VICINITY MAP



SCOPE OF WORK

THE EXISTING SITE HAS A SINGLE FAMILY HOUSE ORIGINALLY BUILT IN 1951, WITH ADDITIONS IN 1981 AND 1987. THE HOUSE IS 1-STORY, MEASURING APPROXIMATELY 15'-6" IN HEIGHT.

ACCESSORY STRUCTURES ON THE SITE INCLUDE: A DETACHED TWO-CAR GARAGE BUILT IN 1979, AN ACCESSORY STUDIO BUILT IN 1991, AND A WORKSHOP/SHED. A LEGAL, BUT NON-CONFORMING COVERED PORCH EXISTS TO THE NORTHWEST OF THE MAIN HOUSE.

THE PROPOSED SCOPE OF WORK INCLUDES:

- DEMOLITION OF EXISTING 2-CAR GARAGE, ACCESSORY BUILDING, WORKSHOP/SHED, AND COVERED PORCH
- CONSTRUCTION OF A NEW DRIVEWAY TO CONFORM TO CITY PARKING DESIGN STANDARDS
- RENOVATION OF THE EXISTING SINGLE FAMILY HOUSE
- CONSTRUCTION OF A 2-STORY, ~1,900 SF (NET) ADDITION TO THE EXISTING SINGLE FAMILY HOUSE
- PLACEMENT OF A SMALL PREFABRICATED SHED IN THE REAR YARD (NO PERMIT REQ'D PER §22.04.020.A.1; NO EFFECT ON F.A.R. PER §30.15.070.B.5)
 EXEMPTION REQUEST FOR 2 LINEOVERED RARKING SPACES PER
- EXEMPTION REQUEST FOR 2 UNCOVERED PARKING SPACES PER §30.175.030.N.1.a.ii.
- REPLACEMENT OF FAILING 6' TALL WD FENCE AT NORTH REAR LOT LINE.
- CONSTRUCTION OF <6'STONE SITE WALL ADJ. TO (N) DRIVEWAY.
 THE PROJECT FALLS UNDER TITLE 30 ZONING INLAND.

NOTE: ALL PLANTINGS IN THE PUBLIC R.O.W. TO BE REDUCED AND MAINTAINED NOT TO EXCEED 8" IN HEIGHT.

PROJECT DATA

PROJECT ADDRESS

APN

ZONE (TITLE 30, INLAND)

GENERAL PLAN NEIGHBORHOOD

LAND USE DESIGNATION

LOT SIZE

SLOPE

HIGH FIRE HAZARD AREA

SPECIAL DESIGN DISTRICT

HISTORIC DESIGNATION

CONSTRUCTION TYPE

GRADING (EST.)

STORMWATER MANAGEMENT

FIRE SPRINKLER SYSTEM (SUBMIT UNDER SEPARATE PERMIT) 313 VISTA DE LA CUMBRE SANTA BARBARA, CA 93105

053-084-008

RS-7.5

EAST SAN ROQUE

LOW DENSITY RESIDENTIAL

0.34 ACRE / 14,897 SF

9.8%

NO

NO

NO

V-B

CUT: 152 CY FILL: 57 CY IMPORT: 0 CY EXPORT: 95 CY

TIER 3

AUTOMATIC SYSTEM REQUIRED THROUGHOUT PER MC 22.04 §R313.2.3

LOT COVERAGE

LOT AREA

BUILDING FOOTPRIN

MAIN RESIDENCE DETACHED GARAGE ACCESSORY STUDIO & COVERED DECK WORKSHOP/SHED **TOTAL**

HARDSCAPE

CONCRETE DRIVE/WALI BRICK PATIO EXTERIOR STAIRS **TOTAL**

PERMEABLE HARDSC

CONCRETE PAVERS HEXPAVE GRAVEL DRIV **TOTAL**

BUILDING A

MAIN RESIDENCE

FIRST FLOOR (GROSS) SECOND FLOOR (GROS **TOTAL**

ACCESSORY BUILDIN

DETACHED GARAGE ACCESSORY STUDIO COVERED DECK WORKSHOP/SHED **TOTAL**

GROSS AREAS TOTA

MAIN RESIDENCE FIRST FLOOR (NET) SECOND FLOOR (NET) TOTAL

ACCESSORY BUILDIN

DETACHED GARAGE ACCESSORY STUDIO WORKSHOP/SHED **TOTAL**

NET AREAS TOTAL

BUILDING &

MAIN RESIDENCE

FIRST FLOOR

- BEDROOMS
- BATHROOMS
- SECOND FLOOR
- BEDROOMS
- BATHROOMS

ACCESSORY STUDIO FIRST FLOOR

- BEDROOMS
- BATHROOMS

PARKING

REQUIRED PROVIDED

PROJECT DIRECTORY

	14,897 SF / 100%	14,897 SF / 100%	OW	NER	JUL	
	EVISTING)			
NI	EXISTING	PROPOSED	2		SAI	NIA BAR
	1,631 GSF / 10.9%	2,559 GSF / 17.2%)		+1	(408) 206
	452 GSF / 3.0%		5		SCO	ttiwashita
PORCH	716 GSF / 4.8%		(
	237 SF / 1.6%		DES	GNER	AN	DREW B
	255 GSF / 1.7%)		+1	(541) 510
	3,291 GSF / 22.1% (2,559 GSF / 17.2%	5		and	rew@all-
	,	,	(
	FXISTING	PROPOSED	(A I I	
KC)			
_KS	1,181 SF / 7.9%	1,310 SF / 8.8%)		+1	(408) 206
	89 SF / 0.6%		(ali@	Jall-blosso
		184 SF / 1.2%	(
	1,181 SF / 8.5%	1,494 SF / 10.0%	SUR	VEYOR	\bigvee	N SURVE
	()		172	7 STATE
CAPE	EXISTING	PROPOSED	5		SAI	NTA BAR
	855 SF / 5.7%		(+1	(805) 681
ΈΛΛ/ΔΙΚς		3 526 SE / 23 7%	2			(000) 001
	055 SE / 5 7%	2 574 SE / 22 7%				
	033 SF / 3.1 /0	3,320 SF / 23.1 /0	SOIL	.3 EINGIINEEK	PAC	
			(35-,	A SOUT
			(P.O	. BOX 96
INEAS)		GC	LETA, CA
			5		+1	(805)-964
	EXISTING	PROPOSED	(
	1.631 GSF	2.559 GSF		JCTURAL ENGINEER	KE	VIN L. VA
(22	26 GSE	1.261 GSE)		250	
55))		230	
	1,057 GSF	3,820 GSF	(GC	(a a f) f (a a f)
			(+1	(805) 562
NGS	EXISTING	PROPOSED)			
	452 GSF			NTRACTOR	TBI	С
	541 GSF		5			
	237 GSF		(
	255 GSF		2			
	1.485 GSF	0 NET SF)			
	.,		5			
	3 142 CSE	3 920 CSE	(
	3,142 G3F	5,020 GSF	$\left(\right)$		$\sim\sim$	\sim
			$\sum_{i=1}^{n}$	ΓΔI	R Calci	Ilator
	EXISTING	PROPOSED) (Instructions: Enter the information in the white boxes below.	The spreadsheet will calc	ulate the proposed
	1,470 NET SF	2,318 NET SF	\mathbf{S}	the Zoning Ordinance for "Required FAR"), and the 85% max FAR Modification is required. "Guideline FAR" calculations are	FAR (per the Zoning Ordina e as outlined in the "Applica	ance for "Required ability" section of th
	26 NET SF	1,059 NET SF	()	The Net Lot Area does not include any Public Road Easem	<u>page 23-C.</u> ents or Public Road Right-(<u>of-Way areas. The</u>
	1,496 NET SF	3,377 NET SF	$\langle \rangle$	include the net floor area of all stories of all building, but may please refer to SBMC §28.15.083 & 30.300. This form ha	v or may not include basem is not yet been updated for	ent/cellar floor area current Title 30 zo
	() (313
NGS	EXISTING	PROPOSED	(
	419 NET SF		$\langle \rangle$	Is there a basement or cellar existing	g or proposed?	
	473 NIFT SF)	()	ENTER Proposed TOTAL Net FAR Floor	Area (in sq. ft.):	
	105 NET SE		$\sum_{i=1}^{n}$		dueus desus liets	
) (
	997 NET SF	UNET SF	$\langle \rangle$	ENTER Net Lot	Area (in sq. π .):	
			()	is the height of existing or proposed b	or greater?	
	2,493 NET SF	3,377 NET SF	25	Are existing or proposed building	s two stories or	
	($\sim\sim\sim\sim$) (The FAR Requirements are	e.	
k SITE I	USES	4	F (·	
				ENTER Averaç	Je Slope of Lot:	
			<u> </u>	Does the height of existing or prop	osed buildings exceed 25 feet?	
	EXISTING	PROPOSED	(Is the site in the Hillside D	esign District?	
			(Does the project include 500 or n	nore cu. yds. of	
	3	1)	grading outside the main buil	ding footprint?	
	2	3		An FAR MOD is not re	aquired per SBM	C §28.15 or
			(FLOOR ARE	A RATIO (FAR):	
		3	(I	_ot Size Range:	10
		- 7)	MAX FAR Calcula	ation (in sq. ft.):	2,500 + (
)	1	00% MAX FAR:	
			(100% MAX	FAR (in sq. ft.):	
	EXISTING	PROPOSED	(85% of MAX	FAR (in sa. ft.):	
)	80% of MAX	FAR (in sq. ft):	
)	The 3377 square foot	proposed total is	78% of the
	1		ς	* NOTE: Percentage total is rounded up		
			(** <u>NOTE:</u> If your project is located on a site with multiple of are "Required" or "Guideline"	r overlay zones, please co	ontact Planning S
	EXISTING	PROPOSED	- 2	are required of Guideline .		
)	Acrea	ige Conversion Calc	ulator
		2 COVERED	(ENTER Acreage to Convert to s	auare footage:	

2 COVERED 2 COVERED

2 COVERED 2 UNCOVERED PROVIDED PER §30.175.030.N.1.a.ii.

CODE COMPLIANCE

OTT IWASHITA DE LA CUMBRE RBARA, CA 93105 6-6826 a@yahoo.com

BLUMM 0-2808 -blossoms.com

YO BLUMM 6-1869 oms.com

/EYING, INC. E ST, SUITE 25 RBARA, CA 93101 81-1615

ATERIALS LAB, INC. FH LA PATERA LN. 96

CA 93116 64-6901

ANDERVORT KE RD, SUITE 12 CA 93117 62-8462

~~~~~~	$\gamma$
•	7)
d FAR (floor area ratio), the 100% max FAR (per d FAR"). Additionally it will determine whether a he Single Family Residence Design Guidelines,	
e proposed <b>TOTAL Net FAR Floor Area</b> shall ea. For further clarification on these definitions one designations, see SBMC §30.05.010 for	8
3 Vista de la Cumbre	1
Νο	12
3,377	2
E-3 or RS-7.5	1
14,897	12
Yes	)
Yes	)
REQUIRED**	)
9.80%	)
Yes	)
No	)
Νο	
§30.20.030	
0.227	
),000 - 14,999 sq. ft.	5
(0.125 x lot size in sq. ft.)	(
0.293	(
4,362	17
3,708	
3,490	
MAX FAR.*	\$
Staff to confirm whether the FAR limitations	\$
0.34	{
14897	(
Revised March 21, 2022	(
	)
	_
$\sim\sim\sim\sim$	し

Net Lot Area (in sq. ft.):

n Folders/PLAN/Handouts/Official Handouts/Design Review/FAR_Calculator xls

ALL WORK AND MATERIAL SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

2022 CALIFORNIA BUILDING STANDARDS CODE

- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2022 CALIFORNIA RESIDENTIAL CODE
- 2022 CALIFORNIA ENERGY CODE
- CALIFORNIA STATE CODE
- CALIFORNIA FIRE CODE
- SANTA BARBARA COUNTY GRADING CODE
- ALL APPLICABLE CODES & ORDINANCES FROM THE RELEVANT AUTHORITIES
   HAVING JURISDICTION

## SHEET INDEX

G0.1	TITLE SHEET
G0.2	NOTES, SYMBOLS, AND LEGENDS
G0.3	CGBS SHEET 1
G0.4	CGBS SHEET 2
G0.5	EXISTING PHOTOS
G0.6	Context photos
G0.7	Context photos (cont.)
G1.1	SITE SURVEY
G1.2	SITE SURVEY ADDENDUM
A1.1	SITE PLANS
A2.1	FLOOR PLANS
A2.2	FLOOR PLANS
A2.3	ROOF PLANS
A3.1	EXTERIOR ELEVATIONS
A3.2	SECTIONS
A4.1	RENDERINGS
A4.2	RENDERINGS
A4.3	RENDERINGS
A4.4	RENDERINGS
A4.5	CONTEXT STUDIES
A4.6	CONTEXT STUDIES
A4.7	CONTEXT STUDIES
A8.1	EXTERIOR STONE
L1.1	PLANTING & SITE LIGHTING CONCEPT

CITY STAMPS

1		
1		
1		



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SIGNATURE

Julie Bla

ANDREW BLUMM, DESIGNER



ISSUANCE



DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPDATE
2	CONTEXT STUDIES
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

 CON
 DATE

 G UPDATES
 06/07/2024

 STUDIES
 06/13/2024

 07/03/2024
 09/11/2024

PROJECT NO.

23001

TITLE SHEET



# NOTES

- STORMWATER, IRRIGATION AND SITE DESIGN SHALL BE SUBJECT TO THE CITY OF SANTA BARBARA STORMWATER MANAGEMENT PROGRAM (SWMP) GUIDELINES AND REQUIREMENTS FOR TIER 3 STORMWATER MANAGEMENT.
- 2. LIGHTING DESIGN SHALL MEET THE CITY OF SANTA BARBARA OUTDOOR LIGHTING ORDINANCE AND OUTDOOR LIGHTING DESIGN GUIDELINES.
- 3. LANDSCAPE DESIGN SHALL COMPLY WITH CITY OF SANTA BARBARA GUIDELINES AND REQUIREMENTS. VEGETATION SHALL BE SELECTED WITH CONSIDERATION OF PREFERRED NATIVE, DROUGHT-TOLERANT, AND FIRE-RESISTANT PLANTS WHEN POSSIBLE.

# ABBREVIATIONS

A/C	AIR CONDITIONING	MFR	MANUFACTURER
AFF	ABOVE FINISH FLOOR	MH	MANHOLE
АНІ	AUTHORITY HAVING	MIN	MINIMUM
,,	JURISDICTION	MISC	
AHU	AIR HANDLER UNIT		
AL ALUM	ALUMINUM	I*I I L	METAL
		MULL	MULLION
		NAT	NATURAL
ARCH	ARCHITECT (URAL)	NIC	NOT IN CONTRACT
BD	BOARD	NOM	NOMINAL
BLDG	BUILDING	NTS	NOT TO SCALE
BLKG	BLOCKING	$\cap C$	on center
BO	BOTTOM OF		
BRZ	BRONZE		
CF	CUBIC FFFT	OPG	OPEINING
		OPP	OPPOSITE
		Р	PAINT
CLG		PSF	POUNDS PER SQUARE
CLR			FOOT
CMU	CONCRETE MASONRY	PSI	POUNDS PER SQUARE
		<b>DT</b>	
CONC		PI	PRESSURE IREATED
CPT	CARPET	PWD	PLYWOOD
CSMT	CASEMENT	QT	QUARRY TILE
CTR	CENTER	RA	RETURN AIR
CTYD	COURTYARD	RAD	RADIUS
CU	COPPER	RCP	REFLECTED CEILING
CY			PLAN
		REF	REFER(ENCE),
			REFRIGERATOR
DN		REINF	REINFORCE(D)
DS	DOWNSPOUT	REQ(D)	REQUIRED
DTL	DETAIL	REQ'S	REQUIREMENTS
DW	DISHWASHER	RFT	RFTAIN(ING)
ELEC	ELECTRIC(AL)		
ELEV	ELEVATION		
FP	FLECTRICAL PANEL	RIM	
 ЕХН	Εχμαιιςτ	RO	ROUGH OPENING
		SA	SUPPLY AIR
		SCHED	SCHEDULE
EAT		SF	SQUARE FEET
EQ	EQUAL	SIM	SIMILAR
EQUIP	EQUIPMENT	SMD	SMOKE DETECTOR
EST	estimate(d)	SS	STAINLESS STEEL
FCU	FAN COIL UNIT	STL	STEEL
FF	FINISH FLOOR	STRUCT	STRUCTURE,
FG	FINISH GRADE		STRUCTURAL
FL	FLOOR	Т	TILE
FND(N)	FOUNDATION	TEMP	TEMPERED,
FOF	FACE OF FINISH		TEMPERATURE
FOS	FACE OF STUD	TG, T&G	TONGUE AND GROOVE
FP	FIREPROOF(ING)	ТО	TOP OF
FS	FIRESTOP(PINIG)	TOF	TOP OF FRAMING
FTG		TS	TUBE STEEL
		TYP	TYPICAL
GA	GAUGE	U/C	UNDERCOUNTER
GALV	GALVANIZED	11/5	
GSF	GROSS SQUARE FEET		
GWB	GYPSUM (WALL) BOARD	UUN	NOTED
HBB	HOSE BIBB	VB	VAPOR BARRIER
HDR	HEADER	VERT	
HDW	HARDWARE	VECT	
HOR(IZ)	HORIZONTAL	VEST	VESTIBULE
HR	HOUR	VFY	VERIFY
		VIF	VERIFY IN FIELD
		VTR	VENT TO ROOF
HIG	HEATING	W/	WITH
HVVH	HOI WAIER HEAIER	W/D	WASHER/DRYER
INCL	INCLUDE(D),	W/O	WITHOUT
		WAP	WIRELESS ACCESS
1143(OL)	INSULATION		POINT
INT	INTERIOR	WC	WATER CLOSET
IT	IOINT	WD	WOOD
, LAM		WHR	WATER HEATER
		WP	WATERPROOF(ING)
		WRB	WEATHER BARRIER
		WTR	WATER
MECH	MECHANICAL	WTR YD	WATER YARD



all-blossoms.com @allblossomsdesign +1 (541) 510-2808

SIGNATURE

Andren Blan

ANDREW BLUMM, DESIGNER



ISSUANCE



DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPDATE
2	CONTEXT STUDIES
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

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 06/13/2024

 07/03/2024
 09/11/2024

PROJECT NO.

23001





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

## NIA GREEN BUILDING STANDARDS CODE ATODY MEASUDES SUEET 4

DATORY MEASURES, SHE				<b>I</b> (,	(Janu	ıary 2023)		
4.2 New multifamily dwellings, hotels and motels and new residential parking facilities	Y	N/A F	ESPON. PARTY		Excepti installec constru	on: A raceway is not required if a mi d in close proximity to the location of iction in accordance with the Califorr	nimum 40-ai the propose nia Electrical	mpere 208/240-volt dedica ed location of the EV space Code.
parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the ements of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest number. A parking space served by electric vehicle supply equipment or designed as a future EV charging				<b>4.</b> Tł fu	<b>4.106.4.2.4 Id</b> The service pa future EV cha	lentification. anel or subpanel circuit directory sha rging purposes as "EV CAPABLE" ir	all identify the	e overcurrent protective de e with the California Electri
shall count as at least one standard automobile parking space only for the purpose of complying with any able minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 ther details.				<b>4.</b> El	<b>4.106.4.2.5 El</b> Electric vehicl Traffic Operat	lectric Vehicle Ready Space Signa e ready spaces shall be identified by tions Policy Directive 13-01 (Zero En	<b>ige</b> . / signage or	pavement markings, in cor cle Signs and Pavement M
<b>4.2.1Multifamily development projects with less than 20 dwelling units; and hotels and motels with less</b> <b>10 sleeping units or guest rooms.</b> Imber of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to				su 4.106	successor(s).	c vehicle charging for additions a	Ind alteratio	ons of parking facilities so
ection. <b>1.EV Capable.</b> Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2				multi W al	Ultifamily build When new pa altered and th	dings. Irking facilities are added, or electrica le work requires a building permit, te	al systems o n (10) perce	r lighting of existing parking int of the total number of paragraphic structures for the
EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.					Notes:	e electric venicle charging spaces (i	_v spaces) (	sapable of supporting futur
The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.					1.Construction	on documents are intended to demo	nstrate the p	project's capability and cap
Exceptions: 1.When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number				DI		4.2 ENERGY EFF	ICIENC	
of EV capable spaces. 2.When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable				<b>4.2</b> 4.20	.201 GENE 201.1 SCOPE Commission	<b>ERAL</b> . For the purposes of mandatory en will continue to adopt mandatory st	ergy efficien andards.	cy standards in this code, t
Spaces, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed.				DI		4.3 WATER EFFIC	IENCY	
a.Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.				4.30 4.303	3U3 INL 303.1 WATER urinals) and and 4 303	CONSERVING PLUMBING FIXTUR d fittings (faucets and showerheads)	<b>RES AND FI</b> ) shall compl	<b>TTINGS.</b> Plumbing fixture ly with the sections 4.303.1
b.There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use.					Note: All n	oncompliant plumbing fixtures in an nbing fixtures. Plumbing fixture repla	y residential acement is re	real property shall be repla
<b>2.EV Ready</b> . Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.					com Cod build	pletion, certificate of occupancy, or le Section 1101.1, et seq., for the de dings affected and other important et	final permit a finition of a r nactment da	approval by the local buildin noncompliant plumbing fixtu tes.
Exception: Areas of parking facilities served by parking lifts. 4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more					<b>4.303.1.1</b> flush. Tan Specificatio	k-type water closets. The effective flush k-type water closets shall be certifie on for Tank-type Toilets.	d to the perfe	ormance criteria of the U.S
<b>ng units or guest rooms.</b> umber of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to ection.					Note of tw	e: The effective flush volume of dua vo reduced flushes and one full flush	l flush toilets ۱.	is defined as the composi
<b>1.EV Capable</b> . Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical					<b>4.303.1.2</b> The effecti	<b>Urinals.</b> The effective flush volume ive flush volume of all other urinals s	of wall mou hall not exce	nted urinals shall not exce sed 0.5 gallons per flush.
system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.					4.303.1.3 4.30	Showerheads. )3.1.3.1 Single Showerhead. Showerhead. Showerhead.	werheads sh	all have a maximum flow r
The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.					Wat 4.30	erSense Specification for Showerhe	ads. ving one sh	ower. When a shower is s
parking spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed over the five (5) percent required.					shov a sir allov	werhead, the combined flow rate of a ngle valve shall not exceed 1.8 gallo w one shower outlet to be in operation	all the showe ns per minut on at a time.	erheads and/or other show at 80 psi, or the shower and a chawterhead
a.Construction documents shall show locations of future EV spaces.					4.303.1.4	Faucets.		u a snowenneau.
b. There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use.					<b>4.30</b> not e	<b>03.1.4.1 Residential Lavatory Faud</b> exceed 1.2 gallons per minute at 60 be less than 0.8 gallons per minute a	<b>:ets.</b> The m psi. The mir at 20 psi.	aximum flow rate of reside nimum flow rate of residen
<b>2.EV Ready.</b> Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.					4.30 fauc build	<b>03.1.4.2 Lavatory Faucets in Com</b> tets installed in common and public in dings shall not exceed 0.5 gallons pe	mon and Pu use areas (o er minute at (	I <b>blic Use Areas.</b> The max utside of dwellings or sleep 60 psi.
<b>3.EV Chargers.</b> Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. Where common use parking is provided, at least one EV charger shall be located in the common use parking					<b>4.30</b>	<b>03.1.4.3 Metering Faucets.</b> Meterin e than 0.2 gallons per cycle.	າg faucets w	hen installed in residential
area and shall be available for use by all residents or guests. When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required,					<b>4.30</b> per 1 to ex	<b>03.1.4.4 Kitchen Faucets.</b> The max minute at 60 psi. Kitchen faucets max xceed 2.2 gallons per minute at 60 r	ximum flow r ay temporari	ate of kitchen faucets shal ily increase the flow above
an automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall have a capacity of a reduce the minimum required electrical system.					Note	ute at 60 psi. e: Where complying faucets are una uction.	available, ae	rators or other means may
capacity to the required EV capable spaces. 06.4.2.2.1 Electric vehicle charging stations (EVCS).					<b>4.30</b> Whe	03.1.4.5 Pre-rinse spray valves. en installed, shall meet the requirem	ents in the C	California Code of Regulatio
ctric vehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1. xception: Electric vehicle charging stations serving public accommodations, public housing, motels and hotels					Effic (d)(7	Clency Regulations), Sections 1605.1 7) and shall be equipped with an integration of the section of t	(h)(4) Table gral automa: d table and (	H-2, Section 1605.3 (h)(4 tic shutoff.
hall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable equirements.					Cod 1605	le of Regulations, Title 20 (Appliance 5.3 (h)(4)(A).	Efficiency F	Regulations),Section 1605.
CS shall comply with at least one of the following options:					TA	ABLE H-2		
the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space. 2.The charging space shall be located on an accessible route, as defined in the California Building Code,					ST VA	TANDARDS FOR COMME ALUES MANUFACTURED	RCIAL PI ON OR /	RE-RINSE SPRAY AFTER JANUARY 2
Chapter 2, to the building. Exception: Electric vehicle charging stations designed and constructed in compliance with the California					PR [sp	ODUCT CLASS pray force in ounce force (ozf)]		MAXIMUM FLOW RATE
4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions.					Pro	oduct Class 1 (≤ 5.0 ozf)		1.00
The minimum length of each EV space shall be 18 feet (5486 mm)					Pro	oduct Class 2 (> 5.0 ozf and $\leq$ 8.0 o oduct Class 3 (> 8.0 ozf)	ozf)	1.20
The minimum width of each EV space shall be 9 feet (2743 mm).					Title	20 Section 1605.3 (h)(4)(A): Comm 006, shall have a minimum spray for	iercial prerin ce of not les	se spray values manufactu s than 4.0 ounces-force (o
One in every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum isle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 2 feet (3658 mm).				4.303 build	803.2 Submete ildings.	ers for multifamily buildings and c	lwelling uni	ts in mixed-used residen
Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 ercent slope) in any direction.				4.303	California I	Plumbing Code.	as. Plumbir	no fixtures and fittings shall
<b>06.4.2.2.1.3 Accessible EV spaces.</b> addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall apply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B, EV ready				accoi 1701	cordance with 01.1 of the <i>Cal</i>	the California Plumbing Code, and s lifornia Plumbing Code.	hall meet the	e applicable standards refe
aces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section 09A.					NOTE: THIS TABL CONVENIE	LE COMPILES THE DATA IN SECT ENCE FOR THE USER.	ΓΙΟΝ 4.303. ⁻	1, AND IS INCLUDED AS
<b>06.4.2.3 EV space requirements.</b> ingle EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch cuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall					TABLE -	MAXIMUM FIXTURE WA		
ginate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close ximity to the location or the proposed location of the EV space. Construction documents shall identify the eway termination point, receptacle or charger location, as applicable. The service panel and/ or subpanel shall					SHOWER H	HEADS (RESIDENTIAL)		1.8 GMP @ 80
ve a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device talled, or space(s) reserved to permit installation of a branch circuit overcurrent protective device.					LAVATORY	Y FAUCETS (RESIDENTIAL)	MA	
xception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is stalled in close proximity to the location or the proposed location of the EV space, at the time of original onstruction in accordance with the California Electrical Code.					LAVATORY USE AREAS	Y FAUCETS IN COMMON & PUBLI S	c	0.5 GPM @ 6
Iultiple EV spaces required. Construction documents shall indicate the raceway termination point and the ation of installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide					KITCHEN F	AUCETS FAUCETS		1.8 GPM @ 60 0.2 GAL/CY(
ormation on amperage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and ctrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required eways and related components that are planned to be installed underground, enclosed, inaccessible or in					WATER CL	.OSET		1.28 GAL/FL
ncealed areas and spaces shall be installed at the time of original construction.				1 L				

		RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)						Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)
Y N/	A RESPON. PARTY	CHAPTER 3	Y N/A RESPON. PARTY		Y N/A RES	Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is PON. installed in close proximity to the location or the proposed location of the EV space at the time of original RTY construction in accordance with the California Electrical Code.	Y N/A RESPON PARTY	N.
		GREEN BUILDING SECTION 301 GENERAL		<b>4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities.</b> When parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the requirements of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest		<b>4.106.4.2.4 Identification.</b> The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for		<b>4.304 OUTDOOR WATER USE</b> <b>4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS</b> . Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water
		<b>301.1 SCOPE.</b> Buildings shall be designed to include the green building measures specified as mandatory in the application shocklists contained in this code. Voluntary green building measures are also included in the		whole number. A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2		future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. 4.106.4.2.5 Electric Vehicle Ready Space Signage.		Efficient Landscape Ordinance (MWELO), whichever is more stringent.
		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.		for further details. 4.106.4.2.1Multifamily development projects with less than 20 dwelling units; and hotels and motels with less		Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).		<ol> <li>The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, Title 23. Chapter 2.7. Division 2. MWELO and supporting documents, including water budget calculator, are</li> </ol>
		<b>301.1.1 Additions and alterations. [HCD]</b> The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the buildings are different as the second state of the second s		than 20 sleeping units or guest rooms. The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.		4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing multifamily buildings.		available at: https://www.water.ca.gov/
		specific area of the addition or alteration.		<b>1.EV Capable.</b> Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2		When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE		EFFICIENCY
		facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.		EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.		Notes:		4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in
		<b>Note:</b> Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section.		The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code		1.Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.		sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.
		<b>Note:</b> On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures.		Exceptions:		2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.		<b>4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING</b> <b>4.408.1 CONSTRUCTION WASTE MANAGEMENT.</b> Recycle and/or salvage for reuse a minimum of 65
		Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and		1.When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number of EV capable spaces.		4.201 GENERAL 4.201 1 SCOPE For the purposes of mandatory energy efficiency standards in this code, the California Energy		percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.
		other important enactment dates.		2.When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable spaces, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed		Commission will continue to adopt mandatory standards.		Exceptions:
		<b>301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD]</b> The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies		Notes:		DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION 4.303 INDOOR WATER USE		<ol> <li>Excavated soil and land-clearing debris.</li> <li>Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably</li> </ol>
		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.		a.Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.		<ul> <li>4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.4.4.</li> </ul>		close to the jobsite. 3. The enforcing agency may make exceptions to the requirements of this section when isolated in areas beyond the haul boundaries of the diversion facility.
		SECTION 302 MIXED OCCUPANCY BUILDINGS		b.There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or EV chargers are installed for use.		<b>Note:</b> All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final		<ul> <li>4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as</li> </ul>
		<b>302.1 MIXED OCCUPANCY BUILDINGS.</b> In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. Exceptions:		<b>2.EV Ready</b> . Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per		completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.		necessary and shall be available during construction for examination by the enforcing agency.
		<ol> <li>[HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable.</li> <li>[HCD] For purposes of CA/ Green live/work units, complying with Section 419 of the California.</li> </ol>		dwelling unit when more than one parking space is provided for use by a single dwelling unit. Exception: Areas of parking facilities served by parking lifts.		<b>4.303.1.1 Water Closets.</b> The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense.		<ul> <li>reuse on the project or salvage for future use or sale.</li> <li>2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or bulk mixed (single stream).</li> </ul>
		Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable.		4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more sleeping units or guest rooms.		Specification for Tank-type Toilets.		<ol> <li>Identify diversion facilities where the construction and demolition waste material collected will be taken.</li> </ol>
		DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS:		The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.		of two reduced flushes and one full flush.		<ol> <li>Identify construction methods employed to reduce the amount of construction and demolition waste generated.</li> <li>Specify that the amount of construction and demolition waste materials diverted shall be calculated because the state the state of the state of</li></ol>
		HCDDepartment of Housing and Community DevelopmentBSCCalifornia Building Standards CommissionDSA-SSDivision of the State Architect, Structural Safety		<b>1.EV Capable</b> . Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical		The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.		4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the
		OSHPD Office of Statewide Health Planning and Development LR Low Rise HR High Rise		system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.		<b>4.303.1.3.1 Single Showerhead.</b> Showerheads shall have a maximum flow rate of not more than 1.8		demolition waste material diverted from the landfill complies with Section 4.408.1.
		AA Additions and Alterations N New		The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.		WaterSense Specification for Showerheads.		<b>Note:</b> The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.
		CHAPTER 4		Exception: When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of parking spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed over the five (5) percent required.		<b>4.303.1.3.2 Multiple showerheads serving one shower</b> . When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only		4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in
		RESIDENTIAL MANDATORT MEASURES		Notes:		allow one shower outlet to be in operation at a time. <b>Note</b> : A hand-held shower shall be considered a showerhead.		Section 4.408.1 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined
		SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)		a.Construction documents shall show locations of future EV spaces.		4.303.1.4 Faucets.		weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1
		<b>FRENCH DRAIN.</b> A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.		EV chargers are installed for use.		<b>4.303.1.4.1 Residential Lavatory Faucets.</b> The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.		<b>4.408.5 DOCUMENTATION</b> . Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4
		<b>WATTLES.</b> Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hav, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also		Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.		<b>4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas.</b> The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential		Notes:
		used for perimeter and inlet controls.		Exception: Areas of parking facilities served by parking lifts.		buildings shall not exceed 0.5 gallons per minute at 60 psi. <b>4.303.1.4.3 Metering Faucets.</b> Metering faucets when installed in residential buildings shall not deliver		<ol> <li>Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.</li> </ol>
		<b>4.106.1 GENERAL.</b> Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.		Where common use parking is provided, at least one EV charger shall be located in the common use parking area and shall be available for use by all residents or guests.		more than 0.2 gallons per cycle. <b>4.303.1.4.4 Kitchen Faucets.</b> The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons		<ol> <li>Mixed construction and demolition debris (C &amp; D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).</li> </ol>
	]	4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less		When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, an automatic load management system (ALMS) may be used to reduce the maximum required electrical		per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.		<ul> <li>4.410 BUILDING MAINTENANCE AND OPERATION</li> <li>4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the</li> </ul>
		or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent		shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall have a minimum capacity of 40 amperes, and installed EVSE shall		<b>Note</b> : Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.		following shall be placed in the building:
		<ol> <li>Retention basins of sufficient size shall be utilized to retain storm water on the site.</li> <li>Note that the store st</li></ol>		capacity to the required EV capable spaces.		<b>4.303.1.4.5 Pre-rinse spray valves.</b> When installed, shall meet the requirements in the <i>California Code of Regulations</i> , Title 20 (Appliance		<ol> <li>If a cycle of the structure.</li> <li>Operation and maintenance instructions for the following:         <ul> <li>a Equipment and appliances, including water-saving devices and systems, HVAC systems</li> </ul> </li> </ol>
		<ol> <li>Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.</li> </ol>		4.106.4.2.2.1 Electric vehicle charging stations (EVCS). Electric vehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.		Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7) and shall be equipped with an integral automatic shutoff.		<ul> <li>Equipment ad applications, including water caring advices and systems, route systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.</li> <li>Boof and vard draipage, including gutters and downspouts.</li> </ul>
		Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or		shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable requirements.		<b>FOR REFERENCE ONLY:</b> The following table and code section have been reprinted from the <i>California</i> <i>Code of Regulations</i> , Title 20 (Appliance Efficiency Regulations),Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).		<ul> <li>c. Space conditioning systems, including condensers and air filters.</li> <li>d. Landscape irrigation systems.</li> <li>e. Water reuse systems</li> </ul>
		are part of a larger common plan of development which in total disturbs one acre or more of soil. (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)		<b>4.106.4.2.2.1.1 Location.</b> EVCS shall comply with at least one of the following options:				<ol> <li>Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.</li> <li>Public transportation and/or carpool options available in the area</li> </ol>
		<b>4.106.3 GRADING AND PAVING.</b> 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		1.The charging space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.		STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY		<ol> <li>Full and the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.</li> <li>Information about water concerning landscape and irrigation design and controllers which concerning</li> </ol>
		water include, but are not limited to, the following:           1. Swales		2.The charging space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building.		VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019		<ul> <li>water.</li> <li>7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.</li> </ul>
		<ol> <li>vvater collection and disposal systems</li> <li>French drains</li> <li>Water retention gardens</li> <li>Other states and states a</li></ol>		Exception: Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section		PRODUCT CLASS [spray force in ounce force (ozf)] MAXIMUM FLOW RATE (gpm)		<ol> <li>Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.</li> <li>Information about state solar energy and incentive programs available.</li> </ol>
		<ol> <li>Other water measures which keep surface water away from buildings and aid in groundwater recharge.</li> </ol>		4.106.4.2.2.1.2, Item 3. 4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions.		Product Class 1 (≤ 5.0 ozf) 1.00		<ol> <li>A copy of all special inspections verifications required by the enforcing agency or this code.</li> <li>Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures.</li> </ol>
		<ul> <li><b>4.106.4 Electric vehicle (EV) charging for new construction.</b> New construction shall comply with Sections</li> </ul>		The charging spaces shall be designed to comply with the following: 1.The minimum length of each EV space shall be 18 feet (5486 mm).		Product Class 2 (> 5.0 ozt and ≤ 8.0 ozf)         1.20           Product Class 3 (> 8.0 ozf)         1.28		12. Information and/or drawings identifying the location of grab bar reinforcements.
		4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i> , Article 625.		2.The minimum width of each EV space shall be 9 feet (2743 mm).		Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 grams-force(gf)]		building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper,
		Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:		3.One in every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).		4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial buildings.		ordinance, if more restrictive.
		<ul><li>1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power.</li><li>1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional</li></ul>		a.Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.		California Plumbing Code.		42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.
		<ul><li>local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project.</li><li>2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional</li></ul>		<b>4.106.4.2.2.1.3 Accessible EV spaces.</b> In addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall		accordance with the <i>California Plumbing Code</i> , and shall meet the applicable standards referenced in Table 1701.1 of the <i>California Plumbing Code</i> .		
		parking facilities.		comply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section 1109A.		NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A		SECTION 4.501 GENERAL
		<b>4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages.</b> For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main		<b>4.106.4.2.3 EV space requirements.</b> 1.Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch		TABLE - MAXIMUM FIXTURE WATER USE		The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.
		service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere		circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the location or the proposed location of the EV space. Construction documents shall identify the				SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS The following terms are defined in Charter 2 (and are included here for a function of the sector
		208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.		raceway termination point, receptacle or charger location, as applicable. The service panel and/ or subpanel shall have a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device installed, or space(s) reserved to permit installation of a branch circuit overcurrent protective device.		SHOWER READS         (RESIDENTIAL)         1.8 GMP @ 80 PSI           LAVATORY FALICETS (RESIDENTIAL)         MAX. 1.2 GPM @ 60 PSI_MIN. 0.8 GPM @ 20		AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door
		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> .		Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space, at the time of original		LAVATORY FAUCETS IN COMMON & PUBLIC 0.5 GPM @ 60 PSI		COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and
		<b>4.106.4.1.1 Identification.</b> The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination		construction in accordance with the California Electrical Code. 2.Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the		USE AREAS     1.8 GPM @ 60 PSI		structural panels, structural composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section
		location shall be permanently and visibly marked as "EV CAPABLE".		location of installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide information on amperage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and electrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required		METERING FAUCETS0.2 GAL/CYCLEWATER CLOSET1.28 GAL/FLUSH		<b>DIRECT-VENT APPLIANCE.</b> A fuel-burning appliance with a sealed combustion system that draws all air for
				raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.		URINALS 0.125 GAL/FLUSH		combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.
DISC	CLAIMER:T	HIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORI	NIA GREEN BUIL	DING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS. THIS CHECKLI	ST IS TO BE	USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END US	ER ASSUMES A	IL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT. INCLUDING VERIFICATION WITH THE FULL CODE.



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SIGNATURE

Andren Blan

ANDREW BLUMM, DESIGNER



ISSUANCE

INITIAL APPLICATION

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPDATE
2	CONTEXT STUDIES
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

DATE NG UPDATES 06/07/2024 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

CGBS SHEET 1



AIA

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

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								CHAPTER 7
	<b>MAXIMUM INCREMENTAL REACTIVITY (MIR).</b> The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to		IABLE 4.504.2 - SEALANT VOC LIMIT		TABLE 4.504.5 - FORMALDEHYDE LIN			INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS
	hundredths of a gram (g O ³ /g ROC). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700		SEALANTS VOC LIMIT		PRODUCT			702 QUALIFICATIONS
	and 94701.		ARCHITECTURAL 250		HARDWOOD PLYWOOD VENEER CORE	0.05		<b>702.1 INSTALLER TRAINING.</b> HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Upportified persons may perform HVAC installations when under the direct supervision
	<b>PRODUCT-WEIGHTED MIR (PWMIR).</b> The sum of all weighted-MIR for all ingredients in a product subject to this		MARINE DECK 760		HARDWOOD PLYWOOD COMPOSITE CORE	0.05		responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC Examples of acceptable HVAC training and certification programs include but are not limited to the following:
	article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).		ROADWAY 250		MEDIUM DENSITY FIBERBOARD	0.11		1. State certified apprenticeship programs.
	Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).		SINGLE-PLY ROOF MEMBRANE 450		THIN MEDIUM DENSITY FIBERBOARD2	0.13		<ol> <li>Public utility training programs.</li> <li>Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.</li> </ol>
	ozone formation in the troposphere.		SEALANT PRIMERS		1. VALUES IN THIS TABLE ARE DERIVED FROM BY THE CALIF. AIR RESOURCES BOARD, AIR TO MEASURE FOR COMPOSITE WOOD AS TESTED	THOSE SPECIFIED XICS CONTROL		<ol> <li>Other programs acceptable to the enforcing agency.</li> </ol>
	<b>VOC.</b> A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain		ARCHITECTURAL		WITH ASTME 1333. FOR ADDITIONAL INFORMATION OF REGULATIONS, TITLE 17, SECTIONS 93	TION, SEE CALIF. 3120 THROUGH		_ <b>702.2 SPECIAL INSPECTION [HCD].</b> 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.
	hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).		NON-POROUS 250					other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate comp to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In add other certifications or qualifications accentable to the enforcing agency, the following certifications or education
	<ul> <li>4.503 I TICLE LACES</li> <li>4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as</li> </ul>		MODIFIED BITUMINOUS 500		THICKNESS OF 5/16" (8 MM).	VIAAIIVIOIVI		considered by the enforcing agency when evaluating the qualifications of a special inspector:
	applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.		MARINE DECK 760		DIVISION 4.5 ENVIRONMENTAL QUAL	ITY (continued)		<ol> <li>Certification by a national or regional green building program or standard publisher.</li> <li>Certification by a statewide energy consulting or verification organization, such as HERS raters, building program or standard publisher.</li> </ol>
	4.504 POLLUTANT CONTROL 4.504 1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL FOURPMENT DURING		OTHER 750		<b>4.504.3 CARPET SYSTEMS.</b> All carpet installed in the building interior so Department of Public Health, "Standard Method for the Testing and Evalu	shall meet the requirements of the California luation of Volatile Organic Chemical Emissions		<ol> <li>Successful completion of a third party apprentice training program in the appropriate trade.</li> <li>Other programs acceptable to the enforcing agency</li> </ol>
	<b>CONSTRUCTION.</b> At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component				from Indoor Sources Using Environmental Chambers," Version 1.2, Janu California Specification 01350)	uary 2017 (Emission testing method for		Notes:
	openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.				See California Department of Public Health's website for certification pro-	grams and testing labs.		<ol> <li>Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.</li> <li>HERS raters are special inspectors cartified by the California Energy Commission (CEC) to result the second sec</li></ol>
	<b>4.504.2 FINISH MATERIAL POLLUTANT CONTROL.</b> Finish materials shall comply with this section.		TABLE 4 504 3 - VOC CONTENT LIMITS FOR		https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/	/VOC.aspx.		homes in California according to the Home Energy Rating System (HERS).
	<b>4.504.2.1 Adhesives, Sealants and Caulks.</b> Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality		ARCHITECTURAL COATINGS _{2,3}		4.504.3.1 Carpet cushion. All carpet cushion installed in the build California Department of Public Health, "Standard Method for the	ding interior shall meet the requirements of the Testing and Evaluation of Volatile Organic		[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance.
	management district rules apply:		GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS		(Emission testing method for California Specification 01350)	nambers," version 1.2, January 2017		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 recognized state, national er international expectition or determined by the level expect.
	<ol> <li>Adnesives, adnesive bonding primers, adnesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAOMD Rule 1168 VOC limits, as shown in Table 4 504.1 or 4 504.2, as applicable.</li> </ol>		COATING CATEGORY VOC LIMIT		See California Department of Public Health's website for certification	ion programs and testing labs.		shall be closely related to the primary job function, as determined by the local agency.
	Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and		FLAT COATINGS50NON-FLAT COATINGS100		https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/I	Pages/VOC.aspx.		<b>Note:</b> Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
	tricloroethylene), except for aerosol products, as specified in Subsection 2 below.		NONFLAT-HIGH GLOSS COATINGS 150		4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is	installed , at least 80% of floor area receiving		
	2. Across auresives, and smaller unit sizes of auresives, and searant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including				resilient flooring shall meet the requirements of the California Department Testing and Evaluation of Volatile Organic Chemical Emissions from Inde	nt of Public Health, "Standard Method for the oor Sources Using Environmental Chambers,"		<b>703.1 DOCUMENTATION.</b> Documentation used to show compliance with this code shall include by
	prohibitions on use of certain toxic compounds, of <i>California Code of Regulations</i> , Title 17, commencing with section 94507.		ALUMINUM ROOF COATINGS400BASEMENT SPECIALTY COATINGS400		Version 1.2, January 2017 (Emission testing method for California Special	incation 01350)		limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or specific inspection is percentised at the two that we that the the two the specific documentation or specific documentati
	<b>4.504.2.2 Paints and Coatings.</b> Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4 504.3, unless more stringent local limits.		BITUMINOUS ROOF COATINGS 50		hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages	s/VOC.aspx.		the appropriate section or identified applicable checklist.
	apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss		BITUMINOUS ROOF PRIMERS 350					
	coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in		BOND BREAKERS     350       CONCRETE CURING COMPOUNDS     350		4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particle composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite wood products used on the interior or exterior of the buildings formaldebyde as specified in ARB's Air Toxics Control Measure for Composite w	eboard and medium density fiberboard s shall meet the requirements for posite Wood (17 CCR 93120 et seg.)		
	4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR		CONCRETE/MASONRY SEALERS 100		by or before the dates specified in those sections, as shown in Table 4.5	i04.5		
	Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of <i>California Code of</i>		DRIVEWAY SEALERS 50		<b>4.504.5.1 Documentation.</b> Verification of compliance with this se by the enforcing agency. Documentation shall include at least one	ection shall be provided as requested e of the following:		
	Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation		FAUX FINISHING COATINGS 350		<ol> <li>Product certifications and specifications.</li> <li>Chain of custody certifications.</li> </ol>			
	<b>4.504.2.4 Verification.</b> Verification of compliance with this section shall be provided at the request of the		FIRE RESISTIVE COATINGS 350		<ol> <li>Product labeled and invoiced as meeting the Composite CCR, Title 17, Section 93120, et seq.).</li> </ol>	e Wood Products regulation (see		
	enforcing agency. Documentation may include, but is not limited to, the following:		FORM-RELEASE COMPOUNDS 250		<ol> <li>Exterior grade products marked as meeting the PS-1 or Wood Association, the Australian AS/NZS 2269, Europe 0121 CSA 0151 CSA 0153 and CSA 0325 standards</li> </ol>	ean 636 3S standards of the Engineered		
	<ol> <li>Manufacturer's product specification.</li> <li>Field verification of on-site product containers.</li> </ol>		GRAPHIC ARTS COATINGS (SIGN PAINTS) 500		5. Other methods acceptable to the enforcing agency.			
			HIGH TEMPERATURE COATINGS 420		4 505 INTERIOR MOISTURE CONTROL			
	TABLE 4.504.1 - ADHESIVE VOC LIMIT _{1,2}		LOW SOLIDS COATINGS1 120		<b>4.505.1 General.</b> Buildings shall meet or exceed the provisions of the C	California Building Standards Code.		
	ARCHITECTURAL APPLICATIONS VOC LIMIT		MAGNESITE CEMENT COATINGS 450		4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations California Building Code, Chapter 19, or concrete slab-on-ground floors r	s required to have a vapor retarder by required to have a vapor retarder by the		
	INDOOR CARPET ADHESIVES 50		MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500		4.505.2.1 Capillary break. A capillary break shall be installed in c	compliance with at least one of the		
	CARPET PAD ADHESIVES 50		MULTICOLOR COATINGS 250		following:			
	WOOD FLOORING ADHESIVES 100		PRETREATMENT WASH PRIMERS     420       PRIMERS     SEALERS & LINDERCOATERS     100		a vapor barrier in direct contact with concrete and a con shrinkage, and curling, shall be used. For additional info	ncrete mix design, which will address bleeding, formation, see American Concrete Institute.		
	RUBBER FLOOR ADHESIVES   60		REACTIVE PENETRATING SEALERS 350		ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing ag	gency.		
	SUBFLOOR ADHESIVES     50       CERAMIC TILE ADHESIVES     65		RECYCLED COATINGS 250		A slab design specified by a licensed design professiona	al. materials with visible signs of water damage		
	VCT & ASPHALT TILE ADHESIVES 50		ROOF COATINGS     50       RUST PREVENTATIVE COATINGS     250		shall not be installed. Wall and floor framing shall not be enclosed when moisture content. Moisture content shall be verified in compliance with the	the framing members exceed 19 percent he following:		
	DRYWALL & PANEL ADHESIVES 50		SHELLACS		1. Moisture content shall be determined with either a probe-type of moisture verification methods may be appreciated by the second	or contact-type moisture meter.Equivalent		
	MULTIPURPOSE CONSTRUCTION ADHESIVE     70		CLEAR 730		found in Section 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) to	4 feet (1219 mm) from the grade stamped end		
	STRUCTURAL GLAZING ADHESIVES 100		SPECIALTY PRIMERS, SEALERS & 100		of each piece verified. 3. At least three random moisture readings shall be performed or	n wall and floor framing with documentation		
	SINGLE-PLY ROOF MEMBRANE ADHESIVES250OTHER ADHESIVES NOT LISTED50		STAINS 250		Insulation products which are visibly wet or have a high moisture content	t shall be replaced or allowed to drv prior to		
	SPECIALTY APPLICATIONS		STONE CONSOLIDANTS 450		enclosure in wall or floor cavities. Wet-applied insulation products shall f recommendations prior to enclosure.	follow the manufacturers' drying		
	PVC WELDING510CPVC WELDING490		SWIMMING POOL COATINGS     340       TRAFFIC MARKING COATINGS     100		4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically	y ventilated and shall comply with the		
	ABS WELDING 325		TUB & TILE REFINISH COATINGS     420		following:	,		
	PLASTIC CEMENT WELDING 250		WATERPROOFING MEMBRANES 250		<ol> <li>Fans shall be ENERGY STAR compliant and be ducted to term</li> <li>Unless functioning as a component of a whole house ventilation</li> </ol>	minate outside the building. on system, fans must be controlled by a		
	ADHESIVE PRIMER FOR PLASTIC     550       CONTACT ADHESIVE     80		WOOD COATINGS 275 WOOD PRESERVATIVES 350		a. Humidity controls shall be capable of adjustment betwee	en a relative humidity range less than or		
	SPECIAL PURPOSE CONTACT ADHESIVE 250		ZINC-RICH PRIMERS 340		equal to 50% to a maximum of 80%. A humidity control adjustment.	I may utilize manual or automatic means of		
	STRUCTURAL WOOD MEMBER ADHESIVE     140       TOP & TRIM ADDRESIVE     250		1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS		b. A humidity control may be a separate component to the integral (i.e., built-in)	exnaust fan and is not required to be		
	SUBSTRATE SPECIFIC APPLICATIONS		2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.		Notes:			
	METAL TO METAL 30		3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS		<ol> <li>For the purposes of this section, a bathroom is a room w tub/shower combination.</li> <li>Lighting integral to bethroom ovhevet fore shell exactly</li> </ol>	which contains a bathtub, shower or		
	PLASTIC FOAMS50POROUS MATERIAL (EXCEPT WOOD)50		SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.		4.507 ENVIRONMENTAL COMFORT	mar are camornia Energy Coue.		
	WOOD 30				4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heati sized, designed and have their equipment selected using the following m	ing and air conditioning systems shall be nethods:		
	FIBERGLASS 80				<ol> <li>The heat loss and heat gain is established according to ANSI/A Load Calculation). ASHRAF handbooks or other equivalent de</li> </ol>	ACCA 2 Manual J - 2011 (Residential esign software or methods.		
	1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER				<ol> <li>Duct systems are sized according to ANSI/ACCA 1 Manual D ASHRAE handbooks or other equivalent design software or m</li> </ol>	- 2014 (Residential Duct Systems), nethods.		
	THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.				<ol> <li>Select heating and cooling equipment according to ANSI/ACC. Equipment Selection), or other equivalent design software or n</li> </ol>	A 3 Manual S - 2014 (Residential methods.		
	2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR				<b>Exception:</b> Use of alternate design temperatures necessary to en acceptable.	nsure the system functions are		
	QUALITY MANAGEMENT DISTRICT RULE 1168.							
	<b>R</b> . THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CAU FO		ARDS (CALGREEN) CODE, DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT, JURISDICTIONS, THIS CHE	ECKLIST IS TO BE	LISED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END LISER	TO MEET THOSE INDIVIDUAL NEEDS THE END USE	R ASSUMES A	RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE

TABLE 4.504.2 - SEALANT VOC LI	MIT
(Less Water and Less Exempt Compounds in Gr	rams per Liter)
SEALANTS	VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NON-POROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS2,3	
GRAMS OF VOC PER LITER OF COATING, LESS COMPOUNDS	S WATER & LESS EXEMPT
COATING CATEGORY	VOC LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS 450	
SWIMMING POOL COATINGS 340	
TRAFFIC MARKING COATINGS 100	
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

TABLE 4 504 5 - FORMAL DEHYDE I	IMITS
MAXIMUM FORMALDEHYDE EMISSIONS IN PAR	
PRODUCT	CURRENT LIM
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
	0.11
1 VALUES IN THIS TABLE ARE DERIVED FROM	
BY THE CALIF. AIR RESOURCES BOARD, AIR T	
WITH ASTM E 1333. FOR ADDITIONAL INFORM	ATION, SEE CALIF
93120.12.	93120 THROUGH
2. THIN MEDIUM DENSITY FIBERBOARD HAS A THICKNESS OF 5/16" (8 MM).	MAXIMUM
<b>DIVISION 4.5 ENVIRONMENTAL QUA</b> <b>4.504.3 CARPET SYSTEMS.</b> All carpet installed in the building interior Department of Public Health, "Standard Method for the Testing and Ev from Indoor Sources Using Environmental Chambers," Version 1.2, Ja California Specification 01350)	LITY (continues of the requalition of Volatile Conuary 2017 (Emission)
