

B

Type

Plans

BLD 14-1911

Permit Number

13790

Street Number

WILLIAMS RD

Street Name

GLE

Community Code

054-340-027

APN

COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT
 2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Please Print Your Name: _____ Date Applied: _____

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address: 13790 Williams Rd. City: Glen Ellen ZIP: _____
 Cross-Street: London Ranch Rd. APN: 054-340-027 Project Phone #: () Project Fax #: ()
 Directions: _____ Email address: _____ Unit #: _____ Lot #: _____
 Describe Project: Garage Conversion Living Area: 240 SF Contract Price: \$5,000
 Garage: _____ Decks: _____

OWNER NAME AND ADDRESS

APPLICANT NAME AND ADDRESS

Name: Lorena Reinhardt Name: _____
 Mailing Address: 13790 Williams Rd. Mailing Address: _____
 City: Glen Ellen State: CA ZIP: _____ City: _____ State: _____ ZIP: _____
 Day Ph: () Fax: () Day Ph: () Fax: ()

CONTRACTOR INFORMATION

OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)

Company Name: Shook & Walker Construction Name: Chris Ott
 Address: 7677 Bell Road STE 101 Address: 1668 Scarlet Place
 City: Windsor State: CA ZIP: 95492 City: Santa Rosa State: CA ZIP: 95403
 Day Ph: 707 578-3733 Fax: 707 836-1330 Day Ph: () 576 8145 Fax: () Same

WORKER'S COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:
 I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
 I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier: VANTRED INSURANCE BROKERAGE
 Policy No: 3300061215-141

(This section need not be completed if the permit is for one hundred dollars (\$100) or less.)
 I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Exp. Date: 4/1/15 Applicant: [Signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500).):

- I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for the purpose of sale.)
- I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)
- I am exempt under Sec. _____, B & P.C. for this reason _____

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following website: <http://www.leginfo.ca.gov/calaw.html>.

Date: _____ Signature of Property Owner or Authorized Agent: _____

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Class: B Lic. No.: 577955
 Exp. Date: 9/3/15 Contractor: Shook & Walker Construction

ASBESTOS DECLARATION

Written asbestos notification pursuant to Part 81 of Title 40 of the Code of Federal Regulations is required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that () does () does not contain asbestos, or that () no demolition is authorized by this permit.

I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local Ordinances and State laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making the Certificate of Exemption for the Worker's Compensation provision of the Labor Code I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workman's Compensation law, this permit shall be deemed revoked.

PERMITTEE SIGNATURE: [Signature]
 ADDRESS: 7677 Bell Road STE 101 Windsor 95492
 CITY: _____ ZIP: _____

Contractor Owner Other Licensed Professional

THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT

CONSTRUCTION LENDING DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civ. C.)

Lenders Name: _____
 Lenders Address: _____

FOR DEPARTMENT USE

Zoning: LC, SD, SR File No: _____ Acres: 0.21
 Existing Use/Structures: SFO
 Proposed Use/Structures: convert living space from garage
 Zoning Min. Yard Requirements: Front _____ Left _____ Right _____ Back _____
 NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback unless mitigated. Mitigation Required Address subject to change
 Approval for Permit Issuance: _____ Approval for Occupancy: _____
 By: _____ Date: 7/30/14

Conditions: Sec 26-93-050 allows for reasonable accommodation and eliminate covered parking
Approved by Dean Parsons

Sewer Connection: Available Fees Paid
 Approved by: _____ Date: _____

Road Encroachment: Fees Paid
 Approved by: _____ Date: _____

Septic System Permit/Clearance # _____
 Approved by: _____ Date: _____

Flood Zone: Yes No 100 Year Flood Elevation: _____
 Site Review _____

Drainage Review: _____
 Approved by: _____ Date: _____

Fire: _____
 Approved by: [Signature] Date: _____

Code Enforcement Violation Yes No Violation # _____
 This permit is limited to _____ days.

Work Authorized: convert garage to fam. rm. @ (S) SFO

<input checked="" type="checkbox"/> Plans Approved	<input type="checkbox"/> Post FIRM	<input type="checkbox"/> Alquist Priolo Report Available
<input type="checkbox"/> No Plans Subject to Field Inspection	<input type="checkbox"/> Pre FIRM	<input type="checkbox"/> Geotechnical report Available
Plancheck Cleared By: <u>[Signature]</u> Date: <u>4/30/14</u>	Type of Construction: <u>VB</u>	Occupancy: <u>CB</u>
Permit Cleared for Issuance: <u>[Signature]</u> Date: <u>4-30-14</u>	Auto. Fire Sprinklers Req'd: <u>NO</u>	No. of Units: _____
		Certificate of Occupancy: <u>3</u>

PAYMENT REC'D
 \$ 1,643.57 - HAP
APR 30 2014
 PERMIT AND RESOURCE MANAGEMENT DEPARTMENT
 COUNTY OF SONOMA

JOB ADDRESS: 13790 Williams Rd STE 101 PERMIT NUMBER: RA14.1911 INSPECTION AREA: 6

331) SPECIAL INSPECTION REQUIRED		<input type="checkbox"/> YES	<input type="checkbox"/> NO	IF YES, SEE ADDITIONAL SHEET	
INSPECTION RECORD	DATE	NAME	REMARKS		
101) ROUGH GRADING					
103) FOUNDATION					
FORMS/SETBACK					
FOOTING					
WALLS					
106) UFER GROUND #					
104) CAISSONS/PIERS					
105) SLAB					
107) UNDERGROUND UTILITIES					
110) MASONRY					
109) RETAINING WALLS					
113) FIREPLACE					
FOOTING					
HEARTH/PROTECTION					
THROAT					
114) CHIMNEY					
120) UNDERFLOOR/UNDERSLAB					
115) HYDRONICS					
116) U/F ELECTRICAL					
117) U/F MECHANICAL					
118) U/F PLUMBING					
119) U/F FRAMING					
139) U/F INSULATION					
126) SHEAR WALLS					
<input type="checkbox"/> INTERIOR	<input type="checkbox"/> EXTERIOR				
127) DIAPHRAGMS					
<input type="checkbox"/> ROOF	<input type="checkbox"/> FLOOR				
134) SIDING/SHEATHING					
125) HOLD DOWNS					
132) CLOSE-IN					
122) ROUGH ELECTRICAL	6/11/14	(A)			
123) ROUGH MECHANICAL					
124) ROUGH PLUMBING					
128) ROUGH FRAME					
160) SMOKE DETECTORS					
139) INSULATION	6/11/14	(B)			
142) WALLBOARD	6/19/14	(B)			
143) FIREWALLS					
135) STUCCO/PLASTER					
<input type="checkbox"/> LATH	<input type="checkbox"/> SCRATCH				
137) ROOFING					
130) TUB/SHOWER PAN					
162) FIRE DAMPERS/DOORS					
164) SUSPENDED CEILING					
<input type="checkbox"/> ROUGH ELEC.	<input type="checkbox"/> ROUGH MECH.				
165) EXITING - RAMPS/STAIRS					
163) HANDRAILS/GUARDRAILS					
CORRIDORS/DOORS					
166) ACCESSIBILITY COMPLIANCE					650) SUSMP INSPECTION
144) WATER TANKS					651) NPDES EROSION COMPLIANCE
<input type="checkbox"/> SLAB	<input type="checkbox"/> WALLS				652) NPDES SEDIMENT COMPLIANCE
170) TEMPORARY OCCUPANCY					653) NPDES DOCS/SWPPP
171) TEMPORARY ELECTRICAL					FIRE INSPECTION REQUIRED
172) TEMPORARY GAS					<input type="checkbox"/> Yes <input type="checkbox"/> No
174) ELECTRIC METER AUTHORIZATION					759) KNOX BOX
152) PANEL BOARDS/SERVICE					760) PROPANE TANK HOLD DOWNS
189) SEPTIC ELECTRIC FINAL					770) SPRINKLER FINAL
175) GAS METER AUTHORIZATION					771) ABOVEGROUND HYDROSTATIC
153) GAS PRESSURE TEST	6/19/14	(A)			772) UNDERGROUND HYDROSTATIC
HOUSE					773) UNDERGROUND FLUSH
YARD					774) THRUST BLOCKS
190) MANUF. HOME FOUNDATION					775) PIPE WELD
191) MANUF. HOME INSTALLATION					776) HYDRANTS/APPLIANCES
CONTINUITY					777) PUMP ACCEPTANCE
STAIRS/SKIRTS					778) WATER SUPPLY/TANK
RIDGE BOLTING					779) ALARM SYSTEM
193) MANUF. HOME COND. FINAL					780) HOOD & DUCT SYSTEM
SWIMMING POOLS					781) ABOVEGROUND TANK/DISPENSER
194) PRE-GUNITE					198) FIRE FINAL
195) PRE-DECK					CLEARANCES:
196) PRE-PLASTER/FENCE					FIRE <input type="checkbox"/> Local <input type="checkbox"/> County
197) VINYL/FIBERGLASS POOL EXCAVATION					HEALTH DEPARTMENT
102) GRADING FINAL					ZONING
176) ELECTRICAL FINAL. <i>marked table 9/10/14</i>					SANITATION
177) MECHANICAL FINAL					
178) PLUMBING FINAL. <i>marked table 9/10/14</i>					
199) FINAL. <i>marked table</i>					
OCCUPANCY (OK TO OCCUPY)					PLAN RETENTION REQUIRED?
					<input type="checkbox"/> Yes <input type="checkbox"/> No

PERMIT # B214-111

2013 CALGreen Checklist for Residential Additions and Alterations

BPC-36

This checklist is effective January 1, 2014 and applies to Additions and Alterations of low-rise residential buildings including hotels, motels, lodging houses, dwellings, dormitories, condominiums, shelters, congregate residences, employee housing, factory-built housing and other types of dwellings with sleeping accommodations. Detached "U" occupancy buildings are not subject to the requirements of CALGreen. Existing site and landscaping improvements that are not otherwise disturbed are also not subject to the requirements of CALGreen.

APPENDIX A4

Project Name: Reinhardt Garage Conversion
Project Address: 13790 Williams Rd. Glen Ellen
Project Description: Garage Conversion. Add 240 SF.

INSTRUCTIONS:

- A. For **Owner-Builder permits** – The Owner *or* the Owner's agent shall:
1. Complete the project information above.
 2. Read this checklist and understand the project requirements.
 3. Consult with PRMD Plan Check staff to determine if any mandatory CALGreen measure(s) is not applicable to the project and mark accordingly in **Column 2** of the checklist. Provide an explanation for why each measure to be marked "N/A" is not applicable to the project.
 4. Complete the CALGreen acknowledgement in Section 1 on the last page of the checklist.
 5. Submit the entire form to PRMD along with the building permit application.
- B. For **permits issued to Licensed Contractors** – The Owner *and* the Contractor shall:
1. Be sure that the project information above is completed.
 2. Read this checklist and understand the project requirements.
 3. Consult with Plan Check staff to determine if any mandatory CALGreen measure(s) is not applicable to the project and mark accordingly in **Column 2** of the checklist. Provide an explanation for why each measure to be marked "N/A" is not applicable to the project.
 4. Complete and sign (both Owner and Contractor or their authorized agents) the CALGreen acknowledgement in Section 1 on the last page of the checklist.
 5. Be sure that the entire CALGreen Checklist is submitted to PRMD with the building permit application.
- C. In **Column 3**, PRMD Building Inspection staff will verify those measures checked in **Column 3** of the checklist under the "County Staff" heading.

Sonoma County Permit and Resource Management Department
2550 Ventura Avenue, Santa Rosa, CA 95403-2829 (707) 565-1900 Fax (707) 565-1972

Column 1 Feature or Measure	Column 2 Project Requirements <i>Must be incorporated into project unless measure is not applicable (N/A).</i>	Column 3 Compliance Verified <i>Complete after implementation and prior to final inspection approval</i>
<i>See Chapter 4 of the 2013 California Green Building Code for complete descriptions of features or measures listed here.</i>	Mandatory Prerequisites	Building Inspector
4.1 PLANNING AND DESIGN		
4.106.2 A plan is developed and implemented to manage storm water drainage during construction. See <u>Sonoma County Code Chapter 11A (Stormwater Quality)</u> for additional requirements.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>
4.106.3 Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>
4.2 ENERGY EFFICIENCY		
4.201.1 Building meets or exceeds the requirements of the California Building Energy Efficiency Standards ¹ .	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>
4.3 WATER EFFICIENCY AND CONSERVATION		
4.303.1 Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.4.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>
4.303.2 Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the California Plumbing Code, and shall meet the applicable referenced standards.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>
4.304.1 Automatic irrigation systems installed at the time of final inspection shall be weather- or soil moisture-based.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>
4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY		
4.406.1 Annular spaces around pipes, electric cables, conduits, or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>
4.408.1 Construction waste generated at the site is diverted to recycle or salvage in compliance with at least a 50 percent reduction.	<input checked="" type="checkbox"/> or <input type="checkbox"/> N/A	<input type="checkbox"/>

¹ Provisions of the 2013 Cal Energy Code (CEC) and the 2013 Building Energy Efficiency Standards (BEES) become effective July 1, 2014. From January 30, 2014, the 2010 CEC and 2008 BEES shall be used for Residential and Non-Residential portions of this code for Energy Efficiency, exclusive of Tier 1 requirements.

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements</p> <p align="center"><i>Must be incorporated into project unless measure is not applicable (N/A).</i></p>	<p align="center">Column 3 Compliance Verified</p> <p align="center"><i>Complete after implementation and prior to final inspection approval</i></p>
<p align="center"><i>See Chapter 4 of the 2013 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p align="center">Mandatory Prerequisites</p>	<p align="center">Building Inspector</p>
<p>4.410.1 An operation and maintenance manual shall be provided to the building occupant or owner.</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>
<p>4.5 ENVIRONMENTAL QUALITY</p>		
<p>4.503.1 Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove, meeting the requirements of <u>Sonoma County Code Chapter 7C (Wood-Burning Appliances)</u> ².</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.1 Duct openings and other related air distribution component openings shall be covered during construction.</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.2.2 Paints, stains and other coatings shall be compliant with VOC limits.</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.2.3 Aerosol paints and other coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds.</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.2.4 Documentation shall be provided to verify that compliant VOC limit finish materials have been used.</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.3 Carpet and carpet systems shall be compliant with VOC limits.</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>
<p>4.504.5 Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>
<p>4.505.2 Vapor retarder and capillary break is installed at slab on grade foundations.</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>
<p>4.505.3 Moisture content of building materials used in wall and floor framing is checked before enclosure.</p>	<p align="center"><input checked="" type="checkbox"/> or <input type="checkbox"/> N/A</p>	<p align="center"><input type="checkbox"/></p>

² Modified to conform with Chapter 7C of the Sonoma County Code

<p align="center">Column 1 Feature or Measure</p>	<p align="center">Column 2 Project Requirements</p> <p align="center"><i>Must be incorporated into project unless measure is not applicable (N/A).</i></p>	<p align="center">Column 3 Compliance Verified</p> <p align="center"><i>Complete after implementation and prior to final inspection approval</i></p>
<p align="center"><i>See Chapter 4 of the 2013 California Green Building Code for complete descriptions of features or measures listed here.</i></p>	<p align="center">Mandatory Prerequisites</p>	<p align="center">Building Inspector</p>
<p>4.506.1 Humidity controlled exhaust fans which terminate outside the building are provided in every bathroom unless otherwise a component of a whole house ventilation system.</p>	<p align="center"> <input checked="" type="checkbox"/> or <input type="checkbox"/> N/A </p>	<p align="center"><input type="checkbox"/></p>
<p>4.507.2. Duct systems are sized and designed and equipment is selected using the following methods:</p> <ol style="list-style-type: none"> 1. Establish heat loss and heat gain values according to ANSI/ACCA Manual J-2004 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D - 2009 or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2004 or equivalent. 	<p align="center"> <input checked="" type="checkbox"/> or <input type="checkbox"/> N/A </p>	<p align="center"><input type="checkbox"/></p>
<p>Items necessary to address innovative concepts or local environmental conditions.</p>		
<p>Item 1:</p>		<p align="center"><input type="checkbox"/></p>
<p>Item 2:</p>		<p align="center"><input type="checkbox"/></p>
<p>Item 3:</p>		<p align="center"><input type="checkbox"/></p>
<p>INSTALLER QUALIFICATIONS</p>		<p align="center"><i>Complete prior to Final Inspection</i></p>
<p>702.1 HVAC system installers are trained and certified in the proper installation of HVAC systems.</p>	<p align="center"> <input checked="" type="checkbox"/> or <input type="checkbox"/> N/A </p>	<p align="center"><input type="checkbox"/></p>
<p>703.1 Verification of compliance with CALGreen may include construction documents, plans, specifications builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance. Implementation verification shall be submitted to the Building Department after implementation of all required measures and prior to final inspection approval.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>

Green Building Acknowledgments

Project Address: 13790 Williams Rd. Glen Ellen.
Project Description: Garage Conversion. add 240SF

Section 1 – Design Verification

Complete all lines of Section 1 – “Design Verification” and submit the completed checklist (Columns 1 and 2) with the plans and building permit application to the Building Department.

The owner, design professional **and** the Sonoma approved CALGreen special inspector have reviewed the plans and certify that the items checked above are hereby incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the 2013 California Green Building Standards Code as amended by Chapter 14.10 of the Sonoma Municipal Code.

Owner's Signature

Date

Owner Name (Please Print)



Design Professional's Signature

Chris Ott

Date

4/30/14

Design Professional's Name (Please Print)

Section 2 – Implementation Verification

Complete, sign and submit the completed checklist, including Column 4, together with all original signatures in this Section 2 – “Implementation Verification” to PRMD Building Inspection concurrently with final inspection.

I have inspected the work have received sufficient documentation to verify and certify that the project identified above was constructed in accordance with this Green Building Checklist and in accordance with the requirements set forth in the 2013 California Green Building Standards Code as amended by Chapter 7 of the Sonoma County Code.

Inspector Signature

Date

Inspector's Name (Please Print)

RESIDENTIAL ADDITIONS

CEC- CF-1R ADD (Revised 03/10)



Prescriptive Certificate of Compliance:

CF-1R ADD

Residential Additions

(Page 3 of 8)

Site Address:

13790 Williams Rd, GLE

Enforcement Agency:

Sonoma PRMD

Date:

4/22/14

5. If applicable at this stage enter "NFRC" for NFRC Certified windows or CEC "Default" values found in Table 116-A or B.

RESIDENTIAL ADDITIONS

CEC- CF-1R ADD (Revised 03/10)

CALIFORNIA ENERGY COMMISSION



Prescriptive Certificate of Compliance:		CF-1R ADD
Residential Additions		(Page 4 of 8)
Site Address:	Enforcement Agency:	Date:
13790 Williams Rd. GLE	Sonoma PRMD	4/22/14

ADDITION ALLOWED FENESTRATION AREAS						
	A	B	C	D	E	F
	CFA of Addition ft ²	Allowed % of CFA ²	Allowed Area (A x B)	Area Removed ^{3,4} ft ²	Allowed Area (C + D)	Proposed Area ³ (Table Above)
Total Fenestration Area ^{2,3}						≥
West Fenestration Area ^{1,2,4} (Required In CZ's 2, 4 & 7-15)						≥

1. The Proposed West Fenestration Area includes West-sloping skylight area and any other skylight area with a pitch less than 1:12.
 2. Enter 20% when no West orientation restriction or 15% when West fenestration is being installed in Climate Zones 2, 4, & 7-15.
 3. Fenestration area removed to make way for the addition. For additions less than 1,000 ft² the standards allows glazing removed during the remodel to be added to the glazing area allowance. The maximum allowed glazing area for the addition is CFA x (15% or 20%) + glass removed to make way for the addition.
 4. In climate zones 2, 4, 7-15, no more than 5% of the CFA is allowed for west-facing glazing plus west-facing glass area removed to make way for the addition. The maximum allowed west-facing glazing area is the CFA x 5% + west-facing glass removed to make way for the addition.
 5. To meet energy compliance, the Proposed Area must be less than or equal to the Allowed Area for BOTH the Total and West Fenestration Areas.

ROOFING PRODUCTS (COOL ROOFS) §151(f)12								
Check applicable box below if the roof addition is exempt from the roofing product "Cool Roof" requirements. Note: If any one of the boxes are checked below, the Aged Solar Reflectance and Thermal Emittance requirements for roofing products in §118(f) are not applicable. Do not fill table below.								
<input type="checkbox"/> Roofing compliance <u>Not</u> Required in Climate Zones 1-12, 14, and 16 with a Low-Sloped. Less or 2:12 pitch.								
<input type="checkbox"/> Roofing compliance <u>Not</u> Required in Climate Zones 1 through 9 and 16 with a Steep-Sloped. Roofs pitch greater than 2:12 and product weight less than 5lb/ft ² .								
<input type="checkbox"/> Roofing area covered by building integrated; photovoltaic panels and solar thermal panels are exempt from the above Cool Roof criteria								
<input type="checkbox"/> Roof constructions that have thermal mass over the roof membrane with at least 25 lb/ft ² is exempt from the above Cool Roof criteria.								
Note: If no CRRC-1 label is available, this compliance method cannot be used, use the Performance Approach to show compliance, otherwise, check the applicable box below if Exempt from the Roofing Products "Cool Roof" Requirement:								
CRRC Product ID Number ¹	Roof Slope		Product Weight		Product Type ²	Aged Solar Reflectance ^{3,4}	Thermal Emittance	SRI ⁵
	≤ 2:12	> 2:12	< 5lb/ft ²	≥ 5lb/ft ²				
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> ⁴		

1. The CRRC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at www.coolroofs.org/products/search.php.
 2. Indicate the type of product is being used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.
 3. If the Aged Reflectance is not available in the Cool Roof Rating Council's Rated Product Directory then use the Initial Reflectance value from the same directory and use the equation $(0.2 + 0.7(R_{initial} - 0.2))$ to obtain a calculated aged value. Where $R_{initial}$ is the Initial Solar Reflectance.
 4. Check box if the Aged Reflectance is a calculated value using the equation above.
 5. Calculate the SRI value by using the SRI- Worksheet at <http://www.energy.ca.gov/title24/> and enter the resulting value in the SRI Column above and attach a copy of the SRI- Worksheet to the CF-1R.

RESIDENTIAL ADDITIONS

CEC- CF-1R ADD (Revised 03/10)



Prescriptive Certificate of Compliance: **CF-1R ADD**

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To apply Liquid Field Applied Coatings, the coating must be applied across the entire roof surface and meet the dry mil thickness or coverage recommended by the coatings manufacturer and meet minimum performance requirements listed in §118(i)4. Select the applicable coating:

- | | | |
|--|--|--------------------------------------|
| <input type="checkbox"/> Aluminum-Pigmented Asphalt Roof Coating | <input type="checkbox"/> Cement-Based Roof Coating | <input type="checkbox"/> Other _____ |
|--|--|--------------------------------------|



Prescriptive Certificate of Compliance:		CF-1R ADD
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HVAC SYSTEMS - HEATING					
Heating Equipment Type and Capacity ^{1,2,3}	Minimum Efficiency (AFUE or HSPF)	Distribution Type and Location ⁴	Duct or Piping Insulation R-Value	Thermostat Type	Configuration (Central, Split, Space, Package or Hydronic)
FAU	Existing 90%	Ducts	4.2	Setback	

1. Indicate Heating Type (Central Furnace, Wall Furnace, Heat pump, Boiler, Electric Resistance, etc.)
 2. Electric resistance heating is allowed only in Component Package C, or except where electric heating is supplemental (i.e., if total capacity ≤ 2 KW or 7,000 Btu/hr electric heating is controlled by a time-limiting device not exceeding 30 minutes). See §151(b)3 exception.
 3. Refer to the HERS Verification section on Pages 3 and 4 of the CF-1R-ADD Form for additional requirements and check applicable boxes.
 4. Indicate Type or Location (Ducts, Hydronic in Floor, Radiators, etc.)

HVAC SYSTEMS - COOLING					
Cooling Equipment Type and Capacity ^{1,2}	Minimum Efficiency (SEER/EER or COP)	Distribution Type and Location ³	Duct or Piping Insulation R-Value	Thermostat Type	Configuration (Central, Split, Space, Package or Hydronic)

1. Indicate Cooling Type (A/C, Heat pump, Evap. Cooling, etc.)
 2. Refer to the HERS Verification section on Pages 3 and 4 of the CF-1R-ADD Form for additional requirements and check applicable boxes.
 3. Indicate Type or Location (Ducts, Hydronic in Floor, Radiators, etc.)

WATER HEATING					
List water heaters and boilers for both domestic hot water (DHW) heaters and hydronic space heating. Individual dwelling DHW heaters must be storage gas or propane fired, non-recirculating, and may not exceed 50 gallons. If no natural gas is connected to the building, an electric storage DHW heater less than 50 gallons with an energy factor greater than 0.90 may be used. Hot water pipe insulation from the DHW heater to the kitchen(s) and on all underground hot water pipes is required in all component packages in all climate zones.					
Water Heater Type/Fuel Type ¹	Distribution Type (Standard, Recirculating) ²	Number In System	Tank Capacity (gal)	Energy Factor or Thermal Efficiency	External Tank Insulation R-Value ³
Existing Tankless	Standard	1			

1. Indicate Type (Storage Gas, Heat Pump, Instantaneous, etc.)
 2. Recirculating systems serving multiple dwelling units shall meet the recirculation requirements of §150(n). The Prescriptive requirements do not allow the installation of a recirculating water heating system for single dwelling units.
 3. The water heating tank and pipes shall be insulated to meet the requirements of §150(j).

SPECIAL FEATURES The enforcement agency should pay special attention to the Special Features specified in this checklist below. These items may require written justification and documentation and special verification. Applicable special features shall be marked with a YES and be specified within the plans.

Radiant Barrier (Roof)	
<input type="checkbox"/> YES	<input type="checkbox"/> NO Required in Climate Zones 2, 4, and 8-15 for additions larger than 100 ft ² .
Slab Edge (Perimeter) Insulation	
<input type="checkbox"/> YES	<input type="checkbox"/> NO In Climate Zone 16 under Component Package D, R-7 insulation is required.
Heated Slab Insulation	
<input type="checkbox"/> YES	<input type="checkbox"/> NO Slab edge insulation required for heated slabs in all Climate Zones. See details in Table 118-A of the standards.
Raised Slab Insulation	

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YES NO In Climate Zones 1, 2, 11, 13, 14 & 16 R-8 insulation is required, and in Climate Zones 12 & 15 R-4 insulation is required under Component Package D.

Thermal Mass - To obtain Compliance Credit for the installation of thermal mass, use the Performance Approach.

HERS VERIFICATION SUMMARY - The enforcement agency should pay special attention to the HERS Measures specified in this checklist below. A completed and signed CF-4R Form for all the measures specified shall be submitted to the building inspector before final inspection.

Duct Sealing & Testing *HERS verification is required for this measure.*

YES NO In all Climate Zones, if a new space-conditioning system (HVAC equipment and ducting) is installed to serve the addition alone, the ducts are to be sealed and tested per §151(f)10.

YES NO In Climate Zones 2 and 9-16, if more than 40 linear feet of new or replacement ducts are installed in unconditioned space to serve the addition, the ducts are to be sealed and tested per §152(b)1D. EXCEPTION: Existing duct systems that are extended, which are constructed, insulated or sealed with asbestos.

YES NO In Climate Zones 2 and 9-16, if the existing HVAC equipment is replaced (including replacement of the air handler, outdoor condensing unit of a split system, cooling or heating coil, or the furnace heat exchanger) and will serve the addition, the ducts are to be sealed and tested per §152(b)1E.

YES NO EXCEPTION: Duct systems that are documented to have been previously sealed confirmed through HERS verification in accordance with procedures in the Reference Residential Appendix RA3.
 EXCEPTION: Duct systems with less than 40 linear feet in unconditioned space.
 EXCEPTION: Existing duct systems constructed, insulated or sealed with asbestos.

Refrigerant Charge - Split System *HERS verification is required for this measure.*

YES NO In Climate Zones 2 and 8-15, if a newly ducted split A/C or heat pump is installed to serve the addition alone, a refrigerant charge measurement shall be verified per §151(f)7A.

YES NO In Climate Zones 2 and 8-15, if the existing HVAC equipment is replaced (including replacement of the air handler, outdoor condensing unit of a split system, cooling or heating coil, or the furnace heat exchanger) and will serve the addition, a refrigerant charge measurement shall be verified per §152(b)1F.

Central Fan Integrated Ventilation System - Airflow and Fan Watt Draw - do not apply for additions 1,000 ft² or less.

Ducted Split Systems - Air Conditioners and Heat Pumps: Airflow and Fan Watt Draw *HERS verification is required.*

YES NO In Climate Zones 10 through 15, if a new space-conditioning system (HVAC equipment and ducting) is installed to serve the addition alone, the airflow and fan watt draw shall be verified per §151(f)7B.

YES NO In Climate Zones 10 through 15, if the existing space-conditioning system (HVAC equipment and ducting) is replaced and will serve the addition, the airflow and fan watt draw shall be verified per §152(b)1F.

Documentation Author's Declaration Statement

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

Name: Chris Ott Signature: [Signature]

Company: Christopher's Designs Date: 4/22/14

Address: 1668 Scarlet Place If Applicable CEA or CEPE (Certification #):

City/State/Zip: Santa Rosa, CA 95403 Phone: 707 576-8145

Responsible Building Designer's Declaration Statement

- I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
- I certify that the energy features and performance specifications for the building design identified on this Certificate of Compliance conform to the requirements of Title 24, Parts 1 and 6 of the California Code of Regulations.
- The building design features identified on this Certificate of Compliance are consistent with the information provided to document this building 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: Chris Ott Signature: [Signature]

RESIDENTIAL ADDITIONS

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Company: Christopher's Designs	Date: 4/22/14	
Address: 1668 Scarlet Place	License: _____	
City/State/Zip: Santa Rosa, CA 95403	Phone: 707 576 8145	

For assistance or questions regarding the Energy Standards, contact the Energy Hotline at: 1-800-772-3300.

MANDATORY MEASURES SUMMARY: RESIDENTIAL

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**Mandatory Measures Summary****MF-1R****Residential****(Page 1 of 3)**

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NOTE: Low-rise residential buildings subject to the Standards must comply with all applicable mandatory measures listed, regardless of the compliance approach used. More stringent energy measures listed on the Certificate of Compliance (CF-1R, CF-1R-ADD, or CF-1R-ALT Form) shall supersede the items marked with an asterisk (*) below. This Mandatory Measures Summary shall be incorporated into the permit documents and the applicable features shall be considered by all parties as minimum component performance specifications whether they are shown elsewhere in the documents or in this summary. Submit all applicable sections of the MF-1R Form with plans.

DESCRIPTION**Building Envelope Measures:**

§116(a)1: Doors and windows between conditioned and unconditioned spaces are manufactured to limit air leakage.

§116(a)4: Fenestration products (except field-fabricated windows) have a label listing the certified U-Factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration that meets the requirements of §10-111(a).

§117: Exterior doors and windows are weather-stripped; all joints and penetrations are caulked and sealed.

§118(a): Insulation specified or installed meets Standards for Insulating Material. Indicate type and include on CF-6R Form.

§118(i): The thermal emittance and solar reflectance values of the cool roofing material meets the requirements of §118(i) when the installation of a Cool Roof is specified on the CF-1R Form.

*§150(a): Minimum R-19 insulation in wood-frame ceiling or equivalent U-factor.

§150(b): Loose fill insulation shall conform with manufacturer's installed design labeled R-Value.

*§150(c): Minimum R-13 insulation in wood-frame wall or equivalent U-factor.

*§150(d): Minimum R-13 insulation in raised wood-frame floor or equivalent U-factor.

§150(f): Air retarding wrap is tested, labeled, and installed according to ASTM E1677-95(2000) when specified on the CF-1R Form.

§150(g): Mandatory Vapor barrier installed in Climate Zones 14 or 16.

§150(i): Water absorption rate for slab edge insulation material alone without facings is no greater than 0.3%; water vapor permeance rate is no greater than 2.0 perm/inch and shall be protected from physical damage and UV light deterioration.

Fireplaces, Decorative Gas Appliances and Gas Log Measures:

§150(e)1A: Masonry or factory-built fireplaces have a closable metal or glass door covering the entire opening of the firebox.

§150(e)1B: Masonry or factory-built fireplaces have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper and or a combustion-air control device.

§150(e)2: Continuous burning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the outside of the building, are prohibited.

Space Conditioning, Water Heating and Plumbing System Measures:

§110-§113: HVAC equipment, water heaters, showerheads, faucets and all other regulated appliances are certified by the Energy Commission.

§113(c)5: Water heating recirculation loops serving multiple dwelling units and High-Rise residential occupancies meet the air release valve, backflow prevention, pump isolation valve, and recirculation loop connection requirements of §113(c)5.

§115: Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces, household cooking appliances (appliances with an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt), and pool and spa heaters.

§150(h): Heating and/or cooling loads are calculated in accordance with ASHRAE, SMACNA or ACCA.

§150(i): Heating systems are equipped with thermostats that meet the setback requirements of Section 112(c).

§150(j)1A: Storage gas water heaters rated with an Energy Factor no greater than the federal minimal standard are externally wrapped with insulation having an installed thermal resistance of R-12 or greater.

§150(j)1B: Unfired storage tanks, such as storage tanks or backup tanks for solar water-heating system, or other indirect hot water tanks have R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.

§150(j)2: First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of recirculating sections of hot water pipes are insulated per Standards Table 150-B.

§150(j)2: Cooling system piping (suction, chilled water, or brine lines), and piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A.

§150(j)2: Pipe insulation for steam hydronic heating systems or hot water systems >15 psi, meets the requirements of Standards Table 123-A.

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**Mandatory Measures Summary****MF-1R****Residential****(Page 2 of 3)**

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§150(j)3A: Insulation is protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.

§150(j)3A: Insulation for chilled water piping and refrigerant suction lines includes a vapor retardant or is enclosed entirely in conditioned space.

§150(j)4: Solar water-heating systems and/or collectors are certified by the Solar Rating and Certification Corporation.

Ducts and Fans Measures:

§150(m)1: All air-distribution system ducts and plenums installed, are sealed and insulated to meet the requirements of CMC Sections 601, 602, 603, 604, 605 and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minimum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used

§150(m)1: Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts.

§150(m)2D: Joints and seams of duct systems and their components shall not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.

§150(m)7: Exhaust fan systems have back draft or automatic dampers.

§150(m)8: Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers.

§150(m)9: Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material.

§150(m)10: Flexible ducts cannot have porous inner cores.

§150(o): All dwelling units shall meet the requirements of ANSI/ASHRAE Standard 62.2-2007 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings. Window operation is not a permissible method of providing the Whole Building Ventilation required in Section 4 of that Standard.

Pool and Spa Heating Systems and Equipment Measures:

§114(a): Any pool or spa heating system shall be certified to have: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater; a permanent weatherproof plate or card with operating instructions; and shall not use electric resistance heating or a pilot light.

§114(b)1: Any pool or spa heating equipment shall be installed with at least 36" of pipe between filter and heater, or dedicated suction and return lines, or built-up connections for future solar heating

§114(b)2: Outdoor pools or spas that have a heat pump or gas heater shall have a cover.

§114(b)3: Pools shall have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.

§150(p): Residential pool systems or equipment meet the pump sizing, flow rate, piping, filters, and valve requirements of §150(p).

Residential Lighting Measures:

§150(k)1: High efficacy luminaires or LED Light Engine with Integral Heat Sink has an efficacy that is no lower than the efficacies contained in Table 150-C and is not a low efficacy luminaire as specified by §150(k)2.

§150(k)3: The wattage of permanently installed luminaires shall be determined as specified by §130(d).

§150(k)4: Ballasts for fluorescent lamps rated 13 Watts or greater shall be electronic and shall have an output frequency no less than 20 kHz.

§150(k)5: Permanently installed night lights and night lights integral to a permanently installed luminaire or exhaust fan shall contain only high efficacy lamps meeting the minimum efficacies contained in Table 150-C and shall not contain a line-voltage socket or line-voltage lamp holder; OR shall be rated to consume no more than five watts of power as determined by §130(d), and shall not contain a medium screw-base socket.

§150(k)6: Lighting integral to exhaust fans, in rooms other than kitchens, shall meet the applicable requirements of §150(k).

§150(k)7: All switching devices and controls shall meet the requirements of §150(k)7.

§150(k)8: A minimum of 50 percent of the total rated wattage of permanently installed lighting in kitchens shall be high efficacy.
EXCEPTION: Up to 50 watts for dwelling units less than or equal to 2,500 ft² or 100 watts for dwelling units larger than 2,500 ft² may be exempt from the 50% high efficacy requirement when: all low efficacy luminaires in the kitchen are controlled by a manual on occupant sensor, dimmer, energy management system (EMCS), or a multi-scene programmable control system; and all permanently installed

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**Mandatory Measures Summary****MF-1R****Residential****(Page 3 of 3)**

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luminaries in garages, laundry rooms, closets greater than 70 square feet, and utility rooms are high efficacy and controlled by a manual-on occupant sensor.

§150(k)9: Permanently installed lighting that is internal to cabinets shall use no more than 20 watts of power per linear foot of illuminated cabinet.

§150(k)10: Permanently installed luminaires in bathrooms, attached and detached garages, laundry rooms, closets and utility rooms shall be high efficacy.

EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by a manual-on occupant sensor certified to comply with the applicable requirements of §119.

EXCEPTION 2: Permanently installed low efficacy luminaires in closets less than 70 square feet are not required to be controlled by a manual-on occupant sensor.

§150(k)11: Permanently installed luminaires located in rooms or areas other than in kitchens, bathrooms, garages, laundry rooms, closets, and utility rooms shall be high efficacy luminaires.

EXCEPTION 1: Permanently installed low efficacy luminaires shall be allowed provided they are controlled by either a dimmer switch that complies with the applicable requirements of §119, or by a manual-on occupant sensor that complies with the applicable requirements of §119.

EXCEPTION 2: Lighting in detached storage building less than 1000 square feet located on a residential site is not required to comply with §150(k)11.

§150(k)12: Luminaires recessed into insulated ceilings shall be listed for zero clearance insulation contact (IC) by Underwriters Laboratories or other nationally recognized testing/rating laboratory; and have a label that certifies the luminaire is airtight with air leakage less than 2.0 CFM at 75 Pascals when tested in accordance with ASTM E283; and be sealed with a gasket or caulk between the luminaire housing and ceiling.

§150(k)13: Luminaires providing outdoor lighting, including lighting for private patios in low-rise residential buildings with four or more dwelling units, entrances, balconies, and porches, which are permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy.

EXCEPTION 1: Permanently installed outdoor low efficacy luminaires shall be allowed provided that they are controlled by a manual on/off switch, a motion sensor not having an override or bypass switch that disables the motion sensor, and one of the following controls: a photocontrol not having an override or bypass switch that disables the photocontrol; OR an astronomical time clock not having an override or bypass switch that disables the astronomical time clock; OR an energy management control system (EMCS) not having an override or bypass switch that allows the luminaire to be always on

EXCEPTION 2: Outdoor luminaires used to comply with Exception 1 to §150(k)13 may be controlled by a temporary override switch which bypasses the motion sensing function provided that the motion sensor is automatically reactivated within six hours.

EXCEPTION 3: Permanently installed luminaires in or around swimming pool, water features, or other location subject to Article 680 of the California Electric Code need not be high efficacy luminaires.

§150(k)14: Internally illuminated address signs shall comply with Section 148; OR not contain a screw-base socket, and consume no more than five watts of power as determined according to §130(d).

§150(k)15: Lighting for parking lots and carports with a total of for 8 or more vehicles per site shall comply with the applicable requirements in Sections 130, 132, 134, and 147. Lighting for parking garages for 8 or more vehicles shall comply with the applicable requirements of Sections 130, 131, 134, and 146

§150(k)16: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more dwelling units shall be high efficacy luminaires.

EXCEPTION: Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by an occupant sensor(s) certified to comply with the applicable requirements of §119.