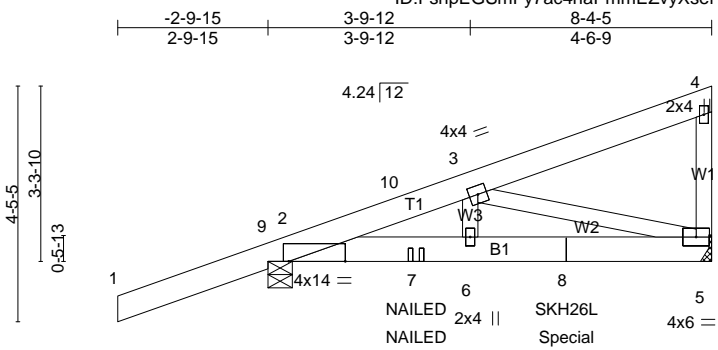


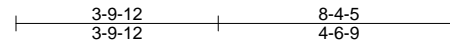
Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	CJ08	MONO TRUSS	2	1	

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:47 2015 Page 1



Scale = 1:43.4



**\*\*\* Design Problems \*\*\***  
**REVIEW REQUIRED**

Birdsmouth Heel Requires Review: 2  
This truss has birdsmouthed heels

Plate Offsets (X,Y)-- [2:1-0-12,0-0-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.61 BC 0.52 WB 0.34 (Matrix)	Vert(LL) -0.04 Vert(TL) -0.05 Horz(TL) 0.01	5-6 5-6 5	>999 >999 n/a	240 180 n/a	MT20	197/144
TCDL 7.0	Rep Stress Incr NO Code IRC2009/TPI2007							
BCLL 0.0								
BCDL 10.0								
							Weight: 44 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SPF No.2  
BOT CHORD 2x6 SPF No.2  
WEBS 2x4 SPF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 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=1001/0-5-8 (min. 0-1-11), 5=590/Mechanical  
Max Horz 2=189(LC 6)  
Max Uplift 2=-429(LC 5), 5=-146(LC 7)  
Max Grav 2=1072(LC 2), 5=707(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-10=-1104/163, 3-10=-1032/171, 4-5=-298/97  
BOT CHORD 2-7=-213/909, 6-7=-213/909, 6-8=-213/909, 5-8=-213/909  
WEBS 3-6=-40/292, 3-5=-943/191

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TC DL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; 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=46.2 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
  - 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 46.2 psf on overhangs non-concurrent with other live loads.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 429 lb uplift at joint 2 and 146 lb uplift at joint 5.
  - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 11) Use USP SKH26L (With 16d nails into Girder & NA9D nails into Truss) or equivalent at 5-7-7 from the left end to connect truss(es) J03 (1 ply 2x4 SPF) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
  - 12) Fill all nail holes where hanger is in contact with lumber.
  - 13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
  - 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

**LOAD CASE(S)**



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	CJ08	MONO TRUSS	2	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:47 2015 Page 2  
ID:FsnpEGSmFy7ac4naPmmEZvyXsef-AKqeV?kCghDehmcNhOyZESulltZuDY4f\_Lro?Oy6md6

### LOAD CASE(S)

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 2-5=-20, 1-4=-106  
Concentrated Loads (lb)  
Vert: 7=52(F=26, B=26) 8=-317(F=-158, B=-158)
- 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 2-5=-20, 1-10=-106, 4-10=-139  
Concentrated Loads (lb)  
Vert: 7=52(F=26, B=26) 8=-317(F=-158, B=-158)
- 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 2-5=-20, 1-4=-42  
Concentrated Loads (lb)  
Vert: 7=52(F=26, B=26) 8=-317(F=-158, B=-158)
- 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 2-5=-40, 1-4=-14  
Concentrated Loads (lb)  
Vert: 7=54(F=27, B=27) 8=-58(F=-29, B=-29)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 2-5=-12, 1-2=64, 2-4=43  
Horz: 1-2=-72, 2-4=-51, 4-5=27  
Concentrated Loads (lb)  
Vert: 7=19(F=10, B=10) 8=100(F=50, B=50)
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 2-5=-12, 1-2=20, 2-4=27  
Horz: 1-2=-28, 2-4=-36, 4-5=-21  
Concentrated Loads (lb)  
Vert: 7=19(F=10, B=10) 8=100(F=50, B=50)
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 2-5=-12, 1-2=64, 2-4=43  
Horz: 1-2=-72, 2-4=-51, 4-5=26  
Concentrated Loads (lb)  
Vert: 7=19(F=10, B=10) 8=100(F=50, B=50)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 2-5=-12, 1-2=20, 2-4=27  
Horz: 1-2=-28, 2-4=-36, 4-5=26  
Concentrated Loads (lb)  
Vert: 7=19(F=10, B=10) 8=100(F=50, B=50)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 2-5=-12, 1-2=41, 2-4=21  
Horz: 1-2=-50, 2-4=-29, 4-5=26  
Concentrated Loads (lb)  
Vert: 7=19(F=10, B=10) 8=100(F=50, B=50)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 2-5=-12, 1-2=7, 2-4=14  
Horz: 1-2=-15, 2-4=-23, 4-5=26  
Concentrated Loads (lb)  
Vert: 7=19(F=10, B=10) 8=100(F=50, B=50)
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 2-5=-20, 1-2=-106, 2-4=-14  
Concentrated Loads (lb)  
Vert: 7=32(F=16, B=16) 8=-44(F=-22, B=-22)
- 12) Reversal: Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 2-5=-20, 1-4=-106  
Concentrated Loads (lb)  
Vert: 7=98(F=49, B=49) 8=-44(F=-22, B=-22)
- 13) Reversal: Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 2-5=-20, 1-10=-106, 4-10=-139  
Concentrated Loads (lb)  
Vert: 7=98(F=49, B=49) 8=-44(F=-22, B=-22)
- 14) Reversal: Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 2-5=-20, 1-4=-42  
Concentrated Loads (lb)  
Vert: 7=98(F=49, B=49) 8=-44(F=-22, B=-22)
- 15) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	CJ08	MONO TRUSS	2	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:47 2015 Page 3  
 ID:FsnpEGSmFy7ac4naPmmEZvyXsef-AKqeV?kCghDehmcNhOyZEsulltZuDY4f\_Lro?Oy6md6

**LOAD CASE(S)**

- Uniform Loads (plf)
  - Vert: 2-5=-12, 1-2=64, 2-4=43
  - Horz: 1-2=-72, 2-4=-51, 4-5=27
- Concentrated Loads (lb)
  - Vert: 7=-94(F=-47, B=-47) 8=-45(F=-22, B=-22)
- 16) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 2-5=-12, 1-2=20, 2-4=27
    - Horz: 1-2=-28, 2-4=-36, 4-5=-21
  - Concentrated Loads (lb)
    - Vert: 7=-94(F=-47, B=-47) 8=-45(F=-22, B=-22)
- 17) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 2-5=-12, 1-2=64, 2-4=43
    - Horz: 1-2=-72, 2-4=-51, 4-5=26
  - Concentrated Loads (lb)
    - Vert: 7=-94(F=-47, B=-47) 8=-45(F=-22, B=-22)
- 18) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 2-5=-12, 1-2=20, 2-4=27
    - Horz: 1-2=-28, 2-4=-36, 4-5=26
  - Concentrated Loads (lb)
    - Vert: 7=-94(F=-47, B=-47) 8=-45(F=-22, B=-22)
- 19) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 2-5=-12, 1-2=41, 2-4=21
    - Horz: 1-2=-50, 2-4=-29, 4-5=26
  - Concentrated Loads (lb)
    - Vert: 7=-94(F=-47, B=-47) 8=-45(F=-22, B=-22)
- 20) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 2-5=-12, 1-2=7, 2-4=14
    - Horz: 1-2=-15, 2-4=-23, 4-5=26
  - Concentrated Loads (lb)
    - Vert: 7=-94(F=-47, B=-47) 8=-45(F=-22, B=-22)

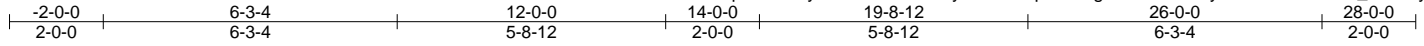


Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	H01	Hip	1	1	

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:47 2015 Page 1

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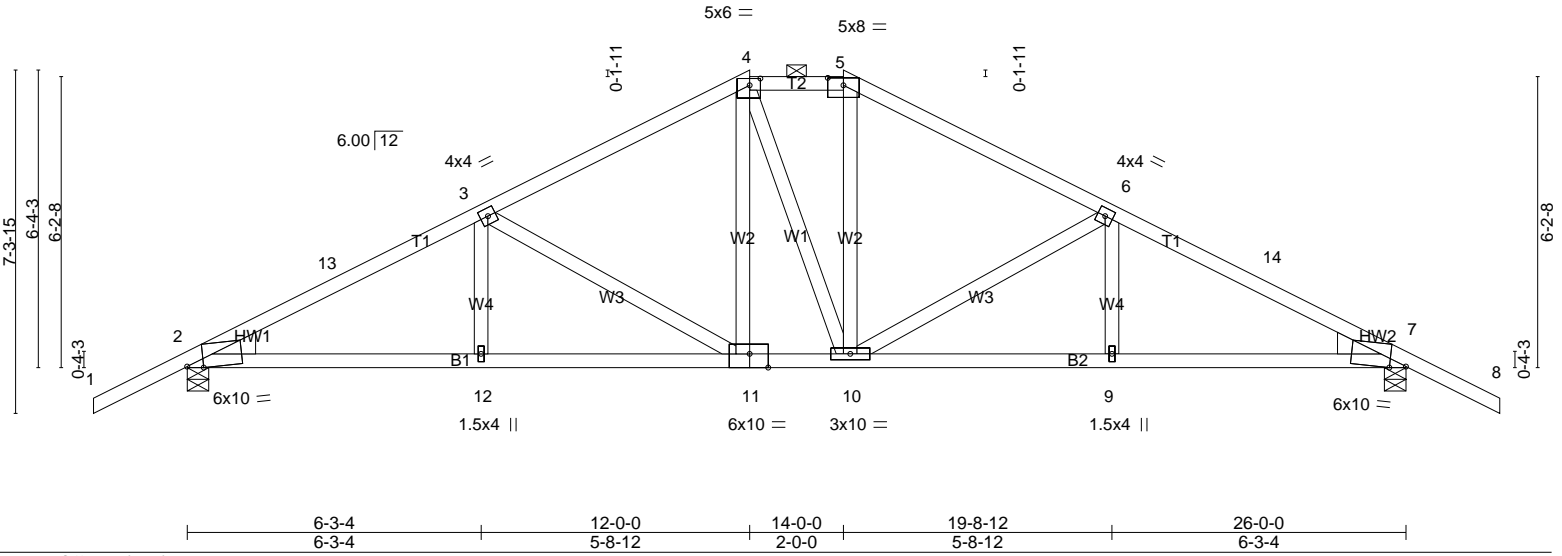


Plate Offsets (X,Y)-- [2:0-4-3,Edge], [4:0-2-12,0-1-12], [5:0-4-0,0-1-15], [7:0-4-3,Edge], [11:0-4-12,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 46.2 **	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	197/144
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.94	Vert(LL) -0.24 11-12 >999 240		
TCDL 7.0	Lumber DOL 1.15	WB 0.87	Vert(TL) -0.35 11-12 >883 180		
BCLL 0.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.15 7 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 112 lb	FT = 20%

**LUMBER-**  
**TOP CHORD** 2x4 SPF 1650F 1.5E \*Except\*  
T2: 2x4 SPF No.2  
**BOT CHORD** 2x4 SPF No.2  
**WEBS** 2x4 SPF No.2  
**WEDGE**  
Left: 2x6 SPF No.2, Right: 2x6 SPF No.2

**BRACING-**  
**TOP CHORD** Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-3-15 max.); 4-5.  
**BOT CHORD** Rigid ceiling directly applied or 2-2-0 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=1851/0-5-8 (min. 0-4-4), 7=1851/0-5-8 (min. 0-4-4)  
Max Horz2=-135(LC 8)  
Max Uplift2=-474(LC 7), 7=-474(LC 8)  
Max Grav2=2727(LC 17), 7=2727(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-13=-4068/480, 3-13=-3821/502, 3-4=-2839/410, 4-5=-2330/425, 5-6=-2859/414, 6-14=-3819/502, 7-14=-4066/481  
**BOT CHORD** 2-12=-417/3394, 11-12=-417/3394, 10-11=-182/2327, 9-10=-299/3392, 7-9=-299/3392  
**WEBS** 3-12=0/259, 3-11=-1219/268, 4-11=-89/664, 4-10=-330/335, 5-10=-93/672, 6-10=-1203/267, 6-9=0/255

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; 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= varies (min. roof snow=46.2 psf) see load cases; Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
  - 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 46.2 psf on overhangs non-concurrent with other live loads.
  - 6) Provide adequate drainage to prevent water ponding.
  - 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 474 lb uplift at joint 2 and 474 lb uplift at joint 7.
  - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)**  
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-106, 4-5=-106, 5-8=-106, 2-7=-20

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	H01	Hip	1	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:48 2015 Page 2  
 ID:FsnpEGSmFy7ac4naPmmEZvyXsef-eXO1jLkqR?LUJwBZE6Ton3Rs0Hpdyt6pC?bLYry6md5

**LOAD CASE(S)**

- 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-106, 3-4=-139, 4-5=-139, 5-8=-42, 2-7=-20
- 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-139, 5-6=-139, 6-8=-106, 2-7=-20
- 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-4=-14, 4-5=-14, 5-8=-14, 2-7=-40
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=27, 2-4=7, 4-5=43, 5-7=23, 7-8=16, 2-7=-12  
 Horz: 1-2=-36, 2-4=-15, 5-7=31, 7-8=24
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=16, 2-4=23, 4-5=43, 5-7=7, 7-8=27, 2-7=-12  
 Horz: 1-2=-24, 2-4=-31, 5-7=15, 7-8=36
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=64, 2-4=43, 4-5=27, 5-7=27, 7-8=20, 2-7=-12  
 Horz: 1-2=-72, 2-4=-51, 5-7=36, 7-8=28
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=20, 2-4=27, 4-5=27, 5-7=43, 7-8=64, 2-7=-12  
 Horz: 1-2=-28, 2-4=-36, 5-7=51, 7-8=72
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=41, 2-4=21, 4-5=14, 5-7=14, 7-8=7, 2-7=-12  
 Horz: 1-2=-50, 2-4=-29, 5-7=23, 7-8=15
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=7, 2-4=14, 4-5=14, 5-7=21, 7-8=41, 2-7=-12  
 Horz: 1-2=-15, 2-4=-23, 5-7=29, 7-8=50
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-106, 2-4=-14, 4-5=-14, 5-7=-14, 7-8=-106, 2-7=-20
- 12) 3rd Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-139, 5-8=-42, 2-7=-20
- 13) 4th Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-13=-106, 4-13=-142, 4-5=-42, 5-8=-42, 2-7=-20
- 14) 5th Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-139, 5-8=-42, 2-7=-20
- 15) 6th Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-42, 5-14=-142, 8-14=-106, 2-7=-20
- 16) 7th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-174, 5-8=-42, 2-7=-20
- 17) 8th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-174, 4-5=-42, 5-8=-174, 2-7=-20

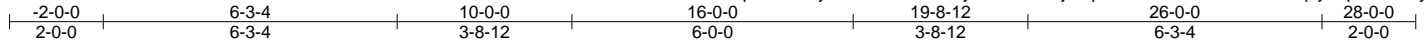


Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	H02	Hip	1	1	

Mainly Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:48 2015 Page 1

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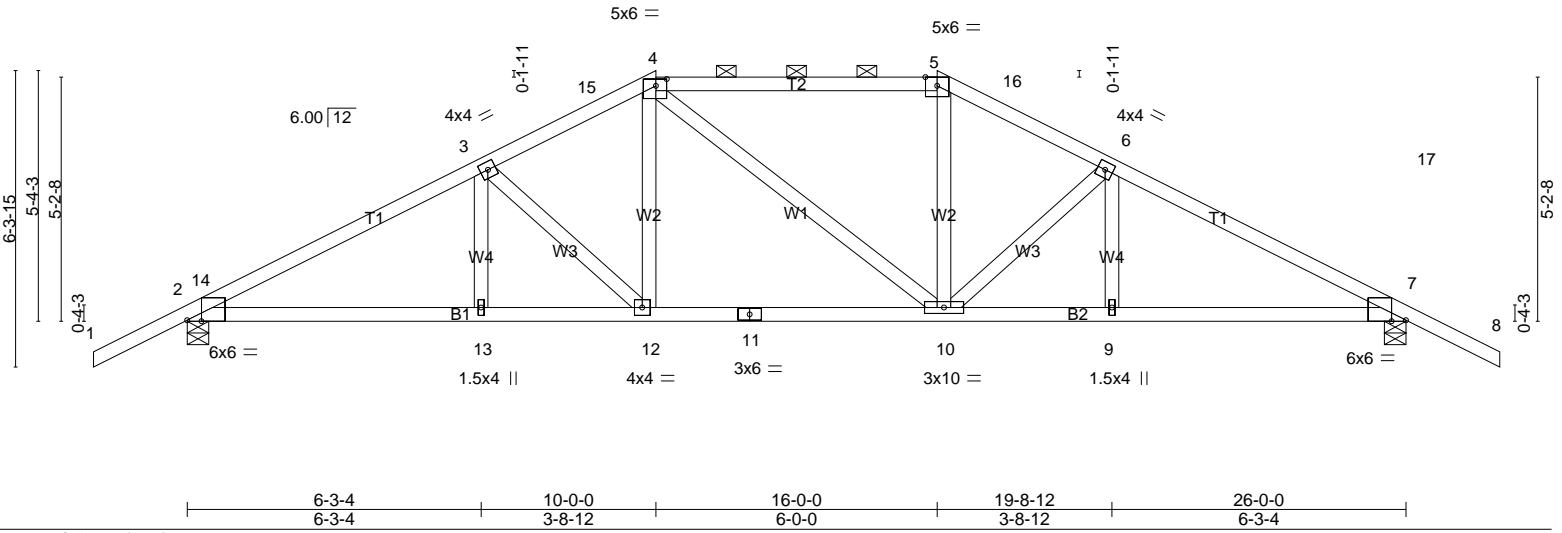


Plate Offsets (X,Y)-- [2:0-3-11,Edge], [4:0-2-12,0-1-12], [7:0-3-11,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 **	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	197/144
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.18 10-12 >999 240		
TCDL 7.0	Lumber DOL 1.15	WB 0.35	Vert(TL) -0.32 10-12 >962 180		
BCLL 0.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.12 7 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007			Weight: 106 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF 1650F 1.5E \*Except\*  
 T2: 2x4 SP 2400F 2.0E  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins, except 2-0-0 oc purlins (2-11-6 max.); 4-5.  
 BOT CHORD Rigid ceiling directly applied or 9-9-2 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=1851/0-5-8 (min. 0-3-14), 7=1851/0-5-8 (min. 0-3-14)  
 Max Horz 2=120(LC 7)  
 Max Uplift 2=459(LC 7), 7=459(LC 8)  
 Max Grav 2=2464(LC 17), 7=2464(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-14=-3461/439, 3-14=-3430/463, 3-15=-2596/419, 4-15=-2404/432, 4-5=-2156/420,  
 5-16=-2406/432, 6-16=-2598/420, 6-17=-3430/463, 7-17=-3461/439  
 BOT CHORD 2-13=-361/2844, 12-13=-361/2844, 11-12=-213/2154, 10-11=-213/2154, 9-10=-261/2844,  
 7-9=-261/2844  
 WEBS 3-12=-894/195, 4-12=-72/693, 4-10=-295/299, 5-10=-48/694, 6-10=-891/196

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; 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= varies (min. roof snow=46.2 psf) see load cases; Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
  - 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 46.2 psf on overhangs non-concurrent with other live loads.
  - 6) Provide adequate drainage to prevent water ponding.
  - 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 459 lb uplift at joint 2 and 459 lb uplift at joint 7.
  - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)**

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-106, 4-5=-106, 5-8=-106, 2-7=-20
- 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	H02	Hip	1	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:48 2015 Page 2  
 ID:FspnEGSmFy7ac4naPmmEZvyXsef-eXO1jLkqR?LUJwBZE6Ton3Rs0Hqky?6pC?bLYry6md5

**LOAD CASE(S)**

- Uniform Loads (plf)  
 Vert: 1-15=-106, 4-15=-136, 4-5=-136, 5-8=-42, 2-7=-20
- 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-136, 5-16=-136, 8-16=-106, 2-7=-20
- 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-4=-14, 4-5=-14, 5-8=-14, 2-7=-40
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=27, 2-4=7, 4-5=43, 5-7=23, 7-8=16, 2-7=-12  
 Horz: 1-2=-36, 2-4=-15, 5-7=31, 7-8=24
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=16, 2-4=23, 4-5=43, 5-7=7, 7-8=27, 2-7=-12  
 Horz: 1-2=-24, 2-4=-31, 5-7=15, 7-8=36
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=64, 2-4=43, 4-5=27, 5-7=27, 7-8=20, 2-7=-12  
 Horz: 1-2=-72, 2-4=-51, 5-7=36, 7-8=28
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=20, 2-4=27, 4-5=27, 5-7=43, 7-8=64, 2-7=-12  
 Horz: 1-2=-28, 2-4=-36, 5-7=51, 7-8=72
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=41, 2-4=21, 4-5=14, 5-7=14, 7-8=7, 2-7=-12  
 Horz: 1-2=-50, 2-4=-29, 5-7=23, 7-8=15
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=7, 2-4=14, 4-5=14, 5-7=21, 7-8=41, 2-7=-12  
 Horz: 1-2=-15, 2-4=-23, 5-7=29, 7-8=50
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-106, 2-4=-14, 4-5=-14, 5-7=-14, 7-8=-106, 2-7=-20
- 12) 3rd Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-136, 5-8=-42, 2-7=-20
- 13) 4th Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-14=-106, 4-14=-145, 4-5=-42, 5-8=-42, 2-7=-20
- 14) 5th Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-136, 5-8=-42, 2-7=-20
- 15) 6th Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-42, 5-17=-145, 8-17=-106, 2-7=-20
- 16) 7th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-174, 5-8=-42, 2-7=-20
- 17) 8th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-174, 4-5=-42, 5-8=-174, 2-7=-20

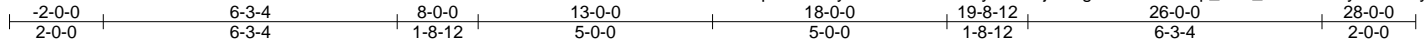


Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	H03	Hip	1	1	

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:49 2015 Page 1

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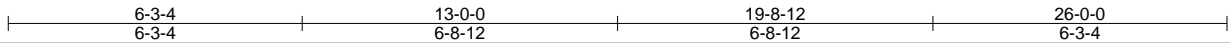
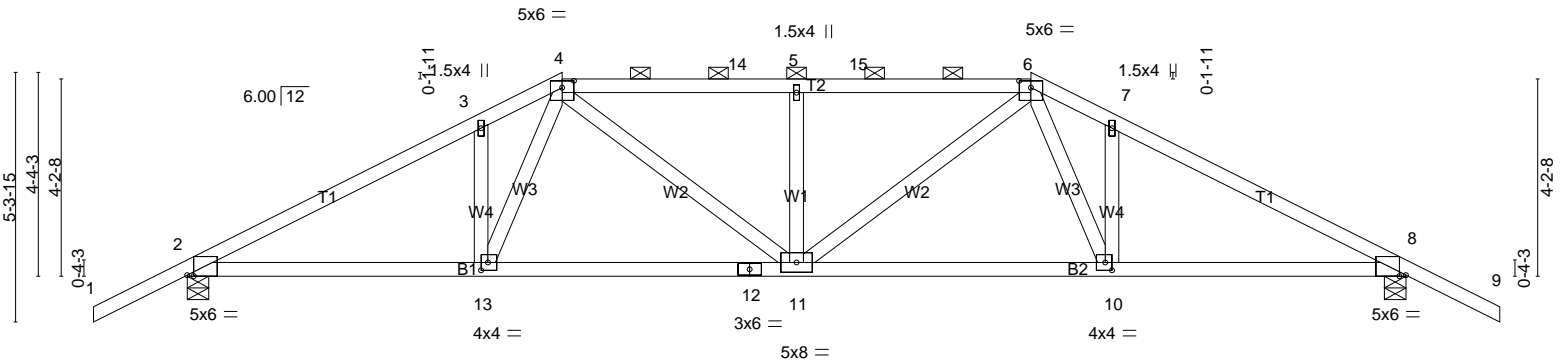


Plate Offsets (X, Y)-- [2:0-1-11,Edge], [4:0-3-0,0-1-12], [6:0-3-0,0-1-12], [8:0-1-11,Edge], [10:0-1-12,0-2-0], [13:0-1-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2 ** (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 1.00 BC 0.75 WB 0.30 (Matrix)	Vert(LL) -0.21 Vert(TL) -0.34 Horz(TL) 0.11	11 10-11 8	>999 >915 n/a	240 180 n/a	MT20	197/144
TCDL 7.0	Rep Stress Incr YES							
BCLL 0.0	Code IRC2009/TPI2007							
BCDL 10.0							Weight: 101 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-0 max.): 4-6.  
 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.** (lb/size) 2=1851/0-5-8 (min. 0-3-7), 8=1851/0-5-8 (min. 0-3-7)  
 Max Horz 2=104(LC 7)  
 Max Uplift 2=441(LC 7), 8=441(LC 8)  
 Max Grav 2=2200(LC 17), 8=2200(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2906/418, 3-4=-2748/529, 4-14=-3119/476, 5-14=-3125/475, 5-15=-3125/475,  
 6-15=-3119/476, 6-7=-2748/530, 7-8=-2906/419  
 BOT CHORD 2-13=-320/2409, 12-13=-302/2360, 11-12=-302/2360, 10-11=-249/2360, 8-10=-267/2409  
 WEBS 3-13=-737/236, 7-10=-737/236, 4-11=-186/969, 5-11=-1072/260, 6-11=-186/969,  
 4-13=-168/968, 6-10=-169/968

