 PM	11:00 PM	2:38:00	0:53:00	3:22:00	4:15:00	1:45:00	6:00:00	7:45:00		
223	7:37 PM	5:00 PM	7:37 PM	11:00 PM	2:37:00	0:54:00	3:23:00	4:17:00	1:45:00	6:00:00	7:45:00		
224	7:36 PM	5:00 PM	7:36 PM	11:00 PM	2:36:00	0:55:00	3:24:00	4:19:00	1:45:00	6:00:00	7:45:00		
225	7:35 PM	5:00 PM	7:35 PM	11:00 PM	2:35:00	0:55:00	3:25:00	4:20:00	1:45:00	6:00:00	7:45:00		
226	7:34 PM	5:00 PM	7:34 PM	11:00 PM	2:34:00	0:56:00	3:26:00	4:22:00	1:45:00	6:00:00	7:45:00		
227	7:33 PM	5:00 PM	7:33 PM	11:00 PM	2:33:00	0:57:00	3:27:00	4:24:00	1:45:00	6:00:00	7:45:00		
228	7:32 PM	5:00 PM	7:32 PM	11:00 PM	2:32:00	0:57:00	3:28:00	4:25:00	1:45:00	6:00:00	7:45:00		
229	7:31 PM	5:00 PM	7:31 PM	11:00 PM	2:31:00	0:58:00	3:29:00	4:27:00	1:45:00	6:00:00	7:45:00		
230	7:30 PM	5:00 PM	7:30 PM	11:00 PM	2:30:00	0:59:00	3:30:00	4:29:00	1:45:00	6:00:00	7:45:00		
231	7:29 PM	5:00 PM	7:29 PM	11:00 PM	2:29:00	0:59:00	3:31:00	4:30:00	1:45:00	6:00:00	7:45:00		
232	7:27 PM	5:00 PM	7:27 PM	11:00 PM	2:27:00	1:00:00	3:33:00	4:33:00	1:45:00	6:00:00	7:45:00		
233	7:26 PM	5:00 PM	7:26 PM	11:00 PM	2:26:00	1:01:00	3:34:00	4:35:00	1:45:00	6:00:00	7:45:00		
234	7:25 PM	5:00 PM	7:25 PM	11:00 PM	2:25:00	1:01:00	3:35:00	4:36:00	1:45:00	6:00:00	7:45:00		
235	7:24 PM	5:00 PM	7:24 PM	11:00 PM	2:24:00	1:02:00	3:36:00	4:38:00	1:45:00	6:00:00	7:45:00		
236	7:23 PM	5:00 PM	7:23 PM	11:00 PM	2:23:00	1:03:00	3:37:00	4:40:00	1:45:00	6:00:00	7:45:00		
237	7:22 PM	5:00 PM	7:22 PM	11:00 PM	2:22:00	1:03:00	3:38:00	4:41:00	1:45:00	6:00:00	7:45:00		
238	7:20 PM	5:00 PM	7:20 PM	11:00 PM	2:20:00	1:04:00	3:40:00	4:44:00	1:45:00	6:00:00	7:45:00		
239	7:19 PM	5:00 PM	7:19 PM	11:00 PM	2:19:00	1:05:00	3:41:00	4:46:00	1:45:00	6:00:00	7:45:00		
240	7:18 PM	5:00 PM	7:18 PM	11:00 PM	2:18:00	1:05:00	3:42:00	4:47:00	1:45:00	6:00:00	7:45:00		
241	7:17 PM	5:00 PM	7:17 PM	11:00 PM	2:17:00	1:06:00	3:43:00	4:49:00	1:45:00	6:00:00	7:45:00		
242	7:15 PM	5:00 PM	7:15 PM	11:00 PM	2:15:00	1:07:00	3:45:00	4:52:00	1:45:00	6:00:00	7:45:00	4:52:00	6:00:00
243	7:14 PM	5:00 PM	7:14 PM	11:00 PM	2:14:00	1:07:00	3:46:00	4:53:00	1:45:00	6:00:00	7:45:00	4:53:00	6:00:00
244	7:13 PM	5:00 PM	7:13 PM	11:00 PM	2:13:00	1:08:00	3:47:00	4:55:00	1:45:00	6:00:00	7:45:00	4:55:00	6:00:00
245	7:12 PM	5:00 PM	7:12 PM	11:00 PM	2:12:00	1:09:00	3:48:00	4:57:00	1:45:00	6:00:00	7:45:00		
246	7:10 PM	5:00 PM	7:10 PM	11:00 PM	2:10:00	1:09:00	3:50:00	4:59:00	1:45:00	6:00:00	7:45:00		
247	7:09 PM	5:00 PM	7:09 PM	11:00 PM	2:09:00	1:10:00	3:51:00	5:01:00	1:45:00	6:00:00	7:45:00		
248	7:08 PM	5:00 PM	7:08 PM	11:00 PM	2:08:00	1:10:00	3:52:00	5:02:00	1:45:00	6:00:00	7:45:00	5:02:00	6:00:00
249	7:06 PM	5:00 PM	7:06 PM	11:00 PM	2:06:00	1:11:00	3:54:00	5:05:00	1:45:00	6:00:00	7:45:00	5:05:00	6:00:00
250	7:05 PM	5:00 PM	7:05 PM	11:00 PM	2:05:00	1:12:00	3:55:00	5:07:00	1:45:00	6:00:00	7:45:00	5:07:00	6:00:00
251	7:04 PM	5:00 PM	7:04 PM	11:00 PM	2:04:00	1:12:00	3:56:00	5:08:00	1:45:00	6:00:00	7:45:00	5:08:00	6:00:00
252	7:02 PM	5:00 PM	7:02 PM	11:00 PM	2:02:00	1:13:00	3:58:00	5:11:00	1:45:00	6:00:00	7:45:00		
253	7:01 PM	5:00 PM	7:01 PM	11:00 PM	2:01:00	1:14:00	3:59:00	5:13:00	1:45:00	6:00:00	7:45:00		
254	7:00 PM	5:00 PM	7:00 PM	11:00 PM	2:00:00	1:14:00	4:00:00	5:14:00	1:45:00	6:00:00	7:45:00	5:14:00	6:00:00
255	6:58 PM	5:00 PM	6:58 PM	11:00 PM	1:58:00	1:15:00	4:02:00	5:17:00	1:45:00	6:00:00	7:45:00	5:17:00	6:00:00
256	6:57 PM	5:00 PM	6:57 PM	11:00 PM	1:57:00	1:16:00	4:03:00	5:19:00	1:45:00	6:00:00	7:45:00	5:19:00	6:00:00
257	6:56 PM	5:00 PM	6:56 PM	11:00 PM	1:56:00	1:16:00	4:04:00	5:20:00	1:45:00	6:00:00	7:45:00	5:20:00	6:00:00
258	6:54 PM	5:00 PM	6:54 PM	11:00 PM	1:54:00	1:17:00	4:06:00	5:23:00	1:45:00	6:00:00	7:45:00	5:23:00	6:00:00
259	6:53 PM	5:00 PM	6:53 PM	11:00 PM	1:53:00	1:18:00	4:07:00	5:25:00	1:45:00	6:00:00	7:45:00		
260	6:52 PM	5:00 PM	6:52 PM	11:00 PM	1:52:00	1:18:00	4:08:00	5:26:00	1:45:00	6:00:00	7:45:00		
261	6:50 PM	5:00 PM	6:50 PM	11:00 PM	1:50:00	1:19:00	4:10:00	5:29:00	1:45:00	6:00:00	7:45:00	5:29:00	6:00:00
262	6:49 PM	5:00 PM	6:49 PM	11:00 PM	1:49:00	1:19:00	4:11:00	5:30:00	1:45:00	6:00:00	7:45:00	5:30:00	6:00:00
263	6:48 PM	5:00 PM	6:48 PM	11:00 PM	1:48:00	1:20:00	4:12:00	5:32:00	1:45:00	6:00:00	7:45:00	5:32:00	6:00:00
264	6:46 PM	5:00 PM	6:46 PM	11:00 PM	1:46:00	1:21:00	4:14:00	5:35:00	1:45:00	6:00:00	7:45:00	5:35:00	6:00:00
265	6:45 PM	5:00 PM	6:45 PM	11:00 PM	1:45:00	1:21:00	4:15:00	5:36:00	1:45:00	6:00:00	7:45:00	5:36:00	6:00:00
266	6:43 PM	5:00 PM	6:43 PM	11:00 PM	1:43:00	1:22:00	4:17:00	5:39:00	1:45:00	6:00:00	7:45:00		
267	6:42 PM	5:00 PM	6:42 PM	11:00 PM	1:42:00	1:23:00	4:18:00	5:41:00	1:45:00	6:00:00	7:45:00		
268	6:41 PM	5:00 PM	6:41 PM	11:00 PM	1:41:00	1:23:00	4:19:00	5:42:00	1:45:00	6:00:00	7:45:00	5:42:00	6:00:00
269	6:39 PM	5:00 PM	6:39 PM	11:00 PM	1:39:00	1:24:00	4:21:00	5:45:00	1:45:00	6:00:00	7:45:00	5:45:00	6:00:00
270	6:38 PM	5:00 PM	6:38 PM	11:00 PM	1:38:00	1:25:00	4:22:00	5:47:00	1:45:00	6:00:00	7:45:00	5:47:00	6:00:00
271	6:37 PM	5:00 PM	6:37 PM	11:00 PM	1:37:00	1:25:00	4:23:00	5:48:00	1:45:00	6:00:00	7:45:00	5:48:00	6:00:00
272	6:35 PM	5:00 PM	6:35 PM	11:00 PM	1:35:00	1:26:00	4:25:00	5:51:00	1:45:00	6:00:00	7:45:00	5:51:00	6:00:00
273	6:34 PM	5:00 PM	6:34 PM	11:00 PM	1:34:00	1:27:00	4:26:00	5:53:00	1:45:00	6:00:00	7:45:00		
274	6:33 PM	5:00 PM	6:33 PM	11:00 PM	1:33:00	1:27:00	4:27:00	5:54:00	1:45:00	6:00:00	7:45:00		
275	6:31 PM	5:00 PM	6:31 PM	11:00 PM	1:31:00	1:28:00	4:29:00	5:57:00	1:45:00	6:00:00	7:45:00	5:57:00	6:00:00
276	6:30 PM	5:00 PM	6:30 PM	11:00 PM	1:30:00	1:29:00	4:30:00	5:59:00	1:45:00	6:00:00	7:45:00	5:59:00	6:00:00
277	6:29 PM	5:00 PM	6:29 PM	11:00 PM	1:29:00	1:29:00	4:31:00	6:00:00	1:45:00	6:00:00	7:45:00	6:00:00	6:00:00
278	6:28 PM	5:00 PM	6:28 PM	11:00 PM	1:28:00	1:30:00	4:32:00	6:02:00	1:45:00	6:00:00	7:45:00	6:02:00	6:00:00
279	6:26 PM	5:00 PM	6:26 PM	11:00 PM	1:26:00	1:31:00	4:34:00	6:05:00	1:45:00	6:00:00	7:45:00	6:05:00	6:00:00
280	6:25 PM	5:00 PM	6:25 PM	11:00 PM	1:25:00	1:31:00	4:35:00	6:06:00	1:45:00	6:00:00	7:45:00		

Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	School Year	Year	Mon	DOW	Date	Day type (REG)	CONTRACT DAY (REG)	Weekend Days	Holidays (REG)	Breaks (REG)	Day type Yearround	CONTRACT DAYS YEAR ROUND	Weekend Days	Holidays (Year Round)	Breaks (Year round)	Sunrise	Sunset	AM Beg-time	AM Off-time	AM Timer Off-time	AM Time Savings
281	2006-07	2006	10	1	10/8/2006	WE		1			WE		1			6:47 AM	6:24 PM	5:15 AM	6:47 AM	7:00 AM	0:13:00
282	2006-07	2006	10	2	10/9/2006	X	1				X	1				6:48 AM	6:22 PM	5:15 AM	6:48 AM	7:00 AM	0:12:00
283	2006-07	2006	10	3	10/10/2006	X	1				X	1				6:49 AM	6:21 PM	5:15 AM	6:49 AM	7:00 AM	0:11:00
284	2006-07	2006	10	4	10/11/2006	X	1				X	1				6:49 AM	6:20 PM	5:15 AM	6:49 AM	7:00 AM	0:11:00
285	2006-07	2006	10	5	10/12/2006	X	1				X	1				6:50 AM	6:19 PM	5:15 AM	6:50 AM	7:00 AM	0:10:00
286	2006-07	2006	10	6	10/13/2006	X	1				X	1				6:51 AM	6:17 PM	5:15 AM	6:51 AM	7:00 AM	0:09:00
287	2006-07	2006	10	7	10/14/2006	WE		1			WE		1			6:52 AM	6:16 PM	5:15 AM	6:52 AM	7:00 AM	0:08:00
288	2006-07	2006	10	1	10/15/2006	WE		1			WE		1			6:52 AM	6:15 PM	5:15 AM	6:52 AM	7:00 AM	0:08:00
289	2006-07	2006	10	2	10/16/2006	X	1				X	1				6:53 AM	6:14 PM	5:15 AM	6:53 AM	7:00 AM	0:07:00
290	2006-07	2006	10	3	10/17/2006	X	1				X	1				6:54 AM	6:13 PM	5:15 AM	6:54 AM	7:00 AM	0:06:00
291	2006-07	2006	10	4	10/18/2006	X	1				X	1				6:54 AM	6:12 PM	5:15 AM	6:54 AM	7:00 AM	0:06:00
292	2006-07	2006	10	5	10/19/2006	X	1				X	1				6:55 AM	6:10 PM	5:15 AM	6:55 AM	7:00 AM	0:05:00
293	2006-07	2006	10	6	10/20/2006	X	1				X	1				6:56 AM	6:09 PM	5:15 AM	6:56 AM	7:00 AM	0:04:00
294	2006-07	2006	10	7	10/21/2006	WE		1			WE		1			6:57 AM	6:08 PM	5:15 AM	6:57 AM	7:00 AM	0:03:00
295	2006-07	2006	10	1	10/22/2006	WE		1			WE		1			6:58 AM	6:07 PM	5:15 AM	6:58 AM	7:00 AM	0:02:00
296	2006-07	2006	10	2	10/23/2006	X	1				X	1				6:58 AM	6:06 PM	5:15 AM	6:58 AM	7:00 AM	0:02:00
297	2006-07	2006	10	3	10/24/2006	X	1				X	1				6:59 AM	6:05 PM	5:15 AM	6:59 AM	7:00 AM	0:01:00
298	2006-07	2006	10	4	10/25/2006	X	1				X	1				7:00 AM	6:04 PM	5:15 AM	7:00 AM	7:00 AM	0:00:00
299	2006-07	2006	10	5	10/26/2006	X	1				X	1				7:01 AM	6:03 PM	5:15 AM	7:01 AM	7:00 AM	0:00:00
300	2006-07	2006	10	6	10/27/2006	X	1				X	1				7:02 AM	6:02 PM	5:15 AM	7:02 AM	7:00 AM	0:00:00
301	2006-07	2006	10	7	10/28/2006	WE		1			WE		1			7:02 AM	6:01 PM	5:15 AM	7:02 AM	7:00 AM	0:00:00
302	2006-07	2006	10	1	10/29/2006	WE		1			WE		1			6:03 AM	5:00 PM	5:15 AM	6:03 AM	7:00 AM	0:57:00
303	2006-07	2006	10	2	10/30/2006	X	1				X	1				6:04 AM	4:59 PM	5:15 AM	6:04 AM	7:00 AM	0:56:00
304	2006-07	2006	10	3	10/31/2006	X	1				X	1				6:05 AM	4:58 PM	5:15 AM	6:05 AM	7:00 AM	0:55:00
305	2006-07	2006	11	4	11/1/2006	X	1				X	1				6:06 AM	4:57 PM	5:15 AM	6:06 AM	7:00 AM	0:54:00
306	2006-07	2006	11	5	11/2/2006	X	1				X	1				6:07 AM	4:56 PM	5:15 AM	6:07 AM	7:00 AM	0:53:00
307	2006-07	2006	11	6	11/3/2006	X	1				X	1				6:08 AM	4:55 PM	5:15 AM	6:08 AM	7:00 AM	0:52:00
308	2006-07	2006	11	7	11/4/2006	WE		1			WE		1			6:08 AM	4:55 PM	5:15 AM	6:08 AM	7:00 AM	0:52:00
309	2006-07	2006	11	1	11/5/2006	WE		1			WE		1			6:09 AM	4:54 PM	5:15 AM	6:09 AM	7:00 AM	0:51:00
310	2006-07	2006	11	2	11/6/2006	X	1				X	1				6:10 AM	4:53 PM	5:15 AM	6:10 AM	7:00 AM	0:50:00
311	2006-07	2006	11	3	11/7/2006	X	1				X	1				6:11 AM	4:52 PM	5:15 AM	6:11 AM	7:00 AM	0:49:00
312	2006-07	2006	11	4	11/8/2006	X	1				X	1				6:12 AM	4:52 PM	5:15 AM	6:12 AM	7:00 AM	0:48:00
313	2006-07	2006	11	5	11/9/2006	X	1				X	1				6:13 AM	4:51 PM	5:15 AM	6:13 AM	7:00 AM	0:47:00
314	2006-07	2006	11	6	11/10/2006	H			1		H			1		6:14 AM	4:50 PM	5:15 AM	6:14 AM	7:00 AM	0:46:00
315	2006-07	2006	11	7	11/11/2006	WE		1			WE		1			6:15 AM	4:49 PM	5:15 AM	6:15 AM	7:00 AM	0:45:00
316	2006-07	2006	11	1	11/12/2006	WE		1			WE		1			6:15 AM	4:49 PM	5:15 AM	6:15 AM	7:00 AM	0:45:00
317	2006-07	2006	11	2	11/13/2006	X	1				X	1				6:16 AM	4:48 PM	5:15 AM	6:16 AM	7:00 AM	0:44:00
318	2006-07	2006	11	3	11/14/2006	X	1				X	1				6:17 AM	4:48 PM	5:15 AM	6:17 AM	7:00 AM	0:43:00
319	2006-07	2006	11	4	11/15/2006	X	1				X	1				6:18 AM	4:47 PM	5:15 AM	6:18 AM	7:00 AM	0:42:00
320	2006-07	2006	11	5	11/16/2006	X	1				X	1				6:19 AM	4:46 PM	5:15 AM	6:19 AM	7:00 AM	0:41:00
321	2006-07	2006	11	6	11/17/2006	X	1				X	1				6:20 AM	4:46 PM	5:15 AM	6:20 AM	7:00 AM	0:40:00
322	2006-07	2006	11	7	11/18/2006	WE		1			WE		1			6:21 AM	4:45 PM	5:15 AM	6:21 AM	7:00 AM	0:39:00
323	2006-07	2006	11	1	11/19/2006	WE		1			WE		1			6:22 AM	4:45 PM	5:15 AM	6:22 AM	7:00 AM	0:38:00
324	2006-07	2006	11	2	11/20/2006	H			1		H			1		6:23 AM	4:45 PM	5:15 AM	6:23 AM	7:00 AM	0:37:00
325	2006-07	2006	11	3	11/21/2006	H			1		H			1		6:24 AM	4:44 PM	5:15 AM	6:24 AM	7:00 AM	0:36:00
326	2006-07	2006	11	4	11/22/2006	H			1		H			1		6:24 AM	4:44 PM	5:15 AM	6:24 AM	7:00 AM	0:36:00
327	2006-07	2006	11	5	11/23/2006	H			1		H			1		6:25 AM	4:44 PM	5:15 AM	6:25 AM	7:00 AM	0:35:00
328	2006-07	2006	11	6	11/24/2006	H			1		H			1		6:26 AM	4:43 PM	5:15 AM	6:26 AM	7:00 AM	0:34:00
329	2006-07	2006	11	7	11/25/2006	WE		1			WE		1			6:27 AM	4:43 PM	5:15 AM	6:27 AM	7:00 AM	0:33:00
330	2006-07	2006	11	1	11/26/2006	WE		1			WE		1			6:28 AM	4:43 PM	5:15 AM	6:28 AM	7:00 AM	0:32:00
331	2006-07	2006	11	2	11/27/2006	X	1				X	1				6:29 AM	4:42 PM	5:15 AM	6:29 AM	7:00 AM	0:31:00
332	2006-07	2006	11	3	11/28/2006	X	1				X	1				6:30 AM	4:42 PM	5:15 AM	6:30 AM	7:00 AM	0:30:00
333	2006-07	2006	11	4	11/29/2006	X	1				X	1				6:31 AM	4:42 PM	5:15 AM	6:31 AM	7:00 AM	0:29:00
334	2006-07	2006	11	5	11/30/2006	X	1				X	1				6:32 AM	4:42 PM	5:15 AM	6:32 AM	7:00 AM	0:28:00
335	2006-07	2006	12	6	12/1/2006	X	1				X	1				6:32 AM	4:42 PM	5:15 AM	6:32 AM	7:00 AM	0:28:00
336	2006-07	2006	12	7	12/2/2006	WE		1			WE		1			6:33 AM	4:42 PM	5:15 AM	6:33 AM	7:00 AM	0:27:00
337	2006-07	2006	12	1	12/3/2006	WE		1			WE		1			6:34 AM	4:42 PM	5:15 AM	6:34 AM	7:00 AM	0:26:00
338	2006-07	2006	12	2	12/4/2006	X	1				X	1				6:35 AM	4:42 PM	5:15 AM	6:35 AM	7:00 AM	0:25:00
339	2006-07	2006	12	3	12/5/2006	X	1				X	1				6:36 AM	4:42 PM	5:15 AM	6:36 AM	7:00 AM	0:24:00
340	2006-07	2006	12	4	12/6/2006	X	1				X	1				6:36 AM	4:42 PM	5:15 AM	6:36 AM	7:00 AM	0:24:00
341	2006-07	2006	12	5	12/7/2006	X	1				X	1				6:37 AM	4:42 PM	5:15 AM	6:37 AM	7:00 AM	0:23:00
342	2006-07	2006	12	6	12/8/2006	X	1				X	1				6:38 AM	4:42 PM	5:15 AM	6:38 AM	7:00 AM	0:22:00
343	2006-07	2006	12	7	12/9/2006	WE		1			WE		1			6:39 AM	4:42 PM	5:15 AM	6:39 AM	7:00 AM	0:21:00
344	2006-07	2006	12	1	12/10/2006	WE		1			WE		1			6:39 AM	4:42 PM	5:15 AM	6:39 AM	7:00 AM	0:21:00
345	2006-07	2006	12	2	12/11/2006	X	1				X	1				6:40 AM	4:43 PM	5:15 AM	6:40 AM	7:00 AM	0:20:00
346	2006-07	2006	12	3	12/12/2006	X	1				X	1				6:41 AM	4:43 PM	5:15 AM	6:41 AM	7:00 AM	0:19:00
347	2006-07	2006	12	4	12/13/2006	X	1				X	1				6:42 AM	4:43 PM	5:15 AM	6:42 AM	7:00 AM	0:18:00
348	2006-07	2006	12	5	12/14/2006	X	1				X	1				6:42 AM	4:43 PM	5:15 AM	6:42 AM	7:00 AM	0:18:00
349	2006-07	2006	12	6	12/15/2006	X	1				X	1				6:43 AM	4:44 PM	5:15 AM	6:43 AM	7:00 AM	0:17:00
350	2006-07	2006	12	7	12/16/2006	WE		1			WE		1			6:44 AM	4:44 PM	5:15 AM	6:44 AM	7:00 AM	0:16:00

Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	Sunset	PM Beg	PM Beg On-time	PM Off-Time	PM Time Savings	Controlled On-Hours AM	Controlled On-Hours PM	Controlled On-Hours Total	Basecase On-Hours AM	Basecase On-Hours PM	Basecase On-Hours Total	Traditional Controlled Hours	Year Round Controlled Hours
281	6:24 PM	5:00 PM	6:24 PM	11:00 PM	1:24:00	1:32:00	4:36:00	6:08:00	1:45:00	6:00:00	7:45:00		
282	6:22 PM	5:00 PM	6:22 PM	11:00 PM	1:22:00	1:33:00	4:38:00	6:11:00	1:45:00	6:00:00	7:45:00	6:11:00	6:00:00
283	6:21 PM	5:00 PM	6:21 PM	11:00 PM	1:21:00	1:34:00	4:39:00	6:13:00	1:45:00	6:00:00	7:45:00	6:13:00	6:00:00
284	6:20 PM	5:00 PM	6:20 PM	11:00 PM	1:20:00	1:34:00	4:40:00	6:14:00	1:45:00	6:00:00	7:45:00	6:14:00	6:00:00
285	6:19 PM	5:00 PM	6:19 PM	11:00 PM	1:19:00	1:35:00	4:41:00	6:16:00	1:45:00	6:00:00	7:45:00	6:16:00	6:00:00
286	6:17 PM	5:00 PM	6:17 PM	11:00 PM	1:17:00	1:36:00	4:43:00	6:19:00	1:45:00	6:00:00	7:45:00	6:19:00	6:00:00
287	6:16 PM	5:00 PM	6:16 PM	11:00 PM	1:16:00	1:37:00	4:44:00	6:21:00	1:45:00	6:00:00	7:45:00		
288	6:15 PM	5:00 PM	6:15 PM	11:00 PM	1:15:00	1:37:00	4:45:00	6:22:00	1:45:00	6:00:00	7:45:00		
289	6:14 PM	5:00 PM	6:14 PM	11:00 PM	1:14:00	1:38:00	4:46:00	6:24:00	1:45:00	6:00:00	7:45:00	6:24:00	6:00:00
290	6:13 PM	5:00 PM	6:13 PM	11:00 PM	1:13:00	1:39:00	4:47:00	6:26:00	1:45:00	6:00:00	7:45:00	6:26:00	6:00:00
291	6:12 PM	5:00 PM	6:12 PM	11:00 PM	1:12:00	1:39:00	4:48:00	6:27:00	1:45:00	6:00:00	7:45:00	6:27:00	6:00:00
292	6:10 PM	5:00 PM	6:10 PM	11:00 PM	1:10:00	1:40:00	4:50:00	6:30:00	1:45:00	6:00:00	7:45:00	6:30:00	6:00:00
293	6:09 PM	5:00 PM	6:09 PM	11:00 PM	1:09:00	1:41:00	4:51:00	6:32:00	1:45:00	6:00:00	7:45:00	6:32:00	6:00:00
294	6:08 PM	5:00 PM	6:08 PM	11:00 PM	1:08:00	1:42:00	4:52:00	6:34:00	1:45:00	6:00:00	7:45:00		
295	6:07 PM	5:00 PM	6:07 PM	11:00 PM	1:07:00	1:43:00	4:53:00	6:36:00	1:45:00	6:00:00	7:45:00		
296	6:06 PM	5:00 PM	6:06 PM	11:00 PM	1:06:00	1:43:00	4:54:00	6:37:00	1:45:00	6:00:00	7:45:00	6:37:00	6:00:00
297	6:05 PM	5:00 PM	6:05 PM	11:00 PM	1:05:00	1:44:00	4:55:00	6:39:00	1:45:00	6:00:00	7:45:00	6:39:00	6:00:00
298	6:04 PM	5:00 PM	6:04 PM	11:00 PM	1:04:00	1:45:00	4:56:00	6:41:00	1:45:00	6:00:00	7:45:00	6:41:00	6:00:00
299	6:03 PM	5:00 PM	6:03 PM	11:00 PM	1:03:00	1:46:00	4:57:00	6:43:00	1:45:00	6:00:00	7:45:00	6:43:00	6:00:00
300	6:02 PM	5:00 PM	6:02 PM	11:00 PM	1:02:00	1:47:00	4:58:00	6:45:00	1:45:00	6:00:00	7:45:00	6:45:00	6:00:00
301	6:01 PM	5:00 PM	6:01 PM	11:00 PM	1:01:00	1:47:00	4:59:00	6:46:00	1:45:00	6:00:00	7:45:00		
302	5:00 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:48:00	6:00:00	6:48:00	1:45:00	6:00:00	7:45:00		
303	4:59 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:49:00	6:00:00	6:49:00	1:45:00	6:00:00	7:45:00	6:49:00	6:00:00
304	4:58 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:50:00	6:00:00	6:50:00	1:45:00	6:00:00	7:45:00	6:50:00	6:00:00
305	4:57 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:51:00	6:00:00	6:51:00	1:45:00	6:00:00	7:45:00	6:51:00	6:00:00
306	4:56 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:52:00	6:00:00	6:52:00	1:45:00	6:00:00	7:45:00	6:52:00	6:00:00
307	4:55 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:53:00	6:00:00	6:53:00	1:45:00	6:00:00	7:45:00	6:53:00	6:00:00
308	4:55 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:53:00	6:00:00	6:53:00	1:45:00	6:00:00	7:45:00		
309	4:54 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:54:00	6:00:00	6:54:00	1:45:00	6:00:00	7:45:00		
310	4:53 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:55:00	6:00:00	6:55:00	1:45:00	6:00:00	7:45:00	6:55:00	6:00:00
311	4:52 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:56:00	6:00:00	6:56:00	1:45:00	6:00:00	7:45:00	6:56:00	6:00:00
312	4:52 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:57:00	6:00:00	6:57:00	1:45:00	6:00:00	7:45:00	6:57:00	6:00:00
313	4:51 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:58:00	6:00:00	6:58:00	1:45:00	6:00:00	7:45:00	6:58:00	6:00:00
314	4:50 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	0:59:00	6:00:00	6:59:00	1:45:00	6:00:00	7:45:00		
315	4:49 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:00:00	6:00:00	7:00:00	1:45:00	6:00:00	7:45:00		
316	4:49 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:00:00	6:00:00	7:00:00	1:45:00	6:00:00	7:45:00		
317	4:48 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:01:00	6:00:00	7:01:00	1:45:00	6:00:00	7:45:00	7:01:00	6:00:00
318	4:48 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:02:00	6:00:00	7:02:00	1:45:00	6:00:00	7:45:00	7:02:00	6:00:00
319	4:47 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:03:00	6:00:00	7:03:00	1:45:00	6:00:00	7:45:00	7:03:00	6:00:00
320	4:46 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:04:00	6:00:00	7:04:00	1:45:00	6:00:00	7:45:00	7:04:00	6:00:00
321	4:46 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:05:00	6:00:00	7:05:00	1:45:00	6:00:00	7:45:00	7:05:00	6:00:00
322	4:45 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:06:00	6:00:00	7:06:00	1:45:00	6:00:00	7:45:00		
323	4:45 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:07:00	6:00:00	7:07:00	1:45:00	6:00:00	7:45:00		
324	4:45 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:08:00	6:00:00	7:08:00	1:45:00	6:00:00	7:45:00		
325	4:44 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:09:00	6:00:00	7:09:00	1:45:00	6:00:00	7:45:00		
326	4:44 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:09:00	6:00:00	7:09:00	1:45:00	6:00:00	7:45:00		
327	4:44 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:10:00	6:00:00	7:10:00	1:45:00	6:00:00	7:45:00		
328	4:43 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:11:00	6:00:00	7:11:00	1:45:00	6:00:00	7:45:00		
329	4:43 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:12:00	6:00:00	7:12:00	1:45:00	6:00:00	7:45:00		
330	4:43 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:13:00	6:00:00	7:13:00	1:45:00	6:00:00	7:45:00		
331	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:14:00	6:00:00	7:14:00	1:45:00	6:00:00	7:45:00	7:14:00	6:00:00
332	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:15:00	6:00:00	7:15:00	1:45:00	6:00:00	7:45:00	7:15:00	6:00:00
333	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:16:00	6:00:00	7:16:00	1:45:00	6:00:00	7:45:00	7:16:00	6:00:00
334	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:17:00	6:00:00	7:17:00	1:45:00	6:00:00	7:45:00	7:17:00	6:00:00
335	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:17:00	6:00:00	7:17:00	1:45:00	6:00:00	7:45:00	7:17:00	6:00:00
336	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:18:00	6:00:00	7:18:00	1:45:00	6:00:00	7:45:00		
337	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:19:00	6:00:00	7:19:00	1:45:00	6:00:00	7:45:00		
338	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:20:00	6:00:00	7:20:00	1:45:00	6:00:00	7:45:00	7:20:00	6:00:00
339	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:21:00	6:00:00	7:21:00	1:45:00	6:00:00	7:45:00	7:21:00	6:00:00
340	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:21:00	6:00:00	7:21:00	1:45:00	6:00:00	7:45:00	7:21:00	6:00:00
341	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:22:00	6:00:00	7:22:00	1:45:00	6:00:00	7:45:00	7:22:00	6:00:00
342	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:23:00	6:00:00	7:23:00	1:45:00	6:00:00	7:45:00	7:23:00	6:00:00
343	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:24:00	6:00:00	7:24:00	1:45:00	6:00:00	7:45:00		
344	4:42 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:24:00	6:00:00	7:24:00	1:45:00	6:00:00	7:45:00		
345	4:43 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:25:00	6:00:00	7:25:00	1:45:00	6:00:00	7:45:00	7:25:00	6:00:00
346	4:43 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:26:00	6:00:00	7:26:00	1:45:00	6:00:00	7:45:00	7:26:00	6:00:00
347	4:43 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:27:00	6:00:00	7:27:00	1:45:00	6:00:00	7:45:00	7:27:00	6:00:00
348	4:43 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:27:00	6:00:00	7:27:00	1:45:00	6:00:00	7:45:00	7:27:00	6:00:00
349	4:44 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:28:00	6:00:00	7:28:00	1:45:00	6:00:00	7:45:00	7:28:00	6:00:00
350	4:44 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:29:00	6:00:00	7:29:00	1:45:00	6:00:00	7:45:00		

Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	School Year	Year	Mon	DOW	Date	Day type (REG)	CONTRACT DAY (REG)	Weekend Days	Holidays (REG)	Breaks (REG)	Day type Yearround	CONTRACT DAYS YEAR ROUND	Weekend Days	Holidays (Year Round)	Breaks (Year round)	Sunrise	Sunset	AM Beg-time	AM Off-time	AM Timer Off-time	AM Time Savings	
351	2006-07	2006	12	1	12/17/2006	WE		1			WE		1			6:44 AM	4:44 PM	5:15 AM	6:44 AM	7:00 AM	0:16:00	
352	2006-07	2006	12	2	12/18/2006	H			1		H			1		6:45 AM	4:45 PM	5:15 AM	6:45 AM	7:00 AM	0:15:00	
353	2006-07	2006	12	3	12/19/2006	H			1		H			1		6:45 AM	4:45 PM	5:15 AM	6:45 AM	7:00 AM	0:15:00	
354	2006-07	2006	12	4	12/20/2006	H			1		H			1		6:46 AM	4:46 PM	5:15 AM	6:46 AM	7:00 AM	0:14:00	
355	2006-07	2006	12	5	12/21/2006	H			1		H			1		6:46 AM	4:46 PM	5:15 AM	6:46 AM	7:00 AM	0:14:00	
356	2006-07	2006	12	6	12/22/2006	H			1		H			1		6:47 AM	4:47 PM	5:15 AM	6:47 AM	7:00 AM	0:13:00	
357	2006-07	2006	12	7	12/23/2006	WE		1			WE		1			6:47 AM	4:47 PM	5:15 AM	6:47 AM	7:00 AM	0:13:00	
358	2006-07	2006	12	1	12/24/2006	WE		1			WE		1			6:48 AM	4:48 PM	5:15 AM	6:48 AM	7:00 AM	0:12:00	
359	2006-07	2006	12	2	12/25/2006	H			1		H			1		6:48 AM	4:48 PM	5:15 AM	6:48 AM	7:00 AM	0:12:00	
360	2006-07	2006	12	3	12/26/2006	H			1		H			1		6:49 AM	4:49 PM	5:15 AM	6:49 AM	7:00 AM	0:11:00	
361	2006-07	2006	12	4	12/27/2006	H			1		H			1		6:49 AM	4:50 PM	5:15 AM	6:49 AM	7:00 AM	0:11:00	
362	2006-07	2006	12	5	12/28/2006	H			1		H			1		6:49 AM	4:50 PM	5:15 AM	6:49 AM	7:00 AM	0:11:00	
363	2006-07	2006	12	6	12/29/2006	H			1		H			1		6:50 AM	4:51 PM	5:15 AM	6:50 AM	7:00 AM	0:10:00	
364	2006-07	2006	12	7	12/30/2006	WE		1			WE		1			6:50 AM	4:52 PM	5:15 AM	6:50 AM	7:00 AM	0:10:00	
365	2006-07	2006	12	1	12/31/2006	WE		1			WE		1			6:50 AM	4:52 PM	5:15 AM	6:50 AM	7:00 AM	0:10:00	
							365	184	105	28	48	365	184	105	22	54						

Appendix C: Hours of Operation Analysis Using Sunrise-Sunset Data (continued)

obs	Sunset	PM Beg	PM Beg On-time	PM Off-Time	PM Time Savings	Controlled On-Hours AM	Controlled On-Hours PM	Controlled On-Hours Total	Basecase On-Hours AM	Basecase On-Hours PM	Basecase On-Hours Total	Traditional Controlled Hours	Year Round Controlled Hours
351	4:44 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:29:00	6:00:00	7:29:00	1:45:00	6:00:00	7:45:00		
352	4:45 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:30:00	6:00:00	7:30:00	1:45:00	6:00:00	7:45:00		
353	4:45 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:30:00	6:00:00	7:30:00	1:45:00	6:00:00	7:45:00		
354	4:46 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:31:00	6:00:00	7:31:00	1:45:00	6:00:00	7:45:00		
355	4:46 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:31:00	6:00:00	7:31:00	1:45:00	6:00:00	7:45:00		
356	4:47 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:32:00	6:00:00	7:32:00	1:45:00	6:00:00	7:45:00		
357	4:47 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:32:00	6:00:00	7:32:00	1:45:00	6:00:00	7:45:00		
358	4:48 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:33:00	6:00:00	7:33:00	1:45:00	6:00:00	7:45:00		
359	4:48 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:33:00	6:00:00	7:33:00	1:45:00	6:00:00	7:45:00		
360	4:49 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:34:00	6:00:00	7:34:00	1:45:00	6:00:00	7:45:00		
361	4:50 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:34:00	6:00:00	7:34:00	1:45:00	6:00:00	7:45:00		
362	4:50 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:34:00	6:00:00	7:34:00	1:45:00	6:00:00	7:45:00		
363	4:51 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:35:00	6:00:00	7:35:00	1:45:00	6:00:00	7:45:00		
364	4:52 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:35:00	6:00:00	7:35:00	1:45:00	6:00:00	7:45:00		
365	4:52 PM	5:00 PM	5:00 PM	11:00 PM	0:00:00	1:35:00	6:00:00	7:35:00	1:45:00	6:00:00	7:45:00		
												1063:58:00	1104:00:00

8.4 Appendix D: Occupancy Sensor Field Installation Report

App. D - Occupancy Sensor Field Installation Report: Rest Rooms

Obs	School	ID #	Location					EXISTING FIXTURE										SENSORS	
			Type	Item	Date Complete	Bldg	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty	
1	Adams Elementary	042RR	RR	1	5/23/05	Office	2nd Flr / Mens	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1	
2	Adams Elementary	042RR	RR	2	5/23/05	Office	2nd Flr / Womens	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1	
3	Adams Elementary	042RR	RR	3	5/23/05	Library	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
4	Adams Elementary	042RR	RR	4	5/23/05	Office	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
5	Adams Elementary	042RR	RR	5	5/23/05	Office	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
6	Adams Elementary	042RR	RR	6	5/23/05	100	RR / Coed	Wall Mount Fluorecent	2	24		48	1	2	48	0.05	WS-200	1	
7	Alcott	133RR	RR	1	6/23/05	Kitchen	RR / Coed	1X1 CF	2	0		0	2	4	0	0.00	WS-200	0	
8	Alcott	133RR	RR	2	6/23/05	Main	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
9	Alcott	133RR	RR	3	6/23/05	Main	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
10	Alcott	133RR	RR	3	6/23/05	Main	RR / Womens	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
11	Alcott	133RR	RR	4	6/23/05	Main	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
12	Angier	080RR	RR	1	5/3/05	Main	RR / Coed	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	1	
13	Angier	080RR	RR	2	5/3/05	Main	RR / Coed	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	1	
14	Angier	080RR	RR	3	5/3/05	Patrol Room	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
15	Angier	080RR	RR	4	5/3/05	Assembly	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
16	Angier	080RR	RR	5	5/3/05	Cafeteria	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
17	Angier	080RR	RR	6	5/3/05	Library	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
18	Audubon Elementary	060RR	RR	1	5/27/05	K-2	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
19	Audubon Elementary	060RR	RR	2	5/27/05	K-2	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
20	Audubon Elementary	060RR	RR	3	5/27/05	Cafeteria	RR / Coed	1X4	1	20		20	1	1	20	0.02	WS-200	0.5	
21	Audubon Elementary	060RR	RR	3	5/27/05	Cafeteria	RR / Coed	Flourescent Fixture	2	32		64	1	2	64	0.06	WS-200	0.5	
22	Audubon Elementary	060RR	RR	4	5/27/05	Library	RR / Coed	1X4 Wall Mount	2	32		64	1	2	64	0.06	WS-200	1	
23	Audubon Elementary	060RR	RR	5	5/27/05	Office	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
24	Audubon Elementary	060RR	RR	6	5/27/05	Office	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
25	Audubon Elementary	060RR	RR	7	5/27/05	Office	Nurse RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
26	Baker Elementary	011RR	RR	1	5/17/05	Unknown	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
27	Baker Elementary	011RR	RR	2	5/17/05	Portable	RR / Womens	2 Lamp Strip	2	0		0	2	4	0	0.00	WS-200	0	
28	Baker Elementary	011RR	RR	3	5/17/05	Portable	RR / Mens	2 Lamp Strip	2	0		0	2	4	0	0.00	WS-200	0	
29	Baker Elementary	011RR	RR	4	5/17/05	Office	RR / Womens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
30	Baker Elementary	011RR	RR	5	5/17/05	Office	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
31	Balboa Elementary	010RR	RR	1	5/17/05	100	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
32	Balboa Elementary	010RR	RR	2	5/17/05	Office	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
33	Balboa Elementary	010RR	RR	2	5/17/05	Office	RR / Womens	Sconce CF	2	13		26	1	2	26	0.03	WS-200	0.5	
34	Balboa Elementary	010RR	RR	3	5/17/05	Office	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
35	Balboa Elementary	010RR	RR	3	5/17/05	Office	RR / Mens	Sconce CF	2	13		26	1	2	26	0.03	WS-200	0.5	
36	Balboa Elementary	010RR	RR	4	5/17/05	Kitchen	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
37	Balboa Elementary	010RR	RR	5	5/17/05	300	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
38	Balboa Elementary	010RR	RR	6	5/17/05	300	RR / Womens	1X4 Wrap	2	32		64	3	6	192	0.19	WS-200	1	
39	Bandini Elementary	025RR	RR	1	5/18/05	Main	Office RR / Coed	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
40	Bandini Elementary	025RR	RR	2	5/18/05	Main	Nurse RR	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
41	Bandini Elementary	025RR	RR	3	5/18/05	Main	Office RR / Coed	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
42	Bandini Elementary	025RR	RR	4	5/18/05	Main	RR / Lounge	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
43	Bandini Elementary	025RR	RR	5	5/18/05	Main	Conference / RR	2X4 Surface Mount	2	32		64	2	4	128	0.13	WS-200	1	
44	Bandini Elementary	025RR	RR	6	5/18/05	Main	RR / Cafeteria	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
45	Bandini Elementary	025RR	RR	7	5/18/05	Main	Mens RR / 1st Level	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
46	Bandini Elementary	025RR	RR	8	5/18/05	Main	Womens RR / 1st Level	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
47	Bandini Elementary	025RR	RR	9	5/18/05	Main	Mens RR / 2nd Level	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
48	Bandini Elementary	025RR	RR	10	5/18/05	Main	Womens RR / 2nd Level	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
49	Barnard	068RR	RR	1	5/20/05	Office	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
50	Barnard	068RR	RR	2	5/20/05	Nurse	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
51	Barnard	068RR	RR	3	5/20/05	Office	RR / Womens	1X4	2	0		0	1	2	0	0.00	WS-200	0	
52	Barnard	068RR	RR	4	5/20/05	Cafeteria	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
53	Barnard	068RR	RR	5	5/20/05	Cafeteria	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
54	Barnard	068RR	RR	6	5/20/05	Library	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
55	Barnard	068RR	RR	7	5/20/05	Portable	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
56	Bay Park Elementary	115RR	RR	1	6/20/05	2	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
57	Bay Park Elementary	115RR	RR	2	6/20/05	2	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
58	Bay Park Elementary	115RR	RR	3	6/20/05	Cafeteria	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
59	Bay Park Elementary	115RR	RR	4	6/20/05	Counseling	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
60	Bay Park Elementary	115RR	RR	5	6/20/05	Main	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
61	Bay Park Elementary	115RR	RR	6	6/20/05	Library	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
62	Bay Park Elementary	115RR	RR	7	6/20/05	Bungalos	RR / Mens	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
63	Bay Park Elementary	115RR	RR	8	6/20/05	Bungalos	RR / Womens	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
64	Bayview	124RR	RR	1	6/20/05	Auditorium	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
65	Bayview	124RR	RR	2	6/20/05	Auditorium	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
66	Bayview	124RR	RR	3	6/20/05	Healthy Start	RR / Coed	1X4	1	13		13	1	1	13	0.01	WS-200	1	
67	Bayview	124RR	RR	4	6/20/05	Library	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
68	Bayview	124RR	RR	5	6/20/05	Main	Nurse RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
69	Bell Jr. High	045RR	RR	1	5/24/05	Cafeteria	RR / Coed	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
70	Bell Jr. High	045RR	RR	2	5/24/05	Library	RR / Coed	Wall Mount 1X4	2	32		64	1	2	64	0.06	WS-200	1	
71	Bell Jr. High	045RR	RR	3	5/24/05	Bungalos	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
72	Bell Jr. High	045RR	RR	4	5/24/05	Bungalos	RR / Mens	Ceiling Mount CF	1	0		0	1	1	0	0.00	WS-200	0	
73	Bell Jr. High	045RR	RR	5	5/24/05	300	RR / Womens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
74	Bell Jr. High	045RR	RR	5	5/24/05	300	RR / Womens	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
75	Bell Jr. High	045RR	RR	6	5/24/05	300	RR / Mens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
76	Bell Jr. High	045RR	RR	6	5/24/05	300	RR / Mens	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
77	Bell Jr. High	045RR	RR	7	5/24/05	300	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
78	Bell Jr. High	045RR	RR	8	5/24/05	300	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
79	Bell Jr. High	045RR	RR	9	5/24/05	Office	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
80	Bell Jr. High	045RR	RR	10	5/24/05	Office	RR / Womens	2X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
81	Benchley Elementary	095RR	RR	1	6/7/05	Office	RR / Mens	1X8 Strip	2	32		64	1	2	64	0.06	WS-200	1	
82	Benchley Elementary	095RR	RR	2	6/7/05	Office	RR / Womens	1X8 Strip	2	0		0	1	2	0	0.00	WS-200	0	
83	Benchley Elementary	095RR	RR	3	6/7/05	Library	RR / Mens	1X4 Strip	2	0		0	1	2	0	0			

