Job	Truss	Truss Type	Qty	Ply	
B20-000974	A01	Scissor Structural Gable	2	1	Job Reference (optional)

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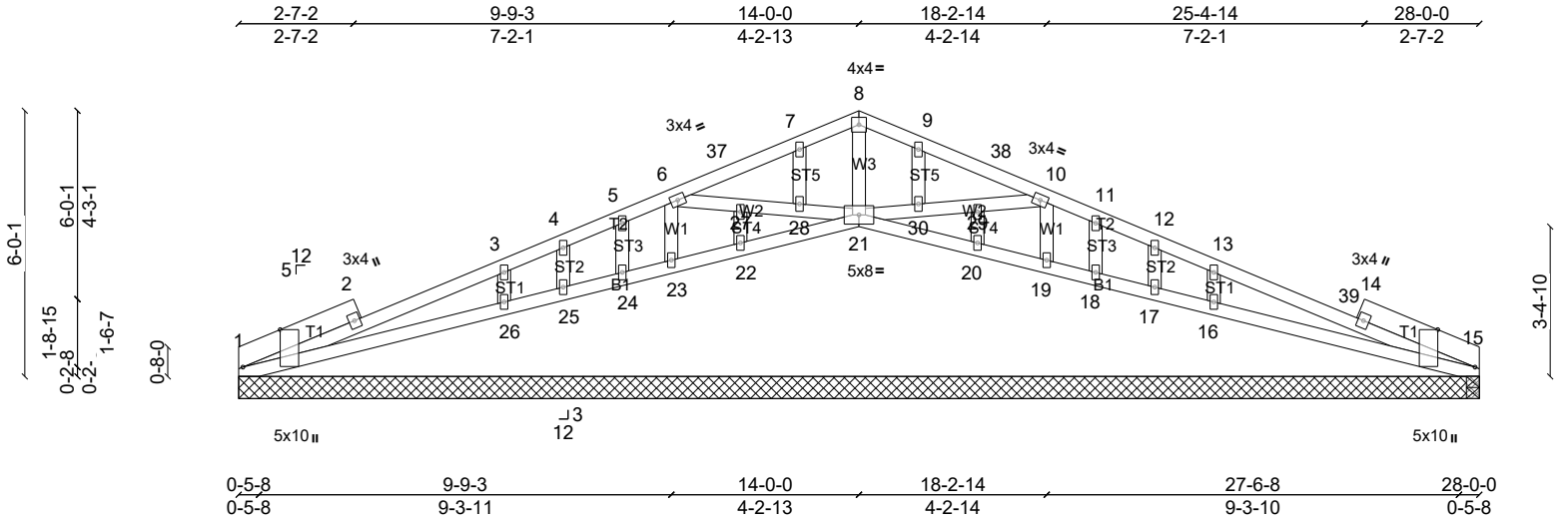


Scale = 1:52.2

Plate Offsets (X, Y): [1:0-10-3,Edge], [15:0-10-3,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.05	26-33	>999	240	MT20	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.33	Vert(TL)	-0.08	26-33	>894	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.19	Horiz(TL)	0.01	1	n/a	n/a		
BCLL	0.0	Code	IRC2012/TPI2007	Matrix-AS								
BCDL	10.0										Weight: 104 lb	FT = 10%

LUMBER

TOP CHORD	2x6 HF No.2 *Except* T2:2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 28-0-0.

(lb) - Max Horiz 1=144 (LC 12), 31=144 (LC 12)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 15, 18, 19, 20, 21, 22, 23, 24, 31, 34 except 16=-323 (LC 13), 17=-204 (LC 1), 25=-221 (LC 1), 26=-333 (LC 12)

Max Grav All reactions 250 (lb) or less at joint(s) 15, 17, 18, 20, 22, 24, 25, 34 except 1=252 (LC 18), 16=693 (LC 1), 19=263 (LC 19), 21=360 (LC 1), 23=266 (LC 18), 26=715 (LC 1), 31=252 (LC 18)

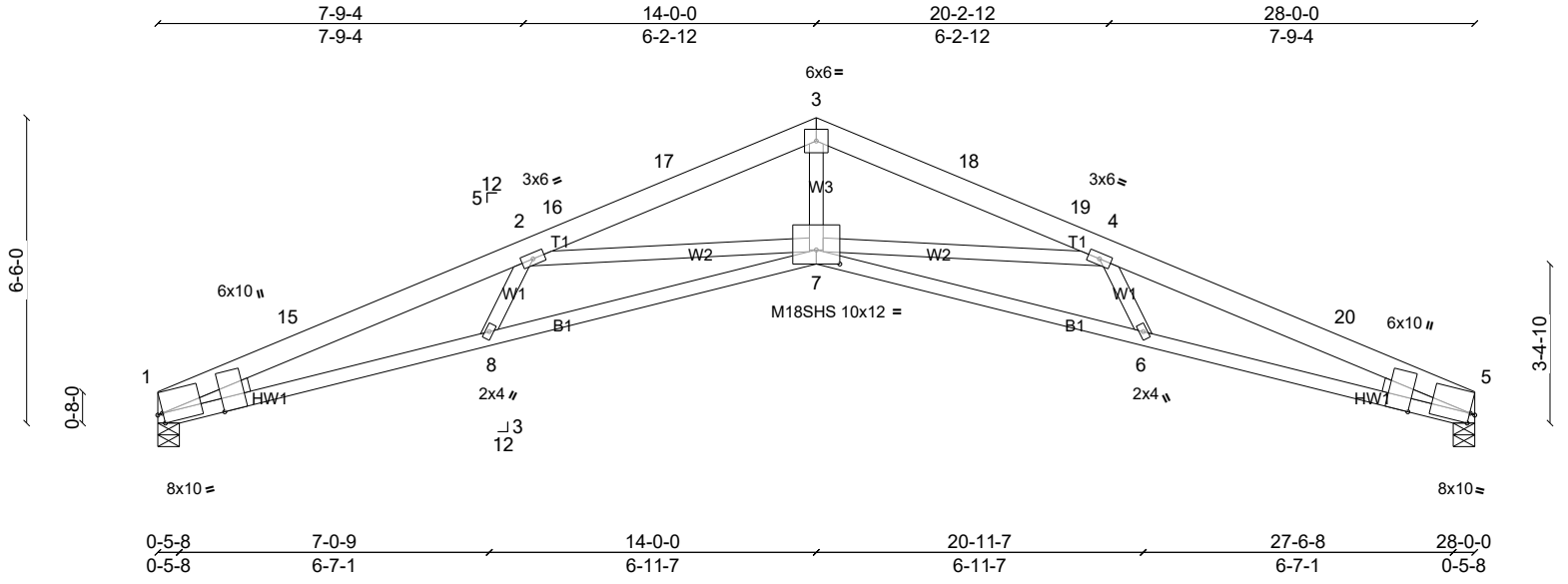
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 10-19=-254/65, 6-23=-257/88, 3-26=-488/297, 13-16=-475/292

NOTES

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 24-10-4, Exterior (2) 24-10-4 to 27-10-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 15, 21, 19, 23, 24, 22, 18, 20, 1, 15 except (jt=lb) 26=332, 25=221, 16=322, 17=203.
9) 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.
10) 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

Job	Truss	Truss Type	Qty	Ply	
B20-000974	A02	Scissor	22	1	Job Reference (optional)



Scale = 1:49.1

Plate Offsets (X, Y): [1:0-3-5,Edge], [1:0-0-3,Edge], [5:0-3-5,Edge], [5:0-0-3,Edge], [7:0-6-0,0-3-10]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.49	7-8	>686	240	MT20	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.87	Vert(TL)	-1.06	7-8	>317	180	M18SHS	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horiz(TL)	0.67	5	n/a	n/a		
BCLL	0.0	Code	IRC2012/TPI2007	Matrix-AS								
BCDL	10.0										Weight: 113 lb	FT = 10%

LUMBER

TOP CHORD	2x6 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 SPF No.2
WEDGE	Left: 2x4 SPF No.2
	Right: 2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 1=1400/0-5-8, (min. 0-2-1), 5=1400/0-5-8, (min. 0-2-1)
Max Horiz 1=152 (LC 12)
Max Uplift 1=-400 (LC 12), 5=-400 (LC 13)

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

TOP CHORD	1-15=-5012/1409, 2-15=-4871/1432, 2-16=-4113/1157, 16-17=-4074/1168, 3-17=-4037/1181, 3-18=-4037/1181, 18-19=-4074/1168, 4-19=-4113/1157, 4-20=-4871/1432, 5-20=-5011/1409
BOT CHORD	1-8=-1369/4635, 7-8=-1426/4626, 6-7=-1287/4626, 5-6=-1228/4635
WEBS	3-7=-569/2462, 4-7=-957/666, 4-6=0/269, 2-7=-957/622, 2-8=0/269

NOTES

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) V(IRC2012)=103mph; TCDL=6.0psf; BCDL=6.0psf; h=50ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 25-0-0, Exterior (2) 25-0-0 to 28-0-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) Bearing at joint(s) 1, 5 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 400 lb uplift at joint 1 and 400 lb uplift at joint 5.
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.
9) 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