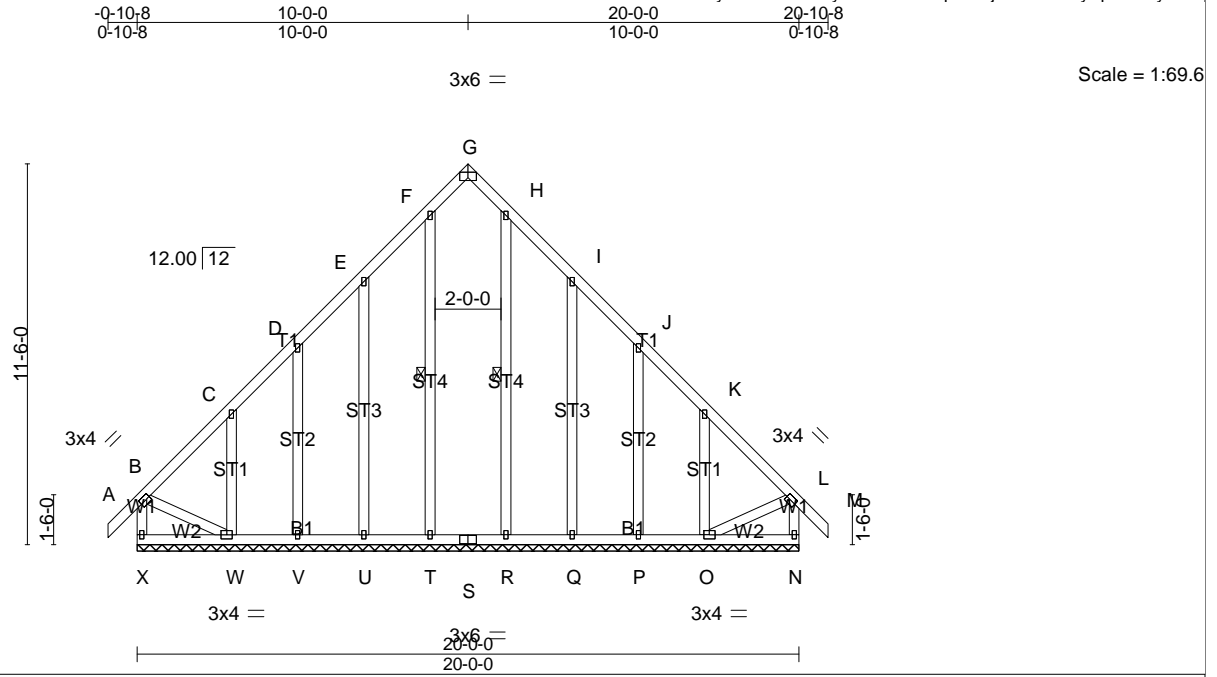


Job 67046806	Truss A1	Truss Type GABLE	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,030 s Apr 8 2017 MTEK Industries, Inc. Mon Nov 13 15:08:04 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyYW5y7knd-c7XR1hyczAX5euFISqP6Y4j7QxXbLDxyVpbTKNyJa5P



Scale = 1:69.6

Plate Offsets (X,Y)-- [B:0-1-4,0-1-8], [G:0-3-0,Edge], [L:0-1-4,0-1-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.09 BC 0.07 WB 0.15 Matrix-SH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.00 L n/r 120 Vert(TL) -0.00 M n/r 90 Horz(TL) 0.01 N n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 168 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt F-T, H-R
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**REACTIONS.** All bearings 20-0-0.  
 (lb) - Max Horz X=341(LC 4)  
 Max Uplift All uplift 100 lb or less at joint(s) X, N, T, V, P except U=130(LC 5), W=289(LC 5), Q=133(LC 6), O=285(LC 6)  
 Max Grav All reactions 250 lb or less at joint(s) T, U, V, W, R, Q, P, O except X=340(LC 5), N=329(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-X=-323/84, B-C=-347/104, K-L=-336/78, L-N=-312/59  
 BOT CHORD W-X=-323/338, V-W=-59/363, U-V=-59/363, T-U=-59/363, S-T=-59/363, R-S=-59/363, Q-R=-59/363, P-Q=-59/363, O-P=-59/363  
 WEBS B-W=-81/384, L-O=-66/378

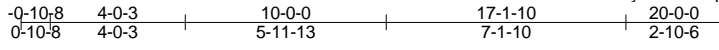
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) X, N, T, V, P except (jt=lb) U=130, W=289, Q=133, O=285.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





5x6 = Scale = 1:68.6

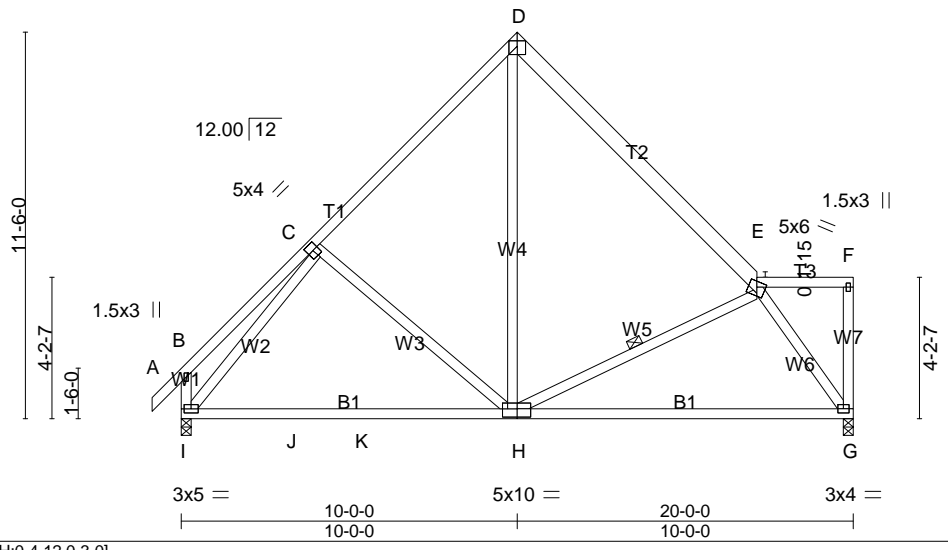


Plate Offsets (X,Y)-- [E:0-3-0,0-2-0], [H:0-4-12,0-3-0]

<b>LOADING (psf)</b> TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.50 BC 0.94 WB 0.49 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.20 G-H >999 240 Vert(TL) -0.51 G-H >464 180 Horz(TL) 0.02 G n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 143 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 *Except* T2: 2x6 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); E-F. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. WEBS 1 Row at midpt E-H
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**REACTIONS.** (lb/size) G=804/0-3-8 (min. 0-1-8), I=915/0-3-8 (min. 0-1-8)  
 Max Horz I=396(LC 4)  
 Max Uplift G=93(LC 5), I=113(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD C-D=695/206, D-E=715/192, B-I=265/132  
 BOT CHORD I-J=245/505, J-K=245/505, H-K=245/505, G-H=53/484  
 WEBS C-H=163/257, D-H=86/474, E-G=822/175, C-I=645/101

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 3) Provide adequate drainage to prevent water ponding.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G except (jt=I) I=113.
  - 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) 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

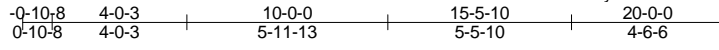


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss A3	Truss Type Roof Special	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:06 2017 Page 1  
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5x6 =

Scale = 1:68.6

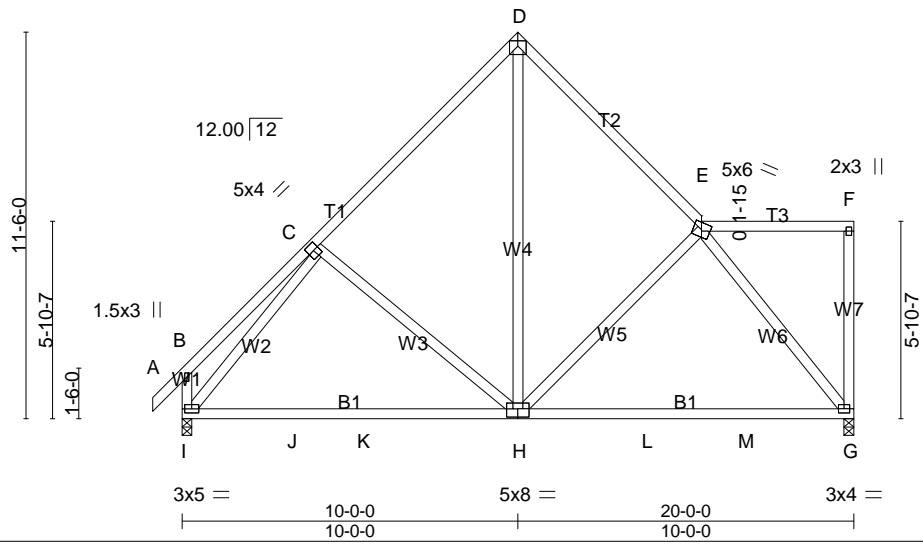


Plate Offsets (X,Y)-- [H:0-4-0,0-3-0]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> Grip DOL 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.53 BC 0.98 WB 0.79 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.24 G-H >981 240 Vert(TL) -0.56 G-H >423 180 Horz(TL) 0.02 G n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 139 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); E-F.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS.** (lb/size) G=892/0-3-8 (min. 0-1-8), I=943/0-3-8 (min. 0-1-8)  
 Max Horz I=420(LC 4)  
 Max Uplift G=96(LC 5), I=110(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD C-D=-741/197, D-E=-723/209  
 BOT CHORD I-J=-277/530, J-K=-277/530, H-K=-277/530, H-L=-99/524, L-M=-99/524, G-M=-99/524  
 WEBS C-H=-158/262, D-H=-115/518, E-G=-807/152, C-I=-718/95

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G except (jt=lb) I=110.
  - 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.
  - 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

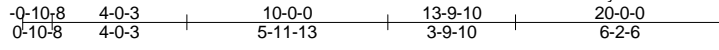


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss A4	Truss Type Roof Special	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:06 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyYW5y7knd-YWfBSNzsvnnpuCO8aFSaeVolL?i2Fp0eFz74aOGyJa5N



5x6 = Scale = 1:68.6

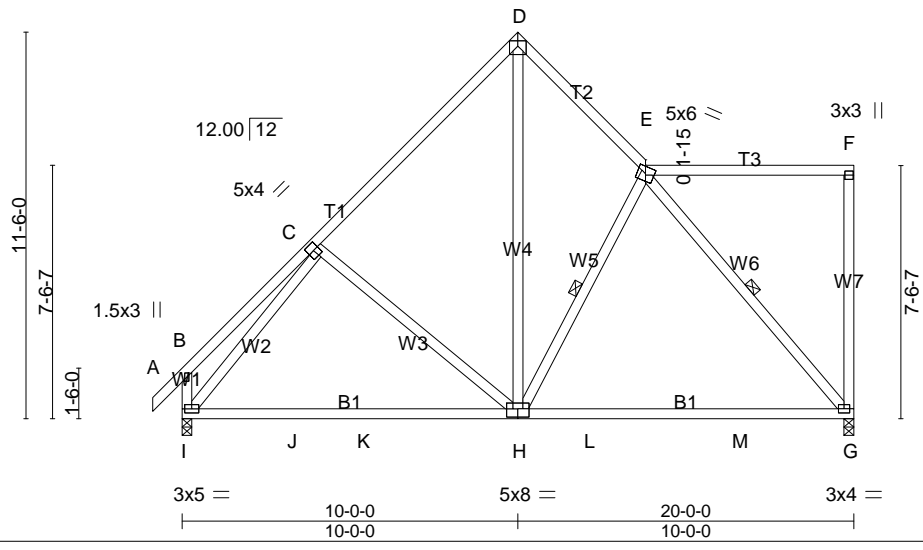


Plate Offsets (X,Y)-- [H:0-4-0,0-3-0]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> Plate Grip DOL 2-0-0 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.60 BC 0.83 WB 0.59 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.32 G-H >728 240 Vert(TL) -0.61 G-H >387 180 Horz(TL) 0.02 G n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 144 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-4-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); E-F.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt E-H, E-G

**REACTIONS.** (lb/size) G=931/0-3-8 (min. 0-1-8), I=966/0-3-8 (min. 0-1-8)  
 Max Horz I=445(LC 4)  
 Max Uplift G=159(LC 4), I=106(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD C-D=-777/185, D-E=-725/223  
 BOT CHORD I-J=-311/551, J-K=-311/551, H-K=-311/551, H-L=-159/530, L-M=-159/530, G-M=-159/530  
 WEBS C-H=-150/265, D-H=-138/626, E-G=-787/143, C-I=-774/90

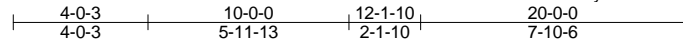
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=Ib) G=159, I=106.
  - 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.
  - 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





5x6 = Scale = 1:68.6

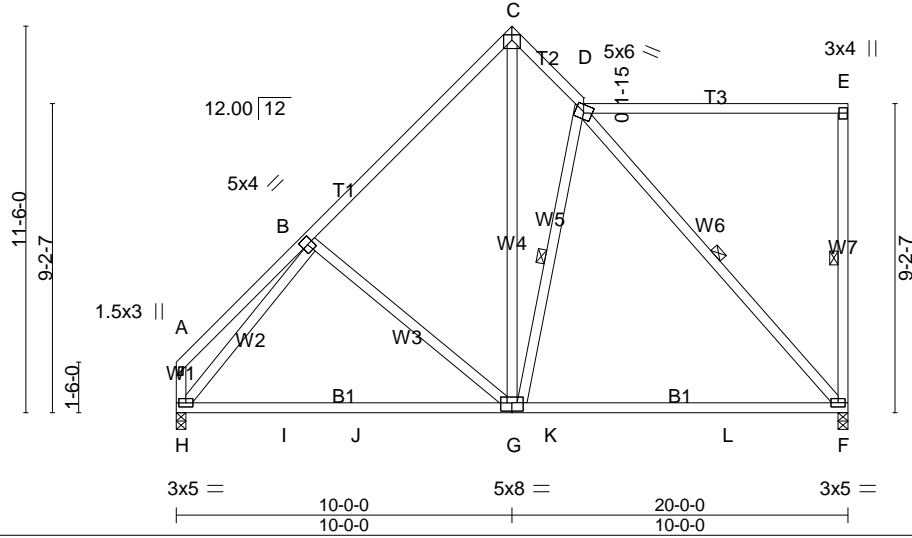


Plate Offsets (X,Y)-- [G:0-4-0,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.93	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.86	Vert(LL) -0.36 F-G >655 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.61	Vert(TL) -0.65 F-G >363 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(TL) 0.02 F n/a n/a		
	Code IRC2009/TPI2007			Weight: 149 lb	FT = 4%

<p><b>LUMBER-</b></p> <p>TOP CHORD 2x4 SP No.2</p> <p>BOT CHORD 2x4 SP No.1</p> <p>WEBS 2x4 SP No.3</p>	<p><b>BRACING-</b></p> <p>TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.); D-E.</p> <p>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.</p> <p>WEBS 1 Row at midpt E-F, D-G, D-F</p>
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**REACTIONS.** (lb/size) F=953/0-3-8 (min. 0-1-8), H=919/0-3-8 (min. 0-1-8)  
 Max Horz H=451(LC 4)  
 Max Uplift F=221(LC 4), H=60(LC 5)

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

TOP CHORD B-C=-803/169, C-D=-743/233

BOT CHORD H-I=-346/570, I-J=-346/570, G-J=-346/570, G-K=-213/525, K-L=-213/525, F-L=-213/525

WEBS B-G=-150/264, C-G=-175/753, D-G=-278/210, D-F=-765/195, B-H=-802/97

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 3) Provide adequate drainage to prevent water ponding.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H except (jt=lb) F=221.
  - 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) 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



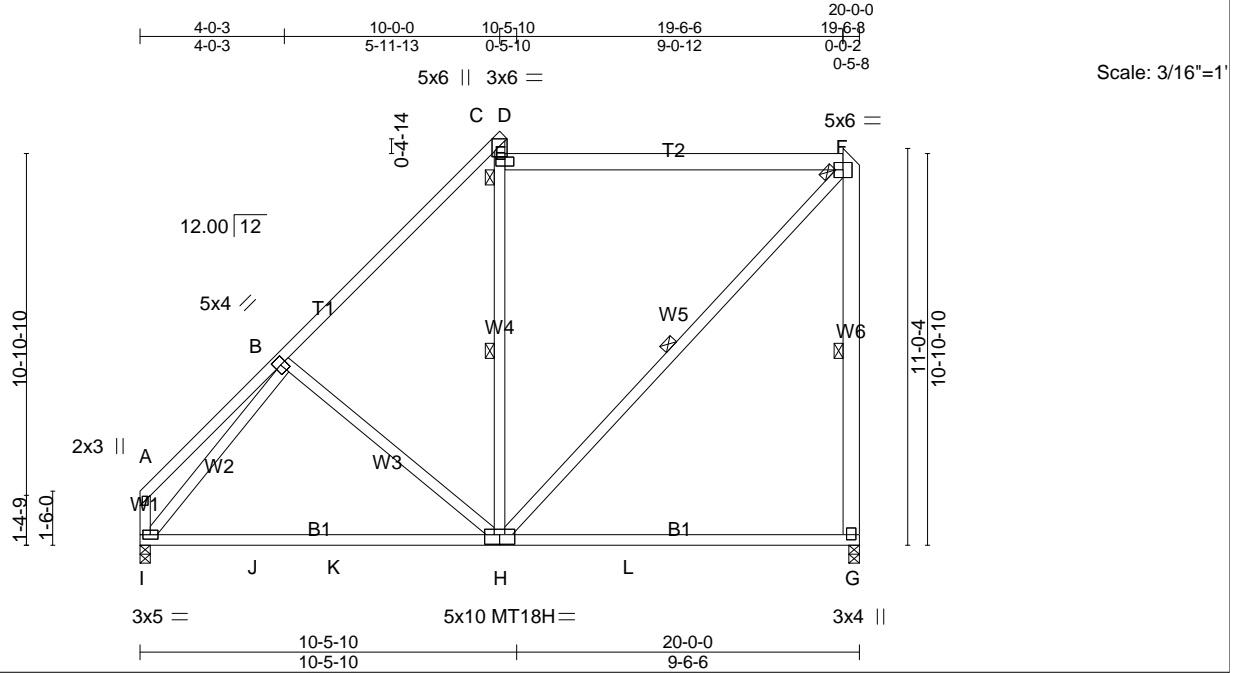


Plate Offsets (X,Y)-- [G:0-1-12,0-1-8], [H:0-5-0,0-3-4]

<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.31 G-H >761 240	MT18H	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.53	Vert(TL) -0.55 G-H >425 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(TL) 0.01 G n/a n/a		
	Code IRC2009/TPI2007				
				Weight: 157 lb	FT = 4%

<p><b>LUMBER-</b></p> <p>TOP CHORD 2x4 SP No.2 *Except* T2: 2x6 SP No.2</p> <p>BOT CHORD 2x4 SP No.1</p> <p>WEBS 2x4 SP No.3 *Except* W4: 2x4 SP No.2, W6: 2x6 SP No.2</p>	<p><b>BRACING-</b></p> <p>TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-F, C-H. Except: 1 Row at midpt E-H 10-0-0 oc bracing: C-E</p> <p>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.</p> <p>WEBS 1 Row at midpt F-G, F-H</p>
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**REACTIONS.** (lb/size) I=895/0-3-8 (min. 0-1-8), G=1013/0-3-8 (min. 0-1-8)  
 Max Horz I=429(LC 5)  
 Max Uplift G=229(LC 4)

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

TOP CHORD B-C=-754/86, E-F=-471/161, C-E=0/266, F-G=-769/277

BOT CHORD I-J=-364/534, J-K=-364/534, H-K=-364/534

WEBS B-H=-134/262, B-I=-696/0, F-H=-237/637

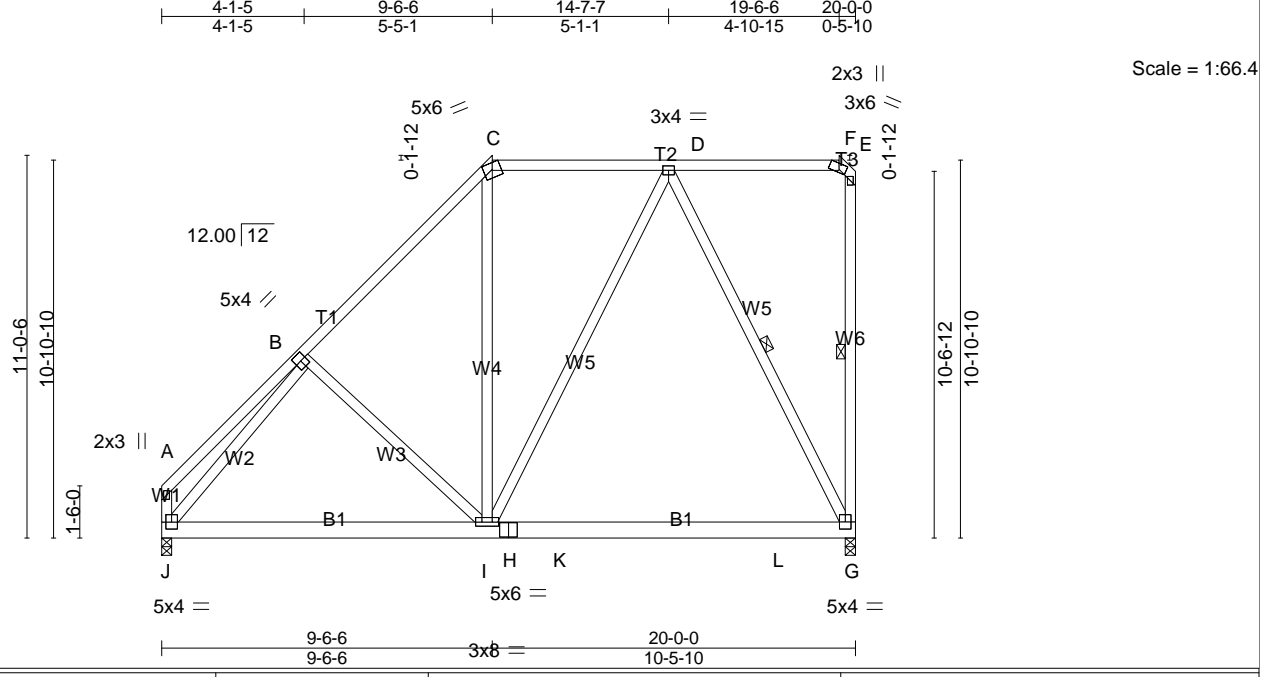
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) The solid section of the plate is required to be placed over the splice line at joint(s) F, H.
  - 6) Plate(s) at joint(s) F and H checked for a plus or minus 3 degree rotation about its center.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) except (jt=lb) G=229.
  - 10) 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.
  - 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)** Standard



Job <b>67046806</b>	Truss <b>A7</b>	Truss Type <b>PIGGYBACK BASE</b>	Qty <b>6</b>	Ply <b>1</b>	<b>MCKEE / THE WINSTON EURO</b>
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 Job Reference (optional)  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:08 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7knd-Vumxt3?70O1X7VYVhgU2jwtkoYm0Hv9YQRZht9yJa5L



<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.38 BC 0.68 WB 0.65 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.21 G-l >999 240 Vert(TL) -0.35 G-l >683 180 Horz(TL) 0.01 G n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 168 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); C-E.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt F-G, D-G

**REACTIONS.** (lb/size) J=856/0-3-8 (min. 0-1-8), G=974/0-3-8 (min. 0-1-8)  
 Max Horz J=372(LC 5)  
 Max Uplift J=5(LC 5), G=-219(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-801/93, C-D=-478/139  
 BOT CHORD I-J=-323/560, H-I=-107/332, H-K=-107/332, K-L=-107/332, G-L=-107/332  
 WEBS B-I=-108/261, D-I=-108/328, B-J=-856/0, D-G=-721/238

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J except (jt=lb) G=219.
  - 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) 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



Job <b>67046806</b>	Truss <b>B1</b>	Truss Type <b>GABLE</b>	Qty <b>1</b>	Ply <b>1</b>	<b>MCKEE / THE WINSTON EURO</b>
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:09 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7knd-z5KK4O?InI9Of7jFN?HF7QveyCn0Vlh5IE?byJa5K

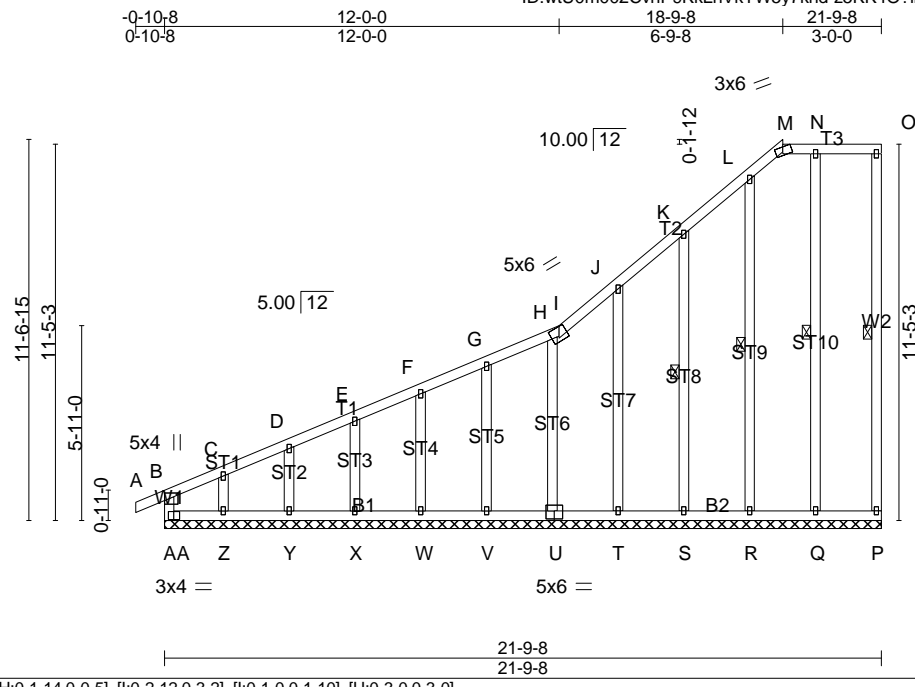


Plate Offsets (X,Y)-- [B:0-2-0,0-1-12], [H:0-1-14,0-0-5], [I:0-2-12,0-3-2], [L:0-1-0,0-1-10], [U:0-3-0,0-3-0]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> Plate Grip DOL 2-0-0 Lumber DOL 1.15 Rep Stress Incr 1.15 Code IRC2009/TPI2007	<b>CSI.</b> TC 0.44 BC 0.20 WB 0.12 Matrix-R	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.00 A n/r 120 Vert(TL) -0.00 A n/r 90 Horz(TL) 0.00 P n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 171 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): M-O. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt O-P, N-Q, L-R, K-S
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**REACTIONS.** All bearings 21-9-8.  
 (lb) - Max Horz AA=435(LC 5)  
 Max Uplift All uplift 100 lb or less at joint(s) P, Q, R, S, T, V, W, X, Y except Z=-277(LC 5)  
 Max Grav All reactions 250 lb or less at joint(s) P, Q, R, S, T, U, V, W, X, Y, Z except AA=308(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-465/14, C-D=-384/23, D-E=-359/21, E-F=-322/21, F-G=-288/21, G-H=-253/21

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) AA considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P, Q, R, S, T, V, W, X, Y except (jt=lb) Z=277.
  - 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.
  - 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





Job 67046806	Truss B2	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8.030 s Apr 8 2017 MTEK Industries, Inc. Mon Nov 13 15:08:10 2017 Page 1  
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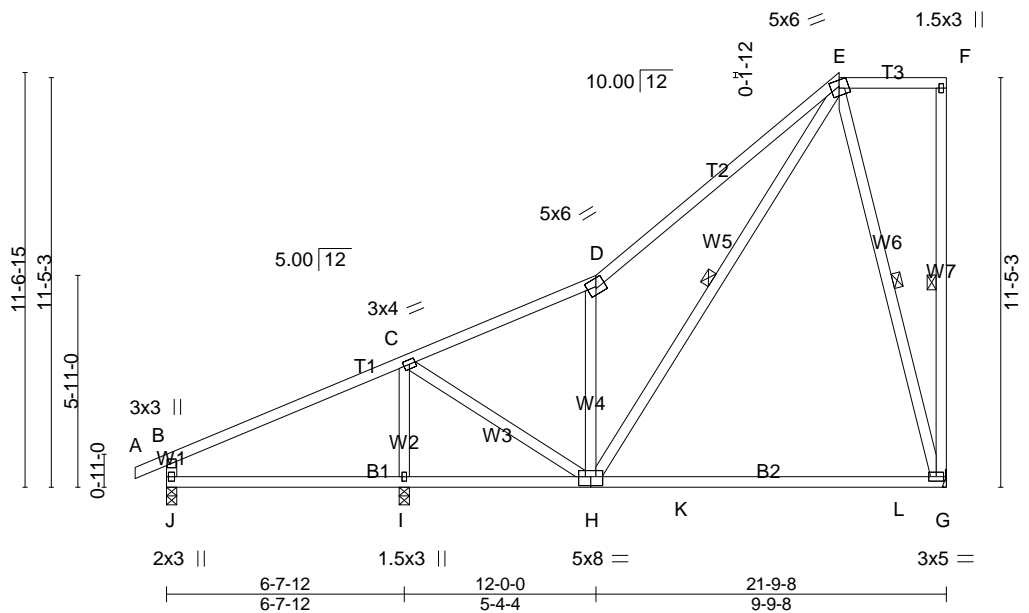
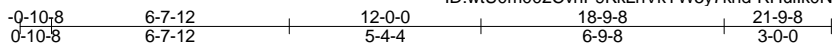


Plate Offsets (X,Y)-- [H:0-4-0,0-3-0]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> Plate Grip DOL 2-0-0 Lumber DOL 1.15 Rep Stress Incr 1.15 Code IRC2009/TPI2007	<b>CSI.</b> TC 0.79 BC 0.94 WB 0.38 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.45 G-H >397 240 Vert(TL) -0.84 G-H >214 180 Horz(TL) -0.01 G n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 145 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-F. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. WEBS 1 Row at midpt F-G, E-H, E-G
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**REACTIONS.** (lb/size) G=799/Mechanical, J=379/0-3-8 (min. 0-1-8), I=848/0-3-8 (min. 0-1-8)  
 Max Horz J=435(LC 5)  
 Max Uplift G=236(LC 5), J=94(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-255/84, C-D=-672/0, D-E=-866/198, B-J=-314/140  
 BOT CHORD I-J=-397/171, H-I=-397/171  
 WEBS C-I=-800/29, C-H=0/460, D-H=-578/272, E-H=-311/798, E-G=-557/317

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J except (t=lb) G=236.
  - 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) 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss B3	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:11 2017 Page 1  
 ID:wtU0m002Cvnp9KkLnVkyV5y7knd-vTS4V41?JJQ6\_zH5Mo1ILYVD1mmUKb\_6PnL4TyJa5l

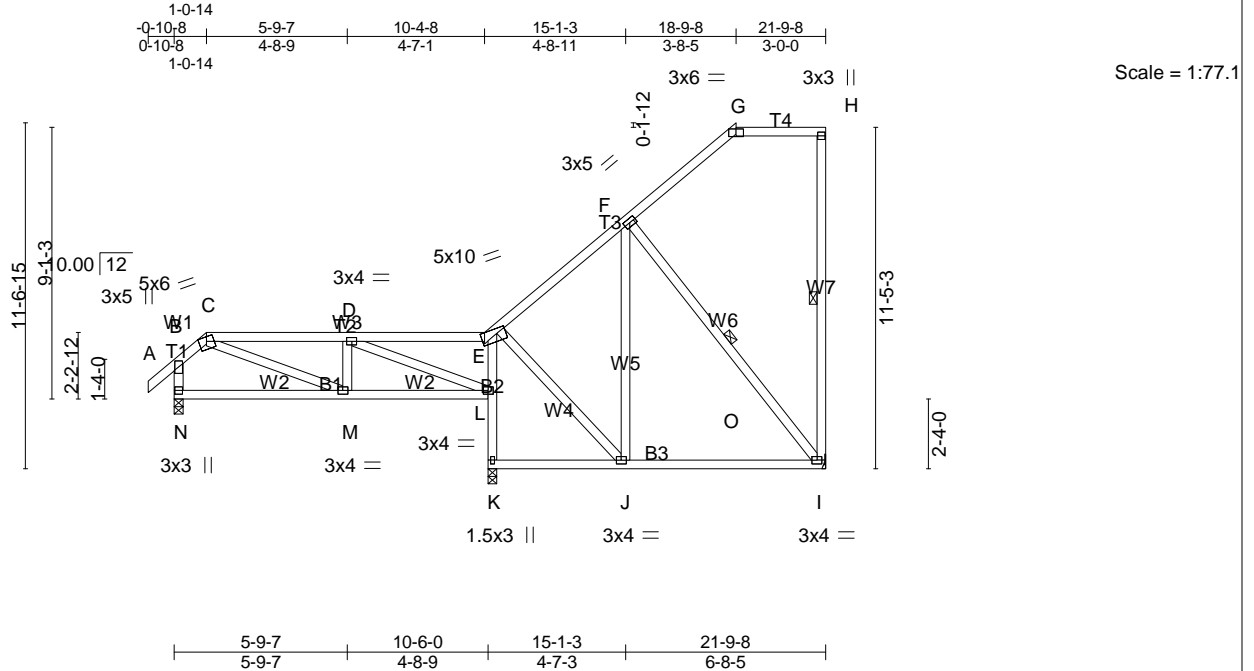


Plate Offsets (X,Y)-- [E:0-3-8,0-2-0], [G:0-3-0,0-2-1]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.51 BC 0.42 WB 0.35 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.06 I-J >999 240 Vert(TL) -0.14 I-J >922 180 Horz(TL) -0.01 I n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 148 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* B2: 2x4 SP No.3 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); C-E, G-H. BOT CHORD Rigid ceiling directly applied or 5-8-6 oc bracing. WEBS 1 Row at midpt H-I, F-I
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**REACTIONS.** (lb/size) I=511/Mechanical, N=477/0-3-8 (min. 0-1-8), K=931/0-3-8 (min. 0-1-8)  
 Max Horz N=360(LC 5)  
 Max Uplift I=130(LC 5), N=74(LC 3), K=121(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-366/110, C-D=-625/170, D-E=-251/32, E-F=-346/0, B-N=-416/100  
 BOT CHORD M-N=-316/176, L-M=-247/625, K-L=-922/136, E-L=-628/65  
 WEBS C-M=-130/485, D-L=-660/254, E-J=-105/326, F-I=-328/126

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N except (jt=lb) I=130, K=121.
  - 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) 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

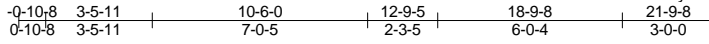


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss B4	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 Job Reference (optional)  
 8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:11 2017 Page 1  
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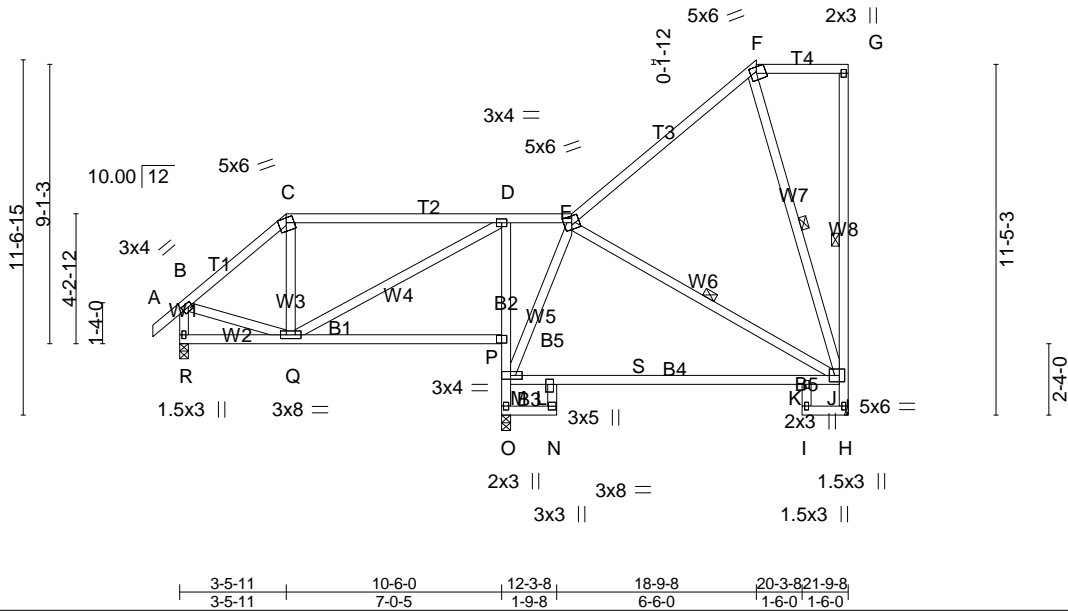


Plate Offsets (X,Y)-- [B:0-1-8,0-1-8], [L:0-2-0,0-0-12], [M:0-4-8,0-1-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> Plate Grip DOL 2-0-0 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.66 BC 0.98 WB 0.35 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.29 K-L >455 240 Vert(TL) -0.72 K-L >182 180 Horz(TL) 0.18 H n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 164 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* B5: 2x4 SP No.3 WEBS 2x4 SP No.3 *Except* W8: 2x4 SP No.2	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.). C-E, F-G. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. WEBS 1 Row at midpt G-H, E-J, F-J
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**REACTIONS.** (lb/size) H=568/Mechanical, R=587/0-3-8 (min. 0-1-8), O=737/0-3-8 (min. 0-1-8)  
 Max Horz R=360(LC 5)  
 Max UpliftH=59(LC 5), O=268(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=538/0, C-D=371/1, D-E=343/0, H-J=529/77, B-R=573/0  
 BOT CHORD Q-R=348/54, P-Q=0/364, M-O=662/295, M-P=429/229, D-P=363/267, N-O=253/0, L-M=0/570, L-S=0/360, K-S=0/360, J-K=0/418  
 WEBS D-Q=289/17, E-J=325/0, B-Q=20/384

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H except (jt=lb) O=268.
  - 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) 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss C1	Truss Type PIGGYBACK BASE SUPPO	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,030 s Apr 8 2017 MTEK Industries, Inc. Mon Nov 13 15:08:12 2017 Page 1  
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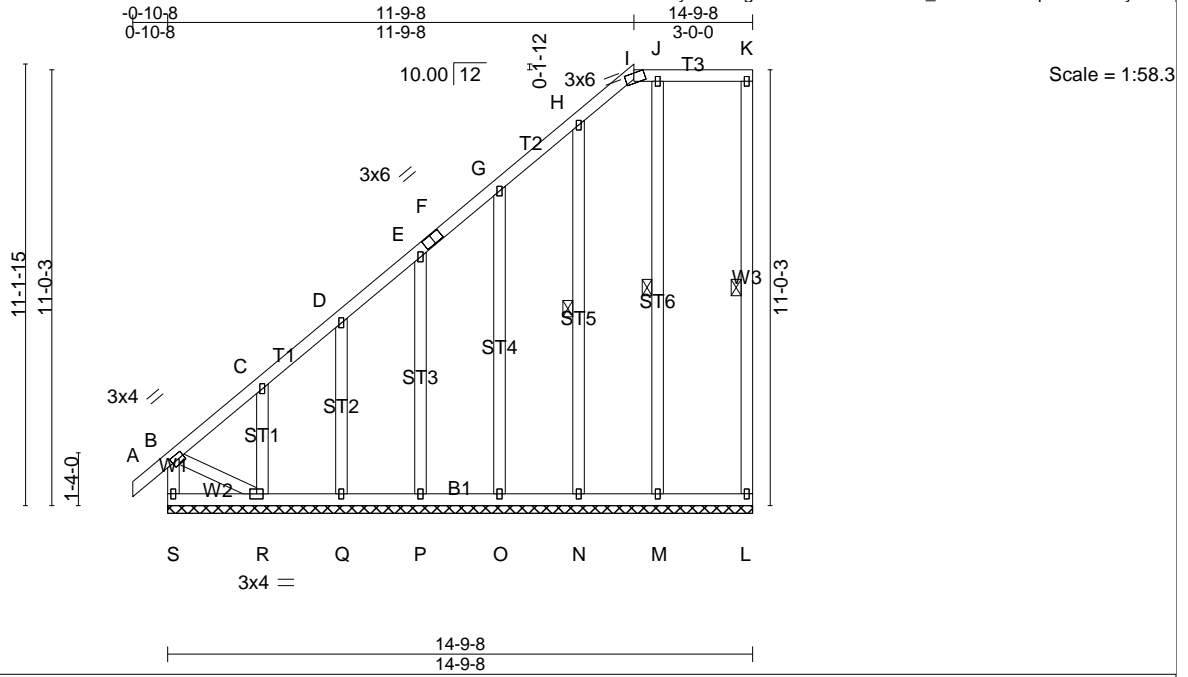


Plate Offsets (X,Y)-- [B:0-1-8,0-1-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.07 BC 0.04 WB 0.15 Matrix-SH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.00 A n/r 120 Vert(TL) -0.00 A n/r 90 Horz(TL) -0.00 L n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 132 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); I-K. BOT CHORD Rigid ceiling directly applied or 9-5-0 oc bracing. WEBS 1 Row at midpt K-L, H-N, J-M
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**REACTIONS.** All bearings 14-9-8.  
 (lb) - Max Horz S=433(LC 5)  
 Max Uplift All uplift 100 lb or less at joint(s) S, L, P, Q, O, N, M except R=287(LC 5)  
 Max Grav All reactions 250 lb or less at joint(s) L, P, Q, R, O, N, M except S=416(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-S=-398/32, B-C=-437/49, C-D=-350/38, D-E=-267/38  
 BOT CHORD R-S=-397/39  
 WEBS B-R=-43/443

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 8) Gable studs spaced at 2-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) S, L, P, Q, O, N, M except (it=lb) R=287.
  - 12) 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.
  - 13) 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss C2	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 Job Reference (optional)  
 8.030 s Apr 8 2017 MTek Industries, Inc. Mon Nov 13 15:08:13 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7Knd-rsaqwm3FrXgqEGRUUD4DQzBV?ZUkyFiHajGS8MyJa5G

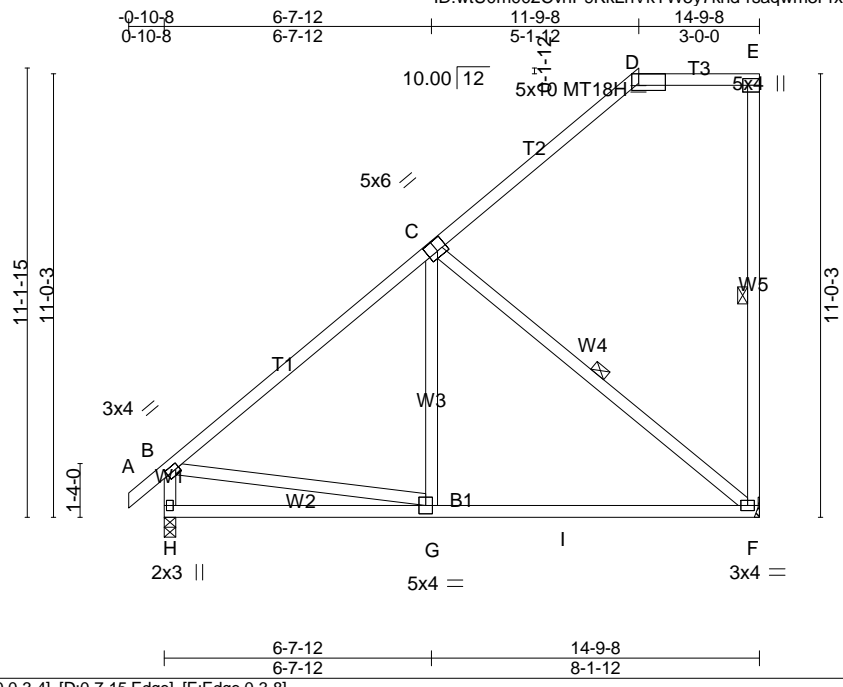


Plate Offsets (X,Y)-- [B:0-1-0,0-1-8], [C:0-3-0,0-3-4], [D:0-7-15,Edge], [E:Edge,0-3-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.80 BC 0.58 WB 0.31 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.11 F-G >999 240 Vert(TL) -0.28 F-G >624 180 Horz(TL) -0.01 F n/a n/a	<b>PLATES GRIP</b> MT20 244/190 MT18H 244/190 Weight: 102 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-E.  
 BOT CHORD Rigid ceiling directly applied or 8-4-14 oc bracing.  
 WEBS 1 Row at midpt E-F, C-F

**REACTIONS.** (lb/size) F=654/Mechanical, H=702/0-3-8 (min. 0-1-8)  
 Max Horz H=433(LC 5)  
 Max Uplift F=-224(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-694/0, B-H=-663/19  
 BOT CHORD G-H=-475/99, G-I=-215/451, F-I=-215/451  
 WEBS C-G=0/305, C-F=-560/269, B-G=0/359

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=224.
  - 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) 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss D1	Truss Type Common Supported Gable	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:13 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7knd-rsaqwm3FrxgqEGRUUD4DQzbdTZb7yHGHaJGS8MyJa5G

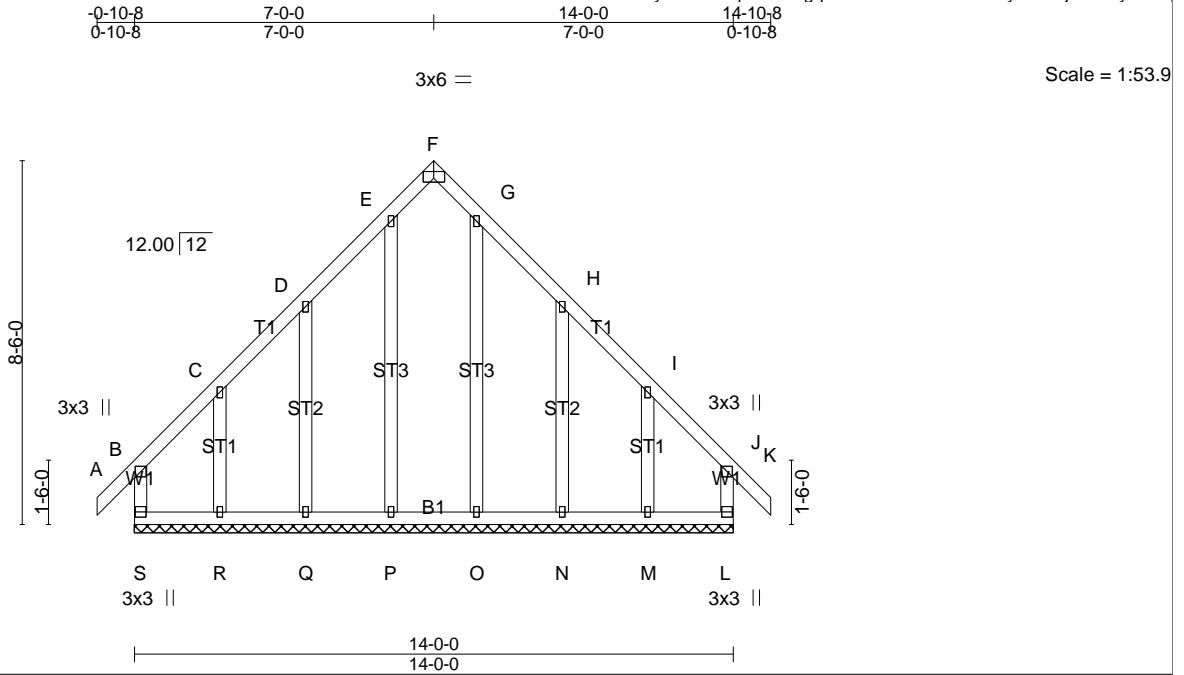


Plate Offsets (X,Y)-- [F:0-3-0,Edge]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.26 BC 0.17 WB 0.15 Matrix-R	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.00 K n/r 120 Vert(TL) -0.01 K n/r 90 Horz(TL) 0.00 L n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 102 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

**REACTIONS.** All bearings 14'-0-0.  
 (lb) - Max Horz S=-255(LC 3)  
 Max Uplift All uplift 100 lb or less at joint(s) except S=-155(LC 3), L=-143(LC 4), Q=-132(LC 5), R=-207(LC 5), N=-134(LC 6), M=-204(LC 6)  
 Max Grav All reactions 250 lb or less at joint(s) S, L, P, Q, R, O, N, M

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2'-0" oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint S, 143 lb uplift at joint L, 132 lb uplift at joint Q, 207 lb uplift at joint R, 134 lb uplift at joint N and 204 lb uplift at joint M.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss D2	Truss Type Common	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 Job Reference (optional)  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:14 2017 Page 1  
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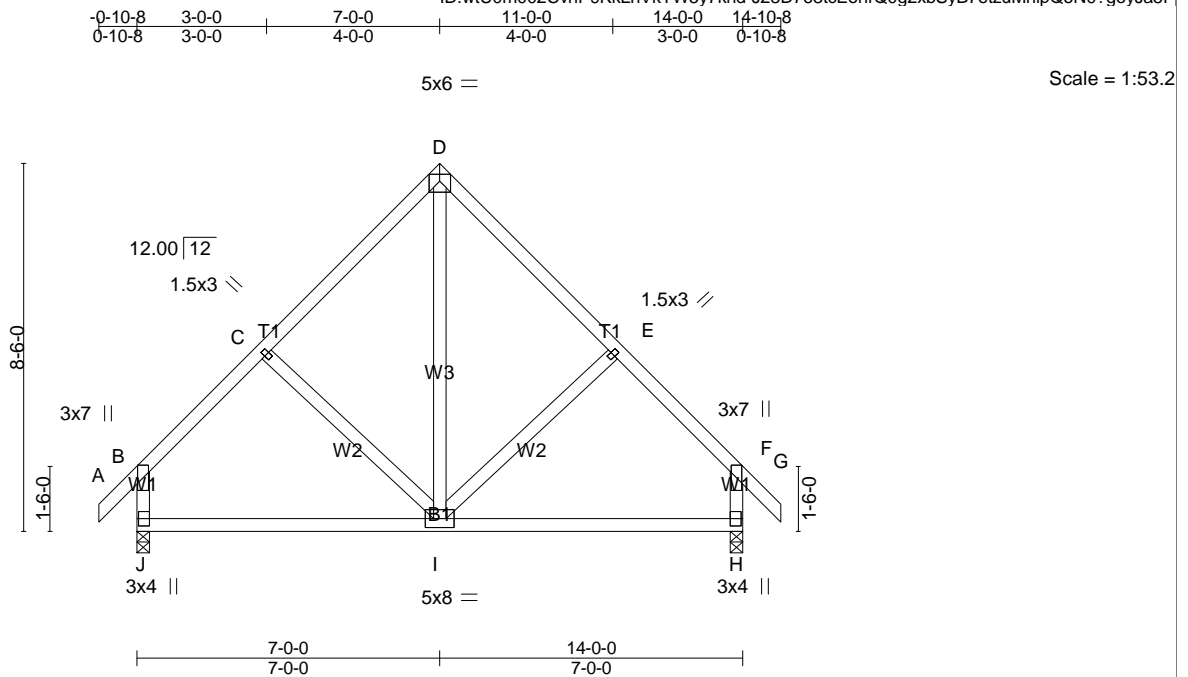


Plate Offsets (X,Y)-- [H:0-2-0,0-0-0], [J:0-2-0,0-0-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.86 BC 0.36 WB 0.13 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.05 I >999 240 Vert(TL) -0.13 I-J >999 180 Horz(TL) 0.01 H n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 86 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

**REACTIONS.** (lb/size) J=610/0-3-8 (min. 0-1-8), H=610/0-3-8 (min. 0-1-8)  
 Max Horz J=255(LC 4)  
 Max Uplift J=91(LC 5), H=91(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-526/124, C-D=-391/158, D-E=-391/158, E-F=-526/123, B-J=-526/127, F-H=-526/127  
 BOT CHORD I-J=-140/279, H-I=0/279  
 WEBS D-I=-102/278

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint J and 91 lb uplift at joint H.
  - 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.

**LOAD CASE(S)** Standard

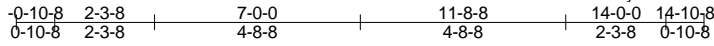


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss D3	Truss Type Roof Special	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:14 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7knd-J28D763tcEohrQ0g2xbSyB7n0zn2hkNQoN0?goyJa5F



5x6 =

Scale = 1:52.8

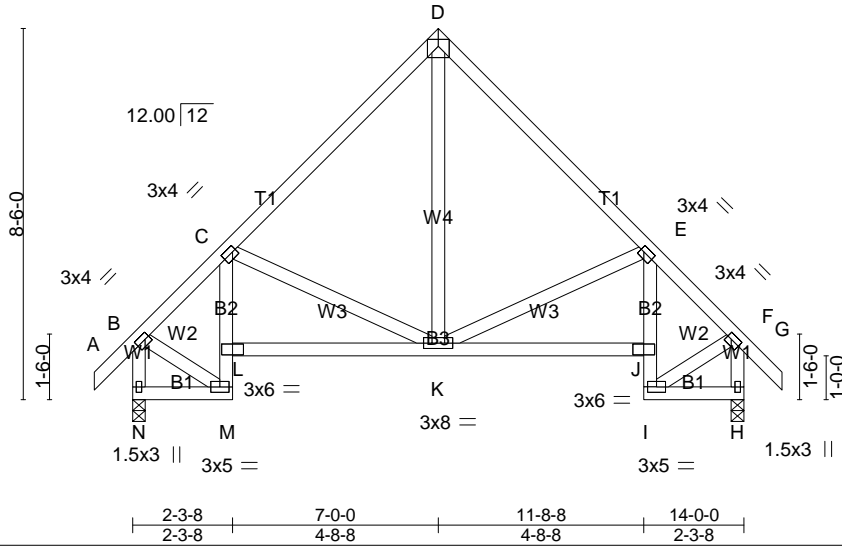


Plate Offsets (X,Y)-- [B:0-1-4,0-1-8], [C:0-1-0,0-1-8], [E:0-1-0,0-1-8], [F:0-1-4,0-1-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.27 BC 0.83 WB 0.16 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) 0.03 K-L >999 240 Vert(TL) -0.08 K-L >999 180 Horz(TL) 0.12 H n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 98 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* B2: 2x4 SP No.3 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
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**REACTIONS.** (lb/size) N=610/0-3-8 (min. 0-1-8), H=610/0-3-8 (min. 0-1-8)  
 Max Horz N=-255(LC 3)  
 Max UpliftN=-91(LC 5), H=-91(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-481/94, C-D=-502/121, D-E=-502/145, E-F=-481/93, B-N=-639/115, F-H=-639/95  
 BOT CHORD K-L=-214/429, J-K=-7/429  
 WEBS D-K=-63/337, B-M=-20/376, F-I=-26/376

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint N and 91 lb uplift at joint H.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





Job 67046806	Truss D4	Truss Type Roof Special	Qty 3	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:15 2017 Page 1  
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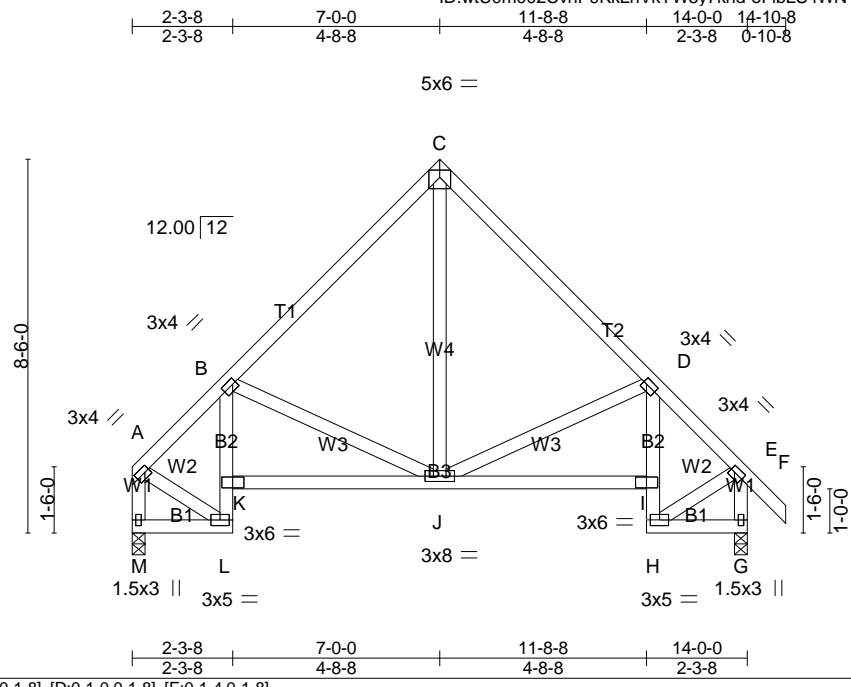


Plate Offsets (X,Y)-- [A:0-1-4,0-1-8], [B:0-1-0,0-1-8], [D:0-1-0,0-1-8], [E:0-1-4,0-1-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.27 BC 0.85 WB 0.16 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) 0.03 J-K >999 240 Vert(TL) -0.08 J-K >999 180 Horz(TL) 0.12 G n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 96 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B2: 2x4 SP No.3  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) M=546/0-3-8 (min. 0-1-8), G=612/0-3-8 (min. 0-1-8)  
 Max Horz M=270(LC 3)  
 Max UpliftM=66(LC 6), G=90(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=488/79, B-C=506/120, C-D=505/143, D-E=483/91, A-M=576/72, E-G=641/94  
 BOT CHORD L-M=210/252, J-K=210/441, I-J=5/431  
 WEBS C-J=61/339, A-L=33/376, E-H=25/378

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint M and 90 lb uplift at joint G.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss D5	Truss Type Roof Special	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:16 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7knd-GRFzYo588s2O5k939Ldw1c7VnR79esjGhV6lhyJa5D

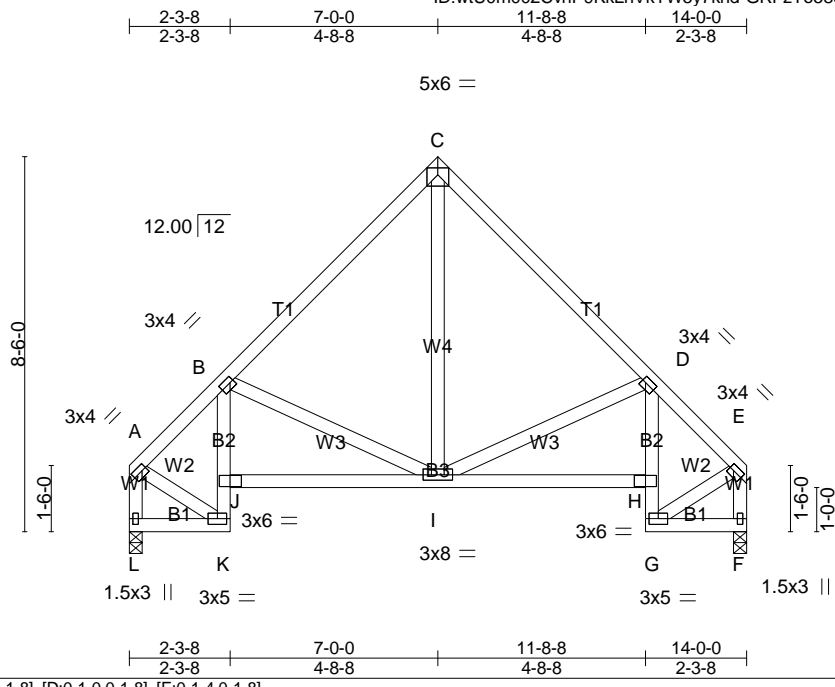


Plate Offsets (X,Y)-- [A:0-1-4,0-1-8], [B:0-1-0,0-1-8], [D:0-1-0,0-1-8], [E:0-1-4,0-1-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.27 BC 0.85 WB 0.16 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) 0.03 I-J >999 240 Vert(TL) -0.08 I-J >999 180 Horz(TL) 0.12 F n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 95 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B2: 2x4 SP No.3  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6'-0-0 oc bracing.

**REACTIONS.** (lb/size) L=548/0-3-8 (min. 0-1-8), F=548/0-3-8 (min. 0-1-8)  
 Max Horz L=251(LC 4)  
 Max Uplift L=65(LC 6), F=65(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=490/81, B-C=509/129, C-D=509/146, D-E=490/87, A-L=579/75, E-F=579/78  
 BOT CHORD I-J=230/443, H-I=30/443  
 WEBS C-I=66/340, A-K=34/378, E-G=39/378

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 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 where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint L and 65 lb uplift at joint F.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss D6	Truss Type Roof Special	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:16 2017 Page 1  
 ID:wtU0m002CvmP9KkLnVkyW5y7knd-GRFzYo588s2O5k939Ldw1cC7UnRQ9esjGhV6lhyJa5D

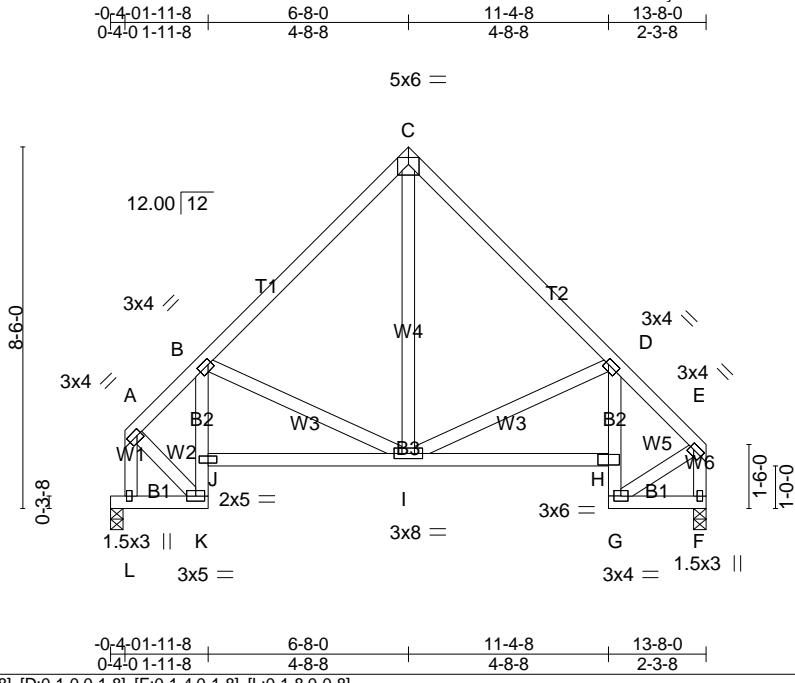


Plate Offsets (X,Y)-- [A:0-1-4,0-1-8], [B:0-1-0,0-1-8], [D:0-1-0,0-1-8], [E:0-1-4,0-1-8], [L:0-1-8,0-0-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.28 BC 0.84 WB 0.16 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) 0.03 I-J >999 240 Vert(TL) -0.07 H-I >999 180 Horz(TL) 0.11 F n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 94 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B2: 2x4 SP No.3  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) F=535/0-3-8 (min. 0-1-8), L=535/0-3-8 (min. 0-1-8)  
 Max Horz L=-256(LC 3)  
 Max Uplift F=-63(LC 5), L=-66(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-409/72, B-C=-490/127, C-D=-490/143, D-E=-477/85, A-L=-571/73, E-F=-564/76  
 BOT CHORD I-J=-243/379, H-I=-29/432  
 WEBS C-I=-62/321, A-K=-44/378, E-G=-38/368

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint F and 66 lb uplift at joint L.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss D7	Truss Type Common	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:17 2017 Page 1  
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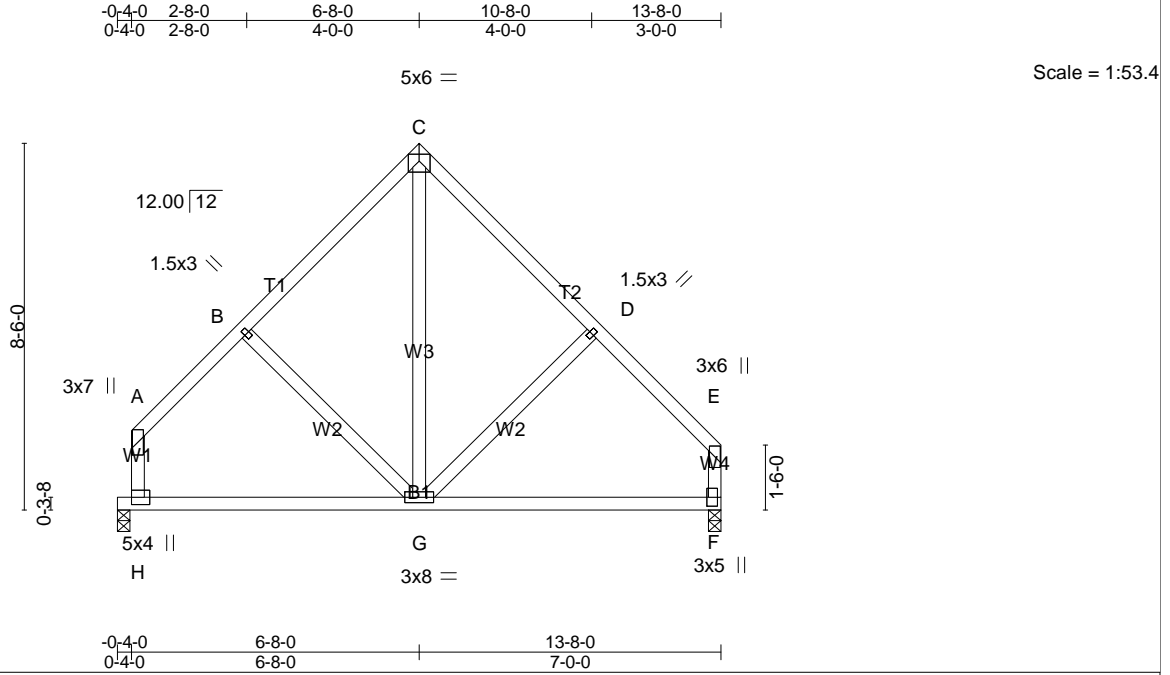


Plate Offsets (X,Y)-- [F:0-2-8,0-0-8], [H:0-2-0,0-0-0]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.94 BC 0.40 WB 0.11 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.07 G >999 240 Vert(TL) -0.17 F-G >962 180 Horz(TL) 0.01 F n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 82 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) F=535/0-3-8 (min. 0-1-8), H=535/0-3-8 (min. 0-1-8)  
 Max Horz H=256(LC 3)  
 Max Uplift F=63(LC 5), H=66(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-489/115, B-C=-369/150, C-D=-376/151, D-E=-510/117, A-H=-445/94, E-F=-444/94  
 BOT CHORD F-G=-13/278  
 WEBS C-G=-89/251

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint F and 66 lb uplift at joint H.
  - 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.

**LOAD CASE(S)** Standard



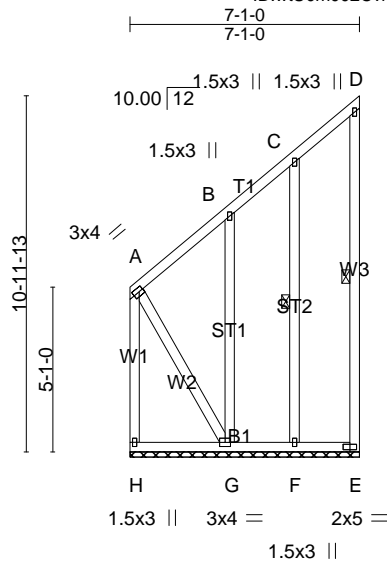
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss E1	Truss Type GABLE	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

Job Reference (optional)  
8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:17 2017 Page 1  
ID:wtU0m002CvnP9KkLnVkyYw5y7knd-kdpLm86mv9AFiukFj389aplJCBzhu5gtVLEfH7yJa5C



Scale = 1:71.1

Plate Offsets (X,Y)-- [A:0-1-8,0-1-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.21 BC 0.07 WB 0.18 Matrix-P	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) -0.00 E n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 78 lb FT = 4%
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**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt D-E, C-F

**REACTIONS.** All bearings 7-1-0.  
(lb) - Max Horz H=216(LC 5)  
Max Uplift All uplift 100 lb or less at joint(s) H, E, F except G=-475(LC 5)  
Max Grav All reactions 250 lb or less at joint(s) E, F, G except H=487(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-H=-473/24  
WEBS A-G=-35/418

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, E, F except (jt=lb) G=475.
  - 10) 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.

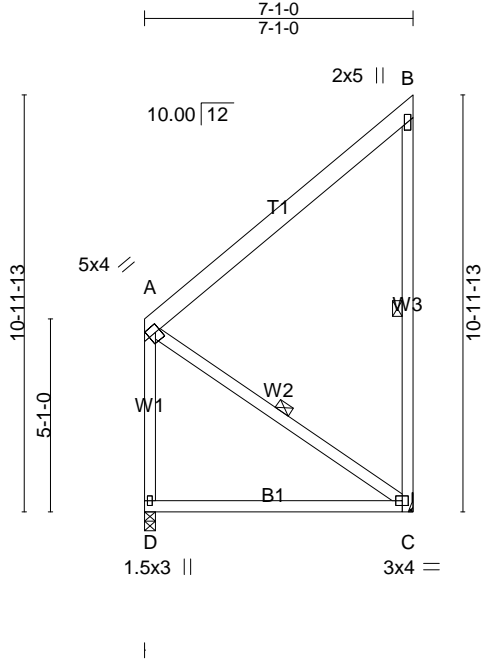


Job 67046806	Truss E2	Truss Type MONOPITCH	Qty 6	Ply 1	MCKEE / THE WINSTON EURO
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

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Scale = 1:60.7

Plate Offsets (X,Y)-- [A:0-1-8,0-2-4]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/def L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.13 C-D >639 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(TL) -0.32 C-D >255 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(TL) -0.00 C n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-MP		Weight: 66 lb	FT = 4%

**LUMBER-**  
TOP CHORD 2x6 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 7-1-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt B-C, A-C

**REACTIONS.** (lb/size) D=272/0-3-8 (min. 0-1-8), C=272/Mechanical  
Max Horz D=307(LC 5)  
Max Uplift C=321(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
BOT CHORD C-D=-261/62  
WEBS A-C=-75/319

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) C=321.
  - 5) 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.

**LOAD CASE(S)** Standard



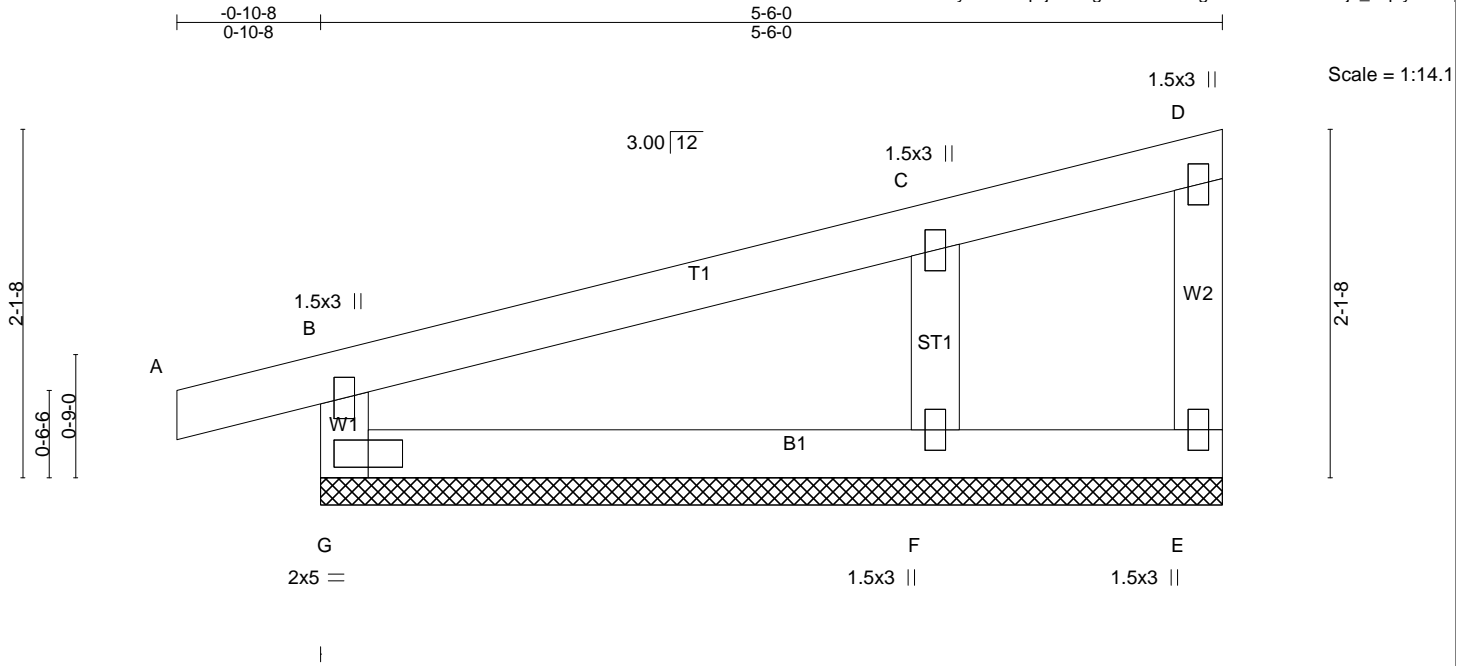
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss G1	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

Job Reference (optional)  
8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:18 2017 Page 1  
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<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.12 BC 0.09 WB 0.04 Matrix-R	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) 0.00 A n/r 120 Vert(TL) 0.01 A n/r 90 Horz(TL) -0.00 E n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 22 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) G=192/5-6-0 (min. 0-1-8), E=15/5-6-0 (min. 0-1-8), F=271/5-6-0 (min. 0-1-8)  
Max Horz G=75(LC 4)  
Max Uplift G=61(LC 3), E=-3(LC 4), F=-56(LC 5)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) Truss designed for wind loads in the plane of the truss only.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Bearing at joint(s) G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, E, F.
  - 10) 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.

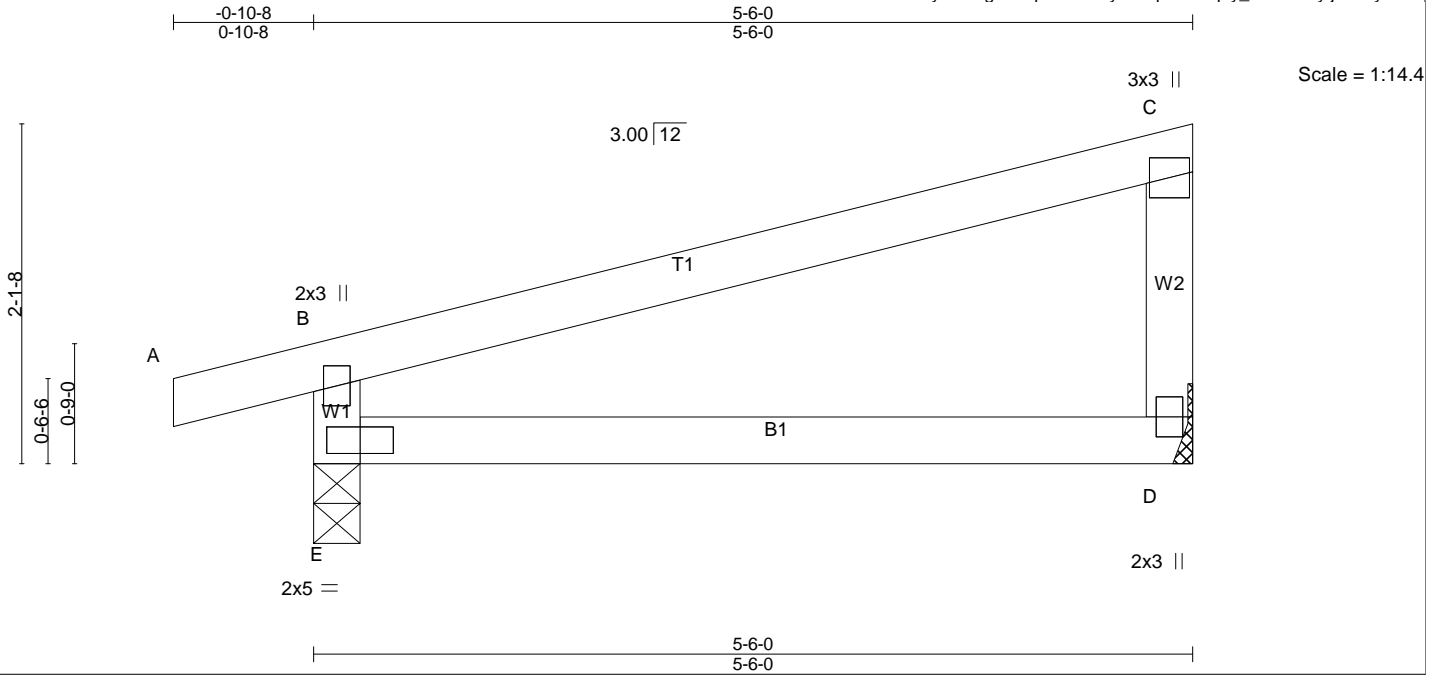


Job 67046806	Truss G2	Truss Type Monopitch	Qty 6	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

Job Reference (optional)

8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:19 2017 Page 1  
ID:wtU0m002CvnP9KkLnVkyYw5y7knd-g0x6Ap70RnQzyBueqUBdfEqdy\_dQM129yfjmM0yJa5A



<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.33 BC 0.24 WB 0.00 Matrix-MR	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.03 D-E >999 240 Vert(TL) -0.07 D-E >922 180 Horz(TL) 0.00 D n/a n/a	<b>PLATES</b> GRIP MT20 244/190  Weight: 21 lb FT = 4%
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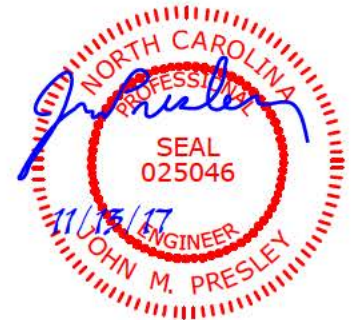
<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) D=202/Mechanical, E=276/0-3-8 (min. 0-1-8)  
Max Horz E=75(LC 4)  
Max Uplift D=-39(LC 5), E=-78(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E.
  - 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.

**LOAD CASE(S)** Standard



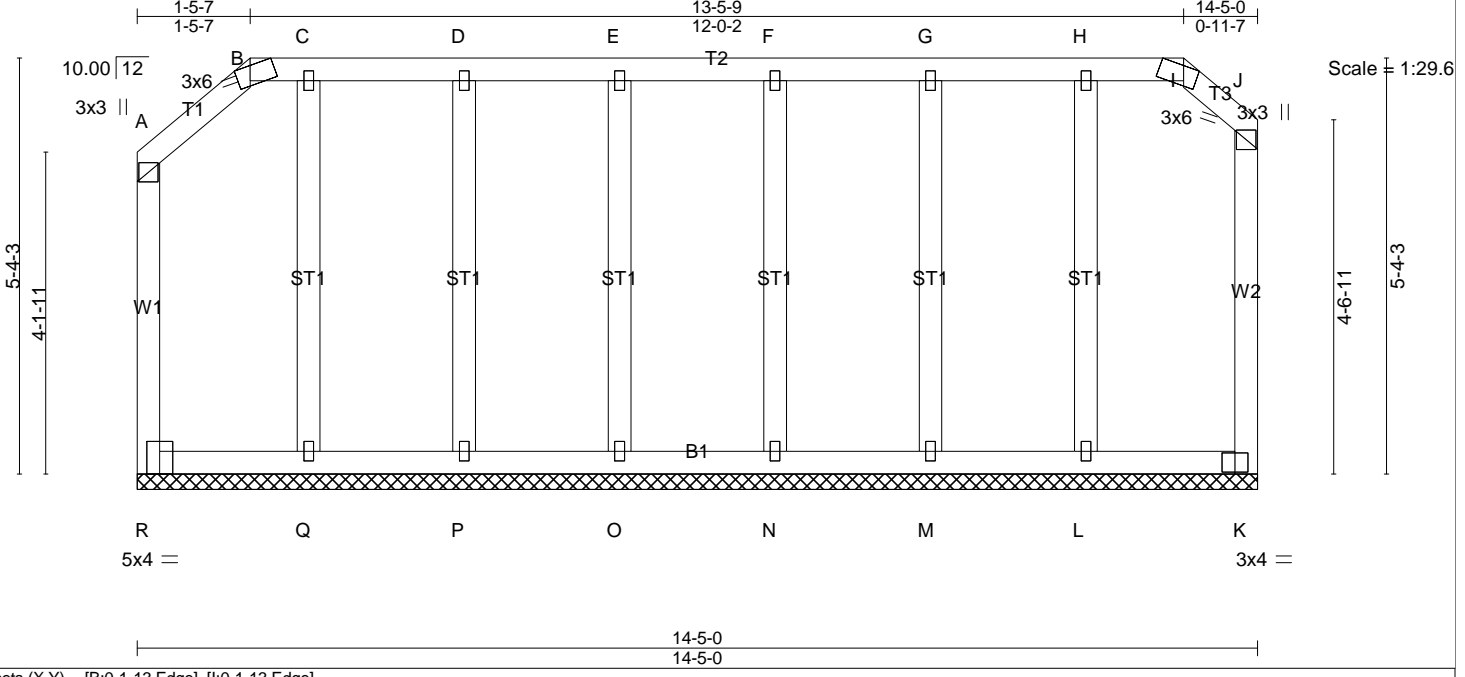
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





Job <b>67046806</b>	Truss <b>H1</b>	Truss Type <b>Hip Supported Gable</b>	Qty <b>1</b>	Ply <b>1</b>	<b>MCKEE / THE WINSTON EURO</b>
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:20 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyYW5y7knd-8CVUO98eC4YqZLTqOBisCSNlcOzW5TDJBjTJuSyJa59



<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/def L/d	MT20	244/180
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(TL) 0.00 K n/a n/a		
	Code IRC2009/TPI2007			Weight: 99 lb	FT = 4%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); B-1.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 14-5-0.  
 (lb) - Max Horz R=204(LC 4)  
 Max Uplift All uplift 100 lb or less at joint(s) O, N, M except R=146(LC 3), K=133(LC 4), P=106(LC 3), Q=253(LC 4), L=206(LC 3)  
 Max Grav All reactions 250 lb or less at joint(s) R, K, O, P, Q, N, M, L

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - Truss designed for wind loads in the plane of the truss only.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 1.5x3 MT20 unless otherwise indicated.
  - The solid section of the plate is required to be placed over the splice line at joint(s) K.
  - Plate(s) at joint(s) K checked for a plus or minus 5 degree rotation about its center.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) R, K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) O, N, M except (jt=lb) R=146, K=133, P=106, Q=253, L=206.
  - 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.
  - 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



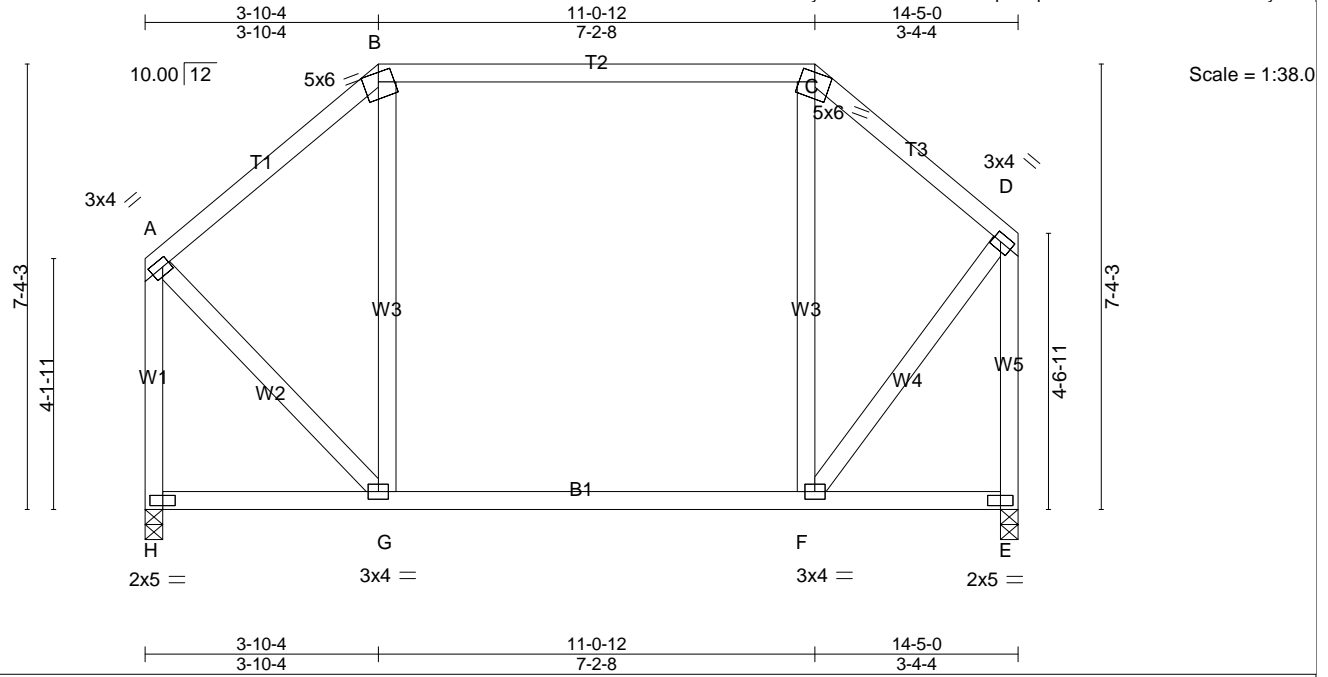


Plate Offsets (X,Y)-- [A:0-1-8,0-1-8], [D:0-1-8,0-1-8]

<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.82	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) 0.21 G >826 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Vert(TL) -0.22 F-G >764 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(TL) 0.00 E n/a n/a		
	Code IRC2009/TPI2007			Weight: 94 lb	FT = 4%

<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-13 max.): B-C. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
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**REACTIONS.** (lb/size) H=698/0-3-8 (min. 0-1-8), E=708/0-3-8 (min. 0-1-8)  
 Max Horz H=261(LC 4)  
 Max UpliftH=43(LC 3), E=61(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-484/96, B-C=-326/110, C-D=-447/101, A-H=-692/106, D-E=-755/129  
 BOT CHORD F-G=-145/326  
 WEBS A-G=-173/462, D-F=-195/544

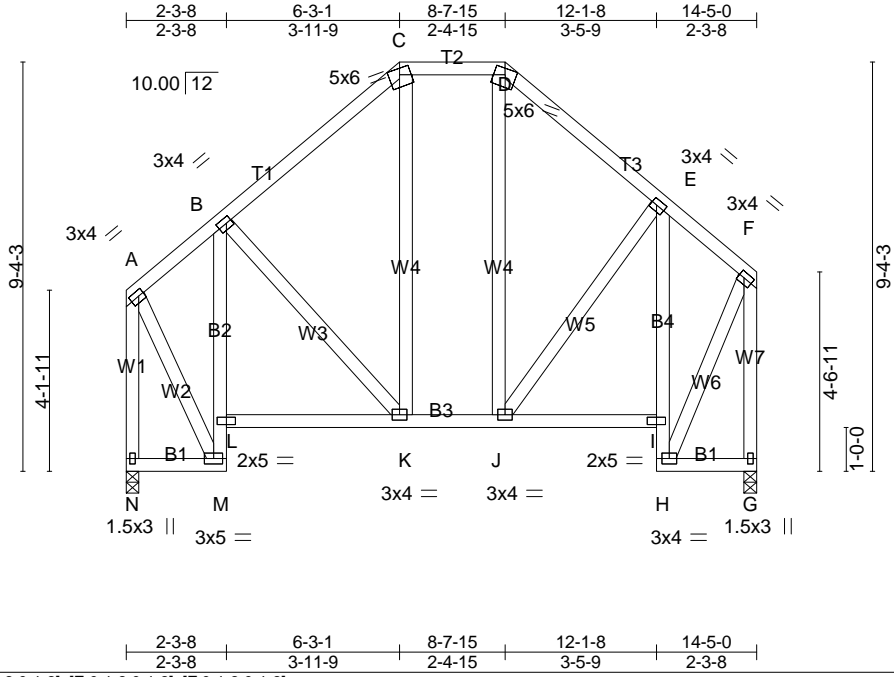
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Bearing at joint(s) H, E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, E.
  - 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) 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



Job 67046806	Truss H3	Truss Type Hip	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:21 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7knd-cP3sbV9GyOghBV20yvD5kfw?LoE2qvoSPzCtQuyJa58



Scale = 1:52.7

Plate Offsets (X,Y)-- [A:0-1-8,0-1-8], [B:0-1-8,0-1-8], [E:0-1-8,0-1-8], [F:0-1-8,0-1-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.20 BC 0.49 WB 0.18 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) 0.08 K-L >999 240 Vert(TL) -0.09 K-L >999 180 Horz(TL) 0.09 G n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 131 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* B2,B4: 2x4 SP No.3 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-D. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: L-M,H-I.
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**REACTIONS.** (lb/size) N=565/0-3-8 (min. 0-1-8), G=565/0-3-8 (min. 0-1-8)  
 Max Horz N=318(LC 4)  
 Max UpliftN=56(LC 6), G=61(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-280/85, B-C=-413/137, D-E=-398/151, E-F=-263/90, A-N=-582/68, F-G=-577/70  
 BOT CHORD M-N=-268/273, L-M=-320/69, B-L=-288/105, K-L=-269/316, H-I=-327/49, E-I=-313/112  
 WEBS A-M=-10/424, F-H=-39/417

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 3) Provide adequate drainage to prevent water ponding.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N, G.
  - 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) 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss H4	Truss Type Roof Special	Qty 2	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:21 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7knd-cP3sbV9GyOghBV20yvD5kfwzNoDW/qvgSPzCtQuyJa58

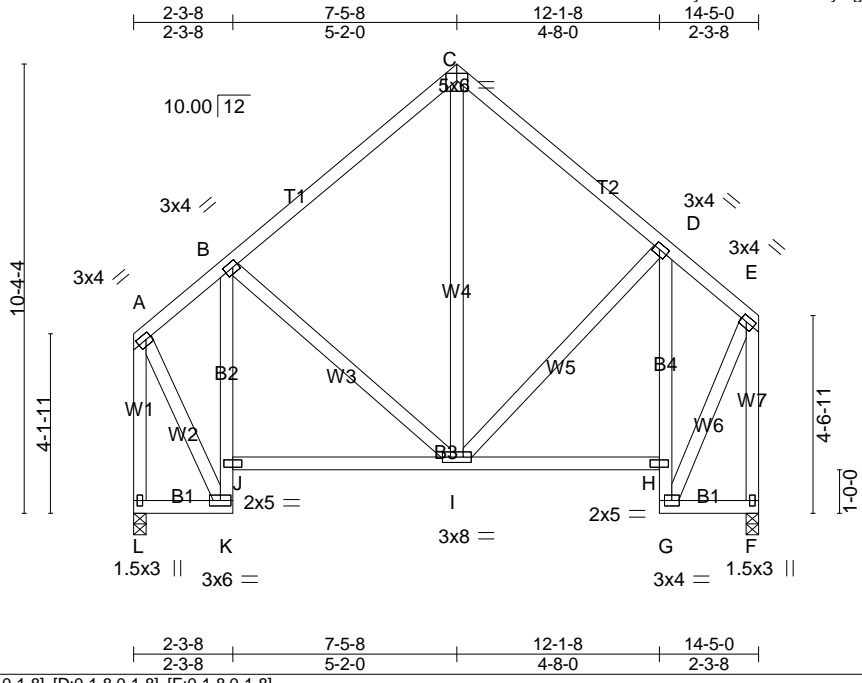


Plate Offsets (X,Y)-- [A:0-1-8,0-1-8], [B:0-1-8,0-1-8], [D:0-1-8,0-1-8], [E:0-1-8,0-1-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.33 BC 0.52 WB 0.18 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) 0.04 I-J >999 240 Vert(TL) -0.08 I-J >999 180 Horz(TL) 0.09 F n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 124 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B2,B4: 2x4 SP No.3  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) L=565/0-3-8 (min. 0-1-8), F=565/0-3-8 (min. 0-1-8)  
 Max Horz L=346(LC 4)  
 Max Uplift L=69(LC 6), F=76(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-268/81, B-C=-418/152, C-D=-405/166, D-E=-259/95, A-L=-584/70, E-F=-580/87  
 BOT CHORD K-L=-295/300, J-K=-336/54, B-J=-300/73, I-J=-279/357, G-H=-340/39, D-H=-313/61  
 WEBS A-K=-26/444, E-G=-29/436

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L, F.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss H5	Truss Type Common	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 Job Reference (optional)  
 8.030 s Apr 8 2017 M/Tek Industries, Inc. Mon Nov 13 15:08:22 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7knd-5bdEprAvjioYpfdDWckKHtS1LCarZMncedyQzLyJa57

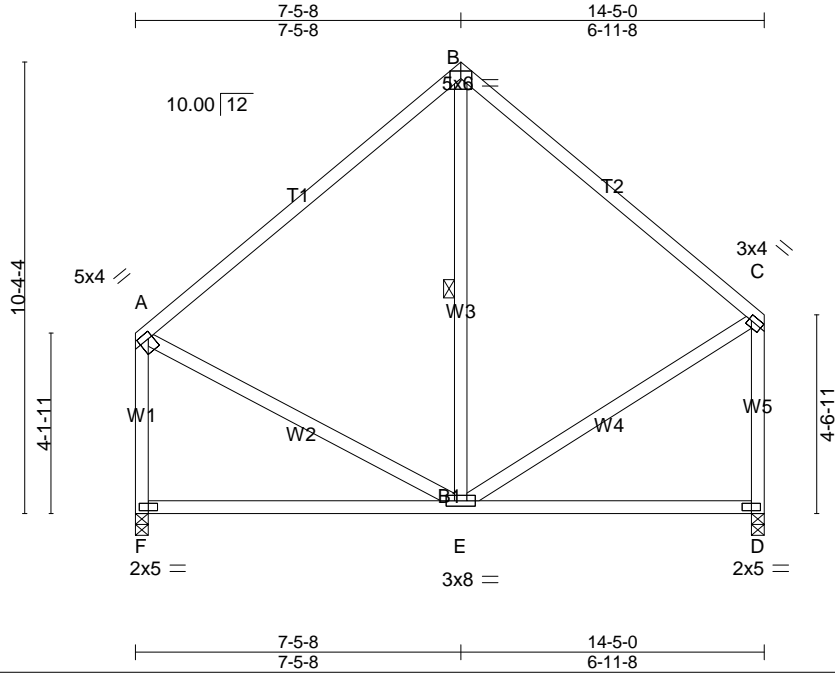


Plate Offsets (X,Y)-- [A:0-1-4,0-1-12], [C:0-0-12,0-1-8]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.83 BC 0.45 WB 0.13 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.07 E-F >999 240 Vert(TL) -0.16 E-F >999 180 Horz(TL) 0.00 D n/a n/a	<b>PLATES</b> MT20 Weight: 99 lb	<b>GRIP</b> 244/190 FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

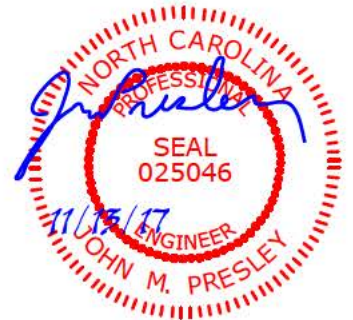
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt B-E

**REACTIONS.** (lb/size) F=565/0-3-8 (min. 0-1-8), D=565/0-3-8 (min. 0-1-8)  
 Max Horz F=346(LC 4)  
 Max Uplift F=69(LC 6), D=-76(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-432/148, B-C=-419/152, A-F=500/106, C-D=507/109  
 BOT CHORD E-F=-315/321

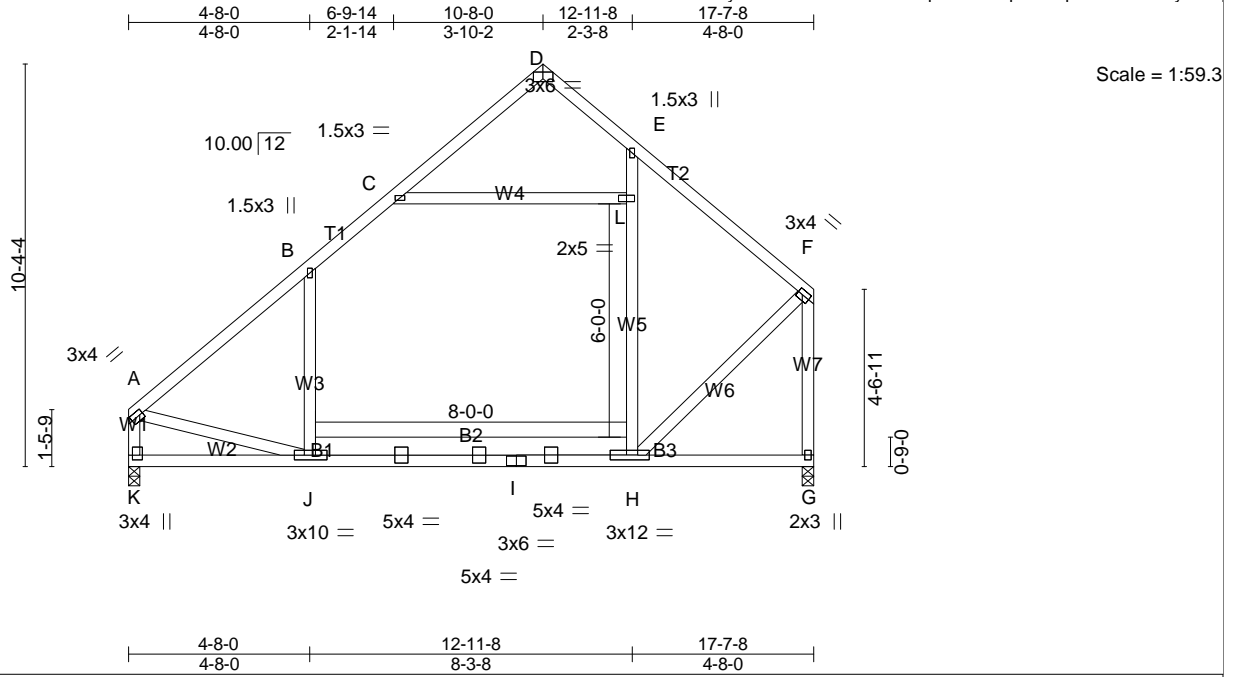
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Bearing at joint(s) F, D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F, D.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) 0.32 J-K >644 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(TL) -0.54 J-K >384 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(TL) 0.01 G n/a n/a		
	Code IRC2009/TPI2007		Attic -0.16 H-J 624 360	Weight: 130 lb	FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B1: 2x4 SP No.1, B2: 2x6 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 W3,W4: 2x4 SP No.2, W5: 2x4 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS.** (lb/size) K=735/0-3-8 (min. 0-1-8), G=735/0-3-8 (min. 0-1-8)  
 Max Horz K=298(LC 5)  
 Max UpliftK=45(LC 8), G=71(LC 8)  
 Max GravK=786(LC 17), G=814(LC 16)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-777/64, B-C=-595/133, E-F=-599/148, A-K=-693/55, F-G=-875/127  
 BOT CHORD J-K=-332/399, I-J=-66/550, H-I=-66/550  
 WEBS C-L=-398/163, A-J=-80/424, F-H=-66/666

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Ceiling dead load (5.0 psf) on member(s). B-C, C-L
  - 7) Bottom chord live load (20.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. H-J
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K, G.
  - 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) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

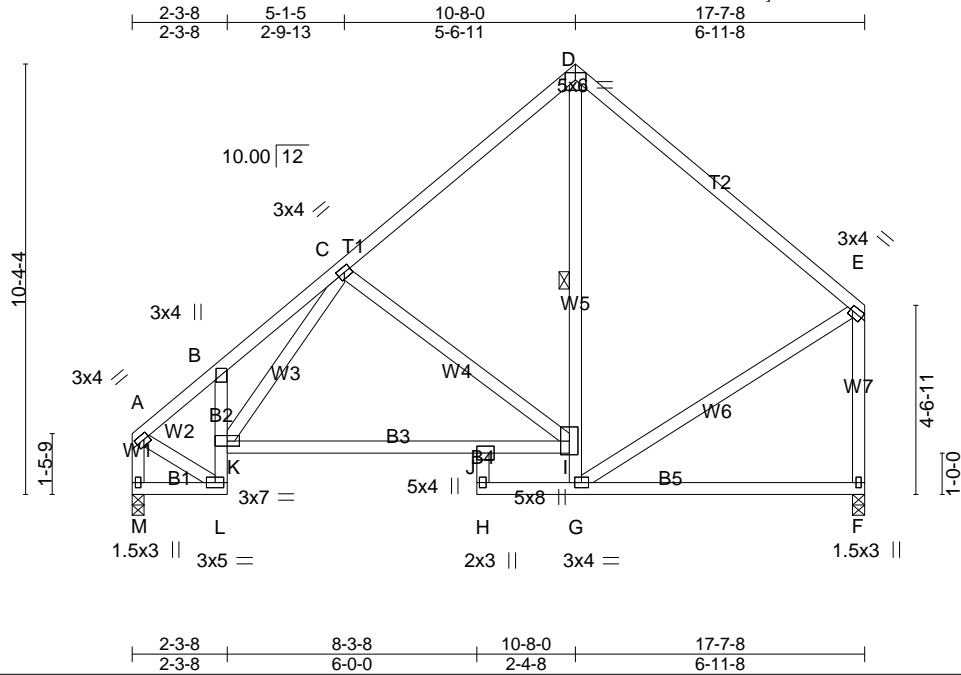
**LOAD CASE(S)** Standard



Job 67046806	Truss H7	Truss Type Roof Special	Qty 2	Ply 1	MCKEE / THE WINSTON EURO
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:23 2017 Page 1  
 ID:wU0m002CvnP9KkLnVkyW5y7knd-ZnBc0BAXU?wPQpCP3JFZq4?DYbpflf1tHhzVnyJa56



Scale = 1:55.4

Plate Offsets (X,Y)-- [A:0-1-8,0-1-8], [E:0-0-12,0-1-8], [J:0-2-0,0-0-0]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> Plate Grip DOL 2-0-0 Lumber DOL 1.15 Rep Stress Incr 1.15 Code IRC2009/TPI2007 YES	<b>CSI.</b> TC 0.73 BC 0.93 WB 0.77 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.16 J-K >999 240 Vert(TL) -0.49 J-K >428 180 Horz(TL) 0.22 F n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 123 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 *Except* B4: 2x4 SP No.3 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 1 Row at midpt D-G
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**REACTIONS.** (lb/size) M=693/0-3-8 (min. 0-1-8), F=693/0-3-8 (min. 0-1-8)  
 Max Horz M=351(LC 4)  
 Max Uplift M=-70(LC 5), F=-96(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-639/95, B-C=-882/201, C-D=-535/169, D-E=-540/168, A-M=-742/100, E-F=-646/127  
 BOT CHORD L-M=-333/292, J-K=-238/560, I-J=-157/360  
 WEBS C-K=-153/268, A-L=-28/473, D-I=-52/301, E-G=-72/338, C-I=-310/229

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M, F.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



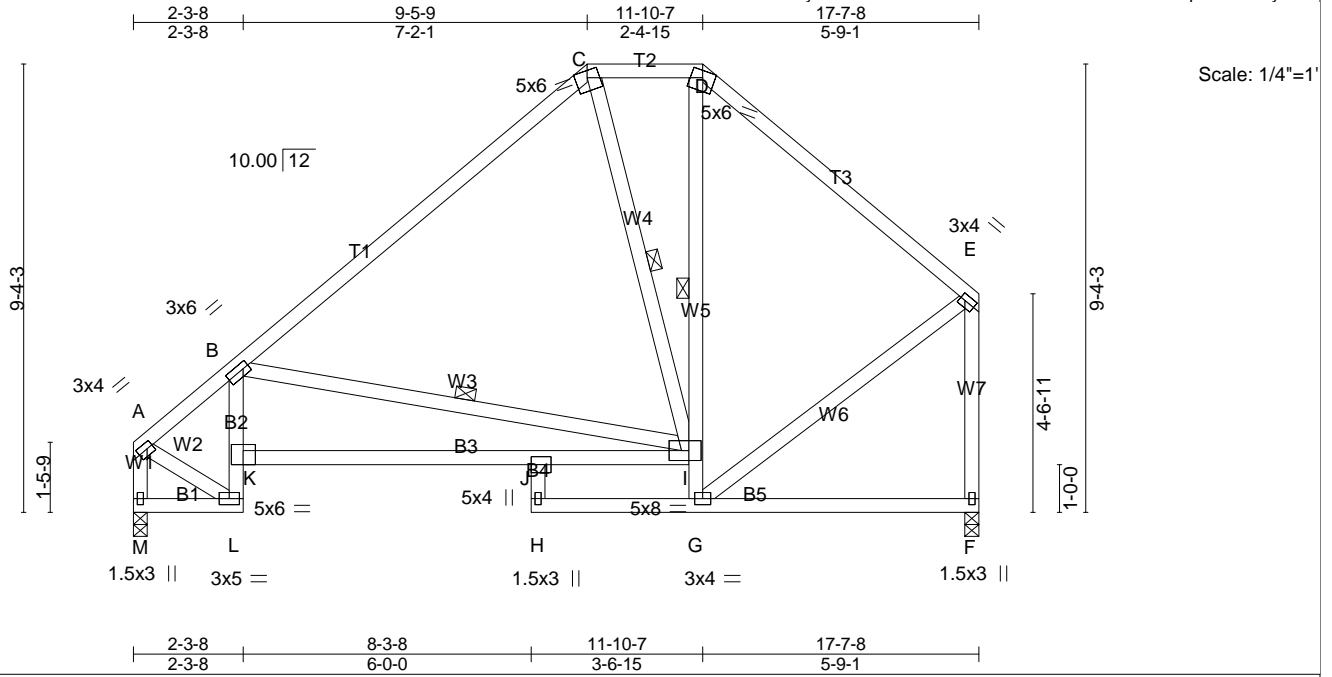


Plate Offsets (X,Y)-- [A:0-1-8,0-1-8], [B:0-1-8,0-1-8], [E:0-1-4,0-1-8], [J:0-2-0,0-0-0]

<b>LOADING (psf)</b> TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.66 BC 0.84 WB 0.80 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.24 J-K >879 240 Vert(TL) -0.67 J-K >309 180 Horz(TL) 0.24 F n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 130 lb FT = 4%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B2: 2x4 SP No.1, B4: 2x4 SP No.3  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-10-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); C-D.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt B-I, C-I, D-G

**REACTIONS.** (lb/size) M=693/0-3-8 (min. 0-1-8), F=693/0-3-8 (min. 0-1-8)  
 Max Horz M=323(LC 4)  
 Max Uplift M=70(LC 5), F=-81(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-652/107, B-C=-597/132, C-D=-336/156, D-E=-524/143, A-M=-746/100, E-F=-661/104  
 BOT CHORD L-M=-291/254, J-K=-409/843, I-J=-303/649  
 WEBS B-I=-516/318, A-L=-105/576, E-G=-73/374

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 3) Provide adequate drainage to prevent water ponding.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M, F.
  - 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) 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





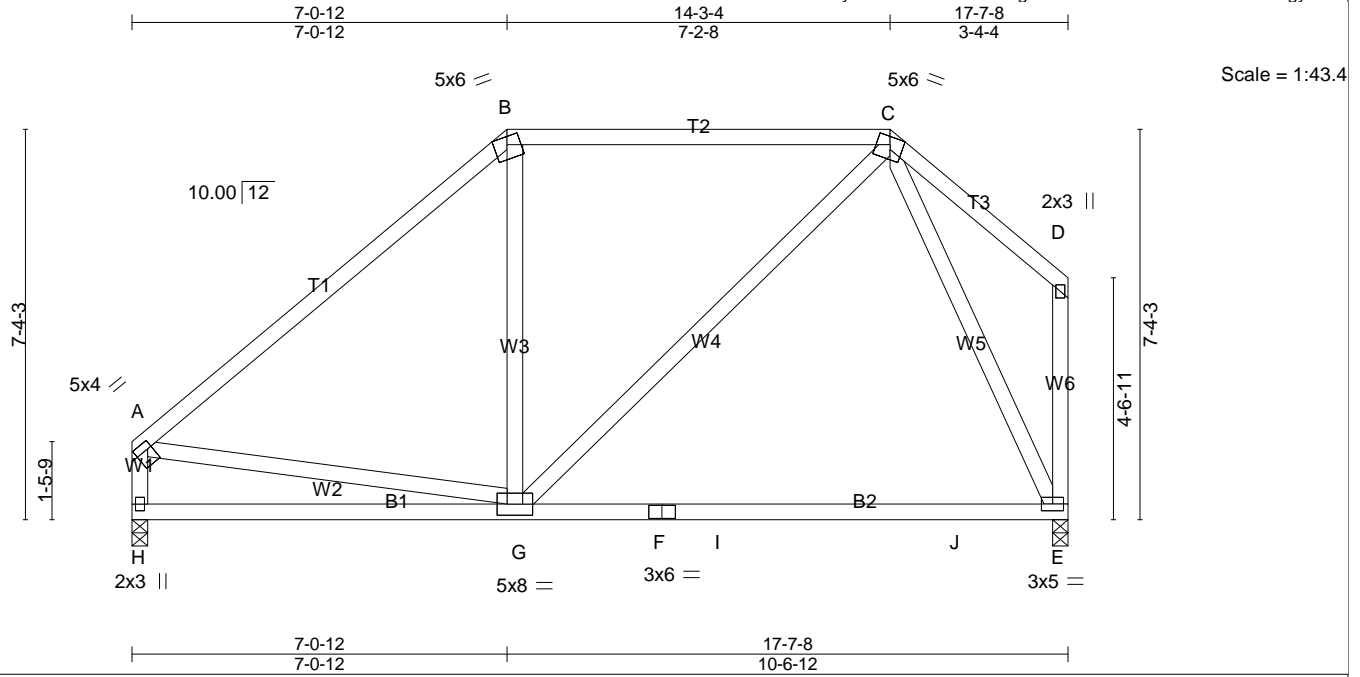


Plate Offsets (X,Y)-- [A:0-1-0,0-1-12]

<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 20.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) -0.38 E-G >547 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(TL) -0.76 E-G >275 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(TL) 0.01 E n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-MSH			
				Weight: 111 lb	FT = 4%

<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-12 max.); B-C. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) H=735/0-3-8 (min. 0-1-8), E=828/0-3-8 (min. 0-1-8)  
Max Horz H=266(LC 4)  
Max Uplift H=66(LC 5), E=63(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=807/80, B-C=518/145, A-H=710/95  
BOT CHORD G-H=296/255, F-G=124/286, F-I=124/286, I-J=124/286, E-J=124/286  
WEBS C-G=73/350, A-G=105/419, C-E=583/238

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 3) Provide adequate drainage to prevent water ponding.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, E.
  - 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) 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



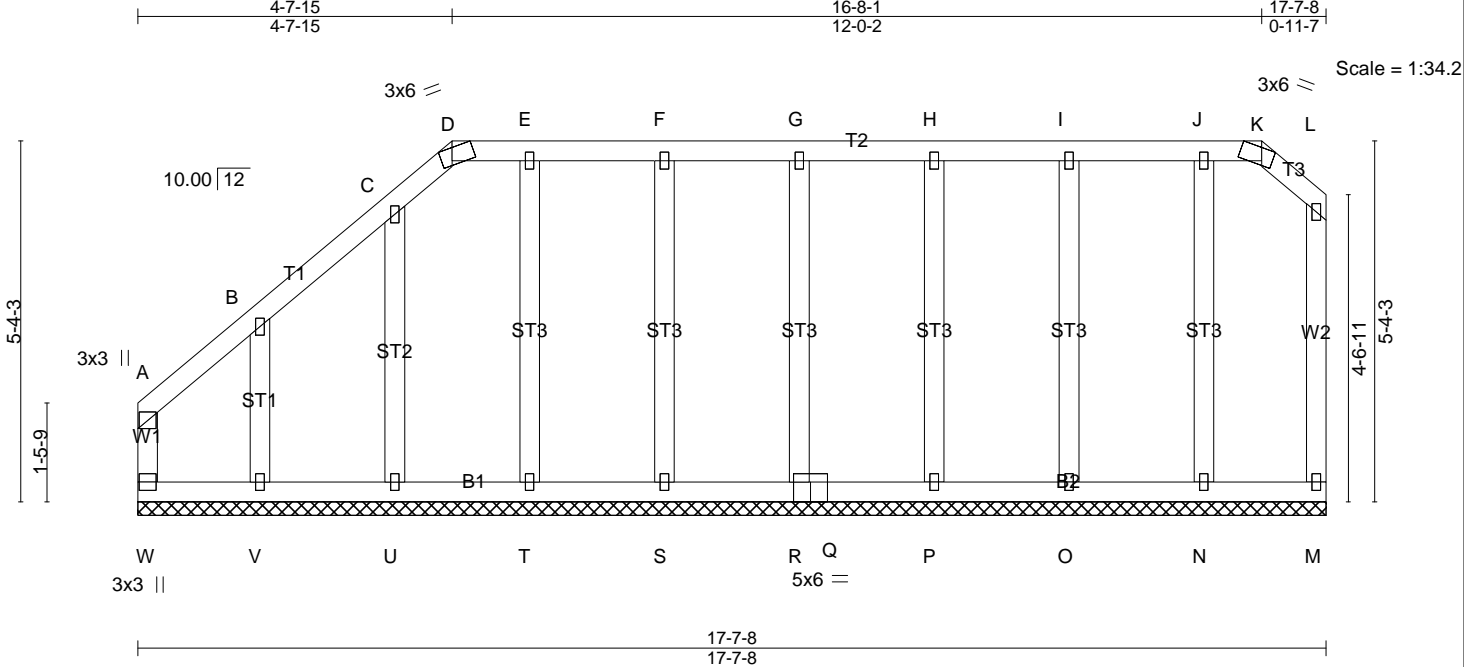


Plate Offsets (X,Y)-- [D:0-1-13,Edge], [K:0-1-13,Edge], [Q:0-0-0-1-12], [R:0-1-12,0-0-0]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> Plate Grip DOL 2-0-0 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.27 BC 0.16 WB 0.06 Matrix-R	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 M n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 116 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-K. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** All bearings 17-7-8.  
 (lb) - Max Horz W=208(LC 4)  
 Max Uplift All uplift 100 lb or less at joint(s) M, S, T, U, R, P, O, N except W=-125(LC 3), V=-196(LC 5)  
 Max Grav All reactions 250 lb or less at joint(s) W, M, S, T, U, V, R, P, O, N

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 3) Truss designed for wind loads in the plane of the truss only.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 8) Gable studs spaced at 2-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M, S, T, U, R, P, O, N except (jt=lb) W=125, V=196.
  - 12) 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.
  - 13) 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



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss K1	Truss Type Common Supported Gable	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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Job Reference (optional)  
8,030 s Apr 8 2017 Mitek Industries, Inc. Mon Nov 13 15:08:26 2017 Page 1  
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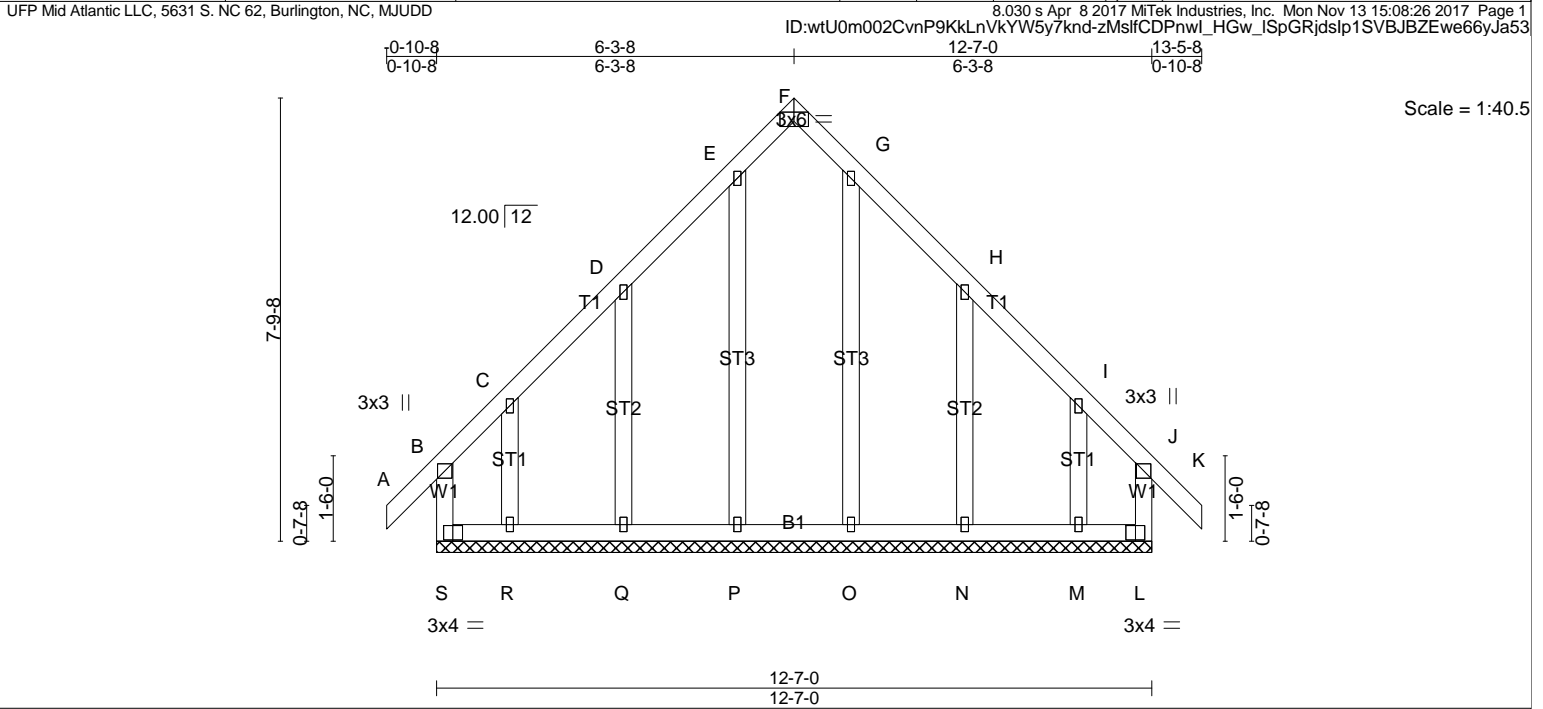


Plate Offsets (X,Y)-- [F:0-3-0,Edge]

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.25 BC 0.15 WB 0.09 Matrix-R	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.00 K n/r 120 Vert(TL) -0.01 K n/r 90 Horz(TL) 0.00 L n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 91 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** All bearings 12-7-0.  
(lb) - Max Horz S=235(LC 4)  
Max Uplift All uplift 100 lb or less at joint(s) except S=-185(LC 3), L=-170(LC 4), Q=-137(LC 5), R=-229(LC 4), N=-138(LC 6), M=-221(LC 6)  
Max Grav All reactions 250 lb or less at joint(s) L, P, Q, R, O, N, M except S=253(LC 4)

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

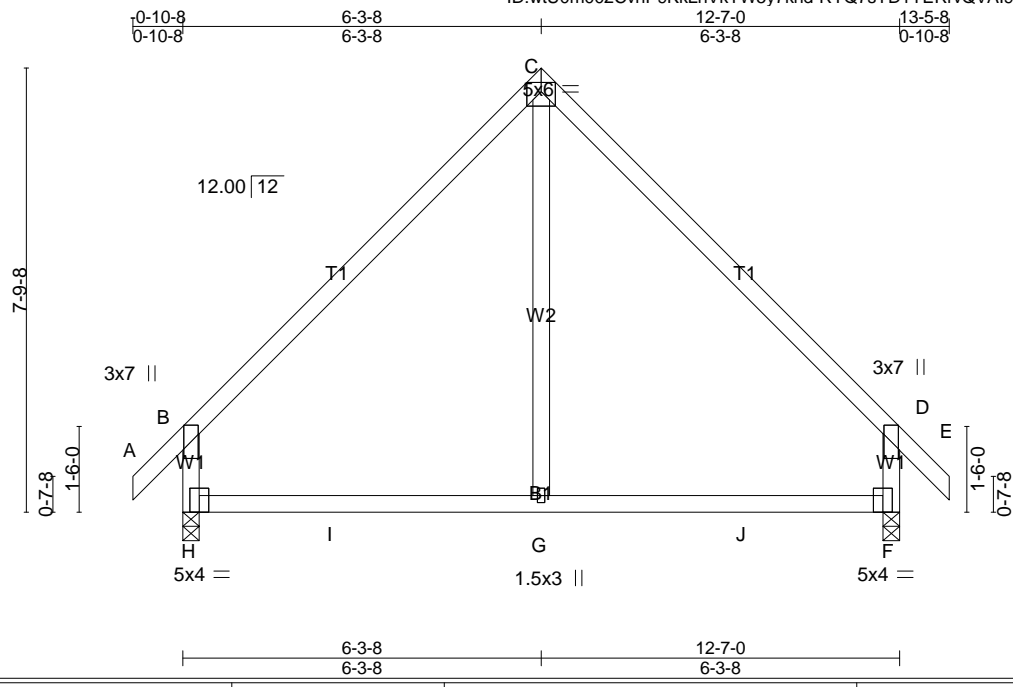
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - All plates are 1.5x3 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) S, L considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint S, 170 lb uplift at joint L, 137 lb uplift at joint Q, 229 lb uplift at joint R, 138 lb uplift at joint N and 221 lb uplift at joint M.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





Scale = 1:40.4

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.95	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.08 G-H >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(TL) -0.13 G-H >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Horz(TL) 0.01 F n/a n/a		
	Code IRC2009/TPI2007			Weight: 63 lb	FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) H=696/0-3-8 (min. 0-1-8), F=696/0-3-8 (min. 0-1-8)  
 Max Horz H=235(LC 3)  
 Max Uplift H=85(LC 5), F=85(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-592/134, C-D=-592/134, B-H=-589/153, D-F=-589/153  
 BOT CHORD H-I=-41/309, G-I=-41/309, G-J=-41/309, F-J=-41/309  
 WEBS C-G=0/324

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Bearing at joint(s) H, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint H and 85 lb uplift at joint F.
  - 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.

**LOAD CASE(S)** Standard



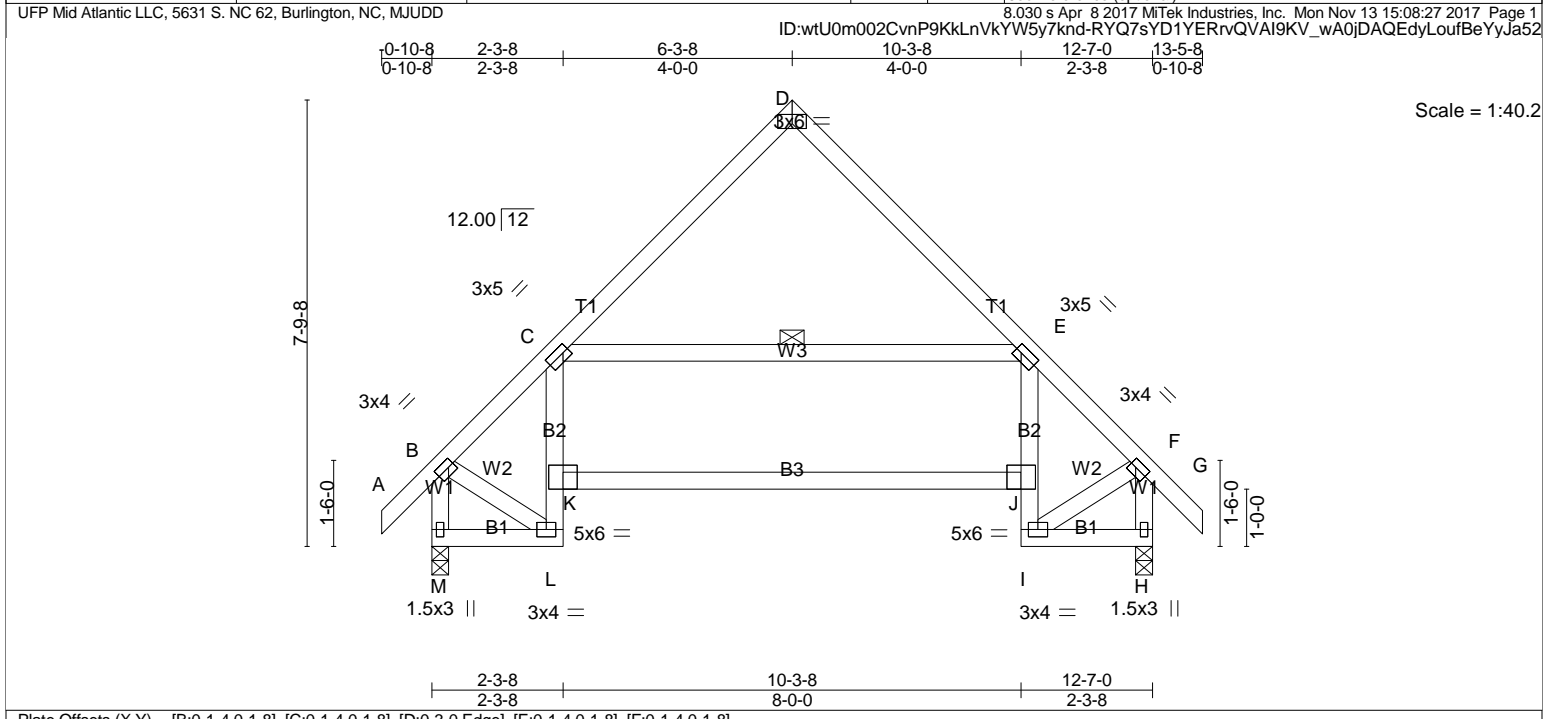


Plate Offsets (X,Y)-- [B:0-1-4,0-1-8], [C:0-1-4,0-1-8], [D:0-3-0,Edge], [E:0-1-4,0-1-8], [F:0-1-4,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 1.00	Vert(LL) -0.17 J-K >881 240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Vert(TL) -0.44 J-K >333 180		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-MSH	Horz(TL) 0.13 H n/a n/a		
					Weight: 80 lb	FT = 4%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B2: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: J-K.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt C-E

**REACTIONS.** (lb/size) M=553/0-3-8 (min. 0-1-8), H=553/0-3-8 (min. 0-1-8)  
Max Horz M=235(LC 3)  
Max Uplift M=85(LC 5), H=85(LC 6)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-434/82, C-D=-259/96, D-E=-259/96, E-F=-434/88, B-M=-583/98, F-H=-583/80  
BOT CHORD J-K=-63/402  
WEBS C-E=-289/129, B-L=-32/320, F-I=-37/320

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint M and 85 lb uplift at joint H.
  - 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.

**LOAD CASE(S)** Standard



Job 67046806	Truss K4	Truss Type Common Girder	Qty 1	Ply 2	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:28 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7knd-vl\_V3uEfJYZhXa4MstrkX8i33cWFzJU0YPkA\_yJa51

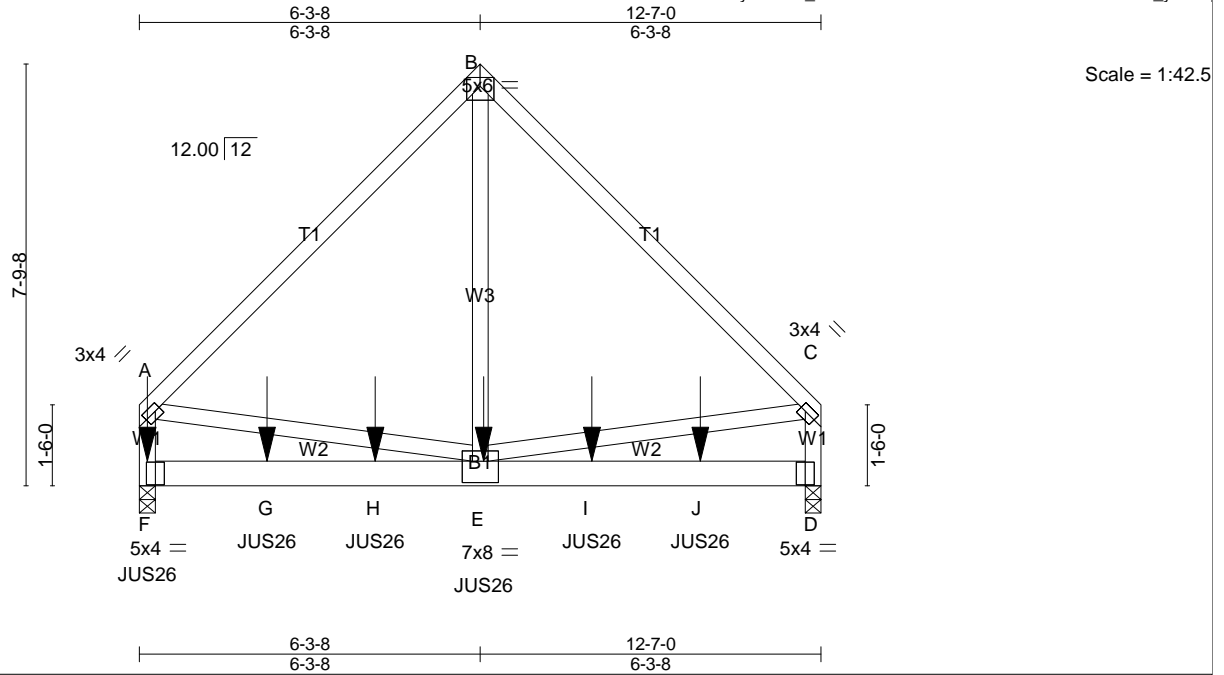


Plate Offsets (X,Y)-- [A:0-1-4,0-1-8], [C:0-1-4,0-1-8], [E:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.81	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.06 D-E >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.57	Vert(TL) -0.13 D-E >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(TL) 0.00 D n/a n/a		
	Code IRC2009/TPI2007			Weight: 175 lb	FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

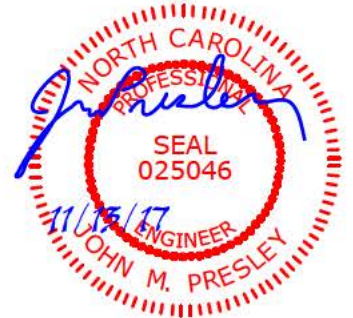
**REACTIONS.** (lb/size) F=3564/0-3-8 (min. 0-1-8), D=2711/0-3-8 (min. 0-1-8)  
 Max Horz F=-227(LC 11)  
 Max Uplift F=-253(LC 6), D=-202(LC 5)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=-2341/236, B-C=-2341/236, A-F=-1974/187, C-D=-1973/187  
 BOT CHORD F-G=-292/421, G-H=-292/421, E-H=-292/421, E-I=-107/427, I-J=-107/427, D-J=-107/427  
 WEBS B-E=-137/2770, A-E=-152/1192, C-E=-156/1186

- 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 0-9-0 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.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) F, D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint F and 202 lb uplift at joint D.
  - 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.
  - Use USP JUS26 (With 10d nails into Girder & 10d nails into Truss) or equivalent spaced at 2-2-8 oc max. starting at 0-1-12 from the left end to 10-4-4 to connect truss(es) H6 (1 ply 2x4 SP) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.

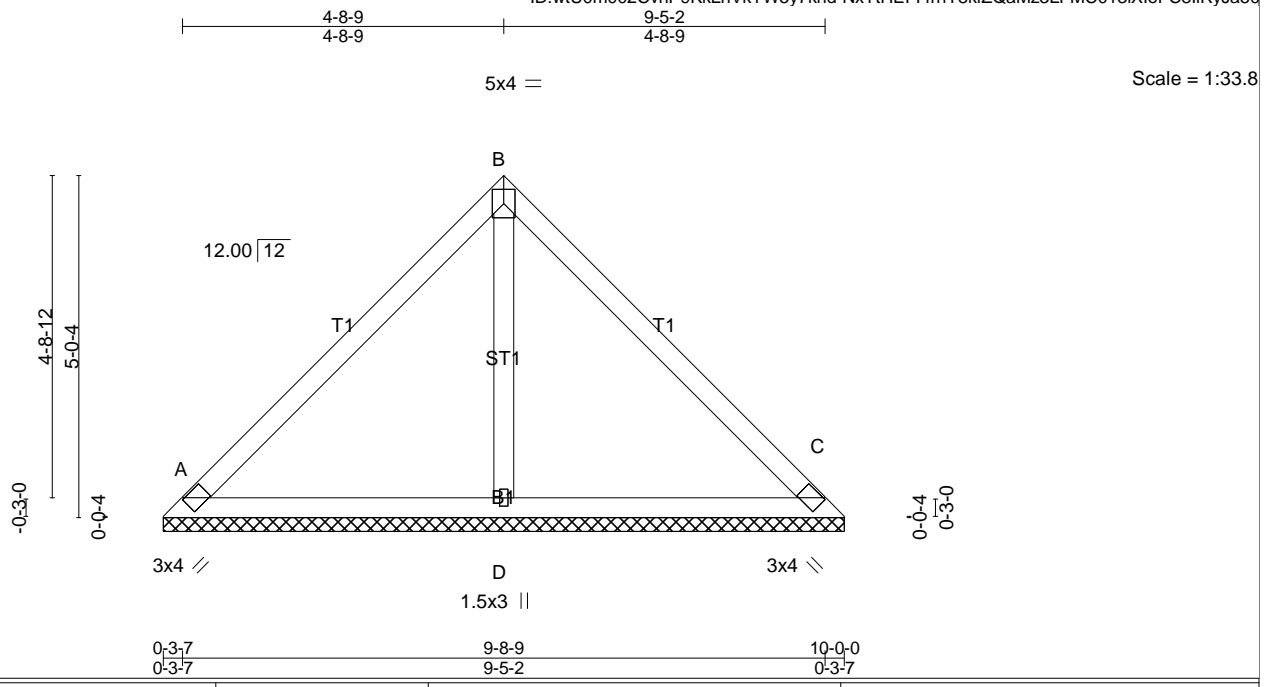
**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced) + Attic Floor: Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: A-B=-60, B-C=-60, D-F=-20  
 Concentrated Loads (lb)  
 Vert: E=-881(F) F=-889(F) G=-881(F) H=-881(F) I=-881(F) J=-881(F)



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.28	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.00 C n/a n/a		
	Code IRC2009/TPI2007			Weight: 41 lb	FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) A=203/10-0-0 (min. 0-1-8), C=203/10-0-0 (min. 0-1-8), D=342/10-0-0 (min. 0-1-8)  
 Max Horz A=-134(LC 3)  
 Max Uplift A=-36(LC 6), C=-36(LC 6), D=-23(LC 5)

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

- NOTES-** (7)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 3) Gable requires continuous bottom chord bearing.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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.
  - 7) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.

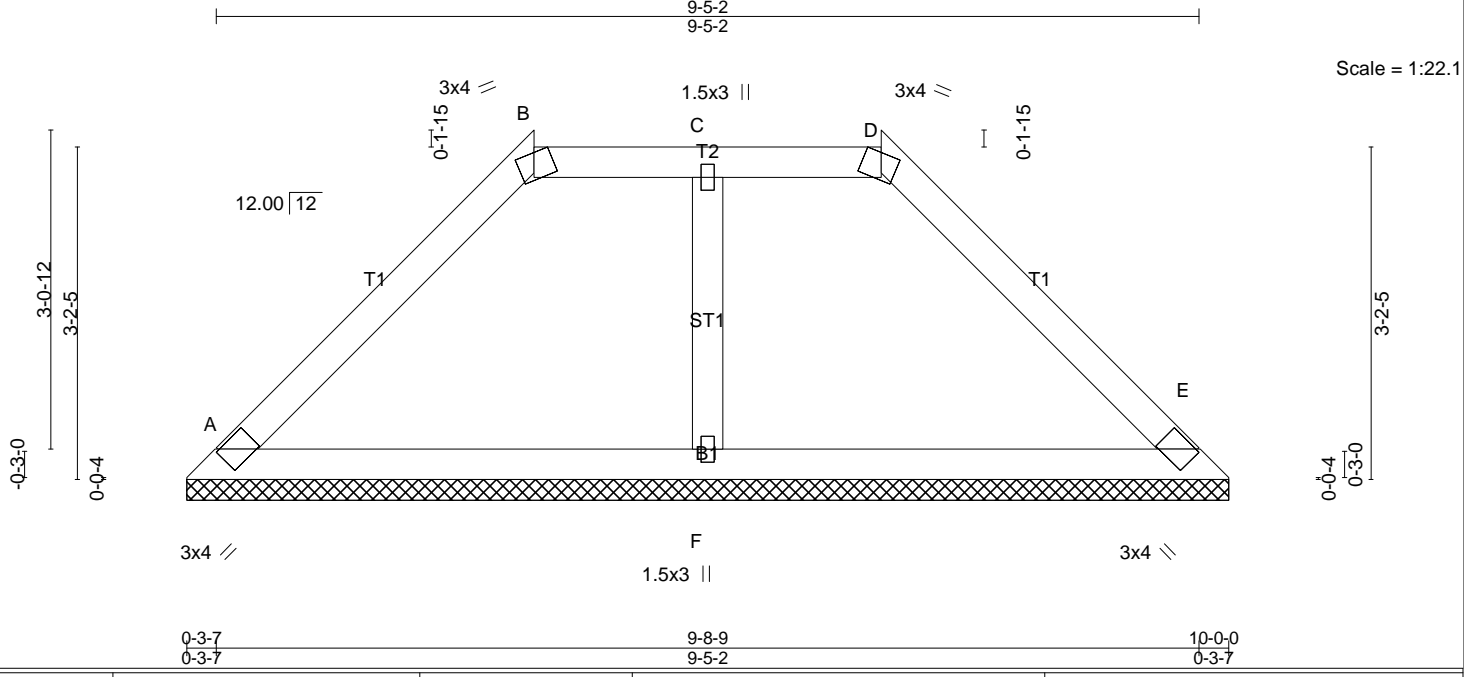
**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.00 E n/a n/a		
	Code IRC2009/TPI2007			Weight: 37 lb	FT = 4%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.); B-D.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) A=258/10-0-0 (min. 0-1-8), E=258/10-0-0 (min. 0-1-8), F=231/10-0-0 (min. 0-1-8)  
 Max Horz A=84(LC 3)  
 Max Uplift A=54(LC 5), E=55(LC 6), F=8(LC 4)  
 Max Grav A=258(LC 1), E=258(LC 1), F=245(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=262/86, D-E=262/84

- NOTES-** (11)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 3) Truss designed for wind loads in the plane of the truss only.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Gable studs spaced at 4-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 11) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.

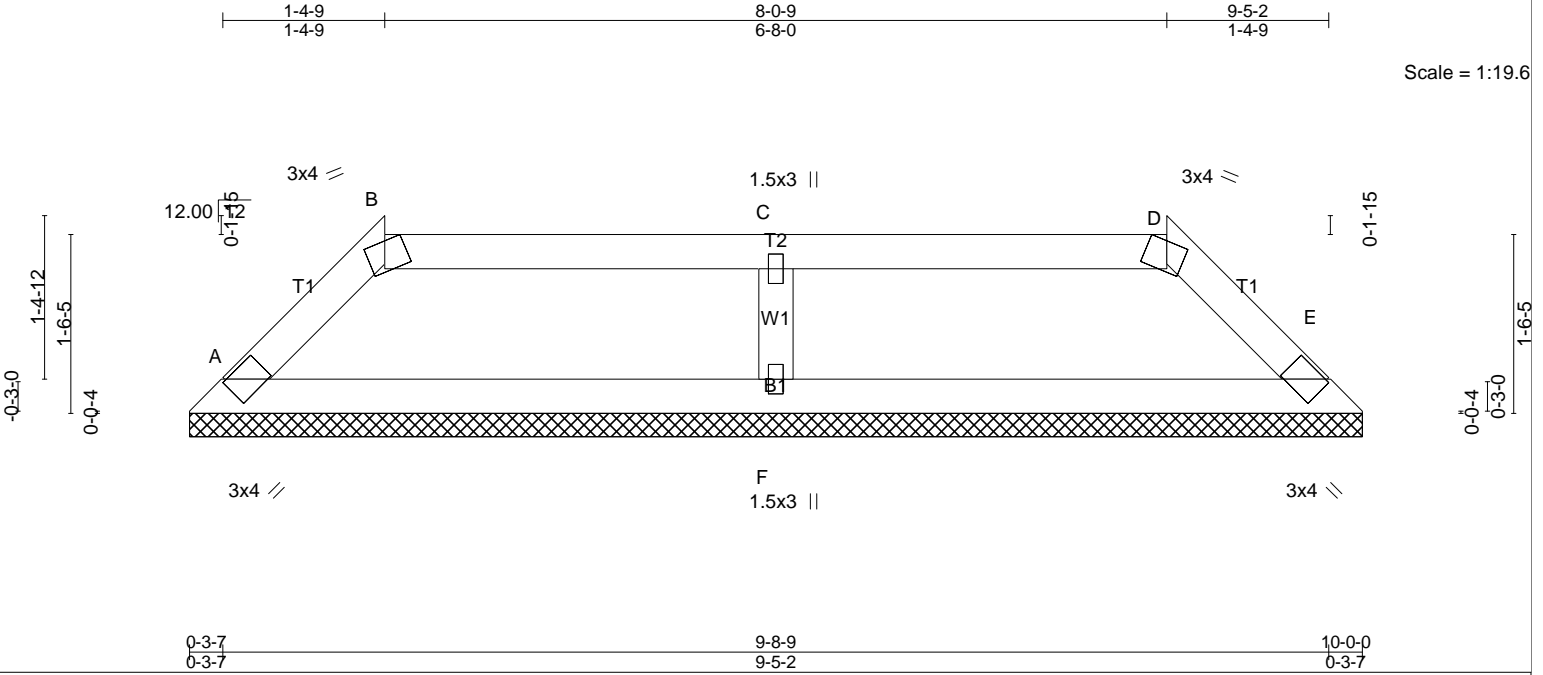
**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.







<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.00 E n/a n/a		
	Code IRC2009/TPI2007			Weight: 32 lb	FT = 4%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); B-D.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) A=202/10-0-0 (min. 0-1-8), E=202/10-0-0 (min. 0-1-8), F=344/10-0-0 (min. 0-1-8)  
Max Horz A=-36(LC 3)  
Max Uplift A=-30(LC 4), E=-31(LC 3), F=-72(LC 4)

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

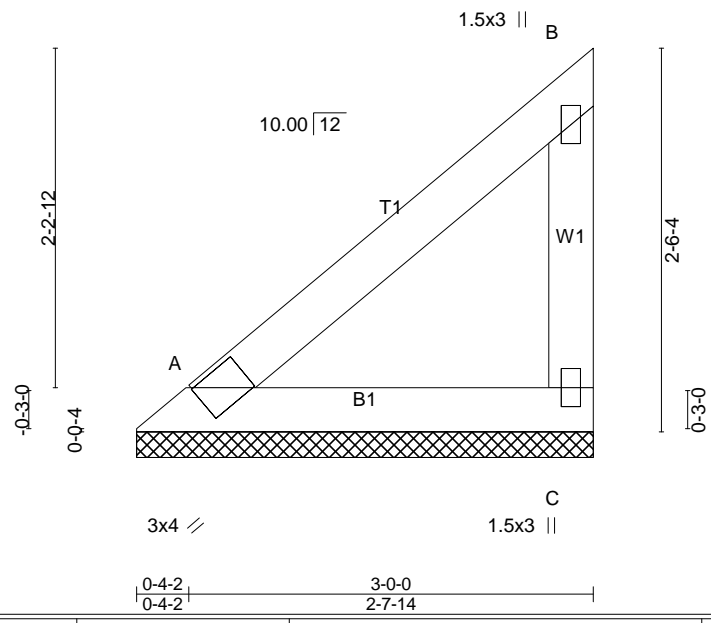
- NOTES-** (9)
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 9) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





Scale = 1:15.1

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 C n/a n/a		
	Code IRC2009/TPI2007			Weight: 12 lb	FT = 4%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) A=99/3-0-0 (min. 0-1-8), C=99/3-0-0 (min. 0-1-8)  
Max Horz A=77(LC 4)  
Max Uplift A=-1(LC 5), C=-34(LC 5)

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

- NOTES-** (6)
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) 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.
  - 6) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.

**LOAD CASE(S)** Standard

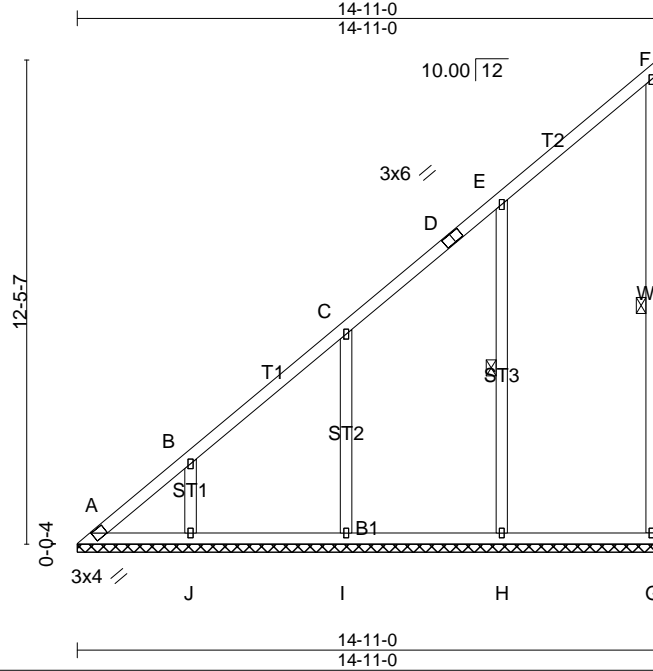


Job 67046806	Truss V1	Truss Type VALLEY	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

Job Reference (optional)  
8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:31 2017 Page 1

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Scale = 1:59.2

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.21	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.00 G n/a n/a		
	Code IRC2009/TPI2007			Weight: 91 lb	FT = 4%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt F-G, E-H

**REACTIONS.** All bearings 14-11-0.  
(lb) - Max Horz A=457(LC 5)  
Max Uplift All uplift 100 lb or less at joint(s) G, A except H=174(LC 5), I=163(LC 5), J=148(LC 5)  
Max Grav All reactions 250 lb or less at joint(s) G except A=347(LC 5), H=529(LC 1), I=397(LC 1), J=282(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=-562/61, B-C=-424/77, C-D=-258/8  
WEBS E-H=-258/227

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) G, A except (jt=lb) H=174, I=163, J=148.
  - 6) Non Standard bearing condition. Review required.
  - 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.

**LOAD CASE(S)** Standard



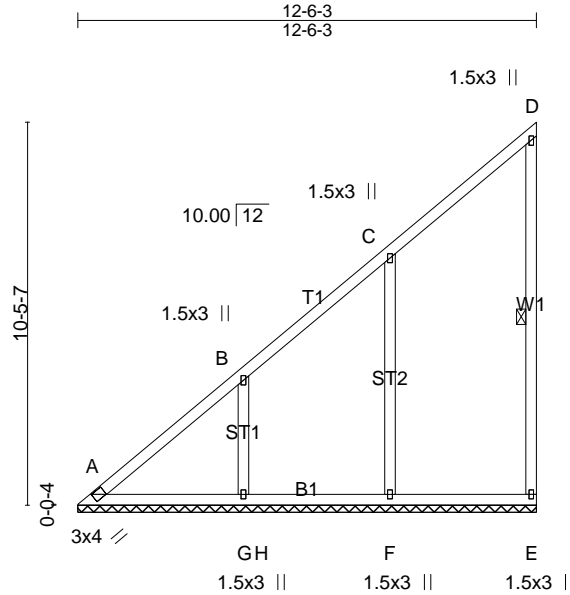
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss V2	Truss Type VALLEY	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

Job Reference (optional)  
8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:31 2017 Page 1  
ID:wtU0m002CvnP9KkLnVkyW5y7knd-KKfeiwHYcTxGO1pxX?OR8mKilqjAPWwjVdPnJyJa5\_



Scale = 1:62.9

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.21 BC 0.21 WB 0.22 Matrix-SH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 E n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 71 lb FT = 4%
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**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt D-E

**REACTIONS.** All bearings 12-6-3.  
(lb) - Max Horz A=381(LC 5)  
Max Uplift All uplift 100 lb or less at joint(s) E except F=-167(LC 5), G=-185(LC 5)  
Max Grav All reactions 250 lb or less at joint(s) A, E except F=516(LC 1), G=420(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=-428/83, B-C=-256/73  
WEBS C-F=-254/224, B-G=-257/219

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous bottom chord bearing.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) E except (it=lb) F=167, G=185.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



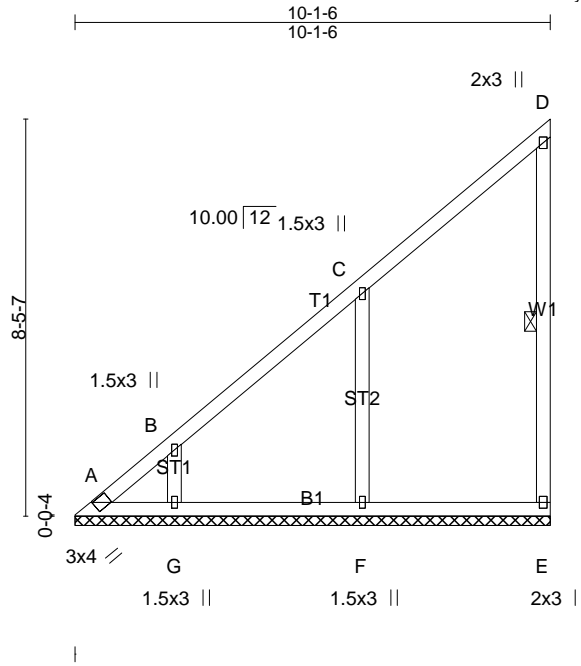
Job 67046806	Truss V3	Truss Type Valley	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

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Job Reference (optional)

8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:32 2017 Page 1



Scale = 1:49.1

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.52 BC 0.18 WB 0.12 Matrix-SH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 E n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 54 lb FT = 4%
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**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt D-E

**REACTIONS.** All bearings 10-1-6.  
(lb) - Max Horz A=297(LC 4)  
Max Uplift All uplift 100 lb or less at joint(s) A, E except F=-181(LC 5), G=-132(LC 5)  
Max Grav All reactions 250 lb or less at joint(s) A, E, G except F=451(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=-297/161  
WEBS C-F=-266/214

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) A, E except (jt=lb) F=181, G=132.
  - 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.

**LOAD CASE(S)** Standard



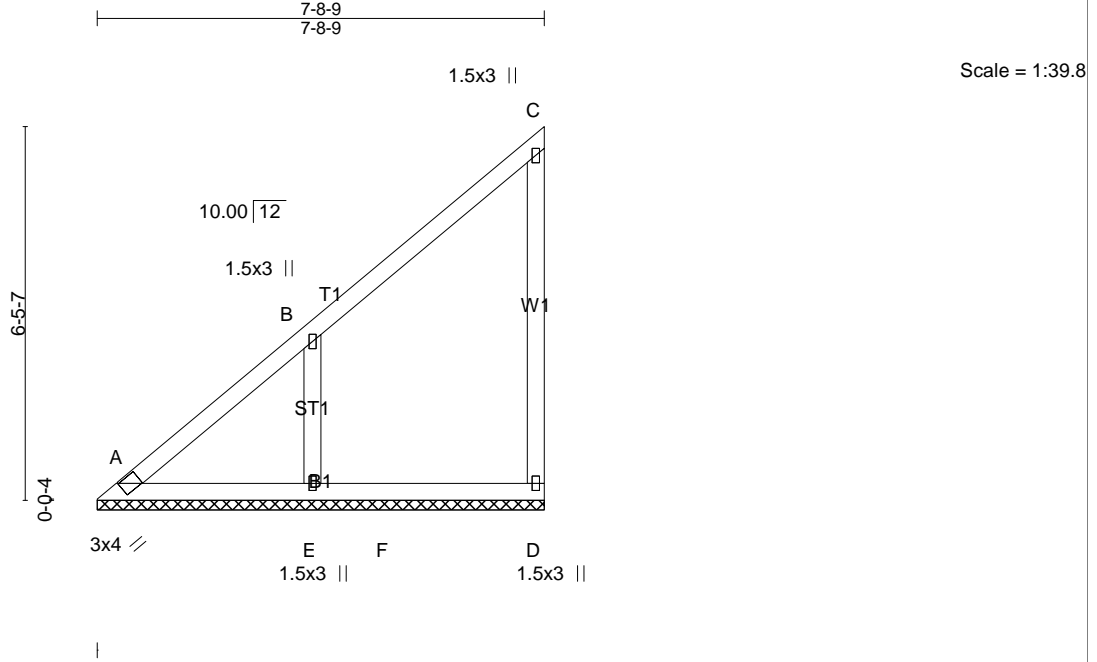
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss V4	Truss Type Valley	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

Job Reference (optional)  
8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:32 2017 Page 1  
ID:wtU0m002CvnP9KkLnVkyW5y7knd-oWD0vGHANm37?BO85iwgh\_tqNE4OvuA4xANyImyJa4z



<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.41 BC 0.18 WB 0.07 Matrix-P	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 D n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 38 lb FT = 4%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) A=86/7-8-9 (min. 0-1-8), D=182/7-8-9 (min. 0-1-8), E=411/7-8-9 (min. 0-1-8)  
Max Horz A=223(LC 4)  
Max Uplift A=-41(LC 3), D=-58(LC 4), E=-183(LC 5)  
Max Grav A=132(LC 4), D=182(LC 1), E=411(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS B-E=-270/237

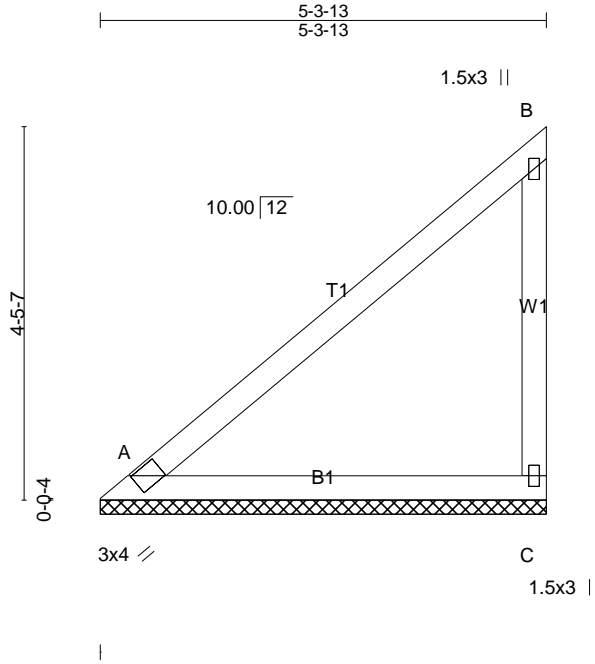
- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous bottom chord bearing.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) A, D except (jt=lb) E=183.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.





Scale = 1:27.5

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 C n/a n/a		
	Code IRC2009/TPI2007			Weight: 23 lb	FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-4-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) A=192/5-3-13 (min. 0-1-8), C=192/5-3-13 (min. 0-1-8)  
 Max Horz A=149(LC 4)  
 Max Uplift A=-2(LC 5), C=-65(LC 5)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
  - 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.

**LOAD CASE(S)** Standard

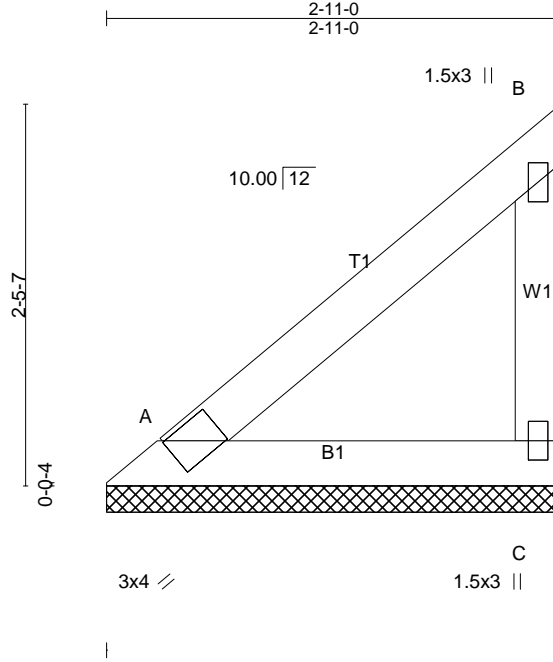


Job 67046806	Truss V6	Truss Type Valley	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

Job Reference (optional)

8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:33 2017 Page 1  
ID:wtU0m002CvnP9KkLnVkyW5y7knd-GinO7clo84B\_dLykFQRvEBQ4udStEMVDAq6VqCyJa4y



Scale = 1:14.8

<b>LOADING</b> (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	<b>CSI.</b> TC 0.10 BC 0.06 WB 0.00 Matrix-P	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) n/a - n/a 999 Vert(TL) n/a - n/a 999 Horz(TL) 0.00 C n/a n/a	<b>PLATES</b> MT20  Weight: 12 lb	<b>GRIP</b> 244/190  FT = 4%
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**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-11-5 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) A=96/2-11-0 (min. 0-1-8), C=96/2-11-0 (min. 0-1-8)  
Max Horz A=74(LC 4)  
Max Uplift A=-1(LC 5), C=-33(LC 5)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; 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) Gable requires continuous bottom chord bearing.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
  - 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.

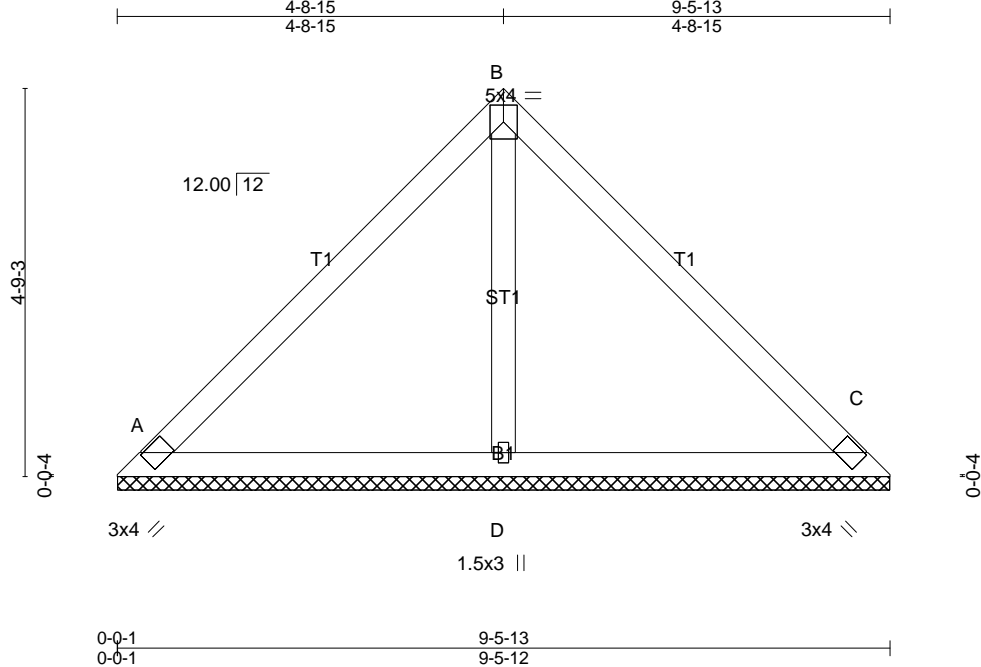
**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.







Scale = 1:28.3

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(TL) 0.00 C n/a n/a		
	Code IRC2009/TPI2007			Weight: 39 lb	FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 OTHERS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) A=191/9-5-11 (min. 0-1-8), C=191/9-5-11 (min. 0-1-8), D=323/9-5-11 (min. 0-1-8)  
 Max Horz A=127(LC 4)  
 Max Uplift A=-34(LC 6), C=-34(LC 6), D=-22(LC 5)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C, D.
  - Non Standard bearing condition. Review required.
  - 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.

**LOAD CASE(S)** Standard

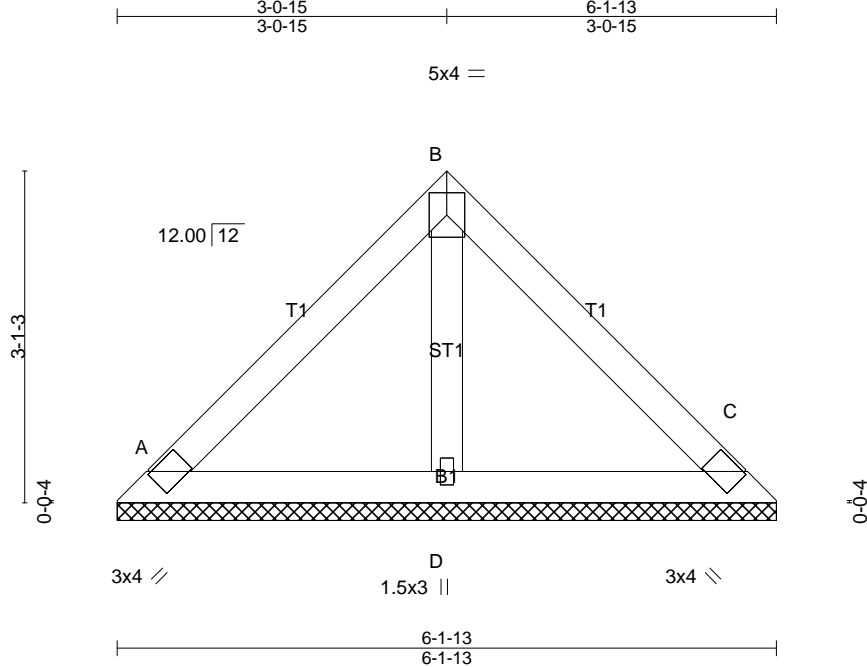


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.



Job 67046806	Truss V8	Truss Type Valley	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8.030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:34 2017 Page 1  
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Scale = 1:21.5

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 C n/a n/a		
	Code IRC2009/TPI2007			Weight: 24 lb	FT = 4%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) A=133/6-1-13 (min. 0-1-8), C=133/6-1-13 (min. 0-1-8), D=174/6-1-13 (min. 0-1-8)  
 Max Horz A=-79(LC 3)  
 Max Uplift A=-36(LC 6), C=-36(LC 6)

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

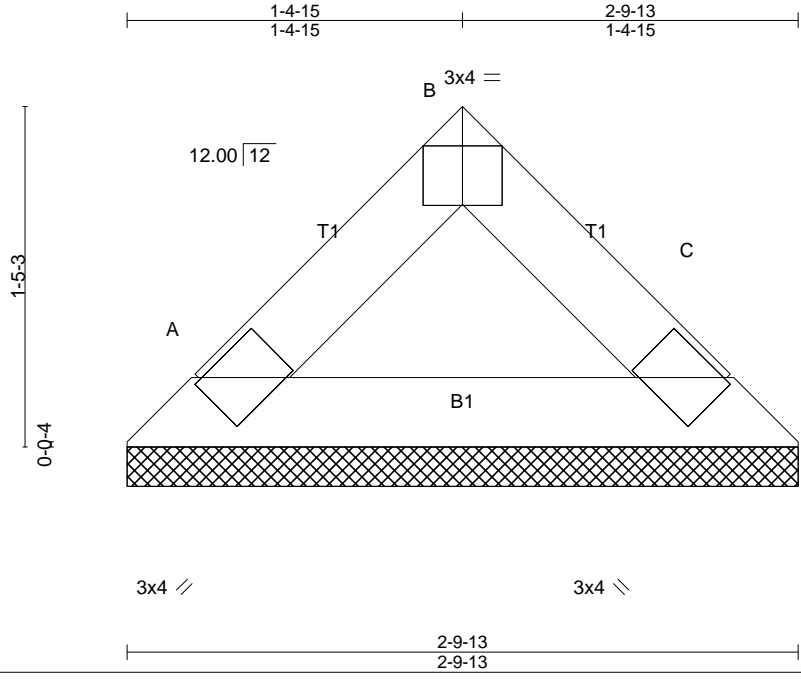
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
  - 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.

**LOAD CASE(S)** Standard



Job 67046806	Truss V9	Truss Type Valley	Qty 1	Ply 1	MCKEE / THE WINSTON EURO
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,030 s Apr 8 2017 MiTek Industries, Inc. Mon Nov 13 15:08:35 2017 Page 1  
 ID:wtU0m002CvnP9KkLnVkyW5y7Knd-C5v9XHk2fhRiff6imrTNJcVRiR766G?Wd8bcv4yJa4w



Scale = 1:9.7

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

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.02	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(TL) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 C n/a n/a		
	Code IRC2009/TPI2007			Weight: 9 lb	FT = 4%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-10-5 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) A=86/2-9-13 (min. 0-1-8), C=86/2-9-13 (min. 0-1-8)  
 Max Horz A=-31(LC 3)  
 Max Uplift A=-9(LC 6), C=-9(LC 5)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; 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
  - 3) Gable requires continuous bottom chord bearing.
  - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
  - 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.

**LOAD CASE(S)** Standard



This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFP company. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, delivery, erection and bracing available from SBCA and Truss Plate Institute.