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location							EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Blgd	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty	
91	Bethune Elementary	056RR	RR	5	5/26/05	600	RR / Mens	1X4 Wrap	2	32		64	3	6	192	0.19	WS-200	1	
92	Bethune Elementary	056RR	RR	5	5/26/05	600	RR / Mens	Wall Mount Fluorescent	1	32		32	1	1	32	0.03	WS-200	1	
93	Birdrock	113RR	RR	1	6/16/05	Main	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
94	Birdrock	113RR	RR	2	6/16/05	Main	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
95	Birdrock	113RR	RR	3	6/16/05	Kitchen	RR / Coed	1X4	1	32		32	1	1	32	0.03	WS-200	1	
96	Birdrock	113RR	RR	4	6/16/05	Library	RR / Coed	1X4	1	32		32	1	1	32	0.03	WS-200	1	
97	Birdrock	113RR	RR	5	6/16/05	Lounge	RR / Mens	1X4	1	32		32	1	1	32	0.03	WS-200	1	
98	Birdrock	113RR	RR	6	6/16/05	Lounge	RR / Womens	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	1	
99	Birdrock	113RR	RR	7	6/16/05	Main	Nurse RR / Coed	Flourescent Fixture	1	13		13	1	1	13	0.01	WS-200	1	
100	Birney Elementary	015RR	RR	1	5/18/05	300	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
101	Birney Elementary	015RR	RR	2	5/18/05	300	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
102	Birney Elementary	015RR	RR	3	5/18/05	18	RR / Mens	1X4	0	32		0	6	0	0	0.00	WS-200	0	
103	Birney Elementary	015RR	RR	4	5/18/05	18	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
104	Birney Elementary	015RR	RR	5	5/18/05	18	RR / Womens	1X4	0	32		0	4	0	0	0.00	WS-200	0	
105	Birney Elementary	015RR	RR	6	5/18/05	21	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
106	Birney Elementary	015RR	RR	7	5/18/05	21	RR	1X4	0	32		0	1	0	0	0.00	WS-200	0	
107	Birney Elementary	015RR	RR	8	5/18/05	Library	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
108	Birney Elementary	015RR	RR	9	5/18/05	Office	RR / Nurse	1X4	2	32		64	1	2	64	0.06	WS-200	1	
109	Birney Elementary	015RR	RR	10	5/18/05	Office	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
110	Boone Elementary	058RR	RR	1	5/27/05	Office	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
111	Boone Elementary	058RR	RR	2	5/27/05	Office	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1	
112	Boone Elementary	058RR	RR	3	5/27/05	Library	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
113	Boone Elementary	058RR	RR	4	5/27/05	Nurse	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
114	Boone Elementary	058RR	RR	5	5/27/05	Rm 18	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
115	Boone Elementary	058RR	RR	6	5/27/05	Rm 18	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
116	Boone Elementary	058RR	RR	7	5/27/05	Bungalos	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
117	Boone Elementary	058RR	RR	8	5/27/05	Bungalos	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
118	Brooklyn Elementary	003RR	RR	1	5/17/05	Staff Lounge	RR	1X4	2	32		64	3	6	192	0.19	WS-200	1	
119	Brooklyn Elementary	003RR	RR	2	5/17/05	Staff Lounge	RR	1X4	2	32		64	3	6	192	0.19	WS-200	1	
120	Brooklyn Elementary	003RR	RR	3	5/17/05	2nd Floor	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
121	Brooklyn Elementary	003RR	RR	4	5/17/05	2nd Floor	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
122	Burbank Elementary	026RR	RR	1	5/18/05	Main	Office RR / Womens	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1	
123	Burbank Elementary	026RR	RR	1	5/18/05	Main	Office RR / Womens	Ceiling Mount CF	1	27		27	1	1	27	0.03	WS-200	1	
124	Burbank Elementary	026RR	RR	2	5/18/05	Main	Office RR / Mens	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1	
125	Burbank Elementary	026RR	RR	3	5/18/05	Main	Bungalos	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
126	Cabrillo Elementary	008RR	RR	1	5/17/05	O3-O3	RR	1X1	3	89		267	1	3	267	0.27	WS-200	1	
127	Cabrillo Elementary	008RR	RR	2	5/17/05	O6-O6	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
128	Cabrillo Elementary	008RR	RR	3	5/17/05	O6-O6	Hallway	1X4	1	32		32	1	1	32	0.03	WS-200	1	
129	Cabrillo Elementary	008RR	RR	4	5/17/05	O6-O6	RR	1X4	1	32		32	1	1	32	0.03	WS-200	1	
130	Cabrillo Elementary	008RR	RR	5	5/17/05	O3-O3	Hallway	1X4	2	0		0	1	2	0	0.00	WS-200	0	
131	Cadman Elementary	143RR	RR	1	10/3/05	Cafeteria	RR / Coed	Surface Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
132	Cadman Elementary	143RR	RR	2	10/3/05	Class C	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
133	Cadman Elementary	143RR	RR	3	10/3/05	Library	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
134	Cadman Elementary	143RR	RR	4	10/3/05	Music	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
135	Cadman Elementary	143RR	RR	5	10/3/05	Main	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
136	Carson Elementary	116RR	RR	1	6/21/05	Library	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0	
137	Carson Elementary	116RR	RR	2	6/21/05	Main	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
138	Carson Elementary	116RR	RR	3	6/21/05	Main	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
139	Carson Elementary	116RR	RR	4	6/21/05	Main	RR / Womens	1X4 Wrap	2	0		0	2	4	0	0.00	WS-200	0	
140	Carson Elementary	116RR	RR	5	6/21/05	Main	RR / Mens	1X4 Wrap	2	0		0	2	4	0	0.00	WS-200	0	
141	Carson Elementary	116RR	RR	6	6/21/05	Cafeteria	RR / Coed	Ceiling Mount Round	1	26		26	2	2	52	0.05	WS-200	1	
142	Carson Elementary	116RR	RR	7	6/21/05	Main	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
143	Carson Elementary	116RR	RR	8	6/21/05	Main	RR / Coed	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
144	Carver	070RR	RR	1	5/23/05	Nurse	RR / Coed	1X4	1	32		32	1	1	32	0.03	WS-200	1	
145	Carver	070RR	RR	2	5/23/05	Office	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
146	Carver	070RR	RR	3	5/23/05	Office	RR / Mens	1X4	2	32		64	2	4	128	0.13	WS-200	1	
147	Central	069RR	RR	1	5/23/05	Staff Lounge	RR / Womens	Ceiling Mount CF	2	14		28	3	6	84	0.08	WS-200	1	
148	Central	069RR	RR	2	5/23/05	Staff Lounge	RR / Mens	Ceiling Mount CF	2	14		28	3	6	84	0.08	WS-200	1	
149	Challenger	118RR	RR	1	6/21/05	Office	RR / Mens	1X4 Priz	2	0		0	3	6	0	0.00	WS-200	0	
150	Challenger	118RR	RR	2	6/21/05	Office	RR / Womens	1X4 Priz	2	0		0	3	6	0	0.00	WS-200	0	
151	Challenger	118RR	RR	3	6/21/05	Main	Nurse RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
152	Challenger	118RR	RR	4	6/21/05	Auditorium	RR / Womens	1X4 Priz	2	32		64	3	6	192	0.19	WS-200	1	
153	Challenger	118RR	RR	5	6/21/05	Auditorium	RR / Mens	1X4 Priz	2	32		64	3	6	192	0.19	WS-200	1	
154	Challenger	118RR	RR	6	6/21/05	500	RR / Womens	1X4 Priz	2	0		0	5	10	0	0.00	WS-200	0	
155	Challenger	118RR	RR	7	6/21/05	500	RR / Mens	1X4 Priz	2	0		0	6	12	0	0.00	WS-200	0	
156	Challenger	118RR	RR	8	6/21/05	900	RR / Womens	1X1 Can	2	26		52	4	8	208	0.21	WS-200	1	
157	Challenger	118RR	RR	9	6/21/05	900	RR / Womens	1X4 Stnp	2	32		64	1	2	64	0.06	WS-200	1	
158	Challenger	118RR	RR	10	6/21/05	Supply	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
159	Challenger	118RR	RR	11	6/21/05	Cafeteria	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
160	Chavez Elementary	152RR	RR	1	10/6/05	Office	RR / Mens	1X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
161	Chavez Elementary	152RR	RR	2	10/6/05	Office	RR / Womens	1X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
162	Chavez Elementary	152RR	RR	3	10/6/05	Cafeteria	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
163	Chavez Elementary	152RR	RR	4	10/6/05	Auditorium	RR / Mens	2X4 Priz	2	0		0	4	8	0	0.00	WS-200	0	
164	Chavez Elementary	152RR	RR	5	10/6/05	Auditorium	RR / Womens	2X4 Priz	2	0		0	4	8	0	0.00	WS-200	0	
165	Chesterton	119RR	RR	1	6/21/05	Auditorium	RR / Mens	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
166	Chesterton	119RR	RR	2	6/21/05	Auditorium	RR / Womens	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
167	Chesterton	119RR	RR	3	6/21/05	Cafeteria	RR / Coed	1X1 CF	2	26		52	2	4	104	0.10	WS-200	1	
168	Chesterton	119RR	RR	4	6/21/05	300	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
169	Chesterton	119RR	RR	5	6/21/05	300	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
170	Chesterton	119RR	RR	6	6/21/05	400	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
171	Chesterton	119RR	RR	7	6/21/05	400	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
172	Chesterton	119RR	RR	8	6/21/05	500	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
173	Chesterton	119RR	RR	9	6/21/05	500	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location							EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Blgd	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty	
181	Claremont High	136RR	RR	3	6/24/05	400	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
182	Claremont High	136RR	RR	4	6/24/05	200	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
183	Claremont High	136RR	RR	5	6/24/05	200	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
184	Claremont High	136RR	RR	6	6/24/05	Cafeteria	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
185	Claremont High	136RR	RR	7	6/24/05	Library	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
186	Claremont High	136RR	RR	8	6/24/05	Bungalos	RR / Mens	??		0		0	0	0	0.00	WS-200	0		
187	Claremont High	136RR	RR	9	6/24/05	Bungalos	RR / Womens	??		0		0	0	0	0.00	WS-200	0		
188	Claremont High	136RR	RR	10	6/24/05	Main	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
189	Claremont High	136RR	RR	11	6/24/05	Main	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
190	Claremont High	136RR	RR	12	6/24/05	Office	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
191	Claremont High	136RR	RR	13	6/24/05	Office	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
192	Clark	072RR	RR	1	5/24/05	Cafeteria	RR	1 Lamp Strip	2	32		64	4	8	256	0.26	WS-200	1	
193	Clark	072RR	RR	2	5/24/05	Cafeteria	RR	1 Lamp Strip	2	32		64	4	8	256	0.26	WS-200	1	
194	Clark	072RR	RR	3	5/24/05	100	RR	1 Lamp Strip	2	32		64	1	2	64	0.06	WS-200	1	
195	Clark	072RR	RR	4	5/24/05	100	RR	1 Lamp Strip	2	32		64	1	2	64	0.06	WS-200	1	
196	Clark	072RR	RR	5	5/24/05	100	RR	1 Lamp Strip	2	32		64	1	2	64	0.06	WS-200	1	
197	Clark	072RR	RR	6	5/24/05	100	RR	1 Lamp Strip	2	32		64	1	2	64	0.06	WS-200	1	
198	Clark	072RR	RR	7	5/24/05	200	RR	1 Lamp Strip	2	32		64	1	2	64	0.06	WS-200	1	
199	Clark	072RR	RR	8	5/24/05	200	RR	1 Lamp Strip	2	32		64	1	2	64	0.06	WS-200	1	
200	Clark	072RR	RR	9	5/24/05	200	RR	1 Lamp Strip	2	32		64	1	2	64	0.06	WS-200	1	
201	Clark	072RR	RR	10	5/24/05	500	RR	1 Lamp Strip	2	32		64	1	2	64	0.06	WS-200	1	
202	Clark	072RR	RR	11	5/24/05	500	RR	2x4	2	32		64	1	2	64	0.06	WS-200	1	
203	Clark	072RR	RR	12	5/24/05	400	RR	2x4	2	32		64	2	4	128	0.13	WS-200	1	
204	Clark	072RR	RR	13	5/24/05	400	RR	2x4	2	32		64	1	2	64	0.06	WS-200	1	
205	Clark	072RR	RR	14	5/24/05	300	RR	2x4	2	32		64	2	4	128	0.13	WS-200	1	
206	Clark	072RR	RR	15	5/24/05	300	RR	1x4	2	32		64	1	2	64	0.06	WS-200	1	
207	Clay Elementary	040RR	RR	1	5/25/05	Library	RR	Flourescent Fixture	2	0		0	2	4	0	0.00	WS-200	0	
208	Clay Elementary	040RR	RR	2	5/25/05	Rm 5	RR	1x4	2	32		64	1	2	64	0.06	WS-200	1	
209	Clay Elementary	040RR	RR	3	5/25/05	Faculty Lounge	RR	1x4	2	32		64	1	2	64	0.06	WS-200	1	
210	Clay Elementary	040RR	RR	4	5/25/05	Nurse	RR / Coed	1x4	2	32		64	1	2	64	0.06	WS-200	1	
211	Corneia	066RR	RR	1	5/19/05	Auditorium	RR / Mens	1x4	2	32		64	2	4	128	0.13	WS-200	1	
212	Corneia	066RR	RR	2	5/19/05	Auditorium	RR / Womens	1x4	2	32		64	2	4	128	0.13	WS-200	1	
213	Corneia	066RR	RR	3	5/19/05	400	RR / Mens	1x4	2	32		64	2	4	128	0.13	WS-200	1	
214	Corneia	066RR	RR	4	5/19/05	Admin	RR / Coed	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
215	Corneia	066RR	RR	5	5/19/05	Admin	Hallway	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
216	Corneia	066RR	RR	6	5/19/05	200	RR / Mens	1x4	2	32		64	1	2	64	0.06	WS-200	1	
217	Corneia	066RR	RR	7	5/19/05	200	RR / Womens	1x4	2	32		64	1	2	64	0.06	WS-200	1	
218	Corneia	066RR	RR	8	5/19/05	Library	RR / Coed	2x4	2	32		64	1	2	64	0.06	WS-200	1	
219	Corneia	066RR	RR	9	5/19/05	PE	RR / Womens	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
220	Corneia	066RR	RR	10	5/19/05	PE	Hallway	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
221	Corneia	066RR	RR	11	5/19/05	PE	Shower	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
222	Corneia	066RR	RR	12	5/19/05	Cafeteria	Hallway	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
223	Corneia	066RR	RR	13	5/19/05	Cafeteria	RR / Coed	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
224	Corneia	066RR	RR	14	5/19/05	Bungalos	RR / Mens	2x4	2	32		64	1	2	64	0.06	WS-200	1	
225	Corneia	066RR	RR	15	5/19/05	Bungalos	RR / Womens	2x4	2	32		64	1	2	64	0.06	WS-200	1	
226	Corneia	066RR	RR	16	5/19/05	PE	RR / Mens	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
227	Corneia	066RR	RR	17	5/19/05	PE	Hallway	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
228	Corneia	066RR	RR	18	5/19/05	PE	Shower	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
229	Crawford High	039RR	RR	1	5/25/05	600	RR / Womens	1x4	1	32		32	2	2	64	0.06	WS-200	1	
230	Crawford High	039RR	RR	1	5/25/05	600	RR / Womens	Flourescent Fixture	1	13		13	1	1	13	0.01	WS-200	1	
231	Crawford High	039RR	RR	2	5/25/05	800	RR / Mens	1x4	1	32		32	3	3	96	0.10	WS-200	1	
232	Crawford High	039RR	RR	3	5/25/05	800	RR / Womens	1x4	1	32		32	3	3	96	0.10	WS-200	1	
233	Crawford High	039RR	RR	4	5/25/05	500	RR / Womens	1x4	1	32		32	2	2	64	0.06	WS-200	2	
234	Crawford High	039RR	RR	5	5/25/05	300	RR / Mens	1x4	2	32		64	2	4	128	0.13	WS-200	1	
235	Crawford High	039RR	RR	6	5/25/05	300	RR / Womens	1x4	2	32		64	2	4	128	0.13	WS-200	1	
236	Crawford High	039RR	RR	7	5/25/05	Main Office	RR / Mens	Flourescent Fixture	1	13		13	2	2	26	0.03	WS-200	1	
237	Crawford High	039RR	RR	8	5/25/05	Main Office	RR / Womens	1x4	1	32		32	1	1	32	0.03	WS-200	1	
238	Crown Point	129RR	RR	1	6/21/05	Kitchen	RR / Coed	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	1	
239	Crown Point	129RR	RR	2	6/21/05	303	RR / Womens	1x4	2	32		64	1	2	64	0.06	WS-200	1	
240	Crown Point	129RR	RR	3	6/21/05	303	RR / Mens	1x4	2	32		64	1	2	64	0.06	WS-200	1	
241	Crown Point	129RR	RR	4	6/21/05	206	RR / Coed	1x4	2	32		64	1	2	64	0.06	WS-200	1	
242	Crown Point	129RR	RR	5	6/21/05	205	RR / Coed	1x4	2	32		64	1	2	64	0.06	WS-200	1	
243	Cubberly	081RR	RR	1	6/3/05	Conference	RR / Mens	1x4	2	32		64	1	2	64	0.06	WS-200	1	
244	Cubberly	081RR	RR	2	6/3/05	Conference	RR / Womens	1x4	2	32		64	1	2	64	0.06	WS-200	1	
245	Cubberly	081RR	RR	3	6/3/05	Library	RR / Coed	1x4	2	32		64	1	2	64	0.06	WS-200	1	
246	Cubberly	081RR	RR	4	6/3/05	Cafeteria	RR / Coed	1x4	2	32		64	1	2	64	0.06	WS-200	1	
247	Cubberly	081RR	RR	5	6/3/05	Main Office	Nurse RR / Coed	1x4	2	32		64	1	2	64	0.06	WS-200	1	
248	Cune Elementary	145RR	RR	1	10/3/05	Office	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
249	Cune Elementary	145RR	RR	2	10/3/05	Office	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
250	Dallard	074RR	RR	1	6/1/05	100	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
251	Dallard	074RR	RR	2	6/1/05	100	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
252	Dallard	074RR	RR	3	6/1/05	200	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
253	Dallard	074RR	RR	4	6/1/05	200	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
254	Dallard	074RR	RR	5	6/1/05	300	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
255	Dallard	074RR	RR	6	6/1/05	300	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
256	Dallard	074RR	RR	7	6/1/05	400	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
257	Dallard	074RR	RR	8	6/1/05	400	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
258	Dallard	074RR	RR	9	6/1/05	Cafeteria	RR / Coed	2X4	2	32		64	2	4	128	0.13	WS-200	2	
259	Dallard	074RR	RR	10	6/1/05	Main Office	RR / Coed	2X4	2	32		64	2	4	128	0.13	WS-200	1	
260	Dallard	074RR	RR	11	6/1/05	Main Office	RR / Coed	2X4	2	32		64	2	4	128	0.13	WS-200	1	
261	Dallard	074RR	RR	12	6/1/05	Main Office	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
262	Dana Middle	007RR	RR	1	5/17/05	Library	RR	1x4	2	32		64	1	2	64	0.06	WS-200	1	
263	Dana Middle	007RR	RR	2	5/17/05	Main	RR / Womens	2x4	2	32		64	2	4	128	0.13	WS-200	1	
264	Dana Middle	007RR																	

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location							EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Blgd	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty	
271	Deportola	088RR	RR	5	6/6/05	C-102	RR / Mens	1X4	1	32		32	2	2	64	0.06	WS-200	1	
272	Deportola	088RR	RR	6	6/6/05	Bungalos	RR / Mens	2X4	4	34		136	1	4	136	0.14	WS-200	1	
273	Deportola	088RR	RR	7	6/6/05	Bungalos	RR / Womens	2X4	4	34		136	1	4	136	0.14	WS-200	1	
274	Dewey	067RR	RR	1	5/20/05	Speech	RR / Coed	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
275	Dewey	067RR	RR	2	5/20/05	Nurse	RR / Coed	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
276	Dewey	067RR	RR	3	5/20/05	Office	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
277	Dewey	067RR	RR	4	5/20/05	Office	RR / Mens	1X4	2	32		64	2	4	128	0.13	WS-200	1	
278	Dewey	067RR	RR	5	5/20/05	Storage	RR / Coed	Ceiling Mount CF	2	14		28	1	2	28	0.03	WS-200	1	
279	Dewey	067RR	RR	6	5/20/05	Cafeteria	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
280	Dewey	067RR	RR	7	5/20/05	Office	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
281	Dingeman	106RR	RR	1	6/14/05	Lounge	RR / Mens	1X4	2	0		0	2	4	0	0.00	WS-200	0	
282	Dingeman	106RR	RR	2	6/14/05	Lounge	RR / Womens	1X4	2	0		0	2	4	0	0.00	WS-200	0	
283	Dingeman	106RR	RR	3	6/14/05	Nurse	RR / Coed	1X4	2	32		64	2	4	128	0.13	WS-200	1	
284	Dingeman	106RR	RR	4	6/14/05	B-14	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
285	Dingeman	106RR	RR	5	6/14/05	Kitchen	RR / Coed	1X4	2	32		64	2	4	128	0.13	WS-200	2	
286	Doyle	148RR	RR	1	9/27/05	Admin	RR / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
287	Doyle	148RR	RR	2	9/27/05	Admin	RR / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
288	Doyle	148RR	RR	3	9/27/05	Admin	Nurse RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
289	Doyle	148RR	RR	3	9/27/05	Admin	Nurse RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
290	Doyle	148RR	RR	4	9/27/05	Kitchen	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
291	Doyle	148RR	RR	5	9/27/05	600	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
292	Doyle	148RR	RR	6	9/27/05	600	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
293	Doyle	148RR	RR	7	9/27/05	500	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
294	Doyle	148RR	RR	8	9/27/05	500	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
295	Doyle	148RR	RR	9	9/27/05	400	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
296	Doyle	148RR	RR	10	9/27/05	400	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
297	Doyle	148RR	RR	11	9/27/05	300	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
298	Doyle	148RR	RR	12	9/27/05	300	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
299	Edison Elementary	146RR	RR	1	10/3/05	New	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
300	Edison Elementary	146RR	RR	2	10/3/05	New	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
301	Edison Elementary	146RR	RR	3	10/3/05	Kitchen	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
302	Edison Elementary	146RR	RR	4	10/3/05	600	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
303	Edison Elementary	146RR	RR	5	10/3/05	600	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
304	Edison Elementary	146RR	RR	6	10/3/05	Office	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
305	Edison Elementary	146RR	RR	7	10/3/05	Office	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
306	Edison Elementary	146RR	RR	8	10/3/05	Nurse	RR / Coed	Unknown	0	0		0	0	0	0	0.00	WS-200	0	
307	Edison Elementary	146RR	RR	9	10/3/05	118	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
308	Edison Elementary	146RR	RR	10	10/3/05	118	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
309	Edison Elementary	146RR	RR	11	10/3/05	Bungalos	RR / Coed	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
310	Emerson Elementary	009RR	RR	1	5/17/05	Office	Nurse RR	2 lamp Sconce	2	13		26	1	2	26	0.03	WS-200	1	
311	Emerson Elementary	009RR	RR	2	5/17/05	Office	RR / Mens	2X2 Prismatic (2 lamp, 17w)	2	0		0	4	8	0	0.00	WS-200	0	
312	Emerson Elementary	009RR	RR	3	5/17/05	Office	RR / Womens	2X2 PPL	2	0		0	2	4	0	0.00	WS-200	0	
313	Emerson Elementary	009RR	RR	3	5/17/05	Office	RR / Womens	2X4 Priz	2	0		0	2	4	0	0.00	WS-200	0	
314	Emerson Elementary	009RR	RR	4	5/17/05	Bungalos	RR / Coed	1X4	2	32		64	1	1	64	0.06	WS-200	1	
315	Encanto Elementary	059RR	RR	1	5/27/05	Bungalos	RR	Flourescent Fixture	1	13		13	1	1	13	0.01	WS-200	1	
316	Encanto Elementary	059RR	RR	2	5/27/05	300	RR / Coed	1X4	2	32		64	2	4	128	0.13	WS-200	1	
317	Encanto Elementary	059RR	RR	3	5/27/05	300	RR / Coed	1X4	2	32		64	2	4	128	0.13	WS-200	1	
318	Encanto Elementary	059RR	RR	4	5/27/05	400	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
319	Encanto Elementary	059RR	RR	5	5/27/05	400	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
320	Encanto Elementary	059RR	RR	6	5/27/05	600	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
321	Encanto Elementary	059RR	RR	7	5/27/05	600	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
322	Ericson Elementary	099RR	RR	1	6/9/05	Bungalos	RR / Womens	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
323	Ericson Elementary	099RR	RR	2	6/9/05	Bungalos	RR / Mens	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
324	Ericson Elementary	099RR	RR	3	6/9/05	100	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
325	Ericson Elementary	099RR	RR	4	6/9/05	100	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
326	Ericson Elementary	099RR	RR	5	6/9/05	300	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
327	Ericson Elementary	099RR	RR	6	6/9/05	300	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
328	Ericson Elementary	099RR	RR	7	6/9/05	400	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
329	Ericson Elementary	099RR	RR	8	6/9/05	400	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
330	Ericson Elementary	099RR	RR	9	6/9/05	Cafeteria	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
331	Ericson Elementary	099RR	RR	10	6/9/05	Office	RR / Womens	2X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
332	Ericson Elementary	099RR	RR	11	6/9/05	Office	RR / Mens	2X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
333	Ericson Elementary	099RR	RR	12	6/9/05	Office	Nurse RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
334	Ericson Elementary	099RR	RR	13	6/9/05	Office	RR / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
335	Ericson Elementary	099RR	RR	14	6/9/05	Office	RR / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
336	Euclid Elementary	052RR	RR	1	5/26/05	Nurse	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
337	Euclid Elementary	052RR	RR	2	5/26/05	A	RR / Mens	1X4	2	32		64	2	4	128	0.13	WS-200	1	
338	Euclid Elementary	052RR	RR	3	5/26/05	A	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
339	Euclid Elementary	052RR	RR	4	5/26/05	C	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
340	Euclid Elementary	052RR	RR	5	5/26/05	C	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
341	Euclid Elementary	052RR	RR	6	5/26/05	D	RR / Coed	1X4	1	32		32	1	1	32	0.03	WS-200	1	
342	Euclid Elementary	052RR	RR	7	5/26/05	Cafeteria	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
343	Euclid Elementary	052RR	RR	8	5/26/05	Auditorium	RR / Mens	1X4	2	32		64	2	4	128	0.13	WS-200	1	
344	Euclid Elementary	052RR	RR	9	5/26/05	Auditorium	RR / Womens	1X4	2	32		64	2	4	128	0.13	WS-200	1	
345	Farb	085RR	RR	1	6/6/05	4200	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
346	Farb	085RR	RR	2	6/6/05	4200	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
347	Farb	085RR	RR	3	6/6/05	4378	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
348	Farb	085RR	RR	4	6/6/05	4378	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
349	Farb	085RR	RR	5	6/6/05	4256	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
350	Farb	085RR	RR	6	6/6/05	4256	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
351	Farb	085RR	RR	7	6/6/05	4256	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
352	Farb	085RR	RR	8	6/6/05	4256	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
353	Farb	085RR	RR	9	6/6/05	PE	RR	1X4	2	32									



App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location							EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Blgd	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty	
361	Field Elementary	137RR	RR	4	6/24/05	Library	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
362	Field Elementary	137RR	RR	5	6/24/05	Library	RR / Mens	1X4 Priz	2	0		0	2	4	0	0.00	WS-200	0	
363	Field Elementary	137RR	RR	6	6/24/05	Library	RR / Womens	1X4 Priz	2	0		0	2	4	0	0.00	WS-200	0	
364	Field Elementary	137RR	RR	7	6/24/05	Main	RR / Mens	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1	
365	Field Elementary	137RR	RR	8	6/24/05	Cafeteria	RR / Coed	1X1 CF	2	26		52	2	4	104	0.10	WS-200	1	
366	Fletcher Elementary	144RR	RR	1	9/21/05	Main	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
367	Fletcher Elementary	144RR	RR	2	9/21/05	Main	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
368	Fletcher Elementary	144RR	RR	3	9/21/05	Main	Nurse RR / Coed	2X2 U/lamp	2	26		52	1	2	52	0.05	WS-200	1	
369	Fletcher Elementary	144RR	RR	4	9/21/05	CDC	RR / Coed	1X1 CF	2	0		0	1	2	0	0.00	WS-200	0	
370	Florence Elementary	016RR	RR	1	5/19/05	Main	RR / Nurse	1X4	2	32		64	1	2	64	0.06	WS-200	1	
371	Florence Elementary	016RR	RR	2	5/19/05	Main	RR / Hallway	1X4	2	32		64	1	2	64	0.06	WS-200	1	
372	Florence Elementary	016RR	RR	3	5/19/05	Main	RR / Hallway	1X4	2	32		64	1	2	64	0.06	WS-200	1	
373	Florence Elementary	016RR	RR	4	5/19/05	Main	RR / Stage	1X4	2	32		64	1	2	64	0.06	WS-200	0.5	
374	Florence Elementary	016RR	RR	4	5/19/05	Main	RR / Stage	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	0.5	
375	Florence Elementary	016RR	RR	5	5/19/05	Main	RR / Stage	1X4	2	32		64	1	2	64	0.06	WS-200	0.5	
376	Florence Elementary	016RR	RR	5	5/19/05	Main	RR / Stage	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	0.5	
377	Florence Elementary	016RR	RR	6	5/19/05	Main	RR / 106	1 Lamp Fixture	1	32		32	1	1	32	0.03	WS-200	1	
378	Florence Elementary	016RR	RR	7	5/19/05	Main	RR / Library	1X4	1	32		32	1	1	32	0.03	WS-200	1	
379	Foster	075RR	RR	1	6/20/05	Supply	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	0.5	
380	Foster	075RR	RR	1	6/20/05	Supply	RR / Coed	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	0.5	
381	Foster	075RR	RR	2	6/20/05	Supply	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	0.5	
382	Foster	075RR	RR	2	6/20/05	Supply	RR / Coed	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	0.5	
383	Foster	075RR	RR	3	6/20/05	Rm 21	RR / Coed	Flourescent Fixture	2	0		0	2	4	0	0.00	WS-200	0	
384	Franklin Elementary	046RR	RR	1	5/24/05	Rm 14	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
385	Franklin Elementary	046RR	RR	2	5/24/05	Rm 14	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
386	Franklin Elementary	046RR	RR	3	5/24/05	Main	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
387	Franklin Elementary	046RR	RR	4	5/24/05	Main	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
388	Franklin Elementary	046RR	RR	5	5/24/05	Main	Nurse RR / Coed	1X4 Wrap	1	26		26	1	1	26	0.03	WS-200	1	
389	Franklin Elementary	046RR	RR	6	5/24/05	Office	VP Office RR / Coed	Wall Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
390	Franklin Elementary	046RR	RR	7	5/24/05	Office	Principal Office / Coed	Wall Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
391	Freese	073RR	RR	1	6/1/05	Rm 31	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
392	Freese	073RR	RR	2	6/1/05	Rm 31	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
393	Freese	073RR	RR	3	6/1/05	Main	RR	1X4	2	0		0	2	4	0	0.00	WS-200	0	
394	Freese	073RR	RR	4	6/1/05	Main	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
395	Freese	073RR	RR	5	6/1/05	Library	RR	1X4	2	0		0	1	2	0	0.00	WS-200	0	
396	Freese	073RR	RR	6	6/1/05	Bungalos	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
397	Fulton Elementary	028RR	RR	1	5/23/05	Main	Hallway RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
398	Fulton Elementary	028RR	RR	2	5/23/05	Main	Hallway RR / Womens	1X4	2	32		64	2	4	128	0.13	WS-200	1	
399	Fulton Elementary	028RR	RR	3	5/23/05	Main	RR / Mens	2X4	4	32		128	1	4	128	0.13	WS-200	1	
400	Fulton Elementary	028RR	RR	4	5/23/05	Main	RR / Womens	2X4	4	32		128	1	4	128	0.13	WS-200	1	
401	Gage Elementary	096RR	RR	1	6/7/05	9	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
402	Gage Elementary	096RR	RR	1	6/7/05	9	RR / Womens	Wall Mount CF	2	26		52	1	2	52	0.05	WS-200	0.5	
403	Gage Elementary	096RR	RR	2	6/7/05	9	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
404	Gage Elementary	096RR	RR	2	6/7/05	9	RR / Mens	Wall Mount CF	2	26		52	1	2	52	0.05	WS-200	0.5	
405	Gage Elementary	096RR	RR	3	6/7/05	Office	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
406	Gage Elementary	096RR	RR	3	6/7/05	Office	RR / Coed	Wall Mount CF	2	26		52	1	2	52	0.05	WS-200	0.5	
407	Gage Elementary	096RR	RR	4	6/7/05	Office	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
408	Gage Elementary	096RR	RR	4	6/7/05	Office	RR / Womens	Wall Mount CF	2	26		52	1	2	52	0.05	WS-200	0.5	
409	Garfield Elementary	020RR	RR	1	5/19/05	Main	RR / Mens	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
410	Garfield Elementary	020RR	RR	2	5/19/05	Main	RR / Womens	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
411	Garfield Elementary	020RR	RR	3	5/19/05	Main	Mens Lounge	1X4 Wrap	2	32		64	3	6	192	0.19	WS-200	1	
412	Garfield Elementary	020RR	RR	4	5/19/05	Main	Womens Lounge	1X4 Wrap	2	32		64	3	6	192	0.19	WS-200	1	
413	Garfield High	021RR	RR	1	5/20/05	Main	RR / Cafeteria	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
414	Garfield High	021RR	RR	2	5/20/05	Main	1st Floor / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
415	Garfield High	021RR	RR	3	5/20/05	Main	1st Floor / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
416	Garfield High	021RR	RR	4	5/20/05	Main	Office RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
417	Garfield High	021RR	RR	5	5/20/05	Main	2nd Floor / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
418	Garfield High	021RR	RR	6	5/20/05	Main	2nd Floor / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
419	Garfield High	021RR	RR	7	5/20/05	Main	3rd Floor / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
420	Garfield High	021RR	RR	8	5/20/05	Main	3rd Floor / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
421	Garfield High	021RR	RR	9	5/20/05	Main	4th Floor / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
422	Garfield High	021RR	RR	10	5/20/05	Main	4th Floor / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
423	Garfield High	021RR	RR	11	5/20/05	Main	Oracle / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
424	Garfield High	021RR	RR	12	5/20/05	Main	Faculty Lounge / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
425	Garfield High	021RR	RR	13	5/20/05	Main	Faculty Lounge / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
426	Gompers Secondary	018RR	RR	1	05/20/05	Main	Nurse RR	Wall Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
427	Gompers Secondary	018RR	RR	2	05/20/05	Main	Magnet Office	Wall Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
428	Gompers Secondary	018RR	RR	3	05/20/05	Main	RR / Coed	Wall Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
429	Gompers Secondary	018RR	RR	4	05/20/05	Library	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
430	Gompers Secondary	018RR	RR	5	05/20/05	300	RR / Womens	Wall Mount Flourescent	2	17		34	1	2	34	0.03	WS-200	0.5	
431	Gompers Secondary	018RR	RR	5	05/20/05	300	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
432	Gompers Secondary	018RR	RR	6	05/20/05	300	RR / Mens	Wall Mount Flourescent	2	17		34	1	2	34	0.03	WS-200	0.5	
433	Gompers Secondary	018RR	RR	6	05/20/05	300	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
434	Gompers Secondary	018RR	RR	7	05/20/05	PE	RR / Mens	Wall Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
435	Gompers Secondary	018RR	RR	8	05/20/05	PE	RR / Womens	Wall Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
436	Gompers Secondary	018RR	RR	9	05/20/05	Cafeteria	RR / Coed	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
437	Gompers Secondary	018RR	RR	10	05/20/05	Plant Ops	RR / Coed	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
438	Gompers Secondary	018RR	RR	11	05/20/05	Auditorium	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
439	Gompers Secondary	018RR	RR	12	05/20/05	Auditorium	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
440	Grant Elementary	017RR	RR	1	5/19/05	Main	RR	2X4	2	32		64	1	2	64	0.06	WS-200	1	
441	Grant Elementary	017RR	RR	2	5/19/05	Main	RR	2X4	2	32		64	1	2	64	0.06	WS-200	0.5	
442	Grant Elementary	017RR	RR	2	5/19/05	Main	RR	2 Lamp Fixture (F17/T8)	1	17		17	1	1	17	0.02	WS-200	0.5	
443	Grant Elementary	017RR	RR	3	5/19/05	Unknown	RR / Upper Loft	1X4	2	32		64	4	8	256	0.26	WS-200	1	

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location							EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Blgd	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty	
451	Green Elementary	098RR	RR	3	6/8/05	Office	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
452	Green Elementary	098RR	RR	4	6/8/05	30	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
453	Green Elementary	098RR	RR	5	6/8/05	30	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
454	Green Elementary	098RR	RR	6	6/8/05	20	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
455	Green Elementary	098RR	RR	7	6/8/05	20	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
456	Green Elementary	098RR	RR	8	6/8/05	10	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
457	Green Elementary	098RR	RR	9	6/8/05	10	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
458	Hage Elementary	100RR	RR	1	6/9/05	Office	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
459	Hage Elementary	100RR	RR	2	6/9/05	Office	RR / Womens	1X4 Wrap	1	32		32	4	4	128	0.13	WS-200	1	
460	Hage Elementary	100RR	RR	3	6/9/05	Office	RR / Mens	1X4 Wrap	1	32		32	4	4	128	0.13	WS-200	1	
461	Hamilton Elementary	061RR	RR	1	5/27/05	Main	RR / Downstairs Mens	1X4	2	32		64	2	4	128	0.13	WS-200	0.5	
462	Hamilton Elementary	061RR	RR	1	5/27/05	Main	RR / Downstairs Mens	2X2	2	17		34	1	2	34	0.03	WS-200	0.5	
463	Hamilton Elementary	061RR	RR	2	5/27/05	Main	RR / Downstairs Womens	1X4	2	32		64	2	4	128	0.13	WS-200	0.5	
464	Hamilton Elementary	061RR	RR	2	5/27/05	Main	RR / Downstairs Womens	2X2	2	17		34	1	2	34	0.03	WS-200	0.5	
465	Hamilton Elementary	061RR	RR	3	5/27/05	Main	RR / Upstairs Mens	1X4	2	32		64	2	4	128	0.13	WS-200	1	
466	Hamilton Elementary	061RR	RR	4	5/27/05	Main	RR / Upstairs Womens	1X4	2	32		64	2	4	128	0.13	WS-200	1	
467	Hamilton Elementary	061RR	RR	5	5/27/05	Bungalos	RR / Mens	2X4	4	32		128	1	4	128	0.13	WS-200	1	
468	Hamilton Elementary	061RR	RR	6	5/27/05	Bungalos	RR / Womens	2X4	4	32		128	1	4	128	0.13	WS-200	1	
469	Hamilton Elementary	061RR	RR	7	5/27/05	Main	RR / Mens	Flourescent Fixture	2	0		0	2	4	0	0.00	WS-200	0	
470	Hamilton Elementary	061RR	RR	7	5/27/05	Main	RR / Mens	1 Lamp Fixture	1	0		0	1	1	0	0.00	WS-200	0	
471	Hamilton Elementary	061RR	RR	8	5/27/05	Main	RR / Womens	Flourescent Fixture	2	0		0	2	4	0	0.00	WS-200	0	
472	Hamilton Elementary	061RR	RR	8	5/27/05	Main	RR / Womens	1 Lamp Fixture	1	0		0	1	1	0	0.00	WS-200	0	
473	Hancock	084RR	RR	1	6/6/05	Auditorium	RR / Mens	1X4	2	32		64	3	6	192	0.19	WS-200	1	
474	Hancock	084RR	RR	2	6/6/05	Auditorium	RR / Womens	1X4	2	32		64	3	6	192	0.19	WS-200	1	
475	Hancock	084RR	RR	3	6/6/05	6	RR / Mens	1X2	2	17		34	1	2	34	0.03	WS-200	1	
476	Hancock	084RR	RR	4	6/6/05	6	RR / Womens	1X2	2	17		34	1	2	34	0.03	WS-200	1	
477	Hancock	084RR	RR	5	6/6/05	16	RR / Mens	1X2	2	17		34	1	2	34	0.03	WS-200	1	
478	Hancock	084RR	RR	6	6/6/05	16	RR / Womens	1X2	2	17		34	1	2	34	0.03	WS-200	1	
479	Hancock	084RR	RR	7	6/6/05	30	RR / Mens	1X2	2	17		34	1	2	34	0.03	WS-200	1	
480	Hancock	084RR	RR	8	6/6/05	30	RR / Womens	1X2	2	17		34	1	2	34	0.03	WS-200	1	
481	Hancock	084RR	RR	9	6/6/05	Office	RR / Mens	1X2	2	0		0	1	2	0	0.00	WS-200	0	
482	Hancock	084RR	RR	10	6/6/05	Office	RR / Womens	1X2	2	0		0	1	2	0	0.00	WS-200	0	
483	Hancock	084RR	RR	11	6/15/05	Auditorium	RR / Mens	2X4	2	32		64	2	4	128	0.13	WS-200	1	
484	Hancock	084RR	RR	12	6/15/05	Auditorium	RR / Womens	2X4	2	32		64	2	4	128	0.13	WS-200	1	
485	Hancock	084RR	RR	13	6/15/05	Cafeteria	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
486	Hardy Elementary	053RR	RR	1	5/26/05	Gate	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
487	Hardy Elementary	053RR	RR	2	5/26/05	Gate	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
488	Hardy Elementary	053RR	RR	3	5/26/05	Library	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
489	Hardy Elementary	053RR	RR	4	5/26/05	Nurse	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
490	Harriet Tubman	151RR	RR	1	10/6/05	Old Library	RR / Mens	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
491	Harriet Tubman	151RR	RR	2	10/6/05	Old Library	RR / Womens	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
492	Harriet Tubman	151RR	RR	3	10/6/05	Cafeteria	RR / Coed	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
493	Harriet Tubman	151RR	RR	4	10/6/05	Cafeteria	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
494	Harriet Tubman	151RR	RR	5	10/6/05	Cafeteria	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
495	Harriet Tubman	151RR	RR	6	10/6/05	Nurse	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
496	Harriet Tubman	151RR	RR	7	10/6/05	Library	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
497	Harriet Tubman	151RR	RR	8	10/6/05	Bungalos	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
498	Harriet Tubman	151RR	RR	9	10/6/05	Bungalos	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
499	Harriet Tubman	151RR	RR	10	10/6/05	Office	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
500	Hawthorne	140RR	RR	1	6/27/05	Main	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
501	Hawthorne	140RR	RR	2	6/27/05	Main	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
502	Hawthorne	140RR	RR	3	6/27/05	Main	Nurse RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
503	Hawthorne	140RR	RR	4	6/27/05	Library	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
504	Hawthorne	140RR	RR	5	6/27/05	Kitchen	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
505	Hearst	076RR	RR	1	6/2/05	Bungalos	RR	2X4	4	34		136	1	4	136	0.14	WS-200	1	
506	Hearst	076RR	RR	2	6/2/05	Bungalos	RR	2X4	4	34		136	1	4	136	0.14	WS-200	1	
507	Hearst	076RR	RR	3	6/2/05	Main	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
508	Hearst	076RR	RR	4	6/2/05	Main	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
509	Henry	077RR	RR	1	6/2/05	Counseling	RR / Mens	1X4	1	32		32	3	3	96	0.10	WS-200	1	
510	Henry	077RR	RR	2	6/2/05	Counseling	RR / Womens	1X4	1	32		32	3	3	96	0.10	WS-200	2	
511	Henry	077RR	RR	3	6/2/05	100	RR / Mens	1X4	1	0		0	3	3	0	0.00	WS-200	0	
512	Henry	077RR	RR	4	6/2/05	100	RR / Womens	1X4	1	0		0	3	3	0	0.00	WS-200	0	
513	Henry	077RR	RR	5	6/2/05	400	RR / Mens	1X4	2	0		0	2	4	0	0.00	WS-200	0	
514	Henry	077RR	RR	6	6/2/05	400	RR / Womens	1X4	2	0		0	3	6	0	0.00	WS-200	0	
515	Henry	077RR	RR	7	6/2/05	300	RR / Mens		0	0		0	0	0	0	0.00	WS-200	0	
516	Henry	077RR	RR	8	6/2/05	300	RR / Womens		0	0		0	0	0	0	0.00	WS-200	0	
517	Henry	077RR	RR	9	6/2/05	Prop Room	RR / Mens	1X4	2	0		0	4	8	0	0.00	WS-200	0	
518	Henry	077RR	RR	10	6/2/05	Prop Room	RR / Womens	1X4	2	0		0	4	8	0	0.00	WS-200	0	
519	Hickman	127RR	RR	1	6/20/05	Office	RR / Mens	2X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
520	Hickman	127RR	RR	2	6/20/05	Office	RR / Womens	2X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
521	Hickman	127RR	RR	3	6/20/05	Office	RR / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
522	Hickman	127RR	RR	4	6/20/05	Office	RR / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
523	Hickman	127RR	RR	5	6/20/05	Office	RR / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
524	Hickman	127RR	RR	6	6/20/05	Office	RR / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
525	Hickman	127RR	RR	7	6/20/05	Office	Nurse RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
526	Hickman	127RR	RR	8	6/20/05	Bungalos	RR / Mens	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
527	Hickman	127RR	RR	9	6/20/05	Bungalos	RR / Womens	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
528	Hickman	127RR	RR	10	6/20/05	40	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
529	Hickman	127RR	RR	11	6/20/05	40	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
530	Hickman	127RR	RR	12	6/20/05	30	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
531	Hickman	127RR	RR	13	6/20/05	30	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
532	Hickman	127RR	RR	14	6/20/05	20	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
533	Hickman	127RR	RR	15	6/20/05	20	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
534	Hickman	127RR	RR	16	6/20/05	10	RR / Coed	2X4											

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location							EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Blgd	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty	
541	Hoover High	033RR	RR	1	5/27/05	100	RR / Mens	1X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
542	Hoover High	033RR	RR	2	5/27/05	100	RR / Womens	1X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
543	Hoover High	033RR	RR	3	5/27/05	300	RR / Mens	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
544	Hoover High	033RR	RR	4	5/27/05	300	RR / Womens	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
545	Hoover High	033RR	RR	5	5/27/05	Library	RR / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
546	Hoover High	033RR	RR	6	5/27/05	Library	RR / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
547	Hoover High	033RR	RR	7	5/27/05	600	RR / Mens	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
548	Hoover High	033RR	RR	8	5/27/05	600	RR / Womens	Recessed Cans	2	13		26	3	6	78	0.08	WS-200	1	
549	Hoover High	033RR	RR	9	5/27/05	900	RR / Mens	1X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
550	Hoover High	033RR	RR	10	5/27/05	900	RR / Womens	1X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
551	Hoover High	033RR	RR	11	5/27/05	1100	RR / Mens	1X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
552	Hoover High	033RR	RR	12	5/27/05	1100	RR / Womens	1X4 Priz	2	32		64	2	4	128	0.13	WS-200	1	
553	Hoover High	033RR	RR	13	5/27/05	Kitchen	RR / Coed	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
554	Hoover High	033RR	RR	14	5/27/05	1200	RR / Mens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
555	Hoover High	033RR	RR	15	5/27/05	1200	RR / Womens	1X4 Wrap	2	0		0	2	4	0	0.00	WS-200	0	
556	Hoover High	033RR	RR	16	5/27/05	Office	RR / Womens	1X4 Priz	2	32		64	3	6	192	0.19	WS-200	1	
557	Hoover High	033RR	RR	17	5/27/05	Office	RR / Mens	1X4 Priz	2	32		64	3	6	192	0.19	WS-200	1	
558	Hoover High	033RR	RR	18	5/27/05	Office	RR / Mens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
559	Hoover High	033RR	RR	19	5/27/05	Office	R / Womens	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
560	Horton Elementary	027RR	RR	1	5/23/05	Main	Copy Room RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
561	Horton Elementary	027RR	RR	2	5/23/05	Main	Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
562	Horton Elementary	027RR	RR	3	5/23/05	Main	Room 38 RR / Mens	1X4	2	0		0	1	2	0	0.00	WS-200	0	
563	Horton Elementary	027RR	RR	4	5/23/05	Main	Room 38 RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
564	Horton Elementary	027RR	RR	5	5/23/05	Main	Room 108 RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
565	Horton Elementary	027RR	RR	6	5/23/05	Main	Room 109 RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
566	Horton Elementary	027RR	RR	7	6/10/05	Library	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
567	Jackson Elementary	034RR	RR	1	5/26/05	600	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
568	Jackson Elementary	034RR	RR	2	5/26/05	600	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
569	Jackson Elementary	034RR	RR	3	5/26/05	600	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
570	Jackson Elementary	034RR	RR	4	5/26/05	Rm 16	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
571	Jackson Elementary	034RR	RR	5	5/26/05	Rm 16	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
572	Jackson Elementary	034RR	RR	6	5/26/05	Cafeteria	RR / Coed	Flourescent Fixture	2	32		64	1	2	64	0.06	WS-200	1	
573	Jackson Elementary	034RR	RR	7	5/26/05	Library	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
574	Jackson Elementary	034RR	RR	8	5/26/05	Rm 46	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
575	Jackson Elementary	034RR	RR	9	5/26/05	Nurse	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	0.5	
576	Jackson Elementary	034RR	RR	10	5/26/05	Nurse	RR / Coed	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	0.5	
577	Jefferson Elementary	037RR	RR	1	5/20/05	Kindergarten Bldg	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	0.5	
578	Jefferson Elementary	037RR	RR	1	5/20/05	Kindergarten Bldg	RR / Coed	Flourescent Fixture	1	13		13	1	1	13	0.01	WS-200	0.5	
579	Jefferson Elementary	037RR	RR	2	5/20/05	Main	Lounge RR / Mens	1X4	1	32		32	1	1	32	0.03	WS-200	1	
580	Jefferson Elementary	037RR	RR	3	5/20/05	Main	Lounge RR / Womens	1X4	1	32		32	1	1	32	0.03	WS-200	1	
581	Jefferson Elementary	037RR	RR	4	5/20/05	900	826 RR	1X4	2	32		64	2	4	128	0.13	WS-200	2	
582	Jefferson Elementary	037RR	RR	5	5/20/05	900	823 RR	1X4	2	32		64	2	4	128	0.13	WS-200	2	
583	Jerabek	110RR	RR	1	6/15/05	Main	RR / Mens	2X4	2	0		0	1	2	0	0.00	WS-200	0	
584	Jerabek	110RR	RR	2	6/15/05	Main	RR / Womens	2X4	2	0		0	1	2	0	0.00	WS-200	0	
585	Jerabek	110RR	RR	3	6/15/05	Main	RR / Coed	2X4	2	0		0	1	2	0	0.00	WS-200	0	
586	Jerabek	110RR	RR	4	6/15/05	B-1	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
587	Jerabek	110RR	RR	5	6/15/05	500	RR / Mens	2X4	2	0		0	1	2	0	0.00	WS-200	0	
588	Jerabek	110RR	RR	6	6/15/05	500	RR / Womens	2X4	2	0		0	1	2	0	0.00	WS-200	0	
589	Jerabek	110RR	RR	7	6/15/05	400	RR / Mens	2X4	2	0		0	1	2	0	0.00	WS-200	0	
590	Jerabek	110RR	RR	8	6/15/05	400	RR / Womens	2X4	2	0		0	1	2	0	0.00	WS-200	0	
591	Jerabek	110RR	RR	9	6/15/05	300	RR / Mens	2X4	2	0		0	1	2	0	0.00	WS-200	0	
592	Jerabek	110RR	RR	10	6/15/05	300	RR / Womens	2X4	2	0		0	1	2	0	0.00	WS-200	0	
593	Jerabek	110RR	RR	11	6/15/05	Kitchen	RR / Coed	2X4	2	0		0	1	2	0	0.00	WS-200	0	
594	Johnson Elementary	031RR	RR	1	5/23/05	Main	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
595	Johnson Elementary	031RR	RR	2	5/23/05	Main	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
596	Jones	082RR	RR	1	6/3/05	Main	RR	1X4	2	0		0	1	2	0	0.00	WS-200	0	
597	Jones	082RR	RR	2	6/3/05	Library	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
598	Jones	082RR	RR	3	6/3/05	Cafeteria	RR	Flourescent Fixture	2	13		26	2	4	52	0.05	WS-200	1	
599	Jones	082RR	RR	4	6/3/05	Teacher Lounge	RR	1X4	2	0		0	2	4	0	0.00	WS-200	0	
600	Jones	082RR	RR	5	6/3/05	Teacher Lounge	RR	1X4	2	0		0	2	4	0	0.00	WS-200	0	
601	Juarez	089RR	RR	1	6/6/05	Main	RR / Mens	1X4	2	0		0	1	2	0	0.00	WS-200	0	
602	Juarez	089RR	RR	2	6/6/05	Main	RR / Womens	1X4	1	32		32	1	1	32	0.03	WS-200	1	
603	Juarez	089RR	RR	3	6/6/05	Main	Nurse RR / Coed	1X4	2	0		0	2	4	0	0.00	WS-200	0	
604	Keamey High	120RR	RR	1	6/22/05	1000	RR / Coed	1X4	2	0		0	2	4	0	0.00	WS-200	0	
605	Keamey High	120RR	RR	2	6/22/05	Bungalos	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
606	Keamey High	120RR	RR	3	6/22/05	Bungalos	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
607	Keamey High	120RR	RR	4	6/22/05	Boys Locker Room	RR / Mens	1X4	2	0		0	2	4	0	0.00	WS-200	0	
608	Keamey High	120RR	RR	5	6/22/05	300	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
609	Keamey High	120RR	RR	6	6/22/05	300	RR / Mens	1X4	2	0		0	2	4	0	0.00	WS-200	0	
610	Keamey High	120RR	RR	7	6/22/05	Cafeteria	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
611	Keamey High	120RR	RR	8	6/22/05	900	RR / Mens	1X4	2	32		64	2	4	128	0.13	WS-200	1	
612	Keamey High	120RR	RR	9	6/22/05	900	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
613	Keamey High	120RR	RR	10	6/22/05	900	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
614	Keamey High	120RR	RR	11	6/22/05	Room	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
615	Keamey High	120RR	RR	12	6/22/05	700	RR / Womens	1X4	2	0		0	2	4	0	0.00	WS-200	0	
616	Keamey High	120RR	RR	13	6/22/05	700	RR / Mens	1X4	2	0		0	2	4	0	0.00	WS-200	0	
617	Keamey High	120RR	RR	14	6/22/05	600	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
618	Keamey High	120RR	RR	15	6/22/05	500	RR / Mens	1X4	2	0		0	1	2	0	0.00	WS-200	0	
619	Keamey High	120RR	RR	16	6/22/05	Library	RR / Coed	1X4	2	0		0	1	2	0	0.00	WS-200	0	
620	Keamey High	120RR	RR	17	6/22/05	Admin	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
621	Keamey High	120RR	RR	18	6/22/05	Admin	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
622	Keiller Middle School	032RR	RR	1	5/23/05	Main	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
623	Keiller Middle School	032RR	RR	2	5/23/05	Main	RR / Womens	1X4	2	32		64	1	2	64				

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location						EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Bldg	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty
631	Kennedy Elementary	012RR	RR	3	5/17/05	200	RR / Mens	2L 1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1
632	Kennedy Elementary	012RR	RR	4	5/17/05	200	RR / Womens	2L 1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1
633	Kennedy Elementary	012RR	RR	5	5/17/05	300	RR / Coed	Incandescent	1	65		65	1	1	65	0.07	WS-200	1
634	Kennedy Elementary	012RR	RR	6	5/17/05	500A	RR / Womens	2L 1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
635	Kennedy Elementary	012RR	RR	7	5/17/05	B31	RR / Coed	2L 1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
636	Kennedy Elementary	012RR	RR	8	5/17/05	100	RR / Nurse	1L 1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1
637	Kimborough	005RR	RR	1	5/17/05	Main Bldg	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1
638	Kimborough	005RR	RR	2	5/17/05	Main Bldg	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1
639	Kimborough	005RR	RR	3	5/17/05	Parent Center	RR	1X4 Recessed	2	32		64	1	2	64	0.06	WS-200	1
640	Kimborough	005RR	RR	4	5/17/05	Health	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1
641	Kimborough	005RR	RR	5	5/17/05	Food Service	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1
642	Kimborough	005RR	RR	6	5/17/05	200	RR	Recessed Fluorescent Fixture	2	32		64	1	2	64	0.06	WS-200	1
643	Kimborough	005RR	RR	7	5/17/05	200	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1
644	Kimborough	005RR	RR	8	5/17/05	200	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1
645	Kimborough	005RR	RR	9	5/17/05	100	RR	1X4 Recessed	2	32		64	1	2	64	0.06	WS-200	1
646	Kimborough	005RR	RR	10	5/17/05	100	RR	1X4	2	32		64	1	2	64	0.06	WS-200	0.5
647	Kimborough	005RR	RR	10	5/17/05	100	RR	Recessed Fluorescent Fixtures	1	26		26	2	2	52	0.05	WS-200	0.5
648	Kimborough	005RR	RR	11	5/17/05	100	RR	1X4	2	32		64	1	2	64	0.06	WS-200	0.5
649	Kimborough	005RR	RR	11	5/17/05	100	RR	Recessed Fluorescent Fixtures	1	26		26	2	2	52	0.05	WS-200	0.5
650	Kimborough	005RR	RR	12	5/17/05	Media Center	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1
651	Kimborough	005RR	RR	13	5/17/05	Computer Room	RR	1X4 Recessed	2	32		64	1	2	64	0.06	WS-200	1
652	Knox Elementary	024RR	RR	1	5/18/05	Office	RR / Mens	2 Lamp 1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
653	Knox Elementary	024RR	RR	2	5/18/05	Office	RR / Womens	2 Lamp 1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
654	Knox Elementary	024RR	RR	3	5/18/05	Cafeteria	RR / Coed	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1
655	Knox Elementary	024RR	RR	4	5/18/05	Portable	RR / Womens	2 Lamp flt. Strip	2	32		64	2	4	128	0.13	WS-200	1
656	Knox Elementary	024RR	RR	5	5/18/05	Portable	RR / Mens	2 Lamp flt. Strip	2	0		0	2	4	0	0.00	WS-200	0
657	Knox Elementary	024RR	RR	6	5/18/05	Portable	RR / Coed	2 Lamp 2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1
658	Knox Elementary	024RR	RR	7	6/10/05	Main	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
659	Kroc Middle	142RR	RR	1	6/24/05	500	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1
660	Kroc Middle	142RR	RR	2	6/24/05	Cafeteria	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1
661	Kroc Middle	142RR	RR	3	6/24/05	Gym	RR / Mens	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1
662	Kroc Middle	142RR	RR	4	6/24/05	Gym	RR / Womens	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1
663	Kroc Middle	142RR	RR	5	6/24/05	900	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
664	Kroc Middle	142RR	RR	6	6/24/05	900	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
665	Kroc Middle	142RR	RR	7	6/24/05	Library	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
666	Kroc Middle	142RR	RR	8	6/24/05	200	RR / Womens	1X4 Wrap	2	0		0	3	6	0	0.00	WS-200	0
667	Kroc Middle	142RR	RR	9	6/24/05	100	RR / Mens	1X4 Wrap	2	32		64	3	6	192	0.19	WS-200	1
668	Kroc Middle	142RR	RR	10	6/24/05	Main	Nurse RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1
669	Kroc Middle	142RR	RR	11	6/24/05	Main	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
670	Kumeyay	091RR	RR	1	6/6/05	Office	RR / Mens	1X4 Priz	2	0		0	2	4	0	0.00	WS-200	0
671	Kumeyay	091RR	RR	1	6/6/05	Office	RR / Womens	1X4 Strip	1	0		0	2	2	0	0.00	WS-200	0
672	Kumeyay	091RR	RR	2	6/6/05	Office	RR / Womens	1X4 Priz	2	0		0	2	4	0	0.00	WS-200	0
673	Kumeyay	091RR	RR	2	6/6/05	Office	RR / Womens	1X4 Strip	1	0		0	2	2	0	0.00	WS-200	0
674	Kumeyay	091RR	RR	3	6/6/05	Office	Nurse RR / Coed	Recessed Can CF	2	0		0	1	2	0	0.00	WS-200	0
675	Kumeyay	091RR	RR	4	6/6/05	Library	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1
676	La Jolla Elementary	114RR	RR	1	6/17/05	Main	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1
677	La Jolla Elementary	114RR	RR	2	6/17/05	Main	RR / Womens	1X4	2	32		64	2	4	128	0.13	WS-200	1
678	La Jolla Elementary	114RR	RR	3	6/17/05	Main	Nurse RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1
679	La Jolla High	126RR	RR	1	6/20/05	900	RR / Mens	1X4	2	32		64	5	10	320	0.32	WS-200	1
680	La Jolla High	126RR	RR	2	6/20/05	900	RR / Womens	1X4	2	32		64	6	12	384	0.38	WS-200	1
681	La Jolla High	126RR	RR	3	6/20/05	501	RR / Coed	1X4	1	32		32	1	1	32	0.03	WS-200	0.5
682	La Jolla High	126RR	RR	3	6/20/05	501	RR / Coed	Fluorescent Fixture	1	13		13	1	1	13	0.01	WS-200	0.5
683	La Jolla High	126RR	RR	4	6/20/05	511	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1
684	La Jolla High	126RR	RR	5	6/20/05	Kitchen	RR / Coed	Fluorescent Fixture	2	13		26	2	4	52	0.05	WS-200	2
685	La Jolla High	126RR	RR	6	6/20/05	Admin	RR / Mens	1X4	2	0		0	3	6	0	0.00	WS-200	0
686	La Jolla High	126RR	RR	7	6/20/05	Admin	RR / Womens	1X4	2	32		64	4	8	256	0.26	WS-200	1
687	La Jolla High	126RR	RR	8	6/20/05	Library	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1
688	La Jolla High	126RR	RR	9	6/20/05	Library	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1
689	La Jolla High	126RR	RR	10	6/20/05	Maintenance	RR / Coed	1X4	1	32		32	1	1	32	0.03	WS-200	1
690	Lafayette	139RR	RR	1	6/27/05	Auditorium	RR / Womens	1X4 Wrap	2	32		64	3	6	192	0.19	WS-200	1
691	Lafayette	139RR	RR	2	6/27/05	Auditorium	RR / Mens	1X4 Wrap	2	32		64	3	6	192	0.19	WS-200	1
692	Lafayette	139RR	RR	3	6/27/05	B8	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0
693	Lafayette	139RR	RR	4	6/27/05	B9	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0
694	Lafayette	139RR	RR	5	6/27/05	Laarning Center	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0
695	Lafayette	139RR	RR	6	6/27/05	9	RR / Womens	1X1 CF	2	26		52	4	8	208	0.21	WS-200	1
696	Lafayette	139RR	RR	7	6/27/05	Main	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
697	Lee Elementary	047RR	RR	1	5/24/05	Bungalos	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
698	Lee Elementary	047RR	RR	2	5/24/05	Cafeteria	RR / Coed	Ceiling Mount CF	1	26		26	2	2	52	0.05	WS-200	1
699	Lee Elementary	047RR	RR	3	5/24/05	Library	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
700	Lee Elementary	047RR	RR	4	5/24/05	B	RR / Mens	1X4 Wrap	2	0		0	2	4	0	0.00	WS-200	1
701	Lee Elementary	047RR	RR	5	5/24/05	B	RR / Womens	1X4 Wrap	2	0		0	2	4	0	0.00	WS-200	1
702	Lee Elementary	047RR	RR	6	5/24/05	Main	RR / Womens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1
703	Lee Elementary	047RR	RR	7	5/24/05	Main	RR / Mens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1
704	Lee Elementary	047RR	RR	8	5/24/05	Main	Nurse RR / Coed	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1
705	Lewis	078RR	RR	1	6/2/05	Nurse	RR / Coed	Fluorescent Fixture	2	13		26	2	4	52	0.05	WS-200	1
706	Lewis	078RR	RR	2	6/2/05	Financial Office	RR / Womens	1X4	1	32		32	1	1	32	0.03	WS-200	1
707	Lewis	078RR	RR	2	6/2/05	Financial Office	RR / Womens	Fluorescent Fixture	1	13		13	1	1	13	0.01	WS-200	1
708	Lewis	078RR	RR	3	6/2/05	100	RR / Coed	1X4	2	32		64	2	4	128	0.13	WS-200	1
709	Lewis	078RR	RR	4	6/2/05	300	RR / Coed	1X4	1	32		32	2	2	64	0.06	WS-200	2
710	Lewis	078RR	RR	5	6/2/05	300	RR / Coed	1X4	1	32		32	2	2	64	0.06	WS-200	2
711	Lewis	078RR	RR	6	6/2/05	Library	RR / Coed	1X4	1	32		32	1	1	32	0.03	WS-200	1
712	Lewis	078RR	RR	7	6/2/05	Cafeteria	RR / Coed	1X4	1	32		32	1	1	32	0.03	WS-200	1
713	Linda Vista Elementary	122RR	RR	1	6/22/05	Main	RR / Mens	1X4 Wrap	2	32		64	1					

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location							EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Bldg	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty	
721	Lindbergh Elementary	121RR	RR	3	6/22/05	Main	RR / Womens	Round CF	2	26		52	1	2	52	0.05	WS-200	0.33	
722	Lindbergh Elementary	121RR	RR	4	6/22/05	Main	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
723	Lindbergh Elementary	121RR	RR	4	6/22/05	Main	RR / Mens	Round CF	2	26		52	1	2	52	0.05	WS-200	0.33	
724	Lindbergh Elementary	121RR	RR	4	6/22/05	Main	RR / Mens	Wall Mount Wrap	2	32		64	1	2	64	0.06	WS-200	0.33	
725	Lindbergh Elementary	121RR	RR	5	6/22/05	Main	RR / Mens	Round CF	2	26		52	1	2	52	0.05	WS-200	0.5	
726	Lindbergh Elementary	121RR	RR	5	6/22/05	Main	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
727	Lindbergh Elementary	121RR	RR	6	6/22/05	Main	RR / Womens	Round CF	2	26		52	1	2	52	0.05	WS-200	0.5	
728	Lindbergh Elementary	121RR	RR	6	6/22/05	Main	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
729	Lindbergh Elementary	121RR	RR	7	6/22/05	Bungalos	RR / Coed	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1	
730	Logan Elementary	022RR	RR	1	5/19/05	Main	Lounge / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
731	Logan Elementary	022RR	RR	2	5/19/05	Main	Lounge / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
732	Logan Elementary	022RR	RR	3	5/19/05	Main	Staff / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
733	Logan Elementary	022RR	RR	4	5/19/05	Main	Staff / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
734	Logan Elementary	022RR	RR	5	5/19/05	Main	Nurse RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
735	Logan Elementary	022RR	RR	6	5/19/05	Main	RR / Mens (Lower)	1X4	2	32		64	1	2	64	0.06	WS-200	1	
736	Logan Elementary	022RR	RR	7	5/19/05	Main	RR / Womens (Lower)	1X4	2	32		64	1	2	64	0.06	WS-200	1	
737	Logan Elementary	022RR	RR	8	5/19/05	Main	RR / Mens (Upper)	1X4	2	32		64	1	2	64	0.06	WS-200	1	
738	Logan Elementary	022RR	RR	9	5/19/05	Main	RR / Womens (Upper)	1X4	2	32		64	1	2	64	0.06	WS-200	1	
739	Logan Elementary	022RR	RR	10	5/19/05	Bungalos	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
740	Loma Portal	063RR	RR	1	5/18/05	Main	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
741	Loma Portal	063RR	RR	2	5/18/05	Main	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
742	Loma Portal	063RR	RR	3	5/18/05	Main	RR / Mens	2X4	0	32		0	0	0	0	0.00	WS-200	0	
743	Loma Portal	063RR	RR	4	5/18/05	Main	RR / Womens	2X4	0	32		0	0	0	0	0.00	WS-200	0	
744	Loma Portal	063RR	RR	5	5/18/05	Main	RR / Coed	Ceiling Mount CF	1	60		60	1	1	60	0.06	WS-200	1	
745	Loma Portal	063RR	RR	6	5/18/05	Main	Hallway	Ceiling Mount CF	1	60		60	1	1	60	0.06	WS-200	1	
746	Madison High	141RR	RR	1	6/29/05	Auditorium	RR / Womens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
747	Madison High	141RR	RR	2	6/29/05	Auditorium	RR / Mens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
748	Madison High	141RR	RR	3	6/29/05	800	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
749	Madison High	141RR	RR	4	6/29/05	800	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
750	Madison High	141RR	RR	5	6/29/05	B7	RR / Coed	2X4 Priz	2	32		64	4	8	256	0.26	WS-200	1	
751	Madison High	141RR	RR	6	6/29/05	B21	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
752	Madison High	141RR	RR	7	6/29/05	800	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
753	Madison High	141RR	RR	8	6/29/05	700	RR / Mens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
754	Madison High	141RR	RR	9	6/29/05	Supply Rm	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
755	Madison High	141RR	RR	10	6/29/05	Boys Locker Room	RR / Mens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
756	Madison High	141RR	RR	11	6/29/05	Girls Locker Room	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
757	Madison High	141RR	RR	12	6/29/05	Cafeteria	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
758	Madison High	141RR	RR	13	6/29/05	300	RR / Mens	1X1 CF	2	0		0	2	4	0	0.00	WS-200	0	
759	Madison High	141RR	RR	14	6/29/05	300	RR / Womens	1X1 CF	2	26		52	2	4	104	0.10	WS-200	1	
760	Madison High	141RR	RR	15	6/29/05	Library	RR / Coed	1X4 Strip	2	0		0	1	2	0	0.00	WS-200	0	
761	Madison High	141RR	RR	16	6/29/05	100	RR / Mens	1X1 CF	2	0		0	2	4	0	0.00	WS-200	0	
762	Mann Middle	041RR	RR	1	5/23/05	Auditorium	RR / Mens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
763	Mann Middle	041RR	RR	2	5/23/05	Auditorium	RR / Womens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
764	Mann Middle	041RR	RR	3	5/23/05	100	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
765	Mann Middle	041RR	RR	4	5/23/05	100	RR / Womens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
766	Mann Middle	041RR	RR	5	5/23/05	500	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
767	Mann Middle	041RR	RR	5	5/23/05	500	RR / Mens	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
768	Mann Middle	041RR	RR	6	5/23/05	500	RR / Womens	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
769	Mann Middle	041RR	RR	6	5/23/05	500	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
770	Mann Middle	041RR	RR	7	5/23/05	200	RR / Coed	Ceiling Mount CF	1	26		26	2	2	52	0.05	WS-200	1	
771	Mann Middle	041RR	RR	8	5/23/05	300	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
772	Mann Middle	041RR	RR	9	5/23/05	300	Kitchen RR / Coed	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
773	Mann Middle	041RR	RR	10	5/23/05	400	RR / Coed	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1	
774	Mann Middle	041RR	RR	11	5/23/05	600	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
775	Mann Middle	041RR	RR	12	5/23/05	600	RR / Womens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
776	Marshall	109RR	RR	1	6/15/05	Office	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
777	Marshall	109RR	RR	2	6/15/05	Kitchen	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
778	Marshall	109RR	RR	3	6/15/05	253	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
779	Marshall	109RR	RR	4	6/15/05	157	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
780	Marshall	109RR	RR	5	6/15/05	Library	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
781	Marshall	109RR	RR	6	6/15/05	Library	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
782	Marshall Elementary	055RR	RR	1	5/26/05	Portable	RR / Coed	1 Lamp Strip	1	32		32	2	2	64	0.06	WS-200	1	
783	Marshall Elementary	055RR	RR	2	5/26/05	500	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
784	Marshall Elementary	055RR	RR	3	5/26/05	Bungalos	RR / Coed	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1	
785	Marshall Elementary	055RR	RR	4	5/26/05	Office	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
786	Marshall Elementary	055RR	RR	5	5/26/05	Office	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
787	Marston Middle School	138RR	RR	1	6/27/05	Library	RR / Coed	2X2 Priz	2	0		0	1	2	0	0.00	WS-200	0	
788	Marston Middle School	138RR	RR	2	6/27/05	Office	RR / Mens	2X2 Priz	2	0		0	1	2	0	0.00	WS-200	0	
789	Marston Middle School	138RR	RR	3	6/27/05	Office	RR / Womens	2X2 Priz	2	0		0	1	2	0	0.00	WS-200	0	
790	Marston Middle School	138RR	RR	4	6/27/05	Main	Nurse RR / Coed	2X2 Priz	2	32		64	1	2	64	0.06	WS-200	1	
791	Marston Middle School	138RR	RR	5	6/27/05	200	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
792	Marston Middle School	138RR	RR	6	6/27/05	200	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
793	Marston Middle School	138RR	RR	7	6/27/05	Cafeteria	RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
794	Marston Middle School	138RR	RR	8	6/27/05	Bungalos	RR / Womens	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
795	Marston Middle School	138RR	RR	9	6/27/05	120	RR / Mens	Round CF	2	26		52	1	2	52	0.05	WS-200	1	
796	Marston Middle School	138RR	RR	10	6/27/05	120	RR / Womens	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
797	Marston Middle School	138RR	RR	11	6/27/05	Boys Locker Room	RR / Mens	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
798	Marston Middle School	138RR	RR	12	6/27/05	Girls Locker Room	RR / Womens	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
799	Martin Luther King Jr.	013RR	RR	1	5/18/05	Bungalos	RR / Mens	2X4	4	32		128	1	4	128	0.13	WS-200	1	
800	Martin Luther King Jr.	013RR	RR	2	5/18/05	Bungalos	RR / Womens	2X4	4	32		128	1	4	128	0.13	WS-200	1	
801	Marvin	079RR	RR	1	6/2/05	Main Office	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
802	Marvin	079RR	RR	2	6/2/05	Main Office	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1	
803	Marvin	079RR	RR	2	6/2/05	Main Office	RR	Flourescent Fixture	1	13		13	1	1					

