CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1C

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.) — Date: May 7, 2012

Project Address: VIRGINIA AVENUE PARK, SANTA MONICA, CA 90404 — Climate Zone: CA CLIMATE ZONE 06 — Building GFA: 12,142 — Unconditioned Floor Area

Building Type: ☐ NON RESIDENTIAL ☐ HIGH RISE RESIDENTIAL ☐ HOTEL/MOTEL GUEST ☐ SCHOOLS ☐ RELOCATABLE PUBLIC SCHOOLS ☐ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

Phase of Construction: ☒ NEW CONSTRUCTION ☐ ADDITION ☐ ALTERATION

Method of Compliance: ☐ COMPLETE BUILDING ☐ AREA CATEGORY ☐ TAILORED

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

- I certify that this Certificate of Compliance documentation is accurate and complete.

Name: JACOB CHAN — Signature: Jacob Chan — Date: May 7, 2012

Company: GLUMAC — Address: 617 WEST 7TH STREET, 5TH FLOOR — EA # / CEPE #: — Phone #: (213) 239-8866

City/St/Zip: LOS ANGELES, CA 90017-3830

Principal Lighting Designer's Declaration Statement

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: JACOB CHAN — Signature: Jacob Chan

Company: GLUMAC — Phone #: (213) 239-8866

Address: 617 WEST 7TH STREET, 5TH FLOOR — License # : E13358

City/St/Zip: LOS ANGELES, CA 90017-3830 — Date: May 7, 2012

LIGHTING MANDATORY MEASURES

Indicate location on building plans of Mandatory Measures Not

LIGHTING COMPLIANCE FORMS & WORKSHEET (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

☐	LTG-1C (Pages 1 to 4)	Certificate of Compliance. All pages required on plans for all submittals
☒	LTG-2C	Lighting Controls Credit worksheet
☐	LTG-3C	Indoor Lighting Power Allowance
☐	LTG-4C (Pages 1 to 4)	Tailored method worksheet
☐	LTG-5C (Pages 1 and 2)	Line Voltage Track Lighting Worksheet

2008 Nonresidential Compliance Forms — July 2010

CERTIFICATE OF COMPLIANCE (Part 2 of 4) (CONDITIONED) LTG-1C

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.) — Date: May 7, 2012

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Installation Certificate, LTG-1-INST (Retain a copy and verify form is completed and signed) — Field Inspector ☐

Certificate of Acceptance, LTG-2A (Retain a copy and verify form is completed and signed) — Field Inspector ☐

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power Listed on this Lighting Schedule is for:
☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

☐ The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with 146(a)

☐ Only for Offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with the Exception to 146(a). All portable lighting in excess of 0.2 watts per square foot is totaled below.

A	B	C	D	E		F	G	H
LUMINAIRE (TYPE, LAMPS, BALLASTS)				INSTALLED WATTS				
Name or Item Tag	Complete Luminaire Description (i.e. 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Special Features	Watts per Luminaire (1)	How wattage was determined: CEC Default from NA8	How wattage was determined: According to 130 (d or e)	Number of Luminaires	Installed Watts (D x F)	Field Inspector (2): Pass
DT1	TABLE LAMPS PERMANENT	☐	60	☒	☐	5	300	☐
DT2	SURFACE MOUNTED LINEAR LED	☐	3.4	☒	☐	5	17	☐
DT2A	RECESSED WARM LED 4"	☐	16.8	☒	☐	9	151.2	☐
SF1	SURFACE MOUNTED LINEAR T5	☐		☒	☐	3		☐
PC1	COMPACT FLOU CHANDELIER	☐	26	☒	☐	12	312	☐
RD1	WARM WHITE LED DOWNLIGHT	☐	27	☒	☐	27	729	☐
RD3	WARM WHITE LED DOWNLIGHT	☐	27	☒	☐	13	351	☐
RF2	RECESSED T8 4'X4'	☐	28	☒	☐	5	140	☐
RZ1	RECESSED LINEAR T-5 W ADJUSTABLE LED	☐	96	☒	☐	38	3648	☐
RZ1A	RECESSED LINEAR T-5 W ADJUSTABLE LED	☐	82	☒	☐	5	410	☐
SF1A	SURFACE MOUNTED LINEAR T5	☐	21	☒	☐	4	84	☐
WC1	WALL MOUNTED COMP. FLOURESCENT	☐	42	☐	☐	7	294	☐
WF1	STACK MOUNTED LINEAR T5	☐	28	☐	☐	11	308	☐

INSTALLED WATTS PAGE TOTAL: 6744.2

Building total number of pages: ____

INSTALLED WATTS BUILDING TOTAL (Sum of all pages) Enter into LTG-1C Page 4 of 4: 9231.2

1 Wattage shall be determined according to Section 130(d and e). Wattage shall be rating of light fixture, not rating of bulb.

2 If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1C

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.) — Date: May 7, 2012

CONDITIONED AND UNCONDITIONED SPACE LIGHTING MUST NOT BE COMBINED FOR COMPLIANCE

Indoor Lighting Power Conditioned Spaces		Indoor Lighting Power Unconditioned Spaces	
	Watts		Watts
Installed Lighting (from Conditioned LTG-1C Page 2)	9231.2	Installed Lighting (from Unconditioned LTG-1C Page 2)	0
- Lighting Control Credit (from Conditioned Spaces LTG-2C)	2,398	- Lighting Control Credit (from Unconditioned Spaces LTG-2C)	0
= Adjusted Installed Lighting Power	6,833	= Adjusted Installed Lighting Power	0
Complies if Installed <= Allowed	YES	Complies if Installed <= Allowed	YES
Allowed Lighting Power Conditioned Spaces (from LTG-3C)	8,305	Allowed Lighting Power Unconditioned Spaces (from LTG-3C)	0

REQUIRED ACCEPTANCE TEST

Designer:
This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, **LTG-2A**. The designer is required to check the acceptance tests and list all controls devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. **Forms can be grouped by type of Luminaire controlled.**

Enforcement Agency:
Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The **LTG-2A** form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of 10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the **LTG-2A** for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Equipment Requiring Testing	Luminaires Controlled: Description	Number of Like Controls	Location	LTG-2A: Controls and Sensors and Automatic Daylighting Controls Acceptance
				☐
				☐
				☐
				☐
				☐
				☐
				☐

2008 Nonresidential Compliance Forms — July 2010

INDOOR LIGHTING POWER ALLOWANCE (Area Method Continued) LTG-3-C

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.) — Date: February 28, 2011

ALLOWED LIGHTING POWER (Choose One Method)

A separate LTG-3C must be filled out for Conditioned and Unconditioned Spaces. Indoor Lighting Power Allowances listed or this page are only for: ☒ CONDITIONED Spaces ☐ UNCONDITIONED Spaces

AREA CATEGORY METHOD - CONDITIONED SPACES

A: AREA CATEGORY (From 146 Table 146-F)	B: WATTS PER SF	C: AREA (SF)	D: ALLOWED WATTS
LIBRARY; READING AREAS	1.2	2,991	3,589
LIBRARY; STACKS	1.5	2,610	3,915
OFFICES; > 250 SQUARE FEET	0.9	135	122
SUPPORT; HALLWAY, CORRIDOR	0.6	409	245
SUPPORT; RESTROOMS	0.6	407	244
LOUNGE / RECREATION	1.1	172	189
		TOTALS	6,724 SF Areas / 8,305 WATTS

2008 Nonresidential Compliance Forms — JULY 2010

MANDATORY MEASURES

Project Name: PICO BRANCH LIBRARY (LARGE BLDG.)

☒ §131(d) **BUILDING SHUT-OFF**
THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH, WITH A ZONE FOR EACH FLOOR.

☒ §131(c) **OVERRIDE FOR BUILDING LIGHTING SHUT-OFF**
THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQ. FT.

☒ §131(c) **AUTOMATIC CONTROL DEVICES CERTIFIED:**
ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED.
ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.

☒ §131(c) **FLUORESCENT BALLAST AND LUMINARIES CERTIFIED:**
ALL FLUORESCENT FIXTURES SUBJECT TO CERTIFICATION AND SPECIFIED FOR THE PROJECTS ARE CERTIFIED.

☒ §131(c) **INDIVIDUAL ROOM/AREA CONTROLS:**
EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.

☒ §131(c) **UNIFORM REDUCTION FOR INDIVIDUAL ROOMS:**
ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH MULTI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.

☒ §131(c) **DAYLIT AREA CONTROL:**
ALL ROOMS THAT ARE GREATER THAN 250 SQUARE FEET AND CONTAIN WINDOWS AND SKYLIGHTS, THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LIGHTING POWER IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH; OR THE EFFECTIVE USE OF DAYLIGHT CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF THE YEAR IS INCLUDED ON PLANS.

☐ §131(e) **DISPLAY LIGHTING:**
DISPLAY LIGHTING SHALL BE SEPARETELY SWITCHED ON CIRCUITS THAT ARE 20 AMPS OR LESS.

CERTIFICATE OF COMPLIANCE (Part 1 of 4) OLTG-1C

Project Name: PICO BRANCH LIBRARY - OUTDOOR LIGHTING — Date: May 7, 2012

Project Address: VIRGINIA AVENUE PARK, SANTA MONICA, CA 90404 — Total Hardscape Illuminated Area: 9180

GENERAL INFORMATION

Phase of Construction: ☒ NEW CONSTRUCTION ☐ ADDITION ☐ ALTERATION

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

- I certify that this Certificate of Compliance documentation is accurate and complete.

Name: JACOB CHAN — Signature: Jacob Chan — Date: May 7, 2012

Company: GLUMAC — Address: 617 WEST 7TH STREET, 5TH FLOOR — EA # / CEPE #: — Phone #: (213) 239-8866

City/St/Zip: LOS ANGELES, CA 90017-3830

Principal Lighting Designer's Declaration Statement

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Parts 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: JACOB CHAN — Signature: Jacob Chan

Company: GLUMAC — Phone #: (213) 239-8866

Address: 617 WEST 7TH STREET, 5TH FLOOR — License # : E13358

City/St/Zip: LOS ANGELES, CA 90017-3830 — Date: May 7, 2012

Principal Lighting Designer's Declaration

☒ I certify that this Certificate of Compliance documentation is accurate and complete, and accounts for all outdoor lighting power, including building mounted, pole mounted, as well as all other outdoor lighting designed for the site, and that Additional Lighting Power Allowances for Specific Applications or Additional Lighting Power Allowances for Ordinance Requirements have not been counted more than one time for the same area, in accordance with Section 147 of the Outdoor Lighting Mandatory Measures.
Indicate location on building plans of Mandatory Measures Note Block:

LIGHTING COMPLIANCE FORMS & WORKSHEET (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

☒	OLTG-1C	Certificate of Compliance. All 4 pages required on plans for all submittals
☒	OLTG-2C (Page 1 of 3)	Lighting Wattage Allowances for General Hardscape, Sales Frontage, or Ornamental Lighting. Optional on plans
☐	OLTG-2C (Page 2 of 3)	Lighting Wattage Allowances for Her Application or Her Area. Optional on plans.
☐	OLTG-2C (Page 3 of 3)	Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

2008 Nonresidential Compliance Forms — July 2010

CERTIFICATE OF COMPLIANCE (Part 2 of 4) OLTG-1C

Project Name: PICO BRANCH LIBRARY - OUTDOOR LIGHTING — Date: May 7, 2012

COMPLIANCE FIXTURE / LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

Installation Certificate, OLTG-1-INST (Retain a copy and verify form is completed and signed) — Field Inspector ☐

Certificate of Acceptance, OLTG-2A (Retain a copy and verify form is completed and signed) — Field Inspector ☐

A	B	C	D	E		F	G	H	I
LUMINAIRE (TYPE, LAMPS, BALLASTS)				INSTALLED WATTS					
Name or Item Tag	Luminaire Description (1) See footnote below (i.e.: 1 lamp pole-top shoe-box 400 w att metal halide)	Cutoff Designation	Watts per Luminaire (1)	Special Features	How wattage was determined: Default from NA8	How wattage was determined: According to 130 (d or e)	Number of Luminaires	Installed Watts (D x G)	Field Inspector (2): Pass
JD2	SURFACE MOUNTED UPLIGHT	SEMI	27	☐	☐	☐	16	432	☐
FF1	SURFACE MOUNTED LINEAR T5	FULL	28	☐	☐	☐	10	280	☐
RD2	RECESSED DOWNLIGHT	FULL	10	☐	☐	☐	14	140	☐
RF3	RECESSED T5	FULL	28	☐	☐	☐	7	196	☐

