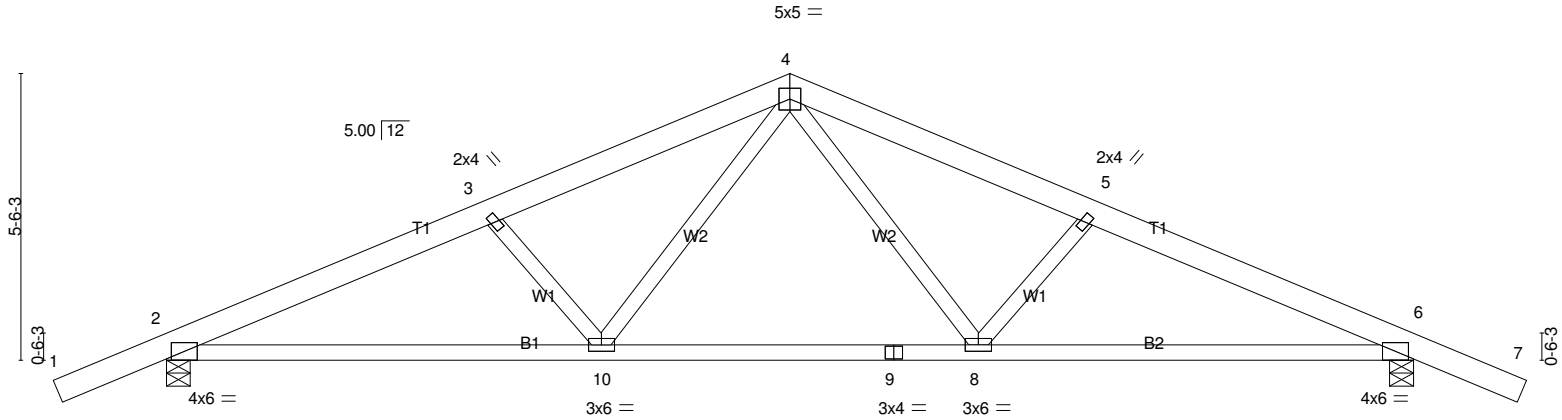
Job	Truss	Truss Type	Qty	Ply	LOVING WORKSHOP
1700205	A01	Common	11	1	Job Reference (optional)

Western Truss, Flagstaff, AZ — 8.020 s Sep 13 2016 MiTek Industries, Inc. Thu Mar 02 05:02:25 2017 Page 1

ID:lonVwOgMGBxqSoDHFUA?HjziJPd-MDh??kY6Xu9IDEB7IM1WEXujyJas5Qk1nwBpoTzf2Ui

-2-0-0	6-3-14	12-0-0	17-8-2	24-0-0	26-0-0
2-0-0	6-3-14	5-8-2	5-8-2	6-3-14	2-0-0

Scale = 1:44.3



8-4-8	15-7-8	24-0-0
8-4-8	7-3-1	8-4-8

Plate Offsets (X,Y)-- [2:0-1-2,Edge], [6:0-1-2,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.14	6-8	>999	240	MT20	169/123
(Roof Snow=40.0)		Lumber DOL	1.15	BC	0.50	Vert(TL)	-0.25	6-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.67	Horz(TL)	0.09	6	n/a	n/a		
BCLL	0.0 *	Code IRC2012/TPI2007		Matrix-SH							Weight: 100 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-6-0 oc bracing.

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

REACTIONS. (lb/size) 2=1644/0-5-8 (min. 0-2-9), 6=1644/0-5-8 (min. 0-2-9)
Max Horz 2=110(LC 14)
Max Uplift2=-549(LC 6), 6=-549(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2654/857, 3-4=-2264/827, 4-5=-2264/827, 5-6=-2654/857
BOT CHORD 2-10=-706/2315, 9-10=-408/1596, 8-9=-408/1596, 6-8=-700/2315
WEBS 4-8=-283/803, 5-8=-652/304, 4-10=-283/803, 3-10=-652/304

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; partially; MWFRS (envelope) gable end zone; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 549 lb uplift at joint 2 and 549 lb uplift at joint 6.
8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

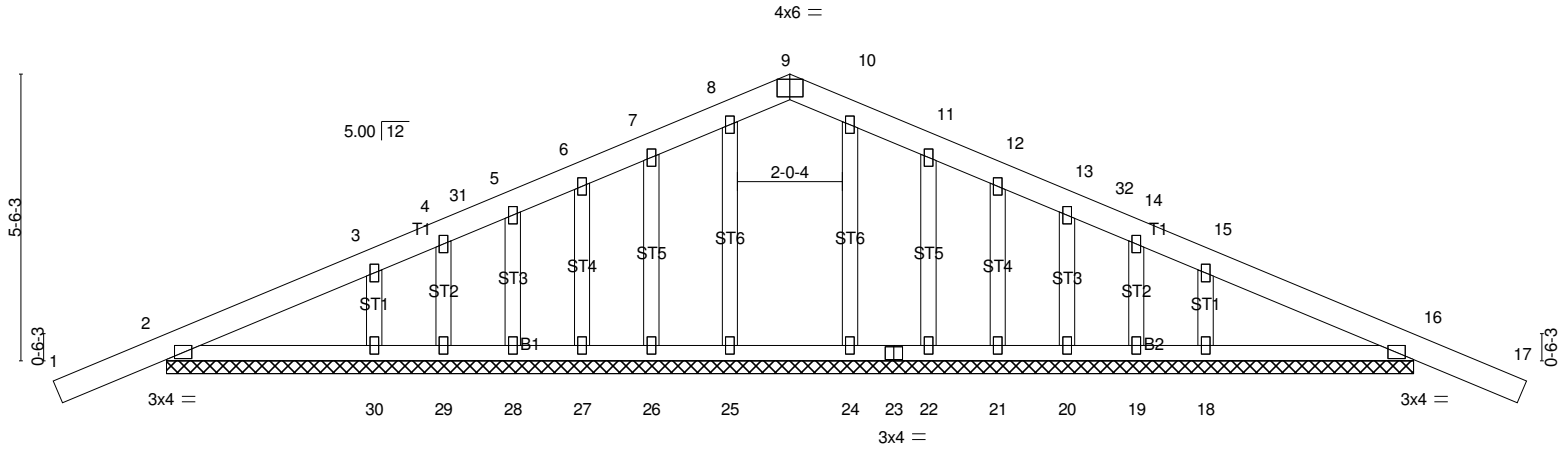
Job	Truss	Truss Type	Qty	Ply	LOVING WORKSHOP
1700205	A02	GABLE	1	1	Job Reference (optional)

Western Truss, Flagstaff, AZ — 8.020 s Sep 13 2016 MiTek Industries, Inc. Thu Mar 02 05:02:26 2017 Page 1

ID:lonVwOgMGBxqSoDHFUA?HjziJPd-qPFND4YkICH9qNmJJ3YlmkRwtj0Nq?EA0awMKvzf2Uh

-2-0-0 / 2-0-0 | 12-0-0 / 12-0-0 | 24-0-0 / 12-0-0 | 26-0-0 / 2-0-0

Scale = 1:44.3



24-0-0 / 24-0-0

Plate Offsets (X,Y)-- [2:0-2-0,0-1-6], [9:0-3-0,Edge], [16:0-2-0,0-1-6]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.13	Vert(LL)	0.01	17	n/r	120	MT20	169/123
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.10	Vert(TL)	0.01	17	n/r	120		
TCDL 10.0	Lumber DOL 1.15	WB 0.14	Horz(TL)	0.00	16	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH						Weight: 116 lb	FT = 20%
BCDL 10.0	Code IRC2012/TPI2007								

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 WW Stud/Std

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 24-0-0.
(lb) - Max Horz 2=110(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 29, 28, 27, 26, 22, 21, 20, 19 except 2=-117(LC 6), 30=-129(LC 10), 18=-127(LC 11), 16=-123(LC 7)
Max Grav All reactions 250 lb or less at joint(s) 29, 28, 27, 26, 22, 21, 20, 19 except 2=496(LC 1), 25=306(LC 3), 24=306(LC 4), 30=348(LC 1), 18=348(LC 1), 16=496(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-30=-285/168, 15-18=-285/166

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; partially; MWFRS (envelope) gable end zone; end vertical left and right exposed; porch left and right exposed; 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 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 2x4 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 29, 28, 27, 26, 22, 21 , 20, 19 except (jt=lb) 2=117, 30=129, 18=127, 16=123.
12) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard