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## GREEN BUILDING INFORMATIONAL HANDOUT

# 2016 CALGreen + Tier 1 Checklist for NEW NON-RESIDENTIAL/COMMERCIAL (AND MAJOR REMODELS OVER 50%)

**Scope:** The provisions of this checklist apply to new commercial space and major remodels for nonresidential buildings without sleeping accommodations. Major remodel includes those redevelopment projects with structural modifications or additions made to a building that are greater than 50% of either: (1) the current square footage of such building; or (2) the current exterior roof structure and exterior walls of such a building.

All other Nonresidential addition and alteration projects should use the CALGreen checklist for Nonresidential Addition and Alterations.

Repairs to existing structures and historic structures are not subject to the requirements of CALGreen, nor are detached "U" occupancy buildings.

**NOTE:** The City of Mill Valley has adopted the Tier 1 provisions of CALGreen as mandatory requirements which must be implemented in the project. Tier 1 Energy Efficiency measures (Section A5.2) are not applicable.

### **Instructions:**

1. The Owner or the Owner's agent may employ a certified Green Building Rater to perform CALGreen services and to verify and assure the Owner and the Building Department that all required work described herein is properly planned and constructed in the project.
2. The Green Building Rater must verify their certification through a green building organization such as Build It Green, LEED, or Cal Green, and provide documentation such as a certificate or license number.

### *Incorporation into Design:*

3. The certified Green Building Rater, in collaboration with the owner and the design professional shall review and incorporate all applicable provisions of **Columns 1 and 2** of this checklist into the project, sign and date the signature page under **Design Verification** at the end of this checklist
4. Include this checklist on the approved set of plans for the project. The Green Building Rater must indicate in **Column 2** of the checklist all applicable measures which must be met and incorporated into the project.

### *Verification Prior to Final Construction:*

5. Review and revise checklists, as needed during construction. Prior to final inspection by the Building Department, certified Green Building Rater shall complete **Column 3** and sign and date signature page under **Final Construction Verification** at the end of this checklist.

<p align="center"><b>Column 1</b> <b>Feature or Measure</b></p>	<p align="center"><b>Column 2</b> <b>Design Requirements</b> <i>When checked, these items become a part of the approved plans and must be installed or incorporated into the project.</i></p>		<p align="center"><b>Column 3</b> <b>Construction Verification</b> <i>Complete prior to final inspection</i></p>
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<p align="center"><b>A5.1</b> <b>PLANNING AND DESIGN</b></p>	<p align="center"><i>All checked items are required</i></p>	<p align="center"><i>Select at least one (1)</i></p>	<p align="center"><i>Select all measures verified as constructed</i></p>
<p><b>SITE SELECTION</b></p>		<p align="center">A5.1</p>	
<p><b>A5.103.1 Community connectivity.</b> Locate project on a previously developed site within a 1/2 mile radius of at least ten basic services, listed in Section A5.103.1.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>A5.103.2 Brownfield or greyfield site redevelopment or infill area development.</b> Select for development a brownfield in accordance with Section A5.103.2.1 or on a greyfield or infill site as defined in Section A5.102.</p> <p><b>A5.103.3.1 Brownfield redevelopment.</b> Develop a site documented as contaminated and fully remediated or on a site defined as a brownfield.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>SITE PRESERVATION</b></p>		<p align="center">A5.1</p>	
<p><b>A5.104.1.1 Local zoning requirement in place.</b> Exceed the zoning's open space requirement for vegetated open space on the site by 25 percent.</p> <p><b>A5.104.1.2 No local zoning requirement in place.</b> Provide vegetated open space area adjacent to the building equal to the building footprint area.</p> <p><b>A5.104.1.3 No open space required in zoning ordinance.</b> Provide vegetated open space equal to 20 percent of the total project site area.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><b>DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES</b></p>		<p align="center">A5.1</p>	
<p><b>A5.105.1.1 Existing building structure.</b> Maintain at least 75 percent of existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing) based on surface area.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Window assemblies and non-structural roofing material.</li> <li>2. Hazardous materials that remediate as a part of the project.</li> <li>3. A project with an addition of more than 2 times the square footage of the existing building.</li> </ol> <p><b>A5.105.1.2 Existing non-structural elements.</b> Reuse existing interior non-structural elements (interior walls, doors, floor coverings and ceiling systems) in at least 50 percent of the area of the completed building (including additions).<b>Exception:</b> A project with an addition of more than 2 times the square footage of the existing building.</p> <p><b>A5.105.1.3 Salvage.</b> Salvage additional items in good condition such as light fixtures, plumbing fixtures, and doors for reuse on this project in an onsite storage area or for salvage in dedicated collection bins. Document the weight or number of the items salvaged.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>SITE DEVELOPMENT</b></p>		<p align="center">A5.1</p>	
<p><b>5.106.1 Storm water pollution prevention plan.</b> Newly constructed projects which disturb land shall prevent the pollution of stormwater runoff from construction activities in accordance with local regulations.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p><b>A5.106.2 Storm water design.</b> Design storm water runoff rate and quantity in conformance with Section A5.106.3.1 and storm water runoff quality by Section A5.106.3.2, or by local requirements, whichever are stricter.</p> <p><b>A5.106.2.1 Storm water runoff rate and quantity.</b> Implement a storm water management plan resulting in no net increase in rate and quantity of storm water runoff from existing to developed conditions. <b>Exception:</b> If the site is already greater than 50 percent impervious, implement a storm water management plan resulting in a 25 percent decrease in rate and quantity.</p> <p><b>A5.106.2.2 Storm water runoff quality.</b> Use post construction treatment control best management practices (BMPs) to mitigate (infiltrate, filter, or treat) storm water runoff from the 85<sup>th</sup> percentile 24-hour runoff event (for volume-based BMPs) or the runoff produced by a rain event equal to two times the 85<sup>th</sup> percentile hourly intensity (for flow-based BMPs).</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><b>A5.106.3 Low impact development (LID).</b> Reduce peak runoff in compliance with Section 5.106. 1. Employ <u>at least two</u> of the following methods or other best management practices to allow rainwater to soak into the ground, evaporate into the air, or collect in storage receptacles for irrigation or other beneficial uses. LID strategies and implementation requirements include, but are not limited to those listed in A5.106.3.</p> <ol style="list-style-type: none"> <li>1. Bioretention (rain gardens);</li> <li>2. Cisterns and rain barrels;</li> <li>3. Green roofs;</li> <li>4. Roof leader disconnection;</li> <li>5. Permeable and porous paving;</li> <li>6. Vegetative swales and filter strips &amp; tree preservation;</li> <li>7. Volume retention suitable for previously developed sites.</li> </ol>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>5.106.4 Bicycle parking.</b> Comply with Sections 5.106.4.1 and 5.106.4.2; or meet local ordinance, whichever is stricter.</p> <p><b>5.106.4.1 Short-term bicycle parking.</b> If the new project is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking being added, with a minimum of one two-bike capacity rack.</p> <p><b>Exception:</b> Additions or alterations adding 9 or less visitor spaces.</p> <p><b>5.106.4.2 Long-term bicycle parking.</b> For buildings with over 10 tenant-occupants or for additions or alterations that add 10 or more tenant vehicular parking spaces, provide secure bicycle parking for 5 percent of tenant occupied motorized vehicle parking spaces being added, with a minimum of one space. Acceptable bicycle parking facilities shall be convenient from the street and shall meet one of the following:</p> <p><input type="checkbox"/> 1. Covered, lockable enclosures with permanently anchored racks for bicycles;</p> <p><input type="checkbox"/> 2. Lockable bicycle rooms with permanently anchored racks; or</p> <p><input type="checkbox"/> 3. Lockable, permanently anchored bicycle lockers.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>A5.106.4.3 Changing rooms.</b> For buildings with over 10 tenant-occupants, provide changing/shower facilities in accordance with Table A5.106.4.3, or document arrangements with nearby facilities.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>A5.106.5.1 Designated parking for fuel-efficient vehicles.</b> Provide designated parking for any combination of low-emitting, fuel-efficient, and carpool/van pool vehicles as shown in Table A5.106.5.1.1 for 10 percent of total spaces. (Tier 1)</p> <p><b>5.106.5.2 Designated parking.</b> In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2.</p> <p><b>5.106.5.1.3 Parking stall marking.</b> Paint the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VANPOOL / EV</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><b>5.106.5.3 Electric vehicle (EV) charging.</b> [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE).</p> <p><input type="checkbox"/> <b>5.106.5.3.1 Single charging space requirements.</b> [N]</p> <p><input type="checkbox"/> <b>5.106.5.3.2 Multiple charging spaces requirements.</b> [N]</p> <p><b>5.106.5.3.3 EV charging space calculation.</b> [N] per Table 5.106.5.3.3 (approx. 6%)</p> <p><b>5.106.5.3.4 Identification.</b> [N]</p> <p><b>5.106.5.3.5 EV spaces count as designated parking.</b> [N]</p> <p><b>A5.106.5.3.1 EV charging space calculation.</b> per Table A5.106.5.3.1 (approx. 8%) [Tier 1].</p> <p><b>A5.106.5.3.3 Identification.</b> The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."</p>	<input checked="" type="checkbox"/>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>A5.106.6 Parking capacity.</b> Design parking capacity to meet but not exceed minimum local zoning requirements.</p> <p><b>A5.106.6.1 Reduce parking capacity.</b> With the approval of the enforcement authority, employ strategies to reduce on-site parking area by</p> <ol style="list-style-type: none"> <li>1. Use of on street parking or compact spaces, illustrated on site plan, or</li> <li>2. Implementation and documentation of programs that encourage occupants to carpool, ride share, or use alternate transportation.</li> </ol>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>A5.106.7 Exterior walls.</b> Meet requirements in the current edition of the California Energy Code and with either A5.106.7.1 or A5.106.7.2 select one of the following for wall surfaces:</p> <p><b>A5.106.7.1 Fenestration.</b> Provide vegetative or man-made shading devices for all fenestration on east-, south- and west-facing walls.</p> <p><b>A5.106.7.1.1 East and west walls.</b> Shading devices shall have 30% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less.</p> <p><b>A5.106.7.1.2 South walls.</b> Shading devices shall have 60% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less.</p> <p><b>A5.106.7.2 Opaque wall areas.</b> Use wall surfacing with SRI 25 (aged), for 75% of opaque wall areas.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><b>5.106.8 Light pollution reduction.</b> Outdoor lighting systems shall be designed and installed to comply with the following:</p> <ol style="list-style-type: none"> <li>1. The minimum requirements of the California Energy Code for Lighting Zone 3 as defined in Chapter 10 of the California Administrative Code; and</li> <li>2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11; and</li> <li>3. Allowable BUG ratings not exceeding those shown in Table 5.106.8</li> </ol> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Luminaires that qualify as exceptions in California Energy Code.</li> <li>2. Emergency lighting.</li> <li>3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code.</li> <li>4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 (Alternate materials, designs and methods of construction).</li> </ol>	<p align="center">☒</p> <p align="center">☒</p> <p align="center">☒</p>		<p align="center">☐</p> <p align="center">☐</p> <p align="center">☐</p>
<p><b>5.106.10 Grading and Paving.</b> Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include those shown in Section 5.106.10 Items 1-5.</p>	<p align="center">☒</p>		<p align="center">☐</p>
<p><b>A5.106.11 Heat island effect.</b> Reduce non-roof heat islands, and roof heat islands as follows:</p> <p><b>A5.106.11.1 Hardscape alternatives.</b> Use <u>one</u> or a combination of strategies 1 through 2 for 50 percent of site hardscape <u>or</u> put 50 percent of parking underground.</p> <ol style="list-style-type: none"> <li>1. Use light colored materials with an initial solar reflectance value of at least .30 as determined in accordance with ASTM Standards E1918 or C1549.</li> <li>2. Use open-grid pavement system or pervious or permeable pavement system.</li> </ol> <p><b>A5.106.11.2 Cool Roof for reduction of heat island effect.</b> Use roofing materials having a minimum 3-year aged solar reflectance and thermal emittance complying with Sections A5.106.11.2.1 and A5.106.11.2.2 or a minimum aged Solar Reflectance Index (SRI)<sup>3</sup> equal to or greater than the values shown in Table A5.106.11.2.2 - Tier 1.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Roof constructions that have a thermal mass over the roof membrane, including areas of vegetated (green) roofs, weighing at least 25 lb/sf.</li> <li>2. Roof area covered by building integrated solar photovoltaic and building integrated solar thermal panels.</li> </ol>	<p align="center">☒</p>	<p align="center">☐</p> <p align="center">☐</p> <p align="center">☐</p>	<p align="center">☐</p> <p align="center">☐</p> <p align="center">☐</p>



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<p><b>5.303.3 Water conserving plumbing fixtures and fittings.</b> Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:</p> <p><b>5.303.3.1 Water closets.</b> The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets. <b>Note:</b> The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.</p> <p><b>5.303.3.2.1 Wall-Mounted Urinals.</b> The effective flush volume of urinals shall not exceed 0.125 gallons per flush.</p> <p><b>5.303.3.2.2 Floor-Mounted Urinals.</b> The effective flush volume of urinals shall not exceed 0.5 gallons per flush.</p> <p><b>5.303.3.3 Showerheads.</b></p> <p><b>5.303.3.3.1 Single showerhead.</b> Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.</p> <p><b>5.303.3.3.2 Multiple showerheads serving one shower.</b> When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. <b>Note:</b> A hand-held shower shall be considered a showerhead.</p>	<p align="center">☒</p> <p align="center">☒</p> <p align="center">☒</p> <p align="center">☒</p> <p align="center">☒</p> <p align="center">☒</p>		<p align="center">☐</p> <p align="center">☐</p> <p align="center">☐</p> <p align="center">☐</p> <p align="center">☐</p> <p align="center">☐</p>



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<p><b>A5.303.3 Appliances and Fixtures – Commercial Application.</b> Appliances and fixtures shall meet all of the following:</p> <ol style="list-style-type: none"> <li>1. Clothes washers shall have a maximum Water Factor (WF) that will reduce the use of water.</li> <li>2. Dishwashers shall meet the criteria in A5.303.3(2)(a) and (b).</li> <li>3. Ice makers shall be air cooled.</li> <li>4. Food steamers shall be connectionless or boilerless and shall consume no more than 2 gallons of water per pan per hour, including condensate water, for batch type steamers, and no more than 5 gallons of water per pan per hour, including condensate water, for cook to order steamers.</li> <li>5. The use and installation of water softeners shall be limited or prohibited by local agencies.</li> <li>6. Combination ovens shall use a maximum of 1.5 gallons of water per hour per pan, including condensate water.</li> <li>7. Commercial pre-rinse spray valves manufactured on or after January 1, 2006 shall function at equal to or less than 1.6 gpm at 60 psi and               <ol style="list-style-type: none"> <li>a. Be capable of cleaning 60 plates in an average time of not more than 30 seconds per plate; and</li> <li>b. Be equipped with an integral automatic shutoff; and</li> <li>c. Operate at static pressure of at least 30 psi when designed for a flow rate of 1.3 gpm or less.</li> </ol> </li> <li>8. Food waste pulping systems shall use no more than 2 gpm of potable water.</li> </ol>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/></p>
<p><b>A5.303.4.1 Nonwater supplied urinals.</b> Nonwater supplied urinals are installed in accordance with the <i>California Plumbing Code</i>, Where approved, Hybrid urinals, as defined in Chapter 2, shall be considered waterless urinals.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>

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<p><b>5.303.3.4 Faucets and fountains.</b> Faucets and fountains shall comply with all of the following:</p> <p><b>5.303.3.4.1 Nonresidential lavatory faucets.</b> Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.</p> <p><b>5.303.3.4.3 Kitchen faucets.</b> Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.</p> <p><b>5.303.3.4.3 Wash fountains.</b> Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi],</p> <p><b>5.303.3.4.4 Metering faucets.</b> Metering faucets shall not deliver more than 0.20 gallons per cycle.</p> <p><b>5.303.3.4.5 Metering faucets for wash fountains.</b> Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60. psi].</p> <p><b>Note:</b> Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.</p>	<input checked="checked" type="checkbox"/>		<input type="checkbox"/>    <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>
<p><b>5.303.4 Commercial kitchen equipment.</b></p> <p><b>5.303.4.1 Food waste disposers.</b> Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.</p> <p><b>5.303.5 Areas of additions or alteration.</b> For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alterations to the building.</p>	<input checked="checked" type="checkbox"/>  <input checked="checked" type="checkbox"/>		<input type="checkbox"/>  <input type="checkbox"/>
<p><b>A5.303.5 Dual plumbing.</b> New buildings and facilities shall be dual plumbed for potable and recycled water systems.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>5.303.6 Standards for plumbing fixtures and fittings.</b> Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.</p>	<input checked="checked" type="checkbox"/>		<input type="checkbox"/>
<p><b>OUTDOOR WATER USE</b></p>		<p>A5.3</p>	
<p><b>5.304.1 Scope.</b> The provisions of Section 5.304 Outdoor Water Use reference the mandatory Model Water Efficiency Landscape Ordinance (MWELo) contained within Chapter 2.7, Division 2, Title 23, <i>California Code of Regulations</i> and with the local Mill Valley Municipal Code.</p>	<input checked="checked" type="checkbox"/>		<input type="checkbox"/>

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<p><b>A5.304.2 Outdoor water use.</b> For new water service not subject to the provisions of Water Code Section 535 (i.e. single-family residential connections), separate meters or submeters are installed for indoor and outdoor potable water use for landscaped areas between 500 square feet and 1,000 square feet.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>5.304.2 Outdoor water use in landscape areas equal to or greater than 500 square feet.</b> When water is used for outdoor irrigation for new construction projects with an aggregate landscape area equal to or greater than 500 square feet requiring a building or landscape permit, plan check or design review, one of the following shall apply:</p> <ol style="list-style-type: none"> <li>1. A local water efficient landscape ordinance that is, based on evidence in the record, at least as effective in conserving water as the updated model ordinance adopted by the Department of Water Resources (DWR) per Government Code Section 65595 (c).</li> <li>2. The DWR Model Water Efficiency Landscape Ordinance (MWELo) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, <i>California Code of Regulations</i>.</li> </ol>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<p><b>5.304.3 Outdoor water use in rehabilitated landscape projects equal to or greater than 2,500 square feet.</b></p> <p>Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check, or design review shall comply with Section 5.304.2, Item 1 or 2.</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<p><b>5.304.4 Outdoor water use in landscape areas of 2,500 square feet or less.</b> Any project with an aggregate landscape area of 2,500 square feet or less may comply with the performance requirements of MWELo or conform to the prescriptive compliance measures contained in MWELo's Appendix D.</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<p><b>5.304.5 Graywater or rainwater use in landscape areas.</b> For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has less than 2,500 square feet of landscape and meets the lot or parcel's landscape water requirement (Estimated Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D Section (5).</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<p><b>A5.304.6 Restoration of areas disturbed by construction.</b> Restore all areas disturbed during construction by planting with local native and/or non-invasive vegetation.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A5.304.7 Previously developed sites.</b> On previously developed or graded sites, restore or protect at least 50percent of the site area with native and/or non-invasive vegetation.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A5.304.8 Graywater irrigation system.</b> Install graywater collection system for onsite subsurface irrigation using graywater.</p>		<input type="checkbox"/>	<input type="checkbox"/>

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<p><b>WATER REUSE</b></p>		<p align="center">A5.3</p>	
<p><b>A5.305.1 Nonpotable water systems.</b> Nonpotable water systems for indoor and outdoor use shall comply with the current edition of the California Plumbing Code.</p> <p><b>A5.305.2 Irrigation systems.</b> Irrigation systems regulated by a local water efficient landscape ordinance or by the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) shall use recycled water.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p align="center"><b>A5.4</b> <b>MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</b></p>			
<p><b>EFFICIENT FRAMING SYSTEMS</b></p>	<p align="center"><i>All checked items are required</i></p>	<p align="center"><i>Select at least one (1)</i></p> <p align="center">A5.4</p>	<p align="center"><i>Select all measures verified as constructed</i></p>
<p><b>A5.404.1 Wood framing.</b> Employ advanced wood framing techniques, or OVE, as permitted by the enforcing agency. See sections AS.404.I.1 and as.404.1.2 for additional requirements.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>MATERIAL SOURCES</b></p>		<p align="center">A5.4</p>	
<p><b>A5.405.1 Regional materials.</b> Select building materials or products for permanent installation on the project that have been harvested or manufactured in California or within 500 miles of the project site, meeting the criteria listed in A5.405.1.</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>A5.405.2 Bio-based materials.</b> Select bio-based building materials per Section A5.405.2.1 or A5.405.2.2.</p> <p><b>A5.405.2.1 Use certified wood products.</b> Certified wood is an important component of green building strategies and the California Building Standards Commission will continue to develop a standard through the next code cycle.</p> <p><b>A5.405.2.2 Rapidly renewable materials.</b> Use materials made from plants harvested within a ten-year cycle for at least 2.5 percent of total materials value, based on estimated cost.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>A5.405.3 Reused materials.</b> Use salvaged, refurbished, refinished, or reused materials for at least 5 percent of the total value, based on estimated cost of materials on the project. <i>[See CalRecycle for recycled content levels for some materials <a href="http://www.calrecycle.ca.gov/greenbuilding/materials/matrix.htm">http://www.calrecycle.ca.gov/greenbuilding/materials/matrix.htm</a> ]</i></p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>

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<p><b>A5.405.4 Recycled content.</b> Use materials, equivalent in performance to virgin materials, with a total (combined) recycled content value (RVC) of not be less than 10 percent of the total material cost of the project or use two products which meet the minimum recycled content levels in Table A5.405.4 for at least 75%, by cost, of all products in that category in the project Provide documentation as the respective values.</p> <p><b>Note:</b> Use the equations in the subsections for calculating total materials cost, recycled content, RCV of materials and assemblies, and total RCV.</p>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<p><b>A5.405.5 Cement and concrete.</b> Use cement and concrete made with recycled products and complying with the following sections:</p> <p><b>A5.405.5.1 Cement.</b> Cement shall comply with one of the following standards:</p> <ol style="list-style-type: none"> <li>1. Portland Cement shall meet ASTM C 150.</li> <li>2. Blended Cement shall meet ASTM C595.</li> <li>3. Other Hydraulic Cements shall meet ASTM C1157.</li> </ol> <p><b>A5.405.5.2 Concrete.</b> Unless otherwise directed by the engineer, use concrete manufactured with cementitious materials in accordance with Sections A5.405.5.2.1 and A5.405.5.2.1.1, as approved by the enforcing agency.</p> <p><b>A5.405.5.2.1 Supplementary cementitious materials (SCMs).</b> Use concrete made with one or more of the SCMs listed in Section A5.405.5.2.1</p> <p><b>A5.405.5.2.1.1 Mix design equation.</b> Use any combination of one or more SCMs, satisfying Equation A5.4-14.</p> <p><b>Exception:</b> Minimums for concrete products requiring high early strength may be lower as directed by the engineer.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>A5.405.5.3 Additional means of compliance.</b> Any of the following measures may be employed for the production of cement or concrete, depending on their availability and suitability, in conjunction with A5.405.5.2.</p> <p><b>A5.405.5.3.1 Cement.</b> The following measures may be used in the manufacture of cement.</p> <p><b>A5.405.5.3.1.1 Alternative fuels.</b> Where permitted by state or local air quality standards.</p> <p><b>A5.405.5.3.1.2 Alternative power.</b> Alternate electric power generated at the cement plant and/or green power purchased from the utility meeting the requirements of A5.211.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><b>A5.405.5.3.2 Concrete.</b> The following measures may be used in the manufacture of concrete,</p> <p><b>A5.405.5.3.2.1 Alternative energy.</b> Renewable or alternative energy meeting the requirements of Section A5.211.</p> <p><b>A5.405.5.3.2.2 Recycled aggregates.</b> Concrete made with one or more of the materials listed in Section A5.405.5.3.2.2.</p> <p><b>A5.405.5.3.2.3 Mixing water.</b> Water recycled by the local water purveyor or water reclaimed from manufacturing processes and conforming to ASTM C1602.</p> <p><b>A5.405.5.3.2.4 High strength Concrete.</b> Concrete elements designed to reduce their total size compared to standard 3,000 psi concrete, as approved by the Engineer of Record.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>ENHANCED DURABILITY AND REDUCED MAINTENANCE</b></p>		<p align="center">A5.4</p>	
<p><b>A5.406.1.1 Service life.</b> Select materials for longevity and minimal deterioration under conditions of use.</p> <p><b>A5.406.1.2 Reduced maintenance.</b> Select materials that require little, if any, finishing.</p> <p><b>A5.406.1.3 Recyclability.</b> Select materials that can be re-used or recycled at the end of their service life.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>WEATHER RESISTANCE AND MOISTURE MANAGEMENT</b></p>		<p align="center">A5.4</p>	
<p><b>5.407.1 Weather protection.</b> Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1403.2 and California Energy Code Section 150, manufacturer's installation instructions, or local ordinance, whichever is more stringent.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p><b>5.407.2 Moisture control.</b> Employ moisture control measures by the following methods;</p> <p><b>5.407.2.1 Sprinklers.</b> Prevent irrigation spray on structures.</p> <p><b>5.407.2.2 Entries and openings.</b> Design exterior entries and openings to prevent water intrusion into buildings.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING</b></p>		<p align="center">A5.4</p>	

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<p><b>5.408.1.1 Construction waste management plan.</b> Establish a construction waste management plan that complies with Items 1 through 4 of section 5.408.1.1.</p> <p><b>5.408.1.2 Waste management company.</b> Utilize a waste management company that can provide verifiable documentation that the percentage of construction waste material diverted from the landfill complies with this section.</p> <p><b>Exceptions to Sections 5.408.1.1 and 5.408.1.2:</b></p> <ol style="list-style-type: none"> <li>1. Excavated soil and land-clearing debris</li> <li>2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.</li> <li>3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.</li> </ol> <p><b>5.408.1.4 Documentation.</b> Provide documentation of the waste management plan that meets the requirements listed in Sections 5.408.1.1 through 5.408.1.3, and the plan is accessible to the enforcement authority.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>5.408.3 Excavated soil and land clearing debris.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled.</p> <p><b>Exception:</b> Reuse, either on-or off-site of vegetation or soil contaminated by disease or vest infestation.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p><b>A5.408.3.1 Enhanced Construction waste.</b> Divert to recycle or salvage at least 65% of nonhazardous construction and demolition waste generated at the site. Any mixed recyclables that are sent to mixed-waste recycling facilities shall include a qualified third party verified facility average diversion rate. Verification of diversion rates shall meet minimum certification eligibility guidelines, acceptable to the local enforcing agency. (Tier 1)</p> <p><b>A5.408.3.1.2 Verification of compliance.</b> A copy of the completed waste management report shall be provided to the Building Department.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Excavated soil and land-clearing debris.</li> <li>2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.</li> <li>3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.</li> </ol>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><b>LIFE CYCLE ASSESSMENT</b></p>		<p align="center">A5.4</p>	
<p><b>A5.409.1 General.</b> Life cycle assessment shall be ISO 14044 compliant. The service life of the building and materials assemblies shall not be less than 60 years.</p> <p><b>A5.409.2 Whole building life cycle assessment.</b> Conduct a whole building life assessment, including operating energy, showing that the building project achieves at least a 10 percent improvement for at least three of the impacts listed in Section A5.409.2.2, one of which shall be climate change, compared to a reference building.</p> <p><b>A5.409.3 Materials and system assemblies.</b> If whole building analysis of the project is not elected, select a minimum of 50% of materials or assemblies based on life cycle assessment of at least three for the impacts listed in Section A5.409.2.2, one of which shall be climate change.</p> <p><b>A5.409.4 Substitution for prescriptive standards.</b> Performance of a life cycle assessment completed in accordance with Section A5.409.2 may be substituted for other prescriptive provisions of Division A5.4, including those made mandatory through local adoption of Tier 1 or Tier 2 in Division A5.6.</p> <p><b>A5.409.5 Verification of compliance.</b> Documentation of compliance shall be provided pursuant to the requirements of A5.409.5.</p> <p align="center"><i>See notes in A5.409.2.1 and A5.409.2.2 for calculation tools.</i></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>BUILDING MAINTENANCE AND OPERATION</b></p>		<p align="center">A5.4</p>	
<p><b>5.410.1 Recycling by occupants.</b> Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>



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<p><b>5.410.2 Commissioning.</b> For new buildings 10,000 square feet and over, building commissioning for all building systems covered by T24, Part 6, process systems, and renewable energy systems shall be included in the design and construction processes of the building project. All occupancies other than I-occupancies and L-occupancies shall comply with the California Energy Code as prescribed in California Energy Code Section 120.8. For I-occupancies which are not regulated by OSHPD or for I-occupancies and L-occupancies which are not regulated by the California Energy Code Section 100.0 Scope; all requirements in sections 5.410.2 through 5.410.2.6 shall apply. Commissioning requirements shall include items listed in 5.410.2.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Dry storage warehouses of any size</li> <li>2. Areas under 10,000 square feet used for offices or other conditioned accessory spaces within dry storage warehouses</li> <li>3. Tenant improvements under 10,000 square feet as described in Section 303.1.1.</li> <li>4. {Effective 7/1/2014} Commissioning requirements for energy systems covered by the California Energy Code.</li> </ol> <p><b>5.410.2.1 Owner’s Project Requirements (OPR).</b> Documented before the design phase of the project begins the OPR shall include items listed in 5.410.2.1<sup>1</sup>.</p> <p><b>5.410.2.2 Basis of Design (BOD).</b> A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project to cover the systems listed in 5.410.2.2<sup>4</sup>.</p> <p><b>5.410.2.3 Commissioning plan.</b> A commissioning plan describing how the project will be commissioned shall include items listed in 5.410.2.3.</p> <p><b>5.410.2.4 Functional performance testing</b> shall demonstrate the correct installation and operation of each component, system, and system-to-system interface per approved plans and specifications.</p> <p><b>5.410.2.5 Documentation and training.</b> A Systems Manual and Systems Operations Training are required.</p> <p><b>5.410.2.5.1 Systems manual.</b> The Systems Manual shall be delivered to the building owner or representative and the facilities operator and shall include the items listed in 5.410.2.5.1.</p> <p><b>5.410.2.5.2 Systems operations training.</b> A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and shall include items listed in 5.410.2.5.2.</p> <p><b>5.410.2.6 Commissioning report.</b> A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or owner’s representative.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><b>5.410.4 Testing, adjusting and balancing.</b> Testing, adjusting and balancing of systems shall be required for new buildings less than 10,000 square feet.</p> <p><b>5.410.4.2 Systems.</b> Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include, as applicable to the project, the following:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> HVAC systems and controls.</li> <li><input type="checkbox"/> Indoor and outdoor lighting and controls.</li> <li><input type="checkbox"/> Water heating systems.</li> <li><input type="checkbox"/> Renewable energy systems.</li> <li><input type="checkbox"/> Landscape irrigation systems.</li> <li><input type="checkbox"/> Water reuse systems.</li> </ul> <p><b>5.410.4.3 Procedures.</b> Perform testing and adjusting procedures in accordance with applicable standards on each system as determined by the enforcing agency.</p> <p><b>5.410.4.3.1 HVAC balancing.</b> Before a new space-conditioning system serving a building or space is operated for normal use, the system should be balanced in accordance with the procedures defined by national standards listed in 5.410.4.3.1.</p> <p><b>5.410.4.4 Reporting.</b> After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.</p> <p><b>5.410.4.5 Operation and maintenance manual.</b> Provide the building owner with detailed operating and maintenance instructions and copies of guaranties/warranties for each system prior to final inspection.</p> <p><b>5.410.4.5.1 Inspections and reports.</b> Include a copy of all inspection verification and reports to the enforcing agency.</p>	<p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p align="center"><b>A5.5</b> <b>ENVIRONMENTAL QUALITY</b></p>	<p align="center"><i>All checked items are required</i></p>	<p align="center"><i>Select at least one (1)</i></p>	<p align="center"><i>Select all measures verified as constructed</i></p>
<p><b>FIREPLACES</b></p>		<p align="center">A5.5</p>	
<p><b>5.503.1.</b> Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove meeting the requirements of Mill Valley Municipal Code Section 14.20.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>

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<p><i>See Chapter 5 and Appendix A5 of the 2016 California Green Building Code for complete descriptions of features or measures listed here. Checklist may be submitted by certified Green Building Rater only.</i></p>	<p align="center"><b>Mandatory &amp; Tier 1 Prerequisites</b></p>	<p align="center"><b>Tier 1 Elective Measures</b></p>	<p align="center"><b>Verification of Construction</b></p>
<p><b>POLLUTANT CONTROL</b></p>		<p align="center">A5.5</p>	
<p><b>A5.504.1 Indoor air quality (IAQ) during construction.</b> Maintain IAQ as provided in Sections A5.504.1.1 and A5.504.1.2.</p> <p><b>A5.504.1.1 Temporary ventilation.</b> Provide temporary ventilation during construction in accordance with Section 121 of the California Energy Code, CCR, Title 24, Part 6, and Chapter 4 of CCR, Title 8, and as listed in Items 1 and 2 in section A5.504.1.1.</p> <p><b>A5.504.1.2 Additional IAQ measures.</b> Employ additional measures as listed in Items 1 through 5 in A5.504.1.2:</p> <p><b>5.504.1.3 Temporary ventilation.</b> If the HV AC system is used during construction, use return air filters with a MERV of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>A5.504.2 IAQ post-construction.</b> Flush out the building per Section A5.504.2 prior to occupancy or if the building is occupied.</p> <p><b>A5.504.2.1 IAQ Testing.</b> A testing alternative may be employed after all interior finishes have been installed, using testing protocols recognized by the United States Environmental Protection Agency (U.S. EPA) and in accordance with Section A5.504.2.1.2. Retest as required in Section A5.504.2.1.3.</p> <p><b>A5.504.2.1.1 Maximum levels of contaminants.</b> Allowable levels of contaminant concentrations measured by testing shall not exceed the following:</p> <ol style="list-style-type: none"> <li>1. Carbon Monoxide (CO): 9 parts per million, not to exceed outdoor levels by 2 parts per million;</li> <li>2. Formaldehyde: 27 parts per billion;</li> <li>3. Particulates (PM10): 50 micrograms per cubic meter;</li> <li>4. 4-Phenylcyclohexene (4-PCH): 6.5 micrograms per cubic meter;</li> <li>5. Total Volatile Organic Compounds (TVOC): 300 micrograms per cubic meter.</li> </ol> <p><b>A5.504.2.1.2 Test protocols.</b> Testing of indoor air quality should include the elements listed in Items 1 through 4 of section A5.504.2.1.2.</p> <p><b>A5.504.2.1.3 Noncomplying building areas.</b> For each sampling area of the building exceeding the maximum concentrations of contaminant's specified in Section A5.504.2.1.1, flush out with outside air and retest samples taken from the same area. Repeat the procedures until testing demonstrates compliance</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center">As applicable <input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center">As applicable <input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><b>5.504.3 Covering of duct openings and protection of mechanical equipment during construction.</b> At the time of rough installation and during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system. system.</p>	☒		☐
<p><b>5.504.4 Finish material pollutant control.</b> Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.</p> <p><b>5.504.4.1 Adhesives, sealants, caulks.</b> Adhesives and sealants used on the project shall meet the requirements of the following standards.</p> <p>1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2.</p> <p>2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.</p>	☒  ☒  ☒		☐  ☐  ☐
<p><b>5.504.4.3 Paints and coatings.</b> Architectural paints and coatings shall comply with Table 5.504.4.3.</p> <p><b>5.504.4.3.1 Aerosol Paints and Coatings.</b> Aerosol paints and coatings shall meet the Product-Weighted MIR Limits for ROC in section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances (CCR, Title 17, Section 94520 et seq).</p> <p><b>5.504.4.3.2 Verification.</b> Verification of compliance with this section shall be provided as requested by the enforcing agency.</p>	☒  ☒  ☒		☐  ☐  ☐
<p><b>5.504.4.4 Carpet systems.</b> All carpet installed in the building interior shall meet the testing and product requirements of one of the standards listed in 5.504.4.4.</p> <p><b>5.504.4.4.1 Carpet cushion.</b> All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.</p> <p><b>5.504.4.4.2 Carpet adhesive.</b> All carpet adhesive shall meet the requirements of Table 5.504.4.1.</p>	☒  ☒  ☒		☐  ☐  ☐





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<p><b>A5.504.5.3.1 Filters.</b> In mechanically ventilated buildings, provide regularly occupied areas of the building with air infiltration media for outside and return air prior to occupancy that provides at least a MERV of 11. (Tier 1).</p>		<p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p>
<p><b>5.504.7 Environmental tobacco smoke (ETS) control.</b> <u>Where outdoor areas are provided for smoking</u>, prohibit smoking (<i>by posting no smoking signage</i>) within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations, or policies of any city or county, whichever are more stringent. See Mill Valley Municipal Code 7.20.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p align="center"><b>INDOOR MOISTURE AND RADON CONTROL</b></p>		<p align="center">A5.5</p>	
<p><b>5.505.1 Indoor moisture control.</b> Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1203 and Chapter 14.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p align="center"><b>AIR QUALITY AND EXHAUST</b></p>		<p align="center">A5.5</p>	
<p><b>5.506.1 Outside air delivery.</b> For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 121 of the California Energy Code and Chapter 4 of CCR, Title 8, or the applicable local code, whichever is more stringent.</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p><b>5.506.2 Carbon dioxide (CO<sub>2</sub>) monitoring.</b> For buildings equipped with demand control ventilation, CO<sub>2</sub> sensors and ventilation controls shall be specified and installed in accordance with the requirements of the latest edition of the California Energy Code, CCR, Section 120(c)(4).</p>	<p align="center"><input checked="" type="checkbox"/></p>		<p align="center"><input type="checkbox"/></p>
<p align="center"><b>ENVIRONMENTAL COMFORT</b></p>		<p align="center">A5.5</p>	
<p><b>A5.507.1 Lighting and thermal comfort controls.</b> Provide controls in the workplace as described in Sections A5.507.1.1 and A5.507.1.2.</p> <p><b>A5.507.1.1 Single-occupant spaces.</b> Provide individual controls that meet energy use requirements in the California Energy Code by Sections A5.507.1.1.1 and A5.507.1.1.2.</p> <p><b>A5.507.1.1.1 Lighting.</b> Provide individual task lighting and/or daylighting controls for at least 90 percent of the building occupants.</p> <p><b>A5.507.1.1.2 Thermal comfort.</b> Provide individual thermal comfort controls for at least 50 percent of the building occupants by Items 1 and 2 in A5.507.1.1.2.</p> <p><b>A5.507.1.2 Multi-occupant spaces.</b> Provide lighting and thermal comfort system controls for all shared multi-occupant spaces.</p>		<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>

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<p><b>A5.507.2 Daylight.</b> Provide daylight spaces as required for toplighting and sidelighting in the California Energy Code. In constructing a design, consider Items 1 through 4 in A5.507.3.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A5.507.3 Views.</b> Achieve direct line of sight to the outdoor environment via vision glazing between 2'-6" and 7'-6" above finish floor for building occupants in 90 percent of all regularly occupied areas.</p> <p><b>A5.507.3.1 Interior office spaces.</b> Entire areas of interior office spaces may be included in the calculation if at least 75percent of each area has direct line of sight to perimeter vision glazing.</p> <p><b>A5.507.3.2 Multi-occupant spaces.</b> Include in the calculation the square footage with direct line of sight to perimeter vision glazing.</p>		<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>	<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>
<p><b>5.507.4 Acoustical control.</b> Employ building assemblies and components with STC values determined in accordance with ASTM E 90 and ASTM E 413 or OITC determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.</p> <p><b>5.507.4.1 Exterior noise transmission, Prescriptive Method.</b> Wall and floor-ceiling assemblies exposed to the noise source making up the building envelope shall have exterior wall and roof-ceiling assemblies meeting a composite STC rating of at least 50 or a composite OITC rating of no less than 40 with exterior windows of a minimum STC of 40 or OITC of 30 in the locations described in Items 1 and 2 in section 5.507.4.1.</p> <p><b>5.507.4.1.1 Noise exposure where noise contours are not readily available.</b> Buildings exposed to a noise level of 65 dB <math>L_{eq-1Hr}</math> during any hour of operation shall have exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC or rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).</p> <p>or</p> <p><b>5.507.4.2 Exterior noise transmission, Performance Method.</b> For buildings located as defined in Sections 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies making up the building envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (<math>L_{eq-1Hr}</math>) of 50 dBA in occupied areas during any hour of operation.</p> <p><b>5.507.4.2.1 Site features.</b> Exterior features such as sound walls or earth berms may be utilized as appropriate to the project to mitigate sound migration to the interior.</p> <p><b>5.507.4.2.2 Documentation of compliance.</b> An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.</p> <p><b>5.507.4.3 Interior sound.</b> Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.</p>	<input checked="" type="checkbox"/> <i>Choose either Prescriptive or Performance method</i> <input checked="" type="checkbox"/>  <input checked="" type="checkbox"/>  or <input checked="" type="checkbox"/>  <input checked="" type="checkbox"/>  <input checked="" type="checkbox"/>  <input checked="" type="checkbox"/>		<input type="checkbox"/> <i>Verify either Prescriptive or Performance method</i> <input type="checkbox"/>  <input type="checkbox"/>  or <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>



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<p><b>OUTDOOR AIR QUALITY</b></p>		<p align="center">A5.5</p>	
<p><b>5.508.1 Ozone depletion and global warming reductions.</b> Installations of HVAC, refrigeration, and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.</p> <p><b>5.508.1.1 CFCs.</b> Install HVAC and refrigeration equipment that does not contain CFCs.</p> <p><b>5.508.1.2 Halons.</b> Install fire suppression equipment that does not contain Halons.</p> <p><b>A5.508.1.3 Hydrochlorofluorocarbons (HCFCs).</b> Install HVAC and refrigeration equipment that does not contain HCFCs.</p> <p><b>A5.508.1.4 Hydrofluorocarbons (HFCs).</b> Install HVAC complying with either of the following:</p> <ol style="list-style-type: none"> <li>1. Install HVAC, refrigeration and fire suppression equipment that do not contain HFCs or that do not contain HFCs with a global warming potential greater than 150.</li> <li>2. Install HVAC and refrigeration equipment that limit the use of HFC refrigerant through the use of a secondary heat transfer fluid with a global warming potential no greater than 1.</li> </ol>	<p>As applicable</p> <p align="center"><input checked="" type="checkbox"/></p> <p align="center"><input checked="" type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>	<p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p> <p align="center"><input type="checkbox"/></p>
<p><b>5.508.2 Supermarket refrigerant leak reduction.</b> New commercial refrigeration systems shall comply with the provisions of section 5.508.2 when installed in retail food stores 8,000 square feet or more of conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.</p> <p><b>Exception:</b> Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO<sub>2</sub>), and potentially other refrigerants.</p> <p><b>[NOTE: See all requirements for refrigerant piping, valves, refrigerated service cases, refrigerant receivers, pressure testing and system evacuation contained under section 5.508.2.]</b></p>	<p align="center"><input checked="" type="checkbox"/></p> <p>As applicable</p>		<p align="center"><input type="checkbox"/></p>
<p align="center"><b>ADDITIONAL ELECTIVE MEASURE</b></p>			
<p><b>A5.601.2.4.5 Additional elective measure.</b> Pursuant to Tier 1 requirements, select <u>one</u> additional Tier 1 elective measure from any division above. The total number of boxes checked under the Tier 1 electives in Column 2 must be five (5) or more.</p>	<p align="center"><input checked="" type="checkbox"/></p>	<p align="center">Total elective measures checked above</p>	<p align="center"><input type="checkbox"/></p>

<b>INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS</b>	<i>All checked items are required for the project</i>		<i>Select all measures verified in the completed project</i>
<b>Qualifications</b>		A5.7	
<b>702.1</b> HVAC system installers are trained and certified in the proper installation of HVAC systems.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>702.2</b> The CALGreen Special Inspector for this project is qualified and able to demonstrate competence in the discipline they inspect and verify.	<input checked="" type="checkbox"/>		<input type="checkbox"/>
<b>Verifications</b>		A5.7	
<b>703.1</b> Verification of compliance with CALGreen+Tier 1 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.	<input checked="" type="checkbox"/>		<input type="checkbox"/>

## Green Building Signature Page

City of Mill Valley Requirements - Based on the Appendix A4 2016 CAL Green Building Code (CALGreen) + Tier 1

Project Address & Permit Number: \_\_\_\_\_  
Green Building Rater (First & Last Name): \_\_\_\_\_  
Green Building Rater Certification  
(Attach Documentation): \_\_\_\_\_

### 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 certified Green Building rater 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 2016 California Green Building Standards Code as amended by Chapter 14 of the Mill Valley Municipal Code.

Owner's Signature	Date
Owner Name (Please Print)	
Design Professional's Signature	Date
Design Professional's Name (Please Print)	
Signature of Certified Green Building Rater	Date
Green Building Rater Name (Please Print)	Phone
Green Building Rater E-mail Address	Green Building Certification & No.

### Section 2 - Construction Verification

Complete, sign and submit the completed checklist, including Column 3, together with all original signatures on Section 2 - "Implementation Verification" to the Building Department prior to Building Department 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 2016 California Green Building Standards Code as amended by Chapter 14 of the Mill Valley Municipal Code.

Certified Green Building Rater Signature	Date
Green Building Rater Name (Please Print)	Phone (if different than above)
Green Building Rater E-mail Address (if different than above)	Green Building Certification & No.