Total # of Pages: 1 — Page Total Installed Watts: 1048

Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts: 1048

1. Type of luminaire (i.e. post top, w all pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp w attage and lamp type (i.e.: fluorescent, incandescent, HID); ballast type (i.e.: electronic or magnetic); number of lamps and number of ballasts per luminaire. For incandescent luminaires, the luminaire w attage listed in column D shall be the maximum relamping rated w attage on a permanent factory-installed label on the luminaire, NOT the w attage of the lamp (bulb) used, in accordance w ith Section 130(d or e).
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

EXEMPT LUMINAIRES — Field Inspector ☐

Name or Symbol	Description of exempt luminaires in accordance w ith Section 147

MANDATORY CONTROLS — Field Inspector ☐

#	Description	Location	#	Description	Location
ALL	TIME CLOCK	ALL EXTERIOR			

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of OLTG-1C)

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

Field Inspection Notes or Descrepancies:

2008 Nonresidential Compliance Forms — July 2010

CERTIFICATE OF COMPLIANCE (Part 3 of 4) OLTG-1C

Project Name: PICO BRANCH LIBRARY - OUTDOOR LIGHTING — Date: May 7, 2012

A. OUTDOOR LIGHTING ZONE

OUTDOOR LIGHTING ZONE: ☐ OLZ 1 ☐ OLZ 2 ☒ OLZ 3 ☐ OLZ 4

Is the Outdoor Lighting Zone: ☒ Default in accordance w ith § 10-114, or ☐ Amended by JHA

Complete the information below if the default Outdoor Lighting Zone has been amended by the local jurisdiction having authority (JHA):

☐ The site is a government designed park, recreation area, w ildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance w ith Table 10-114-A, because the site is contained w ithin such a zone.

☐ The local jurisdiction having authority has officially adopted a change to the State Default Lighting Zone and has notified the Energy Commission by providing the materials required in §10-114(d) to the Executive Director.

☐ The adopted change is posted on the Energy Commission w ebsite

B. ADDITIONAL LIGHTING POWER ALLOWANCE FOR ORDINANCE REQUIREMENTS

Are additional lighting power allowances for ordinance in Table 147-C used? ☐ Yes ☐ No

Complete the information below if additional lighting power allowances for ordinance requirements are used:

☐ The local jurisdiction having authority has officially adopted specific outdoor light levels, w hich are expressed as average or minimum footcandle level, by following a public process that allow ed for formal public notification, review, and comment about the proposed change

☐ The local jurisdiction having authority w hich adopted specific outdoor light levels and has notified the Commission by providing the follow ing materials required 10-114(f) to the Executive Director

C. ACCEPTANCE FORMS

Required Acceptance Tests

Designer:
This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, OLTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form w ill be part of the plans, completion of this section w ill allow the responsible party to budget for the scope of w ork appropriately. Forms can be grouped by type of Luminaire controlled.

Enforcement Agency:
Systems Acceptance. Before Occupancy Permit is granted for a new ly constructed building or space or w hen ever new lighting system w ith controls is installed in the building or space shall be certified as meeting the Acceptance Requirements. The OLTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of 10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the OLTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Certificate of Acceptance

Equipment Requiring Testing	Luminaires Controlled: Description	Number of Like Controls	Locations	OLTG-2A(1): Outdoor Lighting Acceptance Tests

1: Insert: OMS for Outdoor Motion Sensor; OLSC for Outdoor Lighting Shutoff Controls; OP for Outdoor Photocontrol; ATS for Astronomical Time Switch; and , STS for Standard (non-astronomical Time Switch acceptance.

2008 Nonresidential Compliance Forms — July 2010

CERTIFICATE OF COMPLIANCE (Page 4 of 4) OLTG-1C

Project Name: PICO BRANCH LIBRARY - OUTDOOR LIGHTING — Date: May 7, 2012

ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER

		Lighting Wattage Power Allowance
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)	9215.6 Watts
B	Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3)	Watts
C	Specific application wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)	Watts
D	Specific application wattage allowance per application (from OLTG-2C Page 2 of 3)	Watts
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)	Watts
F	Additional lighting power allowance for ordinance requirements (from OLTG-2C Page 3 of 3)	Watts
G	Total Allowed Wattage = Sum of rows A through F:	9215.6 Watts
H	Total Installed Watts (from Luminaire Schedule on OLTG-1C Page 2 of 4)	1048 Watts

Notes:

2008 Nonresidential Compliance Forms

OUTDOOR LIGHTING MANDATORY MEASURES

Project Name: PICO BRANCH LIBRARY - OUTDOOR LIGHTING

☐ §132 **OUTDOOR LIGHTING**
ALL PERMANENTLY INSTALLED OUTDOOR LUMINAIRES EMPLOYING LAMPS RATED OVER 100 WATTS SHALL EITHER: HAVE A LAMP EFFICACY OF AT LEAST 60 LUMENS PER WATT; OR BE CONTROLLED BY A MOTION SENSOR UNLESS EXEMPTED FROM THE 8 POSSIBLE EXCEPTIONS. SEE SECTION 132.

☐ §132(b) **LUMINAIRE CUTOFF REQUIREMENTS**
ALL OUTDOOR LUMINAIRES THAT USE LAMPS RATED GREATER THAN 175 WATTS IN HARDSCAPE AREAS INCLUDING PARKING LOTS, BUILDING ENTRANCES, SALES AND NON-SALES CANOPIES, AND ALL OUTDOOR SALES AREAS SHALL BE DESIGNATED CUTOFF FOR LIGHT DISTRIBUTION.
TO COMPLY WITH THIS REQUIREMENT, THE LUMINAIRE SHALL BE RATED CUTOFF IN A PHOTOMETRIC TEST REPORT THAT INCLUDES ANY TILT OR OTHER NON-LEVEL MOUNTING CONDITION OF THE INSTALLED LUMINAIRE.
CUTOFF IS A LUMINAIRE LIGHT DISTRIBUTION CLASSIFICATION WHERE THE CANDELA PER 1000 LAMP LUMENS DOES NOT NUMERICALLY EXCEED 25 AT OR ABOVE A VERTICAL ANGLE OF 90 DEGREES ABOVE NADIR, AND 100 AT OR ABOVE A VERTICAL ANGLE OF 80 DEGREES ABOVE NADIR.
NADIR IS IN THE DIRECTION OF STRAIGHT DOWN, AS WOULD BE INDICATED BY A PLUMB LINE. 90 DEGREES ABOVE NADIR IS HORIZONTAL. 80 DEGREES ABOVE NADIR IS 10 DEGREES BELOW HORIZONTAL, UNLESS EXEMPTED FROM THE 6 POSSIBLE EXCEPTIONS. SEE SECTION 132(b).

☐ §132(c)2 **CONTROLS FOR OUTDOOR LIGHTING**
ALL PERMANENTLY INSTALLED OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCONTROL OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE UNLESS EXEMPTED FROM THE EXCEPTION. SEE SECTION 132(f)
FOR LIGHTING OF BUILDING FACADES PARKING LOTS SALES AND NON-SALES CANOPIES, ALL OUTDOOR SALES AREAS, AND STUDENT PICK-UP/DROP-OFF ZONES WHERE TWO OR MORE LUMINAIRES ARE USED, AN AUTOMATIC TIME SWITCH SHALL BE INSTALLED THAT IS CAPABLE OF:
(1) TURNING OFF THE LIGHTING WHEN IT IS NOT NEEDED AND
(2) REDUCING THE LIGHTING POWER (IN WATTS) BY AT LEAST 50 PERCENT BUT NOT EXCEEDING 80 PERCENT OR PROVIDING CONTINUOUS DIMMING THROUGH A RANGE THAT INCLUDES 50 PERCENT THROUGH 80 PERCENT REDUCTION UNLESS EXEMPTED FROM THE 6 POSSIBLE EXCEPTIONS.
SEE SECTION 132(C)2. THIS CONTROL SHALL MEET THE REQUIREMENTS OF SECTION 119(C).

08 Nonresidential Compliance Forms — JULY 2010

OUTDOOR LIGHTING WORKSHEET (Page 1 of 3) OLTG-2C

Project Name: PICO BRANCH LIBRARY - OUTDOOR LIGHTING — Date: May 7, 2012

A. LIGHTING POWER ALLOWANCE FOR GENERAL HARDSCAPE

AREA WATTAGE ALLOWANCE (AWA)			LINEAR WATTAGE ALLOWANCE (LWA)			INITIAL WATTAGE ALLOWANCE	TOTAL GENERAL HARDSCAPE LIGHTING ALLOWANCE
A: ILLUMINATED HARDSCAPE AREA	B: AWA PER SQUARE FOOT	C: AWA (AxB)	D: PERIMETER LENGTH OF GENERAL HARDSCAPE	E: LWA PER LINEAR FOOT	F: LWA (DxE)	G: IWA (WATTS)	H: C + F + G
9180	0.92	8445.6				770	9215.6
						Enter total into OLTG-1C; Page 4 of 4; Row A; Lighting Power Allowance for General Hardscape	9215.6

☐ **Yes:** AWA, LWA, and IWA from Table 147-A was used as appropriate for the Outdoor Lighting Zone

B. SPECIFIC APPLICATION LIGHTING WATTAGE ALLOWANCE PER UNIT LENGTH (Available only for sales frontage)

DETERMINE WATTAGE ALLOWANCE				LUMINAIRE TYPE		DESIGN WATTS			
A: SPECIFIC LIGHTING APPLICATION	B: LINEAR FEET OF FRONTAGE	C: SALES FRONTAGE ALLOWANCE FOR OLZ (WATTS PER LF)	D: WATTAGE ALLOWANCE (B x C)	E: NAME OR SYMBOL	F: LUMINAIRE TYPE	G: LUMINAIRE QUANTITY	H: WATTS PER LUMINAIRE	I: DESIGN WATTS (G x H)	J: ALLOWED WATTS MINIMUM OF D or I
						Enter total into OLTG-1C; Page 4 of 4; Row B; Specific Application Lighting Wattage Allowance Per Unit Length:			

C. SPECIFIC APPLICATION WATTAGE ALLOWANCE FOR ORNAMENTAL LIGHTING

DETERMINE WATTAGE ALLOWANCE				LUMINAIRE TYPE		DESIGN WATTS			
A: SPECIFIC LIGHTING APPLICATION	B: SQUARE FEET OF HARDSCAPE	C: ORNAMENTAL LIGHTING ALLOWANCE FOR OLZ (WATTS PER SF)	D: WATTAGE ALLOWANCE (B x C)	E: NAME OR SYMBOL	F: LUMINAIRE TYPE	G: LUMINAIRE QUANTITY	H: WATTS PER LUMINAIRE	I: DESIGN WATTS (G x H)	J: ALLOWED WATTS MINIMUM OF D or I
						Enter total into OLTG-1C; Page 4 of 4; Row C; Specific Application Wattage Allowance for Ornamental Lighting:			

2008 Nonresidential Compliance Forms — March 2010

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

KoningEizenberg Architecture
1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.
1001

ARCHITECT

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REGISTERED PROFESSIONAL ENGINEER JACOB CHAN No. E13358 ELECTRICAL STATE OF CALIFORNIA

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REVIEWED BY: DATE: ____ 20__

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CITY CLIENT

NO.	DATE	BY	DESCRIPTION
3	05/07/12		PLAN CHECK 1
2	03/06/12		ADDENDUM 3
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE
PLAN CHECK CORRECTIONS

DATE:
05/07/2012

DRAWING NO.: **6693**

SHEET TITLE
LARGE BLGD. /OUTDOOR TITLE 24 LIGHTING

SHEET NO.
E0.4

SHEET OF

DWG. NO. -

TITLE OF PROJECT