Job	Truss	Truss Type	Qty	Ply	4955 Ray Rd Spring Lake, NC
4111091	A04	Roof Special	1	1	Job Reference (optional)

Builders FirstSource, Valeska — Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Wed Nov 20 07:47:42 — Page: 1

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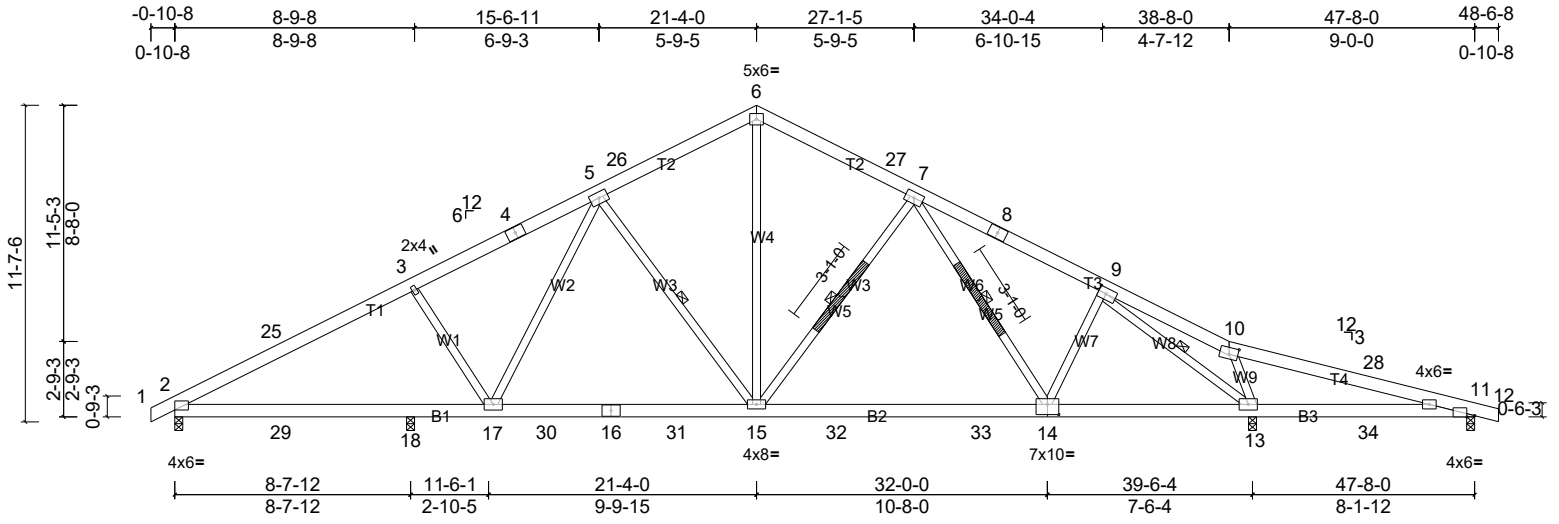

Scale = 1:84.9

REPAIR(S) REQUIRED

Plate Offsets (X, Y): [2:Edge,0-0-0], [9:0-3-8,0-2-8], [10:0-3-12,0-3-0], [11:0-3-7,Edge], [14:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.19	15-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.34	15-17	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.07	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.14	15-17	>999	240	Weight: 346 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-15, 7-15, 7-14, 9-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 0-3-8.

(lb) - Max Horiz 2=-252 (LC 13)

Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-414 (LC 12), 11=-236 (LC 9), 13=-560 (LC 13), 18=-120 (LC 9)

Max Grav All reactions 250 (lb) or less at joint(s) except 2=1427 (LC 2), 11=305 (LC 26), 13=2127 (LC 2), 18=447 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-25=-2393/720, 3-25=-2286/748, 3-4=-2174/705, 5-26=-1710/670, 6-26=-1642/698, 6-27=-1642/702, 7-27=-1712/674, 7-8=-1902/646, 8-9=-1975/626, 10-28=-136/256

BOT CHORD 2-29=-690/2085, 18-29=-690/2085, 17-18=-690/2085, 17-30=-417/1781, 16-30=-417/1781, 16-31=-417/1781, 15-31=-417/1781, 15-32=-283/1679, 32-33=-283/1679, 14-33=-283/1679, 13-14=-294/1595

WEBS 3-17=-396/422, 5-15=-528/410, 6-15=-367/1198, 7-15=-436/358, 9-14=0/350, 9-13=-2075/390, 5-17=-164/337, 10-13=-557/482

NOTES

1) Repair Condition: web has 0-1-0 long break centered at 4-6-0 below joint 7.
2) Repair Condition: web has 0-1-0 long break centered at 4-5-0 below joint 7.
3) Apply 37" long 2x4 SP No.2 scab to front side(s) of truss centered on damage located 4-6-0 below joint 7 with 2 row(s) of 10d (0.131"x3") nails spaced 2" o.c. from front face. Minimum 0-3-0 end distance.
4) Apply 37" long 2x4 SP No.2 scab to front side(s) of truss centered on damage located 4-5-0 below joint 7 with 2 row(s) of 10d (0.131"x3") nails spaced 2" o.c. from front face. Minimum 0-3-0 end distance.
5) Repairs specified by this program will be subject to review and change.
6) Unbalanced roof live loads have been considered for this design.
7) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-10-11, Interior (1) 3-10-11 to 21-4-0, Exterior(2R) 21-4-0 to 26-1-3, Interior (1) 26-1-3 to 48-6-8 zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
8) All plates are 5x8 MT20 unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 414 lb uplift at joint 2, 560 lb uplift at joint 13, 235 lb uplift at joint 11 and 120 lb uplift at joint 18.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard