# 450 STUDIO

BUILDING INFORMATION:	PLAN SELECTION INFORMATION:	
OCCUPANCY GROUP: R-3	FLOOR PLAN: ROOF MATERIAL:	C
CONSTRUCTION TYPE: V-B		N
STORIES:	-STANDARD -COMPOSITION SHINGLES	F
BUILDING HEIGHT: 16' MAX		E
FLOOR AREA: 450 SF	EXTERIOR WALL MATERIAL:	R
COVERED PORCH: 128 SF	-STUCCO -FULL COLUMNS	F
FIRE SPRINKLERS: SITE SPECIFIC*	$\square -\frac{1}{2}$ Columns $\square -LAP$ siding	S
W.U.I.: YORN	EXTERIOR WINDOW TREATMENT: DEFERRED SUBMITTALS:	5
FLOOD ZONE:	-DECORATIVE SHUTTERS -FIRE SPRINKLERS WHEN	E
FLOOD ZONE:	-TRELLIS ABOVE WINDOWS REQUIRED	
FIRM PANEL #:	-SOLAR WHEN REQ.	5
	TITLE 24 ENERGY REQUIREMENTS:	5
BUILDING SHALL COMPLY WITH THE FOLLOWING CODE: CRC 2022, CEC 2022, CMC 2022, CPC	I. WINDOWS: U-FACTOR= 0.3 4. WATER HEATER: HEAT PUMP	5
2022, CFC 2022, CGBC 2022, CEnC 2022,	SHGC=0.23 SIZE: 40 GAL 2. INSULATION: WALLS= R-2I ENERGY FACTOR: 3.1	
AND ALL STATE, FEDERAL AND LOCAL ORDINANCES AS AMENDED BY THE LOCAL	FLOOR = SLAB, RAISED 5. HERS TESTING REQUIREMENTS:	
JURISDICTION.	ATTIC= R-38 PER CALCULATIONS RAFTERS= R-19 6. AIR CONDITIONING:	
* FIRE SPRINKLERS ARE REQUIRED IF THE HOUSE THAT THIS ADU IS ACCESSORY TO, HAS	3. ROOF REQUIREMENTS:HEATING: 9.5 HSPF2NO RADIANT BARRIERCOOLING: 16 SEER2	
FIRE SPRINKLERS OR WILL REQUIRE FIRE SPRINKLERS IF BEING NEWLY CONSTRUCTED.	VENTILATION= L SQ.FT. I2.5 EER2 DUCT LOCATION:	
	NONE	

A	iC

SHEET INDEX:	PAGES:	DESIGN (	CRITERIA:	PROJECT DESCR
COVER SHEET	CS	SEISMIC: EQUIVALENT LATERAL		
NOTE SHEETS	GNI - GN4	12.8	JRE, ASCE7-16, CHP	NEW CONSTRUCTION OF A 4 DETACHED, ACCESSORY DA
ELOOR PLAN	AI, AI.I	=		
ELEVATIONS	A2, A2.I	SS =	0.842	OWNER:
ROOF PLAN	A3, A3.I	SI =	0.355	
OUNDATION	A4, A4.I	SMS =	1.01	
GHEAR WALL & FRAMING PLAN	A5, A5.I	SMI =	NULL	
BECTIONS	A6, A6.1	SDS = 0.673		
ELECTRICAL	A7, A7.I	SDI = NULL		ADDRESS:
1ECHANICAL & PLUMBING	A8, A8.1	TL = 16		
STRUCTURAL NOTES	51	R0 =	1.3	
STRUCTURAL DETAILS	52 - 54	R =	6.5	
		SNOW LOAD =	O PSF	
	WIND: MAIN WIND FORCE RESISTING SYSTEM, ALL HEIGHTS METHOD,			
		ASCE7-16, CHP 2		APN #:
	WIND SPEED = 95 MPH			
		EXPOSURE =	C	
		ENCLOSURE =	ENCLOSED	

		(	Genero	al Notes
	DWELLING L 9, I BATH	JNIT	JACKSON AND SA ENGINEERING HAS THESE PLANS SOL USE FOR THE PRO ON THESE PLANS REPRESENT THAT ARE SUITABLE FO SITE WEATHER MO	NDS PROVIDED ELY FOR THE DJECT SPECIFIED & DOES NOT THESE PLANS PR ANY OTHER
			* ORI	KOTY Bright Filture C 1909
				SOME ERING, Inc. (530)115-7184
RIPTION:	YOU ASSUME ALL RESPONSIB		No. Revision 1 INITIAL SUE 2 PCI SUBM	
450 SQUARE FOOT, PWELLING UNIT	YOUR USE OF THESE PLANS, M PROVIDED "AS IS" WITHOUT R OR WARRANTIES OF ANY KIN EXPRESS OR IMPLIED, INCLUE OF TITLE, NON-INFRINGEMENT, WARRANTIES OF MERCHANTA FITNESS FOR A PARTICULAR WITHOUT LIMITATION OF THE F AGREE THAT IT IS YOUR REST ENSURE, PRIOR TO USE OF AN SUCH PLANS ARE ACCURATE, YOUR PURPOSES & COMPLIAN APPLICABLE LAWS. BY USING YOU AGREE TO DEFEND (WITH	REPRESENTATIONS D, EITHER DING WARRANTIES , OR IMPLIED BILITY OR PURPOSE. FOREGOING, YOU PONSIBILITY TO NY PLANS, THAT SUITABLE FOR NT WITH ALL 5 THESE PLANS		SS/04 STATES STATES SI31/25 ALLIFORNIT CALLIFORNIT DO/02/23
	CITY'S CHOOSING), INDEMNIFY EMPLOYEES, VOLUNTEERS, AC DESIGN PROFESSIONAL WHO THESE CONSTRUCTION DOCUM HARMLESS FROM ANY & ALL DEMANDS, CAUSES OF ACTIO EXPENSES, LIABILITY, LOSS, D INJURY OF ANY KIND, IN LAW PROPERTY OR PERSONS, INC. WRONGFUL DEATH, IN ANY MA OUT OF, PERTAINING TO, RELA INCIDENT TO ACCEPTANCE OF CONSTRUCTION DOCUMENTS.	* HOLD CITY, BENTS, & THE PREPARED IENTS, FREE & CLAIMS, N, COSTS, DAMAGE OR OR EQUITY, TO LUDING ANNER ARISING ATED TO, OR	ORLANE 450 SQ. FT. STUDIO ADU	D ADU
			Project 23M-007 Date 10/02/23 Scale AS NOTED	Sheet

### FLOOR PLAN NOTES

- I. WHEN AUTOMATIC FIRE SPRINKLERS ARE REQUIRED THROUGHOUT THE RESIDENCE, FIRE SPRINKLERS SHALL BE DESIGNED BY A CALIFORNIA CONTRACTOR CLASSIFICATION C-16. FIRE SPRINKLER SHALL BE REQUIRED IF THE PRIMARY RESIDENCE HAS FIRE SPRINKLERS. 2. EXTERIOR WALLS TO BE 2X6 DF NO. 2 STUDS AT 16" O.C. WITH R-21 INSULATION. SIDING/SHEAR AS SHOWN ON.
- 3. INTERIOR WALLS TO BE 2X4 DF NO.2 STUDS AT 16" O.C.
- 4. TYPICAL WALL HEIGHT IS  $9'O-\frac{3}{4}"$
- 5. IF POSSIBLE, TRY TO LOCATE WATER HEATER & AIR CONDITIONER CONDENSER TOWARDS THE INSIDE OF THE PARCEL OPPOSITE OF THE STREET VIEW SIDE OF THE ADU. 6. NO OPENING SHALL BE PERMITTED IN THE EXTERIOR WALLS, INCLUDING VENTS, OF GROUP R-3 OCCUPANCIES WHERE THE EXTERIOR WALL IS CLOSER THAN 5' TO THE PROPERTY LINE
- 2022 CRC TABLE R302.I(I) & TABLE R302.I(2) 7. LISTED INSTALLATION INSTRUCTION OR MANUALS SHALL BE ON SITE & AVAILABLE FOR PLUMBING, MECHANICAL, ELECTRICAL EQUIPMENT OR OTHER INSTALLATIONS DURING FIELD INSPECTION OF SPECIFIC APPLIANCES OR FEATURES.
- 8. RODENT PROOFING & INSECT INTRUSION PROTECTION. ANNULAR SPACES AROUND PIPES, ELECTRICAL CABLE CONDUITS OR OTHER OPENINGS IN BOTTOM/SOLE PLATE AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS IN ACCORDANCE WITH THE 2022 CAL GREEN BUILDING CODE, CHAPTER 4. DIVISION 4.4 SECTION 4.406.1 CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE BY THE ENFORCING AGENCY.

### <u>GREEN BUILDING</u>

- PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL & 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, ONE OR MORE OF THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO PREVENT FLOODING OF ADJACENT
- PROPERTY, PREVENT EROSION & RETAIN SOIL RUNOFF ON SITE. 2. RETENTION BASING OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON
- 3. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, COLLECTION POINT, GUTTER, OR SIMILAR DISPOSAL METHOD, WATER SHALL BE FILTERED BY A BARRIER SYSTEM, WATTLE, OR OTHER APPROVED METHOD.
- 4. ALL NEW RESIDENTIAL CONSTRUCTION WITH ATTACHED PRIVATE GARAGES SHALL HAVE THE FOLLOWING FOR ELECTRIC VEHICLE (EV) CHARGING STATION (CGBSC4.106.4) 4.1. INSTALL A MIN I" CONDUIT CAPABLE OF SUPPLYING A 208/240V BRANCH CIRCUIT TO A SUITABLE BOX LOCATION FOR EV CHARGING. THE OTHER END SHALL TERMINATE TO THE MAIN SERVICE # /OR SUBPANEL.
- 4.2. THE MAIN PANEL \$/OR SUBPANEL SHALL BE OF SUFFICIENT SIZE TO INSTALL A 40AMP DEDICATED BRANCH CIRCUIT. LABEL "EV CAPABLE" 5. MULTIPLE SHOWER HEADS SERVING A SINGLE SHOWER SHALL HAVE A COMBINED FLOW
- RATE OF 1.8 gpm OR THE SHOWER STALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO OPERATE AT A TIME (CGBSC4.303.1.3.2)
- 6. RESIDENTIAL PROJECTS WITH AN AGGREGATE LANDSCAPE AREA EQUAL TO OR GREATER THAN 500FT<sup>2</sup> SHALL COMPLY WITH EITHER A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS MORE STRINGENT. AUTOMATIC IRRIGATION SYSTEM CONTROLLERS INSTALLED AT TIME OF FINAL INSPECTION SHALL HAVE WEATHER OR SOIL BASED CONTROLLERS \$ /OR WEATHER BASED CONTROLLERS WITH RAIN SENSORS. SOIL MOISTURE BASED CONTROLLERS ARE NOT
- REQUIRED TO HAVE RAIN SENSOR INPUT. (CGBSC4.304) RECYCLE #/OR REUSE A MIN OF 65% OF NON-HAZARDOUS CONSTRUCTION # DEMOLITION WASTE (CGBSC 4.408.2)
- 8. AT TIME OF FINAL INSPECTION, A BUILDING OPERATION & MAINTENANCE MANUAL, COMPACT DISC, ETC SHALL BE PROVIDED CONTAINING THE FOLLOWING: 8.1. DIRECTIONS THAT MANUAL SHALL REMAIN ONSITE FOR THE LIFE OF THE BUILDING 8.2. OPERATION & MAINTENANCE INSTRUCTIONS FOR EQUIPMENT, APPLIANCES, ROOF/YARD DRAINAGE, IRRIGATION SYSTEMS, ETC.
- 8.3. INFORMATION FROM LOCAL UTILITY, WATER & WASTE RECOVERY PROVIDERS 8.4. PUBLIC TRANSPORTATION & CARPOOL OPTIONS
- 8.5. MATERIAL REGARDING IMPORTANCE OF KEEPING HUMIDITY LEVELS BETWEEN 30-60%. 8.6. INFORMATION REGARDING ROUTINE MAINTENANCE PROCEDURES 8.7. STATE SOLAR ENERGY INCENTIVE PROGRAM INFORMATION
- 8.8. A COPY OF ANY REQUIRED SPECIAL INSPECTION VERIFICATIONS THAT WERE REQUIRED
- (IF ANY) 9. CLEARLY NOTE ON THE PLANS HOW THE PROJECT WILL MEET MIN POLLUTANT CONTROL REQUIREMENTS FOR ADHESIVES, SEALANTS, CAULKS, PAINTS, CARPET, RESILIENT FLOORING SYSTEMS, ETC (CGBSC 4.504)
- IO. DUCT OPENING RELATED TO HVAC SYSTEMS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS TO REDUCE THE AMOUNT OF WATER, DUST & DEBRIS WHICH MAY ENTER THE SYSTEM (CGBSC 4.504.1

### DECK & EXPOSED CONSTRUCTION

- I. ALL EXPOSED WOOD SHALL BE OF NATURALLY DURABLE WOOD OR WOOD THAT IS PRESERVATIVE TREATED IN ACCORDANCE WITH AWPA UI FOR THE SPECIES, PRODUCT, PRESERVATIVE & END USE. (CRC SECTION R317.1)
- 2. POSTS/COLUMNS SHALL BE RETRAINED AT THE BOTTOM END TO PREVENT LATERAL DISPLACEMENT, CLEARLY SHOW APPROVED POST BASES, STRAPS, ETC TO ACHIEVE THIS PER CRC R407.3
- 3. ALL HARDWARE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR Z-MAX COATED (G-185). ALL FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIP GALVANIZED (CRC R317.3) 4. PROVIDE 2X BLOCKING AT SUPPORTS
- 5. EXTERIOR STAIRS, BALCONIES, DECKS, ETC SHALL BE ATTACHED TO THE PRIMARY STRUCTURE WITH LAG SCREWS OR EQUIVALENT ATTACHMENT THAT WILL RESIST AGAINST WITHDRAWAL & VERTICAL LATERAL FORCES OR SHALL BE DESIGNED TO BE SELF-SUPPORTING (CRC R311.5)
- 6. GUARDS ARE REQUIRED IF DECK OR FLOOR IS OVER 30" ABOVE GRADE, MIN 42" HIGH, WITH OPENINGS LESS THAN 4" (CRC R312). GUARDRAILS SHALL BE DESIGNED & DETAILED FOR LATERAL FORCES ACCORDING TO CRC TABLE 301.5
- 7. PROVIDE DECK LATERAL LOAD CONNECTIONS AT EACH END OF THE DECK & AT DECK INTERSECTIONS PER CRC R507.2.4 CONNECTORS SHALL HAVE A MIN ALLOWABLE STRESS DESIGN CAPACITY OF 1,500LBS & INSTALL WITH 24" OF THE END OF THE DECK. 750LBS RATED DEVICES ARE ALLOWED (DTTIZ AS EXAMPLE) IF LOCATED EVENLY AT 4 POINTS ALONG THE DECK

### GARAGE & CARPORT

- GARAGE SHALL BE SEPARATED FROM THE DWELLING UNIT & ATTIC AREA BY  $\frac{1}{2}$ " GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGE BENEATH HABITABLE ROOMS SHALL BE SEPARATED BY NOT LESS THAN & TYPE X GYPSUM BOARD. STRUCTURE SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR REQUIRED SEPARATIONS SHALL HAVE 1 GYPSUM BOARD INSTALLED MIN. DOOR OPENINGS FROM THE GARAGE TO THE DWELLING SHALL BE SOLID WOOD/STEEL DOORS OR HONEYCOMB STEEL DOORS NOT LESS THAN IS THICK OR A 20-MINUTE RATED FIRE DOOR. DOORS SHALL BE SELF-CLOSING & SELF-LATCHING. NO OPENINGS DIRECTLY INTO A SLEEPING ROOM FROM THE GARAGE. WHEN THE DWELLING \$ GARAGE HAS FIRE SPRINKLERS INSTALLED PER R309.6 & R313, DOORS INTO THE DWELLING UNIT FROM THE GARAGE ONLY NEED TO BE SELF-CLOSING & SELF-LATCHING. (CRC R302.5.1 & T-R302.6) (CARPORTS OPEN ON TWO OR MORE SIDES & NO ENCLOSED AREAS ABOVE DO NOT REQUIRE A SEPARATION).
- 2. DUCTS PENETRATING THE GARAGE TO DWELLING SEPARATION SHALL BE A MIN OF 26 GAUGE WITH NO OPENINGS INTO THE GARAGE. (CRC R302.5.2)
- 3. PENETRATIONS THROUGH THE GARAGE TO DWELLING SEPARATION WALL (OTHER THAN DUCTS AS LISTED ABOVE) SHALL BE FIRE-BLOCKED PER CRC SECTION R302.11, ITEM #4. 4. GARAGE & CARPORT FLOOR SURFACES SHALL BE NON-COMBUSTIBLE MATERIAL & SLOPE
- TO DRAIN TOWARDS THE GARAGE DOOR OPENING. (CRC R309.1 5. APPLIANCES & RECEPTACLES INSTALLED IN GARAGE GENERATING A GLOW, SPARK OR FLAME SHALL BE LOCATED 18" ABOVE FLOOR UNLESS IT IS LISTED AS FLAMMABLE VAPOR IGNITION RESISTANT. PROVIDE PROTECTIVE POST OR OTHER IMPACT BARRIER FROM VEHICLES (CMC 308.0).

### EXTERIOR BUILDING FINISH

ATTIC GABLE & EAVES ABOVE 12' & UNDER FLOOR VENTILATION SHALL BE PROVIDED WITH FULLY COVERED METAL WIRE MESH, VENTS, OR OTHER MATERIALS THAT HAVE A MIN 占 🕯 MAX 1/2" OPENINGS, NON-COMBUSTIBLE & CORROSION RESISTANT. ALL OTHER EAVE VENTS SHALL BE LISTED/APPROVED TO RESIST THE INTRUSION OF FLAME & BURNING EMBERS. (CRC337.6.2)

- LATERAL DISPLACEMENT. (CRC R502.9 & CBC 2304.9.7)
- 2. ALL FASTENERS USED FOR ATTACHMENT OF SIDING & INTO PRESSURE TREATED LUMBER SHALL BE OF A CORROSION RESISTANT TYPE (CRC R317.3).
- 3. FIRE-BLOCK IN CONCEALED SPACES OF STUD WALLS/PARTITIONS, VERTICALLY AT CEILING/FLOOR LEVELS, & HORIZONTALLY AT IO'. INTERVALS. FIRE-BLOCK AT SOFFITS, DROP CEILINGS/SIMILAR LOCATIONS & IN CONCEALED SPACES AT THE TOP/BOTTOM OF STAIR STRINGERS. (CRC R302.11)
- 4. PROVIDE APPROVED BUILDING PAPER UNDER THE BUILDING SIDING & APPROVED FLASHING AT EXTERIOR OPENINGS (CRC R703.2). SPECIFY A MIN OF 2 LAYERS OF GRADE D PAPER UNDER STUCCO # 2 LAYERS OF 15LB FELT (OR EQUIVALENT) UNDER STONE VENEER. 5. STUCCO SHALL HAVE A MIN CLEARANCE TO EARTH OF 4" & 2" TO PAVED SURFACES WITH AN APPROVED WEEP SCREED. (CRC R703.7.2.1) MASONRY STONE VENEER SHALL BE FLASHED BENEATH THE FIRST COURSE OF MASONRY & PROVIDED WITH WEEP HOLES
- IMMEDIATELY ABOVE THE FLASHING (CRC R703.8.5 \$ R703.8.6) 6. FLOORS & WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS & IN SHOWER
- COMPARTMENTS SHALL BE FINISHED WITH A NON ABSORBENT SURFACE & SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6' ABOVE FINISHED FLOOR (CRC R307.2)

### STAIRWAYS & RAMPS EXTERIOR STAIR STRINGERS MUST BE NATURALLY RESISTANT TO DECAY OR PRESSURE

- TREATED. (CRC R317.1) RISE SHALL BE MAX  $7_4^3$ "; RUN SHALL BE IO" MIN; HEADROOM 6'-8" MIN; WIDTH 36" MIN,  $31_2^1$ " BETWEEN A HANDRAIL ON ONE SIDE # 27" WITH HANDRAILS ON TWO SIDES. VARIATION BETWEEN RISER HEIGHTS  $\frac{2}{3}$ " MAX. A NOSING NOT LESS THAN  $\frac{2}{3}$ " BUT NOT MORE THAN  $|\frac{1}{4}|$ " SHALL BE PROVIDED ON STAIRWAYS WITH SOLID RISERS WHERE THE TREAD DEPTH IS LESS THAN II". THE LEADING EDGE OF TREADS SHALL PROJECT NOT MORE THAN  $I_4^{T}$  BEYOND THE TREAD BELOW. OPEN RISERS ARE PERMITTED, PROVIDED THE OPENING BETWEEN THE TREADS DOES NOT PERMIT THE PASSAGE OF A 4" SPHERE. (OPENINGS ARE NOT LIMITED WHEN THE STAIR HAS A RISE OF 30" OR LESS). (CRC R311.7)
- 3. STAIRWAYS WITH 4 OR MORE RISERS SHALL HAVE A HANDRAIL ON ONE SIDE 34-38" ABOVE THE TREAD NOSING. CIRCULAR HANDRAILS SHALL HAVE AN OUTSIDE DIAMETER OF  $|\frac{1}{4}-2|$ ; IF NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF 4-6 $\frac{1}{4}$ " WITH A MAX CROSS-SECTIONAL DIMENSION OF  $2\frac{1}{4}$ ". SEE R311.7.8.3 ITEM #2 FOR TYPE 11 HANDRAILS WITH A PARAMETER OVER  $6\frac{1}{4}$ . A MIN CLEARANCE OF  $1\frac{1}{2}$ " SHALL BE MAINTAINED FROM THE WALL OR OTHER SURFACE. HANDRAILS SHALL BE RETURNED, TERMINATE IN NEWEL POSTS, OR SAFETY TERMINALS. (CRC R311.7.8.2)
- 4. GUARDS SHALL BE 42" MIN HEIGHT (UNLESS ACTING AS A HANDRAIL/GUARD FOR A STAIRWAY; THE GUARD HEIGHT MAY BE 34-38" IN HEIGHT), WITH OPENINGS LESS THAN 4" CLEAR (GUARDS ON THE OPEN SIDES OF STAIRS MAY HAVE 43" OPENINGS). (CRC R312) 5
- THE DEPTH OF THE LANDING SHALL BE 36" MIN. (SEE CRC R311.7.6 FOR EXCEPTIONS). 6. USABLE SPACES UNDERNEATH ENCLOSED/UNENCLOSED STAIRWAYS SHALL BE PROTECTED
- BY A MIN OF  $\frac{1}{2}$ " GYPSUM BOARD. (CRC R302.7) RAMPS SERVING THE EGRESS DOOR SHALL HAVE A SLOPE OF NOT MORE THAN I UNIT VERTICAL IN 12 UNITS HORIZONTAL (8.3% SLOPE). ALL OTHER RAMPS SHALL HAVE A MAX SLOPE OF I UNIT VERTICAL IN & UNITS HORIZONTAL (12.5% SLOPE). EXCEPTION: WHERE IT IS TECHNICALLY INFEASIBLE TO COMPLY BECAUSE OF SITE CONSTRAINTS, RAMPS SHALL HAVE A SLOPE OF NOT MORE THAN I UNIT VERTICAL IN & UNITS HORIZONTAL (12.5% SLOPE) (CRC R311.8.1). PROVIDE 3'X3' LANDINGS AT THE TOP & BOTTOM OF RAMPS, WHERE DOORS OPEN ONTO RAMPS, & WHERE RAMPS CHANGE DIRECTIONS. (CRC R311.8)

# PROVIDE EACH BEDROOM, BASEMENT, & HABITABLE ATTICS WITH A MIN OF ONE EXTERIOR

- WINDOW WITH A 44" MAX CLEAR OPENING HEIGHT, 5.7FT<sup>2</sup> MIN CLEAR OPENABLE AREA (MIN 5FT<sup>2</sup> AT GRADE FLOOR OPENINGS), 24" MIN CLEAR OPENABLE HEIGHT & 20" MIN CLEAR WIDTH, OR AN OPENABLE EXTERIOR EXIT DOOR. (CRC R310.2.1 & CRC R310.2.2) WINDOW WELLS, LADDERS, & STEPS SHALL COMPLY WITH CRC R310.2.3. BARS, GRILLES, COVERS, & SCREENS SHALL BE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE, OR FORCE GREATER THAN I5LBS TO OPERATE THE EMERGENCY ESCAPE & RESCUE OPENINGS. (CRC R310.4)
- 2. EACH BATHROOM CONTAINING A BATHTUB, SHOWER OR TUB/SHOWER COMBINATION SHALL BE MECHANICALLY VENTILATED WITH ENERGY STAR APPROVED EQUIPMENT (MIN 50CFM) WITH AN INTEGRAL HUMIDISTAT INSTALLED. (CRC R303.3.1)
- 3. PROVIDE ATTIC CROSS VENTILATION: 1/150 OF ATTIC AREA OR 1/300 WITH AT LEAST 40% BUT MORE THAN 50% OF VENTS ARE 3' ABOVE EAVE & BALANCE IS AT EAVE. AS AN ALTERNATIVE IN CLIMATE ZONE 16 (TRUCKEE REGION), THE NET AREA MAY BE REDUCED TO 1/300 WHEN A CLASS I OR II VAPOR BARRIER IS INSTALLED ON THE WARM-IN-WINTER SIDE OF THE CEILING. BAFFLES ARE REQUIRED AT VENTS FOR INSULATION. PROVIDE MIN OF I" OF AIR SPACE BETWEEN INSULATION & ROOF SHEATHING. (CRC R806) 4. ENCLOSED RAFTER SPACES SHALL HAVE I" CLEAR CROSS VENTILATION. (PROPERLY SIZED
- RAFTERS FOR INSULATION) (CRC R806.3)
- WHEN A CLASS I VAPOR RETARDER IS INSTALLED ON THE GROUND SURFACE THE MIN AREA OF VENTILATION MAY BE LIMITED TO IFT<sup>2</sup> FOR EACH 1,500FT<sup>2</sup> OF UNDER-FLOOR SPACE. ONE VENTILATION OPENING SHALL BE WITHIN 3' OF EACH CORNER OF THE BUILDING (CRC R408.1). UNVENTED CRAWL SPACES SHALL COMPLY WITH CRC R408.3. 6. THE FOLLOWING AREAS SHALL HAVE SAFETY GLAZING: (CRC R308.4) • SLIDING/SWINGING
- GLASS DOORS 6.1. GLAZING IN WALLS & ENCLOSURES FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS,
- THAN 60" ABOVE THE STANDING SURFACE WITHIN THE COMPARTMENT & WITHIN 60" HORIZONTALLY OF THE WATER'S EDGE (CRC R308.4.5)
- 6.2. IN ALL FIXED & OPERABLE PANELS OF SWINGING, SLIDING & BI-FOLD DOORS 6.3. GLAZING WITHIN A 24" ARC OF A DOOR THAT IS LESS THAN 60" ABOVE THE FLOOR. GLAZING INSTALLED PERPENDICULAR TO A DOOR IN A CLOSED POSITION & WITHIN 24" OF THE DOOR ONLY REQUIRES SAFETY GLAZING IF IT IS ON THE HINGE SIDE OF AN IN-SWING DOOR. (CRC R308.4.2).
- 6.4. GLAZING WHERE THE EXPOSED AREA IS GREATER THAN 9FT<sup>2</sup>, BOTTOM IS LESS THAN 18" & AT LEAST 36" ABOVE THE FLOOR, & ADJACENT TO A WALKING SURFACE. 6.5. WITHIN 60" OF THE BOTTOM TREAD OF A STAIRWAY & LESS THAN 36" ABOVE THE LANDING.
- 6.6. GLAZING IN GUARDS & RAILINGS.

STAIRWAY. (CRC R311.3-R311.3.2)

- 6.7. GLAZING ADJACENT TO STAIRWAYS, LANDINGS, & RAMPS WITHIN 36" HORIZONTALLY OF THE WALKING SURFACE LESS THAN 36" ABOVE THE WALKING SURFACE. PROVIDE LANDINGS & A PORCH LIGHT AT ALL EXTERIOR DOORS. LANDINGS ARE TO BE MIN 3' DEEP X WIDTH OF DOOR. LANDINGS AT REQUIRED EGRESS DOORS MAY STEP DOWN A MAX OF  $7\frac{3}{2}$ " WHEN THE DOOR DOES NOT SWING OVER THE LANDING #  $1\frac{1}{2}$ " WHEN DOOR SWINGS ONTO THE LANDING. OTHER THAN REQUIRED EXTERIOR EXIT DOORS MAY HAVE A THRESHOLD OF 73" MAX; A LANDING IS NOT REQUIRED IF A STAIR WITH TWO OR FEWER
  - CLEARANCES & TREATMENT FOR WOOD FRAMING
- WEATHER EXPOSED GLULAM, BEAMS & POSTS SHALL BE PRESSURE TREATED OR SHALL BE WOOD OF NATURAL RESISTANCE TO DECAY (CRC R317.1.3 \$ 5) 2. COLUMNS EXPOSED TO THE WEATHER OR IN BASEMENTS WHEN SUPPORTED ON CONCRETE PIER OR METAL PEDESTALS SHALL BE PRESSURE TREATED OR NATURAL RESISTANCE TO DECAY UNLESS THE PIER/PEDESTALS PROJECT I" ABOVE CONCRETE OR 6" ABOVE EARTH &
- EXC.) COLUMNS IN ENCLOSED CRAWL SPACES OR UNEXCAVATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING SHALL BE PRESSURE TREATED OR NATURAL RESISTANCE TO DECAY UNLESS THE COLUMN IS SUPPORTED BY A CONCRETE PIER OR METAL PEDESTAL OF A HEIGHT &" OR MORE & THE EARTH IS COVERED BY AN IMPERVIOUS MOISTURE BARRIER.
- (CRC R317.1.4 EXC. 2) 4. DECK POSTS SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS PROJECTING NOT LESS THAN I" ABOVE A CONCRETE FLOOR OR 6" ABOVE EXPOSED EARTH. (CRC R317.1.4 EXC. 3)

# I. UNDER FLOOR AREAS WITH STORAGE, FUEL-FIRED EQUIPMENT OR ELECTRICAL POWERED

- EQUIPMENT WITH JOISTS LESS THAN 2×10 SOLID LUMBER SHALL BE PROTECTED ON THE UNDERSIDE BY 1 SHEETROCK OR SPRINKLER SYSTEM. (R302.13)
- AREA. AT LEAST ONE VENT OPENING SHALL BE WITHIN 3' OF EACH CORNER OF THE BUILDING
- 3. BALCONIES & DECKS MUST BE DESIGNED FOR A MIN LIVE LOAD OF 60LBS/FT<sup>2</sup>. (CRC T-R301.5)

I. POSITIVE POST TO BEAM CONNECTION SHALL BE PROVIDED TO ENSURE AGAINST UPLIFT #

PROVIDE LANDINGS AT THE TOP/BOTTOM OF THE STAIRWAY THE WIDTH OF THE STAIRWAY.

5. UNDER FLOOR CROSS VENTILATION: MIN IFT<sup>2</sup> FOR EACH ISOFT<sup>2</sup> OF UNDER FLOOR AREA.

STEAM ROOMS, BATHTUBS, SHOWERS & SWIMMING POOLS WHERE THE GLAZING IS LESS

RISERS IS LOCATED ON THE EXTERIOR SIDE & THE DOOR DOES NOT SWING OVER THE

THE EARTH IS COVERED BY AN APPROVED IMPERVIOUS MOISTURE BARRIER. (CRC R317.1.4

2. UNDER FLOOR VENTILATION AREA EQUAL TO IFT<sup>2</sup> OF VENTS TO EVERY 150FT<sup>2</sup> OF FLOOR

### ENERGY STORAGE SYSTEMS 2022 CRC SEC. R328

- ENERGY STORAGE SYSTEMS (ESS) SHALL COMPLY WITH THE PROVISIONS OF THIS SECTION. 2. ENERGY STORAGE SYSTEMS SHALL BE LISTED & LABELED IN ACCORDANCE WITH UL 9540. 3. ESS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS # THEIR LISTING. INDIVIDUAL UNITS SHALL BE SEPARATED FROM EACH OTHER BY NOT LESS THAN 3'.
- 4. ESS SHALL BE INSTALLED ONLY IN THE FOLLOWING LOCATIONS:
- 4.1. DETACHED GARAGES & DETACHED ACCESSORY STRUCTURES.
- 4.2. ATTACHED GARAGES SEPARATED FROM THE DWELLING UNIT LIVING SPACE IN ACCORDANCE WITH SEC. R302.6. 4.3. OUTDOORS OR ON THE EXTERIOR SIDE OF EXTERIOR WALLS LOCATED NOT LESS THAN
- 3' FROM DOORS & WINDOWS DIRECTLY ENTERING THE DWELLING UNIT. 4.4. ENCLOSED UTILITY CLOSETS, BASEMENTS, STORAGE OR UTILITY SPACES WITHIN DWELLING UNITS THAT HAVE FINISHED OR NON-COMBUSTIBLE WALLS & CEILING. WALLS
- \$ CEILINGS SHALL HAVE ┋" TYPE-X GYPSUM BOARD. ESS SHALL NOT BE INSTALLED IN SLEEPING ROOMS, OR CLOSETS OR SPACES OPENING DIRECTLY INTO SLEEPING ROOMS OR IN HABITABLE SPACES OF THE DWELLING.
- 5. INDIVIDUAL ESS UNITS SHALL HAVE A MAX RATING OF 20KWh. THE AGGREGATE RATING OF THE ESS SHALL NOT EXCEED: 5.1. 40KWH WITHIN UTILITY CLOSETS, BASEMENTS & STORAGE OR UTILITY SPACES. 5.2. 80KWh IN ATTACHED OR DETACHED GARAGES & DETACHED ACCESSORY STRUCTURES.
- 5.3. 80kWh ON EXTERIOR WALLS 5.4. 80KWh OUTDOORS ON THE GROUND
- 6. ESS SHALL BE INSTALLED IN ACCORDANCE WITH THE CEC. INVERTERS SHALL BE LISTED \$ LABELED IN ACCORDANCE WITH UL 1741 OR PROVIDED AS PART OF THE UL 9540 LISTING. SYSTEMS CONNECTED TO THE UTILITY GRID SHALL USE INVERTERS LISTED FOR UTILITY INTERACTION.
- ROOMS & AREAS WITHIN DWELLING UNITS, BASEMENTS & ATTACHED GARAGES IN WHICH ESS ARE INSTALLED SHALL BE PROTECTED BY SMOKE ALARMS IN ACCORDANCE WITH SEC. R314. A HEAT DETECTOR, LISTED & INTERCONNECTED TO THE SMOKE ALARMS, SHALL BE INSTALLED IN LOCATIONS WITHIN DWELLING UNITS & ATTACHED GARAGES WHERE SMOKE ALARMS CANNOT BE INSTALLED BASED ON THEIR LISTING.
- 8. ESS INSTALLED IN A LOCATION SUBJECT TO VEHICLE DAMAGE IN ACCORDANCE WITH SECTION R328.8.1 OR R328.8.2 SHALL BE PROVIDED WITH IMPACT PROTECTION IN ACCORDANCE WITH SECTION R328.8.3.
- 9. INDOOR INSTALLATIONS OF ESS THAT PRODUCE HYDROGEN OR OTHER FLAMMABLE GASES DURING CHARGING SHALL BE PROVIDED WITH MECHANICAL VENTILATION IN ACCORDANCE WITH THE CMC.
- IO. THE TEMPORARY USE OF AN OWNER OR OCCUPANT'S ELECTRIC-POWERED VEHICLE TO POWER A DWELLING UNIT WHILE PARKED IN AN ATTACHED OR DETACHED GARAGE OR OUTDOOR SHALL COMPLY WITH THE VEHICLE MANUFACTURER'S INSTRUCTIONS & THE CEC.
- II. THE FOLLOWING INFORMATION SHALL BE PROVIDED II.I. A COPY OF THE MANUFACTURER'S INSTALLATION, OPERATION, MAINTENANCE \$ DECOMMISSIONING INSTRUCTIONS SHALL BE PROVIDED TO THE OWNER OR PLACED IN
- A CONSPICUOUS LOCATION NEAR THE ESS EQUIPMENT. 1.2. A LABEL ON THE INSTALLED SYSTEM CONTAINING THE CONTACT INFORMATION FOR THE QUALIFIED MAINTENANCE & SERVICE PROVIDERS.
- 12. ESS THAT HAVE THE POTENTIAL TO RELEASE TOXIC OR HIGHLY TOXIC GAS DURING CHARGING, DISCHARGING & NORMAL USE CONDITIONS SHALL NOT INSTALLED WITHIN GROUP R-3 OR R-4 OCCUPANCIES.
- 13. ESS INSTALLED IN LOCATIONS SUBJECT TO VEHICLE DAMAGE SHALL BE PROVIDED WITH IMPACT PROTECTION (CRC R328.8)

### ELECTRICAL NOTES

- THE PANEL BOARD(S) SHALL BE PROVIDED WITH A CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION. 2022 CEC ART. 408.3(F). EVERY CIRCUIT & CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, & SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE AN APPROVED DEGREE OF DETAIL THAT ALLOWS EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. SPARE POSITIONS THAT CONTAIN UNUSED OVER CURRENT DEVICES OR SWITCHES SHALL BE DESCRIBED ACCORDINGLY. THE IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OR INSIDE OF THE PANEL DOOR IN THE CASE OF A PANELBOARD & AT EACH SWITCH OR CIRCUIT BREAKER IN A SWITCHBOARD OR SWITCHGEAR. NO CIRCUIT SHALL BE DESCRIBED IN A MANNER THAT DEPENDS ON TRANSIENT CONDITIONS OF OCCUPANCY.
- 2. LISTED INSTALLATION INSTRUCTION OR MANUALS SHALL BE ON SITE & AVAILABLE FOR PLUMBING, MECHANICAL, ELECTRICAL EQUIPMENT OR OTHER INSTALLATIONS DURING FIELD INSPECTION OF SPECIFIC APPLIANCES OR FEATURES. 3. PHOTOVOLTAIC GENERATING SYSTEMS IS REQUIRED BY CEC SECTION 150.1(C)14
- INSTALLATION OF SOLAR PANELS REQUIRED PRIOR CERTIFICATE OF OCCUPANCY CAN BE ISSUED FOR THIS ADU. A SEPARATE PERMIT IS REQUIRED.
- 4. AT LEAST ONE 120-VOLT, 20-AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY A BATHROOM OUTLET(S). SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS. (EXCEPTION-WHERE THE CIRCUIT SUPPLIES A SINGLE BATHROOM, OUTLETS FOR OTHER EQUIPMENT WITHIN THE SAME BATHROOM SHALL BE PERMITTED TO BE SUPPLIED.) CEC 210.11(C(1)) \$ 210.52
- 5. ALL 15-20 AMP KITCHEN RECEPTACLES THAT ARE DESIGNED TO SERVE COUNTERTOP SURFACES, DISHWASHERS, BATHROOMS, IN UNDER-FLOOR SPACES OR BELOW GRADE LEVEL, IN EXTERIOR OUTLET, WITHIN 6' OF A LAUNDRY/UTILITY/WET BAR SINKS, LAUNDRY AREAS SPECIFIED SHALL HAVE (GFCI) GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. 2022 CEC Art. 210.3(A)
- 6. RECEPTACLES SHALL NOT BE INSTALLED WITHIN OR DIRECTLY OVER A BATHTUB OR SHOWER STALL. 2022 CEC Art. 406.9(C). LIGHT PENDANTS, CEILING FANS, LIGHTING TRACKS, ETC. SHALL NOT BE LOCATED WITHIN 3' HORIZONTALLY & & VERTICALLY ABOVE
- A SHOWER \$/OR BATHTUB THRESHOLD. 2022 CEC Art. 410.10(D) 7. FIXTURES, LAMP HOLDER & RECEPTACLES OUTLETS SHALL BE SECURELY SUPPORTED. A FIXTURE THAT WEIGHTS MORE THAN 6LBS OR EXCEEDS 16" IN ANY DIMENSION SHALL NOT BE SUPPORTED BY THE SCREW SHELL OF A LAMP HOLDER. 2022 CEC Art. 410.30(a) OUTLET BOXES SHALL NOT BE USED AS THE SOLE SUPPORT FOR CEILING (PADDLE) FANS. 2022 CEC Art. 314.27(A)\$(D)
- 8. OUTLETS IN KITCHEN MUST BE INSTALLED IN EVERY COUNTER SPACE 12" OR WIDER, NOT GREATER THAN 4' O.C. WITHIN 24" OF THE END OF ANY COUNTER SPACE & NOT HIGHER THAN 20" ABOVE COUNTER (CEC 210.52(C))
- 9. TWO SMALL APPLIANCE 20-AMP BRANCH CIRCUITS ARE REQUIRED FOR THE KITCHEN \$ ARE LIMITED TO SUPPLYING WALL & COUNTER SPACE OUTLETS FOR THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, & SIMILAR AREAS. NOTE: THE CIRCUITS CANNOT SERVE OUTSIDE PLUGS, RANGE HOOD, DISPOSALS, DISHWASHER OR MICROWAVES - ONLY THE REQUIRED COUNTERTOP/WALL OUTLETS INCLUDING THE REFRIGERATOR. CEC 210.11(C(1)) \$
- 210.52(B) 10. ALL 120V SINGLE PHASE 15-20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS (I.E. RECEPTACLES, LIGHTS, SMOKE DETECTORS, ETC) INSTALLED IN DWELLING UNIT KITCHEN, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED COMBINATION-TYPE ARC-FAULT CIRCUIT INTERRUPTER, INSTALLED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH
- CIRCUIT, (CEC 210.12(A)) DEDICATED 20-AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S). CEC 210.11(C)(2). (THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS, 12. GROUNDING & BONDING OF ELECTRICAL INSTALLATIONS SHALL COMPLY WITH CEC ART.
- 13. BOND ALL METAL GAS & WATER PIPES TO GROUND. ALL GROUND CLAMPS SHALL BE ACCESSIBLE & OF AN APPROVED TYPE. (CEC 250.104)
- 14. PACIFIC GAS & ELECTRIC COMPANY APPROVAL IS REQUIRED FOR ELECTRICAL METER LOCATION PRIOR TO INSTALLATION. PANEL LOCATION SUBJECT TO SITE SPECIFIC CONDITIONS & SERVING UTILITY APPROVAL WHERE THIS PLAN IS USED
- 15. AFTER BUILDING PERMIT HAS BEEN ISSUED, THE OWNER \$/OR CONTRACTOR SHALL APPLY FOR ELECTRICAL & UTILITY GAS SERVICE REQUEST TO PACIFIC GAS & ELECTRIC COMPANY
- 16. ALL NON-LOCKING TYPE 125-VOLT 15-20AMP RECEPTACLES IN THE DWELLING SHALL BE TAMPER-RESISTANT. (CED Art. 406.12)
- 17. RECEPTACLES SHALL BE INSTALLED AT 12' O.C. MAX IN WALLS STARTING AT 6' MAX FROM THE WALL END. WALLS LONGER THAN 2' SHALL HAVE A RECEPTACLE. HALLWAY WALLS LONGER AN IO' SHALL HAVE A RECEPTACLE IN HALLWAY. (CEC Art. 210.52(A) 18. ELECTRICAL RECEPTACLES OUTLETS, SWITCHES & CONTROLS FOR OCCUPANTS USE SHALL
- BE NO MORE THAN 48" & NOT LESS THAN 15" ABOVE FINISH FLOOR (R327.1.2)

- I. PROVIDE A MIN 22"x30" ACCESS OPENING TO ATTIC (CRC R807); MAY BE REQUIRED TO BE 30"X30" TO REMOVE THE LARGEST PIECE OF MECHANICAL EQUIPMENT PER THE CMC. 2. ATTIC VENTILATION TO BE INSTALLED TO PROVIDE IFT<sup>2</sup> OF VENTILATION TO EVERY 150FT<sup>2</sup> OF FLOOR AREA.
- 3. ROOF DRAINS/GUTTERS REQUIRED TO BE INSTALLED PER THE CPC CODE WITH LEAF/DEBRIS PROTECTION ALSO INSTALLED.
- 4. ALL ROOFING SHALL BE TESTED/LISTED CLASS A MIN. 5. ASPHALT SHINGLES WITH SLOPED ROOFS 2/12 TO 4/12 SHALL HAVE TWO LAYERS OF UNDERLAYMENT APPLIED PER CRC R905.2.2.

- 210.12)
- $(D), (F) \notin (G)$
- DWELLING. (CEC 210.52(E))
- ETC) EQUIPMENT. (CEC 210.64)

- THE APPLICATION. (CEC 410.10)

- ALL LIGHTING TO BE HIGH EFFICACY.
- 3|4-27(A)\$(D)

- 150.0(K)(C):

- FIXTURES BY THE CEC.

- CEILING CAVITY.

### ELECTRICAL NOTES

I. NO ELECTRICAL PANELS SHALL BE IN CLOSETS OF BATHROOMS. MAINTAIN A CLEARANCE OF 36" IN FRONT OF PANELS, 30" WIDE OR WIDTH OF EQUIPMENT & 6'-6" HIGH FOR HEADROOM (CEC 110.26)

2. A CONCRETE-ENCASED ELECTRODE (UFER) CONSISTING OF 20' OF REBAR OR #4 COPPER WIRE PLACED IN THE BOTTOM OF A FOOTING IS REQUIRED FOR ALL NEW CONSTRUCTION. (CEC 250.52(A) (3) BOND ALL METAL GAS & WATER PIPES TO GROUND. ALL GROUND CLAMPS SHALL BE ACCESSIBLE & OF AN APPROVED TYPE. (CEC 250.104) 3. ALL 15/20 AMP RECEPTACLES INSTALLED PER CEC 210.52 SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. (CEC 406.12)

4. ALL BRANCH CIRCUITS SUPPLYING 15/20 AMP OUTLETS IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, KITCHENS, LAUNDRY ROOM OR SIMILAR ROOMS/AREAS SHALL BE PROTECTED BY A LISTED COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER. (CEC

5. PROVIDE A MIN OF ONE 20A CIRCUIT TO BE USED FOR THE LAUNDRY RECEPTACLE. (CEC 210.11(C)(2)) PROVIDE A MIN OF ONE 20A CIRCUIT FOR BATHROOM RECEPTACLE OUTLETS. (CEC 210.11(C)(3) PROVIDE A MIN OF ONE 20A CIRCUIT FOR ATTACHED & DETACHED GARAGE OUTLETS. (CEC 210.11(C)(4))

6. PROVIDE AT LEAST I OUTLET IN BASEMENTS, GARAGES, LAUNDRY ROOMS, DECKS, BALCONIES, PORCHES & WITHIN 3'OF THE OUTSIDE OF EACH BATHROOM BASIN. (CEC 210.52

7. FURNACES INSTALLED IN ATTICS & CRAWL SPACES SHALL HAVE AN ACCESS PLATFORM (CATWALK IN ATTICS), LIGHT SWITCH & RECEPTACLE IN THE SPACE. PROVIDE A SERVICE RECEPTACLE FOR THE FURNACE. (CEC 210.63) 8. ALL DWELLINGS MUST HAVE ONE EXTERIOR OUTLET AT THE FRONT & THE BACK OF THE

9. EXTERIOR OUTLETS SHALL BE GECI PROTECTED

IO. GARAGE RECEPTACLES SHALL NOT SERVE OUTLETS OUTSIDE THE GARAGE. A MIN OF I RECEPTACLE SHALL BE PROVIDED FOR EACH CAR SPACE. (210.52(G)(I), II. AT LEAST ONE WALL SWITCHED LIGHTING OUTLET OR FIXTURE SHALL BE INSTALLED IN EVERY HABITABLE ROOM, BATHROOM, HALLWAYS, STAIRWAYS, ATTACHED GARAGES & DETACHED GARAGES WITH ELECTRICAL POWER EQUIPMENT SPACED (ATTIC, BASEMENTS,

12. A 15/20-AMP RECEPTACLE SHALL BE INSTALLED WITHIN 50' OF ELECTRICAL SERVICE

13. KITCHENS, DINING ROOMS, PANTRIES, BREAKFAST NOOKS, & SIMILAR AREAS MUST HAVE A MIN OF (2) 20A CIRCUITS. KITCHEN, PANTRY, BREAKFAST NOOKS, DINING ROOMS, & SIMILAR AREAS COUNTER OUTLETS MUST BE INSTALLED IN EVERY COUNTER SPACE 12" OR WIDER, NOT GREATER THAN 4'O.C., WITHIN 24" OF THE END OF ANY COUNTER SPACE & NOT HIGHER THAN 20" ABOVE COUNTER. (CEC 210.52 (C)) ISLAND COUNTER SPACES SHALL HAVE AT LEAST I RECEPTACLE OUTLET UNLESS A RANGE TOP OR SINK IS INSTALLED THEN 2 RECEPTACLES MAY BE REQUIRED. I RECEPTACLE IS REQUIRED FOR PENINGULAR COUNTER SPACES. RECEPTACLES SHALL BE LOCATED BEHIND KITCHEN SINKS IF THE COUNTER AREA DEPTH BEHIND THE SINK IS MORE THAN 12" FOR STRAIGHT COUNTERS & 18" FOR CORNER INSTALLATIONS. (CEC FIGURE 210.52(C)(I))

14. RECEPTACLES SHALL BE INSTALLED AT 12' O.C. MAX IN WALLS STARTING AT 6' MAX FROM THE WALL END. WALLS LONGER THAN 2' SHALL HAVE A RECEPTACLE. HALLWAY WALLS LONGER THAN 10' SHALL HAVE A RECEPTACLE IN HALLWAYS. (CEC 210.52(A)) 15. RECEPTACLES SHALL NOT BE INSTALLED WITHIN OR DIRECTLY OVER A BATHTUB OR SHOWER STALL. (CEC 406.9(C) LIGHT PENDANTS, CEILING FANS, LIGHTING TRACKS, ETC

SHALL NOT BE LOCATED WITHIN 3' HORIZONTALLY & & VERTICALLY ABOVE A SHOWER \$/OR BATHTUB THRESHOLD. (CEC 410.10(D)) 16. ALL LIGHTING/FAN FIXTURES LOCATED IN WET OR DAMP LOCATIONS SHALL BE RATED FOR

17. GFCI OUTLETS ARE REQUIRED: FOR ALL KITCHEN RECEPTACLES THAT ARE DESIGNED TO SERVE COUNTERTOP SURFACES, DISHWASHERS, BATHROOMS, IN UNDER-FLOOR SPACES OR BELOW GRADE LEVEL, IN EXTERIOR OUTLETS, WITHIN 6' OF A LAUNDRY/UTILITY/WET BAR SINKS, LAUNDRY AREAS, & IN ALL GARAGE OUTLETS INCLUDING OUTLETS DEDICATED TO A SINGLE DEVICE OR GARAGE DOOR OPENER (CEC 210.8).

18. ALL 15/20 AMP RECEPTACLES IN WET LOCATIONS SHALL HAVE IN-USE (BUBBLE) COVERS INSTALLED. ALL RECEPTACLES IN WET LOCATIONS SHALL ALSO BE LISTED WEATHER-RESISTANT TYPE. (CEC 406.9(B)(I)

### ENERGY STORAGE SYSTEM (ESS) READY

AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED ESS READY INTERCONNECTION EQUIPMENT WITH A MIN BACKED-UP CAPACITY OF 60 AMPS & A MIN OF (4) ESS-SUPPLIED BRANCH CIRCUITS, OR A DEDICATED RACEWAY FROM THE MAIN SERVICE PANEL TO A SUBPANEL THAT SUPPLIES THE FOLLOWING BRANCH CIRCUITS: REFRIGERATOR, LIGHTING CIRCUIT NEAR PRIMARY EGRESS DOOR, SLEEPING ROOM RECEPTACLE & ON ADDITIONAL.

2. THE MAIN PANELBOARD SHALL HAVE A MIN BUSBAR RATING OF 225 AMPS. SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3' OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD & THE SYSTEM ISOLATION EQUIPMENT TO ALLOW THE CONNECTION BACKUP POWER SOURCE.

3. SYSTEM USING A GAS OR PROPANE FURNACE SHALL INCLUDE A DEDICATED 240 VOLT BRANCH CIRCUIT WITHIN 3' OF THE FURNACE. THE BRANCH CIRCUIT SHALL BE RATED AT 30 AMPS MIN. THE MAIN ELECTRICAL SERVICE SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER. THE SPACE SHALL BE MARKED AS "FOR FUTURE 240V USE" (CEC 150.0(t)).

4. SYSTEM USING A GAS OR PROPANE COOKTOP SHALL INCLUDE A DEDICATED 240 VOLT BRANCH CIRCUIT WITHIN 3' OF THE COOKTOP. THE BRANCH CIRCUIT SHALL BE RATED AT 50 AMPS MIN. THE MAIN ELECTRICAL SERVICE SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER. THE SPACE SHALL BE MARKED AS "FOR FUTURE 240V USE" (CEC 150.0(U))

5. SYSTEM USING A GAS OR PROPANE DRYER SHALL INCLUDE A DEDICATED 240 VOLT BRANCH CIRCUIT WITHIN 3' OF THE CLOTHES DRYER. THE BRANCH CIRCUIT SHALL BE RATED AT 30 AMPS MIN. THE MAIN ELECTRICAL SERVICE SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER. THE SPACE SHALL BE MARKED AS "FOR FUTURE 240V USE" (CED 150.0(v)).

### <u>LIGHTING NOTES</u>

2. LIGHTING IN HABITABLE SPACES, (LIVING ROOMS, DINING ROOMS, KITCHEN & BEDROOMS) SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED DIMMING CONTROLS. 3. FIXTURES, LAMP HOLDER & RECEPTACLES OUTLETS SHALL BE SECURELY SUPPORTED. A FIXTURE THAT WEIGHS MORE THAN 6LBS OR EXCEEDS 16" IN ANY DIMENSION SHALL NOT BE SUPPORTED BY THE SCREW SHELL OF A LAMP HOLDER. CEC ART. 410.30(a). OUTLET BOXES SHALL NOT BE USED AS THE SOLE SUPPORT FOR CEILING (PADDLE) FAN. 2022 CEC ART.

4. ALL LIGHTING IN BATHROOM, UTILITY ROOM, LAUNDRY ROOM, WALK IN CLOSETS # GARAGES TO BE MANUAL ON, AUTOMATIC OFF, OCCUPANT SENSOR. (VACANCY SENSOR) 5. OUTDOOR LIGHTING ATTACHED TO THE BUILDING TO BE HIGH EFFICACY, CONTROLLED BY A MANUAL ON & OFF SWITCH & ONE OF THE FOLLOWING AUTOMATIC CONTROLS 5.1. PHOTO CONTROL & MOTION SENSOR

5.2. PHOTO CONTROL & AUTOMATIC TIME SWITCH CONTROOL 5.3. ASTRONOMICAL TIME CLOCK CONTROL THAT AUTOMATICALLY TURNS THE OUTDOOR

LIGHT OFF DURING DAYLIGHT HOURS. 5.4. EMCS THAT PROVIDES THE FUNCTIONALITY OF AN ASTRONOMICAL TIME CLOCK, DOES NOT HAVE AN OVERRIDE OR BYPASS SWITCH THAT ALLOWS THE LUMINARIES TO BE ALWAYS ON, & IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR LIGHTING OFF DURING DAYLIGHT HOURS.

6. LUMINARIES RECESSED IN INSULATED CEILINGS MUST MEET 5 REQUIREMENTS (CEC CODE

6.1. THEY MUST BE RATED FOR DIRECT INSULATION CONTACT. 6.2. THEY MUST BE CERTIFIED AS AIRTIGHT CONSTRUCTION.

6.3. THEY MUST HAVE A SEALED GASKET OR CAULKING BETWEEN THE HOUSING & CEILING TO PREVENT FLOW OF HEATED OR COOLED AIR OUT OF LIVING AREAS & INTO THE

6.4. THEY MAY NOT CONTAIN A SCREW BASE SOCKETS

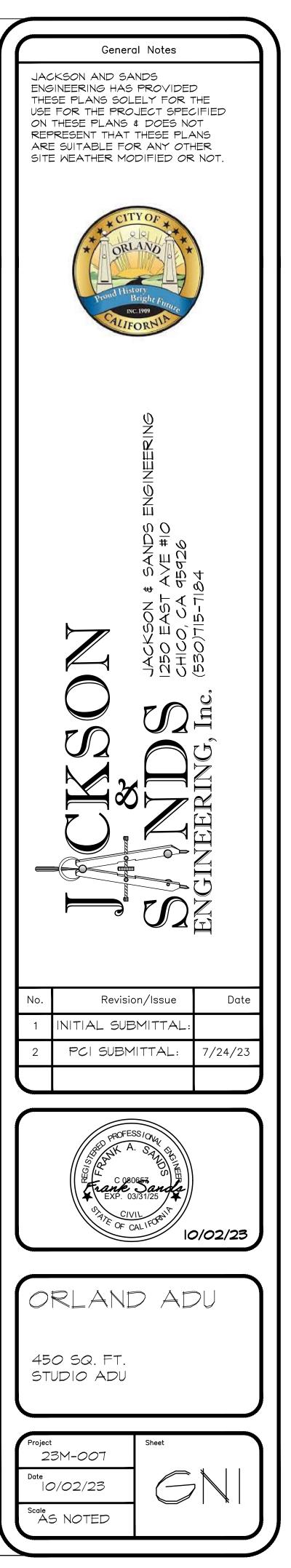
6.5. THEY SHALL CONTAIN A JAB COMPLIANT LIGHT SOURCE

7. OUTDOOR LIGHTING SHALL BE SUITABLE FOR WET LOCATIONS. 8. ALL HIGH EFFICACY LIGHT FIXTURES SHALL BE CERTIFIED AS "HIGH EFFICACY" LIGHT

9. CONTRACTOR SHALL PROVIDE THE HOMEOWNER WITH A LUMINAIRE SCHEDULE GIVING THE \_AMPS USED IN THE LUMINAIRES INSTALLED. (CGBSC 10-103(b)) 10. THE NUMBER OF BLANK ELECTRICAL BOXES MORE THAN 5' ABOVE FINISHED FLOOR SHALL NOT BE GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE

SERVED BY A DIMMER, VACANCY SENSOR, OR FAN SPEED CONTROL. (CEC 150(k)1B) BUILDING SHALL COMPLY WITH THE FOLLOWING CODE:

DESIGN CODES 2022 CBC, 2022 CEC, 2022 CMC, 2022 CPC, 2022 CRC, 2022 CENC, 2022 CALGREEN, 2022 CFC



### AGING-IN-PLACE

- I. AT LEAST ONE BATHROOM ON ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT FOR GRAB BARS. MIN 2x8 SOLID LUMBER. LOCATED BETWEEN 32" & 392" ABOVE FINISHED FLOOR. BOTH SIDES OF WATER CLOSET OR ONE SIDE WALL & BACK WALL. SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED. BATHTUB \$ COMBINATION BATHTUB/SHOWER SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB # BACK WALL. BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE LOCATED NO MORE THAN 6" ABOVE BATHTUB RIM. INFORMATION FOR IDENTIFYING THE LOCATION OR REINFORCEMENT SHALL BE PLACED IN OPERATIONS & MAINTENANCE MANUAL. (R327.1.1)
- 2. ELECTRICAL RECEPTACLES OUTLETS, SWITCHES & CONTROLS SHALL BE LOCATED NO MORE THAN 48" TO THE TOP OF THE OUTLET BOX & NO LESS THAN 15" FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISHED FLOOR. (R327.1.2)
- 3. EFFECTIVE JULY 1st, 2024 AT LEAST ONE BATHROOM & ONE BEDROOM DOORWAY ON THE ENTRY LEVEL SHALL HAVE A NET CLEAR OPENING OF NO LESS THAN 32" AT A 90° ANGLE. (R327.1.3)
- 4. DOORBELL BUTTONS SHALL BE INSTALLED NO MORE THAN 48" TO THE TOP OF THE BUTTON, ABOVE THE FINISHED FLOOR. (R327.1.4)

### MECHANICAL

- WOOD BURNING APPLIANCES SHALL BE ONE OF THE FOLLOWING: I.I. A PELLET-FUELED WOOD BURNING HEATER.
- I.2. A U.S. EPA PHASE II CERTIFIED WOOD BURNING HEATER.
- 1.3. AN APPLIANCE OR FIREPLACE DETERMINED TO MEET THE U.S. EPA PARTICULATE MATTER EMISSION STANDARD OF LESS THAN 7.5 GRAMS/HOUR FOR A NON-CATALYTIC WOOD FIRED APPLIANCE OR 4.1 GRAMS/HOUR FOR A CATALYTIC WOOD FIRED
- APPLIANCE & IS APPROVED IN WRITING BY THE APCO. 2. ALL NEWLY INSTALLED GAS FIREPLACES SHALL BE DIRECT VENT & SEALED-COMBUSTION
- TYPE. (CMC 912.2) 3. ANY INSTALLED WOOD STOVE OR PELLET STOVE SHALL HAVE A PERMANENT NSPS LABEL CERTIFYING EMISSION LIMITS.
- 4. TOP CHIMNEY MUST EXTEND A MIN OF 2' ABOVE ANY PART OF THE BUILDING WITHIN 10' (CMC 802.5.4)
- 5. FIREPLACES SHALL HAVE CLOSABLE METAL OR GLASS DOORS, HAVE COMBUSTION AIR INTAKE DRAWN FROM THE OUTSIDE & HAVE A READILY ACCESSIBLE FLUE DAMPENER CONTROL. CONTINUOUS BURNING PILOT LIGHTS ARE PROHIBITED. (CEC 150.0(E))
- 6. PROVIDE COMBUSTION AIR FOR ALL GAS FIRED APPLIANCES PER CMC CHAPTER 7. 7. GAS VENTS PASSING THROUGH AN INSULATED ASSEMBLY SHALL HAVE A METAL INSULATION SHIELD A MIN 2" ABOVE INSULATION. (509.6.2.7)
- 8. GAS WATER HEATER & FURNACE ARE NOT ALLOWED IN AREAS OPENING INTO BATHROOMS, CLOSETS OR BEDROOMS UNLESS INSTALLED IN A CLOSET EQUIPPED WITH A LISTED GASKETED DOOR ASSEMBLY & A LISTED SELF-CLOSING DEVICE WITH ALL COMBUSTION AIR OBTAINED FROM THE OUTDOORS. (CPC 504)
- 9. ROOF TOP EQUIPMENT ON ROOFS WITH OVER 4/12 SLOPE SHALL HAVE A LEVEL 30"x30" WORKING PLATFORM. (CMC 304.2) IO. EXHAUST OPENINGS TERMINATING TO THE OUTDOORS SHALL BE COVERED WITH A
- CORROSION RESISTANT SCREEN  $\frac{1}{4}$ "- $\frac{1}{2}$ " IN OPENING SIZE (NOT REQUIRED FOR CLOTHES DRYERS). (CMC 502.1) II. VENT DRYER TO OUTSIDE OF BUILDING (NOT TO UNDER-FLOOR AREA). VENT LENGTH SHALL
- BE 14' MAX SHALL TERMINATE A MIN OF 3' FROM THE PROPERTY LINE & ANY OPENING INTO THE BUILDING. (CMC 504.4.2) 12. ENVIRONMENTAL AIR DUCTS SHALL NOT TERMINATE LESS THAN 3'TO A PROPERTY LINE, IO'
- TO A FORCED AIR INLET, 3' TO OPENINGS INTO THE BUILDING & SHALL NOT DISCHARGE ON TO A PUBLIC WAY. (CMC 502.2.1) 13. PROVIDE MIN 100IN<sup>2</sup> MAKE-UP AIR FOR CLOTHES DRYERS INSTALLED IN CLOSETS. (CMC
- 504.4.(()) 14. HEATING SYSTEM IS REQUIRED TO MAINTAIN 68° AT 3' ABOVE FLOOR LEVEL \$ 2' FROM
- EXTERIOR WALLS IN ALL HABITABLE ROOMS. (CRC R303.9) 15. BATHROOM FAN SHALL BE MIN VENTILATION RATE OF 50CFM FOR INTERMITTENT OR 25CFM FOR CONTINUOUS VENTILATION.
- 15.1. FAN SHALL BE 3 SONE OR LESS & INSTALLED PER MANUFACTURES SPECS. 15.2. MIN 4" DUCT SHALL VENT TO OUTSIDE & SHALL BE AIR TIGHT WITH CAULKING & GASKET 15.3. FAN IN BATHROOMS CONTAINING TUB OR SHOWER MUST BE CONTROLLED BY A
- HUMIDISTAT & BE ENERGY STAR RATED. IF FAN PROVIDES CONTINUOUS VENTILATION BY THE ENERGY CODE IS EXEMPT.
- 16. CEC STANDARDS SECTION 150(K) REQUIREMENTS FOR INDOOR AIR QUALITY VENTILATION. 16.1. BATHROOM EXHAUST FAN TO BE USED TO PROVIDE THE WHOLE BUILDING VENTILATION FAN & PROVIDE THE FOLLOWING:
  - 16.1.1. THE BATHROOM EXHAUST FAN MUST HAVE A MIN CFM RATING OF 75-CFM 16.1.2. THE BATHROOM EXHAUST FAN IS RATED AT A MAX OF 1.0 SONE.
  - 16.1.3. THE CONTROL SWITCH MUST BE LABELED AS THE WHOLE HOUSE VENTILATION \$ FAN SHOULD OPERATE WHENEVER THE HOME IS OCCUPIED.

### PLUMBING I. UNDERFLOOR CLEANOUTS SHALL NOT BE MORE THAN 5' FROM AN UNDERFLOOR ACCESS,

- ACCESS DOOR OR TRAP DOOR. (CPC 707.9) 2. EXTERIOR HOSE BIBS SHALL BE EQUIPPED WITH A NON-REMOVABLE BACK-FLOW PREVENTION. (CPC 603.5.7)
- 3. SHOWER & TUB COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC OF COMBINATION PRESSURE BALANCE THERMOSTATIC MIXING VALVE TYPE. (CPC 408.3) 4. KITCHEN SINKS REQUIRE A CLEANOUT ABOVE THE FLOOR LEVEL OF THE LOWEST FLOOR OF
- THE BUILDING. AIR GAP FITTING REQUIRED AT DISHWASHER
- 6. WATER CLOSET SHALL BE POSITIONED TO HAVE A MIN 15" FROM ITS CENTER TO THE EDGE OF THE SINK & TO THE TUB.
- ABS PIPING SHALL NOT BE EXPOSED TO DIRECT SUNLIGHT UNLESS PROTECTED BY WATER 7 BASED SYNTHETIC LATEX PAINTS. (CPC 312.13) PVC PIPING SHALL NOT BE EXPOSED TO DIRECT SUNLIGHT UNLESS PROTECTED BY WATER
- BASED SYNTHETIC LATEX PAINT, .04" THICK WRAP OR OTHERWISE PROTECTED FROM UV DEGRADATION. (CPC 312.14)
- OWET LOCATION WHEN USING THE CRC, CBC, & THE CEC. (CPC 408.5) IO. SHOWER COMPARTMENTS, REGARDLESS OF SHAPE, SHALL HAVE A MIN FINISHED INTERIOR OF 10241N2 (32"x32") & SHALL ALSO BE CAPABLE OF ENCOMPASSING A 30" CIRCLE. THE REQUIRED AREA & DIMENSIONS SHALL BE MEASURED AT A HEIGHT EQUAL TO THE TOP OF THE THRESHOLD & SHALL BE MAINTAINED TO A POINT OF NOT LESS THAN 70" ABOVE THE SHOWER DRAIN OUTLET. (CPC 408.6) PROVIDE CURTAIN ROD OR DOOR A MIN OF 22" IN WIDTH (CPC 408.5). SHOWERS & TUBS WITH SHOWERS REQUIRE A NON-ABSORBENT SURFACE UP TO 6' ABOVE THE FLOOR. (CRC R307.2)
- PROVIDE PRESSURE RELIEF VALVE WITH DRAIN TO OUTSIDE FOR WATER HEATER. (CPC 504.6) PROVIDE SEISMIC STRAPPING IN THE UPPER & LOWER THIRD OF THE WATER HEATER A MIN OF 4" ABOVE CONTROLS. (CPC 507.2) THE WATER HEATER SHALL BE OF AN INSTANTANEOUS TYPE OR THE FOLLOWING SHALL BE PROVIDED (NEW CONSTRUCTION ONLY) (CEC 150(N)):
- II.I. A I20V RECEPTACLES PROVIDED WITHIN 3' A CATEGORY III OR IV VENT, OR A STRAIGHT (WITHOUT BENDS) TYPE B VENT
- 11.2. CONDENSATE DRAIN THAT IS NO MORE THAN 2" HIGHER THAN THE BASE OF THE WATER HEATER
- II.3. WATER HEATERS USING GAS OR PROPANE SHALL DESIGNATE A SPACE  $2\frac{1}{2}$ ' $x2\frac{1}{2}$ ' \$ 7' TALL SUITABLE FOR FUTURE INSTALLATION OF HEAT PUMP WATER HEATER
- 11.4. GAS SUPPLY LINE WITH A MIN 200,000 BTU/HR DEDICATED CAPACITY FOR THE WATER HEATER
- 11.5. DOMESTIC HOT WATER LINES SHALL BE INSULATED. INSULATION SHALL BE THE THICKNESS OF THE PIPE DIAMETER UP TO 2" IN SIZE & MIN 2" THICKNESS FOR PIPES LARGER THAN 2" IN DIAMETER. (CPC 609.11)
- 11.6. A 3" GRAVITY DRAIN SHALL BE PROVIDED AT THE LOW POINT OF UNDERFLOOR SPACES, INSTALLED SO AS TO PROVIDE  $\frac{1}{4}$ "/FOOT GRADE & TERMINATE AT AN EXTERIOR POINT OF THE BUILDING PROTECTED FROM BLOCKAGE. THE OPENING SHALL DIMENSION. LENGTHS OF THE GRAVITY DRAINS OVER IO' IN LENGTH SHALL BE FIRST APPROVED BY THE BUILDING OFFICIAL. (L-V 8.9)
- II.7. WATER HEATERS LOCATED IN ATTICS, CEILING ASSEMBLIES & RAISED FLOOR ASSEMBLIES SHALL SHOW A WATER-TIGHT CORROSION RESISTANT MIN  $I_2^{\parallel}$  DEEP PAN UNDER THE WATER HEATER WITH A MIN  $\frac{3}{4}$ " DRAIN TO THE EXTERIOR OF THE BUILDING. (CPC 507.5)
- 11.8. WATER CLOSET SHALL BE LOCATED IN A SPACE NOT LESS THAN 30" IN WIDTH (15" ON EACH SIDE) & 24" MIN CLEARANCE IN FRONT. (CPC 402.5)
- BATH-TUB FILLER SHALL NOT EXCEED 120°F. (CPC 418) II.IO. PROVIDE ANTI-SIPHON VALVES ON ALL HOSE BIBS. (CPC 603.5.7)
- II.II. FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER. (CPC 1007) II.12. MAX WATER FLOW RATES. (CGBSC 4.303.1): •WATER CLOSETS: 1.28-GPF
  - ·URINALS: .125-GPF
  - •KITCHEN FAUCETS: 1.8-GPM @ 60PSI ·LAVATORY FAUCETS: 1.2-GPM @ 60PSI •SHOWERHEADS: 1.8-GPM

### SMOKE DETECTORS & CARBON MONOXIDE DETECTORS

- 2022 CRC SEC. R314 & R315 I. CARBON-MONOXIDE ALARMS SHALL BE INSTALLED IN DWELLING UNITS WITH FUEL-BURNING
- APPLIANCES OR WITH ATTACHED GARAGES (CRC R315) 2. ALL SMOKE DETECTORS & CARBON MONOXIDE DETECTORS WITHIN THE DWELLING UNIT ARE
- TO BE INTERCONNECTED. 3. ALL DWELLING UNITS MUST HAVE SMOKE DETECTORS
- 3.1. ON THE WALL OR CEILING OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF BEDROOMS & IN EACH ROOM USED FOR SLEEPING PURPOSES
- OF ROOM OPENING TO HALLWAY SERVING BEDROOMS EXCEEDS THAT OF THE HALLWAY BY 24" OR MORE 3.3. ONE EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS.
- 4. CARBON MONOXIDE DETECTORS MAY BE COMBINATION SMOKE/CARBON MONOXIDE DETECTORS.
- 5. WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING OR SLEEPING UNIT, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL
- 6. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING PROVIDED THAT SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE & SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS WITH INTEGRAL STROBES THAT ARE NOT EQUIPPED WITH BATTERY BACKUP SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT & WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION.
- 7. SMOKE ALARMS OR DETECTORS SHALL BE INSTALLED A MIN OF 20' HORIZONTAL DISTANCE FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. EXCEPTION: IONIZATION SMOKE ALARMS WITH AN ALARM-SILENCING SWITCH OR PHOTOELECTRIC SMOKE ALARMS SHALL BE PERMITTED TO BE INSTALLED IO' OR GREATER FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. PHOTOELECTRIC SMOKE ALARMS SHALL BE PERMITTED TO BE INSTALLED GREATER THAN 6' FROM A PERMANENTLY INSTALLED COOKING APPLIANCE WHERE THE KITCHEN OR COOKING AREA & ADJACENT SPACES HAVE NO CLEAR INTERIOR PARTITIONS & THE IO' DISTANCES WOULD PROHIBIT THE PLACEMENT OF SMOKE ALARM OR DETECTOR REQUIRED BY OTHER SECTIONS OF THE CODE. (R314.3.3) (NFPA72 SECTION 29.8.3.4)

### FOUNDATIONS & CONCRETE SLABS

### Concrete Strength(s): 2,500 PSI Rebar Grades: 40 KSI U.O.N.

- I. SLOPE DRAINAGE 6" WITHIN THE FIRST 10' FROM THE FOUNDATION WALL. IF PHYSICAL OBSTRUCTIONS OR LOT LINES PROHIBIT THE IO' DISTANCE, A 2-5% SLOPE SHALL BE PROVIDED TO AN APPROVED ALTERNATIVE METHOD OF DIVERTING THE WATER AWAY FROM THE FOUNDATION. IMPERVIOUS SURFACES SHALL ALSO BE SLOPED A MIN OF 2% FOR 10' AWAY FROM STRUCTURES TO AN APPROVED DRAINAGE WAY. (CRC R401.3) 2. STEPPED FOOTINGS SHALL BE USED WHEN SLOPE OF FOOTING BOTTOM IS GREATER THAN
- I:IO (∨:H). 3. CONCRETE SLABS: 3½" MIN (CRC R506.1). SLABS UNDER LIVING AREAS & GARAGES SHALL BE REINFORCED WITH WIRE 6"x6", IO GAUGE X IO GAUGE WELDED MESH OR EQUIVALENT STEEL REINFORCEMENT # 4" THICKNESS OF & MIN GRAVEL UNDER THE CONCRETE SLAB. SEPARATE FROM SOIL WITH A 10 MIL POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" IN LIVING AREAS. A CAPILLARY BREAK SHALL BE INSTALLED WHEN A VAPOR RETARDER IS REQUIRED.
- A PERIMETER WALL. (CRC R408.4)
- 5. MIN SILL BOLTING: 2" ANCHOR BOLTS OR APPROVED ANCHORS AT 6' O.C. MAX FOR ONE-STORY (CRC R403.1.6). USE ANCHOR BOLTS AT 4' O.C. MAX FOR THREE STORY CONSTRUCTION. EMBED BOLTS 7" MIN. THE ANCHOR BOLTS SHALL BE PLACED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. LOCATE END BOLTS NOT LESS THAN 7 BOLT DIAMETERS OR MORE THAN 12" FROM ENDS OF SILL MEMBERS. IN SDC DO & ABOVE: PROVIDE 3"X3"X0.229" PLATE WASHERS ON EACH BOLT AT BRACED OR SHEAR WALL LOCATIONS, STANDARD CUT WASHERS SHALL BE PERMITTED FOR ANCHOR BOLTS NOT LOCATED IN BRACED/SHEAR WALL LINES.

9. THE ADJACENT SPACE NEXT TO SHOWERS WITHOUT THRESHOLDS SHALL BE CONSIDERED A

BE SCREENED WITH A CORROSION-RESISTANT WIRE MESH WITH MESH OPENINGS OF  $\frac{1}{4}$ " IN

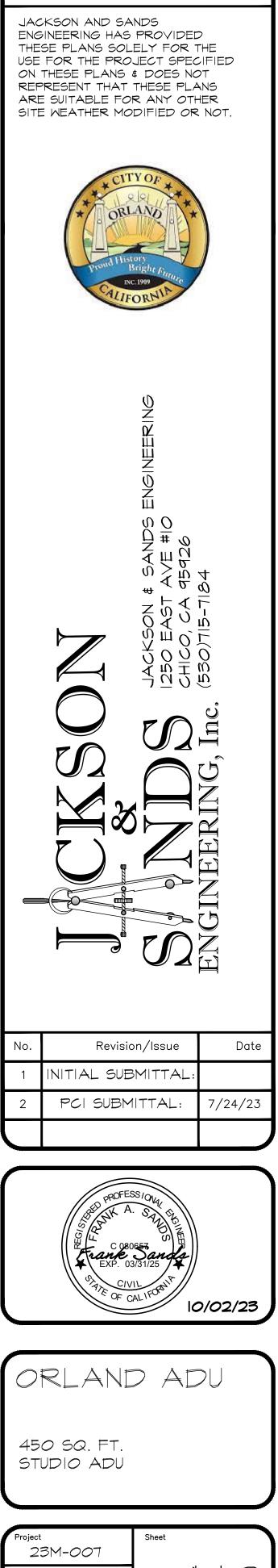
11.9. THE MAX HOT WATER TEMPERATURE DISCHARGING FROM A BATHTUB OR WHIRLPOOL

3.2. IN THE HALLWAY & IN THE ROOM OPEN TO THE HALLWAY WHERE THE CEILING HEIGHT

BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.

4. PROVIDE 18"x24" FOUNDATION ACCESS THROUGH THE FLOOR OR 16"x24" ACCESS THROUGH





10/02/23

AS NOTED

## **2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1** (January 2023) Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is

Y N/A RESPON. PARTY	CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL	Y N/A	RESPON. PARTY	<b>4.106.4.2 New multifamily dwellings, hotels and</b> When parking is provided, parking spaces for new r requirements of Sections 4.106.4.2.1 and 4.106.4.2 whole number. A parking space served by electric v
	<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.			<ul> <li>space shall count as at least one standard automob applicable minimum parking space requirements es for further details.</li> <li>4.106.4.2.1Multifamily development projects with</li> </ul>
	<b>301.1.1 Additions and alterations. [HCD]</b> The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.			than 20 sleeping units or guest rooms. The number of dwelling units, sleeping units or gues this section.
	The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.			1.EV Capable. Ten (10) percent of the total n of parking facilities, shall be electric vehicle c EVSE. Electrical load calculations shall demo system, including any on-site distribution tran EVs at all required EV spaces at a minimum of
	<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 director for future EV charging purposes as "EV CAP,
	<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			Exceptions: 1.When EV chargers (Level 2 EVSE) are i of EV capable spaces.
	301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of			2.When EV chargers (Level 2 EVSE) are i spaces, the number of EV capable spa EV chargers installed.
	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.			Notes: a.Construction documents are intended to future EV charging.
	SECTION 302 MIXED OCCUPANCY BUILDINGS			b.There is no requirement for EV spaces t EV chargers are installed for use.
	<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.			<b>2.EV Ready</b> . Twenty-five (25) percent of the Level 2 EV charging receptacles. For multifar
	<ul> <li>Exceptions:</li> <li>1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable.</li> <li>2. [HCD] For purposes of <i>CAL</i>Green, live/work units, complying with Section 419 of the <i>California Building</i> code, chapter 1 and accession of the mixed occupancies. Live/Work units chall comply with</li> </ul>			dwelling unit when more than one parking sports for the served to the se
	Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable.         DIVISION 4.1       PLANNING AND DESIGN			4.106.4.2.2 Multifamily development projects wit sleeping units or guest rooms. The number of dwelling units, sleeping units or gues this section.
	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			<b>1.EV Capable</b> . Ten (10) percent of the total n of parking facilities, shall be electric vehicle c EVSE. Electrical load calculations shall demo system, including any on-site distribution tran EVs at all required EV spaces at a minimum of
	HR     High Rise       AA     Additions and Alterations       N     New			The service panel or subpanel circuit director for future EV charging purposes as "EV CAP,
	CHAPTER 4 RESIDENTIAL MANDATORY MEASURES			Exception: When EV chargers (Level 2 EV parking spaces required by Section 4.106 reduced by a number equal to the number Notes:
	SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)			a.Construction documents shall show loca
	<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. 2.EV Ready. Twenty-five (25) percent of the
	<b>WATTLES.</b> Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.			Level 2 EV charging receptacles. For multifar dwelling unit when more than one parking spa Exception: Areas of parking facilities serve
	<ul> <li>4.106 SITE DEVELOPMENT</li> <li>4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.</li> </ul>			<b>3.EV Chargers.</b> Five (5) percent of the total r Where common use parking is provided, at le area and shall be available for use by all resid
	<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.			When low power Level 2 EV charging recepta an automatic load management system (ALM capacity to each space served by the ALMS. shall have sufficient capacity to deliver at leas served by the ALMS. The branch circuit shall have a capacity of not less than 30 amperes. capacity to the required EV capable spaces.
	<ol> <li>Retention basins of sufficient size shall be utilized to retain storm water on the site.</li> <li>Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.</li> </ol>			<b>4.106.4.2.2.1 Electric vehicle charging station</b> Electric vehicle charging stations required by Se
	<ol> <li>Compliance with a lawfully enacted storm water management ordinance.</li> <li>Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil.</li> </ol>			Exception: Electric vehicle charging stations se shall not be required to comply with this sectior requirements.
	(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 follow
	<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 water include, but are not limited to, the following:			<ol> <li>The charging space shall be located adjacent the California Building Code, Chapter 11A, 2</li> <li>The charging space shall be located on an advant space shall be located on advant space space</li></ol>
	<ol> <li>Swales</li> <li>Water collection and disposal systems</li> <li>French drains</li> <li>Water retention gardens</li> <li>Other retention gardens</li> </ol>			Chapter 2, to the building. Exception: Electric vehicle charging stations Building Code, Chapter 11B, are not require
	<ol> <li>Other water measures which keep surface water away from buildings and aid in groundwater recharge.</li> <li>Exception: Additions and alterations not altering the drainage path.</li> </ol>			4.106.4.2.2.1.2, Item 3. <b>4.106.4.2.2.1.2 Electric vehicle charging statio</b> The charging spaces shall be designed to com
	4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i> , Article 625.			1.The minimum length of each EV space shall b 2.The minimum width of each EV space shall b
	Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions: 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate			3.One in every 25 charging spaces, but not les aisle. A 5-foot (1524 mm) wide minimum aisle s 12 feet (3658 mm).
	power. 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 4.106.4, may adversely impact the construction cost of the project.			<ul> <li>a.Surface slope for this EV space and the aisle percent slope) in any direction.</li> <li>4.106.4.2.2.1.3 Accessible EV spaces.</li> </ul>
	<ol> <li>Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.</li> </ol>			In addition to the requirements in Sections 4.106 comply with the accessibility provisions for EV cf spaces and EVCS in multifamily developments s 1109A.
	<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			<b>4.106.4.2.3 EV space requirements.</b> 1.Single EV space required. Install a listed racew circuit. The raceway shall not be less than trade
	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.			originate at the main service or subpanel and shi proximity to the location or the proposed location raceway termination point, receptacle or charger have a 40-ampere minimum dedicated branch ci installed, or space(s) reserved to permit installati
	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 minim installed in close proximity to the location or the construction in accordance with the California B
	<b>4.106.4.1.1 Identification.</b> The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".			2.Multiple EV spaces required. Construction doc location of installed or future EV spaces, recepta information on amperage of installed or future re electrical load calculations. Plan design shall be raceways and related components that are planr concealed areas and spaces shall be installed at

	Y N/A R	ESPON. PARTY	installed in close proximity to the location or the p construction in accordance with the California Ele	oposed location of the EV space at the time of original ctrical Code.	Y N	A RESPON. PARTY	
w multifamily dwellings, hotels and motels and new residential parking facilities. g is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the of Sections 4.106.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest			4.106.4.2.4 Identification.	tify the everywrent protective device analog(a) reconved for			4.304 OUTDOOR WA 4.304.1 OUTDOOR POTABLE
er. A parking space served by electric vehicle supply equipment or designed as a future EV charging count as at least one standard automobile parking space only for the purpose of complying with any inimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2			<ul> <li>A service panel of subpanel circuit directory shall define future EV charging purposes as "EV CAPABLE" in accord 4.106.4.2.5 Electric Vehicle Ready Space Signage.</li> <li>Electric vehicle ready spaces shall be identified by signada and the service statement of the service shall be identified by signada and the service ser</li></ul>			_	a local water efficient landscap Efficient Landscape Ordinance NOTES:
lultifamily development projects with less than 20 dwelling units; and hotels and motels with less ping units or guest rooms. of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to			Traffic Operations Policy Directive 13-01 (Zero Emission successor(s).	Vehicle Signs and Pavement Markings) or its			<ol> <li>The Model Water Effi Title 23, Chapter 2.7, available at: https://w</li> </ol>
or dwelling units, sleeping units of guest rooms shall be based on all buildings on a project site subject to			4.106.4.3 Electric vehicle charging for additions and alto multifamily buildings. When new parking facilities are added, or electrical systematics.				DIVISION 4.4 M
<b>Capable.</b> Ten (10) percent of the total number of parking spaces on a building site, provided for all types king facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical n, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all all required EV spaces at a minimum of 40 amperes.			altered and the work requires a building permit, ten (10) altered shall be electric vehicle charging spaces (EV spa Notes:	percent of the total number of parking spaces added or			EFFICIENCY 4.406 ENHANCED DU 4.406.1 RODENT PROOFING
ervice panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved are EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.			EV charging.	e the project's capability and capacity for facilitating future			sole/bottom plates at ext openings with cement m agency.
ceptions: /hen EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number			2.There is no requirement for EV spaces to be constru <b>DIVISION 4.2 ENERGY EFFICIE</b>				4.408 CONSTRUCTIO 4.408.1 CONSTRUCTION WA percent of the non-hazar
EV capable spaces. When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable			<ul> <li>4.201 GENERAL</li> <li>4.201.1 SCOPE. For the purposes of mandatory energy e Commission will continue to adopt mandatory standard</li> </ul>				4.408.2, 4.408.3 or 4.408 management ordinance. Exceptions:
spaces, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed. tes:			DIVISION 4.3 WATER EFFICIEN 4.303 INDOOR WATER USE	ICY AND CONSERVATION			<ol> <li>Excavated soil and la 2. Alternate waste redu</li> </ol>
Construction documents are intended to demonstrate the project's capability and capacity for facilitating ure EV charging.			4.303.1 WATER CONSERVING PLUMBING FIXTURES A	<b>ND FITTINGS.</b> Plumbing fixtures (water closets and comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3,			recycle facilities capa close to the jobsite. 3. The enforcing agenc jobsites are located
here is no requirement for EV spaces to be constructed or available until receptacles for EV charging or chargers are installed for use.			<b>Note:</b> All noncompliant plumbing fixtures in any resid plumbing fixtures. Plumbing fixture replacemer	ential real property shall be replaced with water-conserving t is required prior to issuance of a certificate of final			4.408.2 CONSTRUCTION WA in conformance with Iten
<b>Ready</b> . Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per ng unit when more than one parking space is provided for use by a single dwelling unit.				ermit approval by the local building department. See Civil of a noncompliant plumbing fixture, types of residential ent dates.			necessary and shall be a 1. Identify the construct reuse on the project
tion: Areas of parking facilities served by parking lifts. Aultifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more			<b>4.303.1.1 Water Closets.</b> The effective flush volum flush. Tank-type water closets shall be certified to the Specification for Tank-type Toilets.	e of all water closets shall not exceed 1.28 gallons per e performance criteria of the U.S. EPA WaterSense			<ol> <li>Specify if construction bulk mixed (single st</li> <li>Identify diversion fac</li> </ol>
of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to			<b>Note</b> : The effective flush volume of dual flush of two reduced flushes and one full flush.	toilets is defined as the composite, average flush volume			taken. 4. Identify construction generated.
Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types king facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical			<b>4.303.1.2 Urinals.</b> The effective flush volume of wal The effective flush volume of all other urinals shall not	ll mounted urinals shall not exceed 0.125 gallons per flush. at exceed 0.5 gallons per flush.			<ol> <li>Specify that the amo by weight or volume,</li> <li>4.408.3 WASTE MANAGEME</li> </ol>
all required EV spaces at a minimum of 40 amperes.				ads shall have a maximum flow rate of not more than 1.8			enforcing agency, which demolition waste materia
ervice panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved ure EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code.			WaterSense Specification for Showerheads.	all be certified to the performance criteria of the U.S. EPA <b>ne shower</b> . When a shower is served by more than one		-	Note: The owner or con materials will be diverted 4.408.4 WASTE STREAM RE
ception: When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of king spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be uced by a number equal to the number of EV chargers installed over the five (5) percent required.			showerhead, the combined flow rate of all the a single valve shall not exceed 1.8 gallons per allow one shower outlet to be in operation at a	showerheads and/or other shower outlets controlled by minute at 80 psi, or the shower shall be designed to only time.			weight of construction ar lbs./sq.ft. of the building Section 4.408.1
construction documents shall show locations of future EV spaces.			Note: A hand-held shower shall be cons 4.303.1.4 Faucets.	sidered a showernead.			4.408.4.1 WASTE STR weight of construction an per square foot of the bu
here is no requirement for EV spaces to be constructed or available until receptacles for EV charging or chargers are installed for use.			not exceed 1.2 gallons per minute at 60 psi. T	The maximum flow rate of residential lavatory faucets shall he minimum flow rate of residential lavatory faucets shall			requirement in Section 4 4.408.5 DOCUMENTATION.
Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per ng unit when more than one parking space is provided for use by a single dwelling unit.				nd Public Use Areas. The maximum flow rate of lavatory eas (outside of dwellings or sleeping units) in residential			compliance with Section
ception: Areas of parking facilities served by parking lifts.			buildings shall not exceed 0.5 gallons per minu				1. Sample forms (Residential)"
<b>Chargers.</b> Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. common use parking is provided, at least one EV charger shall be located in the common use parking nd shall be available for use by all residents or guests.			more than 0.2 gallons per cycle.	tets when installed in residential buildings shall not deliver flow rate of kitchen faucets shall not exceed 1.8 gallons			documenting 2. Mixed constru Department of
low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, omatic load management system (ALMS) may be used to reduce the maximum required electrical ity to each space served by the ALMS. The electrical system and any on-site distribution transformers are sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS)			to exceed 2.2 gallons per minute at 60 psi, and minute at 60 psi.	porarily increase the flow above the maximum rate, but not a must default to a maximum flow rate of 1.8 gallons per le, aerators or other means may be used to achieve			4.410 BUILDING MAIN 4.410.1 OPERATION AND MA disc, web-based reference following shall be placed
I by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall a capacity of not less than 30 amperes. ALMS shall not be used to reduce the minimum required electrical ity to the required EV capable spaces.			reduction. 4.303.1.4.5 Pre-rinse spray valves.				<ol> <li>Directions to the own life cycle of the struc</li> <li>Operation and maint</li> </ol>
<b>.2.1 Electric vehicle charging stations (EVCS).</b> ehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.				the <i>California Code of Regulations</i> , Title 20 (Appliance Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 utomatic shutoff.			a. Equipment an photovoltaic s appliances an b. Roof and yard
on: Electric vehicle charging stations serving public accommodations, public housing, motels and hotels t be required to comply with this section. See California Building Code, Chapter 11B, for applicable nents.				and code section have been reprinted from the <i>California</i> ency Regulations),Section 1605.1 (h)(4) and Section			c. Space conditio d. Landscape irri e. Water reuse s
<b>.2.1.1 Location.</b> all comply with at least one of the following options:			TABLE H-2				<ol> <li>Information from loca resource consumption</li> <li>Public transportation</li> </ol>
e charging space shall be located adjacent to an accessible parking space meeting the requirements of California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.			STANDARDS FOR COMMERCIA				<ol> <li>Educational material and what methods a</li> <li>Information about was</li> </ol>
e charging space shall be located on an accessible route, as defined in the California Building Code, oter 2, to the building.			VALUES MANUFACTURED ON				water. 7. Instructions for main feet away from the fo 8. Information on requir
ption: Electric vehicle charging stations designed and constructed in compliance with the California ing Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section 6.4.2.2.1.2, Item 3.			[spray force in ounce force (ozf)] Product Class 1 ( $\leq$ 5.0 ozf)	1.00			painting, grading aro 9. Information about sta 10. A copy of all special
<b>.2.1.2 Electric vehicle charging stations (EVCS) dimensions.</b> rging spaces shall be designed to comply with the following:			Product Class 2 (> 5.0 ozf and $\leq$ 8.0 ozf)	1.20			<ol> <li>Information from the space around resid 12. Information and/or d</li> </ol>
inimum length of each EV space shall be 18 feet (5486 mm).			Product Class 3 (> 8.0 ozf) Title 20 Section $1605 3 (h)(4)(A)$ : Commercial	1.28 prerinse spray values manufactured on or after January			4.410.2 RECYCLING BY OCC
ninimum width of each EV space shall be 9 feet (2743 mm). In every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum			1, 2006, shall have a minimum spray force of r	ot less than 4.0 ounces-force (ozf)[113 grams-force(gf)]			building site, provide readily ac depositing, storage and collecti corrugated cardboard, glass, p
5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 3658 mm).			4.303.2 Submeters for multifamily buildings and dwellin buildings. Submeters shall be installed to measure water usage California Plumbing Code.	of individual rental dwelling units in accordance with the			ordinance, if more restrictive. <b>Exception:</b> Rural jurisdic 42649.82 (a
e slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 slope) in any direction.			<b>4.303.3 Standards for plumbing fixtures and fittings.</b> Pl accordance with the <i>California Plumbing Code</i> , and shall m				this section
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 ith the accessibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section			1701.1 of the California Plumbing Code.				DIVISION 4.5 EN
.3 EV space requirements.			THIS TABLE COMPILES THE DATA IN SECTION 4 CONVENIENCE FOR THE USER. TABLE - MAXIMUM FIXTURE WATER				SECTION 4.501 GEN 4.501.1 Scope The provisions of this chapter s irritating and/or harmful to the c
V space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch e raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close			FIXTURE TYPE	FLOW RATE			SECTION 4.502 DEFI
to the location or the proposed location of the EV space. Construction documents shall identify the ermination point, receptacle or charger location, as applicable. The service panel and/ or subpanel shall -ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device or space(s) reserved to permit installation of a branch circuit overcurrent protective device.			SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI MAX. 1.2 GPM @ 60 PSI_MIN. 0.8 GPM @ 20			5.102.1 DEFINITIONS The following terms are defined AGRIFIBER PRODUCTS. Agr cores, not including furniture, fi
on: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is I in close proximity to the location or the proposed location of the EV space, at the time of original ction in accordance with the California Electrical Code.			LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	PSI 0.5 GPM @ 60 PSI			<b>COMPOSITE WOOD PRODU</b> medium density fiberboard. "Co
EV spaces required. Construction documents shall indicate the raceway termination point and the			KITCHEN FAUCETS	1.8 GPM @ 60 PSI			structural panels, structural cor wood l-joists or finger-jointed lu 93120.1.
f installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide on on amperage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required			METERING FAUCETS WATER CLOSET	0.2 GAL/CYCLE 1.28 GAL/FLUSH			DIRECT-VENT APPLIANCE.
load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required and related components that are planned to be installed underground, enclosed, inaccessible or in d areas and spaces shall be installed at the time of original construction.			URINALS	0.125 GAL/FLUSH			combustion from the outside at

### N/A RESPON. PARTY

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

### **FDOOR WATER USE**

DOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with efficient landscape ordinance or the current California Department of Water Resources' Model Water Iscape Ordinance (MWELO), whichever is more stringent.

Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, e 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are ilable at: https://www.water.ca.gov/

### ON 4.4 MATERIAL CONSERVATION AND RESOURCE ENCY

HANCED DURABILITY AND REDUCED MAINTENANCE ENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in ottom plates at exterior walls shall be protected against the passage of rodents by closing such ngs with cement mortar, concrete masonry or a similar method acceptable to the enforcing

NSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING STRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 nt of the non-hazardous construction and demolition waste in accordance with either Section , 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste

### ions:

avated soil and land-clearing debris.

rnate waste reduction methods developed by working with local agencies if diversion or ycle facilities capable of compliance with this item do not exist or are not located reasonably se to the jobsite. e enforcing agency may make exceptions to the requirements of this section when isolated bsites are located in areas beyond the haul boundaries of the diversion facility.

TRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan ormance with Items 1 through 5. The construction waste management plan shall be updated as sary and shall be available during construction for examination by the enforcing agency.

ntify the construction and demolition waste materials to be diverted from disposal by recycling, se on the project or salvage for future use or sale. ecify if construction and demolition waste materials will be sorted on-site (source separated) or mixed (single stream)

ntify diversion facilities where the construction and demolition waste material collected will be ntify construction methods employed to reduce the amount of construction and demolition waste ecify that the amount of construction and demolition waste materials diverted shall be calculated

### weight or volume, but not by both.

STE MANAGEMENT COMPANY. Utilize a waste management company, approved by the ing agency, which can provide verifiable documentation that the percentage of construction and tion waste material diverted from the landfill complies with Section 4.408.1.

The owner or contractor may make the determination if the construction and demolition waste als will be diverted by a waste management company.

STE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined of construction and demolition waste disposed of in landfills, which do not exceed 3.4 t. of the building area shall meet the minimum 65% construction waste reduction requirement in

4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined t of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds uare foot of the building area, shall meet the minimum 65% construction waste reduction ment in Section 4.408.1

**JMENTATION**. Documentation shall be provided to the enforcing agency which demonstrates ance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4..

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. fixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

### LDING MAINTENANCE AND OPERATION

**RATION AND MAINTENANCE MANUAL.** At the time of final inspection, a manual, compact eb-based reference or other media acceptable to the enforcing agency which includes all of the ng shall be placed in the building:

ections to the owner or occupant that the manual shall remain with the building throughout the

cycle of the structure. eration and maintenance instructions for the following: Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major

appliances and equipment.

Roof and yard drainage, including gutters and downspouts. Space conditioning systems, including condensers and air filters.

Landscape irrigation systems. Water reuse systems.

rmation from local utility, water and waste recovery providers on methods to further reduce ource consumption, including recycle programs and locations.

blic transportation and/or carpool options available in the area. icational material on the positive impacts of an interior relative humidity between 30-60 percent

d what methods an occupant may use to maintain the relative humidity level in that range. rmation about water-conserving landscape and irrigation design and controllers which conserve

tructions for maintaining gutters and downspouts and the importance of diverting water at least 5 away from the foundation rmation on required routine maintenance measures, including, but not limited to, caulking,

nting, grading around the building, etc. prmation about state solar energy and incentive programs available.

copy of all special inspections verifications required by the enforcing agency or this code. ormation from the Department of Forestry and Fire Protection on maintenance of defensible ace around residential structures. prmation and/or drawings identifying the location of grab bar reinforcements.

YCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a provide readily accessible area(s) that serves all buildings on the site and are identified for the prage and collection of non-hazardous materials for recycling, including (at a minimum) paper, ardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling more restrictive.

tion: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.

### **DN 4.5 ENVIRONMENTAL QUALITY**

### 4.501 GENERAL

s of this chapter shall outline means of reducing the quality of air contaminants that are odorous, r harmful to the comfort and well being of a building's installers, occupants and neighbors.

### 4.502 DEFINITIONS

terms are defined in Chapter 2 (and are included here for reference)

PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door luding furniture, fixtures and equipment (FF&E) not considered base building elements.

WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and ity fiberboard. "Composite wood products" does not include hardboard, structural plywood, els, structural composite lumber, oriented strand board, glued laminated timber, prefabricated r finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section

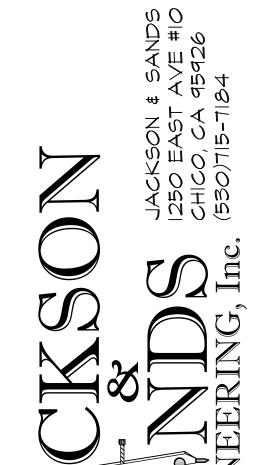
**APPLIANCE.** A fuel-burning appliance with a sealed combustion system that draws all air for rom the outside atmosphere and discharges all flue gases to the outside atmosphere.

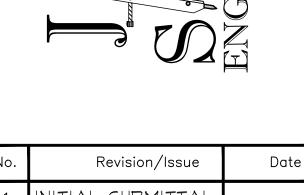
DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BUILD

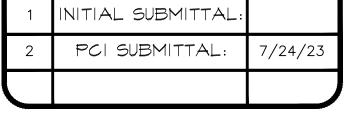
### General Notes

JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT.





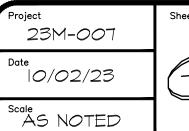












# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y N/A RES	SPON. RTY			Y N/A RESPON. PARTY	
			To in whicht of another family the state		TABLE 4.504.2 - SEAL
	compou	UM INCREMENTAL REACTIVITY (MIR). The maximum chan, ind to the "Base Reactive Organic Gas (ROG) Mixture" per wei iths of a gram (g O <sup>3</sup> /g ROC).			(Less Water and Less Exempt
		IR values for individual compounds and hydrocarbon solvents	are specified in CCR, Title 17, Sections 94	4700	SEALANTS
		JRE CONTENT. The weight of the water in wood expressed in	percentage of the weight of the oven-dry	wood.	ARCHITECTURAL MARINE DECK
	PRODU	ICT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR f	or all ingredients in a product subject to th	nis III	NONMEMBRANE ROOF
	product	The PWMIR is the total product reactivity expressed to hundred (excluding container and packaging).		of	ROADWAY
		WMIR is calculated according to equations found in CCR, Title			SINGLE-PLY ROOF MEMBR/
		IVE ORGANIC COMPOUND (ROC). Any compound that has t ormation in the troposphere.	the potential, once emitted, to contribute to		OTHER SEALANT PRIMERS
		volatile organic compound (VOC) broadly defined as a chemic por pressures greater than 0.1 millimeters of mercury at room to			ARCHITECTURAL
	hydroge	en and may contain oxygen, nitrogen and other elements. See			NON-POROUS
	4.503.1	FIREPLACES GENERAL. Any installed gas fireplace shall be a direct-vent s			POROUS
	applical	ove or pellet stove shall comply with U.S. EPA New Source Pe ole, and shall have a permanent label indicating they are certific the stand framework of the standard stand standard standard st	ed to meet the emission limits. Woodstov	nits as es,	MODIFIED BITUMINOUS
		oves and fireplaces shall also comply with applicable local ordi <b>POLLUTANT CONTROL</b>	indices.		OTHER
	4.504.1 CONST startup opening	COVERING OF DUCT OPENINGS & PROTECTION OF MEC RUCTION. At the time of rough installation, during storage on of the heating, cooling and ventilating equipment, all duct and o is shall be covered with tape, plastic, sheet metal or other meth	the construction site and until final other related air distribution component nods acceptable to the enforcing agency to	o	
		the amount of water, dust or debris which may enter the syster <b>FINISH MATERIAL POLLUTANT CONTROL.</b> Finish materia			TABLE 4.504.3 - VO
	r	.504.2.1 Adhesives, Sealants and Caulks. Adhesives, seala equirements of the following standards unless more stringent to		eet the	ARCHITECTURAL C
	n	nanagement district rules apply: 1. Adhesives, adhesive bonding primers, adhesive prime	are ecclepte ecclept primers and eculto		GRAMS OF VOC PER LITE COMPOUNDS
		shall comply with local or regional air pollution control applicable or SCAQMD Rule 1168 VOC limits, as sho	l or air quality management district rules w		COATING CATEGORY
		Such products also shall comply with the Rule 1168 p compounds (chloroform, ethylene dichloride, methyle	prohibition on the use of certain toxic		FLAT COATINGS NON-FLAT COATINGS
		tricloroethylene), except for aerosol products, as spec	cified in Subsection 2 below.		NONFLAT-HIGH GLOSS C
		<ol> <li>Aerosol adhesives, and smaller unit sizes of adhesive units of product, less packaging, which do not weigh than 16 fluid support April comply with statewide VO</li> </ol>	more than 1 pound and do not consist of n	nore	SPECIALTY COATINGS
		than 16 fluid ounces) shall comply with statewide VO prohibitions on use of certain toxic compounds, of <i>Ca</i> commencing with section 94507.			ALUMINUM ROOF COATIN
		.504.2.2 Paints and Coatings. Architectural paints and coatir			BASEMENT SPECIALTY C BITUMINOUS ROOF COAT
	ti a	ne ARB Architectural Suggested Control Measure, as shown in pply. The VOC content limit for coatings that do not meet the o	Table 4.504.3, unless more stringent loca definitions for the specialty coatings categories	al limits ories	BITUMINOUS ROOF PRIM
	c	sted in Table 4.504.3 shall be determined by classifying the co- oating, based on its gloss, as defined in subsections 4.21, 4.36	6, and 4.37 of the 2007 California Air Reso	ources	BOND BREAKERS
		oard, Suggested Control Measure, and the corresponding Flat able 4.504.3 shall apply.	, Nonliat of Nonliat-High Gloss VOC limit I		CONCRETE CURING COM
	4	<b>.504.2.3 Aerosol Paints and Coatings.</b> Aerosol paints and crimits for ROC in Section 94522(a)(2) and other requirements, i	oatings shall meet the Product-weighted N including prohibitions on use of certain tox	/IR IIII	DRIVEWAY SEALERS
	C F	ompounds and ozone depleting substances, in Sections 94522 Regulations, Title 17, commencing with Section 94520; and in a	2(e)(1) and (f)(1) of <i>California Code of</i> areas under the jurisdiction of the Bay Area	a Air	DRY FOG COATINGS
		Quality Management District additionally comply with the percer , Rule 49.	nt VOC by weight of product limits of Regu	Ilation	
		<b>.504.2.4 Verification.</b> Verification of compliance with this sect nforcing agency. Documentation may include, but is not limite			FIRE RESISTIVE COATING
		1. Manufacturer's product specification.	a to, the following.		FORM-RELEASE COMPOL
		2. Field verification of on-site product containers.			GRAPHIC ARTS COATING
					HIGH TEMPERATURE CO
		TABLE 4.504.1 - ADHESIVE VOC LIMI			LOW SOLIDS COATINGS
		(Less Water and Less Exempt Compounds in Grams ARCHITECTURAL APPLICATIONS	s per Liter) VOC LIMIT		MAGNESITE CEMENT CO
		INDOOR CARPET ADHESIVES	50		MASTIC TEXTURE COATIN
		CARPET PAD ADHESIVES	50		METALLIC PIGMENTED CO MULTICOLOR COATINGS
		OUTDOOR CARPET ADHESIVES	150		PRETREATMENT WASH P
		WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES	60		PRIMERS, SEALERS, & UN
		SUBFLOOR ADHESIVES	50		REACTIVE PENETRATING
		CERAMIC TILE ADHESIVES	65		RECYCLED COATINGS
		VCT & ASPHALT TILE ADHESIVES	50		RUST PREVENTATIVE CO
		DRYWALL & PANEL ADHESIVES COVE BASE ADHESIVES	50		SHELLACS
		MULTIPURPOSE CONSTRUCTION ADHESIVE	70		CLEAR
		STRUCTURAL GLAZING ADHESIVES	100		SPECIALTY PRIMERS, SEA
		SINGLE-PLY ROOF MEMBRANE ADHESIVES	250 50		UNDERCOATERS
		OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS	00		STAINS STONE CONSOLIDANTS
		PVC WELDING	510		SWIMMING POOL COATIN
		CPVC WELDING	490		TRAFFIC MARKING COAT
		ABS WELDING	325		TUB & TILE REFINISH CO
		PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC	250 550		WATERPROOFING MEMB
		CONTACT ADHESIVE	80		WOOD PRESERVATIVES
		SPECIAL PURPOSE CONTACT ADHESIVE	250		ZINC-RICH PRIMERS
		STRUCTURAL WOOD MEMBER ADHESIVE	250		1. GRAMS OF VOC PER L EXEMPT COMPOUNDS
		TOP & TRIM ADHESIVE SUBSTRATE SPECIFIC APPLICATIONS	230		2. THE SPECIFIED LIMITS ARE LISTED IN SUBSEQU
		METAL TO METAL	30		3. VALUES IN THIS TABLE
		PLASTIC FOAMS	50		THE CALIFORNIA AIR RES SUGGESTED CONTROL M
		POROUS MATERIAL (EXCEPT WOOD)	50		AVAILABLE FROM THE AI
		WOOD	<u>30</u> 80		
		1. IF AN ADHESIVE IS USED TO BOND DISSIMILA			
		THE ADHESIVE WITH THE HIGHEST VOC CONTE 2. FOR ADDITIONAL INFORMATION REGARDING			
		THE VOC CONTENT SPECIFIED IN THIS TABLE, S			
	I	QUALITY MANAGEMENT DISTRICT RULE 1168.			
		QUALITY MANAGEMENT DISTRICT RULE 1168.			

ABLE 4.504.2 - SEALANT VOC LIMIT TABLE 4.504.5 - FORMALDEHYDE LIMITS ess Water and Less Exempt Compounds in Grams per Liter) MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION VOC LIMIT PRODUCT **CURRENT LIMIT** 250 HARDWOOD PLYWOOD VENEER CORE 0.05 760 HARDWOOD PLYWOOD COMPOSITE CORE 0.05 300 PARTICLE BOARD 0.09 250 MEDIUM DENSITY FIBERBOARD 0.11 NGLE-PLY ROOF MEMBRANE 450 THIN MEDIUM DENSITY FIBERBOARD2 0.13 420 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD. AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 250 93120.12. 775 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM). 500 760 DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 750 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350) See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx TABLE 4.504.3 - VOC CONTENT LIMITS FOR 4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the ARCHITECTURAL COATINGS2.3 California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT (Emission testing method for California Specification 01350) See California Department of Public Health's website for certification programs and testing labs. VOC LIMIT https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx. 50 100 4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1. NONFLAT-HIGH GLOSS COATINGS 150 4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," ALUMINUM ROOF COATINGS 400 Version 1.2, January 2017 (Emission testing method for California Specification 01350) BASEMENT SPECIALTY COATINGS 400 See California Department of Public Health's website for certification programs and testing labs. BITUMINOUS ROOF COATINGS 50 hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx. **BITUMINOUS ROOF PRIMERS** 350 350 4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for CONCRETE CURING COMPOUNDS 350 formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5 CONCRETE/MASONRY SEALERS 100 **4.504.5.1 Documentation.** Verification of compliance with this section shall be provided as requested 50 by the enforcing agency. Documentation shall include at least one of the following: 150 1. Product certifications and specifications. FAUX FINISHING COATINGS 350 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see FIRE RESISTIVE COATINGS 350 CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered 100 Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA FORM-RELEASE COMPOUNDS 250 0121, CSA 0151, CSA 0153 and CSA 0325 standards. 5. Other methods acceptable to the enforcing agency. GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH TEMPERATURE COATINGS 420 4.505 INTERIOR MOISTURE CONTROL INDUSTRIAL MAINTENANCE COATINGS 250 **4.505.1 General.** Buildings shall meet or exceed the provisions of the California Building Standards Code. LOW SOLIDS COATINGS1 120 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by MAGNESITE CEMENT COATINGS 450 California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section. MASTIC TEXTURE COATINGS 100 4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with PRETREATMENT WASH PRIMERS 420 a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, PRIMERS, SEALERS, & UNDERCOATERS 100 ACI 302.2R-06. REACTIVE PENETRATING SEALERS 350 2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional. RECYCLED COATINGS 250 **4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS.** Building materials with visible signs of water damage 50 shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent RUST PREVENTATIVE COATINGS moisture content. Moisture content shall be verified in compliance with the following: 250 1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements 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 550 of each piece verified. SPECIALTY PRIMERS, SEALERS & 3. At least three random moisture readings shall be performed on wall and floor framing with documentation 100 acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. 250 Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying 450 ecommendations prior to enclosure. SWIMMING POOL COATINGS 340 4.506 INDOOR AIR QUALITY AND EXHAUST TRAFFIC MARKING COATINGS 100 **4.506.1 Bathroom exhaust fans.** Each bathroom shall be mechanically ventilated and shall comply with the following: **TUB & TILE REFINISH COATINGS** 420 1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. WATERPROOFING MEMBRANES 250 2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a 275 humidity control. WOOD PRESERVATIVES 350 a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of 340 adjustment. b. A humidity control may be a separate component to the exhaust fan and is not required to be GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & integral (i.e., built-in) EXEMPT COMPOUNDS 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE. 1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or 3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY tub/shower combination. THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS 2. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code. SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS 4.507 ENVIRONMENTAL COMFORT AVAILABLE FROM THE AIR RESOURCES BOARD. 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods: 1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods. 2. Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods. **Exception:** Use of alternate design temperatures necessary to ensure the system functions are acceptable

1. Certific 2. Certific perform 3. Succe 4. Other Notes: 1. 2. [BSC] When rec employ one or m this code. Speci particular type of recognized state shall be closely r Note: Spe project the 703 VERI 703.1 DOCL limited to, constr methods accepta

N/A RESPON.

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

### CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS

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

### State certified apprenticeship programs. Public utility training programs.

Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
 Programs sponsored by manufacturing organizations.
 Other programs acceptable to the enforcing agency.

### 702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the

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

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

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

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

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

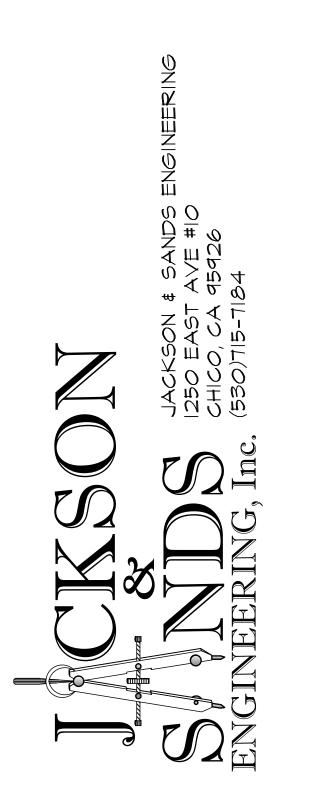
### **703 VERIFICATIONS**

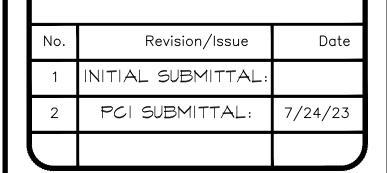
**703.1 DOCUMENTATION.** Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance.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

### General Notes

JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT.



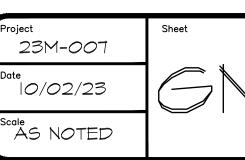




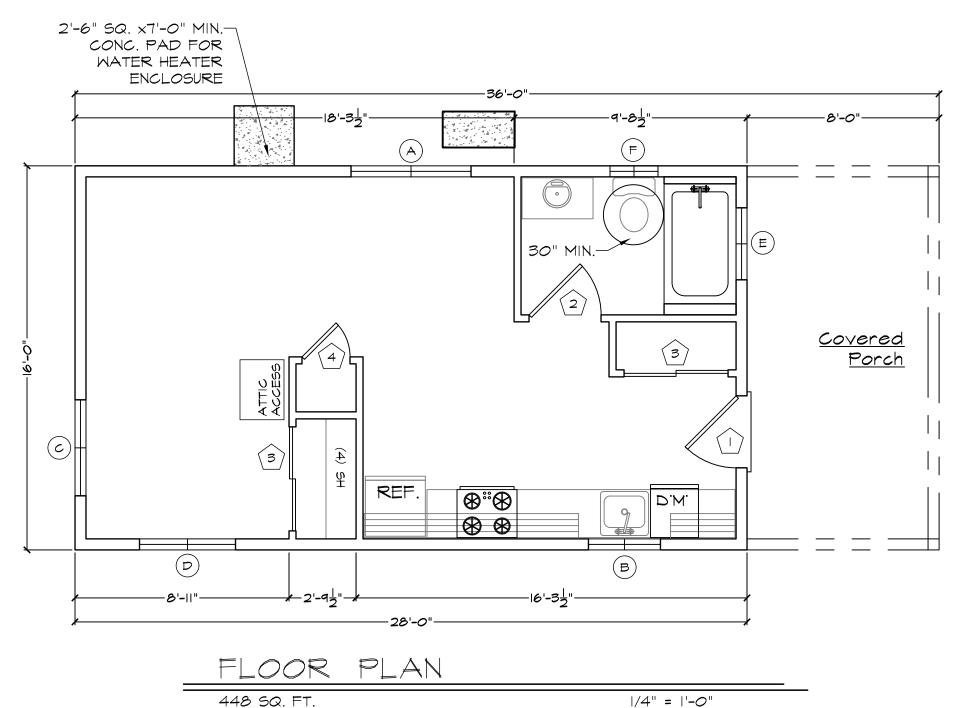




STUDIO ADU



DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE FULL CODE.



FLOOR PLAN NOTES

- I. WHEN AUTOMATIC FIRE SPRINKLERS ARE REQUIRED THROUGHOUT THE RESIDENCE, FIRE SPRINKLERS SHALL BE DESIGNED BY A CALIFORNIA CONTRACTOR CLASSIFICATION C-16. FIRE SPRINKLER SHALL BE REQUIRED IF THE PRIMARY RESIDENCE HAS FIRE SPRINKLERS.
- 2. EXTERIOR WALLS TO BE 2X6 DF NO. 2 STUDS AT 16" O.C. WITH R-21 INSULATION. SIDING/ SHEAR AS SHOWN ON.
- 3. INTERIOR WALLS TO BE 2X4 DF NO.2 STUDS AT 16" O.C.
- 4. TYPICAL WALL HEIGHT IS  $9'O-\frac{3}{4}"$ 5. IF POSSIBLE, PLEASE TRY TO LOCATE WATER HEATER & AIR CONDITIONER CONDENSER TOWARDS THE INSIDE OF THE PARCEL OPPOSITE OF THE STREET VIEW SIDE OF THE ADU.
- 6. NO OPENING SHALL BE PERMITTED IN THE EXTERIOR WALLS, INCLUDING VENTS, OF GROUP R-3 OCCUPANCIES WHERE THE EXTERIOR WALL IS CLOSER THAN 5' TO THE PROPERTY LINE 2022 CRC TABLE R302.I(I) & TABLE R302.I(2)
- 7. LISTED INSTALLATION INSTRUCTION OR MANUALS SHALL BE ON SITE \$ AVAILABLE FOR PLUMBING, MECHANICAL, ELECTRICAL EQUIPMENT OR OTHER INSTALLATIONS DURING FIELD INSPECTION OF SPECIFIC APPLIANCES OR FEATURES.
- 8. RODENT PROOFING & INSECT INTRUSION PROTECTION. ANNULAR SPACES AROUND PIPES, ELECTRICAL CABLE CONDUITS OR OTHER OPENINGS IN BOTTOM/SOLE PLATE AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS IN ACCORDANCE WITH THE 2022 CAL GREEN BUILDING CODE, CHAPTER 4. DIVISION 4.4 SECTION 4.406. CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE BY THE ENFORCING AGENCY. METHOD ACCEPTABLE BY YUBA COUNTY BUILDING DIVISION WOULD BE LOW VOC CAULKING WITH NON-COMBUSTIBLE FILLING MATERIAL.

INGRESS/EGRESS WINDOWS IN BEDROOMS AND SLEEPING AREAS:

R310.2.1 MINIMUM OPENING AREA. EMERGENCY AND ESCAPE RESCUE OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET. THE NET CLEAR OPENING DIMENSIONS REQUIRED BY THIS SECTION SHALL BE OBTAINED BY THE NORMAL OPERATION OF THE EMERGENCY ESCAPE AND RESCUE OPENING FROM THE INSIDE. THE NET CLEAR HEIGHT OPENING SHALL BE NOT LESS THAN 24 INCHES AND THE NET CLEAR WIDTH SHALL BE NOT LESS THAN 20 INCHES. EXCEPTION: GRADE FLOOR OR BELOW GRADE OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5 SQUARE FEET.

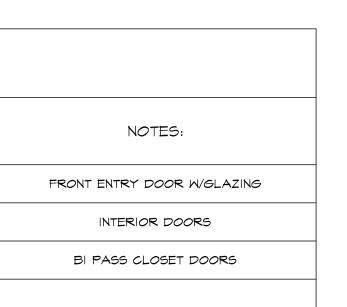
448 SQ. FT.

DOOR SCHEDULE DOOR SIZE DOOR DOOR CORE MATERIAL FRAME SYMBOL TYPE WIDTH THICK HEIGHT  $\bigcirc$ SINGLE 3'-0" |-3/4" SOLID METAL/GLASS WOOD 6'-8" DOOR 2 SINGLE 3'-0" |-3/4" HOLLOW 6'-8" WOOD WOOD DOOR 3 HOLLOW 4'-4" 6'-8" |-3/4" SLIDER WOOD WOOD 4 SINGLE 2'-0" 6'-8" |-3/4" HOLLOW WOOD WOOD DOOR

MINDOW	WINDO	DW SIZE				HEAD			NOTEC
SYMBOL	WIDTH	HEIGHT	OPER.	QNTY.	FRAME	HEIGHT	U-FACTOR	SHGC	NOTES:
A	5'-0"	4'-0"	SLIDER	I	VINYL	6'-8"	0.3	.23	
В	3'-0"	3'-0"	SLIDER	I	VINYL	6'-8"	0.3	.23	
٢	4'-0"	3'-0"	SLIDER	I	VINYL	6'-8"	0.3	.23	EGRESS
D	4'-0"	'-0"	SLIDER	I	VINYL	6'-8"	0.3	.23	TEMPERED, OBSCURED
E	3'-0"	'-0"	SLIDER	I	VINYL	6'-8"	0.3	.23	TEMPERED, OBSCURED
F	2'-0"	2'-0"	SLIDER		VINYL	6'-8"	0.3	.23	

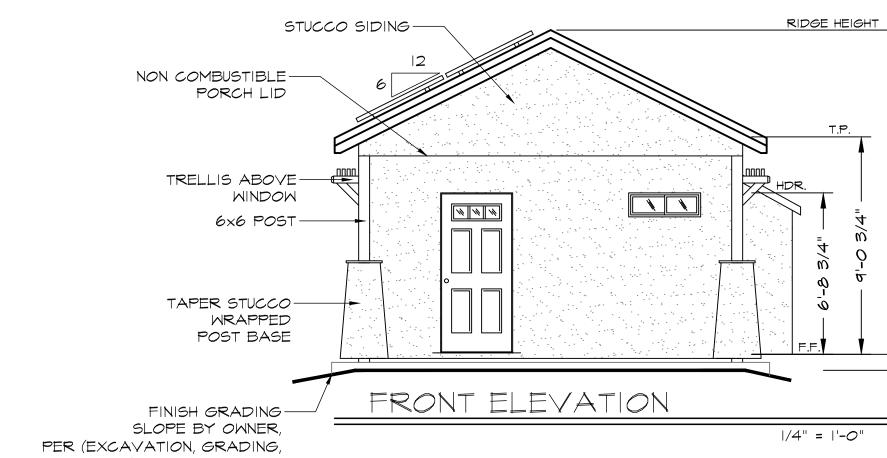
\*DO NOT REMOVE LABELS INDICATING U-FACTORS AND SOLAR HEAT GAIN COEFFICIENT (SHGC) FROM WINDOWS AND DOORS. VERIFY TEMPORARY LABELS WITH CITY OF ORLAND BUILDING INSPECTOR.

WINDOW SCHEDULE



General Notes JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT.
Proud Listory Proud Listory Proud Listory Bright Finance
TOPOSITION STATE AND
No.Revision/IssueDate1INITIAL SUBMITTAL:2PCI SUBMITTAL:7/24/23
PROFESS/OW Stand NK A. STAN C 080655 C 08055 C 0 0 C 0 C
ORLAND ADU 450 sq. ft. studio adu
Project 23M-007 Date 10/02/23 Scale AS NOTED

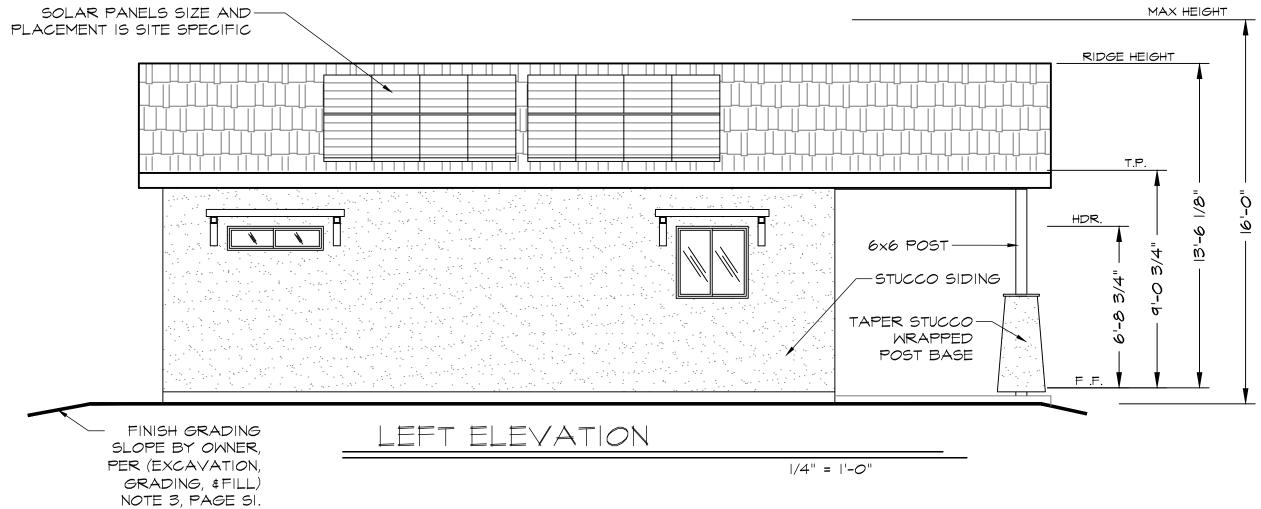
R319.1 ADDRESS IDENTIFICATION. BUILDINGS SHALL BE PROVIDED WITH APPROVED ADDRESS IDENTIFICATION. THE ADDRESS DENTIFICATION SHALL BE LEGIBLE AND PLACED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. ADDRESS IDENTIFICATION CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL NOT BE SPELLED OUT. EACH CHARACTER SHALL BE NOT LESS THAN 4 INCHES (102 MM) IN HEIGHT WITH A STROKE WIDTH OF NOT LESS THAN 0.5 INCH (12.7 MM). WHERE REQUIRED BY THE FIRE CODE OFFICIAL, ADDRESS IDENTIFICATION SHALL BE PROVIDED IN ADDITIONAL APPROVED LOCATIONS TO FACILITATE EMERGENCY RESPONSE. WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING ADDRESS CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. ADDRESS IDENTIFICATION SHALL BE MAINTAINED. 

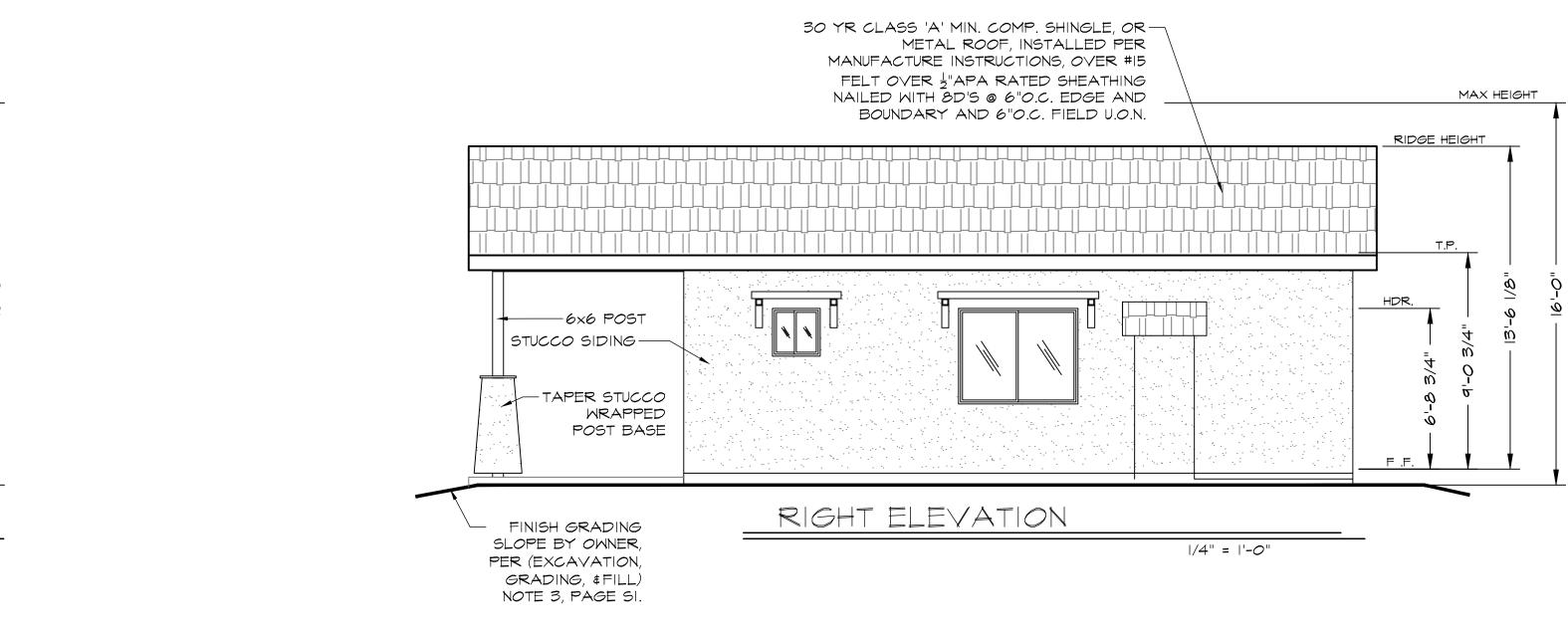


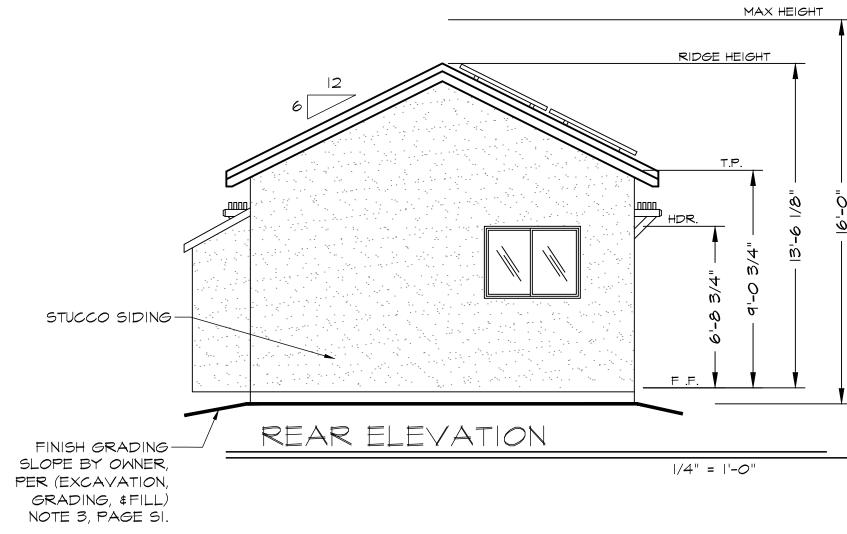
MAX HEIGHT

& FILL) NOTE 3, PAGE SI.

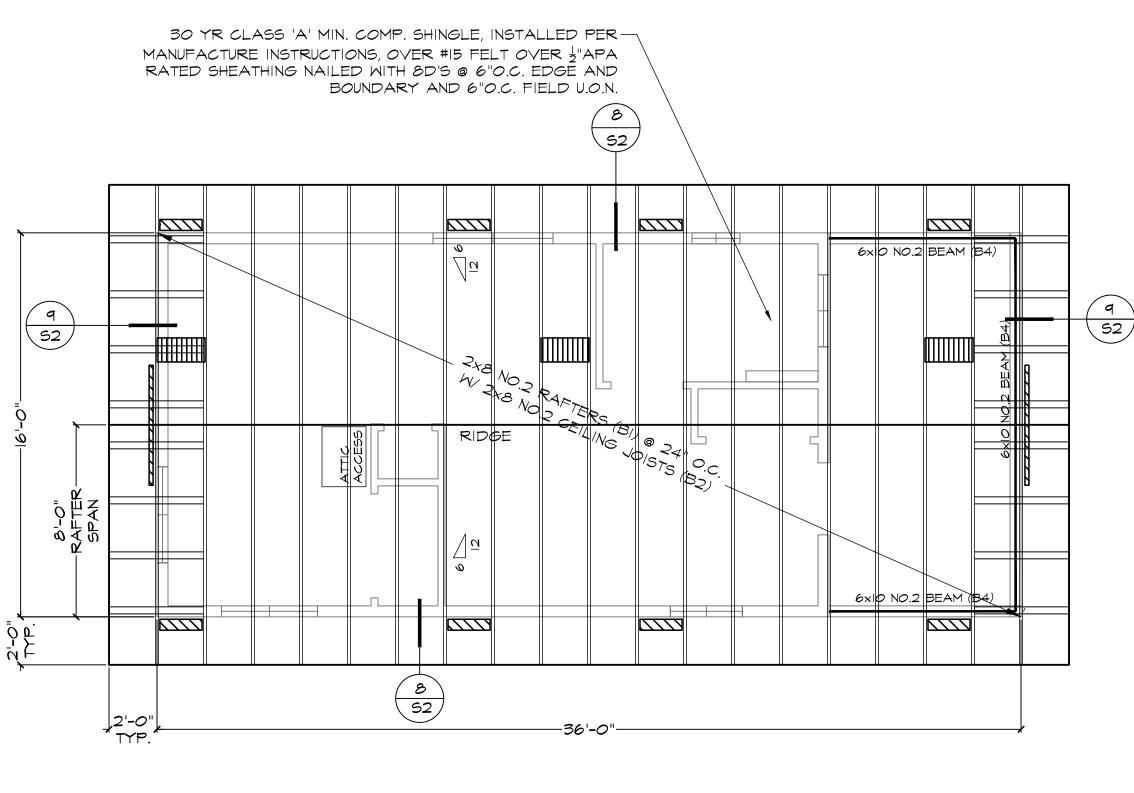








General Notes JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT. (D 0 05000 $\mathfrak{w} + \mathfrak{w}$ i Π Ū Ψ ۲<del>۳</del>٦ Revision/Issue Date INITIAL SUBMITTAL PCI SUBMITTAL: 7/24/23 10/02/23 ORLAND ADL 450 SQ. FT. STUDIO ADU roiect Sheet 23M-007 Date 10/02/23 AS NOTED MIRROR



ATTIC VENTIL \* EQUIVALENT

DESCRIPTION

ATTIC SPACE TOT

LOWER VENT

UPPER VENTS

ROOF	PLAN	
448 SQ. FT.		/4" =  '-0"

LATION CALCULATION T MEANS OF ACHIEVING VENT AREA ARE ACCEPTABLE.								
N	SQUARE FOOTAGE	REQUIREMENT	VALUE	PROPOSED VENT	SYMBOL	NET VENT AREA/ VENT	# VENTS	IN <sup>2</sup> PROVIDED
OTAL	576	1/150	3.84 FT <sup>2</sup> 553 IN <sup>2</sup>					
Т		1/300	1.92 FT <sup>2</sup> 277 IN <sup>2</sup>	EV223-I/8		39 IN <sup>2</sup> /LF	8	312 IN <sup>2</sup>
S		1/300	1.92 FT <sup>2</sup> 277 IN <sup>2</sup>	HALF ROUND DORMER BH24-1/8		100 IN2	З	300 IN <sup>2</sup>
				TRIANGULAR 8:12 GABLE END VENT		35 IN <sup>2</sup>	2	70 IN <sup>2</sup>
							TOTAL=	682 IN <sup>2</sup>

PRO
ATTI
30"×
MEC

MINIMUM.

R903.2 FLASHING. FLASHINGS SHALL BE INSTALLED IN A MANNER THAT PREVENTS MOISTURE FROM ENTERING THE WALL AND ROOF THROUGH JOINTS IN COPINGS, THROUGH MOISTURE PERMEABLE MATERIALS AND AT INTERSECTIONS WITH PARAPET WALLS AND OTHER PENETRATIONS THROUGH THE ROOF PLANE.

R903.2.1 LOCATIONS. FLASHINGS SHALL BE INSTALLED AT WALL

AND ROOF INTERSECTIONS, WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION AND AROUND ROOF OPENINGS. A FLASHING SHALL BE INSTALLED TO DIVERT THE WATER AWAY FROM WHERE THE EAVE OF A SLOPED ROOF INTERSECTS A VERTICAL SIDEWALL. WHERE FLASHING IS OF METAL, THE METAL SHALL BE CORROSION RESISTANT WITH A THICKNESS OF NOT LESS THAN O.OI9 INCH (O.5 MM) (NO. 26 GALVANIZED SHEET).

R337.5.3 ROOF VALLEYS. WHERE VALLEY FLASHING IS INSTALLED, THE FLASHING SHALL BE NOT LESS THAN 0.019-INCH (0.48 MM) NO. 26 GAGE GALVANIZED SHEET CORROSION-RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MINIMUM 72-POUND (32.4 KG) MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909, AT LEAST 36-INCH-WIDE (914 MM) RUNNING THE FULL LENGTH OF THE VALLEY.

### NOTES:

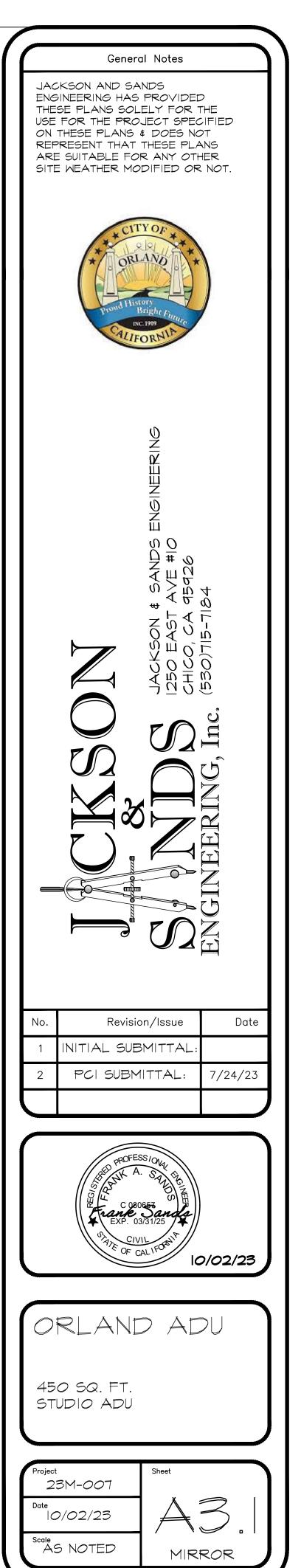
- I. ALL HEADERS TO BE 6X8 DF NO.I U.N.O 2. ROOF TERMINATION EACH VENT PIPE OR STACK SHALL EXTEND THROUGH ITS FLASHING AND SHALL TERMINATE VERTICALLY NOT LESS THAN 6" INCHES ABOVE THE ROOF NO LESS THAN I' FOOT A
- VERTICAL SURFACE. 3. EACH VENT SHALL TERMINATE NOT LESS THAN IO' FEET FROM, OR NOT LESS THAN 3' FEET ABOVE, AN OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT, OR LESS THAN 3' FEET FOF A LOT LINE, ALLEY AND STREET EXCEPTED.
- 4. ABS AND PVC PIPING EXPOSED TO SUNLIGHT SHALL BE PROTECTED BY WATER BASED SYNTHETIC LATEX PAINT.

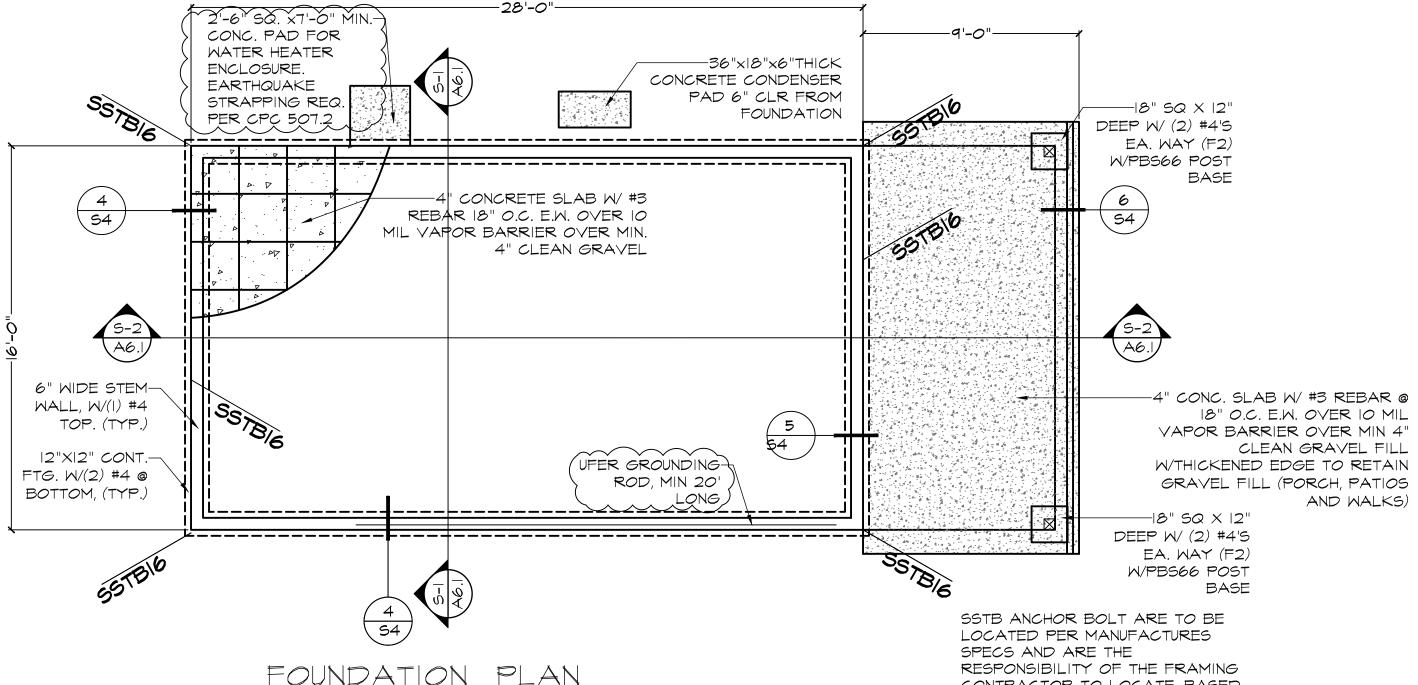
### <u>ROOF</u>

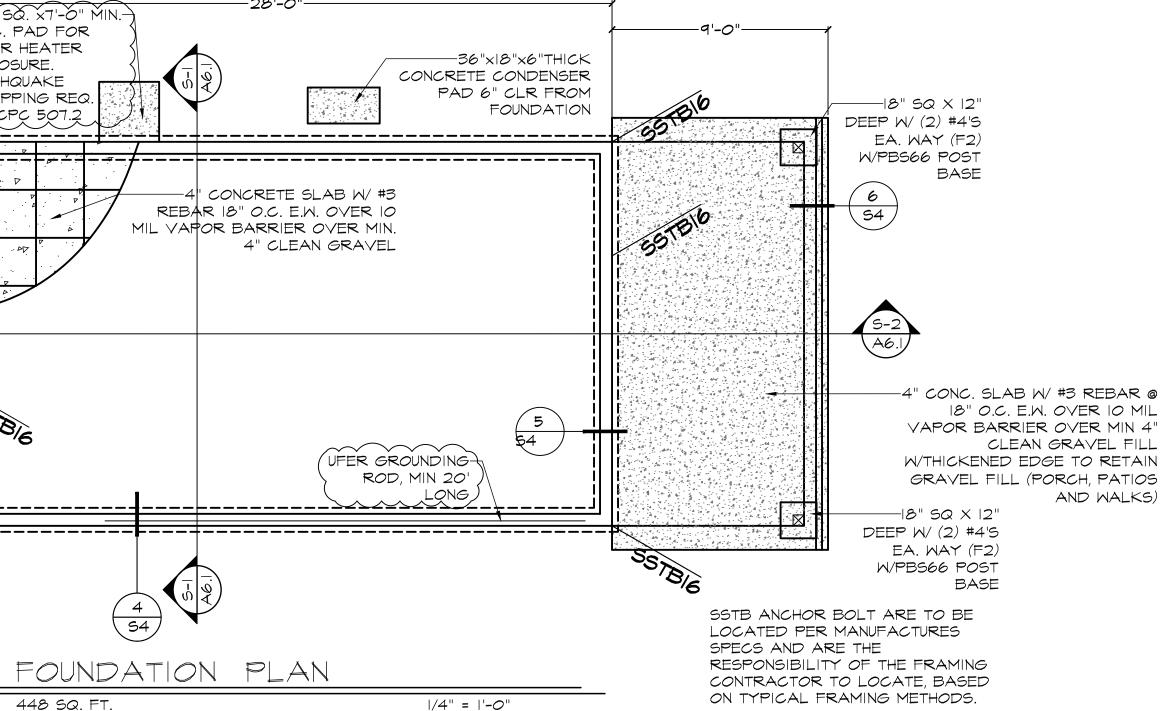
I. PROVIDE A MINIMUM  $2\overline{2"\times 30"}$  ACCESS OPENING TO TIC (CRC R807); MAY BE REQUIRED TO BE 'X30" TO REMOVE THE LARGEST PIECE OF CHANICAL EQUIPMENT PER THE CALIFORNIA MECHANICAL CODE.

2. ROOF DRAINS/GUTTERS REQUIRED TO BE INSTALLED PER THE CALIFORNIA PLUMBING CODE WITH LEAF/ DEBRIS PROTECTION ALSO INSTALLED.

3. ALL ROOFING SHALL BE TESTED/LISTED CLASS A





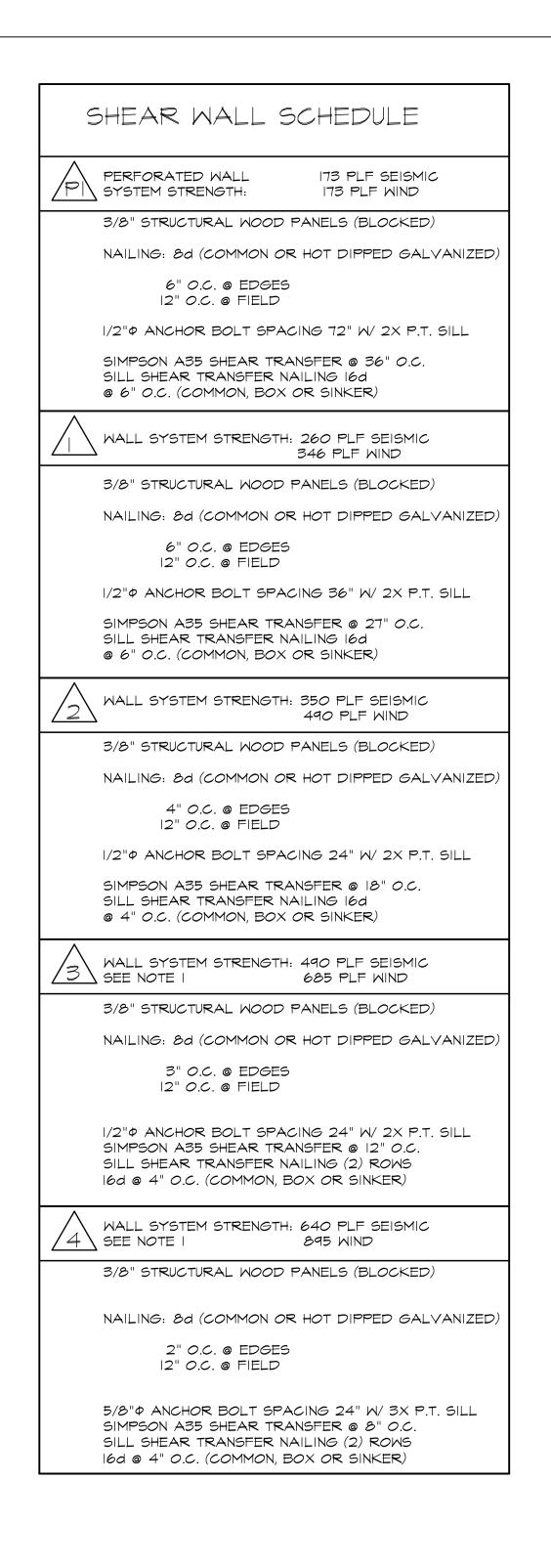


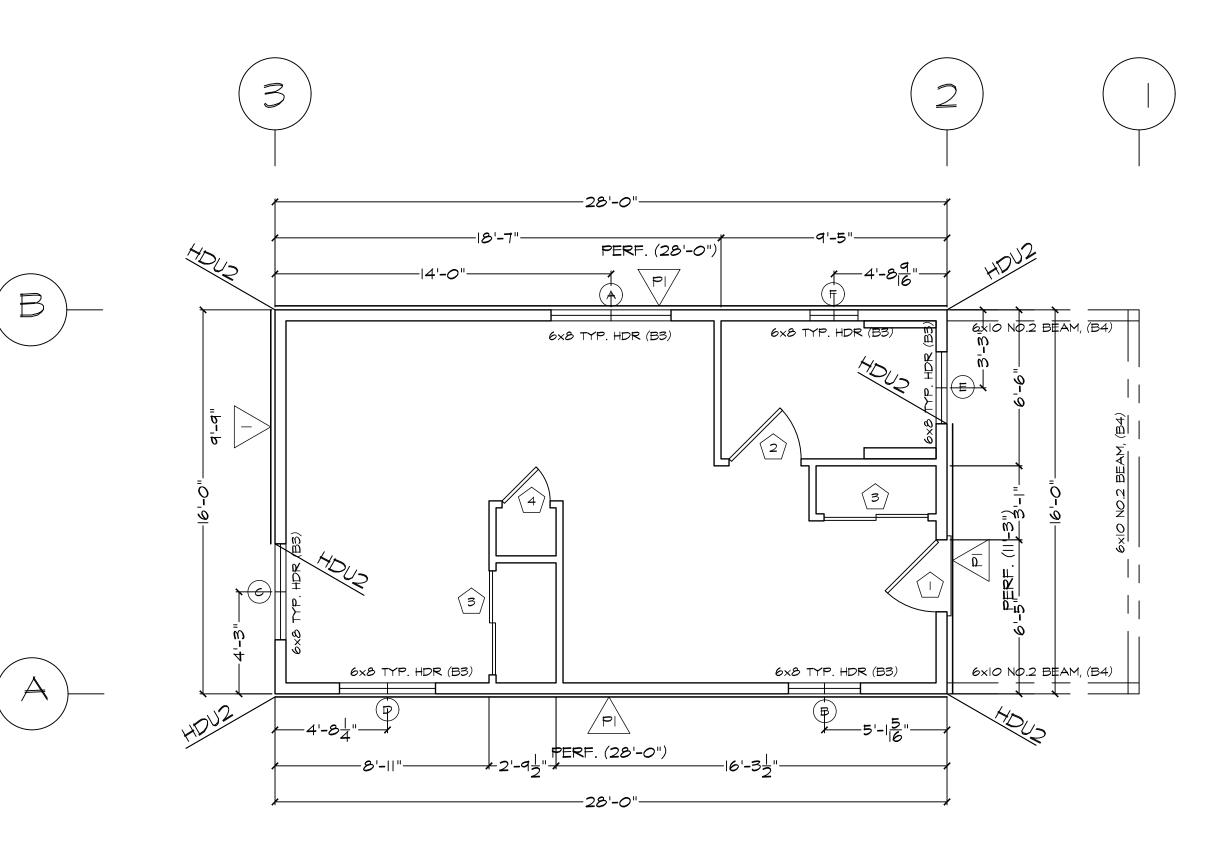
### NOTES:

- I. IF PARCEL WHERE THIS ADU IS TO BE CONSTRUCTED IN AN AREA KNOWN TO HAVE EXPANSIVE SOIL OR UPON DISCOVERY AT FOUNDATION EXCAVATION EXPANSIVE SOIL IS FOUND, THE ADDITIONAL DESIGN BY A CALIFORNIA REGISTERED DESIGN PROFESSIONAL SHALL BE REQUIRED, SUBMITTED TO THE CITY OF ORLAND AND APPROVED PRIOR TO FOUNDATION INSPECTION FOR THIS BUILDING.
- 2. THIS ADU DESIGN IS FOR A TYPICAL CITY OF ORLAND FLAT PARCEL NOT EXCEEDING A SLOPE OF 2%. IF SITE CONDITIONS EXCEED THIS SLOPE, THEN ADDITIONAL FOUNDATION DESIGN WILL BE REQUIRED BY A CALIFORNIA REGISTERED DESIGN PROFESSIONAL.
- 3. PRIOR TO ANY EXCAVATION FOR THIS PROJECT. THE OWNER AND OR CONTRACTOR SHALL REVIEW COMPLETE THE REQUREMENTS ON THE USA NORTH WEBSITE. www.usanorth.org THE OWNER AND OR CONTRACTOR HAVE A LEGAL OBLIGATION TO CONTACT, TWO WORKING DAYS, BEFORE COMMENCING DIGGING. USA NORTH BY TELEPHONE. THIS CONTACT TELEPHONE NUMBER IS 811 OR 1-800-227-2600. (CALIFORNIA GOVERNMENT CODE SEC. 4216)
- 4. THESE PLANS ARE DEIGNED FOR NATIVE SOIL AND UNDISTURBED SOIL CONDITIONS. IF PARCEL HAS IMPORTED UNCONSOLIDATED SOIL, UNCONSOLIDATED ROCK FRAGMENTS OR DISTURBED SOIL. THEN A SOIL COMPACTION REPORT SHALL BE REQUIRED AT TIME OF PERMIT APPLICATION. IF IMPORTED FILL OR DISTURBED SOIL CONDITIONS ARE FOUND AT THE TIME OF FOUNDATION EXCAVATION, A SOILS COMPACTION REPORT SHALL BE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF ORLAND BUILDING DIVISION, PRIOR TO FOUNDATION INSPECTION. IF FOUNDATION DESIGN CHANGES ARE REQUIRED, THEN DESIGN AND DRAWINGS SHALL BE SUBMITTED WITH WET STAMPS AND SIGNATURES FROM A CALIFORNIA REGISTERED DESIGN PROFESSIONAL TO ACCOMMODATE UNUSUAL SOIL OR GEOLOGIC CONDITIONS SHALL BE SUBMITTED TO THE CITY OF ORLAND BUILDING DIVISION FOR REVIEW AND APPROVAL.
- 5. PORTIONS OF THE ADU CLOSER TO THE PROPERTY LINE THAN THE DISTANCES SPECIFIED IN CRC TABLE 302.1(1) OR IF APPLICABLE, 2022 CRC TABLE 302.1(2), SHALL REQUIRE A CONSTRUCTION OF A LISTED I-HOUR FIREWALL ASSEMBLY SEPARATION OR OTHER APPROVED METHOD SPECIFIED IN THIS CODE. THE COMPLIANCE MEANS SHALL BE PROVIDED WITH THE SITE PLAN AT TIME OF APPLICATION. THIS MAY REQUIRE ADDITIONAL PLAN DESIGN BY A CALIFORNIA REGISTERED DESIGN PROFESSIONAL FOR EMERGENCY EGRESS, AND, LIGHT AND VENTILATION.

\_\_\_\_\_ (250.52 (A) (3) CONCRETE-ENCASED ELECTRODE: A CONCRETE-ENCASED ELECTRODE SHALL CONSIST OF AT LEAST 6.0 M (2 ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CON REINFORCING BARS OR RODS OF NOT LESS THAN 13 MM (1/2 IN.) IN DIAMET CONTINUOUS 6.0 M (20 FT) LENGTH, OR IF IN MULTIPLE PIECES CONNECTED STEEL TIE WIRES, EXOTHERMIC WELDING, WELDING, OR OTHER EFFECTIVE MI (20 FT) OR GREATER LENGTH; OR BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG (METALLIC COMPONENTS SHALL BE ENCASED BY AT LEAST 50 MM (2 IN.) OF (BE LOCATED HORIZONTALLY WITHIN THAT PORTION OF A CONCRETE FOUND, S IN DIRECT CONTACT WITH THE EARTH OR WITHIN VERTICAL FOUNDATIONS COMPONENTS OR MEMBERS THAT ARE IN DIRECT CONTACT WITH THE EARTH CONCRETE-ENCASED ELECTRODES ARE PRESENT AT A BUILDING OR STRUC PERMISSIBLE TO BOND ONLY ONE INTO THE GROUNDING ELECTRODE SYSTEI

	General Notes
	JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT.
a'-0"       b"x6"THICK ONDENSER CLR FROM DUNDATION       b       b       b       b       b       b       b       b       b       b       b       b       c	Provid History Bright Further Inc. 1909
5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	G, Inc. (530)715-7184
RT03.7.2.1 WEEP SCREEDS A MINIMUM 0.019-INCH (0.5 MM) (NO. 26 GALVANIZED SHEET GAGE), CORROSION-RESISTANT WEEP SCREED OR PLASTIC WEEP SCREED, WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 31/2 INCHES (89 MM), SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM C926. THE WEEP SCREED SHALL BE PLACED NOT LESS THAN 4 INCHES (102 MM) ABOVE THE EARTH OR 2 INCHES (51 MM) ABOVE PAVED AREAS AND SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE WEEP SCREED.	ENGINEERING
R401.3 DRAINAGE SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER APPROVED POINT OF COLLECTION THAT DOES NOT CREATE A HAZARD. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL NOT FEWER THAN 6 INCHES (I52 MM) WITHIN THE FIRST IO FEET (3048 MM). EXCEPTION: WHERE LOT LINES, WALLS, SLOPES OR OTHER PHYSICAL BARRIERS PROHIBIT 6 INCHES (I52 MM) OF FALL WITHIN IO FEET (3048 MM), DRAINS OR SWALES SHALL BE CONSTRUCTED TO ENSURE DRAINAGE AWAY FROM THE STRUCTURE. IMPERVIOUS SURFACES WITHIN IO FEET (3048 MM) OF THE BUILDING FOUNDATION SHALL BE SLOPED NOT LESS THAN	No.Revision/IssueDate1INITIAL SUBMITTAL:2PCI SUBMITTAL:7/24/23
2 PERCENT AWAY FROM THE BUILDING. (250.52 (A) (3) CONCRETE-ENCASED ELECTRODE: (A CONCRETE-ENCASED ELECTRODE SHALL CONSIST OF AT LEAST 6.0 M (20 FT) OF EITHER (I) OR (2): (ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL (REINFORCING BARS OR RODS OF NOT LESS THAN I3 MM (I/2 IN.) IN DIAMETER, INSTALLED IN ONE (CONTINUOUS 6.0 M (20 FT) LENGTH, OR IF IN MULTIPLE PIECES CONNECTED TOGETHER BY THE USUAL (STEEL TIE WIRES, EXOTHERMIC WELDING, WELDING, OR OTHER EFFECTIVE MEANS TO CREATE A 6.0 M	PROFESS/OVA Stand PROFESS/OVA Stand A. Synth CONTRACT
(20 FT) OR GREATER LENGTH; OR BARE COPPER CONDUCTOR NOT SMALLER THAN 4 AWG (METALLIC COMPONENTS SHALL BE ENCASED BY AT LEAST 50 MM (2 IN.) OF CONCRETE AND SHALL (BE LOCATED HORIZONTALLY WITHIN THAT PORTION OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH OR WITHIN VERTICAL FOUNDATIONS OR STRUCTURAL COMPONENTS OR MEMBERS THAT ARE IN DIRECT CONTACT WITH THE EARTH. IF MULTIPLE (CONCRETE-ENCASED ELECTRODES ARE PRESENT AT A BUILDING OR STRUCTURE, IT SHALL BE (PERMISSIBLE TO BOND ONLY ONE INTO THE GROUNDING ELECTRODE SYSTEM.	ORLAND ADU 450 SQ. FT. STUDIO ADU
607.2 SEISMIC PROVISIONS WATER HEATERS SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION. STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE THIRD (1/3) AND LOWER ONE-THIRD (1/3) OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT, A MINIMUM DISTANCE OF FOUR(4) INCHES (102 MM) SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.	Project 23M-007 Date 10/02/23 Scale AS NOTED







DOC	DR SCHE	EDULE						
DOOR SYMBOL		DOOR SIZE		DOOR TYPE	CORE	MATERIAL	FRAME	NOTES:
	WIDTH	HEIGHT	THICK					
	3'-0"	6'-8"	I <b>-</b> 3/4"	SINGLE DOOR	SOLID	METAL/GLASS	WOOD	FRONT ENTRY DOOR W/GLAZING
2	3'-0"	6'-8"	1-3/4"	SINGLE DOOR	HOLLOW	WOOD	WOOD	INTERIOR DOORS
3	4'-4"	6'-8"	-3/4"	SLIDER	HOLLOW	WOOD	WOOD	BI PASS CLOSET DOORS
4	2'-0"	6'-8"	-3/4"	SINGLE DOOR	HOLLOW	WOOD	WOOD	

|/4" = |'-0"

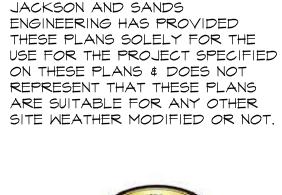
MINE	DOW SC	HEDULE							
WINDOW SYMBOL	WINDOW SIZE				FRAME	HEAD	U-FACTOR		NOTEC
	WIDTH	HEIGHT	OPER.	QNTY.		HEIGHT		SHGC	NOTES:
A	5'-0"	4'-0"	SLIDER	I	VINYL	6'-8"	0.3	.23	
В	3'-0"	3'-0"	SLIDER	I	VINYL	6'-8"	0.3	.23	
$\bigcirc$	4'-0"	3'-0"	SLIDER	I	VINYL	6'-8"	0.3	.23	EGRESS
D	4'-0"	<i>'-0</i> "	SLIDER	I	VINYL	6'-8"	0.3	.23	TEMPERED, OBSCURED
E	3'-0"	<i>'-0</i> "	SLIDER	I	VINYL	6'-8"	0.3	.23	TEMPERED, OBSCURED
F	2'-0"	2'-0"	SLIDER		VINYL	6'-8"	0.3	.23	

COEFFICIENT (SHGC) FROM WINDOWS AND DOORS. VERIFY TEMPORARY LABELS WITH CITY OF ORLAND BUILDING INSPECTOR.

\*DO NOT REMOVE LABELS INDICATING U-FACTORS AND SOLAR HEAT GAIN

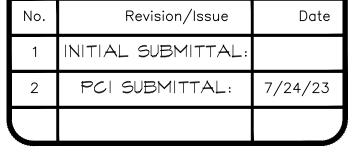
NOTES:

### General Notes







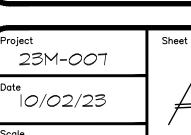






1

MIRROR



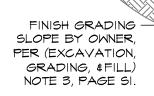
AS NOTED

I. ALL HEADERS TO BE 6X8 DF NO.I U.N.O. 2. PERFORATED SHEAR WALL (PERF) ARE DESIGNED PER 2021 SDPWS 4.3.2.3 STRAPS TO TRANSFER FORCES AROUND OPENINGS ARE NOT REQUIRED. 3. FULLY SHEATH EXTERIOR WALLS WITH MIN 3/8" OSB.

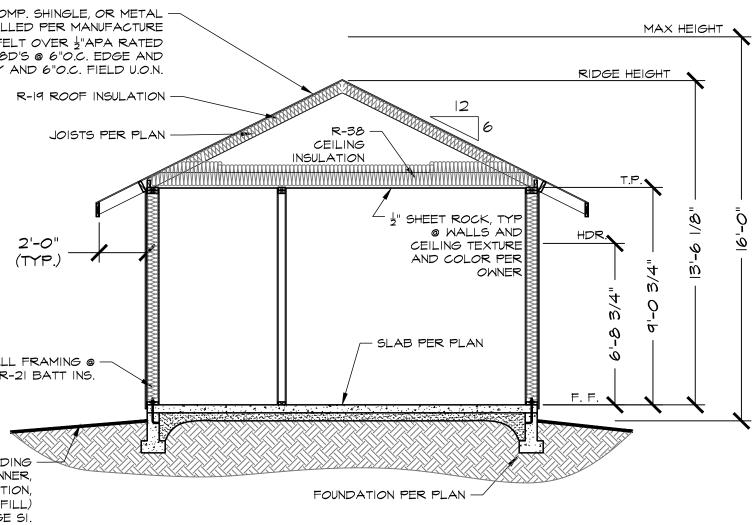
NAILED PER SHEAR WALL SCHEDULE. 4. SEE SHEET SI FOR ADDITIONAL SHEAR WALL AND CONSTRUCTION NOTES.

5. EXTERIOR WALLS TO BE 2X6 DF NO.2 @ 16" O.C. W/(3) COAT STUCCO. TYP FOR STUCCO EXTERIOR PLANS. 6. FIRE STOPPING AND DRFT STOPPING SHALL COMPLY WITH THE REQUIREMENTS. 2022 CRC R302.11 AND R302.1(1)

30 YR CLASS 'A' MIN. COMP. SHINGLE, OR METAL — SO TR CLASS A MIN. COMP. SHINGLE, OR METAL ROOF, INSTALLED PER MANUFACTURE INSTRUCTIONS, OVER #15 FELT OVER  $\frac{1}{2}$ "APA RATED SHEATHING NAILED WITH 8D'S @ 6"O.C. EDGE AND BOUNDARY AND 6"O.C. FIELD U.O.N.

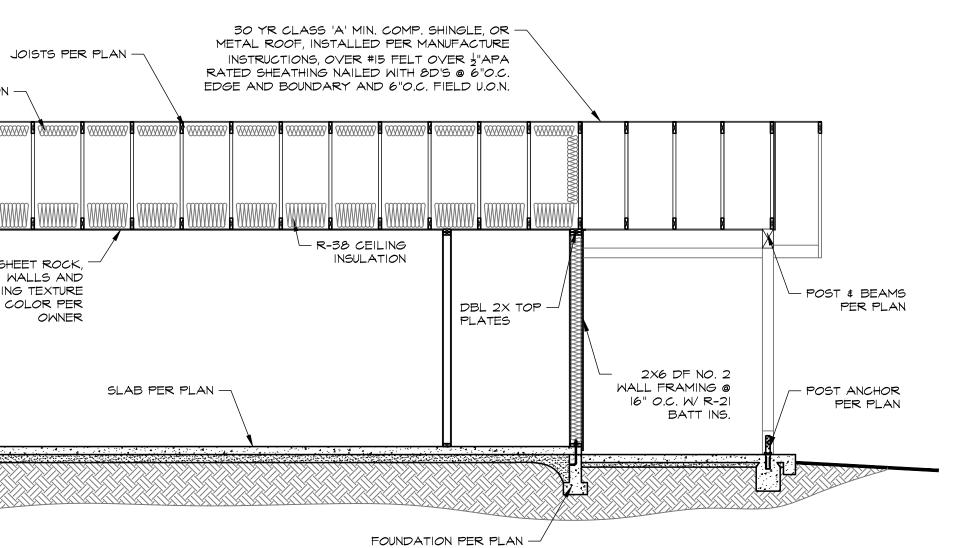


MAX HEIGHT R-19 ROOF INSULATION -T. P. AU A WWWWW A WWWWW A W ½" SHEET ROCK, <sup>-</sup> TYP @ WALLS AND CEILING TEXTURE AND COLOR PER OWNER HDR. m  $\mathbf{I}$ FINISH GRADING — SLOPE BY OWNER, PER للسلا (EXCAVATION, GRADING, &FILL) NOTE 3, PAGE SI.



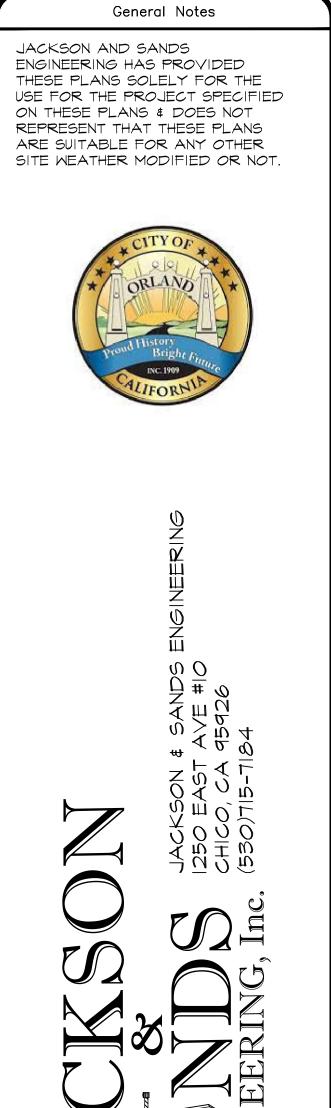
SECTION S-I

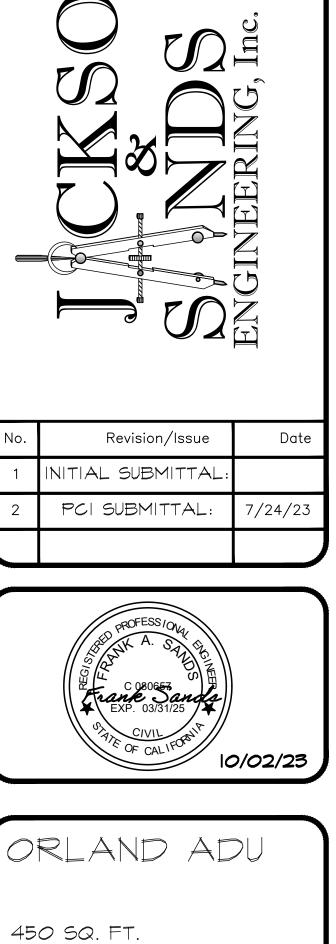
|/4" = |'-*O*"



SECTION S-2

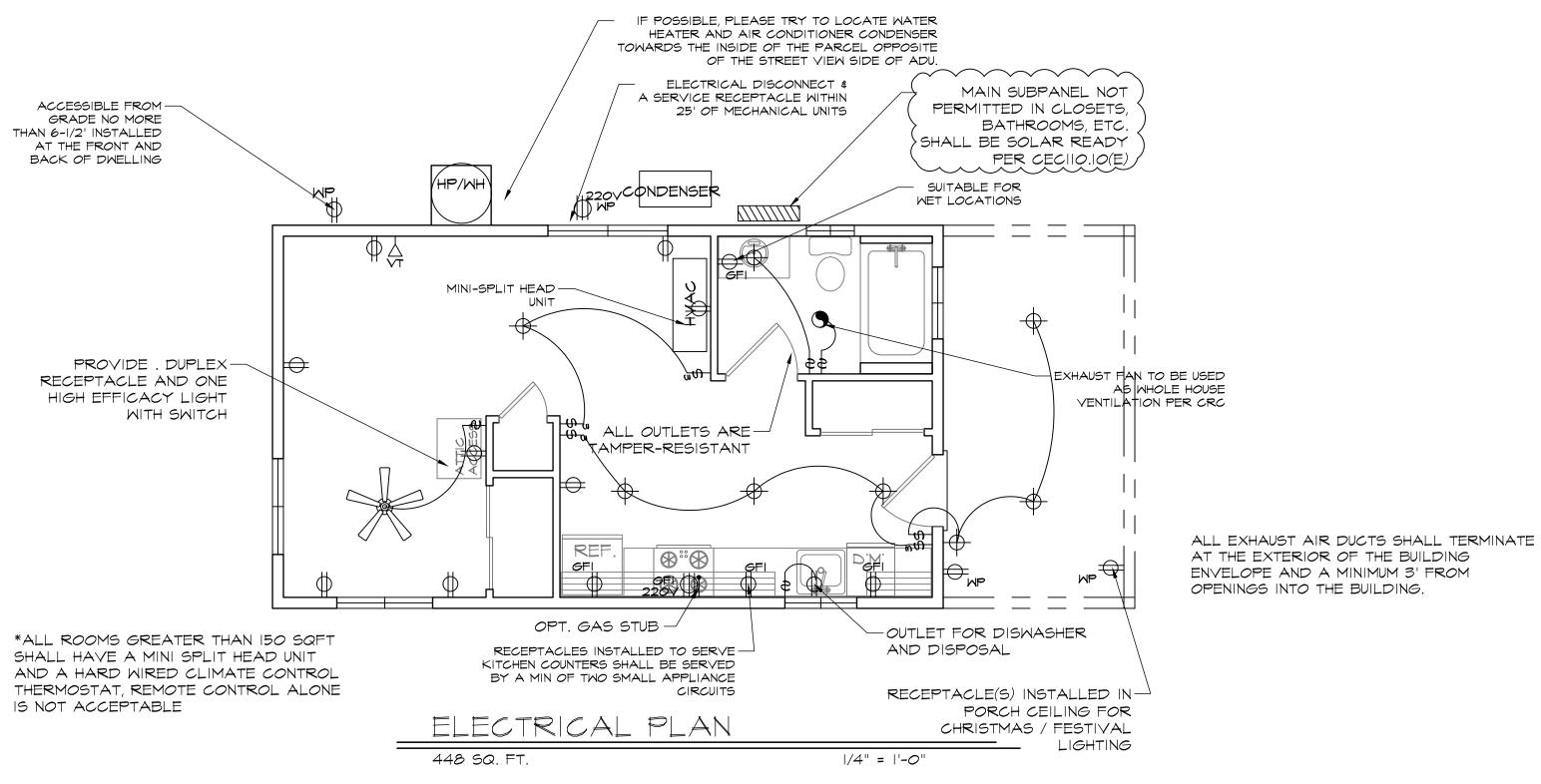
|/4" = |'-*0*"





STUDIO ADU Project Sheet 23M-007 Date  $\bigcirc$ 10/02/23 AS NOTED MIRROR

ELECTRICAL S	YMBOLS
DUPLEX RECEPTACLE	Ф
DUPLEX RECEPTACLE 72" A.F.F.	<b>⊕</b> +72
GROUND FAULT CIRCUIT, AS REQUIRED	¢ 6FI
DUPLEX RECEPTACLE 220 VOLT	<b>(</b> ) 220∨
DUPLEX RECEPTACLE, WATER-PROOF	¢ №P
CABLE TV	Ϋ́
HOSE BIB	нв†
SWITCH @ +42"	\$
SWITCH 3-WAY	l <sup>3</sup> €
CEILING LIGHT FIXTURES	<b></b>
SUBPANEL MIN. 225 AMP	[//////////////////////////////////////
EXHAUST FAN	Ð
SMOKE DETECTOR	9
COMBINATION SMOKE & CARBON MONOXIDE DETECTOR	(C) (C)
CEILING FAN	
HVAC CONDENSER	CONDENSER
HVAC HEAD UNIT	HVAC
GAS METER	
GAS OUTLET	•
HEAT PUMP WATER HEATER	



### ELECTRICAL NOTES

- THE PANEL BOARD(S) SHALL BE PROVIDED WITH A CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION. 2022 CEC ART. 408.3(F). EVERY CIRCUIT & CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, # SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE AN APPROVED DEGREE OF DETAIL THAT ALLOWS EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. SPARE POSITIONS THAT CONTAIN UNUSED OVER CURRENT DEVICES OR SWITCHES SHALL BE DESCRIBED ACCORDINGLY. THE IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OR INSIDE OF THE PANEL DOOR IN THE CASE OF A PANELBOARD & AT EACH SWITCH OR CIRCUIT BREAKER IN A SWITCHBOARD OR SWITCHGEAR. NO CIRCUIT SHALL BE DESCRIBED IN A MANNER THAT DEPENDS ON TRANSIENT CONDITIONS OF OCCUPANCY.
- 2. LISTED INSTALLATION INSTRUCTION OR MANUALS SHALL BE ON SITE & AVAILABLE FOR PLUMBING, MECHANICAL, ELECTRICAL EQUIPMENT OR OTHER INSTALLATIONS DURING FIELD INSPECTION OF SPECIFIC APPLIANCES OR FEATURES
- 3. PHOTOVOLTAIC GENERATING SYSTEMS IS REQUIRED BY CALIFORNIA ENERGY CODE SECTION 150.1(C)14. INSTALLATION OF SOLAR PANELS REQUIRED PRIOR CERTIFICATE OF OCCUPANCY CAN BE ISSUED FOR THIS ADU. A SEPARATE PERMIT IS REQUIRED.
- 4. AT LEAST ONE 120-VOLT, 20-AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY A BATHROOM OUTLET(S). SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS. (EXCEPTION-WHERE THE CIRCUIT SUPPLIES A SINGLE BATHROOM, OUTLETS FOR OTHER EQUIPMENT WITHIN THE SAME BATHROOM SHALL BE PERMITTED TO BE SUPPLIED.) CEC 210.11(C(1)) \$ 210.52 5. ALL 15-20 AMP KITCHEN RECEPTACLES THAT ARE DESIGNED TO SERVE COUNTERTOP SURFACES, DISHWASHERS, BATHROOMS, IN UNDER-FLOOR SPACES OR BELOW GRADE LEVEL, IN EXTERIOR OUTLET, WITHIN 6' OF A
- LAUNDRY/UTILITY/WET BAR SINKS, LAUNDRY AREAS SPECIFIED SHALL HAVE (GFCI) GROUND-FAULT
- CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. 2022 CEC Art. 210.3(A) 6. RECEPTACLES SHALL NOT BE INSTALLED WITHIN OR DIRECTLY OVER A BATHTUB OR SHOWER STALL. 2022 CEC Art. 406.9(C). LIGHT PENDANTS, CEILING FANS, LIGHTING TRACKS, ETC. SHALL NOT BE LOCATED WITHIN 3' HORIZONTALLY \$ 8' VERTICALLY ABOVE A SHOWER \$/OR BATHTUB THRESHOLD. 2022 CEC Art. 410.10(D)
- 7. FIXTURES, LAMP HOLDER & RECEPTACLES OUTLETS SHALL BE SECURELY SUPPORTED. A FIXTURE THAT WEIGHTS MORE THAN 6LBS OR EXCEEDS 16" IN ANY DIMENSION SHALL NOT BE SUPPORTED BY THE SCREW SHELL OF A LAMP HOLDER. 2022 CEC Art. 410.30(a) OUTLET BOXES SHALL NOT BE USED AS THE SOLE SUPPORT FOR CEILING (PADDLE) FANS. 2022 CEC Art. 314.27(A) \$(D)
- 8. OUTLETS IN KITCHEN MUST BE INSTALLED IN EVERY COUNTER SPACE 12" OR WIDER, NOT GREATER THAN 4' O.C. WITHIN 24" OF THE END OF ANY COUNTER SPACE & NOT HIGHER THAN 20" ABOVE COUNTER (CEC 210.52(C)) 9. TWO SMALL APPLIANCE 20-AMP BRANCH CIRCUITS ARE REQUIRED FOR THE KITCHEN & ARE LIMITED TO SUPPLYING
- WALL & COUNTER SPACE OUTLETS FOR THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, & SIMILAR AREAS. NOTE: THE CIRCUITS CANNOT SERVE OUTSIDE PLUGS, RANGE HOOD, DISPOSALS, DISHWASHER OR MICROWAVES -ONLY THE REQUIRED COUNTERTOP/WALL OUTLETS INCLUDING THE REFRIGERATOR. CEC 210.11(C(1)) \$ 210.52(B) IO. ALL 120V SINGLE PHASE 15-20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS (I.E. RECEPTACLES, LIGHTS, SMOKE
- DETECTORS, ETC) INSTALLED IN DWELLING UNIT KITCHEN, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED COMBINATION-TYPE ARC-FAULT CIRCUIT INTERRUPTER, INSTALLED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT, (CEC 210.12(A)) II. DEDICATED 20-AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLET(S). CEC
- 210.11(C)(2). (THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS) 12. GROUNDING & BONDING OF ELECTRICAL INSTALLATIONS SHALL COMPLY WITH CEC ART. 250
- 13. BOND ALL METAL GAS & WATER PIPES TO GROUND. ALL GROUND CLAMPS SHALL BE ACCESSIBLE & OF AN APPROVED TYPE. (CEC 250.104)
- 14. PACIFIC GAS & ELECTRIC (PG&E) COMPANY APPROVAL IS REQUIRED FOR ELECTRICAL METER LOCATION PRIOR TO INSTALLATION. PANEL LOCATION SUBJECT TO SITE SPECIFIC CONDITIONS & SERVING UTILITY APPROVAL WHERE THIS PLAN IS USED.
- 15. AFTER BUILDING PERMIT HAS BEEN ISSUED THE OWNER \$/OR CONTRACTOR SHALL APPLY FOR ELECTRICAL \$ UTILITY GAS SERVICE REQUEST TO PACIFIC GAS & ELECTRIC COMPANY. 16. ALL NON-LOCKING TYPE 125-VOLT 15-20AMP RECEPTACLES IN THE DWELLING SHALL BE TAMPER-RESISTANT. (CED
- Art. 406.12) 17. RECEPTACLES SHALL BE INSTALLED AT 12' O.C. MAX IN WALLS STARTING AT 6' MAX FROM THE WALL END. WALLS LONGER THAN 2' SHALL HAVE A RECEPTACLE. HALLWAY WALLS LONGER AN IO' SHALL HAVE A RECEPTACLE IN
- HALLWAY. (CEC Art. 210.52(A) 18. ELECTRICAL RECEPTACLES OUTLETS, SWITCHES & CONTROLS FOR OCCUPANTS USE SHALL BE NO MORE THAN 48" & NOT LESS THAN 15" ABOVE FINISH FLOOR (R327.1.2)
- 19. MAIN SERVICE PANEL TO BE SURGE PROTECTED

SMOKE DETECTORS & CARBON MONOXIDE DETECTORS

2022 CRC SEC. R314 & R315 CARBON-MONOXIDE ALARMS SHALL BE INSTALLED IN DWELLING UNITS WITH

FUEL-BURNING APPLIANCES OR WITH ATTACHED GARAGES (CRC R315) ARE TO BE INTERCONNECTED.

3. ALL DWELLING UNITS MUST HAVE SMOKE DETECTORS ON THE WALL OR CEILING OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF BEDROOMS & IN EACH ROOM USED FOR SLEEPING PURPOSES.

4. IN THE HALLWAY & IN THE ROOM OPEN TO THE HALLWAY WHERE THE CEILING HEIGHT OF ROOM OPENING TO HALLWAY SERVING BEDROOMS EXCEEDS THAT OF THE HALLWAY BY 24" OR MORE

5. ONE EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS. 6. CARBON MONOXIDE DETECTORS MAY BE COMBINATION SMOKE/CARBON MONOXIDE

DETECTORS. INTERCONNECTION. WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING OR SLEEPING UNIT, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.

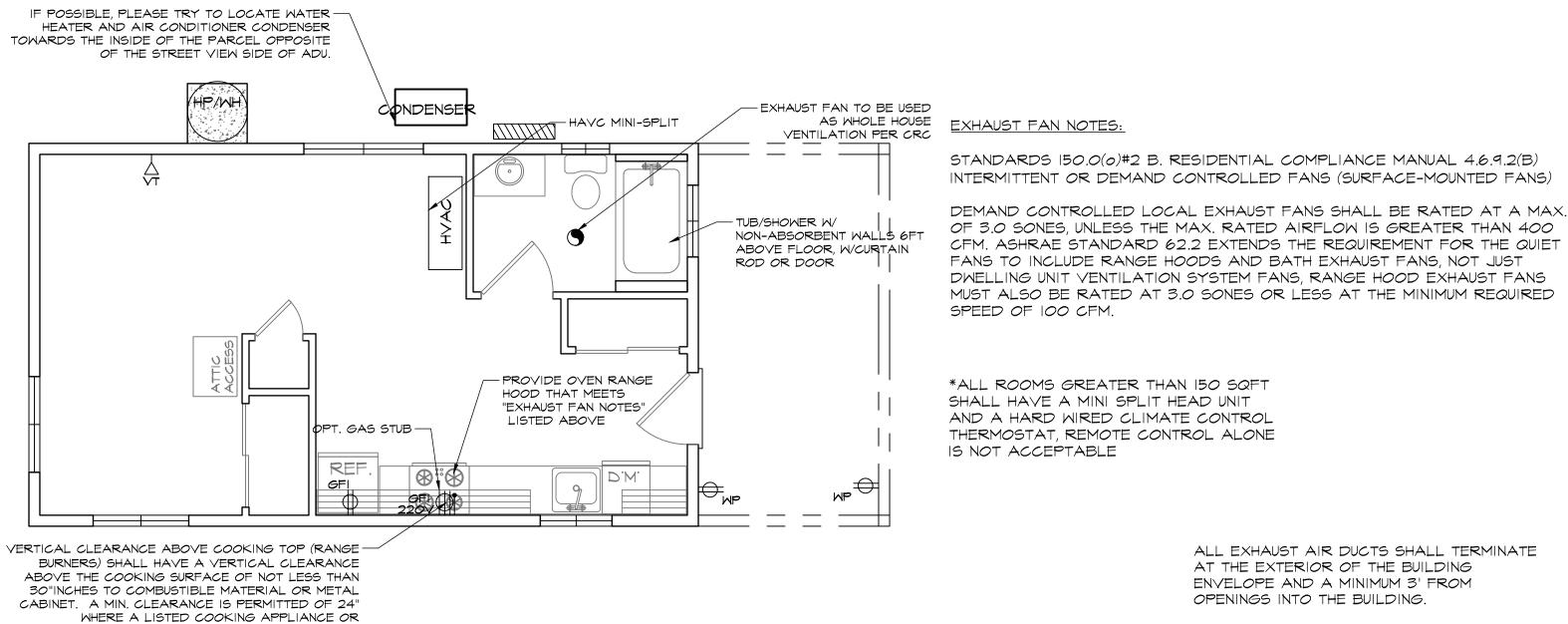
8. POWER SOURCE. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING PROVIDED THAT SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE & SHALL BE EQUIPPED WITH A BATTERY BACKUP. SMOKE ALARMS WITH INTEGRAL STROBES THAT ARE NOT EQUIPPED WITH BATTERY BACKUP SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM. SMOKE ALARMS SHALL EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. WIRING SHALL BE PERMANENT & WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION. 9. SMOKE ALARMS OR SMOKE DETECTORS SHALL BE INSTALLED A MIN OF 20' HORIZONTAL DISTANCE FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. EXCEPTION: IONIZATION SMOKE ALARMS WITH AN ALARM-SILENCING SWITCH OR PHOTOELECTRIC SMOKE ALARMS SHALL BE PERMITTED TO BE INSTALLED IO' OR GREATER FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. PHOTOELECTRIC SMOKE ALARMS SHALL BE PERMITTED TO BE INSTALLED GREATER THAN 6' FROM A PERMANENTLY INSTALLED COOKING APPLIANCE WHERE THE KITCHEN OR COOKING AREA & ADJACENT SPACES HAVE NO CLEAR INTERIOR PARTITIONS & THE IO' DISTANCES WOULD PROHIBIT THE PLACEMENT OF SMOKE ALARM OR SMOKE DETECTOR REQUIRED BY OTHER SECTIONS OF THE CODE. SMOKE ALARMS LISTED FOR USE IN CLOSE PROXIMITY TO A PERMANENTLY INSTALLED COOKING APPLIANCE. [R314.3.3] [NFPA72 SECTION 29.8.3.4]

LIGHTING NOTES

I. ALL LIGHTING TO BE HIGH EFFICACY.

- 2. LIGHTING IN HABITABLE SPACES, (LIVING ROOMS, DINING ROOMS, KITCHEN \$ BEDROOMS) SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED DIMMING CONTROLS 2. ALL SMOKE DETECTORS & CARBON MONOXIDE DETECTORS WITHIN THE DWELLING UNIT 3. FIXTURES, LAMP HOLDER & RECEPTACLES OUTLETS SHALL BE SECURELY SUPPORTED A FIXTURE THAT WEIGHS MORE THAN 6LBS OR EXCEEDS 16" IN ANY DIMENSION SHALL NOT BE SUPPORTED BY THE SCREW SHELL OF A LAMP HOLDER. CEC ART. 410.30(a). OUTLET BOXES SHALL NOT BE USED AS THE SOLE SUPPORT FOR CEILING (PADDLE) FAN. 2022 CEC ART. 314-27(A)&(D)
  - 4. ALL LIGHTING IN (BATHROOM, UTILITY ROOM, LAUNDRY ROOM, WALK IN CLOSETS \$ GARAGES) TO BE MANUAL ON, AUTOMATIC OFF, OCCUPANT SENSOR. (VACANCY SENSOR)
  - OUTDOOR LIGHTING ATTACHED TO THE BUILDING TO BE HIGH EFFICACY, CONTROLLED BY A MANUAL ON & OFF SWITCH & ONE OF THE FOLLOWING AUTOMATIC CONTROLS 5.1. PHOTO CONTROL & MOTION SENSOR.
  - 5.2. PHOTO CONTROL & AUTOMATIC TIME SWITCH CONTROOL 5.3. ASTRONOMICAL TIME CLOCK CONTROL THAT AUTOMATICALLY TURNS THE
  - OUTDOOR LIGHT OFF DURING DAYLIGHT HOURS. 5.4. EMCS THAT PROVIDES THE FUNCTIONALITY OF AN ASTRONOMICAL TIME CLOCK, DOES NOT HAVE AN OVERRIDE OR BYPASS SWITCH THAT ALLOWS THE LUMINARIES TO BE ALWAYS ON, \$ IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR LIGHTING OFF DURING DAYLIGHT HOURS.
  - 6. LUMINARIES RECESSED IN INSULATED CEILINGS MUST MEET FIVE REQUIREMENTS (CALIFORNIA ENERGY CODE 150.0(K)IC):
  - 6.1. THEY MUST BE RATED FOR DIRECT INSULATION CONTACT (IC).
  - 6.2. THEY MUST BE CERTIFIED AS AIRTIGHT (AT) CONSTRUCTION. 6.3. THEY MUST HAVE A SEALED GASKET OR CAULKING BETWEEN THE HOUSING \$ CEILING TO PREVENT FLOW OF HEATED OR COOLED AIR OUT OF LIVING AREAS \$
  - INTO THE CEILING CAVITY. 6.4. THEY MAY NOT CONTAIN A SCREW BASE SOCKETS
  - 6.5. THEY SHALL CONTAIN A JA8 COMPLIANT LIGHT SOURCE
  - OUTDOOR LIGHTING SHALL BE SUITABLE FOR WET LOCATIONS
  - 8. ALL HIGH EFFICACY LIGHT FIXTURES SHALL BE CERTIFIED AS "HIGH EFFICACY" LIGHT FIXTURES BY THE CALIFORNIA ENERGY COMMISSION. 9. CONTRACTOR SHALL PROVIDE THE HOMEOWNER WITH A LUMINAIRE SCHEDULE GIVING
  - THE LAMPS USED IN THE LUMINAIRES INSTALLED. (CGBSC 10-103(b)). IO. THE NUMBER OF BLANK ELECTRICAL BOXES MORE THAN 5' ABOVE FINISHED FLOOR
  - SHALL NOT BE GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR, OR FAN SPEED CONTROL (CEC 150(k)|B)

General Notes
JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT.
Provid History Provid History Bright Furgire NC: 1999
TOTAL COMPANY Source of the source of the so
No.     Revision/Issue     Date       1     INITIAL SUBMITTAL:
2 PCI SUBMITTAL: 7/24/23
ORLAND ADU
450 SQ. FT. STUDIO ADU
Project Sheet
Date 10/02/23
AS NOTED MIRROR



FIXTURE WATER FLOW RATE:

DEPTH TYPE WATER 12" SEWER 12"-27" GAS 12"-18" ELEC. 6"-18"

5. AIR GAP FITTING REQUIRED AT DISHWASHER

THE CRC, CBC, & THE CEC. (CPC 408.5)

(CPC 707.9)

PAINTS. (CPC 312.13)

TRENCH DEPTH:

PLUMBING

FIXTURE	G.P.F.
WATER CLOSET	1.28 GPF
KITCHEN FAUCET	1.8 GPF
LAVATORY FAUCET	I.2 GPF
SHOWERHEADS	2.0 GPF

10.	SHOWER COMPARTMENTS, REGARDLESS OF SHAPE, SHA
	ALSO BE CAPABLE OF ENCOMPASSING A 30" CIRCLE.
	HEIGHT EQUAL TO THE TOP OF THE THRESHOLD & SHAL
	SHOWER DRAIN OUTLET. (CPC 408.6) PROVIDE CURTAIN
	TUBS WITH SHOWERS REQUIRE A NON-ABSORBENT SURF
11	

.04" THICK WRAP OR OTHERWISE PROTECTED FROM UV DEGRADATION. (CPC 312.14)

AIN ROD OR DOOR A MIN OF 22" IN WIDTH (CPC 408.5). SHOWERS \$ SHOWER DRAIN OUTLET. (C TUBS WITH SHOWERS REQL FACE UP TO 6'ABOVE THE FLOOR. (CRC R307.2) II. WATER HEATERS: PROVIDE PRESSURE RELIEF VALVE WITH DRAIN TO OUTSIDE FOR WATER HEATER. (CPC 504.6) PROVIDE SEISMIC STRAPPING IN THE UPPER & LOWER THIRD OF THE WATER HEATER A MIN OF 4" ABOVE CONTROLS. (CPC 507.2) THE WATER HEATER SHALL BE OF AN INSTANTANEOUS TYPE OR THE FOLLOWING SHALL BE PROVIDED (NEW CONSTRUCTION

- ONLY) (CEC |5O(N)): II.I. A 120V RECEPTACLES PROVIDED WITHIN 3' • A CATEGORY III OR IV VENT, OR A STRAIGHT (WITHOUT BENDS) TYPE B
- VENT
- 11.2. CONDENSATE DRAIN THAT IS NO MORE THAN 2" HIGHER THAN THE BASE OF THE WATER HEATER 11.3. WATER HEATERS USING GAS OR PROPANE SHALL DESIGNATE A SPACE  $2\frac{1}{2}x2\frac{1}{2}$  \$ 7' TALL SUITABLE FOR FUTURE INSTALLATION OF HEAT PUMP WATER HEATER
- 11.4. GAS SUPPLY LINE WITH A MIN 200,000 BTU/HR DEDICATED CAPACITY FOR THE WATER HEATER 11.5. DOMESTIC HOT WATER LINES SHALL BE INSULATED. INSULATION SHALL BE THE THICKNESS OF THE PIPE DIAMETER UP
- TO 2" IN SIZE & MIN 2" THICKNESS FOR PIPES LARGER THAN 2" IN DIAMETER. (CPC 609.11) 11.6. A 3" GRAVITY DRAIN SHALL BE PROVIDED AT THE LOW POINT OF UNDERFLOOR SPACES, INSTALLED SO AS TO
- 15.3. FAN IN BATHROOMS CONTAINING TUB OR SHOWER MUST BE CONTROLLED BY A HUMIDISTAT & BE ENERGY STAR RATED. IF FAN PROVIDES CONTINUOUS VENTILATION BY THE ENERGY CODE IS EXEMPT PROVIDE  $\frac{1}{2}$ "/FOOT GRADE & TERMINATE AT AN EXTERIOR POINT OF THE BUILDING PROTECTED FROM BLOCKAGE. THE 16. CALIFORNIA ENERGY COMMISSION STANDARDS SECTION 150(K) REQUIREMENTS FOR INDOOR AIR QUALITY VENTILATION. OPENING SHALL BE SCREENED WITH A CORROSION-RESISTANT WIRE MESH WITH MESH OPENINGS OF  $\frac{1}{4}$ " IN DIMENSION. 16.1. BATHROOM EXHAUST FAN TO BE USED TO PROVIDE THE WHOLE BUILDING VENTILATION FAN & PROVIDE THE FOLLOWING: LENGTHS OF THE GRAVITY DRAINS OVER 10' IN LENGTH SHALL BE FIRST APPROVED BY THE BUILDING OFFICIAL. (L-V 16.1.1. THE BATHROOM EXHAUST FAN MUST HAVE A MIN CFM RATING OF 75-CFM. 89)
- 11.7. WATER HEATERS LOCATED IN ATTICS, CEILING ASSEMBLIES & RAISED FLOOR ASSEMBLIES SHALL SHOW A WATER-TIGHT CORROSION RESISTANT MIN 15" DEEP PAN UNDER THE WATER HEATER WITH A MIN 2" DRAIN TO THE EXTERIOR OF THE BUILDING. (CPC 507.5)
- II.8. WATER CLOSET SHALL BE LOCATED IN A SPACE NOT LESS THAN 30" IN WIDTH (15" ON EACH SIDE) & 24" MIN CLEARANCE IN FRONT. (CPC 402.5)
- 11.9. THE MAX HOT WATER TEMPERATURE DISCHARGING FROM A BATHTUB OR WHIRLPOOL BATH-TUB FILLER SHALL NOT EXCEED 120°F. (CPC 418)
- II.IO. PROVIDE ANTI-SIPHON VALVES ON ALL HOSE BIBS. (CPC 603.5.7)
- II.II. FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER. (CPC 1007)
- II.12. MAX WATER FLOW RATES. (CGBSC 4.303.1):
  - •WATER CLOSETS: 1.28-GPF
  - •URINALS: .125-GPF
  - KITCHEN FAUCETS: 1.8-GPM @ 60PSI
  - ·LAVATORY FAUCETS: 1.2-GPM @ 60PSI
  - SHOWERHEADS: 1.8-GPM

### MICROWAVE OVEN INSTALLED. 2022 CEC Art. 210.63 & CEC SEC. 304.4.4 MECHANICAL / PLUMBING PLAN

### 448 SQ. FT.

### I. UNDERFLOOR CLEANOUTS SHALL NOT BE MORE THAN 5' FROM AN UNDERFLOOR ACCESS, ACCESS DOOR OR TRAP DOOR.

### 2. EXTERIOR HOSE BIBS SHALL BE EQUIPPED WITH A NON-REMOVABLE BACK-FLOW PREVENTION. (CPC 603.5.7) 3. SHOWER & TUB COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE

THERMOSTATIC OF COMBINATION PRESSURE BALANCE THERMOSTATIC MIXING VALVE TYPE. (CPC 408.3) 4. KITCHEN SINKS REQUIRE A CLEANOUT ABOVE THE FLOOR LEVEL OF THE LOWEST FLOOR OF THE BUILDING.

### 6. WATER CLOSET SHALL BE POSITIONED TO HAVE A MIN 15" FROM ITS CENTER TO THE EDGE OF THE SINK & TO THE TUB. 7. ABS PIPING SHALL NOT BE EXPOSED TO DIRECT SUNLIGHT UNLESS PROTECTED BY WATER BASED SYNTHETIC LATEX

8. PVC PIPING SHALL NOT BE EXPOSED TO DIRECT SUNLIGHT UNLESS PROTECTED BY WATER BASED SYNTHETIC LATEX PAINT.

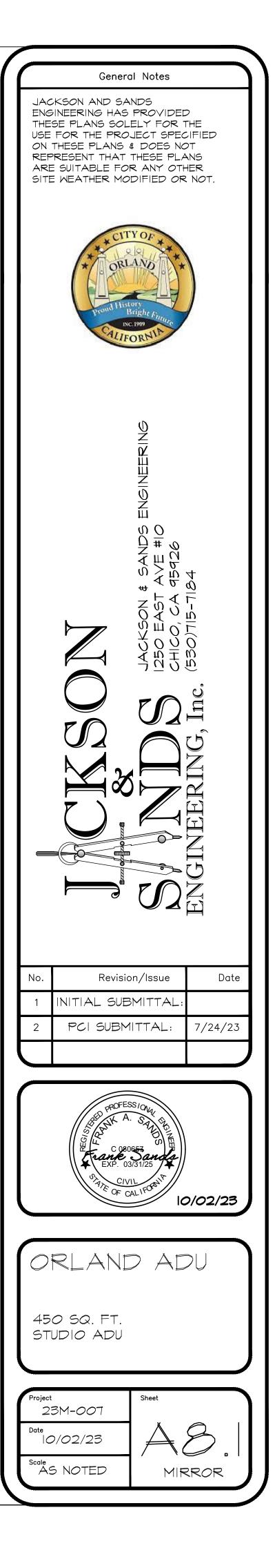
9. THE ADJACENT SPACE NEXT TO SHOWERS WITHOUT THRESHOLDS SHALL BE CONSIDERED A OWET LOCATION WHEN USING

- HALL HAVE A MIN FINISHED INTERIOR OF 1024IN<sup>2</sup> (32"x32") & SHALL . THE REQUIRED AREA & DIMENSIONS SHALL BE MEASURED AT A LL BE MAINTAINED TO A POINT OF NOT LESS THAN 70" ABOVE THE

|/4" = |'-0"

- MECHANICAL
- WOOD BURNING APPLIANCES SHALL BE ONE OF THE FOLLOWING:
- I.I. A PELLET-FUELED WOOD BURNING HEATER. 1.2. A U.S. EPA PHASE II CERTIFIED WOOD BURNING HEATER.
- 1.3. AN APPLIANCE OR FIREPLACE DETERMINED TO MEET THE U.S. EPA PARTICULATE MATTER EMISSION STANDARD OF LESS THAN 7.5 GRAMS/HOUR FOR A NON-CATALYTIC WOOD FIRED APPLIANCE OR 4.1 GRAMS/HOUR FOR A CATALYTIC WOOD FIRED APPLIANCE & IS APPROVED IN WRITING BY THE APCO.
- 2. ALL NEWLY INSTALLED GAS FIREPLACES SHALL BE DIRECT VENT & SEALED-COMBUSTION TYPE. (CMC 912.2) 3. ANY INSTALLED WOOD STOVE OR PELLET STOVE SHALL HAVE A PERMANENT NSPS LABEL CERTIFYING EMISSION LIMITS. 4. TOP CHIMNEY MUST EXTEND A MIN OF 2' ABOVE ANY PART OF THE BUILDING WITHIN 10' (CMC 802.5.4)
- 5. FIREPLACES SHALL HAVE CLOSABLE METAL OR GLASS DOORS, HAVE COMBUSTION AIR INTAKE DRAWN FROM THE OUTSIDE # HAVE A READILY ACCESSIBLE FLUE DAMPENER CONTROL. CONTINUOUS BURNING PILOT LIGHTS ARE PROHIBITED. (CEC. 150.0(E))
- 6. PROVIDE COMBUSTION AIR FOR ALL GAS FIRED APPLIANCES PER CMC CHAPTER 7. 7. GAS VENTS PASSING THROUGH AN INSULATED ASSEMBLY SHALL HAVE A METAL INSULATION SHIELD A MIN 2" ABOVE INSULATION. (509.6.2.7)
- 8. GAS WATER HEATER & FURNACE ARE NOT ALLOWED IN AREAS OPENING INTO BATHROOMS, CLOSETS OR BEDROOMS UNLESS INSTALLED IN A CLOSET EQUIPPED WITH A LISTED GASKETED DOOR ASSEMBLY & A LISTED SELF-CLOSING DEVICE WITH ALL COMBUSTION AIR OBTAINED FROM THE OUTDOORS. (CPC 504)
- 9. ROOF TOP EQUIPMENT ON ROOFS WITH OVER 4/12 SLOPE SHALL HAVE A LEVEL 30"x30" WORKING PLATFORM. (CMC 304.2) IO. EXHAUST OPENINGS TERMINATING TO THE OUTDOORS SHALL BE COVERED WITH A CORROSION RESISTANT SCREEN  $\frac{1}{4}$ "- $\frac{1}{5}$ " IN OPENING SIZE (NOT REQUIRED FOR CLOTHES DRYERS). (CMC 502.1)
- II. VENT DRYER TO OUTSIDE OF BUILDING (NOT TO UNDER-FLOOR AREA). VENT LENGTH SHALL BE 14' MAX SHALL TERMINATE A MIN OF 3' FROM THE PROPERTY LINE & ANY OPENING INTO THE BUILDING. (CMC 504.4.2) 12. ENVIRONMENTAL AIR DUCTS SHALL NOT TERMINATE LESS THAN 3'TO A PROPERTY LINE, 10' TO A FORCED AIR INLET, 3' TO
- OPENINGS INTO THE BUILDING & SHALL NOT DISCHARGE ON TO A PUBLIC WAY. (CMC 502.2.1) 13. PROVIDE MIN 1001N<sup>2</sup> MAKE-UP AIR FOR CLOTHES DRYERS INSTALLED IN CLOSETS. (CMC 504.4.1(1)) 14. HEATING SYSTEM IS REQUIRED TO MAINTAIN 68° AT 3' ABOVE FLOOR LEVEL \$ 2' FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS. (CRC R303.9)
- 15. BATHROOM FAN SHALL BE MIN VENTILATION RATE OF 50CFM FOR INTERMITTENT OR 25CFM FOR CONTINUOUS VENTILATION. 15.1. FAN SHALL BE 3 SONE OR LESS & INSTALLED PER MANUFACTURES SPECS. 15.2. MIN 4" DUCT SHALL VENT TO OUTSIDE & SHALL BE AIR TIGHT WITH CAULKING & GASKET.
  - 16.1.2. THE BATHROOM EXHAUST FAN IS RATED AT A MAX OF LO SONE.
  - 16.1.3. THE CONTROL SWITCH MUST BE LABELED AS THE WHOLE HOUSE VENTILATION & FAN SHOULD OPERATE WHENEVER THE HOME IS OCCUPIED

ALL EXHAUST AIR DUCTS SHALL TERMINATE AT THE EXTERIOR OF THE BUILDING ENVELOPE AND A MINIMUM 3' FROM OPENINGS INTO THE BUILDING.



- I. EXCAVATION NEAR FOUNDATION FOR ANY PURPOSE SHALL NOT REDUCE LATERAL SUPPORT FROM ANY FOUNDATION OR ADJACENT FOUNDATION WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST DETRIMENTAL LATERAL OR VERTICAL MOVEMENT OR BOTH.
- I.I. WHERE UNDERPINNING IS CHOSEN TO PROVIDE THE PROTECTION OR SUPPORT OF ADJACENT STRUCTURES, THE UNDERPINNING STEM WALL SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH PROVISIONS OF CURRENT CALIFORNIA BUILDING CODE.
- UNDERPINNING SHALL BE INSTALLED IN A SEQUENTIAL MANNER THAT PROTECTS THE 1.2. NEIGHBORING STRUCTURE AND THE WORKING CONSTRUCTION SITE. THE ENGINEER OF RECORD SHALL BE NOTIFIED IF THIS CONDITION EXISTS TO ALLOW FOR PREPARATION OF CONSTRUCTION DOCUMENTS.
- 2. PLACEMENT OF BACKFILL: THE EXCAVATION OUTSIDE THE FOUNDATION SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ORGANIC MATERIAL, CONSTRUCTION DEBRIS, ARE SPACED LESS THAN 4" ON CENTER, THEY SHALL BE STAGGERED COBBLES AND BOULDERS OR WITH CONTROLLED LOW-STRENGTH MATERIAL (CLSM). THE TENSION AND COMPRESSION CHORDS SHALL BE INSTALLED AT EACH END OF SHEAR BACKFILL SHALL BE PLACED IN LIFTS AND COMPACTED IN A MANNER THAT DOES NOT WALL DAMAGE THE FOUNDATION OR THE WATERPROOFING OR DAMPPROOFING MATERIAL. 4. FASTENERS: SHEATHING SHALL BE ATTACHED TO FRAMING MEMBERS USING NAILS OR 3. SITE GRADING: THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE OTHER APPROVED FASTENERS. NAILS SHALL BE DRIVEN WITH THE HEAD OF THE NAIL SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN 5% FOR A MINIMUM
- FLUSH WITH THE SURFACE OF THE SHEATHING. OTHER APPROVED FASTENERS SHALL BE DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE WALL. IF PHYSICAL DRIVEN AS REQUIRED FOR PROPER INSTALLATION OF THAT FASTENER. SEE TABLE FOR OBSTRUCTIONS OR LOT LINES PROHIBIT IO FEET AN APPROVED METHOD OF DRAINAGE NAIL DIMENSIONS. AWAY FROM STRUCTURE SHALL BE USED. SWALES USED FOR THIS PURPOSE SHALL BE 5. ANCHOR BOLTS: FOUNDATION ANCHOR BOLTS SHALL HAVE A STEEL PLATE WASHER SLOPED A MINIMUM OF 2% WHERE LOCATED WITHIN 10 FEET OF BUILDING FOUNDATION. UNDER EACH NUT NOT LESS THAT 0.229"X3"X3" IN SIZE. THE HOLE IN THE PLATE WASHER IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO BE LARGER A MIN. OF 2% AWAY FROM THE BUILDING. 2% SLOPES MAY BE USED WHEN APPROVED THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDED A BY THE ENGINEER OF RECORD. STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE
- 4. WHERE SHALLOW FOUNDATIONS WILL BEAR ON COMPACTED FILL MATERIAL, THE COMPACTED FILL SHALL COMPLY WITH THE APPROVED GEOTECHNICAL REPORT. 4.1. WHERE COMPACTED FILL MATERIAL 12 INCHES IN DEPTH OR LESS NEED NOT COMPLY WITH AN APPROVED REPORT, PROVIDED THE IN-PLACE DRY DENSITY IS NOT LESS THAN 90% OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM DI557. THE COMPACTION SHALL
- BE VERIFIED BY SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1705.6 DAMPPROOFING AND WATERPROOFING:
- AND FLOORS BELOW GRADE SHALL BE WATERPROOFED AND DAMPPROOFED IN 63 ACCORDANCE WITH THIS SECTION. VENTILATION FOR CRAWL SPACES SHALL COMPLY WITH CBC SECTION 1203.4 2. STORY ABOVE GRADE PLANE: WHERE A BASEMENT IS CONSIDERED A STORY ABOVE GRADE PLANE AND THE FINISHED GROUND LEVEL ADJACENT TO THE BASEMENT WALL IS NAIL SPACING SHALL BE 12" ON CENTER. BELOW THE BASEMENT FLOOR ELEVATION FOR 25% OR MORE OF THE PERIMETER, THE THE WIDTH OF THE NAILED FACE OF FRAMING MEMBERS AND BLOCKING SHALL BE 2" FLOOR AND WALLS SHALL BE DAMPPROOFED IN ACCORDANCE WITH THIS SECTION AND 6.4. NOMINAL OR GREATER. A FOUNDATION DRAIN SHALL BE INSTALLED.
- THE FINISHED GROUND LEVEL OF AN UNDER-FLOOR SPACE SUCH AS A CRAWL SPACE SHALL NOT BE LOCATED BELOW THE BOTTOM OF THE FOOTINGS. WHERE THERE IS EVIDENCE THAT THE GROUND WATER TABLE RISES TO WITHIN 6 INCHES OF THE GROUND LEVEL AT THE OUTSIDE BUILDING PERIMETER, OR THAT THE SURFACE WATER DOES NOT READILY DRAIN FROM THE BUILDING SITE, THE GROUND LEVEL OF THE UNDER-FLOOR SPACE SHALL BE AS HIGH AS THE OUTSIDE FINISHED GROUND LEVEL, UNLESS AN APPROVED DRAINAGE SYSTEM IS PROVIDED.
- 3.1. DAMPPROOFING MATERIALS FOR WALLS SHALL BE INSTALLED ON THE EXTERIOR SURFACE OF THE WALL, AND SHALL EXTEND FROM THE TOP OF THE FOOTING TO
- ABOVE GROUND LEVEL 3.2. DAMPPROOFING SHALL CONSIST OF A BITUMINOUS MATERIAL, 3 POUNDS PER SQUARE YARD OF ACRYLIC MODIFIED CEMENT,  $\frac{1}{2}$ " COAT OF SURFACE BONDING MORTAR COMPLYING WITH ASTM C887, ANY OF THE MATERIALS PERMITTED FOR WATERPROOFING BY SECTION 1805.3.2 OR OTHER APPROVED METHODS OR MATERIALS
- 4. WHERE GROUND WATER IS UNCOVERED BY INVESTIGATION OR EXCAVATIONS THE ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY FOR WATERPROOFING SOLUTIONS
- 5. A DRAIN SHALL BE PLACED AROUND THE PERIMETER OF A FOUNDATION THAT CONSIST WALL BOUNDARIES, PANEL EDGES, AND INTERMEDIATE SUPPORTS SHALL BE PER OF GRAVEL OR CRUSHED STONE CONTAINING NOT MORE THAN 10% MATERIAL THAT SHEAR WALL SCHEDULE. NAILS SHALL BE LOCATED AT LEAST & FROM THE EDGES PASSES THROUGH A NO. 4 SIEVE. THE DRAIN SHALL EXTEND A MINIMUM OF 12" BEYOND AND ENDS OF PANELS. THE WIDTH OF THE NAILED FACE OF FRAMING MEMBERS AND THE OUTSIDE EDGE OF THE FOOTING. THE THICKNESS SHALL BE SUCH THAT THE BOTTOM BLOCKING SHALL BE 2" NOMINAL OR GREATER. OF THE DRAIN IS NOT HIGHER THAN THE BOTTOM OF THE BASE UNDER THE FLOOR, AND 7.2. GYPSUM WALLBOARD SHALL BE APPLIED PARALLEL OR PERPENDICULAR TO STUDS. THE TOP OF THE DRAIN IS NOT LESS THAN 6" ABOVE THE TOP OF THE FOOTING. THE GYPSUM WALLBOARD SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN TOP OF THE DRAIN SHALL BE COVERED WITH AN APPROVED FILTER MEMBRANE ACCORDANCE WITH ASTM C 840. MATERIAL, WHERE A DRAIN TILE OR PERFORATED PIPE IS USED, THE INVERT OF THE 7.3. GYPSUM SHEATHING BOARD: 4' WIDE PIECES OF GYPSUM SHEATHING BOARD SHALL PIPE OR TILE SHALL NOT BE HIGHER THAN THE FLOOR ELEVATION. THE TOP OF JOINTS BE APPLIED PARALLEL OR PERPENDICULAR TO STUDS. 2' WIDE PIECES OF GYPSUM SHEATHING BOARD SHALL BE APPLIED PERPENDICULAR TO THE STUDS. GYPSUM OR THE TOP OF PERFORATIONS SHALL BE PROTECTED WITH AN APPROVED FILTER MEMBRANE MATERIAL SHEATHING BOARD SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C 1280.
- 6. THE FLOOR BASE AND FOUNDATION PERIMETER DRAIN SHALL DISCHARGE BY GRAVITY OR MECHANICAL MEANS INTO AN APPROVED DRAINAGE SYSTEM THAT COMPLIES WITH THE CPC. WHEN A SITE IS LOCATED IN A WELL-DRAINED GRAVEL OR SAND/ GRAVEL MIXTURE SOILS, A DEDICATED DRAINAGE SYSTEM IS NOT REQUIRED.
- RESIDENTIAL BUILDING CODE CRC. I. NO FILL OR OTHER SURCHARGE LOADS SHALL BE PLACED ADJACENT TO ANY BUILDING 2. IF CONDITIONS ARISE OUTSIDE THE SCOPE OF THESE PLANS, THE ENGINEER OF RECORD OR STRUCTURE UNLESS SUCH STRUCTURE IS CAPABLE OF WITHSTANDING THE SHALL BE NOTIFIED. ADDITIONAL LOADS CAUSED BY THE FILL OR SURCHARGE.
- 2. IF VIBRATORY LOADS ARE TO BE PRESENT DURING THE USE OF THE STRUCTURE, THE ENGINEER OF RECORD SHALL BE NOTIFIED TO DETERMINE IF ADDITIONAL CONSIDERATION IS REQUIRED TO PREVENT DETRIMENTAL DISTURBANCES OF THE SOIL.
- 3. IF EXPANSIVE SOILS ARE DISCOVERED THE ENGINEER OF RECORD SHALL BE NOTIFIED TO PROVIDE ADDITIONAL FOUNDATION DESIGN AND CONSTRUCTION REQUIREMENTS. 4. BUILDING CLEARANCE FROM ASCENDING SLOPES SHALL IN GENERAL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE
- DRAINAGE, EROSION AND SHALLOW FAILURES. 5. FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE SHALL BE FOUNDED IN FIRM MATERIAL WITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT
- DETRIMENTAL SETTLEMENT. 6. FOR FOUNDATIONS SUPPORTING GROUP R OR U OCCUPANCIES OF LIGHT-FRAME CONSTRUCTION, TWO STORIES OR LESS IN HEIGHT, ASSIGNED TO SEISMIC DESIGN
- CATEGORY D, E OR F SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 psi 7. CONCRETE FOUNDATIONS ARE PERMITTED TO BE CAST AGAINST THE EARTH WHERE SOIL CONDITIONS DO NOT REQUIRE FORMWORK 8. SHALLOW FOUNDATIONS SHALL BE BUILT ON UNDISTURBED SOIL, COMPACTED FILL
- WITH CBC SECTION 1804.5
- 9. THE TOP SURFACE OF FOOTINGS SHALL BE LEVEL. THE BOTTOM SURFACE OF FOOTINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT EXCEEDING 10%. FOOTINGS SHALL BE STEPPED WHERE IT IS NECESSARY TO CHANGE THE ELEVATION OF THE TOP SURFACE OF THE FOOTING OR WHERE THE SURFACE OF THE GROUND SLOPES MORE THAN 10%. IO. FOR SINGLE STORIES, THE MIN. DEPTH OF FOOTINGS SHALL BE 12" BELOW UNDISTURBED GROUND SURFACE. THE MIN. WIDTH OF FOOTING SHALL BE 12". FOR TWO STORIES, THE MIN DEPTH OF FOOTINGS SHALL BE 18" BELOW UNDISTURBED GROUND SURFACE AND THE MIN. WIDTH OF THE FOOTING SHALL BE 15".
- BONDED INTEGRALLY WITH THE EXTERIOR WALL FOOTINGS. 12. MIN. SLAB THICKNESS SHALL BE 4". A 10-MIL POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE BASE COURSE AND THE CONCRETE FLOOR SLAB. A VAPOR RETARDER IS NOT REQUIRED FOR DETACHED STRUCTURES ACCESSORY TO OCCUPANCIES IN GROUP R-3, SUCH AS GARAGES, UTILITY BUILDINGS OR OTHER UNHEATED FACILITIES.

### EXCAVATION, GRADING AND FILL:

I. WALLS OR PORTIONS THEREOF THAT RETAIN EARTH AND ENCLOSE INTERIOR SPACES

FOUNDATIONS:

- MATERIAL OR CLSM. COMPACTED FILL MATERIAL SHALL BE PLACED IN ACCORDANCE
- II. ALL LOAD BEARING WALLS SHALL BE PLACED ON CONTINUOUS CONCRETE FOOTINGS

- SHEAR WALL NOTES: (PER SDPWS-2021) FRAMING REQUIREMENTS: ALL FRAMING MEMBERS AND BLOCKING USED FOR SHEAR
- WALL CONSTRUCTION SHALL BE 2" NOMINAL OR GREATER. WHERE SHEAR WALLS ARE DESIGNED AS BLOCKED, ALL JOINTS IN SHEATHING SHALL OCCUR OVER AND BE FASTENED TO COMMON FRAMING MEMBERS OR COMMON BLOCKING. SHEAR WALL BOUNDARY ELEMENTS, SUCH AS END POSTS, SHALL BE PROVIDED TO TRANSMIT THE DESIGN TENSION AND COMPRESSION FORCES. SHEAR WALL SHEATHING SHALL NOT BE USED TO SPLICE BOUNDARY ELEMENTS. END POSTS (STUDS OR COLUMNS) SHALL BE FRAMED TO PROVIDE FULL END BEARING.
- COMMON FRAMING MEMBER: WHERE A COMMON FRAMING MEMBER IS REQUIRED AT ADJOINING PANEL EDGES, TWO FRAMING MEMBERS THAT ARE AT LEAST 2" NOMINAL THICKNESS SHALL BE PERMITTED PROVIDED THEY ARE FASTENED TOGETHER WITH FASTENERS DESIGNED IN ACCORDANCE WITH THE NDS TO TRANSFER THE INDUCED SHEAR BETWEEN MEMBERS. WHEN FASTENERS CONNECTING THE TWO FRAMING MEMBERS
- PLATE WASHER SHALL EXTEND TO WITHIN \$" OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING OR OTHER MATERIAL WITH NOMINAL UNIT SHEAR CAPACITY GREATER THAN 400 PLF FOR WIND OR SEISMIC (TYPE D AND E SHEAR WALLS) EXCEPTIONS MAY APPLY PER SECTION 4.3.6.4.3.
- WOOD STRUCTURAL PANEL SHEAR WALL CONSTRUCTION: PANELS SHALL NOT BE LESS THAN 4'X8', EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING. 6.1. ALL EDGES OF PANELS SHALL BE SUPPORTED BY AND FASTENED TO FRAMING
- MEMBERS OR BLOCKING. 6.2. NAILS SHALL BE LOCATED AT LEAST 💈 FROM THE PANEL EDGES. MAXIMUM NAIL
- SPACING AT PANEL EDGES SHALL BE 6" ON CENTER. NAILS ALONG INTERMEDIATE FRAMING MEMBERS SHALL BE THE SAME SIZE AS NAILS SPECIFIED FOR PANEL EDGE NAILING. AT INTERMEDIATE FRAMING MEMBERS, THE MAXIMUM NAILING SPACING SHALL BE 6" ON CENTER. WHERE PANELS ARE THICKER THAN 2" NOMINAL OR STUDS ARE SPACED LESS THAN 24" ON CENTER, THE MAXIMUM
- WHERE ANY OF THE FOLLOWING CONDITIONS OCCUR, THE WIDTH OF THE NAILED FACE 6.5. OF A COMMON FRAMING MEMBER OR BLOCKING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR GREATER AND NAILING SHALL BE STAGGERED AT ALL PANEL EDGES (IN LIEU OF A SINGLE COMMON FRAMING MEMBER, TWO FRAMING MEMBERS THAT ARE AT LEAST 2" IN NOMINAL THICKNESS SHALL BE PERMITTED)
- 6.5.1. NAIL SPACING OF 2" ON CENTER AT ADJOINING PANEL EDGES IS SPECIFIED (TYPE E SHEAR WALL), OR
- 6.5.2. IOD COMMON NAILS HAVING PENETRATION INTO FRAMING MEMBERS AND BLOCKING OF MORE THAN 1-1/2" ARE SPECIFIED AT 3" ON CENTER, OR LESS AT ADJOINING PANEL EDGES, OR
- THE NOMINAL UNIT SHEAR CAPACITY ON EITHER SIDE OF THE SHEAR WALL, TYPE 6.5.3. E, EXCEEDS 700 PLF IN SEISMIC DESIGN CATEGORY D, E, OR F. 6.6. MAXIMUM STUD SPACING SHALL BE 24" ON CENTER
- WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR ITS TYPE 6.7. 7. SHEAR WALL CONSTRUCTION WITH GYPSUM WALLBOARD OR GYPSUM SHEATHING BOARD SHALL MEET THE FOLLOWING REQUIREMENTS:
- 7.1. END JOINTS OF ADJACENT COURSES OF GYPSUM WALLBOARD OR SHEATHING SHALL NOT OCCUR OVER THE SAME STUD. THE SIZE AND SPACING OF FASTENERS AT SHEAR

### GENERAL NOTES:

- ALL CONSTRUCTION SHALL COMPLY WITH THE CURRENTLY ACCEPTED EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND CBC STANDARDS, AND CALIFORNIA
- ALL CONCRETE SHALL HAVE A MIN. STRENGTH OF 2,500 PSI (28 DAY) 4. REINFORCEMENT BAR SHALL BE GRADE 40 FOR BARS #4 AND SMALLER AND GRADE 60 FOR BARS #5 AND LARGER
- BOTTOM HORIZONTAL REINFORCING BAR PLACED IN THE FOOTING SHALL BE 3" CLEAR OF BOTTOM OF FOOTING. TOP HORIZONTAL REINFORCING BAR PLACED IN THE FOOTING SHALL BE 2" CLEAR OF THE TOP OF THE FOOTING
- 6. FOR FASTENING SCHEDULE, REFER TO TABLE 2304.10.2.

