

A NEW ACCESSORY DWELLING UNIT PROJECT FOR:

CITY OF ROCKLIN PERMIT READY ADU (ACCESSORY DWELLING UNIT) PLANS MODEL B2

SCOPE OF WORK:

- CONSTRUCT NEW 749 S.F. ACCESSORY DWELLING UNIT.
- SLAB FOUNDATION
- 2X6 EXTERIOR WALLS W/ STUCCO OR FIBER CEMENT LAP SIDING EXTERIOR FINISH
- PRE-FABRICATED TRUSS ROOF WITH CLASS "A" STANDING SEAM METAL ROOFING
- VINYL DUAL PANE WINDOWS
- HYBRID ELECTRIC WATER HEATER

UTILITY NOTES:

- NO GAS TO BE INSTALLED IN ADU
- ADU TO TIE INTO (E) MAIN WATER LINE
- ADU TO TIE INTO (E) S.F.R. SEWER SERVICE. NOTE: SEWER TIE-IN MUST BE OUTSIDE OF ADU FOOTPRINT
- ELECTRICAL SERVICE TO TIE INTO (E) S.F.R. OR CUSTOMER TO COORDINATE W/ UTILITY COMPANY TO OBTAIN (N) ELECTRICAL SERVICE AND METER

PROJECT SPECIFIC NOTES:

- MODIFICATIONS TO THIS PLAN SET ARE NOT ALLOWED; THESE PLANS MAY BE USED ONLY FOR CONSTRUCTION ON LOTS WITHIN THE UNINCORPORATED COUNTY OF SACRAMENTO AND ONLY IF THE PROPERTY OWNER EXECUTES A HOLD HARMLESS AGREEMENT TO THE SATISFACTION OF THE CITY OF ROCKLIN.

SEPARATE SUBMITTAL:

- NFPA 13D SPRINKLERS AS NEEDED

DEFERRED SUBMITTALS:

- PHOTOVOLTAIC SYSTEM
- PHOTOVOLTAIC PLANS SHALL BE PROVIDED BY OTHERS

PHOTOVOLTAIC REQUIREMENTS:

PER CA ENERGY CODE SUBCHAPTER 8 SECTION 150.1(C)14 ALL LOW-RISE RESIDENTIAL BUILDINGS SHALL HAVE A PHOTOVOLTAIC (PV) SYSTEM MEETING THE MINIMUM QUALIFICATION REQUIREMENTS AS SPECIFIED IN JOINT APPENDIX JA1

CUSTOMER TO SUPPLY PV PLANS AS A DEFERRED SUBMITTAL OR UTILIZE SMUD'S SOLAR SHARES PROGRAM

SITE PLAN REQUIREMENTS:

NOTE: APPLICANT IS REQUIRED TO PROVIDE A SITE PLAN (INCLUDING ALL EXISTING AND PROPOSED STRUCTURES, SIZES, LOCATIONS, USES, PLANNING DEPT SETBACKS AND ANY PUBLIC UTILITY EASEMENT(S) LOCATIONS, MAIN DWELLING ELECTRICAL PANEL LOCATION FOR A.D.U. SUB-PANEL SITUATIONS, SEWER LINE SIZE AND LOCATION ON SITE WITH CONNECTION LOCATION OF PRIMARY DWELLING SEWER MAIN, WATER SUPPLY LINE SIZE, LOCATION AND CONNECTION) AND INCORPORATE IT INTO THIS PLAN SET PRIOR TO SUBMITTING PLANS

SEE ELEVATION SHEETS FOR ADDITIONAL INFORMATION/REQUIREMENTS TO PROVIDE DWELLING ADDRESS PER 2022 CRC-R319

- ENERGY CALCULATIONS ARE SITE SPECIFIC

FIRE SPRINKLER REQUIREMENTS:

PER R313.2 AN AUTOMATIC RESIDENTIAL FIRE SPRINKLER SYSTEM SHALL NOT BE REQUIRED IN ACCESSORY DWELLING UNITS, PROVIDED ALL OF THE FOLLOWING ARE MET:

- THE UNIT MEETS THE DEFINITION OF AN ACCESSORY DWELLING UNIT AS DEFINED IN THE GOVERNMENT CODE SECTION 65852.2.
- THE EXISTING PRIMARY RESIDENCE DOES NOT HAVE AUTOMATIC FIRE SPRINKLERS.
- THE ACCESSORY DETACHED DWELLING UNIT DOES NOT EXCEED 1,200 SQUARE FEET IN SIZE.
- THE UNIT IS ON THE SAME LOT AS THE PRIMARY RESIDENCE.

HOSE REACH SHALL NOT EXCEED 150 FEET OF ALL PORTIONS OF THE EXTERIOR WALLS FROM FIRE APPARATUS ACCESS ROADS

FINAL DETERMINATION OF FIRE SPRINKLER REQUIREMENT WILL BE MADE BY LOCAL FIRE JURISDICTION.

SHEET INDEX:

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A-2.0	MODEL B2 POWER PLAN
A-3.0	MODEL B2 EXTERIOR ELEVATIONS
A-4.0	MODEL B2 FIRE DETAILS
A-5.0	STUCCO SECTION DETAILS
A-5.1	STUCCO PLAN DETAILS
A-5.2	VERTICAL SIDING SECTION DETAILS
A-5.3	VERTICAL SIDING PLAN DETAILS
S1.0	STRUCTURAL PLANS - MODEL B2
SD1	TYPICAL STRUCTURAL DETAILS
SD2	TYPICAL STRUCTURAL DETAILS
SD3	STRUCTURAL DETAILS
SN1	STRUCTURAL NOTES & SPECIFICATIONS
T24-1	2022 TITLE 24 PART 6 ENERGY CODE
T24-2	2022 TITLE 24 PART 6 ENERGY CODE
T24-3	2022 TITLE 24 PART 6 ENERGY CODE
T24-4	2022 TITLE 24 PART 6 ENERGY CODE

PROJECT DATA:

CUSTOMER ADDRESS: _____

APN: _____

JURISDICTION: CITY OF ROCKLIN

S.F. OF PROPOSED ADU: 749 S.F.

S.F. OF COVERED PORCH: 72 S.F.

S.F. OF COVERED PATIO: 69 S.F.

TOTAL S.F. UNDER ROOF LINE: 890 S.F.

FOUNDATION: SLAB

OCCUPANCY: R-3

CONSTRUCTION: TYPE V-B

CODES:
2022 CALIFORNIA RESIDENTIAL BUILDING CODE
2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA MECHANICAL CODE
2022 CALIFORNIA PLUMBING CODE
2022 CALIFORNIA ENERGY CODE
2022 CALGREEN CODE
2022 CALIFORNIA FIRE CODE

PROJECT CONTACTS:

OWNER/CONTRACTOR ADDRESS AND CONTACT INFORMATION: _____

ARCHITECT: LAURA MILLER DESIGN
CONTACT: LAURA MILLER
889 EMBARCADERO DRIVE, STE 104
EL DORADO HILLS, CA 95762
916.607.3321

STRUCTURAL ENGINEER: WCD & ASSOCIATES
CONTACT: WESLEY CULLUMBER
6930 DESTINY DRIVE, STE 300
ROCKLIN, CA 95677

GRADING & DRAINAGE NOTES:

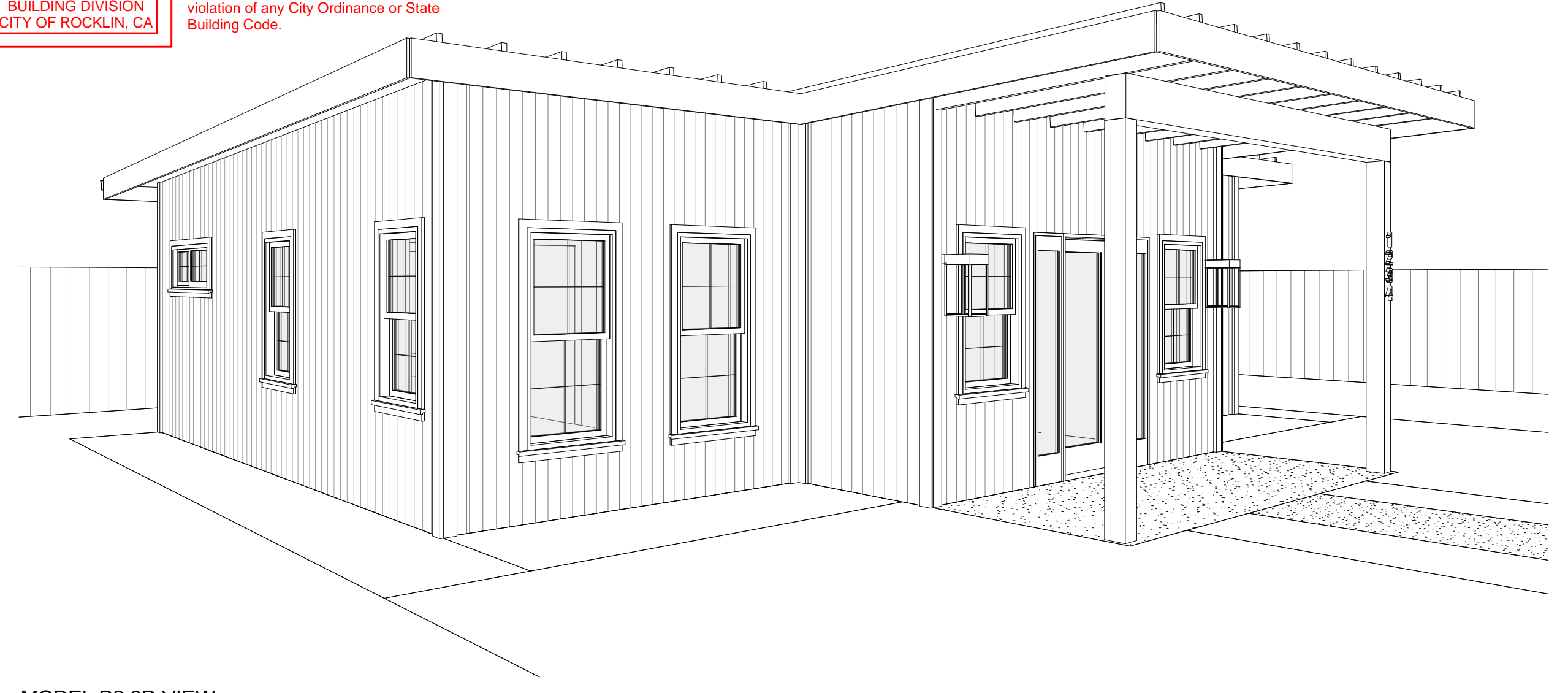
- GRADE SHALL FALL A MINIMUM OF 6" IN THE FIRST 10 FEET AWAY FROM NEW FOUNDATION WALLS WHERE THERE IS NO PAVING PER CRC 401.3. WHERE DISTANCE IS LESS THAN 10' WATER SHALL SLOPE AWAY FROM FOUNDATION
- IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2 PERCENT AWAY FROM THE BUILDING.

SETBACK REQUIREMENTS:

NOTE: ADU FOOTPRINT AND ALL ROOF OVERHANGS MAY NOT PROJECT INTO ANY PUBLIC UTILITY EASEMENTS.

COMMUNITY DEVELOPMENT
REVIEWED FOR CODE COMPLIANCE 11/25/2025
BUILDING DIVISION CITY OF ROCKLIN, CA

This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspection Division.
The approval of this plan and specifications SHALL NOT be held to permit or approve the violation of any City Ordinance or State Building Code.



1 MODEL B2 3D VIEW

GENERAL NOTES:

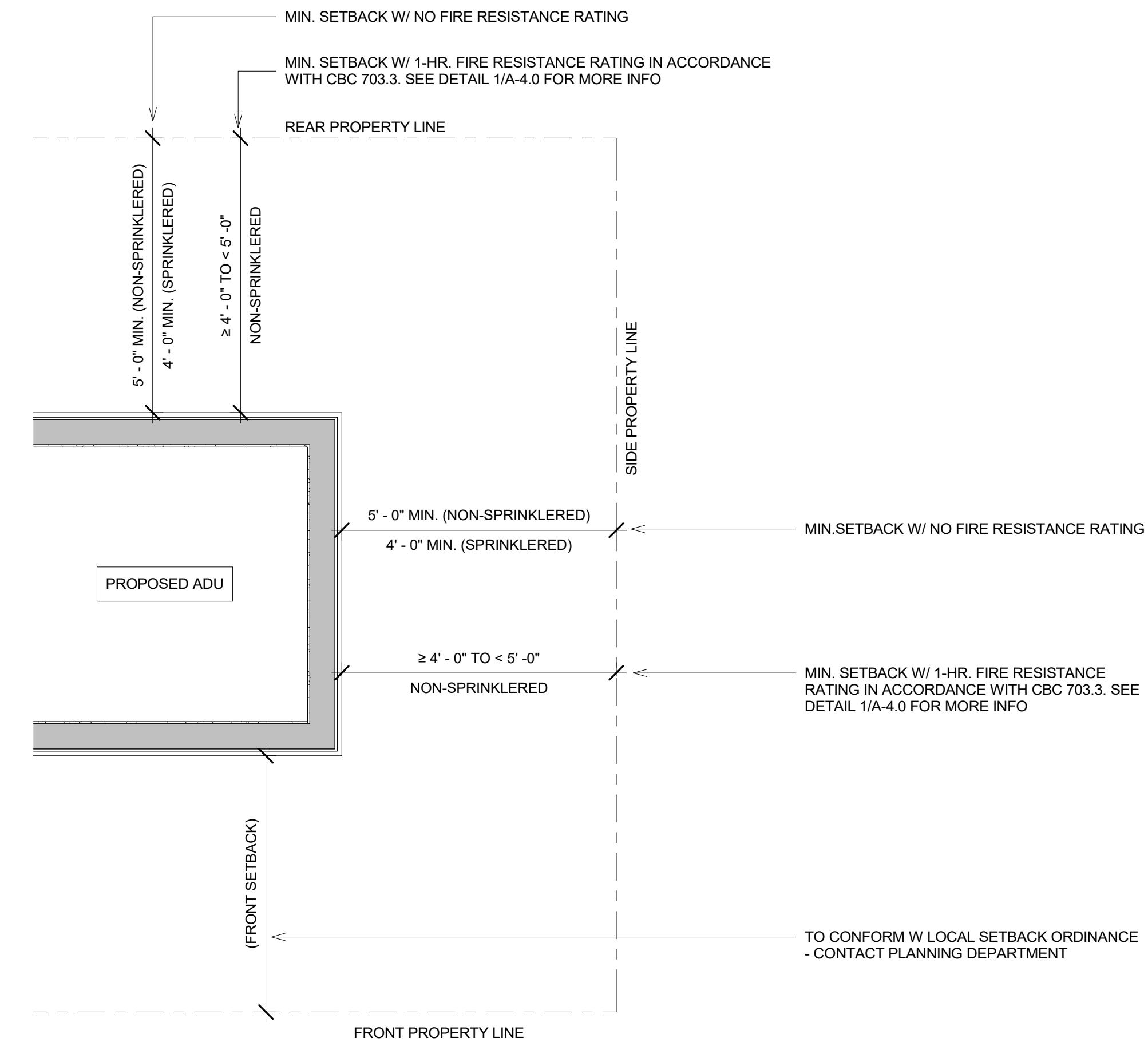
- THE INFORMATION ON THIS SET OF CONSTRUCTION DOCUMENTS IS RELATED TO THE BASIC DESIGN INTENT OF THE PROJECT. THEY ARE INTENDED AS A CONSTRUCTION AID, NOT A SUBSTITUTE FOR GENERALLY ACCEPTED GOOD BUILDING PRACTICES AND COMPLIANCE WITH CURRENT CALIFORNIA STATE BUILDING CODES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING STANDARD CONSTRUCTION DETAILS AND PROCEDURES TO ENSURE A PROFESSIONALLY FINISHED, STRUCTURALLY SOUND, AND WEATHERPROOF COMPLETED PROJECT.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL WORK AND CONSTRUCTION MEETS ALL CURRENT FEDERAL, STATE, COUNTY, AND LOCAL CODES, ORDINANCES, REGULATIONS, ETC. THESE CODES ARE TO BE CONSIDERED PART OF THE SPECIFICATIONS FOR THIS BUILDING AND SHOULD BE ADHERED TO EVEN IF THEY ARE IN VARIANCE OF THE PLAN.
- DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DRAWING (DO NOT SCALE DRAWING.)
- THE ARCHITECT HAS NOT BEEN ENGAGED FOR CONSTANT CONSTRUCTION SUPERVISION AND ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION COORDINATING WITH THESE PLANS, NOR RESPONSIBILITY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THERE ARE NO WARRANTIES FOR A SPECIFIC USE EXPRESSED OR IMPLIED IN THE USE OF THESE PLANS.

ROOF OVERHANG REQUIREMENTS:

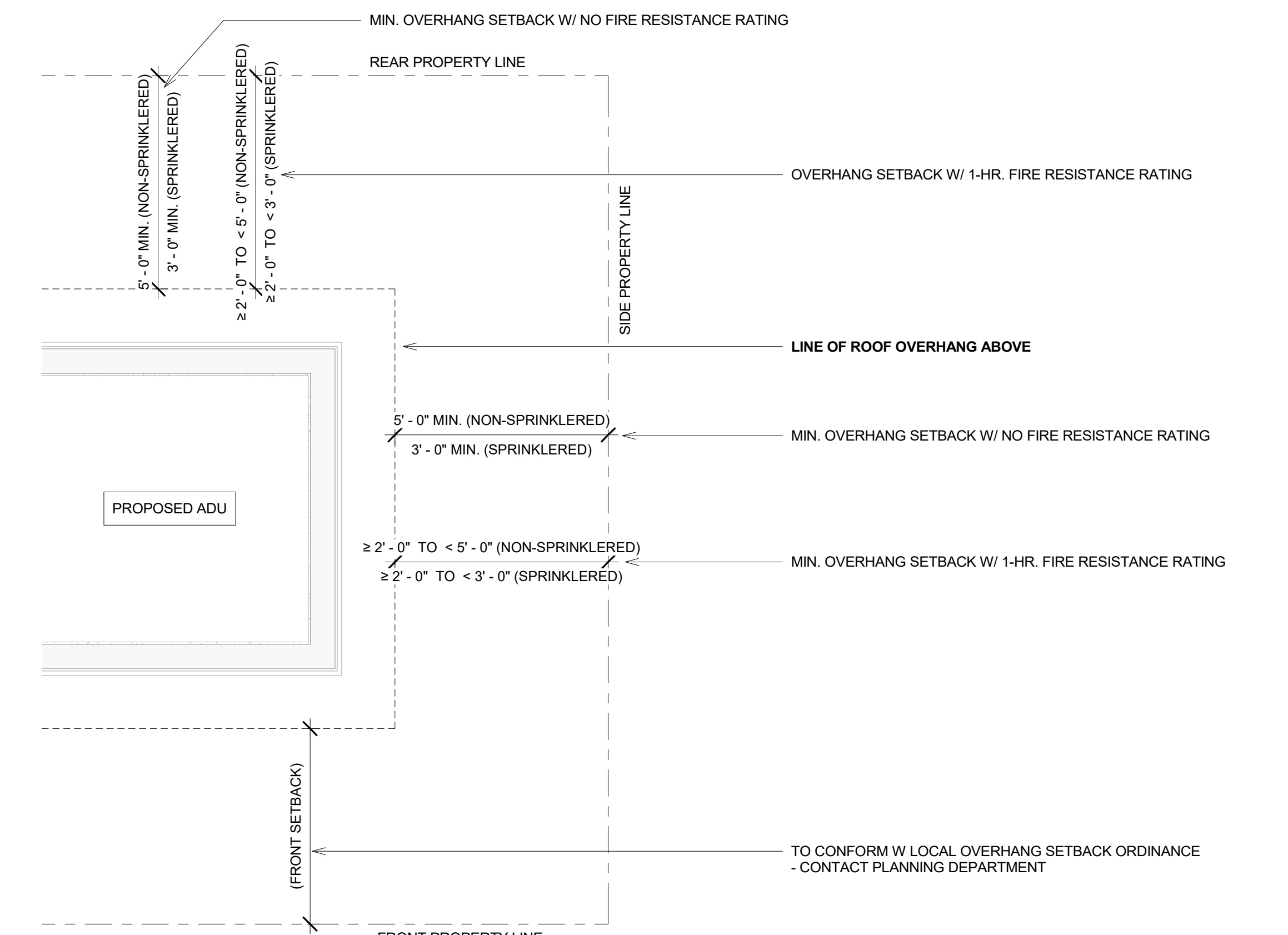
FIREBLOCKING NOTES:

- FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAMED CONSTRUCTION IN THE FOLLOWING LOCATIONS:
- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
 - VERTICALLY AT THE CEILING AND FLOOR LEVELS.
 - HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET (3048 MM).
- AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
- IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.
- AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION.
- FIREBLOCKING MATERIALS SHALL COMPLY WITH R302.11.1

NOTE: *SEE SHEET A-4.0 FOR FIRE SEPARATION (TO REAL AND ASSUMED PROPERTY LINES) REQUIREMENTS TABLE R302.1(1) AND R302.1(2) BETWEEN A.D.U. AND DWELLING / OR PROPERTY LINES.

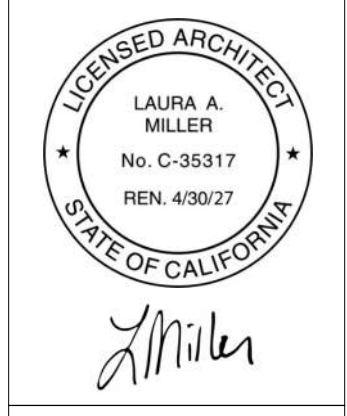


3 SETBACK KEY N.T.S.



2 OVERHANG KEY N.T.S.

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CITY OF ROCKLIN
PERMIT READY ADU (ACCESSORY DWELLING UNIT) PLANS
MODEL B2

No.	Date	Description
1	11.14.25	PC REV 1

Sheet Name:
TITLE SHEET

Scale:
N.T.S.
Date:
NOV 2025
Drawn By:
IS
Approved By:
LM
Sheet Number:

A-0.0



2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration. The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application. Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section. Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates. 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used. SECTION 302 MIXED OCCUPANCY BUILDINGS 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. Exceptions: 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable. 2. [HCD] For purposes of CALGreen, live/work units, complying with Section 419 of the California Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable. DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development BSC California Building Standards Commission DSA-SS Division of State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development LR Low Rise HR High Rise AA Additions and Alterations N New CHAPTER 4 RESIDENTIAL MANDATORY MEASURES SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar porous material used to collect or channel drainage or runoff water. WATTLETS. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls. 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and assessment to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section. 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site. 1. Retention basins of sufficient size shall be utilized to retain storm water on the site. 2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency. 3. Compliance with a lawfully enacted storm water management ordinance. Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.htm) 4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: 1. Swales 2. Water collection and disposal systems 3. French drains 4. Water retention gardens 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge. Exception: Additions and alterations not altering the drainage path. 4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625. Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions: 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power. 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities. 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device. Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the California Electrical Code. 4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities. When the number of parking spaces for new multifamily dwellings, hotels and motels shall meet the requirements of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest whole number. A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 for further details. 4.106.4.2.1 Multifamily development projects with less than 20 dwelling units; and hotels and motels with less than 20 sleeping units or guest rooms. The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section. 1.EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), has sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 ampers. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. Exceptions: 1. When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number of EV capable spaces. 2. When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable spaces, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed. Notes: a. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. b. There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use. 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit. Exception: Areas of parking facilities served by parking lifts. 4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more sleeping units or guest rooms. The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section. 1.EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), has sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 ampers. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. Exception: When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of parking spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed over the five (5) percent required. Notes: a. Construction documents shall show locations of future EV spaces. b. There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use. 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit. Exception: Areas of parking facilities served by parking lifts. 3.EV Chargers. Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. Where common use parking is provided, at least one EV charger shall be located in the common use parking area and shall be available for use by all residents or guests. When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, an automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 ampers, and installed EVSE shall have a capacity of not less than 30 ampers. ALMS shall not be used to reduce the minimum required electrical capacity to the required EV capable spaces. 4.106.4.2.2.1 Electric vehicle charging stations (EVCS). Electric vehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1. Exception: Electric vehicle charging stations serving public accommodations, public housing, hotels and motels shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable requirements. 4.106.4.2.2.1.1 Location. EVCS shall comply with at least one of the following options: 1. The charging space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space. 2. The charging space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building. Exception: Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section 4.106.4.2.2.1.2, Item 3. 4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions. The charging spaces shall be designed to comply with the following: 1. The minimum length of each EV space shall be 18 feet (5486 mm). 2. The minimum width of each EV space shall be 9 feet (2743 mm). 3. One in every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm). a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction. 4.106.4.2.2.1.3 Accessible EV spaces. In addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall comply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B, EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section 1109A. 4.106.4.2.3 EV space requirements. 1. Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the location or the proposed location of the EV space. Construction documents shall identify the raceway termination point, receptacle or charger location, as applicable. The service panel and/or subpanel shall have a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device installed, or space(s) reserved to permit installation of a branch circuit overcurrent protective device. Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space, at the time of original construction in accordance with the California Electrical Code. 2. Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the location of installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide information on ampereage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and electrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.

Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space at the time of original construction in accordance with the California Electrical Code. 4.106.4.2.4 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. 4.106.4.2.5 Electric Vehicle Ready Space Signage. Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s). 4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings. When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Notes: 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. DIVISION 4.2 ENERGY EFFICIENCY 4.201 GENERAL 4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards. DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION 4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.1.4. Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates. 4.303.1.1 Water Closets. 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. Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush. 4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush. 4.303.1.3 Showerheads. 4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads. 4.303.1.3.2 Multiple Showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead. 4.303.1.4 Faucets. 4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 60 psi. 4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi. 4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle. 4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 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. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. 4.303.1.4.5 Pre-rinse spray valves. When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7) and shall be equipped with an integral automatic shutoff. FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A). TABLE H-2 STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019 PRODUCT CLASS [spray force in ounce force (ozf)] MAXIMUM FLOW RATE (gpm) Product Class 1 (≤ 5.0 ozf) 1.00 Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf) 1.20 Product Class 3 (> 8.0 ozf) 1.28 Title 20, Section 1605.3 (h)(4)(A): Commercial pre-rinse spray valves manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)(113 grams-force/98) 4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial buildings. Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the California Plumbing Code. 4.303.3 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 7101.1 of the California Plumbing Code. NOTE: THIS TABLE COMPLETES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER. TABLE - MAXIMUM FIXTURE WATER USE FIXTURE TYPE FLOW RATE SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI LAVATORY FAUCETS (RESIDENTIAL) MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS 0.5 GPM @ 60 PSI KITCHEN FAUCETS 1.8 GPM @ 60 PSI METERING FAUCETS 0.2 GAL/CYCLE WATER CLOSET 1.28 GAL/FLUSH URINALS 0.125 GAL/FLUSH

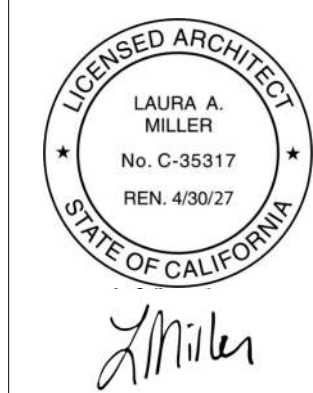
4.304 OUTDOOR WATER USE 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. NOTES: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/ DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annual spaces around pipes, electric cables, conduits or other openings in soffit/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency. 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance. Exceptions: 1. Excavated soil and land-clearing debris. 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 or are not located reasonably close to the jobsite. 3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility. 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency. 1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale. 2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream). 3. Identify diversion facilities where the construction and demolition waste material collected will be taken. 4. Identify construction methods employed to reduce the amount of construction and demolition waste generated. 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. 4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1. Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company. 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs/sq ft of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1. 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1. 4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5, Section 4.408.3 or Section 4.408.4. NOTES: 1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section. 2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). 4.410 BUILDING MAINTENANCE AND OPERATION 4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building: 1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. 2. Operation and maintenance instructions for the following: a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment. b. Roof and yard drainage, including gutters and downspouts. c. Space conditioning systems, including condensers and air filters. d. Landscape irrigation systems. e. Water reuse systems. 3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations. 4. Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range. 6. Information about water-conserving landscape and irrigation design and controllers which conserve water. 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation. 8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available. 10. A copy of all special inspections verifications required by the enforcing agency or this code. 11. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures. 12. Information and/or drawings identifying the location of grab bar reinforcements. 4.410.2 RECYCLING BY OCCUPANTS. Where 6 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are 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. Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are not required to comply with the organic waste portion of this section. DIVISION 4.5 ENVIRONMENTAL QUALITY SECTION 4.501 GENERAL 4.501.1 Scope The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors. SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FFFE) not considered base building elements. COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), Title 17, Section 9320.1. FIRE-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

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CITY OF ROCKLIN PERMIT READY ADU (ACCESSORY DWELLING UNIT) PLANS MODEL B2

CHECKLIST table with columns No., Date, Description. Includes fields for Sheet Name: CALGREEN CHECKLIST, Date: NOV 2025, Drawn By: IS, Approved By: LM, Sheet Number: [blank].



MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O₃/g ROG).

MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding containers and packaging).

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

4.503 FIREPLACES
4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with 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.

4.504 POLLUTANT CONTROL
4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, 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 water, dust or debris which may enter the system.

4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.

4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:

- 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 Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below.
- 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 1 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.

4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.

4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROG in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 48.

4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

- Manufacturer's product specification.
- Field verification of on-site product containers.

ARCHITECTURAL APPLICATIONS	VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVE	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

SEALANTS	VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

COATING CATEGORY	VOC LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).

DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)
4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01550)
 See California Department of Public Health's website for certification programs and testing labs.
 https://www.cdph.ca.gov/Programs/CDPH/PID/EODC/EHLB/IAQ/Pages/VOC.aspx.

4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01550)
 See California Department of Public Health's website for certification programs and testing labs.
 https://www.cdph.ca.gov/Programs/CDPH/PID/EODC/EHLB/IAQ/Pages/VOC.aspx.

4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1.

4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01550)
 See California Department of Public Health's website for certification programs and testing labs.
 https://www.cdph.ca.gov/Programs/CDPH/PID/EODC/EHLB/IAQ/Pages/VOC.aspx.

4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93129 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5

4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- Product certifications and specifications.
- Chain of custody certifications.
- Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
- Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards.
- Other methods acceptable to the enforcing agency.

4.505 INTERIOR MOISTURE CONTROL
4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code.

4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.

4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following:

- A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06.
- Other equivalent methods approved by the enforcing agency.
- A slab design specified by a licensed design professional.

4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following:

- Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.
- Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified.
- At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.

Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure.

4.506 INDOOR AIR QUALITY AND EXHAUST
4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following:

- Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.
- Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control.
 - Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment.
 - A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

Notes:

- For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination.
- Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.

4.507 ENVIRONMENTAL COMFORT
4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:

- The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.
- Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods.
- Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods.

Exception: Use of alternate design temperatures necessary to ensure the system functions are acceptable.

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING.

HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- State certified apprenticeship programs.
- Public utility training programs.
- Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
- Programs sponsored by manufacturing organizations.
- Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD].

When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- Certification by a national or regional green building program or standard publisher.
- Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
- Successful completion of a third party apprentice training program in the appropriate trade.
- Other programs acceptable to the enforcing agency.

Notes:

- Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
- HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

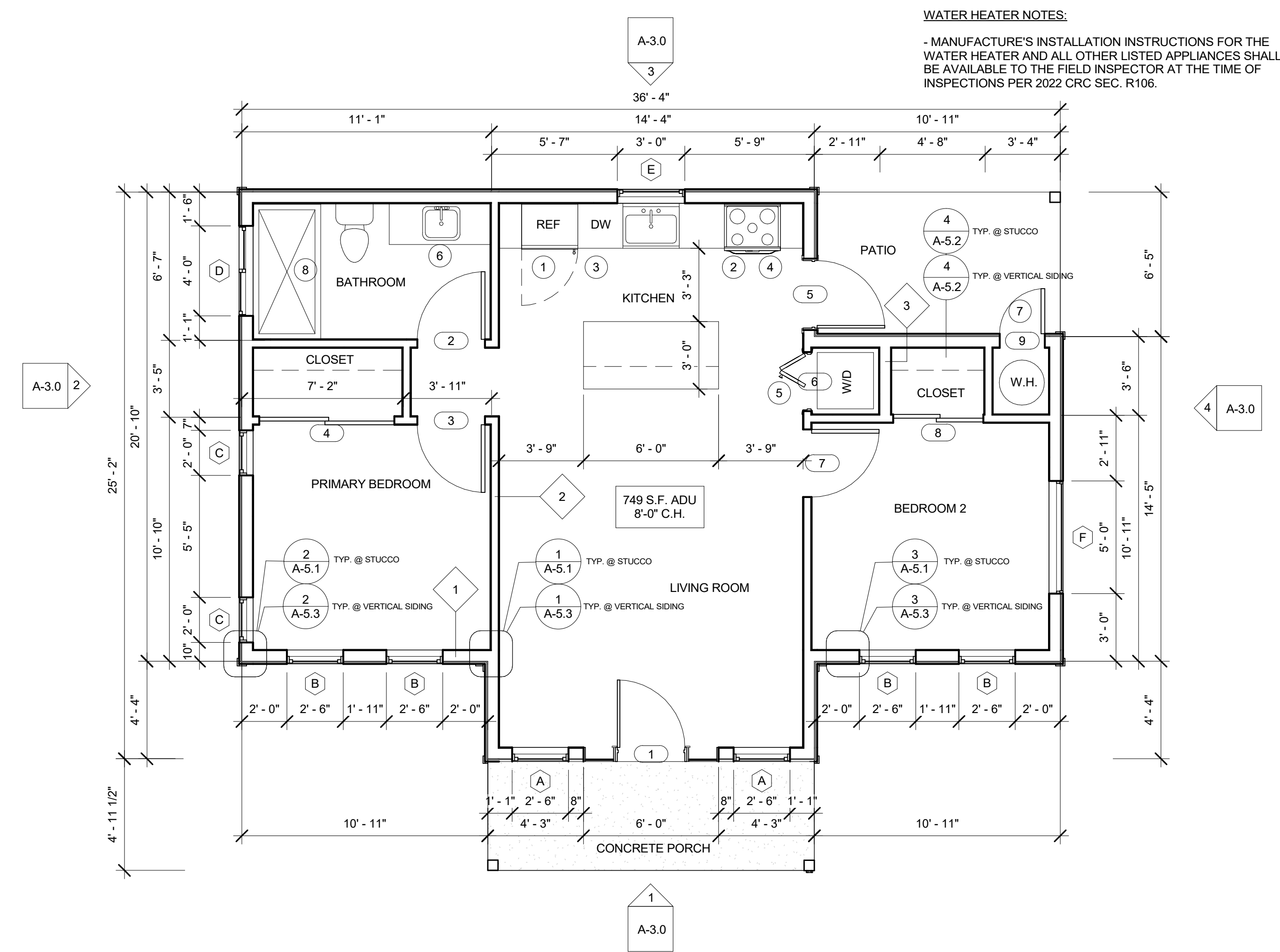
703.1 DOCUMENTATION.

Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified checklist.

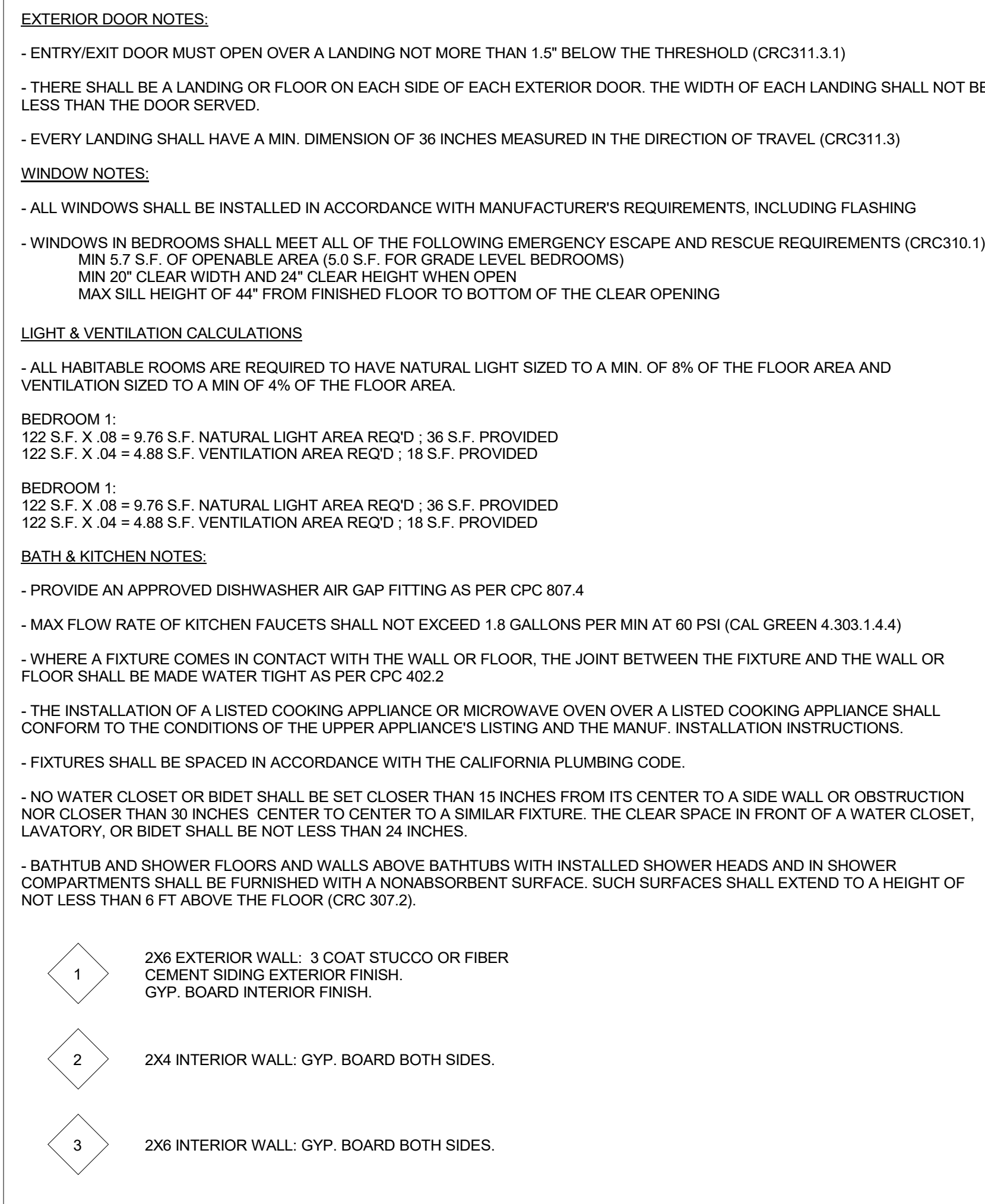
DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

CITY OF ROCKLIN
 PERMIT READY ADU (ACCESSORY DWELLING UNIT) PLANS
 MODEL B2

No. Date Description
 Sheet Name: CALGREEN CHECKLIST CONT.
 Scale:
 Date: NOV 2025
 Drawn By: IS
 Approved By: LM
 Sheet Number:



6 MODEL B2 FLOOR PLAN
 1/4" = 1'-0"



1 MODEL B2 ROOF PLAN
 1/4" = 1'-0"

Door Schedule						
Mark	Width	Height	Location	Description	Application	Hardware
1	3' - 0"	6' - 8"	UNIT ENTRY	FULL LITE, SWING DOOR	EXTERIOR	ENTRY LOCKSET
2	3' - 0"	6' - 8"	BATHROOM	FLUSH OR PANELED DOOR, SWING DOOR	INTERIOR	PRIVACY
3	3' - 0"	6' - 8"	PRIMARY BEDROOM	FLUSH OR PANELED DOOR, SWING DOOR	INTERIOR	PRIVACY
4	6' - 0"	6' - 8"	CLOSET	FLUSH OR PANELED, BI-PASS DOORS	INTERIOR	
5	3' - 0"	6' - 8"	KITCHEN	FULL LITE, SWING DOOR	EXTERIOR	ENTRY LOCKSET
6	2' - 6"	6' - 8"	WASHER AND DRYER CLOSET	LOUVERED BI-FOLD DOOR	INTERIOR	
7	3' - 0"	6' - 8"	BEDROOM 2	FLUSH OR PANELED DOOR, SWING DOOR	INTERIOR	PRIVACY
8	4' - 0"	6' - 8"	BEDROOM 2 CLOSET	FLUSH OR PANELED, BI-PASS DOORS	INTERIOR	
9	2' - 0"	6' - 8"	WATER HEATER CLOSET	LOUVERED, SWING DOOR	EXTERIOR	PASSAGE
10	1' - 3"	6' - 8"	UNIT ENTRY	SIDE LITE	EXTERIOR	
11	1' - 3"	6' - 8"	UNIT ENTRY	SIDE LITE	EXTERIOR	

- WASHER/DRYER CLOSET DOOR NOTE: A MINIMUM OF ONE SQUARE INCH OF OPENING SHALL BE PROVIDED PER 1,000 BTU'S OF EQUIPMENT INPUT. A MINIMUM OF ONE 100 S.I. OPENING WITHIN 12 INCHES OF THE FLOOR AND WITHIN 12 INCHES FROM THE TOP OF THE DOOR SHALL BE PROVIDED. (CMC 701.5)

Window Schedule						
Type Mark	Width	Height	Sill Height	Operation	Count	Egress Window
A	2' - 6"	4' - 0"	2' - 8"	SINGLE HUNG	2	
B	2' - 6"	5' - 0"	1' - 8"	SINGLE HUNG	4	Yes
C	2' - 0"	4' - 0"	2' - 8"	SINGLE HUNG	2	
D	4' - 0"	1' - 6"	5' - 2"	SLIDER	1	
E	3' - 0"	3' - 0"	3' - 8"	SINGLE HUNG	1	
F	5' - 0"	2' - 0"	4' - 8"	FIXED	1	
Grand total: 11						

FLOOR PLAN KEY NOTES	
Note Number	Note Text
1	30" REFRIGERATOR
2	30" ELECTRIC RANGE
3	24" DISHWASHER
4	30" RANGE HOOD
5	STACKED WASHER AND DRYER
6	54" VANITY
7	ELECTRIC STORAGE WATER HEATER
8	36"X72" SHOWER

WINDOW INFORMATION:
 FRAME: VINYL
 U VALUE: .3
 SHGC: .23
 ENERGY STAR CERTIFIED: YES
 LOW E GLASS: YES

WINDOW NOTES:
 - WINDOWS SHALL COMPLY WITH 2022 CRC R310 EGRESS REQUIREMENTS
 - WINDOW FLASHING NEW WINDOW INSTALLATION SHALL COMPLY WITH MANUF. SPECIFICATIONS AND CRC 703.4

AGING IN PLACE DESIGN AND FALL PROTECTION (2022 CRC R327):

- INTERIOR DOORS**
 - AT LEAST ONE BATHROOM AND ONE BEDROOM ON THE ENTRY LEVEL SHALL PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32 INCHES. MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM THE CLOSED POSITION; OR, IN THE CASE OF A TWO- OR THREE-STORY SINGLE FAMILY DWELLING, ON THE SECOND OR THIRD FLOOR OF THE DWELLING IF A BATHROOM OR BEDROOM IS NOT LOCATED ON THE ENTRY LEVEL, PER 2022 CRC R327.1.3
- DOORBELL BUTTONS**
 - DOORBELL BUTTONS OR CONTROLS, WHEN INSTALLED, SHALL NOT EXCEED 48 INCHES ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON ASSEMBLY. WHERE DOORBELL BUTTONS INTEGRATED WITH OTHER FEATURES ARE REQUIRED TO BE INSTALLED ABOVE 48 INCHES MEASURED FROM THE EXTERIOR FLOOR OR LANDING, A STANDARD DOORBELL BUTTON OR CONTROL SHALL ALSO BE PROVIDED AT A HEIGHT NO EXCEEDING 48 INCHES ABOVE EXTERIOR FLOOR OR LANDING, MEASURED FROM THE TOP OF THE DOORBELL BUTTON OR CONTROL. PER 2022 CRC R327.1.4
- ELECTRICAL RECEPTACLE OUTLET, SWITCH, AND CONTROL HEIGHTS**
 - ALL ELECTRICAL RECEPTACLE OUTLET, SWITCH AND CONTROL HEIGHTS TO BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15 INCHES ABOVE THE FINISH FLOOR, PER 2022 CRC R327.1.2
- REINFORCEMENT FOR GRAB BARS**
 - AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED IN ACCORDANCE WITH THIS SECTION. WHERE THERE IS NO BATHROOM ON THE ENTRY LEVEL, AT LEAST ONE BATHROOM ON THE SECOND OR THIRD FLOOR OF THE DWELLING SHALL COMPLY WITH THIS SECTION.
 A. REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED BY THE ENFORCING AGENCY.
 B. REINFORCEMENT SHALL NOT BE LESS THAN 2 BY 8 INCH NOMINAL LUMBER OR OTHER CONSTRUCTION MATERIAL PROVIDING EQUAL HEIGHT AND LOAD CAPACITY. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES AND 39 1/4 INCHES ABOVE THE FINISHED FLOOR FLUSH WITH THE WALL FRAMING.
 C. WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE OR ONE SIDE WALL AND THE BACK WALL.
 D. SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED.
 E. BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITH THE BOTTOM EDGE LOCATED NO MORE THAN 6 INCHES ABOVE THE BATHTUB RIM

No.	Date	Description
1	11.14.25	PC REV 1

Sheet Name:
 MODEL B2 FLOOR AND ROOF PLANS

Scale:
 1/4" = 1'-0"

Date:
 NOV 2025

Drawn By:
 IS

Approved By:
 LM

Sheet Number:

ELECTRICAL NOTES:

1. PROVIDE 2 OR MORE 20-AMP SMALL APPLIANCE BRANCH CIRCUITS TO SERVE ALL COUNTERTOP, WALL AND FLOOR RECEPTACLES IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREAS. RECEPTACLE OUTLETS SHALL BE INSTALLED AT EACH WALL, ISLAND, AND PENINSULA COUNTER SPACE IN KITCHENS AND DINING ROOMS. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
2. PROVIDE GFCI PROTECTION TO ALL 125 VOLT, 15 AND 20 AMP RECEPTACLES SERVING COUNTERTOP SURFACES IN KITCHENS, WITHIN 6 FEET OF LAUNDRY, UTILITY AND WET BAR SINKS, IN BATHROOMS, GARAGES AND ACCESSORY BUILDINGS, CRAWL SPACES, UNFINISHED BASEMENTS AND BOATHOUSES.
3. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET MEASURED HORIZONTALLY, FROM AN OUTLET IN THAT SPACE. RECEPTACLE OUTLETS ARE REQUIRED IN WALLS 2 FEET OR GREATER. HALLWAYS OF 10 FEET OR MORE IN LENGTH SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET.
4. NEW 120-VOLT, SINGLE PHASE, 15- AND 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHEN, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER (AFCI), COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. REFERENCE CEC ART. 210.12(A).
5. DWELLINGS WITH DIRECT GRADE LEVEL ACCESS SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET WITHIN 6.5 FEET OF GRADE LEVEL AT THE FRONT AND BACK OF THE DWELLING. ALL 125 VOLT, 15 AND 20 AMP, RECEPTACLES INSTALLED OUTDOORS SHALL BE GFCI PROTECTED. RECEPTACLES INSTALLED OUTDOORS IN AN EXTERIOR WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED.
6. AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY HABITABLE ROOM, IN BATHROOM, HALLWAYS, STAIRWAYS, ATTACHED GARAGES, DETACHED GARAGES WITH ELECTRIC POWER, AND AT OUTDOOR ENTRANCES OR EXITS.
7. LOCATION AND INSTALLATION REQUIREMENTS FOR LUMINAIRES SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE 2022 CALIFORNIA ELECTRICAL CODE ARTICLE 410. FIXTURES SHALL BE SECURELY SUPPORTED.
8. A FIXTURE THAT WEIGHS MORE THAN 6 POUNDS OR EXCEEDS 16 INCHES IN ANY DIMENSION SHALL NOT BE SUPPORTED BY THE SCREW SHELL OF A LAMP HOLDER.
9. OUTLET BOXES OR OUTLET BOX SYSTEMS USED AS THE SOLE SUPPORT OF A CEILING-SUSPENDED FAN SHALL BE LISTED AND MARKED BY THE MANUF. AS SUITABLE FOR THIS PURPOSE. THE REQUIRED MARKING SHALL INCLUDE THE MAX. WEIGHT TO BE SUPPORTED FOR CEILING FANS THAT WEIGH MORE THAN 35 LBS.
10. TYPE NM AND NMS CABLES SHALL NOT BE PERMITTED IN WET OR DAMP LOCATIONS.
11. FLEXIBLE METAL CONDUIT (FMC) IS NOT PERMITTED IN A WET LOCATION
12. LUMINAIRES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SUCH THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMP HOLDERS, OR OTHER ELECTRICAL PARTS. ALL LUMINAIRES INSTALLED IN WET LOCATIONS SHALL BE MARKED, "SUITABLE FOR WET LOCATIONS." ALL LUMINAIRES INSTALLED IN DAMP LOCATIONS SHALL BE MARKED "SUITABLE FOR WET LOCATIONS" OR "SUITABLE FOR DAMP LOCATIONS."
13. ALL 15 AND 20 AMPERE, 120 AND 125 VOLT EXTERIOR RECEPTACLES SHALL BE PROTECTED BY AN "IN-USE" WEATHERPROOF COVER.
14. BATHROOM RECEPTACLES WILL BE SUPPLIED BY AT LEAST ONE 20 AMP BRANCH CIRCUITS.
15. ALL NEW NON-LOCKING-TYPE 125-VOLT, 15- AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES
16. COUNTER TOP RECEPTACLES IN THE KITCHEN, NOOK PANTRIES, DINING ROOMS AND SIMILAR AREAS SHALL BE SPACED SUCH THAT ANY POINT ALONG THE WALL AT THE COUNTER LEVEL IS NOT MORE THAN 2 FEET FROM A RECEPTACLE. ANY COUNTER SPACE MORE THAN 12" WIDE SHALL BE PROVIDED WITH A RECEPTACLE. PENINSULA OR ISLAND COUNTERS ARE TO BE PROVIDED WITH AT LEAST ONE RECEPTACLE, WHERE A RANGE, COUNTER-MOUNTED COOKING UNIT, OR SINK IS INSTALLED IN THE ISLAND WITH LESS THAN 12" OF COUNTER SPACE BEHIND THE FIXTURES, THE ISLAND OR PENINSULAR IS CONSIDERED AS TWO COUNTER SPACES. THESE RECEPTACLES ARE TO BE LOCATED NO MORE THAN 12" BELOW THE COUNTERTOP WHERE THE COUNTERTOP DOES NOT EXTEND MORE THAN 6" BEYOND ITS SUPPORT BASE. COUNTERTOPS INTERRUPTED BY RANGES, SINKS, OR OTHER APPLIANCES SHALL BE CONSIDERED SEPARATE COUNTERS.
17. GFCI PROTECTION IS REQUIRED FOR ALL 15A AND 20A, 125V RECEPTACLES INSTALLED IN THE FOLLWING LOCATIONS PER 2019 CEC ART 210.8(A)
 - SINKS - GFCI PROTECTION FOR RECEPTACLES IN REQUIRED WITHIN AN ARC MEASUREMENT OF 6FT. FROM THE OUTSIDE EDGE OF A SINK.
 - BATH TUBS OR SHOWER STALLS - GFCI PROTECTION IS REQUIRED FOR RECEPTACLES LOCATED WITHIN 6FT. OF THE OUTSIDE EDGE OF A BATHTUB OR SHOWER STALL.
 - LAUNDRY AREAS - RECEPTACLES INSTALLED IN LAUNDRY AREAS OF A DWELLING UNIT SHALL BE GFCI PROTECTED.
 - DWELLING UNIT DISHWASHERS - OUTLETS (NOT REQUIRED FOR A HARDWIRED APPLIANCE) SUPPLYING DISHWASHERS IN A DWELLING UNIT MUST BE GFCI PROTECTED PER 2019 CEC ART. CEC 210.8
18. ALL PERMANENTLY INSTALLED LUMINAIRES IN DWELLING UNITS SHALL BE HIGH EFFICACY AND HAVE MANUAL ON/OFF CONTROLS AND VACANCY SENSORS OR DIMMERS EXCEPT FOR HALLWAYS & CLOSETS LESS THAN 70 SQ. FT.
19. EXHAUST FANS MUST BE SWITCHED SEPARATE FROM LIGHTING OR UTILIZE A DEVICE WHERE LIGHTING CAN BE TURNED OFF WHILE THE FAN IS RUNNING. EXCLUDES KITCHEN EXHAUST HOODS.
20. UNDER CABINET MUST BE SWITCHED SEPARATE FROM ALL OTHER LIGHTING.
21. PERMANENTLY INSTALLED LIGHTING IN CABINETS MUST BE HIGH EFFICACY.
22. LIGHTING IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS MUST HAVE AT LEAST ONE LUMINAIR CONTROLLED BY VACANCY SENSORS.
23. PERMANENTLY INSTALLED OUTDOOR LIGHTING ATTACHED TO RESIDENCE OR OTHER BUILDING MUST BE HIGH EFFICACY AND MUST BE CONTROLLED BY A MANUAL ON AND OFF SWITCH AND ONE OF THESE CONTROL TYPES:
 - PHOTO-CONTROL AND MOTION SENSOR OR
 - PHOTO-CONTROL AND AUTOMATIC TIME SWITCH CONTROL OR ASTRONOMICAL TIME CLOCK THAT AUTOMATICALLY TURNS OUTDOOR LIGHTING OFF DURING DAYLIGHT HOURS OR
 - ENERGY MANAGMENT CONTROL SYSTEM (EMCS) THAT PROVIDES THE FUNCTIONALITY OF AN ASTRONOMICAL TIME CLOCK.

SMOKE ALARM NOTES:

1. ALL SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND INSTALLED IN ACCORDANCE WITH CODE SECTION R314 AND THE HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NFPA 72.
2. SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
 - IN EACH SLEEPING ROOM.
 - OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
3. WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT.
4. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING PROVIDED THAT SUCH WIRING IS FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BACKUP BATTERY.

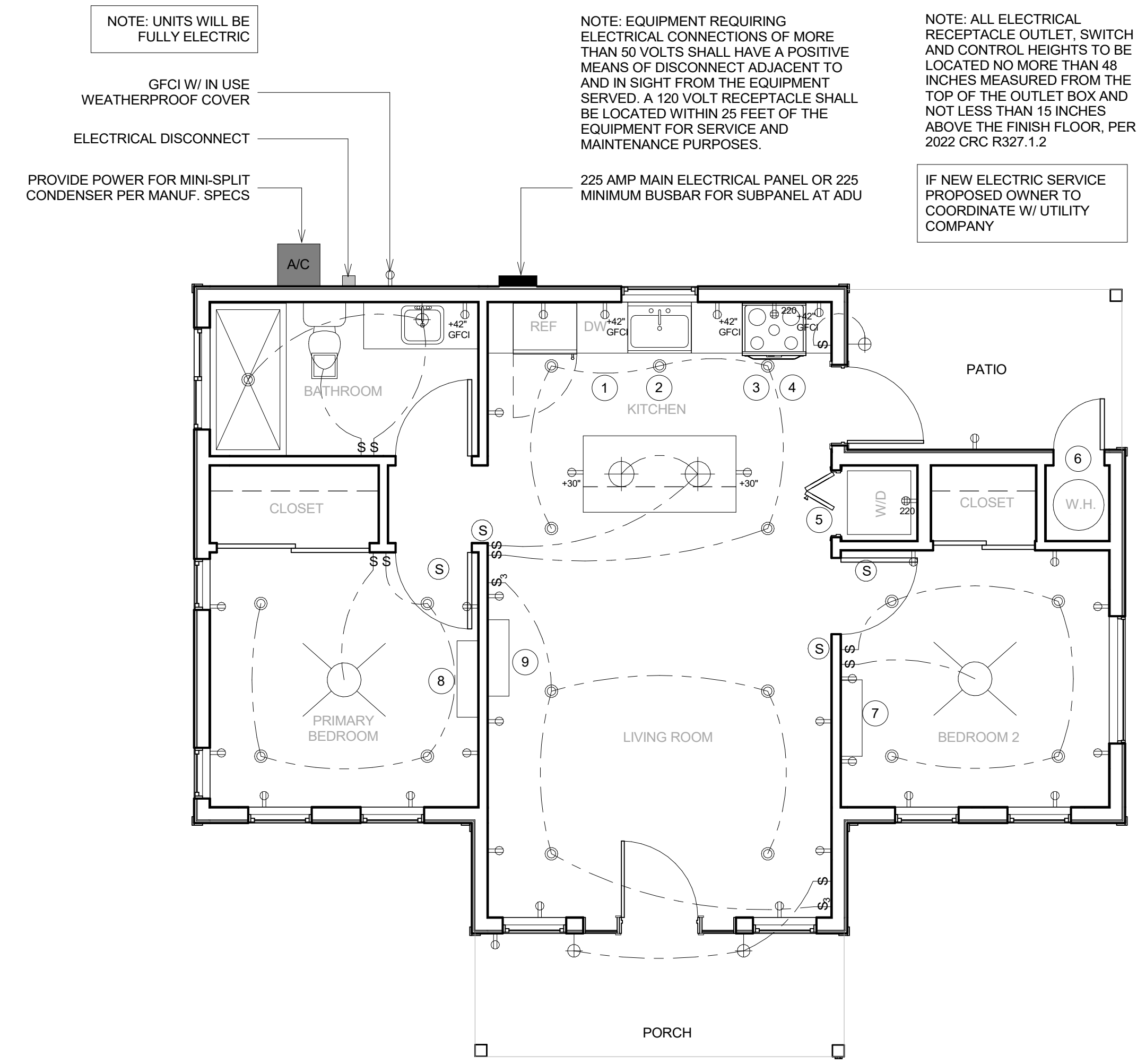
ENERGY COMPLIANCE:

- SOLAR READY BUILDINGS, SHALL MEET THE REQUIREMENTS OF SECTION 110.10 APPLICABLE TO THE BUILDING PROJECT
- ENERGY STORAGE SYSTEMS (ESS) READY. ALL SINGLE FAMILY RESIDENCES THAT INCLUDE ONE OR TWO DWELLING UNITS SHALL MEET THE FOLLOWING. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE:
 1. AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED:
 - A. ESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED-UP CAPACITY OF 60 AMPS AND A MINIMUM OF FOUR ESS-SUPPLIED BRANCH CIRCUITS, OR
 - B. A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD (SUBPANEL) THAT SUPPLIES THE BRANCH CIRCUITS IN SECTION 150.0(S)(2). ALL BRANCH CIRCUITS ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE PANEL PRIOR TO THE INSTALLATION OF AN ESS. THE TRADE SIZE OF THE RACEWAY SHALL BE NOT LESS THAN 1 INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED "SUBPANEL" SHALL INCLUDE ALL BACKED-UP LOAD CIRCUITS.
 2. A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT SHALL BE LOCATED NEAR THE PRIMARY EGRESS AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPING ROOM RECEPTACLE OUTLET.
 3. THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUSBAR RATING OF 225 AMPS
 4. SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF BACKUP POWER SOURCE.