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location						EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Blgd	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty
811	Mason	102RR	RR	3	6/13/05	Kitchen	RR / Coed	2X4	2	32		64	2	4	128	0.13	WS-200	2
812	Mason	102RR	RR	4	6/13/05	600	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1
813	Mason	102RR	RR	5	6/13/05	600	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1
814	Mason	102RR	RR	6	6/13/05	500	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1
815	Mason	102RR	RR	7	6/13/05	500	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1
816	Mason	102RR	RR	8	6/13/05	400	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1
817	Mason	102RR	RR	9	6/13/05	400	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1
818	Mason	102RR	RR	10	6/13/05	805	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1
819	Mason	102RR	RR	11	6/13/05	Nurse	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1
820	Mason	102RR	RR	12	6/13/05	300	RR	Unknown	0	0		0	0	0	0.00	WS-200	0	
821	McKinley Elementary	036RR	RR	1	5/20/05	Cafeteria	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
822	McKinley Elementary	036RR	RR	2	5/20/05	Cafeteria	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
823	McKinley Elementary	036RR	RR	3	5/20/05	Bungalos	Rm 21 RR	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1
824	McKinley Elementary	036RR	RR	4	5/20/05	Office	RR / Mens	1X4	2	0		0	2	4	0.00	WS-200	0	
825	McKinley Elementary	036RR	RR	5	5/20/05	Office	RR / Womens	1X4	2	0		0	2	4	0.00	WS-200	0	
826	McKinley Elementary	036RR	RR	6	5/20/05	Office	Hallway RR	1X4	2	0		0	2	4	0.00	WS-200	0	
827	McKinley Elementary	036RR	RR	7	5/20/05	Office	Hallway RR	1X4	2	0		0	2	4	0.00	WS-200	0	
828	Memorial Middle School	019RR	RR	1	5/19/05	100	BSS RR	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1
829	Memorial Middle School	019RR	RR	2	5/19/05	100	RR / Mens	Ceiling Mount CF	2	0		0	1	2	0.00	WS-200	0	
830	Memorial Middle School	019RR	RR	3	5/19/05	100	RR / Womens	Ceiling Mount CF	2	0		0	1	2	0.00	WS-200	0	
831	Memorial Middle School	019RR	RR	4	5/19/05	200	RR / Womens	Ceiling Mount CF	2	0		0	2	4	0.00	WS-200	0	
832	Memorial Middle School	019RR	RR	5	5/19/05	200	RR / Mens	Ceiling Mount CF	2	0		0	3	6	0.00	WS-200	0	
833	Memorial Middle School	019RR	RR	6	5/19/05	200	RR / Mens	Ceiling Mount CF	1	26		26	4	4	104	0.10	WS-200	1
834	Memorial Middle School	019RR	RR	7	5/19/05	200	RR / Mens	1X4 Wrap	1	32		32	2	2	64	0.06	WS-200	1
835	Memorial Middle School	019RR	RR	8	5/19/05	200	Nurse RR	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
836	Memorial Middle School	019RR	RR	9	5/19/05	200	Nurse RR	1X4 Wrap	2	0		0	1	2	0.00	WS-200	0	
837	Memorial Middle School	019RR	RR	10	5/19/05	300	Media Mens	1X4 Wrap	1	0		0	1	1	0.00	WS-200	0	
838	Memorial Middle School	019RR	RR	11	5/19/05	300	Media Womens	1X4 Wrap	1	0		0	1	1	0.00	WS-200	0	
839	Memorial Middle School	019RR	RR	12	5/19/05	500	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
840	Memorial Middle School	019RR	RR	13	5/19/05	500	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
841	Memorial Middle School	019RR	RR	14	5/19/05	400	RR / Coed	1X4 Strip	1	32		32	1	1	32	0.03	WS-200	1
842	Memorial Middle School	019RR	RR	15	5/19/05	700	PE / Mens	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	0.5
843	Memorial Middle School	019RR	RR	15	5/19/05	700	PE / Mens	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	0.5
844	Memorial Middle School	019RR	RR	16	5/19/05	700	PE / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5
845	Memorial Middle School	019RR	RR	16	5/19/05	700	PE / Womens	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	0.5
846	Memorial Middle School	019RR	RR	17	5/19/05	Portable	RR / Coed	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1
847	Memorial Middle School	019RR	RR	18	5/19/05	200	Upstairs / Mens	1X4 Strip	1	0		0	2	2	0.00	WS-200	0	
848	Memorial Middle School	019RR	RR	19	5/19/05	200	Upstairs / Womens	Ceiling Mount CF	1	0		0	2	2	0.00	WS-200	0	
849	Miller Elementary	092RR	RR	1	6/6/05	Cafeteria	RR / Coed	2X4 Strip	2	32		64	1	2	64	0.06	WS-200	1
850	Miller Elementary	092RR	RR	2	6/6/05	Cafeteria	RR / Coed	2X4 Strip	2	32		64	1	2	64	0.06	WS-200	1
851	Miller Elementary	092RR	RR	3	6/6/05	Cafeteria	RR / Coed	2X4 Strip	2	32		64	1	2	64	0.06	WS-200	1
852	Miller Elementary	092RR	RR	4	6/6/05	Office	Nurse RR / Coed	Recessed Mount CF	1	16		16	1	1	16	0.02	WS-200	1
853	Miller Elementary	092RR	RR	5	6/6/05	Office	RR / Coed	2X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
854	Miller Elementary	092RR	RR	6	6/6/05	1C	RR / Coed	2X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
855	Miller Elementary	092RR	RR	7	6/6/05	2C	RR / Coed	2X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
856	Miller Elementary	092RR	RR	8	6/6/05	3C	RR / Coed	2X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
857	Miller Elementary	092RR	RR	9	6/6/05	4C	RR / Coed	2X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
858	Miller Elementary	092RR	RR	10	6/6/05	5A	RR / Coed	2X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
859	Miller Elementary	092RR	RR	11	6/6/05	5A	RR / Coed	2X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
860	Miller Elementary	092RR	RR	12	6/6/05	7C	RR / Coed	2X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
861	Miller Elementary	092RR	RR	13	6/6/05	8C	RR / Coed	2X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
862	Miller Elementary	092RR	RR	14	6/6/05	82	RR / Coed	1X4 Strip	1	32		32	1	1	32	0.03	WS-200	1
863	Mira Mesa High	103RR	RR	1	6/13/05	Office	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1
864	Mira Mesa High	103RR	RR	2	6/13/05	Office	RR	Flourescent Fixture	2	32		64	2	4	128	0.13	WS-200	1
865	Mira Mesa High	103RR	RR	2	6/13/05	Office	RR	1X4	2	13		26	2	4	52	0.05	WS-200	1
866	Mira Mesa High	103RR	RR	3	6/13/05	200	RR	1X4	1	32		32	3	3	96	0.10	WS-200	1
867	Mira Mesa High	103RR	RR	4	6/13/05	200	RR	1X4	1	32		32	3	3	96	0.10	WS-200	1
868	Mira Mesa High	103RR	RR	5	6/13/05	420	RR	1X4	2	13		26	1	2	26	0.03	WS-200	1
869	Mira Mesa High	103RR	RR	6	6/13/05	Kitchen	RR	1X4	2	32		64	4	8	256	0.26	WS-200	2
870	Mira Mesa High	103RR	RR	7	6/13/05	Kitchen	RR	1X4	2	32		64	4	8	256	0.26	WS-200	1
871	Mira Mesa High	103RR	RR	8	6/13/05	Auditorium	RR	1X4	2	0		0	8	16	0.00	WS-200	0	
872	Mira Mesa High	103RR	RR	8	6/13/05	Auditorium	RR	Flourescent Fixture	2	0		0	2	4	0.00	WS-200	0	
873	Mira Mesa High	103RR	RR	9	6/13/05	Auditorium	RR	1X4	2	0		0	7	14	0.00	WS-200	0	
874	Mira Mesa High	103RR	RR	9	6/13/05	Auditorium	RR	Flourescent Fixture	2	0		0	2	4	0.00	WS-200	0	
875	Mira Mesa High	103RR	RR	10	6/13/05	300	RR	1X4	2	0		0	2	4	0.00	WS-200	0	
876	Mira Mesa High	103RR	RR	10	6/13/05	300	RR	Flourescent Fixture	2	0		0	2	4	0.00	WS-200	0	
877	Mira Mesa High	103RR	RR	11	6/13/05	300	RR	1X4	2	0		0	2	4	0.00	WS-200	0	
878	Mira Mesa High	103RR	RR	12	6/13/05	B-11	RR	Flourescent Fixture	2	13		26	2	4	52	0.05	WS-200	1
879	Mira Mesa High	103RR	RR	13	6/13/05	B-11	RR	Flourescent Fixture	2	0		0	1	2	0.00	WS-200	0	
880	Mira Mesa High	103RR	RR	14	6/13/05	B-29	RR	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	1
881	Mira Mesa High	103RR	RR	15	6/13/05	B-5	RR	1X4	2	0		0	1	2	0.00	WS-200	0	
882	Mira Mesa High	103RR	RR	16	6/13/05	600	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1
883	Mira Mesa High	103RR	RR	17	6/13/05	600	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1
884	Miramar Ranch	107RR	RR	1	6/15/05	B-23	RR / Mens	1X4	1	32		32	1	1	32	0.03	WS-200	1
885	Miramar Ranch	107RR	RR	2	6/15/05	B-23	RR / Womens	1X4	1	32		32	1	1	32	0.03	WS-200	1
886	Miramar Ranch	107RR	RR	3	6/15/05	B-13	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1
887	Miramar Ranch	107RR	RR	4	6/15/05	210	RR / Mens	2X4	2	0		0	1	2	0.00	WS-200	0	
888	Miramar Ranch	107RR	RR	5	6/15/05	210	RR / Womens	2X4	2	0		0	1	2	0.00	WS-200	0	
889	Miramar Ranch	107RR	RR	6	6/15/05	Main	RR / Mens	2X4	2	0		0	2	4	0.00	WS-200	0	
890	Miramar Ranch	107RR	RR	7	6/15/05	Main	RR / Womens	2X4	2	0		0	2	4	0.00	WS-200	0	
891	Miramar Ranch	107RR	RR	8	6/15/05	105	RR / Coed	1X4	1	32		32	1	1	32	0.03	WS-200	1
892	Miramar Ranch	107RR	RR	9	6/15/05	Kitchen	RR / Mens	2X4	2	0		0	1	2	0.00	WS-200	0	
893	Miramar Ranch	107RR	RR	10	6/15/05	Kitchen	RR / Womens	2X4	2	0		0	1	2	0.00	WS-200	0	
894	Mission Bay High	128RR	RR	1	6/21/05							0	0	0	0.00			
895	Montgomery	134RR	RR	1	6/23/05	Girls Locker Room												

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location							EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Blgd	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty	
901	Montgomery	134RR	RR	6	6/23/05	300	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
902	Montgomery	134RR	RR	7	6/23/05	Lower 200	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
903	Montgomery	134RR	RR	7	6/23/05	Lower 200	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
904	Montgomery	134RR	RR	8	6/23/05	Cafeteria	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
905	Montgomery	134RR	RR	9	6/23/05	Auditorium	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
906	Montgomery	134RR	RR	10	6/23/05	Auditorium	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
907	Montgomery	134RR	RR	11	6/23/05	Lower 100	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
908	Montgomery	134RR	RR	12	6/23/05	Lower 100	Nurse RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
909	Montgomery	134RR	RR	13	6/23/05	Lower 100	Nurse RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
910	Montgomery	134RR	RR	14	6/23/05	Upper 100	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
911	Montgomery	134RR	RR	15	6/23/05	Upper 100	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
912	Montgomery	134RR	RR	16	6/23/05	Upper 200	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
913	Morse High School	029RR	RR	1	5/24/05	400	RR / Mens	1 Lamp Fixture	1	32		32	4	4	128	0.13	WS-200	2	
914	Morse High School	029RR	RR	2	5/24/05	400	RR / Womens	1 Lamp Fixture	1	32		32	4	4	128	0.13	WS-200	2	
915	Morse High School	029RR	RR	3	5/24/05	400	RR / Mens (Rm 416)	1 Lamp Fixture	1	0		0	6	6	0	0.00	WS-200	0	
916	Morse High School	029RR	RR	4	5/24/05	400	RR / Mens (Rm 416)	1 Lamp Fixture	1	0		0	6	6	0	0.00	WS-200	0	
917	Morse High School	029RR	RR	5	5/24/05	Bungalos	RR / Mens (B27)	2X4	4	32		128	1	4	128	0.13	WS-200	1	
918	Morse High School	029RR	RR	6	5/24/05	Bungalos	RR / Womens (B27)	2X4	4	32		128	1	4	128	0.13	WS-200	1	
919	Morse High School	029RR	RR	7	5/24/05	Oswenia	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
920	Morse High School	029RR	RR	8	5/24/05	Bungalos	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
921	Muir	123RR	RR	1	6/20/05	General Office	RR	1X4	2	32		64	2	4	128	0.13	WS-200	2	
922	Muir	123RR	RR	2	6/20/05	Office	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1	
923	Muir	123RR	RR	3	6/20/05	513	RR	1X4	2	32		64	2	4	128	0.13	WS-200	2	
924	Muir	123RR	RR	4	6/20/05	508	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1	
925	Muir	123RR	RR	5	6/20/05	B-6	RR / Mens	2X4	4	32		128	1	4	128	0.13	WS-200	1	
926	Muir	123RR	RR	6	6/20/05	B-6	RR / Womens	2X4	4	32		128	1	4	128	0.13	WS-200	1	
927	Muir	123RR	RR	7	6/20/05	Library	RR / Coed	1 Lamp Fixture	2	17		34	1	2	34	0.03	WS-200	1	
928	Muir	123RR	RR	8	6/20/05	300	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1	
929	Muir	123RR	RR	9	6/20/05	300	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1	
930	Muir	123RR	RR	10	6/20/05	Kitchen	RR / Coed	Flourescent Fixture	1	13		13	1	1	13	0.01	WS-200	1	
931	Muir	123RR	RR	10	6/20/05	Kitchen	RR / Coed	1X4	1	32		32	1	1	32	0.03	WS-200	1	
932	Muir	123RR	RR	11	6/20/05	Boys Locker Room	RR / Mens	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	1	
933	Muir	123RR	RR	12	6/20/05	Girls Locker Room	RR / Womens	Flourescent Fixture	2	13		26	1	2	26	0.03	WS-200	1	
934	North Park	062RR	RR	1	5/20/05	Main	RR / Outside Mens	2X4	3	32		96	1	3	96	0.10	WS-200	1	
935	North Park	062RR	RR	2	5/20/05	Main	RR / Outside Womens	2X4	3	32		96	1	3	96	0.10	WS-200	1	
936	North Park	062RR	RR	3	5/20/05	Main	RR / Inside Mens	2X4	3	32		96	1	3	96	0.10	WS-200	1	
937	North Park	062RR	RR	4	5/20/05	Main	RR / Inside Womens	2X4	3	32		96	1	3	96	0.10	WS-200	1	
938	North Park	062RR	RR	5	6/10/05	Kitchen	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
939	Nve Elementary	044RR	RR	1	5/24/05	Boys Patrol	RR / Mens	1X4	2	32		64	3	6	192	0.19	WS-200	0.5	
940	Nve Elementary	044RR	RR	1	5/24/05	Boys Patrol	RR / Mens	Flourescent Fixture	1	13		13	1	1	13	0.01	WS-200	0.5	
941	Nve Elementary	044RR	RR	2	5/24/05	Boys Patrol	RR / Womens	1X4	2	32		64	5	10	320	0.32	WS-200	0.5	
942	Nve Elementary	044RR	RR	2	5/24/05	Boys Patrol	RR / Womens	Flourescent Fixture	1	13		13	1	1	13	0.01	WS-200	0.5	
943	Nve Elementary	044RR	RR	3	5/24/05	Nurse	RR / Coed	Flourescent Fixture	1	0		0	1	1	0	0.00	WS-200	0	
944	Nve Elementary	044RR	RR	4	5/24/05	Main Office	RR / Coed	Flourescent Fixture	1	0		0	2	2	0	0.00	WS-200	0	
945	Oak Park Elementary	054RR	RR	1	5/26/05	Main	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
946	Oak Park Elementary	054RR	RR	2	5/26/05	Main	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
947	Oak Park Elementary	054RR	RR	3	5/26/05	Main	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
948	Oak Park Elementary	054RR	RR	4	5/26/05	Cafeteria	RR / Coed	1X4 Wrap	2	0		0	1	2	0	0.00	WS-200	0	
949	Oak Park Elementary	054RR	RR	5	5/26/05	Bungalos	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
950	Oak Park Elementary	054RR	RR	6	6/10/05	Library	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
951	Ocean Beach	086RR	RR	1	5/18/05	K1	RR	2X4	2	32		64	1	2	64	0.06	WS-200	1	
952	Ocean Beach	086RR	RR	2	5/18/05	Pre School	RR	2X4	2	32		64	1	2	64	0.06	WS-200	1	
953	Ocean Beach	086RR	RR	3	5/18/05	15	RR / Womens	1X4	0	32		0	1	0	0	0.00	WS-200	0	
954	Ocean Beach	086RR	RR	4	5/18/05	15	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
955	Ocean Beach	086RR	RR	5	5/18/05	Health	RR	2X4	2	32		64	1	2	64	0.06	WS-200	1	
956	Ocean Beach	086RR	RR	6	5/18/05	2	RR	2X4	2	32		64	1	2	64	0.06	WS-200	1	
957	Ocean Beach	086RR	RR	7	5/18/05	Cafeteria	RR	12' round ceiling mount	2	14		28	2	4	56	0.06	WS-200	1	
958	Ocean Beach	086RR	RR	8	5/18/05	Library	RR	2X4	2	32		64	1	2	64	0.06	WS-200	1	
959	Pacific Beach Elementary	132RR	RR	1	6/22/05	Main	RR	1X4	2	0		0	3	6	0	0.00	WS-200	0	
960	Pacific Beach Elementary	132RR	RR	2	6/22/05	Main	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1	
961	School	130RR	RR	1	6/22/05	103	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1.5	
962	School	130RR	RR	1	6/22/05	103	RR / Mens	Flourescent Fixture	1	13		13	2	2	26	0.03	WS-200	1.5	
963	School	130RR	RR	2	6/22/05	103	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
964	School	130RR	RR	2	6/22/05	103	RR / Womens	Flourescent Fixture	1	13		13	2	2	26	0.03	WS-200	1	
965	School	130RR	RR	3	6/22/05	Main	RR / Coed	1X4	2	32		64	2	4	128	0.13	WS-200	1	
966	School	130RR	RR	4	6/22/05	Library	RR / Coed	1X4	2	32		64	4	8	256	0.26	WS-200	1	
967	School	130RR	RR	5	6/22/05	Library	RR / Coed	1X4	2	32		64	4	8	256	0.26	WS-200	1	
968	Paradise Hills	051RR	RR	1	5/25/05	Office	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
969	Paradise Hills	051RR	RR	2	5/25/05	Auditorium	RR / Mens	Ceiling Mount CF	1	0		0	1	1	0	0.00	WS-200	0	
970	Paradise Hills	051RR	RR	3	5/25/05	Auditorium	RR / Womens	Ceiling Mount CF	1	0		0	1	1	0	0.00	WS-200	0	
971	Paradise Hills	051RR	RR	4	5/25/05	10	RR / Coed	Ceiling Mount CF	1	26		26	2	2	52	0.05	WS-200	1	
972	Paradise Hills	051RR	RR	5	5/25/05	Bungalos	RR / Coed	Contact Flourescent	1	0		0	1	1	0	0.00	WS-200	0	
973	Penn Elementary	048RR	RR	1	5/25/05	500	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
974	Penn Elementary	048RR	RR	2	5/25/05	500	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
975	Penn Elementary	048RR	RR	3	5/25/05	400	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
976	Penn Elementary	048RR	RR	4	5/25/05	400	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
977	Penn Elementary	048RR	RR	5	5/25/05	300	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
978	Penn Elementary	048RR	RR	6	5/25/05	300	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
979	Penn Elementary	048RR	RR	7	5/25/05	Office	RR / Womens	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
980	Penn Elementary	048RR	RR	8	5/25/05	Office	RR / Mens	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1	
981	Perkins Elementary	023RR	RR	1	5/18/05	Office	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	0.5	
982	Perkins Elementary	023RR	RR	1	5/18/05	Office	RR / Mens	Recess CF Square	1	26		26	1	1	26	0.03	WS-200	0.5	
983	Perkins Elementary	023RR	RR	2	5/18/05	Office	RR / Womens	1X4 Wrap	2	3									



App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location							EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Blgd	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty	
991	Perry Elementary	049RR	RR	1	5/25/05	38	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
992	Perry Elementary	049RR	RR	2	5/25/05	Library	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
993	Perry Elementary	049RR	RR	3	5/25/05	40	RR / Coed	1X4 Wrap	2	0		0	2	4	0	0.00	WS-200	0	
994	Perry Elementary	049RR	RR	4	5/25/05	Auditorium	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
995	Perry Elementary	049RR	RR	5	5/25/05	Office	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
996	Perry Elementary	049RR	RR	6	5/25/05	Nurse	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
997	Pershing Middle School	101RR	RR	1	6/8/05	PE	RR	Ceiling Mount CF	2	0		0	3	6	0	0.00	WS-200	0	
998	Pershing Middle School	101RR	RR	2	6/8/05	PE	RR / Mens	Ceiling Mount CF	2	26		52	3	6	156	0.16	WS-200	1	
999	Pershing Middle School	101RR	RR	3	6/8/05	Cafeteria	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
1000	Pershing Middle School	101RR	RR	4	6/8/05	Custodian	RR / Coed	1X1 CF	2	26		52	2	4	104	0.10	WS-200	1	
1001	Pershing Middle School	101RR	RR	5	6/8/05	Library	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
1002	Pershing Middle School	101RR	RR	6	6/8/05	Office	RR / Mens	1X4 Strip	2	32		64	2	4	128	0.13	WS-200	1	
1003	Pershing Middle School	101RR	RR	7	6/8/05	Office	RR / Womens	1X4 Strip	2	32		64	2	4	128	0.13	WS-200	1	
1004	Pershing Middle School	101RR	RR	8	6/8/05	300	RR / Mens	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
1005	Pershing Middle School	101RR	RR	9	6/8/05	300	RR / Womens	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
1006	Pershing Middle School	101RR	RR	10	6/8/05	500	RR / Mens	1X4 Strip	2	32		64	2	4	128	0.13	WS-200	1	
1007	Pershing Middle School	101RR	RR	11	6/8/05	500	RR / Womens	1X4 Strip	2	32		64	3	6	192	0.19	WS-200	1	
1008	Pershing Middle School	101RR	RR	11	6/8/05	500	RR / Womens	Ceiling Mount CF	2	26		52	1	2	52	0.05	WS-200	1	
1009	Point Loma High	006RR	RR	1	5/17/05	300	RR / Womens	1X4	1	32		32	1	1	32	0.03	WS-200	1	
1010	Point Loma High	006RR	RR	2	5/17/05	300	RR / Mens	1X4	1	32		32	1	1	32	0.03	WS-200	1	
1011	Point Loma High	006RR	RR	3	5/17/05	200	RR / Womens	2X4	2	32		64	3	6	192	0.19	WS-200	1	
1012	Point Loma High	006RR	RR	4	5/17/05	200	RR / Mens	2X4	2	32		64	3	6	192	0.19	WS-200	1	
1013	Point Loma High	006RR	RR	5	5/17/05	200	RR / Womens	2X4	2	0		0	3	6	0	0.00	WS-200	0	
1014	Point Loma High	006RR	RR	6	5/17/05	200	RR / Mens	2X4	2	0		0	3	6	0	0.00	WS-200	0	
1015	Point Loma High	006RR	RR	7	5/17/05	400	RR / Mens	2X4	0	0		0	0	0	0	0.00	WS-200	0	
1016	Point Loma High	006RR	RR	8	5/17/05	Office	RR / Mens	2X4	2	32		64	2	4	128	0.13	WS-200	1	
1017	Point Loma High	006RR	RR	9	5/17/05	Office	RR / Womens	2X4	2	32		64	3	6	192	0.19	WS-200	1	
1018	Point Loma High	006RR	RR	10	5/17/05	900	RR / Coed	2X4	2	32		64	2	4	128	0.13	WS-200	1	
1019	Point Loma High	006RR	RR	11	5/17/05	900	RR / Mens	2X4	0	0		0	0	0	0	0.00	WS-200	0	
1020	Point Loma High	006RR	RR	12	5/17/05	PE	RR / Womens	1X1	1	14		14	2	2	28	0.03	WS-200	1	
1021	Point Loma High	006RR	RR	13	5/17/05	PE	RR / Womens	2X4	2	32		64	2	4	128	0.13	WS-200	1	
1022	Point Loma High	006RR	RR	14	5/17/05	400	RR	1X1	1	14		14	2	2	28	0.03	WS-200	1	
1023	Rolando Park Elementary	043RR	RR	1	5/23/05	6	RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1024	Rolando Park Elementary	043RR	RR	2	5/23/05	6	RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1025	Rolando Park Elementary	043RR	RR	3	5/23/05	Office	Nurse RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1026	Roosevelt Jr. High	038RR	RR	1	5/20/05	300	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
1027	Roosevelt Jr. High	038RR	RR	2	5/20/05	300	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
1028	Roosevelt Jr. High	038RR	RR	3	5/20/05	Staff Lounge	RR / Mens	1X4	2	32		64	3	6	192	0.19	WS-200	1	
1029	Roosevelt Jr. High	038RR	RR	4	5/20/05	Staff Lounge	RR / Womens	1X4	2	32		64	3	6	192	0.19	WS-200	1	
1030	Roosevelt Jr. High	038RR	RR	5	5/20/05	Office	RR / Coed	1X4	2	32		64	2	4	128	0.13	WS-200	1	
1031	Roosevelt Jr. High	038RR	RR	6	5/20/05	Main Office	RR / Coed	1X4	2	32		64	2	4	128	0.13	WS-200	1	
1032	Rosa Parks Elementary	057RR	RR	1	5/27/05	200	RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1033	Rosa Parks Elementary	057RR	RR	2	5/27/05	200	RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1034	Rosa Parks Elementary	057RR	RR	3	5/27/05	100	RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1035	Rosa Parks Elementary	057RR	RR	4	5/27/05	100	RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1036	Rosa Parks Elementary	057RR	RR	5	5/27/05	500	1st Floor RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1037	Rosa Parks Elementary	057RR	RR	6	5/27/05	500	1st Floor RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1038	Rosa Parks Elementary	057RR	RR	7	5/27/05	1	RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1039	Rosa Parks Elementary	057RR	RR	8	5/27/05	600	2nd Floor RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1040	Rosa Parks Elementary	057RR	RR	9	5/27/05	500	2nd Floor RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1	
1041	Ross Elementary	135RR	RR	1	6/23/05	Main	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1	
1042	Ross Elementary	135RR	RR	2	6/23/05	Cafeteria	RR / Coed	1X1 CF	2	26		52	1	2	52	0.05	WS-200	1	
1043	Ross Elementary	135RR	RR	3	6/23/05	Main	RR / Mens	1X4 Strip	2	32		64	2	4	128	0.13	WS-200	1	
1044	Ross Elementary	135RR	RR	4	6/23/05	Main	RR / Womens	1X4 Strip	2	32		64	2	4	128	0.13	WS-200	1	
1045	Ross Elementary	135RR	RR	5	6/23/05	Library	RR / Coed	1X4 Strip	2	0		0	1	2	0	0.00	WS-200	0	
1046	Rowan Elementary	035RR	RR	1	5/20/05	Main	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
1047	Rowan Elementary	035RR	RR	2	5/20/05	Main	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
1048	San Diego High School	001RR	RR	1	5/16/05	100	RR / Hallway	1X4	2	32		64	5	10	320	0.32	WS-200	1	
1049	San Diego High School	001RR	RR	2	5/16/05	400	RR / M & W	1X4	2	32		64	10	20	640	0.64	WS-200	1	
1050	San Diego High School	001RR	RR	3	5/16/05	700	RR M & W	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	2	
1051	San Diego High School	001RR	RR	4	5/16/05	600	RR / Coed	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	2	
1052	San Diego High School	001RR	RR	5	5/16/05	500	RR / Coed	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1	
1053	San Diego High School	001RR	RR	6	5/16/05	300	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
1054	San Diego High School	001RR	RR	7	5/16/05	800	RR / Womens	2X4	2	32		64	3	6	192	0.19	WS-200	1	
1055	San Diego High School	001RR	RR	8	5/16/05	800	RR / Mens	2X4	2	32		64	3	6	192	0.19	WS-200	1	
1056	San Diego High School	001RR	RR	9	5/16/05	900	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1	
1057	San Diego High School	001RR	RR	10	5/16/05	900	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
1058	San Diego High School	001RR	RR	11	5/16/05	900	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1	
1059	San Diego High School	001RR	RR	12	5/16/05	Bungalos	RR / Coed	2X4	4	32		128	1	4	128	0.13	WS-200	1	
1060	San Diego High School	001RR	RR	13	5/16/05	Bungalos	RR / Coed	2X4	4	32		128	1	4	128	0.13	WS-200	1	
1061	Sandburg	104RR	RR	1	6/13/05	Office	RR	2X4	2	0		0	2	4	0	0.00	WS-200	0	
1062	Sandburg	104RR	RR	2	6/13/05	Office	RR	2X4	2	0		0	2	4	0	0.00	WS-200	0	
1063	Sandburg	104RR	RR	3	6/13/05	Nurse	RR / Coed	2X4	2	32		64	1	2	64	0.06	WS-200	1	
1064	Sandburg	104RR	RR	4	6/13/05	300	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
1065	Sandburg	104RR	RR	5	6/13/05	300	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
1066	Sandburg	104RR	RR	6	6/13/05	Bungalos	RR / Mens	1X4	1	32		32	1	1	32	0.03	WS-200	1	
1067	Sandburg	104RR	RR	7	6/13/05	Bungalos	RR / Womens	1X4	1	32		32	1	1	32	0.03	WS-200	1	
1068	Sandburg	104RR	RR	8	6/13/05	500	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
1069	Sandburg	104RR	RR	9	6/13/05	500	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
1070	Sandburg	104RR	RR	10	6/13/05	400	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
1071	Sandburg	104RR	RR	11	6/13/05	400	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1	
1072	Sandburg	104RR	RR	12	6/13/05	600	RR / Mens	2X4	2	32		6							

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location							EXISTING FIXTURE											SENSORS	
	School	ID #	Type	Item	Date Complete	Blgd	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty		
1081	SCPA	153RR	RR	5	10/6/05	Office	RR / Womens	6" Can Fl	1	26		26	4	4	104	0.10	WS-200	1		
1082	SCPA	153RR	RR	6	10/6/05	Nurse	RR / Coed	1X4 Priz	1	32		32	1	1	32	0.03	WS-200	1		
1083	SCPA	153RR	RR	7	10/6/05	Nurse	RR / Coed	1X4 Priz	1	32		32	1	1	32	0.03	WS-200	1		
1084	SCPA	153RR	RR	8	10/6/05	Library	RR / Coed	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1		
1085	SCPA	153RR	RR	9	10/6/05	PE	RR / Mens	1X4 Wrap	1	32		32	2	2	64	0.06	WS-200	1		
1086	SCPA	153RR	RR	10	10/6/05	PE	RR / Womens	1X4 Priz	2	32		64	2	4	128	0.13	WS-200	1		
1087	SCPA	153RR	RR	11	10/6/05	Supply Rm	RR / Coed	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1		
1088	SCPA	153RR	RR	12	10/6/05	Cafeteria	RR / Coed	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1		
1089	Scripps	111RR	RR	1	6/16/05	300	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1		
1090	Scripps	111RR	RR	2	6/16/05	300	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1		
1091	Scripps	111RR	RR	3	6/16/05	600	RR / Mens	2X4	3	32		96	1	3	96	0.10	WS-200	1		
1092	Scripps	111RR	RR	4	6/16/05	600	RR / Womens	2X4	3	32		96	1	3	96	0.10	WS-200	1		
1093	Scripps	111RR	RR	5	6/16/05	100	RR / Coed	2X4	3	32		96	1	3	96	0.10	WS-200	1		
1094	Scripps Ranch	112RR	RR	1	6/16/05	414	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1095	Scripps Ranch	112RR	RR	2	6/16/05	405	RR	1X4	2	32		64	2	4	128	0.13	WS-200	1		
1096	Scripps Ranch	112RR	RR	3	6/16/05	B-7	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1097	Scripps Ranch	112RR	RR	4	6/16/05	B-7	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1098	Scripps Ranch	112RR	RR	5	6/16/05	Stadium	RR	1X4	2	0		0	7	14	0	0.00	WS-200	0		
1099	Scripps Ranch	112RR	RR	6	6/16/05	Stadium	RR	1X4	2	0		0	9	18	0	0.00	WS-200	0		
1100	Scripps Ranch	112RR	RR	7	6/16/05	501	RR	1X4	2	0		0	2	4	0	0.00	WS-200	0		
1101	Scripps Ranch	112RR	RR	8	6/16/05	450	RR	1X4	2	0		0	2	4	0	0.00	WS-200	0		
1102	Scripps Ranch	112RR	RR	9	6/16/05	Gym	RR	1X4	2	0		0	6	12	0	0.00	WS-200	0		
1103	Scripps Ranch	112RR	RR	10	6/16/05	Gym	RR	1X4	2	0		0	7	14	0	0.00	WS-200	0		
1104	Scripps Ranch	112RR	RR	11	6/16/05	Kitchen	RR	1X4	2	32		64	2	4	128	0.13	WS-200	2		
1105	Scripps Ranch	112RR	RR	12	6/16/05	754	RR	1X4	1	32		32	3	3	96	0.10	WS-200	1		
1106	Scripps Ranch	112RR	RR	13	6/16/05	754	RR	1X4	1	32		32	3	3	96	0.10	WS-200	1		
1107	Scripps Ranch	112RR	RR	14	6/16/05	Auditorium	RR	1X4	2	0		0	5	10	0	0.00	WS-200	0		
1108	Scripps Ranch	112RR	RR	15	6/16/05	Auditorium	RR	1X4	2	0		0	5	10	0	0.00	WS-200	0		
1109	Scripps Ranch	112RR	RR	16	6/16/05	Office	RR	1X4	2	0		0	3	6	0	0.00	WS-200	0		
1110	Scripps Ranch	112RR	RR	17	6/16/05	Office	RR	1X4	2	0		0	3	6	0	0.00	WS-200	0		
1111	Sequoia Elementary	156RR	RR	1	6/22/05	Main	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1		
1112	Sequoia Elementary	156RR	RR	2	6/22/05	Main	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1		
1113	Sequoia Elementary	156RR	RR	3	6/22/05	Library	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1		
1114	Sequoia Elementary	156RR	RR	4	6/22/05	Nurse	RR / Coed	1X4 Priz	2	32		64	1	2	64	0.06	WS-200	1		
1115	Serra High	090RR	RR	1	6/6/05	400	RR / Mens	1X4 Priz	2	0		0	5	10	0	0.00	WS-200	0		
1116	Serra High	090RR	RR	1	6/6/05	400	RR / Mens	HPS?	1	0		0	2	2	0	0.00	WS-200	0		
1117	Serra High	090RR	RR	2	6/6/05	400	RR / Womens	1X4 Priz	2	0		0	5	10	0	0.00	WS-200	0		
1118	Serra High	090RR	RR	2	6/6/05	400	RR / Womens	HPS?	1	0		0	2	2	0	0.00	WS-200	0		
1119	Serra High	090RR	RR	3	6/6/05	400	RR / Mens	1X4 Strp	1	0		0	3	3	0	0.00	WS-200	0		
1120	Serra High	090RR	RR	3	6/6/05	400	RR / Mens	HPS?	1	0		0	1	1	0	0.00	WS-200	0		
1121	Serra High	090RR	RR	4	6/6/05	400	RR / Womens	1X4 Strp	1	0		0	3	3	0	0.00	WS-200	0		
1122	Serra High	090RR	RR	4	6/6/05	400	RR / Womens	HPS?	1	0		0	1	1	0	0.00	WS-200	0		
1123	Serra High	090RR	RR	5	6/6/05	400	Kitchen RR / Mens	1X4 Strp	2	32		64	1	2	64	0.06	WS-200	1		
1124	Serra High	090RR	RR	6	6/6/05	400	Kitchen RR / Womens	1X4 Strp	2	32		64	1	2	64	0.06	WS-200	1		
1125	Serra High	090RR	RR	7	6/6/05	400	RR / Mens	1X4 Strp	3	32		96	3	9	288	0.29	WS-200	1		
1126	Serra High	090RR	RR	8	6/6/05	400	RR / Womens	1X4 Strp	3	32		96	3	9	288	0.29	WS-200	1		
1127	Serra High	090RR	RR	9	6/6/05	Office	RR / Mens	1X4 Strp	2	0		0	2	4	0	0.00	WS-200	0		
1128	Serra High	090RR	RR	10	6/6/05	Office	RR / Womens	1X4 Strp	2	0		0	2	4	0	0.00	WS-200	0		
1129	Serra High	090RR	RR	11	6/6/05	300	RR / Mens	1X4 Strp	2	0		0	1	2	0	0.00	WS-200	0		
1130	Serra High	090RR	RR	12	6/6/05	300	RR / Womens	1X4 Strp	2	0		0	1	2	0	0.00	WS-200	0		
1131	Serra High	090RR	RR	13	6/6/05	800	RR / Womens	F40/30 Bx 2X2 Priz	2	0		0	3	6	0	0.00	WS-200	0		
1132	Serra High	090RR	RR	14	6/6/05	800	RR / Mens	F40/30 Bx 2X2 Priz	2	0		0	3	6	0	0.00	WS-200	0		
1133	Serra High	090RR	RR	15	6/6/05	Stadium	RR / Mens	1X4 Strp	2	32		64	4	8	256	0.26	WS-200	0.5		
1134	Serra High	090RR	RR	15	6/6/05	Stadium	RR / Mens	Ceiling Mount CF	2	16		32	1	2	32	0.03	WS-200	0.5		
1135	Serra High	090RR	RR	16	6/6/05	Stadium	RR / Womens	1X4 Strp	2	32		64	4	8	256	0.26	WS-200	0.5		
1136	Serra High	090RR	RR	16	6/6/05	Stadium	RR / Womens	Ceiling Mount CF	2	16		32	1	2	32	0.03	WS-200	0.5		
1137	Sessions Elementary	131RR	RR	1	6/22/05	Main	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1138	Sessions Elementary	131RR	RR	2	6/22/05	Main	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1139	Sessions Elementary	131RR	RR	3	6/22/05	Main	RR	2X2	2	17		34	1	2	34	0.03	WS-200	1		
1140	Sherman Elementary	014RR	RR	1	5/18/05	7	RR	Flourecent Fixture	1	13		13	1	1	13	0.01	WS-200	1		
1141	Sherman Elementary	014RR	RR	2	5/18/05	12	RR	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1142	Sherman Elementary	014RR	RR	3	5/18/05	B6	RR	1X4	2	0		0	3	6	0	0.00	WS-200	0		
1143	Sherman Elementary	014RR	RR	4	5/18/05	B1	RR	1X4	2	0		0	3	6	0	0.00	WS-200	0		
1144	Sherman Elementary	014RR	RR	5	5/18/05	D5	RR	1X4	2	0		0	3	6	0	0.00	WS-200	0		
1145	Sherman Elementary	014RR	RR	6	5/18/05	D1	RR	1X4	2	0		0	3	6	0	0.00	WS-200	0		
1146	Sherman Elementary	014RR	RR	7	5/18/05	Teacher Lounge	RR	1X4	2	32		64	3	6	192	0.19	WS-200	1		
1147	Sherman Elementary	014RR	RR	8	5/18/05	Teacher Lounge	RR	1X4	2	32		64	3	6	192	0.19	WS-200	1		
1148	Silver Gate	064RR	RR	1	5/19/05	Auditorium	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1149	Silver Gate	064RR	RR	2	5/19/05	Office	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1150	Silver Gate	064RR	RR	3	5/19/05	Office	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1151	Silver Gate	064RR	RR	4	5/19/05	Library	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1152	Silver Gate	064RR	RR	5	5/19/05	3	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1		
1153	Spreckles	149RR	RR	1	9/27/05	Office	Nurse RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1		
1154	Spreckles	149RR	RR	2	9/27/05	Office	RR / Womens	2X4 Priz	2	32		64	2	4	128	0.13	WS-200	1		
1155	Spreckles	149RR	RR	3	9/27/05	Office	RR / Mens	2X4 Priz	2	32		64	2	4	128	0.13	WS-200	1		
1156	Spreckles	149RR	RR	4	9/27/05	Cafeteria	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1		
1157	Spreckles	149RR	RR	5	9/27/05	10	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1		
1158	Spreckles	149RR	RR	6	9/27/05	10	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1		
1159	Spreckles	149RR	RR	7	9/27/05	20	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1		
1160	Spreckles	149RR	RR	8	9/27/05	20	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1		
1161	Spreckles	149RR	RR	9	9/27/05	30	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1		
1162	Spreckles	149RR	RR	10	9/27/05	30	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1		
1163	Spreckles	149RR	RR	11	9/27/05	40	RR / Coed	2X4 Priz	2	32										

App. D - Occupancy Sensor Field Installation Report: Rest Rooms (continued)

Obs	Location						EXISTING FIXTURE										SENSORS	
	School	ID #	Type	Item	Date Complete	Bldg	Room	Fixture Type	Lamps Per Fixture	Lamp Watts	Ballast Watts	Fixture Watts	Fixture Qty	Lamp Qty	Total Fixture Watts	Total Fixture kw	Sensor Type	Sensor Qty
1261	Walker	105RR	RR	9	6/14/05	200	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1
1262	Walker	105RR	RR	10	6/14/05	100	RR / Mens	2X4	2	32		64	1	2	64	0.06	WS-200	1
1263	Walker	105RR	RR	11	6/14/05	100	RR / Womens	2X4	2	32		64	1	2	64	0.06	WS-200	1
1264	Walker	105RR	RR	12	6/14/05	Kitchen	RR / Coed	2X4	2	32		64	2	4	128	0.13	WS-200	2
1265	Walker	105RR	RR	13	6/14/05	Kitchen	Halfway	2X4	2	32		64	1	2	64	0.06	WS-200	1
1266	Walker	105RR	RR	14	6/14/05	Bungalos	RR / Coed	Flourecent Fixture	1	13		13	1	1	13	0.01	WS-200	1
1267	Washington Elementary	002RR	RR	1	5/17/05	Main Bldg	RR	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1268	Washington Elementary	002RR	RR	2	5/17/05	Main Bldg	RR	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1269	Washington Elementary	002RR	RR	3	5/17/05	Floor	RR	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1270	Washington Elementary	002RR	RR	4	5/17/05	Kitchen	RR	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1271	Washington Elementary	002RR	RR	5	5/17/05	Library	RR	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1272	Washington Elementary	002RR	RR	6	5/17/05	Library	RR	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1273	Washington Elementary	002RR	RR	7	5/17/05	Main Office	RR	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1274	Washington Elementary	002RR	RR	8	5/17/05	Main Office	RR	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1275	Webster	071RR	RR	1	5/23/05	Office	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	1
1276	Webster	071RR	RR	2	5/23/05	Office	RR / Womens	1X4	2	32		64	1	2	64	0.06	WS-200	1
1277	Webster	071RR	RR	3	5/23/05	Portable	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1
1278	Webster	071RR	RR	4	5/23/05	Library	RR / Coed	1X4	2	32		64	2	4	128	0.13	WS-200	1
1279	Webster	071RR	RR	5	5/23/05	Library	RR / Coed	1X4	2	32		64	2	4	128	0.13	WS-200	1
1280	Wedgforth	087RR	RR	1	6/6/05	Main	Nurse RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	0.5
1281	Wedgforth	087RR	RR	1	6/6/05	Main	Nurse RR / Coed	Flourecent Fixture	2	13		26	1	2	26	0.03	WS-200	0.5
1282	Wedgforth	087RR	RR	2	6/6/05	Cafeteria	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1
1283	Wedgforth	087RR	RR	3	6/6/05	Library	RR / Coed	1X4	2	32		64	1	2	64	0.06	WS-200	1
1284	Wedgforth	087RR	RR	4	6/6/05	Main	RR	Flourecent Fixture	2	0		0	1	2	0	0.00	WS-200	0
1285	Wedgforth	087RR	RR	5	6/6/05	Main	RR / Mens	1X4	2	32		64	1	2	64	0.06	WS-200	0.5
1286	Wedgforth	087RR	RR	5	6/6/05	Main	RR / Mens	Flourecent Fixture	2	13		26	1	2	26	0.03	WS-200	0.5
1287	Whitman Elementary	147RR	RR	1	9/19/05	Library	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1
1288	Whitman Elementary	147RR	RR	2	9/19/05	Kitchen	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1289	Whitman Elementary	147RR	RR	3	9/19/05	Health	RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1290	Whitman Elementary	147RR	RR	4	9/19/05	Lounge	RR / Mens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1291	Whitman Elementary	147RR	RR	5	9/19/05	Lounge	RR / Womens	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1292	Wilson Academy	097RR	RR	1	6/8/05	100	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1293	Wilson Academy	097RR	RR	2	6/8/05	100	Nurse RR / Coed	1X4 Wrap	2	32		64	1	2	64	0.06	WS-200	1
1294	Wilson Academy	097RR	RR	3	6/8/05	100	RR / Womens	1X4 Priz	2	32		64	2	4	128	0.13	WS-200	1
1295	Wilson Academy	097RR	RR	4	6/8/05	100	RR / Mens	1X4 Priz	2	32		64	3	6	192	0.19	WS-200	1
1296	Wilson Academy	097RR	RR	5	6/8/05	500	RR / Mens	1X8 Strip	4	32		128	1	4	128	0.13	WS-200	1
1297	Wilson Academy	097RR	RR	6	6/8/05	500	RR / Womens	1X8 Strip	4	32		128	1	4	128	0.13	WS-200	1
1298	Wilson Academy	097RR	RR	7	6/8/05	400	RR	Unknown	0	0		0	0	0	0	0.00	WS-200	0
1299	Wilson Academy	097RR	RR	8	6/8/05	500	RR / Coed	1X4 Strip	2	32		64	1	2	64	0.06	WS-200	1
1300	Wilson Academy	097RR	RR	8	6/8/05	500	RR / Coed	1X1 Recessed	2	26		52	1	2	52	0.05	WS-200	1
1301	Wilson Academy	097RR	RR	9	6/8/05	gym	RR / Coed	1X1 Recessed	1	26		26	1	1	26	0.03	WS-200	1
1302	Wilson Academy	097RR	RR	10	6/8/05	200	RR / Mens	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1
1303	Wilson Academy	097RR	RR	11	6/8/05	200	RR / Womens	1X4 Wrap	1	32		32	1	1	32	0.03	WS-200	1
1304	Wilson Academy	097RR	RR	12	6/8/05	200	2nd Floor RR / Womens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1
1305	Wilson Academy	097RR	RR	13	6/8/05	200	2nd Floor RR / Mens	1X4 Wrap	2	32		64	2	4	128	0.13	WS-200	1
1306	Zamorano	050RR	RR	1	5/25/05	Lounge North	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1
1307	Zamorano	050RR	RR	2	5/25/05	47 North	RR / Coed	2X4 Priz	2	0		0	1	2	0	0.00	WS-200	0
1308	Zamorano	050RR	RR	3	5/25/05	Bungalos	RR / Womens	Ceiling Mount CF	1	26		26	1	1	26	0.03	WS-200	1
1309	Zamorano	050RR	RR	4	5/25/05	Bungalos	RR / Mens	Ceiling Mount CF	1	0		0	1	1	0	0.00	WS-200	0
1310	Zamorano	050RR	RR	5	5/25/05	Trng North Ctr	RR / Mens	2X4 Priz	2	32		64	2	4	128	0.13	WS-200	1
1311	Zamorano	050RR	RR	6	5/25/05	Training Center	RR / Womens	2X4 Priz	2	32		64	2	4	128	0.13	WS-200	1
1312	Zamorano	050RR	RR	7	5/25/05	Office	Nurse RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1
1313	Zamorano	050RR	RR	8	5/25/05	Lounge South	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1
1314	Zamorano	050RR	RR	9	5/25/05	Staff Lounge	RR / Womens	1X4 Wrap	2	32		64	3	6	192	0.19	WS-200	1
1315	Zamorano	050RR	RR	10	5/25/05	Staff Lounge	RR / Mens	1X4 Wrap	2	32		64	3	6	192	0.19	WS-200	1
1316	Zamorano	050RR	RR	11	5/25/05	Cafeteria	RR / Coed	2X4 Priz	2	32		64	1	2	64	0.06	WS-200	1



App. D: Occupancy Sensor Field Installation Report: Halls, Locker Rooms, Beta Schools (continued)

Table with columns: Obj, ID, Item, School, BLDG, Floor, Fixture Height, Fixture Mounting Surface, Detailed Area Description, Room Code, PRE QTY, Existing Code (Convector), Existing SPC, Lamps Per Fixture, Lamp Watts, Total Watts, Fixture Qty, Exist. Cont., Sensor Qty, Sensor Type. Rows include locations like MADISON HIGH, MIRA MESA, OCEAN BEACHES, and SCPA.

App. D: Occupancy Sensor Field Installation Report: Halls, Locker Rooms, Beta Schools (continued)

Obs	ID	Item	School	BLDG	Floor	Fixture Height	Fixture Mounting	Detailed Area Description	Room Code	PRE QTY	Existing Code (Collector)	Existing SPC	Lamps Per Fixture	Lamp Wats	Total Wats	Fixture Qty	Excl. Cont.	Sensor Qty	Sensor Type
441	1045	7	VISTA GRANDE	ADMIN	1	10	T	SUPPLY	BS	14	24RT-F232-E1-P	F24LL	2	32	64	14	SS	2	W1000
442	1045	8	VISTA GRANDE	ADMIN	1	10	HL	SUPPLY STORAGE	BS	1	14S-F132-E1	F41LL	1	32	32	1	SS	1	WS
443	1045	9	VISTA GRANDE	ADMIN	1	10	T	MP ROOM	BS	16	24RT-F232-E1-P	F24LL	2	32	64	16	SS	2	W1000
444	1045	10	VISTA GRANDE	ADMIN	1	10	T	MP FACULTY LOUNGE	BS	4	24RT-F232-E1-P	F24LL	2	32	64	4	SS	1	W1000
445	1045	11	VISTA GRANDE	ADMIN	1	10	T	GLASS BY LOUNGE	BS	4	24RT-F232-E1-P	F24LL	2	32	64	4	SS	1	W1000
446	1045	12	VISTA GRANDE	ADMIN	1	25	T	LIBRARY OPEN	BS	29	24RT-F232-E1-P	F24LL	4	32	128	29	SS	1	W2000
447	1045	13	VISTA GRANDE	ADMIN	2	10	T	LIBRARY HALLS	BS	25	24RT-F232-E1-P	F24LL	2	32	64	25	7	4	W2000I
448	1048	14	VISTA GRANDE					DO NOT DO LIBRARY COMP ROOMS/OFFICES (PER TRM HARVEY)	BS						0				
449	1129	1	WALKER ES	OFFICE	1	10	HL	MAN OFFICE-VICE PRINCIPLE	BS	2	44RT-F432-E1-O	F44LL	4	29	116	SS	1	WS	
450	1129	2	WALKER ES	OFFICE	1	10	HL	NURSE	BS	2	44RT-F432-E1-PB	F44LL	4	29	116	SS	1	WS	
451	1129	3	WALKER ES	OFFICE	1	10	HL	COPY/WORKROOM	BS	1	24RT-F232-E1-PB	F24LL	2	29	58	SS	1	W1000H	
452	1129	4	WALKER ES	OFFICE	1	10	HL	COPY/SUPPLY	BS	1	24RT-F232-E1-PB	F24LL	4	29	116	SS	1	WS	
453	1129	5	WALKER ES	OFFICE	1	10	HL	PRINCIPAL	BS	2	44RT-F432-E1-PB	F44LL	4	29	116	SS	1	WS	
454	1129	6	WALKER ES	OFFICE	1	10	T	CONF 2	BS	5	44RT-F432-E1-PB	F44LL	4	29	116	SS	1	W1000I	
455	1129	7	WALKER ES	OFFICE	1	10	HL	SUPPLY	BS	25	14W-F232-E1-W	F24LL	2	29	58	DS	2	DT200H	
456	1129	8	WALKER ES	MP	1	10	T	FACULTY LOUNGE	BS	29	44RT-F432-E1-PB	F44LL	4	29	116	DS	2	W2000I	
457	1129	9	WALKER ES	MP	1	10	T	MULTIPURPOSE ROOM	BS	29	44RT-F432-E1-PB	F44LL	4	29	116	DS	2	W2000I	
458	1129	10	WALKER ES	MP	1	10	T	MP ROOM STRG/OFFICE	BS	2	24RT-F232-E1-PB	F24LL	2	29	58	SS	1	W500H	
459	1129	11	WALKER ES	MP	1	11	T	MULTIPURPOSE ROOM AMMUSE	BS	8	44RT-F432-E1-PB	F44LL	4	29	116	DS	1	W1000	
460	1129	12	WALKER ES	MP	1	11	T	CAFETERIA ROOM	BS	8	44RT-F432-E1-PB	F44LL	4	29	116	DS	1	W1000	
461	1129	13	WALKER ES	MP	1	11	T	LIBRARY	BS	10	44RT-F432-E1-PB	F44LL	4	29	116	DS	2	W2000	
462	1129	14	WALKER ES	MP	1	11	T	WORKROOM	BS	10	44RT-F432-E1-PB	F44LL	4	29	116	DS	2	W2000	
463	1129	15	WALKER ES	100	1	10	T	3A	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
464	1129	16	WALKER ES	100	1	10	T	3B	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
465	1129	17	WALKER ES	100	1	10	T	3C	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
466	1129	18	WALKER ES	100	1	10	T	3D	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
467	1129	19	WALKER ES	100	1	10	T	3E	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
468	1129	20	WALKER ES	100	1	10	T	CONFERENCE/TESTING	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
469	1129	21	WALKER ES	100	1	10	T	3F-NUMBER COVERED BY POSTER	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
470	1129	22	WALKER ES	100	1	10	T	UNMARKED WORKROOM BY RR	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
471	1129	23	WALKER ES	200	1	10	T	4E	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
472	1129	24	WALKER ES	200	1	10	T	4F	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
473	1129	25	WALKER ES	200	1	10	T	4D	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
474	1129	26	WALKER ES	200	1	10	T	UNMARKED SPEECH AND LANGUAGE	BS	5	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
475	1129	27	WALKER ES	200	1	10	T	ROOM 93-WORKROOM BY RR	BS	3	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
476	1129	28	WALKER ES	200	1	10	T	WORKROOM BY RR	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
477	1129	29	WALKER ES	200	1	10	T	4B	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
478	1129	30	WALKER ES	200	1	10	T	4A	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
479	1129	31	WALKER ES	300	1	10	T	5E	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	W2000	
480	1129	32	WALKER ES	300	1	10	T	5F	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
481	1129	33	WALKER ES	300	1	10	T	5D	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	W2000	
482	1129	34	WALKER ES	300	1	10	T	UNMARKED CONFERENCE/SPEECH	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
483	1129	35	WALKER ES	300	1	10	T	WORKROOM BY RR	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
484	1129	36	WALKER ES	300	1	10	T	5B	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	W2000	
485	1129	37	WALKER ES	300	1	10	T	5A	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	W2000	
486	1129	38	WALKER ES	300	1	10	T	5G	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
487	1129	39	WALKER ES	400	1	10	T	6E	BS	4	44RT-F432-E1-PB	F44LL	2	29	58	DS	1	WS	
488	1129	40	WALKER ES	400	1	10	T	CONFERENCE/SPEECH	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
489	1129	41	WALKER ES	400	1	10	T	WORKROOM BY RR	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
490	1129	42	WALKER ES	400	1	10	T	6B	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	W2000	
491	1129	43	WALKER ES	400	1	10	T	6A	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
492	1129	44	WALKER ES	400	1	10	T	6C	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
493	1129	45	WALKER ES	400	1	10	T	6A	BS	4	24RT-F232-E1-PB	F24LL	2	29	58	DS	1	WS	
494									BS					0					
496	1338		CHESTERTON	ADMIN	1	10	T	HALLWAY	HW	3	24RT-F232-E1-PB	F24LL	2	29	58	SS	1	1000	
497	1338		CHESTERTON	500	1	10	T	HALL	HW	5	24RT-F232-E1-PB	F24LL	2	29	58	SS	1	W1000	
498	1338		CHESTERTON	400	1	10	T	HALL	HW	5	24RT-F232-E1-PB	F24LL	2	29	58	SS	1	W1000	
499	1338		CHESTERTON	300	1	10	T	HALL	HW	5	24RT-F232-E1-PB	F24LL	2	29	58	SS	1	W1000	
500	0483	18	CLARK MS	GYM	1	10	T	MAIN CORRIDOR	HW	16	24RT-F232-E1-P	F24LL	2	29	58	SS	1	W1000	
501	0038		BROOKLYN ES	EAST BLDG	2	8	HL	CORRIDOR	HW	16	14W-F232-E1-W	F24LL	2	29	58	SS	3	W2000H	
502	0038		BROOKLYN ES	EAST BLDG	2	8	HL	CORRIDOR	HW	13	14W-F232-E1-W	F24LL	2	29	58	SS	3	W2000H	
503	0038		BROOKLYN ES	ADMIN	1	10	T	CORRIDOR	HW	17	24RT-F232-E1-P	F24LL	2	29	58	SS	1	W2000H	
504	0858		DALARD	ADMIN	1	10	T	ADMIN HALL	HW	4	24RT-F232-E1-PB	F24LL	2	29	58	SS	1	W1000	
505	0858		DALARD	200	1	10	T	HALLWAY	HW	5	24RT-F232-E1-PB	F24LL	2	29	58	SS	1	W1000	
506	0858		DALARD	300	1	10	T	HALLWAY	HW	5	24RT-F232-E1-PB	F24LL	2	29	58	SS	1	W1000	
507	0858		DALARD	400	1	10	T	HALLWAY	HW	5	24RT-F232-E1-PB	F24LL	2	29	58	SS	1	W1000	
508	0178		DANA	MAIN	1	12	III	HALL 1 BY ROOM 185	HW	4	14W-F132-E1-W	F24LL	2	29	58	SS	1	W2000H	
509	0178		DANA	MAIN	1	12	III	HALL 2 BY ROOM 184	HW	4	14W-F132-E1-W	F24LL	2	29	58	SS	1	W2000H	
510	0178		DANA	MAIN	1	12	III	HALL C BY ROOM 124	HW	3	14W-F132-E1-W	F24LL	2	29	58	SS	1	W2000H	
511	0178		DANA	MAIN	1	12	III	HALL E BY ROOM 130	HW	4	14W-F132-E1-W	F24LL	2	29	58	SS	2	W2000H	
512	0178		DANA	MAIN	1	12	III	HALL F BY ROOM 106	HW	5	14W-F132-E1-W	F24LL	2	29	58	SS	2	W2000H	
513	0178		DANA	MAIN	2	12	III	HALL BY ROOM 250	HW	4	14W-F132-E1-W	F24LL	2	29	58				



App. D: Occupancy Sensor Field Installation Report: Halls, Locker Rooms, Beta Schools (continued)

Table with columns: ID, Item, School, BLDG, Floor, Fixture Height, Fixture Mounting, Detailed Area Description, Room Code, PRE QTY, Existing Code (Contractor), Existing SPC, Lamps Per Fixture, Lamp Wats, Total Wats, Fixture Qty, Exist. Cont., Sensor Qty, Sensor Type. Rows include schools like Hickman, Hoover, Jarabek, Mann, Mason, Memorial, Montgomey, Morse, OAK Park, Ocean Beach, Pacific Beach, Point Loma High, Serran High School, Sherman ES, Silvergate, Spreckles.



App. D: Occupancy Sensor Field Installation Report: Halls, Locker Rooms, Beta Schools (continued)

Table with columns: QTY, ID, Item, School, BLDG, Floor, Fixture Height, Fixture Mounting, Detailed Area Description, Room Code, PRE QTY, Existing Code (Coverlet), Existing SPC, Lamps Per Fixture, Lamp Wats, Total Wats, Fixture Qty, Exist. Cont., Sensor Qty, Sensor Type. Rows include various schools like SPECTECLES, UNIVERSITY CITY HIGH SCHOOL, CHALLENGER MS-BETA, CLAREMONT HS, CLARK MS, CORREIA MS, CRAWFORD, DE PORTOLA MS-BETA, and PATRICK HENRY.



App. D: Occupancy Sensor Field Installation Report: Halls, Locker Rooms, Beta Schools (continued)

Table with columns: ID, Item, School, BLDG, Floor, Fixture Height, Fixture Mounting Surface, Detailed Area Description, Room Code, PRE QTY, Existing Code (Contractor), Existing SPC, Lamps Per Fixture, Lamp Watts, Total Watts, Fixture Qty, Exist. Cont., Sensor Qty, Sensor Type. Rows include schools like Patrick Henry, Point Loma High, Kearny, Kierler, Kroc MS, Madison High, Mann MS, Memorial MS, and Mira Mesa.



App. D: Occupancy Sensor Field Installation Report: Halls, Locker Rooms, Beta Schools (continued)

ID	Item	School	BLDG	Floor	Fixture Height	Fixture Mounting Surface	Detailed Area Description	Room Code	PRE QTY	Existing Code (Coverages)	Existing SPC	Lamps Per Fixture	Lamp Wats	Total Wats	Fixture Qty	Exist. Cont.	Sensor Qty	Sensor Type	
881	1275	MISSON BAY HS	GIRLS	1	15	HL	GIRLS LOCKER	LR	20	14W-F232-E1-W	F42LL	2	29	58		SS4	2	W2000	
882	1275	MISSON BAY HS	GIRLS	1	15	HL	GIRLS SHOWER	LR	12	14W-F232-E1-W	F42LL	2	29	58		SS			
883	1275	MISSON BAY HS	BOYS	1	15	HL	BOYS LOCKER	LR	25	14W-F232-E1-W	F42LL	2	29	58		SS4	3	W2000	
884	1275	MISSON BAY HS	BOYS	1	15	HL	FOOTBALL EQUIPMENT BY SHOWER	LR	2	14W-F232-E1-W	F42LL	2	29	58		SS	1	WS	
885	1275	MISSON BAY HS	GIRLS	1	10	HL	COACH	LR	2	14W-F232-E1-W	F42LL	2	29	58					
886	1275	MISSON BAY HS	GIRLS	1	10	HL	COACH EQUIP W/MT	LR	4	14W-F232-E1-W	F42LL	2	29	58					
887	1275	MISSON BAY HS	GIRLS	1	10	HL	COACH ANGELA	LR	2	14W-F232-E1-W	F42LL	2	29	58					
888	1275	MISSON BAY HS	GIRLS	1	10	HL	ACTIVITY DANCE ROOM	LR	10	14W-F232-E1-W	F42LL	2	29	58					
889	1275	MISSON BAY HS	GIRLS	1	10	HL	ACTIVITY STORAGE ROOM	LR	2	14W-F232-E1-W	F42LL	2	29	58					
890	1275	MISSON BAY HS	BOYS	1	10	HL	COACH	LR	2	14W-F232-E1-W	F42LL	2	29	58					
891	1275	MISSON BAY HS	BOYS	1	10	HL	COACH EQUIPMENT	LR	2	14W-F232-E1-W	F42LL	2	29	58					
892	1275	MISSON BAY HS	BOYS	1	10	HL	COACH 2	LR	2	14W-F232-E1-W	F42LL	2	29	58					
893	1275	MISSON BAY HS	BOYS	1	12	HL	TEAM ROOM	LR	1	14W-F232-E1-W	F42LL	2	29	58		SS	1	D7200	
894	1385	MONTGOMERY MS	PE	1	12	HL	BOYS LOCKER	LR	43	14R-F192-E1-P	F41LL	1	29	29		DS2	2	W2000	
895	1385	MONTGOMERY MS	PE	1	10	HL	EQUIPMENT CAGE	LR	4	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
896	1385	MONTGOMERY MS	PE	1	12	HL	GIRLS LOCKER NO ACCESS-COPIED BOYS	LR	43	14R-F192-E1-P	F41LL	1	29	29		DS2	2	W2000	
897	1385	MONTGOMERY MS	PE	1	10	HL	EQUIPMENT	LR	2	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
898	1385	MONTGOMERY MS	PE	1	10	HL	ADAPTED	LR	16	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
899	1385	MONTGOMERY MS	PE	1	10	HL	EQUIPMENT CAGE	LR	4	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
900	0603	MORSE	GYM	1	14	HL	BOYS LOCKER	LR	48	14R-F232-E1-P	F42LL	2	29	58		BRKRS	4	W1000	
901	0603	MORSE	GYM	1	14	HL	GIRLS TEAM ROOM	LR	2	14W-F232-E1-W	F42LL	2	29	58		N	1	D7200	
902	0603	MORSE	GYM	1	14	HL	BOYS LOCKER	LR	48	14R-F232-E1-P	F42LL	2	29	58		BRKRS	4	W1000	
903	0603	MORSE	GYM	1	10	HL	GIRLS LOCKER	LR	8	14R-F232-E1-P	F42LL	2	29	58		SS	1	W500	
904	0603	MORSE	GYM	1	10	HL	EQUIPMENT ROOM	LR	4	14R-F232-E1-P	F42LL	2	29	58		SS	1	W500	
905	0603	MORSE	GYM	1	10	HL	COACH LOUNGE	LR	2	14R-F232-E1-P	F42LL	2	29	58		SS	1	W500	
906	0603	MORSE	GYM	1	10	HL	EQUIPMENT ROOM LAUNDRY	LR	8	14R-F232-E1-P	F42LL	2	29	58		SS	1	W500	
907	0603	MORSE	GYM	1	10	HL	WRESTLING WEIGHT ROOM	LR	8	14R-F232-E1-P	F42LL	2	29	58		SS	1	D7200	
908	0603	MORSE	GYM	1	10	HL	BOYS LOCKER	LR	8	14R-F232-E1-P	F42LL	2	29	58		SS	1	W500	
909	0603	MORSE	GYM	1	10	HL	BOYS LOCKER ROOM 2	LR	8	14R-F232-E1-P	F42LL	2	29	58		SS	1	W500	
910	0603	MORSE	GYM	1	10	HL	BOYS FOOTBALL EQUIP ROOM 3	LR	8	14R-F232-E1-P	F42LL	2	29	58		SS	1	W500	
911	0603	MORSE	GYM	1	10	HL	BOYS LOCKER ROOM CUBST	LR	8	14R-F232-E1-P	F42LL	2	29	58		SS	1	W500	
912	0603	MORSE	GYM	1	14	HL	BOYS TEAM ROOM	LR	14	14R-F232-E1-P	F42LL	2	29	58		BRKRS	1	W2000	
913	1233	MURLANDS MS	PE	1	12	HL	BOYS LOCKER	LR	40	14W-F192-E1-W	F41LL	1	29	29		DS	2	W2000	
914	1233	MURLANDS MS	PE	1	10	HL	EQUIPMENT	LR	2	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
915	1233	MURLANDS MS	PE	1	10	HL	EQUIPMENT	LR	2	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
916	1233	MURLANDS MS	PE	1	12	HL	GIRLS LOCKER	LR	50	14W-F192-E1-W	F41LL	1	29	29		SS	2	W2000	
917	1233	MURLANDS MS	PE	1	10	HL	EQUIPMENT	LR	2	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
918	1233	MURLANDS MS	PE	1	10	HL	COACH	LR	2	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
919	1233	MURLANDS MS	PE	1	10	HL	COACH	LR	2	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
920	1233	MURLANDS MS	PE	1	10	HL	ADAPTED PE	LR	2	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
921	1233	MURLANDS MS	PE	1	10	HL	EQUIPMENT	LR	2	14W-F192-E1-W	F41LL	1	29	29		SS	1	W500	
922	1233	MURLANDS MS	PE	1	18	HL	GIRLS LOCKER	LR	2	14W-F232-E1-W	F42LL	2	29	58		SS	2	W2000	
923	1233	MURLANDS MS	PE	1	10	HL	COACH	LR	2	14W-F232-E1-W	F42LL	2	29	58		SS	1	W500	
924	1233	MURLANDS MS	PE	1	10	HL	COACH	LR	2	14W-F232-E1-W	F42LL	2	29	58		SS	1	W500	
925	1233	MURLANDS MS	PE	1	10	HL	COACH LOUNGE	LR	2	14W-F232-E1-W	F42LL	2	29	58		SS	1	W500	
926	1233	MURLANDS MS	PE	1	10	HL	COACH LOUNGE	LR	2	14W-F232-E1-W	F42LL	2	29	58		SS	1	W500	
927	1233	MURLANDS MS	PE	1	18	HL	BOYS LOCKER	LR	27	14W-F232-E1-W	F42LL	2	29	58		SS4	2	D7200	
928	1233	MURLANDS MS	PE	1	18	HL	BOYS LOCKER	LR	27	14W-F232-E1-W	F42LL	2	29	58		SS4	2	W2000	
929	0845	2	PERSHING	PE	1	10	HL	BOYS LOCKER	LR	53	14W-F232-E1-W	F42LL	2	29	58		SS3	2	W2000
930	0845	2	PERSHING	PE	1	10	HL	EQUIPMENT ROOM	LR	8	14S-F192-E1	F41LL	1	29	29		DS	1	W500
931	0845	5	PERSHING	PE	1	10	HL	GIRLS LOCKER	LR	53	14W-F232-E1-W	F42LL	2	29	58		SS3	2	W2000
932	0845	3	PERSHING	PE	1	10	HL	COACH	LR	8	14W-F232-E1-W	F42LL	2	29	58		SS	1	W1000
933	0845	3	PERSHING	PE	1	10	HL	COACH	LR	8	14W-F232-E1-W	F42LL	2	29	58		SS	1	W1000
934	0845	3	PERSHING	PE	1	25	HL	WEIGHT ROOM	LR	3	14W-F232-E1-W	F42LL	2	29	58		SS4	1	D7200
935	0845	10	PERSHING	PE	1	10	HL	WEIGHT STORAGE	LR	4	14W-F232-E1-W	F42LL	2	29	58		SS	1	W500
936	0845	3	PERSHING	PE	1	10	HL	GIRLS LOCKER	LR	8	14W-F232-E1-W	F42LL	2	29	58		SS	1	W1000
937	0845	7	PERSHING	PE	1	10	HL	EQUIPMENT ROOM	LR	4	14S-F192-E1	F41LL	1	29	29		DS	1	W500
938	0115	4	ROOSEVELT MS	PE	1	10	HL	GIRLS SHOWERS-DRESSING AREA NOT USABLE SHOWERS	LR	15	14W-F232-E1-W	F42LL	2	29	58		BRKR		CONT
939	0115	6	ROOSEVELT MS	PE	1	10	HL	BOYS SHOWERS-DRESSING AREA NOT USABLE SHOWERS	LR	10	14W-F232-E1-W	F42LL	2	29	58		BRKR		CONT
940	0115	3	ROOSEVELT MS	PE	1	14	HL	WEIGHT ROOM	LR	24	14W-F232-E1-W	F42LL	2	29	58		DS	2	D7200HL
941	0115	3	ROOSEVELT MS	PE	1	10	HL	GIRLS LOCKER	LR	20	14W-F232-E1-W	F42LL	2	29	58		BRKR	4	W2000HL
942	0115	8	ROOSEVELT MS	PE	1	10	HL	BOYS LOCKER	LR	26	14W-F232-E1-W	F42LL	2	29	58		BRKR	4	W2000HL
943	0115	8	ROOSEVELT MS	PE	1	10	HL	GIRLS COACH OFFICE	LR	4	14W-F232-E1-W	F42LL	2	29	58		SS	1	W500HL
944	0115	9	ROOSEVELT MS	PE	1	10	HL	EQUIPMENT ROOM	LR	3	14W-F232-E1-W	F42LL	2	29	58		DS	1	W500
945	0115	10	ROOSEVELT MS	PE	1	10	HL	BOYS COACH OFFICE	LR	4	14W-F232-E1-W	F42LL	2	29	58		SS	1	W500
946	0115	36	ROOSEVELT MS	PE	1	10	HL	EQUIPMENT ROOM	LR	3	14W-F232-E1-W	F42LL	2	29	58		DS	1	W500
947	1029	37	SERRA HIGH - NON BETA	GYM	1	10	HL	LOCKER ROOM	LR	52	14W-F232-E1-W	F42LL	2	29	58		SS	3	W2000
948	1029	37	SERRA HIGH - NON BETA	GYM	1	10	HL	LOCKER ROOM ENTRY	LR	10	14W-F232-E1-W	F42LL	2	29	58		SS	1	W1000
949	1029	34	SERRA HIGH - NON BETA	GYM	1	10	HL	LOCKER ROOM SHOWERS	LR	10	14W-F232-E1-W	F42LL	2	29	58		SS	1	W2000
950	1029	35	SERRA HIGH - NON BETA	GYM	1	8	HL	COACH	LR	11	14W-F232-E1-W	F42LL	2	29	58		SS	1	W500
951	1029	36	SERRA HIGH - NON BETA	GYM	1	8	HL	WYCKROOM	LR	6	14W-F232-E1-W	F42LL	2	29	58		SS2	2	W500
952	1029	37	SERRA HIGH - NON BETA	GYM	1	10	HL	EQUIPMENT ROOM	LR										

App. D: Occupancy Sensor Field Installation Report: Halls, Locker Rooms, Beta Schools (continued)

Obs	ID	Item	School	BLDG	Floor	Fixture Height	Fixture Mounting Surface	Detailed Area Description	Room Code	PRE QTY	Existing Code (Contractor)	Existing SPC	Lamps Per Fixture	Lamp Watts	Total Watts	Fixture Qty	Exist. Cont.	Sensor Qty	Sensor Type
891	1543	35	STANDLEY MS-BETA	PE	1	12	HL	GIRLS LOCKER NO ACCESS COPIED BOYS	LR	39	14W-F1-32-E1-W	F41LL	1	29	29	39	SS3	3	W200HL
892	1543	36	STANDLEY MS-BETA	PE	1	10	HL	COACH BINS/STORAGE	LR	3	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	WS
893	1543	37	STANDLEY MS-BETA	PE	1	10	HL	COACH BINS/STORAGE	LR	3	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	WS
894	1543	38	STANDLEY MS-BETA	PE	1	10	HL	EQUIPMENT ROOM	LR	2	14W-F1-32-E1-W	F41LL	1	29	29	4	SS	1	WS
895	1543	39	STANDLEY MS-BETA	PE	1	10	HL	EQUIPMENT ROOM	LR	2	14W-F1-32-E1-W	F41LL	1	29	29	4	SS	1	WS
896	1543	35	STANDLEY MS-BETA	PE	1	10	HL	BOYS SHOWER NOT USED DND	LR	11	14W-F1-32-E1-W	F41LL	1	29	29	11			
897	1543	40	STANDLEY MS-BETA	PE	1	10	HL	GIRLS SHOWER NOT USED DND	LR	11	14W-F1-32-E1-W	F41LL	1	29	29	11			
898	0953	3	TAFT	PE	1	10	HL	BOYS LOCKER	LR	28	14W-F2-32-E1-W	F42LL	2	29	58	28	SS2	2	W200
899	0953	4	TAFT	PE	1	10	HL	BOYS SHOWER	LR	19	14W-F2-32-E1-W	F42LL	2	29	58	19	SS2	1	W200
1000	0953	5	TAFT	PE	1	10	HL	COACH	LR	2	14W-F2-32-E1-W	F42LL	2	29	58	4	SS1	1	WS20
1001	0953	6	TAFT	PE	1	10	HL	COACH	LR	2	14W-F2-32-E1-W	F42LL	2	29	58	4	SS1	1	WS20
1002	0953	7	TAFT	PE	1	10	HL	EQUIPMENT	LR	2	14W-F2-32-E1-W	F42LL	2	29	58	2	SS	1	WS
1003	0953	8	TAFT	PE	1	10	HL	ADAPTIVE PE	LR	12	14W-F2-32-E1-W	F42LL	2	29	58	12	SS1	2	DT20
1004	0953	9	TAFT	PE	1	10	HL	EQUIPMENT	LR	2	14W-F2-32-E1-W	F42LL	2	29	58	2	SS	1	WS
1005	0953	10	TAFT	PE	1	10	HL	EQUIPMENT	LR	2	14W-F2-32-E1-W	F42LL	2	29	58	2	SS	1	WS
1006	0953	11	TAFT	PE	1	10	HL	EQUIPMENT	LR	2	14W-F2-32-E1-W	F42LL	2	29	58	2	SS	1	WS
1007	0953	12	TAFT	PE	1	10	HL	EQUIPMENT	LR	2	14W-F2-32-E1-W	F42LL	2	29	58	2	SS	1	WS
1008	0953	13	TAFT	PE	1	10	HL	EQUIPMENT	LR	2	14W-F2-32-E1-W	F42LL	2	29	58	2	SS	1	WS
1009	0953	14	TAFT	PE	1	10	HL	EQUIPMENT	LR	2	14W-F2-32-E1-W	F42LL	2	29	58	2	SS	1	WS
1010	0953	15	TAFT	PE	1	10	HL	EQUIPMENT	LR	2	14W-F2-32-E1-W	F42LL	2	29	58	2	SS	1	WS
1011	1553	24	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	BOYS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1012	1553	25	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1013	1553	26	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1014	1553	27	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1015	1553	28	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1016	1553	29	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1017	1553	30	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1018	1553	31	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1019	1553	32	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1020	1553	33	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1021	1553	34	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1022	1553	35	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1023	1553	36	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1024	1553	37	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1025	1553	38	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1026	1553	39	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1027	1553	40	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1028	1553	41	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1029	1553	42	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1030	1553	43	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1031	1553	44	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1032	1553	45	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1033	1553	46	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1034	1553	47	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1035	1553	48	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1036	1553	49	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1037	1553	50	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1038	1553	51	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1039	1553	52	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1040	1553	53	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1041	1553	54	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1042	1553	55	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1043	1553	56	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1044	1553	57	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1045	1553	58	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1046	1553	59	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1047	1553	60	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1048	1553	61	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1049	1553	62	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1050	1553	63	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1051	1553	64	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1052	1553	65	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1053	1553	66	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1054	1553	67	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1055	1553	68	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1056	1553	69	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1057	1553	70	UNIVERSITY CITY HS-BETA	GYM	1	12	HL	GIRLS LOCKER	LR	4	14W-F2-32-E1-W	F42LL	2	29	58		SS	1	DT200HL
1058	1553	71	UNIVERSITY CITY HS-BETA	GYM															