# MARIN COUNTY GREEN BUILDING FORM

*STANDARDS FOR MULTI-FAMILY AND HOTEL/MOTEL RENOVATIONS 750 SQ. FT. OR MORE*

**The provisions of this checklist apply to projects where the cumulative scope of the permitted work is 750 square feet or more**. These green building standards have been established to ensure that residential renovations (aka additions and alterations) such as multi-family residences, hotel/motels, and other dwellings in Marin County is healthy for occupants, has limited impact on the environment, reduces demand for energy, and results in cost savings from building operation. Requirements were adopted November 2022 and enforced starting January 1, 2023, ending December 31, 2025. The three-step process below helps applicants understand and comply with the County’s green building requirements. Please reference [Title 19.04 and 19.07 of the Marin County Building Code](https://library.municode.com/ca/marin_county/codes/municipal_code?nodeId=TIT19MACOBUCO) to comply.

# GREEN BUILDING PROJECT PROCESS

## 1 Project Design

It is important for project owners, architects, engineers, and designers to understand the applicable state and local green building requirements prior to project design. Early consideration of these standards allows for design of buildings and systems that are compliant, energy efficient, and cost effective, and minimize back and forth.

## 2 Planning Application (*If required*)

If your project is subject to planning review, be prepared to identify in your planning application what compliance methods you’ve selected and how you plan to meet the requirements. If you anticipate difficulties meeting the requirements outlined in the Green Building Checklist, these concerns and any requests for exemptions should be identified in your planning application.

## 3 Initial Building Permit Submittal

All the following MUST be included with your initial application for a building permit:

[ ]  Completed [Marin County Green Building Checklist](#_MARIN_COUNTY_2022) (*pages 2-3*)

[ ]  Completed [Marin County CALGreen Tier 1 Checklist](#_MARIN_COUNTY_2022_1) (*pages 4-16*), with plan sheet references where applicable.

[ ]  Energy Code compliance documents as required under State Energy Code

## DEFINITION of “New Construction”

Removal or substantial modification of more than 75 percent of the linear sum of a building’s exterior walls for each story shall be considered demolition of the building (County of Marin Development Code Chapter 22.130.030), triggering the new construction requirements. If your renovation (addition and alteration) project meets this definition, please see the guide for new construction.

# MARIN COUNTY GREEN BUILDING CHECKLIST

*STANDARDS FOR MULTI-FAMILY AND HOTEL/MOTEL RENOVATIONS 750 SQ. FT. OR MORE*

Project address:

APN: Applicant Name:

## Green Building and EV Readiness

[ ] Complete this Marin County Green Building Checklist AND [CALGreen Tier 1 Checklist: Standards for Multifamily Residential Renovations 750 square feet](#_MARIN_COUNTY_2022_1) or more.

***VERIFICATION:*** Checklists must be signed by a qualified building professional, such as an architect, engineer, or a qualified green building professional and attached to your application.

## Energy Efficiency and Electrification

[ ] Meet the standards outlined for the project in the 2022 State Building Energy Efficiency Standards. While local standards for renovations 750 square feet or more do not require applicants to exceed statewide energy efficiency codes, be aware of the mandatory requirements established by the state that may apply to your project. Changes that may trigger additional requirements or HERS verification may include, but are not limited to, the addition, alteration, or expansion of:

* Fenestration, including windows, skylights, and doors with more than 3 sq.ft. of glass
* Insulation and Ducts
* New space heating and cooling, water heating, and ventilation systems

***VERIFICATION:*** Attach Title 24 Energy Reports that complies with State minimum energy code

## Low Carbon Concrete (Check One of the Following)

[ ] Permit application includes completed Cement or Embodied Carbon limit compliance forms that can be found on the [County’s Low-Carbon Concrete Requirements](https://www.marincounty.org/depts/cd/divisions/sustainability/low-carbon-concrete-2022) webpage.

***VERIFICATION:*** Compliance forms must be signed re-submitted after completion of poured concrete along with batch (proof) receipts.

[ ] Not applicable; the project does not include pouring new concrete.

## Project Verification

This form and all referenced forms herein have been completed by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(name) of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(company), the party responsible for this building permit application for the above listed project who affirms under penalty of perjury that it accurately represents the project plans. Applicant still must complete the CALGreen Tier 1 Checklist and/or Low Carbon Concrete form, as applicable.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name (Please Print)

## Summarizing Energy End Use (Check Boxes and Input VALUES):

[ ] Total Conditioned Floor Area within the Project Scope \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ square feet

SELECT either the Performance or Prescriptive-based Compliance Pathway below and submit appropriate documentation as requested (Check One of the Following):

[ ]  For projects using the Performance Based Pathway to Compliance, submit data extract in .xml format from the 2022 Energy Code Compliance Software (CBECC or EnergyPro)

[ ]  For projects using the Prescriptive Based Pathway to Compliance (Check One of the Following):

[ ]  Submit data extract in .xml format from the 2022 Energy Code Compliance Software (CBECC or EnergyPro), OR

[ ]  If Energy Code Compliance Software was not used, please select the following measures planned for installation in Table 1 below, within the scope of your project (check all that apply):

|  |
| --- |
| **Table 1. Measures and Appliances Installed** |
| **Check All That Apply** | **Measures Installed** | **Check All That Apply** | **Measures Installed** |
| [ ]  | Air Sealing | [ ]  | Heat Pump Water Heater, High Efficiency, NEEA Tier 3 |
| [ ]  | Cool Roof | [ ]  | Hot water pipe and tank insulation, low-flow fixtures |
| [ ]  | Duct Sealing | [ ]  | Induction Cooktop |
| [ ]  | Exterior Photosensor | [ ]  | LED lamp vs CFL |
| [ ]  | Heat Pump Dryer | [ ]  | New Ducts |
| [ ]  | Heat Pump HVAC | [ ]  | R-49 Attic Insulation |
| [ ]  | Heat Pump HVAC, High Efficiency, SEER 21 or greater; HSPF 11 or greater | [ ]  | Solar PV \_\_\_\_\_ kW DC |
| [ ]  | Heat Pump Water Heater | [ ]  | Battery (storage) \_\_\_\_\_ kWh |
| [ ]  | Other (please describe): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

***VERIFICATION:*** Compliance will be verified by 1) submitting 2022 Energy Code Compliance Software data extract (.xml) and attaching Title 24 Energy Reports that complies with State minimum energy code,OR 2) completing Table 1 above.

# MARIN COUNTY CALGREEN TIER 1 CHECKLIST

*STANDARDS FOR MULTI-FAMILY AND HOTEL/MOTEL RENOVATIONS 750 SQ. FT. OR MORE*

This checklist is effective January 1, 2023 and applies to additions and alterations of multi-family dwellings, hotels, motels, lodging houses, dormitories, condominiums, shelters, congregate residences, employee housing, factory-built housing and other types of dwellings containing sleeping accommodations, and accessory structures.

**The provisions of this checklist apply to projects where the cumulative scope of the permitted work being added to or altered is 750 square feet or more**. Existing site and landscaping improvements that are not otherwise disturbed are not subject to CALGreen.

**Submit this CALGreen Tier 1 checklist accompanied with the** [**Marin County Green Building Checklist**](#_MARIN_COUNTY_2019_1) **(see pages 2-3 above) with your plans to demonstrate compliance with the green building ordinance**. This checklist includes modifications specific to Marin County. For more information on the County’s Green Building requirements, please visit [www.maringreenbuilding.org](http://www.maringreenbuilding.org)

For more information on CALGreen and complete measure language, see [Marin County Building Code, Chapter 19.04, Subchapter 2](https://library.municode.com/ca/marin_county/ordinances/municipal_code?nodeId=1183890) which requires (with amendments) CALGreen [Chapters 4](https://codes.iccsafe.org/content/CAGBC2022P1/chapter-4-residential-mandatory-measures) and [Appendix A4](https://codes.iccsafe.org/content/CAGBC2022P1/appendix-a4-residential-voluntary-measures).

**Project DETAILS**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Address APN

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Applicant Name (Please Print)

**Project Verification**

The green building professional[[1]](#footnote-2) has reviewed the plans and certifies that the mandatory and elective measures listed below are hereby incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the 2022 California Green Building Standards Code as amended by the County of Marin.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature Date

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name (Please Print)

**DIVISION 4.1 PLANNING AND DESIGN**

* *All measures marked as* ***(MANDATORY)*** *are required unless not in project scope.*
* *For all measures marked as (****ELECTIVE****), a minimum of TWO* ***ELECTIVE*** *measures must be selected.*
* *Use the Checkboxes* (☒) *to mark as Completed, Not Applicable (N/A), or the measure selected.*

 **4.106.2 (MANDATORY)** A plan is developed and implemented to manage stormwater runoff from the construction activities through compliance with the [County of Marin’s Stormwater Runoff Pollution Prevention Ordinance](https://library.municode.com/ca/marin_county/codes/municipal_code?nodeId=TIT23NARE_CH23.18STRUPOPR_ART1TIPUGEPR_23.18.010TI).

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.106.3** **(MANDATORY)** Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.106.2.3** **(MANDATORY)** Displaced topsoil shall be stockpiled for reuse in a designated area and covered or protected from erosion.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.106.4** **(MANDATORY)** Permeable paving is utilized for not less than 20 percent of the total parking, walking, or patio surfaces.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.106.5** **(MANDATORY)** Roofing materials shall have a minimum 3-year aged solar reflectance and thermal emittance or a minimum Solar Reflectance Index (SRI) equal to or greater than the values specified in Tables A4.106.5.1(3). *In Marin County, this measure does not apply to low-rise residential. This measure applies only to high-rise residential buildings, hotels, and motels with a roof slope >2:12.*

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.106.4.1.2 (MANDATORY)** For existing multifamily buildings, comply with EV Charging and parking space requirements as amended from CALGreen, in accordance with[*Marin County Building Code, Chapter 19.04.135*](https://library.municode.com/ca/marin_county/ordinances/municipal_code?nodeId=1183890)*, Section 4.106.4.1.2*, for:

☐ *PROJECTS UPGRADING THE SERVICE PANEL (select one of the following)*

☐ Add designated electrical capacity for 20% of onsite parking spaces to be Level 2 EV Ready

☐ N/A

☐ *PROJECTS MODIFYING (Paving material and curbing removed) THE PARKING LOT (select one of the following)*:

☐ Add raceway (aka conduit) to a minimum of 50% of exposed parking spaces, OR

☐ Add raceway to a minimum of 20% of exposed parking spaces AND install at minimum 5% EVCS to parking spaces requiring any combination of Level 2 and Direct Current Fast Charging EV supply equipment (EVSE), except at least one Level 2 EVSE shall be provided.

☐ *IF EXISTING ELECTRICAL SERVICE WILL NOT BE UPGRADED* in the project *scope*, designate capacity for parking spaces to the maximum extent that does not require an upgrade to existing electrical service.

 *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.106.4.2.2 (MANDATORY)** For existing hotel, motel, or other dwelling buildings, comply with EV Charging and parking space requirements as amended from CALGreen, in accordance [with *Marin County Building Code, Chapter 19.04.135*](https://library.municode.com/ca/marin_county/ordinances/municipal_code?nodeId=1183890)*, Section 4.106.4.2.2*, for:

☐ *PROJECTS UPGRADING THE SERVICE PANEL (select one of the following)*

☐ Add designated electrical capacity for 20% of onsite parking spaces to be Level 2 EV Ready

☐ N/A

☐ *PROJECTS MODIFYING (Paving material and curbing removed) THE PARKING LOT (select one of the following)*:

☐ Add raceway (aka conduit) to a minimum of 50% of exposed parking spaces, OR

☐ Add raceway to a minimum of 20% of exposed parking spaces AND install at minimum 5% EVCS to parking spaces requiring any combination of Level 2 and Direct Current Fast Charging EV supply equipment (EVSE), except at least one Level 2 EVSE shall be provided.

☐ *IF EXISTING ELECTRICAL SERVICE WILL NOT BE UPGRADED* in the project *scope*, designate capacity for parking spaces to the maximum extent that does not require an upgrade to existing electrical service.

 *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.103.1 Site Selection** **(ELECTIVE)** - A site which complies with at least one of the following characteristics (check at least one):

[ ] Infill

[ ] Greyfield

[ ] EPA-recognized Brownfield

*Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.103.2 Site Selection** **(ELECTIVE)** -Facilitate Community connectivity by locating w/in true walking distance of (check at least one):

[ ] ¼ mile of at least 4 basic services

[ ] ½ mile of at least 7 basic services

[ ] Other methods increasing access to additional resources

*Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.104.1 Site Preservation** **(ELECTIVE)** - An individual with oversight responsibility of the project has participated in an educational program promoting environmentally friendly design or development and has provided training or instruction to appropriate entities

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.105.2 Deconstruction and Reuse of Existing Materials** **(ELECTIVE)** - Existing buildings are disassembled for reuse or recycling of building material. The proposed structure utilizes at least one of the following materials which can be easily reused (check at least one):

[ ]  Light fixtures [ ]  Electrical devices

[ ]  Plumbing fixtures [ ]  Appliances

[ ]  Doors and trim [ ]  Foundations or portions of foundations

[ ]  Masonry

 *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.106.2.1 Site Development** **(ELECTIVE)** – Soil analysis is performed by a license design professional and the findings utilized in the structural design of the building

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.106.2.2 Site Development** **(ELECTIVE)** –Soil disturbance and erosion are minimized by using one of the following (check at least one):

[ ]  Natural drainage patterns are evaluated and erosion controls are implemented to minimize erosion during construction and after occupancy.

[ ]  Site access is accomplished by minimizing the amount of cut and fill needed to install access roads and driveways.

[ ]  Underground construction activities are coordinated to utilize the same trench, minimize the amount of time the disturbed soil is exposed and the soil is replaced using accepted compaction methods.

*Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.106.3 Site Development** **(ELECTIVE)** – Postconstruction landscape designs accomplish one or more of the following (check at least one):

[ ]  Areas disrupted during construction are restored to be consistent with native vegetation species and patterns

[ ]  Utilize 75 percent of native California or drought tolerant plant and tree species appropriate for the climate zone region.

*Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.106.6 Site Development** **(ELECTIVE)** –Install avegetated roof for at least 50 percent of roof area and shall comply with requirements for roof gardens and landscaped roofs in California Building Code, Chapter 15/16

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.106.7 Site Development** **(ELECTIVE)** – Reduce nonroof heat islands for 50 percent of sidewalks, patios, driveways or other paved areas by using one or more of the methods listed.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.106.9 Site Development** **(ELECTIVE)** – Provide bicycle parking facilities as noted below or meet a local ordinance as per section A4.106.9.1, A4.106.9.2, or A4.106.9.3

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.306.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)**

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DIVISION 4.2 Energy EFFICIENCY**

* *All measures marked as* ***(MANDATORY)*** *are required unless not in project scope.*
* *Use the Checkboxes* (☒) *to mark as Completed, Not Applicable (N/A), or the measure selected.*

**4.201.1 (MANDATORY)** Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION**

* *All measures marked as* ***(MANDATORY)*** *are required unless not in project scope.*
* *For all measures marked as (****ELECTIVE****), a minimum of TWO* ***ELECTIVE*** *measures must be selected.*
* *Use the Checkboxes* (☒) *to mark as Completed, Not Applicable (N/A), or the measure selected.*

**4.303.1 Indoor Water Use (MANDATORY)** 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 4.303.1.4.5.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.303.1.4.3 Indoor Water Use (MANDATORY)** – Metering faucets in residential buildings shall not deliver more than 0.2 gallons per cycle.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.303.2 Indoor Water Use (MANDATORY) – Submeters for multifamily building and dwelling units in mixed-use residential/commercial buildings.** Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the *California Plumbing Code*.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **4.303.3 Indoor Water Use (MANDATORY)** – 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.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.304.1 Outdoor Water Use (MANDATORY)** – Residential developments shall comply with local water efficient landscape ordinance or the current California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.305.1 Water Reuse Systems (MANDATORY)** – Newly constructed residential developments, where disinfected tertiary recycled water is available from a municipal source to a construction site, may be required to have recycled water supply systems installed, allowing the use of recycled water for residential landscape irrigation systems.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.303.1 Indoor Water Use** **(ELECTIVE)** – The maximum flow rate of kitchen faucets shall not exceed 1.5 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 1.5 gallons per minute at 60 psi. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.303.2 Indoor Water Use** **(ELECTIVE)** – Alternate water sources for nonpotable applications. Alternate nonpotable water sources are used for indoor potable water reduction. Alternate nonpotable water sources shall be installed in accordance with the *California Plumbing Code.*

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.303.3 Indoor Water Use** **(ELECTIVE)** – Install at least one qualified ENERGY STAR dishwasher or clothes washer.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.303.4 Indoor Water Use** **(ELECTIVE)** – Nonwater urinals and waterless toilets are installed.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.303.5 Indoor Water Use** **(ELECTIVE)** – One- and two-family dwellings shall be equipped with a demand hot water recirculation system.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.304.1 Outdoor Water Use** **(ELECTIVE)** – A rainwater capture system is designed and installed.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.304.2 Outdoor Water Use** **(ELECTIVE)** – A landscape design is installed that eliminates the use of potable water.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.304.3 Outdoor Water Use** **(ELECTIVE)** – For new water service connections, landscaped irrigated areas less than 5,000 square feet shall be provided with separate submeters or metering devices for outdoor potable water use

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.305.1 Water Reuse Systems** **(ELECTIVE)** – Piping is installed to permit future use of a graywater irrigation system served by the clothes washer or other fixtures.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.305.2 Water Reuse Systems** **(ELECTIVE)** – Recycled water piping is installed.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.305.3 Water Reuse Systems** **(ELECTIVE)** – Recycled water is used for landscape irrigation.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.306.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)** – Items that address innovative concepts or local environmental conditions.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DIVISION 4.4 MATERIAL CONSERVATION & RESOURCE EFFICIENCY**

* *All measures marked as* ***(MANDATORY)*** *are required unless not in project scope.*
* *For all measures marked as (****ELECTIVE****), a minimum of TWO* ***ELECTIVE*** *measures must be selected.*
* *Use the Checkboxes* (☒) *to mark as Completed, Not Applicable (N/A), or the measure selected.*

 **A4.403.2** **Foundation Systems (MANDATORY)** – Cement use in foundation mix design is reduced in accordance with [*Marin County Building Code, Chapter 19.07 – Carbon Concrete Requirements*](https://library.municode.com/ca/marin_county/codes/municipal_code?nodeId=TIT19MACOBUCO_CH19.07CACORE_19.07.050CO). Select one Pathway and submit the appropriate compliance forms during Plan Review AND for Final Inspection:

[ ]  Cement Limit Pathway

[ ]  For Plan Review: [Design Team (Structural Engineer/Architect) Low Carbon Concrete Cement Compliance Form](https://www.marincounty.org/-/media/files/departments/cd/planning/sustainability/low-carbon-concrete/05032023-update/lcc-cement_design_compliance-formv4_05032023.pdf?la=en)

[ ]  For Final Inspection: [Contractor Low Carbon Concrete Cement Compliance Form](https://www.marincounty.org/-/media/files/departments/cd/planning/sustainability/low-carbon-concrete/05032023-update/lcc-cement_contractor_compliance-formv4_05032023.pdf?la=en) accompanied by batch receipts from ready-mix supplier

[ ]  Embodied Carbon Pathway

[ ]  For Plan Review: [Design Team (Structural Engineer/Architect) Low Carbon Concrete EC Compliance Form](https://www.marincounty.org/-/media/files/departments/cd/planning/sustainability/low-carbon-concrete/05032023-update/lcc-ec_design_compliance-formv4_05032023.pdf?la=en)

[ ]  For Final Inspection: [Contractor Low Carbon Concrete EC Compliance Form](https://www.marincounty.org/-/media/files/departments/cd/planning/sustainability/low-carbon-concrete/05032023-update/lcc-ec_contractor_compliance-formv4_05032023.pdf?la=en) accompanied by batch receipts from ready-mix supplier

*Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.405.3 Material Sources (MANDATORY)** – Postconsumer or preconsumer recycled content value (RCV) materials are used on the project, not less than a 10 percent recycled content value.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.406.1 Enhanced Durability and Reduced Maintenance (MANDATORY)** – 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.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.408.1 Construction Waste Reduction, Disposal and Recycling (MANDATORY)** – Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with the reporting standards outlined by [Zero Waste Marin](https://zerowastemarin.org/wp-content/uploads/2017/07/Marin-CD-Form-121616.pdf).Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.408.1 Construction Waste Reduction, Disposal and Recycling (MANDATORY)** – Construction waste generated at the site is diverted to recycle or salvage in compliance with at least a 65 percent reduction. 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.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.410.1 Building Maintenance and Operation (MANDATORY)** – An operation and maintenance manual shall be provided to the building occupant or owner.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.410.2 Building Maintenance and Operation (MANDATORY)** – Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible areas that serve all buildings on the site and is identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance if more restrictive.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.403.1 Foundation Systems** **(ELECTIVE)** - Frost protected foundation systems is designed and constructed.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.404.1 Efficient Framing Techniques** **(ELECTIVE)** – Beams and headers and trimmers are the minimum size to adequately support the load.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.404.2 Efficient Framing Techniques** **(ELECTIVE)** – Dimensions and layouts are designed to minimize waste.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.404.3 Efficient Framing Techniques** **(ELECTIVE)** – Use premanufactured building systems to eliminate solid sawn lumber whenever possible.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.404.4 Efficient Framing Techniques** **(ELECTIVE)** – Material lists are included in the plans which specify material quantity and provide direction for on-site cuts.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.405.1 Material Sources** **(ELECTIVE)** – One or more of the following materials, that do not require additional resources for finishing are used (check at least one):

[ ]  Exterior trim not requiring paint or stain

[ ]  Windows not requiring paint or stain

[ ]  Siding or exterior wall coverings which do not require paint or stain

*Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.405.2 Material Sources** **(ELECTIVE)** – Floors that do not require additional coverings are usend including but not limited to stained, natural or stamped concrete floors

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.405.4 Material Sources** **(ELECTIVE)** – Renewable source building products are used.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.407.1 Water Resistance and Moisture Management** **(ELECTIVE)** – Install foundation and landscape drains.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.407.2 Water Resistance and Moisture Management** **(ELECTIVE)** – Install gutter and downspout systems to route water at least 5 feet away from the foundation or connect to landscape drains which discharge to a dry well, sump, bioswale, rainwater capture system or other approved on-site location.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.407.3 Water Resistance and Moisture Management** **(ELECTIVE)** – Provide flashing details on the building plans and comply with accepted industry standards or manufacturer’s instructions.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.407.4 Water Resistance and Moisture Management** **(ELECTIVE)** – Protect building materials delivered to the construction site from rain and other sources of moisture.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.407.6 Water Resistance and Moisture Management** **(ELECTIVE)** – Exterior doors to the dwelling are protected to prevent water intrusion.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.407.7 Water Resistance and Moisture Management** **(ELECTIVE)** – A permanent overhang or awning at least 2 feet in depth is provided.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.411.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)**

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DIVISION 4.5 ENVIRONMENTAL QUALITY**

* *All measures marked as* ***(MANDATORY)*** *are required unless not in project scope.*
* *For all measures marked as (****ELECTIVE****), a minimum of ONE* ***ELECTIVE*** *measure must be selected.*
* *Use the Checkboxes* (☒) *to mark as Completed, Not Applicable (N/A), or the measure selected.*

**4.503.1 Fireplaces (MANDATORY)** – Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with the U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances in accordance with [*Marin County Building Code, Chapter 19.08*](https://library.municode.com/ca/marin_county/codes/municipal_code?nodeId=TIT19MACOBUCO_CH19.08INWORNDEEMOPNRTWORNDE)

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.504.1** **Pollutant Control** **(MANDATORY)** – Duct openings and other related air distribution component openings shall be covered during construction.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.504.2.1** **Pollutant Control** **(MANDATORY)** – Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.504.2.2** **Pollutant Control** **(MANDATORY)** – Paints, stains and other coatings shall be compliant with VOC limits.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.504.2.3** **Pollutant Control** **(MANDATORY)** – Aerosol paints and coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.504.2.4** **Pollutant Control** **(MANDATORY)** – Documentation shall be provided to verify that compliant VOC limit finish materials have been used.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.504.3** **Pollutant Control** **(MANDATORY)** – Carpet and carpet systems shall be compliant with VOC limits.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.504.4** **Pollutant Control** **(MANDATORY)** – 80 percent of floor area receiving resilient flooring shall comply with specified VOC criteria.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.504.5** **Pollutant Control** **(MANDATORY)** – Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.504.2** **Pollutant Control (MANDATORY)** – Install VOC compliant resilient flooring systems. Ninety (90) percent of floor area receiving resilient flooring shall comply with the VOC-emission limits established in section A4.504.2.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.504.3** **Pollutant Control (MANDATORY)** – Thermal insulation installed in the building shall be in compliance with VOC limits.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.505.2 Interior Moisture Control (MANDATORY)** – Vapor retarder and capillary break is installed at slab on grade foundations.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.505.3 Interior Moisture Control (MANDATORY)** – Moisture content of building materials used in wall and floor framing is checked before enclosure.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.506.1 Indoor Air Quality and Exhaust (MANDATORY)** – Each bathroom shall be provided with the following:

1. ENERGY STAR fans ducted to terminate outside the building.
2. Fans must be controlled by a humidity control (Separate or built-in); OR functioning as a component of a whole-house ventilation system.
3. Humidity controls with manual or automatic means of adjustment, capable of adjustment between a relative humidity range of ≤ 50 percent to a maximum of 80 percent.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.507.2 Environmental Comfort (MANDATORY)** – Duct systems are sized, designed, and equipment is selected using the following methods:

1. Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J-2016 or equivalent.
2. Size duct systems according to ANSI/ACCA 1 Manual D – 2016 or equivalent.
3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 or equivalent.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.504.1. Pollutant Control** **(ELECTIVE)** – Use composite wood products made with either California Air Resources Board approved no-added formaldehyde (NAF) resins or ultra-low emitting formaldehyde (ULEF) resins.

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.506.2 Indoor Air Quality and Exhaust** **(ELECTIVE)** – Provide filters on return air openings rated MERV 8 or higher during construction when it is necessary to use HVAC equipment

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.506.3 Indoor Air Quality and Exhaust** **(ELECTIVE)** – Direct-vent appliances shall be used when equipment is located in conditioned space; or the equipment must be installed in an isolated mechanical room

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A4.509.1 Innovative Concepts and Local Environmental Conditions (ELECTIVE)**

Completed [ ]  N/A [ ]  *Plan sheet reference (if applicable):* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A qualified building professional can be an architect, engineer, contractor, or qualified green building professional, such as a CALGreen Special inspector or LEED AP. [↑](#footnote-ref-2)