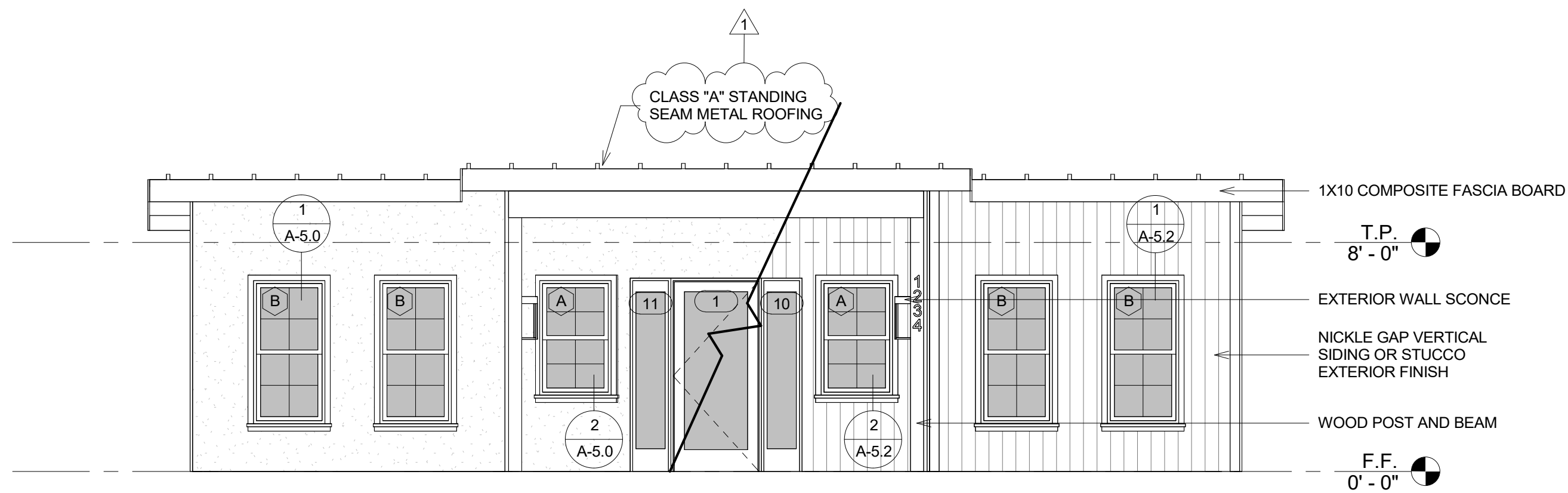
POWER PLAN KEY NOTES	
Note Number	Note Text
1	PROVIDE POWER FOR DISHWASHER
2	PROVIDE POWER AND SWITCH FOR GARBAGE DISPOSAL
3	PROVIDE POWER ELECTRIC RANGE PER MANUFACTURES SPECS
4	PROVIDE POWER FOR RANGE HOOD PER MANUF. SPECS. KITCHEN HOOD SHALL DELIVER VENTILATION AIRFLOW AT 100 OR MORE CFM
5	PROVIDE POWER FOR STACKED WASHER AND DRYER PER MANUF. SPECS
6	PROVIDE POWER FOR ELECTRIC STORAGE WATER HEATER PER MANUF. SPECS
7	PROVIDE POWER FOR MINI SPLIT AIR HANDLER PER MANUF. SPECS
8	PROVIDE POWER FOR MINI SPLIT AIR HANDLER PER MANUF. SPECS
9	PROVIDE POWER FOR MINI SPLIT AIR HANDLER PER MANUF. SPECS

- Ⓢ SMOKE ALARM
NOTE: WHERE ALARM IS INSTALLED WITHIN 20' OF A COOKING APPLIANCE PROVIDE A PHOTOELECTRIC ALARM PER CRC 314.3.3
- Ⓢ SINGLE POLE SWITCH
NOTE: PROVIDE DIMMER IN KITCHEN BEDROOMS & LIVING AREAS
- Ⓢ_{VS} SINGLE POLE VACANCY SENSOR SWITCH
- Ⓢ₃ 3-WAY SWITCH
- Ⓢ₂ DUPLEX OUTLET, ARCH FAULT PROTECTED & TAMPER PROOF
- 220 220 VOLT OUTLET
- Ⓢ_{GFCI} GFCI DUPLEX OUTLET, ARC FAULT & TAMPER PROOF.
NOTE: PROVIDE WEATHER-PROOF COVER FOR ALL EXTERIOR OUTLETS.
- Ⓢ_{6"} 6" RECESSED LED CAN
- Ⓢ_W SUITABLE FOR WET LOCATION 6" RECESSED LED CAN
- Ⓢ_W WALL MOUNTED LIGHT FIXTURE
- Ⓢ_{MS} WALL MOUNTED LIGHT FIXTURE W/ MOTION SENSOR
- Ⓢ_C CEILING MOUNTED LIGHT FIXTURE
- Ⓢ_W CEILING FAN/LIGHT COMBINATION
"W" DENOTES WET LOCATION RATED FAN
- Ⓢ_W PANASONIC WHISPER CEILING VENTILATION FAN/LIGHT COMBO W/ HUMIDISTAT. NOTE: NEWLY INSTALLED BATHROOM EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND SHALL BE DUCTED TO TERMINATE TO THE OUTSIDE OF THE BUILDING. BATHROOM EXHAUST FAN SHALL DELIVER VENTILATION AIRFLOW AT 50 OR MORE CFM

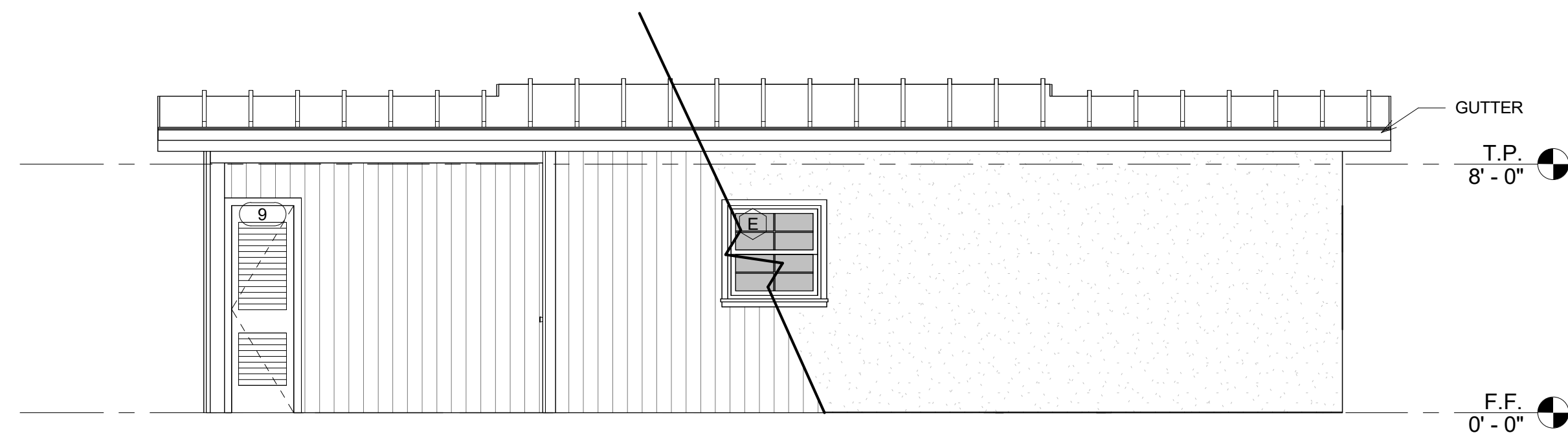
POWER PLAN LEGEND
1/4" = 1'-0"



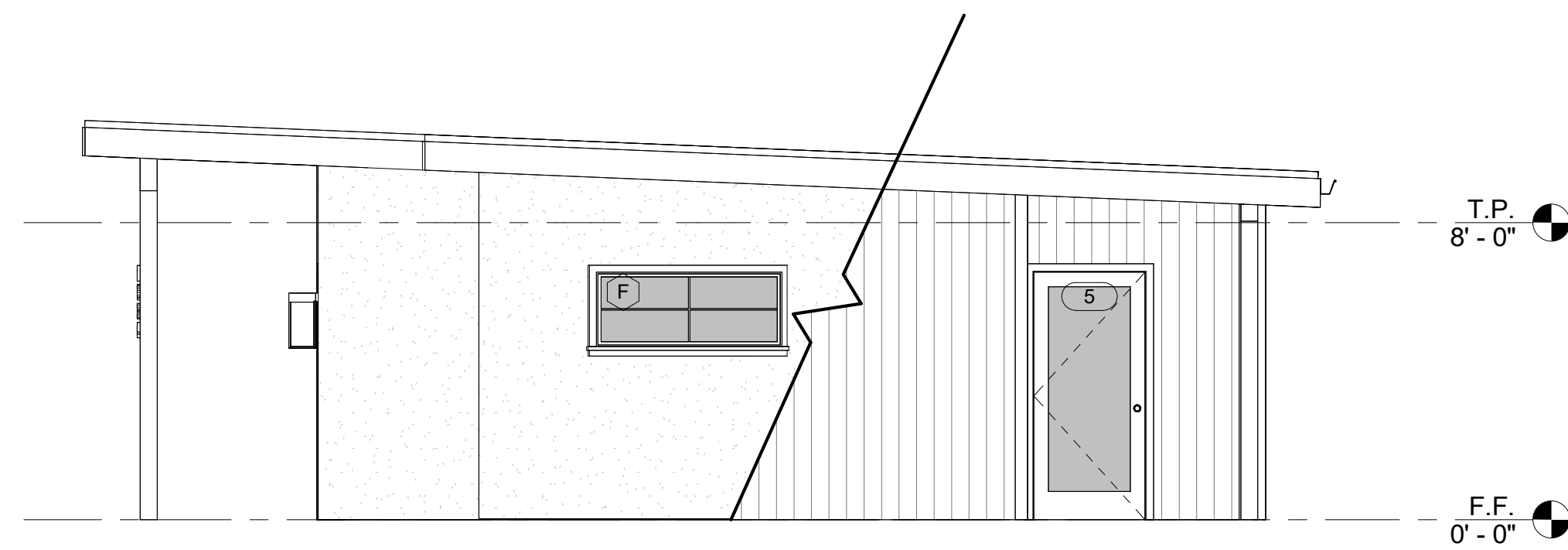
MODEL B2 POWER PLAN
1/4" = 1'-0"



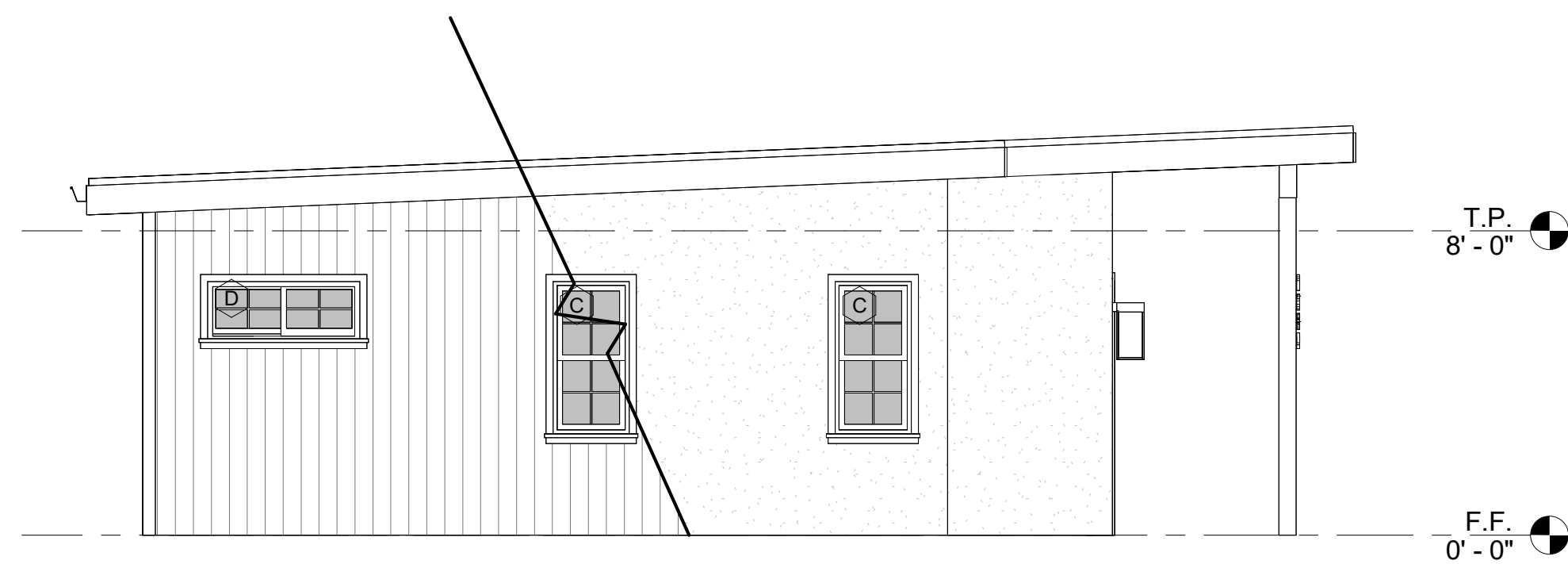
1 MODEL B2 FRONT ELEVATION
1/4" = 1'-0"



3 MODEL B2 REAR ELEVATION
1/4" = 1'-0"



4 MODEL B2 RIGHT SIDE ELEVATION
1/4" = 1'-0"



2 MODEL B2 LEFT SIDE ELEVATION
1/4" = 1'-0"

MATERIALS & CONSTRUCTION METHODS FOR EXTERIOR WILDFIRE EXPOSURE NOTES:

IF LOCATED WITHIN A CA WUI ZONE, PROJECT SHALL COMPLY WITH THE FOLLOWING,

- PRIOR TO BUILDING PERMIT FINAL APPROVAL, THE PROPERTY SHALL BE IN COMPLIANCE WITH THE VEGETATION MANAGEMENT REQUIREMENTS PRESCRIBED IN CALIFORNIA FIRE CODE SECTION 51182.

- THE FOLLOWING EXTERIOR COVERING MATERIALS AND/OR ASSEMBLIES SHALL COMPLY WITH SECTION R337.7:

- EXTERIOR WALL COVERING MATERIAL: PROJECT COMPLIES WITH SECTION 1 OF R337.7.3. EXTERIOR WALL FINISH SHALL BE A NON COMBUSTIBLE MATERIAL.

- ENCLOSED ROOF EAVES: PROJECT COMPLIES WITH SECTION 1 OR 5 OF R337.7.6. UNDERSIDE OF ENCLOSED ROOF EAVES SHALL BE A NONCOMBUSTIBLE MATERIAL; OR HAVE ONE LAYER OF 5/8 INCH TYPE X GYPSUM SHEATHING APPLIED BEHIND EXTERIOR COVERING OR CLADDING ON THE UNDERSIDE OF THE RAFTER TAILS OR SOFFIT

- PORCH AND PATIO CEILINGS: PROJECT COMPLIES WITH SECTION 1 OR 5 OF R337.7.7. UNDERSIDE OF ENCLOSED PORCH CEILINGS SHALL BE A NONCOMBUSTIBLE MATERIAL; OR HAVE ONE LAYER OF 5/8 INCH TYPE X GYPSUM SHEATHING APPLIED BEHIND EXTERIOR COVERING ON THE UNDERSIDE OF THE CEILING

- EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE ROOF, AND TERMINATE AT 2 INCH NOMINAL SOLID WOOD BLOCKING BETWEEN RAFTERS AT ALL ROOF OVERHANGS, OR IN THE CASE OF ENCLOSED EAVES, TERMINATE AT ENCLOSURE.

- EXTERIOR WINDOWS, SKYLIGHTS, AND EXTERIOR GLAZED DOOR ASSEMBLIES SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS:

1. BE CONSTRUCTED OF MULTIPANE GLAZING WITH A MIN. OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION R308
2. BE CONSTRUCTED OF GLASS BLOCK UNITS
3. HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257
4. BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2

- EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING:

1. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF NONCOMBUSTIBLE MATERIAL
2. THE EXTERIOR SURFACE OR CLADDING SHALL BE OF IGNITION RESISTANT MATERIAL
3. THE EXTERIOR DOOR SHALL BE CONSTRUCTED OF SOLID CORE WOOD THAT COMPLIES WITH THE FOLLOWING REQUIREMENTS:
 - STILES AND RAILS SHALL NOT BE LESS THAN 1 3/8 INCHES THICK
 - PANELS SHALL NOT BE LESS THAN 1 1/4 INCHES THICK, EXCEPT FOR EXTERIOR PERIMETER OF THE PANEL THAT SHALL BE PERMITTED TO TAPER TO A TONGUE NOT LESS THAN 3/8 INCH THICK
4. THE EXTERIOR DOOR ASSEMBLY SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 252
5. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SECTION R337.3.1
6. THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1

- GLAZING IN EXTERIOR DOORS SHALL COMPLY WITH SECTION R337.8.2.1

- THE WALKING SURFACE MATERIAL OF DECKS, PORCHES, BALCONIES AND STAIRS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R337.9

1. A MINIMUM OF A 6-INCH METAL FLASHING, APPLIED VERTICALLY ON THE EXTERIOR OF THE WALL SHALL BE INSTALLED AT ALL DECK-TO-WALL INTERSECTIONS.

- THE WALKING SURFACE MATERIAL OF DECKS, PORCHES, BALCONIES AND STAIRS SHALL BE CONSTRUCTED WITH ONE OF THE FOLLOWING MATERIALS:

1. MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SECTION R337.9.4 WHEN TESTED IN ACCORDANCE WITH BOTH ASTM E2632 AND ASTM E2726.
2. IGNITION-RESISTANT MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SECTION R337.9.4
3. MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF BOTH SFM STANDARD 12-7A-4 AND SECTION R337.4.3.
4. EXTERIOR FIRE-RETARDANT TREATED WOOD
5. NONCOMBUSTIBLE MATERIAL
6. ANY MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-4A WHEN ATTACHED EXTERIOR WALL COVERING IS ALSO COMPOSED OF NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIAL.
7. ANY MATERIAL THAT COMPLIES WITH THE PERFORMANCE REQUIREMENTS OF SECTION R337.9.5 WHEN TESTED IN ACCORDANCE WITH ASTM E2632 AND WHEN ATTACHED EXTERIOR WALL COVERING IS ALSO COMPOSED OF ONLY NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIALS.

ADDRESS NUMBER NOTES:

- THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLACED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.

- ADDRESS IDENTIFICATION CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND AND BE INTERNALLY OR EXTERNALLY ILLUMINATED. ADDRESS SHALL BE ILLUMINATED BY PREMISES' ELECTRICAL SUPPLY.

- ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL NOT BE SPELLED OUT.

- EACH CHARACTER SHALL BE NOT LESS THAN 4 INCHES IN HEIGHT WITH A STROKE WIDTH OF NOT LESS THAN 0.5 INCH.

- WHERE REQUIRED BY THE FIRE CODE OFFICIAL, ADDRESS IDENTIFICATION SHALL BE PROVIDED IN ADDITIONAL APPROVED LOCATIONS TO FACILITATE EMERGENCY RESPONSE.

- WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING ADDRESS CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. ADDRESS IDENTIFICATION SHALL BE MAINTAINED. CRC 2022 R319

No.	Date	Description
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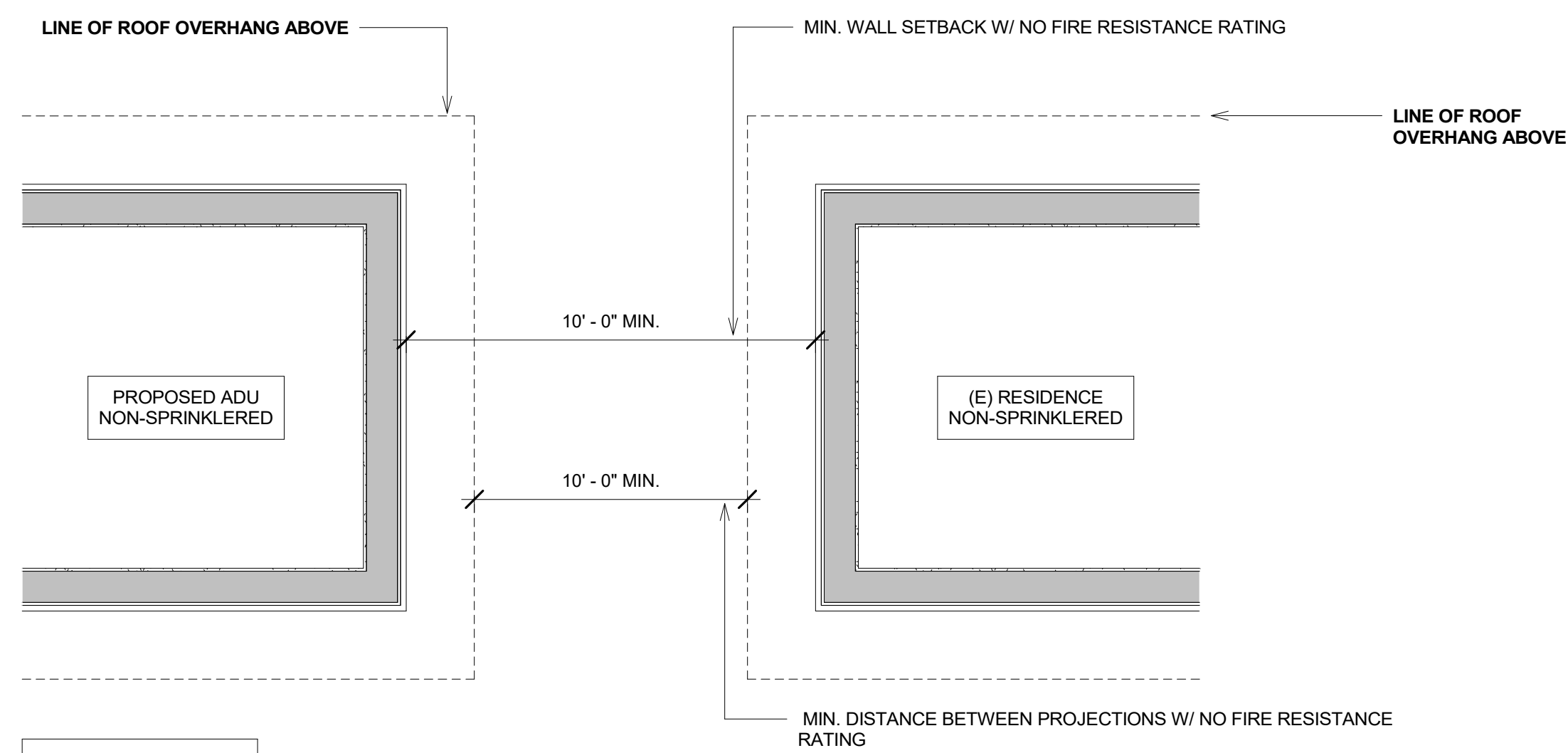
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MODEL B2
EXTERIOR
ELEVATIONS

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1/4" = 1'-0"
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NOTE: DEVIATIONS FROM THE SHOWN MINIMUM REQUIRED FIRE SEPARATION DISTANCES WILL REQUIRE APPLICANT TO PROVIDE/SHOW THE ASSUMED PROPERTY LINE BETWEEN THE PRIMARY DWELLING AND PROPOSED A.D.U. AND TO COMPLY WITH THE FIRE SEPARATION REQUIREMENTS OF CRC 2022 TABLES R302.1(1) AND R302.1(2) FOR THE WALLS, PROJECTIONS, ETC.

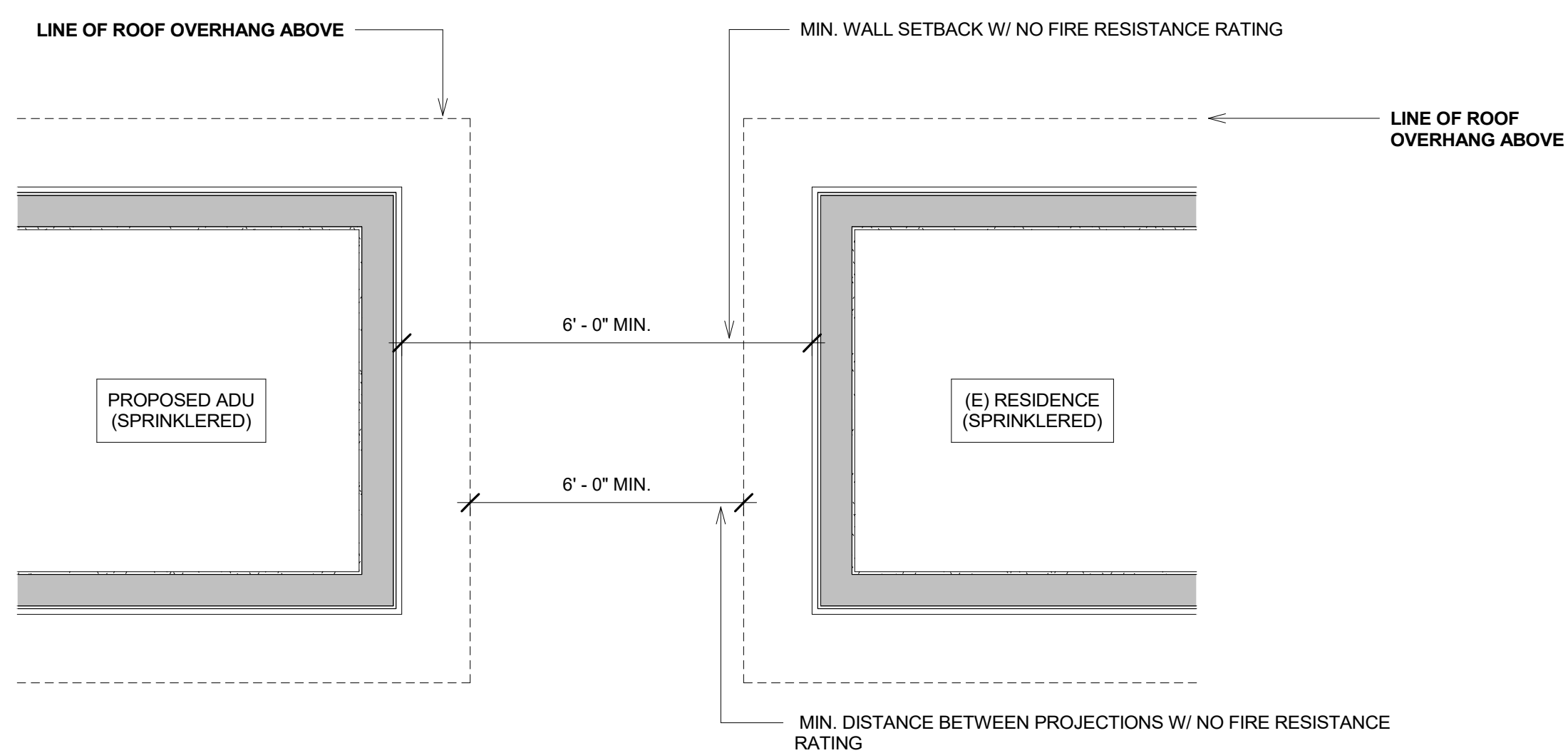
FIREBLOCKING NOTES (IF REQUIRED):

- FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAMED CONSTRUCTION IN THE FOLLOWING LOCATIONS:
- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
 1. VERTICALLY AT THE CEILING AND FLOOR LEVELS.
 2. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET (3048 MM).
- AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILING AND COVE CEILING.
- IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.
- AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION.
- FIREBLOCKING MATERIALS SHALL COMPLY WITH R302.11.1



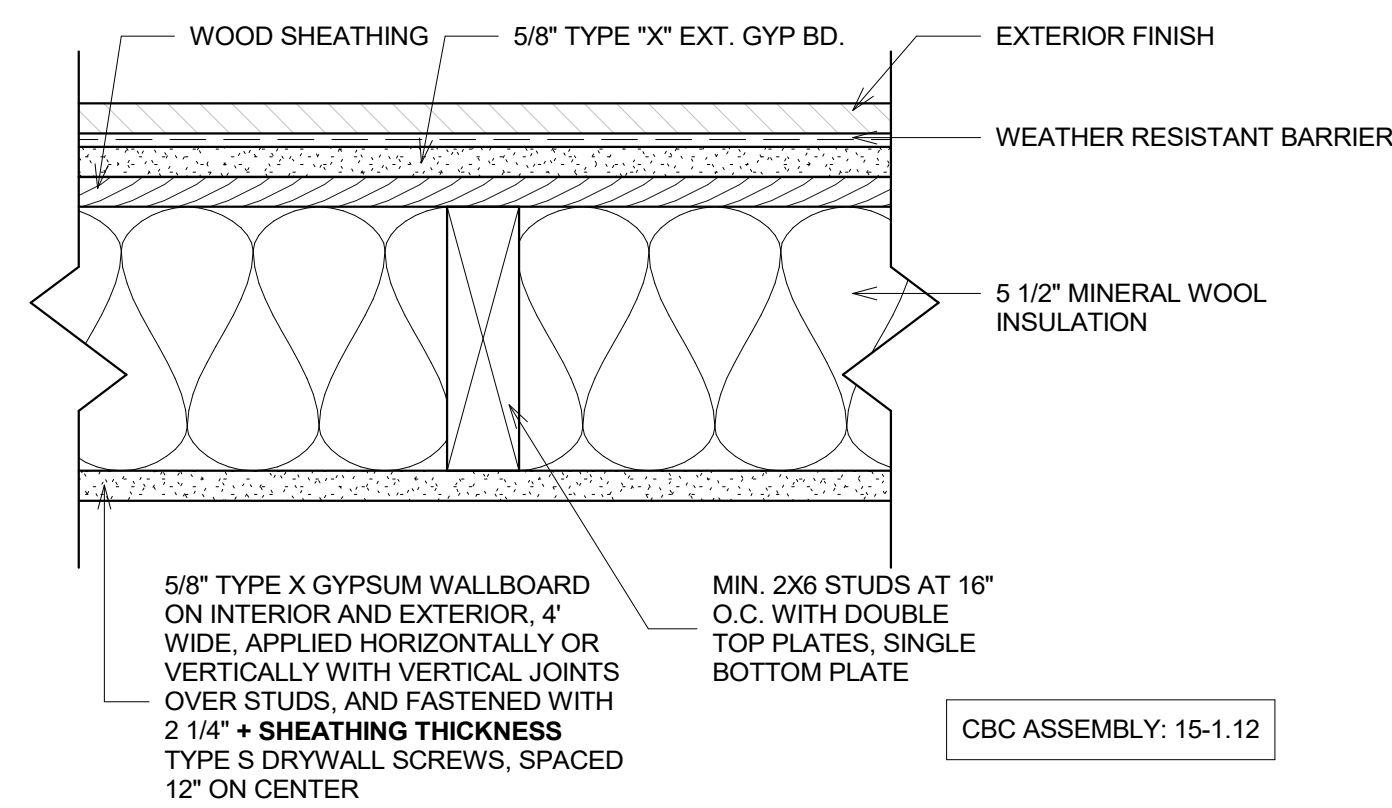
CRC2022 TABLE 302.1(1)

NON SPRINKLERED FIRE SEPARATION KEY
1/2" = 1'-0"

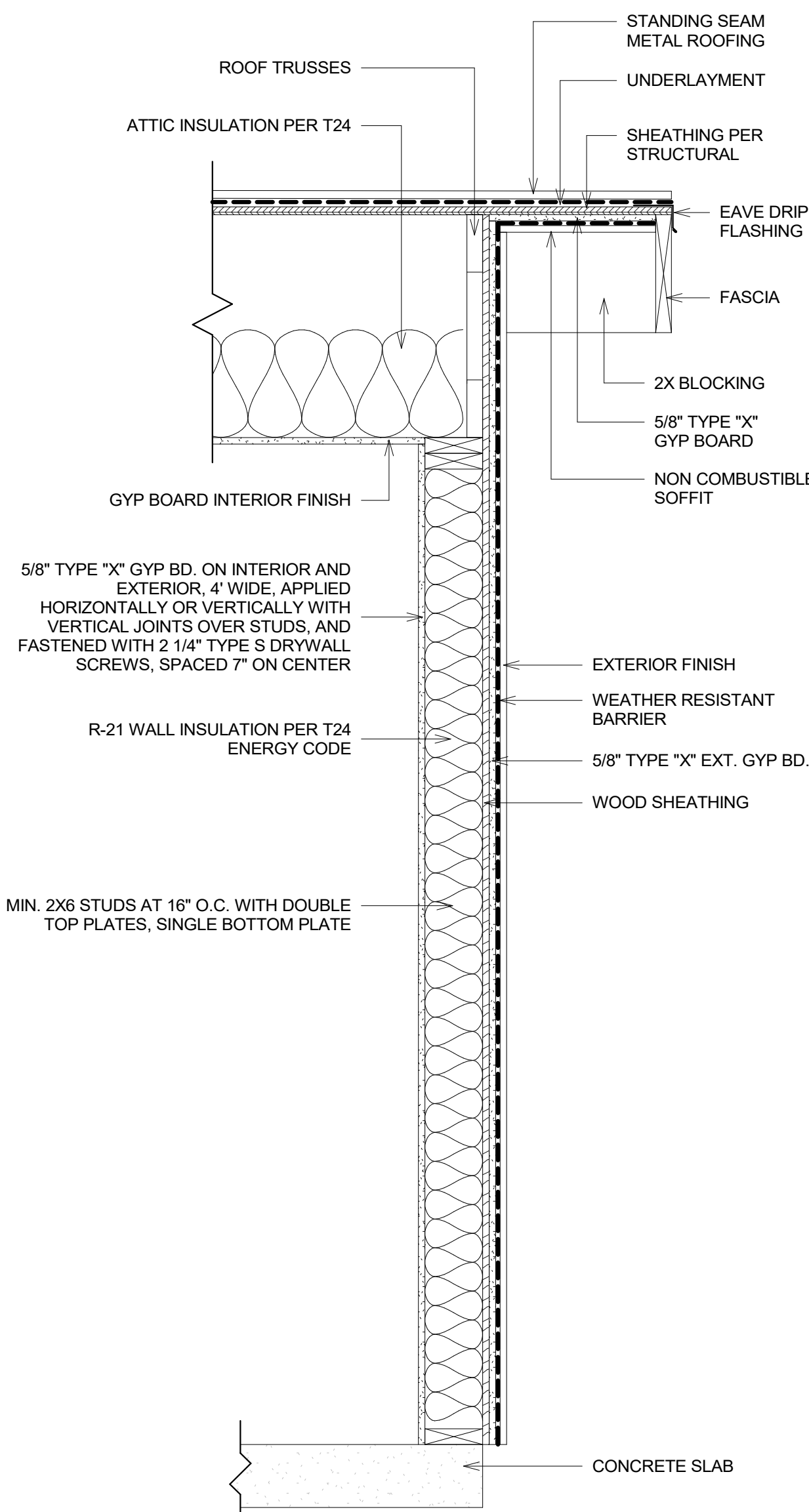


CRC2022 TABLE 302.1(2)

SPRINKLERED FIRE SEPARATION KEY
1/2" = 1'-0"



1 HOUR EXTERIOR WALL
3" = 1'-0"



MODEL A2 1 HOUR FIRE WALL SECTION
1" = 1'-0"

TABLE R302.1(1) EXTERIOR WALLS

EXTERIOR WALL ELEMENT	MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour—tested in accordance with ASTM E119, UL 263 or Section 703.3 of the California Building Code with exposure from both sides
	Not fire-resistance rated	0 hours
Projections	Not allowed	NA
	Fire-resistance rated	1 hour on the underside, or heavy timber, or fire-retardant-treated wood ^{a, b}
Openings in walls	Not fire-resistance rated	0 hours
	25% maximum of wall area	0 hours
Penetrations	Unlimited	0 hours
	All	Comply with Section R302.4
	None required	3 feet

For SI: 1 foot = 304.8 mm.

NA = Not Applicable.

- a. The fire-resistance rating shall be permitted to be reduced to 0 hours on the underside of the eave overhang if fireblocking is provided from the wall top plate to the underside of the roof sheathing.
- b. The fire-resistance rating shall be permitted to be reduced to 0 hours on the underside of the rake overhang where gable vent openings are not installed.

TABLE R302.1(2) EXTERIOR WALLS—DWELLINGS AND ACCESSORY BUILDINGS WITH AUTOMATIC RESIDENTIAL FIRE SPRINKLER PROTECTION

EXTERIOR WALL ELEMENT	MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour—tested in accordance with ASTM E119, UL 263 or Section 703.2.2 of the California Building Code with exposure from the outside
	Not fire-resistance rated	0 hours
Projections	Not allowed	NA
	Fire-resistance rated	1 hour on the underside, or heavy timber, or fire-retardant-treated wood ^{a, c}
Openings in walls	Not fire-resistance rated	0 hours
	Unlimited	0 hours
Penetrations	All	Comply with Section R302.4
		None required

For SI: 1 foot = 304.8 mm.

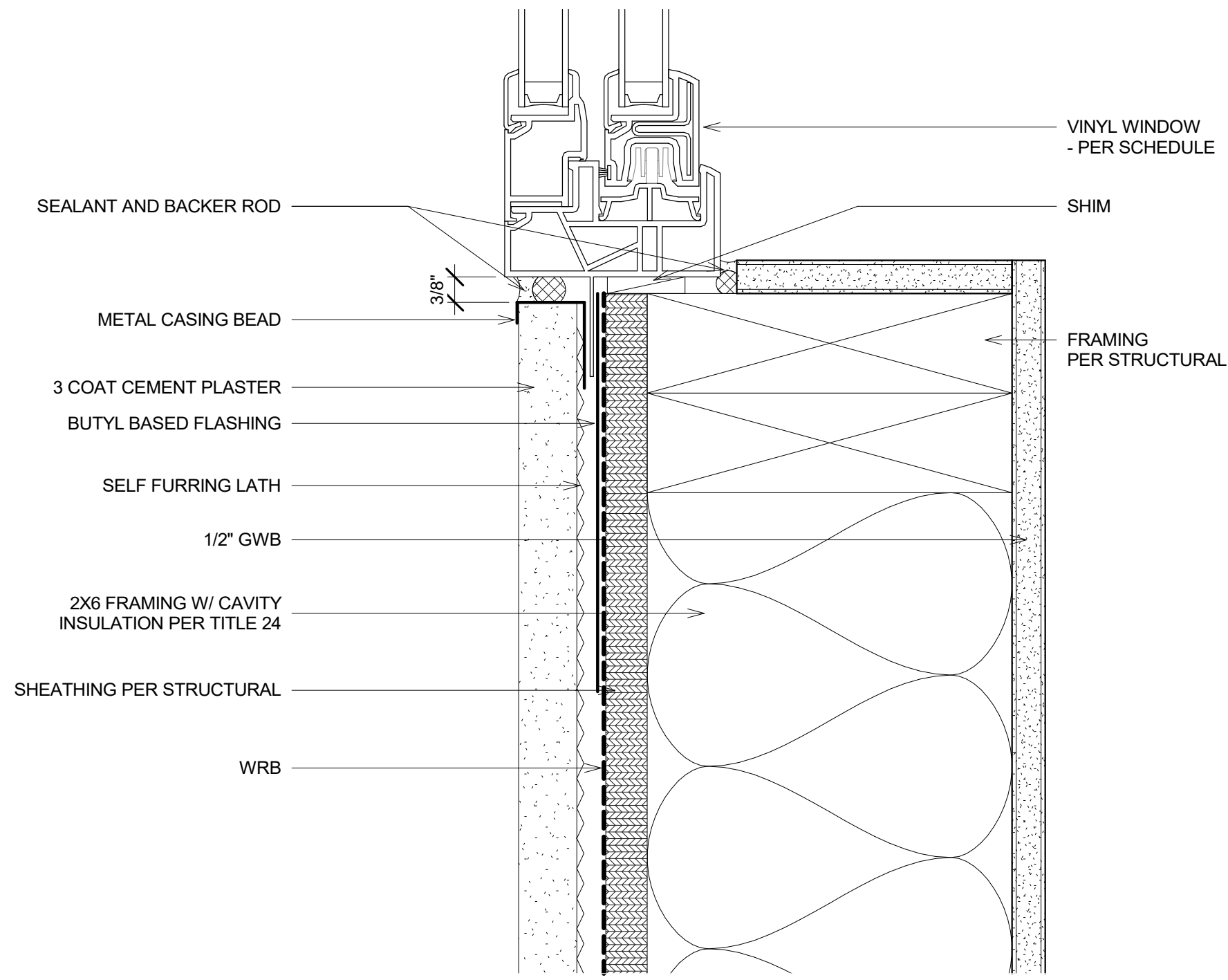
NA = Not Applicable.

- a. For residential subdivisions where all dwellings are equipped throughout with an automatic sprinkler system installed in accordance with Section R313, the fire separation distance for exterior walls not fire-resistance rated and for fire-resistance-rated projections shall be permitted to be reduced to 0 feet, and unlimited unprotected openings and penetrations shall be permitted, where the adjoining lot provides an open setback yard that is 6 feet or more in width on the opposite side of the property line.
- b. The fire-resistance rating shall be permitted to be reduced to 0 hours on the underside of the eave overhang if fireblocking is provided from the wall top plate to the underside of the roof sheathing.
- c. The fire-resistance rating shall be permitted to be reduced to 0 hours on the underside of the rake overhang where gable vent openings are not installed.

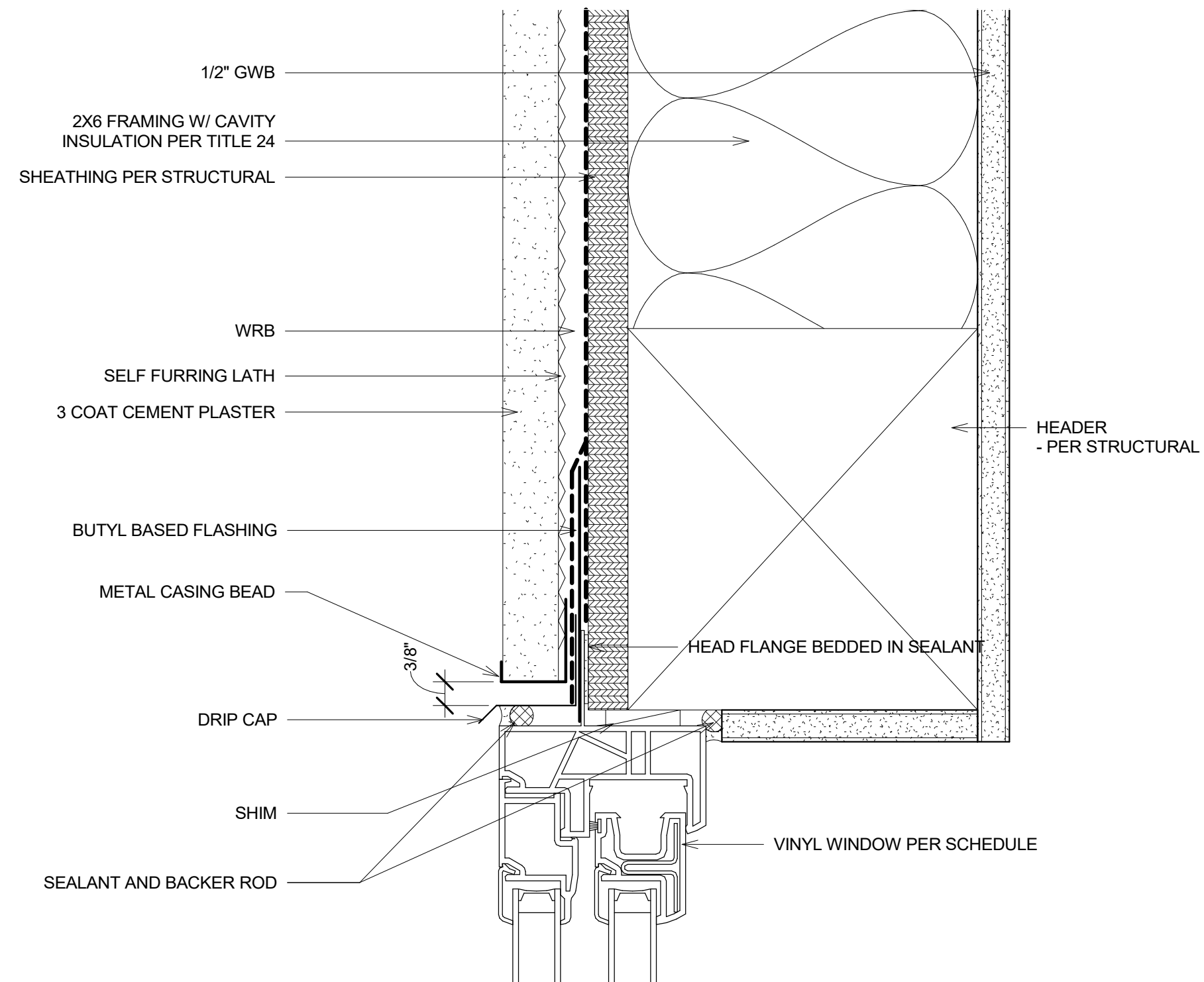
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MODEL B2 FIRE DETAILS

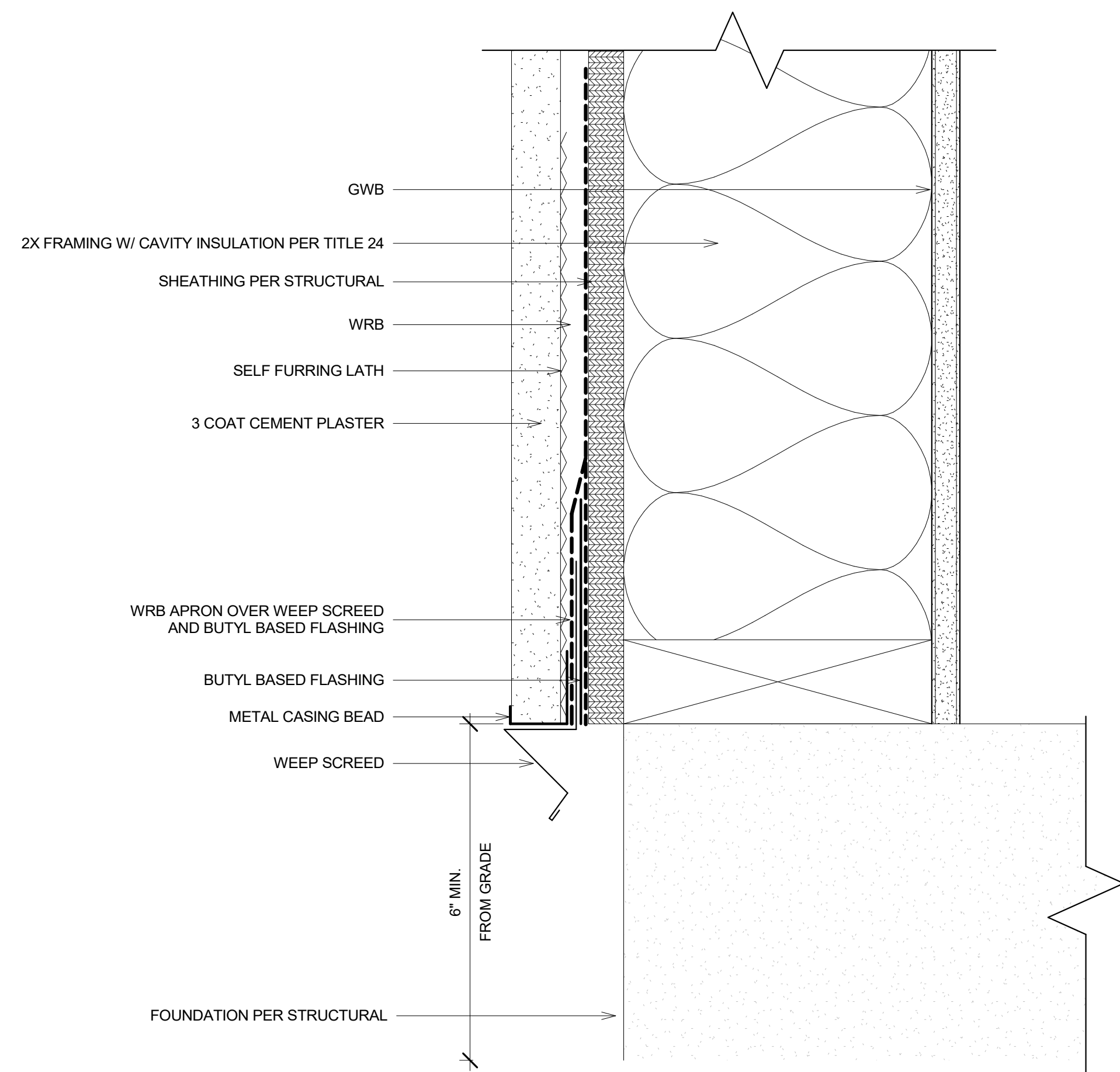
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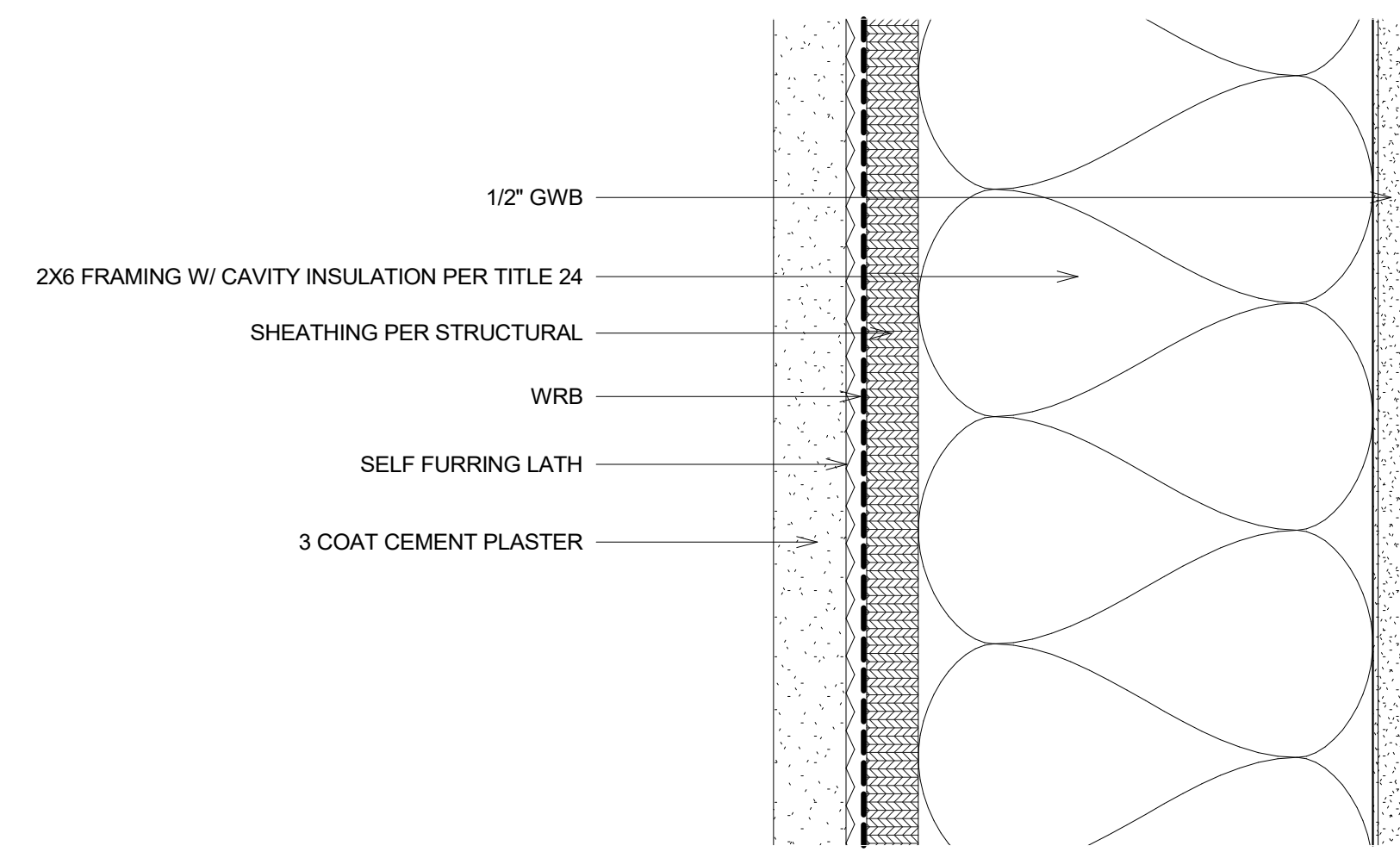
② STUCCO @ VINYL WINDOW SILL
6" = 1'-0"



① STUCCO @ VINYL WINDOW HEAD
6" = 1'-0"



④ STUCCO @ WALL BASE
6" = 1'-0"



③ STUCCO WALL SECTION
6" = 1'-0"

No.	Date	Description

Sheet Name:
STUCCO SECTION DETAILS

Scale:
6" = 1'-0"

Date:
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No.	Date	Description

Sheet Name:
 STUCCO PLAN
 DETAILS

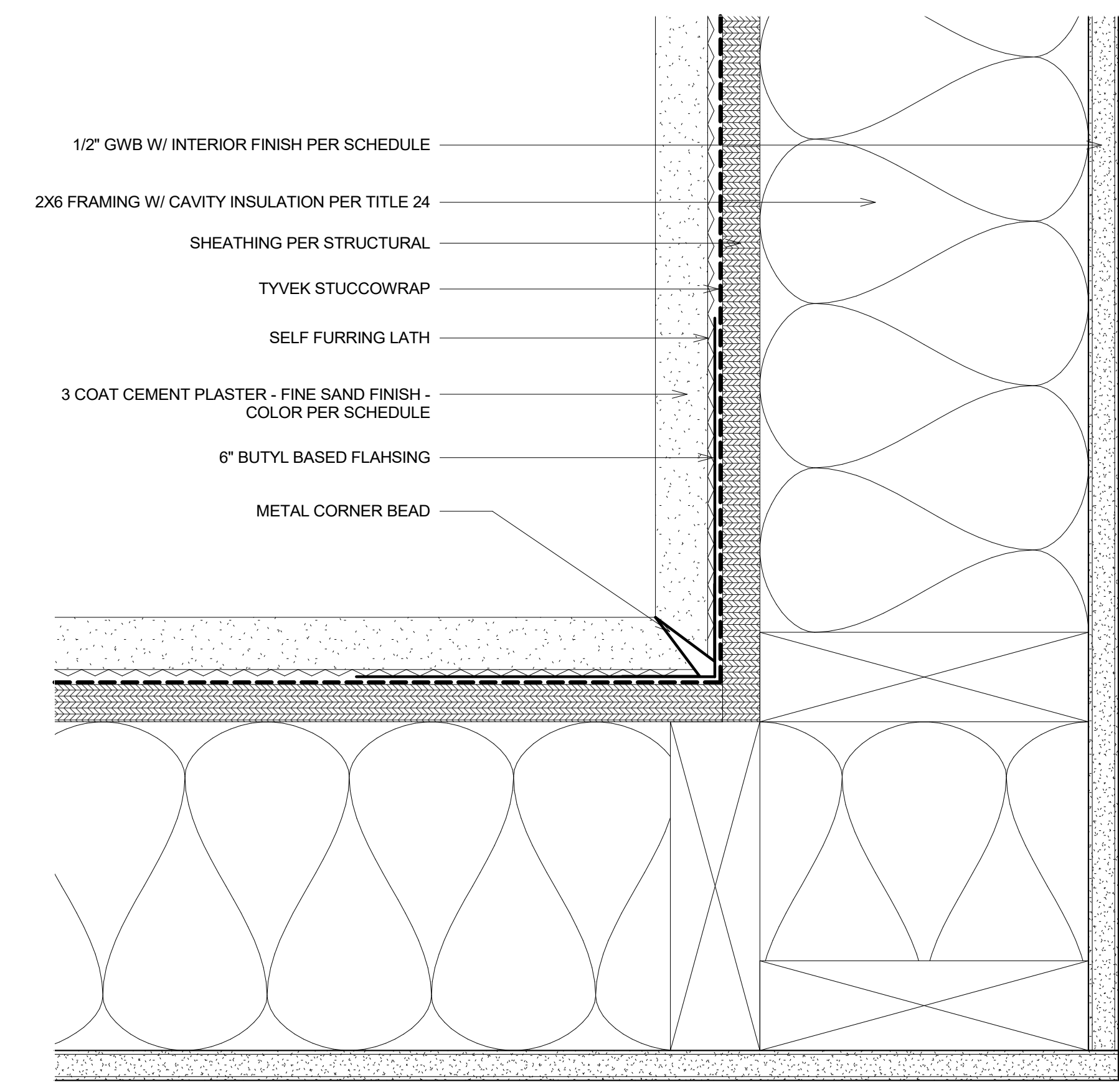
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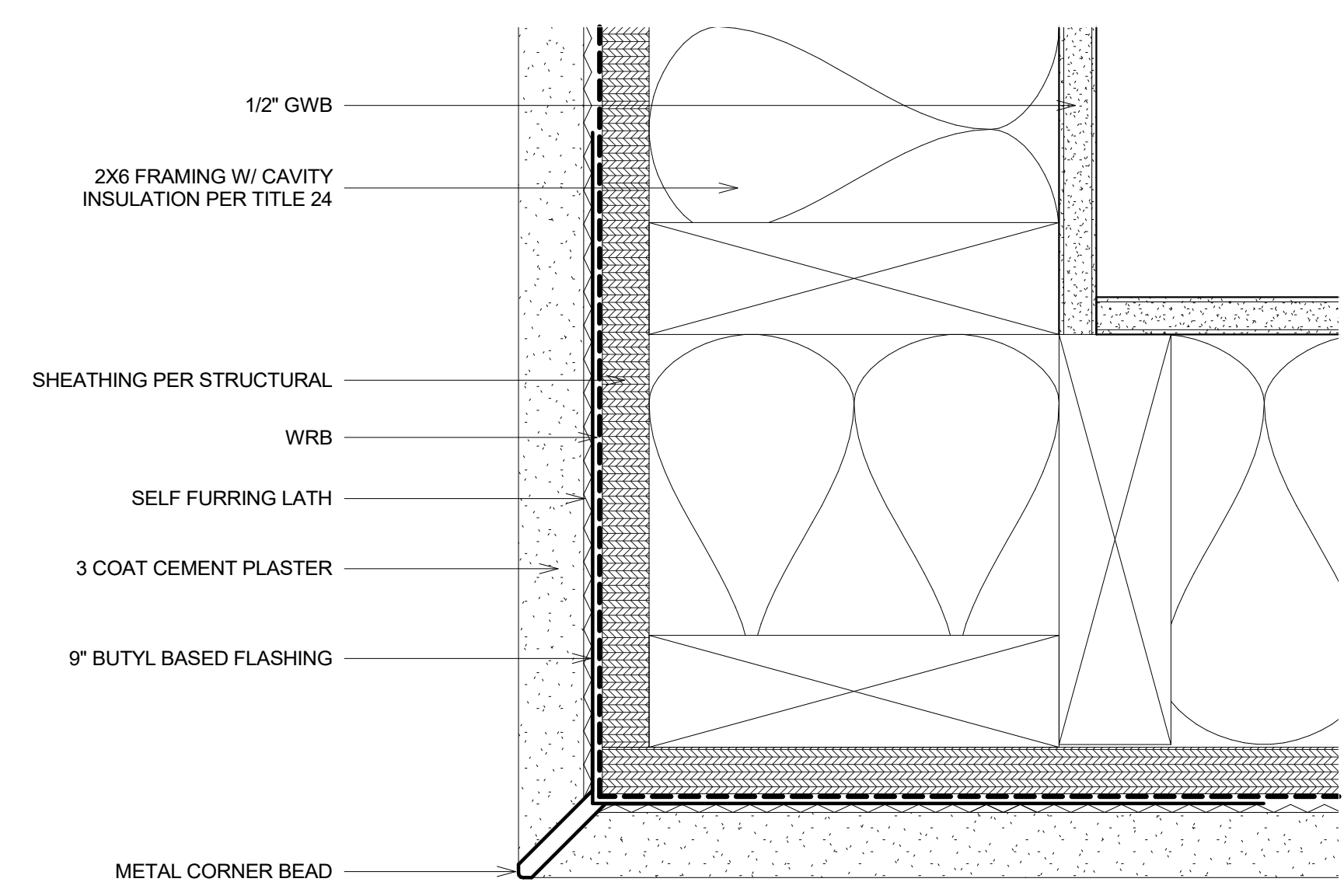
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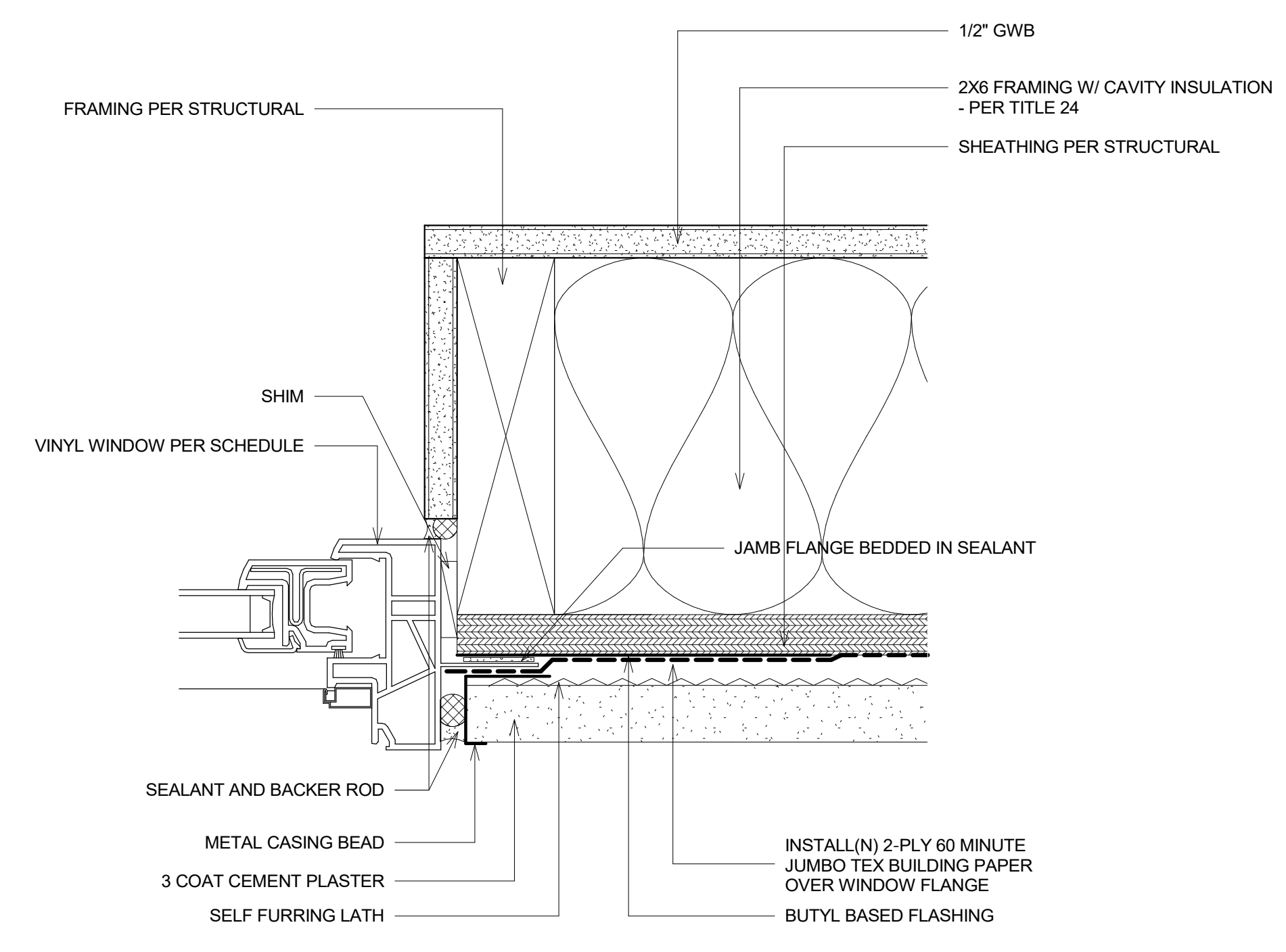
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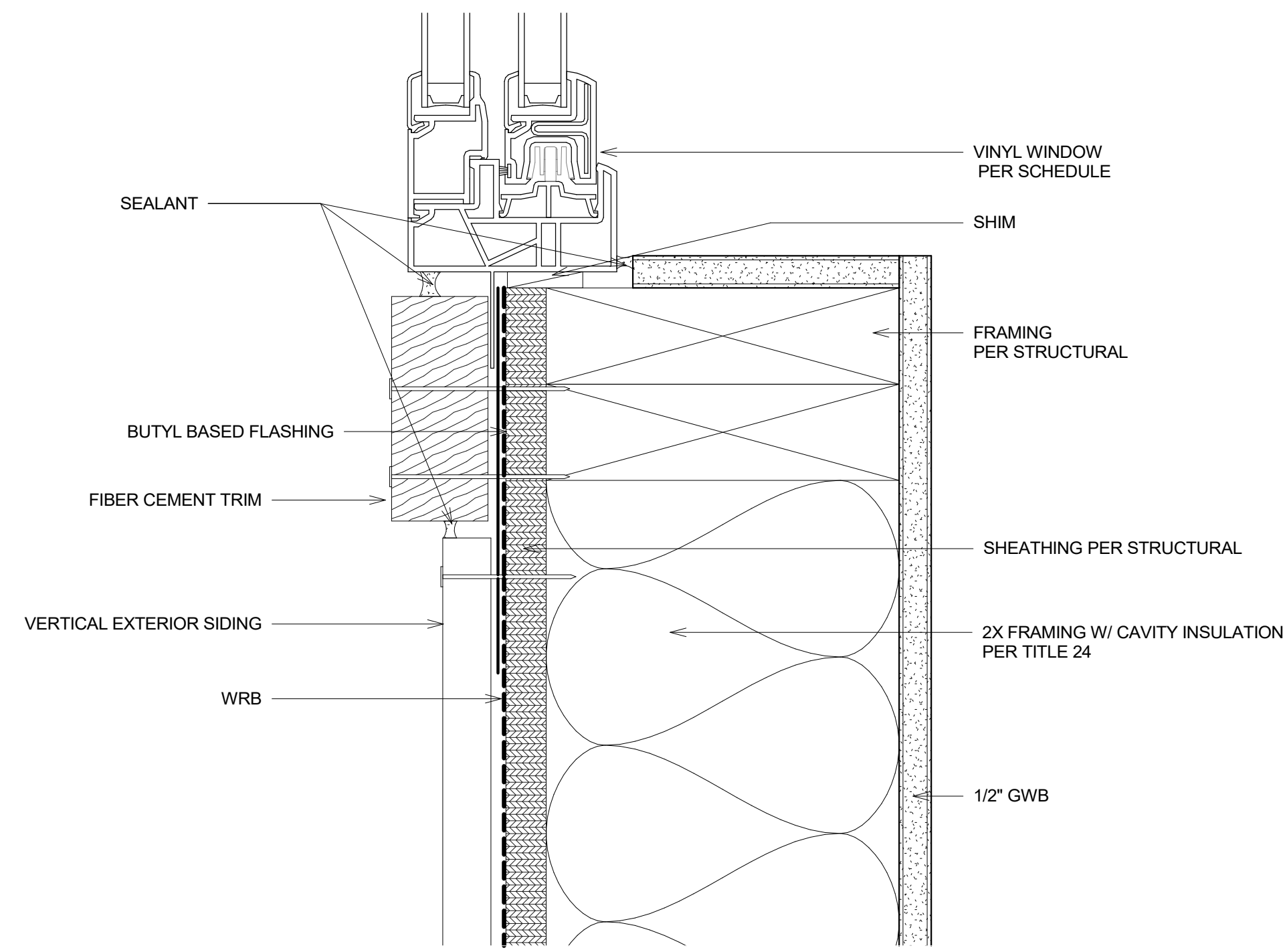
① STUCCO @ INSIDE CORNER
 6" = 1'-0"



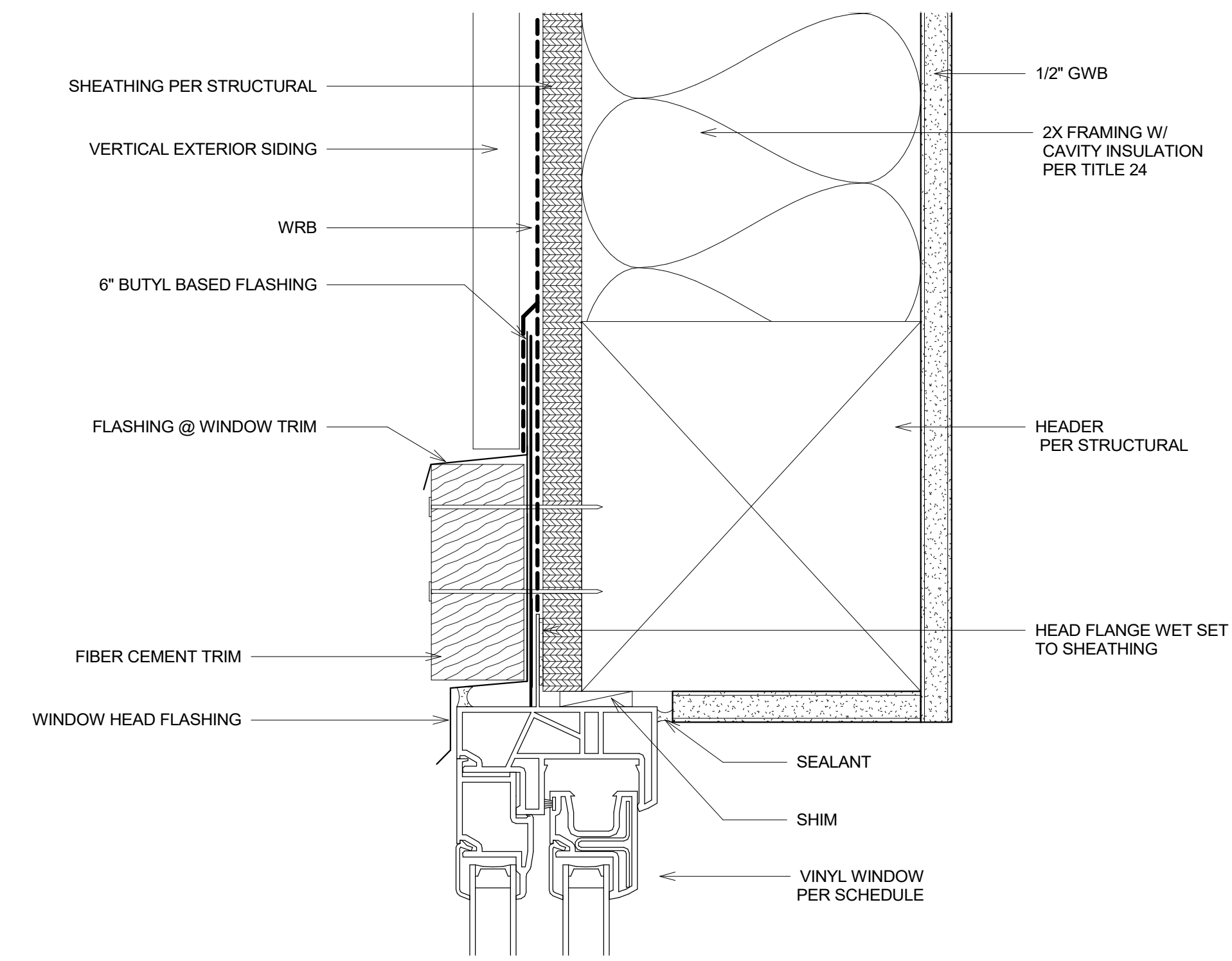
② STUCCO @ OUTSIDE CORNER
 6" = 1'-0"



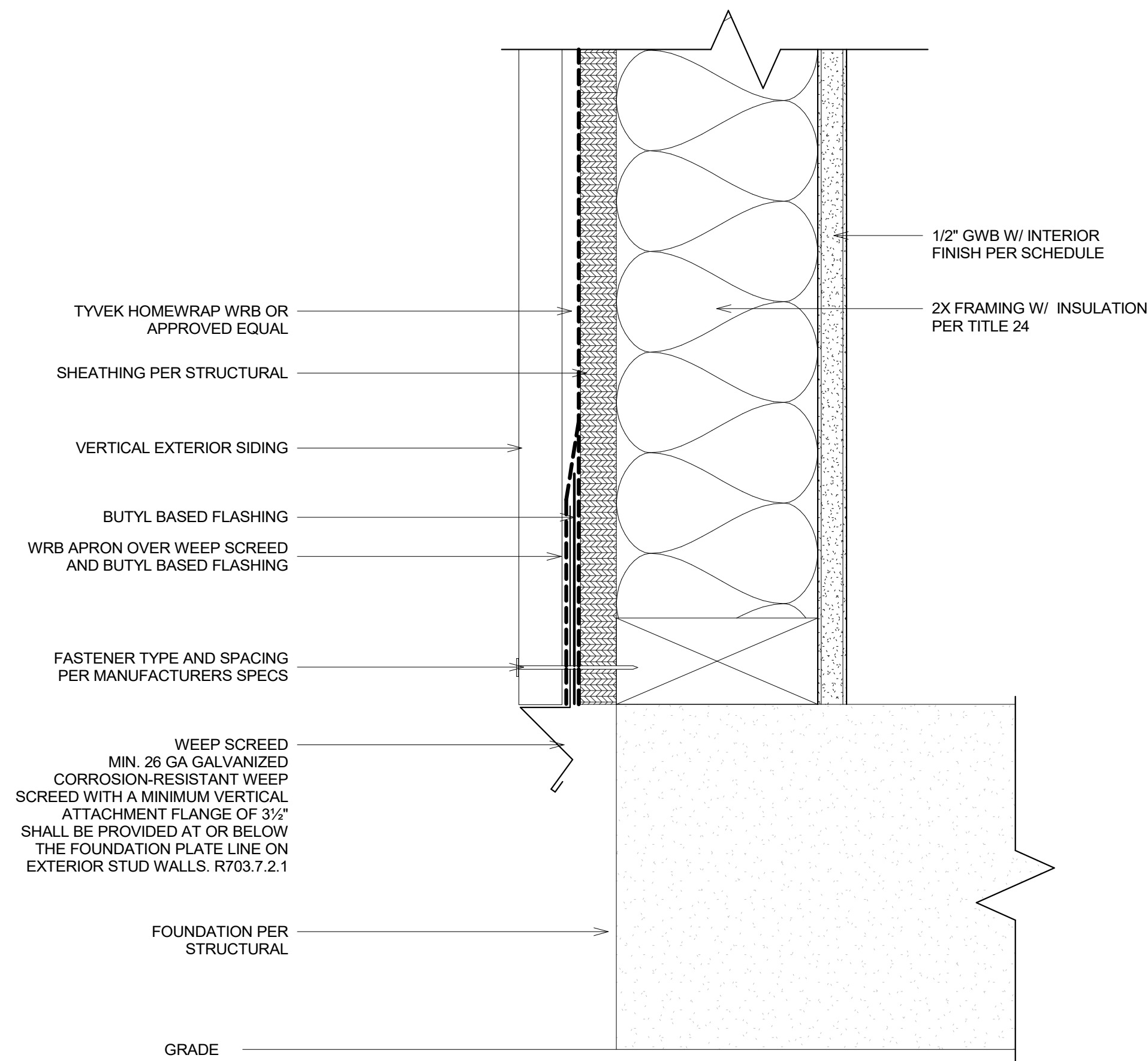
③ STUCCO @ VINYL WINDOW JAMB
 6" = 1'-0"



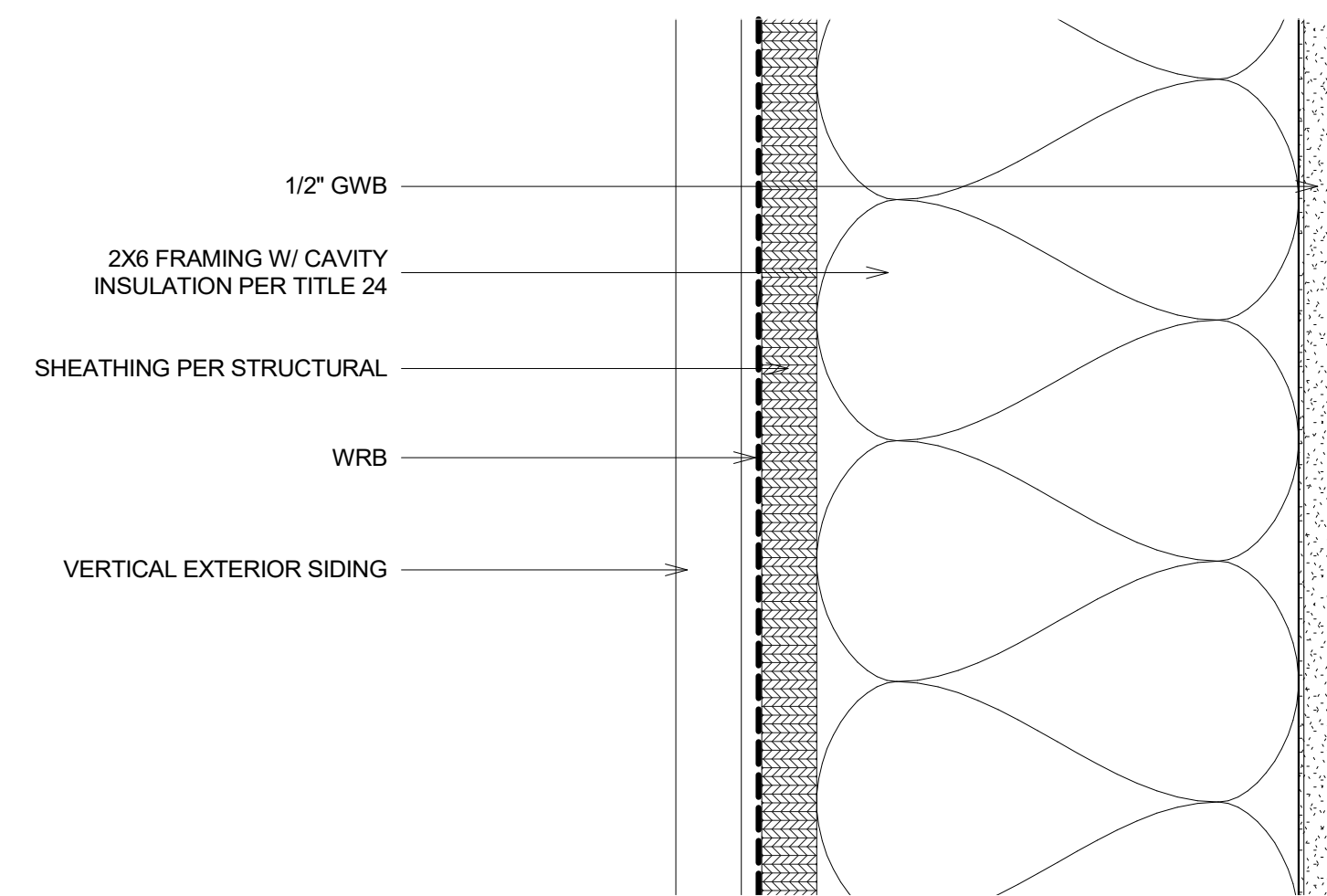
② VERTICAL SIDING @ VINYL WINDOW SILL
6" = 1'-0"



① VERTICAL SIDING @ VINYL WINDOW HEAD
6" = 1'-0"



④ VERTICAL SIDING @ WALL BASE
6" = 1'-0"



③ VERTICAL SIDING WALL SECTION
6" = 1'-0"

No.	Date	Description

Sheet Name:
VERTICAL SIDING SECTION DETAILS

Scale:
6" = 1'-0"
Date:
NOV 2025
Drawn By:
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Approved By:
LM
Sheet Number:

No.	Date	Description

Sheet Name:
 VERTICAL SIDING PLAN
 DETAILS

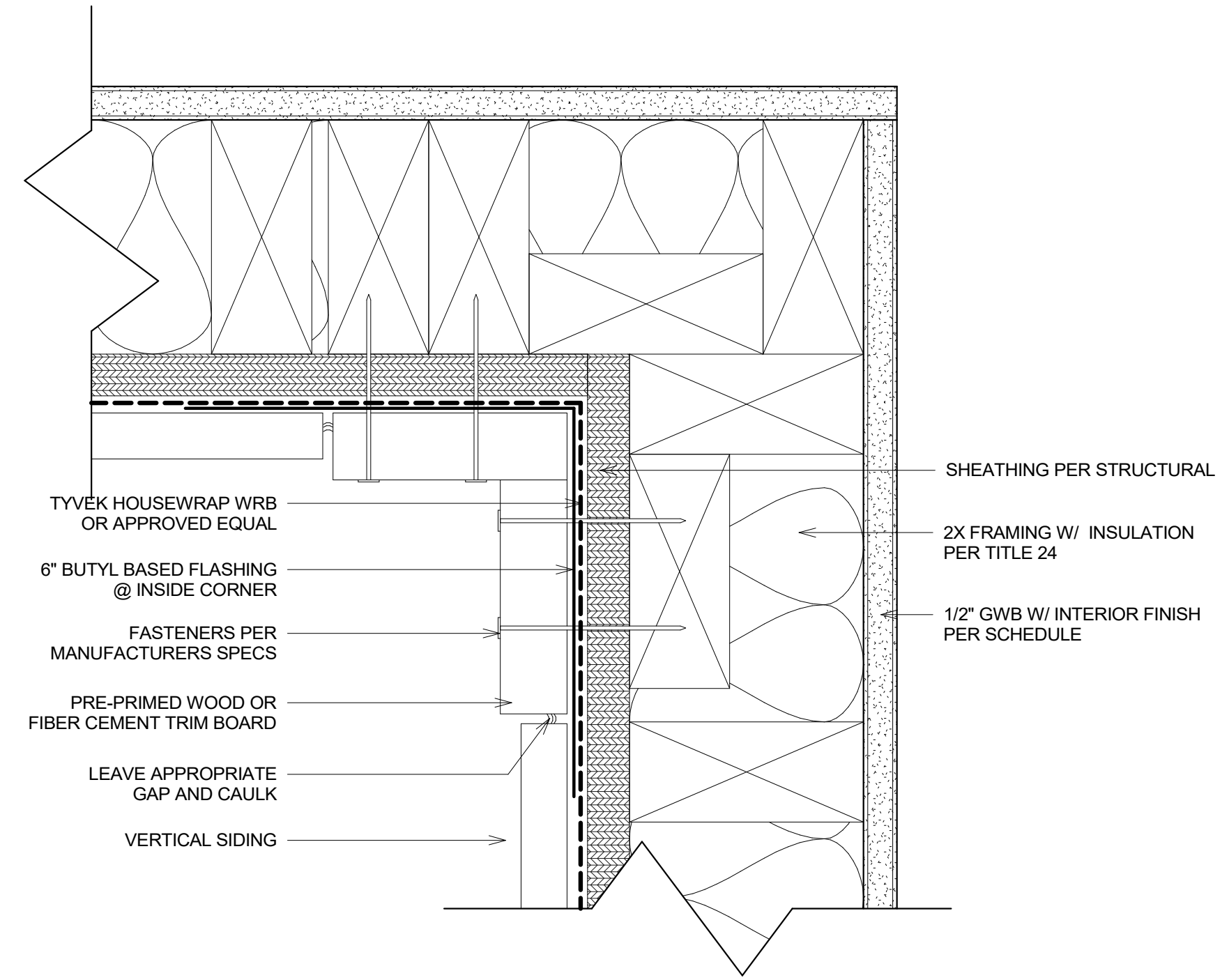
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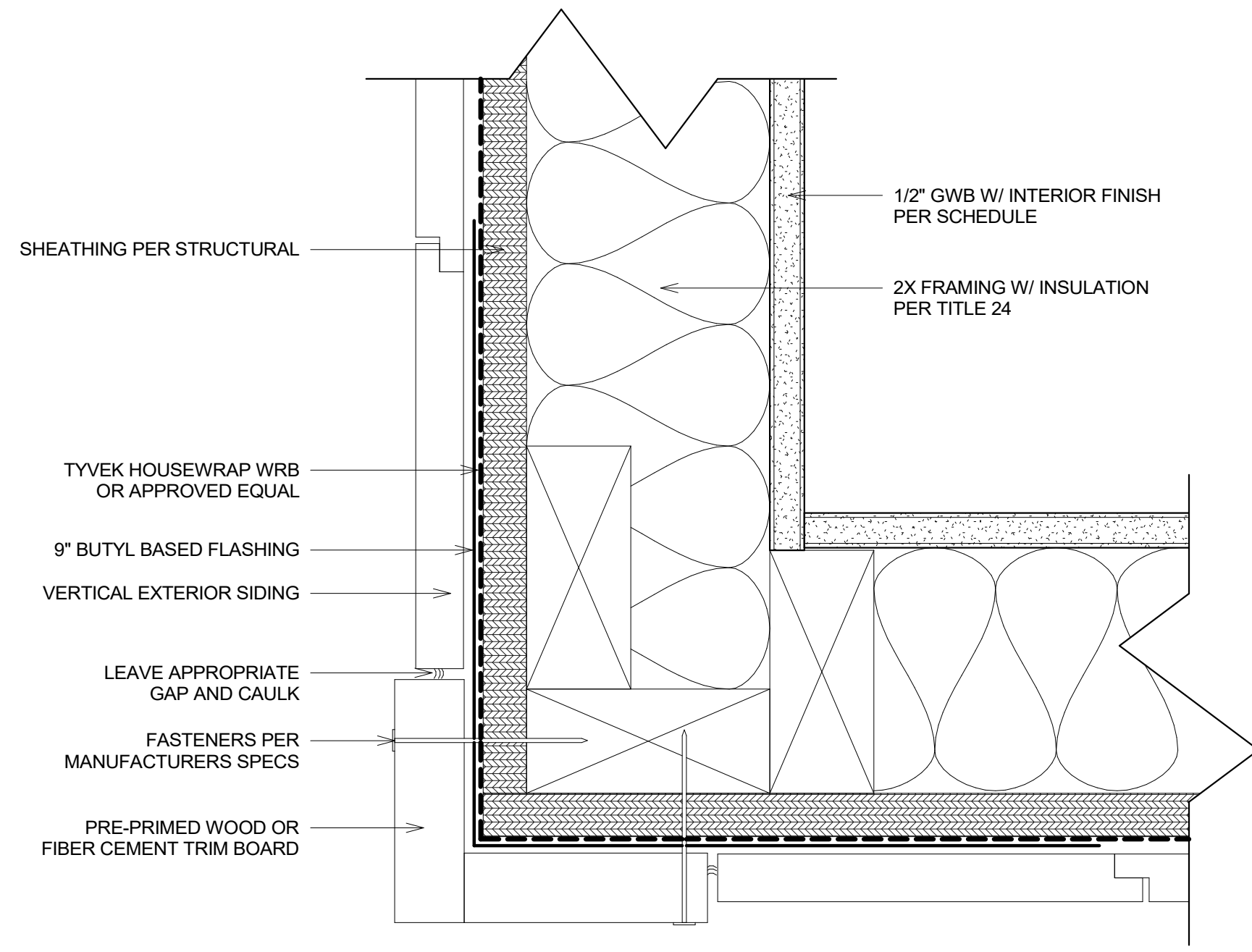
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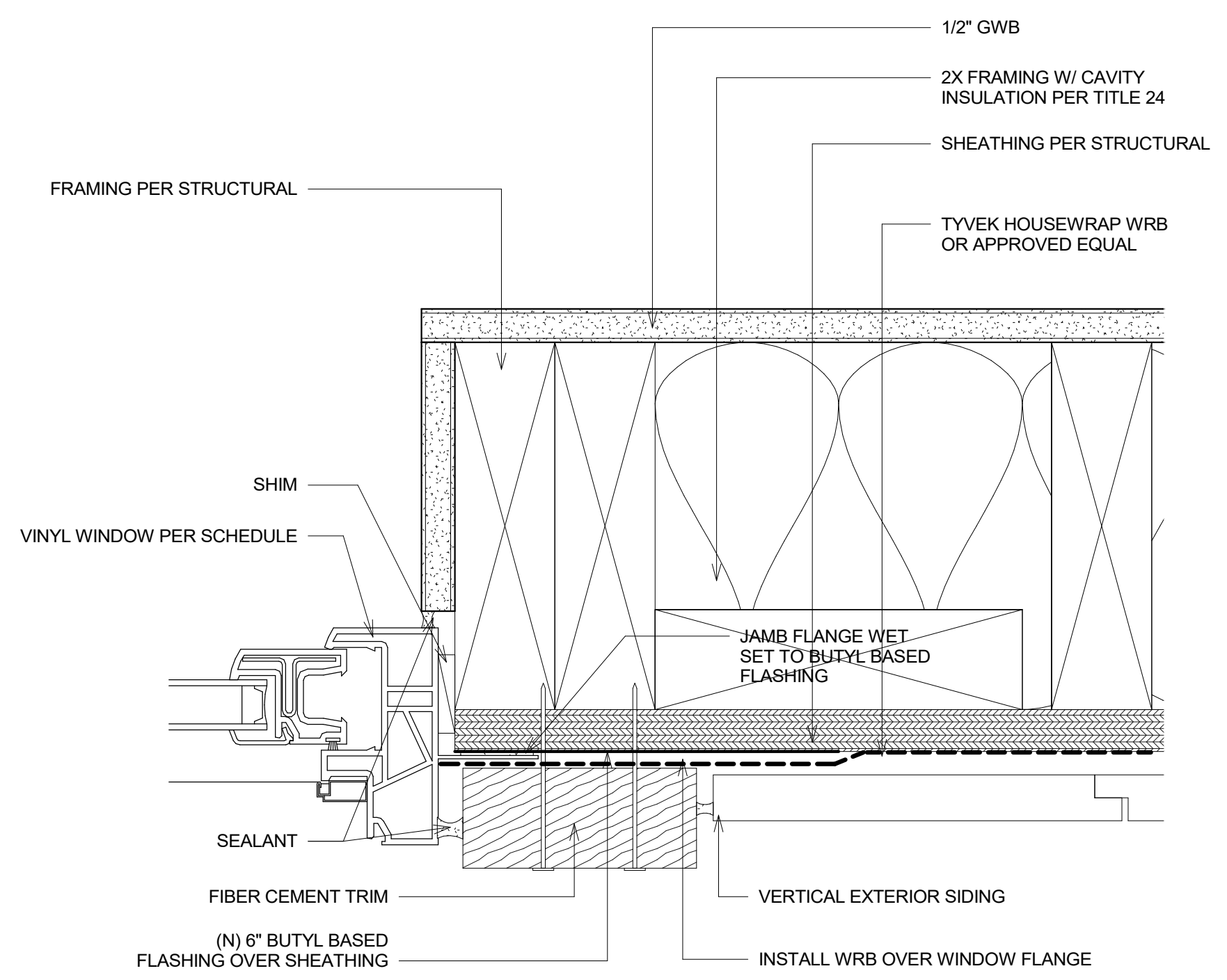
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① VERTICAL SIDING @ ISC
 6" = 1'-0"



② VERTICAL SIDING @ OSC
 6" = 1'-0"



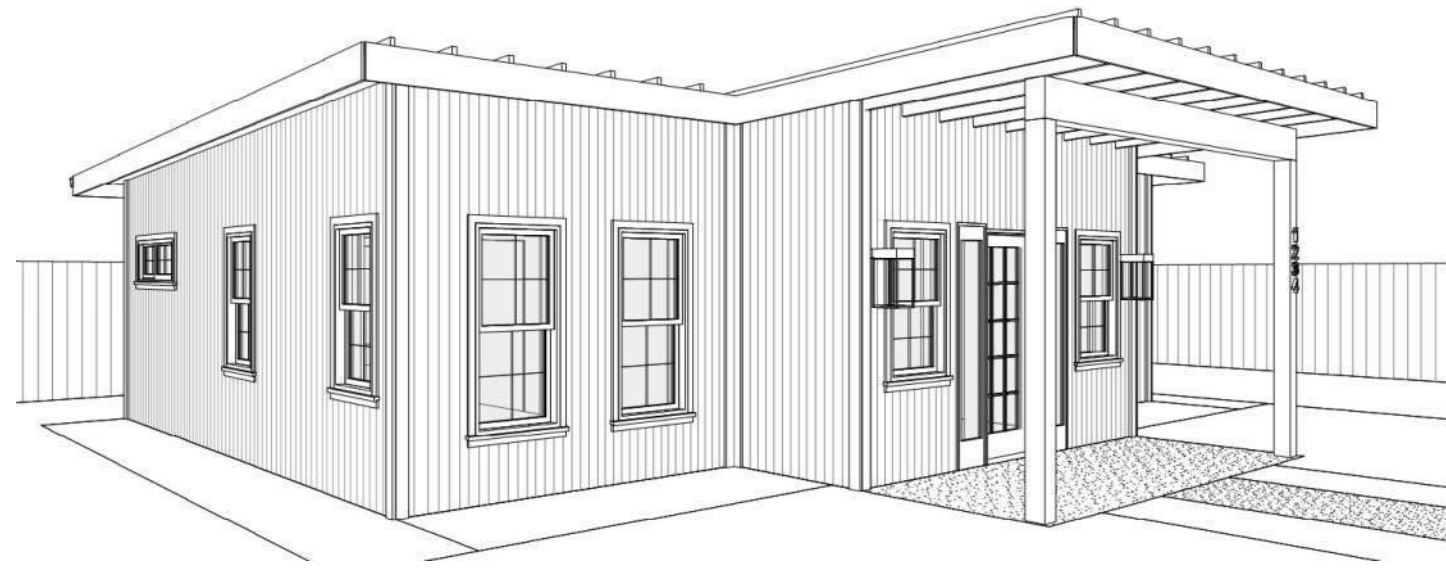
③ VERTICAL SIDING @ VINYL WINDOW
 JAMB
 6" = 1'-0"

STRUCTURAL PLANS

FOR

MODEL B2

CITY OF ROCKLIN PRE-APPROVED ADU



TRUSS NOTES

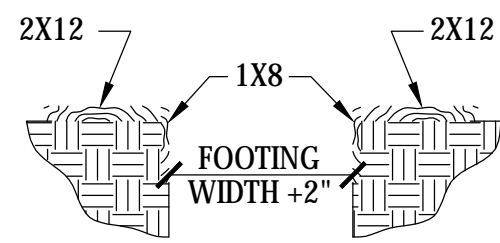
- DESIGN LOADS:**
- TOP CHORD**
15 PSF DL
20 PSF LL (REDUCIBLE)
- BOTTOM CHORD**
5 PSF DL
10 PSF LL (NON-CONCURRENT W/ TOP CHORD LL)
- TOP CHORD TO BE MINIMUM 2X4 TYPICAL - 2X4 ALL OTHER MEMBERS (U.N.O.).
 - TRUSS MEMBERS SHALL BE DOUGLAS FIR (DF) NO.2 OR BETTER.
 - WOOD UNDER PLATES MUST BE FREE OF KNOTS, KNOT HOLES AND GREATLY DISTORTED GRAINS.
 - CALCULATIONS AND TRUSS DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER FOR REVIEW PRIOR TO FABRICATION. GIRDER TRUSSES CALCULATIONS SHALL INCLUDE POINT LOADS FROM CARRIER TRUSS REACTIONS. ALL CALCULATIONS SHALL BE SIGNED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
 - FABRICATION AND DESIGN SHALL CONFORM TO THE ICBO, CURRENT EDITION AND TPI-85 OF THE TRUSS PLATE INSTITUTE.
 - PROVIDE TEMPORARY ERECTION BRACING AS REQUIRED.
 - ALLOWABLE STRESS INCREASE FOR LOAD DURATION SHALL BE 25% (PERCENT) MAXIMUM.
 - INCREASE FOR ALLOWABLE STRESSES FOR REPETITIVE MEMBERS, SHALL BE PERMISSIBLE.
 - EFFECTS OF ECCENTRIC LOADING SHALL BE CONSIDERED IN THE DESIGN OF ALL JOINTS.
 - GENERAL CONTRACTOR TO PROVIDE WEB BRACING AS REQUIRED BY TRUSS MANUFACTURERS DESIGN.
 - BUILT-UP GIRDER TRUSSES SHALL BE LAMINATED USING 1/2" BOLTS AT 24" CC MAXIMUM THROUGH ALL MEMBERS.
 - ALL HARDWARE REQUIRED FOR CONNECTING TRUSSES (JACK TO HIP, HIP TO GIRDER, GIRDER TO GIRDER, ETC) SHALL BE DESIGNED, DETAILED AND SPECIFIED BY TRUSS FABRICATOR.
 - TRUSS MANUFACTURER SHALL SUBMIT LATEST ICBO APPROVED TEST DATA FOR TRUSS METAL PLATE CONNECTIONS TO ARCHITECT AND/OR ENGINEER PRIOR TO FABRICATION.
 - TRUSS MANUFACTURER TO PROVIDE PLAN DRAWING SHOWING TRUSS LOCATIONS AND TRUSS PROFILE SHOP DRAWINGS PRIOR TO FABRICATION.
 - GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS SHOWN ON TRUSS PROFILES WITH ARCHITECTURAL DRAWINGS AND IN FIELD WITH WALL LAYOUT PRIOR TO FABRICATION. PROVIDE SHOP DRAWINGS WITH DIMENSIONS REVIEWED AND APPROVED BY GENERAL CONTRACTOR.
 - TRUSS MANUFACTURER TO ACCOUNT FOR THE WEIGHT OF ALL MECHANICAL EQUIPMENT IN DESIGN OF ALL TRUSSES WHICH SUPPORT SUCH UNITS.

CONCRETE

- CONCRETE 28 DAY COMPRESSIVE STRENGTH, F'c = 2500PSI U.N.O.
- WATER TO CEMENT RATIO SHALL NOT EXCEED 0.50.
- MOIST CURE SLABS FOR A MINIMUM OF 3 DAYS.
- CONCRETE MIX DESIGN SHALL BE PREPARED BY A 3RD PARTY INDEPENDENT LABORATORY. SELECTION OF CONCRETE MIX PROPORTIONS SHALL BE PER THE CALIFORNIA BUILDING CODE.
- CEMENT SHALL CONFORM TO ASTM C-150 TYPE I OR II.
- CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33. AGGREGATES FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.
- REINFORCING DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF MAIN BARS AND DENOTE CLEAR COVERAGE. CONCRETE COVERAGE SHALL BE AS FOLLOWS: CONCRETE DEPOSITED AGAINST GROUND (EXCEPT SLABS) 3" - CONCRETE EXPOSED TO GROUND BUT PLACES IN FORMS - 2" - SLABS (ON GROUND) - 2" CLEAR FROM TOP U.N.O.
- ALL PREHEATING AND WELDING OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH AWS D1.4 LATEST EDITION AND SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED LABORATORY. CONTRACTOR SHALL FURNISH TO THE LABORATORY. REBAR MILL CERTIFICATES.
- REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".
- WIRE FABRIC SHALL CONFORM TO ACI 318-3.5.1, ACI 318-3.5.7, AND ASTM A-1064.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615-GRADE 60 FOR NO. 5 AND LARGER, AND ASTM A615-GRADE 40 FOR NO. 4 AND SMALLER, EXCEPT REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
- SPLICES IN CONTINUOUS REINFORCEMENT FOR A CLASS "A" LAP SPLICE FOR NORMAL WEIGHT CONCRETE WHERE LESS THAN 12" OF CONCRETE IS BELOW THE LAP SPLICE SHALL BE 48 BAR DIAMETERS AND SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART. CLASS "B" LAP SPLICES SHALL BE 63 BAR DIAMETERS. SPLICE CONTINUOUS BARS IN SPANDRELS, GRADE BEAMS, ETC., AS FOLLOWS: TOP BARS AT MID-SPAN; BOTTOM BARS AT CENTERLINE AT SUPPORT, UNLESS NOTED OTHERWISE. SPLICES IN WWF SHALL BE 1.5 MESHES WIDE.
- REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC., TO BE EMBEDDED IN CONCRETE SHALL BE TIED SECURELY IN POSITION BEFORE PLACING CONCRETE PER ACI 318-12.18.
- CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND SURFACE FREE OF LOOSE DEBRIS. CONCRETE MY BE ROUGHENED BY SAND BLASTING OR CHIPPING THE ENTIRE SURFACE TO PRODUCE 1/4" DEEP DEFORMATIONS.
- REMOVE ALL DEBRIS FROM FORMS BEFORE CASTING ANY CONCRETE.
- 3'-0" SHALL BE THE MAXIMUM ALLOWED FREE FALL FOR CONCRETE TO MORE CLOSELY CONFORM TO ACI 318-5.10.
- CONSOLIDATE CONCRETE PLACED IN FORMS BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING, RODDING OR TAMPING. USE EQUIPMENT AND PROCEDURES FOR CONSOLIDATION OF CONCRETE IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF ACI 309 TO SUIT THE TYPE OF CONCRETE AND PROJECT CONDITIONS.
- NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE CONCRETED.
- ALL SAW CUTTING SHALL BE DONE AFTER INITIAL SET HAS OCCURRED TO AVOID TEARING OR DAMAGE BY THE SWABBED, BUT BEFORE INITIAL SHRINKING HAS OCCURRED.
- DRILL THROUGH STEEL COLUMNS, BEAMS AND PLATES TO PASS CONTINUOUS REINFORCING.
- ADDITIONAL REINFORCING IN PRECAST OR TILT-UP PANELS REQUIRED FOR LIFTING STRESSES SHALL BE SUPPLIED BY THE CONTRACTOR.
- PROVIDE 2-NO.5X4'-0" DIAGONAL REINFORCING AT MID-DEPTH OF SLAB AT ALL REENTRANT CORNERS TYPICAL.

FOUNDATIONS

- BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL. CHANGES IN BOTTOM OF FOUNDATION ELEVATION SHALL BE MADE ACCORDING TO STEPPED FOOTING DETAIL ON THE TYPICAL DETAIL SHEET.
- ALL PILE CAPS, GRADE BEAMS, TIE BEAMS & OTHER FOOTINGS SHALL BE FORMED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. FOUNDATIONS MAY BE CAST IN NEAT EXCAVATIONS PROVIDED WRITTEN APPROVAL IS OBTAINED AND FOOTINGS ARE INCREASED 2" IN WIDTH. USE 2X12 PLANK AT EDGE OF EXCAVATION TO PROTECT AGAINST SLUFFING, AS REQUIRED.
- WORK PERFORMED ON FOUNDATION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT CBC
- IF A TWO POU FOUNDATION IS UTILIZED, THE COLD JOINT BETWEEN THE EXTERIOR FOOTING AND SLAB-ON-GRADE SHOULD BE LOCATED AT LEAST 4 INCHES ABOVE ADJACENT GRADE. IF THIS IS NOT DONE, A WATERSTOP BETWEEN THE TWO POURS SHALL BE USED.



SHEARWALL

- MIN 2X FRAMING MEMBERS OR BLOCKING REQUIRED AT ALL PANEL EDGES IN SHEAR WALL.
- TABLE VALUES ARE BASED ON 16" OC STUD SPACING.
- ALL ANCHOR BOLTS IN WALLS INCLUDING SHEARWALLS REQUIRE 3"x3"x.229" THICK PLATE WASHERS. ONE EDGE OF THE STEEL PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE MUDSILL ON THE SIDE(S) WITH APA RATED WOOD SHEATHING. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" (44 mm) LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4" (44 mm), PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
- SOLE PLATE NAILING LESS THAN 6" OC SHALL BE STAGGERED 1/2" ABOUT THE CENTERLINE OF THE SOLID RIM.
- (2) ANCHOR BOLTS MINIMUM PER SHEAR WALL.
- 3X AND 4X MEMBERS AT ADJOINING PANEL EDGES MUST BE A SINGLE MEMBER.
- FOR SHEAR WALLS ON RAISED WOOD, FOUNDATIONS AND UPPER FLOORS REQUIRING LTP5 CLIPS AT THE 2x SOLE PLATE, A MINIMUM OF (1) CLIPS MUST ALWAYS BE INSTALLED.
- SOLE PLATE TO RIM, OR SOLE PLATE TO BEAM/BLOCKING TO BE 2X U.N.O.
- WHEN A SHEARWALL IS LOCATED IN A FIRE PROTECTED WALL, THE FIELD NAILING SHALL BE 8" OC MAX REGARDLESS OF THE SHEAR WALL SPECIFICATIONS. EN AND NAIL SIZE SHALL BE THE SAME AS SPECIFIED ON THE PLANS.
- DRYWALL SCREWS ARE PERMITTED TO SUBSTITUTE FOR THE 5D AND 6D NAILS.
- ALL FIELD NAILING SHALL BE @ 12" OC MAX., U.N.O.

NAILING SCHEDULE

REF. CBC 2019, TABLE 2304.10.1. ALL NAILS FOR STRUCTURAL WORK SHALL BE COMMON WIRE NAILS CONFORMING TO THE FOLLOWING MINIMUM SIZES:

8D	Q 131" Ø X 2 1/2"
10D	Q 148" Ø X 3"
10D SHORTS	Q 148" Ø X 1 5/8" PLUS THICKNESS OF S.P.
16D	Q 162" Ø X 3 1/2"
20D	Q 192" Ø X 4"

HOLES SHALL BE SUB-DRILLED WHERE NECESSARY TO PREVENT SPLITTING. NAILING NOT NOTED BELOW OR ON PLANS SHALL BE MINIMUM OF NAILS AT EACH CONTACT. 8D NAILS FOR 1" MATERIAL AND 16D NAILS FOR 2" MATERIAL.

- BLOCKING BTWN CEILING JSTS, RAFTER OR TRUSS TO TOP PLATE OR FRAMING
BELOW; END NAIL, TOENAIL ----- 3-8D
- BLOCKING BTWN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS; END NAIL, TOENAIL ----- 2-8D
- FLAT BLOCKING TO TRUSS AND WEB FILLER; FACE NAIL ----- 16D
- CEILING JST TO TOP PLATE; EACH JST, TOENAIL ----- 3-8D
- CEILING JST NOT ATTACHED TO PARALLEL RAFTER, (NO THRUST); FACE NAIL --- 3-16D
- CEILING JST ATTACHED TO PARALLEL RAFTER (HEEL JOINT); FACE NAIL ----- TABLE 2308.7.3.1
- COLLAR TIE TO RAFTER; FACE NAIL ----- 3-10D
- RAFTER OR ROOF TRUSS TO TOP PLATE; TOENAIL ----- 3-10D
- ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS, OR ROOF RAFTERS TO 2" RIDGE BEAM; END NAIL ----- 2-16D
- STUD TO STUD (NOT AT BRACED WALL PANELS); 24" OC FACE NAIL ----- 16D
- STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANEL); 16" OC FACE NAIL ----- 16D
- BUILT UP HEADER (2" TO 2" HEADER); 16" OC EACH EDGE, FACE NAIL ----- 16D
- CONTINUOUS HEADER TO STUD; TOENAIL ----- 4-8D
- TOP PLATE TO TOP PLATE; 16" OC FACE NAIL ----- 16D
- TOP PLATE TO TOP PLATE, AT END JOINTS; EA. SIDE END, FACE NAIL, MIN 24" LAP ----- 8-16D
- BOTTOM PLATE TO JST, RIM JST, BAND JST, OR BLOCKING (NOT AT BRACED WALL PANELS); 16" OC FACE NAIL ----- 16D
- BOTTOM PLATE TO JST, RIM JST, BAND JST, OR BLOCKING AT BRACED WALL PANELS; 16" OC FACE NAIL ----- 2-16D
- STUD TO TOP OR BOTTOM PLATE; TOENAIL ----- 4-8D
- TOP OR BOTTOM PLATE TO STUD; END NAIL ----- 2-16D
- TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS; FACE NAIL ----- 2-16D
- 1" BRACE TO EACH STUD & PLATE; FACE NAIL; FACE NAIL ----- 2-8D
- 1"X8" SHEATHING TO EACH BEARING; FACE NAIL ----- 2-8D
- WIDER THAN 1"X8" SHEATHING TO EACH BEARING; FACE NAIL ----- 3-8D
- JOIST TO SILL, TOP PLATE, OR GIRDER; TOENAIL ----- 3-8D
- RIM JST, BAND JST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING; 6" OC TOENAIL ----- 8D
- 1" X 6" SUBFLOOR OR LESS TO EACH JST; FACE NAIL ----- 2-8D
- 2" SUBFLOOR TO JST OR GIRDER; FACE NAIL ----- 2-16D
- 2" PLANKS (PLANK & BEAM - FLOOR AND ROOF); EACH BEARING, FACE NAIL --- 2-16D
- BUILT UP GIRDERS AND BEAMS, 2" LUMBER LAYERS; 24" OC FACE NAIL TOP & BOT. STAGGERED ON OPP SIDES ----- 20D
- LEDGER STRIP SUPPORTING JST OR RAFTERS; EACH JST OR RAFTER, FACE NAIL ----- 3-16D
- JOIST TO BAND JOIST OR RIM JOIST; END NAIL ----- 3-16D
- BRIDGING OR BLOCKING TO JST, RAFTER, OR TRUSS; EACH END, TOENAIL ---- 2-8D
- WOOD STRUCTURAL PANELS:
SUBFLOOR, ROOF, & INTERIOR WALL SHEATHING TO FRAMING
1/2" A OR LESS ----- } NAILS SPACED @ 6" OC
19/32" 3/4" ----- } AT EDGES, 12" OC @
7/8" 1-1/4" ----- } INTERMEDIATE
COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING ----- } SUPPORTS EXCEPT 6"
3/4" - 1" ----- } AT ALL SUPPORTS
1-1/8" - 1-1/4" ----- } WHERE SPANS ARE 48"
OR MORE, FOR NAILING
OF BRACED WALL
PANELS OR SHEAR
WALLS, SEE PLAN.

WOOD

- ALL WOOD IN DIRECT CONTACT WITH EARTH OR CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR.
- BEARING AND SHEAR WALLS SHALL HAVE DOUBLE TOP PLATES, LAPPED AT WALL AND PARTITION INTERSECTION WITH 3-16D NAILS.
- PROVIDE SOLID BLOCKING BETWEEN JOISTS AND RAFTERS AT ALL SUPPORTS.
- PROVIDE BLOCKING AT ALL CEILING LEVELS.
- ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATION:
DOUGLAS FIR - COAST REGION - WCLB GRADING RULES NO.17 DF NO.2, U.N.O.
REDWOOD - CALIFORNIA REDWOOD ASSOCIATION GRADING RULES, LATEST EDITION.
GLUED LAMINATED BEAMS - SHALL BE 24F-V4 OR 24F-V8 FOR CANTILEVERED BEAMS. BEAMS SHALL ALSO BE MANUFACTURED AND IDENTIFIED AS REQUIRED IN ANS/AITC A190.1 AND ASTM D3737. STANDARD SPEC. FOR STRUCTURAL GLUED LAMINATED TIMBER AITC 117 LATEST ADDITION. SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION OF GLUED-LAMINATED MEMBERS.
PLYWOOD - U.S. PRODUCT STANDARDS PSI AND PS2. PLYWOOD SHALL BE APA RATED EXPOSURE 1, OR EXTERIOR, AS REQUIRED; STRUCTURAL 1 AND C-D TO MEET PS1 AND PS2 AS REQUIRED. CDX (C-D EXPOSURE 1) OR OSB (ORIENTED STRAND BOARD) @ FLOORS AND ROOF - U.N.O.
- PRESSURE TREATED DOUGLAS FIR - AWPA (AMERICAN WOOD PRESERVERS' ASSOCIATION) U1. USE CATEGORY UC2 FOR INTERIOR USE. WATERBORN PRESERVATIVES SHALL HAVE A MINIMUM RETENTION LEVEL OF 0.25 LB/FT³ AND SHALL NOT CONTAIN CHROMIUM, COPPER, OR ARSENATE. NEWLY EXPOSED SURFACES, RESULTING FROM FIELD MODIFICATION SUCH AS CUTTING, BORING, OR HANDLING, SHALL BE HELD TREATED IN ACCORDANCE WITH AWPA M-4.
- HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
- HOLES FOR LAG SCREWS SHALL BE BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK AND THE REST NO LARGER THAN THE ROOT OF THE THREAD.
- LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. SOAP MAY BE USED TO LUBRICATE THE SCREWS.
- ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS, RED HEAD ETC.

BOLT DIAMETER	MI WASHER	STEEL WASHER
1/2" DIA.	2" DIA. X 1 1/16"	3" X 3" X 1/4"
3/8" DIA.	2 3/4" DIA. X 1 1/16"	3" X 3" X 1/4"
3/4" DIA.	3" DIA. X 7/16"	3" X 3" X 3/16"
7/8" DIA.	3 1/2" DIA. X 7/16"	3 1/2" X 3 1/2" X 3/8"
1" DIA.	4" DIA. X 1/2"	3 3/4" X 3 3/4" X 3/8"

- ALL BOLTS AND LAG SCREWS SHALL BE TIGHTENED ON INSTALLATION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
- BLOCK SP JOINTS WITH 2X4 FLAT BLOCKING WHERE NOTED ON ROOF OR FLOOR FRAMING PLANS AND WITH BLOCKING SAME AS STUDS AT WALLS.
- LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORT UNLESS NOTED OTHERWISE.
- CONNECTOR HARDWARE MODEL NUMBER ARE THOSE FOR SIMPSON STRONG-TIE COMPANY. EQUIVALENT CONNECTORS WITH ICC ACCEPTANCE MAY BE SUBSTITUTED WITH WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. ALL JOIST HANGERS SHALL BE SIMPSON U SERIES UNLESS NOTED OTHERWISE.
- FASTENERS FOR PRESERVATIVE TREATED & FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL (PER ASTM A153, CLASS G185), STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153.
- ALL WOOD FRAMING SHALL HAVE LESS THAN 19% MOISTURE CONTENT AT TIME OF INSTALLATION.

ABBREVIATIONS

AB	ANCHOR BOLT	MI	MALLEABLE IRON
BTWN	BETWEEN	(N)	NEW
CC	CENTER TO CENTER	PTDF	PRESSURE TREATED DOUGLAS FIR
CJ	CONSTRUCTION JOINT	PSL	PARALLEL STRAND LUMBER
CJT	CONTROL JOINT	NTS	NOT TO SCALE
CLR	CLEAR	OH	OPPOSITE HAND
CONC	CONCRETE	PP	PIECE
CONT	COMPLETE PENETRATION	PW	PARTIAL PENETRATION
DF	DOUGLAS FIR	RDWD	REDWOOD
DL	DEAD LOAD	SC	SHEAR CONNECTOR
(E)	EXISTING	SDSTS	SELF DRILLING SLF TAPPING SCRW
EJ	EXPANSION JOINT	SP	STRUCTURAL PLY
EN	EN	SPEN	STRUCTURAL PLY EN
FB	FACE OF BLOCK	STFNR	STIFFENER
FC	FACE OF CONCRETE	STGGRD	STAGGERED
FF	FINISH FLOOR	T&B	TOP & BOTTOM
FLR	FLOOR	T&G	TONGUE & GROOVE
FS	FACE OF STUD	TO	TOE NAIL
FTG	FOOTING	TN	TOP OF FRAMING
GA	GAUGE	TOS	TOP OF STEEL
GLB	GLUED-LAMINATED BEAM	UNO	UNLESS NOTED OTHERWISE
HDR	HEADER	W/	WITH
HSB	HIGH STRENGTH BOLT (A-325)	W/O	WITHOUT
HT	HEIGHT	WP	WORK POINT
JH	JOIST HANGER (SIMPSON)	WS	WOOD SCREW
LL	LINE LOAD	WWF	WELDED WIRE FABRIC
LSL	LAMINATED STRAND LUMBER	Ø	CENTERLINE
LT WT	2325 Fb, 310 Fv, 1.55E	#	PLATE
LVL	LIGHT WEIGHT	□	NUMBER OF POUNDS
MFR	LAMINATED VENEER LUMBER	■	SQUARE
	2600Fb, 285Fv, 1.8E	Ø	ROUND OR DIAMETER
	MANUFACTURER	⊠	CONTINUOUS WOOD IN SECTION
		⊞	WOOD BLOCKING IN SECTION
		⊟	END OF WOOD PIECE

GENERAL CONSTRUCTION NOTES

- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL WORK AND CONSTRUCTION MEETS ALL CURRENT FEDERAL, STATE, COUNTY, AND LOCAL CODES, ORDINANCES, REGULATIONS, ETC. THESE CODES ARE TO BE CONSIDERED PART OF THE SPECIFICATIONS FOR THIS BUILDING AND SHOULD BE ADHERED TO EVEN IF THEY ARE IN VARIANCE OF THE PLAN.
- DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DRAWING (DO NOT SCALE DRAWING.)
- THE ENGINEER HAS NOT BEEN ENGAGED FOR CONSTANT CONSTRUCTION SUPERVISION AND ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION COORDINATING WITH THESE PLANS. NOR RESPONSIBILITY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THERE ARE NO WARRANTIES FOR A SPECIFIC USE EXPRESSED OR IMPLIED IN THE USE OF THESE PLANS.
- REFER TO ARCHITECTURAL SHEETS FOR FLOOR PLANS, EXTERIOR ELEVATIONS, AND WINDOW AND DOOR SIZES AND TYPES.

DESIGN CRITERIA

SEISMIC CRITERIA	D	GRAVITY LOADING	
SDC	D	ROOF LIVE	20psf
SITE CLASS	D	ROOF DEAD	15psf
RISK CATEGORY	II	WALL DEAD	17psf
SEISMIC IMPORTANCE FACTOR	1.00		
RESPONSE MODIFICATION FACTOR	6.5	WIND CRITERIA	
SEISMIC FORCE RESISTING SYSTEM:		ULTIMATE WIND, Vult	94mph
LIGHT FRAME WOOD SHEAR WALL		BASIC WIND, Vasd	76mph
		WIND EXPOSURE	C
		INTERNAL PRESSURE COEFF	+1-0.18
		lw	1.0
		SOIL BEARING	1500psf
ANALYSIS PROCESS		EQUVALENT LATERAL FORCE	CODES
			ASCE 7-16, CBC 2022, ACI 318-14, 2018 NDS

STRUCTURAL INDEX

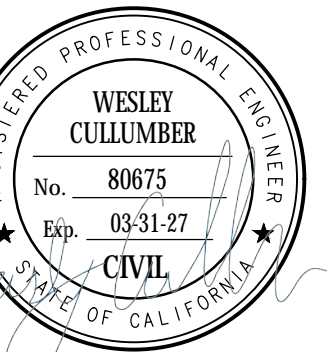
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S1.0	STRUCTURAL PLANS - MODEL B2
SD1	TYPICAL STRUCTURAL DETAILS
SD2	TYPICAL STRUCTURAL DETAILS
SD3	STRUCTURAL DETAILS

STRUCTURAL NOTES AND SPECIFICATIONS

CITY OF ROCKLIN, CA

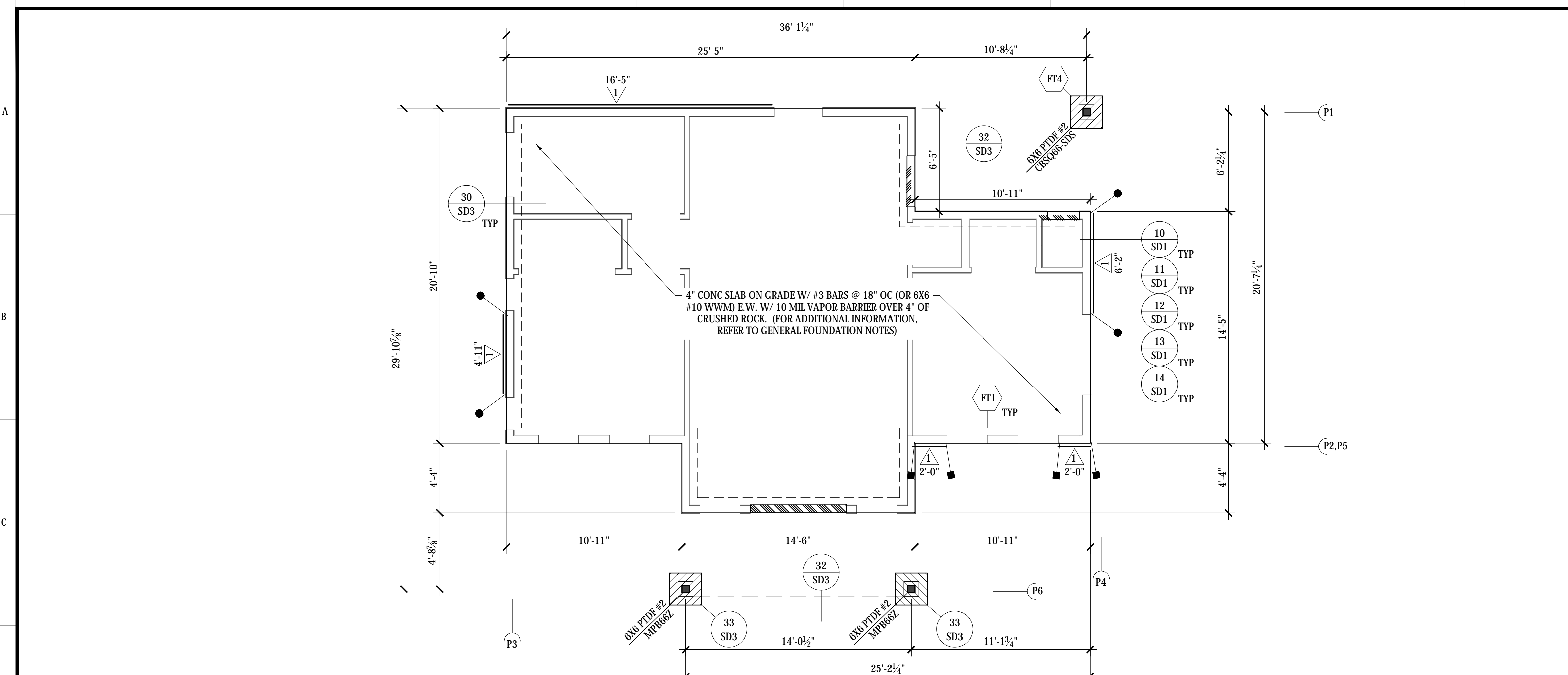
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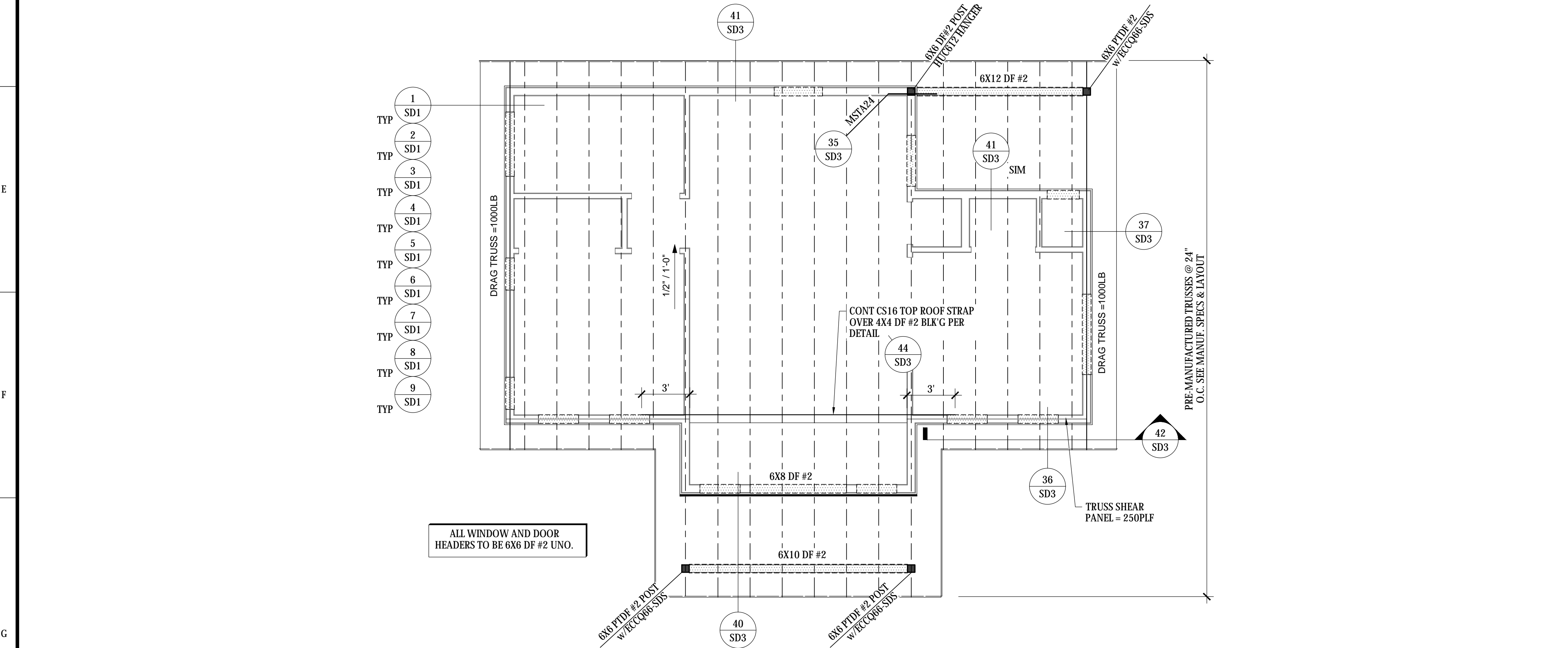
NO.	REVISIONS
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SCALE:	AS NOTED
DATE:	9/24/2025
DESIGNED BY:	E.BROWN
DRAWN BY:	E.SHARAPOVA
REVIEWED BY:	W.CULLUMBER
JOB NO:	RN070225
SHEET NO.	

SN1



FOUNDATION AND SHEARWALL PLAN

SCALE: 1/4" = 1'-0"



ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

FOOTING SCHEDULE

TYPE	DIMENSIONS			REINFORCEMENT			MAX. CAPACITY	NOTES			
	LENGTH	WIDTH	DEPTH	NO.	SIZE	LENGTH			NO.	SIZE	LENGTH
FT1	CONT.	12"	12"	2	#4	CONT.	-	-	-	1,500 PLF	(1) TOP, (1) BOT
FT2	CONT.	15"	18"	2	#5	CONT.	-	-	-	1,875 PLF	(1) TOP, (1) BOT
FT3	18"	18"	12"	3	#4	12"	3	#4	12"	3,375 LBS	
FT4	24"	24"	12"	4	#4	18"	4	#4	18"	6,000 LBS	

GENERAL FOUNDATION NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR REFERRING TO THE PLANS TO VERIFY HOLDOWN LOCATIONS, STRUCTURAL PLYWOOD SHEATHING SPECIFICATIONS AND NAILING SCHEDULE.
- POSTS SHOWN ON THE FOUNDATION PLAN ARE THOSE DIRECTLY CONNECTED TO THE FOUNDATION WITH A HOLDOWN OR POST BASE CONNECTOR.
- PROVIDE 3/8"x10" ANCHOR BOLTS @ 4'-0" OC AND 12" FROM ALL EDGES AT THE BEARING WALLS AND EXTERIOR NON-SHEAR WALLS W/ 7" MIN EMBEDMENT. FASTEN TO BOTTOM PLATE USING 3"x3"x1/4" STEEL WASHERS.
- OPTIONAL: PROVIDE 2X PTDF SLEEPER EMBEDDED IN SLAB AT DOORS LEADING TO EXTERIOR AND GARAGE. EXTEND 6" PAST DOOR CASING. (2) 20d @ EA END & 24" OC
- ALL FOOTINGS, FOUNDATIONS, EXCAVATIONS, GRADING, AND FILL SHALL COMPLY TO THE PROVISIONS OF THE CALIFORNIA BUILDING CODE.
- SLAB REINFORCEMENT SHALL BE PROVIDED EACH WAY, AS INDICATED ON THE PLANS, IN THE MIDDLE THIRD OF SLAB. WHERE VAPOR BARRIER IS REQUIRED, VAPOR RETARD BARRIER SHALL BE SEALED AT ALL PENETRATIONS AND SHALL CONFORM TO CLASS A VAPOR RETARDER IN ACCORDANCE WITH THE MOST CURRENT VERSION OF ASTM E 1745. STANDARD SPECIFICATIONS FOR PLASTIC WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS. VAPOR BARRIER SHALL BE UNDERLAIN WITH 4" DEEP 3/4" CRUSHED ROCK WITH 100% PASSING THE 3/4" SIEVE AND LESS THAN 5% PASSING THE NO. 4 SIEVE.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MEASUREMENTS AGAINST THE ARCHITECTURAL PLAN SET. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR AND DESIGNER BEFORE FORMING AND/OR POURING CONCRETE.

FOUNDATION LEGEND

- (N) FOOTING - SEE FOOTING SCHEDULE FOR DIMENSIONS AND REINFORCEMENT.
- DOOR SLEEPER PER FOUNDATION NOTE #4.
- POST - SEE IN VIEW FOR POST SIZE AND TYPE.

SHEARWALL SCHEDULE

### PLF	SHEATHING/NAILING	MUD SILL	ANCHOR BOLTS	VERT. MEMBER @ ADJ. PANEL EDGES	SOLE PLATE TO RIM	RIM TO SILL PLATE (A35 CLIPS)
260 PLF	3/8" APA RATED ONE FACE w/8d COMMONS @ 6" OC EDGE	2x	5/8" @ 48" OC	2x	SDWS22500DB @ 12" OC	@ 24" C.C.

- REFER TO "SHEARWALL NOTES" ON SHEET SN1 FOR ADDITIONAL INFORMATION.

HOLDOWN SCHEDULE

1,435 LBS	STHD10/10RI HOLDOWN INSTALL PER DETAIL 17/SD2 & 18/SD2
2,685 LBS	STHD14/14RI HOLDOWN INSTALL PER DETAIL 17/SD2 & 18/SD2

- ALL HOLDOWN CONNECTORS SHALL BE RE-TIGHTENED JUST PRIOR TO ENCLOSURE.
- CONTRACTOR SHALL PLACE ALL HOLDOWNS IN THE CORRECT LOCATION TO TIE INTO HD POST.
- REFER TO DETAIL 18/SD2 FOR HD PLACEMENT AT WINDOW OR DOOR OPENING.

ROOF FRAMING NOTES

- SEE SHEET SD1 AND SD2 FOR ADDITIONAL FRAMING DETAILS.
- SEE "WOOD NOTES" ON SHEET SN1.
- ALL BEAM SUPPORTING POSTS ARE TO BE AT LEAST THE WIDTH OF THE BEAM BEING SUPPORTED.
- ROOF SHEATHING SHALL BE 1/2" CDX/OSB WITH 8d @ 6" OC EN & 12" OC FIELD NAILING, U.N.O.
- NO EDGE BLOCKING REQUIRED, U.N.O.
- TOP PLATE SPLICE AT INTERIOR AND EXTERIOR WALLS SHALL BE 48" MIN LENGTH AND NAILED WITH (16) 16d NAILS.
- ROOF OVERFRAME - 2x DF-L#2 @ 24" OC (ONE NOMINAL SIZE SMALLER THAN RIDGE BOARD) OVERFRAME AREA PROVIDE OPENINGS THROUGH ROOF SHEATHING BELOW INTO MAIN ATTIC SPACE FOR ADEQUATE VENTILATION. IN AREAS OF HEAD ROOM OF MORE THAN 30" HIGH PROVIDE A 22" x 30" ACCESS THROUGH MAIN ROOF SHEATHING (TYP).
- FOR BUILT-UP COLUMNS, PROVIDE (2) 10d NAILS @ 8" OC TO PROVIDE SOLID CONNECTION.
- EXTERIOR STUD WALLS SHALL BE 2X6 DF-L#2 @ 16" OC U.N.O.. WALL SIZES SHALL BE VERIFIED TO MATCH THE ARCHITECTURAL PLAN SET.
- BEAMS MAY BE SUBSTITUTED FOR LARGER WIDTHS AND/OR DEPTH OF EQUAL SPECIFICATIONS TO ACCOMMODATE WALL FRAMING. POSTS SHALL BE EQUAL OR LARGE SIZE THAN BEAM WIDTH.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL TRUSS DIMENSIONS AND LOCATIONS BEFORE ORDERING TRUSSES. ENGINEER HAS ONLY VERIFIED SPECIFIC TRUSS MEMBERS FOR INTEGRATION WITH THE BUILDING DESIGN. NO DIMENSIONS HAVE BEEN CHECKED BY THE ENGINEER.
- ALL WOOD EXPOSED TO WATER FROM DIRECT OR BLOWING RAIN, SNOW, OR IRRIGATION TO BE PRESSURE TREATED.

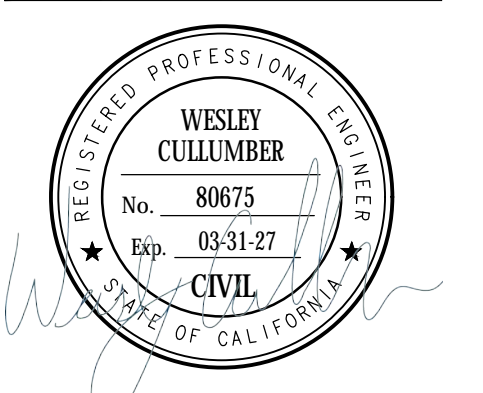
ROOF LEGEND

- BEAM PER BEAM SCHEDULE
- INTERIOR NON-BEARING WALL
- *NOTE: ALL EXTERIOR WALLS SHALL BE BEARING WALLS
- POST - SEE IN VIEW FOR POST SIZE AND TYPE.

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STRUCTURAL PLANS
MODEL B2
CITY OF ROCKLIN, CA

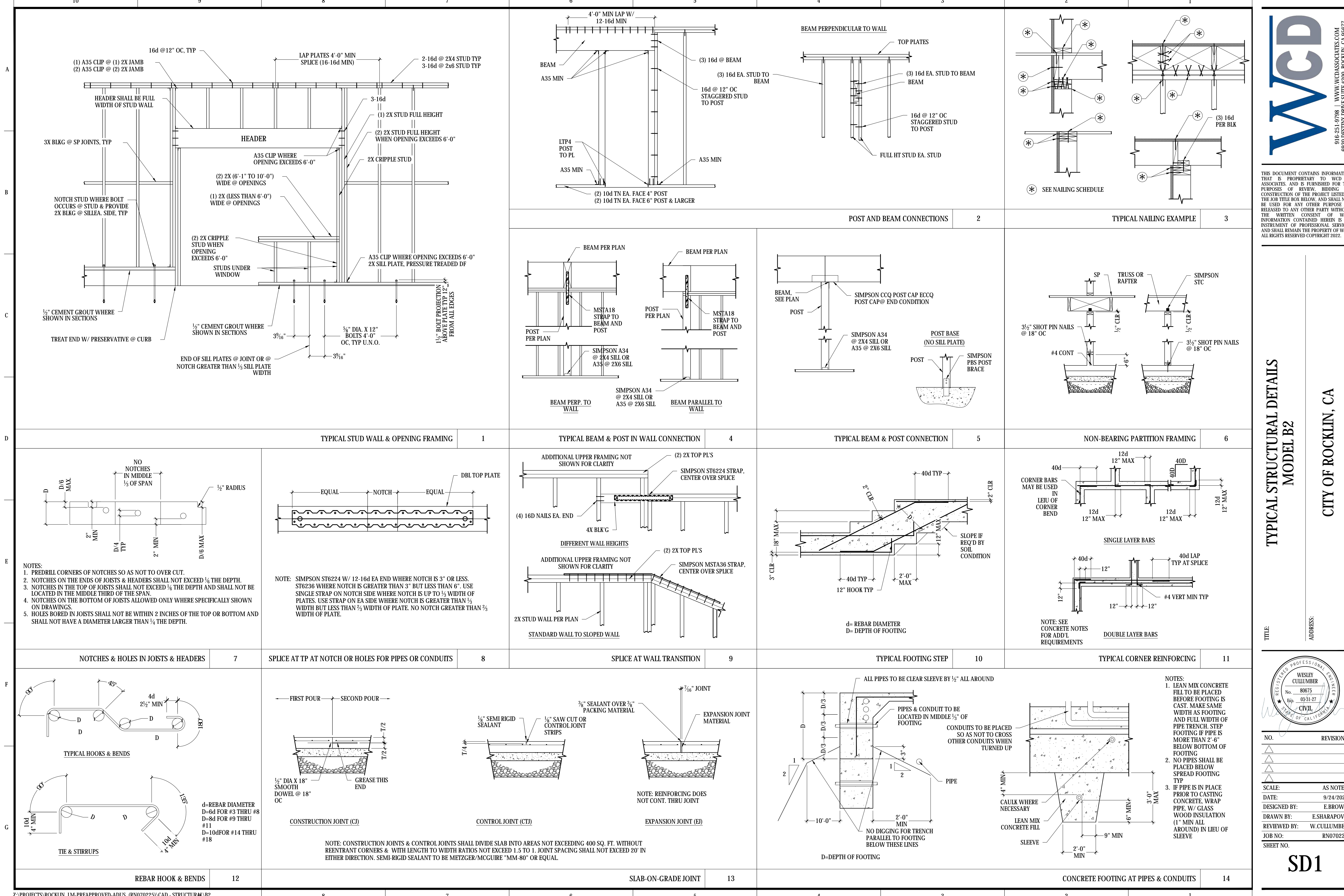
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NO.	REVISIONS

SCALE: AS NOTED
DATE: 9/24/2025
DESIGNED BY: E.BROWN
DRAWN BY: E.SHARAPOVA
REVIEWED BY: W.CULLUMBER
JOB NO: RN070225
SHEET NO.

S1.0



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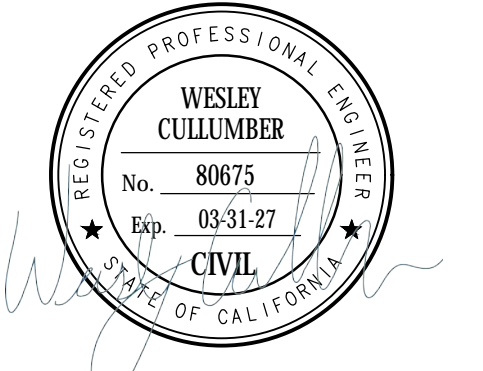
**TYPICAL STRUCTURAL DETAILS
 MODEL B2**
 CITY OF ROCKLIN, CA

TITLE: _____ ADDRESS: _____

NO.	REVISIONS

SCALE: AS NOTED
 DATE: 9/24/2025
 DESIGNED BY: E.BROWN
 DRAWN BY: E.SHARAPOVA
 REVIEWED BY: W.CULLUMBER
 JOB NO: RN070225
 SHEET NO.

SD1



CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model B ADU Unit 1 City of Rocklin
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2025-08-12T13:44:25-07:00
Input File Name: Model B ADU Unit 1 City of Rocklin.rbd22x

CF1R-PRF-01-E
(Page 1 of 10)

GENERAL INFORMATION			
01	Project Name	Model B ADU Unit 1 City of Rocklin	
02	Run Title	Title 24 Analysis	
03	Project Location	Model B ADU Unit 1	
04	City	Rocklin	Standards Version
05	Zip code	95677	Software Version
06	Climate Zone	11	EnergyPro 9.4
07	Front Orientation (deg/ Cardinal)	0	
08	Building Type	Single family	Number of Dwelling Units
09	Project Scope	Newly Constructed	Number of Bedrooms
10	Addition Cond. Floor Area (ft²)	0	Number of Stories
11	Existing Cond. Floor Area (ft²)	n/a	Fenestration Average U-factor
12	Total Cond. Floor Area (ft²)	749	Glazing Percentage (%)
13	ADU Bedroom Count	n/a	ADU Conditioned Floor Area
14	Fuel Type	All electric	No Dwelling Unit

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

Registration Number: 425-P010247792A-000-000-0000000-0000
 Registration Date/Time: 08/12/2025 19:52
 HERS Provider: CHEERS
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 Schema Version: rev 20220901
 Report Generated: 2025-08-12 13:44:50

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model B ADU Unit 1 City of Rocklin
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ENERGY USE INTENSITY				
	Standard Design (kBtu/ft² - yr)	Proposed Design (kBtu/ft² - yr)	Margin (kBtu/ft² - yr)	Margin Percentage
Gross EUI¹	31.48	28.71	2.77	8.8
Net EUI²	14.37	11.59	2.78	19.35

Notes
 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.
 2. Net EUI is Energy Use Total (including PV) / Total Building Area.

REQUIRED PV SYSTEMS											
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
2.47	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

REQUIRED SPECIAL FEATURES
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
<ul style="list-style-type: none"> Insulation below roof deck Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater, specific brand/model, or equivalent, must be installed

HERS FEATURE SUMMARY
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry
<ul style="list-style-type: none"> Indoor air quality ventilation Kitchen range hood Verified Refrigerant Charge Verified heat pump rated heating capacity

Registration Number: 425-P010247792A-000-000-0000000-0000
 Registration Date/Time: 08/12/2025 19:52
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CF1R-PRF-01-E
(Page 2 of 10)

ENERGY DESIGN RATINGS	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ² EDR (EDR2efficiency)	Total ² EDR (EDR2total)
	Standard Design	34.3	35.5	31.8		
Proposed Design	30.4	32.9	30	3.9	2.6	1.8
RESULT ³ : PASS						
¹ Efficiency EDR includes improvements like a better building envelope and more efficient equipment ² Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries ³ Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded						
<ul style="list-style-type: none"> Standard Design PV Capacity: 2.47 kWdc PV System resized to 2.47 kWdc (a factor of 2.471) to achieve 'Standard Design PV' PV scaling 						

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model B ADU Unit 1 City of Rocklin
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2025-08-12T13:44:25-07:00
Input File Name: Model B ADU Unit 1 City of Rocklin.rbd22x

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BUILDING - FEATURES INFORMATION						
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Model B ADU Unit 1 City of Rocklin	749	1	2	1	0	1

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Status
Unit 1	Conditioned	Res HVAC1	749	8	DHW Sys 1	New

OPAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft2)	Tilt (deg)
Front Wall	Unit 1	R-21 Wall	0	Front	291	97.68	90
Back Wall	Unit 1	R-21 Wall	180	Back	291	22	90
Right Wall	Unit 1	R-21 Wall	270	Right	201	30	90
Left Wall	Unit 1	R-21 Wall	90	Left	201	22	90
Attic	Unit 1	R-38+R-13 Attic	n/a	n/a	749	n/a	n/a

ATTIC							
01	02	03	04	05	06	07	08
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof
Attic Unit 1	Attic Roof/Unit 1	Ventilated	4	0.1	0.85	No	No

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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Input File Name: Model B ADU Unit 1 City of Rocklin.rbd22x

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ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft² - yr)	Standard Design TDV Energy (EDR2) (kTDV/ft² - yr)	Proposed Design Source Energy (EDR1) (kBtu/ft² - yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft² - yr)	Margin (EDR1)	Margin (EDR2)
Space Heating	5.82	39.49	4.92	38.02	0.9	1.47
Space Cooling	2.33	51.52	2.22	53.79	0.11	-2.27
IAQ Ventilation	0.46	4.92	0.46	4.92	0	0
Water Heating	3.57	35.53	2.13	25.06	1.44	10.47
Self Utilization/Flexibility Credit			0	0	0	0
Efficiency Compliance Total	12.18	131.46	9.73	121.79	2.45	9.67
Photovoltaics	-2.75	-91.13	-2.75	-91.19		
Battery			0	0		
Flexibility			0			
Indoor Lighting	0.96	9.55	0.96	9.55		
Appl. & Cooking	4.95	61.44	4.94	61.32		
Plug Loads	6.03	63.01	6.03	63.01		
Outdoor Lighting	0.21	1.93	0.21	1.93		
TOTAL COMPLIANCE	21.58	176.26	19.12	166.41		

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model B ADU Unit 1 City of Rocklin
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2025-08-12T13:44:25-07:00
Input File Name: Model B ADU Unit 1 City of Rocklin.rbd22x

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FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
F1 (2) WB	Window	Front Wall	Front	0			1	25	0.3	NFRC	0.23	NFRC	Bug Screen
F2 WAW10,D1W11,WA	Window	Front Wall	Front	0			1	56.68	0.3	NFRC	0.23	NFRC	Bug Screen
F3 (2) WC	Window	Front Wall	Front	0			1	16	0.3	NFRC	0.23	NFRC	Bug Screen
B1 WE	Window	Back Wall	Back	180			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
R1 WF	Window	Right Wall	Right	270			1	10	0.3	NFRC	0.23	NFRC	Bug Screen
R2 D5	Window	Right Wall	Right	270			1	20	0.3	NFRC	0.23	NFRC	Bug Screen
L1 WC	Window	Left Wall	Left	90			1	8	0.3	NFRC	0.23	NFRC	Bug Screen
L2 WC	Window	Left Wall	Left	90			1	8	0.3	NFRC	0.23	NFRC	Bug Screen
L3 WD	Window	Left Wall	Left	90			1	6	0.3	NFRC	0.23	NFRC	Bug Screen

OPAQUE DOORS			
01	02	03	04
Name	Side of Building	Area (ft²)	U-factor
Door	Back Wall	13	0.5

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CompuCalc
 Title 24 Compliance
 Elizabeth Smithwick
 Certified Energy Analyst

2022 Title 24 Part 6
 Energy Code

Sheet:
 T24-4
 Model B
 Unit 1

01	02	03	04	05	06	07	08
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade	Unit 1	749	123	none	0	80%	No

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-21 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.068	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Exterior Finish: All Other Siding
Attic RoofUnit 1	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-13	None / 0	0.078	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13.0 / 2x4 Around Roof Joists: R-0.0 insul.
R-38+R-13 Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	None / None	0.025	Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board

01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Not Required	Not Required	N/A	n/a	n/a

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01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)

01	02	03	04	05	06	07	08
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1	40	Generic	NEEA Tier 3 Generic 40	TankZone	Unit 1	Unit 1

01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

01	02	03	04	05	06	07	08
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name
Res HVAC1	Heat pump heating cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a

Registration Number: 425-P010247792A-000-000-0000000-0000
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01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Heating Efficiency Type	HSPF/HS Pl2/COP	Cap 47	Cap 17	Cooling Efficiency Type	SEER/SE ERZ	EER/EER 2/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	Multi-split HP-ductless	1	HSPF2	7.5	10900	6700	EER2SEER2	14.3	9	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump

01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EEER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE/ASRE	Includes Fault Indicator Display?	HERS Verification	Status
Sfam IAQVentRpt	44	0.35	Exhaust	No	n/a / n/a	No	Yes	

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I, I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Jeff Travis	Documentation Author Signature: <i>Jeff Travis</i>
Company: CompuCalc	Signature Date: 08/12/2025
Address: 5201 Coventry Dr Riverside, CA 92506	CEA/HERS Certification Identification (if applicable): R22-22-40100
City/State/Zip: Riverside, CA 92506	Phone: 530-268-8722
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.	
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	
3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
Responsible Designer Name: Laura Miller	Responsible Designer Signature: <i>Laura Miller</i>
Company: Laura Miller Design	Date Signed: 08/12/2025
Address: 889 Embarcadero Drive Suite 104 El Dorado Hills, CA 95762	License:
City/State/Zip: El Dorado Hills, CA 95762	Phone: 9166073321

Digitally signed by California Home Energy Efficiency Rating Services (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

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Schema Version: rev 20220901
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GENERAL INFORMATION	
01	Project Name: Model B ADU Unit 2 City of Rocklin
02	Run Title: Title 24 Analysis
03	Project Location: Model B ADU Unit 2
04	City: Rocklin
05	Standards Version: 2022
06	Zip code: 95677
07	Software Version: EnergyPro 9.4
08	Climate Zone: 11
09	Front Orientation (deg/ Cardinal): 0
10	Building Type: Single family
11	Number of Dwelling Units: 1
12	Project Scope: Newly Constructed
13	Number of Bedrooms: 2
14	Number of Stories: 1
15	Addition Cond. Floor Area (ft ²): 0
16	Existing Cond. Floor Area (ft ²): n/a
17	Fenestration Average U-factor: 0.3
18	Total Cond. Floor Area (ft ²): 749
19	Glazing Percentage (%): 21.19%
20	ADU Bedroom Count: n/a
21	ADU Conditioned Floor Area: n/a
22	Fuel Type: All electric
23	No Dwelling Unit: No

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

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ENERGY DESIGN RATINGS	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
Standard Design	34.3	34.5	31.5			
Proposed Design	30.4	32.3	30	3.9	2.2	1.5
RESULT ³ : PASS						
¹ Efficiency EDR includes improvements like a better building envelope and more efficient equipment						
² Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries						
³ Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded						
• Standard Design PV Capacity: 2.40 kWdc						
• PV System resized to 2.40 kWdc (a factor of 2.404) to achieve 'Standard Design PV' PV scaling						

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2022 Title 24 Part 6
Energy Code

Sheet:
T24-5
Model B
Units 1
& 2

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model B ADU Unit 2 City of Rocklin
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2025-08-12T16:12:16-07:00
Input File Name: Model B ADU Unit 2 City of Rocklin.rbd22x

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Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (KTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (KTDV/ft ² -yr)	Margin (EDR1)	Margin (EDR2)
Space Heating	5.93	40.24	4.77	36.86	1.16	3.38
Space Cooling	2.04	45.99	2.19	51.74	-0.15	-5.75
IAQ Ventilation	0.46	4.92	0.46	4.92	0	0
Water Heating	3.58	35.57	2.13	25.07	1.45	10.5
Self Utilization/Flexibility Credit			0	0	0	0
Efficiency Compliance Total	12.01	126.72	9.55	118.59	2.46	8.13
Photovoltaics	-2.67	-88.7	-2.67	-88.79		
Battery			0	0		
Flexibility			0			
Indoor Lighting	0.96	9.55	0.96	9.55		
Appl. & Cooking	4.95	61.4	4.94	61.31		
Plug Loads	6.03	63.01	6.03	63.01		
Outdoor Lighting	0.21	1.93	0.21	1.93		
TOTAL COMPLIANCE	21.49	173.91	19.02	165.6		

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01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
F1 (2) WB	Window	Front Wall	Front	0			1	25	0.3	NFRC	0.23	NFRC	Bug Screen
F2 WA,W10,D1,W11,WA	Window	Front Wall	Front	0			1	56.68	0.3	NFRC	0.23	NFRC	Bug Screen
F3 (2) WC	Window	Front Wall	Front	0			1	16	0.3	NFRC	0.23	NFRC	Bug Screen
B1 WE	Window	Back Wall	Back	180			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
R1 WF	Window	Right Wall	Right	270			1	10	0.3	NFRC	0.23	NFRC	Bug Screen
R2 DS	Window	Right Wall	Right	270			1	20	0.3	NFRC	0.23	NFRC	Bug Screen
L1 WC	Window	Left Wall	Left	90			1	8	0.3	NFRC	0.23	NFRC	Bug Screen
L2 WC	Window	Left Wall	Left	90			1	8	0.3	NFRC	0.23	NFRC	Bug Screen
L3 WD	Window	Left Wall	Left	90			1	6	0.3	NFRC	0.23	NFRC	Bug Screen

01	02	03	04
Name	Side of Building	Area (ft ²)	U-factor
Door	Back Wall	13	0.5

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Calculation Description: Title 24 Analysis

Calculation Date/Time: 2025-08-12T16:12:16-07:00
Input File Name: Model B ADU Unit 2 City of Rocklin.rbd22x

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Energy Use Intensity	Standard Design (kBtu/ft ² -yr)	Proposed Design (kBtu/ft ² -yr)	Margin (kBtu/ft ² -yr)	Margin Percentage
Gross EUI ¹	31.15	28.38	2.77	8.89
Net EUI ²	14.5	11.73	2.77	19.1

Notes
1. Gross EUI is Energy Use Total (not including PV) / Total Building Area.
2. Net EUI is Energy Use Total (including PV) / Total Building Area.

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
2.4	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

REQUIRED SPECIAL FEATURES
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- Insulation below roof deck
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

HERS FEATURE SUMMARY
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

- Indoor air quality ventilation
- Kitchen range hood
- Verified Refrigerant Charge
- Verified heat pump rated heating capacity

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model B ADU Unit 2 City of Rocklin
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2025-08-12T16:12:16-07:00
Input File Name: Model B ADU Unit 2 City of Rocklin.rbd22x

CF1R-PRF-01-E
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01	02	03	04	05	06	07	08
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade	Unit 2	749	123	none	0	80%	No

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-21 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.068	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Exterior Finish: All Other Siding
Attic Roof/Unit 2	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-13	None / 0	0.078	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13.0 / 2x4 Around Roof Joists: R-0.0 Insul.
R-38+R-13 Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	None / None	0.025	Over Ceiling Joists: R-28.9 Insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board

01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Not Required	Not Required	N/A	n/a	n/a

Registration Number: 425-P010247798A-000-000-0000000-0000
Registration Date/Time: 2025-08-12T16:12:16-07:00
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01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Heating Efficiency Type	HSPF/HS PF2/CDP	Cap 47	Cap 17	Cooling Efficiency Type	SEER/SEER2	EER/EEER2/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	Multi-split HP-ductless	1	HSPF2	7.5	10900	6700	EER2SEER2	14.3	9	Not Zonal	Single Speed	Heat Pump System 1-HERS-Hpump

01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EEER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-HERS-Hpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE/ASRE	Includes Fault Indicator Display?	HERS Verification	Status
5Fam IAQVentRpt	44	0.35	Exhaust	No	n/a / n/a	No	Yes	

Registration Number: 425-P010247798A-000-000-0000000-0000
Registration Date/Time: 08/12/2025 19:52
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model B ADU Unit 2 City of Rocklin
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01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Model B ADU Unit 2 City of Rocklin	749	1	2	1	0	1

01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status
Unit 2	Conditioned	Res HVAC1	749	8	DHW Sys 1	New

01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft ²)	Tilt (deg)
Front Wall	Unit 2	R-21 Wall	0	Front	291	97.68	90
Back Wall	Unit 2	R-21 Wall	180	Back	291	22	90
Right Wall	Unit 2	R-21 Wall	270	Right	201	30	90
Left Wall	Unit 2	R-21 Wall	90	Left	201	22	90
Attic	Unit 2	R-38+R-13 Attic	n/a	n/a	749	n/a	n/a

01	02	03	04	05	06	07	08
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof
Attic Unit 2	Attic Roof/Unit 2	Ventilated	0	0.1	0.85	No	No

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01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater (#)
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)

01	02	03	04	05	06	07	08
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1	40	Generic	NEEA Tier 3 Generic 40	TankZone	Unit 2	Unit 2

01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

01	02	03	04	05	06	07	08
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name
Res HVAC1	Heat pump heating cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a

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01	02	03	04	05	06	07	08
Name	System Type	Number of Units	Heating Efficiency Type	HSPF/HS PF2/CDP	Cap 47	Cap 17	Cooling Efficiency Type
Heat Pump System 1	Multi-split HP-ductless	1	HSPF2	7.5	10900	6700	EER2SEER2

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I, I certify that this Certificate of Compliance documentation is accurate and complete.
Documentation Author Name: Jeff Travis
Signature: Jeff Travis
Date Signed: 08/12/2025
Company: CompuCalc
Address: 5201 Coventry Dr
City/State/Zip: Riverside, CA 92506
Phone: 530-268-8722

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with the building permit application.
Responsible Designer Name: Laura Miller
Signature: Laura Miller
Date Signed: 08/12/2025
Company: Laura Miller Design
Address: 889 Embarcadero Drive Suite 104
City/State/Zip: El Dorado Hills, CA 95762
Phone: 9166073321

Digitally signed by California Home Energy Efficiency Rating Services (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

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CompuCalc
Title 24 Compliance
Elizabeth Smithwick
Certified Energy Analyst

2022 Title 24 Part 6
Energy Code

From Section 150.0(o) G. Local mechanical exhaust

Local mechanical exhaust. A local mechanical exhaust system shall be installed in each kitchen and bathroom. Systems shall be rated for airflow in accordance with ASHRAE 62.2 Section 7.1.

- Nonenclosed kitchens shall have a demand-controlled mechanical exhaust system meeting the requirements of Section 150.0(o)(1)(i).
- Enclosed kitchens and all bathrooms shall have either one of the following alternatives a or b:
 - A demand-controlled mechanical exhaust system meeting the requirements of Section 150.0(o)(1)(i).
 - A continuous mechanical exhaust system meeting the requirements of Section 150.0(o)(1)(iv).
- Demand-controlled mechanical exhaust. A local mechanical exhaust system shall be designed to be operated as needed.
 - Control and operation. Demand-controlled mechanical exhaust systems shall be provided with at least one of the following controls:
 - A readily accessible occupant-controlled ON-OFF control.
 - An automatic control that does not impede occupant ON control.
 - Ventilation rate and capture efficiency. The system shall meet or exceed either the minimum airflow in accordance with Table 150.0-E or the minimum capture efficiency in accordance with Table 150.0-E, and Table 150.0-G. Capture efficiency ratings shall be determined in accordance with ASTM E3087 and listed in a product directory approved by the Energy Commission.
- Continuous mechanical exhaust. A mechanical exhaust system shall be installed to operate continuously. The system may be part of a balanced mechanical ventilation system.
 - Control and operation. A manual ON-OFF control shall be provided for each continuous mechanical exhaust system. The system shall be designed to operate during all occupiable hours. The ON-OFF control shall be accessible to the dwelling unit occupant.
 - Ventilation rate. The minimum delivered ventilation shall be at least the amount indicated in Table 150.0-F during each hour of operation.
- Airflow measurement of local mechanical exhaust by the system installer. The airflow required by Section 150.0(o)(1)(i) is the quantity of indoor air exhausted by the ventilation system as installed in the dwelling unit. When a vented range hood utilizes a capture efficiency rating to demonstrate compliance with Section 150.0(o)(1)(i), the airflow listed in the approved directory corresponding to the compliant capture efficiency rating point shall be met by the installed system. The as-installed airflow shall be verified by the system installer to ensure compliance by use of either Subsection a or b below:
 - The system installer shall measure the airflow by using a flow hood, flow grid or other airflow measuring device at the mechanical ventilation fan/EMS inlet terminals/grilles or outlet terminals/grilles in accordance with the procedures in Reference Residential Appendix RA3.7.
 - As an alternative to performing an airflow measurement of the system as installed in the dwelling unit, compliance may be demonstrated by installing an exhaust fan and duct system that conforms to the specifications of Table 150.0-H. Visual inspection shall verify the installed system conforms to the requirements of Table 150.0-H.

When using Table 150.0-H for demonstrating compliance, the airflow rating shall be greater than or equal to the value required by Section 150.0(o)(1)(i) at a static pressure greater than or equal to 0.25 in. of water (62.5 Pa). When a vented range hood utilizes a capture efficiency rating to demonstrate compliance with Section 150.0(o)(1)(i), a static pressure greater than or equal to 0.25 in. of water at the rating point shall not be required, and the airflow listed in the approved directory corresponding to the compliant capture efficiency rating point shall be applied to Table 150.0-H for determining compliance.

Use of Table 150.0-H is limited to ventilation systems that conform to all of the following three specifications:

- Total duct length is less than or equal to 25 ft (8 m).
- Duct system has not more than three elbows, and
- Duct system has exterior termination fitting with a hydraulic diameter greater than or equal to the minimum duct diameter and not less than the hydraulic diameter of the fan outlet.

Table 150.0-G Kitchen Range Hood Airflow Rates (cfm) and ASTM E3087 Capture Efficiency (CE) Ratings According to Dwelling Unit Floor Area and Kitchen Range Fuel Type

Dwelling Unit Floor Area (ft ²)	Hood Over Electric Range	Hood Over Natural Gas Range
<1500	50% CE or 110 CFM	70% CE or 180 CFM
>1000 <1500	50% CE or 110 CFM	80% CE or 250 CFM
750 - 1000	55% CE or 110 CFM	85% CE or 280 CFM
<750	65% CE or 110 CFM	85% CE or 280 CFM

From Section 150.0 (n) (s)(1)(v)(v) – MANDATORY FEATURES AND DEVICES

- Water heating system.**
 - Systems using gas or propane water heaters to serve individual dwelling units shall designate a space at least 2.5 feet by 2.5 feet tall suitable for the future installation of a heat pump water heater (HPWH) by meeting either a A or B below. All electrical components shall be installed in accordance with the California Electrical Code.
 - If the designated space is within 3 feet from the water heater, then this space shall include the following:
 - A dedicated 125 volt, 20 amp electrical receptacle that is connected to the electric panel with a 120/240 volt 3 conductor, 10 AWG copper branch circuit, within 3 feet from the water heater and accessible to the water heater with no obstructions; and
 - Both ends of the unused conductor shall be labeled with the words "space" and be electrically isolated; and
 - A reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker for the branch circuit in A above and labeled with the words "Future 240V Use"; and
 - A condensate drain that is no more than 2 inches higher than the base of the installed water heater, and allows natural draining with pump assistance.
 - If the designated space is more than 3 feet from the water heater, then this space shall include the following:
 - A dedicated 240 volt branch circuit shall be installed within 3 feet from the designated space. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready"; and
 - The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future HPWH installation. The reserved space shall be permanently marked as "For Future 240V use"; and
 - Either a dedicated cold water supply, or the cold water supply shall pass through the designated HPWH location just before reaching the gas or propane water heater; and
 - The hot water supply pipe coming out of the gas or propane water heater shall be routed first through the designated HPWH location before serving any fixtures; and
 - The hot and cold water piping at the designated HPWH location shall be exposed and readily accessible for future installation of an HPWH; and
 - A condensate drain that is no more than 2 inches higher than the base of the installed water heater, and allows natural draining without pump assistance.
- Energy Storage Systems (ESS) ready.** All single-family residences that include one or two dwelling units shall meet the following. All electrical components shall be installed in accordance with the *California Electrical Code*:
 - At least one of the following shall be provided:
 - ESS ready interconnection equipment with a minimum backed-up capacity of 60 amps and a minimum of four ESS-supplied branch circuits, or
 - A dedicated raceway from the main service to a panelboard (subpanel) that supplies the branch circuits in Section 150.0(g)(2). All branch circuits are permitted to be supplied by the main service panel prior to the installation of an ESS. The trade size of the raceway shall be not less than one inch. The panelboard that supplies the branch circuits (subpanel) must be labeled "Subpanel shall include all backed-up load circuits."
 - A minimum of four branch circuits shall be identified and have their source of supply collocated at a single panelboard suitable to be supplied by the ESS. At least one circuit shall supply the refrigerator, one lighting circuit shall be located near the primary egress, and at least one circuit shall supply a sleeping room receptacle outlet.
 - The main panelboard shall have a minimum busbar rating of 225 amps.
 - Sufficient space shall be reserved to allow future installation of a system isolation equipment/transfer switch within 3 feet of the main panelboard. Raceways shall be installed between the panelboard and the system isolation equipment/transfer switch location to allow the connection of backup power source.



2022 Single-Family Residential Mandatory Requirements Summary

(NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. 04/2022)

Building Envelope:

§ 110.6(a)(1)	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC 400, ASTM E283, or AAMAWD/MCA 101/1.5 2/4/40-2011.*
§ 110.6(a)(5)	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b)	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6(a), 110.6(b), or J4415 for exterior doors. They must be caulked and/or weather-stripped.
§ 110.7	Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a)	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (EHSG).
§ 110.8(a)	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(a).
§ 110.8(b)	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(b) and be labeled per § 10-113 when the installation of a cool roof is specified on the CF-19.
§ 110.8(b)	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a)	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 6-16 area-weighted average U-factor not exceeding U0.194. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling, or area-weighted average U-factor must not exceed 0.045. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Also access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling, which is sealed to limit infiltration and exfiltration, as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.
§ 150.0(b)	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c)	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor 0.071 or less. Openage non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B.*
§ 150.0(d)	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.*
§ 150.0(f)	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent, have a water vapor permeance no greater than 2.0 perm per inch, be protected from physical damage and UV light deterioration, and, when installed as part of a heated slab floor, meet the requirements of § 110.8(b).
§ 150.0(g)(1)	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to § 150.0(g)(2).
§ 150.0(g)(2)	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(g)	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45, or area-weighted average U-factor of all fenestration must not exceed 0.45.

Fireplaces, Decorative Gas Appliances, and Gas Log:

§ 110.5(e)	Pilot Lights. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)(1)	Closet Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)(2)	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and light-tighting damper or combustion-air control device.
§ 150.0(e)(3)	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*

Space Conditioning, Water Heating, and Plumbing System:

§ 110.5-110.3	Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
§ 150.0(a)	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A, through Table 110.2-I.*
§ 110.2(b)	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
§ 110.2(c)	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.*
§ 110.3(a)(3)	Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.
§ 110.3(a)(6)	Isolation Valves. Instantaneous water heaters with an input rating greater than 6 Btu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

5/6/22

- Heat pump space heater ready.** Systems using gas or propane furnace to serve individual dwelling units shall include the following:
 - A dedicated 240 volt branch circuit wiring shall be installed within 3 feet from the furnace and accessible to the furnace with no obstructions. The branch circuit conductors shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready." All electrical components shall be installed in accordance with the California Electrical Code.
 - The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future heat pump space heater installation. The reserved space shall be permanently marked as "For Future 240V use."
- Electric cooktop ready.** Systems using gas or propane cooktop to serve individual dwelling units shall include the following:
 - A dedicated 240 volt branch circuit wiring shall be installed within 3 feet from the cooktop and accessible to the cooktop with no obstructions. The branch circuit conductors shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready." All electrical components shall be installed in accordance with the California Electrical Code.
 - The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future electric cooktop installation. The reserved space shall be permanently marked as "For Future 240V use."
- Electric clothes dryer ready.** Clothes dryer locations with gas or propane plumbing to serve individual dwelling units shall include the following:
 - A dedicated 240 volt branch circuit wiring shall be installed within 3 feet from the clothes dryer location and accessible to the clothes dryer location with no obstructions. The branch circuit conductors shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready." All electrical components shall be installed in accordance with the California Electrical Code.
 - The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future electric clothes dryer installation. The reserved space shall be permanently marked as "For Future 240V use."

NOTE: PV Solar is designed to have a minimum of 2.40 kW per Model B ADUs with no shading over the solar panels. Azimuth 150–270 degrees, tilt is less than 7:12. If there parameters cannot be met, please advise by calling CompuCalc at (530) 268-8722.



2022 Single-Family Residential Mandatory Requirements Summary

§ 110.5	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas, fan-type central furnaces, household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour), and pool and spa heaters.
§ 150.0(n)(1)	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume, the SMACNA Residential Comfort System Installation Standards Manual, or the ACCA Manual of Load Estimation design conditions specified in § 150.0(h)(2).
§ 150.0(n)(3A)	Cleanances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(n)(3B)	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(n)	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code.*
§ 150.0(n)(2)	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by § 120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-rotatable casing or sleeve.
§ 150.0(n)(1)	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, include electrical and plumbing requirements, based on the distance between its designated space and the water heater location; and a condensate drain no more than 2" higher than the base of the water heater.
§ 150.0(n)(3)	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and labeled by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO RRT), or by a listing agency that is approved by the executive director.

Ducts and Fans:

§ 110.9(a)(3)	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(n)(3)	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SFACNA-006-2006 HVAC Duct Construction Standards: Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher, ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.14.3) do not require insulation. Connections of metal ducts and inner cores of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and tape must be used to seal openings greater than 1/4", if mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be compressed.*
§ 150.0(n)(1)	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(n)(3)	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for pressure-sensitive tapes, seals, mastics, and other requirements specified for duct construction.
§ 150.0(n)(7)	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(n)(8)	Gravity Ventilation Dampers. Gravity ventilation systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(n)(9)	Protection of Insulation. Insulation must be protected from damage due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, steel metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(n)(10)	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous taper or air barrier between the inner core and outer wrap fabric.
§ 150.0(n)(11)	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(n)(12)	Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in § 150.0(n)(12). Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to prevent air from bypassing the filter.*

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§ 150.0(h)(1)(G)	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix J49.*
§ 150.0(h)(1)(H)	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the J49 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(h)(1)(I)	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A, but for single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.
§ 150.0(h)(2A)	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(h)(2B)	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems.*
§ 150.0(h)(2A)	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off.*
§ 150.0(h)(2B)	Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(h).
§ 150.0(h)(2C)	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(h)(2D)	Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(h)(2A).
§ 150.0(h)(2E)	Automatic Shutoff Controls. In bedrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 150.0(h)(2F)	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have dimmable accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(h)(2K)	Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(h)(3A)	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.
§ 150.0(h)(4)	Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(h)(5)	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
Clear Readiness:	
§ 110.10(a)(1)	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)(4).
§ 110.10(b)(1A)	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 40 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet.*
§ 110.10(b)(2)	Azimuth. All sections of the solar zone located on sleep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)(3A)	Shading. The solar zone must not contain any obstructions, including but not limited to vents, chimneys, architectural features, and roof-mounted equipment.
§ 110.10(b)(3B)	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.*
§ 110.10(b)(4)	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(d)	Interconnection Pathways. The construction documents must include a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.10(d)	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.
§ 110.10(e)(1)	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)(2)	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

Electric and Energy Storage Ready:

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§ 150.0(n)(3)	Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.28 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3.*
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Ventilation and Indoor Air Quality:

§ 150.0(n)(1)	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(e)(1)*.
§ 150.0(n)(1B)	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per § 150.0(e)(1). A motorized damper(s) must be installed on the ventilated duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per § 150.0(e)(1)(ii)(ii). CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with § 150.0(e)(1)(C).
§ 150.0(n)(1C)	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(e)(1)(C)(ii).
§ 150.0(n)(1G)	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust, nonrecirculated kitchens must have demand-controlled exhaust system meeting requirements of § 150.0(e)(1)(G), enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting § 150.0(e)(1)(G)-iv. Airflow must be measured by the installer per § 150.0(e)(1)(G), and rated for sound per § 150.0(e)(1)(G).*
§ 150.0(n)(1)(H)	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(e)(1)(C) must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/signals per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 § 7.2 at no less than the minimum airflow rate required by § 150.0(e)(1)(C).
§ 150.0(n)(2)	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HWI or AHAM to comply with the airflow rates and sound requirements per § 150.0(e)(1)(G).

Pool and Spa Systems and Equipment:

§ 110.4(a)	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following compliance with the Appliance Efficiency Regulations and listing in MADES, an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting, a permanent weatherproof plate or cover with the instructions, and must not use electric resistance heating.*
§ 110.4(b)(1)	Piping. Any pool or spa heating system or equipment must be installed with all least 3/8 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in pump connectors to allow for future solar heating.
§ 110.4(b)(2)	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)(3)	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(g)	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.*