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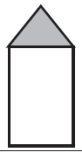
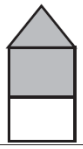
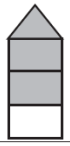
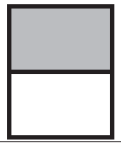
1st through 10th PRINTING (April 15, 2014)

CHAPTER 6
WALLS

TABLE R602.3(5)
SIZE, HEIGHT AND SPACING OF WOOD STUDS[a]

STUD SIZE (inches)	BEARING WALLS					NONBEARING WALLS	
	Laterally unsupported stud height[a] (feet)	Maximum spacing when supporting a roof-ceiling assembly or a habitable attic assembly, only (inches)	Maximum spacing when supporting one floor, plus a roof-ceiling assembly or a habitable attic assembly (inches)	Maximum spacing when supporting two floors, plus a roof-ceiling assembly or a habitable attic assembly (inches)	Maximum spacing when supporting one floor height[a] (inches)	Laterally unsupported stud height[a] (feet)	Maximum spacing (inches)
							

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1st through 7th PRINTING (Posted: October 3, 2012)

CHAPTER 6
WALL CONSTRUCTION

TABLE R611.7(1C)

TABLE R611.7(1C)
UNREDUCED LENGTH, *UR*, OF SOLID WALL REQUIRED IN EACH EXTERIOR SIDEWALL FOR WIND PARALLEL TO RIDGE[a,c,d,e,f,g]

SIDEWALL LENGTH (feet)	ENDWALL LENGTH (feet)	ROOF SLOPE	UNREDUCED LENGTH, *UR*, OF SOLID WALL REQUIRED IN SIDEWALLS FOR WIND PARALLEL TO RIDGE (feet)						
			Basic Wind Speed (mph) Exposure						
			85B	90B	100B	110B	120B	130B	
					85C	90C	100C	110C	
						85D	90D	100D	
			One story or top story of two-story						Minimum[b]
		< 1:12	0.95	1.06	1.31	1.59	1.89	2.22	0.90

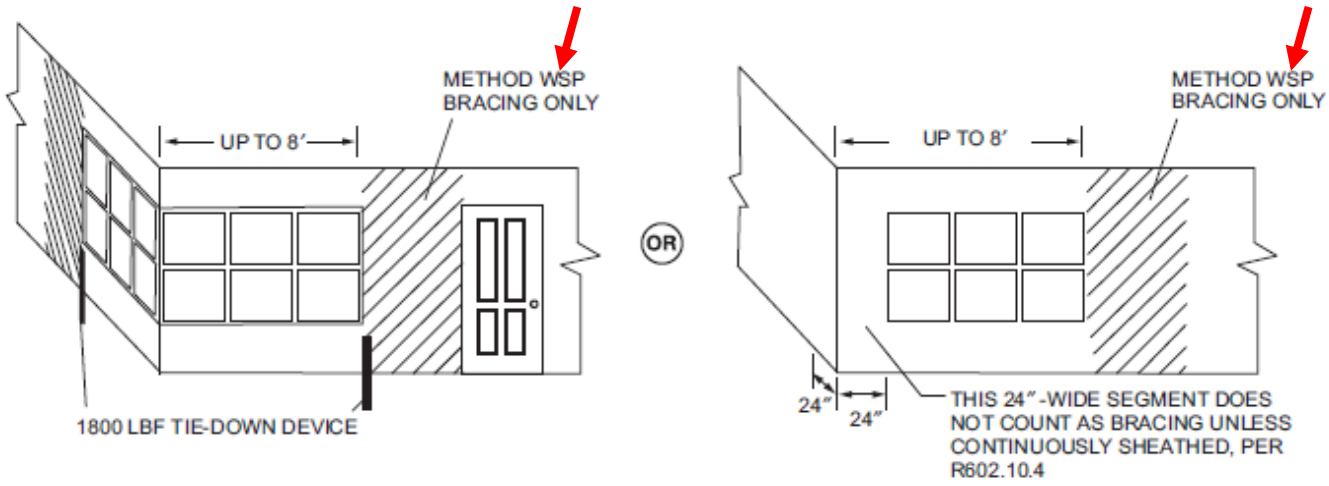
TABLE R611.7(1C)—continued
UNREDUCED LENGTH, *UR*, OF SOLID WALL REQUIRED IN EACH EXTERIOR SIDEWALL FOR WIND PARALLEL TO RIDGE FIRST STORY OF TWO-STORY[a,c,d,e,f,g]

SIDEWALL LENGTH (feet)	ENDWALL LENGTH (feet)	ROOF SLOPE	UNREDUCED LENGTH, *UR*, OF SOLID WALL REQUIRED IN SIDEWALLS FOR WIND PARALLEL TO RIDGE (feet)						
			Basic Wind Speed (mph) Exposure						
			85B	90B	100B	110B	120B	130B	
					85C	90C	100C	110C	
						85D	90D	100D	
									Minimum[b]
		< 1:12	7.34	8.22	10.17	12.29	14.62	17.16	7.85

1st through 5th PRINTING (February 28, 2012)

CHAPTER 6
WALL CONSTRUCTION

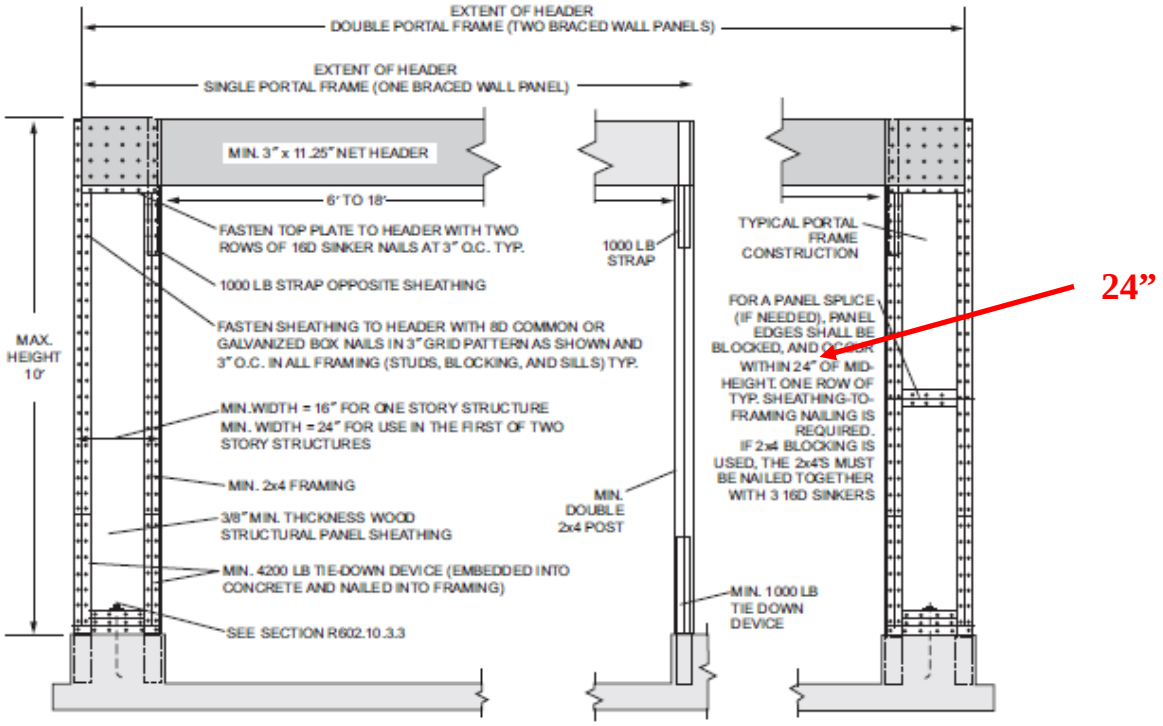
FIGURE R602.10.1.4.1



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound force = 4,448 N.

FIGURE R602.10.1.4.1
BRACED WALL PANELS AT ENDS OF BRACED WALL LINES IN SEISMIC DESIGN CATEGORIES D_0, D_1 AND D_2

FIGURE R602.10.3.4



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound force = 4.448 N.

FIGURE R602.10.3.3
METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS

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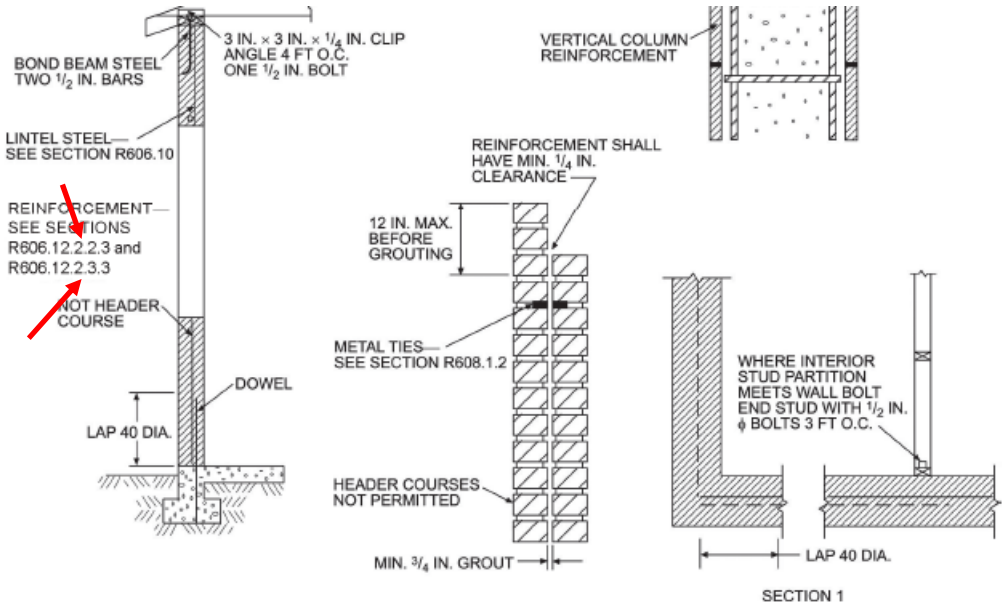
FIGURE R603.6(2)

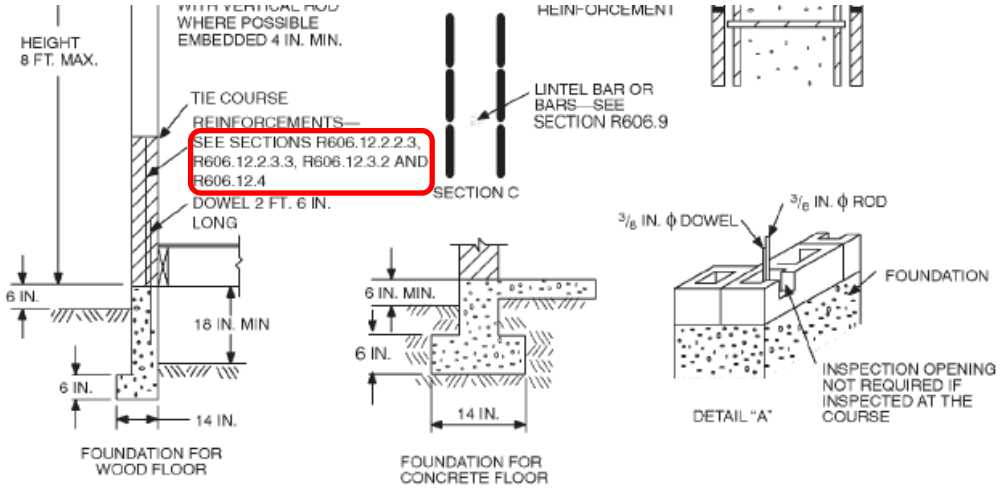
FIGURE R606.11.2



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R606.11(2)
REQUIREMENTS FOR REINFORCED GROUTED MASONRY CONSTRUCTION IN SEISMIC DESIGN CATEGORY C

FIGURE R606.11(3)



NOTE: A full bed joint must be provided. All cells containing vertical bars are to be filled to the top of wall and provide inspection opening as shown on detail "A." Horizontal bars are to be laid as shown on detail "B." Lintel bars are to be laid as shown on Section C.

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R606.11(3)
REQUIREMENTS FOR REINFORCED MASONRY CONSTRUCTION IN SEISMIC DESIGN CATEGORY D_0, D_1, OR D_2

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(Portions of text and tables not shown are unaffected by the errata)

TABLE R611.8(2)

TABLE R611.8(2)
MAXIMUM ALLOWABLE CLEAR SPANS FOR 4-INCH NOMINAL THICK FLAT LINTELS IN LOAD-BEARING WALLS[a, b, c, d, e, f, m]
ROOF CLEAR SPAN 40 FEET AND FLOOR CLEAR SPAN 32 FEET

LINTEL DEPTH, D[g] (inches)	NUMBER OF BARS AND BAR SIZE IN TOP AND BOTTOM OF LINTEL	STEEL YIELD STRENGTH[h], f_y (psi)	DESIGN LOADING CONDITION DETERMINED FROM TABLE R611.8(1)								
			1	2		3		4		5	
			Maximum ground snow load (psf)								
				30	70	30	70	30	70	30	70
			Maximum clear span of lintel (feet - inches)								

1st through 4th PRINTING (Posted: 11-29-2011)

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WALL CONSTRUCTION

TABLE R602.3(1)
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

Other wall sheathing[h]				
34	½" structural cellulosic fiberboard sheathing	1 ½" galvanized roofing nail, 7/16" crown or 1" crown staple 16 ga., 1 1/4" long	3	6

1st through 4th PRINTING (Posted: August 11, 2011)

CHAPTER 6
WALL CONSTRUCTION

Table R602.3(1)

TABLE R602.3(1)
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER[b,c,e]	SPACING OF FASTENERS	
			Edges (inches)[i]	Intermediate supports[c,e] (inches)
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particle board wall sheathing to framing				
30	3/8" – ½"	6d common (2"x 0.113") nail (subfloorwall)[j] 8d common (2 ½" x 0.131") nail (roof)[f]	6	12[g]

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(Portions of text and tables not shown are unaffected by the errata)

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CHAPTER 6
WALL CONSTRUCTION

TABLE R602.3(2)….

Note f. Hardboard underlayment shall conform to CPA/ANSI~~/AHA~~ A135.4

FIGURE R602.10.3.3
METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS

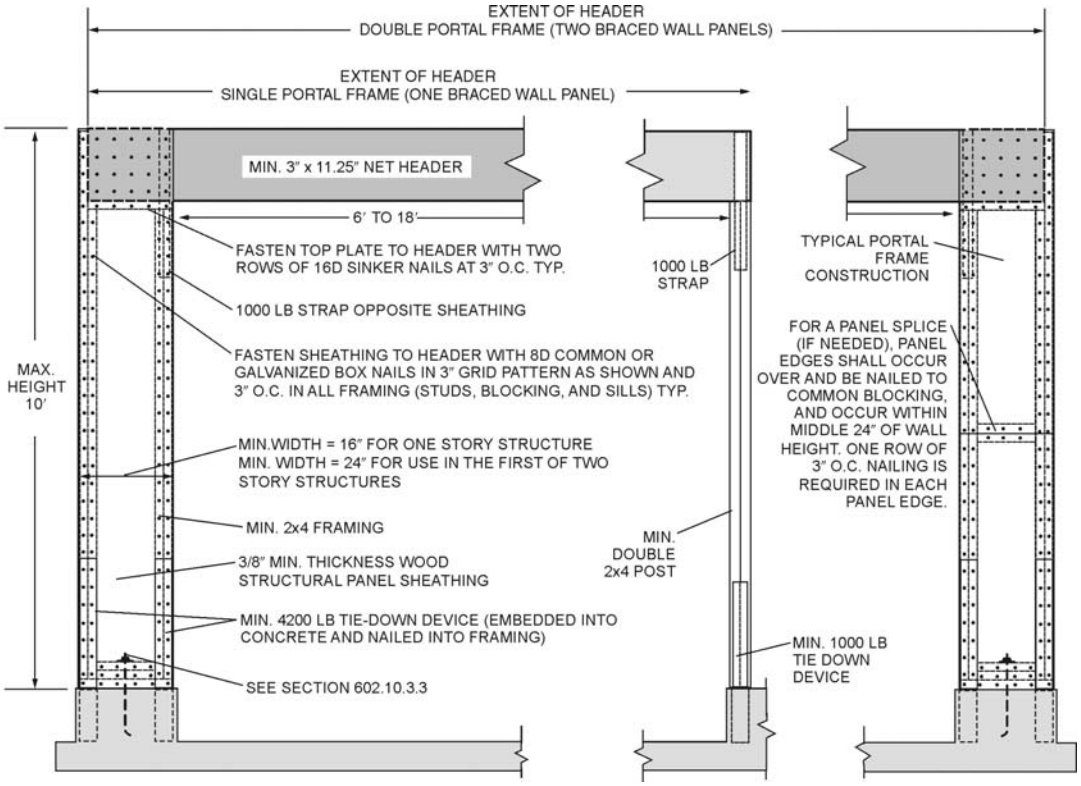
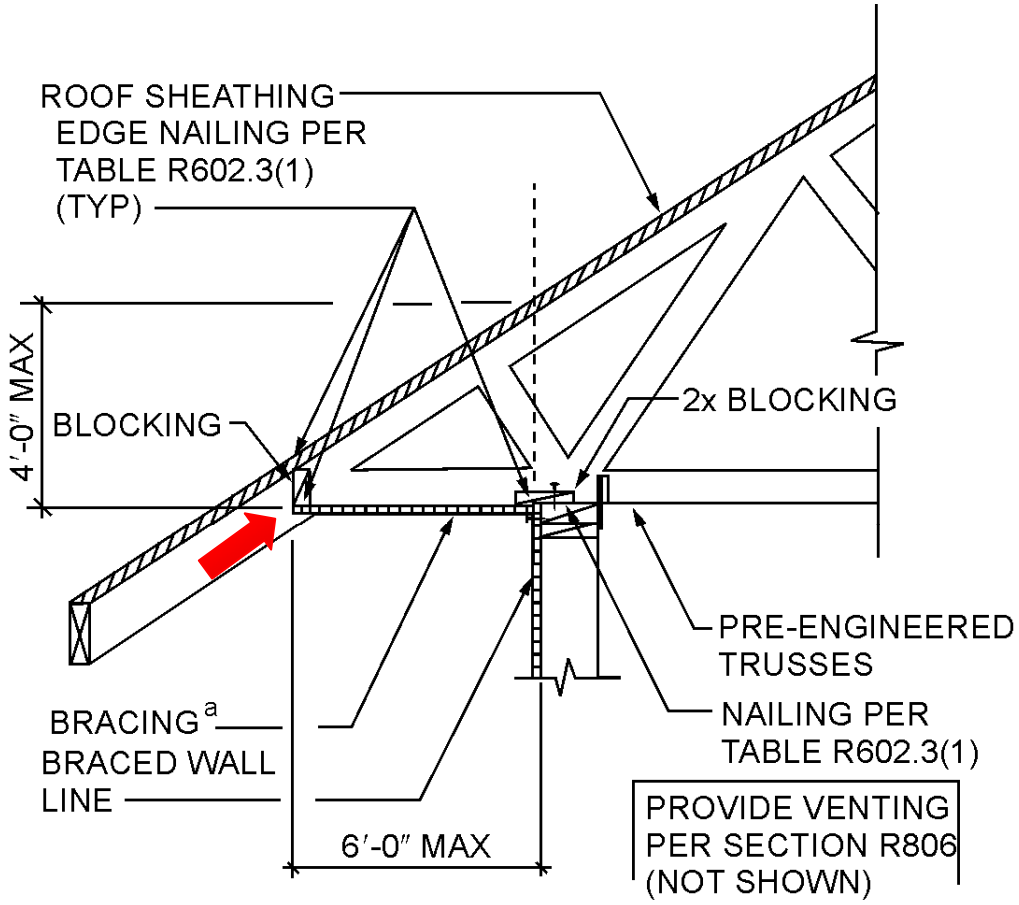


FIGURE R602.10.6.2(2)
BRACED WALL PANEL CONNECTION OPTION TO PERPENDICULAR RAFTERS OR ROOF TRUSSES



a. METHODS OF BRACING SHALL BE AS DESCRIBED IN SECTION R602.10.2 METHOD DWB, WSP, SFT, BG, PBS, PCP OR HPS

TABLE R611.8(2)
MAXIMUM ALLOWABLE CLEAR SPANS FOR 4-INCH NOMINAL THICK FLAT LINTELS IN LOAD-BEARING WALLS[a, b, c, d, e, f, m]
ROOF CLEAR SPAN 40 FEET AND FLOOR CLEAR SPAN 32 FEET

LINTEL DEPTH, D^g (inches)	NUMBER OF BARS AND BAR SIZE IN TOP AND BOTTOM OF LINTEL	STEEL YIELD STRENGTH[h], f_y(psi)	DESIGN LOADING CONDITION DETERMINED FROM TABLE R611.8(1)								
			1	2		3		4		5	
			MAXIMUM GROUND SNOW LOAD (psf)								
				30	70	30	70	30	70	30	70
			Maximum clear span of lintel (feet - inches)								

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TABLE R602.3(1)
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER[a, b, c]	SPACING OF FASTENERS
Wall			
13	Double top plates, minimum ~~48~~ 24-inch offset of end joints, face nail in lapped area	8-16d (3 ½" x 0.135")	—

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(Portions of text and tables not shown are unaffected by the errata)

1st through 3rd PRINTING (JULY 14, 2011)

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WALL CONSTRUCTION

TABLE R602.10.1.2(3)
ADJUSTMENT FACTORS TO THE LENGTH OF REQUIRED SEISMIC WALL BRACING[a]

ADJUSTMENT BASED ON:			MULTIPLY LENGTH OF BRACING PER WALL LINE BY:	APPLIES TO:
Roof/ceiling dead load for wall supporting[b]	roof only or roof plus one story	≤ 15 psf	1.0	
	roof only	<15 psf ≤ 25 psf	~~1.1~~ 1.2	
	roof plus one story	<15 psf ≤ 25 psf	~~1.2~~ 1.1	
Walls with stone or masonry veneer in SDC-C-D_2		See Section R703.7		
Cripple walls		See Section R602.10.9		

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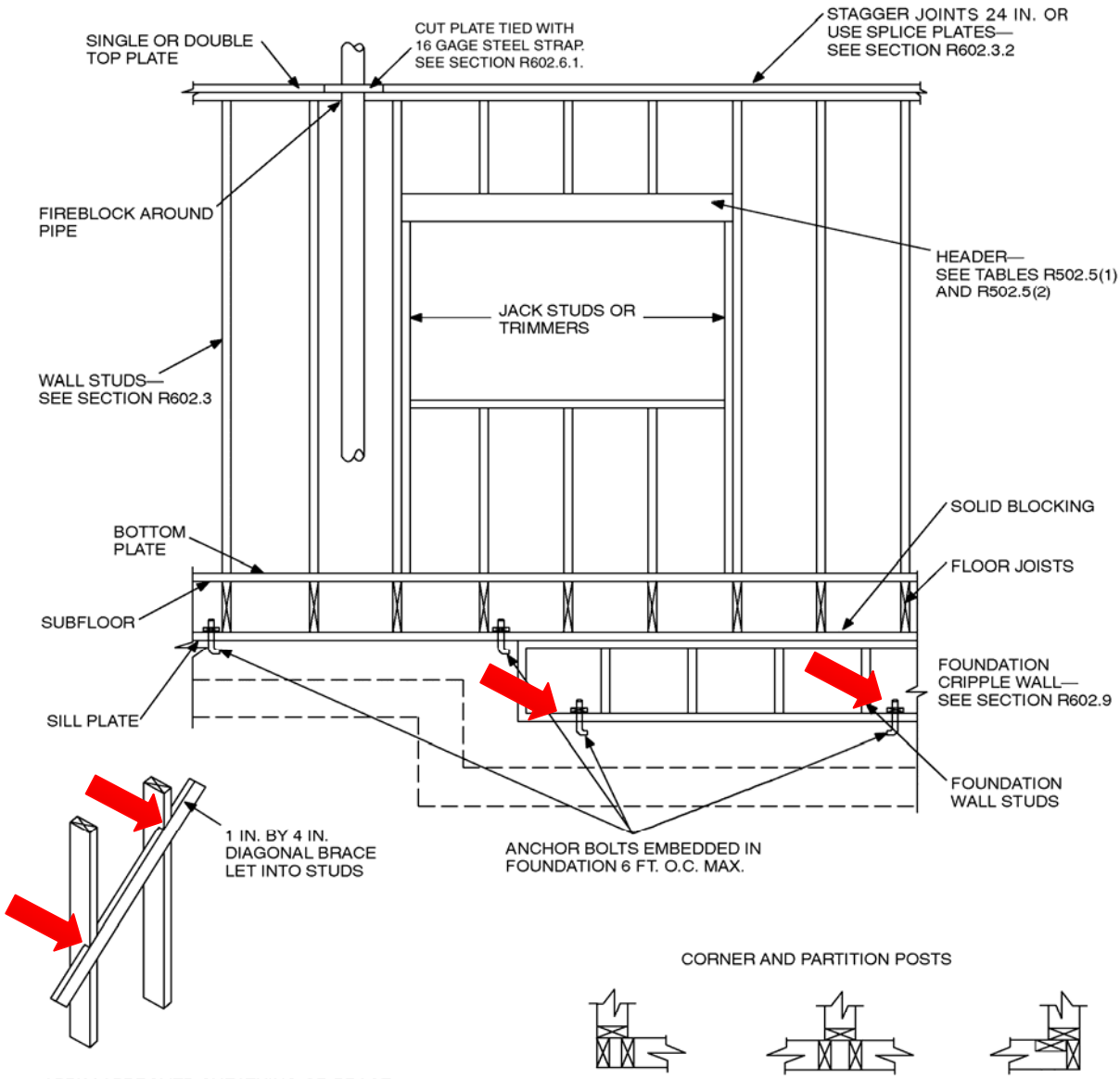
CHAPTER 6
WALL CONSTRUCTION

TABLE R602.3(1)
FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING MATERIALS	DESCRIPTION OF FASTENER	SPACING OF FASTENERS	
			Edges (inches)[i]	Intermediate supports[c,e] (inches)
Wood structural panels. Subfloor, roof and interior wall sheathing to				
~~31~~	~~5/16" – ½"~~	~~6dcommon (2" x 0.113) nail (subfloor, wall) 8d common (2 ½" – 0.131") nail (roof)[f]~~	~~6~~	~~12[g]~~
~~32~~ 31				
~~33~~ 32				
~~34~~ 33				
~~35~~ 34				
~~36~~ 35				
~~37~~ 36				
~~38~~ 37				
~~39~~ 38				
~~40~~ 39				

FIGURE R602.3(2)
FRAMING DETAILS



FIGURER602.6.1
TOP PLATE FRAMING TO ACCOMMODATE PIPING

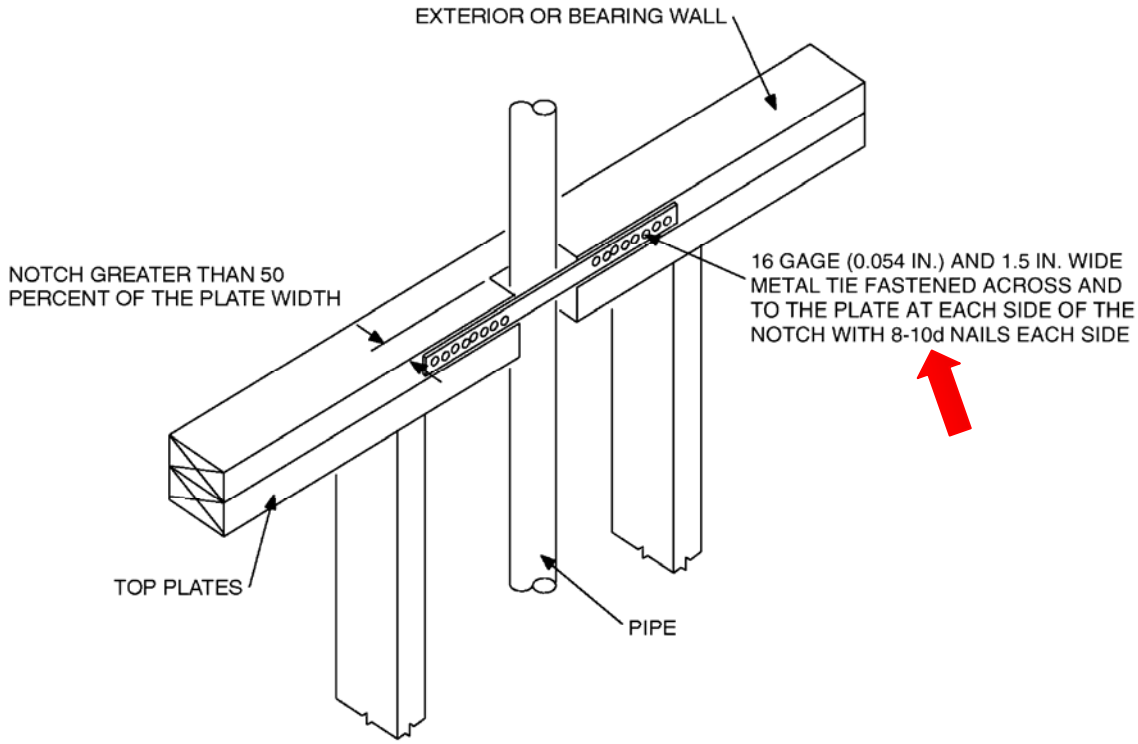


TABLE R602.10.1.2(1)[a,b,c.d,e]
BRACING REQUIREMENTS BASED ON WIND SPEED
(as a function of braced wall line spacing)

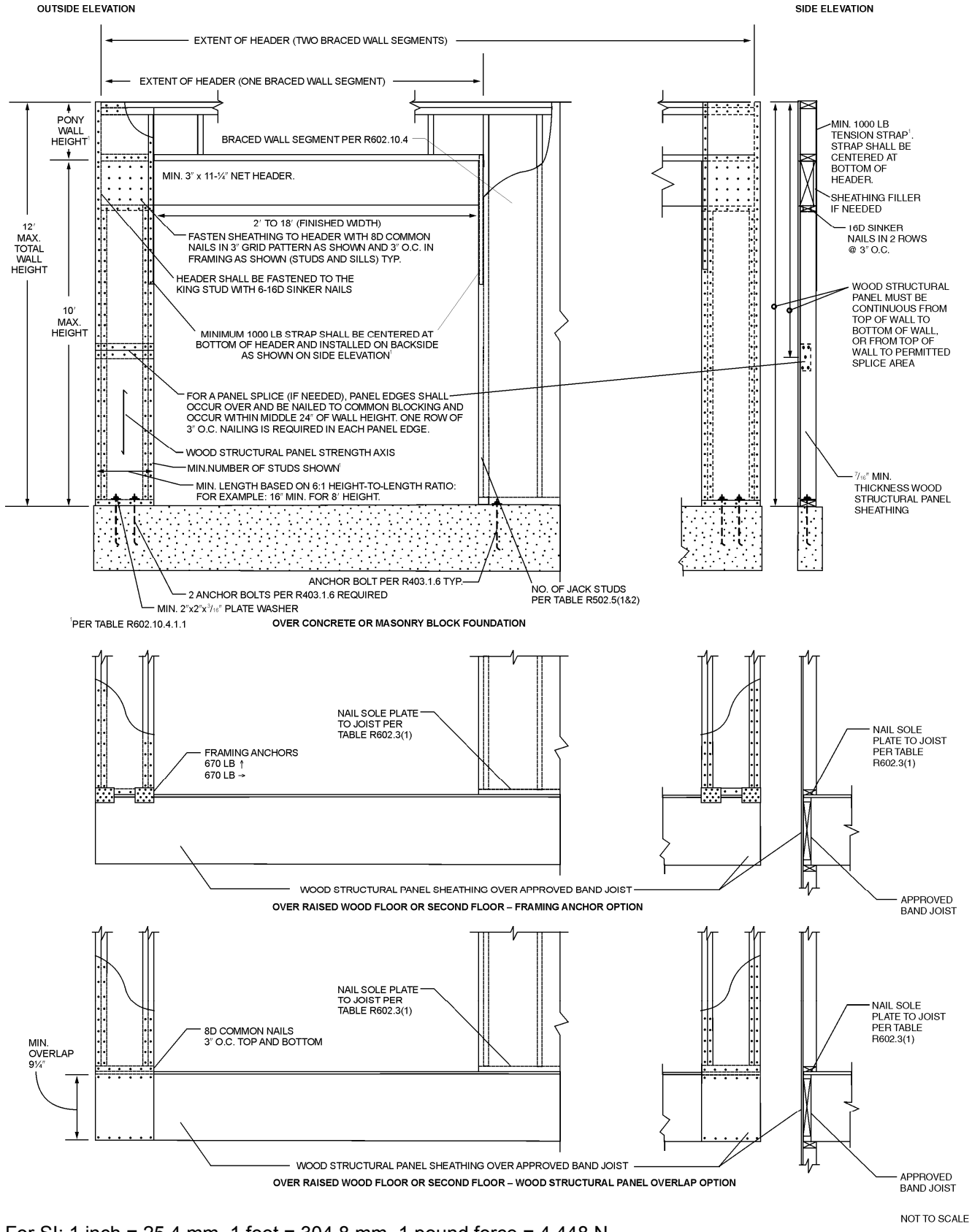
EXPOSURE CATEGORY B, 30 FT MEAN ROOF HEIGHT, 10 FT EAVE TO RIDGE HEIGHT, 10 FT WALL HEIGHT, 2 BRACED WALL LINES			MINIMUM TOTAL LENGTH (feet) OF BRACED WALL PANELS REQUIRED ALONG EACH BRACED WALL LINE			
Basic Wind Speed (mph)	**Story Location**	**Braced Wall Line Spacing (feet)**	**Method LIB[g, h]**	**Method GB (double sided)[a]**	**Methods DWB, WSP, SFB, PBS, PCP, HPS[f],**	**Continuous Sheathing**

For SI: 1 foot = 304.8 mm, 1 inch = 25.4 mm, 1 mile per hour = 0.447 m/s, 1 pound force = 4.448 N.

a. Tabulated bracing lengths are based on Wind Exposure Category B, a 30-ft mean roof height, a 10-ft eave to ridge height, a 10-ft wall height, and two braced wall lines sharing load in a given plan direction on a given story level. Methods of bracing shall be as described in Sections R602.10.2, R602.10.4 and R602.10.5. Interpolation shall be permitted.

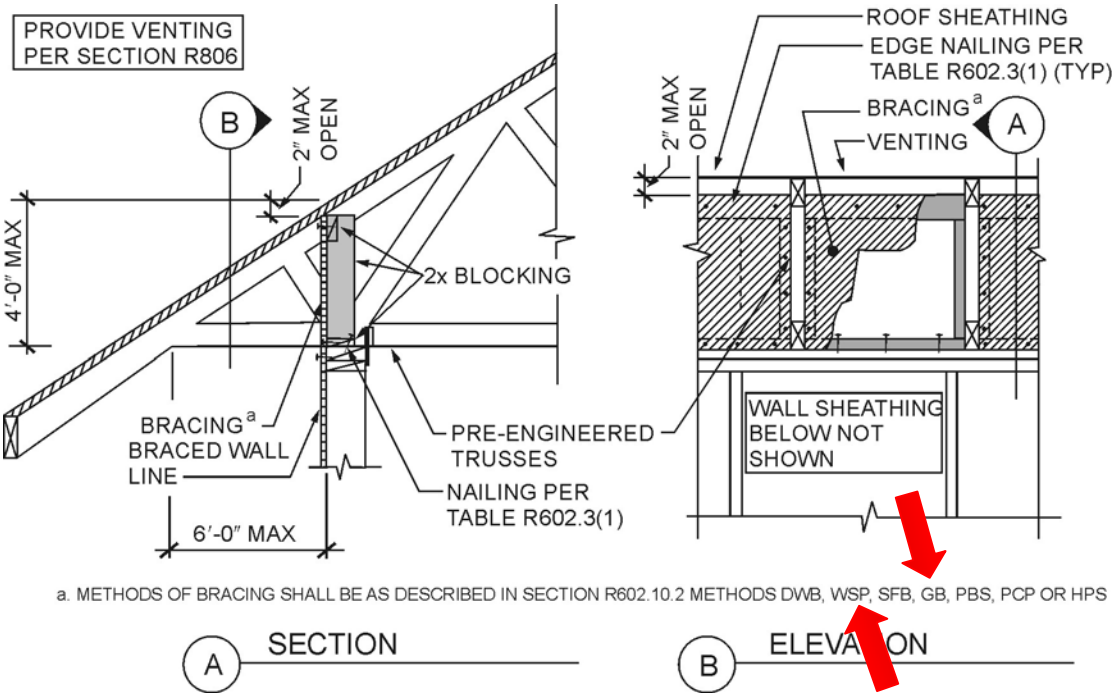
b. For other mean roof heights and exposure categories, the required bracing length shall be multiplied by the appropriate factor from the following table:

Figure R602.10.4.1.1
METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
REPLACE FIGURE IN ITS ENTIRETY WITH THE FOLLOWING:



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound force = 4.448 N.

FIGURE R602.10.6.2(3)
BRACED WALL PANEL CONNECTION OPTION TO PERPENDICULAR RAFTERS OR ROOF TRUSSES



R603.3.3 Stud bracing.…..

3. Sheathing on one side and strapping on the other side fastened in accordance with Figure R603.3.3(2). Sheathing shall be installed in accordance with Item 1. Steel straps shall be installed in accordance with Item 2.

TABLE R603.3.2(30)
40-FOOT-WIDE BUILDING SUPPORTING TWO FLOORS, ROOF AND CEILING[a,b,c]
33 ksi STEEL

Figure ~~601.6(2)~~ R603.6(2)
BACK-TO-BACK HEADER

TABLE R603.6(23)
BACK-TO-BACK HEADER
Headers Supporting Two Floors, Roof and Ceiling (~~50~~ 33 ksi steel)[a,b]

R604.3 Installation. Wood structural….in accordance with Table R602.3(1) or Table R602.3(3). Wood panels….

TABLE R607.1
MORTAR PROPORTIONS[a,b]

……

Note c. Hydrated lime conforming to the requirements of ASTM C 270.

R608.2.2 Masonry laid in stack bond. Where unit masonry is laid with less head joint offset that in Section ~~R607.2.1~~ R608.2.1. the minimum area……

R613.5 Wall construction. Exterior walls…….Framing shall be attached in accordance with ~~Section~~ Table R602.3(1) unless ……

FIGURE R613.5(3)
TRUSSED ROOF TO TOP PLATE CONNECTION

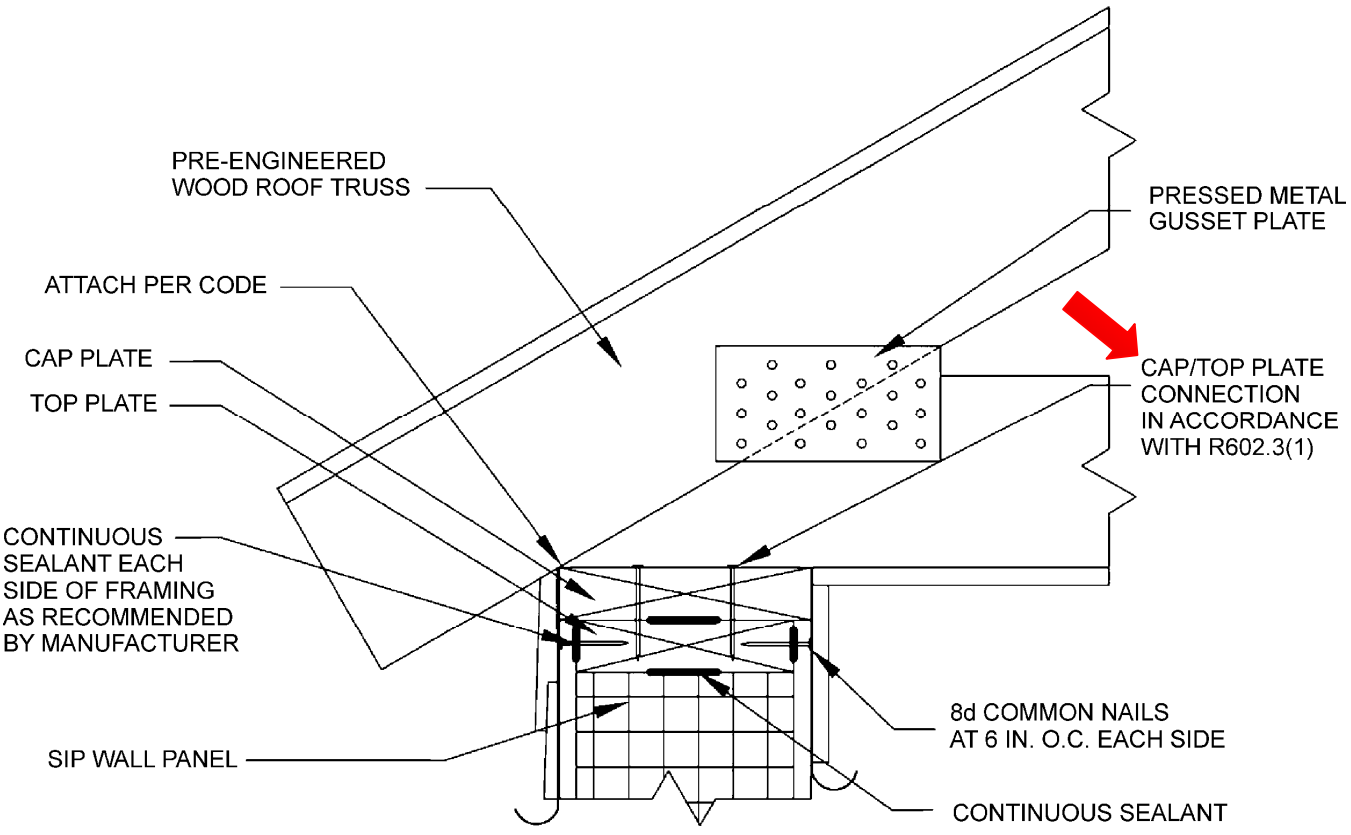


TABLE ~~R614.10~~ R613.10
MAXIMUM SPANS FOR 11-7/8 DEEP SIP HEADERS (feet)

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1st and 2nd PRINTING (SEPTEMBER 14, 2009)

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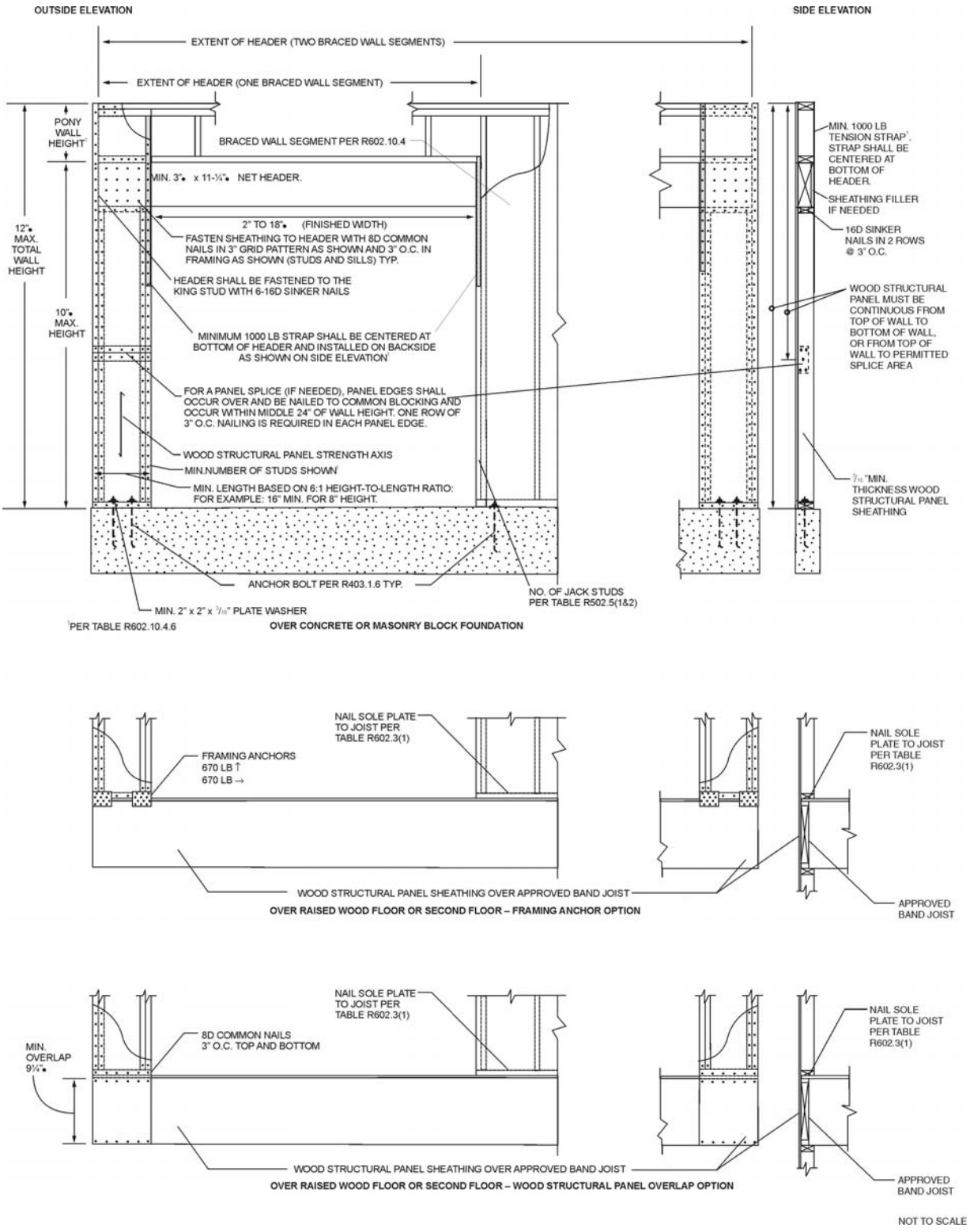
FIGURER602.10.4.1.1
METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
REPLACE FIGURE IN ITS ENTIRETY WITH THE FOLLOWING:



R606.1 General. Masonry construction shall be designed and constructed in accordance with the provisions of this section or in accordance with the provisions of ~~ACI 530/ASCE 5/TMS 402~~ TMS 402/ACI 530/ASCE 5.

R606.1.1 Professional registration not required. When the empirical design provisions of ~~ACI 530/ASCE 5/TMS 402~~ TMS 402/ACI 530/ASCE 5 Chapter 5 or the provisions of this section are used to design masonry, project drawings, typical details and specifications are not required to bear the seal of the architect or engineer responsible for design, unless otherwise required by the state law of the *jurisdiction* having authority.

R606.12.1 General. Masonry structures and masonry elements shall comply with the requirements of Sections R606.12.2 through R606.12.4 based on the seismic design category established in Table R301.2(1). Masonry structures and masonry elements shall comply with the requirements of Section R606.12 and Figures R606.11(1), R606.11(2) and R606.11(3) or shall be designed in accordance with ~~ACI 530/ASCE 5/TMS 402~~ TMS 402/ACI 530/ASCE 5.

R606.12.2.3.1 Connections to masonry shear walls. Connectors shall be provided to transfer forces between masonry walls and horizontal elements in accordance with the requirements of ~~Section 2.1.8 of ACI 530/ASCE 5/TMS 402~~ Section 1.7.4 of TMS 402/ACI 530/ASCE 5. Connectors shall be designed …..

.

R606.12.2.3.2 Connections to masonry columns. Connectors shall be provided to transfer forces between masonry columns and horizontal elements in accordance with the requirements of ~~Section 2.1.8 of ACI 530/ASCE 5/TMS 402~~ Section 1.7.4 of TMS 402/ACI 530/ASCE 5. Where anchor bolts are used to …..

R606.12.3.1 Design requirements. Masonry elements other than those covered by Section R606.12.2.2.2 shall be designed in accordance with the requirements of Chapter 1 and Sections 2.1 and 2.3 of ~~ACI 530/ASCE 5/TMS 402~~ TMS 402/ACI 530/ASCE 5 and shall meet the minimum ….

TABLE ~~R614.10~~ R613.10
MAXIMUM SPANS FOR 11-7/8 INCH DEEP SIP HEADERS (feet)

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(Portions of text and tables not shown are unaffected by the errata)

1st PRINTING (SEPTEMBER 14, 2009)

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WALL CONSTRUCTION

TABLE R602.10.1.5
ADJUSTMENTS OF BRACING LENGTH FOR BRACED WALL LINE~~S~~ SPACING GREATER THAN 25 FEET[a,b]

TABLE R602.10.4.1.1
TENSION STRAP CAPACITY REQUIRED FOR RESISTING WIND PRESSURES PERPENDICULAR TO 6:1 ASPECT RATIO WALLS[a,b]

MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE	MAXIMUM PONY WALL HEGHT (feet)	MAXIMUM TOTAL WALL HEIGHT (feet)	MAXIMUM OPENING WIDTH (feet)	BASIC WIND SPEED (mph)					
				85	90	100	85	90	100
				Exposure B			Exposure C		
				Tension strap capacity required (lbf)[a,b]					
2x4 No. 2 Grade	4	12	9	1775	2350	~~500~~ 3500	3550	DR	DR
			16	4175	DR	DR	DR	DR	DR

TABLE R602.12(2)
STONE OR MASONRY VENEER WALL BRACING REQUIREMENTS, ONE- AND TWO-FAMILY DETACHED DWELLINGS, SEISMIC DESIGN CATEGORIES D_0, D_1 and D_2

SEISMIC DESIGN CATEGORY	NUMBER OF STORIES[a]	STORY	MINIMUM SHEATHING AMOUNT (~~length~~ percent of braced wall line length ~~in feet~~)[b]	MINIMUM SHEATHING THICKNESS AND FASTENING	SINGLE STORY HOLD DOWN FORCE (lb)[c]	CUMULATIVE HOLD DOWN FORCE (lb)[d]