

1 tall wall elevation  
1/2"=1'-0"

FORTE MEMBER REPORT North Tall Wall, C06 & C07					
3 piece(s) 1 1/2" x 7 1/4" 1.5E TimberStrand® LSL					
Wall Height: 16' 5"	Member Height: 16' 1/2"	Tributary Width: 7' 6"	PASSED		
<b>Design Results</b>	<b>Actual</b>	<b>Allowed</b>	<b>Result</b>	<b>LDF</b>	<b>Load: Combination</b>
Slenderness	23	50	Passed (45%)	--	--
Compression (lbs)	663	35397	Passed (2%)	0.90	1.0 D
Plate Bearing (lbs)	663	13866	Passed (5%)	--	1.0 D
Lateral Reaction (lbs)	1111	--	--	1.60	1.0 D + 0.6 W
Lateral Shear (lbs)	1028	17574	Passed (6%)	1.60	1.0 D + 0.6 W
Lateral Moment (ft-lbs)	44576 @ mid-span	12364	Passed (36%)	1.60	1.0 D + 0.6 W
Lateral Deflection (in)	0.69 @ mid-span	0.80	Passed (L/279)	--	1.0 D + 0.6 W
Bending/Compression	0.37	1	Passed (37%)	1.60	1.0 D + 0.6 W

• Lateral deflection criteria:  $\text{Wind} \times (L/240)$   
 • Axial load eccentricity for the column is 1/8 of applicable member side dimension.  
 • Applicable calculations are based on NDS.  
 • The column stability factor ( $K_f = 0.6$ ) applied to this design assumes nailed-up columns per NDS section 15.3.3. Also refer to our Weyerhaeuser's U.S. Residential Wall Guide for multiple-member connection requirements.

Supports	Type	Material	System : Wall
Top	Dbl 2X	Spruce-Pine-Fir	Member Type : Column
Base	2X	Spruce-Pine-Fir	Building Code : IBC 2012
Max Unbraced Length			Design Methodology : ASD

Lateral Connections: Simpson Strong-Tie Connectors					
Supports	Plate Size	Plate Material	Connector	Type/Model	Quantity   Nailing
Top	Dbl 2X	Spruce-Pine-Fir	Connector not found	N/A	N/A
Base	2X	Spruce-Pine-Fir	Connector not found	N/A	N/A

Vertical Load	Trib Width	Dead (0.90)	Comments
1 - Point (lb)	N/A	408	Linked from: H01, Support 1
2 - Point (lb)	N/A	255	Linked from: H02, Support 1

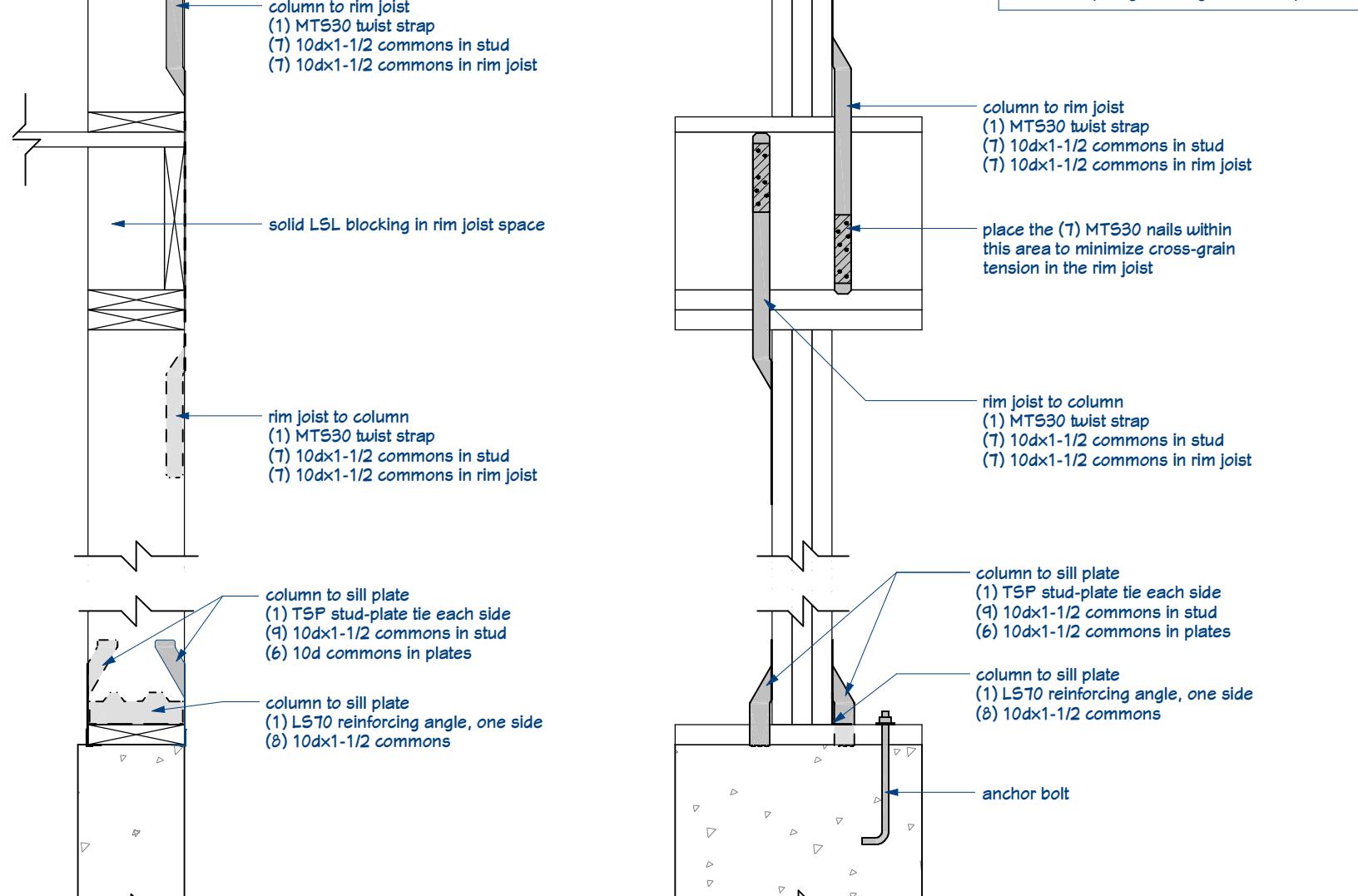
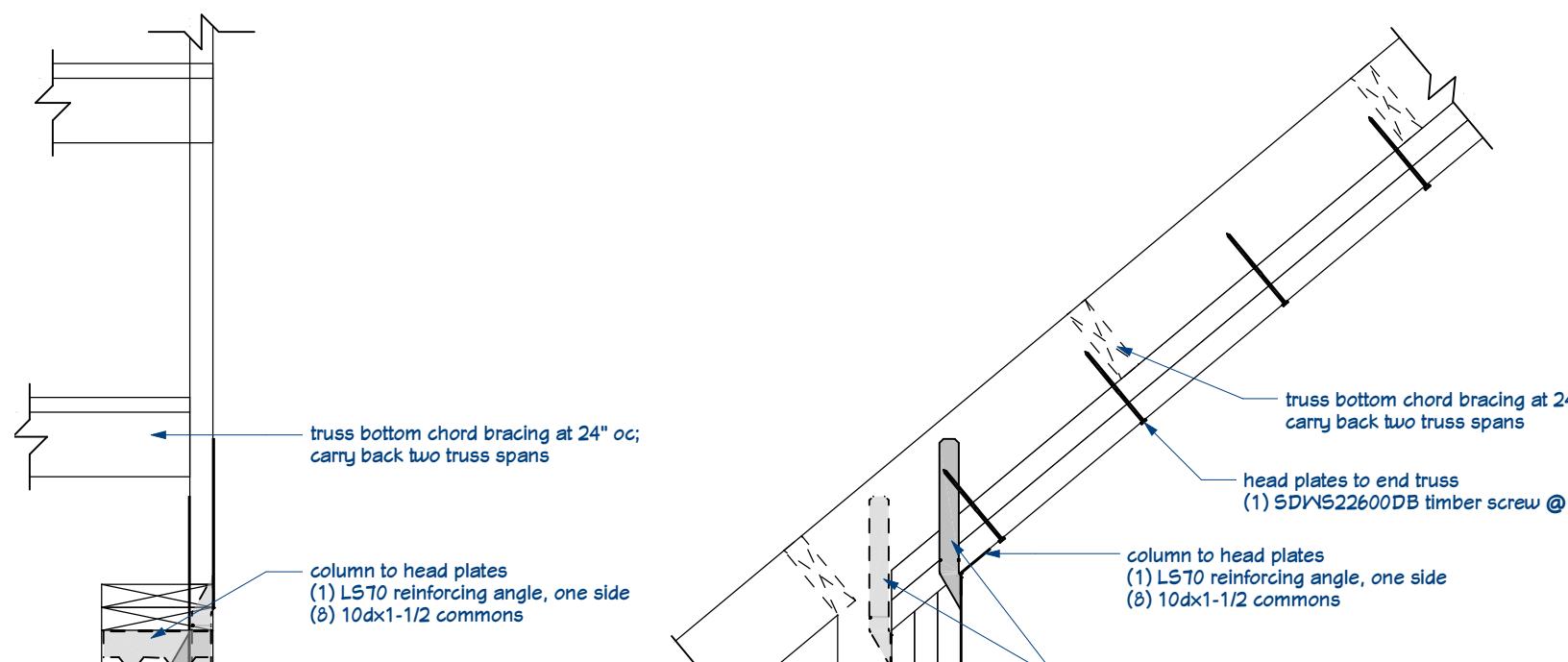
Lateral Load	Location	Trib Width	Wind (1.60)	Comments
1 - Uniform (PSF)	Full Length	7' 6"	30.8	

• ASCE/SEI 1-10 Sec. 30.4: Exposure Category (C), Mean Roof Height (30'), Topographic Factor (1.0), Wind Directionality Factor (0.85), Basic Wind Speed (115 mph), Risk Category (II), Effective Wind Area determined using full member span and trib. width.

• 2012 IBC Table 1604.3, footnote f: Deflection checks are performed using 42% of this lateral wind load.

**Member Notes**

stud pack supporting H01 & H02



section detail

elevation detail

2 columns C6, C7, C8 & C9 connections  
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north tall wall framing details

as indicated