20 GA x 1-1/4"

STRAP @48" O.C.

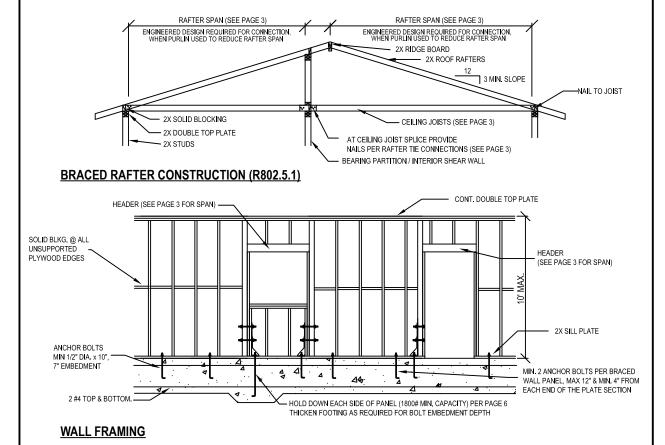


WOOD FRAME PRESCRIPTIVE PROVISIONS FOR ONE-STORY RESIDENTIAL WOOD CONSTRUCTION

The purpose of this Wood Frame Prescriptive Provisions (WFPP) Information Bulletin is to assist owners. builders and others to meet the general requirements and specifications prescribed in the 2013 California Residential Code (CRC) for building one- and two-family dwellings, and townhouses not more than one story in height with light frame wood construction. When portions of a building or structure are of other than light frame wood construction or exceed the limits of this WFPP Information Bulletin, or other local ordinances, these portions and the supporting load path shall be designed by a registered design professional licensed in the State of California. This WFPP Information Bulletin may not be suitable in all cases. Where the proposed construction is located on a site with slope steeper than 10% or has adverse soil conditions (e.g., expansive soil, liquefaction, flood hazard, etc.), a registered design professional licensed in the State of California should be consulted. The use of this WFPP Information Bulletin is permitted at the discretion of the Building Official on a case-by-case basis.

Light-frame wood frame construction is a type of construction that vertical and horizontal structural elements are primarily formed by a system of repetitive wood framing members. It is the least restrictive construction type permitted by the CRC and CBC. This WFPP Information Bulletin is for information and reference only and is not a substitute for accurate construction documents (i.e., drawings, plan specifications, etc) prepared for each proposed construction project. Additional construction documents may be required when the scope of work exceeds the limits of light frame wood construction as prescribed by the CRC.

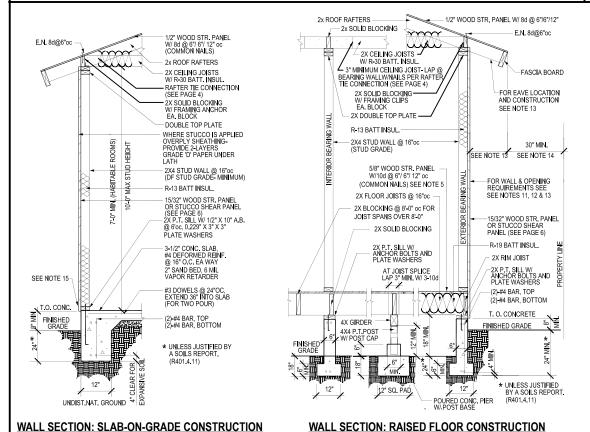
An automatic fire sprinkler system shall be installed in new one and two-family dwellings, and townhouses per R313.2 of the CRC.



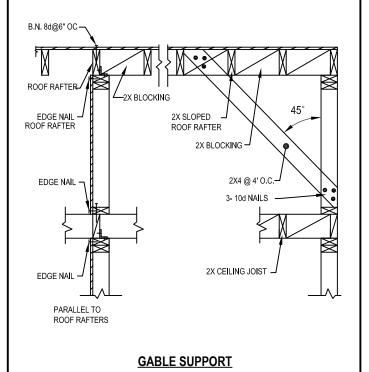
-ROOF SHEATHING 2X ROOF RAFTER ∠ 2 X RIDGE BOARD- DEEPER THAN ROOF SLOPE-COMP SHINGLES (R905.2) RIDGE (R802.3) NAILS (TABLE R602.3(1)) 15/32" WOOD STRUCTURAL PANEL W/8d @ 6"/6"/12"(COMMON NAILS) RAFTER TIE CONNECTION (SEE PAGE 4) B.N. 8d@6" OC **FDGF NAII** *COOODOO* UPLIFT FRAMING CLIP PER TABLE R802.11 2X BLOCKING W/ FRAMING ANCHOR @ EACH BLOCKING BRACED WALL PANEL (SEE PAGE 6)

3:12 TO 4:12 SLOPE W/ 2-LAYERS TYPE 15 FELT

4:12 OR GREATER SLOPE W/ 1-LAYER TYPE 15 FELT

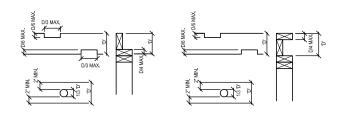


- 1. Anchor bolts 1/2" x 10" embedded 7" and spaced maximum 6' with 0.229" x 3" x 3"" plate washers, minimum 2 anchor bolts per piece. located not more than 12" or less than 7 bolt diameters from each end of the piece.
- 2. All foundation plates or sills and sleepers on a concrete or masonry slab, which is in direct contact with earth, and sills that rest on concrete or masonry foundations shall be preservative treated wood(AWPA U1) and field cut ends, notches, and drilled holes shall be field treated in accordance with AWPA M4. Fasteners (other than anchor bolts) in preservative treated wood or fire retardant treated wood shall be of hot dipped zinc coated galvanized steel or stainless steel.
- 3. Minimum concrete strength 2,500 psi.
- 4. Bearing walls and braced wall panels require continuous footings.
- 5. 23/32" plywood required for 24" joist spacing.
- 6. Where interior walls are shear walls, wall framing and sheathing shall extend to the roof sheathing
- 7. Footings on or adjacent to slopes shall meet the requirements of R403.1.7.
- 8. Walls separating units in townhouses shall be provided with parapet in accordance with R302.2.2
- 9. Projects located in the Very High Fire Hazard Severity Zone (VHFHSZ) must also incorporate the requirements of R327 into the design.
- 10. Exterior walls of dwellings and accessory structures closer than 5-ft. (non-sprinklered) I 3-ft. (sprinklered) to the property line shall be 1-hr fire-resistance rated construction.
- 11. No openings other than approved foundation vents shall be permitted in the exterior walls of dwellings and accessory buildings where the exterior wall is less than 3-ft. to the property line.
- 12. The area of exterior wall openings of non-sprinklered dwellings and accessory buildings located \geq 3-ft. and < 5-ft. to the property line shall be limited to 25% of the wall area. Exterior wall openings are unlimited when exterior walls are located > 5-ft. for non-sprinklered buildings and ≥ 3-ft. for sprinklered buildings.
- 13. Eaves shall be of 1-hr fire-resistive construction on the underside when located between 2-ft. and 5-ft. from the property line for nonsprinklered buildings and between 2-ft, and 3-ft, from the property line for sprinklered buildings. Detached garages within 2-ft of a property line may have a maximum 4-inch eave, provided the eave does not extend over the property line and is allowed by the Zoning Code.
- 14. Eaves shall not project more than 4" for each one foot of required side yard, and shall provide a minimum 30" clear space between the eave and the property line.
- 15. Exterior plaster (stucco) walls shall be provided with a corrosion resistant weep screed complying with R707.6.2.1



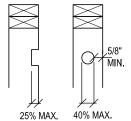


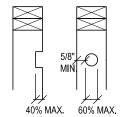




NOTCHING & BORING RAFTERS, CEILING JOISTS, FLOOR JOISTS *NOTCHING NOT PERMITED IN MIDDLE 1/3 JOIST SPAN.

*NOTCHING NOT PERMITED IN MIDDLE 1/3 JOIST SPAN. HOLES SHALL NOT BE LOCATED WITHIN 2" OF A NOTCH

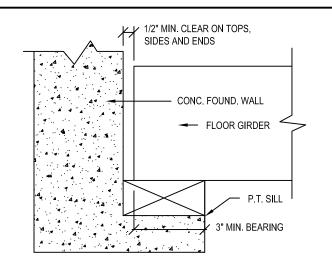




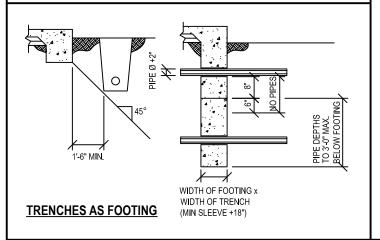
EXTERIOR WALLS AND BEARING PARTITIONS

NON-BEARING PARTITIONS

EXTERIOR WALLS AND BEARING WALLS MAY HAVE BORED HOLES BETWEEN 40 AND 60 PERCENT WHEN STUD IS DOUBLED AND NOT MORE THAN TWO SUCCESSIVE DOUBLE STUDS ARE BORED (R502.1, R802.7.1, R602.6)



GIRDER (R317.1/R502.6)



DF#2 CEILING JOISTS, ALLOWABLE SPANS

JOIST	ATTIC	S WITHOUT S	TORAGE, LL =	: 10psf	ATTICS WITH LIMITED STORAGE, LL = 20psf								
SPACING	2 X 4	2 X 6 2 X 8		2 X 10	2 X 4	2 X 6	2 X 8	2 X 10					
12"	12-5	19-6	25-8	26-0	9-10	14-10	18-9	22-11					
16"	11-3	17-8	23-0	26-0	8-9	12-10	16-3	19-10					
24"	9-10	14-10	18-9	22-11	7-2	10-6	13-3	16-3					

*DATA FROM CBC 2013 TABLE 2308.10.2. ATTICS WITH STORAGE ARE THOSE WHERE THE CLEAR HEIGHT BETWEEN THE CEILING JOIST AND RAFTER IS 42" OR GREATER. ATTICS SHALL BE UNINHABITABLE. CEILING DEAD LOAD SHALL NOT EXCEED 5 PSF.

DF#2 RAFTERS, ALLOWABLE SPANS

RAFTER	DL = 10psf, LL = 20psf													
SPACING	2 X 4	2 X 6	2 X 8	2 X 10	2 X 12									
12"	9'-10"	15'-6"	20'-5"	25'-8"	26'-0"									
16"	8'-11"	14'-1"	18'-2"	22'-3"	25'-9"									
24"	7'-10"	11'-9"	14-'10"	18'-2"	21'-0"									

*DATA FROM CBC 2013 TABLE 2308.10.3(2).

DF#2 FLOOR JOIST, ALLOWABLE SPANS

JOIST	DL = 10psf, LL = 40psf												
SPACING	2 x 6	2 x 8	2 x 10	2 x 12									
12"	10'-9"	14'-2"	17'-9"	20'-7"									
16"	9'-9"	12'-7"	15'-5"	17'-10"									
24"	8'-1"	10'-3"	12'-7"	14'-7"									

*DATA FROM CBC 2013 TABLE 2308.8(2).

DF HEADER AND GIRDER SPANS FOR EXTERIOR BEARING WALLS, ALLOWABLE SPANS

			DL = 25psf,	LL = 30psf		DL = 25psf, LL = 50psf								
SIZE	20-feet bui	lding width	28-feet building width		36-feet bui	lding width	20-feet bui	lding width	28-feet bui	lding width	36-feet building width			
	Span NJ		Span NJ		Span NJ		Span NJ		Span NJ		Span	NJ		
2-2 X 6	5'-5"	1	4'-8"	1	4'-2"	1	4-8	1	4-1	1	3-8	2		
2-2 X 8	6'-10"	1	5'-11"	2	5'-4"	2	5-11	2	5-2	2	4-7	2		
2-2 X 10	8'-5"	2	7'-3"	2	6'-6"	2	7-3	2	6-3	2	5-7	2		
2-2 X 12	9'-9"	2	8'-5"	2	7'-6"	2	8-5	2	7-3	2	6-6	2		
3-2 X 8	8'-4"	1	7'-5"	1	6'-8"	1	7-5	1	6-5	2	5-9	2		
3-2 X 10	10'-6"	1	9'-1"	2	8'-2"	2	9-1	2	7-10	2	7-0	2		
3-2 X 12	12'-2"	2	10'-7"	2	9'-5"	2	10-7	2	9-2	2	8-2	2		

*DATA FROM CBC 2013 TABLE 2308.9.5.

DF HEADER AND GIRDER SPANS FOR INTERIOR BEARING WALLS, ALLOWABLE SPANS

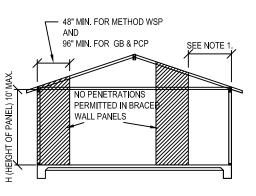
SIZE			ONE FLO	OR ONLY		TWO FLOORS								
	20-feet bui	lding width	28-feet building width		36-feet building width		20-feet building width		28-feet bui	lding width	36-feet building width			
	Span	NJ	Span	NJ	Span NJ		Span NJ		Span NJ		Span	NJ		
2-2 X 6	4-6	1	3-11	1	3-6	1	3-2	2	2-9	2	2-5	2		
2-2 X 8	5-9	1	5-0	2	4-5	2	4-1	2	3-6	2	3-2	2		
2-2 X 10	7-0	2	6-1	2	5-5	2	4-11	2	4-3	2	3-10	3		
2-2 X 12	8-1	2	7-0	2	6-3	2	5-9	2	5-0	3	4-5	3		
3-2 X 8	7-2	1	6-3	1	5-7	2	5-1	2	4-5	2	3-11	2		
3-2 X 10	8-9	1	7-7	2	6-9	2	6-2	2	5-4	2	4-10	2		
3-2 X 12	10-2	2	8-10	2	7-10	2	7-2	2	6-3	2	5-7	3		

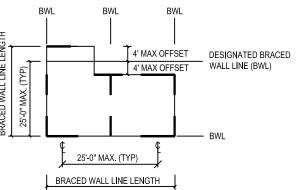
*DATA FROM CBC 2013 TABLE 2308.9.6.

RAFTER TIE CONNECTIONS, #16d COMMON NAILS

		RAFTER SLOPE																						
TIE	3:12				4 : 12					5 :	12			7:	12			9:	12		12 : 12			
SPACING	G Span				Span				Span			Span			Span				Span					
	12'	20'	28'	36'	12'	20'	28'	36'	12'	20'	28'	36'	12'	20'	28'	36'	12'	20'	28'	36'	12'	20'	28'	36'
12"	4	6	8	10	3	4	5	6	3	3	4	5	3	3	3	4	3	3	3	3	3	3	3	3
16"	5	7	10	13	3	5	7	8	3	4	5	7	3	3	4	5	3	3	3	4	3	3	3	3
24"	7	11	15	19	4	7	10	12	4	6	8	10	3	4	6	7	3	3	5	6	3	3	3	4
32"	10	14	19	25	6	9	13	16	5	8	10	13	4	6	8	10	3	4	6	8	3	3	4	5
48"	14	21	29	37	8	14	19	24	7	11	15	20	5	8	11	14	4	6	9	11	3	4	6	7

*DATA FROM CBC 2013 TABLE 2308.10.4.1. THE NUMBER OF NAILS SPECIFIED IN THE TABLE SHALL BE PROVIDED AT EACH CONNECTION. WHEN FULL-HEIGHT INTERIOR BEARING WALLS OR PURLIN BRACING ARE PROVIDED. RAFTER TIE NAILING MAY BE REDUCED PROPORTIONAL TO THE REDUCTION IN RAFTER SPAN; NO LESS THAN 3 NAILS SHALL BE PROVIDED AT EACH CONNECTION. NO SNOW LOAD.

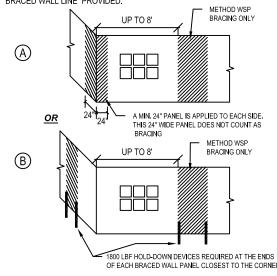




BRACED WALL PANEL REQUIREMENTS

NOTES

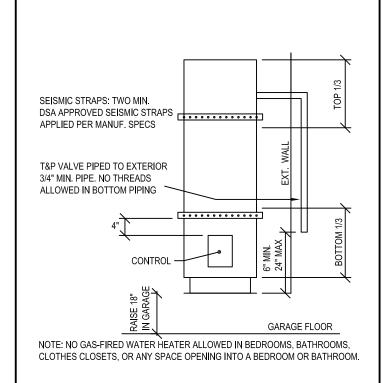
I. BRACED WALL LINES AT EXTERIOR WALLS SHALL HAVE A BRACED WALL PANEL LOCATED AT EACH END OF THE BRACED WALL LINE. EXCEPTION: FOR METHOD WSP, THE BRACED WALL PANEL SHALL BE PERMITTED TO BEGIN NO MORE THAN 8 FEET FROM EACH END OF THE BRACED WALL LINE PROVIDED:



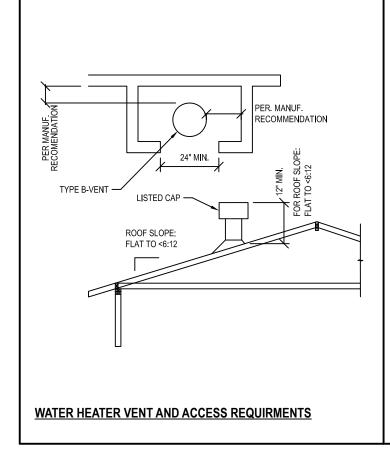
- MIXING BRACING METHODS WITHIN A BRACED WALL LINE IS NOT PERMITTED. INTERIOR BRACE WALL PANEL SHALL BE LOCATED NOT MORE THAN 12.5-FT FROM THE END OF A BRACED WALL LINE AND THE TOTAL COMBINED
- FROM THE END OF A BRACED WALL LINE AND THE TOTAL COMBINED DISTANCE FROM EACH END SHALL NOT EXCEED 12.5 FT AS DEMONSTRATED IN FIGURE R602.10.1.4(2) OF THE CRC.
- HOLD-DOWN DEVICE SHALL BE APPROVED BY CURRENT LOS ANGELES CITY RESEARCH REPORT OR A NATIONALLY RECOGNIZED AGENCY REPORT W/ 25% CAPACITY REDUCTION.

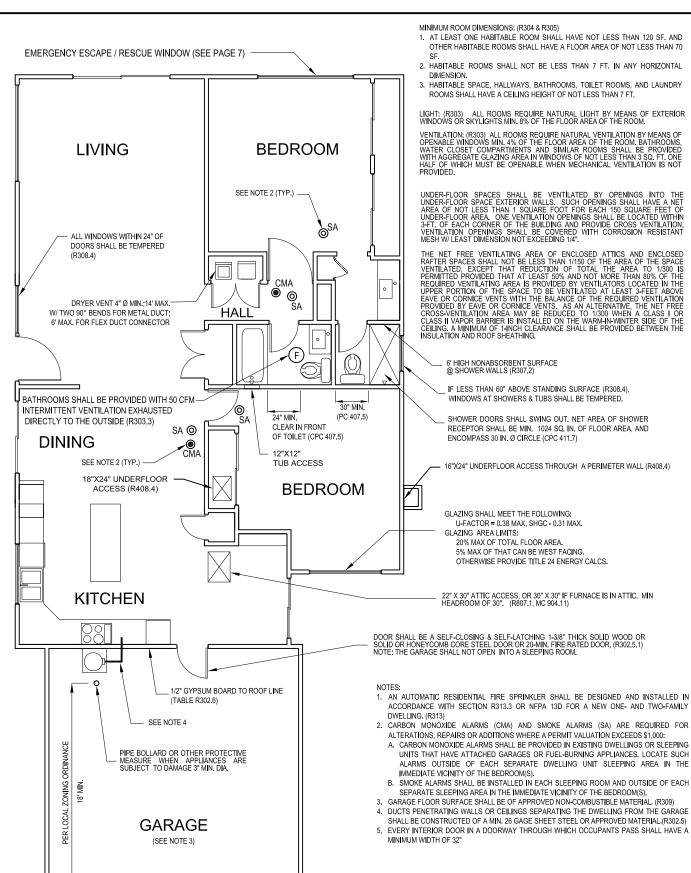
Building & Safety Division

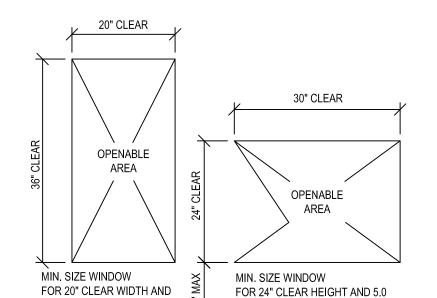




WATER HEATER (CPC 508)







1. 20" MIN. CLEAR WIDTH

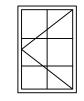
5.0 S.F. OPENABLE AREA

- 2. 24" MIN. CLEAR HEIGHT
- 3, 5,0 SF MIN, OPENABLE AREA AT GRADE-FLOOR ONLY, 5,7 SF MIN, ELSEWHERE,

S.F. OPENABLE AREA

EMERGENCY ESCAPE/RESCUE OPENING (R310)

THE FOLLOWING WINDOW SIZES WILL BE THE MINIMUM ALLOWED FOR 5.0 SF.



SINGLE CASEMENT: 2-4 X 4-0, 2-6 X 3-6 DOUBLE CASEMENT: 4-8 X 4-0

CASEMENT/ FIXED COMBO: 7-0 X 4-0 OTHER WINDOW TYPES: AWNING & BAY W/ FIXED CENTER: NONE W/O MANUF. DATA

SINGLE/ DOUBLE HUNG: 3-0 X 5-0, 3-0 X 5-6, 3-4 X 5-0, 3-8 X 5-0, 4-0 X 5-0 SINGLE/ FIXED COMBO: NONE W/O MANUF. DATA

SI IDER 4-0 X 4-0

5-0 X 3-6 6-0 X 3-0 SLIDER/ FIXED COMBO: 8-0 X 4-0 10-0 X 4-0

12-0 X 3-0

FINISH FLOOR

NOTE: SIZES ARE TAKEN FROM DATA SUPPLIED BY WINDOW MANUFACTURERS. HOWEVER, THESE ARE GENERAL DIMENSIONS AND MUST BE VERIFIED WITH ACTUAL WINDOWS INSTALLED TO MEET MINIMUM EGRESS REQUIREMENTS.