See California Department of Public Health's website for certification publics://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Page	rograms and testing es/VOC.aspx.
4.504.3.1 Carpet cushion. All carpet cushion installed in the bu	ilding interior shall m
California Department of Public Health, "Standard Method for the Chemical Emissions from Indoor Sources Using Environmental (Emission testing method for California Specification 01350)	ອ Testing and Evalua Chambers," Version
See California Department of Public Health's website for certifica	ation programs and t
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IA0	)/Pages/VOC.aspx.
4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the r	equirements of Tabl
<ul> <li>4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring resilient flooring shall meet the requirements of the California Department Testing and Evaluation of Volatile Organic Chemical Emissions from In Version 1.2, January 2017 (Emission testing method for California Specence)</li> </ul>	is installed , at least ent of Public Health, idoor Sources Using cification 01350)
See California Department of Public Health's website for certification p	rograms and testing es/VOC.aspx.
4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particle composite wood products used on the interior or exterior of the building	cleboard and mediur gs shall meet the rec
formaldehyde as specified in ARB's Air Toxics Control Measure for Co by or before the dates specified in those sections, as shown in Table 4	mposite Wood (17 C .504.5
<ul> <li>4.504.5.1 Documentation. Verification of compliance with this s by the enforcing agency. Documentation shall include at least or</li> </ul>	section shall be prov te of the following:
<ol> <li>Product certifications and specifications.</li> <li>Chain of custody certifications.</li> </ol>	
3. Product labeled and invoiced as meeting the Compos CCR, Title 17, Section 93120, et seq.).	ite Wood Products r
<ol> <li>Exterior grade products marked as meeting the PS-1 Wood Association, the Australian AS/NZS 2269, Euro 0121, CSA 0151, CSA 0153 and CSA 0325 standards</li> <li>Other methods acceptable to the enforcing agency.</li> </ol>	or PS-2 standards o pean 636 3S standa 3.
<b>4.505 INTERIOR MOISTURE CONTROL</b> <b>4.505.1 General.</b> Buildings shall meet or exceed the provisions of the	California Building S
<b>4.505.2 CONCRETE SLAB FOUNDATIONS.</b> Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floors California Residential Code, Chapter 5, shall also comply with this sect	ons required to have s required to have a tion.
<b>4.505.2.1 Capillary break.</b> A capillary break shall be installed in following:	າ compliance with at
<ol> <li>A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) of a vapor barrier in direct contact with concrete and a constrinkage, and curling, shall be used. For additional in ACI 302.2R-06.</li> <li>Other equivalent methods approved by the enforcing and curling shall be used.</li> </ol>	or larger clean aggre oncrete mix design, v nformation, see Ame agency
<ol> <li>A slab design specified by a licensed design profession</li> </ol>	inal.
<b>4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS.</b> Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be verified in compliance with	r materials with visib n the framing memb the following:
<ol> <li>Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the enfor found in Section 101.8 of this code.</li> <li>Moisture readings shall be taken at a point 2 feet (610 mm) to</li> </ol>	e or contact-type mo cing agency and sha to 4 feet (1219 mm)
<ul><li>of each piece verified.</li><li>3. At least three random moisture readings shall be performed acceptable to the enforcing agency provided at the time of a</li></ul>	on wall and floor frai pproval to enclose th
Insulation products which are visibly wet or have a high moisture conte enclosure in wall or floor cavities. Wet-applied insulation products sha recommendations prior to enclosure.	nt shall be replaced Il follow the manufac
4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanica following:	lly ventilated and sh
<ol> <li>Fans shall be ENERGY STAR compliant and be ducted to te</li> <li>Unless functioning as a component of a whole house ventila humidity control.</li> </ol>	rminate outside the tion system, fans mu
<ul> <li>a. Humidity controls shall be capable of adjustment betwe qual to 50% to a maximum of 80%. A humidity contradjustment.</li> <li>b. A humidity control may be a separate component to the integral (i.e., built-in)</li> </ul>	een a relative humic ol may utilize manua ne exhaust fan and is
Notes:	
<ol> <li>For the purposes of this section, a bathroom is a room tub/shower combination.</li> <li>Lighting integral to bathroom exhaust fans shall comp</li> </ol>	which contains a ba
<ul> <li>4.507 ENVIRONMENTAL COMFORT</li> <li>4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heat sized, designed and have their equipment selected using the following</li> </ul>	ating and air conditio methods:
<ol> <li>The heat loss and heat gain is established according to ANS Load Calculation), ASHRAE handbooks or other equivalent</li> <li>Duct systems are sized according to ANSI/ACCA 1 Manual ASHRAE handbooks or other equivalent design software or</li> <li>Select heating and cooling equipment according to ANSI/ACC Equipment Selection), or other equivalent design software or</li> </ol>	I/ACCA 2 Manual J design software or m D - 2014 (Residentia methods. CA 3 Manual S - 20 r methods.
<b>Exception:</b> Use of alternate design temperatures necessary to acceptable.	ensure the system f

#### YES NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.) N/A RESPON. PARTY N/A RESPON CHAPTER 7 _____ **INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS** NC 702 QUALIFICATIONS LIMIT **702.1 INSTALLER TRAINING.** HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following: _____ 1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. ,IFIED Programs sponsored by manufacturing organizations. Other programs acceptable to the enforcing agency. VCE 702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector: 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 tinued) performance contractors, and home energy auditors. requirements of the California ile Organic Chemical Emissions 3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency. ssion testing method for Notes 1. Special inspectors shall be independent entities with no financial interest in the materials or the ing labs. project they are inspecting for compliance with this code. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS). all meet the requirements of the [BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall aluation of Volatile Organic employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with sion 1.2, January 2017 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 and testing labs. 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. Table 4.504.1. east 80% of floor area receiving 703 VERIFICATIONS Ith, "Standard Method for the 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not sing Environmental Chambers," 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 ting labs. the appropriate section or identified applicable checklist. dium density fiberboard requirements for 7 CCR 93120 et seq.), provided as requested ts regulation (see Is of the Engineered andards, and Canadian CSA ng Standards Code. ave a vapor retarder by e a vapor retarder by the h at least one of the gregate shall be provided with gn, which will address bleeding, American Concrete Institute, isible signs of water damage embers exceed 19 percent moisture meter.Equivalent shall satisfy requirements m) from the grade stamped end framing with documentation se the wall and floor framing. ced or allowed to dry prior to ufacturers' drying d shall comply with the the building. s must be controlled by a imidity range less than or anual or automatic means of nd is not required to be a bathtub, shower or ornia Energy Code. ditioning systems shall be al J - 2011 (Residential methods ential Duct Systems), 2014 (Residential m functions are



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SIGNATURE

Julie Elen

ANDREW BLUMM, DESIGNER



ISSUANCE

INITIAL APPLICATION

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPDATE
2	CONTEXT STUDIES
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

DATE UPDATES 06/07/2024 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

CGBS SHEET 2







1: VIEW FROM VISTA DE LA CUMBRE

2: FRONT (SOUTH) ELEVATION



5: REAR (NORTH) ELEVATION

6: SIDE (WEST) ELEVATION



3: FRONT PORCH/PATIO





7: EXISTING ACCESSORY STUDIO (TO BE DEMOLISHED)



PHOTO LEGEND



4: SIDE (EAST) ELEVATION



8: EXISTING WORKSHOP/SHED (TO BE DEMOLISHED)



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ANDREW BLUMM, DESIGNER



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INITIAL APPLICATION

DATE

04/23/2024

REVISIONS

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1	RENDERING UF
2	CONTEXT STU
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

 
 DN
 DATE

 UPDATES
 06/07/2024
 UDIES 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

existing PHOTOS





309 VISTA DE LA CUMBRE (NEIGHBOR TO WEST) VIEW FROM STREET



301 VISTA DE LA CUMBRE VIEW FROM STREET



317 VISTA DE LA CUMBRE (NEIGHBOR TO EAST) VIEW FROM STREET



240 VISTA DE LA CUMBRE VIEW FROM STREET



316 VISTA DE LA CUMBRE (NEIGHBOR TO SOUTH) VIEW FROM STREET



239 VISTA DE LA CUMBRE VIEW FROM STREET



# VICINITY MAP



305 VISTA DE LA CUMBRE VIEW FROM STREET



232 VISTA DE LA CUMBRE VIEW FROM STREET



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1	RENDERING UP
2	CONTEXT STUE
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4	<b>REVISION 2</b>

DATE JPDATES 06/07/2024 JDIES 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001







321 VISTA DE LA CUMBRE VIEW FROM STREET



337 VISTA DE LA CUMBRE VIEW FROM STREET



322 VISTA DE LA CUMBRE VIEW FROM STREET



345 VISTA DE LA CUMBRE VIEW FROM STREET



325 VISTA DE LA CUMBRE VIEW FROM STREET



3043 PASEO DEL DESCANSO VIEW FROM STREET



# VICINITY MAP



326 VISTA DE LA CUMBRE VIEW FROM STREET



3058 PASEO DEL DESCANSO VIEW FROM STREET



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DATE

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2	CONTEXT STUDIES
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

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PROJECT NO.









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Julie Eler

ANDREW BLUMM, DESIGNER



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INITIAL APPLICATION

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04/23/2024

REVISIONS

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4	<b>REVISION 2</b>

DATE DATES 06/07/2024 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

SITE SURVEY

June 25, 2024

.

Andrew Blumm 313-Vista de la Cumbre Santa Barbara, Ca, 93105 053-084-008 .

**Re: Form Board Certification:** 

We have surveyed the lot at the above address and have found the gross and net areas to be equal. We report the gross/net area of the lot to be 14,897 sq ft or 0.342 acres. We have made our determination from the field survey and a review of the current title repor.

Sincerely,

James Wenzel L.S. 9209

1





P.O. Box 82, Atascadero, CA 93422 1727 State Street, Suite 25, Santa Barbara, CA 93101 WWSurveying.com (805) 681-1615 WW Surveying, Inc



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SIGNATURE

Julie Bla

ANDREW BLUMM, DESIGNER



ISSUANCE

INITIAL APPLICATION

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UP
2	CONTEXT STU
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

DATE JPDATES 06/07/2024 UDIES 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

SITE SURVEY ADDENDUM







SIGNATURE

Andren Ler

ANDREW BLUMM, DESIGNER



ISSUANCE

INITIAL APPLICATION

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPDATE
2	CONTEXT STUDIES
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

 N
 DATE

 JPDATES
 06/07/2024

 JDIES
 06/13/2024

 07/03/2024
 09/11/2024

PROJECT NO.

23001

SITE PLANS











SIGNATURE

Julien Elen

ANDREW BLUMM, DESIGNER



ISSUANCE



DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPDATES
2	CONTEXT STUDIES
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

DATE DATES 06/07/2024 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

FLOOR PLANS

**A2.1** 





NO.	DESCRIPTION
1	RENDERING UPD
2	CONTEXT STUD
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

![](_page_12_Picture_0.jpeg)

![](_page_12_Figure_1.jpeg)

NO.	DESCRIPTION
1	RENDERING UPE
2	CONTEXT STUE
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

# EXTERIOR MATERIAL PALETTE

![](_page_13_Picture_1.jpeg)

![](_page_13_Picture_2.jpeg)

![](_page_13_Picture_3.jpeg)

![](_page_13_Picture_4.jpeg)

![](_page_13_Picture_5.jpeg)

![](_page_13_Picture_7.jpeg)

![](_page_13_Picture_8.jpeg)

# EXTERIOR LIGHTING FIXTURES

![](_page_13_Picture_12.jpeg)

![](_page_13_Picture_13.jpeg)

![](_page_13_Picture_14.jpeg)

![](_page_13_Picture_15.jpeg)

WITH THE SURROUNDING LANDSCAPE

MASONRY.

 $\sim\sim\sim\sim\sim\sim$ 

 $\frac{\text{SOUTH ELEVATION}}{3/16" = 1'-0"}$ 

![](_page_13_Picture_23.jpeg)

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SIGNATURE

Julien Blan

ANDREW BLUMM, DESIGNER

![](_page_13_Figure_28.jpeg)

ISSUANCE

INITIAL APPLICATION

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPI
2	CONTEXT STUE
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

DATE DATES 06/07/2024 DIES 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

EXTERIOR ELEVATIONS

**A3.1** 

![](_page_14_Figure_0.jpeg)

**SECTION 3**  $\frac{1}{1} = 10'-0''$ 

 $\sim\sim\sim\sim\sim\sim$ 

![](_page_14_Picture_3.jpeg)

![](_page_14_Figure_4.jpeg)

![](_page_14_Figure_5.jpeg)

![](_page_14_Figure_6.jpeg)

![](_page_14_Picture_10.jpeg)

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 $\sim\sim\sim\sim$ 

SIGNATURE

Julie Eler

ANDREW BLUMM, DESIGNER

![](_page_14_Figure_15.jpeg)

ISSUANCE

![](_page_14_Figure_17.jpeg)

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UP
2	CONTEXT STU
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

 N
 DATE

 JPDATES
 06/07/2024

 JDIES
 06/13/2024

 07/03/2024
 09/11/2024

PROJECT NO.

23001

SECTIONS

![](_page_14_Picture_26.jpeg)

![](_page_15_Picture_0.jpeg)

![](_page_15_Picture_1.jpeg)

![](_page_15_Picture_3.jpeg)

SIGNATURE

Andren Elen

ANDREW BLUMM, DESIGNER

![](_page_15_Figure_8.jpeg)

ISSUANCE

INITIAL APPLICATION

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPD
2	CONTEXT STUDI
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

 DATE

 PDATES
 06/07/2024

 JDIES
 06/13/2024

 07/03/2024
 09/11/2024

PROJECT NO.

23001

![](_page_15_Picture_19.jpeg)

![](_page_16_Picture_0.jpeg)

![](_page_16_Picture_1.jpeg)

![](_page_16_Picture_3.jpeg)

![](_page_16_Picture_4.jpeg)

SIGNATURE

Andrengton

ANDREW BLUMM, DESIGNER

![](_page_16_Figure_9.jpeg)

ISSUANCE

INITIAL APPLICATION

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UP
2	CONTEXT STU
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

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 DATE

 UPDATES
 06/07/2024

 TUDIES
 06/13/2024

 07/03/2024
 09/11/2024

PROJECT NO.

23001

![](_page_16_Picture_20.jpeg)

![](_page_17_Picture_1.jpeg)

![](_page_17_Picture_2.jpeg)

![](_page_17_Picture_3.jpeg)

 $\sim\sim\sim\sim\sim$ 

SIGNATURE

Andren Elen

ANDREW BLUMM, DESIGNER

![](_page_17_Figure_8.jpeg)

ISSUANCE

INITIAL APPLICATION

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPD
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4	<b>REVISION 2</b>

 
 DATE

 PDATES
 06/07/2024
 DIES 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

3

![](_page_18_Picture_1.jpeg)

![](_page_18_Picture_2.jpeg)

![](_page_18_Picture_3.jpeg)

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Andren Fler

ANDREW BLUMM, DESIGNER

![](_page_18_Figure_8.jpeg)

ISSUANCE

INITIAL APPLICATION

DATE

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REVISIONS

NO.	DESCRIPTION
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 DATES
 06/07/2024

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 06/13/2024

 07/03/2024
 09/11/2024

PROJECT NO.

23001

![](_page_18_Picture_19.jpeg)

![](_page_19_Picture_0.jpeg)

4

![](_page_19_Picture_1.jpeg)

THERE BERGE

305 VISTA DE LA CUMBRE

![](_page_19_Picture_3.jpeg)

N.T.S.

![](_page_19_Picture_6.jpeg)

# 2 PROPOSED VIEW LOOKING NORTH FROM VISTA DE LA CUMBRE

![](_page_19_Picture_8.jpeg)

309 VISTA DE LA CUMBRE

313 VISTA DE LA CUMBRE

317 VISTA DE LA CUMBRE

321 VISTA DE LA CUMBRE

![](_page_19_Picture_13.jpeg)

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SIGNATURE

ANDREW BLUMM, DESIGNER

![](_page_19_Figure_18.jpeg)

ISSUANCE

![](_page_19_Figure_20.jpeg)

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPE
2	CONTEXT STUD
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

DATE DATES 06/07/2024 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

![](_page_19_Figure_28.jpeg)

![](_page_19_Picture_29.jpeg)

![](_page_20_Picture_0.jpeg)

326 VISTA DE LA CUMBRE ~200' (SAME BLOCK)

![](_page_20_Picture_2.jpeg)

333 CALLE LAURELES ~250' (ADJ. BLOCK)

![](_page_20_Picture_4.jpeg)

![](_page_20_Picture_5.jpeg)

477 PASEO DEL DESCANSO ~1100' (3 BLOCKS AWAY)

![](_page_20_Picture_7.jpeg)

310 ARGONNE CIRCLE ~1100' (3 BLOCKS AWAY)

![](_page_20_Picture_10.jpeg)

248 CALLE LAURELES ~300' (SAME BLOCK)

![](_page_20_Picture_12.jpeg)

3043 PASEO DEL DESCANSO ~600' (ONE BLOCK AWAY)

![](_page_20_Picture_15.jpeg)

345 VISTA DE LA CUMBRE ~500' (SAME BLOCK)

![](_page_20_Picture_17.jpeg)

232 VISTA DE LA CUMBRE ~300' (SAME BLOCK)

![](_page_20_Picture_19.jpeg)

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SIGNATURE

Julin Bla

ANDREW BLUMM, DESIGNER

![](_page_20_Figure_24.jpeg)

ISSUANCE

![](_page_20_Figure_26.jpeg)

DATE

04/23/2024

REVISIONS

NO.	DESCRIPTION
1	RENDERING UPE
2	CONTEXT STUD
3	<b>REVISION 1</b>
4	<b>REVISION 2</b>

DATE PDATES 06/07/2024 DIES 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

CONTEXT STUDIES

![](_page_20_Picture_35.jpeg)

![](_page_21_Picture_0.jpeg)

LOCAL SANTA BARBARA SANDSTONE EXAMPLE WALL MOCKUP -- NOTE: DRYSTACK SHOWN; BASIS OF DESIGN TO INCLUDE 3/4" - 1" MORTAR JOINT

![](_page_21_Picture_3.jpeg)

![](_page_21_Picture_4.jpeg)

local santa barbara sandstone raw material

![](_page_21_Figure_6.jpeg)

# EXTERIOR LIGHTING FIXTURES

![](_page_22_Picture_1.jpeg)

![](_page_22_Picture_2.jpeg)

![](_page_22_Picture_3.jpeg)

![](_page_22_Picture_4.jpeg)

![](_page_22_Picture_5.jpeg)

![](_page_22_Picture_6.jpeg)

EXT. LIGHT 'L4'

![](_page_22_Picture_11.jpeg)

![](_page_22_Picture_12.jpeg)

![](_page_22_Picture_13.jpeg)

START/END OF NEW 7' WOOD FENCE; _ START/END OF (E) 6' WOOD FENCE

 $\circ$ 

C

![](_page_22_Picture_14.jpeg)

![](_page_22_Picture_15.jpeg)

St. H.K.

![](_page_22_Picture_16.jpeg)

_____ SETBACK

![](_page_22_Figure_18.jpeg)

![](_page_22_Picture_19.jpeg)

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Andren Blen

ANDREW BLUMM, DESIGNER

![](_page_22_Figure_24.jpeg)

ISSUANCE

INITIAL APPLICATION

DATE

04/23/2024

REVISIONS	
NO.	DESCRIPTION
1	RENDERING UPDATES
2	CONTEXT STUDIES
3	REVISION 1

**REVISION 2** 

DATE DATES 06/07/2024 06/13/2024 07/03/2024 09/11/2024

PROJECT NO.

23001

PLANTING CONCEPT

1.1

![](_page_23_Picture_0.jpeg)

![](_page_23_Picture_1.jpeg)

![](_page_24_Picture_0.jpeg)

![](_page_24_Picture_1.jpeg)

![](_page_25_Picture_0.jpeg)

![](_page_25_Picture_1.jpeg)

![](_page_26_Picture_0.jpeg)

### SPRING EQUINOX

~1 HR BEFORE SUNSET • 6PM (PDT)

![](_page_27_Picture_0.jpeg)

![](_page_27_Picture_1.jpeg)

MORNING • 9AM (PDT)

![](_page_28_Picture_0.jpeg)

![](_page_28_Picture_1.jpeg)

MIDDAY • 12PM (PDT)

![](_page_29_Picture_0.jpeg)

![](_page_29_Picture_1.jpeg)

MID-AFTERNOON • 3PM (PDT)

![](_page_30_Picture_0.jpeg)

#### SUMMER SOLSTICE

~1 HR BEFORE SUNSET • 7PM (PDT)

![](_page_31_Picture_0.jpeg)

![](_page_31_Picture_1.jpeg)

![](_page_32_Picture_0.jpeg)

![](_page_32_Picture_1.jpeg)

![](_page_33_Picture_0.jpeg)

![](_page_33_Picture_1.jpeg)

![](_page_34_Picture_0.jpeg)

### AUTUMN EQUINOX

~1 HR BEFORE SUNSET • 6PM (PDT)

![](_page_35_Picture_0.jpeg)

![](_page_35_Picture_1.jpeg)

MORNING • 9AM (PST)

![](_page_36_Picture_0.jpeg)

![](_page_36_Picture_1.jpeg)

MIDDAY • 12PM (PST)

![](_page_37_Picture_0.jpeg)

![](_page_37_Picture_1.jpeg)

MID-AFTERNOON • 3PM (PST)

![](_page_38_Picture_0.jpeg)

#### WINTER SOLSTICE

~1 HR BEFORE SUNSET • 4PM (PST)