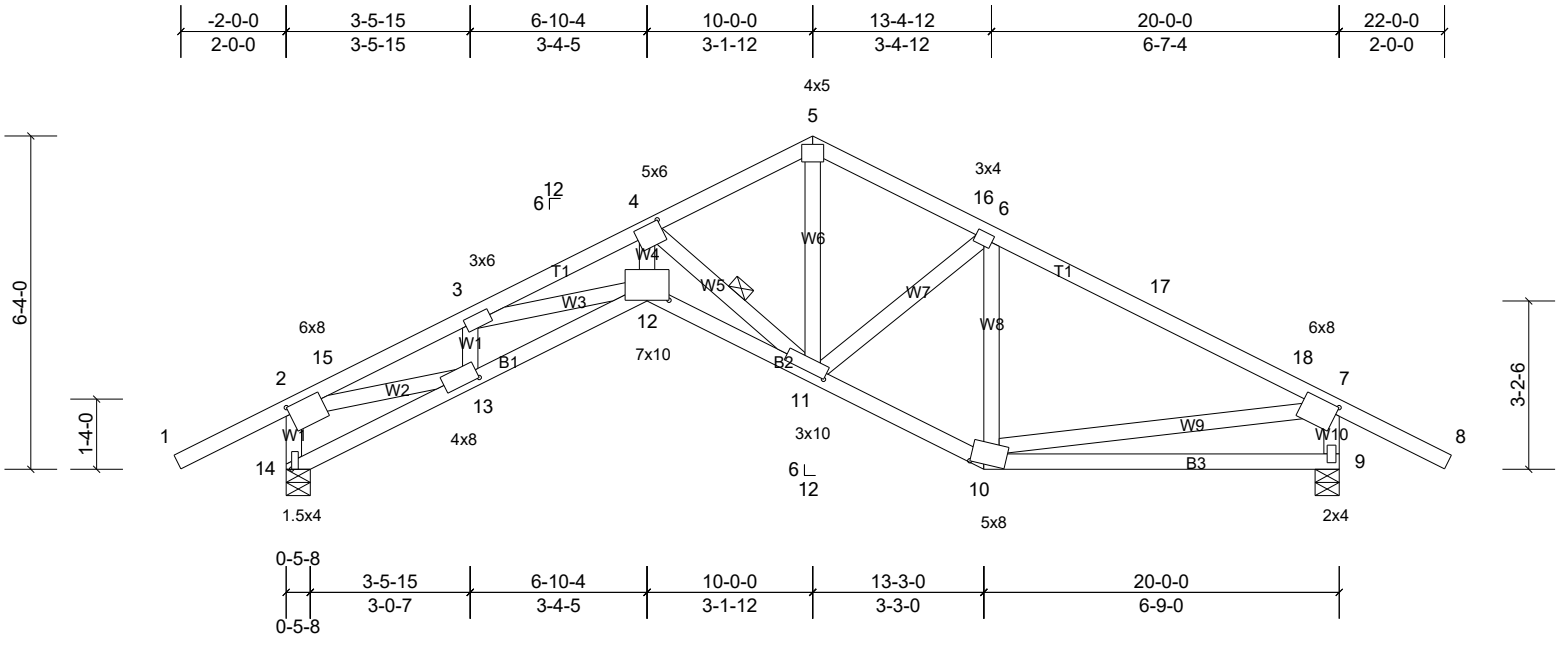
Job	Truss	Truss Type	Qty	Ply	
23-042400T	A01	Roof Special	11	1	Job Reference (optional)



Scale = 1:43.9

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [4:0-1-12,0-2-4], [7:0-3-0,0-1-12], [10:0-2-12,0-2-4], [11:0-1-9,0-1-8], [12:0-5-0,0-3-12], [13:0-3-4,0-2-0], [14:0-2-0,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	35.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.29	12	>824	360	MT20	220/195
(Roof Snow = 35.0)		Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.44	12	>543	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.37	9	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-S		Wind(LL)	0.11	12	>999	240		
BCDL	10.0										Weight: 110 lb	FT = 12%

LUMBER

TOP CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
WEBS	2x4 DF Stud *Except* W4:2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-8-13 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-11

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

REACTIONS (lb/size) 9=1283/0-5-8, (min. 0-1-8), 14=1283/0-5-8, (min. 0-1-8)
Max Horiz 14=-115 (LC 9)
Max Uplift 9=-199 (LC 12), 14=-199 (LC 11)
Max Grav 9=1368 (LC 19), 14=1374 (LC 18)

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

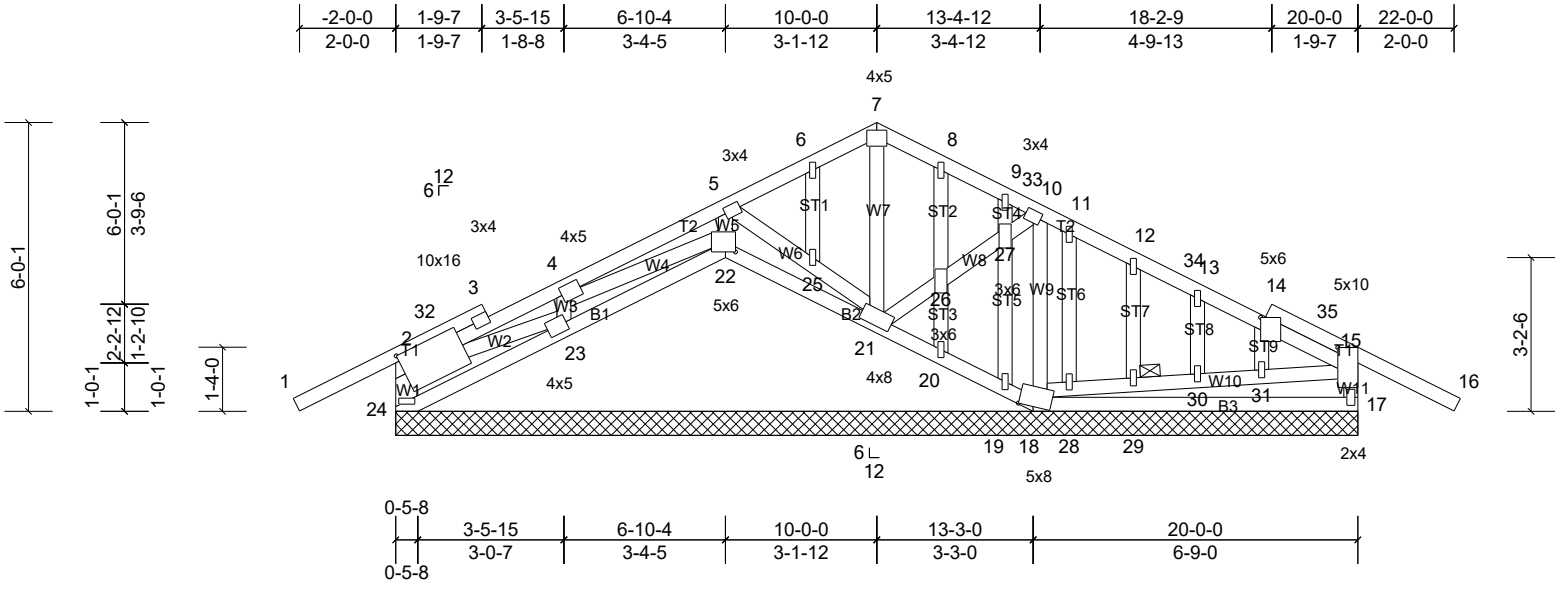
TOP CHORD	2-14=-1320/302, 2-15=-2910/353, 3-15=-2879/364, 3-4=-4471/488, 4-5=-1375/282, 5-16=-1412/287, 6-16=-1436/276, 6-17=-1338/275, 17-18=-1346/264, 7-18=-1487/254, 7-9=-1296/361
BOT CHORD	12-13=-374/2828, 11-12=-429/4355, 10-11=-79/1332
WEBS	4-11=-3662/441, 6-10=-671/105, 7-10=-120/1006, 5-11=-156/915, 6-11=-17/323, 4-12=-324/3393, 3-12=-56/1385, 3-13=-863/141, 2-13=-277/2561

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.0psf; BCDL=5.0psf; h=20ft; Ke=0.90; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-13 to 0-11-3, Interior (1) 0-11-3 to 6-10-4, Exterior(2R) 6-10-4 to 13-0-0, Interior (1) 13-0-0 to 19-0-13, Exterior(2E) 19-0-13 to 22-0-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=35.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 35.0 psf on overhangs non-concurrent with other live loads.
5) * 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.
6) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 14 and 199 lb uplift at joint 9.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
23-042400T	AG1	Roof Special	2	1	Job Reference (optional)



Scale = 1:48.1

Plate Offsets (X, Y): [2:0-3-8,0-5-0], [14:0-4-2,0-2-0], [15:0-6-0,0-1-8], [18:0-3-4,0-2-4], [22:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	35.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	220/195
(Roof Snow = 35.0)		Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-S								
BCDL	10.0										Weight: 138 lb	FT = 12%

LUMBER

TOP CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
WEBS	2x4 DF Stud *Except* W1:2x6 DF 1800F 1.6E or 2x6 DF SS
OTHERS	2x4 DF Stud

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 29

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

REACTIONS All bearings 20-0-0.
(lb) - Max Horiz 24=-105 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 18, 20, 22, 23, 24 except 17=-128 (LC 12), 19=-170 (LC 19), 21=-112 (LC 12)
Max Grav All reactions 250 (lb) or less at joint(s) 19, 20 except 17=602 (LC 19), 18=716 (LC 19), 21=499 (LC 19), 22=459 (LC 18), 23=412 (LC 18), 24=548 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-414/216, 15-17=-535/235
WEBS 10-18=-570/131, 5-22=-348/55, 4-23=-366/114

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.0psf; BCDL=5.0psf; h=20ft; Ke=0.90; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-13 to 0-11-3, Interior (1) 0-11-3 to 6-10-4, Exterior(2R) 6-10-4 to 13-0-0, Interior (1) 13-0-0 to 19-0-13, Exterior(2E) 19-0-13 to 22-0-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=35.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 35.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 1-4-0 oc.
9) * 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 18, 23, 22, 20 except (jt=lb) 17=127, 21=112, 19=170.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 21, 23, 22, 20, 19.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
23-042400T	AG1	Roof Special	2	1	Job Reference (optional)

Run: 8.63 S Jan 12 2023 Print: 8.630 S Jan 12 2023 MiTek Industries, Inc. Tue Jul 18 10:03:47 Page: 1
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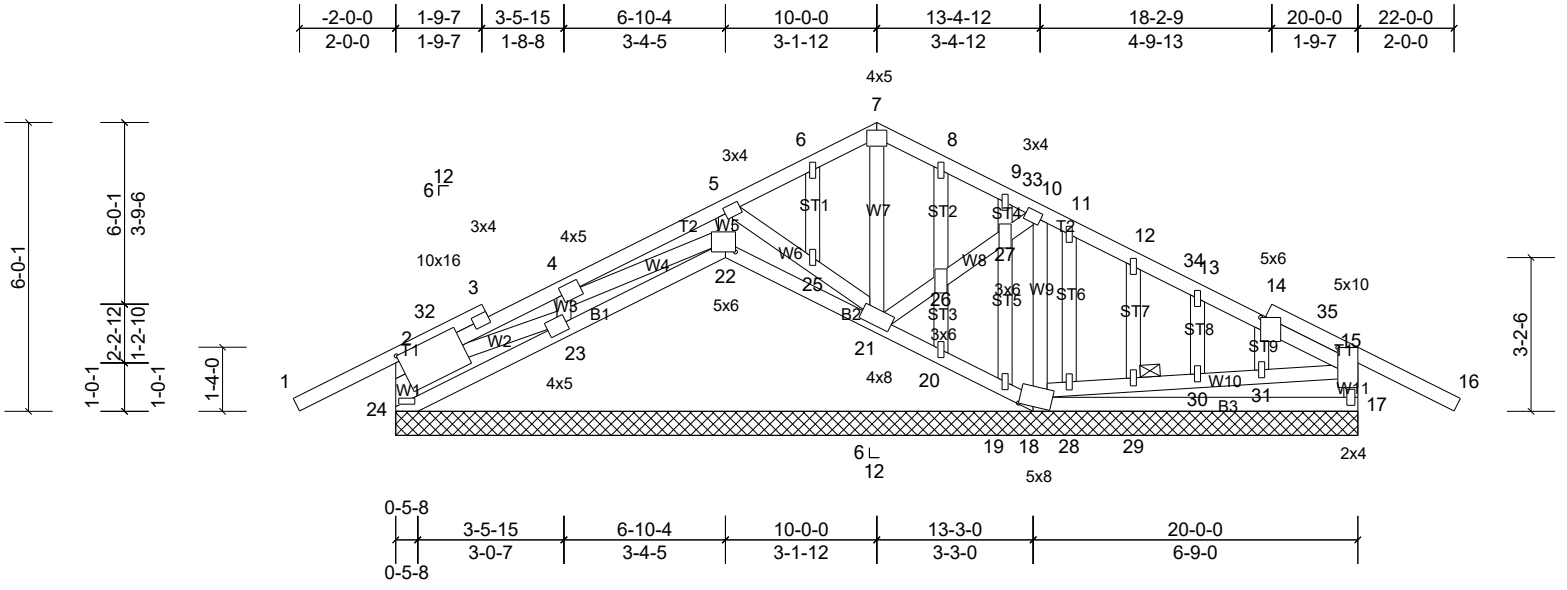

Scale = 1:48.1

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	35.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	220/195
(Roof Snow = 35.0)		Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0 *	Code	IBC2021/TPI2014	Matrix-S								
BCDL	10.0										Weight: 138 lb	FT = 12%

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TOP CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD	2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
WEBS	2x4 DF Stud *Except* W1:2x6 DF 1800F 1.6E or 2x6 DF SS
OTHERS	2x4 DF Stud

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 29

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2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
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LOAD CASE(S) Standard