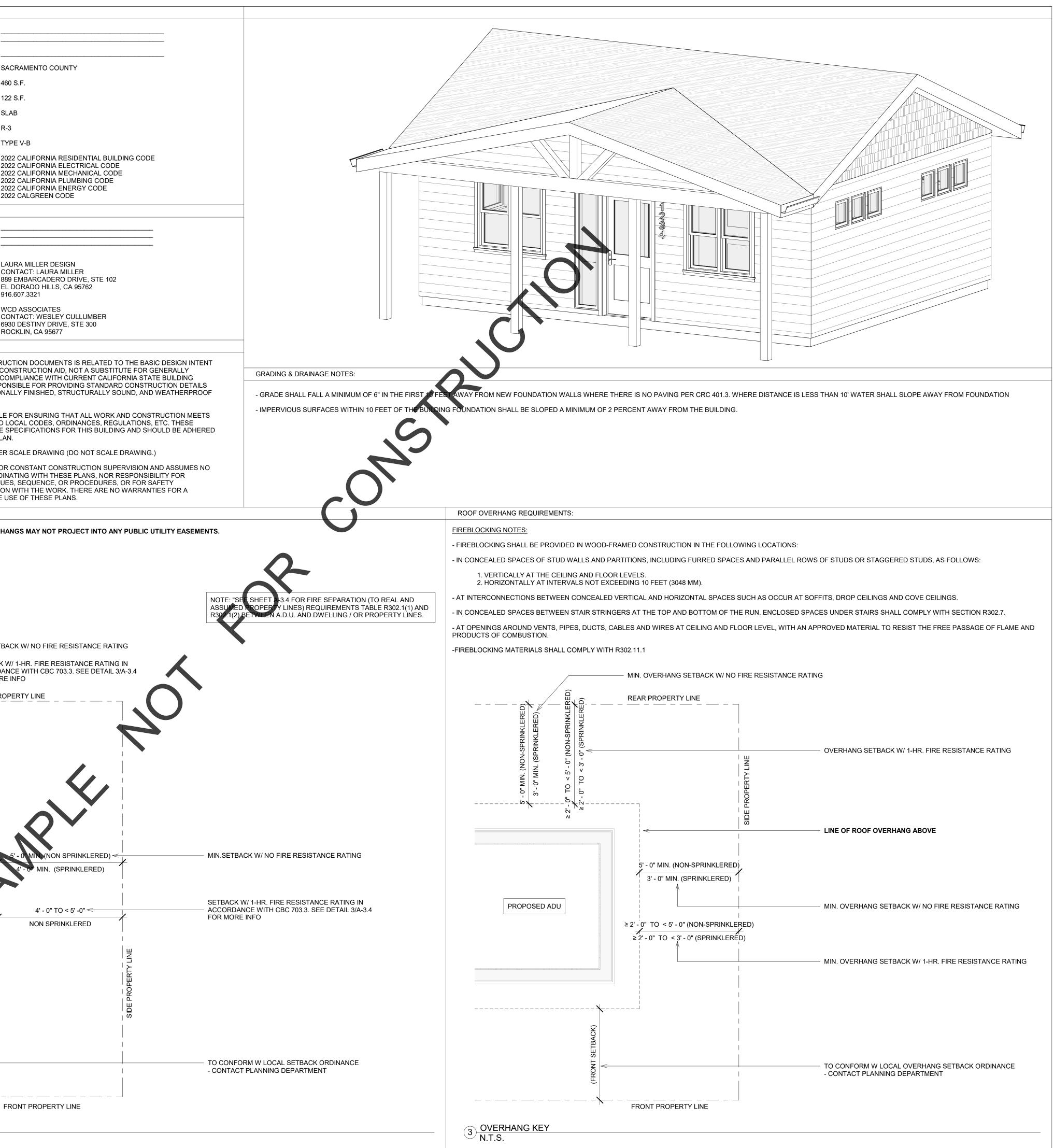
A NEW ACCESSORY	DWELLING UNIT PROJECT FOR:	PROJECT DATA:	
	SACRAMENTO COUNTY	CUSTOMER ADDRESS:	
		APN:	
PERMIT	READY ADU (ACCESSORY DWELLING	JURISDICTION:	SA
	UNIT) PLAN	S.F. OF PROPOSED ADU:	46
	MODEL A2 WILLOW	COVERED PORCH:	12
		FOUNDATION:	SI
SCOPE OF WORK:		OCCUPANCY:	R
CONSTRUCT NEW 4	160 S.F. ACCESSORY DWELLING UNIT.	CONSTRUCTION:	T
	LLS W/ STUCCO OR FIBER CEMENT LAP SIDING EXTERIOR FINISH	CODES:	20 20
VINYL WINDOWS	ID TRUSS ROOF WITH COMPOSITE SHINGLES		20 20
JTILITY NOTES:	WATER HEATER		20 20
NO GAS TO BE INS		PROJECT CONTACTS:	
PROPOSED ADU T	O TIE INTO (E) MAIN WATER LINE O TIE INTO (E) S.F.R. SEWER SERVICE. NOTE: SEWER TIE-IN MUST BE OUTSIDE OF ADU	OWNER/CONTRACTOR: ADDRESS AND CONTACT	
	/ICE TO TIE INTO (E) S.F.R. OR CUSTOMER TO COORDINATE W/ UTILITY COMPANY TO OBTAIN RVICE AND METER	INFORMATION	
PROJECT SPECIFIC		ARCHITECT:	LA
MODIFICATIONS T	O THIS PLAN SET ARE NOT ALLOWED; THESE PLANS MAY BE USED ONLY FOR CONSTRUCTION		C(88 EL
-	IE UNINCORPORATED COUNTY OF SACRAMENTO AND ONLY IF THE PROPERTY OWNER HARMLESS AGREEMENT TO THE SATISFACTION OF THE COUNTY OF SACRAMENTO.		91
		STRUCTURAL ENGINEER:	W C
			69 R(
EFERRED SUBMIT	TALS:	GENERAL NOTES:	
FIRE SPRINKLERS	(AS NEEDED)	- THE INFORMATION ON THIS SET OF CONST OF THE PROJECT. THEY ARE INTENDED AS A	
		ACCEPTED GOOD BUILDING PRACTICES AND CODES. THE GENERAL CONTRACTOR IS RES	CC PO
		AND PROCEDURES TO ENSURE A PROFESSI COMPLETED PROJECT.	
		- THE GENERAL CONTRACTOR IS RESPONSIE ALL CURRENT FEDERAL, STATE, COUNTY, AN	
		CODES ARE TO BE CONSIDERED PART OF THE TO EVEN IF THEY ARE IN VARIANCE OF THE F	IE S
		- DIMENSIONS SHALL TAKE PRECEDENCE OV	
		-THE ARCHITECT HAS NOT BEEN ENGAGED F	
ITE PLAN REQUIRE		RESPONSIBILITY FOR CONSTRUCTION COOR CONSTRUCTION MEANS, METHODS, TECHNIC PRECAUTIONS AND PROGRAMS IN CONNECT	QUE
		SPECIFIC USE EXPRESSED OR IMPLIED IN TH	
TRUCTURES, SIZE	S REQUIRED TO PROVIDE A SITE PLAN (INCLUDING ALL EXISTING AND PROPOSED S, LOCATIONS, USES, PLANNING DEPT SETBACKS AND ANY PUBLIC UTILITY ATIONS, MAIN DWELLING ELECTRICAL PANEL LOCATION FOR A.D.U. SUB-PANEL	SETBACK REQUIREMENTS:	
SITUATIONS, SEWE	R LINE SIZE AND LOCATION ON SITE WITH CONNECTION LOCATION OF PRIMARY MAIN, WATER SUPPLY LINE SIZE, LOCATION AND CONNECTION) AND INCORPORATE IT	NOTE: ADU FOOTPRINT AND ALL ROOF OVE	۲HA
	T PRIOR TO SUBMITTING PLANS		
SEE ELEVATION SH ADDRESS PER 2022	EETS FOR ADDITIONAL INFORMATION/REQUIREMENTS TO PROVIDE DWELLING CRC R3119		
IRE SPRINKLER RE	EQUIREMENTS:		
'ER R313.2 AN AUT	OMATIC RESIDENTIAL FIRE SPRINKLER SYSTEM SHALL NOT BE REQUIRED IN		
	LING UNITS, PROVIDED ALL OF THE FOLLOWING ARE MET:		
THE UNIT MEETS T CODE SECTION 658	THE DEFINITION OF AN ACCESSORY DWELLING UNIT AS DEFINED IN THE GOVERNMENT 52.2.	MIN. SE	тви
THE EXISTING PRI	MARY RESIDENCE DOES NOT HAVE AUTOMATIC FIRE SPRINKLERS.	SETBAC	
	DETACHED DWELLING UNIT DOES NOT EXCEED 1,200 SQUARE FEET IN SIZE.	ACCOR FOR MC	DAN
THE UNIT IS ON TH	IE SAME LOT AS THE PRIMARY RESIDENCE.		RO
INAL DETERMINAT	ION OF FIRE SPRINKLER REQUIREMENT WILL BE MADE BY LOCAL FIRE JURISDICTION		_
EE ALSO FIRE	SPRINKLER INFORMATION BLOCK NOTE @ RIGHT OF THIS SHEET.	SED) ↓ SED	
		NKLER LERED	
HEET INDEX:		ON-SPF (SPRIN 70 < PRINKL	
Sheet Number	Sheet Name	MIN. (NON-SPRINKLERED) 0" MIN. (SPRINKLERED) ≥ 4' - 0" TO < 5' -0" <	
		0. MIN NC	
-0.0 -0.1	TITLE SHEET CALGREEN CHECKLIST		
-0.2	CALGREEN CHECKLIST (CONT)		
-1.0	FLOOR PLAN		
-1.1 -2.0	POWER PLAN ROOF PLAN AND ELEVATIONS		
-3.0	STUCCO SECTION DETAILS		
-3.1	STUCCO PLAN DETAILS		
-3.2 -3.3	LAP SIDING SECTION DETAILS LAP SIDING PLAN DETAILS	PROPOSED ADU	
-3.4	FIRE DETAILS		
1.0 1	MODEL A - FOUNDATION, SHEARWALL, AND ROOF FRAMING PLANS MODEL A - STRUCTURAL DETAILS		
D1 D2	MODEL A - STRUCTURAL DETAILS MODEL A - STRUCTURAL DETAILS		
N1	STRUCTURAL NOTES AND SPECIFICATIONS		
24-1 24-2	ENERGY CODE ENERGY CODE		
24-2 24-3	SINGLE FAMILY MANDATORY REQUIREMENTS		
24-4	PV & ESS READY NOTES	SETBACK)	
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2 SETBACK KEY N.T.S.





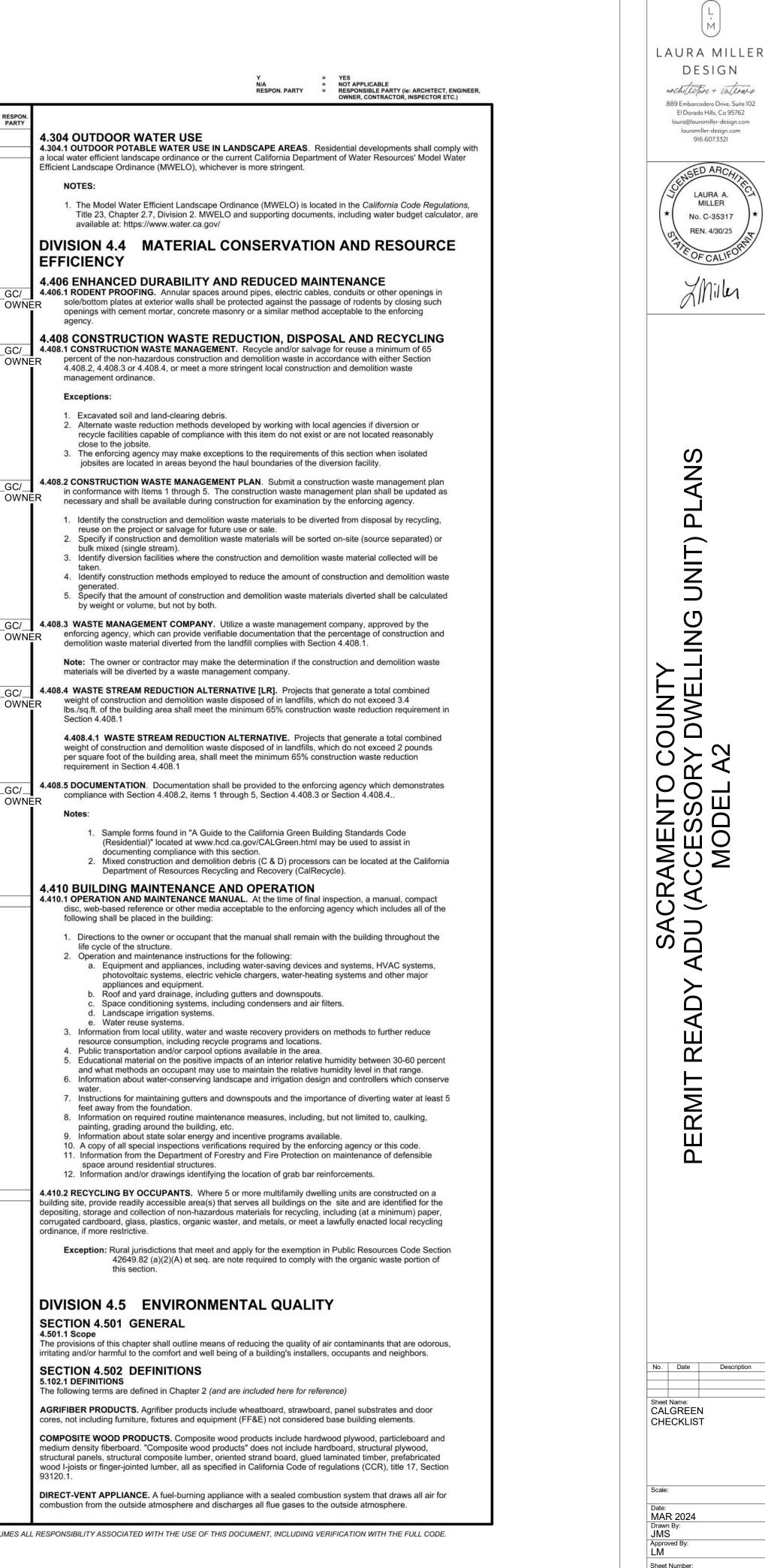
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California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE **RESIDENTIAL MANDATORY MEASURES, SHEET 1** (January 2023)

Y N/A RESPON. PARTY	CHAPTER 3	Y		RESPON. PARTY	
	GREEN BUILDING SECTION 301 GENERAL		X		4.106.4.2 New multifamily When parking is provided, requirements of Sections 4 whole number. A parking s
	301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.	_			space shall count as at lea applicable minimum parkin for further details. 4.106.4.2.1Multifamily det
	301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.		X		than 20 sleeping units or The number of dwelling uni 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
	Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section.				The service panel or for future EV chargin
	Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate				Exceptions:
	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.				1.When EV charg of EV capable sp 2.When EV charg
	301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.				spaces, the nu EV chargers in Notes: a.Construction do future EV chargin
	SECTION 302 MIXED OCCUPANCY BUILDINGS 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building				b.There is no req EV chargers are i
	shall comply with the specific green building measures applicable to each specific occupancy. Exceptions: 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall				2.EV Ready. Twenty Level 2 EV charging dwelling unit when m
	comply with Chapter 4 and Appendix A4, as applicable. 2. [HCD] For purposes of <i>CAL</i> Green, live/work units, complying with Section 419 of the <i>California</i> <i>Building Code</i> , shall not be considered mixed occupancies. Live/Work units shall comply with				Exception: Areas of
	Chapter 4 and Appendix A4, as applicable. DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS:		X		4.106.4.2.2 Multifamily de sleeping units or guest ro The number of dwelling uni this section.
	ADDREVIATION DEFINITIONS: 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				1.EV Capable . Ten (of parking facilities, s EVSE. Electrical load system, including an EVs at all required E
	LR Low Rise HR High Rise AA Additions and Alterations N New				The service panel or for future EV chargin
	CHAPTER 4 RESIDENTIAL MANDATORY MEASURES				Exception: When parking spaces re reduced by a nun
					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
	FRENCH DRAIN. 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 2.EV Ready. Twenty
	WATTLES. 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
	 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. 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, management of storm water drainage and erosion controls shall comply with this section. 				3.EV Chargers. Five Where common use area and shall be av
TX GC/ OWNE	4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less				When low power Lev an automatic load m capacity to each spa shall have sufficient served by the ALMS have a capacity of no
	 Retention basins of sufficient size shall be utilized to retain storm water on the site. 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. 				capacity to the require 4.106.4.2.2.1 Electric vehicle charging
	 Compliance with a lawfully enacted storm water management ordinance. Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. 				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/ OWN	4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:				1.The charging spa the California Build
	 Swales Water collection and disposal systems French drains 				2.The charging spa Chapter 2, to the b
	 French drains Water retention gardens Other water measures which keep surface water away from buildings and aid in groundwater recharge 				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
	4.106.4 Electric vehicle (EV) charging for new construction . New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply environment (EV/SE) when the installation and use of EV chargers. Active 6.25				1.The minimum length
	equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i> , Article 625. Exceptions: 1. On a case, by case basis, where the local enforcing agency has determined EV charging and				2. The minimum width 3. One in every 25 cha
	 On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions: 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate 				aisle. A 5-foot (1524 n 12 feet (3659 mm).
	 power. 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities. 				a.Surface slope for the percent slope) in any of 4.106.4.2.2.1.3 Access In addition to the require comply with the accessi
	4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each				spaces and EVCS in mi 1109A.
	dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.				4.106.4.2.3 EV space re 1.Single EV space requi circuit. The raceway sha originate at the main set proximity to the location raceway termination poi have a 40-ampere minir
	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) re Exception: A raceway installed in close proxi
	4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination				construction in accord 2.Multiple EV spaces re
	location shall be permanently and visibly marked as "EV CAPABLE".				location of installed or fu information on amperag

		I (January 2023)				
	Y N/A RESPON PARTY	Exception: A raceway is not required if a minimum installed in close proximity to the location or the pr construction in accordance with the California Elec	oposed location of the EV space at the time of		Y N/	I/A RES PA
y dwellings, hotels and motels and new residential parking facilities. parking spaces for new multifamily dwellings, hotels and motels shall meet the 1.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest		4.106.4.2.4 Identification. The service panel or subpanel circuit directory shall iden	tify the overcurrent protective device space(s) r	eserved for		X
space served by electric vehicle supply equipment or designed as a future EV charging ist one standard automobile parking space only for the purpose of complying with any ing space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2		future EV charging purposes as "EV CAPABLE" in accor 4.106.4.2.5 Electric Vehicle Ready Space Signage . Electric vehicle ready spaces shall be identified by signat	dance with the California Electrical Code.			
velopment projects with less than 20 dwelling units; and hotels and motels with less guest rooms. hits, sleeping units or guest rooms shall be based on all buildings on a project site subject to		Traffic Operations Policy Directive 13-01 (Zero Emission successor(s). 4.106.4.3 Electric vehicle charging for additions and alter	Vehicle Signs and Pavement Markings) or its			
(10) percent of the total number of parking spaces on a building site, provided for all types		multifamily buildings. When new parking facilities are added, or electrical syste altered and the work requires a building permit, ten (10)				
shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 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.		altered shall be electric vehicle charging spaces (EV spa Notes:		Ξ.	X□	G
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.		1.Construction documents are intended to demonstrate EV charging.		ting future		0\
gers (Level 2 EVSE) are installed in a number equal to or greater than the required number		2. There is no requirement for EV spaces to be construct DIVISION 4.2 ENERGY EFFICIE 4.201 GENERAL			X □	G G G
paces. gers (Level 2 EVSE) are installed in a number less than the required number of EV capable		4.201.1 SCOPE. For the purposes of mandatory energy ef Commission will continue to adopt mandatory standard	ficiency standards in this code, the California E s.	nergy		
umber of EV capable spaces required may be reduced by a number equal to the number of nstalled.		DIVISION 4.3 WATER EFFICIEN	CY AND CONSERVATION			
ocuments are intended to demonstrate the project's capability and capacity for facilitating	X 🗆 GC/	4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AN urinals) and fittings (faucets and showerheads) shall of	ND FITTINGS. Plumbing fixtures (water closets	and		
ng. uirement for EV spaces to be constructed or available until receptacles for EV charging or	OWN	and 4.303.4.4.				
installed for use. y-five (25) percent of the total number of parking spaces shall be equipped with low power		Note: All noncompliant plumbing fixtures in any reside plumbing fixtures. Plumbing fixture replacement completion, certificate of occupancy, or final per	t is required prior to issuance of a certificate of rmit approval by the local building department.	final See Civil	X	□ _G(O\
receptacles. For multifamily parking facilities, no more than one receptacle is required per nore than one parking space is provided for use by a single dwelling unit.		Code Section 1101.1, et seq., for the definition buildings affected and other important enactment	nt dates.			
parking facilities served by parking lifts.		4.303.1.1 Water Closets. The effective flush volume flush. Tank-type water closets shall be certified to the Specification for Tank-type Toilets.	e of an water closets shall not exceed 1.28 gallo performance criteria of the U.S. EPA WaterSe	ons per ense		
evelopment projects with 20 or more dwelling units, hotels and motels with 20 or more ooms. hits, sleeping units or guest rooms shall be based on all buildings on a project site subject to		Note : The effective flush volume of dual flush of two reduced flushes and one full flush.	toilets is defined as the composite, average flus	sh volume		
(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		4.303.1.2 Urinals. The effective rush volume of wal The effective flush volume of all other urinals shall no		s per flush.		
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.		4.303.1.3 Showerheads.			X	□G(G(
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.		4.303.1.3.1 Single Showerhead. Showerhead gallons per minute at 80 psi. Showerheads sha WaterSense Specification for Showerheads.				
EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of equired by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be		4.303.1.3.2 Multiple showerheads serving of showerhead, the combined flow rate of all the s		olled by	X□	G G
mber equal to the number of EV chargers installed over the five (5) percent required.		allow one shower outlet to be in operation at a Note : A hand-held shower shall be const	time.	ed to only		
ocuments shall show locations of future EV spaces.		4.303.1.4 Faucets.				
uirement for EV spaces to be constructed or available until receptacles for EV charging or installed for use.		4.303.1.4.1 Residential Lavatory Faucets. The not exceed 1.2 gallons per minute at 60 psi. The not be less than 0.8 gallons per minute at 20 psi.	ne minimum flow rate of residential lavatory fau		X ⊑	G
y-five (25) percent of the total number of parking spaces shall be equipped with low power receptacles. For multifamily parking facilities, no more than one receptacle is required per nore than one parking space is provided for use by a single dwelling unit.		4.303.1.4.2 Lavatory Faucets in Common and faucets installed in common and public use are	nd Public Use Areas. The maximum flow rate			0\
s of parking facilities served by parking lifts.		buildings shall not exceed 0.5 gallons per minu 4.303.1.4.3 Metering Faucets. Metering fauc	te at 60 psi.			
e (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE a parking is provided, at least one EV charger shall be located in the common use parking vailable for use by all residents or guests.		4.303.1.4.4 Kitchen Faucets. The maximum				
vel 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, nanagement system (ALMS) may be used to reduce the maximum required electrical		per minute at 60 psi. Kitchen faucets may temp to exceed 2.2 gallons per minute at 60 psi, and minute at 60 psi.	porarily increase the flow above the maximum r	ate, but not	X ⊑	_
ace served by the ALMS. The electrical system and any on-site distribution transformers capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) B. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall ot less than 30 amperes. ALMS shall not be used to reduce the minimum required electrical		Note : Where complying faucets are unavailable reduction.	e, aerators or other means may be used to ach	lieve		
ired EV capable spaces.		4.303.1.4.5 Pre-rinse spray valves. When installed, shall meet the requirements in	the California Code of Regulations, Title 20 (Ap	opliance		
stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.		Efficiency Regulations), Sections 1605.1 (h)(4) (d)(7) and shall be equipped with an integral au	Table H-2, Section 1605.3 (h)(4)(A), and Section			
hicle charging stations serving public accommodations public housing, motels and hotels to comply with this section. See California Building Code, Chapter 11B, for applicable		FOR REFERENCE ONLY: The following table <i>Code of Regulations</i> , Title 20 (Appliance Efficien 1605.3 (h)(4)(A).				
on. In at least one of the following options:		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.		STANDARDS FOR COMMERCIA				
ace shall be located on an accessible route, as defined in the California Building Code, building.		VALUES MANUFACTURED ON (
e vehicle charging stations designed and constructed in compliance with the California apter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section em 3.		[spray force in ounce force (ozf)] Product Class 1 (≤ 5.0 ozf)	MAXIMUM FLOW RATE (gpm)			
c vehicle charging stations (EVCS) dimensions. shall be designed to comply with the following:		Product Class 2 (> 5.0 ozf and \leq 8.0 ozf)	1.00			
n of each EX space shall be 18 feet (5486 mm).		Product Class 3 (> 8.0 ozf)	1.28	1		<1
of each EV space shall be 9 feet (2743 mm).		Title 20 Section 1605.3 (h)(4)(A): Commercial p 1, 2006, shall have a minimum spray force of n	ot less than 4.0 ounces-force (ozf)[113 grams-f	orce(gf)]		
into) wide minimum aisle shall be permitted provided the minimum width of the EV space is		4.303.2 Submeters for multifamily buildings and dwellin buildings. Submeters shall be installed to measure water usage	2			
space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 direction.	X 🗆 GC/	California Plumbing Code. 4.303.3 Standards for plumbing fixtures and fittings. Plu	umbing fixtures and fittings shall be installed in			
sible EV spaces. 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	OWN	ERaccordance with the <i>California Plumbing Code</i> , and shall me 1701.1 of the <i>California Plumbing Code</i> .	eet the applicable standards referenced in Table	e		
ultifamily developments shall comply with California Building Code, Chapter 11A, Section		NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4 CONVENIENCE FOR THE USER.	.303.1, AND IS INCLUDED AS A			
requirements. ired. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch		TABLE - MAXIMUM FIXTURE WATER				
all not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall ervice or subpanel and shall terminate into a listed cabinet, box or enclosure in close or the proposed location of the EV space. Construction documents shall identify the intermediate or charger location as applicable. The sequence and/ or subpanel shall		FIXTURE TYPE SHOWER HEADS (RESIDENTIAL)	FLOW RATE 1.8 GMP @ 80 PSI			
int, receptacle or charger location, as applicable. The service panel and/ or subpanel shall mum dedicated branch circuit, including branch circuit overcurrent protective device served to permit installation of a branch circuit overcurrent protective device.		LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @	@ 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		LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	PSI 0.5 GPM @ 60 PSI			
ance with the California Electrical Code.		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 WATER CLOSET	0.2 GAL/CYCLE 1.28 GAL/FLUSH			
omponents that are planned to be installed underground, enclosed, inaccessible or in paces shall be installed at the time of original construction.		URINALS	0.125 GAL/FLUSH			
CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIS	ST IS TO BE USE	ED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY TH	HE END USER TO MEET THOSE INDIVIDUAL NEEDS	S. THE END USE	RAS	SUME



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Y N/A RESPON PARTY

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

Y N/A RESPON. PARTY

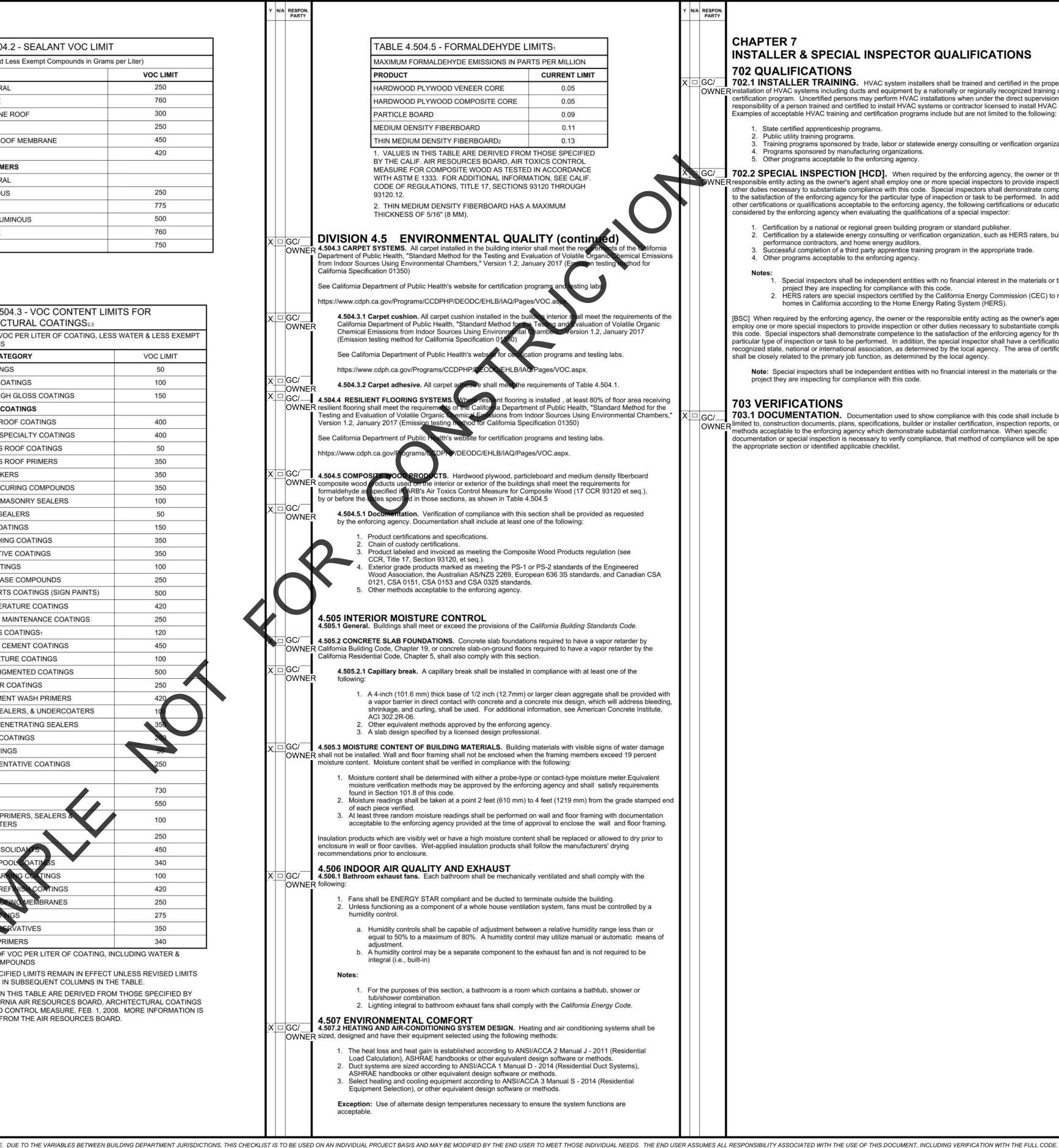
						ABLE 4.504.2 - SEALANT VO	CLIMIT	
	MAXIMUM compound	INCREMENTAL REACTIVITY (MIR). The maximum chan to the "Base Reactive Organic Gas (ROG) Mixture" per w	nge in weight of ozone formed by eight of compound added, expres	adding a ssed to		ess Water and Less Exempt Compounds		per
	hundredths	of a gram (g O ³ /g ROC). ralues for individual compounds and hydrocarbon solvent			· .	EALANTS		
	and 94701.			energializzation and the state		RCHITECTURAL		
	MOISTURE	CONTENT. The weight of the water in wood expressed	in percentage of the weight of the	e oven-dry wood.	MA	ARINE DECK		
		WEIGHTED MIR (PWMIR). The sum of all weighted-MIR			NC	DNMEMBRANE ROOF		
	product (ex	PWMIR is the total product reactivity expressed to hundric cluding container and packaging).	a	per gram of	RC	DADWAY		
	Note: PWM	IR is calculated according to equations found in CCR, Titl			SI	NGLE-PLY ROOF MEMBRANE		
		ORGANIC COMPOUND (ROC). Any compound that has ation in the troposphere.	s the potential, once emitted, to co	ontribute to	то	THER		
			vical compound here days to	chains or risgs	SE	EALANT PRIMERS		
	with vapor	atile organic compound (VOC) broadly defined as a chemperssures greater than 0.1 millimeters of mercury at room	temperature. These compounds	typically contain	AF	RCHITECTURAL		
		nd may contain oxygen, nitrogen and other elements. See	e CCR Title 17, Section 94508(a).			NON-POROUS		
<	4.503 FI 4.503.1 GE	REPLACES NERAL. Any installed gas fireplace shall be a direct-ven	t sealed-combustion type. Any ins	stalled		POROUS		
	woodstove	or pellet stove shall comply with U.S. EPA New Source P and shall have a permanent label indicating they are certi	erformance Standards (NSPS) er	mission limits as	мс	DDIFIED BITUMINOUS		
	pellet stove	s and fireplaces shall also comply with applicable local or	dinances.			ARINE DECK		
GC/	4.504 PC	DLLUTANT CONTROL VERING OF DUCT OPENINGS & PROTECTION OF ME			го	THER		_
	startup of th openings sl reduce the 1.504.2 FIN R 4.504 R requi	CTION. At the time of rough installation, during storage of the heating, cooling and ventilating equipment, all duct and hall be covered with tape, plastic, sheet metal or other me amount of water, dust or debris which may enter the syster IISH MATERIAL POLLUTANT CONTROL . Finish mater I.2.1 Adhesives, Sealants and Caulks . Adhesives, sea rements of the following standards unless more stringent agement district rules apply:	d other related air distribution com ethods acceptable to the enforcing em. ials shall comply with this section lant and caulks used on the proje	agency to 		TABLE 4.504.3 - VOC CONTE ARCHITECTURAL COATING GRAMS OF VOC PER LITER OF COAT COMPOUNDS	S _{2,3}	
		1. Adhesives, adhesive bonding primers, adhesive prin shall comply with local or regional air pollution contr			_ I ⊢			_
	1	applicable or SCAQMD Rule 1168 VOC limits, as sh Such products also shall comply with the Rule 1168	nown in Table 4.504.1 or 4.504.2,	as applicable.	- I -	FLAT COATINGS		
	1	compounds (chloroform, ethylene dichloride, methyl	ene chloride, perchloroethylene a			NON-FLAT COATINGS		
	1	tricloroethylene), except for aerosol products, as spe				NONFLAT-HIGH GLOSS COATINGS		
	1	Aerosol adhesives, and smaller unit sizes of adhesiv units of product, less packaging, which do not weight	more than 1 pound and do not c	consist of more		SPECIALTY COATINGS		
	1	than 16 fluid ounces) shall comply with statewide VC prohibitions on use of certain toxic compounds, of C	DC standards and other requirem California Code of Regulations, Tit	ents, including tle 17,		ALUMINUM ROOF COATINGS		
]	commencing with section 94507.				BASEMENT SPECIALTY COATINGS		
GC/		I.2.2 Paints and Coatings. Architectural paints and coat RB Architectural Suggested Control Measure, as shown	tings shall comply with VOC limits in Table 4.504.3, unless more stri	s in Table 1 of ingent local limits	1	BITUMINOUS ROOF COATINGS		
	apply	 The VOC content limit for coatings that do not meet the in Table 4.504.3 shall be determined by classifying the c 	e definitions for the specialty coati	ings categories		BITUMINOUS ROOF PRIMERS		_
	coati	ng, based on its gloss, as defined in subsections 4.21, 4.3	36, and 4.37 of the 2007 California	a Air Resources		BOND BREAKERS		
		d, Suggested Control Measure, and the corresponding Fla e 4.504.3 shall apply.	at, Nonflat or Nonflat-High Gloss			CONCRETE CURING COMPOUNDS		
GC/	4.504	1.2.3 Aerosol Paints and Coatings. Aerosol paints and	coatings shall meet the Product-v	weighted MIR	-	CONCRETE/MASONRY SEALERS		
OWN	ER Limit comp	s for ROC in Section 94522(a)(2) and other requirements oounds and ozone depleting substances, in Sections 9452	, including prohibitions on use of o 22(e)(1) and (f)(1) of <i>California Co</i>	certain toxic ode of		DRIVEWAY SEALERS		
	Regu	lations, Title 17, commencing with Section 94520; and in ty Management District additionally comply with the perce	areas under the jurisdiction of the	e Bay Area Air		DRY FOG COATINGS FAUX FINISHING COATINGS		
		le 49.				FAUX FINISHING COATINGS		
		1.2.4 Verification. Verification of compliance with this se	ction shall be provided at the requ	uest of the		FLOOR COATINGS		
OWN	=ĸ enfor	cing agency. Documentation may include, but is not limit	ed to, the following:			FORM-RELEASE COMPOUNDS		
	1	1. Manufacturer's product specification.			- I - I'			
	1	 Field Verification of on-site product containers 				GRAPHIC ARTS COATINGS 750 20 DAT		
		2. Field verification of on-site product containers.				GRAPHIC ARTS COATINGS (SIGN PAI	N13)	-
				- I	1	HIGH TEMPERATURE COATINGS		
		TABLE 4.504.1 - ADHESIVE VOC LIM				HIGH TEMPERATURE COATINGS		
		TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram	ns per Liter)			HIGH TEMPERATURE COATINGS		
		TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS	ns per Liter) VOC LIMIT			HIGH TEMPERATURE COATINGS		
		TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES	ns per Liter) VOC LIMIT 50			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS		
		TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES	Noc LIMIT 50 50			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS		
		TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES	ns per Liter) VOC LIMIT 50 50 150		1	HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS		
		TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES	ns per Liter) VOC LIMIT 50 50 150 100		1	HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESRUBBER FLOOR ADHESIVES	ns per Liter) VOC LIMIT 50 50 150 100 60		 	HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM (Less Water and Less Exempt Compounds in Gram ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES	ns per Liter) VOC LIMIT 50 50 150 100 60 50		 	HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESRUBBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVES	ns per Liter) VOC LIMIT 50 50 150 100 60 50 65		 	HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESRUBBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESVCT & ASPHALT TILE ADHESIVES	ns per Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESSUBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESVCT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVES	ns per Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50 50 50			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESRUBBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESVCT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVESCOVE BASE ADHESIVES	ns per Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50 50 50 50			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESSUBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESCERAMIC TILE ADHESIVESDRYWALL & PANEL ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVE	ns per Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50 50 50 50 70		 	HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESRUBBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESVCT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVESTRUCTURAL GLAZING ADHESIVES	ns per Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50 50 50 50 50 50 100			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS &	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESSUBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESCERAMIC TILE ADHESIVESOVT & ASPHALT TILE ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVESTRUCTURAL GLAZING ADHESIVESSINGLE-PLY ROOF MEMBRANE ADHESIVES	ns per Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50 50 50 50 70 100 250			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESSUBBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESCOVE BASE ADHESIVESOVT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVESTRUCTURAL GLAZING ADHESIVESSINGLE-PLY ROOF MEMBRANE ADHESIVESOTHER ADHESIVES NOT LISTED	ns per Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50 50 50 50 50 50 100			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESWOOD FLOORING ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESCERAMIC TILE ADHESIVESCOVE BASE ADHESIVESOVE BASE ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVESTRUCTURAL GLAZING ADHESIVESSINGLE-PLY ROOF MEMBRANE ADHESIVESOTHER ADHESIVES NOT LISTEDSPECIALTY APPLICATIONS	ns per Liter) VOC LIMIT 50 50 150 100 60 50 65 50 50 50 50 70 100 250 50			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESWOOD FLOORING ADHESIVESSUBER FLOOR ADHESIVESCERAMIC TILE ADHESIVESCERAMIC TILE ADHESIVESOVT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVESDRYWALL & PANEL ADHESIVESSINGLE-PLY ROOF MEMBRANE ADHESIVESSINGLE-PLY ROOF MEMBRANE ADHESIVESOTHER ADHESIVES NOT LISTEDSPECIALTY APPLICATIONSPVC WELDING	ns per Liter) VOC LIMIT 50 50 150 60 50 65 50 50 50 50 50 50			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESWOOD FLOORING ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESCERAMIC TILE ADHESIVESCOVE BASE ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVESTRUCTURAL GLAZING ADHESIVESSINGLE-PLY ROOF MEMBRANE ADHESIVESOTHER ADHESIVES NOT LISTEDSPECIALTY APPLICATIONSPVC WELDINGCPVC WELDINGCPVC WELDING	VOC LIMIT 50 50 100 60 50 60 50 50 100 60 510 490			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESWOOD FLOORING ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESVCT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVESTRUCTURAL GLAZING ADHESIVESOTHER ADHESIVES NOT LISTEDSPECIALTY APPLICATIONSPVC WELDINGCPVC WELDINGABS WELDING	VOC LIMIT 50 50 150 100 60 50 50 50 100 60 510 490 325			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB & TILE REFINISH COATINGS	35	
		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESRUBBER FLOOR ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESVCT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVESTRUCTURAL GLAZING ADHESIVESSINGLE-PLY ROOF MEMBRANE ADHESIVESOTHER ADHESIVES NOT LISTEDSPECIALTY APPLICATIONSPVC WELDINGCPVC WELDINGABS WELDINGPLASTIC CEMENT WELDING	VOC LIMIT 50 50 150 100 60 50 50 50 100 60 510 490 325 250			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STONE CONSOLIDANTS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES	35	
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		TABLE 4.504.1 - ADHESIVE VOC LIM(Less Water and Less Exempt Compounds in GramARCHITECTURAL APPLICATIONSINDOOR CARPET ADHESIVESCARPET PAD ADHESIVESOUTDOOR CARPET ADHESIVESWOOD FLOORING ADHESIVESWOOD FLOORING ADHESIVESSUBFLOOR ADHESIVESCERAMIC TILE ADHESIVESVCT & ASPHALT TILE ADHESIVESDRYWALL & PANEL ADHESIVESCOVE BASE ADHESIVESMULTIPURPOSE CONSTRUCTION ADHESIVESTRUCTURAL GLAZING ADHESIVESOTHER ADHESIVES NOT LISTEDSPECIALTY APPLICATIONSPVC WELDINGCPVC WELDINGABS WELDINGPLASTIC CEMENT WELDINGADHESIVE PRIMER FOR PLASTICCONTACT ADHESIVE	VOC LIMIT 50 50 50 100 60 50 60 510 490 325 250 550 80			HIGH TEMPERATURE COATINGS INDUSTRIAL MAINTENANCE COATING LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS, & UNDERCOATE REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS & UNDERCOATERS STAINS STONE CONSOLIDANTS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB & TILE REFINISH COATINGS WATERPROOFING MEMBRANES WOOD COATINGS WOOD PRESERVATIVES	35	
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504.2 - SEALANT VOC LIN	ЛІТ	
and Less Exempt Compounds in Gr	ams 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 COATINGS _{2,3} VOC PER LITER OF COATING, LESS V	VATER & LESS EXEMPT
DS ATEGORY	VOC LIMIT
INGS	50
COATINGS	100
IGH GLOSS COATINGS	150
COATINGS	
ROOF COATINGS	400
SPECIALTY COATINGS	400
S ROOF COATINGS	50
S ROOF PRIMERS	350
AKERS	350
CURING COMPOUNDS	350
/MASONRY SEALERS	100
SEALERS	50
OATINGS	150
HING COATINGS	350
TIVE COATINGS	350
ATINGS	100
EASE COMPOUNDS	250
RTS COATINGS (SIGN PAINTS)	500
ERATURE COATINGS	420
MAINTENANCE COATINGS	250
S COATINGS1	120
CEMENT COATINGS	450
TURE COATINGS	100
PIGMENTED COATINGS	500
OR COATINGS	250
MENT WASH PRIMERS	420
EALERS, & UNDERCOATERS	100
PENETRATING SEALERS	350
COATINGS	250
rings	50
ENTATIVE COATINGS	250
	730
	550
PRIMERS, SEALERS &	100
	250
ISOLIDANTS	450
POOLCOATINGS	340
ARKING COATINGS	100
REFINISH COATINGS	420
OFING MEMBRANES	250
NINGS	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



=	YES
=	NOT APPLICABLE
=	RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 7

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS **702 QUALIFICATIONS**

GC/ 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper OWNER installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

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

- 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.
- 4. 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).

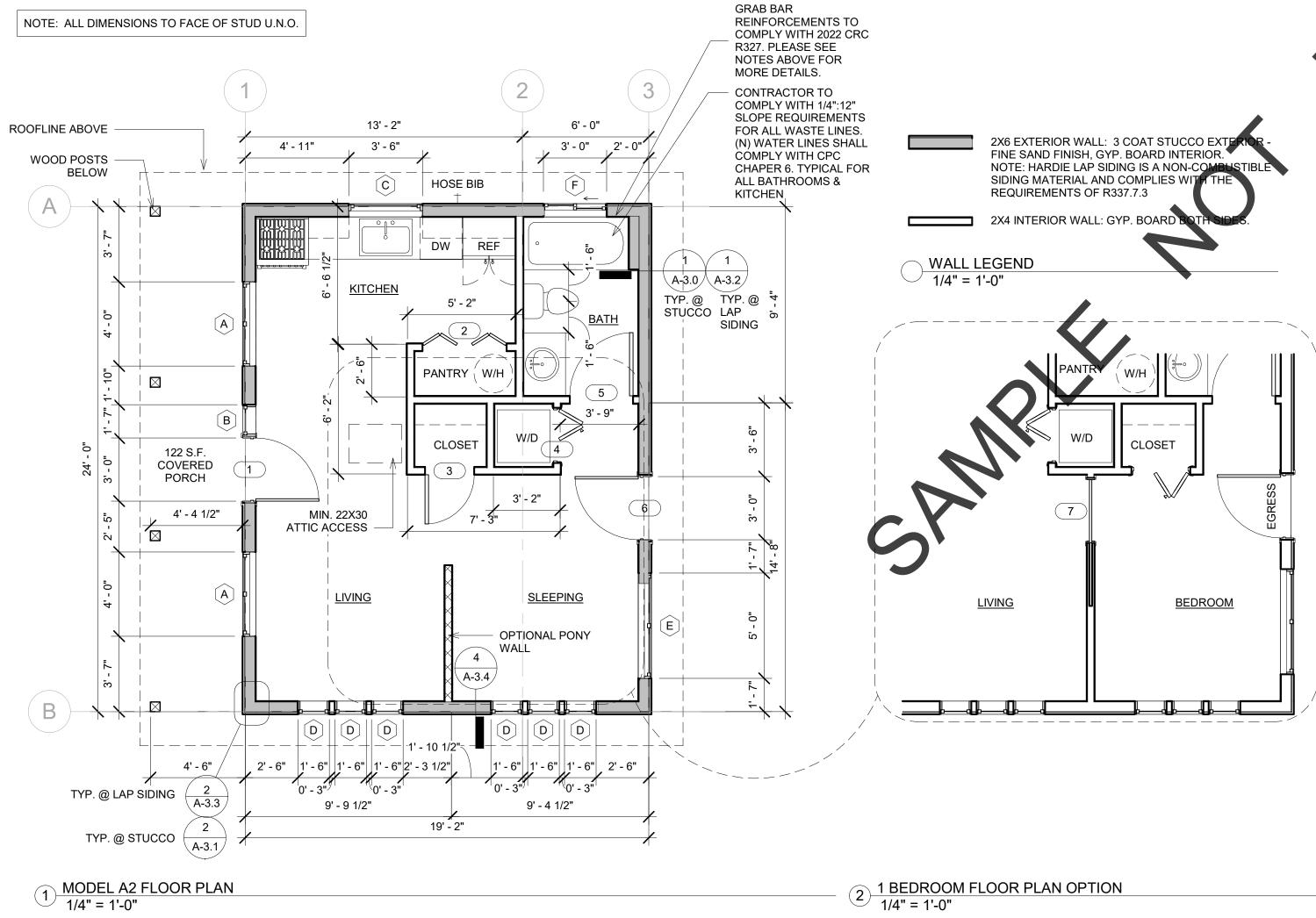
[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction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







- WASHER/DRYER CLOSET DOOR NOTE: A MINIMUM OF ONE SQUARE INCH OF OPENING SHALL BE PROVIDED PER 1,00 MINIMUM OF ONE 100 S.I. OPENING WITHIN 12 INCHES OF THE FLOOR AND WITHIN 12 INCHES FROM THE TOP OF THE D

OPTIONAL BEDROOM POCKET

EXTERIOR DOOR NOTES:

3' - 0"

6' - 8"

- ENTRY/EXIT DOOR MUST OPEN OVER A LANDING NOT MORE THAN 1.5" BELOW THE THRESHOLD (CRC311.3.1)

- THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SERVED.

- EVERY LANDING SHALL HAVE A MIN. DIMENSION OF 36 INCHES MEASURED IN THE DIRECTION OF TRAVEL (CRC311.3) WINDOW NOTES:

- ALL WINDOWS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS, INCLUDING FLASHING

- WINDOWS IN BEDROOMS SHALL MEET ALL OF THE FOLLOWING EMERGENCY ESCAPE AND RESCUE REQUIREMENTS (CRC310.1): MIN 5.7 S.F. OF OPENABLE AREA (5.0 S.F. FOR GRADE LEVEL BEDROOMS) MIN 20" CLEAR WIDTH AND 24" CLEAR HEIGHT WHEN OPEN

MAX SILL HEIGHT OF 44" FROM FINISHED FLOOR TO BOTTOM OF THE CLEAR OPENING

BATH & KITCHEN NOTES:

- PROVIDE AN APPROVED DISHWASHER AIR GAP FITTING AS PER CPC 807.4

- MAX FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MIN AT 60 PSI (CAL GREEN 4.303.1.4.4)
- WHERE A FIXTURE COMES IN CONTACT WITH THE WALL OR FLOOR, THE JOINT BETWEEN THE FIXTURE AND THE WALL OR FLOOR SHALL BE MADE WATER TIGHT AS PER CPC 402.2
- FIXTURES SHALL BE SPACED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

- NO WATER CLOSET OR BIDET SHALL BE SET CLOSER THAN 15 INCHES FROM ITS CENTER TO A SIDE WALL OR OBSTRUCTION NOR CLOSER THAN 30 INCHES CENTER TO A SIMILAR FIXTURE. THE CLEAR SPACE IN FRONT OF A WATER CLOSET, LAVATORY, OR BIDET SHALL BE NOT LESS THAN 24 INCHES.

- BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FURNISHED WITH A NONABSORBENT SURFACE. SUCH SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FT ABOVE THE FLOOR (CRC 307.2).

WATER HEATER NOTES:

- MANUFACTURE'S INSTALLATION INSTRUCTIONS FOR THE WATER HEATER AND ALL OTHER LISTED APPLIANCES SHALL BE AVAILABLE TO THE FIELD INSPECTOR AT THE TIME OF INSPECTIONS PER 2022 CRC SEC. R106. - PER CF1R: NEEA RATED WATER HEATER HEAT PUMP MODEL, RHEEM PROPH 40T2R H37515

- AT LEAST ONE BATHROOM AND ONE BEDROOM ON THE ENTRY LEVEL SHALL PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32 INCHES, MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGRESS FROM THE CLOSED POSITION; OR, IN THE CASE OF A TWO- OR THREE-STORY SINGLE FAMILY DWELLING, ON THE SECOND OR THIRD FLOOR OF THE DWELLING IF A BATHROOM OR BEDROOM IS NOT LOCATED ON THE

INTEGRATED WITH OTHER FEATURES ARE REQUIRED TO BE INSTALLED ABOVE 48 INCHES MEASURED FROM THE EXTERIOR FLOOR OR LANDING, A STANDARD DOORBELL BUTTON OR CONTROL SHALL ALSO BE PROVIDED AT A

- ALL ELECTRICAL RECEPTACLE OUTLET, SWITCH AND CONTROL HEIGHTS TO BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15 INCHES ABOVE THE FINISH FLOOR, PER

- AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED IN ACCORDANCE WITH THIS SECTION. WHERE THERE IS NO BATHROOM ON THE ENTRYL LEVEL, AT LEASET ONE BATHROOM

B. REINFORCMENT SHALL NOT BE LESS THAN 2 BY 8 INCH NOMINAL LUMBER OR OTHER CONSTRUCTION MATERIAL PROVIDING EQUAL HEIGHT AND LOAD CAPACITY. REINFORCEMENT SHALL BE LOCATED BETWEEN 32 INCHES

OUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR HE BATHTUB RIM

					Win	dow Sch	edule	
Application	Hardware	Glazing	Type Mark	Count		Height	Sill Height	Operation
		·,						
EXTERIOR	ENTRY		A	2	4' - 0"	4' - 0"	3' - 0"	SINGLE HUNG
INTERIOR								(DOUBLE)
INTERIOR			В	1	1' - 6"	6' - 8"	0' - 3"	FIXED
INTERIOR			С	1	3' - 6"	3' - 6"	3' - 6"	SINGLE HUNG
INTERIOR	PRIVACY		D	6	1' - 6"	1' - 6"	5' - 6"	FIXED
EXTERIOR	ENTRY	OBSCURE GLASS	E	1	5' - 0"	4' - 0"	3' - 0"	SINGLE HUNG
INTERIOR	PRIVACY							(DOUBLE)
			F	1	3' - 0"	1' - 6"	5' - 6"	SLIDER
DED PER 1,000 BT			WINDOW INFO	RMATION	<u>N:</u>			
OP OF THE DOOR SHALL BE PROVIDED. (CMC 701.5) FRAME: VINYL								

U VALUE: .29 SHGC: .21 ENERGY STAR CERTIFIED: YES LOW E GLASS: YES

LIGHT & VENTILATION CALCULATIONS

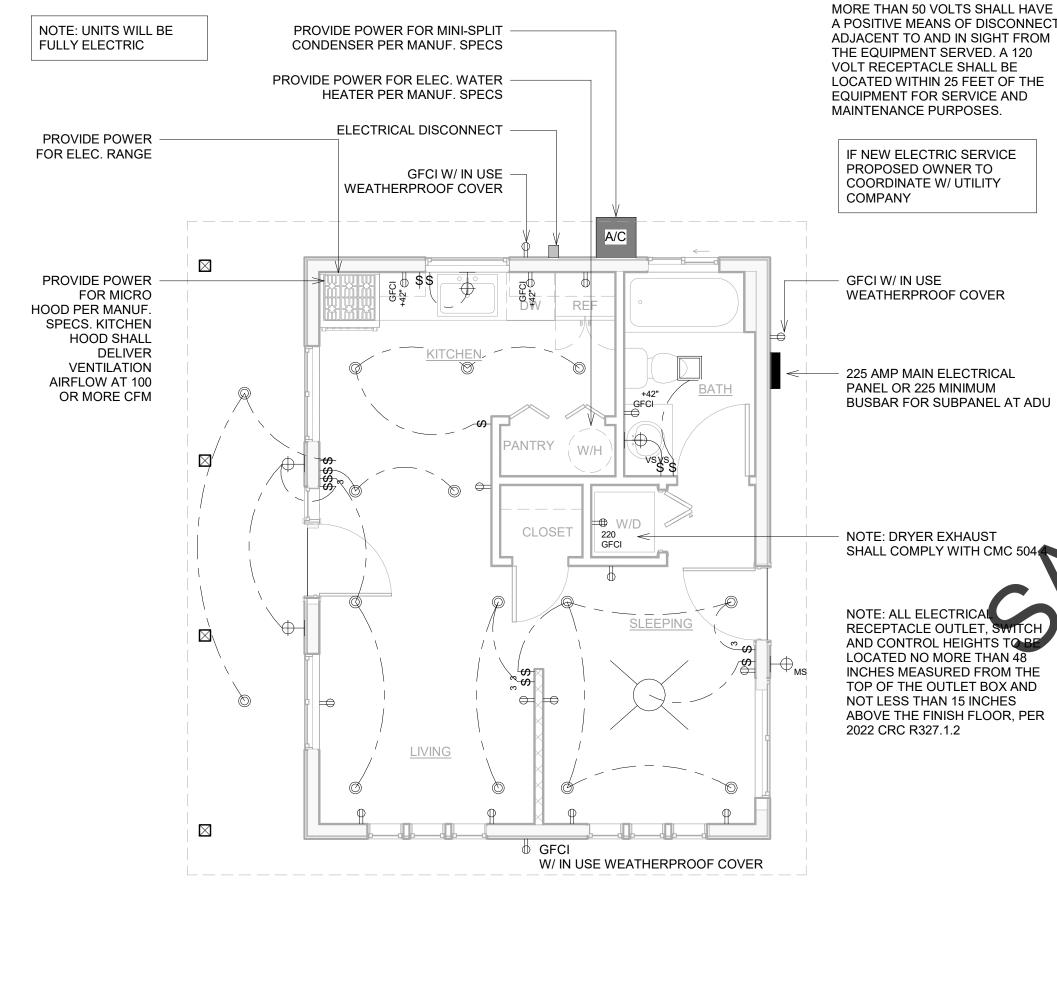
- ALL HABITABLE ROOMS ARE REQUIRED TO HAVE NATURAL LIGHT SIZED TO A MIN. OF 8% OF THE FLOOR AREA AND VENTILATION SIZED TO A MIN OF 4% OF THE FLOOR AREA.

STUDIO: 460 S.F. X .08 = 36.8 S.F. NATURAL LIGHT AREA REQ'D ; 94.65 S.F. PROVIDED 460 S.F. X .04 = 18.4 S.F. VENTILATION AREA REQ'D ; 46.5 S.F. PROVIDED **OPTIONAL BEDROOM 1:**

108 S.F. X .08 = 8.64 S.F. NATURAL LIGHT AREA REQ'D ; 20 S.F. PROVIDED 108 S.F. X .04 = 4.32 S.F. VENTILATION AREA REQ'D ; 5 S.F. PROVIDED VIA OPERATIONAL WINDOW

- THE INSTALLATION OF A LISTED COOKING APPLIANCE OR MICROWAVE OVEN OVER A LISTED COOKING APPLIANCE SHALL CONFORM TO THE CONDITIONS OF THE UPPER APPLIANCE'S LISTING AND THE MANUF. INSTALLATION INSTRUCTIONS.

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 GED ARCH LAURA A MILLER No. C-35317 REN. 4/30/25 OFCALIF ഗ Z Ω \frown Z C Z. DWEI ບ ≻ йO ≤ 0 Ŭ Đ Υ $() \subseteq$ $\triangleleft \supset$ S S S \triangleleft \square < Ш Ľ RMI. Ш Δ No. Date Description FLOOR PLAN 1/4" = 1'-0" MAR 2024 Approved By: LM Sheet Number: A-1.0



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.

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

3. WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS 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:

- SOLAR READY BUILDINGS, SHALL MEET THE REQUIREMENTS OF SECTION 110.10 APPLICABLE TO THE BUILDING PROJECT - ENERGY STORAGE SYSTEMS (ESS) READY. ALL SINGLE FAMILY RESIDENCES THAT INCLUDE ONE OR TWO DWELLING UNITS SHALL MEET THE FOLLOWING. ALL ELECTRICAL COMPONENTS SHALL BE

INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE: 1. AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED:

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."

BON MONOXIDE ALARM SMOKE DETECTOR/ NOTE: WHERE ALARM I **N**STALLED WITHIN 20' OF A COOKING A ECTRIC ALARM PER CRC 314.3.3 **PROVIDE A** ΡΗΟΤΟΕΙ SING MER IN KITCHEN BEDROOMS & NOTE:

SINGLE POLE VACANCY SENSOR SWITCH

3-WAY SWITCH

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▲ 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

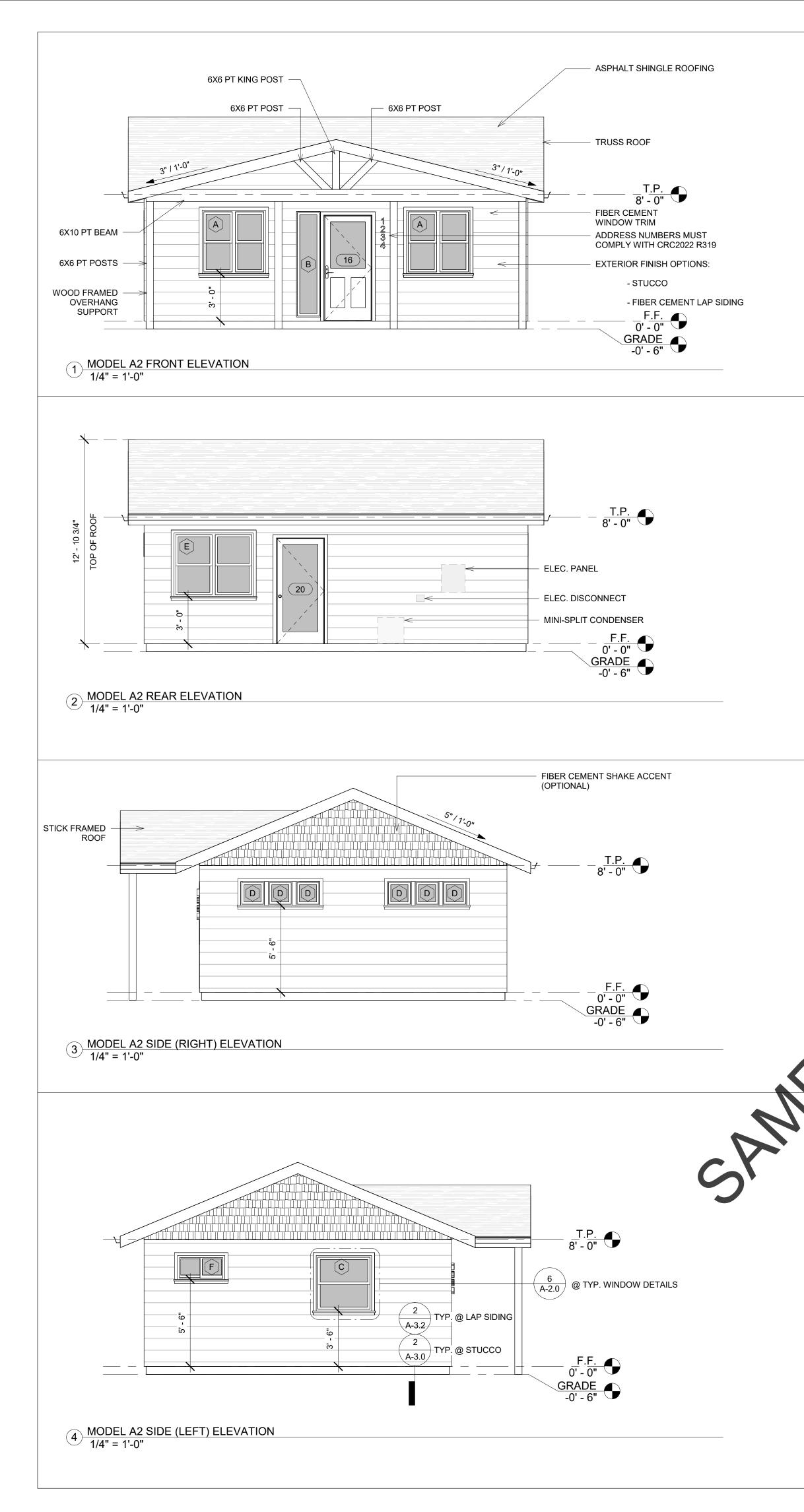
PANASONIC WHISPER CEILING VENTILATION FAN/LIGHT COMBO W/ HUMIDISTAT, NOTE: NEWLY INSTALLED BATHROOM EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND SHALL BE DUCTED TO TERMINATE TO THE OUTSIDE OF THE BUILDING. BATHROOM EXHAUST FAN SHALL DELIVER VENTILATION AIRFLOW AT 50 OR MORE CFM

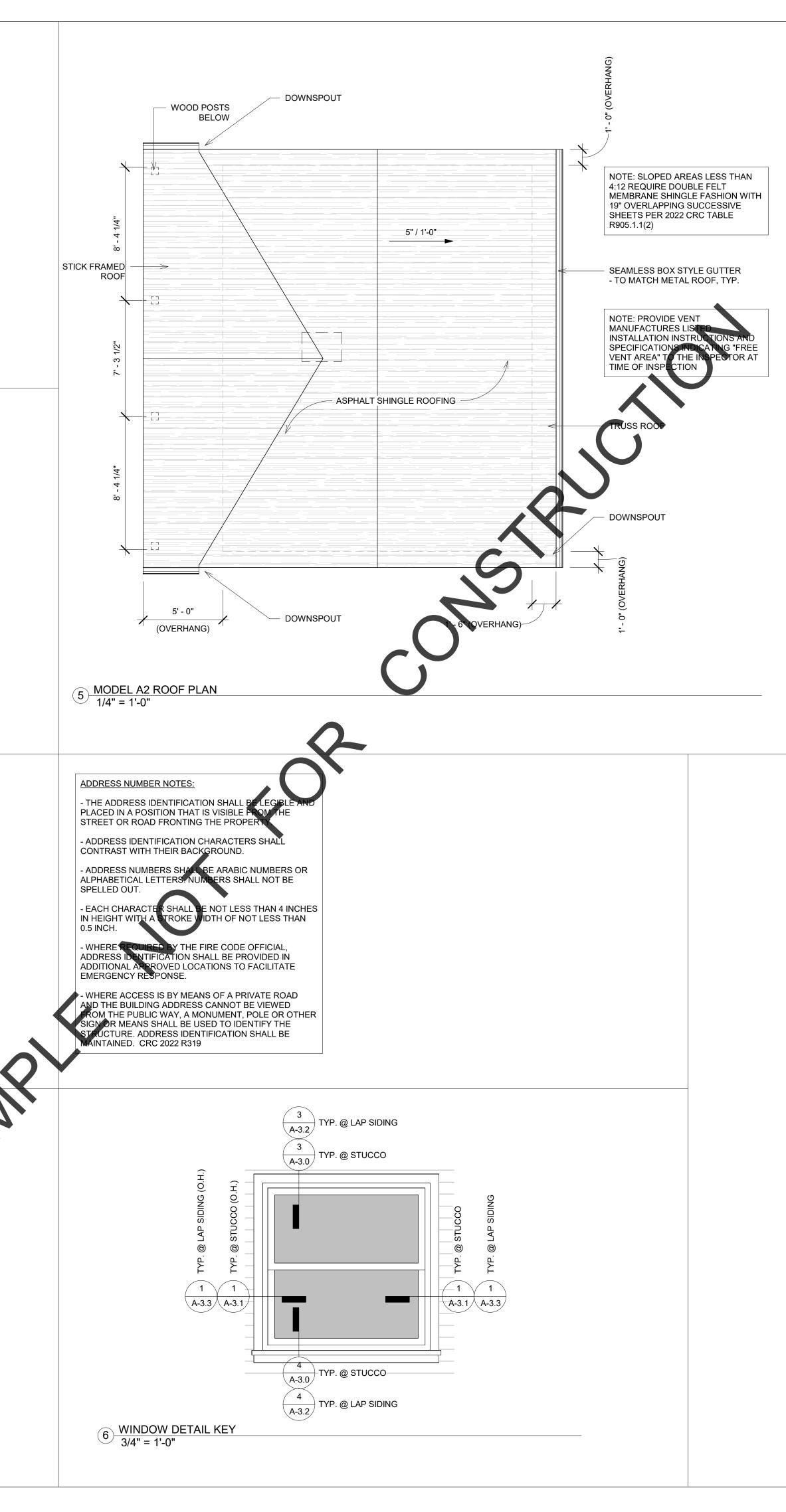
POWER PLAN LEGEND

1/4" = 1'-0"

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

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

ENCLOSED RAFTER AREA:

460 S.F./150 = 3.06 S.F. = 440.64 S.I. NET FREE VENTILATION AREA REQUIRED

ASPHALT SHINGLE ROOFING VENTILATION PROVIDED

UPPER ROOF VENTILATION: RIDGE VENT 24'-3" (24.25') LINEAR FEET OF RIDGE VENT VENT AREA OF RIDGE VENT: 12.5 S.I. PER LINEAR FOOT

24.25' X 12.5 = 303.1 S.I. VENTILATION FROM A 24'-3" LONG RIDGE VENT LOWER ROOF VENTILATION: O'HAGIN LOW PROFILE ROOF VENTS

137.54 S.I./72 S.I. PER VENT = 1.9 = 2 ROOF VENTS NEEDED 144 S.I. VENTILATION FROM 2 ROOF VENTS

TOTAL VENTILATION PROVIDED = 447.1 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

- GUTTERS & DOWNSPOUTS TO BE BOX STYLE. COLOR TO MATCH EXTERIOR TRIM.

- UPPER ROOF VENTILATION TO BE PROVIDED BY OWENS CORNING VENTSURE RIDGE VENT RIGID ROLL WITH WEATHER PROTECTOR MOISTURE BARRIER OR APPROVED EQUAL.

- LOWER VENTILATION TO BE PROVIDED BY O'HAGIN LOW PROFILE ROOF VENTS OR APPROVED EQUAL.

- ATTIC ACCESS OPENINGS TO ATTIC AREAS 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 INCHES 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 22 INCHES WIDE BY 30 INCHES HIGH.

- NOTE: PROVIDE VENT MANUFACTURES LISTED INSTALLATION INSTRUCTIONS AND SPECIFICATIONS INDICATING "FREE VENT AREA" TO THE INSPECTOR AT TIME OF INSPECTION.

EXPOSED TRUSS NOTES:

NATURALLY DURABLE OR PRESERVATIVE TREATED WOOD SHALL BE UTILIZED FOR THOSE PORTIONS OF BUILDINGS, BALCONIES, PORCHES OR SIMILAR PERMANENT BUILDING APPURTENANCES WHERE MEMBERS EXPOSED TO WEATHER WITHOUT ADEQUATE PROTECTION FROM A ROOF, EAVE, OVERHANG OR OTHER COVERING TO PREVENT MOISTURE OR WATER ACCUMULATION ON THE SURFACE OR AT JOINTS BETWEEN MEMBERS INCLUDING:

1. HORIZONTAL MEMBERS SUCH AS GIRDERS, JOISTS, AND DECKING

2. VERTICAL MEMBERS SUCH AS POSTS, POLES AND COLUMNS

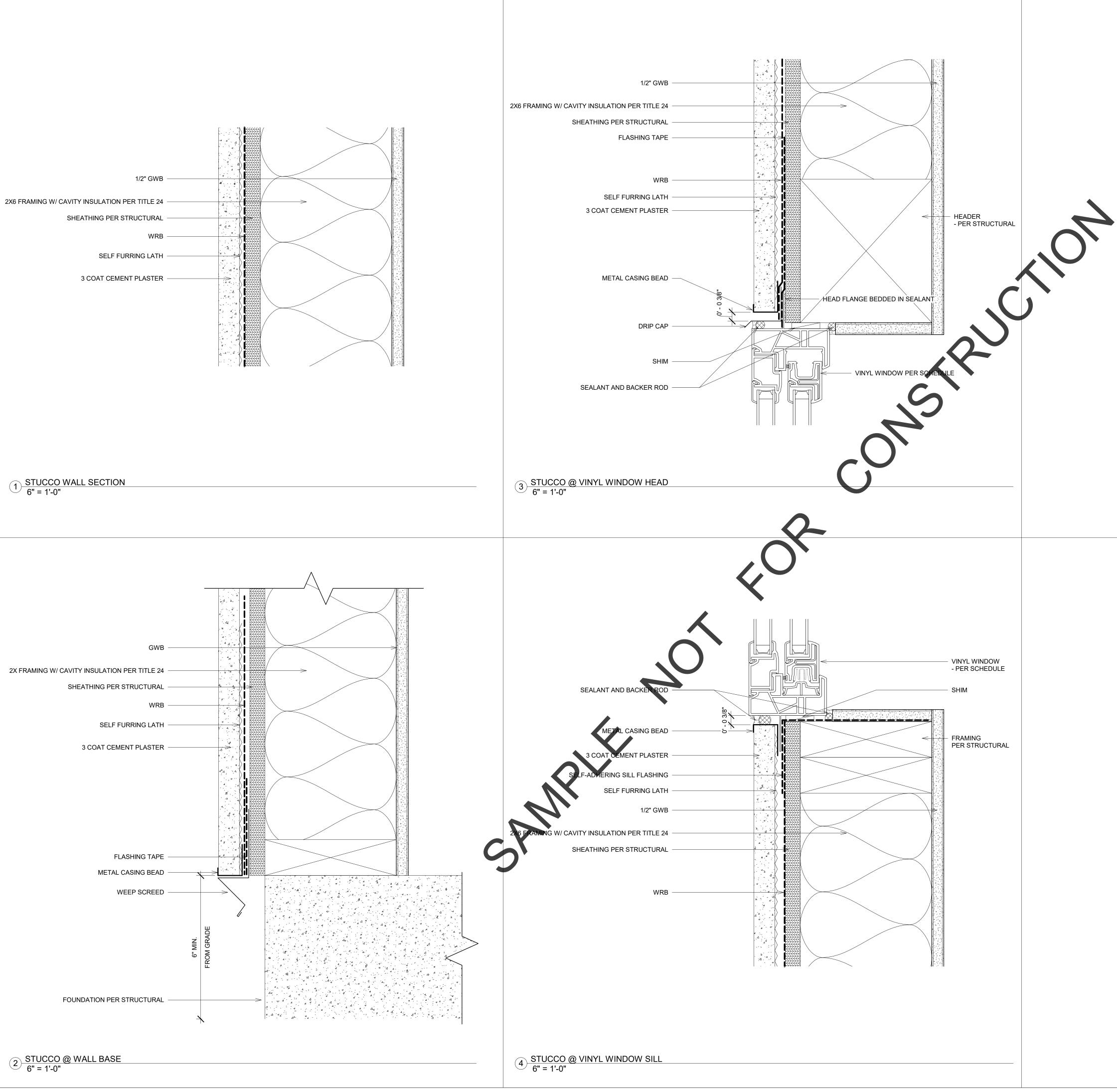
3. BOTH HORIZONTAL AND VERTICAL MEMBERS. 2022 CRC R317.1.3

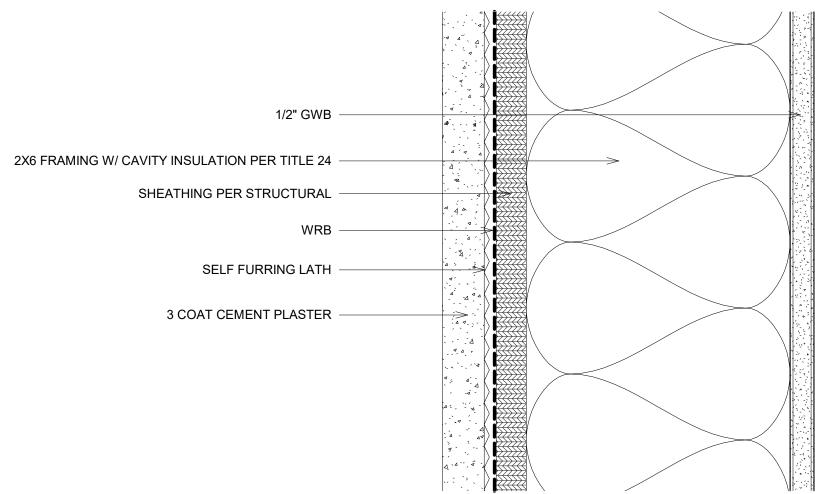
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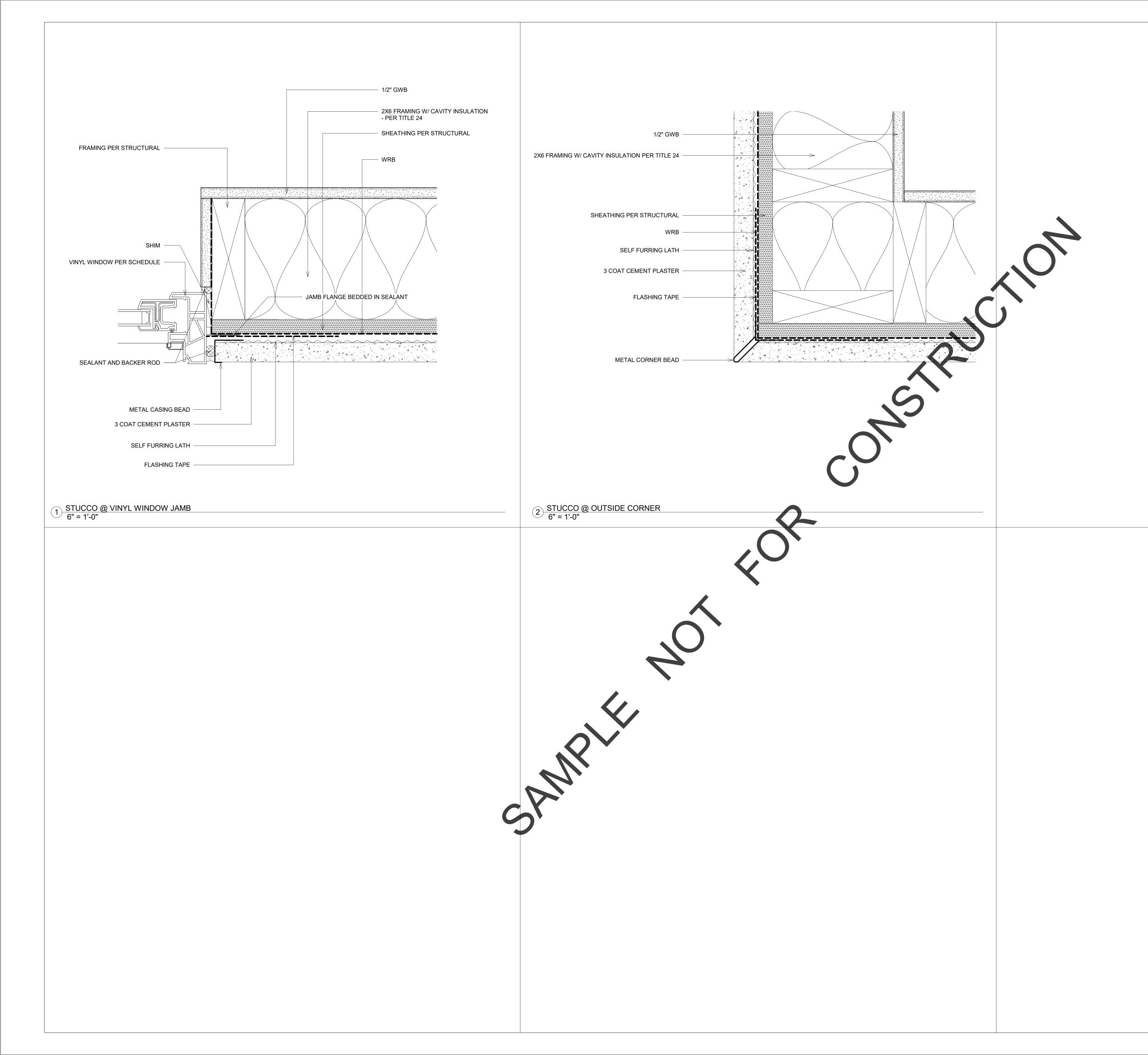
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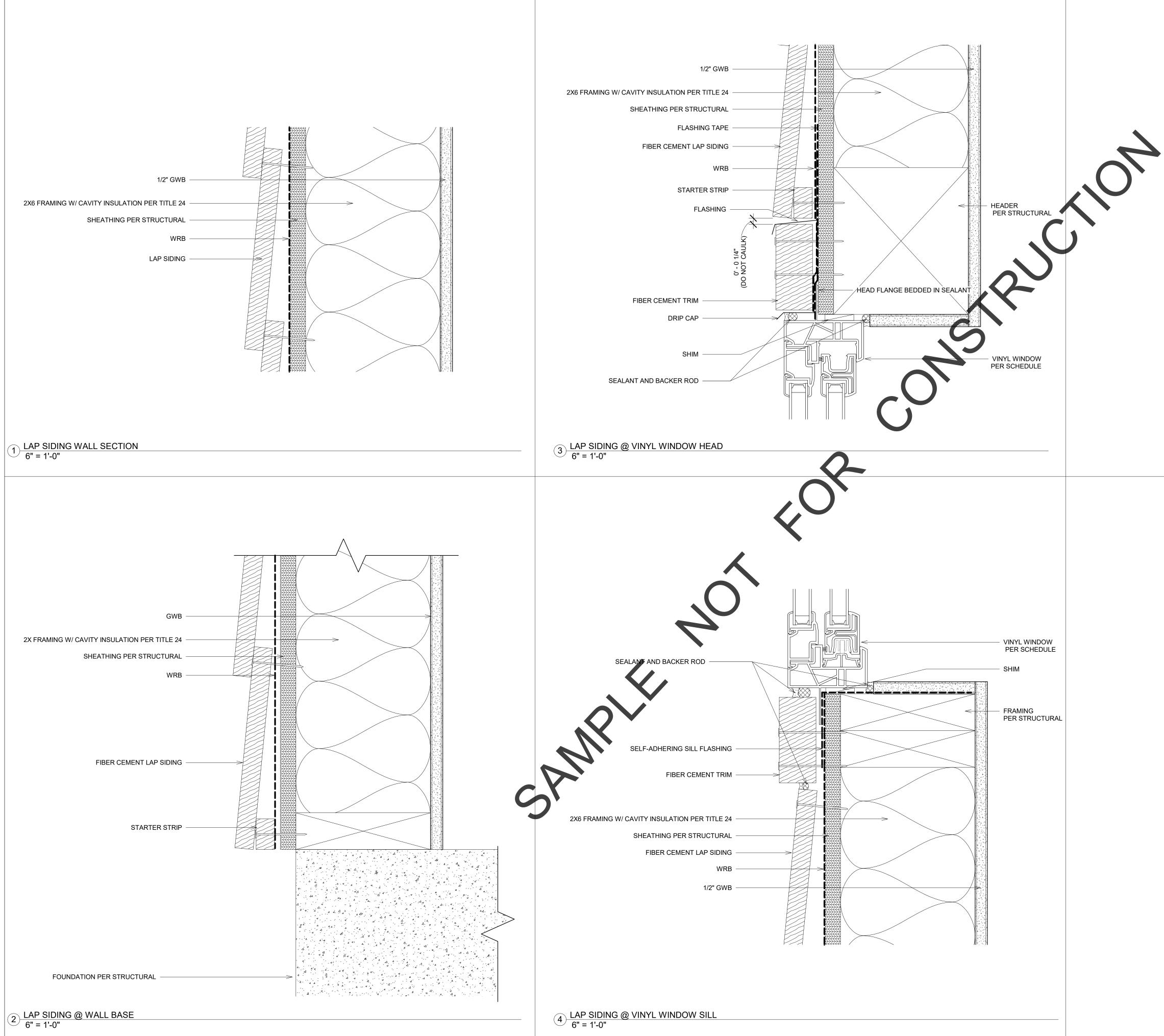




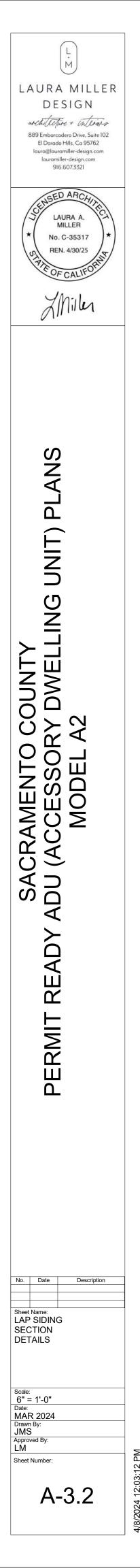
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6" = 1'-0" Date: MAR 2024 Drawn By: JMS Approved By: LM Sheet Number: A-3.0

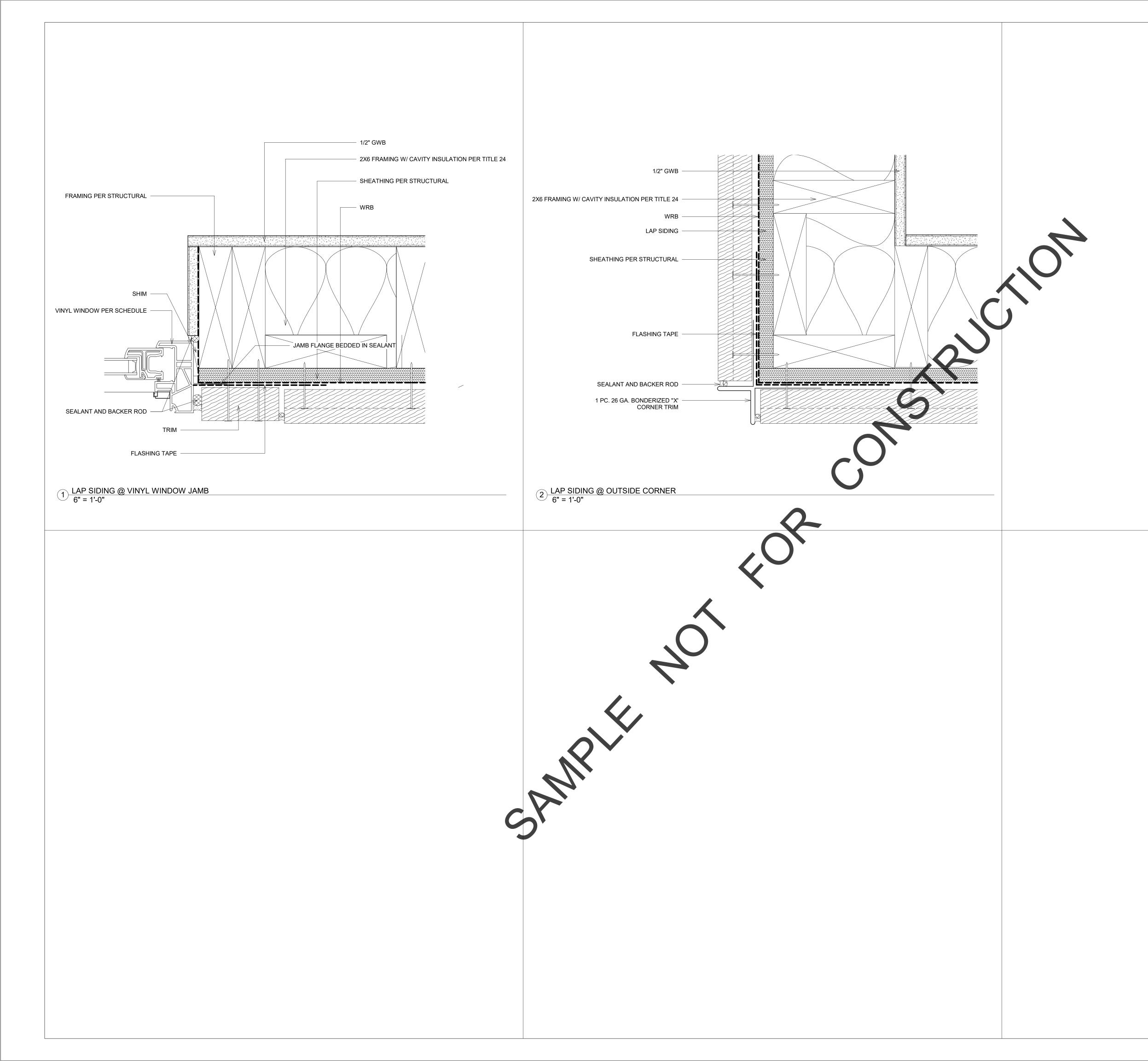


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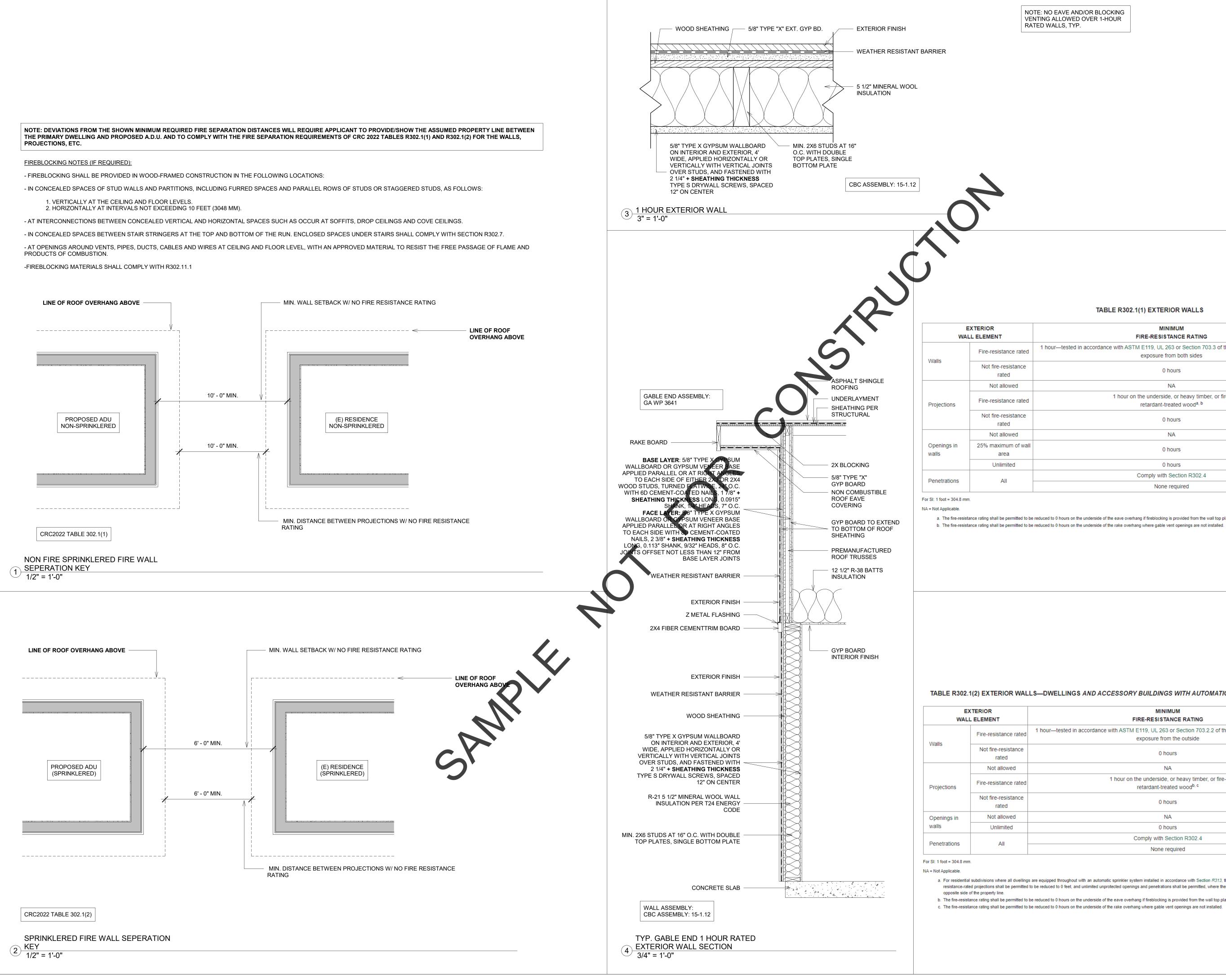


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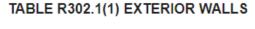




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NOTE: NO EAVE AND/OR BLOCKING VENTING ALLOWED OVER 1-HOUR RATED WALLS, TYP.



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 ^{a, b}	≥ 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 ^{a, b} 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 ^a
	NA	< 2 feet
ated	1 hour on the underside, or heavy timber, or fire- retardant-treated wood ^{b, c}	2 feet ^a
nce	0 hours	3 feet
	NA	< 3 feet
	0 hours	3 feet ^a
	Comply with Section R302.4	< 3 feet
	None required	3 feet ^a

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.

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DESIGN architecture + interiors

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Sheet Number:

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	TRUSS NOTES	CONCRETE
	DESIGN LOADS:	 CONCRETE 28 DAY COMPRESSIVE STRENGTH, F'C = WATER TO CEMENT RATIO SHALL NOT EXCEED 0.5
	TOP CHORD 14 PSF DL	 WATER TO CEMENT RATIO SHALL NOT EXCEED 0.3 MOIST CURE SLABS FOR A MINIMUM OF 3 DAYS. CONCRETE MIX DESIGN SHALL BE PREPARED BY A
А	20 PSF LL (REDUCIBLE)	OF CONCRETE MIX PROPORTIONS SHALL BE PER T 5. CEMENT SHALL CONFORM TO ASTM C-150 TYPE I
	BOTTOM CHORD 5 PSF DL	6. CONCRETE AGGREGATES SHALL CONFORM TO AST SHALL CONFORM TO ASTM C-330.
	10 PSF LL (NON-CONCURRENT W/ TOP CHORD LL)	9. REINFORCING DIMENSIONS SHOWN FOR LOCATIO AND DENOTE CLEAR COVERAGE. CONCRETE COVE
	 TOP CHORD TO BE MINIMUM 2X4 TYPICAL - 2X4 ALL OTHER MEMBERS (U.N.O.). TRUSS MEMBERS SHALL BE DOUGLAS FIR (DF) NO.2 OR BETTER. 	AGAINST GROUND (EXCEPT SLABS) -3". CONCRETE SLABS (ON GROUND) -2" CLEAR FROM TOP U.N.O. 10. ALL PREHEATING AND WELDING OF REINFORCING
	 WOOD UNDER PLATES MUST BE FREE OF KNOTS, KNOT HOLES AND GREATLY DISTORTED GRAINS. CALCULATIONS AND TRUSS DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER FOR REVIEW PRIOR TO FABRICATION. GIRDER TRUSSES CALCULATIONS SHALL INCLUDE POINT LOADS 	D1.4 LATEST EDITION AND SHALL BE CONTINUOUS CONTRACTOR SHALL FURNISH TO THE LABORATOR
	FOR REVIEW PRIOR TO FABRICATION. GIRDER TROSSES CALCULATIONS SHALL INCLUDE POINT LOADS FROM CARRIER TRUSS REACTIONS. ALL CALCULATIONS SHALL BE SIGNED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.	11. REINFORCING STEEL SHALL BE FABRICATED ACCOP REINFORCED CONCRETE CONSTRUCTION".
	 FABRICATION AND DESIGN SHALL CONFORM TO THE ICBO, CURRENT EDITION AND ANSI/TPI 1-2014 OF THE TRUSS PLATE INSTITUTE. 	12. WIRE FABRIC SHALL CONFORM TO ACI 318-3.5.1, A 13. REINFORCING STEEL SHALL CONFORM TO ASTM A
	 PROVIDE TEMPORARY ERECTION BRACING AS REQUIRED. ALLOWABLE STRESS INCREASE FOR LOAD DURATION SHALL BE 25% (PERCENT) MAXIMUM. 	A615-GRADE 40 FOR NO. 4 AND SMALLER, EXCEPT TO ASTM A706. 14. SPLICES IN CONTINUOUS REINFORCEMENT FOR A
в	 INCREASE FOR ALLOWABLE STRESSES FOR REPETITIVE MEMBERS, SHALL BE PERMISSIBLE. EFFECTS OF ECCENTRIC LOADING SHALL BE CONSIDERED IN THE DESIGN OF ALL JOINTS. 	CONCRETE WHERE LESS THAN 12" OF CONCRETE I AND SPLICES IN ADJACENT BARS SHALL BE NOT LE
	 GENERAL CONTRACTOR TO PROVIDE WEB BRACING AS REQUIRED BY TRUSS MANUFACTURERS DESIGN. BUILT-UP GIRDER TRUSSES SHALL BE LAMINATED USING ¹/₂" BOLTS AT 24" CC MAXIMUM THROUGH ALL MEMBERS. 	63 BAR DIAMETERS. SPLICE CONTINUOUS BARS IN BARS AT MID-SPAN; BOTTOM BARS AT CENTERLIN
	 ALL HARDWARE REQUIRED FOR CONNECTING TRUSSES (JACK TO HIP, HIP TO GIRDER, GIRDER TO GIRDER, ETC) SHALL BE DESIGNED, DETAILED AND SPECIFIED BY TRUSS FABRICATOR. 	IN WWF SHALL BE 1.5 MESHES WIDE. 15. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVI TIED SECURELY IN POSITION BEFORE PLACING COI
	13. TRUSS MANUFACTURER SHALL SUBMIT LATEST ICBO APPROVED TEST DATA FOR TRUSS METAL PLATE CONNECTIONS TO ARCHITECT AND/OR ENGINEER PRIOR TO FABRICATION.	16. CONSTRUCTION JOINTS SHALL BE MADE ROUGH A BE ROUGHENED BY SAND BLASTING OR CHIPPING
	 TRUSS MANUFACTURER TO PROVIDE PLAN DRAWING SHOWING TRUSS LOCATIONS AND TRUSS PROFILE SHOP DRAWINGS PRIOR TO FABRICATION. CONTRACTOR TO VERIEV ALL DIMENSIONS SHOWIN ON TRUSS PROFILES WITH 	DEFORMATIONS. 17. REMOVE ALL DEBRIS FROM FORMS BEFORE CASTI
	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 DRAWINGS WITH DIMENSIONS REVIEWED AND APPROVED BY GENERAL CONTRACTOR.	18. 3'-0" SHALL BE THE MAXIMUM ALLOWED FREE FA ACI 318-5.10.
	 16. TRUSS MANUFACTURER TO ACCOUNT FOR THE WEIGHT OF ALL MECHANICAL EQUIPMENT IN DESIGN OF ALL TRUSSES WHICH SUPPORT SUCH UNITS. 	19. CONSOLIDATE CONCRETE PLACED IN FORMS BY M BY HAND-SPADING, RODDING OR TAMPING. USE E OF CONCRETE IN ACCORDANCE WITH THE RECOM
		CONCRETE AND PROJECT CONDITIONS. 20. NO WOOD SPREADERS ALLOWED. NO WOOD STAI
с		21. ALL SAW CUTTING SHALL BE DONE AFTER INITIAL BY THE SWABBED, BUT BEFORE INITIAL SHRINKING
		 DRILL THROUGH STEEL COLUMNS, BEAMS AND PL ADDITIONAL REINFORCING IN PRECAST OR TILT-U
		SUPPLIED BY THE CONTRACTOR. 24. PROVIDE 2-NO.5X4'-0" DIAGONAL REINFORCING A TYPICAL.
		FOUNDATIONS
		 BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL. ELEVATION SHALL BE MADE ACCORDING TO STEPP DETAIL SHEET.
		2. ALL PILE CAPS, GRADE BEAMS, TIE BEAMS & OTHE SPECIFICALLY APPROVED BY THE ENGINEER OF RE
D		NEAT EXCAVATIONS PROVIDED WRITTEN APPROV INCREASED 2" IN WIDTH. USE 2X12 PLANK AT EDG
_		 SLUFFING, AS REQUIRED. 3. WORK PERFORMED ON FOUNDATION SHALL BE D REQUIREMENTS OF THE CURRENT CBC
		 4. IF A TWO POUR FOUNDATION IS UTILIZED, THE CO FOOTING AND SLAB-ON-GRADE SHOULD BE LOCATION
		GRADE. IF THIS IS NOT DONE, A WATERSTOP BET
E		SHEARWALL
		 MIN 2X FRAMING MEMBERS OR BLOCKING REQUI TABLE VALUES ARE BASED ON 16" OC STUD SPACI
		3. ALL ANCHOR BOLTS IN WALLS INCLUDING SHEAR WASHERS. ONE EDGE OF THE STEEL PLATE WASHE
		MUDSILL ON THE SIDE(S) WITH APA RATED WOOD WASHER IS PERMITTED TO BE DIAGONALLY SLOTT
		LARGER THAN THE BOLT DIAMETER AND A SLOT L PROVIDED A STANDARD CUT WASHER IS PLACED E
		 SOLE PLATE NAILING LESS THAN 6" OC SHALL BE S THE SOLID RIM. (2) ANCHOR BOLTS MINIMUM PER SHEAR WALL.
		 6. 3X and 4X MEMBERS AT ADJOINING PANEL EDGES 7. FOR SHEAR WALLS ON RAISED WOOD, FOUNDATION
		CLIPS AT THE 2x SOLE PLATE, A MINIMUM OF 11, 6 8. SOLE PLATE TO RIM, OR SOLE PLATE TO BEAM/BM
F		9. WHEN A SHEARWALL IS LOCATED IN A FIRE PROTE OC MAX REGARDLESS OF THE SHEAR WALL SPECIF
		SAME AS SPECIFIED ON THE PLANS. 10. DRYWALL SCREWS ARE PERMITTED TO SNBSTITUT 11. ALL FIELD NAILING SHALL BE @ 12" OC MAX., U.N.
G		

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4

ABBREVIATIONS AB ANCHOR BOLT MI MALLEABLE IRON BTWN BETWEEN (N) NEW **CENTER TO CENTER** PTDF PRESSURE TREATED DOUGLAS FIR CC CONSTRUCTION JOINT PARALLEL STRAND LUMBER CJ PSL CJT CONTROL JOINT 2900Fb, 290Fv, 2.0E CLR CLEAR NTS NOT TO SCALE CONC OH CONCRETE OPPOSITE HAND CONT CONTINUOUS PC PIECE СР COMPLETE PENETRATION PP PARTIAL PENETRATION DF DOUGLAS FIR PW PANEL WALL DEAD LOAD RDWD REDWOOD DL (E) SHEAR CONNECTOR EXISTING SC **EXPANSION JOINT** SDSTS SELF DRILLING SLF TAPPING SCRW EJ SP EN STRUCTURAL PLY FN FB FACE OF BLOCK SPEN STRUCTURAL PLY EN STFNR STIFFENER FC FACE OF CONCRETE FF STGGRD ... STAGGERED FINISH FLOOR FLR T&B TOP & BOTTOM FLOOR T&G TONGUE & GROOVE FACE OF STUD FS FTG FOOTING TN TOE NAIL TOF GA GAUGE TOP OF FRAMING TOS TOP OF STEEL GLB GLUED-LAMINATED BEAM UNO UNLESS NOTED OTHERWISE HDR HEADER HSB HIGH STRENGTH BOLT (A-325) W/ WITH HT WITHOUT HEIGHT W/O JOIST HANGER (SIMPSON) WORK POINT JH WP. LL LIVE LOAD WS WOOD SCREW LAG SCREW WWF WELDED WIRE FABRIC LS LAMINATED STRAND LUMBER LSL CENTERLINE 2325 Fb, 310 Fv, 1.55E PLATE H NUMBER OF POUNDS LT WT LIGHT WEIGHT LAMINATED VENEER LUMBER LVL SQUARE ROUND OR DIAMETER 2600Fb, 285Fv, 1.8E CONTINUOUS WOOD IN SECTION MFR MANUFACTURER ≤,..... WOOD BLOCKING IN SECTION END OF WOOD PIECE

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.
- DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DRAWING (DO NOT SCALE DRAWING.)
 THE ENGINEER HAS NOT BEEN ENGAGED FOR CONSTANT CONSTRUCTION SUPERVISION AND ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION COORDINATING WITH THESE PLANS, NOR RESPONSIBILITY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THERE ARE NO WARRANTIES FOR A SPECIFIC USE EXPRESSED OR IMPLIED IN THE USE OF THESE PLANS.
- REFER TO ARCHITECTURAL SHEETS FOR FLOOR PLANS, EXTERIOR ELEVATIONS, AND WINDOW AND DOOR SIZES AND TYPES.

DESIGN CRITERIA

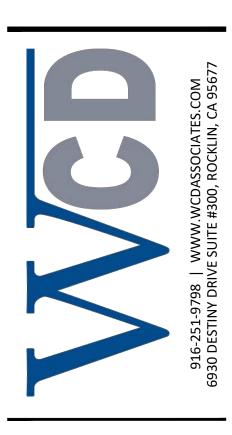
SEISMIC CRITERIA		_	GRAVITY LOADING	
SDC		D	ROOF LIVE	20psf
SITE CLASS		D	ROOF DEAD	12psf
RISK CATEGORY		II	WALL DEAD	17psf
SEISMIC IMPORTANCE FACTOR	R	1.00		
RESPONSE MODIFICATION FAC	CTOR	6.5		
SEISMIC FORCE RESISTING SYS	TEM:			
LIGHT FRAME WOOD SHEAR W	VALL		WIND CRITERIA	
			ULTIMATE WIND, Vult	93mph
Ss	1.322g		BASIC WIND, Vasd	76mph
S ₁	0.458g		WIND EXPOSURE	D
S _{DS}	1.058g		INTERNAL PRESSURE COEFF	+1-0.18
S _{D1}	0.763g		lw	1.0
Cs	0.163g			
Ωο	3.0		SOIL BEARING	1500psf
C _D	3.5			
ANALYSIS PROCESS	EQUIVALEN	T LATERAL FORCE	CODES	
			ASCE 7-16, CBC 2022, ACI318-	-19, 2018 NDS

STRUCTURAL INDEX

SN1STRUCTURAL NOTES AND SPECIFICATIONSS1.0FOUNDATION, SHEARWALL, AND ROOF FRAMING PLANS

2

- SD1 STRUCTURAL DETAILS
- SD2 STRUCTURAL DETAILS SD3 STRUCTURAL DETAILS

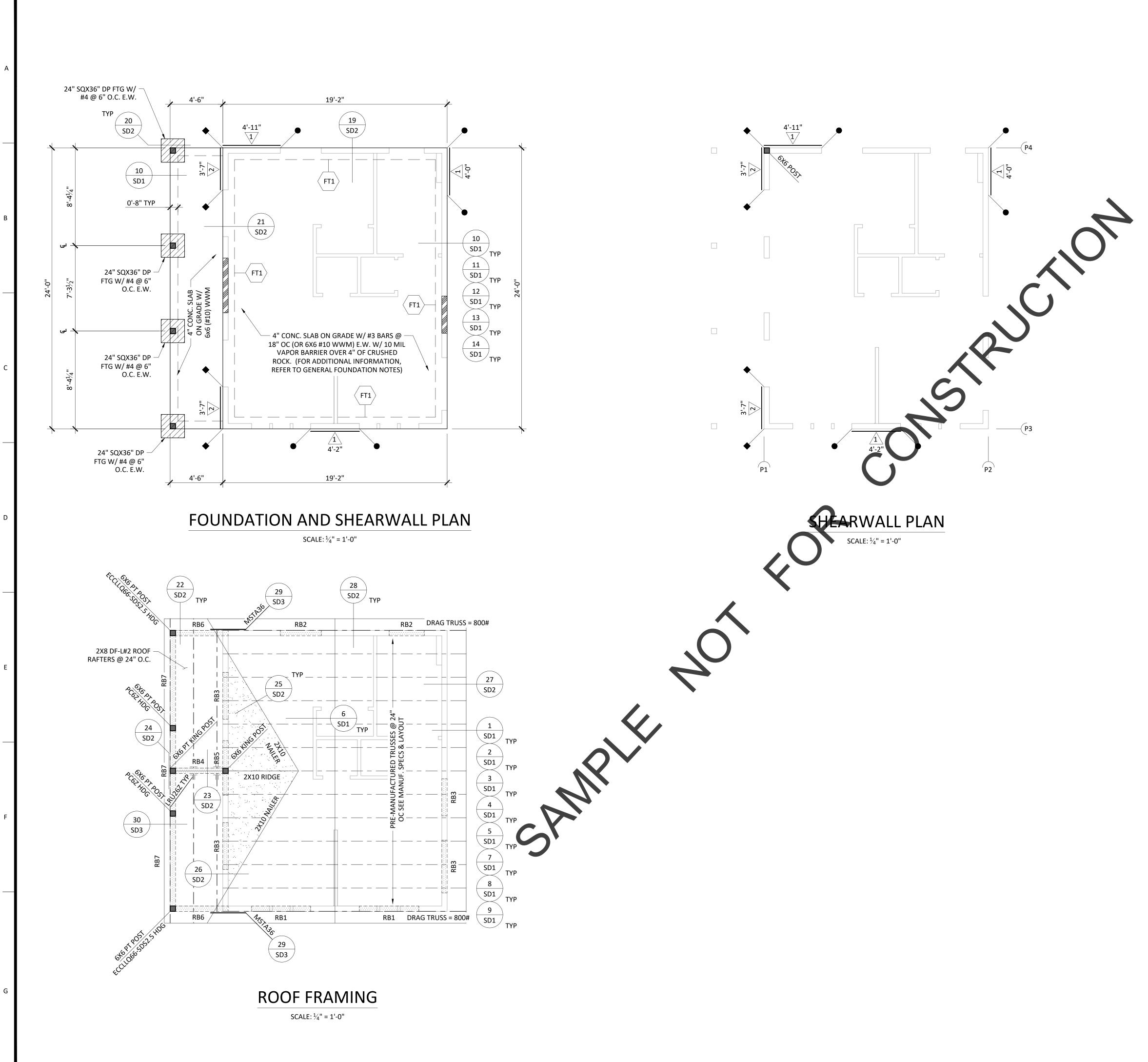


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SN1

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6

OOT	ING SCHEDULE					
YPE	DIMENSIONS	PARALLE	EINFORCEM	RPENDICULAR	MAX. CAPACITY	NOTES
	NOTH MDTH DEF NO. ONT. 12" 12" 2		NGTH NO. CONT	SIZE LENGTH	1,500 PLF	(1) TOP, (1) BOT
					1,500 1 21	
STF 2. PO: WI 3. TYF BO 4. PR(EXT STE 5. PR(6" 6. ALI OF 7. SLA TH PEN CU RET	E CONTRACTOR IS RESPONS RUCTURAL PLYWOOD SHEA STS SHOWN ON THE FOUND TH A HOLDOWN OR POST E PICAL ONE STORY FOUNDA TTOM (TOT. 2). OVIDE 5/8"X10" ANCHOR BO TERIOR NON-SHEAR WALLS EEL WASHERS. OVIDE 2X PTDF SLEEPER EM PAST DOOR CASING. (2) 200 L FOOTINGS, FOUNDATIONS THE CALIFORNIA BUILDING AB REINFORCEMENT SHALL IRD OF SLAB. WHERE VAPO NETRATIONS AND SHALL CO RRENT VERSION OF ASTM E TARDERS USED IN CONTACT	THING SPI DATION PI ASE CONI FION, U.N LTS @ 4'-C W/ 7" MI BEDDED I d @ EA EN 5, EXCAVA CODE. BE PROVI R BARRIEF DNFORM T E 1745, "ST WITH SO	ECIFICATION LAN ARE THO NECTOR. .O 12" WIE O" OC AND 12 N. EMBEDMI N SLAB AT D ID & 24" OC TIONS, GRAI DED EACH W S IS REQUIRE O CLASS A V TANDARD SP IL OR GRANI	S AND NAILING SCH DSE DIRECTLY CONN DE X 12" DEEP FOOT 2" FROM ALL EDGES ENT. FASTEN TO BO OORS LEADING TO E DING, AND FILL SHAI YAY, AS INDICATED C D, VAPOR RETARD E APOR RETARDER IN ECIFICATIONS FOR F	EDULE. ECTED TO THE ING WITH (1) # AT THE BEARII ITOM PLATE U EXTERIOR AND LL COMPLY TO ON THE PLANS, BARRIER SHALL ACCORDANCE PLASTIC WATEF DNCRETE SLABS	FOUNDATION 4 REBAR TOP AND NG WALLS AND SING 3"X3"X ¹ /4" GARAGE. EXTEND THE PROVISIONS IN THE MIDDLE BE SEALED AT ALL WITH THE MOST VAPOR 5". VAPOR BARRIER
TH, 8. CO SET FOI	AN 5% PASSING THE NO. 4 INTRACTOR IS RESPONSIBLE T. ANY DISCREPANCIES SHA RMING AND/OR POURING (DATION LEGEN	SIEVE. FOR VERI LLL BE BRC CONCRETE	FYING ALL M DUGHT TO TH	IEASUREMENTS AG	AINST THE ARC HE EOR AND DE	HITECTURAL PLAN
TH, 8. CO SET FOI	AN 5% PASSING THE NO. 4 INTRACTOR IS RESPONSIBLE T. ANY DISCREPANCIES SHA RMING AND/OR POURING (DATION LEGEN (N) FOOTING - S AND REINFORC	SIEVE. FOR VERI LL BE BRC CONCRETE D EE FOOTIN	FYING ALL M DUGHT TO TH E. NG SCHEDUL	EASUREMENTS AG	AINST THE ARC HE EOR AND DE	HITECTURAL PLAN
8. CO SET FOI	AN 5% PASSING THE NO. 4 INTRACTOR IS RESPONSIBLE T. ANY DISCREPANCIES SHA RMING AND/OR POURING (DATION LEGEN (N) FOOTING - S AND REINFORC	SIEVE. FOR VERI LL BE BRC CONCRETE D EE FOOTIN EMENT. PER FOUN	FYING ALL M DUGHT TO TH E. NG SCHEDUL	EASUREMENTS AG	AINST THE ARC HE EOR AND DE	HITECTURAL PLAN
8. CO SET FOI FOUN	AN 5% PASSING THE NO. 4 INTRACTOR IS RESPONSIBLE T. ANY DISCREPANCIES SHA RMING AND/OR POURING (DATION LEGEN (N) FOOTING - S AND REINFORC	SIEVE. FOR VERI LL BE BRC CONCRETE D EE FOOTIN EMENT. PER FOUN	FYING ALL M DUGHT TO TH E. NG SCHEDUL	EASUREMENTS AG	AINST THE ARC HE EOR AND DE	HITECTURAL PLAN ESIGNER BEFORE
8. CO SET FOI FOUN	AN 5% PASSING THE NO. 4 INTRACTOR IS RESPONSIBLE T. ANY DISCREPANCIES SHA RMING AND/OR POURING (DATION LEGEN (N) FOOTING - S AND REINFORCE DOOR SLEEPER	SIEVE. FOR VERI LL BE BRC CONCRETE D EE FOOTII EMENT. PER FOUN	IFYING ALL N DUGHT TO THE NG SCHEDUL	IEASUREMENTS AG/ IE ATTENTION OF TH E FOR DIMENSIONS TE #5. VERT. MEMBER @ ADJ. PANEL	AINST THE ARC HE EOR AND DE	HITECTURAL PLAN ESIGNER BEFORE
8. CO SET FOI FOUN SHEA SHEA #### PLF	AN 5% PASSING THE NO. 4 INTRACTOR IS RESPONSIBLE T. ANY DISCREPANCIES SHA RMING AND/OR POURING (DATION LEGEN (N) FOOTING - S AND REINFORCE DOOR SLEEPER COOR SLEEPER SHEATHING/NAILING 3/8" APA RATED ONE FACE W/8d COMMONS @ 6" OC EDGE & 12" O.C. FIELD. 8" O.C. FIELD AT	SIEVE. FOR VERI LLL BE BRC CONCRETE D EE FOOTIN EMENT. PER FOUN JLE MUD SILL	FYING ALL N DUGHT TO THE NG SCHEDUL IDATION NO ANCHOR BOLTS	IEASUREMENTS AG/ IE ATTENTION OF TH E FOR DIMENSIONS TE #5. VERT. MEMBER @ ADJ. PANEL EDGES	AINST THE ARC HE EOR AND DE	HITECTURAL PLAN ESIGNER BEFORE

INSTALL PER DETAIL 17/SD2 & 18/SD2 2,685 LBS

STHD14/14RJ HOLDOWN

ALL HOLDOWN CONNECTORS SHALL BE RE-TIGHTENED JUST PRIOR TO ENCLOSURE. CONTRACTOR SHALL PLACE ALL HOLDOWNS IN THE CORRECT LOCATION TO TIE INTO

HD POST. . REFER TO DETAIL 18/SD2 FOR HD PLACEMENT AT WINDOW OR DOOR OPEN.

ROOF BEAM SCHEDULE

NAME	PLY	SIZE	ТҮРЕ	LOCATION
RB1	1	6X8	DF-L#2	HEADER
RB2	1	6X6	DF-L#2	HEADER
RB3	1	6X8	DF-L#2	HEADER
RB4	1	6X12	PTDF-L#2	FLUSH
RB5	1	6X10	DF-L#2	HEADER
RB6	1	6X10	PTDF-L#2	DROP
RB7	1	6X10	PTDF-L#2	DROP

BEAMS SPECIFICATIONS:

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

ROOF FRAMING NOTES

- 1. SEE SHEET SD1 AND SD2 FOR ADDITIONAL FRAMING DETAILS.
- 2. SEE "WOOD NOTES" ON SHEET SN1.
- 3. ALL BEAM SUPPORTING POSTS ARE TO BE AT LEAST THE WIDTH OF THE BEAM BEING SUPPORTED. 4. ROOF SHEATHING SHALL BE $\frac{15}{32}$ " CDX/OSB WITH 8d @ 6" O.C. EDGE NAILING & 6" O.C. FIELD NAILING, U.N.O. 6" EDGE & 6" INTERMEDIATE AT EAVE END & OVERHANGS. $\frac{32}{16}$ SPAN RATING.
- 5. NO EDGE BLOCKING REQUIRED, U.N.O.
- 6. TOP PLATE SPLICE AT INTERIOR AND EXTERIOR WALLS SHALL BE 48" MIN. LENGTH AND NAILED WITH (16) 16d NAILS.
- 7. ROOF OVERFRAME 2x DF-L#2 @ 24" O.C. (ONE NOMINAL SIZE SMALLER THAN RIDGE BOARD) OVERFRAME AREA PROVIDE OPENINGS THROUGH ROOF SHEATHING BELOW INTO MAIN ATTIC SPACE FOR ADEQUATE VENTILATION. IN AREAS OF HEAD ROOM OF MORE THAN 30" HIGH PROVIDE A 22" x 30" ACCESS THROUGH MAIN ROOF SHEATHING (TYP).
- 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 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 GABLE END RAKE OVERHANG TO BE HALF OF THE TRUSS SPACING.

2

ROOF LEGEND

3

BEAM PER BEAM SCHEDULE

INTERIOR NON-BEARING WALL

*NOTE: ALL EXTERIOR WALLS SHALL BE BEARING WALLS



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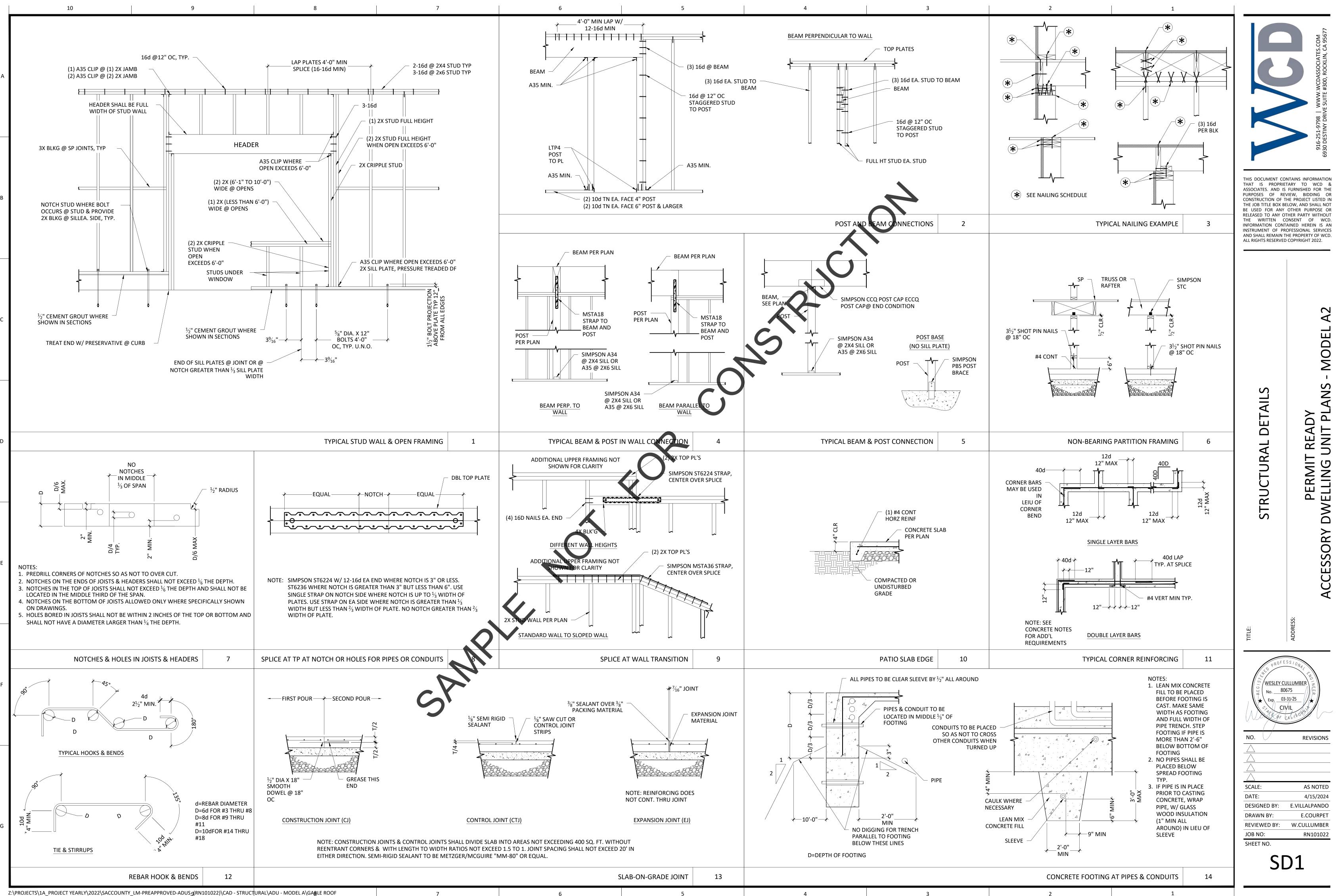
 \sim 4 MODEL AND ANS OUNDATION, SHEARWALL, ROOF FRAMING PLANS r ready Unit pl ERN БШ \geq \square SSORY LL \bigcirc WESLEY CULLUMBER 80675 ★ Exp. 03-31-25 CIVIL NO. REVISIONS AS NOTED SCALE: DATE: 4/15/2024 DESIGNED BY: E.VILLALPANDO DRAWN BY: E.COURPET **REVIEWED BY:** W.CULLUMBER JOB NO:

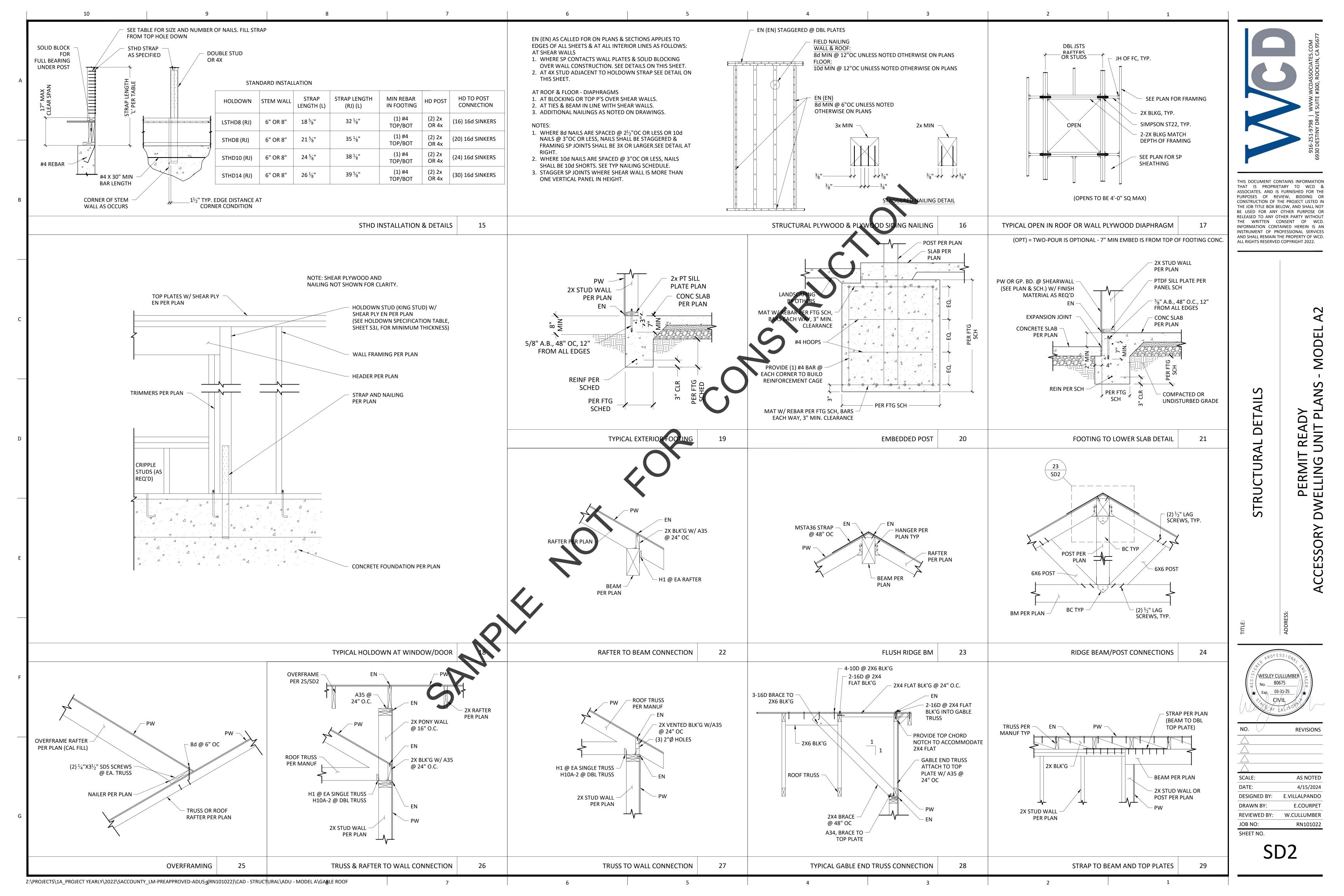
SHEET NO.

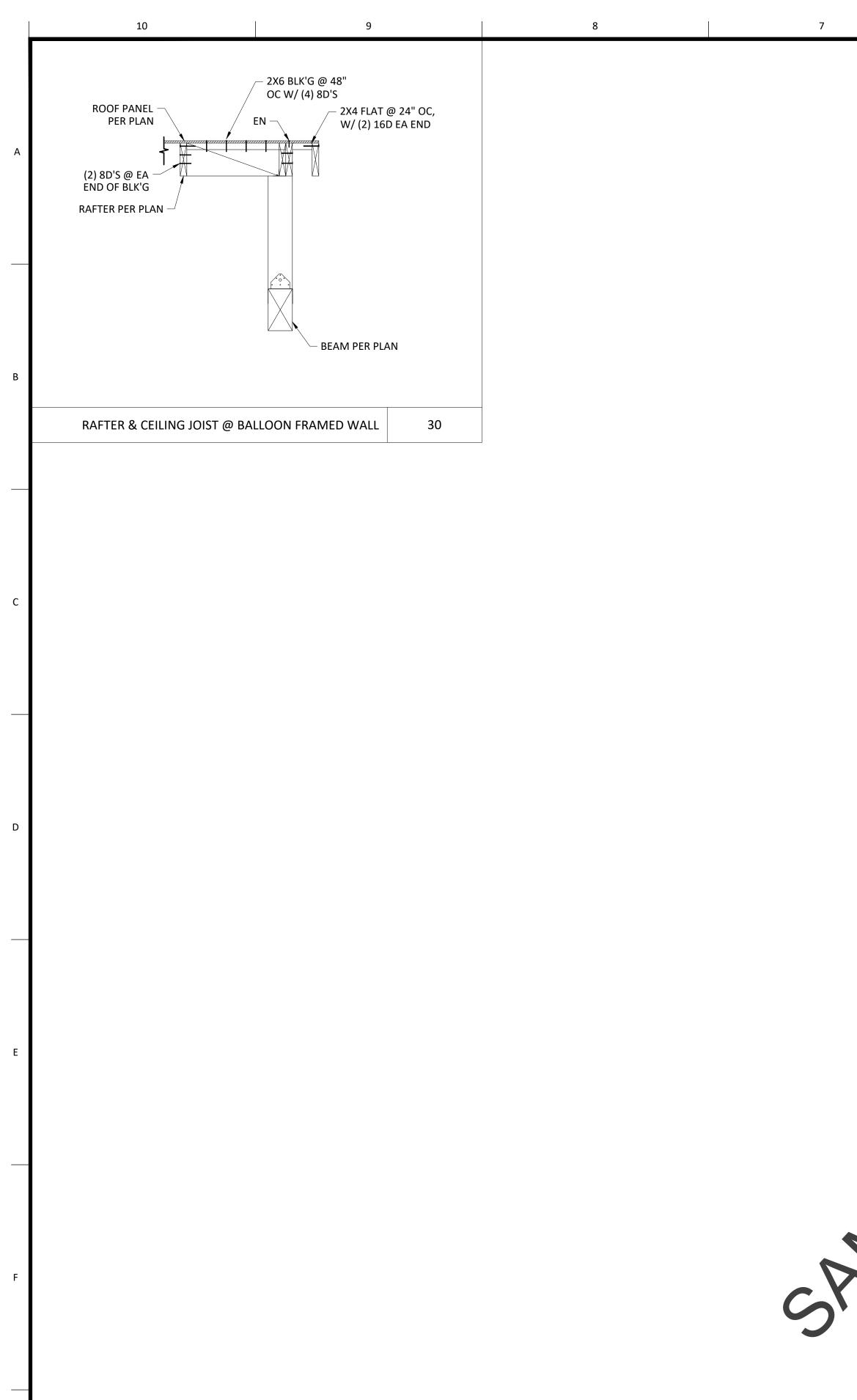
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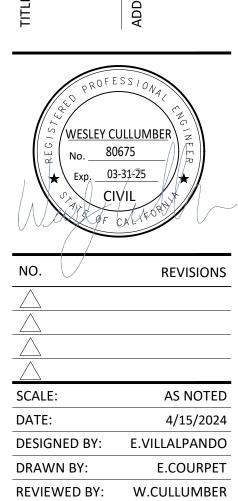
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PERMIT READY ACCESSORY DWELLING UNIT PLANS - MODEL A2

STRUCTURAL DETAILS



SHEET NO.

JOB NO:

1

2

SD3

RN101022

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name Model A with Gable Roof

Run Title Title 24 Analysis

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 (ft²)

Existing Cond. Floor Area (ft²) ^{n/a}

Total Cond. Floor Area (ft²) 460

ADU Bedroom Count n/a

Building Complies with Computer Performance

Project Location Model A with Gable Roof

City Sacramento County

Project Name: Model A with Gable Roof

Calculation Description: Title 24 Analysis

GENERAL INFORMATION

01

02

03

04

06

08

10

12

14

16

18

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22

COMPLIANCE RESULTS

01

02

03

Calculation Date/Time: 2023-08-23T09:02:16-07:00 Input File Name: Model A ADU with Gable Roof Sacramento.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 (%) 28.79%

Software Version EnergyPro 9.2

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

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Calculat
r
ENERGY

1	ENERG
2	
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9	10000 0

Registration Nu	
	223-P010105626A-000-000-0000000-0000
CA Building Ene	ergy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Registration Date/Time: 2023-08-23 11:04:45 Report Version: 2022.0.000 Schema Version: rev 20220901

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23

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.

1

HERS Provider:

CalCERTS inc. Report Generated: 2023-08-23 09:03:17

CF1R-PRF-01E

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Number:

Calculation Date/Time: 2023-08-23T09:02:16-07:00 (Page 4 of 12) Project Name: Model A with Gable Roof Input File Name: Model A ADU with Gable Roof Sacramento.ribd22x Calculation Description: Title 24 Analysis ENERGY USE SUMMARY Standard Design Source Standard Design TDV Energy Proposed Design Source Proposed Design TDV Energy Compliance Compliance Energy Use Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr)
 Energy (EDR1) (kBtu/ft² -yr)
 (EDR2) (kTDV/ft² -yr)
 Margin (EDR1)
 Margin (EDR2)
 27.22 0.01 -3.02 Space Heating 3.99 3.98 30.24 Space Cooling 1.55 40.23 1.11 34.84 0.44 5.39 5.13 IAQ Ventilation 0.48 5.13 0.48 0 0 51.13 37.25 Water Heating 4.86 3.23 1.63 13.88 Self Utilization/Flexibility 0 Credit South Facing 10.88 **Efficiency Compliance** 123.71 8.8 107.46 2.08 16.25 Total DTC 3.99 27.22 31.84 -0.17 Space Heating 4.16 -4.62 Space Cooling 1.55 40.23 42.86 0.16 -2.63 ______1.39 IAQ Ventilation 0.48 5.13 0.48 5.13 0 0 4.86 51.13 3.23 37.22 1.63 13.91 Water Heating Self Utilization/Flexibility 0 Credit West Facing Efficiency 10.88 123.71 9.26 117.05 1.62 6.66 **Compliance Total**



Registration Number: 223-P010105626A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-08-23 11:04:45 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2023-08-23 09:03:17

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model A with Gable Roof

Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-08-23T09:02:16-07:00 Input File Name: Model A ADU with Gable Roof Sacramento.ribd22x CF1R-PRF-01E (Page 2 of 12)

		Energy Design Ratings			Compliance Margins	
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
Standard Design	36.5	31.9	49.1		•	
	•	Proposed	Design			
North Facing	33.8	28	46.6	2.7	3.9	2.5
East Facing	34.2	29.4	47.5	2.3	2.5	1.6
South Facing	33.7	27.7	46.4	2.8	4.2	2.7
West Facing	34.3	30.2	48	2.2	1.7	1.1

¹Efficiency EDR includes improvements like a better building envelope and more efficient equipment ²Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries ³Building 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: 0.00 kWdc

Proposed PV Capacity Scaling: North (0.00 kWdc) East (0.00 kWdc) South (0.00 kWdc) West (0.00 kWdc)

Registration Number:

223-P010105626A-000-000-0000000-0000

Registration Date/Time: 2023-08-23 11:04:45 Report Version: 2022.0.000 Schema Version: rev 20220901



CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Model A with Gable Roof

Calculation Description: Title 24 Analysis

Calculation Date/ Time: 2023-08-23T09:02:16-07:00 ADU with Gable Roof Sacramento.ribd22x

(Page 5 of 12)

	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage
North Facing	. .		ton to	
Gross EUI ¹	36.5	33,86	2.64	7.23
Net EUI ²	36.5	33.86	2.64	7.23
East Facing	X			
Gross EUI ¹	36.5	34.37	2.13	5.84
Net EUI ²	36.5	34.37	2.13	5.84
South Facing				
Gross EUI ¹	36.5	33.76	2.74	7.51
Net EUI ²	365	33.76	2.74	7.51
West Facing	HE	RS PROV	TDER	
Gross EUI ¹	36.5	34.51	1.99	5.45
Net EUI ²	36.5	34.51	1.99	5.45
Notes 1. Gross EUI is Energy Use Total 2. Net EUI is Energy Use Total Une	ot including PV) / Total Building Area. cluding PV) / Total Building Area.		•	

CF1R-PRF-01E

Project Name: Model A with Gable Roof Calculation Description: Title 24 Analysis

REQUIRED PV SYS	TEMS	
01	02	
DC System Size (kWdc)	Exception	on
0		
REQUIRED SPECIA	L FEATURES	
The following are	features that n	nust be
• Variable ca	on 2: No PV req pacity heat pur Energy Efficien	np con
HERS FEATURE SU	MMARY	-
The following is a detail is provided		
 Kitchen ran Verified Ref Airflow in h Verified hea Wall-mount 	uality ventilati ge hood frigerant Charg abitable room at pump rated ted thermostat door units loca	e s (SC3. heating t in zon
		TION
01		
Project N	lame	Cond
Model A with (Gable Roof	
Ductless ind BUILDING - FEATU 01 Project N	door units loca JRES INFORMA Jame	ted er

223-P010105626A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-08-23 11:04:45 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2023-08-23 09:03:17

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Number:

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Model A with Gable Roof Calculation Description: Title 24 Analysis

ENERGY USE SUMMARY

Energy Use

Space Heating

Space Cooling

IAQ Ventilation

Water Heating

Self Utilization/Flexibility

Credit

North Facing

Total

tion/Flexibility

Credit

East Facing Efficiency

Compliance Total

Space Heat

Efficiency Compliance

Calculation Date/Time: 2023-08-23T09:02:16-07:00 Input File Name: Model A ADU with Gable Roof Sacramento.ribd22x

Standard Design TDV Energy Proposed Design Source Standard Design Source Proposed Design TDV Energy Compliance Compliance Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Margin (EDR1) Margin (EDR2) 3.99 27.22 4.16 31.83 -0.17 -4.61 1.55 40.23 1.07 34.13 0.48 6.1 0.48 5.13 0.48 5.13 0 0 4.86 51.13 3.23 37.29 1.63 13.84 10.88 123.71 108.38 1.94 15.33 8.94 -3.99 27.22 4.18 31.7 -0.19 -4.48 40.23 1.3 1.55 39.92 0.25 0.31 0.48 5.13 5.13 0.48 0 51.13 3.23 37.22 13.91 4.86 1.63 0 10.88 123.71 9.19 113.97 1.69 9.74

223-P010105626A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: 2023-08-23 11:04:45 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider:

CalCERTS inc. Report Generated: 2023-08-23 09:03:17

CF1R-PRF-01E

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Calculation Date/Time: 2023-08-23T09:02:16-07:00 (Page 6 of 12) Input File Name: Model A ADU with Gable Roof Sacramento.ribd22x

	12						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	n/a	n/a	n/a	n/a	n/a	

ust be installed as condition for meeting the modeled energy performance for this computer analysis. uired when mini<mark>m</mark>um PV size (Section 150.1(c)14) < 1.8 kWdc (0 kW) p compliance o<mark>pti</mark>on (verification details from VCHP Staff report, Appendix B, and RA3) y Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

e features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional ables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

HERS PROVIDER

s (SC3.1.4.1.7) eating capacity in zones greater than 150 ft2 (SC3.4.5) ed entirely in conditioned space (SC3.1.4.1.8)

02	03	04	05	06	07
Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
460	1	1	1	0	1

223-P010105626A-000-000-0000000-0000

Registration Date/Time: 2023-08-23 11:04:45 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider:

CalCERTS inc. Report Generated: 2023-08-23 09:03:17

<u>compucalc@title24energyreports.com</u> title24energyreports.com (530) 268-8722	
Title 24 Part 6 Energy Services Elizabeth Smithwick Certified Energy Analyst R19-94-30006	
2022 Title 24 Part 6 Energy Code	
Sheet: T24-1	1

CF1R-PRF-01E (Page 3 of 12)

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

03

HVAC System Name

Res HVAC1

03

Construction

R-21 Wall

R-21 Wall

R-21 Wall

R-21 Wall

R-38 Roof Attic

Туре

Ventilated

04

Orientation

Front

Front

Front

03

05

Azimuth

0

0

0

04

Zone Floor Area (ft²)

460

05

Orientation

Front

Back

Right

Left

0.1

Area (ft²)

16

10

1 20.1

04

Azimuth

0

180

270

90

5

n/a n/a

04 P 05 V

06 07 08 09

1

1

Registration Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220901

Width Height (ft) (ft) Mult.

Roof Rise (x in 12) Roof Reflectance

02

Zone Type

Conditioned

02

Zone

ADU

ADU

ADU

ADU

02

Construction

Attic RoofADU

03

Surface

Front Wall

Front Wall

Front Wall

223-P010105626A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

ADU

Project Name: Model A with Gable Roof

Calculation Description: Title 24 Analysis

ZONE INFORMATION

01 Zone Name

ADU

OPAQUE SURFACES 01

Name

Front Wall

Back Wall

Right Wall

Left Wall

Attic

01

Name

Attic ADU

01

Name

F1 WA

F2 WB SL

F3 D1

Registration Number:

FENESTRATION / GLAZING

02

Туре

Window

Window

Window

ATTIC

Calculation Date/Time: 2023-08-23T09:02:16-07:00 Input File Name: Model A ADU with Gable Roof Sacramento.ribd22x

06

Gross Area (ft²)

192

192

153

153

460

10

U-factor

0.3

0.3

0.3

2023-08-23 11:04:45

Roof Emittance

0.85

11

U-factor Source

NFRC

NFRC

NFRC

06

Water Heating System 1

DHW Sys 1

07

Window and Door

Area (ft2)

62.1

40.1

13.5

16.75

n/a

07

Radiant Barrier

No

13

NFRC

NFRC

NFRC

Report Generated: 2023-08-23 09:03:17

12

SHGC

0.23

0.23

0.23

HERS Provider:

05

Avg. Ceiling Height

8

CF1R-PRF-01E (Page 7 of 12)

07

Status

New

08

Tilt (deg)

90

90

90

90

n/a

08

Cool Roof

No

SHGC Source Exterior Shading

14

Bug Screen

Bug Screen

Bug Screen

CalCERTS inc.

N	
F4	100
В	
B	
R1 (
R2 (
L:	0

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Model A with Gable Roof Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-08-23T09:02:16-07:00 Input File Name: Model A ADU with Gable Roof Sacramento.ribd22x

CF1R-PRF-01E (Page 10 of 12)

01	03	2	03	04	05		06	07
Name	Pipe Ins	ulation Pa	rallel Piping	Compact Distribution	Compact Distrib Type	ution Recircu	lation Control	nower Drain Water Hea Recovery
DHW Sys 1 - 1/	1 Not Ree	quired N	ot Required	Not Required	None	Not	Required	Not Required
ACE CONDITIONI	NG SYSTEMS	Net in the		~ ~ ~ ~				
01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Nar	ne Required Thermostat Type
Res HVAC1	Heat pump heating cooling	Hea <mark>t Pu</mark> mp System	1	Heat Pump System 1	1	n/a	n/a	Setback

01	02	03	04	05	06	07	08	09	10	11	12	13
				Heati	ng			Cooling				
Name	System Type	Number of Units	Efficiency Type	HSPF / HSPF2 / COP	Cap 47	Cap 17	Efficiency Type	SEER / SEER2	EER / EER / CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHP-ductless	1	HSPF2	7.5	10900	6700	EER2SEER2	14.3	9	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump

HVAC HEAT PUMPS -	HERS VERIFICATION							
01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

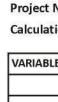
Registration Number: 223-P010105626A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: 2023-08-23 11:04:45 Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CalCERTS inc. Report Generated: 2023-08-23 09:03:17



INDOOR





culation Descr	iption: Title	e 24 Analysis					Input Fi	ile Name: M	odel A AD	U with Gabl	e Roof Sacram	ento.ribd22x		Calculation Description				Input Fil	e Name: Moo	del A ADO with G	able Rool 3	Sacramento.ribd22	79/78
ESTRATION / GI												220		01	02	03	04		05	06	07		08
01	02	03	04	05	06 Width	07 Height	08	09 Area	10	11 U-factor	12	13	14	Construction Name	Surface Type	Construction Type	Frami	ng	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assem	ibly Layers
Name	Туре	Surface	Orientation	Azimuth	(ft)	(ft)	Mult.	(ft²)	l-factor	Source	SHGC	SHGC Source	Exterior Shading							n-value			oof (Asphalt Shingle
F4 WA B1 D6	Window Window	Front Wall Back Wall	Front Back	180			1	16 20.1	0.3	NFRC	0.23	NFRC	Bug Screen Bug Screen	Attic RoofADU	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 i	n. O. C.	R-0	None / 0	0.644	Siding/she	eck: Wood athing/decking
B2 WE	Window	Back Wall	Back	180			1	20	0.3	NFRC	0.23	NFRC	Bug Screen										ne: no insul. / 2x4 oists: R-28.9 insul.
1 (3) WD	Window	Right Wall	Right	270			1	6.75	0.3	NFRC	0.23	NFRC	Bug Screen	R-38 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 i	n. O. C.	R-38	None / None	0.025	Cavity / Fra	ime: R-9.1 / 2x4 n: Gypsum Board
2 (3) WD	Window	Right Wall	Right	270			1	6.75	0.3	NFRC	0.23	NFRC	Bug Screen	BUILDING ENVELOPE - HE	ERS VERIFICATION	A			1				
L1 WC	Window	Left Wall	Left	90			1	12.25	0.3	NFRC	0.23	NFRC	Bug Screen	01		02		03		04			05
L2 WF	Window	Left Wall	Left	90	10	E		4.5	0.3	NFRC	0.23	NFRC	Bug Screen	Quality Insulation Instal		value Spray Foam Insula		N/A	акаде	CFM50 n/a	_	-	CFM50 n/a
FLOORS 01		02	03					05		- 060	07	7	08	WATER HEATING SYSTEM		H	ERS				0		(17)A200.04
Name	_	Zone	Area (ft ²)	HE	Perimete	r (ft)	a Photo I which the Decision	05 nsul. R-value		06 nsul. R-value			Heated	01	02	03	04	05	06		07	08	09
Slab-on-Grade	_	ADU	460		86	. (,	ar	nd Depth	ar	nd Depth	805	1200	No	Name	System Type Dis	tribution Type Water	Heater Name Nu	mber of Units	Solar Hea Syster		npact ibution	HERS Verification	Water Heate Name (#)
			100					lione		0					Domestic Hot	Standard DHV	V Heater 1	1	n/a		one	n/a	DHW Heater 1 (
QUE SURFACE (02	03			04		05	0	6	07	08			Water (DHW)	- 3 5 x 3 5 x 3 7 5 x 6 2 8 6 7 5 1	 Directory (Contraction) and 	1024a)	94054-5550		NEW CONCIDENCE	00007-0004	
nstruction Na	me	Surface Type	Construction	n Type	Fr	aming		Total Cavity R-value	Conti		J-factor	Assembly	Layers	WATER HEATERS - NEEA H	HEAT PUMP 02	03	04		05	06		07	08
									R-va	alue	8	Inside Finish: Gy	/psum Board	Name	# of Units	Tank Vol. (gal)	NEEA Heat Pun Brand	np NEEA	Heat Pump Model	Tank Location	n Duc		Duct Outlet Air Sou
R-21 Wall	E	Exterior Walls	Wood Frame	ed Wall	2x6 @	16 in. O. C		R-21	None /	/ None	0.068	Cavity / Frame: Exterior Finish: Al	: R-21/2x6	DHW Heater 1	1	40	Generic		Generic40	Outside		ADU	ADU
											5												
ect Name: Mo	odel A with		L PERFORMAN	CE COMPLI	ANCE MI			tion Date/ N					CF1R-PRF-01E (Page 11 of 12)			TIAL PERFORMANCE (COMPLIANCE ME		lation Date/1	Time: 2023-08-23	T09:02:16-	07:00	
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ect Name: Mo Ilation Descr ABLE CAPACIT 01	odel A with iption: Title Y HEAT PUMI	Gable Roof 24 Analysis P COMPLIANCE C 02 Certified	OPTION - HERS V 03 Airflow t	ERIFICATION	04 less Units	05	Input Fi	ile Name: M 06 Air Filter Siz	ng Low	U with Gabl	e Roof Sacram 08 Minimum Airflow per	09 Certified	(Page 11 of 12)	Project Name: Mode Calculation Descript DOCUMENTATION AU 1. I certify that this Cer Documentation Author Na	el A with Gable Roof ion: Title 24 Analysis THOR'S DECLARATION rtificate of Compliance of			Calcul Input		Model A ADU with	n Gable Roo		(Page 12
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ect Name: Mo Ilation Descr ABLE CAPACIT 01 Name Heat Pump S	odel A with iption: Title Y HEAT PUMI P System 1	Gable Roof 24 Analysis P COMPLIANCE C 02 Certified Low-Static VCHP System	DPTION - HERS V 03 Airflow t Habitabi m Rooms	ERIFICATION to Ductl le in Cor S	04 O4 Iess Units nditioned	05	Input Fi	ile Name: M 06 Air Vilter Siz & Press	ng Low ure g Con	U with Gabl	e Roof Sacram 08 Minimum Airflow per RA3.3 and	09 Certified non-continuou	(Page 11 of 12)	Project Name: Mode Calculation Descript DOCUMENTATION AU 1. I certify that this Cer Documentation Author Na Jeff Travis Company: CompuCalc Address:	el A with Gable Roof ion: Title 24 Analysis THOR'S DECLARATION 'tificate of Compliance o ame:	STATEMENT		Calcul Input Docume Signatu 2023 CEA/ Hi	File Name: N entation Author re Date: 3-08-23 10:4 ERS Certification	Vodel A ADU with Signature:	Travis	of Sacramento.ribo	(Page 12 J22x
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ect Name: Mo ulation Descr ABLE CAPACIT 01 Name Heat Pump S DOR AIR QUALI 01 welling Unit	odel A with iption: Title Y HEAT PUMI P System 1 TY (IAQ) FAN 0: Airflow	Gable Roof 24 Analysis P COMPLIANCE C 02 Certified Low-Static VCHP System Not require NS 2 v (CFM)	DPTION - HERS V 03 Airflow t Habitabl Rooms d Required 03 an Efficacy (W/CFM)	ERIFICATION to Ductl le in Cor S	04 less Units nditioned Space	05 Mail IV Therm Requ 05 Inclu Heat/E Recov	Input Fi	ile Name: M 06 Air Filter Siz & Press Drop Ratin Not require 0 IAQ Re Effectiven	ng Low D Con g d Not	U with Gabl 07 Leakage ucts in ditioned Space required 07 Includes Indicator D	e Roof Sacram 08 Minimum Airflow per RA3.3 and SC3.3.3.4.1 Not required Fault isplay? HERS	09 Certified non-continuou Fan Not required	(Page 11 of 12)	Project Name: Mode Calculation Descript DOCUMENTATION AU 1. I certify that this Cer Documentation Author Na Jeff Travis Company: CompuCalc Address: 5201 Coventry Dr City/State/Zip: Riverside, CA 925 RESPONSIBLE PERSON I certify the following und	el A with Gable Roof ion: Title 24 Analysis THOR'S DECLARATION tificate of Compliance of ame: , 506 'S DECLARATION STATE ler penalty of perjury, und	STATEMENT documentation is accura	te and complete.	Calcul Input Docume Signatu 2023 CEA/ HI R19- Phone: 951-	File Name: N entation Author re Date: 3-08-23 10:4 ERS Certification -22-30127 902-2660	Vodel A ADU with Signature: Jeff 41:57	Travis	of Sacramento.ribo	(Page 12)
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	Signature Date: 2023-08-23 10:41:57
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	Phone: 951-902-2660
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rjury, under <mark>the la</mark> ws of the State of Califo	rnia:
of the Busin <mark>es</mark> s a <mark>nd</mark> Professions Code to a	ccept responsibility for the building design identified on this Certificate of Compliance.
or system design features identified on thi	fied on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. s Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, ency for approval with this building permit application.

	Responsible Designer Signature: laura miller
HERS P	Date Signed: 2023-08-23 11:04:45
	License: NA
	Phone: 916-607-3321



<u>compucalc@title24energyreports.com</u> title24energyreports.com (530) 268-8722	
Title 24 Part 6 Energy Services Elizabeth Smithwick Certified Energy Analyst R19-94-30006	
2022 Title 24 Part 6 Energy Code	
Sheet: T24-2	



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

(04/2022)	espective section for more information.
uilding 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):	Roof Deck, Ceiling and Rafter Roof Insulation. 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.*
eplaces, Decora	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:	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and 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.*
ace Conditionir	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:	Isolation Valves. 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

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

This compliance report shows use of a Variable Capacity Heat



2022 Single-Family Residential Mandatory Requirements Summary





2022 Single-Family Residential Mandatory Requirements Summary

§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and
	spa heaters.
§ 150.0(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(j) 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:	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Pating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing MAPMO R&T), or by a listing agency that is approved by the executive director.
Ducts and Fans:	
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation meets this requirement.
§ 150.0(m) 1:	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 6010-605.0 and ANSTSMACHA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, in aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than ¼", IMmastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in
§ 150.0(m)2:	these spaces must not be compressed. * Factory-Fabricated Duct Systems. Factory-fabricated duct systems must complexith applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed 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 comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for doct construction.
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m) 10:	Porous Inner Core Flex Duct. Porous oner cores of flex 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 Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(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. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m) 12. Filters must be accessible for regular service. Filter racks or guiles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the filter.*



2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(k) 1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 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 o 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 ligh 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 the 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 with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. *
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on 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 b
§ 110.10(d):	provided to the occupant.
§110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pol 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

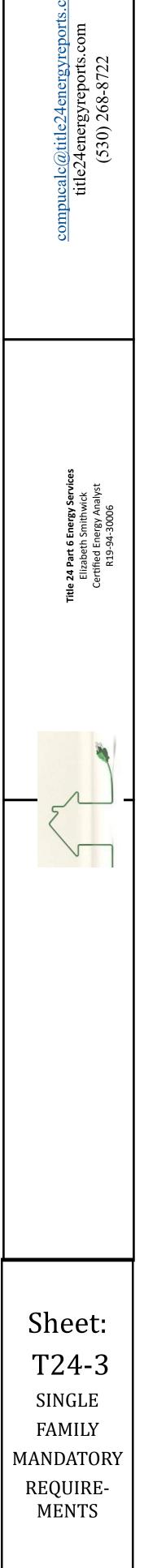
Space Conditioning System Airflow Rate and Fan Efficacy.Space conditioning systems that use ducts to supply cooling must have
a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must
be \geq 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy \leq 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) 1Biii&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	tems 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 hoods) must meet the applicable requirements of § 150.0(k).		

5/6/22

The Course of T	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 race way 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.



From Section 150.0(o) G. Local mechanical exhaust

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

- Nonenclosed kitchens shall have a demand-controlled mechanical exhaust system meeting the requirements of Section 150.0(o)1Giii.
- Enclosed kitchens and all bathrooms shall have either one of the following alternatives a or b: ii. A demand-controlled mechanical exhaust system meeting the requirements of Section a.
- 150.0(o)1Giii. A continuous mechanical exhaust system meeting the requirements of Section
- 150.0(o)1Giv. Demand-controlled mechanical exhaust. A local mechanical exhaust system shall be designed to be operated as needed.
- Control and operation. Demand-controlled mechanical exhaust systems shall be provided with at least one of the following controls: A readily accessible occupant-controlled ON-OFF control.
- An automatic control that does not impede occupant ON control. Ventilation rate and capture efficiency. The system shall meet or exceed either the minimum airflow in accordance with Table 150.0-E or the minimum capture efficiency in accordance with Table 150.0-E, and Table 150.0-G. Capture efficiency ratings shall be determined in accordance with ASTM E3087 and listed in a product directory approved by the Energy Commission.
- Continuous mechanical exhaust. A mechanical exhaust system shall be installed to operate
- continuously. The system may be part of a balanced mechanical ventilation system. Control and operation. A manual ON-OFF control shall be provided for each continuous mechanical exhaust system. The system shall be designed to operate during all occupiable hours.
- The ON-OFF control shall be accessible to the dwelling unit occupant. Ventilation rate. The minimum delivered ventilation shall be at least the amount indicated in Table 150.0-F during each hour of operation.

Airflow measurement of local mechanical exhaust by the system installer. The airflow required by Section 150.0(o)1G is the quantity of indoor air exhausted by the ventilation system as installed in the dwelling unit. When a vented range hood utilizes a capture efficiency rating to demonstrate compliance with Section 150.0(o)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 airflow measuring device at the mechanical ventilation fanâtmes 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 ²)	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.

B.

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 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 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

include the following:

- A dedicated 240 volt branch circuit shall be installed within 3 feet from the designated space. The branch circuit shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready"; and
- The main electrical service panel shall have a reserved space to allow for ii. the installation of a double pole circuit breaker for a future HPWH installation. The reserved space shall be permanently marked as "For Future 240V use"; and
- Either a dedicated cold water supply, or the cold water supply shall pass through the designated HPWH location just before reaching the gas or propane water heater; and The hot water supply pipe coming out of the gas or propane water heater shall be routed
- first through the designated HPWH location before serving any fixtures; and The hot and cold water piping at the designated HPWH location shall be exposed and
- readily accessible for future installation of an HPWH; and A condensate drain that is no more than 2 inches higher than the base of the installed 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
 - 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 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.
- 3. 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.

- Heat pump space heater ready. Systems using gas or propane furnace to serve individual dwelling units shall include the following:
 - A dedicated 240 volt branch circuit wiring shall be installed within 3 feet from the furnace and accessible to the furnace with no obstructions. The branch circuit conductors shall be rated at 30 amps minimum. The blank cover shall be identified as "240V ready." All electrical components shall be installed in accordance with the California Electrical Code.
 - The main electrical service panel shall have a reserved space to allow for the 2. installation of a double pole circuit breaker for a future heat pump space heater installation. The reserved space shall be permanently marked as "For Future 240V use."

Electric cooktop ready. Systems using gas or propane cooktop to serve individual dwelling units (u)

- 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 identified as "240V ready." All electrical components shall be installed in accordance with the California Electrical Code.
 - The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future electric cooktop installation. The reserved space shall be permanently marked as "For Future 240V use."

Electric clothes dryer ready. Clothes dryer locations with gas or propane plumbing to serve (\mathbf{v})

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

110.10(e)

b. Solar zone.

Β.

3.

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 shall be comprised of are as that have no dimension less than five 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 with roof areas greater than 10,000 square feet. Single-family residences. The solar zone shall be located on the roof or overhang of the building and have a total area no less than 250 square feet. Exception 1 to Section 110.10(b)1A. Single-family residences with a permanently installed domestic solar water-heating system meeting the installation criteria specified in the Refer pendix R A4 and with a minimum solar savings fraction of 0.50. ence Residential Exception 2 to Section 11010(b)1A: Single-family residences with three habitable stories or more and with a total floor area less than or equal to 2000 square feet and having a solar zone totalare ess than 150 square feet tion 110.10(b)1A: Single-family residences located in the Wildland-Urban Interface Fire Area as defined in Title 24, Part 2 and having a whole house fan and having a Exception 3 to solar zone total area no less than 150 square feet. m 4 to Section 110.10(b)1A: Buildings with a designated solar zone area that is no less than 50 percent of the potential solar zone area. The potential solar zone area is the total Excepti low-sloped roofs where the annual solar access is 70 percent or greater and any steep-sloped roofs oriented between 90 degrees and 300 degrees of true north here the annual solar access is 70 percent or greater. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstruct ns located on the roof or any other part of the building shall not be included in the determination of annual solar access. ption 5 to Section 110.10(b)1A: Single-family residences having a solar zone total area no less than 150 square feet and where all thermostats are demand responsive controls and comply with Section 110.12(a), and are capable of receiving and responding to Demand Response Signals prior to granting of an occupancy permit by the enforcing agency. Exception 6 to Section 110.10(b)1A: Single-family residences meeting the following conditions: All thermostats are demand responsive controls that comply with Section 110.12(a), and are capable of receiving and responding to Demand Response Signals prior to granting of an occupancy permit by the enforcing agency. Comply with one of the following measures:

- mum of 40 amperes; or
- ii.
- iii.
- the California Plumbing Code and any applicable local ordinances; or
- iv.
- at least 65 percent of the available roof area.
- Shading.
- Α.

 - the vertical plane.

4. Structural design loads on construction documents. For areas of the roof designated as solar zone, the structural design loads for roof dead load and roof live load shall be clearly indi cated on the construction documents. Note: Section 110.10(b)4 does not require the inclusion of any collateral loads for future solar energy systems.

(c) Interconnection pathways.

1.	The construction documents shall indicate a loc
	point of interconnection with the electrical serv
2.	For single-family residences and central water-h
	heating system.

(e) Main electrical service panel.

The main electrical service panel shall have a minimum busbar rating of 200 amps.

The main electrical service panel shall have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space shall be permanently marked as "For Future Solar Electric"

Exception 2 to Section 150.1(c)14: No PV system is required when the minimum PV system size specified by section 150.1(c)14 is less than 1.8 kWdc.

Prescriptive Equation for PV Exemption: $460 \times 0.613/1000 + 1 \times 1.4 = 1.68$

SECTION 110.10 – MANDATORY REQUIREMENTS FOR SOLAR READINESS (Fron Section 110.10 of the 2022 Building Energy Efficiency Standards)

a. Single-family residences. Single-family residences located in subdivisions with ten or more single-family residences and where the application for a tentative subdivision map for the residencees has been deemed complete or approved by the enforcement agency, which do not have a photovoltaic system installed, shall comply with the requirements of Sections 110.10(b) through

Minimum solar zone area. The solar zone shall have a minimum total area as described below. The solar zone shall comply with access, pathway, smoke ventilation, and spacing

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Sheet:

T24-4

PV & ESS

READY-

NOTES

Install a dishwasher that meets or exceeds the ENERGY STAR® Program requirements with a refrigerator that meets or exceeds the ENERGY STAR Program require ments, a whole house fan driven by an electronically commutated motor, or an SAE J1772 Level 2 Electric Vehicle Supply Equipment (EVSE or EV charger) with a mini

Install a home automation system capable of, at a minimum, controlling the appliances and lighting of the dwelling and responding to demand response signals; or Install alternative plumbing piping to permit the discharge from the clothes washer and all showers and bathtubs to be used for an irrigation system in compliance with

Install a rainwater catchment system designed to comply with the California Plumbing Code and any applicable local ordinances, and that uses rainwater flowing from

Azimuth range. All sections of the solar zone located on steep-sloped roofs shall have an azimuth range between 90 degrees and 300 degrees of true north.

No obstructions, including but not limited to, vents, chimneys, architectural features and roof mounted equipment, shall be located in the solar zone. Any obstruction, located on the roof or any other part of the building that projects above a solar zone shall be located at least twice the distance, measured in the hori zontal plane, 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

Exception to Section 110.10(b)3: Any roof obstruction, located on the roof or any other part of the building, that is oriented north of all points on the solar zone.

cation reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the vice.

-heating systems, the construction documents shall indicate a pathway for routing of plumbing from the solar zone to the water-

(d) Documentation. A copy of the construction documents or a comparable document indicating the information from Sections 110.10(b) through 110.10(c) shall be provided to the occupant.