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TC DL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; 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= varies (min. roof snow=46.2 psf) see load cases; Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
  - 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 46.2 psf on overhangs non-concurrent with other live loads.
  - 6) Provide adequate drainage to prevent water ponding.
  - 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 441 lb uplift at joint 2 and 441 lb uplift at joint 8.
  - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)**

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-106, 4-6=-106, 6-9=-106, 2-8=-20
- 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 2





Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	H03	Hip	1	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:49 2015 Page 2  
ID:FsnpEGSmFy7ac4naPmmEZvyXsef-6jxPwglSCIULx4mlop\_1JH\_?nhBohT9yRfKv4Hy6md4

### LOAD CASE(S)

- Uniform Loads (plf)  
Vert: 1-4=-106, 4-14=-106, 6-14=-132, 6-9=-42, 2-8=-20
- 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-42, 4-15=-132, 6-15=-106, 6-9=-106, 2-8=-20
- 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-14, 4-6=-14, 6-9=-14, 2-8=-40
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-4=7, 4-6=43, 6-8=23, 8-9=16, 2-8=-12  
Horz: 1-2=-36, 2-4=-15, 6-8=31, 8-9=24  
Drag: 4-5=1, 5-6=-1
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=16, 2-4=23, 4-6=43, 6-8=7, 8-9=27, 2-8=-12  
Horz: 1-2=-24, 2-4=-31, 6-8=15, 8-9=36  
Drag: 4-5=1, 5-6=-1
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=64, 2-4=43, 4-6=27, 6-8=27, 8-9=20, 2-8=-12  
Horz: 1-2=-72, 2-4=-51, 6-8=36, 8-9=28  
Drag: 4-5=0, 5-6=-0
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=20, 2-4=27, 4-6=27, 6-8=43, 8-9=64, 2-8=-12  
Horz: 1-2=-28, 2-4=-36, 6-8=51, 8-9=72  
Drag: 4-5=0, 5-6=-0
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=41, 2-4=21, 4-6=14, 6-8=14, 8-9=7, 2-8=-12  
Horz: 1-2=-50, 2-4=-29, 6-8=23, 8-9=15  
Drag: 4-5=0, 5-6=-0
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=7, 2-4=14, 4-6=14, 6-8=21, 8-9=41, 2-8=-12  
Horz: 1-2=-15, 2-4=-23, 6-8=29, 8-9=50  
Drag: 4-5=0, 5-6=-0
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-106, 2-4=-14, 4-6=-14, 6-8=-14, 8-9=-106, 2-8=-20
- 12) 3rd Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-42, 4-14=-106, 6-14=-132, 6-9=-42, 2-8=-20
- 13) 4th Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-147, 4-6=-42, 6-9=-42, 2-8=-20
- 14) 5th Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-42, 4-15=-132, 6-15=-106, 6-9=-42, 2-8=-20
- 15) 6th Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-42, 4-6=-42, 6-9=-147, 2-8=-20
- 16) 7th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-42, 4-6=-174, 6-9=-42, 2-8=-20
- 17) 8th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-174, 4-6=-42, 6-9=-174, 2-8=-20

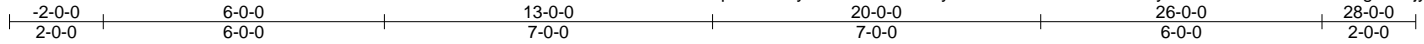


Job B156837	Truss H04GI	Truss Type Hip Girder	Qty 1	Ply 2	CIAMPI Job Reference (optional)
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Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:50 2015 Page 1

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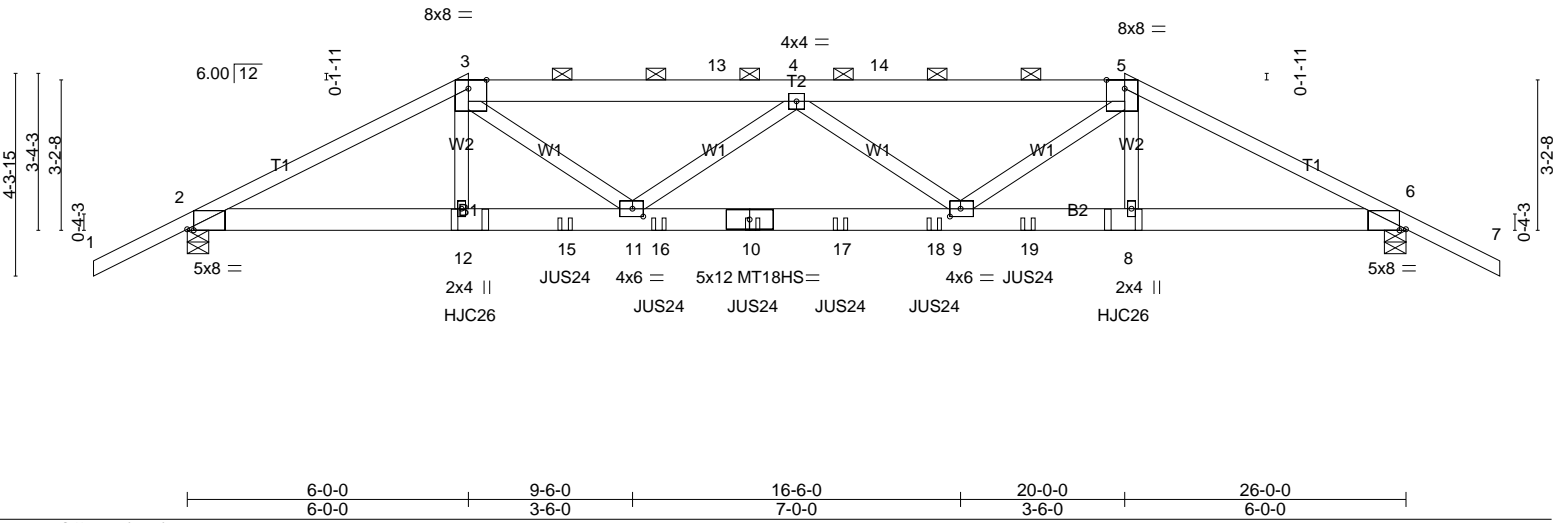


Plate Offsets (X,Y)-- [2:0-1-11,Edge], [3:0-4-10,Edge], [5:0-4-10,Edge], [6:0-1-11,Edge], [9:0-2-12,0-2-0], [11:0-2-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 46.2 ** (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.86 BC 0.84 WB 0.41 (Matrix)	in (loc) l/defl L/d Vert(LL) -0.36 9-11 >855 240 Vert(TL) -0.50 9-11 >614 180 Horz(TL) 0.11 6 n/a n/a	MT20 MT18HS	197/144 197/144
TCDL 7.0	Rep Stress Incr NO				
BCLL 0.0	Code IRC2009/TPI2007				
BCDL 10.0				Weight: 235 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* T2: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins, except 2-0-0 oc purlins (4-1-7 max.): 3-5.
BOT CHORD 2x6 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	

**REACTIONS.** (lb/size) 2=3982/0-5-8 (min. 0-3-3), 6=3980/0-5-8 (min. 0-3-3)  
 Max Horz 2=-90(LC 21)  
 Max Uplift 2=-929(LC 7), 6=-928(LC 8)  
 Max Grav 2=4066(LC 17), 6=4064(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-8218/1655, 3-13=-9877/1981, 4-13=-9887/1980, 4-14=-9880/1979, 5-14=-9869/1980,  
 5-6=-8214/1655  
 BOT CHORD 2-12=-1435/7321, 12-15=-1426/7270, 11-15=-1426/7270, 11-16=-2140/10952,  
 10-16=-2140/10952, 10-17=-2140/10952, 17-18=-2140/10952, 9-18=-2140/10952,  
 9-19=-1391/7266, 8-19=-1391/7266, 6-8=-1401/7318  
 WEBS 3-12=-185/1054, 5-8=-185/1056, 3-11=-678/3361, 4-11=-1368/351, 4-9=-1378/354,  
 5-9=-677/3356

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-05; 100mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - \*\* TCLL: ASCE 7-05; Pg=60.0 psf (ground snow); Ps= varies (min. roof snow=46.2 psf) see load cases; Category II; Exp C; Partially Exp.; Ct=1.1, Lu=50-0-0
  - Roof design snow load has been reduced to account for slope.
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 46.2 psf on overhangs non-concurrent with other live loads.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 929 lb uplift at joint 2 and 928 lb uplift at joint 6.
  - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	H04GI	Hip Girder	1	2	Job Reference (optional)

Mainly Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:51 2015 Page 2  
ID:FsnpEGSmFy7ac4naPmmEZyXsef-3639LMnikwk3AOw8wE1VPi3NUUrt9LyFvzp78Ay6md2

#### NOTES-

- 15) Use USP HJC26 (With 16d nails into Girder & 10d nails into Truss) or equivalent spaced at 13-11-4 oc max. starting at 6-0-6 from the left end to 19-11-10 to connect truss(es) J06 (1 ply 2x4 SPF), CJ08 (1 ply 2x6 SPF), J06 (1 ply 2x4 SPF), CJ08 (1 ply 2x6 SPF) to back face of bottom chord.
- 16) Use USP JUS24 (With 10d nails into Girder & 10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 17-11-4 to connect truss(es) J06 (1 ply 2x4 SPF) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.

#### LOAD CASE(S)

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-106, 3-5=-106, 5-7=-106, 2-6=-20  
Concentrated Loads (lb)  
Vert: 10=-363(B) 12=-1041(B) 8=-1041(B) 15=-363(B) 16=-363(B) 17=-363(B) 18=-363(B) 19=-363(B)
- 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-106, 3-14=-106, 5-14=-128, 5-7=-42, 2-6=-20  
Concentrated Loads (lb)  
Vert: 10=-363(B) 12=-1041(B) 8=-1041(B) 15=-363(B) 16=-363(B) 17=-363(B) 18=-363(B) 19=-363(B)
- 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-42, 3-13=-128, 5-13=-106, 5-7=-106, 2-6=-20  
Concentrated Loads (lb)  
Vert: 10=-363(B) 12=-1041(B) 8=-1041(B) 15=-363(B) 16=-363(B) 17=-363(B) 18=-363(B) 19=-363(B)
- 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-14, 3-5=-14, 5-7=-14, 2-6=-40  
Concentrated Loads (lb)  
Vert: 10=-106(B) 12=-266(B) 8=-266(B) 15=-106(B) 16=-106(B) 17=-106(B) 18=-106(B) 19=-106(B)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-3=7, 3-5=43, 5-6=23, 6-7=16, 2-6=-12  
Horz: 1-2=-36, 2-3=-15, 5-6=31, 6-7=24  
Drag: 3-4=1, 4-5=-1  
Concentrated Loads (lb)  
Vert: 10=85(B) 12=252(B) 8=252(B) 15=85(B) 16=85(B) 17=85(B) 18=85(B) 19=85(B)
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=16, 2-3=23, 3-5=43, 5-6=7, 6-7=27, 2-6=-12  
Horz: 1-2=-24, 2-3=-31, 5-6=15, 6-7=36  
Drag: 3-4=1, 4-5=-1  
Concentrated Loads (lb)  
Vert: 10=85(B) 12=252(B) 8=252(B) 15=85(B) 16=85(B) 17=85(B) 18=85(B) 19=85(B)
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=64, 2-3=43, 3-5=27, 5-6=27, 6-7=20, 2-6=-12  
Horz: 1-2=-72, 2-3=-51, 5-6=36, 6-7=28  
Drag: 3-4=1, 4-5=-1  
Concentrated Loads (lb)  
Vert: 10=85(B) 12=252(B) 8=252(B) 15=85(B) 16=85(B) 17=85(B) 18=85(B) 19=85(B)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=20, 2-3=27, 3-5=27, 5-6=43, 6-7=64, 2-6=-12  
Horz: 1-2=-28, 2-3=-36, 5-6=51, 6-7=72  
Drag: 3-4=1, 4-5=-1  
Concentrated Loads (lb)  
Vert: 10=85(B) 12=252(B) 8=252(B) 15=85(B) 16=85(B) 17=85(B) 18=85(B) 19=85(B)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=41, 2-3=21, 3-5=14, 5-6=14, 6-7=7, 2-6=-12  
Horz: 1-2=-50, 2-3=-29, 5-6=23, 6-7=15  
Drag: 3-4=0, 4-5=0  
Concentrated Loads (lb)  
Vert: 10=85(B) 12=252(B) 8=252(B) 15=85(B) 16=85(B) 17=85(B) 18=85(B) 19=85(B)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=7, 2-3=14, 3-5=14, 5-6=21, 6-7=41, 2-6=-12  
Horz: 1-2=-15, 2-3=-23, 5-6=29, 6-7=50  
Drag: 3-4=0, 4-5=0  
Concentrated Loads (lb)  
Vert: 10=85(B) 12=252(B) 8=252(B) 15=85(B) 16=85(B) 17=85(B) 18=85(B) 19=85(B)
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-2=-106, 2-3=-14, 3-5=-14, 5-6=-14, 6-7=-106, 2-6=-20  
Concentrated Loads (lb)  
Vert: 10=-29(B) 12=-67(B) 8=-67(B) 15=-29(B) 16=-29(B) 17=-29(B) 18=-29(B) 19=-29(B)
- 12) 3rd Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-42, 3-14=-106, 5-14=-128, 5-7=-42, 2-6=-20  
Concentrated Loads (lb)  
Vert: 10=-363(B) 12=-1041(B) 8=-1041(B) 15=-363(B) 16=-363(B) 17=-363(B) 18=-363(B) 19=-363(B)

Continued on page 3



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	H04GI	Hip Girder	1	2	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:51 2015 Page 3  
ID:FsnpEGSmFy7ac4naPmmEZvyXsef-3639LMnikwk3AOW8wE1VPI3NUUrt9LyFvzp?8Ay6md2

### LOAD CASE(S)

- 13) 4th Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-150, 3-5=-42, 5-7=-42, 2-6=-20  
Concentrated Loads (lb)  
Vert: 10=-363(B) 12=-1041(B) 8=-1041(B) 15=-363(B) 16=-363(B) 17=-363(B) 18=-363(B) 19=-363(B)
- 14) 5th Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-42, 3-13=-128, 5-13=-106, 5-7=-42, 2-6=-20  
Concentrated Loads (lb)  
Vert: 10=-363(B) 12=-1041(B) 8=-1041(B) 15=-363(B) 16=-363(B) 17=-363(B) 18=-363(B) 19=-363(B)
- 15) 6th Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-42, 3-5=-42, 5-7=-150, 2-6=-20  
Concentrated Loads (lb)  
Vert: 10=-363(B) 12=-1041(B) 8=-1041(B) 15=-363(B) 16=-363(B) 17=-363(B) 18=-363(B) 19=-363(B)
- 16) 7th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-42, 3-5=-174, 5-7=-42, 2-6=-20  
Concentrated Loads (lb)  
Vert: 10=-363(B) 12=-1041(B) 8=-1041(B) 15=-363(B) 16=-363(B) 17=-363(B) 18=-363(B) 19=-363(B)
- 17) 8th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-174, 3-5=-42, 5-7=-174, 2-6=-20  
Concentrated Loads (lb)  
Vert: 10=-363(B) 12=-1041(B) 8=-1041(B) 15=-363(B) 16=-363(B) 17=-363(B) 18=-363(B) 19=-363(B)
- 18) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=27, 2-3=7, 3-5=43, 5-6=23, 6-7=16, 2-6=-12  
Horz: 1-2=-36, 2-3=-15, 5-6=31, 6-7=24  
Drag: 3-4=1, 4-5=-1  
Concentrated Loads (lb)  
Vert: 10=-27(B) 12=-67(B) 8=-67(B) 15=-27(B) 16=-27(B) 17=-27(B) 18=-27(B) 19=-27(B)
- 19) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=16, 2-3=23, 3-5=43, 5-6=7, 6-7=27, 2-6=-12  
Horz: 1-2=-24, 2-3=-31, 5-6=15, 6-7=36  
Drag: 3-4=1, 4-5=-1  
Concentrated Loads (lb)  
Vert: 10=-27(B) 12=-67(B) 8=-67(B) 15=-27(B) 16=-27(B) 17=-27(B) 18=-27(B) 19=-27(B)
- 20) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=64, 2-3=43, 3-5=27, 5-6=27, 6-7=20, 2-6=-12  
Horz: 1-2=-72, 2-3=-51, 5-6=36, 6-7=28  
Drag: 3-4=1, 4-5=-1  
Concentrated Loads (lb)  
Vert: 10=-27(B) 12=-67(B) 8=-67(B) 15=-27(B) 16=-27(B) 17=-27(B) 18=-27(B) 19=-27(B)
- 21) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=20, 2-3=27, 3-5=27, 5-6=43, 6-7=64, 2-6=-12  
Horz: 1-2=-28, 2-3=-36, 5-6=51, 6-7=72  
Drag: 3-4=1, 4-5=-1  
Concentrated Loads (lb)  
Vert: 10=-27(B) 12=-67(B) 8=-67(B) 15=-27(B) 16=-27(B) 17=-27(B) 18=-27(B) 19=-27(B)
- 22) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=41, 2-3=21, 3-5=14, 5-6=14, 6-7=7, 2-6=-12  
Horz: 1-2=-50, 2-3=-29, 5-6=23, 6-7=15  
Drag: 3-4=0, 4-5=0  
Concentrated Loads (lb)  
Vert: 10=-27(B) 12=-67(B) 8=-67(B) 15=-27(B) 16=-27(B) 17=-27(B) 18=-27(B) 19=-27(B)
- 23) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
Uniform Loads (plf)  
Vert: 1-2=7, 2-3=14, 3-5=14, 5-6=21, 6-7=41, 2-6=-12  
Horz: 1-2=-15, 2-3=-23, 5-6=29, 6-7=50  
Drag: 3-4=0, 4-5=0  
Concentrated Loads (lb)  
Vert: 10=-27(B) 12=-67(B) 8=-67(B) 15=-27(B) 16=-27(B) 17=-27(B) 18=-27(B) 19=-27(B)

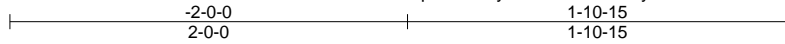


Job B156837	Truss J01	Truss Type Jack-Closed	Qty 4	Ply 1	CIAMPI Job Reference (optional)
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Mainly Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:51 2015 Page 1

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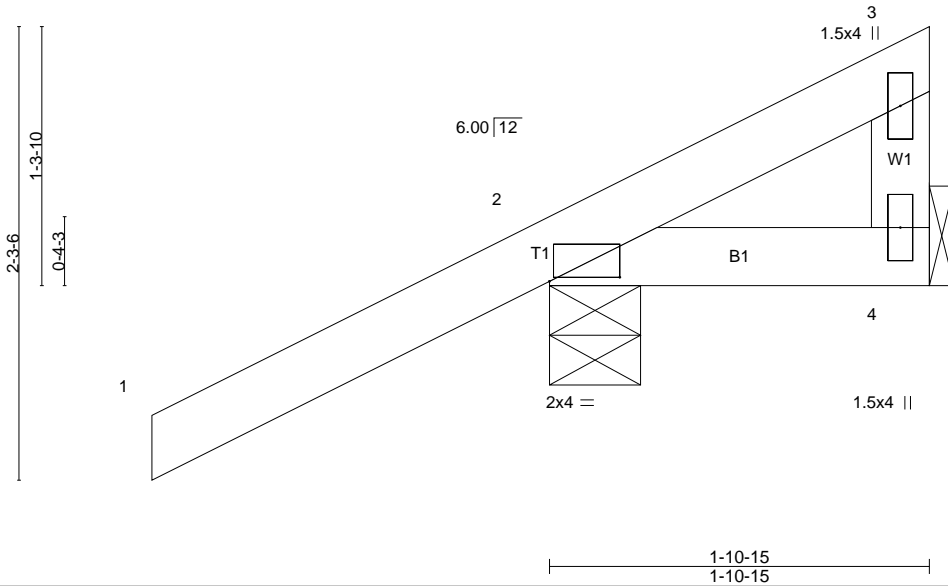


Plate Offsets (X,Y)-- [2:0-4-4,0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.44	Vert(LL) -0.00	2	>999	240		MT20	197/144
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.03	Vert(TL) -0.00	2-4	>999	180			
TCDL 7.0	Lumber DOL 1.15	WB 0.00	Horz(TL) 0.00	4	n/a	n/a			
BCLL 0.0	Rep Stress Incr YES	(Matrix)						Weight: 8 lb	FT = 20%
BCDL 10.0	Code IRC2009/TPI2007								

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.  
 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.** (lb/size) 4=-21/Mechanical, 2=456/0-5-8 (min. 0-1-8)  
 Max Horz 2=93(LC 7)  
 Max Uplift 4=-100(LC 11), 2=-247(LC 7)  
 Max Grav 4=64(LC 7), 2=467(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; 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=46.2 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
  - 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 46.2 psf on overhangs non-concurrent with other live loads.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 4 and 247 lb uplift at joint 2.
  - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

- LOAD CASE(S)**
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-106, 2-4=-20
  - 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-106, 2-3=-120, 2-4=-20
  - 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-42, 2-4=-20
  - 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-14, 2-4=-40

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	J01	Jack-Closed	4	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:51 2015 Page 2  
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**LOAD CASE(S)**

- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=27, 2-3=7, 2-4=-12  
 Horz: 1-2=-36, 2-3=-15, 3-4=27
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=16, 2-3=23, 2-4=-12  
 Horz: 1-2=-24, 2-3=-31, 3-4=-21
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=64, 2-3=43, 2-4=-12  
 Horz: 1-2=-72, 2-3=-51, 3-4=26
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=20, 2-3=27, 2-4=-12  
 Horz: 1-2=-28, 2-3=-36, 3-4=26
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=41, 2-3=21, 2-4=-12  
 Horz: 1-2=-50, 2-3=-29, 3-4=26
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=7, 2-3=14, 2-4=-12  
 Horz: 1-2=-15, 2-3=-23, 3-4=26
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-106, 2-3=-14, 2-4=-20

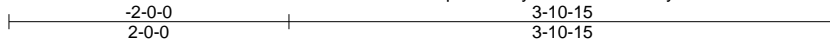


Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	J03	Jack-Closed	4	1	

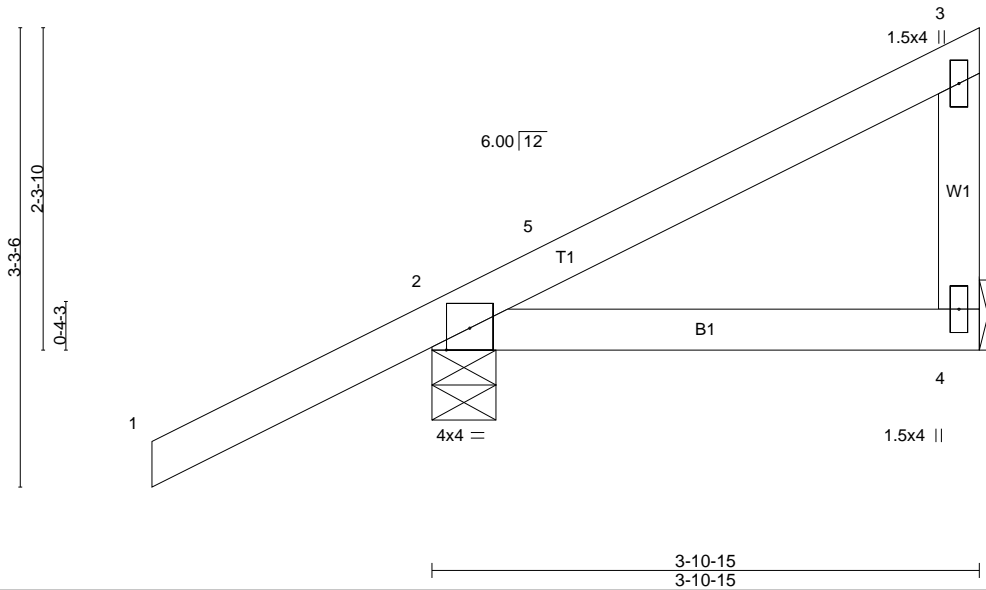
Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:52 2015 Page 1

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Scale = 1:16.5



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 46.2 (Ground Snow=60.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	TC 0.53 BC 0.12 WB 0.00 (Matrix)	in (loc) l/def L/d Vert(LL) -0.01 2-4 >999 240 Vert(TL) -0.02 2-4 >999 180 Horz(TL) 0.00 4 n/a n/a	MT20	197/144
TCDL 7.0				Weight: 14 lb FT = 20%	
BCLL 0.0					
BCDL 10.0					

**LUMBER-**  
 TOP CHORD 2x4 SPF No.2  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.  
 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.** (lb/size) 4=149/Mechanical, 2=535/0-5-8 (min. 0-1-8)  
 Max Horz 2=124(LC 6)  
 Max Uplift 4=-33(LC 6), 2=-237(LC 7)  
 Max Grav 4=187(LC 2), 2=560(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; 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=46.2 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
  - 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 46.2 psf on overhangs non-concurrent with other live loads.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 4 and 237 lb uplift at joint 2.
  - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

- LOAD CASE(S)**
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-106, 2-4=-20
  - 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-5=-106, 3-5=-129, 2-4=-20
  - 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-42, 2-4=-20
  - 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-14, 2-4=-40

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	J03	Jack-Closed	4	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:52 2015 Page 2  
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**LOAD CASE(S)**

- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=27, 2-3=7, 2-4=-12  
 Horz: 1-2=-36, 2-3=-15, 3-4=27
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=16, 2-3=23, 2-4=-12  
 Horz: 1-2=-24, 2-3=-31, 3-4=-21
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=64, 2-3=43, 2-4=-12  
 Horz: 1-2=-72, 2-3=-51, 3-4=26
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=20, 2-3=27, 2-4=-12  
 Horz: 1-2=-28, 2-3=-36, 3-4=26
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=41, 2-3=21, 2-4=-12  
 Horz: 1-2=-50, 2-3=-29, 3-4=26
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=7, 2-3=14, 2-4=-12  
 Horz: 1-2=-15, 2-3=-23, 3-4=26
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-106, 2-3=-14, 2-4=-20

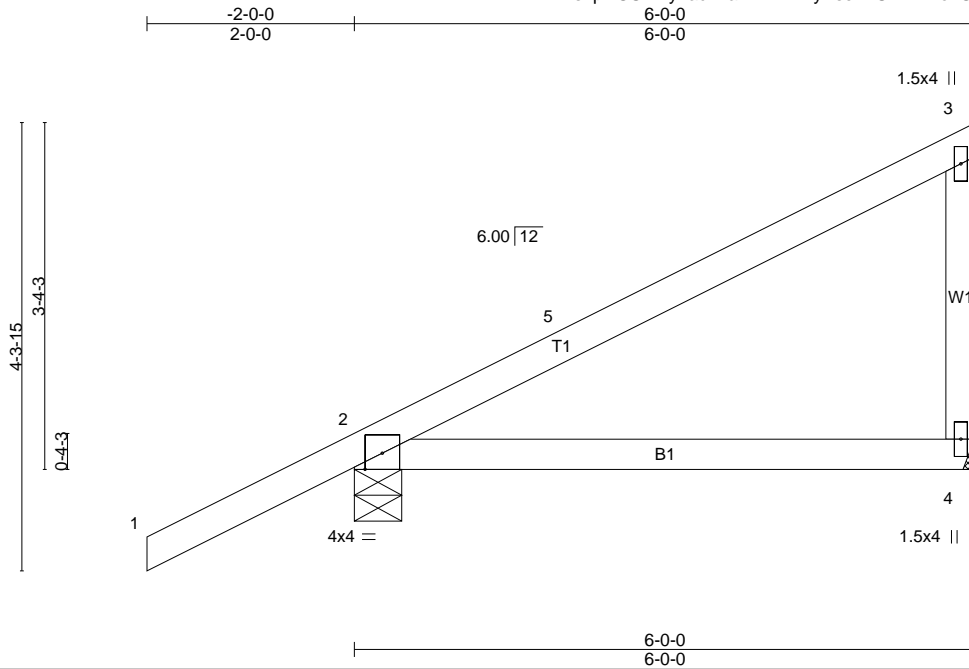




Job B156837	Truss J06	Truss Type Jack-Closed	Qty 8	Ply 1	CIAMPI Job Reference (optional)
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Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:53 2015 Page 1  
ID:FsnpEGSmFy7ac4naPmmEZvyXsef-?UBwm2ozGX\_nQh3X1f3zU78jblfBdLuYMHl6D2y6md0



Scale = 1:22.2

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 46.2 (Ground Snow=60.0)	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.88 BC 0.34 WB 0.00 (Matrix)	Vert(LL) -0.06 2-4 >999 240 Vert(TL) -0.15 2-4 >450 180 Horz(TL) 0.00 4 n/a n/a	MT20	197/144
TCDL 7.0	Rep Stress Incr YES				
BCLL 0.0	Code IRC2009/TPI2007				
BCDL 10.0				Weight: 20 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SPF No.2  
BOT CHORD 2x4 SPF No.2  
WEBS 2x4 SPF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
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.** (lb/size) 4=309/Mechanical, 2=640/0-5-8 (min. 0-1-8)  
Max Horz 2=179(LC 6)  
Max Uplift 4=-73(LC 7), 2=-243(LC 7)  
Max Grav 4=383(LC 2), 2=676(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-4=-326/107

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; 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=46.2 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
  - 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 46.2 psf on overhangs non-concurrent with other live loads.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 4 and 243 lb uplift at joint 2.
  - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

- LOAD CASE(S)**
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-106, 2-4=-20
  - 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-5=-106, 3-5=-136, 2-4=-20
  - 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-42, 2-4=-20
  - 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-14, 2-4=-40

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	J06	Jack-Closed	8	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:53 2015 Page 2  
 ID:FsnpEGSmFy7ac4naPmmEZvyXsef-?UBwm2ozGX\_nQh3X1f3zU78jblfBdLuYMHl6D2y6md0

**LOAD CASE(S)**

- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=27, 2-3=7, 2-4=-12  
 Horz: 1-2=-36, 2-3=-15, 3-4=27
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=16, 2-3=23, 2-4=-12  
 Horz: 1-2=-24, 2-3=-31, 3-4=-21
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=64, 2-3=43, 2-4=-12  
 Horz: 1-2=-72, 2-3=-51, 3-4=26
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=20, 2-3=27, 2-4=-12  
 Horz: 1-2=-28, 2-3=-36, 3-4=26
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=41, 2-3=21, 2-4=-12  
 Horz: 1-2=-50, 2-3=-29, 3-4=26
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=7, 2-3=14, 2-4=-12  
 Horz: 1-2=-15, 2-3=-23, 3-4=26
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-106, 2-3=-14, 2-4=-20

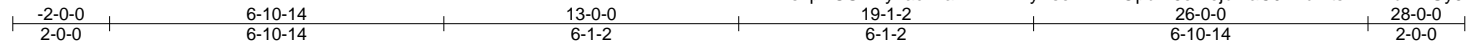


Job B156837	Truss T01	Truss Type COMMON	Qty 6	Ply 1	CIAMPI Job Reference (optional)
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Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:54 2015 Page 1

ID:FsnpEGSmFy7ac4naPmmEZvyXsef-ThllzOpb1r6e1rejbMaC0KhuFitsMkDhbx2flUy6md?



Scale: 1/4"=1'

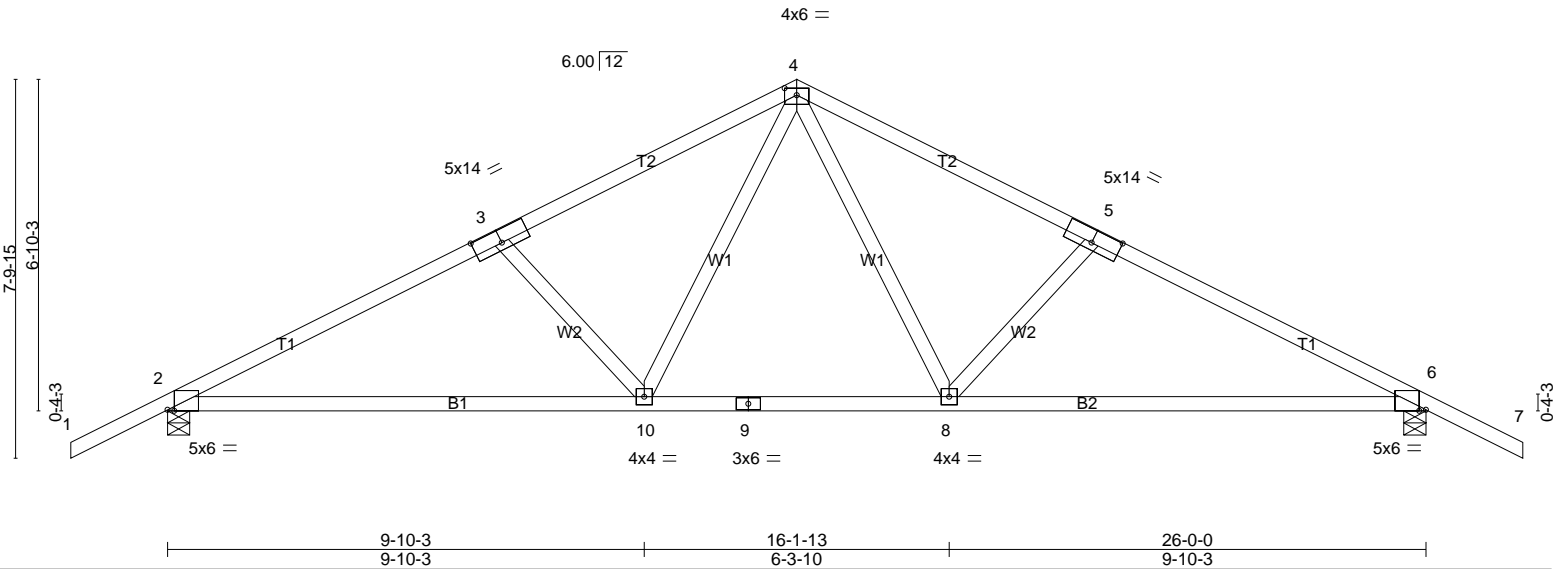


Plate Offsets (X,Y)-- [2:0-1-11,Edge], [3:0-7-0,0-3-4], [4:0-3-0,0-1-12], [5:0-7-0,0-3-4], [6:0-1-11,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 46.2	2-0-0	TC 0.82	Vert(LL) -0.23	6-8	>999	240	MT20	197/144
(Ground Snow=60.0)	Plate Grip DOL 1.15	BC 0.88	Vert(TL) -0.61	6-8	>505	180		
TCDL 7.0	Lumber DOL 1.15	WB 0.31	Horz(TL) 0.10	6	n/a	n/a		
BCLL 0.0	Rep Stress Incr YES	(Matrix)						
BCDL 10.0	Code IRC2009/TPI2007						Weight: 94 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SPF 1650F 1.5E  
 BOT CHORD 2x4 SPF No.2  
 WEBS 2x4 SPF No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 8-6-2 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=1851/0-5-8 (min. 0-2-14), 6=1851/0-5-8 (min. 0-2-14)  
 Max Horz 2=-144(LC 8)  
 Max Uplift 2=480(LC 7), 6=-480(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2749/542, 3-4=-2268/486, 4-5=-2268/486, 5-6=-2749/543  
 BOT CHORD 2-10=-451/2309, 9-10=-162/1565, 8-9=-162/1565, 6-8=-331/2309  
 WEBS 4-8=-168/867, 5-8=-821/331, 4-10=-168/867, 3-10=-821/330

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; 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=46.2 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
  - 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 46.2 psf on overhangs non-concurrent with other live loads.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 480 lb uplift at joint 2 and 480 lb uplift at joint 6.
  - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 9) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

- LOAD CASE(S)**
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-106, 4-7=-106, 2-6=-20
  - 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-3=-106, 3-4=-155, 4-7=-42, 2-6=-20
  - 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-4=-42, 4-5=-155, 5-7=-106, 2-6=-20
  - 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-4=-14, 4-7=-14, 2-6=-40

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	T01	COMMON	6	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:54 2015 Page 2  
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**LOAD CASE(S)**

- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=27, 2-4=7, 4-6=23, 6-7=16, 2-6=-12  
 Horz: 1-2=-36, 2-4=-15, 4-6=31, 6-7=24
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=16, 2-4=23, 4-6=7, 6-7=27, 2-6=-12  
 Horz: 1-2=-24, 2-4=-31, 4-6=15, 6-7=36
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=64, 2-4=43, 4-6=27, 6-7=20, 2-6=-12  
 Horz: 1-2=-72, 2-4=-51, 4-6=36, 6-7=28
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=20, 2-4=27, 4-6=43, 6-7=64, 2-6=-12  
 Horz: 1-2=-28, 2-4=-36, 4-6=51, 6-7=72
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=41, 2-4=21, 4-6=14, 6-7=7, 2-6=-12  
 Horz: 1-2=-50, 2-4=-29, 4-6=23, 6-7=15
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-2=7, 2-4=14, 4-6=21, 6-7=41, 2-6=-12  
 Horz: 1-2=-15, 2-4=-23, 4-6=29, 6-7=50
- 11) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 1-2=-106, 2-4=-14, 4-6=-14, 6-7=-106, 2-6=-20



Job B156837	Truss T01A	Truss Type COMMON	Qty 2	Ply 1	CIAMPI Job Reference (optional)
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Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:55 2015 Page 1

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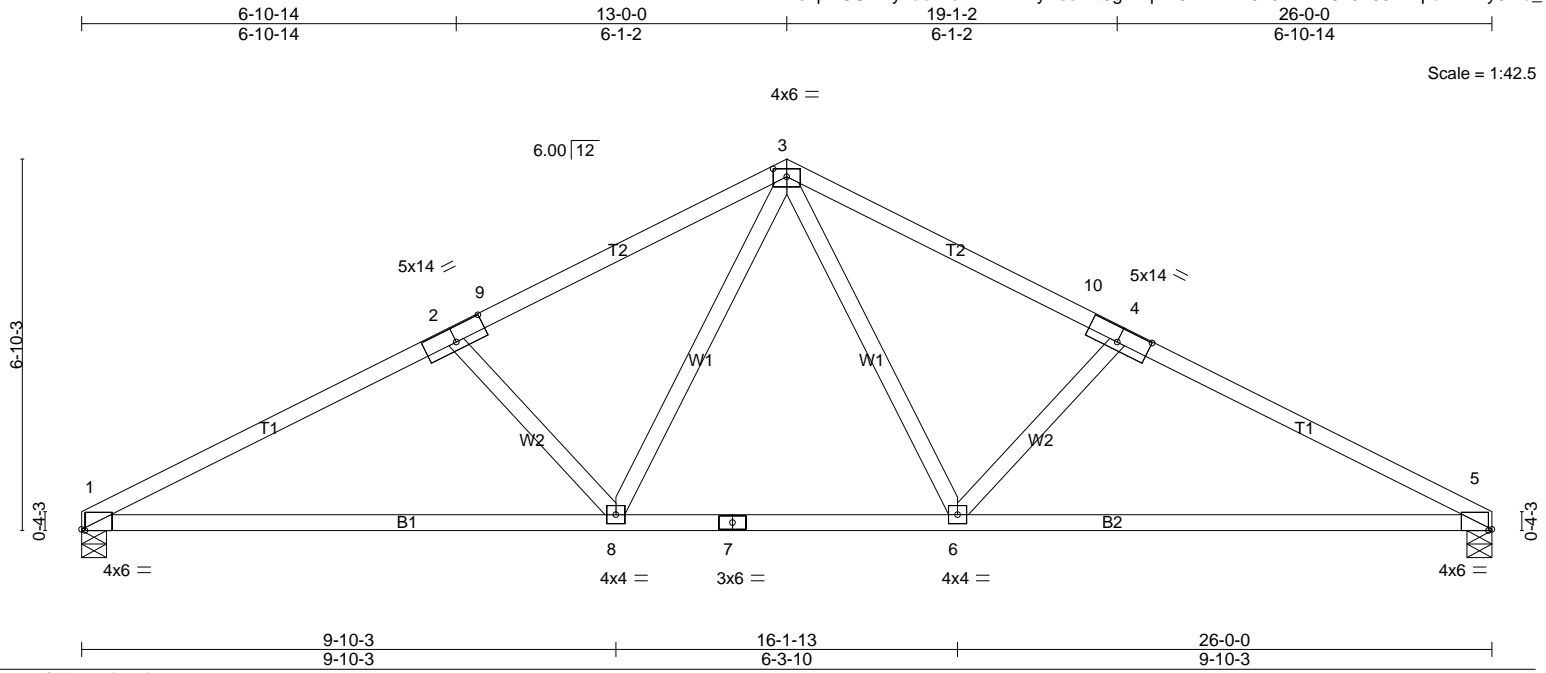


Plate Offsets (X,Y)-- [1:0-0-12,Edge], [2:0-7-0,0-3-4], [3:0-3-0,0-1-12], [4:0-7-0,0-3-4], [5:0-0-12,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 46.2 (Ground Snow=60.0) TCDL 7.0 BCLL 0.0 BCDL 10.0	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	TC 0.83 BC 0.76 WB 0.31 (Matrix)	in (loc) l/defl L/d Vert(LL) -0.23 5-6 >999 240 Vert(TL) -0.61 5-6 >507 180 Horz(TL) 0.10 5 n/a n/a	MT20	197/144
				Weight: 89 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SPF 1650F 1.5E  
BOT CHORD 2x4 SPF 1650F 1.5E  
WEBS 2x4 SPF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-7-6 oc bracing.

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

**REACTIONS.** (lb/size) 1=1614/0-5-8 (min. 0-2-9), 5=1614/0-5-8 (min. 0-2-9)  
Max Horz 1=106(LC 6)  
Max Uplift 1=-333(LC 7), 5=-333(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-2797/591, 2-9=-2341/508, 3-9=-2172/529, 3-10=-2172/529, 4-10=-2341/508, 4-5=-2797/591  
BOT CHORD 1-8=-530/2388, 7-8=-209/1608, 6-7=-209/1608, 5-6=-428/2388  
WEBS 3-6=-203/877, 4-6=-804/354, 3-8=-203/877, 2-8=-804/354

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TC DL=4.2psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; 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=46.2 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
  - 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 1 and 333 lb uplift at joint 5.
  - 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 8) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

- LOAD CASE(S)**
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-106, 3-5=-106, 1-5=-20
  - 2) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-9=-106, 3-9=-150, 3-5=-42, 1-5=-20
  - 3) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-3=-42, 3-10=-150, 5-10=-106, 1-5=-20
  - 4) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-14, 3-5=-14, 1-5=-40

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	CIAMPI
B156837	T01A	COMMON	2	1	Job Reference (optional)

Mainely Trusses, Inc., Fairfield, ME, Kenneth Lee

7.600 s Oct 3 2014 MiTek Industries, Inc. Mon Dec 21 11:30:55 2015 Page 2  
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**LOAD CASE(S)**

- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-3=7, 3-5=23, 1-5=-12  
 Horz: 1-3=-15, 3-5=31
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-3=23, 3-5=7, 1-5=-12  
 Horz: 1-3=-31, 3-5=15
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-3=43, 3-5=27, 1-5=-12  
 Horz: 1-3=-51, 3-5=36
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-3=27, 3-5=43, 1-5=-12  
 Horz: 1-3=-36, 3-5=51
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-3=21, 3-5=14, 1-5=-12  
 Horz: 1-3=-29, 3-5=23
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60  
 Uniform Loads (plf)  
 Vert: 1-3=14, 3-5=21, 1-5=-12  
 Horz: 1-3=-23, 3-5=29

