A NEW ACCESSORY DWELLING UNIT PROJECT FOR:

# SACRAMENTO COUNTY PERMIT READY ADU (ACCESSORY DWELLING UNIT) PLANS MODEL D MAGNOLIA

SCOPE OF WORK:

CONSTRUCT NEW 1,184 S.F. ACCESSORY DWELLING UNIT.

- SLAB FOUNDATION

- 2X6 EXTERIOR WALLS W/ STUCCO OR FIBER CEMENT LAP SIDING EXTERIOR FINISH - PRE-FABRICATED TRUSS ROOF WITH ASPHALT SHINGLE ROOFING - VINYL WINDOWS

- HYBRID ELECTRIC WATER HEATER

UTILITY NOTES:

- NO GAS TO BE INSTALLED IN ADU

- PROPOSED ADU TO TIE INTO (E) MAIN WATER LINE - PROPOSED 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:

MODIFICATION 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 COUNTY OF SACRAMENTO

SEE ALSO FIRE SPRINKLER INFORMATION BLOCK NOTE @ RIGHT OF THIS SHEET.

DEFERRED SUBMITTALS:

- FIRE SPRINKLERS (AS NEEDED) - PHOTOVOLTAIC SYSTEM

PV INSTALLATION REQUIRED UNDER SEPARATE PERMIT; PER ENERGY T24, Standard Design PV Capacity: 2.47 kWdc min. \*\*NOTE: PV system permit must be approved and issued prior to "104 Frame Inspection" of this dwelling permit. A "Final Hold" Condition will be placed on dwelling permit requiring Final of PV installation prior to or at time of Final Inspection of this permit.

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 SUMITTAL 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

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.

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

Sheet Number	Sheet Name
A-0.0	TITLE SHEET
A-0.1	CALGREEN CHECKLIST
A-0.2	CALGREEN CHECKLIST CONT.
A-1.0	FLOOR PLAN
A-1.1	ROOF PLAN
A-1.2	POWER PLAN
A-2.0	EXTERIOR ELEVATIONS
A-3.0	STUCCO SECTION DETAILS
A-3.1	STUCCO PLAN DETAILS
A-3.2	LAP SIDING SECTION DETAILS
A-3.3	LAP SIDING PLAN DETAILS
A-3.4	FIRE DETAILS
S1.0	FOUNDATION & SHEAR WALL PLAN
S2.0	SHEARWALL PLAN
S3.0	ROOF FRAMING PLAN
SD1	STRUCTURAL DETAILS
SD2	STRUCTURAL DETAILS
SD3	STRUCTURAL DETAILS
SN1	STRUCTURAL NOTES & SPECIFICATIONS
T24-1	2019 TITLE 24 PART 6 ENERGY CODE
T24-2	2019 TITLE 24 PART 6 ENERGY CODE
T24-3	2019 TITLE 24 PART 6 ENERGY CODE

PROJECT DATA: CUSTOMER ADDRESS

COMPLETED PROJECT.

SETBACK REQUIREMENTS:



2 SETBACK KEY N.T.S.

	OVERHANG SETBACK W/ 1-HR. FIRE RESISTANCE RATING
SIDE PROPERTY LINE	LINE OF ROOF OVERHANG ABOVE
     	MIN. OVERHANG SETBACK W/ NO FIRE RESISTANCE RATING
     RED)	MIN. OVERHANG SETBACK W/ 1-HR. FIRE RESISTANCE RATING
⊭ < D)   	
	TO CONFORM W LOCAL OVERHANG SETBACK ORDINANCE - CONTACT PLANNING DEPARTMENT

- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:

- 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

MIN. OVERHANG SETBACK W/ NO FIRE RESISTANCE RATING

L.M LAURA MILLER DESIGN #Actiletifice + Interna 889 Embarcadero Drive, Suite 102 El Dorado Hills, Co 95762 Iaura@lauramiller-design.com Jauramiller-design.com 916.607.3321
SACRAMENTO COUNTY PERMIT READY ADU (ACCESSORY DWELLING UNIT) PLANS MODEL D
No. Date Description
Scale: N.T.S. Date: MAR 2024 Drawn By: LM Approved By: OWNERS Sheet Number:

A-0.0

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

Y N/A RESPON. PARTY		¥ □	1	ESPON. PARTY	4.106.4.2 New multifamily
	GREEN BUILDING SECTION 301 GENERAL		~		When parking is provided, requirements of Sections 4 whole number. A parking s
	<b>301.1 SCOPE.</b> 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.		N		space shall count as at least applicable minimum parking for further details. 4.106.4.2.1Multifamily dev
	<b>301.1.1 Additions and alterations. [HCD]</b> 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.		×		than 20 sleeping units or The number of dwelling unit this section.
	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.				1.EV Capable. Ten ( of parking facilities, s EVSE. Electrical load system, including an EVs at all required E
	<b>Note:</b> 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.				The service panel or for future EV chargin
	<b>Note:</b> 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				Exceptions: 1.When EV charg
	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.				of EV capable sp 2.When EV charg spaces, the nu
	<b>301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD]</b> 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.				EV chargers ir Notes: a.Construction do future EV chargin
	SECTION 302 MIXED OCCUPANCY BUILDINGS				b.There is no req EV chargers are i
	<b>302.1 MIXED OCCUPANCY BUILDINGS.</b> In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. Exceptions:				<b>2.EV Ready</b> . Twenty Level 2 EV charging dwelling unit when m
	<ol> <li>[HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable.</li> <li>[HCD] For purposes of <i>CAL</i>Green, live/work units, complying with Section 419 of the <i>California</i> <i>Rulding</i> Code, abolt paths appendix descupancies. Live/Work units abolt appendix with</li> </ol>				Exception: Areas of
	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:		×		4.106.4.2.2 Multifamily de sleeping units or guest ro The number of dwelling uni this section.
	HCD       Department of Housing and Community Development         BSC       California Building Standards Commission         DSA-SS       Division of the State Architect, Structural Safety         OSHPD       Office of Statewide Health Planning and Development         LR       Low Rise				<b>1.EV Capable</b> . Ten ( of parking facilities, s EVSE. Electrical load system, including an EVs at all required E
	HR     High Rise       AA     Additions and Alterations       N     New				The service panel or for future EV charging
					Exception: When parking spaces re reduced by a nun
	RESIDENTIAL MANDATORY MEASURES				Notes:
	SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)				a.Construction do
	<b>FRENCH DRAIN.</b> A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.				EV chargers are i
	<b>WATTLES.</b> 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.				Level 2 EV charging dwelling unit when m Exception: Areas
X 🗆 GC/	<b>4.106 SITE DEVELOPMENT</b> <b>4.106.1 GENERAL</b> . Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes,				3.EV Chargers. Five Where common use area and shall be av
⊠ □ GC/ OWNEI	<ul> <li>Management of storm water drainage and erosion controls shall comply with this section.</li> <li>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.</li> </ul>				When low power Lev an automatic load m capacity to each spa shall have sufficient served by the ALMS have a capacity of no
	<ol> <li>Retention basins of sufficient size shall be utilized to retain storm water on the site.</li> <li>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.</li> </ol>				capacity to the require 4.106.4.2.2.1 Electric vehicle charging
	<ol> <li>Compliance with a lawfully enacted storm water management ordinance.</li> <li>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.</li> </ol>				Exception: Electric vel shall not be required to requirements.
	(Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)				4.106.4.2.2.1.1 Locatio EVCS shall comply with
IX 🗆 GC/ OWNEI	<ul> <li>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:</li> </ul>				1.The charging spa the California Build
	<ol> <li>Swales</li> <li>Water collection and disposal systems</li> </ol>				2.The charging spa Chapter 2, to the b
	<ol> <li>French drains</li> <li>Water retention gardens</li> <li>Other water measures which keep surface water away from buildings and aid in groundwater recharge</li> </ol>				Exception: Electric Building Code, Cha 4.106.4.2.2.1.2, Ite
	recharge. Exception: Additions and alterations not altering the drainage path.				4.106.4.2.2.1.2 Electric The charging spaces s
	<b>4.106.4 Electric vehicle (EV) charging for new construction.</b> 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 <i>California Electrical Code</i> , Article 625.				1.The minimum lengt
	Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and				3.One in every 2 char aisle. / 5-foot (152 m
	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.				12 feel 30s (sam).
	<ol> <li>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.</li> <li>2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.</li> </ol>				percent sine) in any of 1006.4.2 .1.3 Access In additic to the require complexith the accessi spaces and EVCS in mo
	<b>4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages.</b> 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				1109A. <b>4.106.4.2.3 EV space r</b> 1.Single EV space requi
	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				circuit. The raceway sha originate at the main se proximity to the location
	208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.				proximity to the location raceway termination poi have a 40-ampere minir installed, or space(s) res
	Exemption: 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 <i>California Electrical Code</i> .				Installed, or space(s) res Exception: A raceway installed in close proxi construction in accord
	<b>4.106.4.1.1 Identification.</b> 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".				2.Multiple EV spaces re location of installed or fu information on amperag
	IIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFOR				electrical load calculatio raceways and related co concealed areas and sp

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Y N/A RESPON. PARTY BARTY STATES FOR A STATE OF A STATE	circuit is			
PARTY construction in accordance with the California Electrical Code.		YN	I/A R	PAR
y dwellings, hotels and motels and new residential parking facilities. parking spaces for new multifamily dwellings, hotels and motels shall meet the 4.106.4.2.4 Identification.			X	_
space served by electric vehicle supply equipment or designed as a future EV charging future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.	eserved for			
And space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 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 C Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its	Caltrans			
velopment projects with less than 20 dwelling units; and hotels and motels with less successor(s).				
hits, sleeping units or guest rooms shall be based on all buildings on a project site subject to A.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.	50			
(10) percent of the total number of parking spaces on a building site, provided for all types shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2	idded or			
d calculations shall demonstrate that the electrical panel service capacity and electrical ny on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EV spaces at a minimum of 40 amperes.			_	GC
r subpanel circuit directory shall identify the overcurrent protective device space(s) reserved ng purposes as "EV CAPABLE" in accordance with the California Electrical Code.	ting future			٥V
2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed <b>DIVISION 4.2</b> ENERGY EFFICIENCY	for use.			GC
gers (Level 2 EVSE) are installed in a number equal to or greater than the required number baces.				0
gers (Level 2 EVSE) are installed in a number less than the required number of EV capable Commission will continue to adopt mandatory standards.	inergy			
umber of EV capable spaces required may be reduced by a number equal to the number of nstalled.				
ocuments are intended to demonstrate the project's capability and capacity for facilitating $ X  \square  GC $ 4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures in the closets (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)				
OWNER OWNER and 4.303.4.4.	1.303.1.3,			
installed for use. In the completion control of the completion control of the completion control of the control	final	<b>X</b>		GC OV
y-five (25) percent of the total number of parking spaces shall be equipped with low power preceptacles. For multifamily parking facilities, no more than one receptacle is required per more than one parking space is provided for use by a single dwelling unit.				
<b>4.303.1.1 Water Closets.</b> The effective flush volume or at water insert shall not exceed 1.28 gallor flush. Tank-type water closets shall be certified to the performance chieria of the U.S. EPA WaterSet				
evelopment projects with 20 or more dwelling units, hotels and motels with 20 or more of the second and the based on all buildings on a project site subject to the second and the based on all buildings on a project site subject to the second secon	sh volume			
of two reduced flushes and one full use				
(10) percent of the total number of parking spaces on a building site, provided for all types shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 and calculations shall demonstrate that the electrical panel service capacity and electrical 4.303.1.2 Urinals. The effective flucture flucture flucture flucture of all other urinals shall not exceed 0.125 gallons per flucture.	is per flush.			G
4.303.1.3 Showerheads. 4.303.1.3 Showerheads. 4.303.1.3 Showerheads. 4.303.1.3 Showerheads shall have a maximum flow rate of not more	than 1.8			ÖV
r subpanel circuit directory shall identify the overcurrent protective device space(s) reserved ng purposes as "EV CAPABLE" in accordance with the California Electrical Code.				
4.303	olled by		_	G( OV
a sin le valve sha not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed in the number of EV chargers installed over the five (5) percent required.	ed to only			50
Note: A hand-held shower shall be considered a showerhead.         Socuments shall show locations of future EV spaces.         4 03.1.4 Fa cets.				
uirement for EV spaces to be constructed or available until receptacles for EV charging or installed for use				
y-five (25) percent of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of the total number of parking spaces shall be equipped with low power of total number of parking spaces shall be equipped with low power of total number of parking spaces shall be equipped with low power of total number of parking spaces shall be equ	cets shall			GC OV
A receptacles. For multifamily parking facilities, no more than one receptacle is required per more than one parking space is provided for use by a single dwelling unit. A solution of parking facilities accord by parking facilities accord by parking by a single dwelling unit. A solution of parking facilities accord by parking facilities accord by parking by a single dwelling unit. A solution of parking facilities accord by parking by a single dwelling unit. A solution of parking facilities accord by parking by a single dwelling unit. A solution of parking facilities accord by parking by a single dwelling unit. A solution of parking facilities accord by parking by a single dwelling unit. A solution of parking facilities accord by parking by a single dwelling unit.				
4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall	not deliver			
<ul> <li>a parking is provided, at least one EV charger shall be located in the common use parking vallable for use by all residents or guests.</li> <li>4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.5</li> </ul>				
per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum required, hanagement system (ALMS) may be used to reduce the maximum required electron minute at 60 psi. All the ALMS may be used to reduce the maximum flow rate of 1.8 gal minute at 60 psi.				_
ace served by the ALMS. The electrical system and any on-site distribution transform is capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS). The branch circuit shall have a minimum capacity of 40 amperest and installed EVSE shall <b>Note</b> : Where complying faucets are unavailable, aerators or other means may be used to ach	nieve			
to tless than 30 amperes. ALMS shall not be used to reduce the animum required electrical field closes. 4.303.1.4.5 Pre-rinse spray valves.				
When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Applications), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section (d)(7) and shall be equipped with an integral automatic shutoff.				
hicle charging stations serving public accommodations, public horising, motels and hotels to comply with this section. See California Building C Ve, Chapter 11B, for applicable <b>FOR REFERENCE ONLY:</b> The following table and code section have been reprinted from the Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and				
1605.3 (h)(4)(A).	cuon			
TABLE H-2				
ace shall be located adjacent to an accessible parking space meeting the requirements of ding Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.				
Accessible located on in accessible route, as defined in the California Building Code, building.          VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019         PRODUCT CLASS				
expective charging stations a signed and constructed in compliance with the California apter 11B, are not required to a mply with Section 4.106.4.2.2.1.1 and Section 4.106.4.2.1 and Section 4.106.4.2.1 and Section 4.106.4.2.1 and Section 4.106.4.2.1 and				
Product Class 1 (≤ 5.0 ozf) 1.00				
shall be desided to comply with the following:Product Class 2 (> 5.0 ozf and $\leq 8.0 ozf$ )1.201. each 1/ space shall be 18 feet (5486 mm).Product Class 3 (> 8.0 ozf)1.28				
Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 grams-f			×)	
and a spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum minimum width of the EV space is minimum width of the EV space is buildings.	al			
Submeters shall be installed to measure water usage of individual rental dwelling units in accordance is EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083	e with the			
direction. A C GC/ Sible EV spaces. A C OWNER accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table	е			
ements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall ibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready ultifamily developments shall comply with California Building Code, Chapter 11A, Section				
CONVENIENCE FOR THE USER.				
requirements. irred. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch all not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall FIXTURE TYPE FIXTURE T				
ervice or subpanel and shall terminate into a listed cabinet, box or enclosure in close nor the proposed location of the EV space. Construction documents shall identify the int, receptacle or charger location, as applicable. The service panel and/ or subpanel shall 1.8 GMP @ 80 PSI				
mum dedicated branch circuit, including branch circuit overcurrent protective device served to permit installation of a branch circuit overcurrent protective device. NAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ PSI	@ 20			
is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is imity to the location or the proposed location of the EV space, at the time of original 0.5 GPM @ 60 PSI				
dance with the California Electrical Code.  Equired. Construction documents shall indicate the raceway termination point and the  USE AREAS  KITCHEN FAUCETS  1.8 GPM @ 60 PSI				
uture EV spaces, receptacles or EV chargers. Construction documents shall also provide ge of installed or future receptacles or EVSE, raceway method(s), wiring schematics and ons. Plan design shall be based upon a 40-ampere minimum branch circuit. Required METERING FAUCETS 0.2 GAL/CYCLE WATER CLOSET 1.28 GAL/FLUSH				
ons. Plan design shall be based upon a 40-ampere minimum branch circuit. Required       WHERE BLOCE I       1120 Cher Loor I         omponents that are planned to be installed underground, enclosed, inaccessible or in       URINALS       0.125 GAL/FLUSH				
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	S. THE END US	SER AS	SSUN	ΛE3

	LAURA MILLER
Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)	DESIGN architecture + interners 889 Embarcadero Drive, Suite 102
ARTY 4.304 OUTDOOR WATER USE	El Dorado Hills, Ca 95762 laura@lauramiller-design.com lauramiller-design.com
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	916.607.3321
Efficient Landscape Ordinance (MWELO), whichever is more stringent. NOTES:	CENSED ARCHITE
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations,	LAURA A. MILLER
Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/	* No. C-35317 *
DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE	PIE OF CALIFORNIN
EFFICIENCY 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE	
GC/       4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/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.	ZMiller
GC/ OWNER A408 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:	
<ol> <li>Excavated soil and land-clearing debris.</li> <li>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</li> </ol>	
<ol> <li>The enforcing agency may make exceptions to the requirements of this section when isolated</li> </ol>	()
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	Ž
GC/ OWNER 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.	
<ol> <li>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.</li> </ol>	
<ol><li>Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).</li></ol>	
<ol> <li>Identify diversion facilities where the construction and demolition waste material collected will be taken.</li> <li>Identify construction methods employed to reduce the amount of construction and demolition waste</li> </ol>	
<ul><li>generated.</li><li>5. Specify that the amount of construction and demolition waste materials diverted shall be calculated</li></ul>	
GC/ 4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the	U U
OWNER 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.	
<b>Note:</b> The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.	
GC/ 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	
OWNER Weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 Ibs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1	
<b>4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE.</b> 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	D ℃ C
GC/ GC/ Compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4	0 6 1 1
OWNER Notes:	DENS
<ol> <li>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</li> </ol>	
documenting compliance with this section. 2. Mixed construction and demolition debris (C & D) processors can be located at the California	ΣüΣ
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	U U U
following shall be placed in the building: 1. Directions to the owner or occupant that the manual shall remain with the building throughout the	A C
<ol> <li>If e cycle of the structure.</li> <li>Operation and maintenance instructions for the following:</li> </ol>	AD N
<ul> <li>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.</li> </ul>	
<ul> <li>b. Roof and yard drainage, including gutters and downspouts.</li> <li>c. Space conditioning systems, including condensers and air filters.</li> <li>d. Landscape irrigation systems.</li> </ul>	
<ul><li>e. Water reuse systems.</li><li>3. Information from local utility, water and waste recovery providers on methods to further reduce</li></ul>	READY
<ul><li>resource consumption, including recycle programs and locations.</li><li>4. Public transportation and/or carpool options available in the area.</li><li>5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent</li></ul>	L L L L L L L L L L L L L L L L L L L
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	
<ul><li>water.</li><li>7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.</li></ul>	
<ol> <li>Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.</li> </ol>	PERMIT
<ol> <li>Information about state solar energy and incentive programs available.</li> <li>A copy of all special inspections verifications required by the enforcing agency or this code.</li> <li>Information from the Department of Forestry and Fire Protection on maintenance of defensible</li> </ol>	
space around residential structures. 12. Information and/or drawings identifying the location of grab bar reinforcements.	
4.410.2 RECYCLING BY OCCUPANTS. Where 5 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 waster, 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 note required to comply with the organic waste portion of this section.	
DIVISION 4.5 ENVIRONMENTAL QUALITY	
SECTION 4.501 GENERAL	
<b>4.501.1 Scope</b> 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	No. Date Description
5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)	Sheet Name:
AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.	CALGREEN CHECKLIST
<b>COMPOSITE WOOD PRODUCTS.</b> 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 I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section	
93120.1. DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for	Scale:
combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.	Date: MAR 2024
UMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.	Drawn By: LM Approved By:
	OWNERS

A-0.1



Y N/A RESPON PARTY

# California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE **RESIDENTIAL MANDATORY MEASURES, SHEET 2** (January 2023)

Y N/A RESPON. PARTY

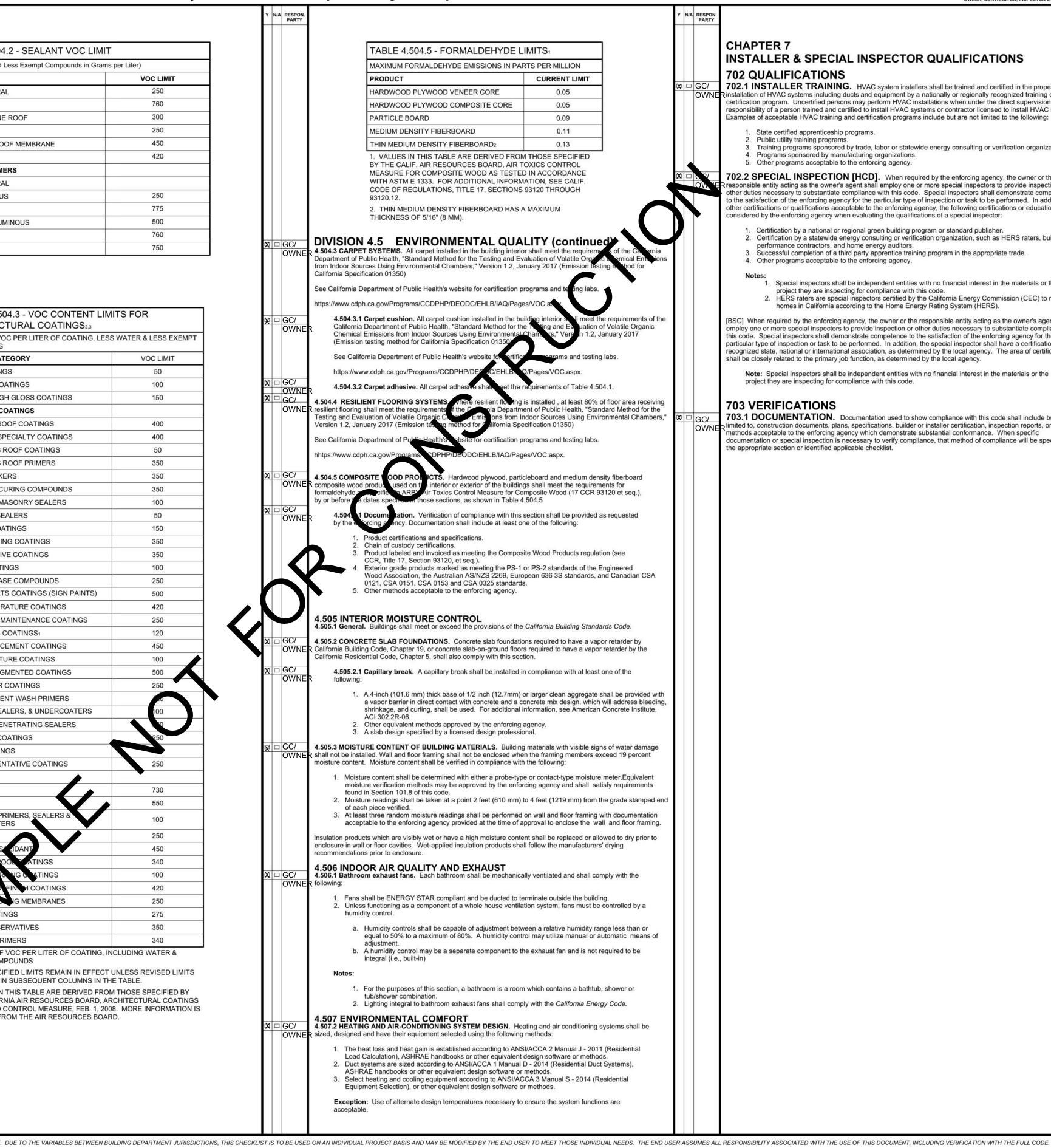
							TABLE
		comp	MUM INCREMENTAL REACTIVITY (MIR). The maximum change ound to the "Base Reactive Organic Gas (ROG) Mixture" per weig		d to		(Less W
		hund	edths of a gram (g $O^3$ /g ROC). MIR values for individual compounds and hydrocarbon solvents a				SEALAN
			4701.				ARCHIT
		MOIS	TURE CONTENT. The weight of the water in wood expressed in p	ercentage of the weight of the over	en-dry wood.		MARINE
		PRO	DUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for	all ingredients in a product subie	ect to this		NONME
		articl	<ul> <li>The PWMIR is the total product reactivity expressed to hundredt ct (excluding container and packaging).</li> </ul>				ROADW
			ct (excluding container and packaging). PWMIR is calculated according to equations found in CCR, Title 1	7, Section 94521 (a).			SINGLE
		REA	CTIVE ORGANIC COMPOUND (ROC). Any compound that has the	e potential, once emitted. to contri	ibute to		OTHER
		ozon	e formation in the troposphere.				SEALA
			A volatile organic compound (VOC) broadly defined as a chemica				
			apor pressures greater than 0.1 millimeters of mercury at room ter gen and may contain oxygen, nitrogen and other elements. See C		ically contain		ARCHIT
		1050					NON
×		4.50	3 FIREPLACES .1 GENERAL. Any installed gas fireplace shall be a direct-vent se	aled-combustion type. Any install	ed		POR
		wood	stove or pellet stove shall comply with U.S. EPA New Source Perfor able, and shall have a permanent label indicating they are certified	ormance Standards (NSPS) emiss	sion limits as		MODIFI
			stoves and fireplaces shall also comply with applicable local ordina		ousioves,		MARINE
6 🗆	GC/ OWNE	4.50 RCON startu	4 POLLUTANT CONTROL .1 COVERING OF DUCT OPENINGS & PROTECTION OF MECH STRUCTION. At the time of rough installation, during storage on the p of the heating, cooling and ventilating equipment, all duct and ot ngs shall be covered with tape, plastic, sheet metal or other method	ne construction site and until final ner related air distribution compor	nent		OTHER
		reduc	e the amount of water, dust or debris which may enter the system.				
0 🗆	GC/	4.504	.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials	shall comply with this section.			
	GC/		4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant		hall meet the		TAB
	OWNE	R	requirements of the following standards unless more stringent loc				ARC
			management district rules apply:				GRAN
		1	<ol> <li>Adhesives, adhesive bonding primers, adhesive primer shall comply with local or regional air pollution control of</li> </ol>				COAT
		L	applicable or SCAQMD Rule 1168 VOC limits, as show	n in Table 4.504.1 or 4.504.2, as	applicable.		FLAT
		L	Such products also shall comply with the Rule 1168 pro compounds (chloroform, ethylene dichloride, methylene	chloride, perchloroethylene and			NON-
		I I	tricloroethylene), except for aerosol products, as specif				NONF
		1	2. Aerosol adhesives, and smaller unit sizes of adhesives			1	
		L	units of product, less packaging, which do not weigh m than 16 fluid ounces) shall comply with statewide VOC	standards and other requirements	s, including		SPEC
		1	prohibitions on use of certain toxic compounds, of <i>Calif</i> commencing with section 94507.			1	ALUM
		1		The second s		1	BASE
	GC/ OWNE	R	4.504.2.2 Paints and Coatings. Architectural paints and coating the ARB Architectural Suggested Control Measure, as shown in T				BITUN
		L	apply. The VOC content limit for coatings that do not meet the de listed in Table 4.504.3 shall be determined by classifying the coat	finitions for the specialty coatings	categories		BITU
		L	coating, based on its gloss, as defined in subsections 4.21, 4.36,	and 4.37 of the 2007 California Ai	ir Resources		BONE
		L	Board, Suggested Control Measure, and the corresponding Flat, I Table 4.504.3 shall apply.	Nonflat or Nonflat-High Gloss VO	C limit in		CONC
<u> </u>	GC			e de la companya de la compa			CONC
	GC/ OWNE	R	<b>4.504.2.3 Aerosol Paints and Coatings.</b> Aerosol paints and coatings for ROC in Section 94522(a)(2) and other requirements, inc	itings shall meet the Product-weig cluding prohibitions on use of certa	ain toxic		DRIVE
			compounds and ozone depleting substances, in Sections 94522(e	e)(1) and (f)(1) of California Code	of		DRY F
	1	L	Regulations, Title 17, commencing with Section 94520; and in are Quality Management District additionally comply with the percent		ay Area Alf		FAUX
		-		voc by weight of product limits o			17,00
			8, Rule 49.	VOC by weight of product limits o			
	GC/		4.504.2.4 Verification. Verification of compliance with this section	n shall be provided at the request	of Regulation		FIRE
	GC/ OWNE	ĒR		n shall be provided at the request	of Regulation		FIRE FLOO FORM GRAF
₽ □		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>1. Manufacturer's product specification.</li> </ul>	n shall be provided at the request to, the following:	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS
<b>Q</b>		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT	n shall be provided at the request to, the following:	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW
Q		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product)	n shall be provided at the request to, the following: 1.2 er Liter)	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN
Q		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product APPLICATIONS	n shall be provided at the request to, the following: 1,2 er Liter) VOC LIMIT	of Regulation		FIRE I FLOO FORM GRAP HIGH INDUS LOW S MAGN MAST
0		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product Co	n shall be provided at the request to, the following: 1.2 er Liter) VOC LIMIT 50	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST META MULT
0		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>Manufacturer's product specification.</li> <li>Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product Compounds CARPET ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES	n shall be provided at the request to, the following: 1,2 er Liter) VOC LIMIT 50 50 150	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST META MULT
0		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>Manufacturer's product specification.</li> <li>Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product C	n shall be provided at the request to, the following: 1.2 er Liter) VOC LIMIT 50 50 150 100	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST META MULT PRET
		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>Manufacturer's product specification.</li> <li>Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product C	n shall be provided at the request to, the following: 1,2 er Liter) VOC LIMIT 50 50 150 100 60	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST META MULT PRET PRIMI
		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>Manufacturer's product specification.</li> <li>Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product C	n shall be provided at the request to, the following: 1.2 er Liter) VOC LIMIT 50 50 150 100 60 50	of Regulation		FIRE I FLOO FORM GRAP HIGH INDUS LOW S MAGN MAST META MULT PRET PRIMS
		R	4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited         1. Manufacturer's product specification.         2. Field verification of on-site product containers.         TABLE 4.504.1 - ADHESIVE VOC LIMIT         (Less Water and Less Exempt Compounds in Grams p         ARCHITECTURAL APPLICATIONS         INDOOR CARPET ADHESIVES         OUTDOOR CARPET ADHESIVES         WOOD FLOORING ADHESIVES         RUBBER FLOOR ADHESIVES         SUBFLOOR ADHESIVES         CERAMIC TILE ADHESIVES	n shall be provided at the request to, the following: 1.2 er Liter) VOC LIMIT 50 50 150 100 60 50 65	of Regulation		FIRE I FLOO FORM GRAP HIGH INDUS LOW 3 MAGN MAST META MULT PRET PRIMI REAC RECY
		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>Manufacturer's product specification.</li> <li>Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product Compounds CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES	n shall be provided at the request to, the following: 1.2 er Liter) VOC LIMIT 50 50 150 100 60 50	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST META MULT PRET PRIMI REAC RECY ROOF
		R	4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited         1. Manufacturer's product specification.         2. Field verification of on-site product containers.         TABLE 4.504.1 - ADHESIVE VOC LIMIT         (Less Water and Less Exempt Compounds in Grams p         ARCHITECTURAL APPLICATIONS         INDOOR CARPET ADHESIVES         OUTDOOR CARPET ADHESIVES         WOOD FLOORING ADHESIVES         RUBBER FLOOR ADHESIVES         SUBFLOOR ADHESIVES         CERAMIC TILE ADHESIVES	n shall be provided at the request to, the following: 1.2 er Liter) VOC LIMIT 50 50 150 100 60 50 65	of Regulation		FIRE I FLOO FORM GRAP HIGH INDUS LOW 3 MAGN MAST META MULT PRET PRIMI REAC RECY ROOF RUST
		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product Compounds product Compounds in Grams product Compounds in Grams prod	n shall be provided at the request to, the following: 1.2 er Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST META MULT PRET PRIMI REAC RECY ROOF RUST SHEL
		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product and Less Exempt Compounds in Grams product CARPET ADHESIVES <ul> <li>CARPET PAD ADHESIVES</li> <li>OUTDOOR CARPET ADHESIVES</li> <li>OUTDOOR CARPET ADHESIVES</li> <li>WOOD FLOORING ADHESIVES</li> <li>RUBBER FLOOR ADHESIVES</li> <li>SUBFLOOR ADHESIVES</li> <li>CERAMIC TILE ADHESIVES</li> <li>DRYWALL &amp; PANEL ADHESIVES</li> </ul>	n shall be provided at the request to, the following: 1.2 er Liter) VOC LIMIT 50 50 150 150 60 50 65 50 50 50 50 50	of Regulation		FIRE I FLOO FORM GRAP HIGH INDUS LOW S MAGN MAST META MULT PRET PRIMI REAC RECY ROOF RUST SHEL CLEA
		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product applications) <ul> <li>INDOOR CARPET ADHESIVES</li> <li>CARPET PAD ADHESIVES</li> <li>OUTDOOR CARPET ADHESIVES</li> <li>OUTDOOR CARPET ADHESIVES</li> <li>RUBBER FLOOR ADHESIVES</li> <li>SUBFLOOR ADHESIVES</li> <li>CERAMIC TILE ADHESIVES</li> <li>VCT &amp; ASPHALT TILE ADHESIVES</li> <li>COVE BASE ADHESIVES</li> </ul>	n shall be provided at the request to, the following: 1.2 er Liter) VOC LIMIT 50 50 150 150 100 60 50 65 50 50 50 50 50 50 50 50 50 5	of Regulation		FIRE I FLOO FORM GRAP HIGH INDUS LOW 3 MAGN MAST META MULT PRET PRIME REAC RECY ROOF RUST SHEL CLEA
		R	<ul> <li>4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited</li> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ul> TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product containers) ARCHITECTURAL APPLICATIONS <ul> <li>INDOOR CARPET ADHESIVES</li> <li>CARPET PAD ADHESIVES</li> <li>OUTDOOR CARPET ADHESIVES</li> <li>OUTDOOR CARPET ADHESIVES</li> <li>RUBBER FLOOR ADHESIVES</li> <li>SUBFLOOR ADHESIVES</li> <li>CERAMIC TILE ADHESIVES</li> <li>VCT &amp; ASPHALT TILE ADHESIVES</li> <li>DRYWALL &amp; PANEL ADHESIVES</li> <li>MULTIPURPOSE CONSTRUCTION ADHESIVE</li> </ul>	n shall be provided at the request to, the following: 12 er Liter) VOC LIMIT 50 50 150 150 60 50 65 50 50 50 50 70	of Regulation		FIRE I FLOO FORM GRAP HIGH INDUS LOW 3 MAGN MAST META MULT PRET PRIMI REAC RECY ROOF RUST SHEL CLEA OPAC SPEC
		R	4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product Compounds in Grams product Compounds in Grams product CARPET ADHESIVES CARPET PAD ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVE STRUCTURAL GLAZING ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES	n shall be provided at the request to, the following: 1.2 er Liter) VOC LIMIT 50 50 50 150 100 60 50 65 50 50 50 50 50 50 70 100 100	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW 3 MAGN MAST META MULT PRET PRIMI REAC RECY ROOF RUST SHEL CLEA OPAG SPEC UNDE
		R	4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited         1. Manufacturer's product specification.         2. Field verification of on-site product containers.         TABLE 4.504.1 - ADHESIVE VOC LIMIT         (Less Water and Less Exempt Compounds in Grams product containers)         ARCHITECTURAL APPLICATIONS         INDOOR CARPET ADHESIVES         CARPET PAD ADHESIVES         OUTDOOR CARPET ADHESIVES         OUTDOOR CARPET ADHESIVES         RUBBER FLOOR ADHESIVES         RUBBER FLOOR ADHESIVES         VCT & ASPHALT TILE ADHESIVES         VCT & ASPHALT TILE ADHESIVES         DRYWALL & PANEL ADHESIVES         MULTIPURPOSE CONSTRUCTION ADHESIVE         STRUCTURAL GLAZING ADHESIVES         SINGLE-PLY ROOF MEMBRANE ADHESIVES         OTHER ADHESIVES NOT LISTED	n shall be provided at the request to, the following: 12 er Liter) VOC LIMIT 50 50 150 150 100 60 50 65 50 50 50 50 70 100 250	of Regulation		FIRE I FLOO FORM GRAP HIGH INDUS LOW 3 MAGN MAST META MULT PRET PRIME REAC RECY ROOF RUST SHEL CLEA OPAC SPEC UNDE STAIN
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		R	4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited and the section of on-site product containers.           1.         Manufacturer's product specification.           2.         Field verification of on-site product containers.           TABLE 4.504.1 - ADHESIVE VOC LIMIT           (Less Water and Less Exempt Compounds in Grams product containers.           ARCHITECTURAL APPLICATIONS           INDOOR CARPET ADHESIVES           CARPET PAD ADHESIVES           OUTDOOR CARPET ADHESIVES           WOOD FLOORING ADHESIVES           WOOD FLOORING ADHESIVES           SUBFLOOR ADHESIVES           CERAMIC TILE ADHESIVES           VCT & ASPHALT TILE ADHESIVES           DRYWALL & PANEL ADHESIVES           DRYWALL & PANEL ADHESIVES           MULTIPURPOSE CONSTRUCTION ADHESIVES           SINGLE-PLY ROOF MEMBRANE ADHESIVES           OTHER ADHESIVES NOT LISTED           SPECIALTY APPLICATIONS           PVC WELDING           ABS WELDING           PLASTIC CEMENT WELDING           ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE           SPECIAL PURPOSE CONTACT ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE           SPECIAL PURPOSE CONTACT ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE <tr< td=""><td>n shall be provided at the request to, the following: 12 er Liter) VOC LIMIT 50 50 50 65 50 65 50 50 50 50 50 50 50 50 50 5</td><td>of Regulation</td><td></td><td>FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST MAST MULT PRET PRIMI REAC RECY ROOF RUST SHEL CLEA OPAC STAIN STON STAIN STON SWIM TRAF TU WATE MOD STAIN STON SWIM TRAF TU WATE MOD</td></tr<>	n shall be provided at the request to, the following: 12 er Liter) VOC LIMIT 50 50 50 65 50 65 50 50 50 50 50 50 50 50 50 5	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST MAST MULT PRET PRIMI REAC RECY ROOF RUST SHEL CLEA OPAC STAIN STON STAIN STON SWIM TRAF TU WATE MOD STAIN STON SWIM TRAF TU WATE MOD
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		R	4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited and the section of on-site product containers.           1.         Manufacturer's product specification.           2.         Field verification of on-site product containers.           TABLE 4.504.1 - ADHESIVE VOC LIMIT           (Less Water and Less Exempt Compounds in Grams product containers.           ARCHITECTURAL APPLICATIONS           INDOOR CARPET ADHESIVES           CARPET PAD ADHESIVES           OUTDOOR CARPET ADHESIVES           WOOD FLOORING ADHESIVES           WOOD FLOORING ADHESIVES           SUBFLOOR ADHESIVES           CERAMIC TILE ADHESIVES           VCT & ASPHALT TILE ADHESIVES           DRYWALL & PANEL ADHESIVES           DRYWALL & PANEL ADHESIVES           MULTIPURPOSE CONSTRUCTION ADHESIVES           SINGLE-PLY ROOF MEMBRANE ADHESIVES           OTHER ADHESIVES NOT LISTED           SPECIALTY APPLICATIONS           PVC WELDING           ABS WELDING           PLASTIC CEMENT WELDING           ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE           SPECIAL PURPOSE CONTACT ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE           SPECIAL PURPOSE CONTACT ADHESIVE           STRUCTURAL WOOD MEMBER ADHESIVE <tr< td=""><td>n shall be provided at the request to, the following: 12 er Liter) VOC LIMIT 50 50 50 65 50 65 50 50 50 50 50 50 50 50 50 5</td><td>of Regulation</td><td></td><td>FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST MAST MULT PRET PRIMI REAC RECY ROOF RUST SHEL CLEA OPAC STAIN STON STAIN STON SWIM TRAF TU WATE MOD STAIN STON SWIM TRAF TU WATE MOD</td></tr<>	n shall be provided at the request to, the following: 12 er Liter) VOC LIMIT 50 50 50 65 50 65 50 50 50 50 50 50 50 50 50 5	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST MAST MULT PRET PRIMI REAC RECY ROOF RUST SHEL CLEA OPAC STAIN STON STAIN STON SWIM TRAF TU WATE MOD STAIN STON SWIM TRAF TU WATE MOD
		R	4.504.2.4 Verification. Verification of compliance with this section enforcing agency. Documentation may include, but is not limited of the information of on-site product containers. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMIT (Less Water and Less Exempt Compounds in Grams product CARPET PAD ADHESIVES (CARPET ADHESIVES (CARPET PAD ADHESIVE (CARPET PAPLICATIONS))) (CARPET PATIAL PARTICINAL WOOD MEMBER ADHESIVE (CARPET PAD	n shall be provided at the request to, the following: 12 er Liter) VOC LIMIT 50 50 50 150 60 50 65 50 65 50 50 50 50 50 50 50 50 50 5	of Regulation		FIRE FLOO FORM GRAF HIGH INDUS LOW MAGN MAST MAST MULT PRET PRIMI REAC RECY ROOF RUST SHEL CLEA OPAC STAIN STON STAIN STON SWIM TRAF TU WATE MOD STAIN STON SWIM TRAF TU WATE MOD

504.2 - SEALANT VOC LI	IMIT	
and Less Exempt Compounds in G	Grams per Liter)	
	VOC LIMIT	
JRAL	250	
к	760	
ANE ROOF	300	
	250	
ROOF MEMBRANE	450	
	420	
RIMERS		
JRAL		
OUS	250	
	775	
TUMINOUS	500	
ж	760	
	750	

CTURAL COATINGS2,3	
VOC PER LITER OF COATING, LESS	WATER & LESS EXEMPT
ATEGORY	VOC LIMIT
NGS	50
COATINGS	100
IGH GLOSS COATINGS	150
COATINGS	
ROOF COATINGS	400
SPECIALTY COATINGS	400
S ROOF COATINGS	50
S ROOF PRIMERS	350
KERS	350
CURING COMPOUNDS	350
/MASONRY SEALERS	100
SEALERS	50
OATINGS	150
HING COATINGS	350
	67221049344
TIVE COATINGS	350
TINGS	100
	250
RTS COATINGS (SIGN PAINTS)	500
ERATURE COATINGS	420
MAINTENANCE COATINGS	250
S COATINGS1	120
E CEMENT COATINGS	450
CTURE COATINGS	100
PIGMENTED COATINGS	500
R COATINGS	250
MENT WASH PRIMERS	
EALERS, & UNDERCOATERS	100
PENETRATING SEALERS	
COATINGS	250
TINGS	
ENTATIVE COATINGS	250
	•
	730
	550
PRIMERS, SEALERS &	100
	250
ISTEIDANT	450
	340
RING CLATINGS	100
R FINCH COATINGS	420
IG MEMBRANES	250
TINGS	275
SERVATIVES	350
PRIMERS	340

MPOUNDS CIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS IN SUBSEQUENT COLUMNS IN THE TABLE.

I THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY RNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS FROM THE AIR RESOURCES BOARD.



Y	=	YES
N/A	=	NOT APPLICABLE
RESPON. PARTY	=	RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

# **CHAPTER 7**

# INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS **702 QUALIFICATIONS**

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper Rinstallation 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:

- 1. State certified apprenticeship programs. 2. Public utility training programs.
- Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations.
- 5. 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 onsidered by the enforcing agency when evaluating the qualifications of a special inspector:

- 1. Certification by a national or regional green building program or standard publisher. 2. 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.
- 1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. 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).

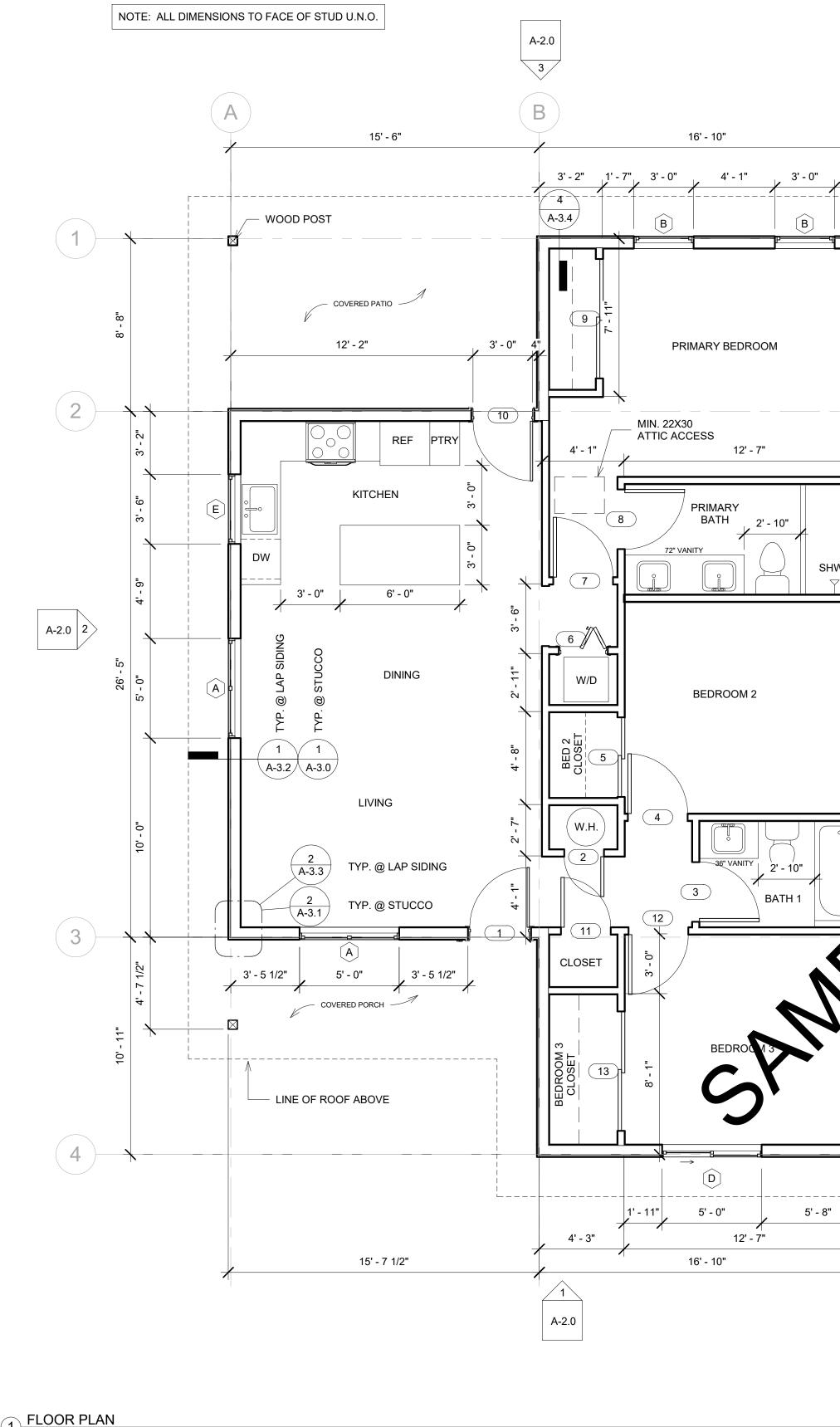
[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction 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 b 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 applicable checklist.

LAURA MILLER DESIGN actilization + interna 889 Embarcadero Drive, Suite 102 ElDorado Hills, Ca 95762 Iaura@lauramiller-design.com 916.607.3321
SACRAMENTO COUNTY PERMIT READY ADU (ACCESSORY DWELLING UNIT) PLANS MODEL D
No. Date Description Sheet Name: CALGREEN CHECKLIST CONT.
Scale: Date: MAR 2024 Drawn By: LM Approved By: OWNERS Sheet Number: APCO.2



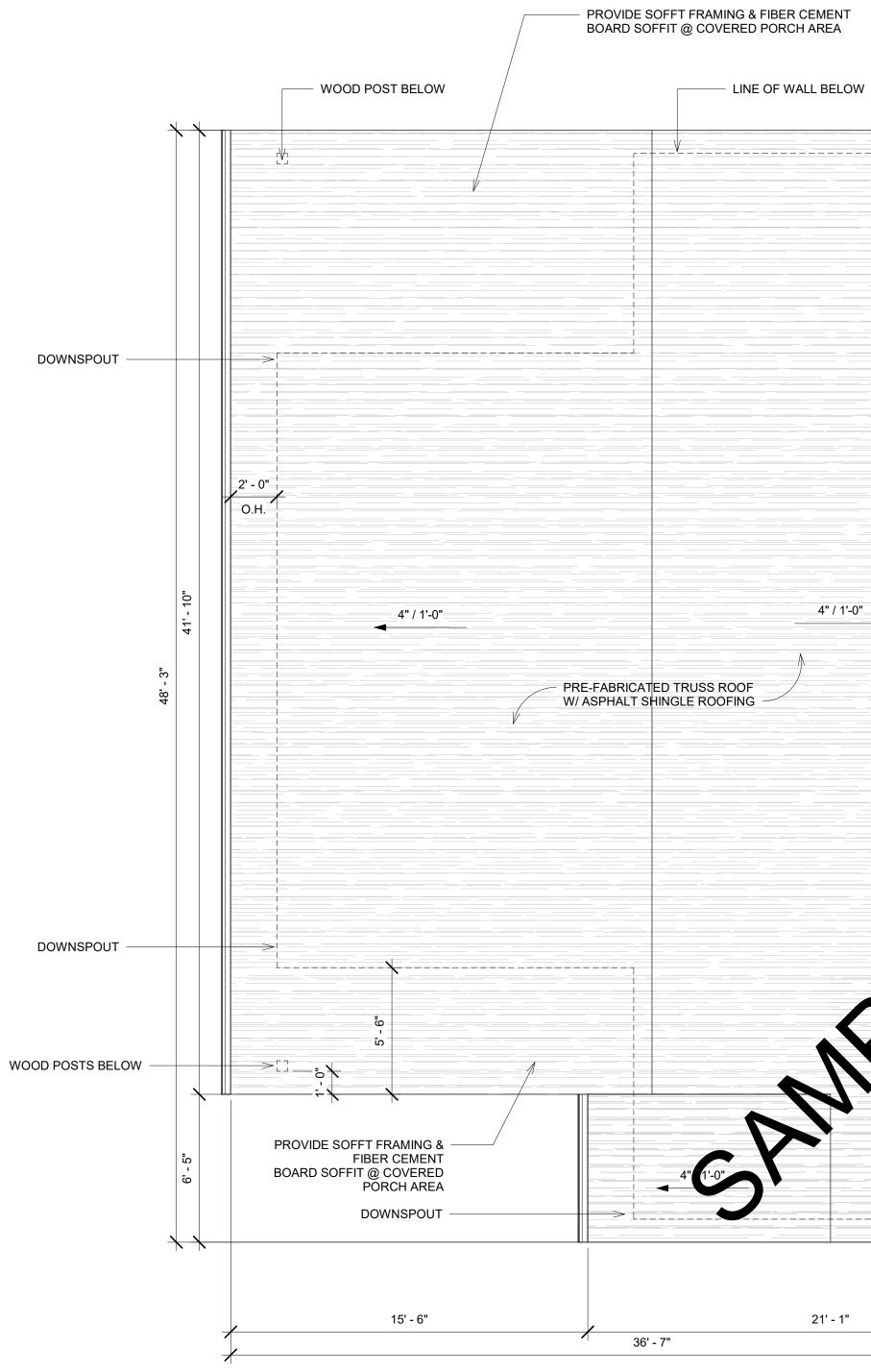
1 FLOOR PLAN 1/4" = 1'-0"

					Deer Sebedule		
	Mark	Width	Height	Location	Door Schedule Description	Application Finish	Hardware
	2	3' - 0" 2' - 0"	6' - 8" 6' - 8"	LIVING ROOM UTILITY CLOSET	HALF LITE FLAT PANEL	EXTERIOR PRIMED	ENTRY LOCKSET PASSAGE
	3	3' - 0"	6' - 8"	BATH 2	FLAT PANEL	INTERIOR PRIMED	PRIVACY
	4 5	3' - 0" 4' - 0"	6' - 8" 6' - 8"	BEDROOM 2 BEDROOM 2 CLOSET	FLAT PANEL DOUBLE SLIDING	INTERIOR PRIMED	PRIVACY
	6	2' - 4" 3' - 0"	6' - 8" 6' - 8"	LAUNDRY CLOSET PRIMARY BEDROOM	LOUVERED BI-FOLD DOOR FLAT PANEL	INTERIOR PRIMED	PRIVACY
	8	3' - 0"	6' - 8"	PRIMARY BEDROOM PRIMARY BATHROOM	FLAT PANEL	INTERIOR PRIMED	PRIVACY
	9	6' - 0" 3' - 0"	6' - 8" 6' - 8"	PRIMARY BEDROOM CLOSE	FULL LITE	INTERIOR PRIMED	ENTRY LOCKSET
	11	2' - 6"	6' - 8"	CLOSET	FLAT PANEL	INTERIOR PRIMED	PASSAGE
	12 13	3' - 0" 6' - 0"	6' - 8" 6' - 8"	BEDROOM 3 BEDROOM 3 CLOSET	FLAT PANEL DOUBLE SLIDING	INTERIOR PRIMED	PRIVACY
					ING SHALL BE PROVIDED PER 1,000 BTU	U'S OF EQUIPMENT INPUT. A MIN	IMUM OF ONE 100 S.I.
				Win low Schedule	DF THE DOOR SHALL BE PROVIDED. (CM	,	
	Type Mark	Width		Sill Height Operation	on Count FRA	NDOW INFORMATION: AME: VINYL	
C	A	5' - 0"	4'0"	▼ 3' - 0" DOUBLE SINGLE	SHO	/ALUE: .3 GC: .23 ERGY STAR CERTIFIED: YES	
	В	3' - 0"	- 0 <sup></sup>	3' - 0" SINGLE HUNG	2 LOV	W E GLASS: YES	
2' 0"	D C	3' - 5	2' - 0" 4' - 0"	5' - 0" SLIDER, TEMP G 3' - 0" SLIDER	LAZING 2 4		
2'-0"	E Crand t <b>a</b> tal	3' - 6"	3' - 6"	3' - 6" SINGLE HUNG	1		
	Grand total		<u>ATIONS</u>				
				AVE NATURAL LIGHT SIZED TO A MIN.	OF 8% OF THE FLOOR AREA AND VENTIL	LATION SIZED TO A MIN OF 4% O	F THE FLOOR AREA.
				A REQ'D ; 44 S.F. PROVIDED EQ'D ; 22 S.F. PROVIDED			
	BEDROOM 2: 128 S.F. X .08 =	10.24 S.F. NATI	JRAL LIGHT ARE	A REQ'D ; 20 S.F. PROVIDED EQ'D ; 10 S.F. PROVIDED VIA OPERATIC	NAL WINDOW		
				A REQ'D ; 40 S.F. PROVIDED EQ'D ; 20 S.F. PROVIDED VIA OPERATIC	NAL WINDOW		
CONTRACTOR TO COMPLY WITH 1/4":12" SLOPE REQUIREMENTS FOR ALL WASTE LINES. (N)				DING NOT MORE THAN 1.5" BELOW THE EACH SIDE OF EACH EXTERIOR DOOR.	THRESHOLD (CRC311.3.1) THE WIDTH OF EACH LANDING SHALL N	IOT BE LESS THAN THE DOOR SI	ERVED.
WATER LINES SHALL COMPLY WITH CPC CHAPER 6. TYPICAL FOR ALL BATHROOMS & KITCHEN				SION OF 36 INCHES MEASURED IN THE I			
	WINDOW NOTE						
				ORDANCE WITH MANUFACTURER'S REC	QUIREMENTS, INCLUDING FLASHING	:310.1):	
	MIN 5.7 MIN 20"	S.F. OF OPENA CLEAR WIDTH	ABLE AREA (5.0 S AND 24" CLEAR	E.F. FOR GRADE LEVEL BEDROOMS) HEIGHT WHEN OPEN ED FLOOR TO BOTTOM OF THE CLEAR		<i>,</i>	
	BATH & KITCHE						
				GAP FITTING AS PER CPC 807.4 LL NOT EXCEED 1.8 GALLONS PER MIN	AT 60 PSI (CAL GREEN 4.303.1.4.4)		
					WEEN THE FIXTURE AND THE WALL OR	R FLOOR SHALL BE MADE WATEF	R TIGHT AS PER CPC 402.2
				PPLIANCE OR MICROWAVE OVEN OVEF	R A LISTED COOKING APPLIANCE SHALL	CONFORM TO THE CONDITIONS	OF THE UPPER
				CE WITH THE CALIFORNIA PLUMBING C	ODE.		
					ENTER TO A SIDE WALL OR OBSTRUCTION RY, OR BIDET SHALL BE NOT LESS THAN		ES CENTER TO CENTER
GRAB BAR REINFORCEMENTS TO COMPLY WITH 2022 CRC R327. PLEASE SEE NOTES FOR MORE					HOWER HEADS AND IN SHOWER COMP ESS THAN 6 FT ABOVE THE FLOOR (CR		ED WITH A
	WATER HEATE	<u>R NOTES:</u>					
	- MANUFACTUF			ONS FOR THE WATER HEATER AND ALL	OTHER LISTED APPLIANCES SHALL BE	AVAILABLE TO THE FIELD INSPE	CTOR AT THE TIME OF
	- PER CF1R: W	ATER HEATER	HEAT PUMP MOD	DEL, RHEEM PROPH 40T2R H37515			
			FALL PROTECTI	<u>ON (2022 CRC R327):</u>			
		AST ONE BATH					
		ID OR THIRD FL			SED POSITION; OR, IN THE CASE OF A TW I IS NOT LOCATED ON THE ENTRY LEVEI		AMILY DWELLING, ON THE
	- DOOR	BELL BUTTON			D 48 INCHES ABOVE EXTERIOR FLOOR ( R FEATURES ARE REQUIRED TO BE INST		
	EXTERI OR AND	IOR FLOOR OR DING, MEASURI	LANDING, A STA ED FROM THE TO	NDARD OORBELL BUTTON OR CONTRO OP OF THE DOORBELL BUTTON OR CON	OL SHALL ALSO BE PROVIDED AT A HEIG		
				H, AND CONTROL HEIGHTS ET, SWITCH AND CONTROL HEIGHTS T	O BE LOCATED NO MORE THAN 48 INCH	IES MEASURED FROM THE TOP (	OF THE OUTLET BOX AND
		SS THAN 15 IN	CHES ABOVE TH	E FINISH FLOOR, PER 2022 CRC R327.1			
8"	BATHR	OOM ON THE E	NTRYL LEVEL, A	T LEASET ONE BATHROOM ON THE SEC	H REINFORCEMENT INSTALLED IN ACCO COND OR THIRD FLOOR OF THE DWELLI	ING SHALL COMPLY WITH THIS S	
		B. REINFORCM	1ENT SHALL NOT ENT SHALL BE LO	BE LESS THAN 2 BY 8 INCH NOMINAL L DCATED BETWEEN 32 INCHES AND 39 1	TION MATERIALS APPROVED BY THE EN UMBER OR OTHER CONSTRUCTION MA /4 INCHES ABOVE THE FINISHED FLOOR	TERIAL PROVIDING EQUAL HEIG R FLUSH WITH THE WALL FRAMIN	IG.
2X6 EXTERIOR WALL: 3 COAT STUCCO OR FIBER		D. SHOWER R E. BATHTUB A	EINFORCEMENT ND COMBINATIO	SHALL BE CONTINUOUS WHERE WALL N BATHTUB/SHOWER REINFORCEMEN	SIDE WALLS OF THE FIXTURE OR ONE S FRAMING IS PROVIDED. SHALL BE CONTINUOUS ON EACH END OVIDED WITH THE BOTTOM EDGE LOC.	O OF THE BATHTUB AND THE BA	CK WALL. ADDITIONALLY,
CEMENT LAP SIDING EXTERIOR FINISH. GYP. BOARD INTERIOR FINISH.				. STALE WEIT GIVE DAIL SHALL DE PR			
2X4 INTERIOR WALL: GYP. BOARD BOTH SIDES.							
<u>WALL LEGEND</u> 1/4" = 1'-0"							

LAURA MILLER DESIGN Actilitate + Interna 889 Embarcadero Drive, Suite 102 El Dorado Hills, Co 95762 Iauramiller-design.com Iauramiller-design.com 916.607.3321			
SACRAMENTO COUNTY       PERMIT READY ADU (ACCESSORY DWELLING UNIT) PLANS       MODEL D			
Sheet Name: FLOOR PLAN			

A-1.0

Sheet Number:



1 <u>ROOF PLAN</u> 1/4" = 1'-0"

ROOF VENTS 772.6 S.I./72 S.I. PER VENT = 10.7 = 11 ROOF VENTS NEEDED 792 S.I. VENTILATION FROM 11 ROOF VENTS TOTAL VENTILATION PROVIDED = 1,351.4 S.I. OF NET FREE VENTILATION ROOFING NOTES: - ROOFING MATERIAL TO BE ASPHALT SHINGLE. THE INSTALLATION OF ASPHALT SHINGLE ROOFING SHALL COMPLY WITH THE PROVISIONS OF R905.2 - ASPHALT SHINGLE UNDERLAYMENT TYPE SHALL BE ONE OF THE FOLLOWING: - ASTM D226 TYPE I - ASTM D4869 TYPE I - ASTM D6757 - UPPER ROOF VENTILATION TO BE PROVIDED OWENS CORNING VENTSURE RIDGE VENT RIGID ROLL WITH WEATHER PROTECTOR MOISTURE BARRIER OR APPROVED EQUAL. ED BY O'HAGIN LOW PROFILE ROOF VENTS. - LOWER ROOF VENTILATION TO BE PR - ATTIC ACCESS OPENINGS TO JUTIC ARE S SHALL HAVE A VERTICAL UNOBSTRUCTED HEAD HEIGHT OF 30 INCHES OR GREATER OVER AN AREA OF NOT LESS THAN 30 SQUARE FEET. VERTICAL HEIGHT SHALL BE MEASURED FROM THE TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS. THE ROUGH-FRAMED OPENING SHALL BE NOT LESS THAN 22 IN CHES BY 30 INCHES AND SHALL BE LOCATED IN A HALLWAY OR OTHER LOCATION WITH READY ACCESS. WHERE LOCATED IN A WALL, THE OPENING SHALL BE NOT LESS THAN THAN THAN THE BY 30 INCHES HIGH. NOTE: PROVIDE VE UFACTORES LISTED INSTALLATION INSTRUCTIONS AND SPECIFICATIONS INDICATING "FREE VENT AREA" TO THE INSPECTOR AT TIME OF INSPECTION ----÷↓0--- DOWNSPOUT S O.H. 4" / 1'-0" DOWNSPOUT •\\_\_\_\_

ROOF PLAN NOTES:

ROOF VENTILATION PROVIDED

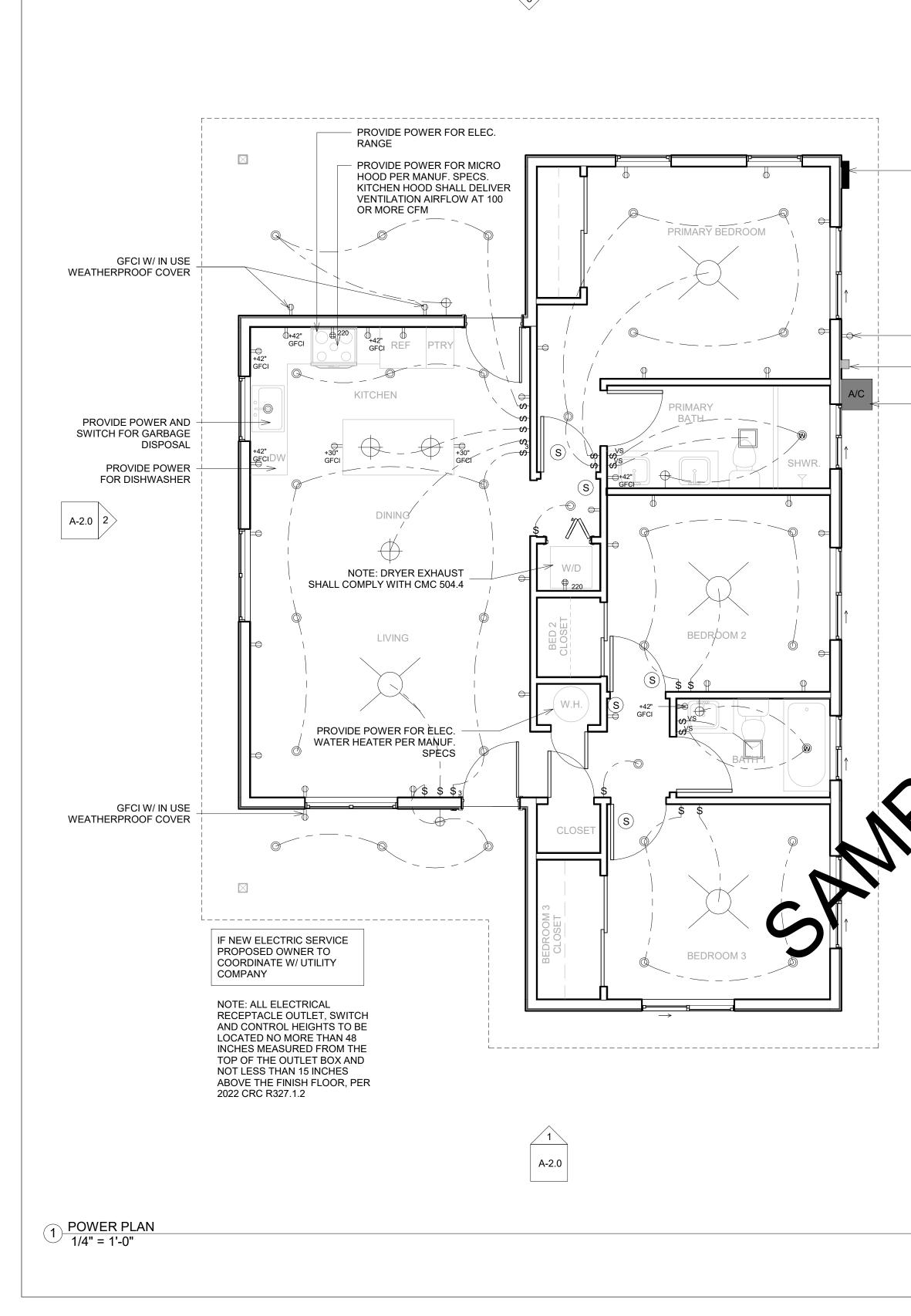
RIDGE VENT

- THE MIN. NET FREE VENTILATION AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE.

ENCLOSED RAFTER AREA: 1,388 S.F./150 = 9.25 S.F. = 1,332 S.I. NET FREE VENTILATION AREA REQUIRED

44'-9" (44.75') LINEAR FEET OF RIDGE VENT VENT AREA OF RIDGE VENT: 12.5 S.I. PER LINEAR FOOT 44.75' X 12.5 = 559.4 S.I. VENTILATION FROM A 44'-9" LONG RIDGE VENT

(M)LAURA MILLER DESIGN architecture + interiors 889 Embarcadero Drive, Suite 102 El Dorado Hills, Ca 95762 laura@lauramiller-design.com lauramiller-design.com 916.607.3321 SED ARCH LAURA A. MILLER No. C-35317 REN. 4/30/25 OFCAL Zmiller ANS ב  $\widehat{}$ UNIT OUNTY DWELLING TO CC ORY EL D MENTC SESSO MODEI ΛE SACRAM ADU (ACCI ADY RE/ PERMIT No. Date Description Sheet Name: ROOF PLAN Scale: 1/4" = 1'-0" Date: MAR 2024 Drawn By: LM Approved By: OWNERS Sheet Number: A-1.1



A-2.0

#### NOTE: UNITS WILL BE FULLY ELECTRIC

225 AMP MAIN ELECTRICAL PANEL OR 225 MINIMUM BUSBAR FOR SUBPANEL AT ADU

NOTE: EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS OF MORE THAN 50 VOLTS SHALL HAVE A POSITIVE MEANS OF DISCONNECT ADJACENT TO AND IN SIGHT FROM THE EQUIPMENT SERVED. A 120 VOLT RECEPTACLE SHALL BE LOCATED WITHIN 25 FEET OF THE EQUIPMENT FOR SERVICE AND MAINTENANCE PURPOSES.

GFCI W/ IN USE WEATHERPROOF COVER ELECTRICAL DISCONNECT

PROVIDE POWER FOR MINI-SPLIT CONDENSER PER MANUF. SPECS

GFCI

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 $\langle 0 \rangle$ 

 $\vdash \oplus$ 

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IOKE DETECTOR/CARBON MONOXIDE ALARM OTE: 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 SINGLE POLE VACANCY SENSOR SWITCH

3-WAY SWITCH

DUPLEX OUTLET, ARCH FAULT PROTECTED & TAMPER PROOF

220 VOLT OUTLET

GFCI DUPLEX OUTLET, ARC FAULT & TAMPER PROOF. NOTE: PROVIDE WEATHER-PROOF COVER FOR ALL EXTERIOR OUTLETS. 6" RECESSED LED CAN

SUITABLE FOR WET LOCATION 6" RECESSED LED CAN

WALL MOUNTED LIGHT FIXTURE

WALL MOUNTED LIGHT FIXTURE W/ MOTION SENSOR

CEILING MOUNTED LIGHT FIXTURE

CEILING FAN/LIGHT COMBINATION 'W' DENOTES WET LOCATION RATED FAN

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"

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.

DETACHED GARAGES WITH ELECTRIC POWER, AND AT OUTDOOR ENTRANCES OR EXITS. FIXTURES SHALL BE SECURELY SUPPORTED.

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 SHARPINGLUD THE MAX. WEIGHT TO BE SUPPORTED FOR CEILING FANS THAT WEIGH MORE THAN 35 LBS.

10. TYPE NM AND NMS CABLES SHALL 11. FLEXIBLE METAL CONDUIT (FN 12. LUMINAIRES INSTALLED IN OR OTHER ELECTRICAL

LOCATIONS SHALL BE ARRKED "SO TABLE FOR WET LOCATIONS" OR "SUITABLE FOR DAMP LOCATIONS.". 13. ALL 15 AND 20 PERE E, 12 AND 125 VOLT EXTERIOR RECEPTACLES SHALL BE PROTECTED BY AN "IN-USE" WEATHERPROOF COVER

14. BATHROON RECEPTA CLES WILL BE SUPPLIED BY AT LEAST ONE 20 AMP BRANCH CIRCUITS. 15. ALL NEW G-TYPE 125-VOLT, 15- AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES

6. CONNTER RECEPTACLES IN THE KITCHEN, NOOK PANTRIES, DINING ROOMS AND SIMILAR AREAS SHALL BE SPACED SUCH THAT ANY POINT ALONG THE WALL AT THE S NOT MORE THAN 2 FEET FROM A RECEPTACLE. ANY COUNTER SPACE MORE THAN 12"" WIDE SHALL BE PROVIDED WITH A RECEPTACLE. PENINSULA OR ISLAND D BE PROVIDED WITH AT LEAST ONE RECEPTACLE, WHERE A RANGE, COUNTER-MOUNTED COOKING UNIT, OR SINK IS INSTALLED IN THE ISLAND WITH LESS THAN COUNTER SPACE BEHIND THE FIXTURES, THE ISLAND OR PENINSULAR IS CONSIDERED AS TWO COUNTER SPACES. THESE RECEPTACLES ARE TO BE LOCATED NO MORE BELOW THE COUNTERTOP WHERE THE COUNTERTOP DOES NOT EXTEND MORE THAN 6" BEYOND ITS SUPPORT BASE. COUNTERTOPS INTERRUPTED BY RANGES, SINKS, OTHER APPLIANCES SHALL BE CONSIDERED SEPARATE COUNTERS.

GFIC 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 OUSIDE 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

FOR HALLWAYS & CLOSETS LESS THAN 70 SQ. FT.

EXHAST 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 HOUSEHOULD FIRE WARNING EQUIPMENT PROVISIONS OF NFPA 72.

2. SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: - IN EACH SLEEPING ROOM.

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 INTHE INDIVIDUAL UNIT.

4. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING PROVIDED THAT SUCH WIRING IS FROM A COMMERICAL SOURCE AND SHALL BE EQUIPPED WITH A BACKUP BATTERY.

CARBON MONOXIDE ALARM NOTES:

1. SINGLE AND MULTIPLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING WITH THE REQUIREMENTS OF UL2034. CARBON MONOXIDE DETECTORS SHALL BE LISTED AS COMPLYING WITH THE REQUIREMENTS OF UL2075. CARBON MONOXIDE ALARMS AND DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH R315, THE CURRENT EDITION OF NFPA 720, AND THE MANUF. INSTALLATION INSTRUCTIONS.

2. CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: - OUTSIDE EACH SEPARATE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF BEDROOMS. - ON EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS.

3. WHERE MORE THAN ONE CARBON MONOXIDE ALARM IS REQUIRED TO BE INSTALLED WITHIN THE DWELLING UNIT OR WITHIN A SLEEPING UNIT THE ALARM SHALL BE INTERCONNECTED IN A MANNER THAT ACTIVATION OF ONE ALARM SHALL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. 4. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARYNPOWER FROM THE BUILDING WIRING PROVIDED THAT SUCH WIRING IS FROM A COMMERICAL SOURCE AND SHALL

BE EQUIPPED WITH A BACKUP BATTERY.

5. CARBON MONOXIDE ALARMS COMBINED WITH SMOKE ALARMS SHALL COMPLY WITH SECTION R315, ALL APPLICABLE STANDARDS, AND REQUIREMENTS FOR LISTING AND APPROVAL BY THE OFFICE OF THE STATE FIRE MARSHALL, FOR SMOKE ALARMS.

ENERGY COMPLIANCE:

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 THERE 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.

- ELECTRIC COOKTOP READY. SYSTEMS USING GAS OR PROPANE COOKTOP TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING:

1. 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 50 AMPS MINIMUM. THE BLANK COVER SHALL BE INDENTIFIED AS "240V READY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

2. 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."

6. AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY HABITABLE ROOM, IN BATHROOM, HALLWAYS, STAIRWAYS, ATTACHED GARAGES,

7. LOCATION AND INSTALLATION REQUIREMENTS FOR LUMINARIES SHALL COMPLY WITH ALL APLLICABLE PROVISIONS OF THE 2022 CALIFORNIA ELECTRICAL CODE ARTICLE 410.

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.

RERMITTED IN WET OR DAMP LOCATIONS.

) IS NOT PERMITTED IN A WET LOCATION

P LOCATIONS SHALL BE INSTALLED SUCH THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMPHOLDERS, LUMINAIRES INSTALLED IN WET LOCATIONS SHALL BE MARKED, "SUITABLE FOR WET LOCATIONS." ALL LUMINAIRES INSTALLED IN DAMP

18. ALL PERMANENTLY INSTALLED LUMINAIRES IN DWELLING UNITS SHALL BE HIGH EFFICACY AND HAVE MANUAL ON/OFF CONTROLS AND VACANCY SENSORS OR DIMMERS EXCEPT

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

- OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.

- 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:

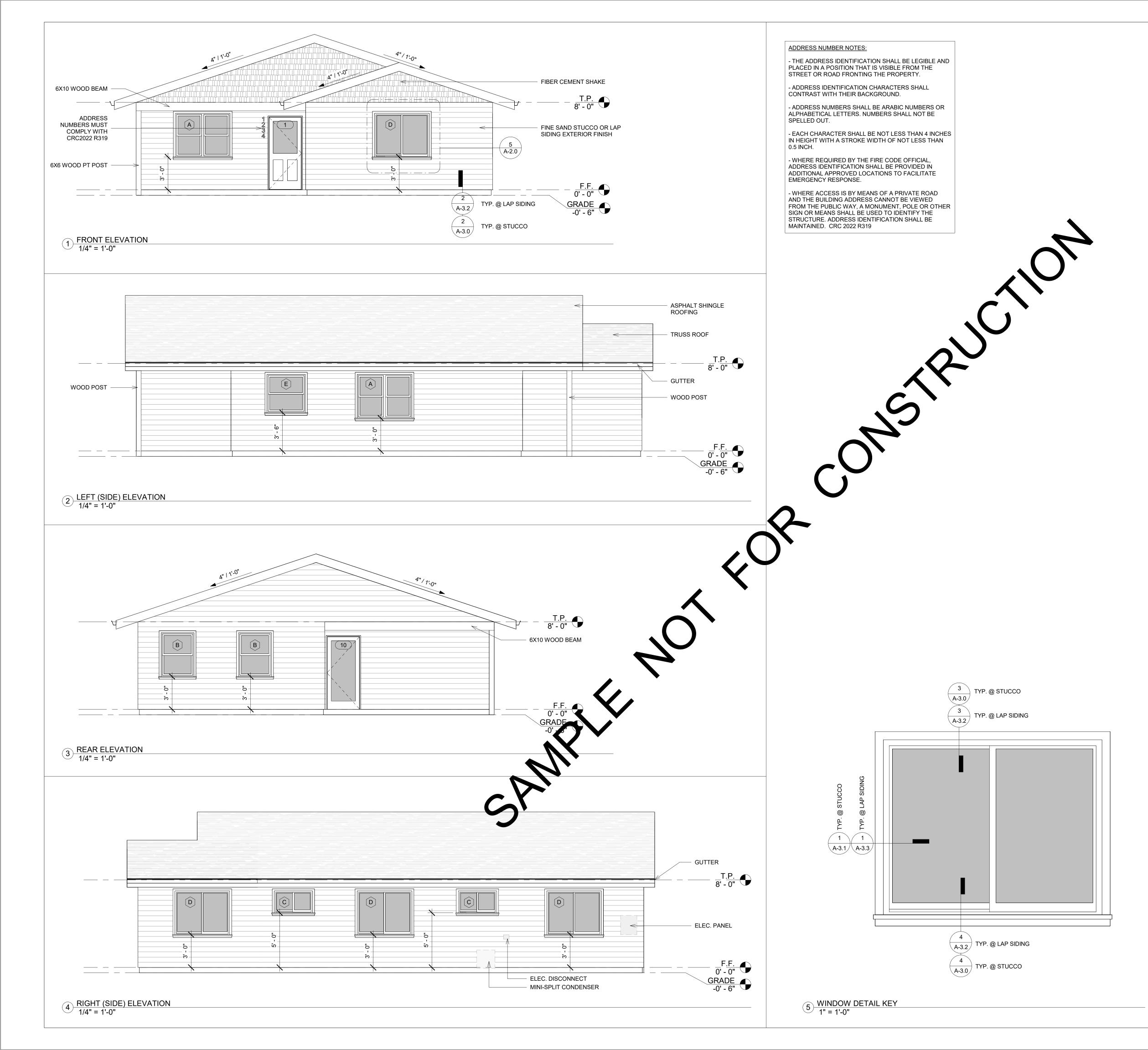
LAURA MILLER DESIGN architeture + interna 889 Embarcadero Drive, Suite 102 El Dorado Hills, Ca 95762 Iaura@lauramiller-design.com Jauramiller-design.com 916.607.3321
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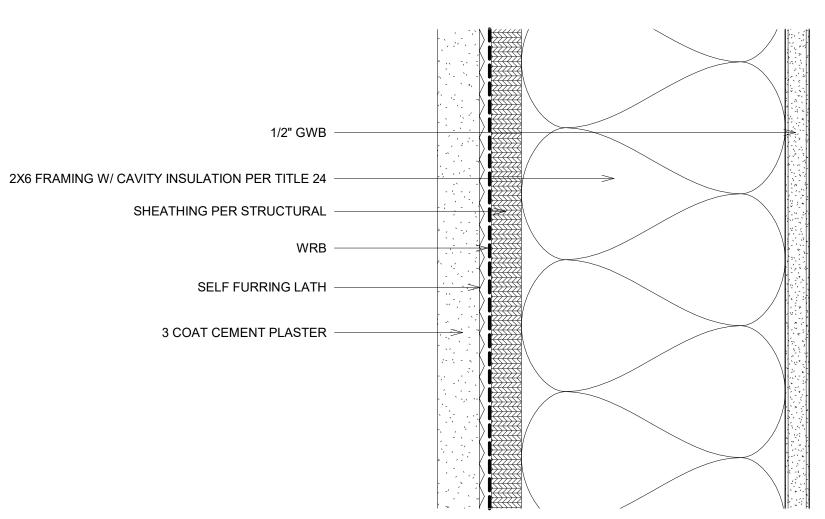
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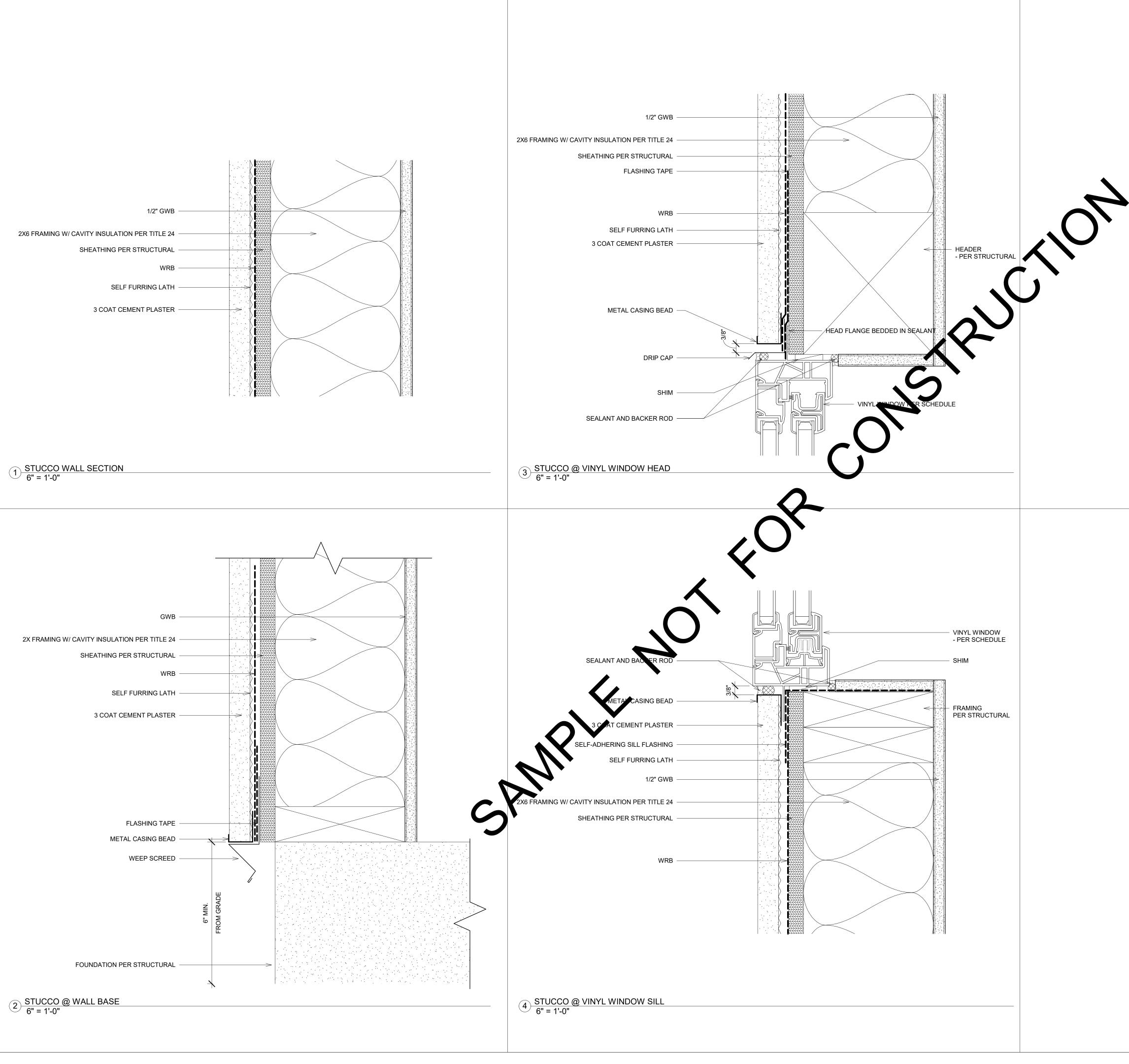
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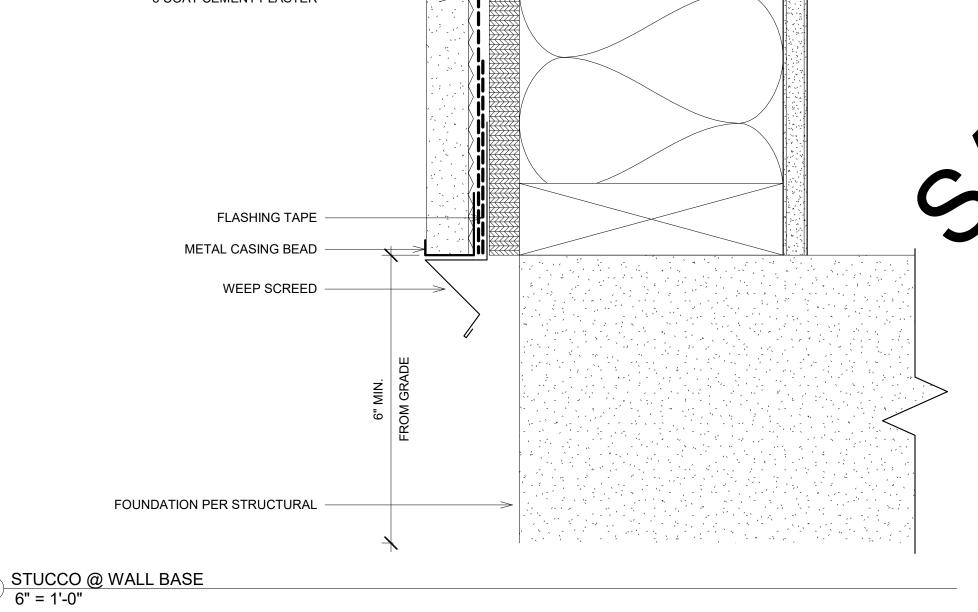


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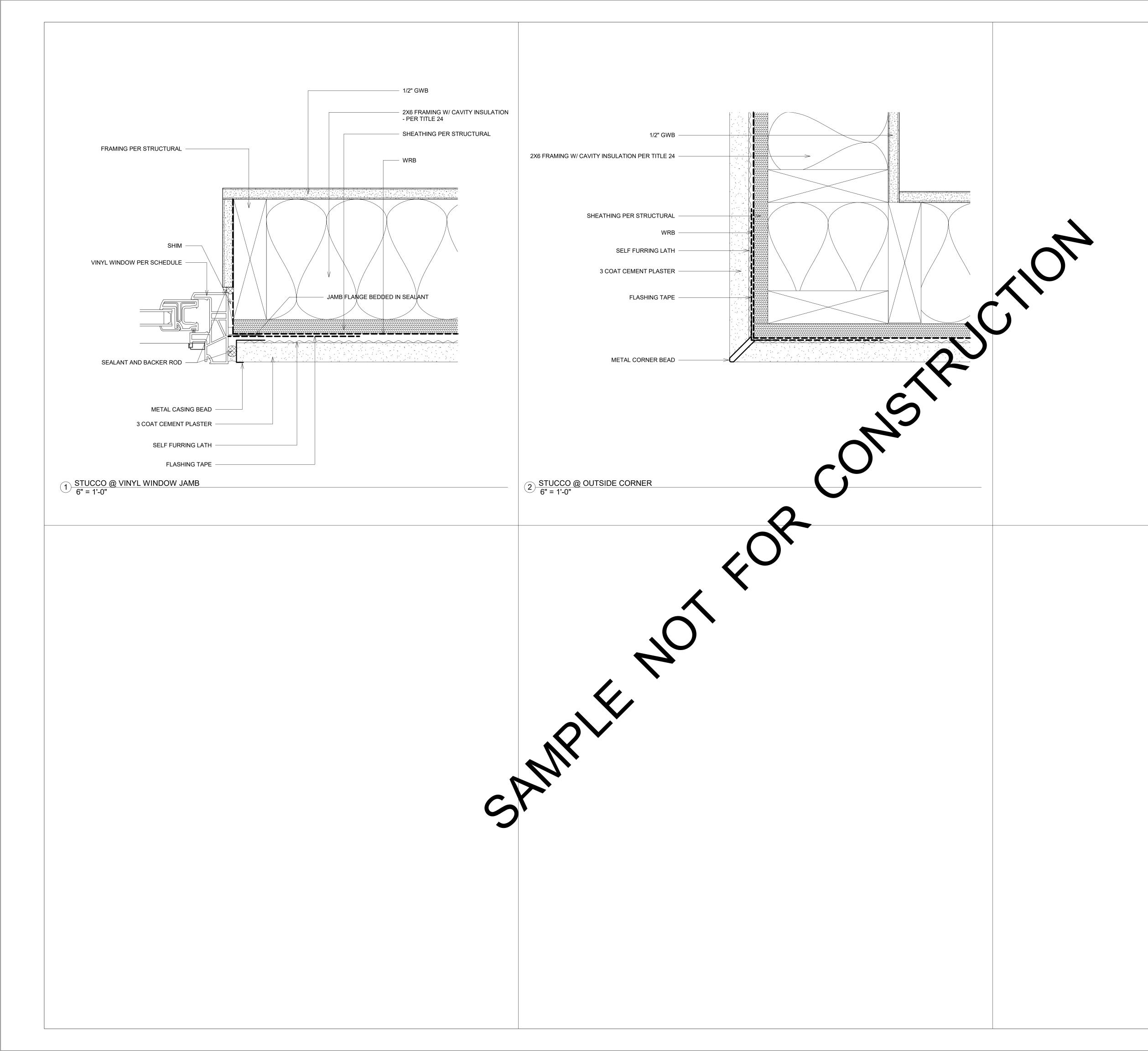




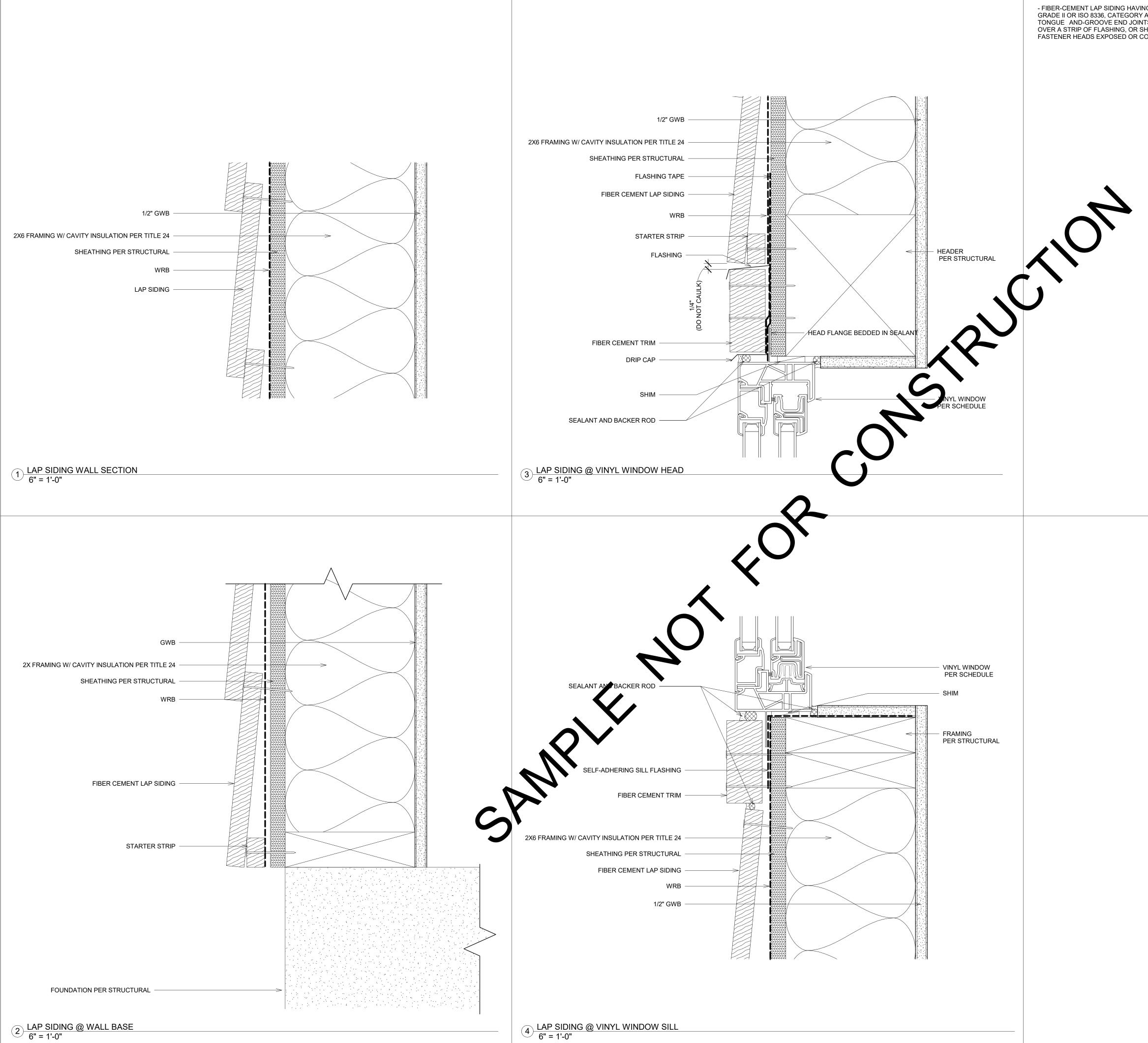




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6" = 1'-0" Date: MAR 2024 Drawn By: LM Approved By: OWNERS Sheet Number: A-3.0			

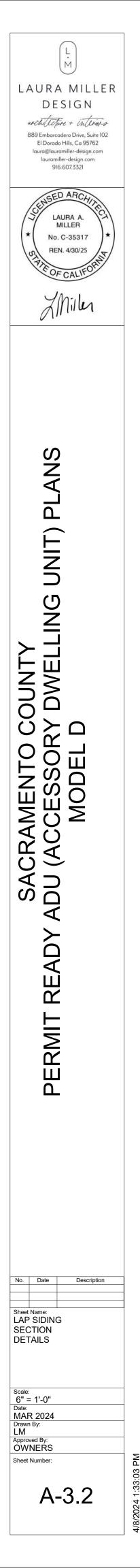


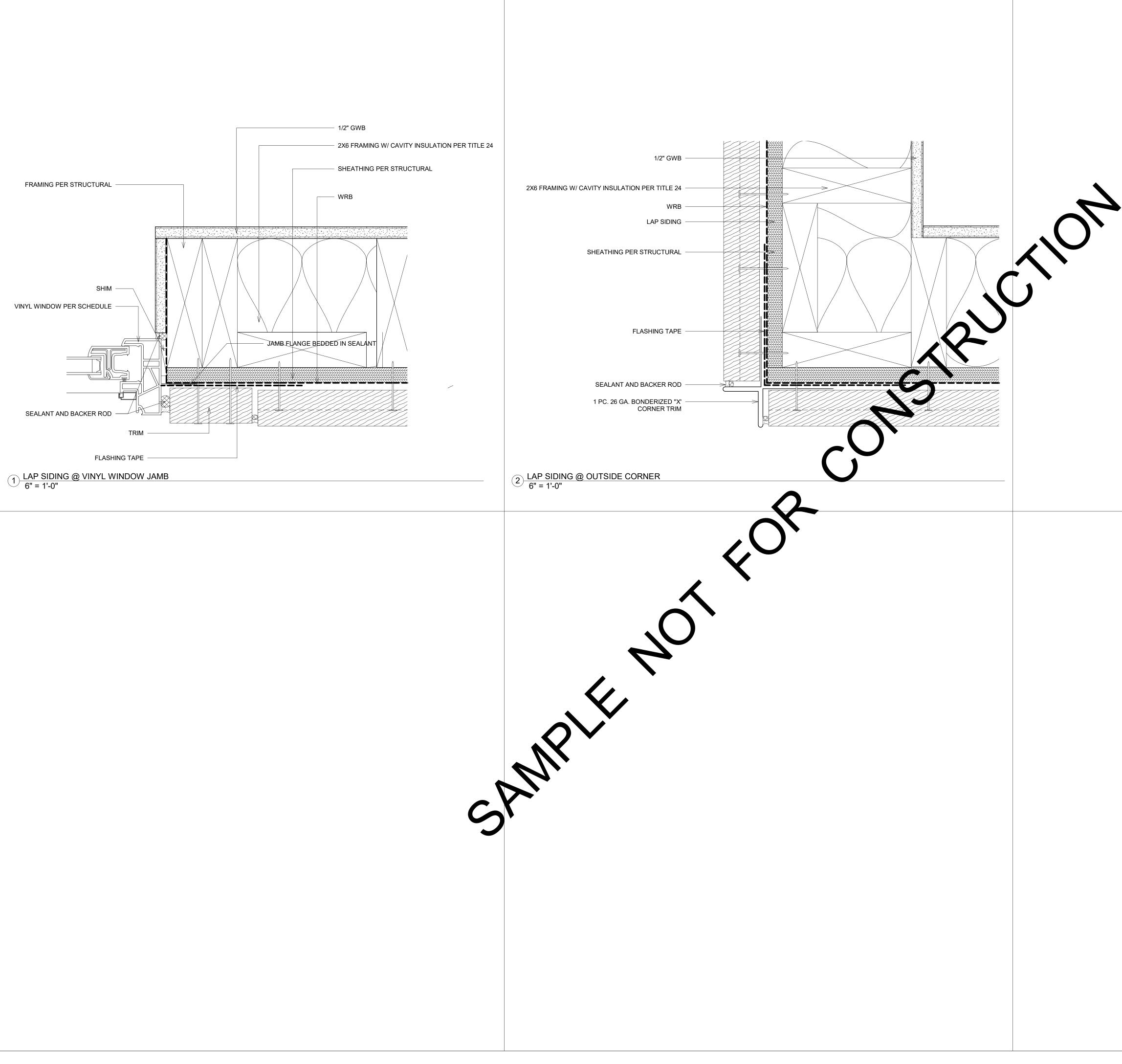
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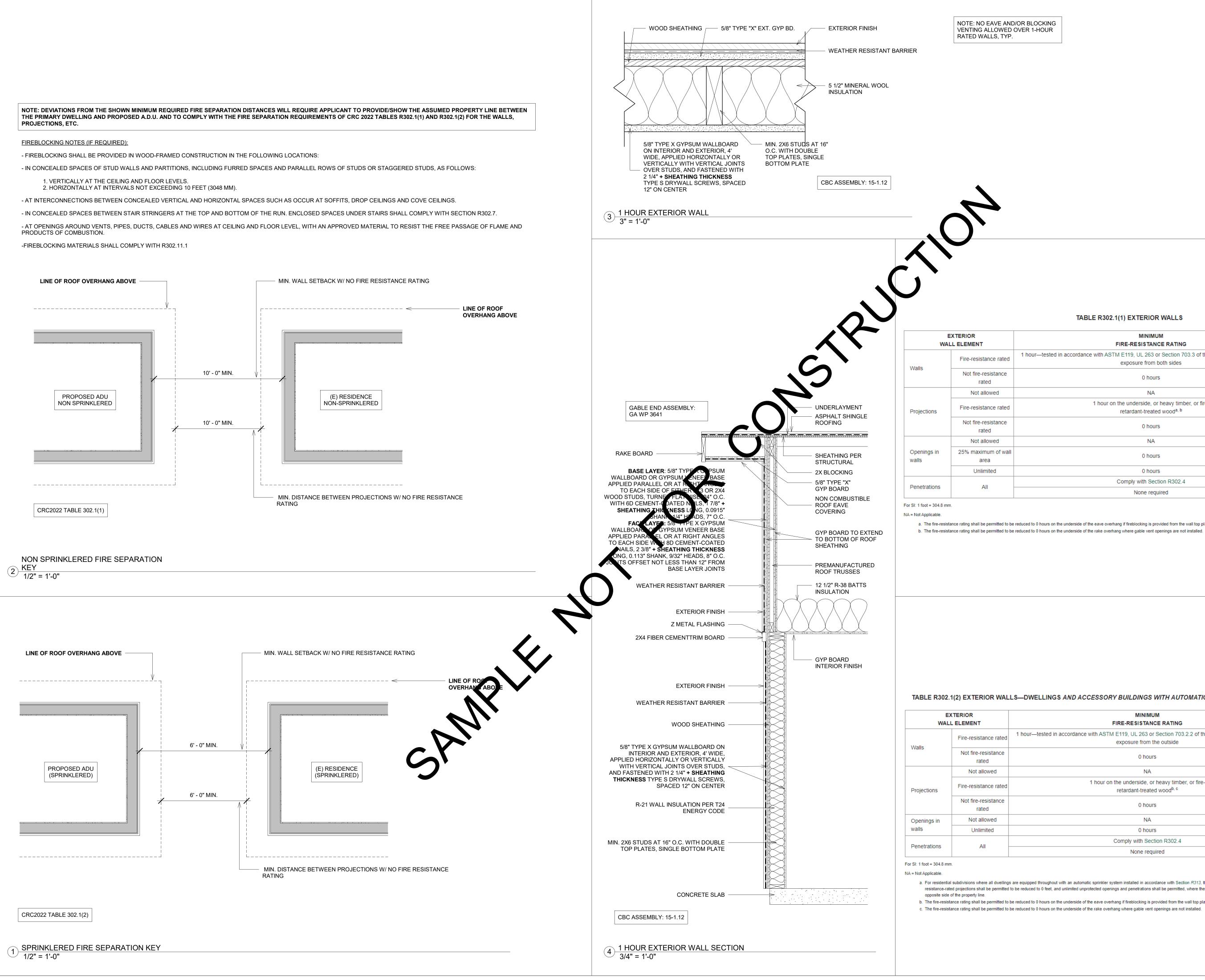
ING A MAXIMUM WIDTH (	OF 12 INCHES SHALL COMPLY	WITH THE REQUIREMENTS (	OF ASTM C1186, TYPE A, MINIMUM
Y A, MINIMUM CLASS 2. L	AP SIDING SHALL BE LAPPED	A MINIMUM OF 11/4 INCHES (	32 MM) AND LAP SIDING NOT HAVING
NTS SHALL HAVE THE EN	IDS PROTECTED WITH CAULK	ING, COVERED WITH AN H-S	ECTION JOINT COVER, LOCATED
SHALL BE DESIGNED TO	COMPLY WITH SECTION R703	.1. LAP SIDING COURSES SH	ALL BE INSTALLED WITH THE
CONCEALED, IN ACCORE	DANCE WITH TABLE R703.3(1)	OR APPROVED MANUFACTU	RER'S INSTRUCTIONS.

LAP SIDING NOTES:





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LAURA MILLER

# TABLE R302.1(1) EXTERIOR WALLS

MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
1 hour—tested in accordance with ASTM E119, UL 263 or Section 703.3 of the <i>California Building Code</i> with exposure from both sides	0 feet
0 hours	≥ 5 feet
NA	< 2 feet
1 hour on the underside, or heavy timber, or fire- retardant-treated wood <sup>a, b</sup>	≥ 2 feet to < 5 feet
0 hours	≥ 5 feet
NA	< 3 feet
0 hours	3 feet
0 hours	5 feet
Comply with Section R302.4	< 3 feet
None required	3 feet
	FIRE-RESISTANCE RATING  1 hour—tested in accordance with ASTM E119, UL 263 or Section 703.3 of the California Building Code with exposure from both sides  0 hours NA 1 hour on the underside, or heavy timber, or fire- retardant-treated wood <sup>a, b</sup> 0 hours

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.

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

	MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
ated	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	0 feet
nce	0 hours	3 feet <sup>a</sup>
	NA	< 2 feet
ated	1 hour on the underside, or heavy timber, or fire- retardant-treated wood <sup>b, c</sup>	2 feet <sup>a</sup>
nce	0 hours	3 feet
	NA	< 3 feet
	0 hours	3 feet <sup>a</sup>
	Comply with Section R302.4	< 3 feet
	None required	3 feet <sup>a</sup>

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 fireresistance-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

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.

S AN Ω  $\frown$ **—** ND C Z DWEI  $\circ \succ$ AODE Ш CRAN (ACC SA( 4 RE PERMIT No. Date Description FIRE DETAILS

As indicated

MAR 2024 Drawn By:

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	10 9	8 7	6	5	4
	TRUSS NOTES	CONCRETE		NAILING SCHEDULE	
	DESIGN LOADS:	<ol> <li>CONCRETE 28 DAY COMPRESSIVE STRENGTH, F'C = 2500PSI, U.N.O.</li> <li>WATER TO CEMENT RATIO SHALL NOT EXCEED 0.50.</li> </ol>		REF. CBC 2022, TABLE 2304.10.2. ALL NAIL NAILS CONFORMING TO THE FOLLOWING	LS FOR STRUCTURAL WORK SHALL BE COMMON WIRE
	TOP CHORD PER TRUSS CALCS = 12PSF	<ol> <li>MOIST CURE SLABS FOR A MINIMUM OF 3 DAYS.</li> <li>CONCRETE MIX DESIGN SHALL BE PREPARED BY A 3RD PARTY INDEPENDENT LAI</li> </ol>		8D	0.131" Ø X 2 ½"
А	BOTTOM CHORD	<ul> <li>OF CONCRETE MIX PROPORTIONS SHALL BE PER THE CALIFORNIA BUILDING COI</li> <li>5. CEMENT SHALL CONFORM TO ASTM C-150 TYPE I OR II.</li> <li>6. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33. AGGREGATES FOR LI</li> </ul>		10D 10D SHORTS	0.148" Ø X 3" 0.148" Ø X 1 $\frac{5}{8}$ " PLUS THICKNESS OF S.P.
	PER TRUSS CALCS = 8PSF 1. TOP CHORD TO BE MINIMUM 2X4 TYPICAL - 2X4 ALL OTHER MEMBERS (U.N.O.).	<ul> <li>9. REINFORCING DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE</li> </ul>		16D 20D	0.162" Ø X 3 ½" 0.192" Ø X 4"
	<ol> <li>TRUSS MEMBERS SHALL BE DOUGLAS FIR (DF) NO.2 OR BETTER.</li> <li>WOOD UNDER PLATES MUST BE FREE OF KNOTS, KNOT HOLES AND GREATLY DISTORTED GRAINS.</li> </ol>	AND DENOTE CLEAR COVERAGE. CONCRETE COVERAGE SHALL BE AS FOLLOWS: AGAINST GROUND (EXCEPT SLABS) -3". CONCRETE EXPOSED TO GROUND BUT P		HOLES SHALL BE SUB-DRILLED WHERE NEG BELOW OR ON PLANS SHALL BE MINIMUN	CESSARY TO PREVENT SPLITTING. NAILING NOT NOTED M OF NAILS AT EACH CONTACT.
	4. 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	<ul> <li>SLABS (ON GROUND) -2" CLEAR FROM TOP U.N.O.</li> <li>10. ALL PREHEATING AND WELDING OF REINFORCING BARS SHALL BE DONE IN ACC D1.4 LATEST EDITION AND SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIER</li> </ul>		8D NAILS FOR 1" MATERIAL AND 16D NAI 1. BLOCKING BTWN CEILING JSTS, RAFTER	R OR TRUSS TO TOP PLATE OR FRAMING
	<ul> <li>FROM CARRIER TRUSS REACTIONS. ALL CALCULATIONS SHALL BE SIGNED BY A CIVIL ENGINEER</li> <li>REGISTERED IN THE STATE OF CALIFORNIA.</li> <li>5. FABRICATION AND DESIGN SHALL CONFORM TO THE ICBO, CURRENT EDITION AND ANSI/TPI 1-2014 OF</li> </ul>	CONTRACTOR SHALL FURNISH TO THE LABORATORY, REBAR MILL CERTIFICATES 11. REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANI		<ul> <li>BELOW; EACH END, TOENAIL</li> <li>BLOCKING BTWN RAFTERS OR TRUSS N TRUSS; EACH END, TOENAIL</li> </ul>	3-8D OT AT THE WALL TOP PLATE, TO RAFTER OR
	<ul> <li>THE TRUSS PLATE INSTITUTE.</li> <li>PROVIDE TEMPORARY ERECTION BRACING AS REQUIRED.</li> </ul>	REINFORCED CONCRETE CONSTRUCTION". 12. WIRE FABRIC SHALL CONFORM TO ACI 318-3.5.1, ACI 318-3.5.7, AND ASTM A-10		<ol> <li>FLAT BLOCKING TO TRUSS AND WEB FIL</li> <li>CEILING JST TO TOP PLATE; EACH JST, T</li> </ol>	LLER; FACE NAIL
	<ol> <li>ALLOWABLE STRESS INCREASE FOR LOAD DURATION SHALL BE 25% (PERCENT) MAXIMUM.</li> <li>INCREASE FOR ALLOWABLE STRESSES FOR REPETITIVE MEMBERS, SHALL BE PERMISSIBLE.</li> </ol>	<ol> <li>REINFORCING STEEL SHALL CONFORM TO ASTM A615-GRADE 60 FOR NO. 5 AND A615-GRADE 40 FOR NO. 4 AND SMALLER, EXCEPT REINFORCING STEEL TO BE W TO ASTM A706.</li> </ol>	•	<ol> <li>CEILING JST NOT ATTACHED TO PARALL</li> <li>CEILING JST ATTACHED TO PARALLEL RA</li> </ol>	LEL RAFTER, (NO THRUST); FACE NAIL 3-16D AFTER (HEEL JOINT); FACE NAIL TABLE 2308.7.3.1
	9. EFFECTS OF ECCENTRIC LOADING SHALL BE CONSIDERED IN THE DESIGN OF ALL JOINTS. 10. GENERAL CONTRACTOR TO PROVIDE WEB BRACING AS REQUIRED BY TRUSS MANUFACTURERS DESIGN. 11. BUILT-UP GIRDER TRUSSES SHALL BE LAMINATED USING $\frac{1}{2}$ " BOLTS AT 24" CC MAXIMUM THROUGH ALL	14. SPLICES IN CONTINUOUS REINFORCEMENT FOR A CLASS "A" LAP SPLICE FOR NO CONCRETE WHERE LESS THAN 12" OF CONCRETE IS BELOW THE LAP SPLICE SHA	LL BE 48 BAR DIAMETERS	<ol> <li>COLLAR TIE TO RAFTER; FACE NAIL</li> <li>RAFTER OR ROOF TRUSS TO TOP PLATE</li> <li>ROOF RAFTERS TO RIDGE VALLEY OR HI</li> </ol>	; 2TOENAIL ONE SIDE, 1 OPPOSITE 3-10D
В	MEMBERS. 12. ALL HARDWARE REQUIRED FOR CONNECTING TRUSSES (JACK TO HIP, HIP TO GIRDER, GIRDER TO	AND SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART. CLASS " 63 BAR DIAMETERS. SPLICE CONTINUOUS BARS IN SPANDRELS, GRADE BEAMS, BARS AT MID-SPAN; BOTTOM BARS AT CENTERLINE AT SUPPORT, UNLESS NOTE	ETC., AS FOLLOWS: TOP	BEAM; END NAIL 10. STUD TO STUD (NOT AT BRACED WALL	PANELS); 24" OC FACE NAIL 2-16D 16D
	GIRDER, ETC) SHALL BE DESIGNED, DETAILED AND SPECIFIED BY TRUSS FABRICATOR. 13. TRUSS MANUFACTURER SHALL SUBMIT LATEST ICBO APPROVED TEST DATA FOR TRUSS METAL PLATE CONNECTIONS TO ARCHITECT AND/OR ENGINEER PRIOR TO FABRICATION.	IN WWF SHALL BE 1.5 MESHES WIDE. 15. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC., TO BE EMBEDDED IN		<ul> <li>11. STUD TO STUD AND ABUTTING STUDS A BRACED WALL PANEL); 16" OC FACE NA</li> <li>12. BUILT UP HEADER (2" TO 2" HEADER); 1</li> </ul>	AIL 16
	14. TRUSS MANUFACTURER TO PROVIDE PLAN DRAWING SHOWING TRUSS LOCATIONS AND TRUSS PROFILE SHOP DRAWINGS PRIOR TO FABRICATION.	TIED SECURELY IN POSITION BEFORE PLACING CONCRETE PER ACI 318-12.18. 16. CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND SURFACE FREE OF LOOSE		13. CONTINUOUS HEADER TO STUD; TOEN, 14. TOP PLATE TO TOP PLATE; 16" OC FACE	AIL 8D
	15. GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS SHOWN ON TRUSS PROFILES WITH ARCHITECTURAL DRAWINGS AND IN FIELD WITH WALL LAYOUT PRIOR TO FABRICATION. PROVIDE SHOP	<ul> <li>BE ROUGHENED BY SAND BLASTING OR CHIPPING THE ENTIRE SURFACE TO PRO DEFORMATIONS.</li> <li>17. REMOVE ALL DEBRIS FROM FORMS BEFORE CASTING ANY CONCRETE.</li> </ul>	DOCE 74 DEEP	<ul> <li>15. TOP PLATE TO TOP PLATE, AT END JOIN</li> <li>16. BOTTOM PLATE TO JST, RIM JST, BAND</li> </ul>	8-16D
	DRAWINGS WITH DIMENSIONS REVIEWED AND APPROVED BY GENERAL CONTRACTOR. 16. TRUSS MANUFACTURER TO ACCOUNT FOR THE WEIGHT OF ALL MECHANICAL EQUIPMENT IN DESIGN OF ALL TRUSSES WHICH SUPPORT SUCH UNITS.	18. 3'-0" SHALL BE THE MAXIMUM ALLOWED FREE FALL FOR CONCRETE TO MORE C ACI 318-5.10.		PANELS); 16" OC FACE NAIL 17. BOTTOM PLATE TO JST, RIM JST, BAND	16D
		19. CONSOLIDATE CONCRETE PLACED IN FORMS BY MECHANICAL VIBRATING EQUIP BY HAND-SPADING, RODDING OR TAMPING. USE EQUIPMENT AND PROCEDURE OF CONCRETE IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF ACI 3	S FOR CONSOLIDATION	PANELS; 16" OC FACE NAIL	
		CONCRETE AND PROJECT CONDITIONS. 20. NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE	E CONCRETED.	<ol> <li>19. TOP OR BOTTOM PLATE TO STUD; END</li> <li>20. TOP PLATES, LAPS AT CORNERS AND IN</li> <li>21. 1" BRACE TO EACH STUD &amp; PLATE, FACE</li> </ol>	ITERSECTIONS; FACET IL - 2-16D
С		<ul> <li>21. ALL SAW CUTTING SHALL BE DONE AFTER INITIAL SET HAS OCCURRED TO AVOID BY THE SWABBED, BUT BEFORE INITIAL SHRINKING HAS OCCURRED.</li> <li>22. DRILL THROUGH STEEL COLUMNS, BEAMS AND PLATES TO PASS CONTINUOUS F</li> </ul>		22. 1"X6" SHEATHING TO EACH BEARING; F 23. WIDER THAN 1"X8" SHEATHING TO EAC	FACE NAIL         2-8D           CH BEARING: FACE VAIL         3-8D
		23. ADDITIONAL REINFORCING IN PRECAST OR TILT-UP PANELS REQUIRED FOR LIFT SUPPLIED BY THE CONTRACTOR.	ING STRESSES SHALL BE	<ul> <li>24. JOIST TO SILL, TOP PLATE, OR GIRDER; 1</li> <li>25. RIM JST, BAND JST, OR BLOCKING TO TO TOENAIL</li></ul>	OP PLATE, SILL, OR OTHER FRAMING; 6" OC
		24. PROVIDE 2-NO.5X4'-0" DIAGONAL REINFORCING AT MID-DEPTH OF SLAB AT ALL TYPICAL.	L REENTRANT CORNERS	26. 1" X 6" SUBFLOOR OR LESS TO EACH JST 27. 2" SUBFLOOR TO JST OR GIRDER; BLI	T, FACE WAR 2-8D D AND FACE NAIL 2-16D
		FOUNDATIONS		<ul> <li>28. 2" PLANKS (PLANK &amp; BEAM - FLOOR AN</li> <li>29. BUILT UP GIRDERS AND BEAMS, STAGGERED ON OPP SIDES</li> </ul>	AROCE, EACH BEARING, FACE NAIL 2-16D 485 LAYERS; 32" OC FACE NAIL TOP & BOT. 20D
					TERS; EACH JST OR RAFTER, FACE NAIL
		<ol> <li>BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL. CHANGES IN BOTTOM OF FOR ELEVATION SHALL BE MADE ACCORDING TO STEPPED FOOTING DETAIL ON THE DETAIL SHEET.</li> </ol>		<ol> <li>JOIST TO BAND JOIST OR RIM JOIST; EN</li> <li>BRIDGING OR BLOCKING TO ST AAFTE</li> </ol>	
		2. ALL PILE CAPS, GRADE BEAMS, TIE BEAMS & OTHER FOOTINGS SHALL BE FORMI SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. FOUNDATIONS MAY BE	E CAST IN	33. WOOD STRUCTU AL PANUS, COMBINA	$\mathbf{h}$
D		NEAT EXCAVATIONS PROVIDED WRITTEN APPROVAL IS OBTAINED AND FOOTING INCREASED 2" IN WIDTH. USE 2X12 PLANK AT EDGE OF EXCAVATION TO PROTEC SLUFFING, AS REQUIRED.		<sup>3</sup> / <sub>4</sub> " AND LESS 7/ <sub>8</sub> - 1	8D NAILS SPACED @ 6"OC AT EDGES, 6"OC @ INTERMEDIATE SUPPORT FOR ROOF EXCEPT AT 4" O.C.
		3. WORK PERFORMED ON FOUNDATION SHALL BE DONE IN ACCORDANCE WITH T REQUIREMENTS OF THE CURRENT CBC		1X "	10D FOR ROOF EXCEPT AT 4 O.C. WHEN INTERMEDIATE SUPPORT EXCEEDS 48" O.C. AND WIND
		4. IF A TWO POUR FOUNDATION IS UTILIZED, THE COLD JOINT BETWEEN THE EXTE FOOTING AND SLAB-ON-GRADE SHOULD BE LOCATED AT LEAST 4 INCHES ABOV GRADE. IF THIS IS NOT DONE, A WATERSTOP BETWEEN THE TWO POURS SHALL	E ADJACENT	<sup>1</sup> / <sub>2</sub> OR SS 5/8"	6D speed is greater than 130MPH8DIN EXPOSURE B AND 110MPH IN C.
			- 2X12		/
				WOOD	
		FOOTING WIDTH +2"			EARTH OR CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR. VE DOUBLE TOP PLATES, LAPPED AT WALL AND PARTITION
			$\frown$	<ul> <li>INTERSECTION WITH 3-16D NAILS.</li> <li>PROVIDE SOLID BLOCKING BETWEEN JC</li> </ul>	
E		SHEARWALL	$\mathbf{V}$		VELS. DRM WITH THE FOLLOWING SPECIFICATION: GRADING RULES NO.17 DF NO.2, U.N.O.
Ľ		1. MIN 2X FRAMING MEMBERS OR BLOCKING REQUIRED AT ALL PANEL EDGES IN	SHEAR WALL.	REDWOOD - CALIFORNIA REDWOOD AS	SSOCIATION GRADING RULES, LATEST EDITION. 24F-V4 OR 24F-V8 FOR CANTILEVERED BEAMS. BEAMS SHALL
		<ol> <li>TABLE VALUES ARE BASED ON 16" O.C. STUD SPACING.</li> <li>ALL ANCHOR BOLTS IN WALLS INCLUDING SHEARWALLS REQUIRE 3"x3"x.229" T WASHERS. ONE EDGE OF THE STEEL PLATE WASHER SHALL EXTEND TO WITHIN 1</li> </ol>			FIED AS REQUIRED IN ANSI/AITC A190.1 AND ASTM D3737. UED LAMINATED TIMBER AITC 117 LATEST ADDITION. SUBMIT
		MUDSILL ON THE SIDE(S) WITH APA RATED WOOD SHEATHING. THE HOLE IN THE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WITH COUP TO S	IE PLATE	PLYWOOD - U.S. PRODUCT STANDARDS	S PSI AND PS2. PLYWOOD SHALL BE APA RATED EXPOSURE 1, OR 1 AND C-D TO MEET PS1 AND PS2 AS REQUIRED. CDX (C-D
		<ul> <li>LARGER THAN THE BOLT DIAMETER AND A SLOT LENGT I NOT TO EXCEED 1 3/4' PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER</li> <li>4. SOLE PLATE NAILING LESS THAN 6" O.C. SHALL PLATE STANGER 121/2" ABOUT THE</li> </ul>	AND THE NUT.	6. PRESSURE TREATED DOUGLAS FIR - AW	ND BOARD) @ FLOORS ADN ROOF - U.N.O. /PA (AMERICAN WOOD PRESERVERS' ASSOCIATION) U1. USE
		<ul> <li>4. SOLE PLATE NAILING LESS THAN 6 O.C. SHALL FESTAUBERE 1/2 ABOUT THE THE SOLID RIM.</li> <li>5. (2) ANCHOR BOLTS MINIMUM PER SHEAR VIEL.</li> </ul>	CENTERLINE OF	LEVEL OF 0.25 LB/FT^3 AND SHALL NOT	ATERBORN PRESERVATIVES SHALL HAVE A MINIMUM RETENTION I CONTAIN CHROMIUM, COPPER, OR ARSENATE. NEWLY EXPOSED DDIFICATION SUCH AS CUTTING, BORING, OR HANDLING, SHALL BE
		<ul> <li>6. 3X AND 4X MEMBERS AT ADJOINING PANEL EDGTS MUST BE A SINGLE MEMBER</li> <li>7. FOR SHEAR WALLS ON RAISED WOOD COUND. TICK AND UPPER FLOORS REQ.</li> </ul>	UIRING LTP5		AWPA M-4. BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE
		<ul> <li>CLIPS AT THE 2x SOLE PLATE, A MINIMUM OF CLIPS MUST ALWAYS BE INSTA</li> <li>8. SOLE PLATE TO RIM, OR SOLE PLATE TO BEAM/BLOCKING TO BE 2X U.O.N.</li> <li>9. WHEN A SHEARWALL IS LOCATED IN A DEPROTECTED WALL, THE FIELD NAILING</li> </ul>		<ul> <li>BOLT PLUS <sup>1</sup>/<sub>16</sub>".</li> <li>8. HOLES FOR LAG SCREW SHALL BE BORE REST NO LARGER THAN THE ROOT OF T</li> </ul>	ED TO THE SAME DIAMETER AND DEPTH AS THE SHANK AND THE THE THREAD.
F		O.C. MAX REGARDLESS OF THE SHEAR WALL SPECIFICATIONS. EDGE NAILING AN SHALL BE THE SAME AS A PECIFIED ON THE PLANS.		USED TO LUBRICATE THE SCREWS.	LL BE SCREWED AND NOT DRIVEN INTO PLACE. SOAP MAY BE
		<ol> <li>DRYWALL SCREWS ARE REPORTED TO SUBSTITUTE FOR THE 5D AND 6D NAILS.</li> <li>ALL FIELD NAILING SHALL BE @ 1. O.C. MAX., U.N.O.</li> </ol>		WHICH BEAR ON WOOD. APPLIES ALSO	PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS TO INSERTED EXPANDING FASTENERS, RED HEAD ETC.
				<sup>1</sup> ⁄ <sub>2</sub> " DIA.	MI WASHER         STEEL WASHER           2" DIA. X <sup>15</sup> / <sub>16</sub> "         3" X 3" X <sup>1</sup> / <sub>4</sub> "           2 <sup>3</sup> /" DIA. X <sup>15</sup> / <sub>16</sub> "         3" X 2" X 1/4"
				5/8" DIA. 3/4" DIA. 7/4" DIA.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
				7/8" DIA. 1" DIA.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
				CLOSING IN OR AT COMPLETION OF JOI	TIGHTENED ON INSTALLATION AND RETIGHTENED BEFORE B. KING WHERE NOTED ON ROOF OR FLOOR FRAMING PLANS AND
				WITH BLOCKING SAME AS STUDS AT W. 13. LAY ALL STRUCTURAL PLYWOOD ON RC	
					IBER ARE THOSE FOR SIMPSON STRONG-TIE COMPANY. CCEPTANCE MAY BE SUBSTITUTED WITH WRITTEN APPROVAL
G				FROM THE ENGINEER OF RECORD. ALL . OTHERWISE.	JOIST HANGERS SHALL BE SIMPSON U SERIES UNLESS NOTED
				ZINC COATED GALVANIZED STEEL (PER	ED & FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ASTM A153, CLASS G185), STAINLESS STEEL, SILICON BRONZE OR ZINC COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A
				153.	THAN 19% MOISTURE CONTENT AT TIME OF INSTALLATION.

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# GENERAL CONSTRUCTION NOTES

- 1. 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.
- 2. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DRAWING (DO NOT SCALE DRAWING.) 3. 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. 4. REFER TO ARCHITECTURAL SHEETS FOR FLOOR PLANS, EXTERIOR ELEVATIONS, AND WINDOW AND DOOR SIZES AND TYPES.

# DESIGN CRITERIA

SEISMIC CRITERIA			GRAVITY LOADING	
SDC		D	ROOF LIVE	20psf
SITE CLASS		D	ROOF DEAD	12psf
RISK CATEGORY		II	WALL DEAD	17psf
SEISMIC IMPORTANCE FACTO	R	1.00		
RESPONSE MODIFICATION FA	CTOR	6.5		
SEISMIC FORCE RESISTING SYS	STEM:			
LIGHT FRAME WOOD SHEAR V	NALL		WIND CRITERIA	
			ULTIMATE WIND, Vult	93mph
Ss	1.322g		BASIC WIND, Vasd	76mph
S <sub>1</sub>	0.458g		WIND EXPOSURE	D
S <sub>DS</sub>	1.058g		INTERNAL PRESSURE COEFF	+1-0.18
S <sub>D1</sub>	0.763g		lw	1.0
Cs	0.163g			
Ωο	3.0		SOIL BEARING	1500psf
C <sub>D</sub>	3.5			
ANALYSIS PROCESS		NT LATERAL FORCE	CODES	
		······································	ASCE 7-16, CBC 2022, ACI318	-19, 2018 NDS

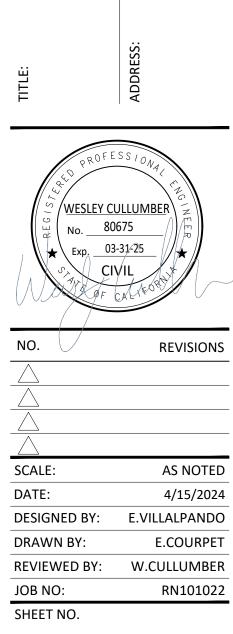
# STRUCTURAL INDEX

3

4

SN1 S1.0	STRUCTURAL NOTES AND SPECIFICATIONS FOUNDATION AND SHEARWALL PLAN
S2.0	SHEARWALL PLAN
S3.0	ROOF FRAMING PLAN
SD1	STRUCTURAL DETAILS
SD2	STRUCTURAL DETAILS
SD3	STRUCTURAL DETAILS

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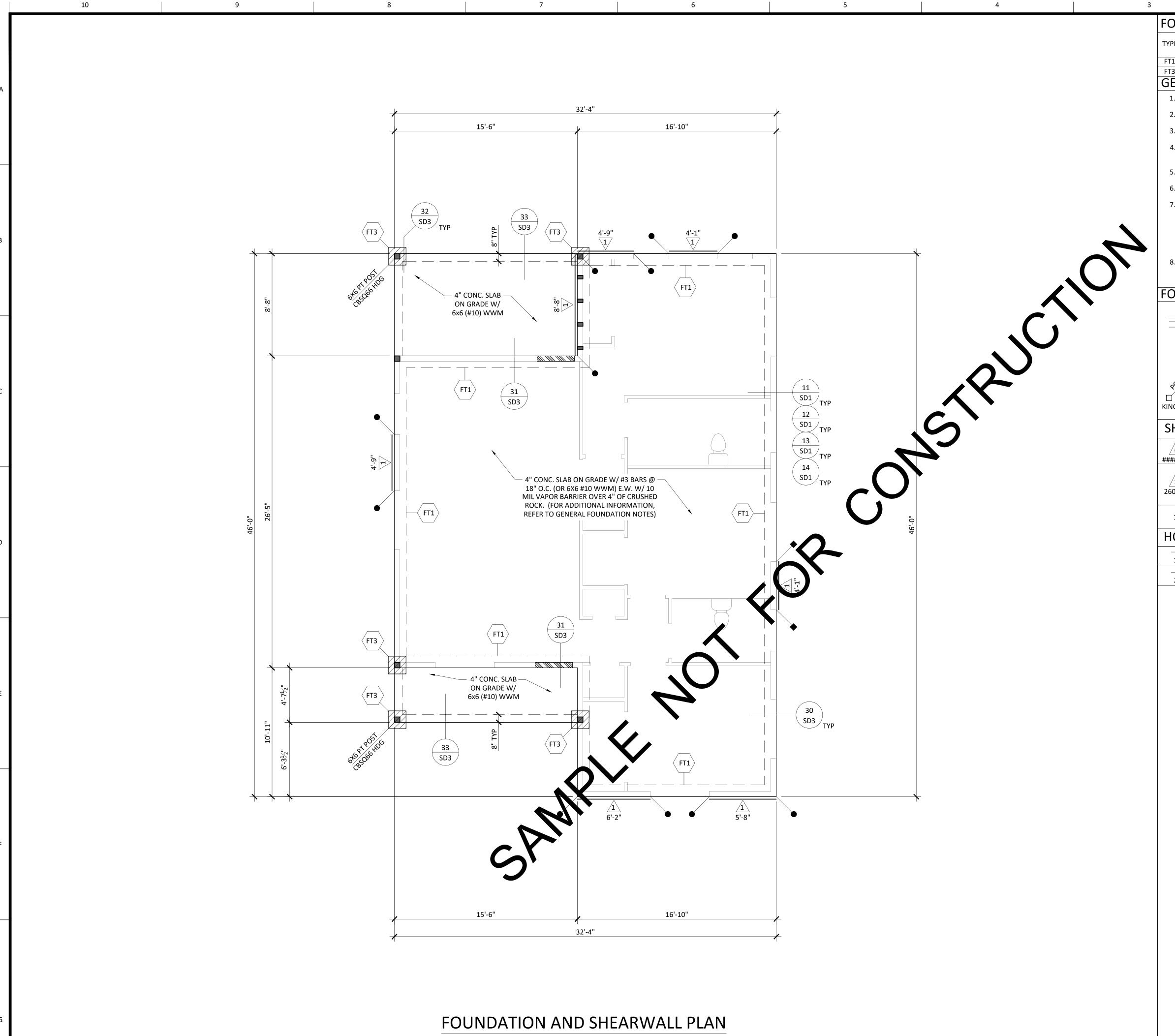
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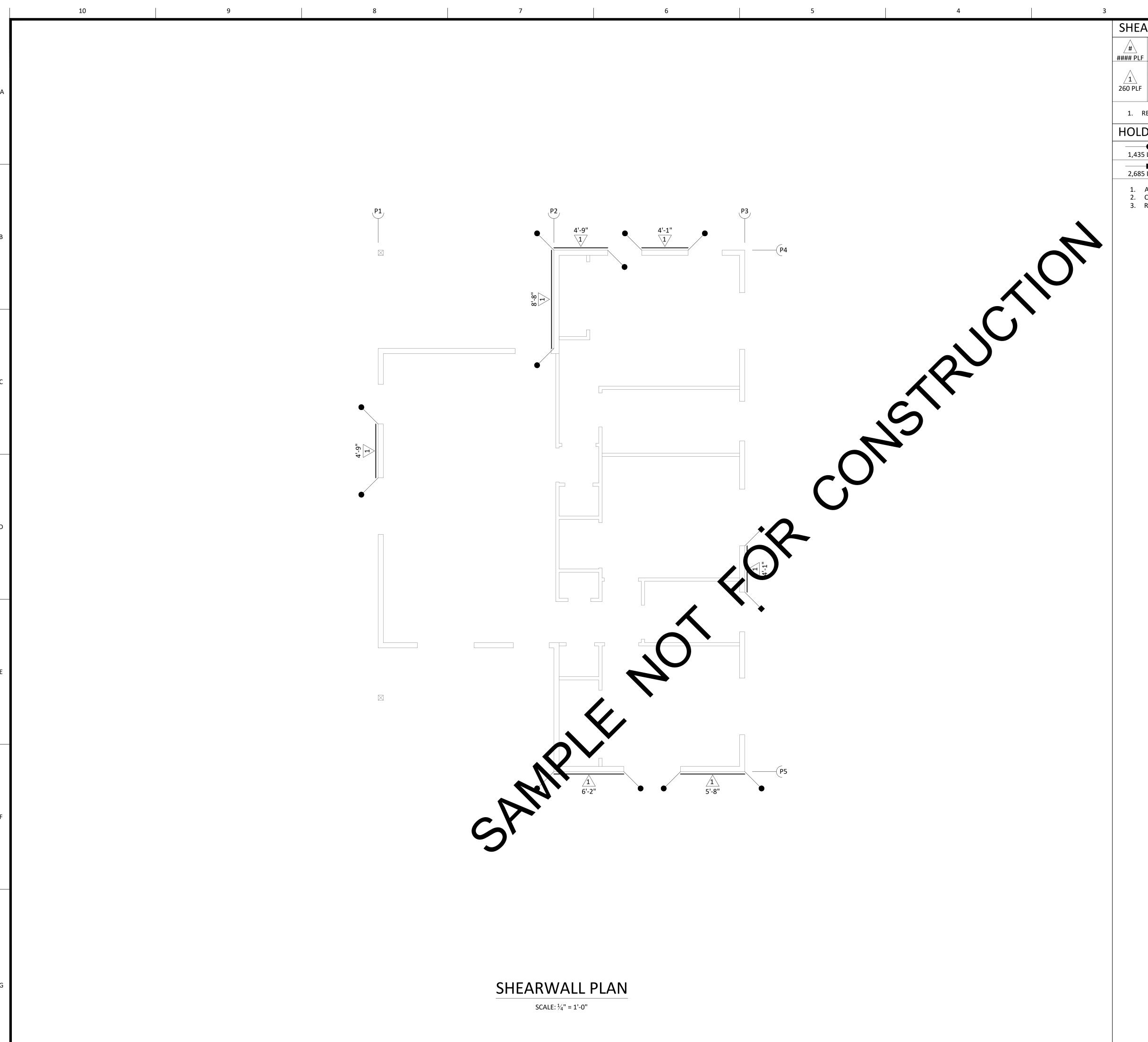


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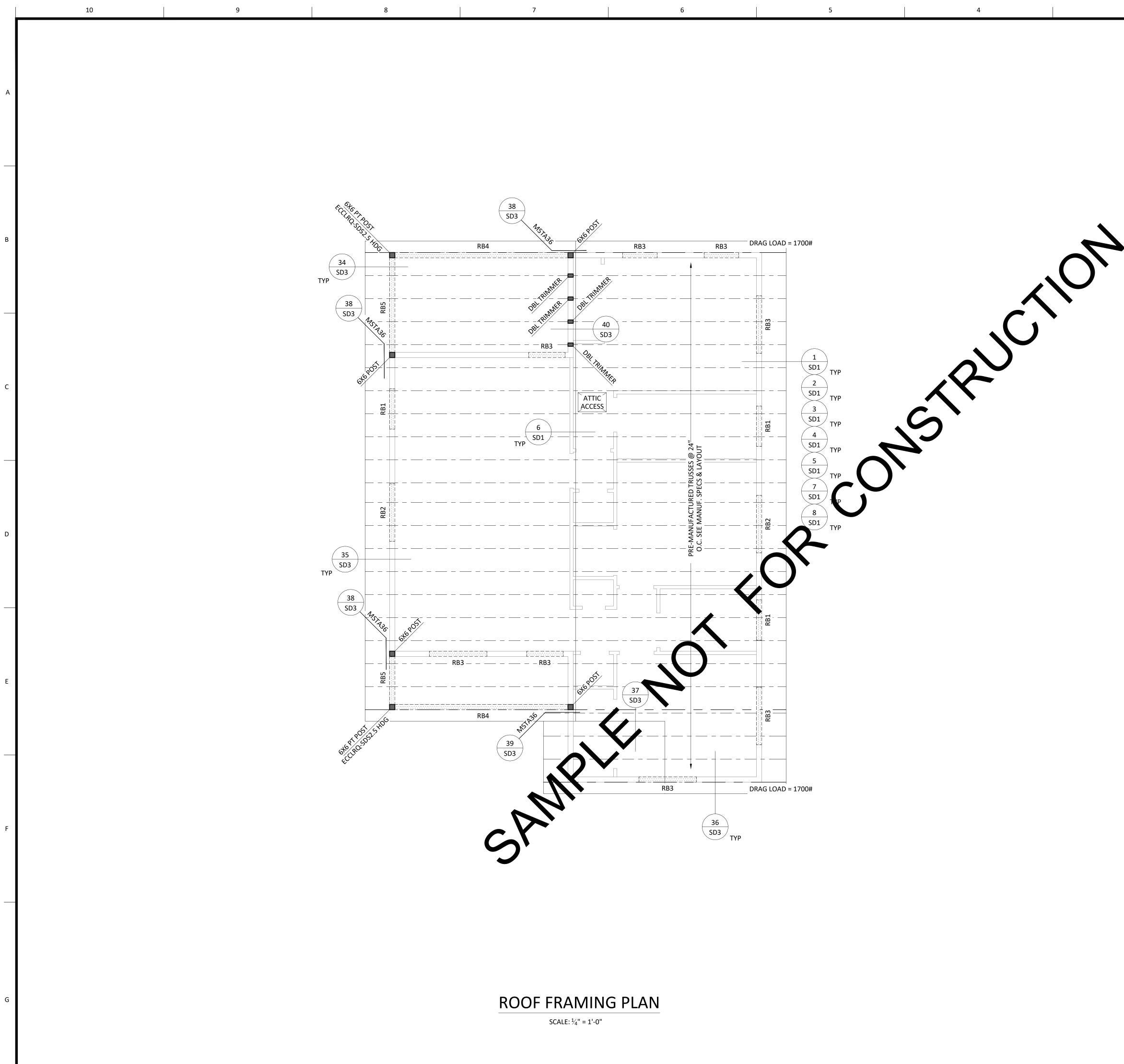
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SCALE: <sup>1</sup>/<sub>4</sub>" = 1'-0"

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	WITH A HOL 3. TYPICAL ON	DOWN OR POST B E STORY FOUNDAT	ASE CONN	ECTOR.							— Ш
	4. PROVIDE $\frac{1}{5}$ /8"	X10" ANCHOR BO									-9798 NY DRI
	STEEL WASH	IERS.									L6-251.
	6. ALL FOOTIN	GS, FOUNDATIONS	5, EXCAVAT			ID FILL SHA	ALL COMPLY TO	) THE P	ROVISIONS		91 6930
	7. SLAB REINFO	DRCEMENT SHALL	BE PROVID					•			
<ul> <li>All to CURPTA ALC UNIT A CAPPER DE L'INSUERING DE LA UNIT DES CAPPE DE LA DE LA UNIT DE LA UNIT</li></ul>	PENETRATIC CURRENT VE	ONS AND SHALL CO ERSION OF ASTM E	NFORM TC 1745, "STA	) CLASS A V ANDARD SP	APOR RE ECIFICAT	TARDER IN	I ACCORDANCE PLASTIC WATE	E WITH R VAPO	THE MOST DR	THAT IS PROPRI ASSOCIATES. AND I	ETARY TO WCD & S FURNISHED FOR THE
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SHEARWA	LL SCHEDU	LE						
	EATHING/NAILING	MUD	ANCHOR	VERT. MEMBER @ ADJ. PANEL	SOLE PLATE TO RIM	RIM TO SILL PLATE		00M 95677
3/8" APA	A RATED ONE FACE OMMONS @ 6" O.C.	SILL	BOLTS	EDGES		(A35 CLIPS)		ATES.C
260 PLF 0.C. FIE	12" O.C. FIELD. 8" ELD AT FIRE RATED	2x	<sup>5</sup> ⁄8" @ 48" O.C.	2x	SDWS22500DB @ 12" O.C.	@ 24" C.C.		ASSOC
	VALLS ONLY	5" ON SF	IEET SN1 FOF	ADDITIONAL INFO	RMATION.			916-251-9798   WWW.WCDASSOCIATES.COM 6930 DESTINY DRIVE SUITE #300, ROCKLIN, CA 95677
	N SCHEDUL							
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2,685 LBS		LDOWN	(MAY SUBST	TITUTE W/HDU2 AS	DESIRED)			16-251 DESTI
1. ALL HOLD		SHALL	BE RE-TIGHT	ENED JUST PRIOR TO		NOCT.		6 6
	CTOR SHALL PLACE A DETAIL 18/SD2 FOR					2031.		NTAINS INFORMATION
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# ROOF REAM SCHEDULE

• PSL 2900Fb, 290Fv, 2.2E • LVL 2600Fb, 285Fv, 1.8E • LSL 2300Fb, 285Fv, 1.55E • GLB 2400Fb, 265Fv, 1.9E

ROOF FRAMING NOTES

2. SEE "WOOD NOTES" ON SHEET SN1.

NO EDGE BLOCKING REQUIRED, U.N.O.

RUU	F DEAIVI	SCHEDULE		
NAME	PLY	SIZE	ТҮРЕ	LOCATION
RB1	1	6X6	DF-L#2	HEADER
RB2	1	6X8	DF-L#2	HEADER
RB3	1	6X6	DF-L#2	HEADER
RB4	1	6X10	PTDF-L#2	DROP
RB5	1	6X10	PTDF-L#2	DROP
BEA	MS SPECIFICA	TIONS:		

THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO WCD & ASSOCIATES. AND IS FURNISHED FOR THE PURPOSES OF REVIEW, BIDDING OR CONSTRUCTION OF THE PROJECT LISTED IN THE JOB TITLE BOX BELOW, AND SHALL NOT BE USED FOR ANY OTHER PURPOSE OR RELEASED TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF WCD. INFORMATION CONTAINED HEREIN IS AN INSTRUMENT OF PROFESSIONAL SERVICES AND SHALL REMAIN THE PROPERTY OF WCD. ALL RIGHTS RESERVED COPYRIGHT 2023.

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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" O.C. (ONE NOMINAL SIZE SMALLER THAN RIDGE BOARD)

1. SEE SHEET SD1 AND SD2 FOR ADDITIONAL FRAMING DETAILS.

- 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). 8. FOR BUILT-UP COLUMNS, PROVIDE (2) 10d NAILS @ 8" O.C. TO PROVIDE SOLID CONNECTION.
- 9. EXTERIOR STUD WALLS SHALL BE 2X6 DF-L#2 @16" O.C. U.N.O.. WALL SIZES SHALL BE VERIFIED TO MATCH THE ARCHITECTURAL PLAN SET. 10. BEAMS MAY BE SUBSTITUTED FOR LARGER WIDTHS AND/OR DEPTH OF EQUAL SPECIFICATIONS TO

3. ALL BEAM SUPPORTING POSTS ARE TO BE AT LEAST THE WIDTH OF THE BEAM BEING SUPPORTED.

6" EDGE & 6" INTERMEDIATE AT EAVE END & OVERHANGS.  $\frac{32}{16}$  SPAN RATING.

4. ROOF SHEATHING SHALL BE  $\frac{15}{32}$ " STRUCT GRADE I WITH 8D @ 6" OC EN & 6" OC FIELD NAILING, U.N.O.

- ACCOMMODATE WALL FRAMING. POSTS SHALL BE EQUAL OR LARGE SIZE THAN BEAM WIDTH. 11. 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. 12. ALL WOOD EXPOSED TO WATER FROM DIRECT OR BLOWING RAIN, SNOW, OR IRRIGATION TO BE
- PRESSURE TREATED. 13. MAX RAKE AT GABLE END OVERHANG TO BE HALF OF THE TRUSS SPACING.

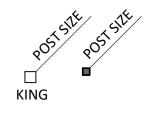
# ROOF LEGEND

BEAM PER BEAM SCHEDULE INTERIOR NON-BEARING WALL

2

1

\*NOTE: ALL EXTERIOR WALLS SHALL BE BEARING WALLS

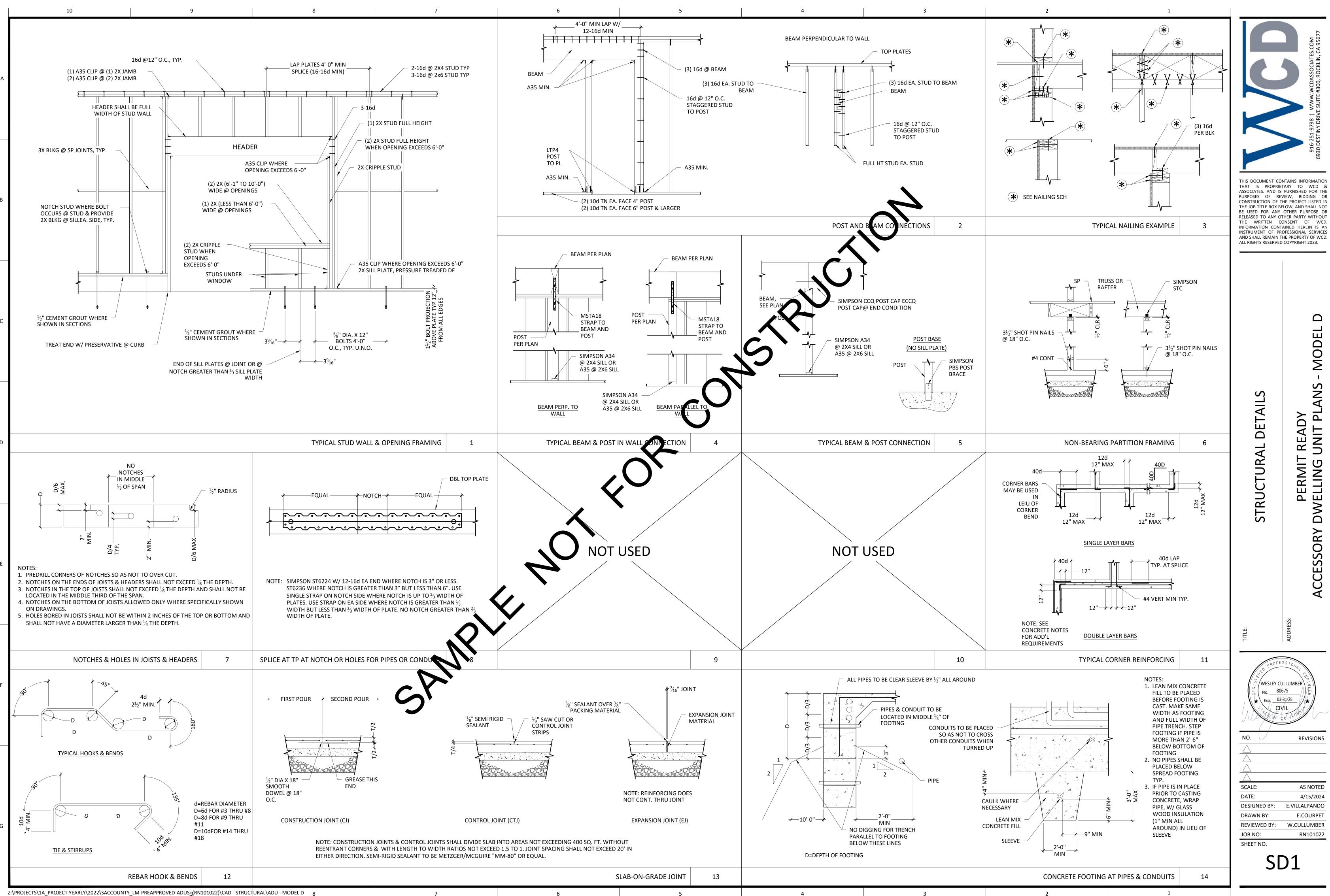


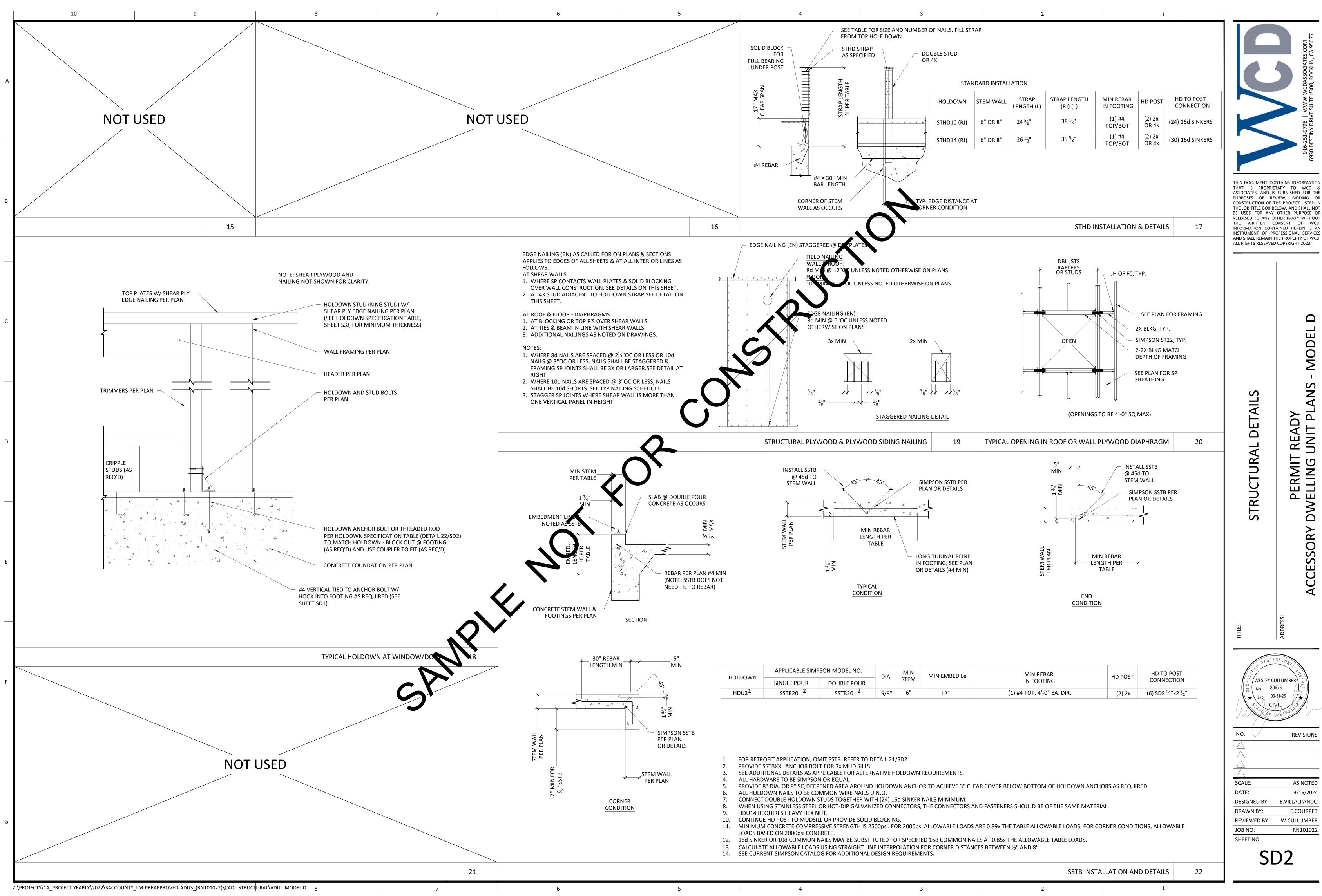
4

3

POST - SEE IN VIEW FOR POST SIZE AND TYPE.

S PLAN Ζ <  $\succ$ Δ READ' UNIT P MING <del>ک</del> ک 1 PERM DWELLIN FR ROOF ACCESSORY WESLEY CULLUMBER 80675 03-31/-25 NO. REVISIONS AS NOTED SCALE: DATE: 4/15/2024 E.VILLALPANDO DESIGNED BY: DRAWN BY: E.COURPET **REVIEWED BY:** W.CULLUMBER JOB NO: RN101022 SHEET NO. **S3.0** 





CCESSORY く <u>/WESLEY CULLUMBER</u>` 80675 No. Exp. 03-31-25 CIVIL NO. REVISIONS SCALE: AS NOTED DATE: 4/15/2024 E.VILLALPANDO DESIGNED BY: DRAWN BY: E.COURPET **REVIEWED BY:** W.CULLUMBER JOB NO: RN101022 SHEET NO. SD2

 $\Box$ 

MODEL

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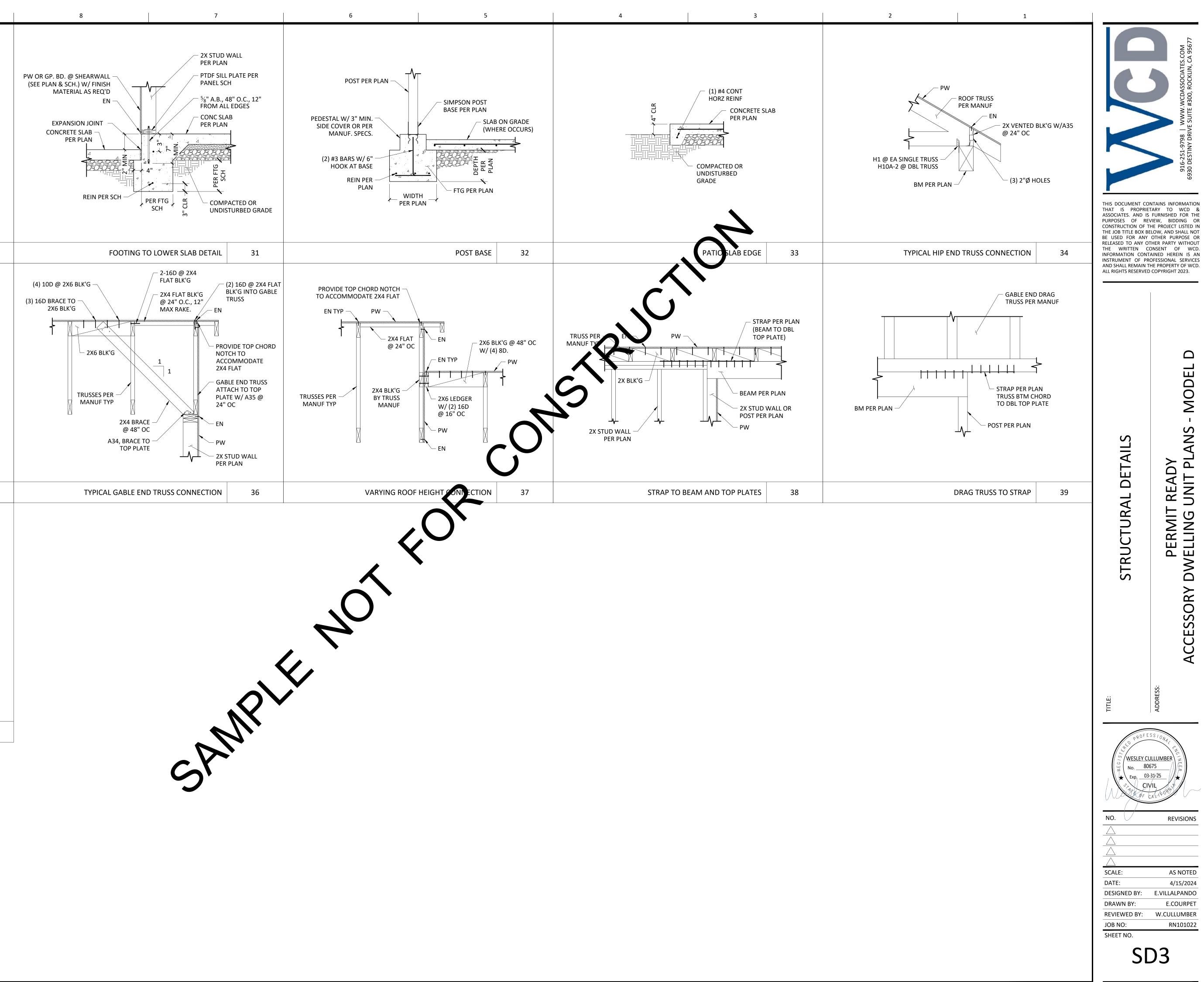
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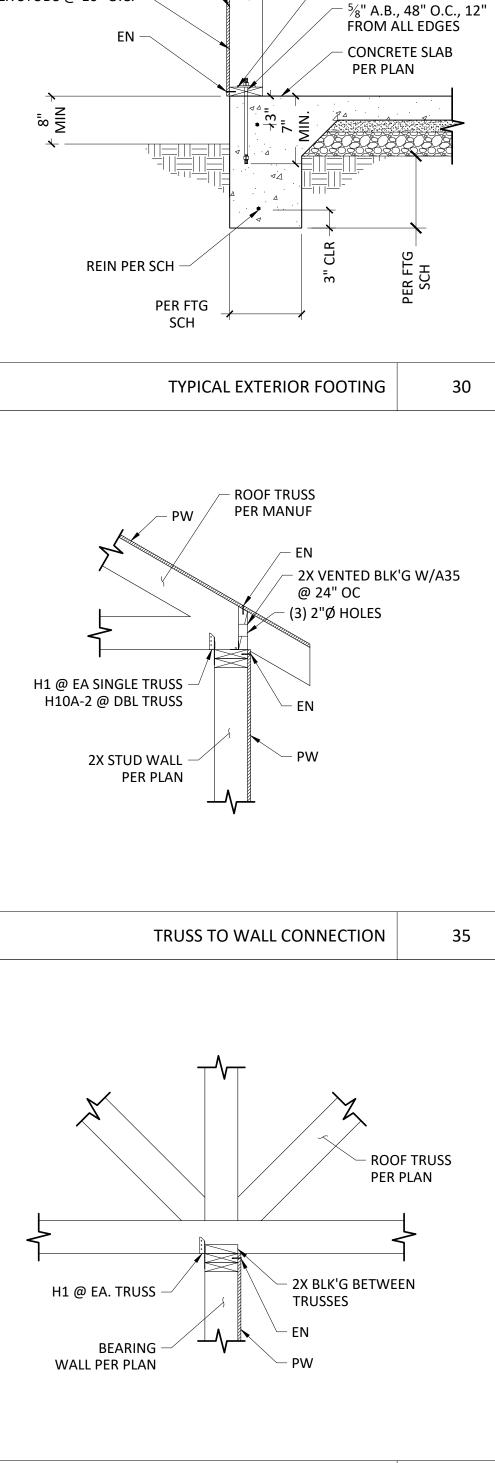
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10

PW OR GP. BD. @ SHEARWALL

(SEE PLAN & SCH.) W/ FINISH

2X STUDS @ 16" O.C. -

MATERIAL AS REQ'D

– PTDF SILL PLATE PER

PANEL SCH

╲╓┛╱┝╶╌╴

INTERIOR TRUSS OVER BEARING WALL 40

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name Model D ADU

Zip code 90000

Building Type Single family

Project Scope Newly Constructed

Fuel Type All electric

This building incorporates one or more Special Features shown below

Climate Zone 12

Addition Cond. Floor Area (ft<sup>2</sup>) <sup>0</sup>

Existing Cond. Floor Area (ft<sup>2</sup>) <sup>n/a</sup>

Total Cond. Floor Area (ft<sup>2</sup>) 1184

**Building Complies with Computer Performance** 

ADU Bedroom Count n/a

Run Title Title 24 Analysis

City Sacramento County

Project Location Sacramento Project

Project Name: Model D ADU

Calculation Description: Title 24 Analysis

GENERAL INFORMATION

01

02

03

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22

COMPLIANCE RESULTS

01

03

Calculation Date/Time: 2023-09-06T09:13:06-07:00 Input File Name: Model D ADU with Sacramento Project.ribd22x

Standards Version 2022

Front Orientation (deg/ Cardinal) All orientations

Number of Dwelling Units

Fenestration Average U-factor 0.3

ADU Conditioned Floor Area n/a

Occupancy U: No

Number of Bedrooms

Number of Stories

Glazing Percentage (%) 17.76%

Software Version EnergyPro 9.2

CF1R-PRF-01E (Page 1 of 12)

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Registration Nu	
	223-P016582812B-000-000-0000000-0000
CA Building End	ergy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Registration Date/Time: 2023-09-06 11:38:49 Report Version: 2022.0.000 Schema Version: rev 20220901

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and the second second

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.

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HERS Provider:

CalCERTS inc. Report Generated: 2023-09-06 09:13:58

CF1R-PRF-01E

roject Name: Model [			Calculation Date/Time	(Page 4 of 12)			
alculation Description	n: Title 24 Analysis		Input File Name: Model D ADU with Sacramento Project.ribd22x				
NERGY USE SUMMARY	Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)	
Space Heating	6.42	43.49	3.49	26.47	2.93	17.02	
Space Cooling	0.76	23.3	0.73	24.29	0.03	-0.99	
IAQ Ventilation	0.42	4.52	0.42	4.52	0	0	
Water Heating	2.52	26.08	1.75	20.14	0.77	5.94	
Self Utilization/Flexibility Credit	٨			0		0	
South Facing Efficiency Compliance Total	10.12	97.39	6.39	75.42	3.73	21.97	
Space Heating	6.42	43.49	3.42	25.96	3	17.53	
Space Cooling	0.76	H <sup>23.3</sup> R S	P R 0.75 V	24.97	0.01	-1.67	
IAQ Ventilation	0.42	4.52	0.42	4.52	0	0	
Water Heating	2.52	26.08	1.75	20.14	0.77	5.94	
Self Utilization/Flexibility Credit				0		0	
West Facing Efficiency Compliance Total	10.12	97.39	6.34	75.59	3.78	21.8	

**Registration Number:** 223-P016582812B-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-09-06 11:38:49 Report Version: 2022.0.000 Schema Version: rev 20220901



### CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model D ADU

Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-09-06T09:13:06-07:00 Input File Name: Model D ADU with Sacramento Project.ribd22x CF1R-PRF-01E (Page 2 of 12)

		Energy Design Ratings	Compliance Margins			
	Source Energy (EDR1)	Efficiency <sup>1</sup> EDR (EDR2efficiency)	Total <sup>2</sup> EDR (EDR2total)	Source Energy (EDR1)	Efficiency <sup>1</sup> EDR (EDR2efficiency)	Total <sup>2</sup> EDR (EDR2total)
Standard Design	36.1	36.3	33.5		•	
	•	Proposed	Design			
North Facing	28.5	29	28.7	7.6	7.3	4.8
East Facing	28.4	28.3	28.2	7.7	8	5.3
South Facing	28.3	28.1	28.1	7.8	8.2	5.4
West Facing	28.2	28.2	28.2	7.9	8.1	5.3

<sup>1</sup>Efficiency EDR includes improvements like a better building envelope and more efficient equipment <sup>2</sup>Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries <sup>3</sup>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: 2.47 kWdc Proposed PV Capacity Scaling: North (2.47 kWdc) East (2.47 kWdc) South (2.47 kWdc) West (2.47 kWdc)

Credit North Facing **Efficiency Compliance** Total Space Heating Space Coolin t Facing Efficiency **Compliance Total** 

Project Name: Model D ADU

ENERGY USE SUMMARY

Energy Use

Space Heating

Space Cooling

IAQ Ventilation

Water Heating

Self Utilization/Flexibility

Calculation Description: Title 24 Analysis

Registration Number: 223-P016582812B-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-09-06 11:38:49 Report Version: 2022.0.000 Schema Version: rev 20220901

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Time: 2023-09-06T09:13:06-07:00



Registration Number: 223-P016582812B-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model D ADU

Calculation Description: Title 24 Analysis del D ADU with Sacramento Project.ribd22x ENERGY USE INTENSITY Standard Design (kBtu/ft<sup>2</sup> - yr ) Proposed Design (kBtu/ft<sup>2</sup> - yr ) Compliance Margin (kBtu/ft<sup>2</sup> - yr ) Margin Percentage North Facing Gross EUI<sup>1</sup> 23.55 3.88 16.48 12.44 3.88 Net EUI<sup>2</sup> 31.19 East Facing 23.55 19.6 3.95 16.77 Gross EUI<sup>1</sup> 8.48 3.96 31.83 Net EUI<sup>2</sup> South Facing 3.98 16.9 19.57 Gross EUI<sup>1</sup> 3.98 8.46 Net EUI<sup>2</sup> 31.99 HERS PROVIDER West Facing 19.52 4.03 17.11 23.55 Gross EUI 8.4 4.04 12.44 32.48 not including PV) / Total Building Area. Use Total (including PV) / Total Building Area.

CF1R-PRF-01E (Page 5 of 12)

Project Name: Model D ADU Calculation Description: Title 24 Analysis

01	02
DC System Size (kWdc)	Exception
2.47	NA
EQUIRED SPECIAL I	FEATURES

### HERS FEATURE SUMMARY

	the features that must be field-ve ng tables below. Registered CF2Rs		in the second seco		gy performance for this comput	ter analysis. Additional
	rge ms (SC3.1.4.1.7) d heating capacity rat in zones greater than 150 ft2 ( cated entirely in conditioned space	SC3.4.5)	PROV	<b>), IIIC</b> / I D E R	•	
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft <sup>2</sup> )	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems

LIGTERIONE SOMMAN	A second s					
	the fea <mark>tures</mark> that must be fi <mark>eld-ve</mark> g tables belo <mark>w</mark> . Registered CF2Rs		to constant entries, entrement of		gy performance for this compu	ter analysis. Additional
Ductless indoor units loc	rge ns (SC3.1.4.1.7) d heating capacity at in zones greater than 150 ft2 ( rated entirely in conditioned space	SC3.4.5)	PROV	<b>), IIIC</b> /IDER	•	
UILDING - FEATURES INFORM	ATION					
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft <sup>2</sup> )	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems

Ductless indoor units located
Wall-mounted thermostat in
vernieu neue punip raceu ne

	ding tables bel <mark>ow.</mark> Registered CF2Rs	and of one net required t		ie negleti y	1	
Indoor air quality ven	tilation	1 dit				
Kitchen range hood			A Date of A. H. And	/	- @	
Verified Refrigerant C	harge	HFRS	PROV	/IDER		
Airflow in habitable r		II L II J	I II O I			
Verified heat pump ra	ted heating capacity					
Wall-mounted therm	ostat in zones greater than 150 ft2 (	SC3.4.5)				
Duchlage independents	and the second					
Ductiess indoor units	located entirely in conditioned spa-	ce (SC3.1.4.1.8)				
Ductiess indoor units	located entirely in conditioned spa	ce (SC3.1.4.1.8)				
		ce (SC3.1.4.1.8)				
LDING - FEATURES INFO		03	04	05	06	07
LDING - FEATURES INFO	RMATION	· · · · · · · · · · · · · · · · · · ·	04 Number of Bedrooms	05 Number of Zones	06 Number of Ventilation Cooling Systems	07 Number of Wate Heating Systems

Registration Number: 223-P016582812B-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-09-06 11:38:49 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2023-09-06 09:13:58

CA Building Energy Efficiency Standards - 2022 Residential Compliance

**Registration Number:** 

### CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Calculation Date/Time: 2023-09-06T09:13:06-07:00 Input File Name: Model D ADU with Sacramento Project.ribd22x CF1R-PRF-01E (Page 3 of 12)

Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft <sup>2</sup> -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
6.42	43.49	3.5	26.83	2.92	16.66
0.76	23.3	0.78	26.28	-0.02	-2.98
0.42	4.52	0.42	4.52	0	0
2.52	26.08	1.75	20.15	0.77	5.93
٨			0		0
10.12	97.39	<b>ED</b> <sup>-6.45</sup>	77.78	3.67	19.61
6.42	43.49	<b></b> 3.55 <b></b>	27.15	2.87	16.34
0.76	H 23.3 R S	PR <sub>0.7</sub> VII	DE P <sub>24.04</sub>	0.06	-0.74
0.42	4.52	0.42	4.52	0	0
2.52	26.08	1.75	20.16	0.77	5.92
			0		0
10.12	97.39	6.42	75.87	3.7	21.52

Registration Date/Time: 2023-09-06 11:38:49 Report Version: 2022.0.000 Schema Version: rev 20220901

HER	S Provider:	

CalCERTS inc. Report Generated: 2023-09-06 09:13:58

CF1R-PRF-01E

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Calculation Date/Time: 2023-09-06T09:13:06-07:00 (Page 6 of 12) Input File Name: Model D ADU with Sacramento Project.ribd22x

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

nust be installed as condition for meeting the modeled energy performance for this computer analysis. Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3) Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

223-P016582812B-000-000-0000000-0000

Registration Date/Time: 2023-09-06 11:38:49 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider:

Report Generated: 2023-09-06 09:13:58

CalCERTS inc.

<u>compucalc@title24energyreports.com</u> title24energyreports.com (530) 268-8722	
CompuCalc Title 24 Compliance Jeff Travis Certified Energy Analyst R19-22-30127	
2022 Title 24 Part 6 Energy Code	
Sheet: T24-1	

### CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

ject Name: Model D A culation Description:				Input File	Name: Model D AD	)9-06T09:13:06 I with Sacrame	nto Project ribd22	(Page 7 of 12)	Project Nam Calculation	Description: T	tle 24 Analysis				Input F	File Name: Mode	DADU with Sac	ramento Proje	ct.ribd22x	(Page 8 of 12)		Project Name: Model D	ADU			Calcula	ation Date/Tir	<b>ne:</b> 2023-09-06T	T09:13:06-07:00	) (Pag
n an an ann an an ann an an an an ann an a				mpactine				`	FENESTRATIO				- 44 ( ).		inpost i	The Humer mode		indification in operation	CUINDULLA			Calculation Description:	Title 24 Analysis			Input F	File Name: Mo	odel D ADU with	Sacramento Pro	oject.ribd22x
INFORMATION	02	03		04	05		06	07	01	02	03	04	05	06	07 08	09 10	11	12	13	14	201 201	OPAQUE SURFACE CONSTR	RUCTIONS							
Zone Name	Zone Type	HVAC System	Name ;	Zone Floor Area (ft <sup>2</sup> )	Avg. Ceiling He	ght Water	Heating System 1	Status	Name	Туре	Surface	Orientati	ation Azimuth	Width	Height Mult.	Area U-fac	tor U-factor	SHGC	SHGC Source	Exterior Shading		01	02	03		04	05	06	07	08
ADU	Conditioned	Res HVAC	C1	1184	8		DHW Sys 1	New	B1 D10	Windov	Back Wall	Back	k 180	(fft)	(ft) 1	(ft <sup>2</sup> ) 20 0.:	Source	0.23	NFRC	Bug Screen		Construction Name	Surface Type	Construction Type	Fi	Framing	Total Cavity R-value	Interior / Exterio Continuous	or U-factor	Assembly Layers
SURFACES		•			•	•			B2 WB	16-0303 (c)	Back Wall	Back		r	1	12 0.1		0.23	NFRC	Bug Screen	6			-				R-value		Inside Finish: Gypsum B
01	02	03		04	5	06	07	08	B3 WB		Back Wall	Back			- 1	12 0.	1775 1775 1775 1775 1775 1775 1775 1775	0.23	NFRC	Bug Screen		R-21 Wall	Exterior Walls	Wood Framed Wall	2x6 @	@ 16 in. O. C.	R-21	None / None	0.068	Cavity / Frame: R-21 / Exterior Finish: All Other
Name	Zone	Construction	A	Azimuth Orie	tation Gross	Area (ft <sup>2</sup> )	Window and Door Area (ft2)	Tilt (deg)	R1 WD	Windov	Right Wall	Right	11 112		1	20 0.		0.23	NFRC	Bug Screen	-			- <u>-</u> -						Roofing: Light Roof (Asphalt
Front Wall	ADU	R-21 Wall		0 F	ont	61	60	90	R2 WC	Windov		Right			1	7 0.	1	0.23	NFRC	Bug Screen		Attic RoofADU	Attic Roofs	Wood Framed Ceiling	2x4 @	@ 24 in. O. C.	R-0	None / 0	0.644	Roof Deck: Wood Siding/sheathing/deck
Back Wall	ADU	R-21 Wall				61	44	90	R3 WD	Windov	Right Wall	Right			1	20 0.	12000-00000000	0.23	NFRC	Bug Screen										Cavity / Frame: no insul.
Right Wall Left Wall	ADU	R-21 Wall R-21 Wall		1000	2014 07	69 69	74 32.25	90	R4 WC	Windov	Right Wall	Right	nt 270		1	7 0.	3 NFRC	0.23	NFRC	Bug Screen		R-38 Roof Attic	Ceilings (below	Wood Framed	2x4 @	@ 24 in. O. C.	R-38	None / None	0.025	Over Ceiling Joists: R-28.9 Cavity / Frame: R-9.1 /
Attic	ADU	R-38 Roof Attic	_			184	n/a	n/a	R5 WD	Windov	Right Wall	Right	nt 270	C	FR	20 0.	3 NFRC	0.23	NFRC	Bug Screen	2		attic)	Ceiling		CD1		Inc		Inside Finish: Gypsum B
		A L							L1 WA	Windov	Left Wall	Left	t 90	D C	1	20 0.	3 NFRC	0.23	NFRC	Bug Screen		BUILDING ENVELOP	SATION	1 6	alt	_EK	13,	INC		
01	02	03		04 Rise (x in 12) Roof Re	-	06	07 Dedicat Pauvion	08	L2 WE	Windov	Left Wall	Left	t 90	K >	1	12.25 0.1	3 NFRC	0.23	NFRC	Bug Screen	1	Quality sulation in calla		02 alue Spray Foam Insulatio	ERS			04 CFM5		05
Name Attic ADU	Construction Attic RoofADU	<b>Type</b> Ventilated	ROOT R			.85	Radiant Barrier	Cool Roof No				1	3		8. B.						6	Quality sulation in alla	ition (QII) High R-V	Not Required	tion Build	ilding Envelope Air Lo	Leakage	n/a	0	CFM50 n/a
RATION / GLAZING					N N		1988-003	state 201	SLAB FLOORS	,	02	0	03	04		05	06	0	07	08		local de la constante de la co		nornequieu		1.475		iiyu	-	
01 02	03	04 05	5 06	07 08	09 10	11	12 1	14	Nam		Zone	A	ea (ft <sup>2</sup> )	Perimeter (	ft) Edge	e Insul. R-value	Edge Insul. R-valu	ue Carnetec	d Fraction	Heated		WATER HEALING SYSTEMS								
ama Tuna	Surface	Orientation Azimu	uth Width	h Height Mult	Area U-factor	U-factor	SHGC SHGC S	ource Exterior Shading		~					"') a	and Depth	and Depth			neateu	C	01	02	03	04	05	06 Solar He		07 Compact	08 UEDS Varification Wate
lame Type	Surface	Orientation Azimu	(ft)	(ft) Wuit.	<del>n</del> ~)	Source			Slab-on-G	Grade	ADU	118	.184	157		none	0	80	0%	No		Name Sy	ystem Type Dist	ribution Type Water H	Heater Name	Number of Units	s Syste		stribution	IERS Verification Nat
F1 WA Windo		Front O		1	20 0.3		0.23 NFI														$\sim$	DHW Sys 1 Do	omestic Hot /ater (DHW)	Standard DHW	W Heater 1	1	n/a	a	None	n/a DHW He
2 D1 Windo 3 WD Windo	/ Front Wall	Front 0	6	1	20 0.3 20 0.3		0.23 NFI																							
															Schema Version:		6	5								Report Version: 2 Schema Version:				
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PER	FORMANCE COMPLIANCE METHOD
Project Name: Model D ADU	

Name       Type       Surface       Orientation       Azimuth       With       Wi	Inside Finish: Gypsum Bo Cavity / Frame: R-21 / 2 Exterior Finish: All Other S Roofing: Light Roof (Asphalt S Roof Deck: Wood Siding/sheathing/deckin Cavity / Frame: no insul. / Over Ceiling Joists: R-28.9	U-factor 0.068 0.644 0.025	y Interior / Exterior Continuous R-value None / None None / 0	Total Cavity R-value	25 XX	13	03		ODAOLIE SUPEACE CONST	. 1/	13	1 12	11	10	09	08	⊳   07	06	05	04	03	02	01
Num         Quad         Output         Outpu         Outpu         Outpu	Inside Finish: Gypsum Bo Cavity / Frame: R-21 / 2 Exterior Finish: All Other S Roofing: Light Roof (Asphalt S Roof Deck: Wood Siding/sheathing/deckin Cavity / Frame: no insul. / Over Ceiling Joists: R-28.9 Cavity / Frame: R-9.1 / 2 Inside Finish: Gypsum Bo	U-factor 0.068 0.644 0.025	Y Continuous R-value None / None None / O	R-value	Framing		05	02		1997.00		1992/993	U-factor		Area		lth Height	Widt					The Mark Contractor Science 1
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R4WC       Right Wall       Right       27       0       1       7       0.3       NFRC       0.23       NFRC       Bug Screen         SVD       Window       Left Wall       Right Wall       Right Wall       Right       270       0       0       0       0.3       NFRC       0.23       NFRC       Bug Screen         L2 W       Window       Left Wall       Left       30       0       1.3       2.0       0.3       NFRC       0.23       NFRC       Bug Screen         NB mode       Left Wall       Left       30       0       1.3       1.25       0.3       NFRC       0.23       NFRC       Bug Screen         NB mode       Left Wall       Left       30       0       1.3       1.5       0.3       NFRC       0.23       NFRC       Bug Screen         NB mode       Left Wall       Left Wall       Left Wall       State	Over Ceiling Joists: R-28.9 Cavity / Frame: R-9.1 / 2 Inside Finish: Gypsum Bo		None / None		4 @ 24 in. O. C.	1 / / / /	SAC: 04 99 99 91 91 90 99	Attic Roofs	Attic RoofADU	Bug Screen	NFRC	0.23	NFRC	0.3	7	1			270	Right	Right Wall	Window	R2 WC
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Name       Zone       Area(ft <sup>2</sup> )       Perimeter (ft)       Edge insul. R-value and Depth       Carpeted Fraction       Heated         Slab-on-Grade       ADU       1184       157       none       0       80%       No          Mame       System Type       Distribution Type       Water Heater Name       Number of Units       Solar Heating       Compact Distribution         Blab-on-Grade       ADU       1184       157       none       0       No       No       Name       System Type       Distribution Type       Water Heater Name       Number of Units       Solar Heating System       Distribution         DHW Sys 1       Domestic Hot Water (DHW)       Standard       DHW Heater 1       1       n/a       None	n/a	£	n/a		N/A	red	Not Required		Not Required			1					04		- 1	02			1212
Slab-on-Grade     ADU     1184     157     none     0     80%     No       Under State     Distribution Type     Under State     Under State     Distribution Type       Under State     Distribution Type     Under State     Distribution Type       Under State     Distribution Type     Under State     Distribution Type       Under State     Distribution Type     Under State     Distribution Type       DHW Sys 1     Domestic Hot Water (DHW)     DHW Heater 1     1     n/a     None									WATER HE ING SYSTEMS					Je Edge	1010000	Edge						_	25-044-5
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	n/a DHW He	None	ı/a N	n/a	1	DHW Heater 1	Standard																
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CalCERTS inc.

Registration Number: 223-P016582812B-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

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Sheet: T24-2

title24energyreports (530) 268-8722 CompuCalc 9 24 Part Energy Code 2 Title 202

#### 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.

used. Review the respective section for more information.



i.	Nonenclosed kitchens shall have a demand-controlled mechanical exhaust system meeting the		(04/2022) Building Envelope:	
ii.	requirements of Section 150.0(o)1Giii. Enclosed kitchens and all bathrooms shall have either one of the following alternatives a or b:	§ 110.6(a)1:	Air Leakage. Manufactured fenestra less when tested per NFRC-400, AS	
11.	a. A demand-controlled mechanical exhaust system meeting the requirements of Section	§ 110.6(a)5:	Labeling. Fenestration products and	
	<ul> <li>b. A continuous mechanical exhaust system meeting the requirements of Section</li> </ul>	§ 110.6(b):	Field fabricated exterior doors and Tables 110.6-A, 110.6-B, or JA4.5 fo	
iii.	150.0(o)1Giv. Demand-controlled mechanical exhaust. A local mechanical exhaust system shall be designed to	§ 110.7;	Air Leakage. All joints, penetrations caulked, gasketed, or weather stripp	
	be operated as needed. a. Control and operation. Demand-controlled mechanical exhaust systems shall be provided	§ 110.8(a):	Insulation Certification by Manufa Goods and Services (BHGS).	
	<ul><li>with at least one of the following controls:</li><li>A readily accessible occupant-controlled ON-OFF control.</li></ul>	§ 110.8(g):	Insulation Requirements for Heate	
	<ol> <li>An automatic control that does not impede occupant ON control.</li> <li>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</li> </ol>	§ 110.8(i) :	Roofing Products Solar Reflectan roofing material must meet the requi on the CF1R.	
		§ 110.8(j):	Radiant Barrier. When required, rad Affairs.	
iv.	<ul> <li>by the Energy Commission.</li> <li>Continuous mechanical exhaust. A mechanical exhaust system shall be installed to operate continuously. The system may be part of a balanced mechanical ventilation system.</li> <li>a. 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.</li> </ul>	§ 150.0(a):	Roof Deck, Ceiling and Rafter Roo average U-factor not exceeding U-0.1 U-factor must not exceed 0.043. Raf doors must have permanently attach prevent air leakage. Insulation must as specified in § 110.7, including but	
	b. Ventilation rate. The minimum delivered ventilation shall be at least the amount indicated in Table	§ 150.0(b):	Loose-fill Insulation. Loose fill insu	
v.	150.0-F during each hour of operation. Airflow measurement of local mechanical exhaust by the system installer. The airflow required	§ 150.0(c)	Wall Insulation. Minimum R-13 insuframing or have a U-factor of 0.071 (	
۷.	by Section 150.0(o)1G is the quantity of indoor air exhausted by the ventilation system as	8 150 0(d)	Masonry walls must meet Tables 15	
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installed in the dwelling unit. When a vented range hood utilizes a capture efficiency rating to demonstrate compliance with Section 150.0(o)1Giiib, 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 a.

- airflow measuring device at the mechanical ventilation fan's 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)1G 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)1Giiib, 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

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 <sup>2</sup> )	Hood Over Electric Range	Hood Over Natural Gas Range
>1500	50% CE or 110 CFM	70% CE or 180 CFM
>1000 to 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)(t)(u)(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 wide and 7 feet tall suitable for the future installation of a heat pump water heater (HPWH) by meeting either 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 A.

- 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 ii. Both ends of the unused conductor shall be labeled with the word "spare" and be
- electrically isolated; and A reserved single pole circuit breaker space in the electrical panel adjacent to the iii. 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 iv.
- installed water heater, and allows natural draining without pump assistance.

If the designated space is more than 3 feet from the water heater, then this space shall B. 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
- ii. 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 iii. 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 iv. 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 V.
- 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 vi.
- water heater, and allows natural draining without pump assistance.

(s) 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
  - A dedicated raceway from the main service to a panelboard (subpanel) that B. 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 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 2. 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.

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 AAMA/WDMA/CSA 101/I.S.2/A440-2011.*		
§ 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 JA4.5 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 (BHGS).		
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).		
§ 110.8(i):	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(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.		
§110.8(j):	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):	<b>Roof Deck, Ceiling and Rafter Roof Insulation.</b> Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic 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 of 0.071 or less. Opaque 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(g).		
§ 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(d).		
§ 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(q):	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.*		
replaces, Decor	ative Gas Appliances, and Gas Log:		
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.		
§ 150.0(e)1:	Closable 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:	<b>Combustion Intake.</b> 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 tight-fitting 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. $^{st}$		
oace Conditioni	ng, Water Heating, and Plumbing System:		
§ 110.0-§ 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.**		
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.*		
§ 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(c)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(c)6:	<b>Isolation Valves.</b> Instantaneous water heaters with an input rating greater than 6.8 kBtu 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

(t)	Heat pump space heater ready. Systems usir dwelling units shall include the following:			
	l.	A dedicated 240 volt branch the furnace and accessible to circuit conductors shall be r identified as "240V ready." with the California Electrica		
	2.	The main electrical service installation of a double pole installation. The reserved sp		
(u)		op ready. Systems using gas or		
	shall include th	ne following:		
	1.	A dedicated 240 volt branch		
		the cooktop and accessible to		
		conductors shall be rated at :		
		"240V ready." All electrical		
		California Electrical Code.		
	2.	The main electrical service p		
		installation of a double pole		
		reserved space shall be perm		
(v)	Electric clothe	es dryer ready. Clothes dryer lo		
	individual dwelling units shall include the follo			
	1.	A dedicated 240 volt branch		
		the clothes dryer location an		
		obstructions. The branch circ		
		The blank cover shall be i		
		shall be installed in accorda		
	2.	The main electrical . where		
		installation of a double, ple		

The reserv

NOTE: PV Solar is designed to have a minimum of 2.47 kW 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

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach

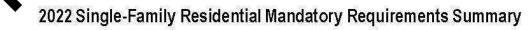
sing gas or propane furnace to serve individual

- hch circuit wiring shall be installed within 3 feet from e to the furnace with no obstructions. The branch rated at 30 amps minimum. The blank cover shall be " All electrical components shall be installed in accordance ical Code. panel shall have a reserved space to allow for the le circuit breaker for a future heat pump space heater
- space shall be permanently marked as "For Futur, 2 r propane cooktop to serve individual dwelling ch circuit wiring shall be installed within 3 f
- to the cooktop with no obstruction t 50 amps minimum. The blank cover l components shall be installed in accorda e with the panel shall have a rese ed space to allow for the
- uture fectric cooktop installation. The circuit breaker for nanently marked e 240V use. ocations with gas or mbing to serve
- within 3 feet from es dryer location with no s shall be rated at 30 amps minimum. 240V ready." All electrical components
- California Electrical Code. all have a reserved space to allow for the it breaker for a future electric clothes dryer installation.
- 'ed span shall experimenently marked as "For Future 240V use



## 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 an	
	spa heaters.*	
§ 150.0(h)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 J using design conditions specified in § 150.0(h)2.	
§ 150.0(h)3A:	Clearances. 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(h)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()) 1:	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(j)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-crushable 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' × 2.5' × 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this 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:	<b>Solar Water-heating Systems.</b> Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.	
ucts and Fans:		
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Cost (CMC). The contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets the requirement.	
§ 150.0(m) 1:	<b>CMC Compliance</b> . All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/STACNA-0064.06 FWAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plerums must be usulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and disposition sting (R12.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically in tened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirementation are reasonable of the table of the combination of mastic and either mesh or tape must be used to seal openings greater than 4 <sup>th</sup> , in pastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than staled sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contact ducts; ducts installed in these spaces must not be compressed. *	
§ 150.0(m)2:	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply we applicable equirements for duct construction, connections, and closures; joints and seams of duct systems and their component must not be scaled with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.	
§ 150.0(m)3:	Field-Fabricated Duct Systems. Field-fabricated duct systems must could with approable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.	
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the condit ined specified outdoors must have backdraft or automatic dampers.	
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating system service unditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outrite, except symbustion inlet and outlet air openings and elevator shaft vents.	
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected on damage we tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor srvice (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or gainted with a water retardant and solar radiation-resistant coating.	
§ 150.0(m) 10:	Porous Inner Core Flex Duct. Porous in er cores of ex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.	
§ 150.0(m) 11:	Duct System Sealing and Leakage est. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be see of an above reakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference key and the day, addx RA3.1.	
§ 150.0(m) 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. Faters to 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 the eling must meet the requirements in §150.0(m) 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 and prevents air from bypassing the filter. *	



150.0 (n <del>y</del> nGi	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. $^{\star}$
§ 150.0(k) 1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k) 11:	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 or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems.*
§ 150.0(k)2A:	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)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(k).
§ 150.0(k)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)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(k)2A.
§ 150.0(k)2E:	Automatic Shutoff Controls. In bathrooms, 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(k)2F:	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily 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(k)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(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or 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 applicable requirements may be used to meet these requirements.
§ 150.0(k)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(k)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with th applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
olar 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)-(e).
§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 80 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 are 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 steep-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(c):	Interconnection Pathways. The construction documents must indicate: 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. Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be presided to the segment.
<ul> <li>Instanting and the</li> <li>Instanting and the</li> </ul>	provided to the occupant. Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps. Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double poly
§ 110.10(e)2:	circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."



# 2022 Single-Family Residential Mandatory Requirements Summary

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 § 150.0(m) 13: 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 ≤ 0.58 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.\*

§ 150.0(o)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(o) 1.*		
§ 150.0(o) 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(o) 1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed andcontrolled per §150.0(o) 1Biil&iv. 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(o) 1C.		
§ 150.0(o)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(o)1Ci-iii.		
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand- controlled exhaust system meeting requirements of §150.0(o)1Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi.*		
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o) 1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles 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(o) 1C.		
§ 150.0(o)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 HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o) 1G		
ool and Spa Sys	stems 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 MAEDbS; 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 card with operating 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 at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections 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(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.		
ighting:			
	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable		
§ 110.9:	requirements of § 110.9.*		
§ 150.0(k) 1A.	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closets with an efficacy of at least 45 lumens per watt.		
150.0(k)1B:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*		
§ 150.0(k) 1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.		
§ 150.0(k) 1D:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.		
§ 150.0(k) 1E:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.		
§ 150.0(k) 1F:	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust		

5/6/22

2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(s)	Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, <u>or</u> a dedicated raceway from the main service to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have their source collocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the main panelboard, with raceways installed between the panelboard and the switch location to allow the connection of backup power source.
§ 150.0(t)	Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(u)	Electric Cooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(v)	Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

\*Exceptions may apply

This compliance report shows use of a Variable Capacity Heat
Pump. Please note requirements below:
HERS VERIFICATIONS:
Cooling System Verifications:
•Airflow in habitable rooms (SC3.1.4.1.7)
•Refrigerant Charge
•Fan Efficacy/CFM
Heating System Verifications:
•Verified heat pump rated heating capacity per AHRI Certifi-
cate at 47 Degrees & 17 degrees
•Ductless indoor units located entirely in conditioned space
•Field verification according to the procedure in SC3.4.5 shall
confirm that VCHP space conditioning zones in the dwelling
that are greater than 150 ft2, are controlled by a permanently
installed wall-mounted thermostat

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2022 Title 24 Part 6	
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