BY USING THESE STANDARD PLANS, THE USER AGREES TO RELEASE THE COUNTY OF SAN DIEGO AGREES TO RELEASE THE COUNTY OF SAN DIEGO
FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS, AND
DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE,
OR LOSS TO PERSONS OR PROPERTY, INCLUDING
INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING
OUT OF THE USE OF THESE CONSTRUCTION
DOCUMENTS. THE USE OF THESE PLANS DOES NOT ELIMINATE OR REDUCE THE USER'S RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION.

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HYDROSEEDING (SUMMER) ~TSP~TSP~ THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES AND ASSOCIATED COUNTY OF SAN DIEGO AM			
SS-6 / SS-8 STRAW OR WOOD MULCH ~ S/W~ S/W~ • 2022 CALIFORNIA RESIDENTIAL CODE • 2022 CALIFORNIA BUILDING CODE			
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2022 CALIFORNIA ELECTRICAL CODE 2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA MECHANICAL CODE 2023 CALIFORNIA MECHANICAL CODE			
2022 CALIFORNIA PLUMBING CODE 2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA FIRE CODE			
SC-2 / PDS 659 SEDIMENT / DESILTING BASIN	Y STANDARDS		
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SC-6 SC-8 GRAVEL OR SAND BAGS CONVENTIONAL LIGHT FRAME CONSTRUCTION			
SC-7 STREET SWEEPING AND VACUUMING • ROOF LIVE LOAD: 20 PSF • ULTIMATE WIND SPEED: 110 MPH			
• EXPOSURE CATEGORY: C • SITE CLASS: D			
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TC-1 STABILIZED CONSTRUCTION ENTRANCE SEISMIC DESIGN CATEGORY: D ₂ ALLOW SOIL VERTICAL BEARING PRESSURE: 15			
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TC-3 ENTRANCE / EXIT TIRE WASH ENERGY EFFICIENCY SPECIAL FE	ATURES		
ASELINE BMPs FOR EXISTING AND PROPOSED SITE FEATURES SPECIFY AS INDICATED IN CF1R FORM (TITLE 24):			
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SD-C INSTALL GREEN ROOF			
SD-E INSTALL RAIN BARRELS			
SD-G CONSERVE NATURAL FEATURES			
PROVIDE BUFFERS AROUND WATER BODIES ENERGY EFFICIENCY HERS VERIF	ICATION		
SD-I CONSTRUCT SURFACES FROM PERMEABLE MATERIALS SD-K SUSTAINABLE LANDSCAPING SPECIFY AS INDICATED IN CF1R FORM (TITLE 24):			
ASELINE BMPs FOR POLLUTANT-GENERATING SOURCES SC-A OVERHEAD COVERING			
SC-E SEPARATION OF FLOWS FROM ADJACENT AREAS SC-C WIND PROTECTION			
SC-D SANITARY SEWER			
SC-E CONTAINMENT SYSTEM			
OTENTIAL RUNOFF POLLUTANTS: A TRASH & REFUSE STORAGE PROPERLY COMPLETED AND SIGNED CERTI	FICATES OF		
INSTALLATION (CF2R FORMS) SHALL BE PROVI	DED TO THE		
VERIFICATION, THE CF2R FORMS SHALL BE REGIS	TERED WITH		
CF2R FORMS ARE AVAILABLE AT			
CBEES 10-103)			
E MAINTENANCE & REPAIR PROPERLY COMPLETED CERTIFICATES OF VERIFIC FORMS) SHALL BE PROVIDED TO THE INSPECTOR			
F VEHICLE & EQUIPMENT CLEANING FOR ITEMS REQUIRING HERS VERIFICATION. (SHALL BE REGISTERED WITH A CALIFORNIA-APPI	CF3R FORMS		
G OTHER PROVIDER DATA REGISTRY." CF3R FORMS ARE AV HTTP://WWW.SDCOUNTY.CA.GOV/PDS/BLDG/ENERG	AILABLE AT		
(CBEES 10-103)			
PROVIDE <u>SOLAR PV SYSTEM</u> UNDER SEPARA SYSTEM <u>SIZE TO COMPLY</u> WITH ENERGY O	TE PERMIT.		
DOCUMENTATION CLIEFT T			



											(CBEES 10-10)	<u>3)</u>				
				ENG	GINEERING SCALE: 1	1" =					PROVIDE SC SYSTEM SIZ DOCUMENTA	DLAR PV SYS E TO COMPI ATION	TEM UNDER SEPARATE PERMIT. LY WITH ENERGY COMPLIANCE			
VICINITY MAP	OWNER INFORMATION	CONTACT INFORMATION	PROJECT INFORMATION	PERVIOL	IS AREA INFO	RMATION			IMPERVIOUS A	REA INFOR	RMATION		SHEET TITLE			
	NAME:	NAME:	PROJECT SCOPE: PROPOSED 1500 SF SINGLE FAMILY DWELLING	SITE ID PERVIOUS ITEM	DIMENSIONS	AREA (SF)	NOTES	SITE ID	IMPERVIOUS ITEM	DIMENSIONS	NEW or REPLACED AREA (SF)	EXISTING AREA (SF)	DI OT DI ANI			
	ADDRESS:	ADDRESS:	APN:	1				1	PROPOSED SFD ROOF AREA	53'-0" x 34'-0"	1802		PLOT PLAN			
			SITE ADDRESS:	2				2								
				3				3					SHEET NUMBER			
	PHONE:	PHONE:						<u> </u>				ļ				
			PROPERTY CONNECTED TO THE ELECTRICAL GRID:	PERVIOUS ELEMENT MAI	NUFACTURER:			4								
	FMAIL:		PROPERTY SERVICED BY: NATURAL GAS PROPANE (SHOW THE PROPANE TANK ON PLOT PLAN)	PERVIOUS ELEMENT SLOPE AND DIRECTION OF SLOPE: _		OF SLOPE:	OPE:		PE:		TOTAL (SF)		ļ.			CD 4
	ALL PROPOSED BUILDINGS, STRUCTURES, ADDITIONS, MODIFICATIONS TO BUILDINGS/STRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, AS SHOWN ON THE COUNTY APPROVED PLOT PLAN. AT THE DISCRETION OF THE COUNTY OF PROPERTY OWNER MAY BE REQUIRED TO PROVIDE PROOF OF CURRENT PLACEMENT OF EACH ON THE PARCEL. HIS MAY INCLUDE A STAMPED AND SIGNED SETBACK CERTIFICATE PREPARED BY A CALIFORNIA LICENSED SURVEYOR OR CIVIL ENGINEER. (COUNTY BUILDING CODE 91.1.107.2) MAINTENANCE PROGRAM: PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATION, PERVIOUS ELEMENT CROSS SECTION LOCATED OF CONSTRUCTURES MUST COMPLY WITH THE APPROVED LOCATED OF CONSTRUCTUR				LAND I	DISTURBANCE:	_SF			SP-1						
PDS ### (REV. 08/20/2025)								·		·	•	·				

WINDOW SCHEDULE							
MARK	DIMENSION	QTY	TYPE	TEMPERED	NOTES		
Α	5'-0" × 4'-0"	4	SLIDING				
В	3'-0" x 4'-0"	4	SINGLE HUNG				
С	4'-0" x 2'-0"	2	SLIDING	Y			
D	5'-0" x 3'-0"	1	SLIDING				

(c)

4'-0

(C)

EXTERIOR WINDOWS, EXTERIOR GLAZED DOORS, GLAZED OPENINGS WITHIN EXTERIOR DOORS, GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS, AND EXTERIOR STRUCTURAL GLASS VENEER SHALL COMPLY WITH ONE OF THE FOLLOWING: (SELECT ONE)

A. MULTI-PANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING, AND WHERE ANY GLAZING FRAMES MADE OF VINYL MATERIALS SHALL HAVE WELDED CORNERS, METAL REINFORCEMENT IN INTERLOCK AREA, AND BE CERTIFIED TO AAMA/WDMA/CSA 101/I/S.2/A410

METAL REINFORMANT INTERCOR AREA, AND BE CERTIFIED TO AAMA/WDMA/CSA 101/LS.2/A40 MINIMUM 20-MIN FIRE-RESISTANCE-RATED. MEET PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2

DOOR SCHEDULE DIMENSION QTY TYPE TEMPERE NOTES 3'-0" x 6'-8" SWINGING 2 2'-8" x 6'-8" SWINGING SWINGING SLIDING 4 6'-0" x 6'-8" 5 3'-0" x 6'-8" SWINGING POCKET 6 2'-8" x 6'-8" 7 5'-4" x 6'-8" DOUBLE POCKE WALK-IN CLOSET 8 6'-4" x 6'-8" CLOSET SLIDING SLIDING 9 8'-0" x 6'-8" 10 4'-6" x 6'-8" 1 BI-FOLD

(B)

-3'-0"

(B)

– 3'–0" -

WALL LEGEND

2x6 WALL

2x4 WALL

- EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING: (SELECT ONE)

 A. EXTERIOR SURFACE OR CLADDING OF NON-COMBUSTIBLE OR IGNITION-RESISTANT MATERIAL

 B. SOLID CORE WOOD COMPLYING WITH THE FOLLOWING:

 STILES AND RAILS MINIMUM 1-3/8 INCHES THICK

(A)

- RAISED PANELS MINIMUM 1-1/4 INCHES THICK

 EXCEPTION: EXTERIOR PERIMETER OF RAISED PANEL MAY TAPER TO
- A TONGUE MINIMUM ¾ INCHES THICK
 MINIMUM 20-MIN FIRE RATED WHEN TESTED PER NFPA 252
 MEET PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1

FLOOR PLAN NOTES

- EXTERIOR WALLS WITHIN 3 FEET OF PROPERTY LINE (WITH SPRINKLERS) OR 5 FEET OF PROPERTY LINE (WITHOUT SPRINKLERS) REQUIRE 1—HOUR FIRE RATING FOR EXPOSURE TO BOTH SIDES.

- PROJECTIONS:
 PROHIBITED WITHIN 2 FEET OF PROPERTY LINE
 1-HOUR FIRE RATING ON THE UNDERSIDE WITHIN 3FT OF PROPERTY LINE (WITH SPRINKLERS)
 1-HOUR FIRE RATING ON THE UNDERSIDE WITHIN 5FT OF
- 3. OPENINGS:

 PROHIBITED WITHIN 3FT OF PROPERTY LINE

 MAXIMUM 25% OF WALL AREA WITHIN 5 FEET OF PROPERTY LINE
- 4. PENETRATIONS:

 1-HOUR FIRE-RATED PENETRATIONS OF WALLS WITHIN 3FT OF PROPERTY LINE (WITH SPRINKLERS)

 1-HOUR FIRE-RATED PENETRATIONS OF WALLS WITHIN 5FT OF
- . Concrete landing with Min 36" depth and a maximum of 1-1/2" lower than top of door threshold

OPTIONAL ROLL-IN SHOWER PLAN NOTES

- 1. SHOWER COMPARTMENT SEAT
- MUST BE FOLDING TYPE, NOT TO EXCEED MORE THAN 6 INCHES FROM MOUNTING WALL WHEN FOLDED LOCATED WITHIN 27 INCHES OF SHOWER CONTROLS
- MOUNTED MINIMUM 17 INCHES AND MAXIMUM 19 INCHES ABOVE BATHROOM FINISHED FLOOR.
- SEAT INSTALLED ON SIDE WALL ADJACENT TO CONTROLS AND EXTENDING FROM BACK WALL TO POINT WITHIN 3 INCHES OF SHOWER COMPARTMENT
- STRUCTURAL ADEQUACY OF MOUNTING HARDWARE AND FASTENERS TO ACCOMMODATE 250 POUND POINT LOAD APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE
- MOUNTED MINIMUM 33 INCHES AND MAXIMUM 36 INCHES ABOVE SHOWER
- NOT EXTENDING OVER SHOWER SEAT
- IF CROSS SECTION IS CIRCULAR, MINIMUM 1- $\frac{1}{4}$ " AND MAXIMUM 2" OUTSIDE DIAMETER
- IF CROSS SECTION IS NON-CIRCULAR, MINIMUM 4" AND MAXIMUM 4.8" PERIMETER AND MAXIMUM 2-1/4" CROSS SECTION DIMENSION
- GRAB BARS MOUNTED ADJACENT TO A WALL, 1—1/2" ABSOLUTE SPACE BETWEEN WALL AND GRAB BAR

 MINIMUM 1—1/2" SPACE BETWEEN GRAB BAR AND PROJECTING OBJECTS BELOW AND AT ENDS
- MINIMUM 12 INCH SPACE BETWEEN GRAB BAR AND PROJECTING OBJECTS
- SURFACE MATERIAL OF ANY WALLS OR OBJECTS ADJACENT TO GRAB BARS MUST BE FREE OF SHARP OR ABRASIVE ELEMENTS AND HAVE ROUNDED
- EDGES. - STRUCTURAL ADEQUACY OF MOUNTING HARDWARE AND FASTENERS TO ACCOMMODATE 250 POUND POINT LOAD APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE
- WALL REINFORCEMENT TO BE PROVIDED AT LOCATION OF GRAB BARS (E.G.
- 3. OPERABLE PARTS OF SHOWER CONTROLS AND FAUCETS: - INSTALLED ON BACK WALL OF SHOWER COMPARTMENT ADJACENT TO SEAT
- LOCATED MINIMUM 19 INCHES AND MAXIMUM 27 INCHES FROM SEAT WALL
- LOCATED ABOVE GRAB BAR BUT NO HIGHER THAN 48 INCHES ABOVE SHOWER FLOOR - CENTERLINE AT MINIMUM 39 INCHES AND MAXIMUM 41 INCHES ABOVE SHOWER FLOOR
- Single-Lever design Operable with Maximum 5 pounds of force
- OPERABLE WITH ONE HAND AND WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST
- SPRAYER UNIT AND ASSOCIATED OPERABLE PARTS SHALL BE PROVIDED PER THE FOLLOWING:

 OFFERBLE PARTS, INCLUDING HANDLE, TO BE INSTALLED ON BACK WALL OF SHOWER COMPARTMENT MINIMUM 19 INCHES AND MAXIMUM 27 INCHES
- FROM SEAT WALL

 OPERABLE PARTS LOCATED ABOVE GRAB BAR BUT NO HIGHER THAN 48 INCHES ABOVE SHOWER FLOOR, MEASURED TO TOP OF MOUNTING
- MINIMUM 59 INCH LONG HOSE
- CAPABLE FOR USE AS FIXED SHOWER HEAD AND HAND HELD SHOWER
- ON/OFF CONTROL WITH NON-POSITIVE SHUT OFF
 ADJUSTABLE -HEIGHT SHOWER HEADS ON VERTICAL BAR SHALL NOT OBSTRUCT USE OF BATHTUB GRAB BARS
- WHERE SOAP DISHES ARE PROVIDED, MAXIMUM 40 INCHES ABOVE SHOWER FLOOR AND WITHIN REACH LIMITS FROM THE SHOWER SEAT
- MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS OF ROLL-IN SHOWER FLOORS
- MAXIMUM $\frac{1}{2}$ " HIGH THRESHOLDS WITH MAXIMUM 50% BEVELED SLOPE AT ROLL—IN SHOWERS
- WHERE DRAINS ARE PROVIDED AT ROLL—IN SHOWERS, MAXIMUM $\chi_4^{\prime\prime}$ Grate openings flush with shower floor surface

AGING-IN-PLACE AND FALL PREVENTION DESIGN

- REINFORCEMENT FOR GRAB BARS: AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT INSTALLED IN ACCORDANCE WITH SECTION R327.1.1 REINFORCEMENT SHALL BE MINIMUM 2X8 SOLD LUMBER, LOCATED BETWEEN 32 AND 39—1/4" ABOVE THE FINISHED FLOOR FLUSH WITH WALL FRAMING ON BOTH SIDE WALLS OF THE FIXTURE.
- ELECTRICAL OUTLETS, SWITCH, AND CONTROL HEIGHTS SHALL BE LOCATED NO MORE THAN 48" MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15" MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISHED FLOOR (SECTION R327.1.2). SHOW DIMENSION ON ELEVATION.
- DOORBELL BUTTONS SHALL NOT EXCEED 48° ABOVE EXTERIOR FLOOR OR LANDING. (SECTION R327.1.4). SHOW DIMENSION ON ELEVATION.
- INTERIOR DOORS: EFFECTIVE JULY 1, 2024, AT LEAST ONE BATHROOM AND ONE BEDROOM ON THE ENTRY LEVEL SHALL PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32 INCHES, MEASURED WITH THE DOOR POSTIONED AT AN ANGLE OF 90 DEGREES FROM THE CLOSE POSTION; OR, IN THE CASE OF A TWO- OR THREE-STORY SINGLE FAMILY DWELLING, ON THE SECOND OR THIRD FLOOR OF THE DWELLING IF A BATHROOM OR BEDROOM IS NOT LOCATED ON THE ENTRY LEVEL.

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Sheet Number

FLOOR PLAN 3/16" = 1'-0"

ELECTRICAL LEGEND HIGH EFFICACY RECESSED LIGHT G= DUPLEX OUTLET WALL SWITCH GARBAGE DISPOSAL Φ \$G.D GARBAGE DISPOSAL SWITCH VACANCY SENSOR 4" DIA DRYER VENT **S.D** SMOKE DETECTOR <u>@</u> CARBON MONOXIDE ALARM FAN & LIGHT COMBO FAN AND LIGHT COMBINATION \bigcirc HIGH EFFICACY LIGHT FIXTURE

ELECTRICAL PLAN NOT TO SCALE

GAS or PROPANE WATER HEATERS NOTES

SYSTEMS USING GAS OR PROPANE WATER HEATERS TO SERVE INDIVIDUAL DWELLING UNITS SHALL DESIGNATE A SPACE AT LEAST 2.5 FEET BY 2.5 FEET WID AND 7 FEET TALL SUITABLE FOR THE FUTURE INSTALLATION OF A HEAT PUMP WATER HEATER (HPWH) BY MEETING EITHER A OR B BELOW ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE:

- IF THE DESIGNATED SPACE IS WITHIN 3 FEET FROM THE WATER HEATER, THEN THIS SPACE SHALL INCLUDE THE FOLLOWING:

 a. A DEDICATED 125-VOLT, 20-AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRIC PANEL WITH A 120/240-VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS; AND BOOKED SHALL BE LABELED WITH THE WORD "SPARE" AND BE ELECTRICALLY ISOLATED; AND C. A RESERVED SINGLE POLE CIRCUIT BREAKER SPACE IN THE ELECTRICAL PANEL ADJACENT TO THE CIRCUIT BREAKER FOR THE BRANCH CIRCUIT IN A ABOVE AND LABELED WITH THE WORDS "FUTURE 240V USE".
- FUTURE 240V USE.

 d. A CONDENSATE DRAIN THAT IS NO MORE THAN 2 INCHES HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE.
- . IF THE DESIGNATED SPACE IS MORE THAN 3 FEET FROM THE WATER HEATER, THEN THIS SPACE SHALL INCLUDE THE FOLLOWING:

 d. A DEDICATED 240-VCUIT BRANCH CIRCUIT SHALL BE INSTALLED WITHIN 3 FEET FROM THE DESIGNATED SPACE. THE BRANCH CIRCUIT SHALL BE REPORTED AT 30 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS 240V READY; AND

 b. THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE HPWH INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS 'FOR FUTURE 240V USE'; AND
- FUTURE 240V USE': AND
- FUTURE 240V USE'; AND

 C. EITHER A DEDICATED COLD—WATER SUPPLY, OR THE COLD—WATER SUPPLY SHALL PASS THROUGH THE DESIGNATED HPWH LOCATION JUST BEFORE REACHING THE GAS OR PROPANE WATER HEATER; AND IN THE COMMINE OUT OF THE GAS OR PROPANE WATER HEATER SHALL BE ROUTED FIRST THROUGH THE DESIGNATED HPWH LOCATION BEFORE SERVING ANY FIXTURES; AND

 E. THE HOT AND COLD—WATER PIPING AT THE DESIGNATED HPWH LOCATION SHALL BE EXPOSED AND READILY ACCESSIBLE FOR FUTURE INSTALLATION OF AN HPWH; AND

 F. A CONDENSATE DRAIN THAT IS NO MORE THAN 2 INCHES HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE.

GAS or PROPANE FURNACE NOTES

SYSTEMS USING GAS OR PROPANE FURNACE TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING:

- A DEDICATED 240-VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE FURNACE AND ACCESSIBLE TO THE FURNACE WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 30 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS "240V REDLY." ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
- THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE
 TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT
 BREAKER FOR A FUTURE HEAT PUMP SPACE HEATER INSTALLATION.

 THE PROPERTY SPACE SHALL BE REPORTED AS A STALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS FOR FUTURE 240V USE.

GAS or PROPANE COOKTOPS NOTES

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

- A DEDICATED 240-VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE COOKTOP AND ACCESSIBLE TO THE COOKTOP WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 50 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS '240V READY.' ALL ELECTRICAL COMPONENTS SHALL INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
- THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE ELECTRIC COOKTOP INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS 'FOR FUTURE

GAS or PROPANE CLOTHES DRYERS NOTES

CLOTHES DRYER LOCATIONS WITH GAS OR PROPANE PLUMBING TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE THE FOLLOWING:

- A DEDICATED 240-VOLT BRANCH CIRCUIT WIRING SHALL BE INSTALLED WITHIN 3 FEET FROM THE CLOTHES DRYCE LOCATION AND ACCESSIBLE TO THE CLOTHES DRYCE LOCATION WITH NO OBSTRUCTIONS. THE BRANCH CIRCUIT CONDUCTORS SHALL BE RATED AT 30 AMPS MINIMUM. THE BLANK COVER SHALL BE IDENTIFIED AS '240V READY.' ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
- THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE ELECTRIC CLOTHES DRYER INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS 'FOR FUTURE 2400' LISS'

UTILITY PLAN NOTES

- SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R314.6
- CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD-WIRED WITH BATTERY BACK-UP PER CRC R315.5
- 4" Ø DRYER VENT WITH MAXIMUM 14 FOOT COMBINED HORIZONTAL AND VERTICAL LENGTH WITH TWO 90 DEGREE ELBOWS.
- A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE—BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION.
- AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT AS ADDITIED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 5 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME.
- LOCAL EXHAUST FANS TO EXTERIOR TO PROVIDE MINIMUM 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS VENTILATION.
- WATER HEATER OR FURNACE SHALL BE A DIRECT-VENT APPLIANCE
- . LISTED GASKETED SELF-CLOSING DOOR REQUIRED FOR GAS FAU

LIGHTING PLAN NOTES

- . ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEES TABLE 150.0-A
- 2. ALL LED LUMINAIRES AND LAMPS SHALL BE MARKED "JAB" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT: HTTPS://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX
- 3. ALL RECESSED DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "JAB-E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT: HTTPS://CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.ASPX
- RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS SHALL NOT BE SCREW-BASED
- BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR
- 5. ALL LUMINAIRES REQUIRING "JAB" OR "JAB-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR EXCEPTION: CLOSETS LESS THAN 70 S.F. & HALLWAYS
- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDINGS SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:

 PHOTOCONTROL AND MOTION SENSOR
 PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL
 ASTRONOMICAL TIME CLOCK
- ENERGY MANAGEMENT CONTROL SYSTEM PER CBEES 150.0(K)3AIIC

ENERGY STORAGE SYSTEMS (ESS) NOTES

- AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED:

 0. ESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED-UP CAPACITY OF 60 AMPS AND A MINIMUM OF FOUR ESS—SUPPLIED BRANCH CIRCUITS, OR

 1. A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD
- . A DEDICATED RACEWAY FROM THE MAIN SERVICE TO A PANELBOARD (SUBPANEL) THAT SUPPLIES THE BRANCH CIRCUITS IN SECTION 150.0(S)(2). ALL BRANCH CIRCUITS ARE PERMITTED TO BE SUPPLIED BY THE MAIN SERVICE PANEL PRIOR TO THE INSTALLATION OF AN ESS. THE TRADE SIZE OF THE RACEWAY SHALL BE NOT LESS THAN ONE INCH. THE PANELBOARD THAT SUPPLIES THE BRANCH CIRCUITS (SUBPANEL) MUST BE LABELED SUBPANEL SHALL INCLUDE ALL BROKED—ILP LOAD CIRCUITS. ALL BACKÈD-UP LOÁD CIRCUITS."
- A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY COLLOCATED AT A SINGLE PANELBOARD SUITABLE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT SHALL SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT SHALL BE LOCATED NEAR THE PRIMARY EGRESS, AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPING ROOM RECEPTACLE OUTLET.
- THE MAIN PANELBOARD SHALL HAVE A MINIMUM BUSBAR RATING OF
- SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF THE MAIN PANELBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELBOARD AND THE SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF DECRET PROMET SOURCE. EQUIPMENT/TRANSFER SWITCH OF BACKUP POWER SOURCE.

ILITIES, SUITS, AND DEMANDS ON AC. (ONS OR PROPERTY, INCLUDING INJUIT OF THE USE OF THESE CONSTRUCTS NOT ELIMINATE OR RFIVE TRAITON. 3 OUT OF DOES NO INFORMAT SSES, ARISING THESE PLANS D Y ANY AND ALL IN BY USING THESE STANDARD PLANS, THE SAN DIEGO FROM ANY AND ALL CLAIMS, LI, OF ANY INJURY, DAMAGE, OR LOSS TO PE DEATH, OR ECONOMIC LOSSES, ARISING DOCUMENTS. THE USE OF THESE PLANS I RESPONSIBILITY TO VERIFY ANY AND ALL IN Services

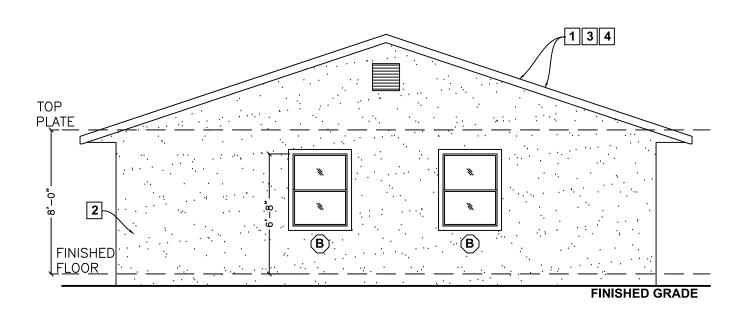
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Sheet Number

FRONT



BACK

ELEVATIONS

3/16" = 1'-0"

ELEVATION KEY NOTES

1.	ROOF: CLASS 'A' FIRE RATING
	ROOF MATERIAL:
	MANUFACTURER / MODEL:
	UNDERLAYMENT:
	LISTING REPORT #:
2.	EXTERIOR WALL FINISH: (SEE NOTE 7 BELO
3.	ROOF PITCH:
4.	RADIANT BARRIER IS REQUIRED YES NO

WILDFIRE ZONE PLAN NOTES

- IN ROOF COVERINGS WHERE THE PROFILE CREATES SPACE BETWEEN THE ROOF COVERING AND COMBUSTIBLE ROOF DECKING, SPECIFY ONE OF THE FOLLOWING MEANS OF PROTECTING SPACES AT EAVES ENDS: a. FIRE-STOPPING WITH APPROVED MATERIALS.

 b. ONE LAYER OF 72 POUND (32.4 KG) MINERAL—SURFACED NON—PERFORATED CAP SHEET COMPLYING WITH ASTM D 3909 INSTALLED OVER THE COMBUSTIBLE DECKING C. OTHERWISE CONSTRUCTED TO PREVENT INTRUSION OF FLAMES AND EMBERS.
- EXPOSED VALLEY FLASHINGS SHALL BE CONSTRUCTED WITH NOT LESS THAN 0.019-INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION-RESISTANT METAL INSTALLED OVER A MINIMUM 36-INCH-WIDE UNDERLAYMENT CONSISTING OF ONE LAYER OF NO. 72
- ASTM CAP SHEET RUNNING THE FULL LENGTH OF THE VALLEY. ANY ROOF GUTTERS SHALL BE PROVIDED WITH MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS.
- SKYLIGHTS SHALL BE TEMPERED GLASS.
- ALL VENTS (ROOF, FOUNDATION, COMBUSTION-AIR, ETC) SHALL RESIST THE INTRUSION OF FLAMES AND EMBERS
- . VENTILATION OPENINGS FOR ENCLOSED ATTICS, EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, UNDERFLOOR VENTILATION OPENINGS, AND VENT OPENINGS IN EXTERIOR WALLS AND EXTERIOR DOORS SHALL BE LISTED TO ASTM E 2886 AND COMPLY WITH ALL OF THE FOLLOWING:

 0. THERE SHALL BE NO FLAMING IGNITION OF THE COTTON MATERIAL DURING THE EMBER INTRUSION TEST

 1. THERE SHALL BE NO FLAMING IGNITION DURING THE INTEGRITY TEST PORTION OF THE FLAME INTRUSION TEST

 2. THE MAXIMUM TEMPERATURE OF THE UNEXPOSED SIDE OF THE VENT SHALL NOT EXCEED 662 DEGREES FAHRENHEIT (350 DEGREES CELSIUS)

 - EXTERIOR WALL FINISH SHALL COMPLY WITH ONE OF THE FOLLOWING:

 a. NON-COMBUSTIBLE MATERIAL (STUCCO, CEMENT FIBER BOARD, ETC)

 STUCCO AND CEMENT PLASTER USED AS AN EXTERIOR WALL COVERING SHALL BE 1/8-INCH THICK
 - NONCOMBUSTIBLE OR FIRE—RETARDANT—TREATED WOOD SHAKE USED AS AN EXTERIOR WALL COVERING SHALL HAVE AN UNDERLAYMENT OF MINIMUM 1/2—INCH FIRE—RATED GYPSUM SHEATHING THAT IS TIGHTLY BUTTED, OR TAPED AND MUDDED, OR AN UNDERLAYMENT OF OTHER IGNITION—RESISTANT MATERIAL APPROVED BY THE BUILDING OFFICIAL.
 - b. IGNITION—RESISTANT MATERIAL
- PATIO COVER, CARPORT AND TRELLIS CONSTRUCTION WITH ALL EXPOSED ELEMENTS SHALL COMPLY WITH ANY OF THE FOLLOWING:
- NON-COMBUSTIBLE MATERIAL
 1-HOUR FIRE-RESISTANT-RATED MATERIAL
- APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
 MODIFIED HEAVY TIMBER (MIN 2X TONGUE-AND-GROOVE SHEATHING, 4X6 RAFTERS/BEAMS, 6X6 POSTS)
- DECK, BALCONY, AND EXTERIOR STAIR CONSTRUCTION, WITH ALL EXPOSED ELEMENTS SHALL COMPLY WITH THE FOLLOWING: a. FRAMING (ANY OF THE FOLLOWING):
 - NON-COMBUSTIBLE MATERIAL
- 1-HOUR FIRE-RESISTANT-RATED MATERIAL APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
- MODIFIED HEAVY TIMBER (MIN 4X8 JOISTS, 4X10 OR 6X8 BEAMS,
- b. DECKING AND TREAD MATERIAL (ANY OF THE FOLLOWING):
- NON-COMBUSTIBLE MATERIAL
- NON-COMBOSTIBLE MATERIAL

 1-HOUR FIRE-RESISTANT-RATED MATERIAL

 APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD

 APPROVED ALTERNATIVE DECKING MATERIAL MEETING TESTS

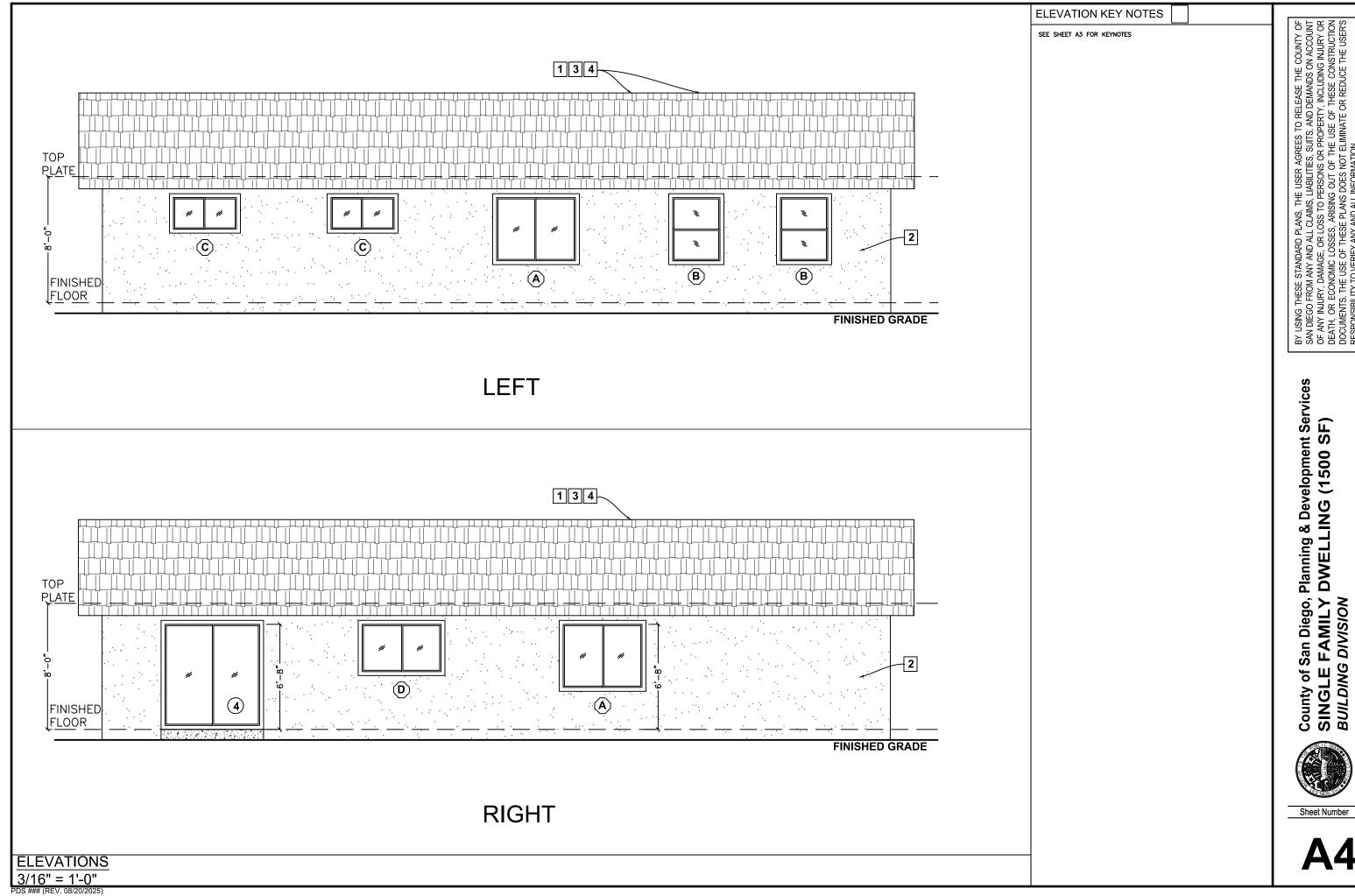
 REQUIREMENTS OF COUNTY BUILDING CODE 92.1.709A.1.4)
- O. EXTERIOR GARAGE DOORS SHALL RESIST THE INTRUSION OF EMBERS INTO THE GARAGE BY LIMITING THE SIZE OF ANY GAPS AT THE BOTTOM, SIDES, AND TOP OF THE DOOR TO 1/8 INCH OR LESS USING ONE OF THE FOLLOWING METHODS:
- a. WEATHER-STRIPPING PRODUCTS WITH TENSILE STRENGTH AND FLAMMABILITY RATING PER CBC 708A.4
- b. DOOR OVERLAPS ONTO JAMBS AND HEADERS
- c. GARAGE DOOR JAMBS AND HEADERS COVERED WITH METAL FLASHING
- I. PAPER—FACED INSULATION PROHIBITED IN ATTICS OR OTHER VENTILATED SPACES.
- FENCES OR ANY STRUCTURE WITHIN 5 FEET OF BUILDING SHALL BE CONSTRUCTED PER ONE OF THE FOLLOWING:
- a. NON-COMBUSTIBLE MATERIAL b. APPROVED EXTERIOR FIRE-RETARDANT TREATED WOOD
- c. MATERIAL MEETING SAME FIRE—RESISTIVE STANDARDS AS EXTERIOR WALLS OF BUILDINGS

TO RELEASE THE COUNTY OF S, AND DEMANDS ON ACCOUNT OPERTY, INCLUDING INJURY OR JSE OF THESE CONSTRUCTION WATER OF DEPARTS IN THE SECONSTRUCTION OF THE SEC 문 OF THE USE OF NOT ELIMINATE CAMATION. BY USING THESE STANDARD PLANS, THE USER AGREE SAN DIEGO FROM ANY AND ALL CLAIMS, LIABILITIES, SU OF ANY INJURY, DAMAGE, OR LOSS TO PERSONS OR P DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE DOCUMENTS, THE USE OF THESE PLANS DOES NOT EL RESPONSIBILITY TO VERIFY ANY AND ALL INFORMATION

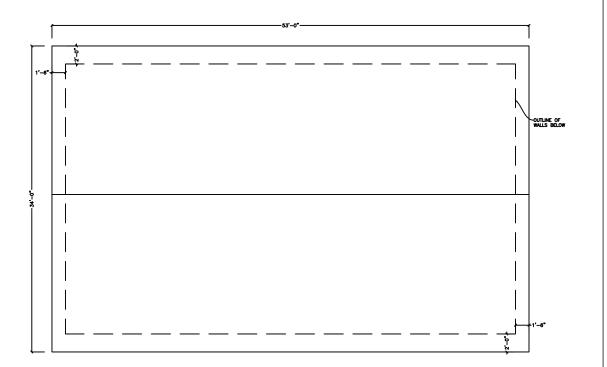
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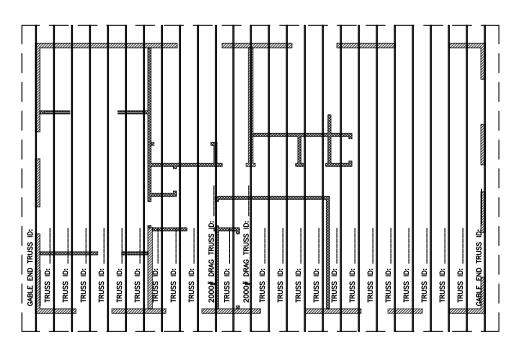


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ATTIC VENTILATION

ATTIC VENTILATION REQUIRED (SEE WILDFIRE NOTES 5 & 6 ON SHEET A3)

NET FREE CROSS VENTILATION AREA = $\frac{1}{300}$

Vent area required = 1500 ft²/ 300 = 5 ft² x 144 = $\frac{720 \text{ in}^2}{100 \text{ Area}}$ < $\frac{\text{in}^2}{100 \text{ Area}}$ recalled

1. GABLE VENT (MIN ONE VENT AT EACH GABLE END)

MANUFACTURER: VENT AREA PROVIDED = QTY x NFVA = ___

2. EAVE VENT

VENT AREA PROVIDED = $\underline{QTY} \times \underline{NFVA} =$

3. ROOF VENT

VENT AREA PROVIDED = QTY x NFVA = ___

4. INSTALL BETWEEN 40% AND 50% OF THE REQUIRED NET FREE VENT AREA A MAXIMUM OF 3 FEET BELOW THE RIDGE OR THE HIGHEST POINT OF THE SPACE (MEASURED VERTICALLY), AND INSTALL THE BALANCE OF THE REQUIRED VENTILATION IN THE BOTTOM ONE-THIRD

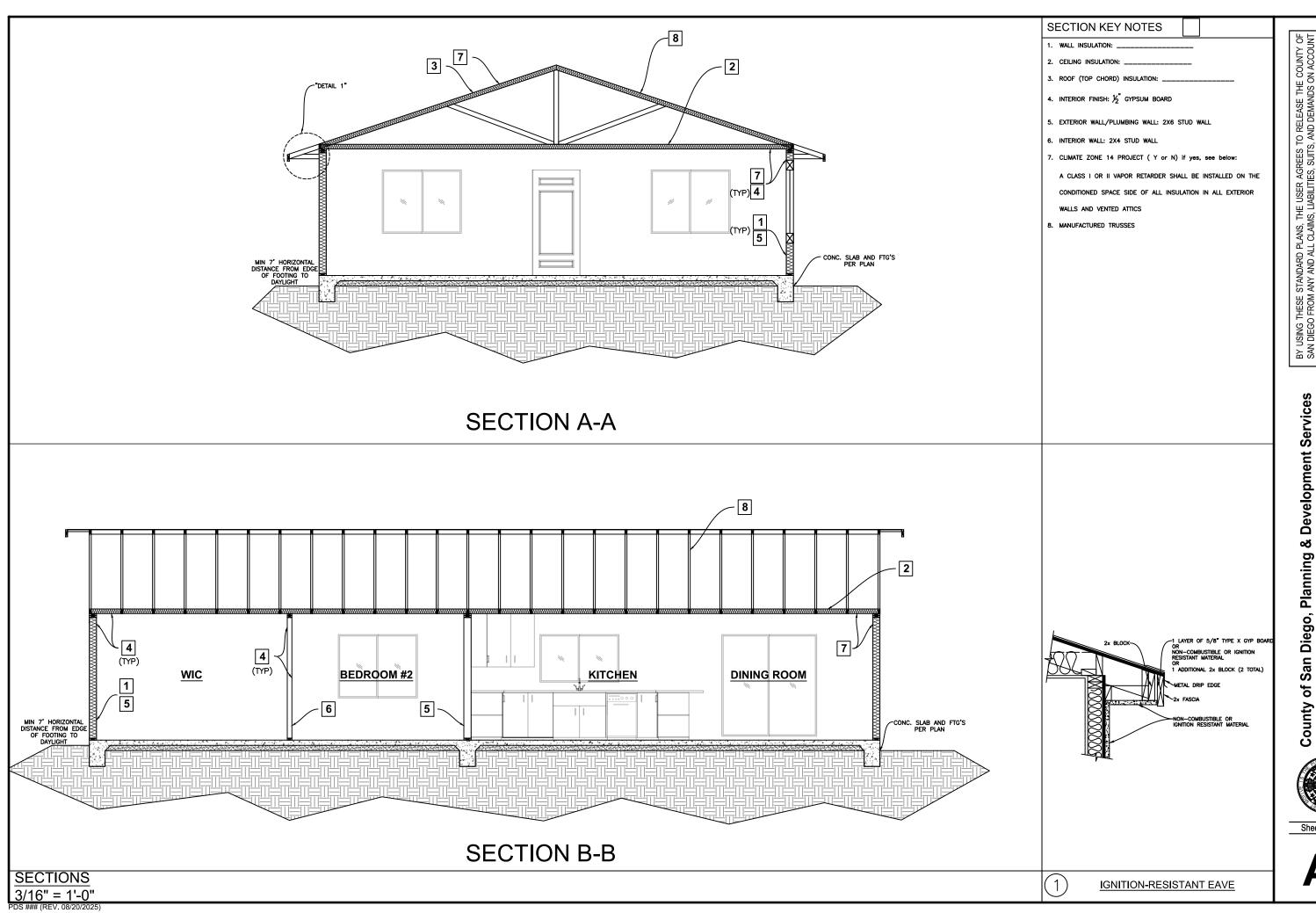
County of San Diego, Planning & Development Services SINGLE FAMILY DWELLING (1500 SF) BUILDING DIVISION

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Sheet Number

ROOF PLAN / TRUSS LAYOUT

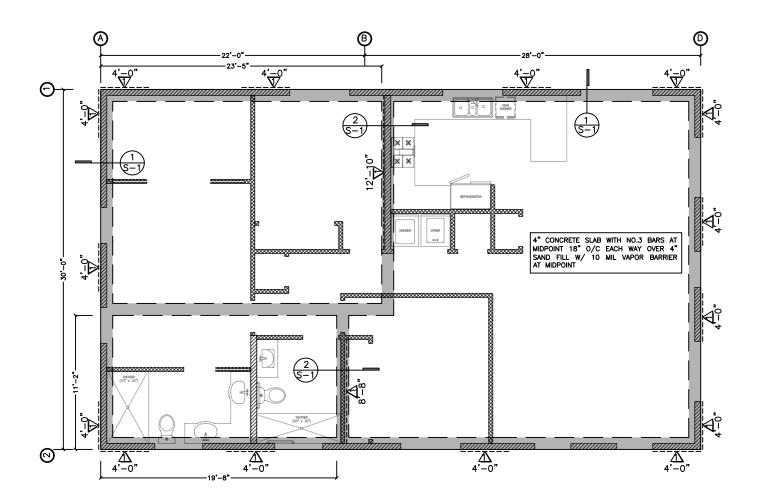
3/32" = 1'-0"



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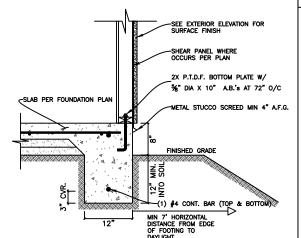


			WOOD STR	UCTURAL PAN	EL SHEATHING			
MARK	MINIM	UM NAIL	MINIMUM WOOD STRUCTURAL PANEL SPAN	MINIMUM NOMINAL PANEL THICKNESS	MAXIMUM WALL STUD SPACING (in)	PANEL NAIL SPACING		
	SIZE	PENETRATION (in)	RATING	(in)	2.22 3.7.0 ()	EDGES (inches O/C)	FIELD (inches O/C)	
A	6D COMMON	1.5	24:0	3/8"	16	6	12	
	8D COMMON	1.75	24:16	7/16"	16	6	12	

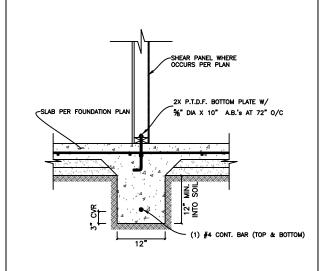
- WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS 1, DOC PS 2 OR ANSI/APA PRP 210, CSA 0437 OR CSA 0325. PANELS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY.
- VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER AND BE FASTENED TO COMMON STUDS.
- HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER AND BE FASTENED TO COMMON BLOCKING OF A MINIMUM 1 $\frac{1}{2}$ INCH THICKNESS.

