Job	Truss	Truss Type	Qty	Ply	PhillipThorpe/8P-Bonus/Roof
Q18070884	10A	ATTIC	20	1	Job Reference (optional)

The Building Center Inc., Gastonia, NC 28052

Run: 8.220 s Jul 9 2018 Print: 8.220 s Jul 9 2018 MiTek Industries, Inc. Wed Jul 18 11:51:48 2018 Page 1
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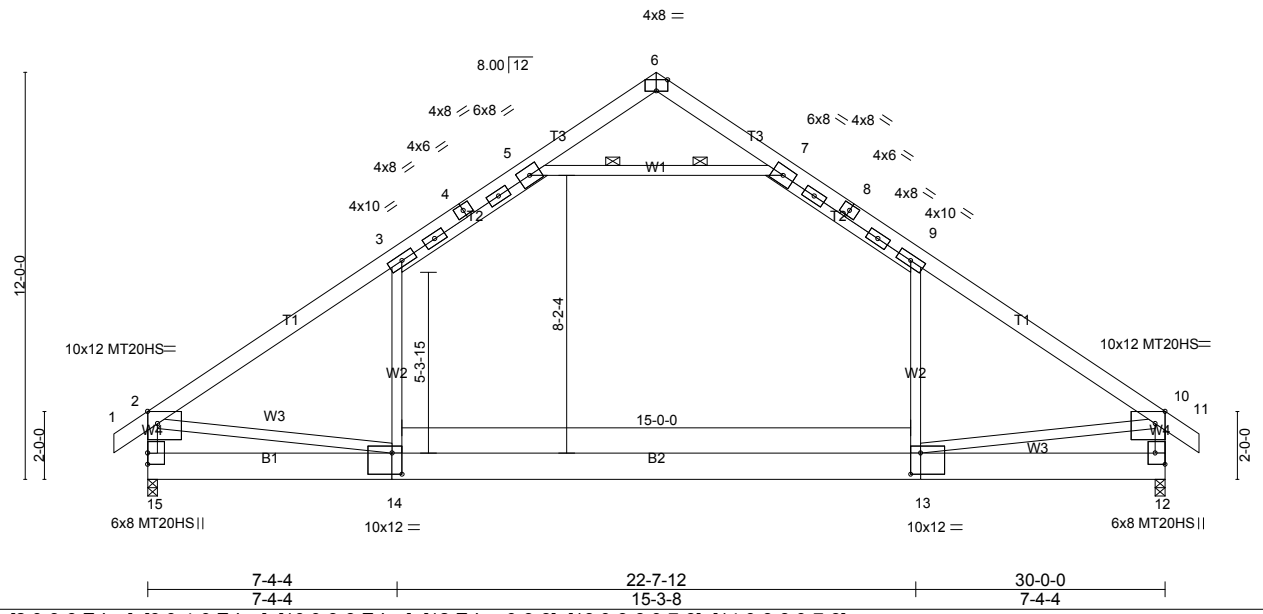
-1-0-0	7-4-4	11-5-13	15-0-0	18-6-3	22-7-12	30-0-0	31-0-0
1-0-0	7-4-4	4-1-9	3-6-3	3-6-3	4-1-9	7-4-4	1-0-0

Scale = 1:67.9



7-4-4	22-7-12	30-0-0
7-4-4	15-3-8	7-4-4

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-4-0,Edge], [10:0-3-8,Edge], [12:Edge,0-3-8], [13:0-3-8,0-7-8], [14:0-3-8,0-7-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.55	13-14	>644	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(TL)	-0.88	13-14	>404	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.02	12	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007		Matrix-AS		Attic	-0.32	13-14	587	360	Weight: 276 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP DSS *Except*
T2: 2x4 SP No.2, T1: 2x6 SP No.1
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.2 *Except*
W3: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 2 Rows at 1/3 pts 5-7

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

REACTIONS. (lb/size) 15=1334/0-3-8 (min. 0-1-11), 12=1334/0-3-8 (min. 0-1-11)
Max Horz 15=-216(LC 8)
Max Uplift 15=-66(LC 10), 12=-66(LC 11)
Max Grav 15=1685(LC 18), 12=1685(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2083/97, 3-4=-1566/174, 4-5=-1343/198, 5-6=-13/583, 6-7=-13/583, 7-8=-1342/198, 8-9=-1566/174, 9-10=-2083/97, 2-15=-1680/142, 10-12=-1680/142
BOT CHORD 14-15=-231/600, 13-14=-1/1574, 12-13=-88/441
WEBS 5-7=-2095/264, 3-14=-35/779, 9-13=-35/779, 2-14=0/1253, 10-13=0/1256

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * 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.
6) Ceiling dead load (5.0 psf) on member(s). 3-5, 7-9, 5-7
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 15 and 66 lb uplift at joint 12.
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.
11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	PhillipThorpe/8P-Bonus/Roof
Q18070884	11A	GABLE	2	1	Job Reference (optional)

The Building Center Inc., Gastonia, NC 28052 Run: 8.220 s Jul 9 2018 Print: 8.220 s Jul 9 2018 MiTek Industries, Inc. Wed Jul 18 11:51:50 2018 Page 1
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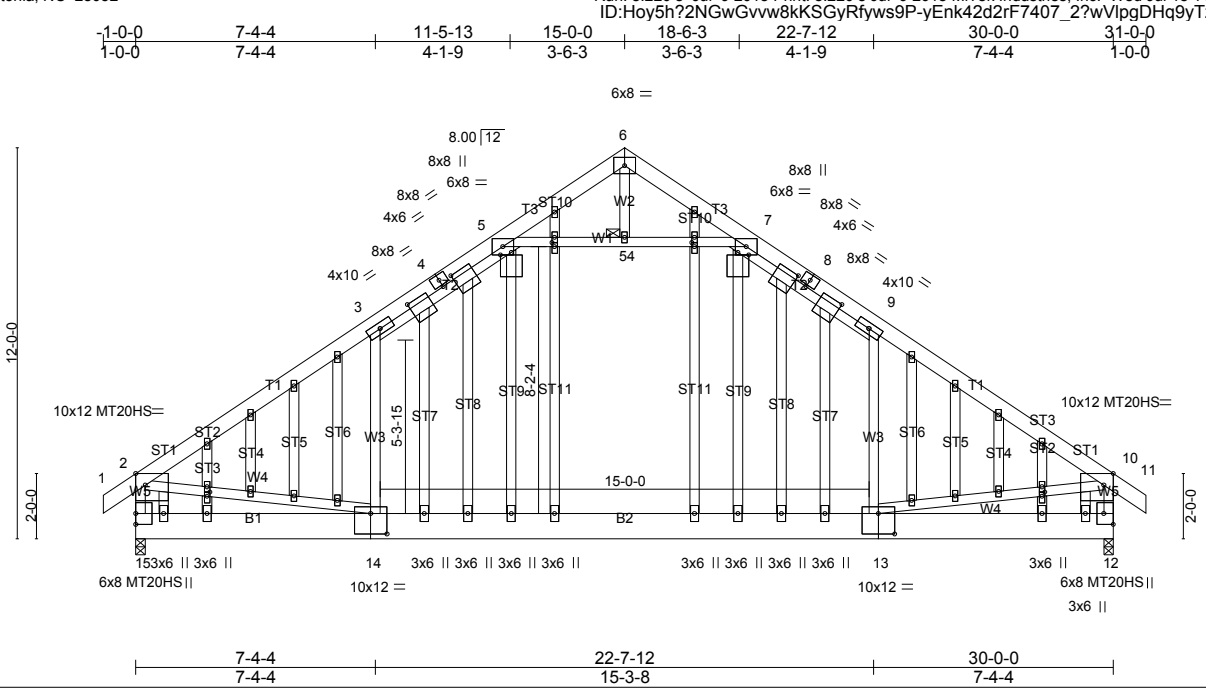

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [5:0-0-13,0-4-0], [7:0-0-13,0-4-0], [10:0-3-8,Edge], [12:Edge,0-3-8], [13:0-6-0,0-7-8], [14:0-6-0,0-7-8], [16:0-1-8,0-1-0], [21:0-4-9,0-1-12], [23:1-1-3,0-1-12], [30:0-1-9,0-1-0], [34:0-1-12,0-0-3], [37:0-1-8,0-1-0], [40:0-4-9,0-1-12], [42:1-1-3,0-1-12], [51:0-1-9,0-1-0], [53:0-1-12,0-0-3]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**	**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC 0.98	Vert(LL)	-0.55	13-14	>645	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.58	Vert(TL)	-0.88	13-14	>405	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr YES	WB 0.48	Horz(TL)	0.02	12	n/a	n/a		
BCDL	10.0	Code IRC2012/TPI2007	Matrix-AS	Attic	-0.32	13-14	587	360	Weight: 409 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP DSS *Except*
T2: 2x4 SP No.2, T1: 2x6 SP No.1
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.2 *Except*
W4,W2: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 54

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

REACTIONS. (lb/size) 15=1334/0-3-8 (min. 0-1-11), 12=1334/0-3-8 (min. 0-1-11)
Max Horz 15=-216(LC 8)
Max Uplift 15=-66(LC 10), 12=-66(LC 11)
Max Grav 15=1685(LC 18), 12=1685(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2084/97, 3-4=-1567/174, 4-5=-1343/198, 5-6=-35/494, 6-7=-35/494, 7-8=-1342/198, 8-9=-1567/174, 9-10=-2083/97, 2-15=-1681/142, 10-12=-1681/142
BOT CHORD 14-15=-231/599, 13-14=-1/1574, 12-13=-88/440
WEBS 5-54=-2022/279, 7-54=-2022/279, 3-14=-35/779, 9-13=-35/779, 2-14=0/1254, 10-13=0/1257

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V(IRC2012)=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 MT20 plates unless otherwise indicated.
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) * 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.
9) Ceiling dead load (5.0 psf) on member(s). 3-5, 7-9, 5-54, 7-54
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 15 and 66 lb uplift at joint 12.
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.
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.
14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard