Job	Truss	Truss Type	Qty	Ply	R. Wheeler/40x50
28222A	G1	GABLE	2	1	Job Reference (optional)

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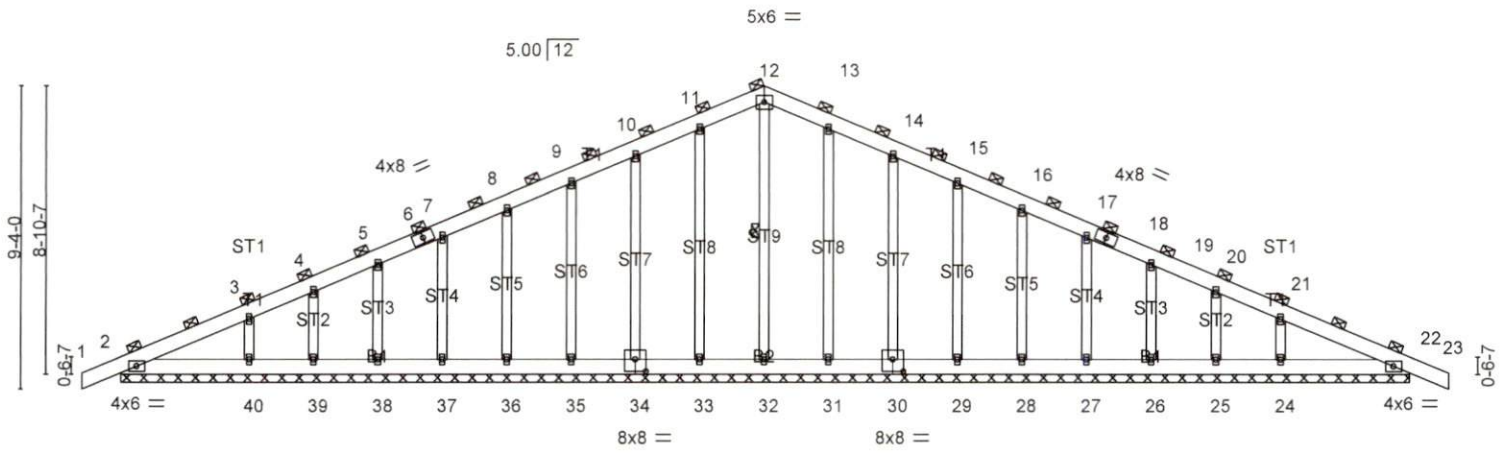
ID:2rYamNEpMDzNAD1ieTxlBBzpDjB-YO2IY_Q76qPniPRG7Q6cd5lrTL4vemFkvz3brJyNbC?

1-2-8 20-0-0 40-0-0 41-2-8

1-2-8 20-0-0 20-0-0 1-2-8

Scale = 1:68.8



40-0-0

40-0-0

Plate Offsets (X,Y)-- [30:0-4-0,0-4-8], [34:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	23	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	23	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	22	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							Weight: 314 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 12-32

REACTIONS. All bearings 40-0-0.

(lb) - Max Horz 2=-225(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 33, 34, 35, 36, 37, 38, 39, 40, 31, 30, 29, 28, 27, 26, 25, 24
Max Grav All reactions 250 lb or less at joint(s) 35, 36, 37, 38, 39, 29, 28, 27, 26, 25 except 2=299(LC 1), 22=299(LC 1), 32=272(LC 13), 33=293(LC 13), 34=292(LC 13), 40=399(LC 19), 31=286(LC 14), 30=295(LC 14), 24=399(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-40=-282/100, 21-24=-282/100

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) 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.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 33, 34, 35, 36, 37, 38, 39, 40, 31, 30, 29, 28, 27, 26, 25, 24.
10) 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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	R. Wheeler/40x50
28222A	G1	GABLE	2	1	Job Reference (optional)

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	R. Wheeler/40x50
28222A	T1	FAN	18	1	Job Reference (optional)

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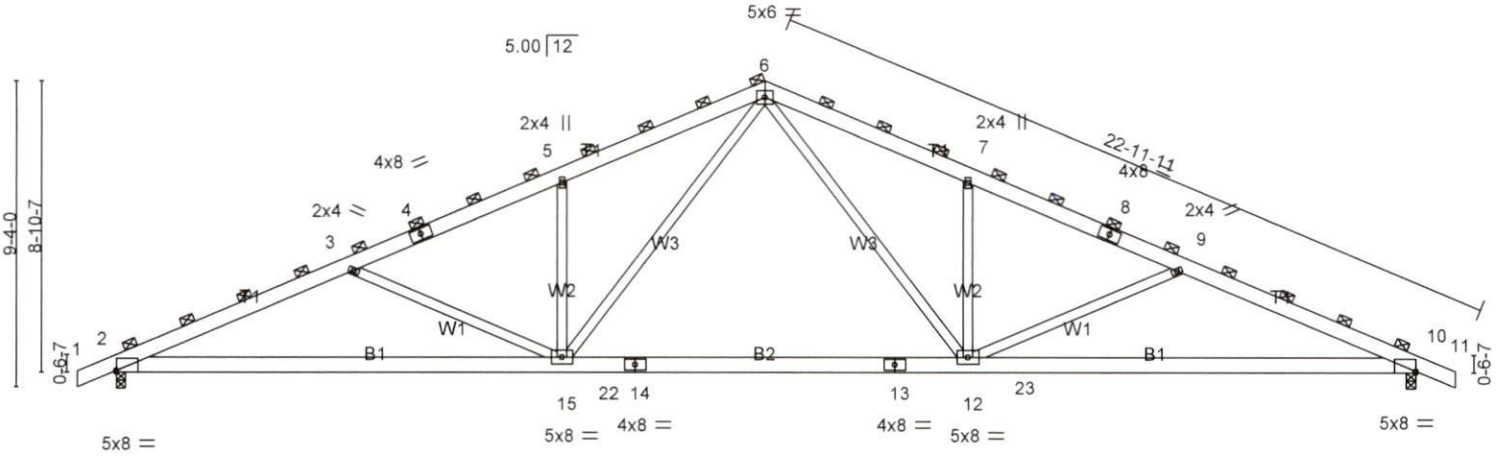
ID:2rYamNEpMDzNAD1ieTxlBBzpDjB-0ac7lKRmt8XeKZ0Sg7erAlHwelE0N4ct8dp9NlyNbC_

1-2-8	7-4-0	13-8-0	20-0-0	26-4-0	32-8-0	40-0-0	41-2-8
1-2-8	7-4-0	6-4-0	6-4-0	6-4-0	6-4-0	7-4-0	1-2-8

Scale = 1:68.2



13-8-15	26-3-1	40-0-0
13-8-15	12-6-2	13-8-15

Plate Offsets (X,Y)-- [2:Edge,0-0-8], [10:Edge,0-0-8]

LOADING (psf)		SPACING-	2-8-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.50	12-15	>964	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.72	12-15	>663	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.14	12-15	>999	240	Weight: 268 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E *Except*
B2: 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (3-3-13 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=2230/0-3-8 (min. 0-1-14), 10=2230/0-3-8 (min. 0-1-14)
Max Horz 2=-225(LC 6)
Max Uplift2=-220(LC 8), 10=-220(LC 8)
Max Grav 2=2247(LC 13), 10=2247(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4635/440, 3-4=-4042/306, 4-5=-3955/333, 5-6=-4055/457, 6-7=-4055/457, 7-8=-3955/333, 8-9=-4042/306, 9-10=-4636/440
BOT CHORD 2-15=-283/4388, 15-22=-10/2719, 14-22=-10/2719, 13-14=-10/2719, 13-23=-10/2719, 12-23=-10/2719, 10-12=-283/4221
WEBS 5-15=-525/222, 7-12=-525/222, 3-15=-758/216, 6-15=-127/1764, 6-12=-127/1763, 9-12=-758/216

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=220, 10=220.
6) 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.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard