

OUTDOOR LIGHTING WORKSHEET (Part 2 of 3) OLTG-2C

Project Name: **ROLLING HILLS APARTMENTS** Date: **5/5/2010**

D. SPECIFIC APPLICATION LIGHTING WATTAGE ALLOWANCE PER APPLICATION

DETERMINE WATTAGE ALLOWANCE				DESIGN WATTS				ALLOWANCE	
A	B	C	D	E	F	G	H	I	J
Specific Lighting Application	Number of Applications	Specific Application Allowance (watts)	Wattage Allowance (B X C)	Luminaire Symbol	Luminaire Type	Lumin QTY	Watts Per Luminaire	Design Watts (G X H)	Allowed Watts Minimum of D or I
BUILDING ENTRANCE	6	100	600	A	(1) 26w Compact Fluorescent Triple 4 Pin	2	28.0	56	466
				B	(2) 75w PAR-30	2	150.0	300	
				C	(2) 26w Compact Fluorescent Triple 4 Pin	2	55.0	110	

Enter total into OLTG-1C; Page 4 of 4; Row D; Specific Application Wattage Allowance Per Application: **466**

E. SPECIFIC APPLICATION LIGHTING WATTAGE ALLOWANCE PER AREA

DETERMINE WATTAGE ALLOWANCE				LUMINAIRE TYPE				DESIGN WATTS		ALLOWANCE	
A	B	C	D	E	F	G	H	I	J	K	L
Specific Lighting Application	Illuminated Area of Application	Specific Application Allowance (watts per ft ²)	Wattage Allowance (B X C)	Code for Luminaire Type	Luminaire Type	Lumin QTY	Watts Per Luminaire	Design Watts (G X H)	Allowed Watts Minimum of D or I		

Enter total into OLTG-1C; Page 4 of 4; Row E; Specific Application Lighting Wattage Allowance Per Area: **0**

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

Project Name: **ROLLING HILLS APARTMENTS** Date: **5/5/2010**

A. OUTDOOR LIGHTING ZONE

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

Is the Outdoor Lighting Zone: Default in accordance with §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 designated park, recreational area, wildlife preserve, or portion thereof, and has been designated as LZ2 or LZ3, in accordance with Table 10-114-A, because the site is contained within 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 website.

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, which are expressed as average or minimum footcandle levels, by following a public process that allowed for formal public notification, review, and comment about the proposed change.

The local jurisdiction having authority which adopted specific outdoor light levels and has notified the Commission by providing the following 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 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 cost 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 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 §10-105(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 OLTG-2A

Equipment Requiring Testing	Description	City of Luminaire Controls	Location	Outdoor Lighting Acceptance Tests

1. Insert: OMS for Outdoor Motion Sensor; OLSO for Outdoor Lighting Shut-off Controls; OP for Outdoor Photocontrol; ATS for Astronomical Time Switch; and STS for Standard (non-astronomical) Time Switch acceptance.

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

Project Name: **ROLLING HILLS APARTMENTS** Date: **5/5/2010**

Project Address: **699 LAS TABLAS TEMPLETON, CA 93465** Total Illuminated Area: **0**

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: **William Thoma, PE** Signature: _____

Company: **Thoma Electric** Date: **5/5/2010**

Address: **3502 Empleo** CEA # **10757**

City/State/Zip: **San Luis Obispo, CA 93406** CEPE # **805.543.3850** Phone: **805.543.3850**

Principal Lighting Designer's Declaration Statement

I am eligible under Division 3 of the California Business and Performance 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, Pages 1 and 9 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: **WILLIAM THOMA, PE** Signature: _____

Company: **THOMA ELECTRIC, INC** Phone: **805.543.3850**

Address: **3502 EMPLERO** License # **10757**

City/State/Zip: **SAN LUIS OBISPO, CA 93401** Date: **05-05-2010**

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 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 Standards.

Outdoor Lighting Mandatory Measures

Indicate location on building plans of Mandatory Measures Note Block: **86.0**

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheets 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 (Pages 1 of 3) Lighting Wattage Allowances for General Hardship, Sales Frontage, or Ornamental Lighting. Optional on plans.

OLTG-2C (Pages 2 of 3) Lighting Wattage Allowance for Per Application or Per Area. Optional on plans.

OLTG-2C (Pages 3 of 3) Additional Lighting Power Allowance for Ordinance Requirements. Optional on plans.

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

Project Name: **ROLLING HILLS APARTMENTS** Date: **5/5/2010**

ALLOWED AND INSTALLED OUTDOOR LIGHTING POWER

	Lighting Wattage Power Allowance	Lighting Wattage Power Allowance
A	Lighting power allowance for general hardscape (from OLTG-2C Page 1 of 3)	0
B	Specific application lighting wattage allowance per unit length (from OLTG-2C Page 1 of 3)	0
C	Specific application lighting wattage allowance for ornamental lighting (from OLTG-2C Page 1 of 3)	0
D	Specific application lighting wattage allowance per application (from OLTG-2C Page 2 of 3)	466
E	Specific application lighting wattage allowance per area (from OLTG-2C Page 2 of 3)	0
F	Specific application lighting wattage allowance for ordinance requirements (from OLTG-2C Page 3 of 3)	0
G	Total Allowed Wattage = Sum of rows A through F:	466
H	Total installed watts (from Compliance Fixture Schedule, from OLTG-2C Page 1 of 3)	466

Complies if wattage in row H is less than or equal to the wattages in row G: Yes No

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

Project Name: **ROLLING HILLS APARTMENTS** Date: **5/5/2010**

COMPLIANCE FIXTURE / LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

INSTALLATION CERTIFICATE, OLTG-1INST (Retain a copy and verify form is completed and signed) **Field Inspection**

CERTIFICATE OF ACCEPTANCE, OLTG-2A (Retain a copy and verify form is completed and signed) **Field Inspection**

Luminaire Schedule				Installed Watts				Field Inspector	
A	B	C	D	E	F	G	H	I	J
Name or Item Tag	Luminaire Description ¹ See footnote below	Output Designation	Watts per Luminaire	Special Features	Detail from Table S According to (D or E)	Number of Luminaires	Installed Watts (G X H)	Pass	Fail
A	(1) 26w Compact Fluorescent Triple 4 Pin Elec		28.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	56	<input type="checkbox"/>	<input type="checkbox"/>
B	(2) 75w PAR-30		150.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	300	<input type="checkbox"/>	<input type="checkbox"/>
C	(2) 26w Compact Fluorescent Triple 4 Pin Elec		55.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	110	<input type="checkbox"/>	<input type="checkbox"/>

Enter total into OLTG-1C; Page 4 of 4; Row H; Total Installed Watts: **466**

1. Type of luminaire (i.e., post top, wall pack, surface, shoe box); for non-incandescent luminaires, indicate nominal lamp wattage 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 wattage listed in column D shall be the maximum relamping rated wattage on a permanent factory-installed label on the luminaire. NOT the wattage of the lamp (only) used, in accordance with Section 1030(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 Inspection**

Name or Symbol	Description of exempt luminaires in accordance with §147

MANDATORY CONTROLS **Field Inspection**

#	Description	Location	#	Description	Location
1	AUTOMATIC TIME SWITCH	ELECTRICAL ROOM			

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.

Filed Inspector Notes or Discrepancies:

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PROJECT

ACCESSIBILITY IMPROVEMENTS

ROLLING HILLS APARTMENTS

TEMPLETON, CA

CLIENT JOB # **0708B** ARCHITECT JOB # **0708B**

FRASER SEIPLE ARCHITECTS

PROJECT MANAGER **JT**

DRAWN BY **DM**

DATES **FIRST SUBMITTAL 5/28/10**
PLAN CHECK 1 8/16/10

SIGNED **WILLIAM A. THOMA** REGISTERED PROFESSIONAL ENGINEER NO. 10757 ELECTRICAL STATE OF CALIFORNIA

Thoma ENGINEERING THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St. San Luis Obispo, CA 93406
Phone: (805) 543-3850 Fax: (805) 543-3829 cost@thomaelec.com

EXPIRES: 06/30/11 THOMA #10-8055

The use of these plans and specifications shall be restricted to the original site for which they were prepared and publication thereof is expressly limited to such use. Reproduction or publication by any method, in whole or in part, is prohibited. Title to these plans and specifications remain with the architect without prejudice. Visual contact with these plans and specifications shall constitute prima facie evidence of the acceptance of these restrictions.

Written dimensions on these drawings shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and existing conditions on the job and shall report any discrepancies to the architect for resolution prior to commencing work.

SHEET TITLE **TITLE 24**

SHEET # **E6.1**