FOUNDATION PLAN

1/8" = 1'-0"



1) EXTERIOR FOOTING



2 <u>INTERIOR FOOTING</u>

FOUNDATION PLAN NOTES

- ALL ANCHORS BOLTS SHALL BE 5%" DIAMETER AND HAVE A MINIMUM EMBEDMENT OF 7 INCHES INTO CONCRETE (UNO) AND NOT SPACED MORE THAN 6 FEET APART
- 2. 3"X3"X0.229" PLATE WASHERS SHALL BE USED ON EACH SILL PLATE ANCHOR BOLT
- FOR STANDARD CUT WASHERS PLACED BETWEEN PLATE WASHER AND NUT, HOLE IN PLATE WASHER MAY BE DIAGONALLY SLOTTED WITH MAXIMUM 4 6" LARGER WIDTH THAN BOLT DIAMETER AND MAXIMUM 1 4" SLOT LENGTH
- 4. PROVIDE A MINIMUM OF TWO ANCHOR BOLTS PER SILL PLATE WITH ONE BOLT LOCATED MAXIMUM 12" AND MINIMUM 7 BOLT DIAMETERS FROM EACH END OF EACH SECTION.
- . BOLTS LOCATED IN THE MIDDLE THIRD OF THE SILL PLATE WIDTH
- 5. FASTENERS FOR PRESSURE—PRESERVATIVE TREATED AND FIRE RETARDANT TREATED WOOD SHALL BE HOT—DIPPED ZINC COATED GALVANIZED, STAINLESS STEEL OR COPPER
- . NO LPG PIPING ASSEMBLIES ALLOWED IN OR BENEATH SLABS WITHIN THE STRUCTURE

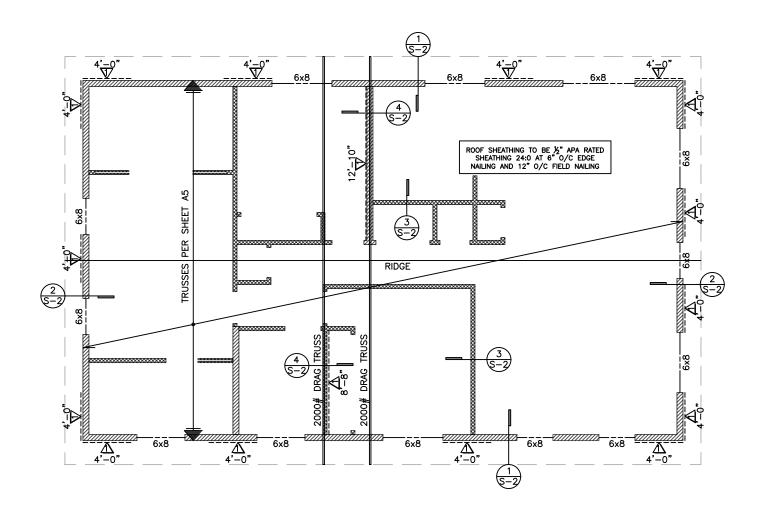
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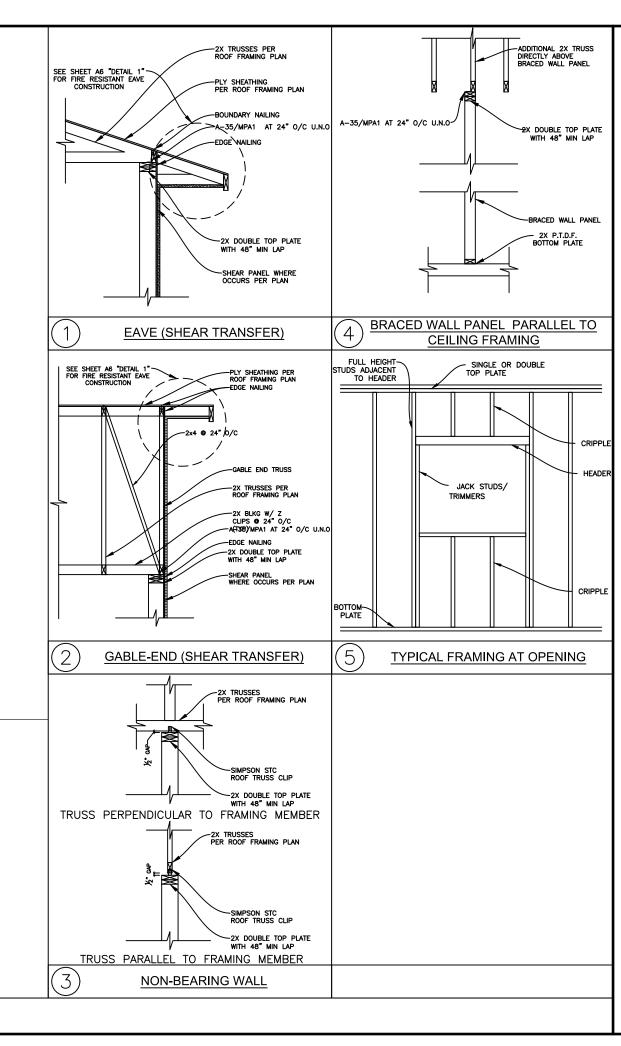
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S1



			WOOD STR	UCTURAL PAN	EL SHEATHING			
MARK	MINIM	UM NAIL	MINIMUM WOOD STRUCTURAL PANEL SPAN	MINIMUM NOMINAL PANEL THICKNESS (in)	MAXIMUM WALL STUD SPACING (in)	PANEL NAIL SPACING		
	SIZE	PENETRATION (in)	RATING		STOD SITIONIO (III)	EDGES (inches O/C)	FIELD (inches O/C)	
Λ	6D COMMON	1.5	24:0	3/8"	16	6	12	
	8D COMMON	1.75	24:16	7/16"	16	6	12	

- WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS 1, DOC PS 2 OR ANSI/APA PRP 210, CSA 0437 OR CSA 0325. PANELS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY.
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- HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER AND BE FASTENED TO COMMON BLOCKING OF A MINIMUM 1 $\frac{1}{2}$ INCH THICKNESS.



ROOF FRAMING PLAN

1/8" = 1'-0"

S2

Sheet Number

County of San Diego, Planning & Development Services SINGLE FAMILY DWELLING (1500 SF) BUILDING DIVISION

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- n Diego amendment. na Building Code (CBC) and/or California Residential Code (CRC)
- alifornia Green Building Standards Code (CalGree
- 2022 California Building Energy Efficiency Standards (CBEES)

. Electrical, Plumbing, and Mechanical

- Exterior lighting. All projects shall comply with the County of San Diego lighting ordinance.

 GFCI outlets. Ground Fault Circuit Interrupter (GFCI) outlets are required in bathrooms, at kitchen countertops, at laundry and wet bar sinks, in garages, in crawlspaces, in unfinished basements, and outloors (CEC 210.8)
- AFCI outlets. Electrical circuits in bedrooms, living rooms, dining rooms, dens, closets, hallways, or similar rooms must be protected by Arc Fault Circuit Interrupters (AFCI). (CEC
- Luminaire requirements. Installed luminaires shall meet the efficacy and fixture requirements
- Smoke detectors in building remodels. Smoke detectors are required in each existing
- Water heater seismic strapping. Minimum two 3/4-inch-by-24-gauge straps required arou water heaters, with 1/4-inch-by-3-inch lag bolls attached directly to framing. Straps shall be points within upper third and lower third of water heater vertical dimension. Lower connect shall occur minimum 4 inches above controls. (CPC 507.2)
- Gas appliances in garages. Water heaters and heating/cooling equipment capable of igniting flammable vapors shall be placed on minimum 18-inch-high platform unless listing report number provided showing ionition-resistant appliance. (CPC 507.13 and CMC 305.1)
- Impact protection of appliances. Water heaters and heating/cooling equipment subject vehicular impact shall be protected by bollards or an equivalent measure. (CPC 507.13.1
- Water closet clearance. Minimum 30-inch-wide by 24-inch-deep clearance required at front of water closets. (CPC 402.5)
- Shower size. Shower compartments shall have minimum area of 1024 square inches and be able to encompass a 30-inch-diameter circle. Shower doors shall have a minimum 22-inch unobstructed width. (CPC 408.5 and CPC 408.6)
- Fireplace appliances. Fireplaces with gas appliances are required to have the flue damper permanently fixed in the open position and fireplaces with LPG appliances are to have no 'pit' or 'sump' conflicurations. (CMC 303.7.1)

Mechanical Ventilation and Indoor Air Quality (ASHRAE 62.2-2010)

- Transfer air. Ventilation air shall be provided directly from the outdoors and not as transfer air from adjacent dwelling units or other spaces, such as garages, unconditioned crawlspaces, or unconditioned attics. (CBEES 150.0(o))
- Instructions and labeling. Ventilation system controls shall be labeled, and the homeowner shall be provided with instructions on how to operate the system. (CBEES 150.0(o))
- Combustion and solid-fuel burning appliances. Combustion appliances shall be properly vented and air systems shall be designed to prevent back drafting. (CBEES 150.0(o))
- Garages. The wall and openings between occupiable spaces and the garage shall be sealed. HVAC systems that include air handlers or return ducts located in garages shall have total air leakage of no more than 6% of total fan flow when measured at 0.1 in. w.c. using Califfornia Tile
- Minimum filtration. Mechanical systems supplying air to occupiable space through ductwork shall be provided with a filter having a minimum efficiency of MERV 6 or better. (CBEES Air inlets. Air inlets (not exhaust) shall be located away from known contaminants. (CBEES
- Air moving equipment. Air moving equipment used to meet either the whole-building ventilation requirement or the local ventilation exhaust requirement shall be rated in terms of airflow and sound (CREFS 150 (0.6)).
- All continuously operating fans shall be rated at a maximum of 1.0 sone b. Intermittently operated whole-building ventilation fans shall be rated at a maximum of 1.0 sone.
- ermittently operated local exhaust fans shall be rated at maximum of 3.0 sone.
- d. Remotely located air-moving equipment (mounted outside of habitable spaces) need not meet sound requirements if at least 4 feet of ductwork between fan and intake grill.

- Foundation reinforcement. Continuous footings and stem walls shall be provided with a minimum two longitudinal No. 4 bars, one at the top and one at the bottom of the footing. (CRC R403.1.3.1)
- Vapor retarder. A 10-mil polyethylene or approved vapor retarder with joints lapped minimum 6 inches shall be placed between a concrete slab-on-grade and the base course or subgrade.
- Anchor bolts and sills. Foundation plates or sills shall be bolted or anchored to the foundation or foundation wall per the following (CRC R403.1.6 and CRC R602.11.1):

 a. Minimum 1/2-inch-diameter steel bolts
- b. Bolts embedded at least 7 inches into concrete or masonry
- d. Minimum two bolts per plate/sill piece with one bolt located maximum 12 inches and minimum 7 bolt diameters from each end of each sill plate/piece e. Minimum 3-inch by 3-inch by 0.299-inch steel plate washer between sill and nut on each bolt
- Hold-downs. All hold-downs must be tied in place prior to foundation inspection.
- Protection of wood against decay. Naturally durable or preservative-treated wood shall be provided in the following locations (CRC R317.1):
- All wood in contact with ground, embedded in concrete in direct contact with ground, or embedded in concrete exposed to weather
- b. Wood joists within 18 inches and wood girders within 12 inches of the exposed ground in crawl spaces shall be of naturally durable or preservative-treated wood
- 2. Wood framing members that rest on concrete or masonry exterior foundation walls and are less than 8 inches from exposed earth shall be of naturally durable or preservative-treated wood d. Wood framing, sheathing, and siding on the exterior of the building and having clearance less than 6 inches from the exposed ground or less than 2 inches vertically from concrete steps, porch slabs, patio slabs, and similar horizontal surface exposed to weather
- . Ends of wood girders entering masonry or concrete walls with clearances less than 1/2 inch on tops, sides, and ends
- g. Wood structural members supporting moisture-permeable floors or roofs exposed to weather, such as concrete or masonry slabs, unless separated from such floors or roofs by an impervious
- h. Wood furring strips or other wood framing members attached directly to interior of exterior concrete or masonry walls below grade except where vapor retarder applied between wall and furring strips or framing members
- Underfloor ventilation. Underfloor areas shall have ventilation openings through foundation walls or exterior walls, with minimum net area of ventilation openings of 1 square foot for each 150 square feet of underfloor area. On such ventilating opening shall be within 3 feet of each corner of the building. (CRC R408.1) Underfloor access. Underfloor areas shall be provided with a minimum 18-inch by 24-inch
- access opening, (CRC R408.4)

- Fastener requirements. The number, size, and spacing of fasteners connecting wood members/elements shall not be less than that set forth in CRC Table R802.3(1). (CRC R502.9, CRC R602.3, and CRC R802.2)
- Stud size, height, and spacing. The size, height, and spacing of studs shall be in accordance with CRC Table R602.3(5). (CRC R602.3.1)

E. Wood Framing (Continued)

- Sill plate. Studs shall have full bearing on nominal 2-inch thick or larger sill plate with width at least equal to stud width. (CRC R602.3.4)
- Bearing studs. Where joists, trusses, or rafters are spaced more than 16 inches on center and the bearing studs below are spaced 24 inches on center, such members shall bear within 5 inches of the studs beneath. (CRC R602.3.3)
- Pulling and nothing of studs. Any stud in an exterior wall or bearing partition may be cut or notched to a depth not exceeding 25% of its width. Studs in nonbearing partitions may be notched to a depth not exceeded 19% of a single stud width. Any stud may be bored or drilled, provided the diameter of the resulting hole is no more than 50% of the stud width, the edge of the hole is no more than 50% inch to the edge of the skul, and the hole is no not located in the same ection as a cut or notch. Studs located in exterior wall or bearing partitions drilled over 40% nd up to 60% shall also be doubled with no more than two successive studs bored. (CRC
- Top plate. Wood stud walls shall be capped with a double top plate installed to provide overlapping at corners and at intersections with other partitions. End joints in double top plates shall be offset at least 24 inches. Joints in plates need not occur over studs. Plates shall be minimum nominal? Inches thick and have width at least equal to width of studs. (CRC R602.3.2)
- Top plate splices. Top plate lap splices shall be face-nailed with minimum 8 16d nails on each side of splice. (CRC R602.10.8.1)
- ing and notching of top plate. When piping or ductwork is placed in or partly in an exte Drilling and notching of top plate. When piping or ductwork is placed in or partly in an exterior wall or interior inde-breaing wall, necessitating cutting, drilling, or notching of the top plate by more than 50% of its width, a galvanized metal tie not less than 0.054-inch thick, and 1-12-inches wide shall be fastened across and to the plate at each side of the opening with not less than 8 104 nails having a minimum length of 1-1/2 inches at each side or equivalent. The metal tie must extend minimum 6 inches past the opening (CRC R602.6.1)
- or miss extent imminum or incress pass are opening. (ACK NOZE.0.1)

 Cripple walls. Foundation cripple walls shall be framed of studs not less in size than the studing above. Cripple walls more than 4 feet in height shall have studs sized as required for an additional story. Cripple wall shall will stud height less fam 14 inches shall be sheated on at additional story. Cripple wall shall be supported on continuous foundations. (CRR R026 and blocking. Cripple walls shall be supported on continuous foundations. (CRR R026 and blocking.
- Wall bracing. Buildings shall be braced in accordance with the methods allowed per CRC R602.10.2, CRC R602.10.4, and/or CRC R602.10.5.
- Braced wall line spacing. Spacing between braced wall lines shall not exceed 20 feet or alternate provisions of CRC R602.10.1.3
- Shear wall cumulative length. The cumulative length of shear walls within each braced wall line shall meet the provisions of CRC Table R602.10.3(1) for wind loads and CRC Table R602.10.3(1) for seismic loads. (CRC R602.10.1.1)
- Shear wall spacing. Shear walls shall be located not more than 25 feet on center. (CRC R602 10.2.2)
- Shear wall offset. Shear walls may be offset out-of-plan not more than 4 feet from the designated braced wall line and not more than 8 feet from any other offset wall considered part of the same braced wall line. (CRC R602.10.1.2)
- Shear wall location. Shear walls shall be located at the ends of each braced wall line or meet the alternate provisions of CRC R602.10.2.2.
- Individual shear wall length. Shear walls shall meet minimum length requirements of CRC R602.10.6.5.1.
- 17. Cripple wall bracing. Cripple walls shall be braced per CRC R602 10 11
- Shear wall and diaphragm nailing. All shear walls, roof diaphragms, and floor diaphragms shall be nailed to supporting construction per CRC Table R602.3(1). (CRC R604.3)
- nali De nailed to supporting construction per CRC Table R602.3(1). (CRC R604.3) thear wall joints. All vertical joints in shear wall sheathing shall occur over, and be fastened o, common studs. Horizontal joints in shear walls shall occur over, and be fastened to, minimum -1/2-inch-thick blocking. (CRC R602.10.10)
- Framing over openings. Headers, double joists, or trusses of adequate size to transfer loads to vertical members shall be provided over window and door openings in load-bearing walls and
- Lostes under bearing partitions. Joists under parallel bearing partitions shall be of adequate size to support the load. Double joists, sizes to adequately support the load, that are separated to support the partition of the load of
- Joist above or below shear walls. Where joists are perpendicular to a shear wall above o below, a rim joist, band joist, or blocking shall be provided along the entire length of the shea wall. Where joists are parallel to a shear wall above or below, a rim joist, end joist, or other parallel framing shall be provided directly above and/or below the shear wall. Where a parallel framing member cannot be located directly above and/or below the shear wall. Where a parallel framing member wall. (CRC Rodge shall be provided between the parallel framing members to each side of the shear wall. (CRC Rodge 10.8)
- Floor member bearing. The ends of each floor joist, beam, or girder shall have minimum 1-1/2 inches of bearing on wood or metal and minimum 3 inches of bearing on masonry or concrete except where supported on a 1-inch-by-4-inch thibon strip and nailed to the adjoining stud or by the use of approved joist hangers. (CRC R502.6)
- Floor joist lap. Floor joists framing opposite sides over a bearing support shall lap minimum 3 inches and shall be nailed together within minimum 3 10d face nails. A wood or metal splice with strength equal to or greater than that provided by the lap is permitted. (CRC R502.6.1)
- 25. Floor joist-to-girder support. Floor joists framing into the side of a wood girder shall be supported by approved framing anchors or on ledger strips minimum nominal 2 inches by 2 pported by approved thes. (CRC R502.6.2)
- Floor joist lateral restraint. Floor joists shall be supported laterally at ends and each intermediate support by minimum 2-inch full-depth blocking, by attachment to full-depth header, band joist, or rim joist, to an adjoining stud, or shall be otherwise provided with lateral support to prevent rotation. (CRC RS02.7)
- prevent rotation. (LPC. ROUL.!!)

 Floor joist bridging. Floor joists exceeding nominal 2 inches by 12 inches shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch strip nailed across the bottom of joists perpendicular to joists at maximum 8-foot intervals. (CRC 28. Framing of floor openings. Openings in floor framing shall be framed with a header and
- Framing of floor openings. Openings in floor training shall be trained with a header and trimmer plats. When the header joist span does not exceed a feet, the header joist may be a single member the same size as the floor joist. Single trimmer joists may be used to carry a single member the same size as the floor joist. Single trimmer joists may be used to the exceeded a feet, the trimmer joist canned header joist shall be doubled and of sufficient cross section to support the floor joists framing into the header. Approved hangers shall be used for the header-joist-to-firmmer-joist connections when the header joist span exceeds 6 feet. Tail joists over 12 feet long shall be supported at the header by framing anchors or on ledger strips minimum 2 inches by 2 inches. (ROR R502.10)
- minimum 2 inches by 2 inches. (VEX CROS. 10)

 6. Girders. Girders of single-story, construction or girders supporting loads from a single floor shal not be less than 4 inches by 6 inches for spans 6 feet or less, provided that girders are space not more than 8 feet on center. Other girders shall be designed to support file loads specified in the CBC. Girder end joints shall occur over supports. When a girder is spliced over a support an adequate the shall be provided. The ends of beams or girders supported on masonry or concrete shall not have less than 3 inches of bearing. (CBC 2308.7)
- Ridges, hips, and valleys. Rafters shall be framed to a ridge board or to each other with a valley rafters shall be supported at the ridge by a brace to a bearing partition or be designed and distribute the specific load at that point. Where the roof pitch is less than 3:12 slopr 5% gradient), structural members that support rafters and ceilings joists, such as ridges, hips d valleys, shall be designed as beams. (CRC R802.3)
- . Ceiling joist and rafter connections. Ceiling joists and rafters shall be nailed to each other per CRC Table R802.5.1(9), and the rafter shall be nailed to the wall top plate per CRC Table R602.3.1(1). Ceiling ioists shall be continuous or securely ioined per CRC Table R802.5.1(9) (802.3(1). Ceiling joists shall be continuous or securely joined per CRC Table R802.5.1(9) where they meet over interior partitions and are nailed to adjacent itariets to joined a continuous a cross the building when such joists are parallel to rafters. Where ceiling joists are not a refer less, or rafter less or rafter less shall be installed to provide a continuous less (Where ceiling joists are not or parallel to rafters, rafter less shall be installed to provide a continuous less (Where ceiling joists are of parallel to rafters, rafter less shall be installed to provide a continuous less (Where ceiling installed per CRC Table R802.5.1(9), or connections of equivalent capacities hall be provided. Where ceilings joists or rafter less are not provided, the ridge formed by these afters shall be supported by a wait or engineer-designed grider. (CRC R802.5)
- Ceiling joists lapped. Ends of ceiling joists shall be lapped minimum 3 inches or butted overbearing partitions or beams and toenailed to the bearing element. Where ceiling joists provide resistance to rafter thrust, lapped joists shall be nailed together per CRC Table R602.3(1) and butted joists shall be tied together in a manner to resist such thrust. (CRC R802.3)
- oular ties. Collar ties or ridge straps to resist wind uplift shall be connected in the fit he attic space. Collar ties shall be a minimum 1 inch by 4 inches nominal ar aximum 4 feet on center. (CRC R802.3.1)
- unifins. Purins installed to reduce the span of rafters shall be sized not less than the required ze of the rafters they support. Purins shall be continuous and shall be supported by 2-inch-y-4-inch nominal braces installed to bearing walls at a minimum 45-degree slope from torizontal. The braces shall be spaced maximum 4 feet on center with a maximum 8-foot raced length. (CRC R802.5.1) Roof/ceiling member bearing. The ends of each rafter or ceiling joist shall have not less than 1-1/2 inches of bearing on wood or metal and not less than 3 inches of bearing on masonry or concrete (FIGE SR02).
- officeiling member lateral support. Roof framing members and ceiling joists with a nominal h-to-thickness ratio exceeding 5:1 shall be provided with lateral support at points of bearing event rotation. (CRC R802.8)
- officetiling bridging. Rafters and ceiling joists with a nominal depth-to-thickness ratio ceeding 6.1 shall be supported laterally by solid blocking, diagonal bridging (wood or metal), a continuous 1-inch-by-5-inch wood strip nalled across the rafters or ceiling joists at maximum oot intervals. (CRC R802.8.1)

E. Wood Framing (Continued)

- 38. Framing of roof/ceiling openings. Openings in roof and ceiling framing shall be framed header and trimmer joists. When the header joist span does not exceed 4 feet, the header joist span does not exceed 4 feet, the header and trimmer joists. When the header joist span does not exceed 4 feet, the header joist any be a single member the same size as the celling joist or rafter. Single trimmer joist smap be used to carry a single header joist located within 3 feet of the trimmer joist bearing. When the header joist span exceeds 4 feet, the trimmer joists and header joist shall be doubled and o sufficient cross section to support the ceiling joists or rafters framing into the header. Approved hangers shall be used for the header-joist-to-trimmer-joist connections when the header joist span exceeds 6 feet. Tall joists over 12 feet long shall be supported at the header by framing anchors or on ledger strips minimum? Inches by 2 inches. (CRC ROSIO).
- Roof framing above shear walls. Rafters or roof trusses shall be connected to top plates of shear walls with blocking between the rafters or trusses. (CRC R602.10.8)
- 40. Roof diaphragm under fill framing. Roof plywood shall be continuous under California fill
- Roof diaphragm at ridges. Minimum 2-inch nominal blocking required for roof diaphragm nailing at ridges.
- 42. Blocking of roof trusses. Minimum 2-inch nominal blocking required between trusses at ridge lines and at points of bearing at exterior walls. Truss clearance. Minimum 1/2-inch clearance required between top plates of interior non-bearing partitions and bottom chords of trusses.
- Defiling, cutting, and notching of roof/floor framing. Notches in solid lumber joists, rafters, blocking, and beams shall not exceed one-sixth the member depth, shall be not longer than one-third the member depth, and shall not be located in the middle one-third of the span. Notches at member ends shall not exceed one-fourth the member depth. The tension side of members a member elmas shair not exceed ofer-ocurs in eminene regur. The reference spot in eminenes in further or the regular member ends. The finishes of preads in norminal thinkness shall not be note that exceed one-third the member ends. The shair of holes borred or out into members shall not be occeed one-third the member depth. dolose that no be closer than 2 (notes to the top or bottom of the member or to any other hole cocated in the member. Where the member is also notiched, the hole shall not be closer than 2 the control of the control of the control of the member is also notiched, the hole shall not be closer than 2 the control of the
- Exterior landings, decks, balconies, and stairs. Such elements shall be positively anchor to the primary structure to resist both vertical and lateral forces or shall be designed to be se supporting. Attachment shall not be accomplished by use of toenaits or naits subject withdrawal. (CRC R311.3)
- 46. Fireblocking, Fireblocking shall be provided in the following locations (CRC R302.11 and CRC a. In concealed spaces of stud walls and partitions, including furred spaces, and parallel rows of
- I. Vertically at the ceiling and floor levels
- Horizontally at intervals not exceeding 10 feet At all interconnections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings, and cove ceilings
- c. In concealed spaces between stair stringers at the top and bottom of the run At openings around vents, pipes, ducts, cables and wires at ceiling and floor level, with an
 approved material to resist the free passage of flame and products of combustion
- At chimneys and fireplaces per item E.49
- f. Cornices of a two-family dwelling at the line of dwelling-unit separation
- Fireblocking materials. Except as otherwise specified in items E.48 and E.49, fireblocking shall
 consist of the following materials with the integrity maintained (CRC R302.11.1):
- c. One thickness of 23/32-inch wood structural panel with joints backed by 23/32-inch wood
- d. One thickness of 3/4-inch particleboard with joints backed by 3/4-inch particleboard
- f. 1/4-inch cement-based millboard 1. 1/4-inc cement-caseo millicours Q. Batts or blankes of mineral or glass fiber of other approved materials installed in such an as to be securely retained in place. Batts or blankets of mineral or glass fiber or other ap non-rigit materials shall be permitted for compliance with the 10-foot horizontal frebloc walls constructed using parallel rows of studs or staggered studs. Unfaced fiberglas insulation used as freblocking shall fill the entire cross-section of the wall cavity to an height of 16 inches measured vertically. When piping, conduit, or similar obstruction encountered, the insulation shall be packed fighty around the obstruction. Loss-ell films. material shall not be used as a fireblock unless specifically tested in the form and manner intended for use to demonstrate its ability to remain in place and to retard the spread of fire and hot gases.
- Fireblocking at openings around vents, pipes, ducts, cables, and wires at ceiling and floor level. Such openings shall be fireblocked with an approved material to resist the free passage of flame and products of combustion. (CRC R302.11)
- 9. Fireblocking of chimneys and fireplaces. All spaces between chimneys and floors and ceilings through which chimneys pass shall be fireblocked with noncombustible material securely statement in place. The freblocking of spaces between chimneys and wood joists, beams, or headers shall be self-supporting or be placed on stips of metal or metal lath laid across the spaces between combustible material and the chimney. (CRC R1003.19)
- Draftstopping. In combustible construction where there is usable space both above and below the concealed space of a flooricelling assembly, draftstops shall be installed so that the area of concealed space of a flooricelling assembly, draftstops shall be installed so that the area of concealed space into approximately equal areas. Where the assembly is enclosed by a floor membrane above and a ceiling membrane below, draftstopping shall be provided in floor/ceiling assembles under the following circumstances (CRG R02.12):
- b. Floor framing is constructed of truss-type open-web or perforated members Draftstopping materials. Draftstopping shall not be less than 172-inch gyssum board, 3/8-inch wood structural panels, or other approved materials adequately supported. Draftstopping shall be installed parallel to the floor framing members unless otherwise approved by the building official. The integrity of draftstops shall be maintained. (CRC R302.12.1)

. General Material Specifications

- Lumber, All joists, rafters, beams, and posts 2-inches to 4-inches thick shall be No. 2 grade Douglas FirL-4rch or better. All posts and beams 5 inches and thicker shall be No. 1 grade Douglas FirL-4rch or better. Stud
- Concrete. Concrete shall have a minimum compressive strength of 2,500 psi at 28 days and shall consist of 1 part cement, 3 parts sand, 4 parts 1-inch maximum size rock, and not more than 7-112 gallons of water per sack of cement. (CRC R402.2) Mortar Mortar used in construction of masonry walls, foundation walls, and retaining walls shall
- rm to ASTM C 270 and shall consist of 1 part portland cement, 2-1/4 to 3 parts sand, and 1/2 part hydrated lime. (CBC 2103.2) Grout. Grout shall conform to ASTM C 476 and shall consist of 1 part portland cement, 1/10 part hydrated lime, 2-1/4 to 3 parts sand, and 1 to 2 parts gravel. Grout shall attain a minimum compressive strength of 2,000 psi at 28 days. (CBC 2103.3)
- Masonry. Masonry units shall comply with ASTM C 90 for load-bearing concrete masonry units.
- Reinforcing steel. Reinforcing steel used in construction of reinforced masonry or concrete structures shall be deformed and comply with ASTM A 615. (CBC 2103.4) Structural steel. Steel used as structural shapes such as wide-flange sections, channels, plates, and angles shall comply with ASTM A36. Pipe columns shall comply with ASTM A53. Structural tubes shall comply with ASTM A500, Grade B.
- Fasteners for preservative-treated wood. Fasteners for preservative-treated retardant-treated wood including nuts and washers shall be of hot dipped zingalvanized steel, stainless steel, silicon bronze, or copper. (CRC R317.3.1) Exception: 1/2-inch diameter or greater steel bolts Exception: Fasteners other than nails and timber rivets may be of mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum
- **Exception:** Plain carbon steel fasteners acceptable in SBX/DOT and zinc borate preservative-treated wood in an interior, dry environment Fasteners for fire-retardant-treated wood. Fasteners for fire-retardant-treated wood used in exterior applications or wet or damp locations shall be of hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper. (CRC 8317.3.3)

- G. Roofing and Weatherproofing
- Roof flashing. Elashing shall be installed at wall and roof intersections, at gutters, wh there is a change in roof slope or direction, and around roof openings. Where flashing is metal, the metal shall be corrosion-resistant with a thickness of not less than 0.019 inch (No. 2 ickets and saddles. A cricket or saddle shall be installed on the ridge side of any chim netration more than 30 inches wide as measured perpendicular to the slope. Cricket or vering shall be sheet metal or the same material as the roof covering. (CRC R903.2.2)

G. Roofing and Weatherproofing (Continued)

- Water-resistive barrier. A minimum of one layer of No. 15 applied feld shall be altached to suit or sheathing of all exterior weals. Such felt or metarial shall be applied horizontally with the upper layer lapped over the lower layer minimum 2 inches. Where joints occur, felt shall be possible upper minimum 6 inches. The feld shall be confluenced to display of walls and terminated a penetrations and building appendages in a manner to maintain a weather-resistant exterior we envelope. (CRR 703.2)
- Wall flashing. Approved corrosion-resistant flashing shall be applied shingle fashion at the following locations to prevent entry of water into the wall cavity or penetration of water to the building structural framing components (CRC R703.8):
- Exterior door and window openings, extending to the surface of the exterior wall finish or to the water-resistive barrier for subsequent drainage
- At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings
- c. Under and at the ends of masonry, wood, or metal copings and sills
- e. Where exterior porches, decks, or stairs attach to a wall or floor assembly of wood-frame
- f. At wall and roof intersections a. At built-in gutters
- grade shall be installed on the exterior su footing to finished grade. (CRC R406.1) Weep screed. A minimum 0.019-inch (No. 26 galvanized sheet gage), corrosion-resistant we screed or plastic weep screed with a minimum vertical attachment flange of 3-1/2 inches sh be provided at or below the foundation plate line on exterior stud walls in accordance with AST 9-92. The weep screed shall be placed a minimum of inches above the earth or 2 inches abo paved areas and shall be of a type allowing trapped water to drain to the exterior of the building (CRC R703 7 2 1)

Damp proofing. Damp proofing materials for foundation walls enclosing usable space below grade shall be installed on the exterior surface of the wall and shall extend from the top of the

H. Grading and soils

- Grading permit. Grading permit required if volume of earth moved exceeds 200 cubic yards or if any cuts or fills exceed 8 feet in height/depth. (County Grading Ordinance 202)
- Compaction report. Compaction report required for fill material 12 inches or more in depth.

I. Green Building Standards Code (CALGreen) Requirements

- Applicability. CalGreen residential mandatory measures shall apply to every newly constructed building or structure and within any addition or alteration increasing a building's conditioned area, volume, or size. (CalGreen 101.3. CalGreen 301.1.1)
- State (Value 1971-1971). Additions, discretified alterations, additions, improvements shall replace noncompliant plumbing fixtures with water-conserving plumb fixtures per CalGreen 301.1.1 and CalGreen 4.303.1 Water conserving plumbing fixtures and fittings. Plumbing fixtures and fittings shall comply with the following per CalGreen 4.303.1:
- a. Water closets: Maximum 1.28 gallons per flush
- . Urinals: Maximum 0.5 gallons per flush c. Single showerheads: Maximum flow rate of 1.8 gallons per minute at 80 psi
- Lavatory faucets: Maximum flow rate of 1.2 gallons per minute at 60 psi, minimum flow rate of 0.8 gallons per minute at 20 psi . Kitchen faucets: Maximum flow rate of 1.5 gallons per minute at 60 psi (County Green Building Code 97.14.303.14.4)
- **Exception**: Temporary increase allowed to maximum 2.2 gallons per minute at 60 psi if faucet defaults back to maximum 1.5 gallons per minute at 60 psi Appliances: At least one qualified ENERGY STAR dishwasher or clothes washer shall be installed in each dwelling unit. (County Green Building Code 97.1.4.303.3)
- Outdoor potable water uses in landscape areas. Residential developments shall comply with local water efficient landscape ordinance or the current California Department of Water Resources Model Water Efficient Landscape Ordinance (WMELO), whichever is more stringent. Joints and openings. Openings in the building envelope separating conditioned space from unconditioned space needed to accommodate utility and other penetrations must be sealed in compliance with the California Energy Code. (CALGreen 4.406.1)
- Exception: Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such opening with cement mortar. concrete masonry or a similar method acceptable to the enforcing agency. Construction waste reduction, disposal, and recycling. Recycle and/or salvage for reuse a
- with either Section 4.408.2, 4.408.3, or 4.408.4, or meet a more stringent local construction and templition waste management ordinance. (CalGreen 4.408.1) Exception: Excavated soil and land-clearing debris. Exception: Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite. The County of San Diego, Department of Public Works, Construction & Demolition (C&D) Facilities Guide is online at:
- https://www.sandiegocounty.gov/content/dam/sdc/dpw/SOLID_WASTE_PLANNING_ and_RECYCLING/UpdatedCDResources/CDFacility_QuickGuide.pdf Exception: The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.
- Construction waste management plan. A construction waste management plan in conformance with Items 1-5 shall be completed and available on the job site. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency. (CalGreen 4-408.2)
- dentify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale. Specify if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
- Identify diversion facilities where the construction and demolition waste materials will be taken . Identify construction methods employed to reduce the amount of construction and demolition waste generated
- Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both. Waste management company. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1. (CalGreen 4.408.3)
- **Note**: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste company. Waste stream reduction alternative [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 pounds per square foot of the building area shall meet the 65 percent construction waste reduction requirement in Section 4.408.1. (CalGreen 4.408.4)
- 4.408.4.1 Waste stream reduction alternative. Projects that generate a total combined
- **Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1-5, Section 4.408.3, or Section 4.408.4.
- Departion and maintenance manual. Prior to final inspection, a manual, compact disc, web-based reference, or other acceptable media which includes all of the following shall be placed in the building (CALGreen 4.410.1): a. Directions to owner or occupant that manual shall remain with the building throughout the life
- b. Operation and maintenance instructions for the following: Equipment and appliances, including water-saving devices and systems, HVAC system photovoltaic systems, water-heating systems and other major appliances and equipment.
 Roof and yard drainage, including gutters and downspouts.
- III. Space conditioning systems, including condensers and air filters
- . Information from local utility, water, and waste recovery providers on methods to further reduce

f. Information about water-conserving landscape and irrigation design and controllers which

- d. Public transportation and/or carpool options available in the area.
- g. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.

I. (CalGreen) Requirements (Continued)

- Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
- Information about state solar energy and incentive programs available
- A copy of all special inspection verifications required by the enforcing agency or code mation from the Department of Forestry and Fire Protection on maintenance of defensible
- rmation and/or drawings identifying the location of grab bar reinforcements.
- Covering of duct openings and protection of mechanical equipment during construction. At the time of couple installation or entering accepts on the construction is earl until first status of the time of the construction of th
- Adhesives, sealants, caulks, paints, and coatings pollutant control. Adhesives (including carpet adhesives), sealants, caulks, paints, and coatings shall comply with VOC limits per
- CALGreen 4.504.2. Verification of compliance shall be provided at the request of the enforcing agency. (CALGreen 4.504.2.1) Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the following (CALGreen 4.504.3):
- a. Carpet and Rug Institute's Green Label Plus Program (all carpet cushions must meet the requirements of this program).
- b. California Department of Public Health Standard Practice for the testing of VOCs (Specification
- c. NSF/ANSI 140 at the Gold level. d. Scientific Certifications Systems Indoor Advantage™ Gold.
- Resilient flooring systems. At least 80 percent of the floor area receiving resilient flooring shall comply with one of or more of the following (CALGreen 4.504.4):
- a. VOC emission limits defined in the Collaborative for High Performance Schools (CHPS) High Performance Products Database b. Products compliant with CHPS criteria certified under the Greenguard Children & Schools
- c. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program. d. Meet the currently adopted version of California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," (also known as Specification 01350)
- 15. Composite wood products. Hardwood plywood, particleboard and medium density fibe composite wood products used on the interior or exterior of the building shall me requirements for formaldehyde as socified in ARB's Air Toxics Control Measure for Com Vood (17 CCR 93120 et seq.) by or before the dates specified in those sections, as shown in calGreen Table 4.504.5. The following limits are in parts per million (CALGreen 4.504.5):
- Hardwood plywood veneer core b. Hardwood plywood composite core 0.05
- d. Medium-density fiberboard (MDF)
- Moisture content of building materials. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following (CALGreen 4.505.3):
- . Moisture content shall be determined with either a probe-type or contact-type moisture meter
- Moisture readings shall be taken at a point 2 feet to 4 feet from the grade stamped end of each piece to be verified. the wall and floor framing.
- Insulation products which are visibly wet or have high moisture content shall be replaced of allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure. Bathrooms with a bathtub and/or shower shall be mechanically ventilated per the following
- . Fans shall be ENERGY STAR compliant and ducted to terminate outside building Unless functioning as a component of a whole-house ventilation system, fans shall have humidity controls capable of adjustment - manually or automatically - between a relative humidity range of 50% to 80% at
- Heating and air-conditioning system design. Heating and air-conditioning systems shall be sized, designed, and have their equipment selected using the following methods (CALGreen
- b. Duct systems are sized according to the currently adopted version of ANSI/ACCA 1 Manual D, ASHRAE handbooks, or other equivalent design software or methods. c. Select heating and cooling equipment according to the currently adopted version of ACCA 36-S Manual S or other equivalent design software or methods.

	FASTENER SCHEDULE FOR STRUCTURAL MEMBERS TABLE R802.3(1)								
		FASTENING SCHEDULE NUMBER AND TYPE							
M	DESCRIPTION OF BUILDING ELEMENTS	OF FASTENER ^{A, b, c}	SPACING AND LOCATION						
	Roof								
	Blocking between ceiling joists, rafters or trusses to top plate or other framing below	4-8d box (2 ¹ / ₂ " × 0.113"); or 3-8d common (2 ¹ / ₂ " × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Toe nail						
1	Blocking between rafters or truss not at the wall top plates, to rafter or truss	2-8d common (2 ¹ / ₂ " × 0.131"); or 2-3" × 0.131" nalls 2-16d common (3 ¹ / ₂ " × 0.162"); or	Each end toe nail						
	top plates, to rather or truss	3-3" × 0.131" nails	End nail						
	Flat blocking to truss and web filler	16d common (3½" × 0.162"); or 3" × 0.131" nalls	6" o.c. face nall						
2	Ceiling joists to top plate	4-8d box (2 ¹ / ₂ " × 0.113"); or 3-8d common (2 ¹ / ₂ " × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Per joist, toe nail						
3	Celling joist not attached to parallel rafter, laps over partitions [see <u>Section R802.5.2</u> and <u>Table</u> R802.5.2(1)]	4-10d box (3" × 0.128"); or 3-16d common (3 ¹ / ₂ " × 0.162"); or 4-3" × 0.131" nalls	Face nall						
4	Celling joist attached to parallel rafter (heel joint) [see Section R802.5.2 and Table R802.5.2(1)]	Table R802.5.2(1)	Face nall						
5	Collar tie to rafter, face nail	4-10d box (3" × 0.128"); or 3-10d common (3" × 0.148"); or 4-3" × 0.131" nails	Face nail each rafter						
5	Rafter or roof truss to plate	3-16d box (3½" × 0.135"); or 3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss						
,	Roof rafters to ridge, valley or hip rafters or roof rafter to minimum 2" ridge beam	4-16d box (3 ¹ / ₂ " × 0.135"); or 3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails	Toe nail						
	rafter to minimum 2" ridge beam	3-16d box (3 ¹ /2' × 0.135'); or 2-16d common (3 ¹ /2' × 0.162''); or 3-10d box (3' × 0.128''); or 3-3' × 0.131' nails	End nail						
		Wall							
в	Stud to stud (not at braced wall panels)	16d common (3½° × 0.162°)	24" o.c. face nail						
•	audu to stoo (not at braced wan panets)	10d box (3" × 0.128"); or 3" × 0.131" nalls 16d box (3"/ ₂ " × 0.136"); or	16" o.c. face nail						
9	Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	3" × 0.131" nalis 16d common (3½" × 0.162")	12" o.c. face nail 16" o.c. face nail						
		16d common (3½° × 0.162°)	16" o.c. each edge face nail						
0	Built-up header (2" to 2" header with 1/2" spacer)	16d box (3 ¹ /z" × 0.135")	12" o.c. each edge face nail						
1	Continuous header to stud 31/2"	5-8d box (2 ¹ / ₂ " × 0.113"); or 4-8d common (2 ¹ / ₂ " × 0.131"); or 4-10d box (3" × 0.128")	Toe nail						
2	Adjacent full-height stud to end of header	4-16d box (3½°× 0.135°); or 3-16d common (3½°/× 0.162°); or 4-10d box (3° × 0.128°); or 4-3° × 0.131° nails	End nail						
3	Top plate to top plate	16d common (3½" × 0.162")	16" o.c. face nail						
3	1 op plate to top place	10d box (3" × 0.128"); or 3" × 0.131" nalls	12" o.c. face nail						
4	Double top plate splice	8-16d common (3 ¹ / ₂ " × 0.162"); or 12-16d box (3 ¹ / ₂ " × 0.135"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails	Face nail on each side of end joint (minimum 24" lap splice length each side of end joint)						
5	Bottom plate to joist, rim joist, band joist or	16d common (3½" × 0.162")	16" o.c. face nail						
0	blocking (not at braced wall panels)	16d box (3 ¹ / ₂ " × 0.135"); or 3" × 0.131" nails	12" o.c. face nail						
		Roof							
6	Bottom plate to joist, rim joist, band joist or blocking (at braced wall panel)	3-16d box (3 ¹ / ₂ " × 0.135"); or 2-16d common (3 ¹ / ₂ " × 0.162"); or 4-3" × 0.131" nails	16" o.c. face nail						
7	Top or bottom plate to stud	4-8d box (2 ¹ / ₂ * × 0.113°); or 3-16d box (3 ¹ / ₂ * × 0.135°); or 4-8d common (2 ¹ / ₂ * × 0.131°); or 4-10d box (3 ² × 0.128°); or 4-3* × 0.131° nals	Toe nail						
		3-16d box (3 ¹ / ₂ " × 0.135"); or 2-16d common (3 ¹ / ₂ " × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	End nail						
8	Top plates, laps at comers and intersections	3-10d box (3" × 0.128"); or 2-16d common (3 ¹ / ₂ " × 0.162"); or 3-3" × 0.131" nails	Face nall						
9	1" brace to each stud and plate	3-8d box (2 ¹)z* × 0.113*); or 2-8d common (2 ¹)z* × 0.131*); or 2-10d box (3* × 0.128*); or 2-staples 1 ¹)z*	Face nall						
10	1" × 6" sheathing to each bearing	3-8d box (2 ¹ / ₂ " × 0.113"); or 2-8d common (2 ¹ / ₂ " × 0.131"); or 2-10d box (3" × 0.128"); or 2 staples, 1" crown, 16 ga., 1 ³ / ₄ " long	Face nall						
		3-8d box (2½° × 0.113°); or 3-8d common (2½° × 0.131°); or 3.10d box (3° × 0.128°; or							

x (3" × 0.128"); or 3" × 0.13

ommon (4" × 0.192"); or

20" nalvanized cooling nall 7/ss" head diameter or

Deformed (21/2" × 0.120") nail

athing Ring Shank nail meeting the specifications in ASTM F1667 not more than 6 inches on center at all supports where spans are foot by 9-foot panels shall be applied vertically. I included in this table shall be based on Table R602.3(2).

Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the and toe nails from the ceiling loist to too plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall r

19/40" = 3/4"

1/2" gypsum sheathing

40 11/8" - 11/4"

TABLE R602.3(1)

S CATION Ser

End nail

At each joist or rafter, face

Each end, toe nai

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Sheet Number

THERE ARE MINIMUM REQUIREMENTS AND SHALL NOT SUPERSEDE MORE RESTRICTIVE SPECIFICATIONS ON THE PLANS OR AS REQUIRED BY APPLICABLE CODE

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