ST GEORGE LOT 1510
LYNDSEY RESIDENCE
BRACING PER SDC TABLE R602.10.1.2(2)

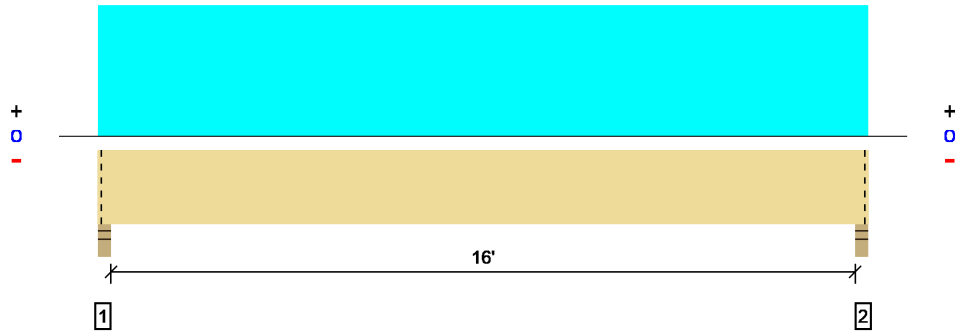
BWL	BWL SPACING MAX 35'	BWL LENGTH	SHEAR WALL TYPE	METHOD GB MIN LENGTH	METHOD WSP MIN LENGTH	METHOD CSWSP MIN LENGTH	MULTIPLY FROM TABLE 602.10.1.5	TOTAL BRACED WALL LENGTH REQUIRED	TOTAL BRACED WALL LENGTH PROVIDED	WALL 1 LENGTH	WALL 2 LENGTH	WALL 3 LENGTH	WALL 4 LENGTH	WALL 5 LENGTH	WALL 6 LENGTH
A	**35**	68	C	20.4	13.6	11.56	1.4	16.184	27.34	11	12.34	4			
B	**35**	59	C	17.7	11.8	10.03	1.4	14.042	31	6	25				
C				0	0	0	1	FALSE	0						
D				0	0	0	1	FALSE	0						
E				0	0	0	1	FALSE	0						
F				0	0	0	1	FALSE	0						
G				0	0	0	1	FALSE	0						
1	**28.34**	35.5	C	10.65	7.1	6.035	1.1336	6.841276	8.5	1.5	1.5	2.75	2.75		
2	**35**	35.5	W	10.65	7.1	6.035	1.4	9.94	10	5	5				
3	**35**	35.5	C	10.65	7.1	6.035	1.4	8.449	16.5	1.67	14.83				
4				0	0	0	1	FALSE	0						
5				0	0	0	1	FALSE	0						
6				0	0	0	1	FALSE	0						
7				0	0	0	1	FALSE	0						
8				0	0	0	1	FALSE	0						
9				0	0	0	1	FALSE	0						

MEMBER REPORT *ROOF, RB-1*

PASSED

2 piece(s) 1 3/4" x 11 7/8" 1.9E Microllam® LVL

Overall Length: 16' 7"



All Dimensions Are Horizontal; Drawing is Conceptual

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	876 @ 2"	5206	Passed (17%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	741 @ 1' 3 3/8"	9871	Passed (8%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	3487 @ 8' 3 1/2"	22310	Passed (16%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.071 @ 8' 3 1/2"	0.542	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.189 @ 8' 3 1/2"	0.813	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof
Member Type : Drop Beam
Building Use : Residential
Building Code : IBC
Design Methodology : ASD
Member Pitch: 0/12

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 16' 7" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Stud wall - SPF	3.50"	3.50"	1.50"	544	332	876	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.50"	544	332	876	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Comments
1 - Uniform(PSF)	0 to 16' 7"	2'	27.1	20.0	

iLEVEL Notes

iLevel warrants that the sizing of its products will be in accordance with iLevel product design criteria and published design values. iLevel expressly disclaims any other warranties related to the software. Refer to current iLevel literature for installation details. (www.iLevel.com) Accessories (Rim Board, Blocking Panels and Squash Blocks) are not designed by this software. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. iLevel products manufactured at Weyerhaeuser facilities are third-party certified to sustainable forestry standards.

The product application, input design loads, dimensions and support information have been provided by Forte Software Operator

SUSTAINABLE FORESTRY INITIATIVE

Forte Software Operator	Job Notes
Lane Roundy LCR DESIGN INC (435) 668-7358 Roundy01@msn.com	SG1510

LOAD BEARINGS BASED ON MIN 1500 lbs/sqft PER IRC 401.4.1

CONTINUOUS FOOTINGS

Width (in)	Depth (in)	Loads (plf)	#4 Bars
16	10	2000	2
18	10	2250	2
20	10	2500	2
24	12	3000	3
30	12	3750	4
36	12	4500	4
42	12	5250	5
48	12	6000	6

SPOT FOOTINGS

Width (in)	Depth (in)	Loads (lb)	#4 Bars
18	12	3375	2
24	12	6000	3
30	12	9375	4
36	12	13500	4
42	12	18375	5
48	12	24000	6
54	12	30375	6
60	12	37500	7