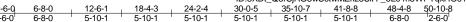
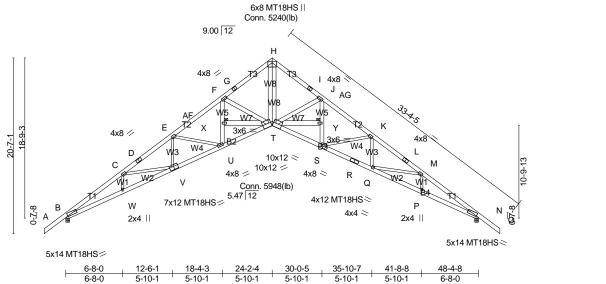


Job Reference (optional)
7.600 s Oct 3 2014 MiTek Industries, Inc. Tue Jul 14 18:14:49 2015 Page 1
ID:8XDt_Q3rSjAG3wSctwMZrlz3SiH-_6Lc4ri5WPTqxHOs1kqv2Akk2gpUpIAUOzlGsjyy4ma



6x8 MT18HS || Scale = 1:135.0



*** Design Problems *** REVIEW REQUIRED

Max Horizontal Deflection Exceeded In Span: Z-AC

TOTAL LOAD HORIZONTAL DEFLECTION LIMIT EXCEEDED. See note below

Piate Offsets (A, 1) = [B.0-5-5,0-0-4], [1.0-5-1,0-5-4], [1.0-5-1,0-5-4], [1.0-5-1,0-5-4], [1.0-5-1,0-5-4],						
LOADING (psf) TCLL 34.8 (Ground Snow=60.0) TCDL 10.0 BCLL 0.0 BCDI 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2006/TPI2002	CSI. TC 0.63 BC 0.88 WB 0.38 (Matrix-M)	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.76 T >766 240 MT20 197/144 Vert(TL) -1.42 T-U >409 180 MT18HS 197/144 Horz(TL) -1.62 B n/a n/a Weight: 351 lb FT = 20%			

LUMBER-TOP CHORD 2x6 SPF 2100F 1.8E

BOT CHORD 2x6 SPF 2100F 1.8E WEBS 2x4 SPF 1650F 1.5E *Except*

W8,W5,W7: 2x6 SPF 2100F 1.8E, W6: 2x8 SP 2400F 2.0E

BRACING-

TOP CHORD BOT CHORD JOINTS [MCT] Structural wood sheathing directly applied or 2-8-14 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Brace at Jt(s): X, Y

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

REACTIONS. (lb/size) B=2875/0-5-8 (min. 0-3-3), N=2875/0-5-8 (min. 0-3-3)

Max Horz N=-519(LC 8)

Max UpliftB=-305(LC 10), N=-305(LC 10) Max Grav B=2909(LC 15), N=2909(LC 16)

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

TOP CHORD B-C=-8280/350, C-D=-7944/250, D-E=-7864/279, E-AF=-6925/114, F-AF=-6622/152,

F-G=-5550/0, G-H=-5388/9, H-I=-5388/0, I-J=-5550/0, J-AG=-6623/152, K-AG=-6926/114,

K-L=-7876/282, L-M=-7956/253, M-N=-8276/351

BOT CHORD B-W=-90/6985, V-W=-101/7115, U-V=0/6942, T-U=0/5942, S-T=0/5943, R-S=0/6937,

Q-R=0/6898, P-Q=-101/7113, N-P=-91/6982

H-T=0/5958, E-V=-10/319, U-X=-90/737, F-X=-90/738, S-Y=-90/738, J-Y=-89/738,

K-Q=-12/323, C-V=-257/198, E-U=-943/251, F-T=-1456/292, J-T=-1457/292,

K-S=-936/253

NOTES-

WEBS

- 1) Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp C; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-05; Pg=60.0 psf (ground snow); Ps=34.8 psf (roof snow); Category II; Exp C; Partially Exp.; Ct= 1
- 3) Roof design snow load has been reduced to account for slope.
- 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 42.0 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 7) Special provisions shall be made by the building designer to allow for -0.87in of horizontal movement due to live load and -1.62in due to total load.
- 8) Total load horizontal deflection of -1.62in exceeds 1.50in at joint B.
- 9) All plates are MT20 plates unless otherwise indicated continued on page 2

Job	Truss	Truss Type	Qty	Ply	
B151222	C2-Cond1	SCISSORS	16	1	Job Reference (optional)

| Job Reterence (optional) 7.600 s Oct 3 2014 MTek Industries, Inc. Tue Jul 14 18:14:49 2015 Page 2 |ID:8XDt_Q3rSjAG3wSctwMZrlz3SiH-_6Lc4ri5WPTqxHOs1kqv2Akk2gpUpIAUOzlGsjyy4ma

NOTES-

10) All plates are 4x6 MT20 unless otherwise indicated.

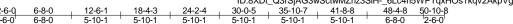
- 11) All additional member connections shall be provided by others for forces as indicated.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) Bearing at joint(s) B, N considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint B and 305 lb uplift at joint N.
 15) This truss is designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 16) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

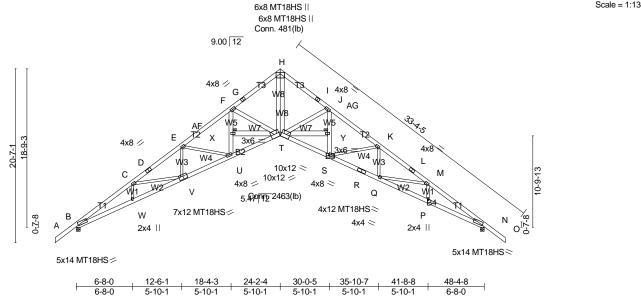
LOAD CASE(S) Standard



Job Reference (optional) 7.600 s Oct 3 2014 MiTek Industries, Inc. Tue Jul 14 18:14:49 2015 Page 1 ID:8XDt_Q3rSjAG3wSctwMZrlz3SiH-_6Lc4ri5WPTqxHOs1kqv2AkpVg_BpliUOzlGsjyy4ma



Scale = 1:136.6



*** Design Problems REVIEW REQUIRED

Max Horizontal Deflection Exceeded In Span: Z-AC

TOTAL LOAD HORIZONTAL DEFLECTION LIMIT EXCEEDED. See note below

	1017	IL LOTID HOTHLOHIT	L DEI LEG HOIT LIM	I LAGELDED.	OCC HOLD DO	1011	
Plate Offsets (X,Y) [B:0-3-9,0-0-4], [N:0-3-9,0-0-4], [T:0-5-1,0-5-4], [T:0-5-1,0-5-4], [V:0-6-0,0-4-8]							
CLL 34.8 Plate Cround Snow=60.0 CTCDL 10.0 CTCDL CTCDL	CING- 2-0-0 9 Grip DOL 1.15 DOE DOL 1.15 Stress Incr YES 9 IRC2006/TPI2002	CSI. TC 0.28 BC 0.19 WB 0.41 (Matrix-M)	DEFL. i Vert(LL) -0.1 Vert(TL) -0.1 Horz(TL) -0.0	7 V-W >999	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 351 lb	GRIP 197/144 197/144 FT = 20%

LUMBER-TOP CHORD 2x6 SPF 2100F 1.8E BOT CHORD 2x6 SPF 2100F 1.8E

WEBS 2x4 SPF 1650F 1.5E *Except*

W8,W5,W7: 2x6 SPF 2100F 1.8E, W6: 2x8 SP 2400F 2.0E

BRACING-TOP CHORD

BOT CHORD JOINTS

Structural wood sheathing directly applied or 4-9-5 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

[MCT]

1 Brace at Jt(s): X, Y

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

REACTIONS. (lb/size) B=2875/0-5-8 (min. 0-3-3), N=2875/0-5-8 (min. 0-3-3)

> Max UpliftB=-305(LC 10), N=-305(LC 10) Max Grav B=2909(LC 15), N=2909(LC 16)

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

TOP CHORD B-C=-3855/333, C-D=-2930/230, D-E=-2782/259, E-AF=-1761/94, F-AF=-1458/132,

F-G=-292/136, G-H=-31/419, H-I=-31/419, I-J=-292/136, J-AG=-1459/131,

K-AG=-1762/93, K-L=-2806/262, L-M=-2954/233, M-N=-3853/334

BOT CHORD B-W=-1959/483, V-W=-1454/497, U-V=-1927/177, T-U=-2511/438, S-T=-2511/438,

R-S=-1888/175, Q-R=-1932/156, P-Q=-1455/496, N-P=-1959/482

H-T=-803/146, E-V=-11/414, U-X=-90/772, F-X=-90/772, S-Y=-90/773, J-Y=-90/772,

K-Q=-13/427, C-V=-757/200, E-U=-1015/252, F-T=-1475/292, J-T=-1476/292,

K-S=-1010/254, M-Q=-736/198

NOTES-

WEBS

- 1) Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp C; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-05; Pg=60.0 psf (ground snow); Ps=34.8 psf (roof snow); Category II; Exp C; Partially Exp.; Ct= 1
- 3) Roof design snow load has been reduced to account for slope.
- 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 42.0 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) All plates are 4x6 MT20 unless otherwise indicated.
- 9) All additional member connections shall be provided by others for forces as indicated.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
B151222	C2-Cond2	scissors	16	1	Job Reference (optional)

| Job Reference (optional) 7.600 s Oct 3 2014 MiTek Industries, Inc. Tue Jul 14 18:14:49 2015 Page 2 ID:8XDt_Q3rSjAG3wSctwMZrlz3SiH-_6Lc4ri5WPTqxHOs1kqv2AkpVg_BpliUOzlGsjyy4ma

NOTES-

- 11) Bearing at joint(s) B, N considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint B and 305 lb uplift at joint N. 13) Non Standard bearing condition. Review required.

- 14) This truss is designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard