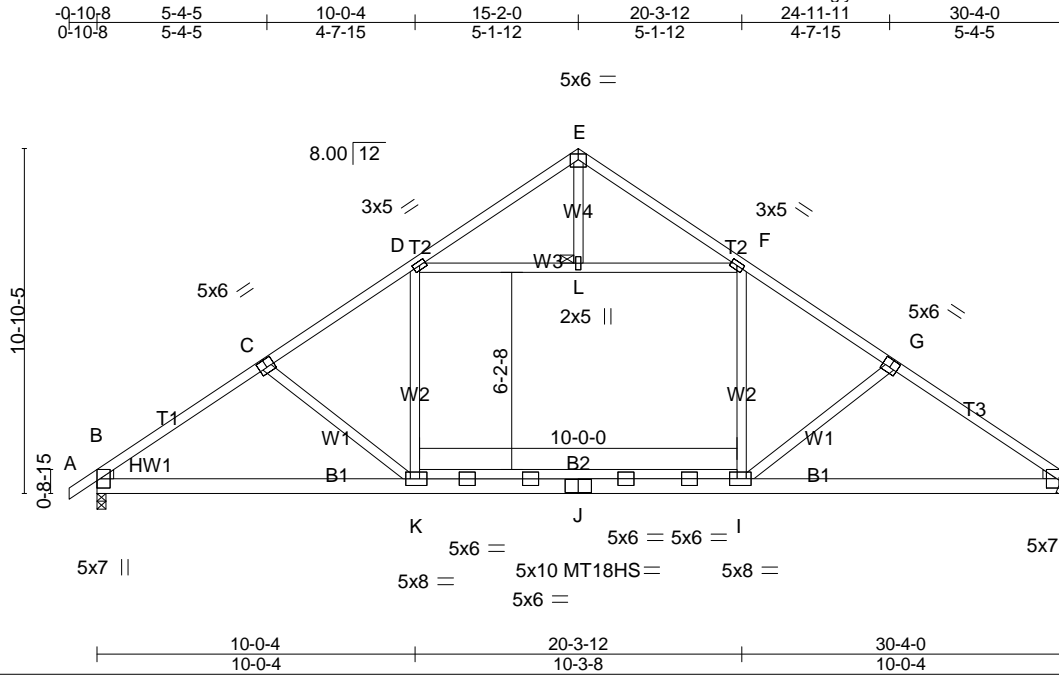


Job Reference (optional)



Scale = 1:72.6

Plate Offsets (X,Y)-- [B:0-0-6,0-0-9], [B:0-0-12,0-4-10], [C:0-3-0,0-3-0], [G:0-3-0,0-3-0], [H:0-0-12,0-4-10], [H:0-0-6,0-0-9], [I:0-1-12,0-2-8], [K:0-1-12,0-2-8]

<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 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.85	Vert(LL) -0.39 I-R >924 240	MT18HS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.45 I-R >809 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.06 H n/a n/a		
	Code IRC2015/TPI2014		Attic -0.33 I-K 373 360	Weight: 200 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 B2: 2x4 SP No.2  
 WEBS 2x4 SP No.2 \*Except\*  
 W1,W4: 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.2, Right: 2x4 SP No.2

**REACTIONS.** (lb/size) B=1318/0-3-8 (min. 0-1-13), H=1264/Mechanical  
 Max Horz B=260(LC 7)  
 Max Uplift B=117(LC 10), H=98(LC 11)  
 Max Grav B=1526(LC 18), H=1476(LC 19)

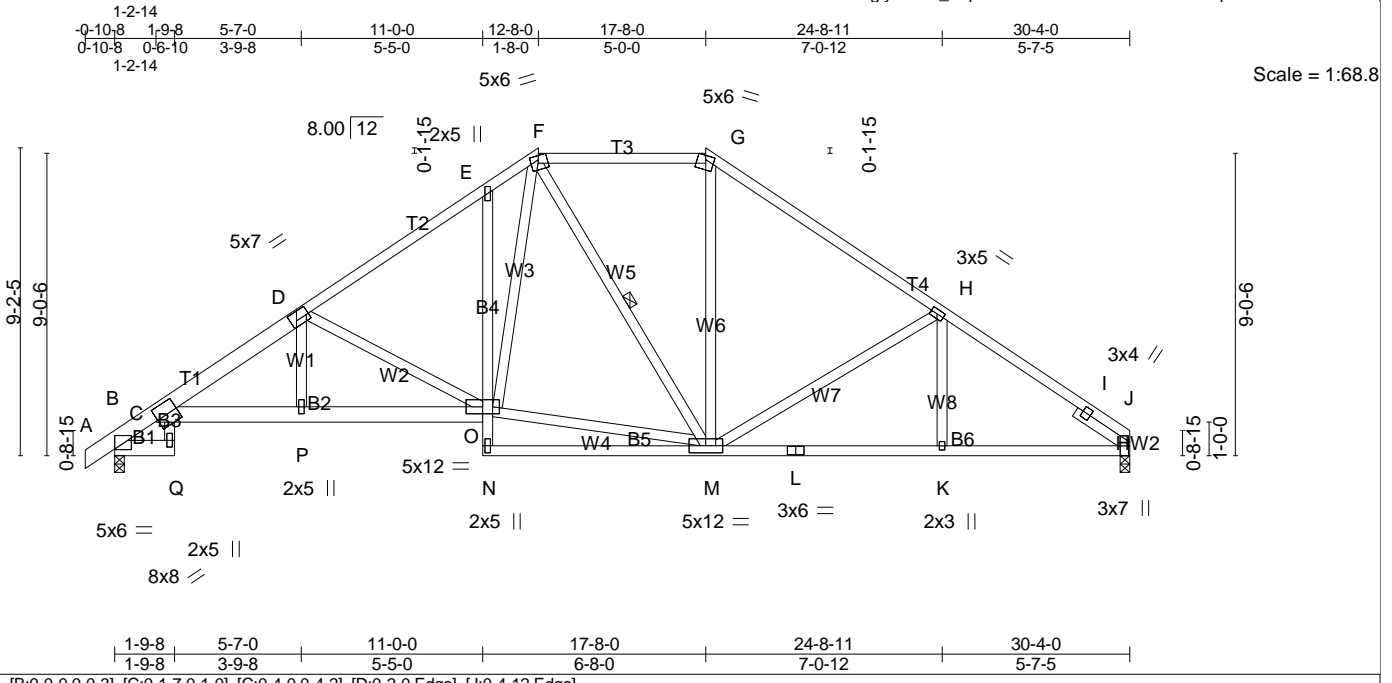
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-6-5 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 9-9-4 oc bracing.  
 JOINTS 1 Brace at Jt(s): L

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-2176/272, C-D=-2013/257, D-E=-456/99, E-F=-456/99, F-G=-2012/258, G-H=-2177/273  
 BOT CHORD B-K=-196/1896, J-K=-30/1692, I-J=-30/1692, H-I=-142/1744  
 WEBS D-L=-1325/260, F-L=-1325/260, F-I=0/650, G-I=-292/215, D-K=0/650, C-K=-289/214

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - Ceiling dead load (5.0 psf) on member(s). D-L, F-L
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. I-K
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H except (jt=lb) B=117.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

**LOAD CASE(S)** Standard





Scale = 1:68.8

Plate Offsets (X,Y)-- [B:0-0-0,0-0-3], [C:0-1-7,0-1-0], [C:0-4-0,0-4-2], [D:0-2-0,Edge], [J:0-4-12,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 0.98	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.97	Vert(LL) -0.11 Q >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.60	Vert(CT) -0.22 Q >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.19 J n/a n/a		
	Code IRC2015/TPI2014			Weight: 212 lb	FT = 20%

<p><b>LUMBER-</b></p> <p>TOP CHORD 2x4 SP No.2 *Except* T1: 2x6 SP No.1</p> <p>BOT CHORD 2x4 SP No.2 *Except* B1,B2: 2x6 SP No.2, B3,B4: 2x4 SP No.3</p> <p>WEBS 2x4 SP No.3</p> <p>WEDGE Left: 2x4 SP No.2</p> <p>SLIDER Right 2x4 SP No.3 1-11-0</p>	<p><b>BRACING-</b></p> <p>TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-4-14 max.): F-G.</p> <p>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: C-P.</p> <p>WEBS 1 Row at midpt F-M</p>
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**REACTIONS.** (lb/size) J=1213/0-3-8 (min. 0-1-14), B=1277/0-3-8 (min. 0-2-0)  
Max Horz B=219(LC 7)  
Max Uplift J=115(LC 11), B=128(LC 10)

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

TOP CHORD B-C=-646/150, C-D=-2296/385, D-E=-1631/347, E-F=-1507/432, F-G=-1045/332, G-H=-1374/326, H-I=-1722/317, I-J=-565/62

BOT CHORD C-P=-274/1935, O-P=-273/1951, L-M=-185/1377, K-L=-185/1377, J-K=-185/1377

WEBS D-P=0/404, D-O=-798/231, F-M=-253/142, G-M=-13/393, H-M=-446/222, M-O=-28/1010, F-O=-220/789

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) except (j=l) J=115, B=128.
  - 7) This truss is designed in accordance with the 2015 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.



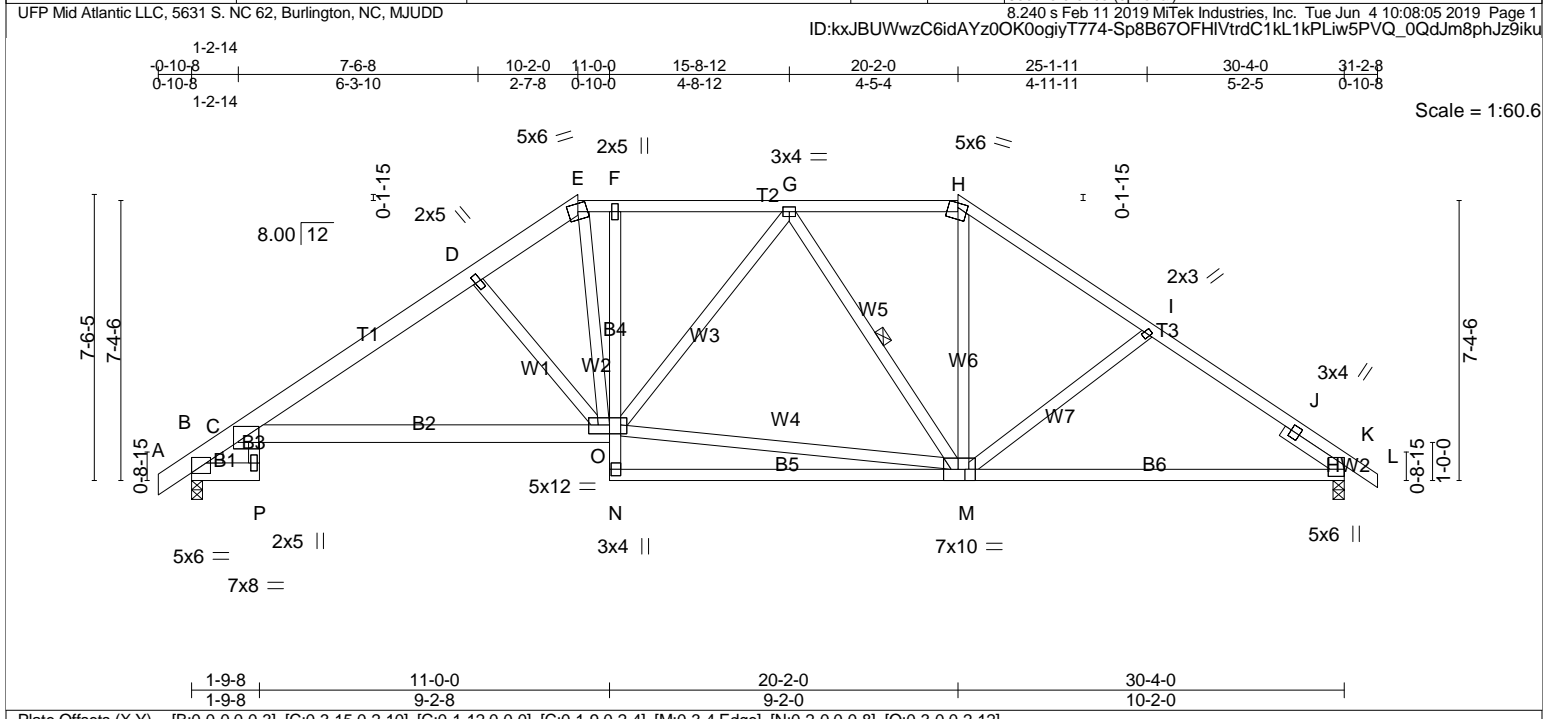


Plate Offsets (X,Y)-- [B:0-0,0-0-3], [C:0-3-15,0-2-10], [C:0-1-12,0-0-0], [C:0-1-9,0-2-4], [M:0-3-4,Edge], [N:0-2-0,0-0-8], [O:0-3-0,0-2-12]

<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 0.98	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.20 O-V >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.58	Vert(CT) -0.47 O-V >782 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.24 K n/a n/a		
	Code IRC2015/TPI2014			Weight: 207 lb	FT = 20%

<p><b>LUMBER-</b></p> <p>TOP CHORD 2x4 SP No.2 *Except* T1: 2x6 SP No.1</p> <p>BOT CHORD 2x4 SP No.2 *Except* B1,B2: 2x6 SP No.2, B3,B4: 2x4 SP No.3</p> <p>WEBS 2x4 SP No.3</p> <p>WEDGE Left: 2x4 SP No.2 SLIDER Right 2x4 SP No.3 1-11-0</p>	<p><b>BRACING-</b></p> <p>TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-8-1 max.): E-H.</p> <p>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.</p> <p>WEBS 1 Row at midpt G-M</p>
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**REACTIONS.** (lb/size) B=1276/0-3-8 (min. 0-2-0), K=1266/0-3-8 (min. 0-2-0)  
Max Horz B=182(LC 9)  
Max Uplift B=109(LC 10), K=115(LC 11)

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

TOP CHORD B-C=643/154, C-D=1956/380, D-E=1694/371, E-F=1458/350, F-G=1446/352, G-H=1174/318,  
H-I=1498/330, I-J=1687/349, J-K=821/0

BOT CHORD C-O=169/1663, K-M=172/1344

WEBS H-M=57/519, I-M=258/198, D-O=552/211, E-O=192/942, M-O=121/1401, G-M=494/193

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) except (j=l) B=109, K=115.
  - 7) This truss is designed in accordance with the 2015 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



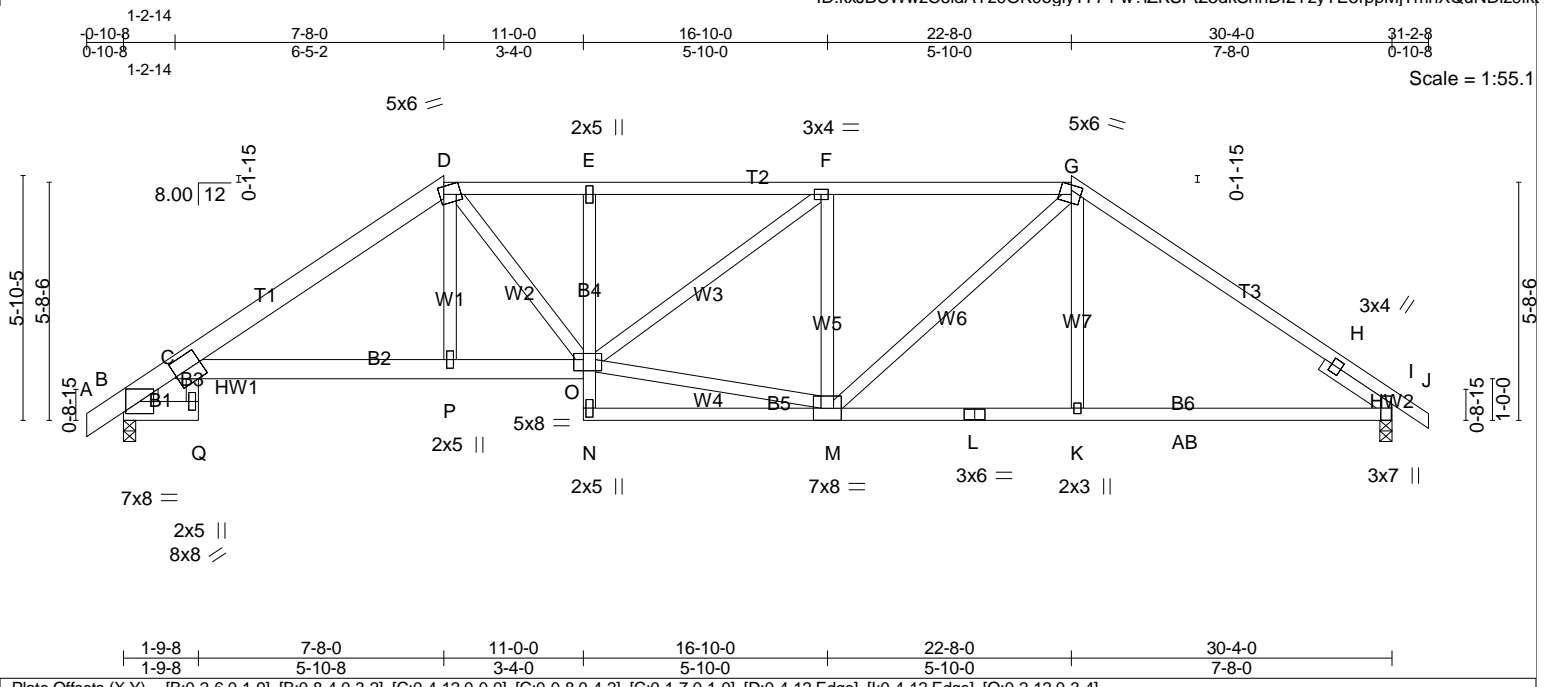


Plate Offsets (X,Y)-- [B:0-2-6,0-1-9], [B:0-8-4,0-3-2], [C:0-4-12,0-0-0], [C:0-0-8,0-4-2], [C:0-1-7,0-1-0], [D:0-4-12,Edge], [I:0-4-12,Edge], [O:0-2-12,0-3-4]

<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 IRC2015/TPI2014	<b>CSI.</b> TC 0.98 BC 0.90 WB 0.64 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.14 P-W >999 240 Vert(CT) -0.30 P-W >999 180 Horz(CT) 0.20 l n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 188 lb FT = 20%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 *Except* T1: 2x6 SP No.1 BOT CHORD 2x4 SP No.2 *Except* B1: 2x6 SP No.2, B3,B4: 2x4 SP No.3, B2: 2x6 SP No.1 WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.2 SLIDER Right 2x4 SP No.3 1-11-12	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-10-11 max.); D-G. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) B=1276/0-3-8 (min. 0-1-8), I=1266/0-3-8 (min. 0-1-8)  
 Max Horz B=141(LC 9)  
 Max Uplift B=85(LC 10), I=91(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=630/158, C-D=2074/382, D-E=1954/431, E-F=1958/435, F-G=1718/410, G-H=1667/334, H-I=563/17  
 BOT CHORD C-P=209/1711, O-P=209/1727, E-O=264/137, L-M=125/1301, K-L=125/1301, K-AB=124/1305,  
 I-AB=124/1305  
 WEBS D-P=10/478, D-O=214/473, M-O=186/1540, F-O=72/310, F-M=597/231, G-M=194/662, G-K=0/255

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) B, I.
  - 7) This truss is designed in accordance with the 2015 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.

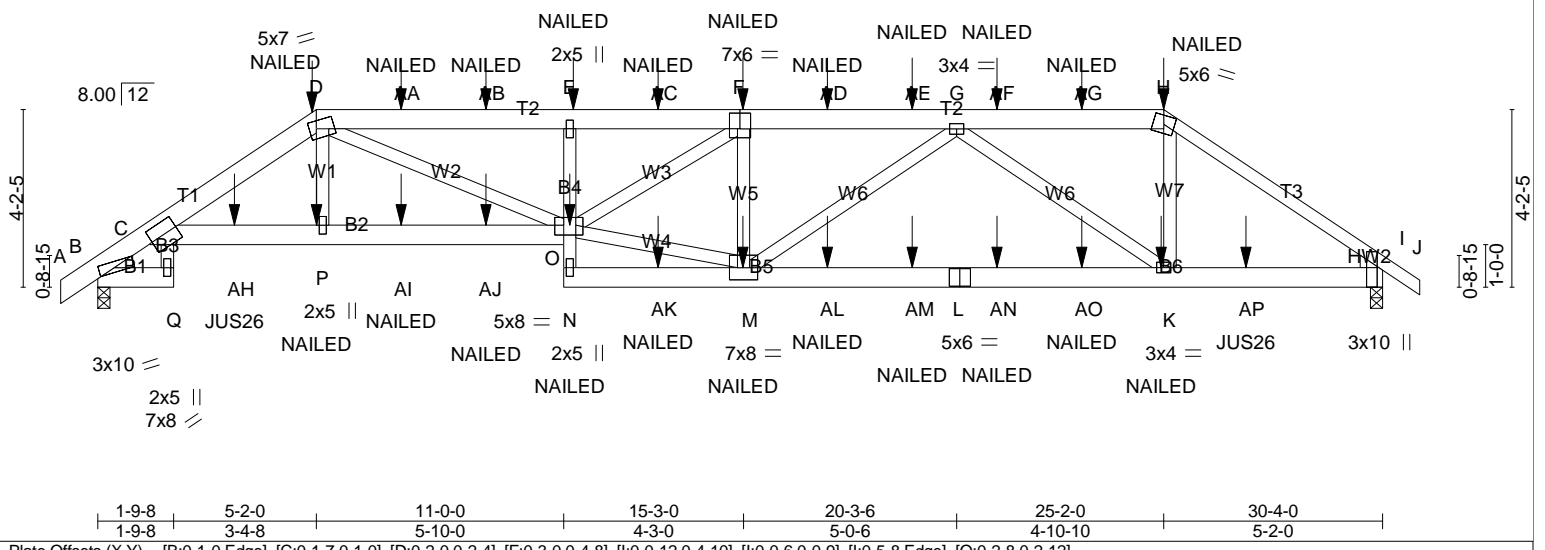
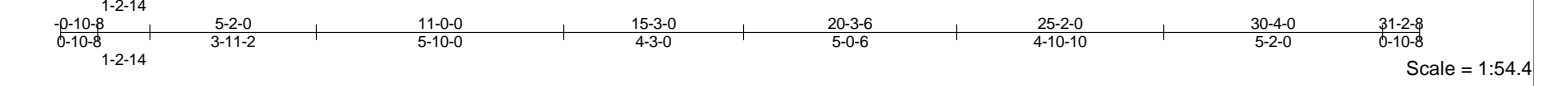


Plate Offsets (X,Y)-- [B:0-1-0,Edge], [C:0-1-7,0-1-0], [D:0-2-0,0-2-4], [F:0-3-0,0-4-8], [I:0-0-12,0-4-10], [I:0-0-6,0-0-9], [I:0-5-8,Edge], [O:0-2-8,0-2-12]

<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 0.82	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) 0.18 O >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.68	Vert(CT) -0.23 O >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.14 I n/a n/a		
	Code IRC2015/TPI2014			Weight: 414 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.2 \*Except\*  
 T1: 2x6 SP No.1, T3: 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 B3,B4: 2x4 SP No.3  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.2, Right: 2x4 SP No.2

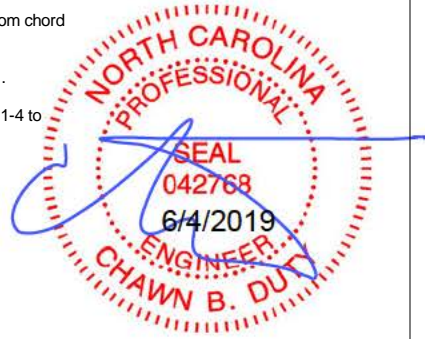
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-H.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) B=1804/0-3-8 (min. 0-1-8), I=1796/0-3-8 (min. 0-1-8)  
 Max Horz B=102(LC 7)  
 Max Uplift B=708(LC 8), I=717(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=936/432, C-D=3453/1572, D-AA=4407/2115, AA-AB=4407/2115, E-AB=4407/2115, E-AC=4360/2092, F-AC=4360/2092, F-AD=3563/1662, AD-AE=3563/1662, G-AE=3563/1662, G-AF=2009/917, AF-AG=2007/917, H-AG=2006/916, H-I=2556/1102  
 BOT CHORD C-AH=1388/2955, P-AH=1388/2955, P-AI=1401/2991, AI-AJ=1401/2991, O-AJ=1401/2991, E-O=342/276, N-AK=213/402, M-AK=213/402, M-AL=1488/3094, AL-AM=1488/3094, L-AM=1488/3094, L-AN=1488/3094, AN-AO=1488/3094, K-AO=1488/3094, K-AP=849/2048, I-AP=849/2048  
 WEBS D-P=233/682, D-O=889/1614, M-O=1525/3300, F-O=484/906, F-M=883/548, G-M=224/612, G-K=1394/821, H-K=436/1092

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row 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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=708, I=717.
  - This truss is designed in accordance with the 2015 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.
  - Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 23-10-8 oc max. starting at 3-2-12 from the left end to 27-1-4 to connect truss(es) a15 (1 ply 2x6 SP), a17 (1 ply 2x6 SP) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: A-C=60, C-D=60, D-H=60, H-J=60, Q-R=20, O-U=20, N-X=20



Job 69024056	Truss A5	Truss Type Hip Girder	Qty 1	Ply 2	DANIELS CLASSIC
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

Job Reference (optional)

8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:09 2019 Page 2  
 ID:kxJBuWwzC6idAYz0OK0oglyT774-KaOiyURIL\_?JJFWozB5gaBsec0uPwprDDO61q4z9ikq

**LOAD CASE(S)** Standard  
 Concentrated Loads (lb)

Vert: D=-31(F) H=-39(F) O=-23(F) E=-39(F) P=-31(F) F=-39(F) M=-23(F) K=-23(F) AA=-31(F) AB=-31(F) AC=-39(F) AD=-39(F) AE=-39(F) AF=-39(F) AG=-39(F) AH=-190(F) AI=-31(F) AJ=-31(F)  
 AK=-23(F) AL=-23(F) AM=-23(F) AN=-23(F) AO=-23(F) AP=-190(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.



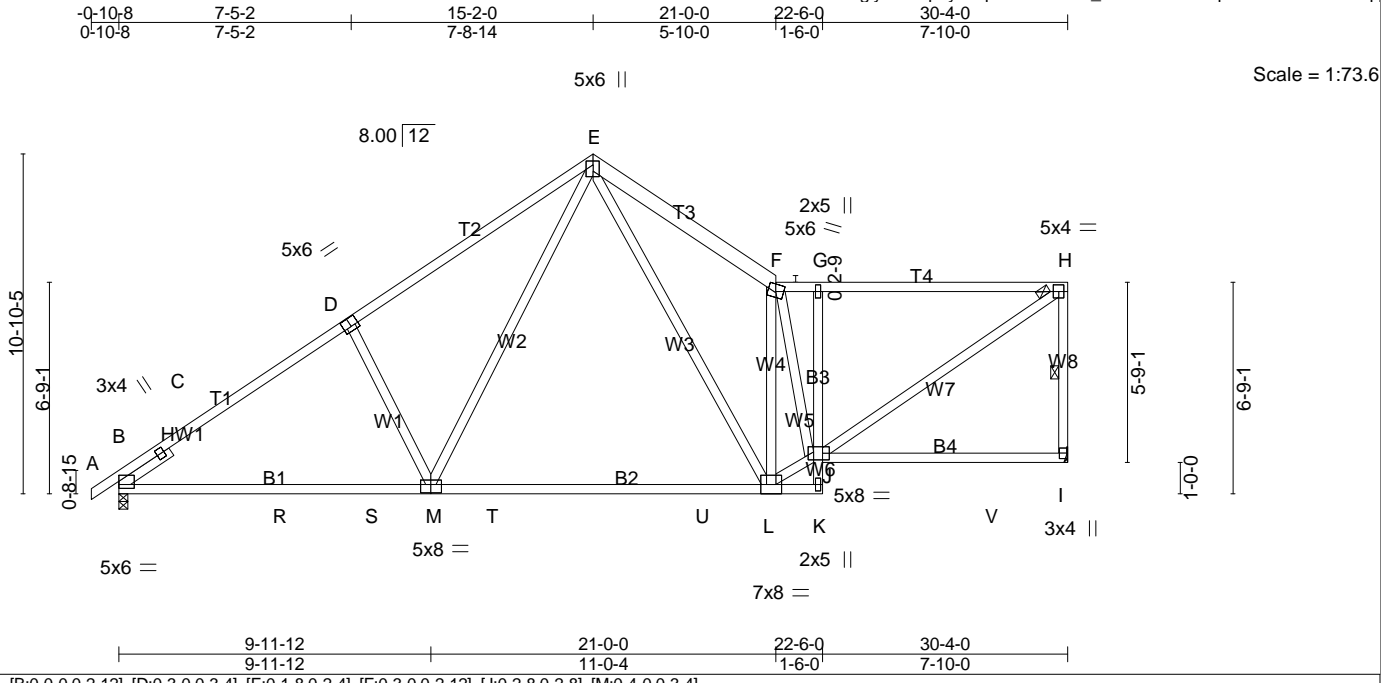


Plate Offsets (X,Y)-- [B:0-0-0,0-2-12], [D:0-3-0,0-3-4], [E:0-1-8,0-2-4], [F:0-3-0,0-2-12], [J:0-2-8,0-2-8], [M:0-4-0,0-3-4]

<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 0.92	Vert(LL) -0.41 L-M >884 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.87	Vert(CT) -0.66 L-M >548 180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.97	Horz(CT) 0.04 l n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MSH			
					Weight: 201 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* T3: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): F-H.
BOT CHORD 2x4 SP No.1 *Except* B3: 2x4 SP No.3, B4: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt H-I
SLIDER Left 2x4 SP No.3 1-11-12	

**REACTIONS.** (lb/size) I=1207/Mechanical, B=1261/0-3-8 (min. 0-1-9)  
 Max Horz B=329(LC 7)  
 Max Uplift I=162(LC 11), B=144(LC 10)  
 Max Grav I=1244(LC 2), B=1333(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD B-C=-766/0, C-D=-1653/317, D-E=-1646/404, E-F=-1601/448, F-G=-1347/321, G-H=-1367/327, H-I=-1127/263  
 BOT CHORD B-R=-256/1556, R-S=-256/1556, M-S=-256/1556, M-T=-104/997, T-U=-104/997, L-U=-104/997, J-K=-327/0, G-J=-501/271  
 WEBS D-M=-423/302, E-M=-168/843, E-L=-188/801, J-L=-88/1658, F-J=-237/348, H-J=-288/1646, F-L=-1162/351

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) except (j=l) I=162, B=144.
  - 7) This truss is designed in accordance with the 2015 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.



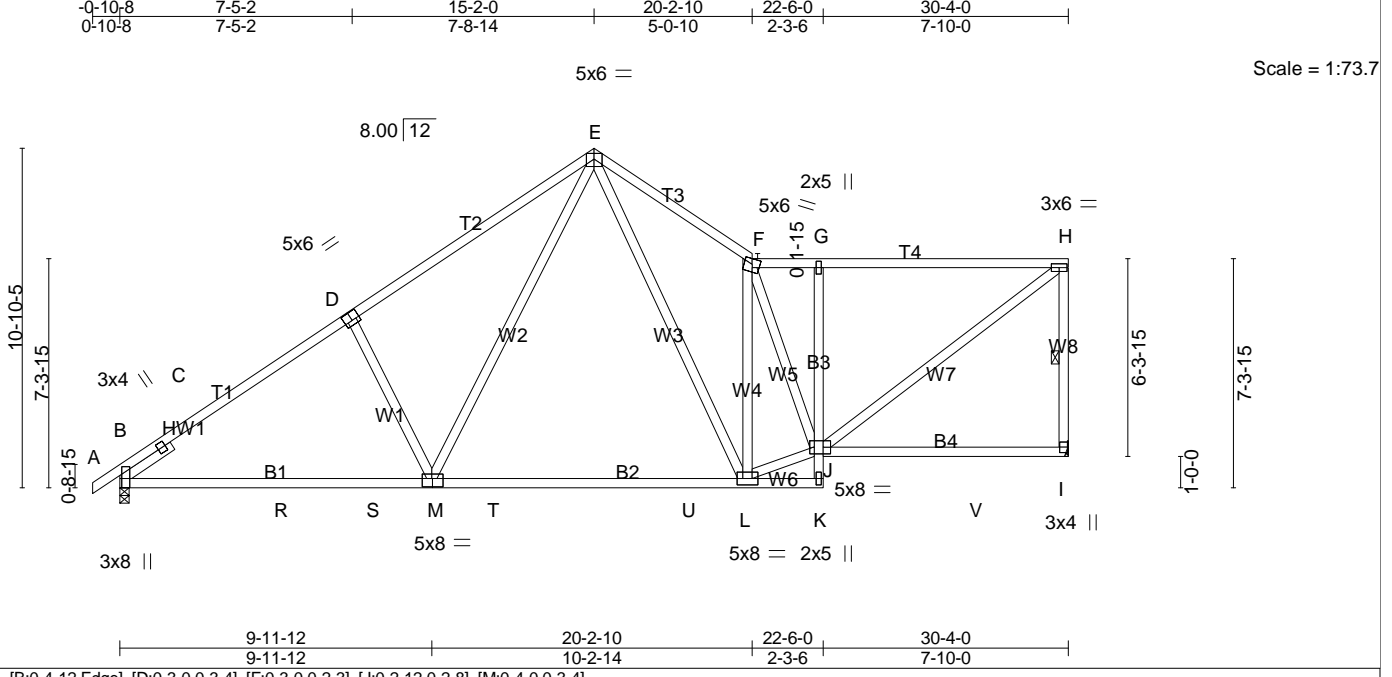


Plate Offsets (X,Y)-- [B:0-4-12,Edge], [D:0-3-0,0-3-4], [F:0-3-0,0-2-3], [J:0-2-12,0-2-8], [M:0-4-0,0-3-4]

<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 0.90	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.32 L-M >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.52 L-M >699 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.04 l n/a n/a		
	Code IRC2015/TPI2014			Weight: 199 lb	FT = 20%

<p><b>LUMBER-</b></p> <p>TOP CHORD 2x4 SP No.2 *Except* T2: 2x4 SP No.1</p> <p>BOT CHORD 2x4 SP No.1 *Except* B3: 2x4 SP No.3, B4: 2x4 SP No.2</p> <p>WEBS 2x4 SP No.3</p> <p>SLIDER Left 2x4 SP No.3 1-11-12</p>	<p><b>BRACING-</b></p> <p>TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): F-H.</p> <p>BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.</p> <p>WEBS 1 Row at midpt H-I</p>
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**REACTIONS.** (lb/size) I=1207/Mechanical, B=1261/0-3-8 (min. 0-1-9)  
 Max Horz B=334(LC 7)  
 Max Uplift=169(LC 11), B=144(LC 10)  
 Max Grav I=1250(LC 2), B=1329(LC 17)

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

TOP CHORD B-C=-792/0, C-D=-1629/319, D-E=-1634/405, E-F=-1494/439, F-G=-1218/312, G-H=-1232/315, H-I=-1128/266

BOT CHORD B-R=-259/1547, R-S=-259/1547, M-S=-259/1547, M-T=-123/990, T-U=-123/990, L-U=-123/990, G-J=-465/230

WEBS D-M=-428/305, E-M=-175/832, E-L=-183/737, F-L=-915/300, J-L=-95/1451, H-J=-273/1535

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 (jt=lb) I=169, B=144.
  - This truss is designed in accordance with the 2015 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





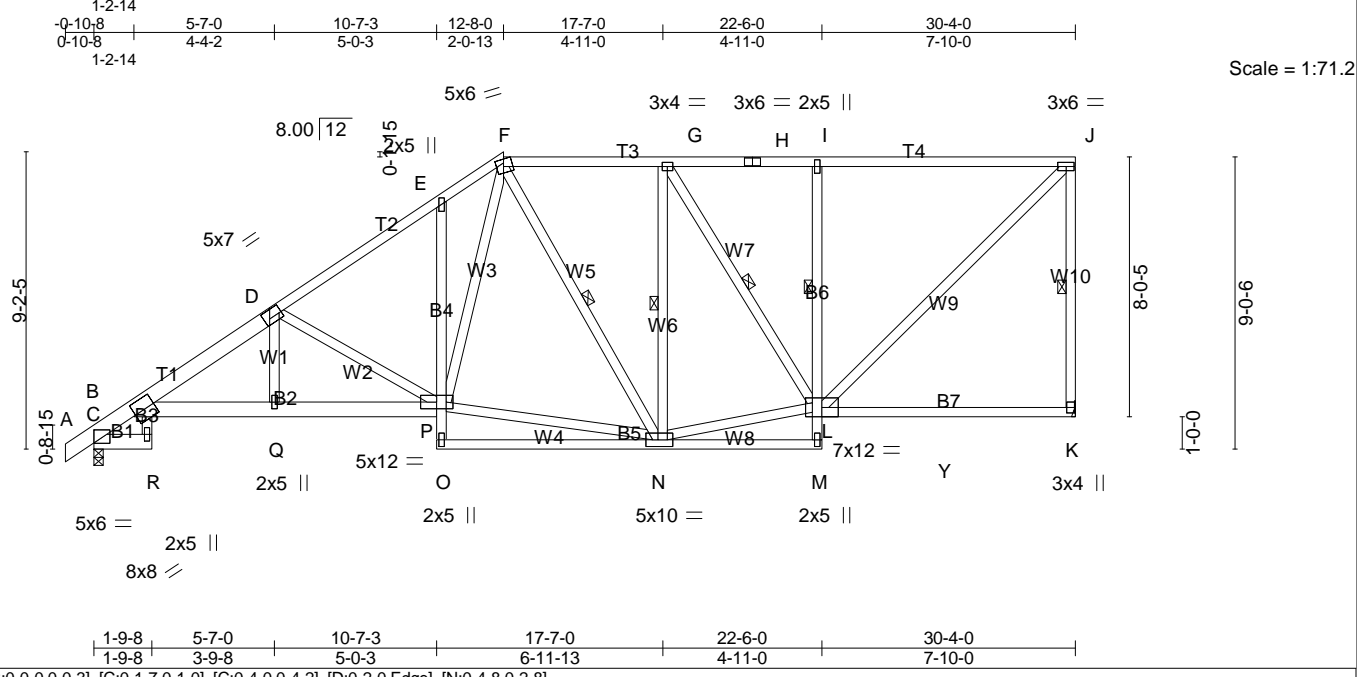


Plate Offsets (X,Y)-- [B:0-0-0,0-0-3], [C:0-1-7,0-1-0], [C:0-4-0,0-4-2], [D:0-2-0,Edge], [N:0-4-8,0-2-8]

<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 1.15 Code IRC2015/TPI2014	<b>CSI.</b> TC 0.98 BC 0.97 WB 0.59 Matrix-MSH	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) -0.15 K-L >999 240 Vert(CT) -0.31 K-L >999 180 Horz(CT) 0.15 K n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190 Weight: 244 lb FT = 20%
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<b>LUMBER-</b> TOP CHORD 2x4 SP No.2 *Except* T1: 2x6 SP No.1 BOT CHORD 2x4 SP No.3 *Except* B1,B2: 2x6 SP No.2, B5,B7: 2x4 SP No.2 WEBS 2x4 SP No.3	<b>BRACING-</b> TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-1-0 max.): F-J. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: C-Q 6-0-0 oc bracing: M-N. 1 Row at midpt I-L 1 Row at midpt J-K, F-N, G-N, G-L
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**REACTIONS.** (lb/size) K=1207/Mechanical, B=1271/0-3-8 (min. 0-1-8)  
Max Horz B=315(LC 7)  
Max Uplift K=223(LC 7), B=124(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-688/78, C-D=-2280/409, D-E=-1646/361, E-F=-1535/442, F-G=-1036/330, G-H=-939/304, H-I=-939/304, I-J=-953/308, J-K=-1129/285  
BOT CHORD C-Q=-398/1919, P-Q=-397/1936, I-L=-441/206  
WEBS D-Q=0/398, D-P=-761/230, L-N=-184/1040, J-L=-257/1313, N-P=-262/976, F-P=-217/777

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) except (jt=lb) K=223, B=124.
  - 7) This truss is designed in accordance with the 2015 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



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

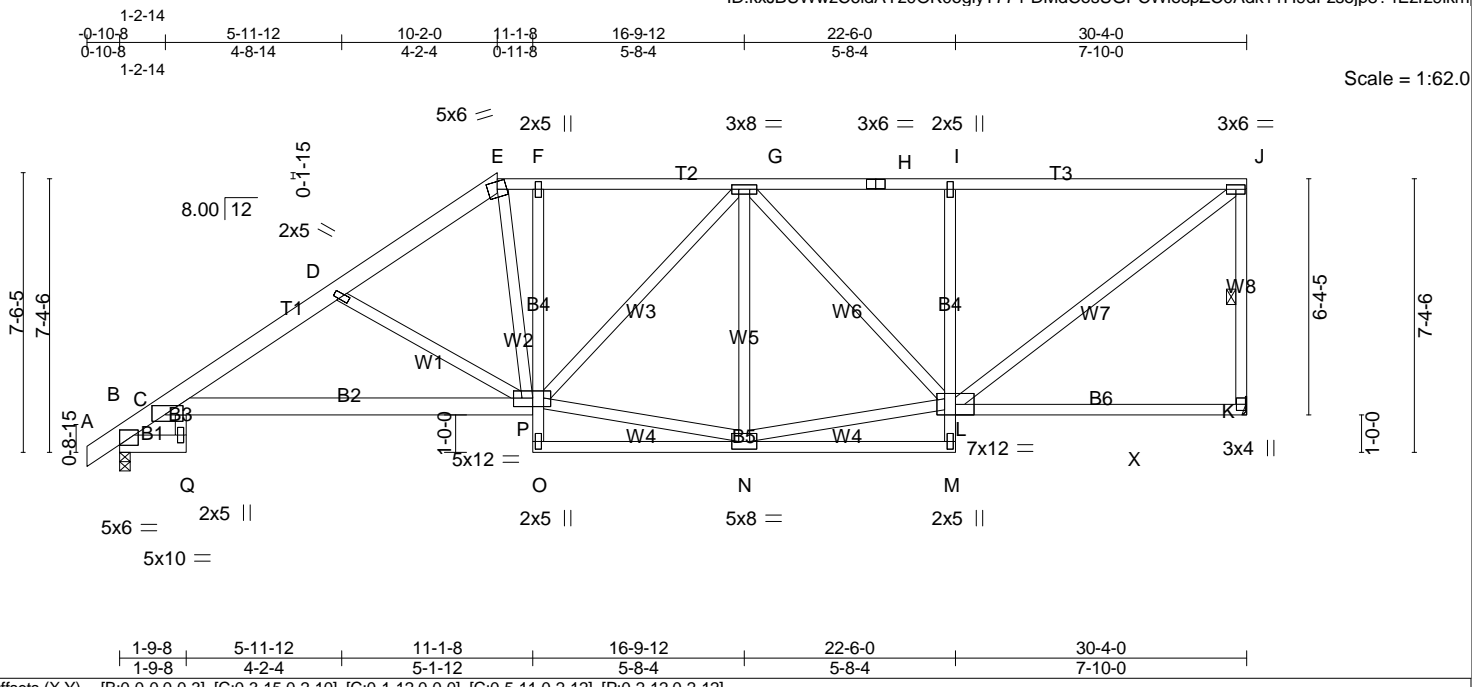


Plate Offsets (X,Y)-- [B:0-0,0-0-3], [C:0-3-15,0-2-10], [C:0-1-12,0-0-0], [C:0-5-11,0-2-12], [P:0-2-12,0-2-12]

<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 0.98	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.16 P-W >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.62	Vert(CT) -0.39 P-W >929 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.18 K n/a n/a		
	Code IRC2015/TPI2014			Weight: 227 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* T1: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): E-J.
BOT CHORD 2x4 SP No.3 *Except* B1,B2: 2x6 SP No.2, B5,B6: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: N-O,M-N.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt J-K

**REACTIONS.** (lb/size) K=1207/Mechanical, B=1271/0-3-8 (min. 0-1-8)  
Max Horz B=253(LC 7)  
Max UpliftK=222(LC 7), B=106(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=643/85, C-D=-2081/431, D-E=-1677/366, E-F=-1461/368, F-G=-1454/371, G-H=-1194/330, H-I=-1194/330, I-J=-1215/334, J-K=-1128/282  
BOT CHORD C-P=-395/1832, F-P=-278/130, I-L=-452/207  
WEBS E-P=-160/851, N-P=-264/1364, G-P=-67/270, G-N=-368/170, L-N=-229/1267, J-L=-297/1503, D-P=-607/220

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 (jt=lb) K=222, B=106.
  - This truss is designed in accordance with the 2015 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



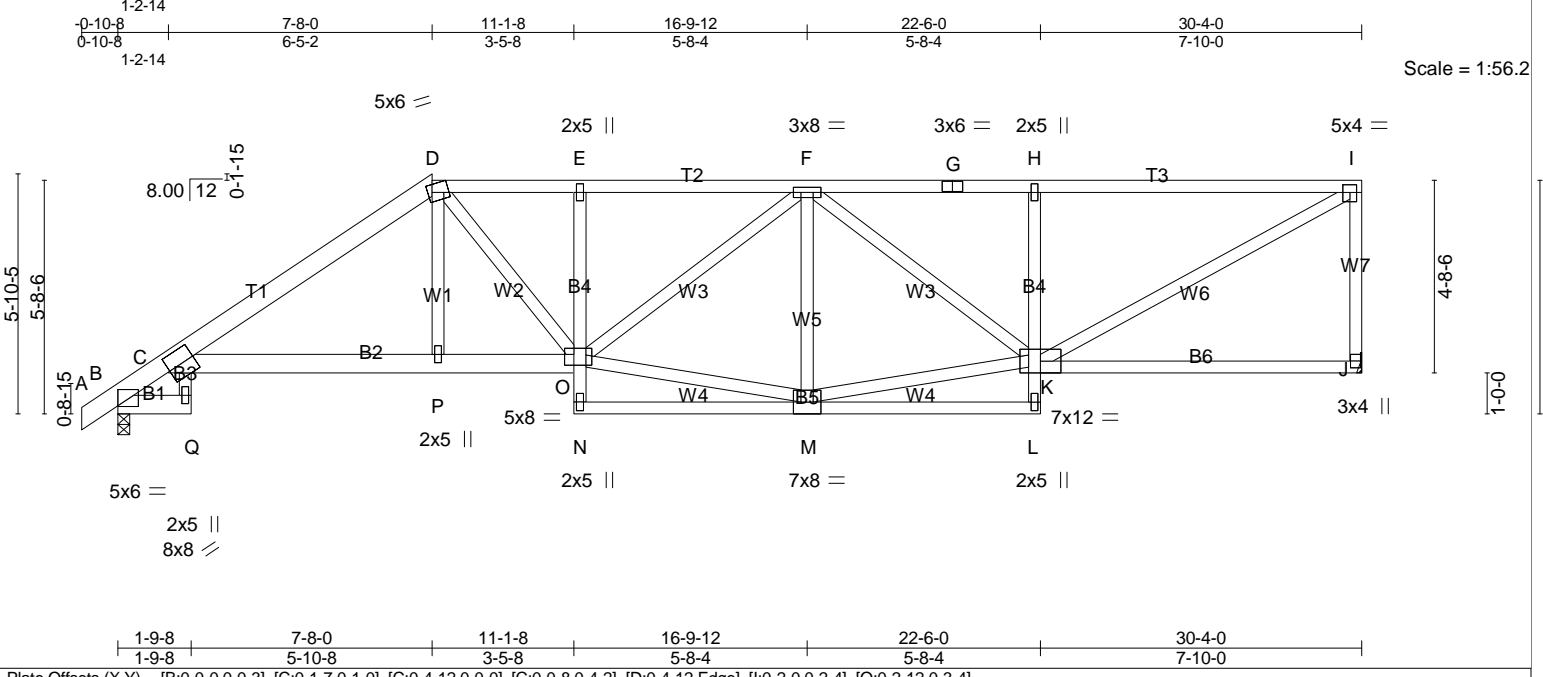


Plate Offsets (X,Y)-- [B:0-0-0,0-0-3], [C:0-1-7,0-1-0], [C:0-4-12,0-0-0], [C:0-0-8,0-4-2], [D:0-4-12,Edge], [I:0-2-0,0-2-4], [O:0-2-12,0-3-4]

<b>LOADING (psf)</b> 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 IRC2015/TPI2014	<b>CSI.</b> TC 0.98 BC 0.90 WB 0.77 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0.15 J-K >999 240 Vert(CT) -0.34 J-K >999 180 Horz(CT) 0.19 J n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 206 lb FT = 20%
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**LUMBER-**  
TOP CHORD 2x6 SP No.1 \*Except\*  
T2: 2x4 SP No.2, T3: 2x4 SP No.1  
BOT CHORD 2x4 SP No.3 \*Except\*  
B1: 2x6 SP No.2, B2: 2x6 SP No.1, B5,B6: 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-5-6 max.): D-I.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) J=1207/Mechanical, B=1271/0-3-8 (min. 0-1-8)  
Max Horz B=191(LC 7)  
Max Uplift J=222(LC 7), B=-89(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=640/95, C-D=-2062/403, D-E=-1952/448, E-F=-1958/452, F-G=-1634/391, G-H=-1634/391, H-I=-1670/399, I-J=-1126/280  
BOT CHORD C-P=-346/1700, O-P=-346/1715, E-O=-277/142, H-K=-447/205  
WEBS D-P=-22/472, D-O=-228/479, M-O=-319/1524, F-O=-86/329, F-M=-470/192, K-M=-289/1634, I-K=-371/1870

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B except (jt=lb) J=222.
  - This truss is designed in accordance with the 2015 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.



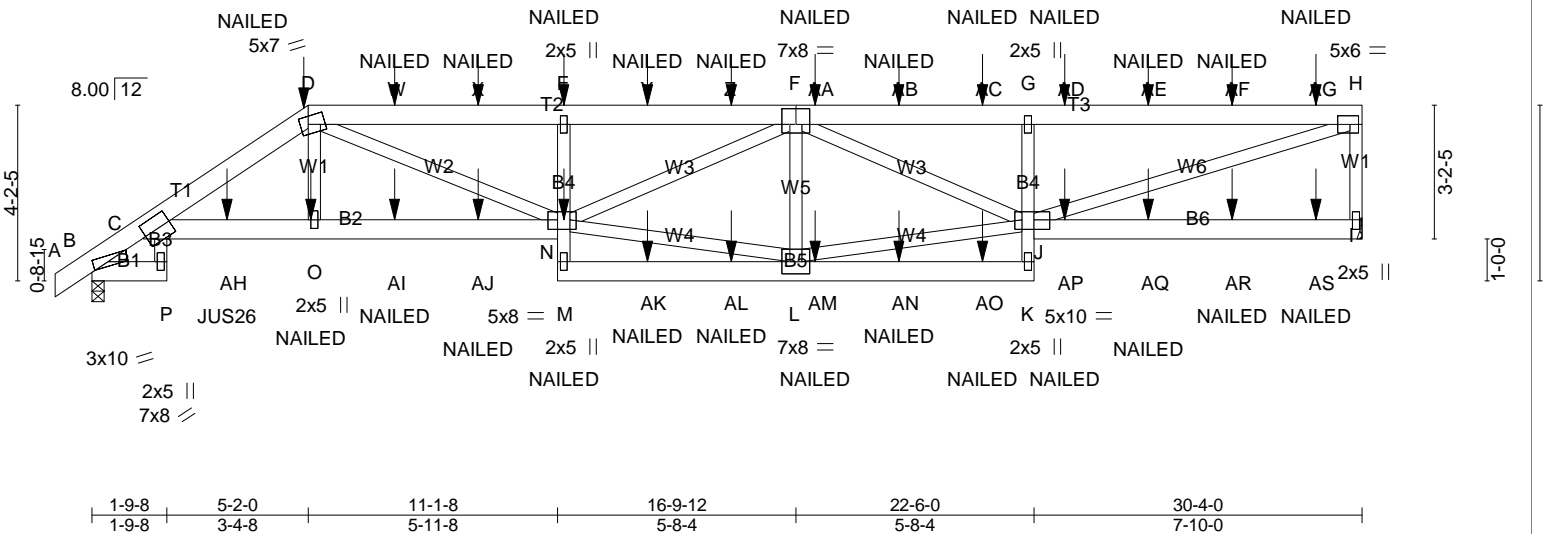
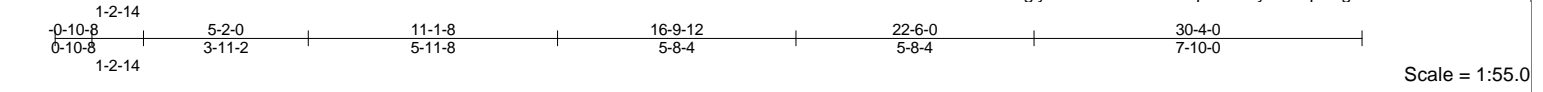


Plate Offsets (X,Y)-- [B:0-1-0,Edge], [C:0-1-7,0-1-0], [D:0-2-4,0-2-4], [F:0-4-0,0-4-8], [H:0-2-8,0-2-8], [I:0-2-12,0-1-0], [J:0-4-8,0-2-12], [N:0-2-12,0-2-12]

<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 NO Code IRC2015/TPI2014	<b>CSI.</b> TC 0.81 BC 0.75 WB 0.77 Matrix-MSH	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) 0.21 N >999 240 Vert(CT) -0.27 N >999 180 Horz(CT) 0.13 I n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 450 lb FT = 20%
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**LUMBER-**  
TOP CHORD 2x6 SP No.2 \*Except\*  
T1: 2x6 SP No.1  
BOT CHORD 2x6 SP No.2 \*Except\*  
B3,B4: 2x4 SP No.3  
WEBS 2x4 SP No.3  
WEDGE Left: 2x4 SP No.2

**BRACING-**  
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-H.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) I=1687/Mechanical, B=1784/0-3-8 (min. 0-1-8)  
Max Horz B=129(LC 5)  
Max Uplift I=853(LC 5), B=704(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-925/409, C-D=-3411/1603, D-W=-4362/2178, W-X=-4362/2178, E-X=-4362/2178, E-Y=-4311/2155, Y-Z=-4311/2155, F-Z=-4311/2155, F-AA=-3570/1798, AA-AB=-3570/1798, AB-AC=-3570/1798, G-AC=-3570/1798, G-AD=-3641/1831, AD-AE=-3641/1831, AE-AF=-3641/1831, AF-AG=-3641/1831, H-AG=-3641/1831, H-I=-1518/819  
BOT CHORD C-AH=-1453/2917, O-AH=-1453/2917, O-AI=-1466/2953, AI-AJ=-1466/2953, N-AJ=-1466/2953, E-N=-413/333, M-AK=-242/481, AK-AL=-242/481, L-AL=-242/481, L-AM=-220/390, AM-AN=-220/390, AN-AO=-220/390, K-AO=-220/390, G-J=-529/399  
WEBS D-O=-244/685, D-N=-912/1543, L-N=-1515/2992, F-N=-518/988, F-L=-964/621, J-L=-1537/3084, H-J=-1906/3742

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=853, B=704.
  - This truss is designed in accordance with the 2015 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.
  - Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 3-2-12 from the left end to connect truss(es) at 15 (1 ply 2x6 SP) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-C=60, C-D=60, D-H=60, P-Q=-20, N-T=-20, K-M=-20, I-J=-20



Job 69024056	Truss A11	Truss Type Half Hip Girder	Qty 1	Ply 2	DANIELS CLASSIC
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

Job Reference (optional)

8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:15 2019 Page 2  
 ID:kkJBUWwzC6idAYz0OK0oglyT774-9kizDXWWxqmS1AzyJRC5pS6gERxxKvR6cJZL1kz9ikk

**LOAD CASE(S)** Standard  
 Concentrated Loads (lb)

Vert: D=-31(F) N=-23(F) E=-39(F) O=-31(F) W=-31(F) X=-31(F) Y=-39(F) Z=-39(F) AA=-39(F) AB=-39(F) AC=-39(F) AD=-31(F) AE=-31(F) AF=-31(F) AG=-32(F) AH=-190(F) AI=-31(F) AJ=-31(F)  
 AK=-23(F) AL=-23(F) AM=-23(F) AN=-23(F) AO=-23(F) AP=-31(F) AQ=-31(F) AR=-31(F) AS=-31(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.

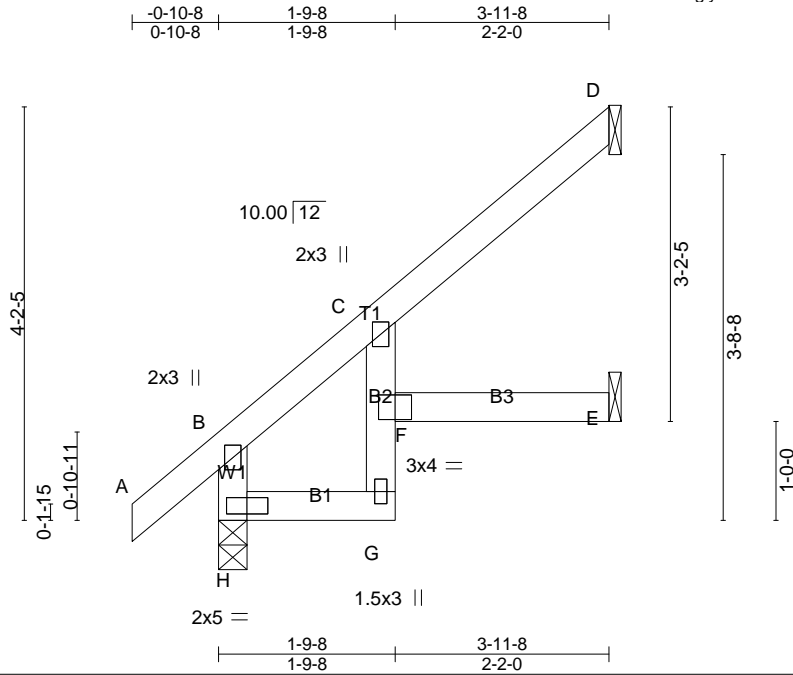


Job 69024056	Truss A12	Truss Type Jack-Open	Qty 10	Ply 1	DANIELS CLASSIC
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Job Reference (optional)

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

8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:16 2019 Page 1  
ID:kkJBUWwzC6idAYz0OK0ogyT774-dwJLQtX8i7uJfJY8t9jKMff?krPH38BFqzJuaA29ikj



Scale = 1:23.4

<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 0.19	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(LL) 0.03 F >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.03 F >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.02 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 19 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) D=91/Mechanical, E=51/Mechanical, H=220/0-3-8 (min. 0-1-8)  
 Max Horz H=140(LC 10)  
 Max Uplift D=79(LC 10), E=19(LC 10)  
 Max Grav D=105(LC 17), E=64(LC 3), H=220(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) H 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



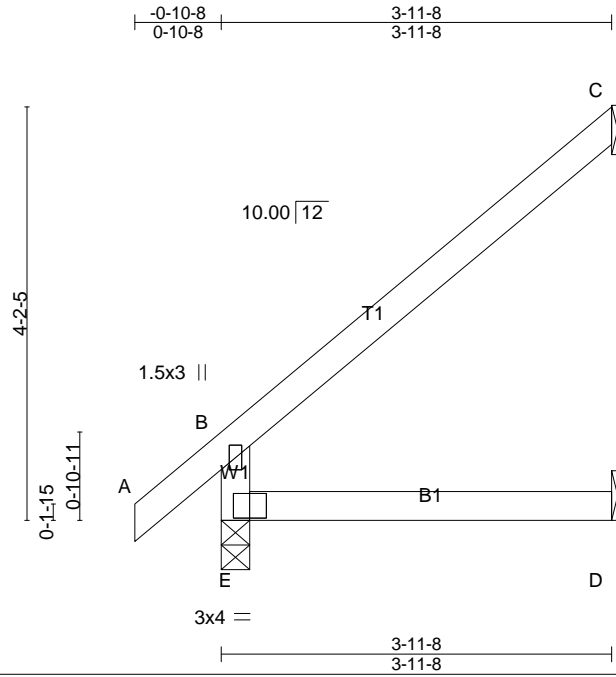
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design 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 69024056	Truss A13	Truss Type Jack-Open	Qty 14	Ply 1	DANIELS CLASSIC
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:16 2019 Page 1  
 ID:kx.JBUWwzC6idAYz00K0ogiyT774-dwJLQtX8i7uJfJY8t9jkMffzyrPg38BFqzJuaA29jik



Scale = 1:23.4

<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 IRC2015/TPI2014	<b>CSI.</b> TC 0.30 BC 0.20 WB 0.00 Matrix-MR	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) 0.02 D-E >999 240 Vert(CT) -0.02 D-E >999 180 Horz(CT) -0.02 C n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 16 lb FT = 20%
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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 3-11-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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**REACTIONS.** (lb/size) C=99/Mechanical, D=43/Mechanical, E=220/0-3-8 (min. 0-1-8)  
 Max Horz E=140(LC 10)  
 Max Uplift C=95(LC 10), D=-2(LC 10)  
 Max Grav C=115(LC 17), D=71(LC 3), E=220(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) C, D.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

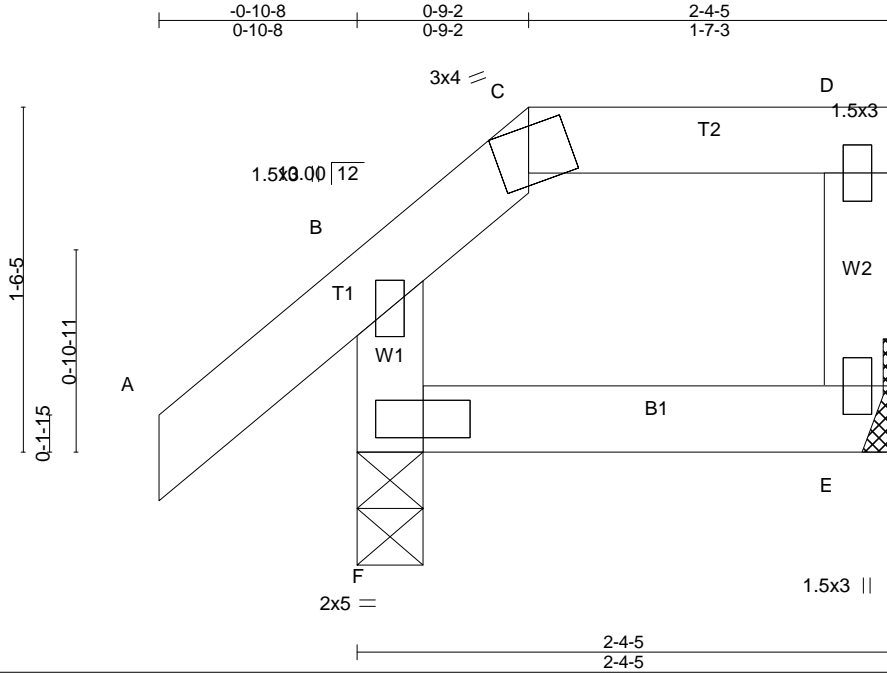
**LOAD CASE(S)** Standard



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 Reference (optional)



Scale = 1:10.2

<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 0.12	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 F >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 E-F >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MR	Horz(CT) -0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 11 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (lb/size) E=68/Mechanical, F=159/0-3-8 (min. 0-1-8)  
 Max Horz F=59(LC 7)  
 Max Uplift E=-28(LC 7), F=-28(LC 10)  
 Max Grav E=74(LC 22), F=159(LC 1)

**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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-2-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Bearing at joint(s) F 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) E, F.
  - 8) This truss is designed in accordance with the 2015 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

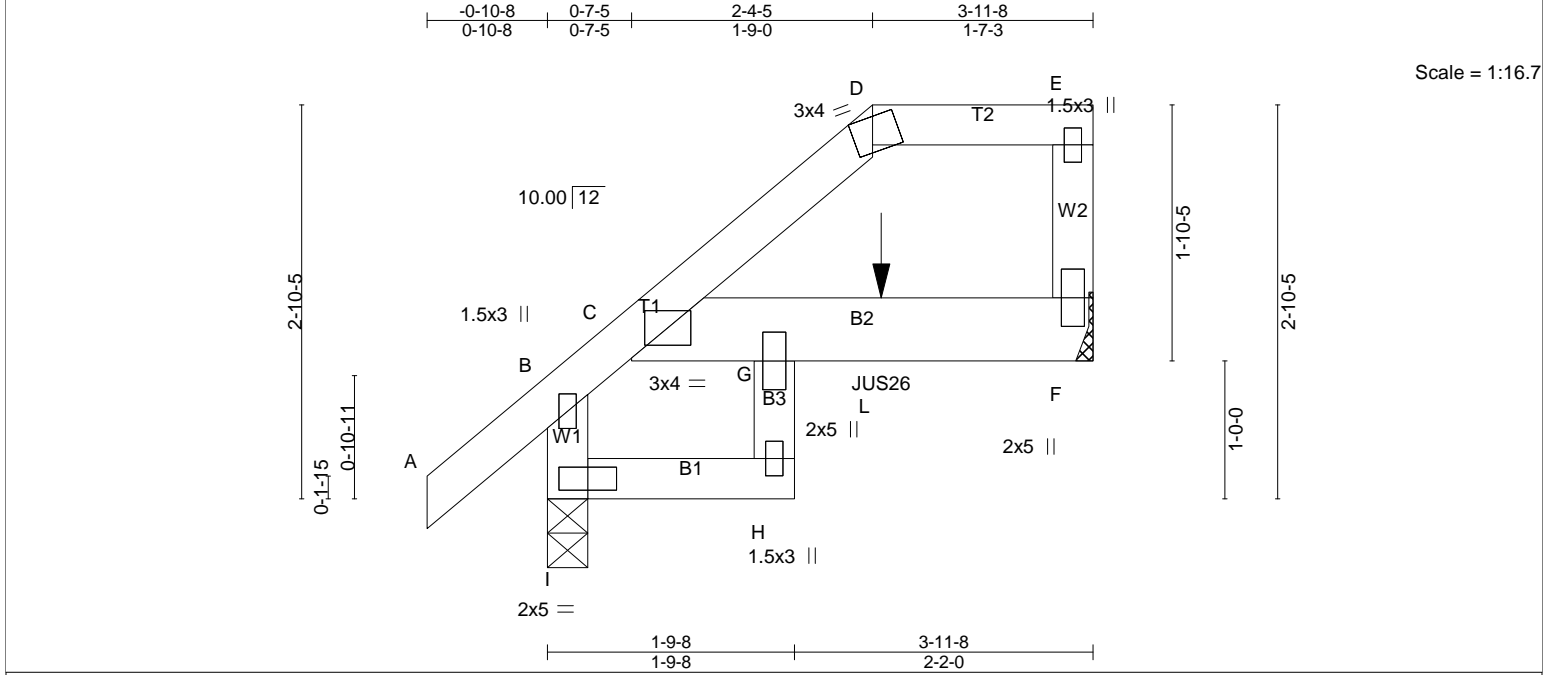




Job <b>69024056</b>	Truss <b>A15</b>	Truss Type <b>Half Hip Girder</b>	Qty <b>2</b>	Ply <b>1</b>	<b>DANIELS CLASSIC</b>
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:17 2019 Page 1  
 ID: kxJBUWwzC6idAYz0OK0oglyT774-57tjeDyhSR0AHT7LRsEZutCAZFmsobRO3d2S6cz9ik



<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 NO Code IRC2015/TPI2014	<b>CSI.</b> TC 0.18 BC 0.14 WB 0.00 Matrix-MR	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) 0.01 G >999 240 Vert(CT) -0.01 G >999 180 Horz(CT) -0.01 F n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 23 lb FT = 20%
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**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 WEBS 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins: D-E.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) F=210/Mechanical, I=260/0-3-8 (min. 0-1-8)  
 Max Horz I=93(LC 5)  
 Max Uplift F=99(LC 5), I=58(LC 8)

**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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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) Bearing at joint(s) I 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) F, I.
  - 8) This truss is designed in accordance with the 2015 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.
  - 10) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 2-5-1 from the left end to connect truss(es) a16 (1 ply 2x4 SP) to front face of bottom chord.
  - 11) Fill all nail holes where hanger is in contact with lumber.
  - 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

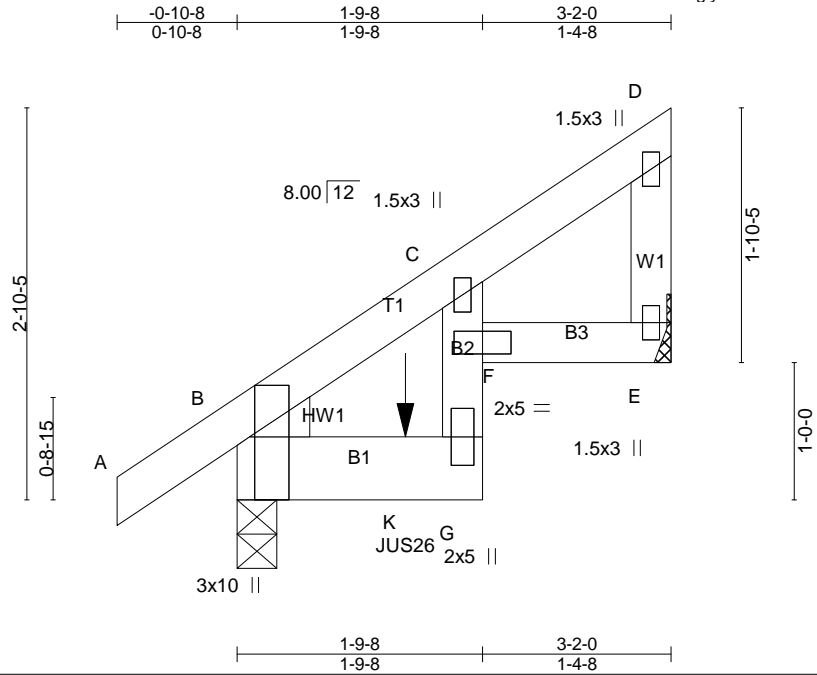
**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: A-B=-60, B-D=-60, D-E=-60, H-I=-20, F-G=-20  
 Concentrated Loads (lb)  
 Vert: L=-115(F)



Job <b>69024056</b>	Truss <b>A16</b>	Truss Type <b>Jack-Open Girder</b>	Qty <b>2</b>	Ply <b>1</b>	<b>DANIELS CLASSIC</b>
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:18 2019 Page 1  
 ID:kkJBUWwzC6idAYz0OK0ogiyT774-aJR5rZYPDI81udiX?amoR4kJfe6\_X1JYIH0?e2z9ikh



Scale = 1:16.8

Plate Offsets (X,Y)-- [B:0-0-6,0-0-9], [B:0-0-12,0-4-10], [B:0-5-8,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 0.29	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) 0.02 G >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.02 G >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.01 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 18 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 B1: 2x6 SP No.2, B2: 2x4 SP No.3  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) B=213/0-3-8 (min. 0-1-8), E=135/Mechanical  
 Max Horz B=97(LC 8)  
 Max Uplift B=32(LC 8), E=71(LC 8)  
 Max Grav B=213(LC 1), E=136(LC 29)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, E.
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 1-2-12 from the left end to connect truss(es) a14 (1 ply 2x4 SP) to front face of bottom chord.
  - 7) Fill all nail holes where hanger is in contact with lumber.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: A-D=-60, G-H=-20, E-F=-20  
 Concentrated Loads (lb)  
 Vert: K=-54(F)

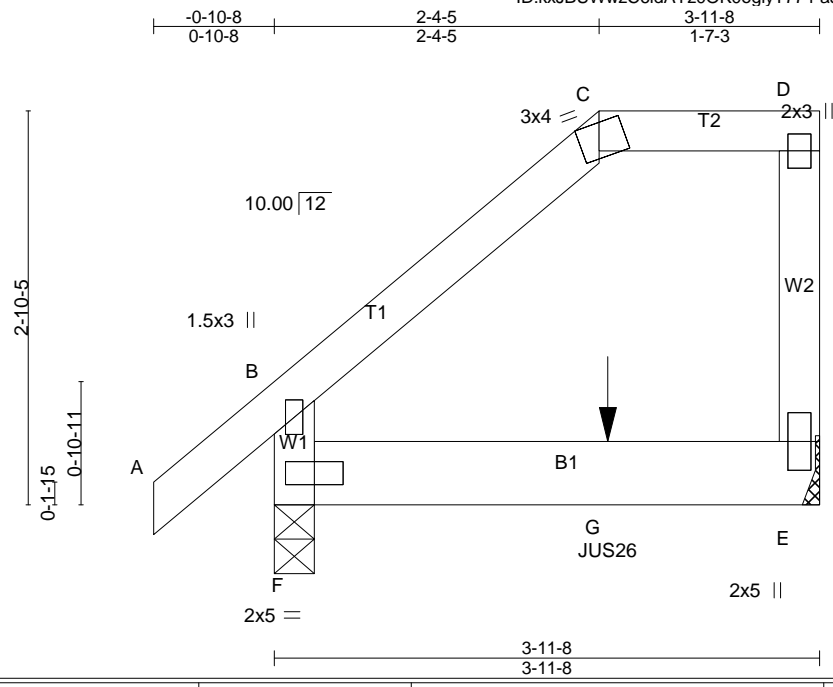


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design 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.



Job 69024056	Truss A17	Truss Type Half Hip Girder	Qty 1	Ply 1	DANIELS CLASSIC
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 Job Reference (optional)  
 8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:18 2019 Page 1  
 ID:kkJBUWwzC6idAYz00K0oglyT774-aJR5rZYPDI81udiX?amoR4kK3e5EX1hYIH0?e2z9ikh



<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 0.20	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	Lumber DOL 0.13	Vert(LL) 0.01 E-F >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.01 E-F >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MR	Horz(CT) -0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 22 lb	FT = 20%

**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 3-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) E=210/Mechanical, F=260/0-3-8 (min. 0-1-8)  
 Max Horz F=107(LC 5)  
 Max Uplift E=99(LC 5), F=63(LC 8)

**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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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.
  - Bearing at joint(s) 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 100 lb uplift at joint(s) E, F.
  - This truss is designed in accordance with the 2015 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.
  - Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 2-5-1 from the left end to connect truss(es) a18 (1 ply 2x6 SP) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)  
 Vert: A-B=-60, B-C=-60, C-D=-60, E-F=-20

Concentrated Loads (lb)  
 Vert: G=-115(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.

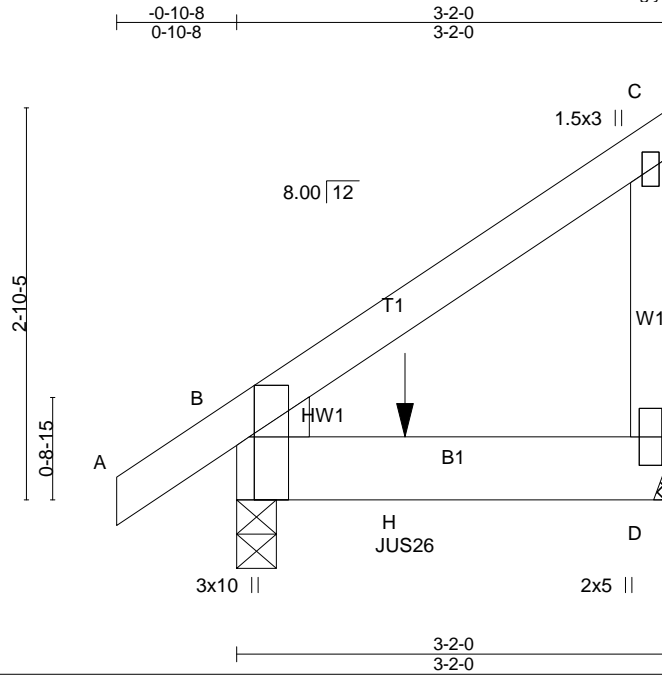


Job 69024056	Truss A18	Truss Type Jack-Open Girder	Qty 1	Ply 1	DANIELS CLASSIC
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Job Reference (optional)

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

8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:19 2019 Page 1  
ID:kkJBUWwzC6idAYz0OK0ogiyT774-2V\_U3vZ1\_2GuWnHjYHH1\_IHXI2S\_GUjhXxZAVz9ikg



Scale = 1:16.8

Plate Offsets (X,Y)-- [B:0-0-6,0-0-9], [B:0-0-12,0-4-10], [B:0-5-8,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 0.10	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) 0.00 D-G >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Vert(CT) -0.00 D-G >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) -0.00 B n/a n/a		
	Code IRC2015/TPI2014			Weight: 19 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) B=213/0-3-8 (min. 0-1-8), D=135/Mechanical  
Max Horz B=97(LC 8)  
Max Uplift B=32(LC 8), D=71(LC 8)  
Max Grav B=213(LC 1), D=136(LC 29)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D.
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 1-2-12 from the left end to connect truss(es) a14 (1 ply 2x4 SP) to front face of bottom chord.
  - 7) Fill all nail holes where hanger is in contact with lumber.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

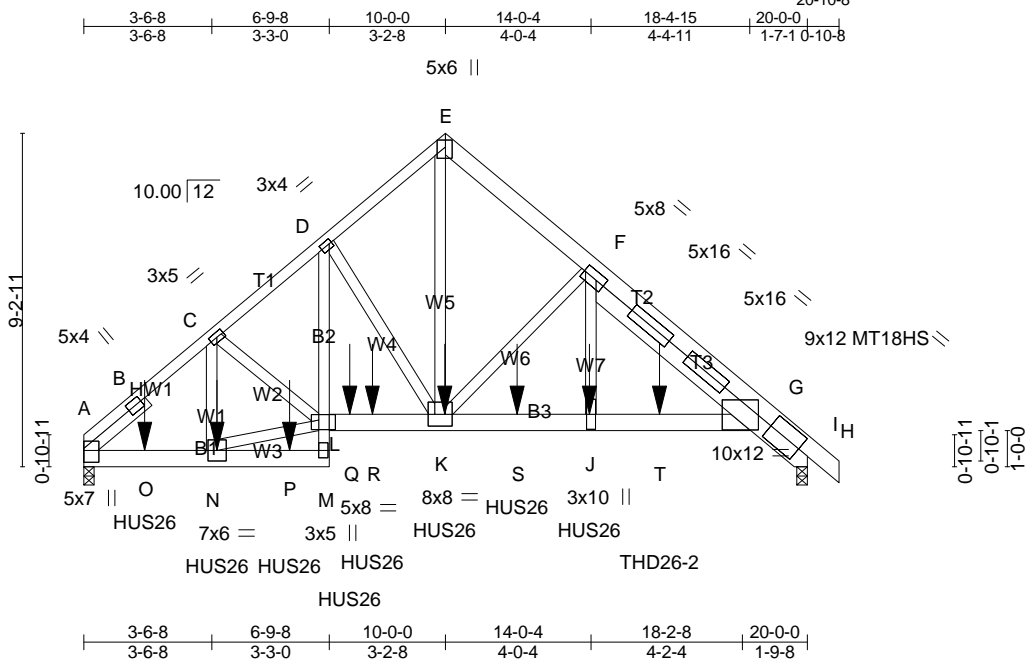
Uniform Loads (plf)  
Vert: A-C=-60, D-E=-20

Concentrated Loads (lb)  
Vert: H=-54(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.





Scale: 3/16"=1'

Plate Offsets (X,Y)-- [D:0-0-12,0-1-8], [E:0-2-4,Edge], [F:0-0-8,0-2-8], [G:0-6-0,0-2-10], [H:0-1-12,0-4-8], [L:0-5-8,0-1-12], [M:0-2-8,0-0-0]

<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 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(LL) 0.13 G-J >999 240	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Vert(CT) -0.22 G-J >999 180		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-SH	Horz(CT) 0.15 H n/a n/a		
					Weight: 523 lb	FT = 20%

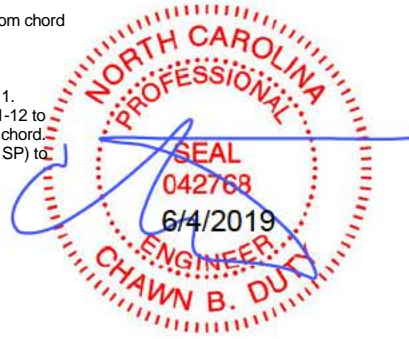
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP SS *Except* T1: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins.
BOT CHORD 2x6 SP No.2 *Except* B2: 2x4 SP No.3, B3: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W5: 2x4 SP No.2	
SLIDER Left 2x4 SP No.3 2-2-15	

**REACTIONS.** (lb/size) A=7174/0-3-8 (min. 0-2-14), H=5825/0-3-8 (min. 0-2-4)  
 Max Horz A=223(LC 6)  
 Max Uplift A=1040(LC 8), H=1371(LC 9)  
 Max Grav A=7369(LC 2), H=5825(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD A-B=9043/1322, B-C=9016/1351, C-D=8852/1532, D-E=6687/1310, E-F=6641/1324, F-G=9089/1955, G-H=3132/773  
 BOT CHORD A-O=1049/6634, N-O=1049/6634, N-P=102/744, M-P=102/744, L-M=88/1137, D-L=489/4080, L-Q=1134/6811, Q-R=1137/6831, K-R=1140/6852, K-S=1599/7576, J-S=1599/7576, J-T=1582/7534, G-T=1608/7586  
 WEBS C-N=46/416, L-N=990/6158, C-L=204/427, D-K=3305/515, E-K=1614/8224, F-K=3741/1237, F-J=948/3196

- NOTES-**
- 3-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, 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc, 2x4 - 1 row 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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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) H 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) except (jt=lb) A=1040, H=1371.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-4 from the left end to 13-11-12 to connect truss(es) a1 (1 ply 2x6 SP), a6 (1 ply 2x4 SP), a7 (1 ply 2x4 SP), a8 (1 ply 2x4 SP), a9 (1 ply 2x4 SP), a10 (1 ply 2x4 SP) to front face of bottom chord.
  - Use USP THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 15-11-0 from the left end to connect truss(es) a11 (2 ply 2x6 SP) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (psf)  
 Vert: A-E=60, E-G=60, G-H=84, H-I=60, A-M=20, G-L=20



Continued on page 2



Job 69024056	Truss B1	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 3	DANIELS CLASSIC
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD

Job Reference (optional)  
8.240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:20 2019 Page 2  
ID:kkJBUWwzC6idAYz0OK0ogiyT774-WiYsGFafIMOI8xrv6\_oGWWqZrSdl?kuribH6jxz9ikf

**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: N=-1244(F) K=-1187(F) J=-1187(F) O=-1244(F) P=-1244(F) Q=-1187(F) R=-1187(F) S=-1187(F) T=-1667(F)



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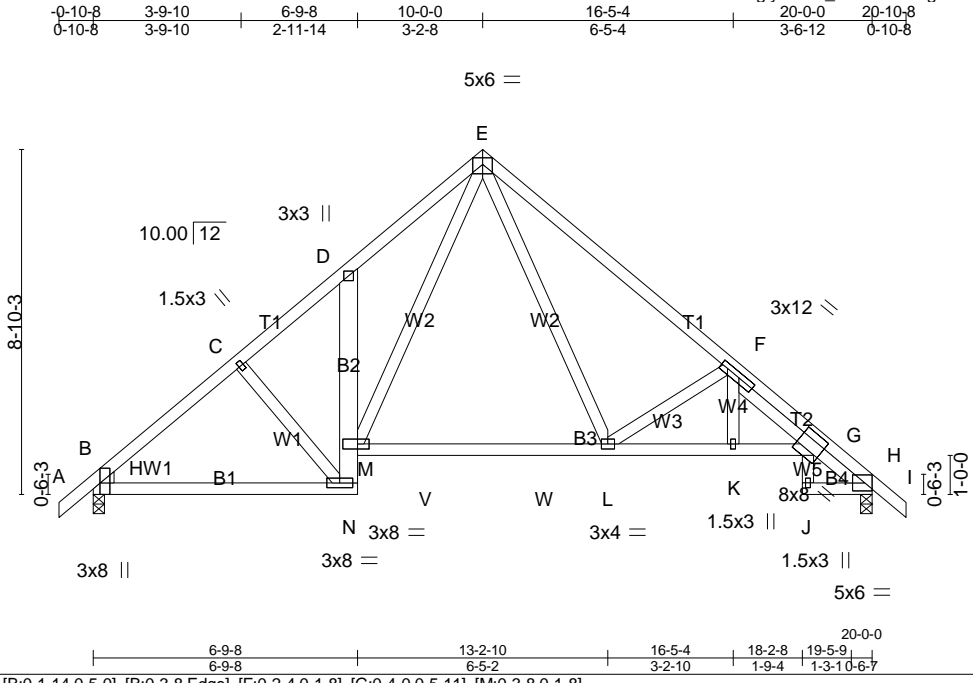


Plate Offsets (X,Y)-- [B:0-0-15,0-1-2], [B:0-1-14,0-5-0], [B:0-3-8,Edge], [F:0-2-4,0-1-8], [G:0-4-0,0-5-11], [M:0-3-8,0-1-8]

<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 0.71	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.69	Vert(LL) -0.12 L-M >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.24 L-M >974 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.14 H n/a n/a		
	Code IRC2015/TPI2014			Weight: 131 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
                  B2: 2x6 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-10-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
6-0-0 oc bracing: H-J.

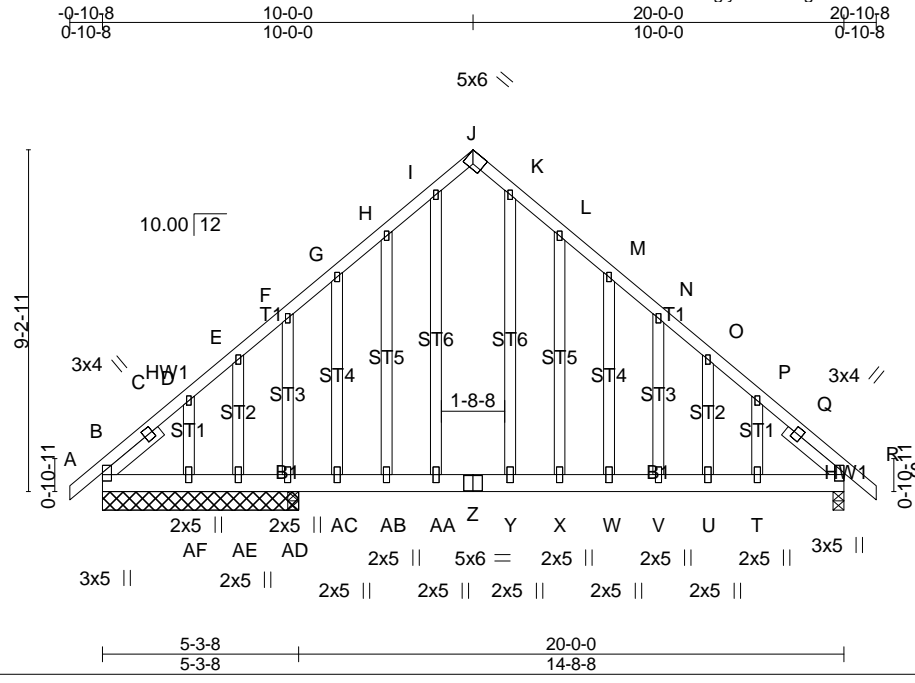
**REACTIONS.** (lb/size) B=846/0-3-8 (min. 0-1-8), H=859/0-3-8 (min. 0-1-8)  
Max Horz B=-225(LC 8)  
Max Uplift B=-93(LC 10), H=-93(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-1013/190, C-D=-888/209, D-E=-1092/313, E-F=-1064/235, F-G=-1282/226, G-H=-445/123  
BOT CHORD B-N=-141/853, D-M=-307/175, M-V=0/600, V-W=0/600, L-W=0/600, K-L=-106/1160, G-K=-108/1159  
WEBS E-M=-221/684, E-L=-77/555, F-L=-593/265

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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, with BCDL = 10.0psf.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, H.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard





Scale = 1:62.1

Plate Offsets (X,Y)-- [J:Edge,0-3-8]

<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 0.66	in (loc) l/def L/d	MT20	244/190
TCDL 18.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) 0.25 U-V >728 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.22	Vert(CT) -0.33 V >541 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) -0.04 R n/a n/a		
	Code IRC2015/TPI2014			Weight: 183 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
OTHERS 2x4 SP No.3  
SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

**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.** All bearings 5-3-8 except (jt=length) R=0-3-8.  
(lb) - Max Horz B=224(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) B except AD=-209(LC 7), AE=-156(LC 11), AF=-177(LC 10), R=-106(LC 11)  
Max Grav All reactions 250 lb or less at joint(s) AD, AF except B=809(LC 18), AD=343(LC 21), AE=253(LC 18), R=955(LC 1), B=765(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-364/42, C-D=-850/103, D-E=-794/135, E-F=-811/177, F-G=-780/191, G-H=-751/218, H-I=-849/286, I-J=-516/187, J-K=-499/181,  
K-L=-830/268, L-M=-706/182, M-N=-720/137, N-O=-735/89, O-P=-745/46, P-Q=-723/0, Q-R=-455/52  
BOT CHORD B-AF=0/542, AE-AF=0/542, AD-AE=0/542, AC-AD=0/542, AB-AC=0/542, AA-AB=0/542, Z-AA=0/542, Y-Z=0/542, X-Y=0/542, W-X=0/542, V-W=0/542,  
U-V=0/542, T-U=0/542, R-T=0/542  
WEBS I-AA=-169/473, H-AB=-255/118, K-Y=-149/473, L-X=-255/122

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 studs spaced at 1-4-0 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, B except (jt=lb) AD=209, AE=156, AF=177, R=106.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard





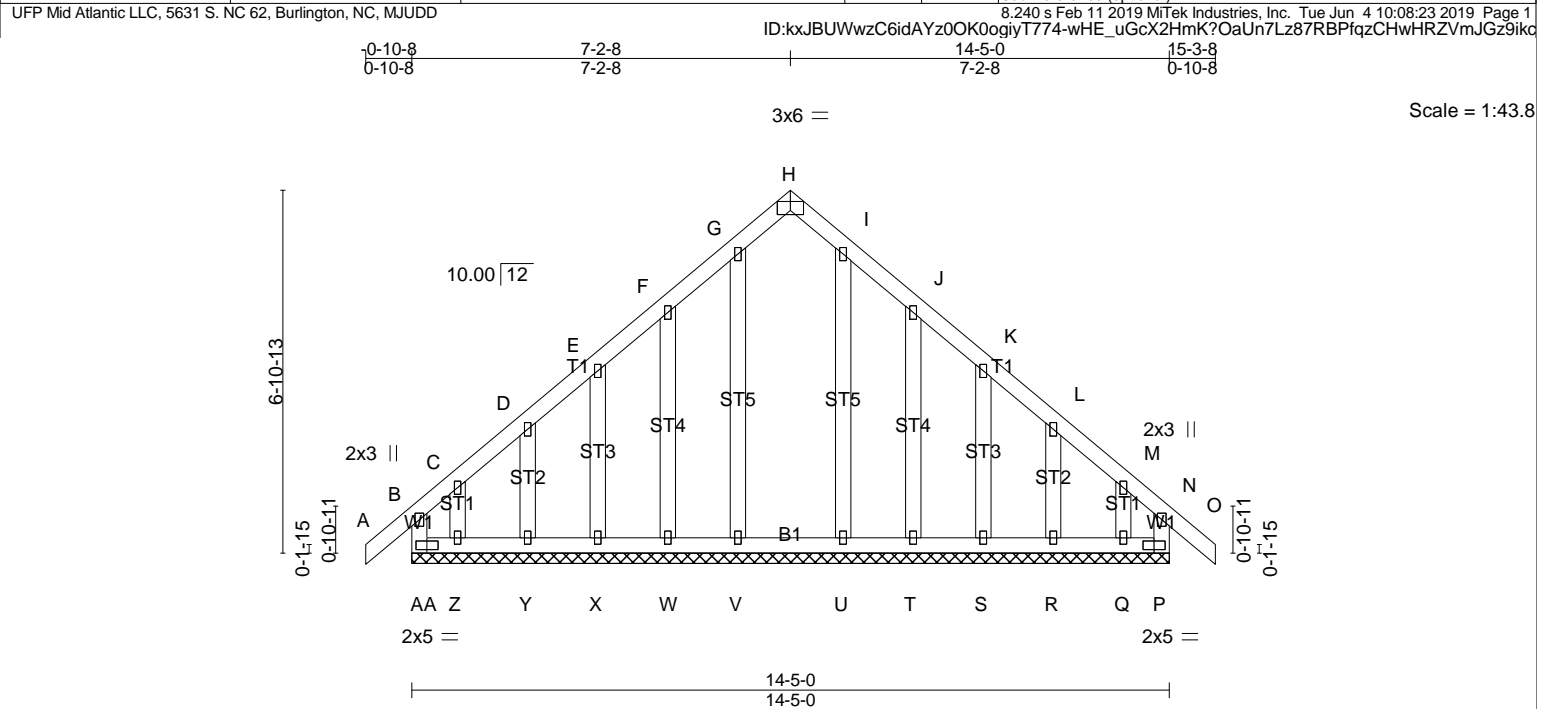


Plate Offsets (X,Y)-- [H:0-3-0,Edge]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>		<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	in (loc) l/def L/d		MT20	244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(LL) -0.00 O n/r 120				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Vert(CT) -0.00 O n/r 90				
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Horz(CT) 0.00 P n/a n/a				
					Weight: 104 lb	FT = 20%	

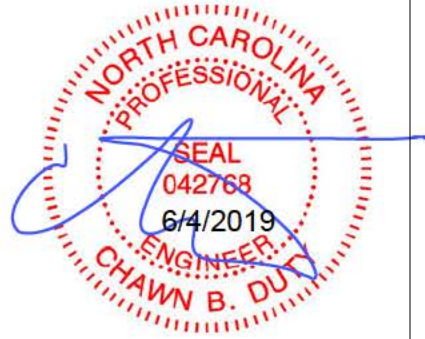
<p><b>LUMBER-</b></p> <p>TOP CHORD 2x4 SP No.2          BOT CHORD 2x4 SP No.2          WEBS 2x4 SP No.3          OTHERS 2x4 SP No.3</p>	<p><b>BRACING-</b></p> <p>TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.          BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.</p>
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**REACTIONS.** All bearings 14-5-0.  
 (lb) - Max Horz AA=191(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) P, W, X, Y, T, S, R except AA=100(LC 8), Z=-193(LC 10), Q=-184(LC 11)  
 Max Grav All reactions 250 lb or less at joint(s) AA, P, V, W, X, Y, Z, U, T, S, R, Q

**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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCFL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only.
  - 4) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 7) Gable studs spaced at 1'-4" oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* 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.
  - 10) Bearing at joint(s) AA, P considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P, W, X, Y, T, S, R except (jt=lb) AA=100, Z=193, Q=184.
  - 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



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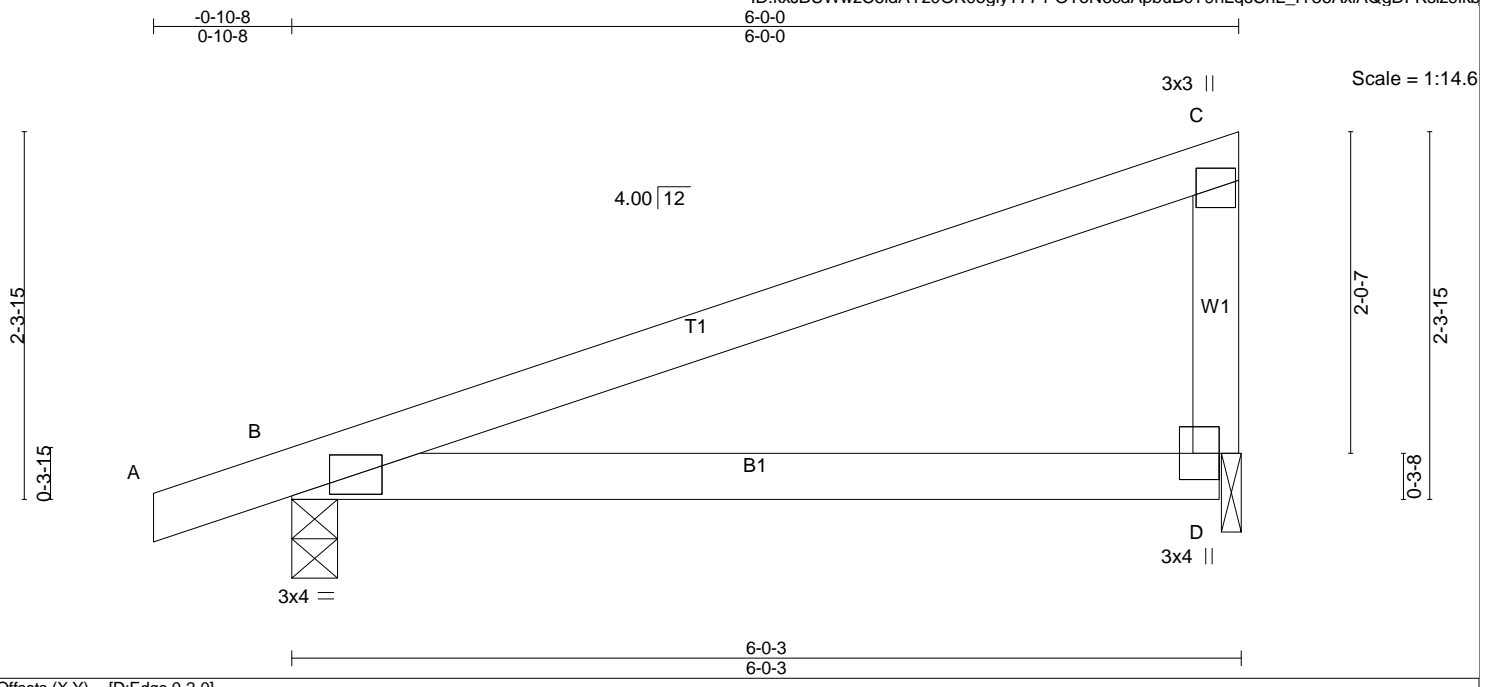


Plate Offsets (X,Y)-- [D:Edge,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(LL) -0.04 D-G >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.09 D-G >819 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.00 B n/a n/a		
	Code IRC2015/TPI2014			Weight: 22 lb	FT = 20%

**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) B=291/0-3-8 (min. 0-1-8), D=230/0-1-8 (min. 0-1-8)  
 Max Horz B=89(LC 9)  
 Max Uplift B=-74(LC 6), D=-48(LC 10)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) D 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 at joint(s) D.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D.
  - 7) This truss is designed in accordance with the 2015 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.

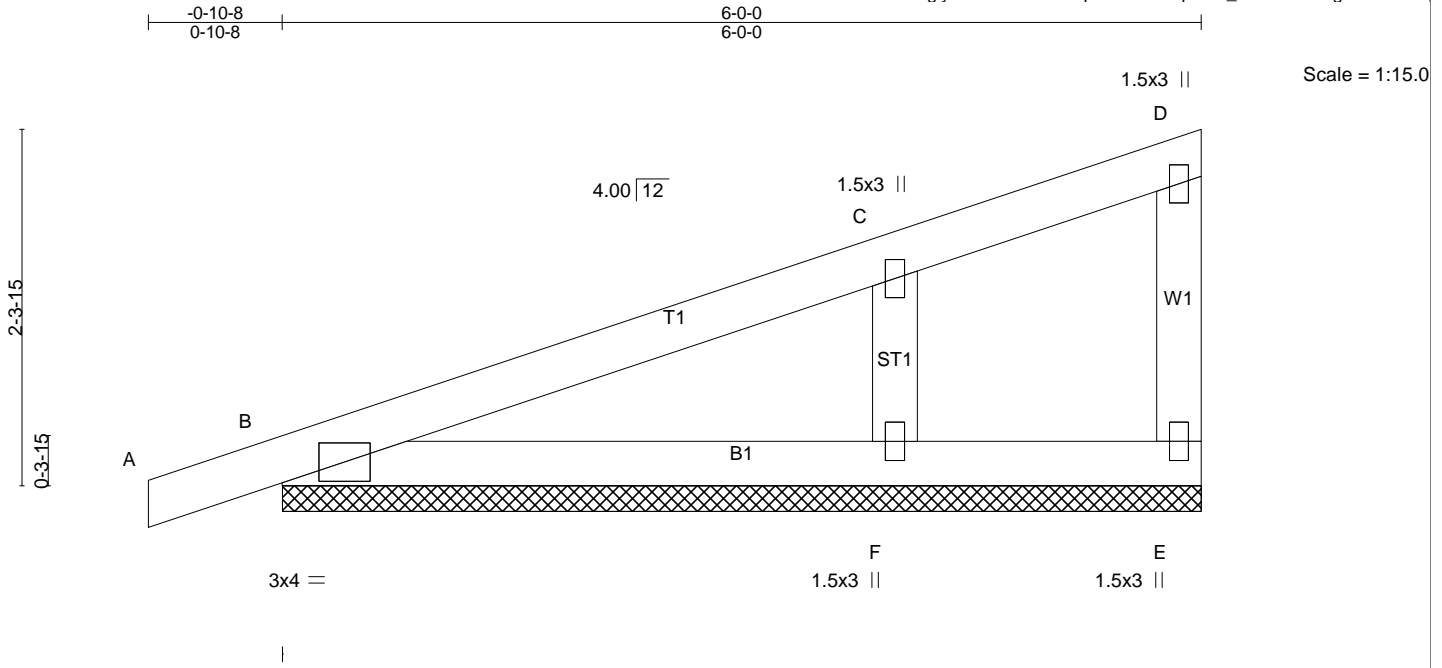


Job <b>69024056</b>	Truss <b>D1A</b>	Truss Type <b>Monopitch Supported Gable</b>	Qty <b>1</b>	Ply <b>1</b>	<b>DANIELS CLASSIC</b>
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Job Reference (optional)

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

8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:24 2019 Page 1  
ID:kxJBuWwzC6idAYz0OK0ogiyT774-OToN6cdApbuBcy9hLqsChL\_M?3AzIMQgDFKsiz9ikb



Scale = 1:15.0

<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 0.17	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) -0.00 A n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) 0.00 A n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 24 lb	FT = 20%

<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	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) E=11/6-0-0 (min. 0-1-8), B=189/6-0-0 (min. 0-1-8), F=321/6-0-0 (min. 0-1-8)  
Max Horz B=89(LC 7)  
Max Uplift E=8(LC 9), B=52(LC 6), F=74(LC 10)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) Gable studs spaced at 2-0-0 oc.
  - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, B, F.
  - 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) B.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



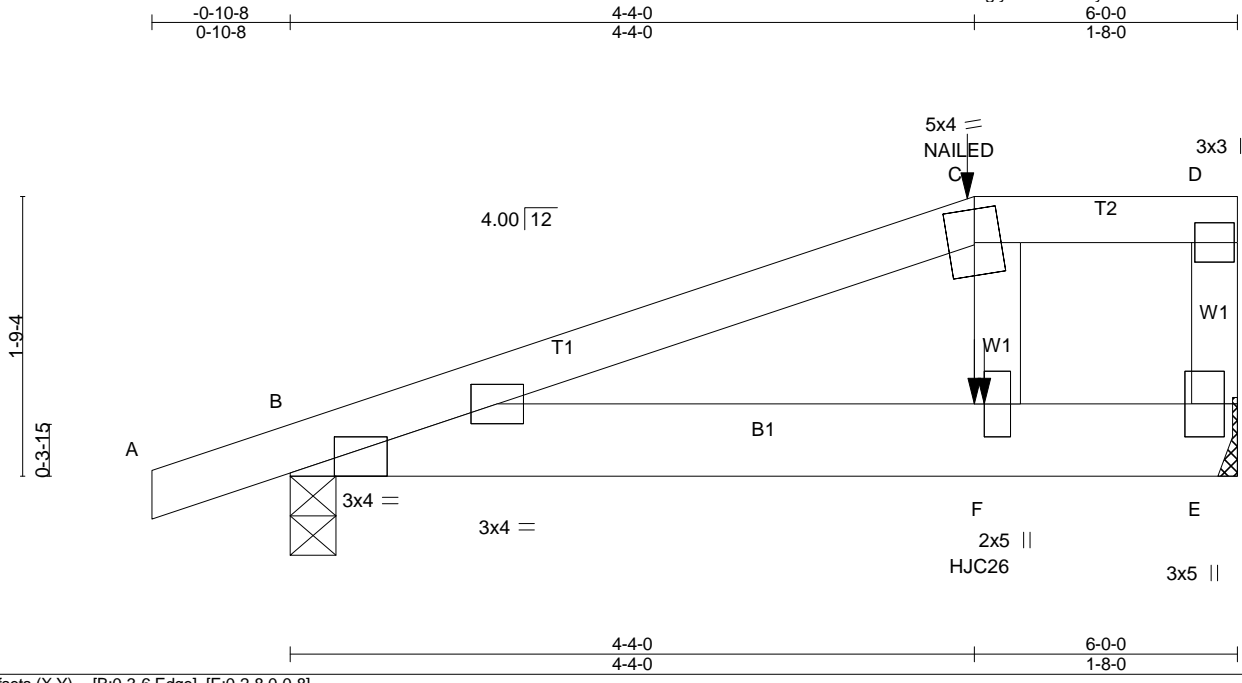
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design 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>69024056</b>	Truss <b>D2</b>	Truss Type <b>Half Hip Girdler</b>	Qty <b>1</b>	Ply <b>1</b>	<b>DANIELS CLASSIC</b>
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:25 2019 Page 1  
 ID:KXJBUWwzC6idAYz0OK0ogiyT774-sfMIJyeoau02EiktYORDYXPITRDgCBavt\_tO9z9ika



Scale = 1:14.6

Plate Offsets (X,Y)-- [B:0-3-6,Edge], [E:0-2-8,0-0-8]

<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 0.68	in (loc) l/def L/d	MT20	244/180
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) -0.03 F-H >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.05 F-H >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 28 lb	FT = 20%

**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, and 2-0-0 oc purlins: C-D.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) E=444/Mechanical, B=367/0-3-8 (min. 0-1-8)  
 Max Horz B=66(LC 5)  
 Max Uplift E=94(LC 4), B=101(LC 4)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Provide adequate drainage to prevent water ponding.
  - 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) E except (jt=lb) B=101.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 8) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 4-4-6 from the left end to connect truss(es) D4 (1 ply 2x4 SP), D6 (1 ply 2x4 SP) to back face of bottom chord.
  - 9) Fill all nail holes where hanger is in contact with lumber.
  - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)  
 Vert: A-C=-60, C-D=-60, B-E=-20

Concentrated Loads (lb)  
 Vert: C=-48(B) F=-244(B)



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 Reference (optional)

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

8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:25 2019 Page 1  
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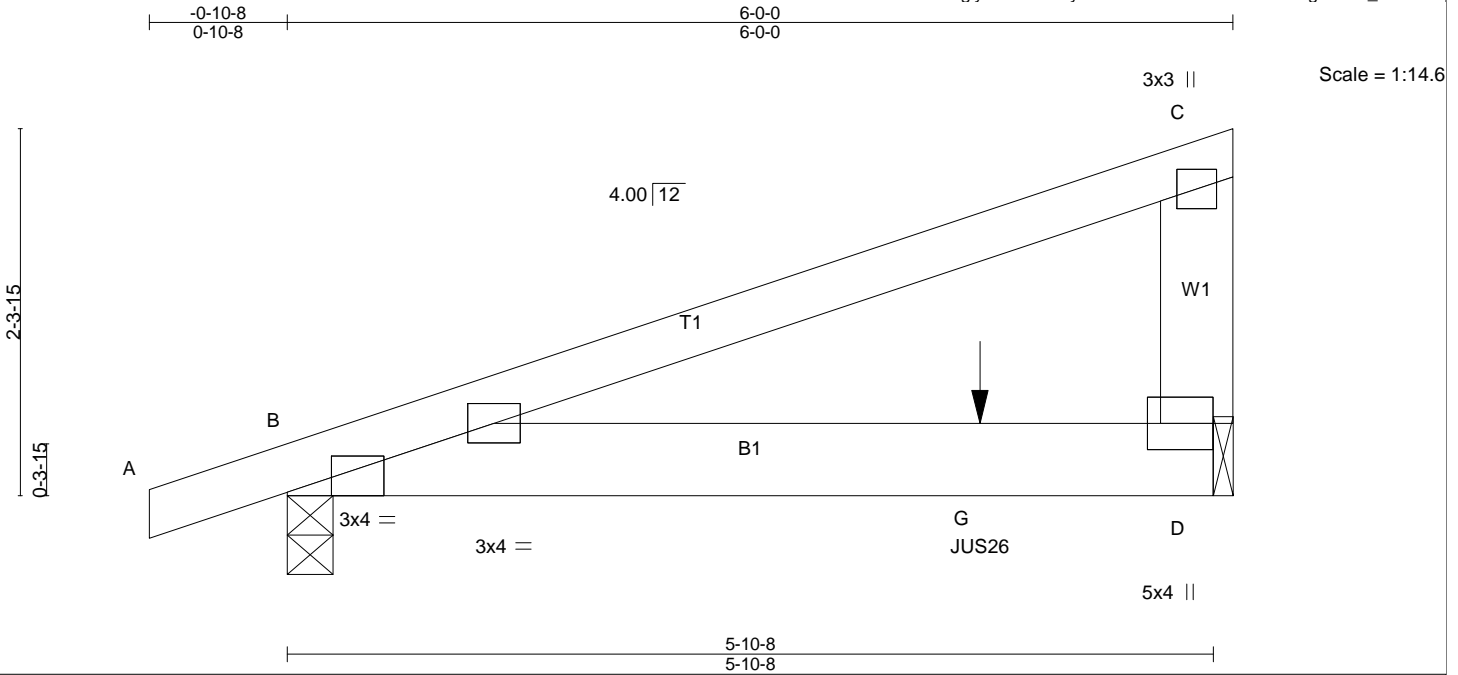


Plate Offsets (X,Y)-- [B:0-3-6,Edge], [D:Edge,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.03 D-F >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.06 D-F >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.00 D n/a n/a		
	Code IRC2015/TPI2014			Weight: 28 lb	FT = 20%

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

**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) D=539/Mechanical, B=395/0-3-8 (min. 0-1-8)  
 Max Horz B=86(LC 20)  
 Max Uplift D=127(LC 8), B=106(LC 4)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=127, B=106.
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 4-4-12 from the left end to connect truss(es) D2 (1 ply 2x6 SP) to front face of bottom chord.
  - 7) Fill all nail holes where hanger is in contact with lumber.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

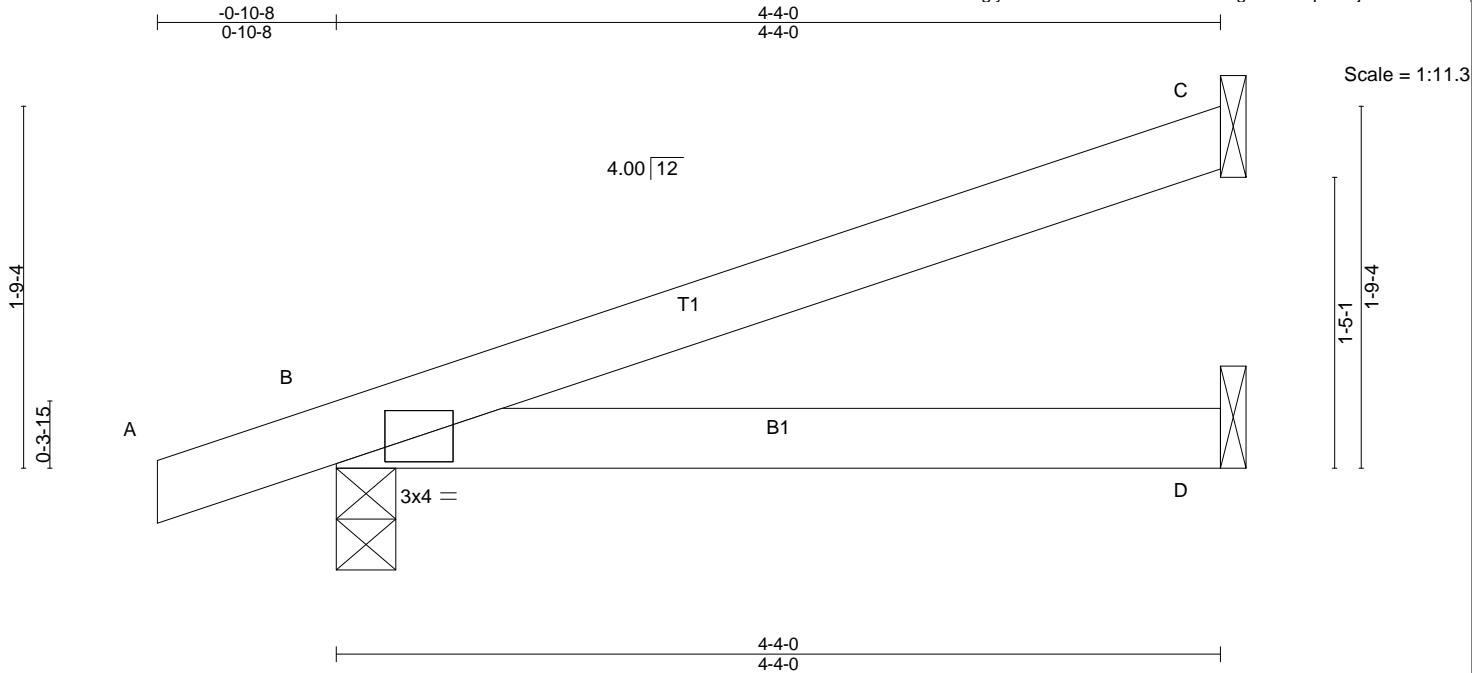
**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: A-C=-60, B-D=-20  
 Concentrated Loads (lb)  
 Vert: G=-424(F)



Job Reference (optional)

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

8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:26 2019 Page 1  
 ID:kkJBuWwzC6idAYz0OK0ogiyT774-Lsv7XleQLC8ussJ3TFvgmm3hNtpwPffj8XkQwbz9ikZ



<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 0.21	Vert(LL) -0.02 D-G >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.03 D-G >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 B n/a n/a		
	Code IRC2015/TPI2014			Weight: 15 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) C=108/Mechanical, B=229/0-3-8 (min. 0-1-8), D=57/Mechanical  
 Max Horz B=70(LC 6)  
 Max Uplift C=47(LC 10), B=60(LC 6)  
 Max Grav C=108(LC 1), B=229(LC 1), D=77(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) C, B.
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



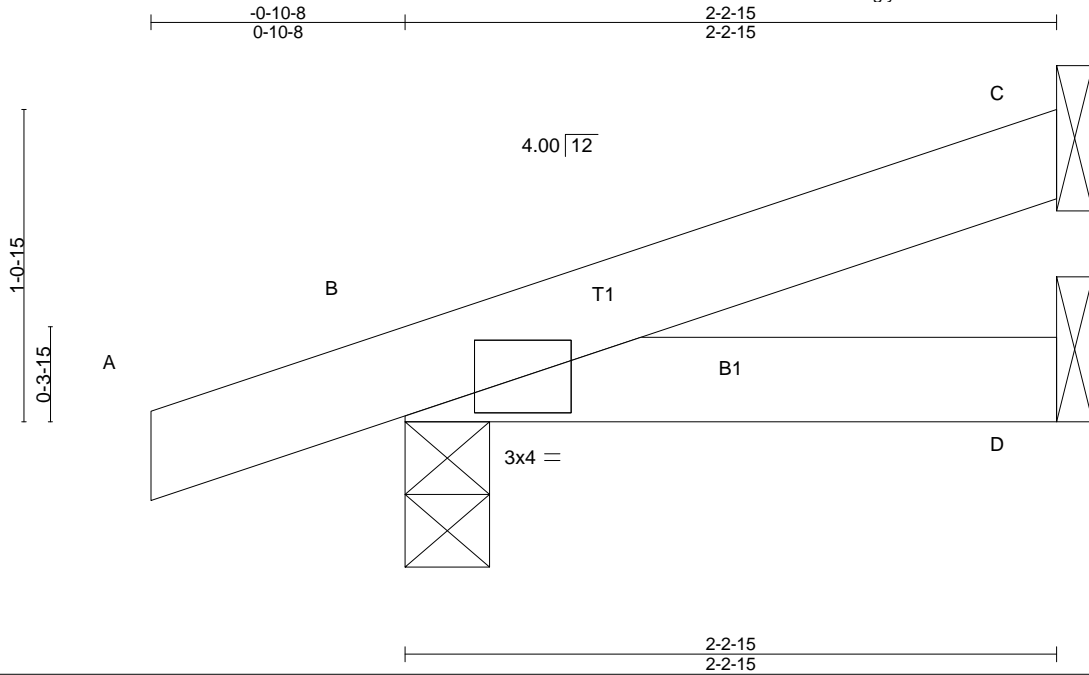
This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design 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 69024056	Truss D5	Truss Type Jack-Open	Qty 2	Ply 1	DANIELS CLASSIC
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Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, MJUDD  
 8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:26 2019 Page 1  
 ID: kxJBUWwzC6idAYz0OK0oglyT774-Lsv7XleQLC8ussJ3TFvgmm3kKtsVPffj8XkQwbz9ikZ



Scale: 1.5"=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 0.05	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 G >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 G >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 B n/a n/a		
	Code IRC2015/TPI2014			Weight: 8 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-15 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) C=49/Mechanical, B=150/0-3-8 (min. 0-1-8), D=28/Mechanical  
 Max Horz B=43(LC 6)  
 Max Uplift C=20(LC 10), B=53(LC 6)  
 Max Grav C=49(LC 1), B=150(LC 1), D=37(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) C, B.
  - 5) This truss is designed in accordance with the 2015 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.



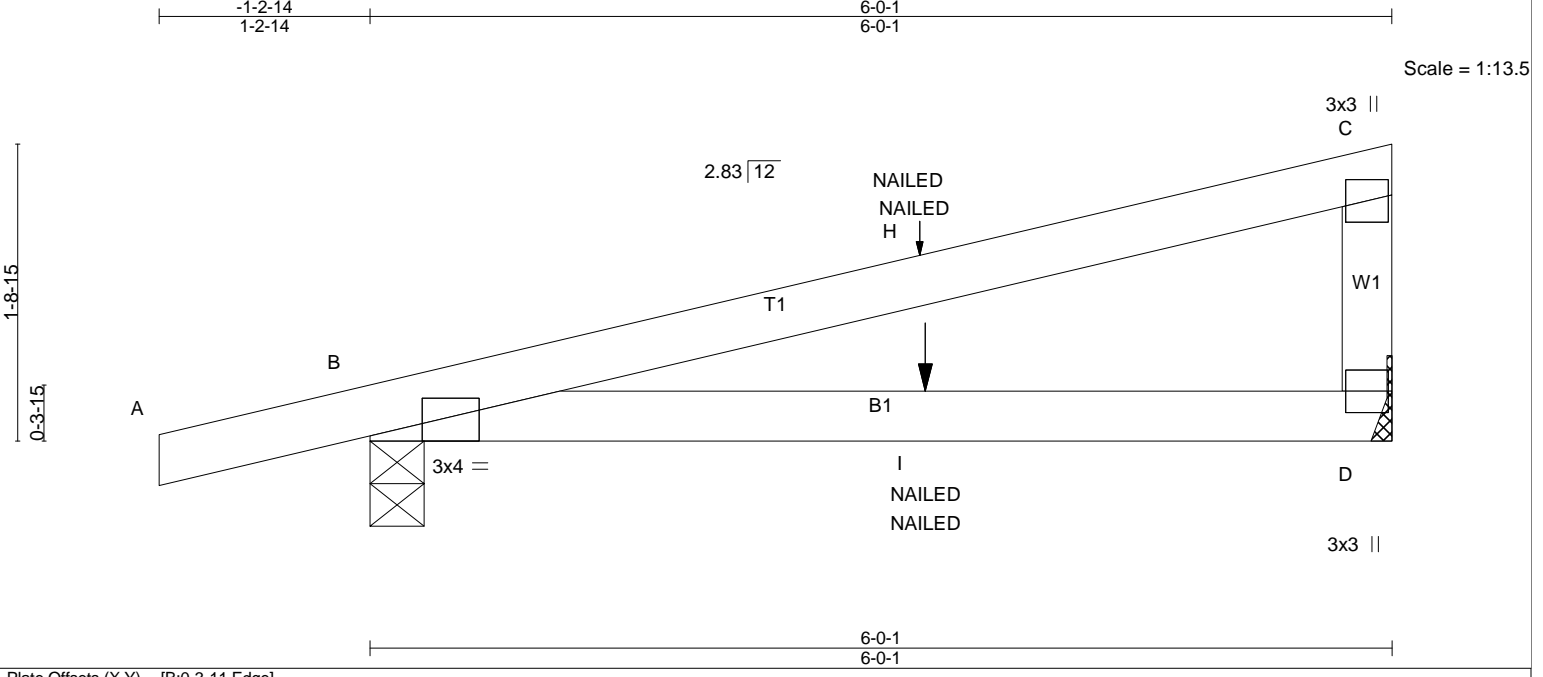


Plate Offsets (X,Y)-- [B:0-3-11,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(LL) -0.04 D-G >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Vert(CT) -0.09 D-G >817 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH	Horz(CT) 0.00 B n/a n/a		
				Weight: 22 lb	FT = 20%

**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) D=235/Mechanical, B=323/0-3-13 (min. 0-1-8)  
 Max Horz B=62(LC 7)  
 Max Uplift D=43(LC 8), B=94(LC 4)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, B.
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: A-C=-60, D-E=-20  
 Concentrated Loads (lb)  
 Vert: I=-16(F=-8, B=-8)

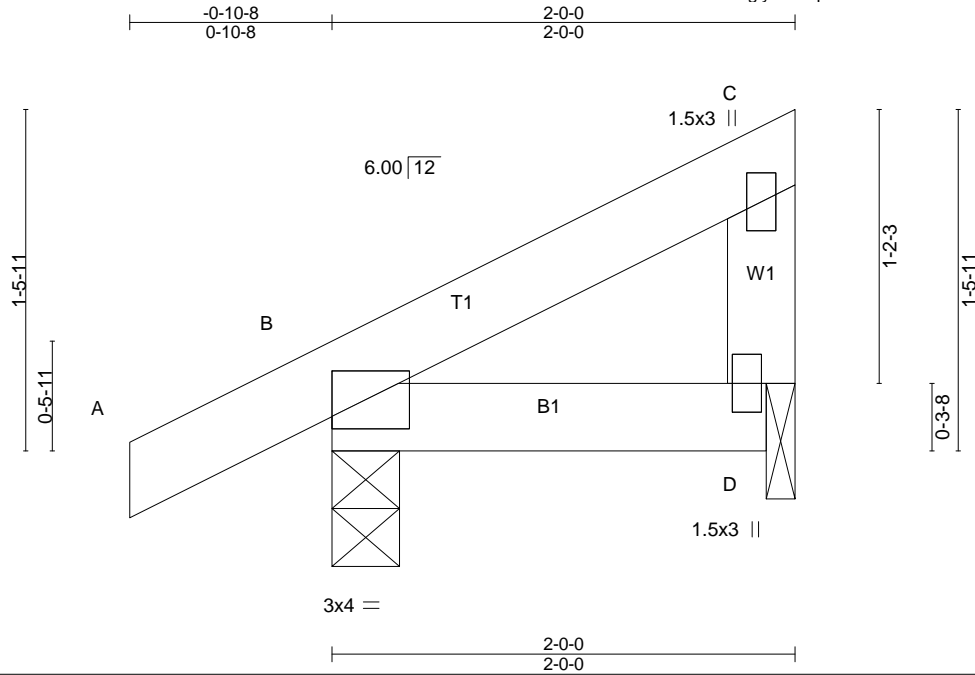




Job Reference (optional)

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

8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:27 2019 Page 1  
 ID:kkJBUWwzC6idAYz0OK0ogiyT774-p2TVkef26WGIT0uG0zQvlzcv3HC\_86vtMBT\_S1z9ikY



Scale = 1:10.0

<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 0.05	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 G >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 G >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 B n/a n/a		
	Code IRC2015/TPI2014			Weight: 9 lb	FT = 20%

**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 2-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) B=139/0-3-8 (min. 0-1-8), D=62/0-1-8 (min. 0-1-8)  
 Max Horz B=49(LC 9)  
 Max Uplift B=31(LC 10), D=15(LC 10)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) D 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 at joint(s) D.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

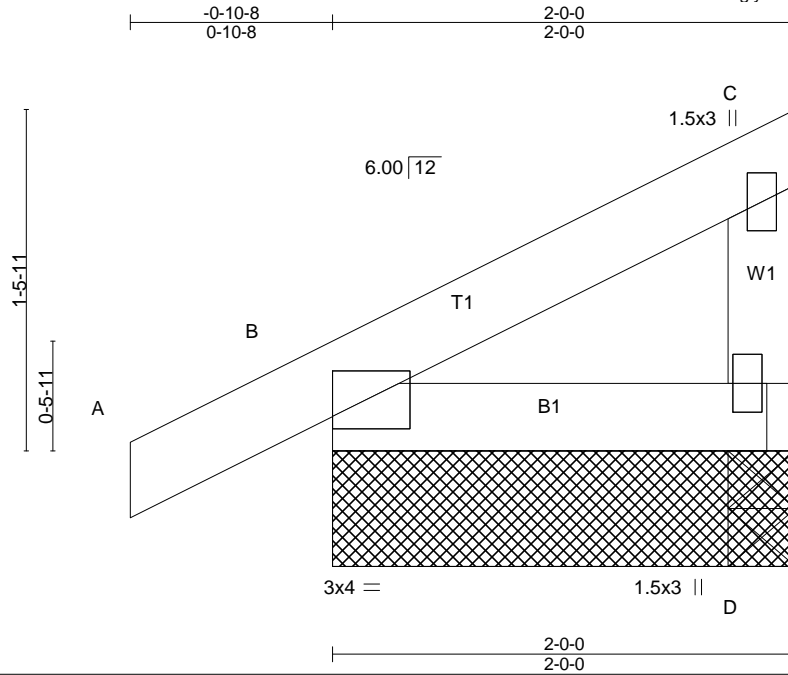


Job 69024056	Truss E2	Truss Type Monopitch Supported Gable	Qty 2	Ply 1	DANIELS CLASSIC
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Job Reference (optional)

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

8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:28 2019 Page 1  
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Scale = 1:10.0

<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 0.05	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 B >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 B-D >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 D n/a n/a		
	Code IRC2015/TPI2014			Weight: 9 lb	FT = 20%

**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 2-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) D=62/2-0-0 (min. 0-1-8), D=62/2-0-0 (min. 0-1-8), B=139/2-0-0 (min. 0-1-8)  
Max Horz B=48(LC 7)  
Max Uplift D=-15(LC 10), B=-31(LC 10)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCdL=6.0psf; BCdL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) D, B.
- 5) This truss is designed in accordance with the 2015 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.



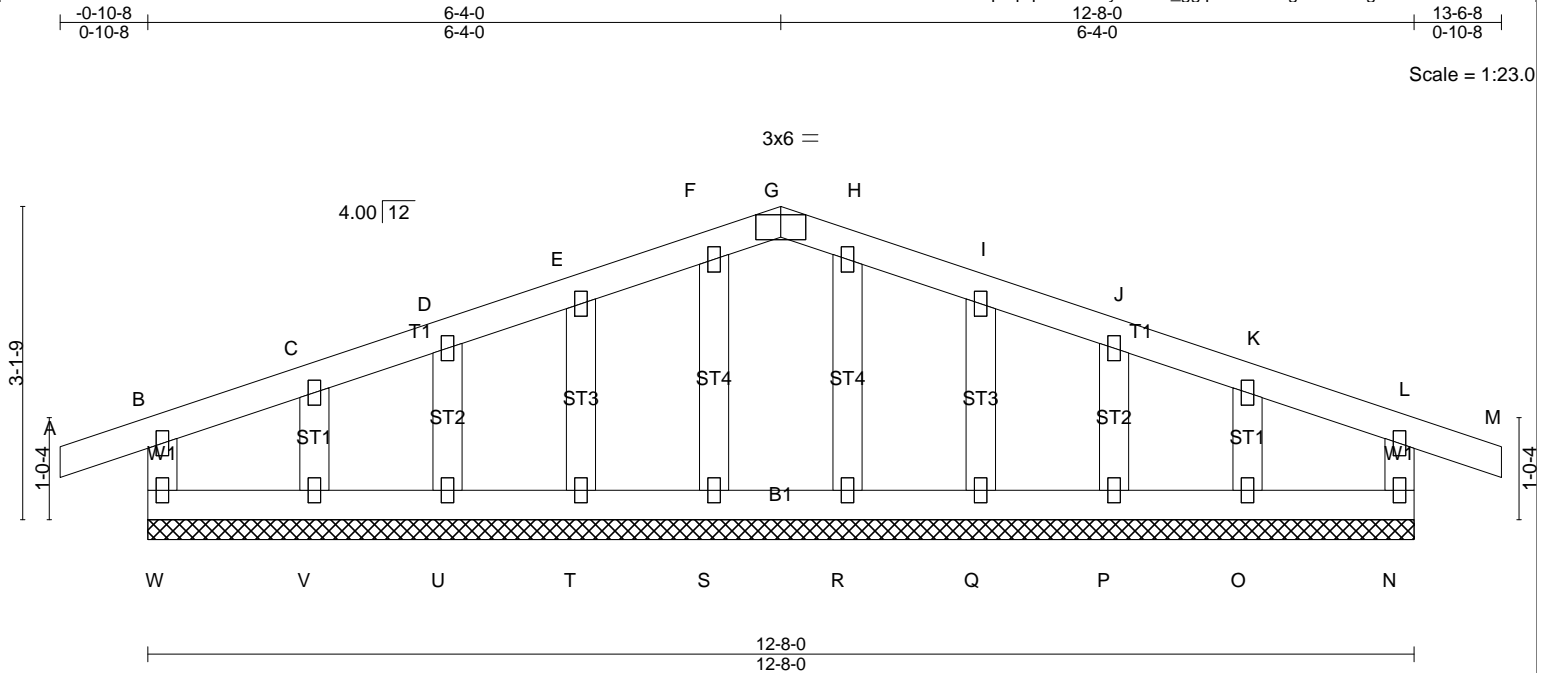


Plate Offsets (X,Y)-- [G:0-3-0,Edge]

<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 0.07	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 M n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.00 M n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 N n/a n/a		
	Code IRC2015/TPI2014			Weight: 63 lb	FT = 20%

**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 6-0-0 oc bracing.

**REACTIONS.** All bearings 12-8-0.  
(lb) - Max Horz W=-15(LC 15)  
Max Uplift All uplift 100 lb or less at joint(s) W, N, T, U, V, Q, P, O  
Max Grav All reactions 250 lb or less at joint(s) W, N, S, T, U, V, R, Q, P, O

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

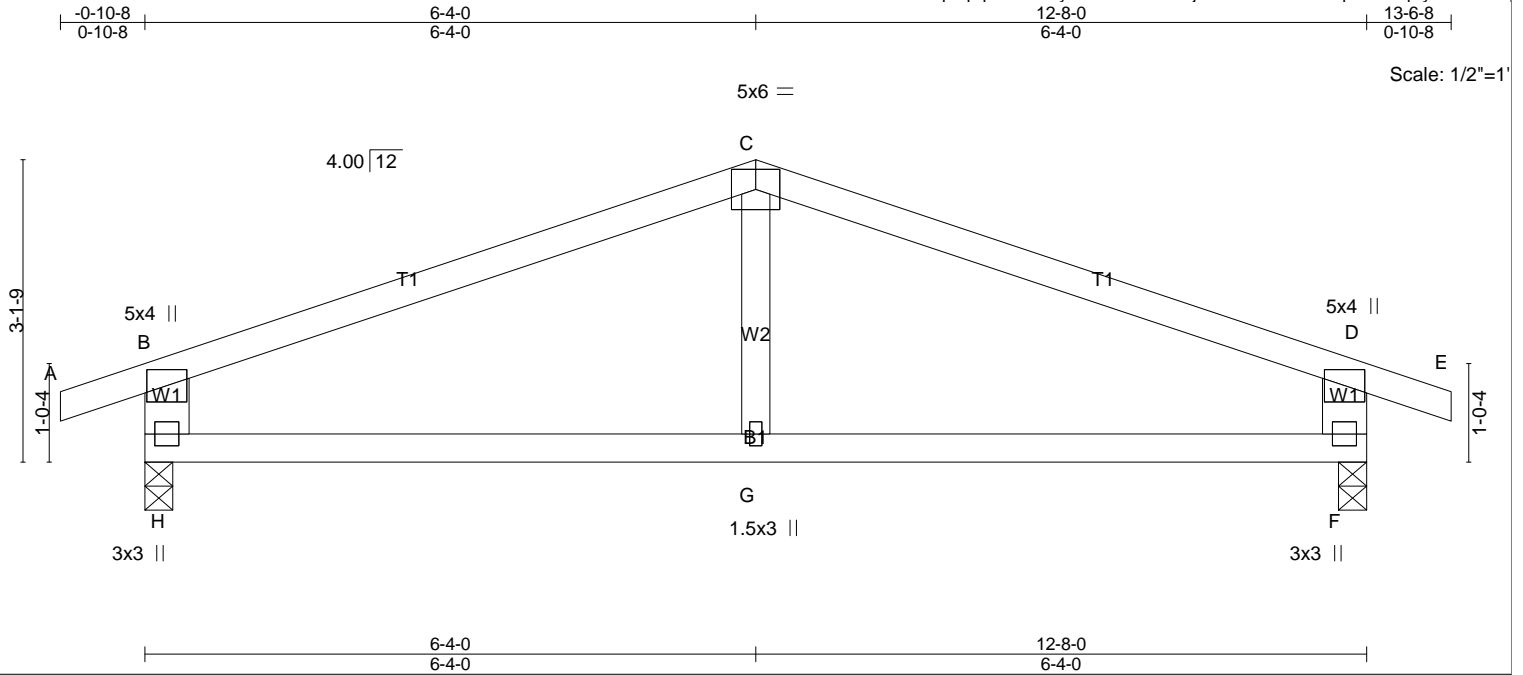
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only.
  - 4) All plates are 1.5x3 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 7) Gable studs spaced at 1-4-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* 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.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) W, N, T, U, V, Q, P, O.
  - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



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<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 0.72	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) -0.05 G-H >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) -0.11 G-H >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.01 F n/a n/a		
	Code IRC2015/TPI2014			Weight: 48 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x6 SP No.2 \*Except\*  
W2: 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=555/0-3-8 (min. 0-1-8), F=555/0-3-8 (min. 0-1-8)  
Max Horz H=-14(LC 15)  
Max Uplift H=-112(LC 6), F=-112(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD B-C=-629/196, C-D=-629/196, B-H=-475/236, D-F=-475/236  
BOT CHORD G-H=-70/527, F-G=-70/527

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) except (j=lb) H=112, F=112.
  - This truss is designed in accordance with the 2015 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.

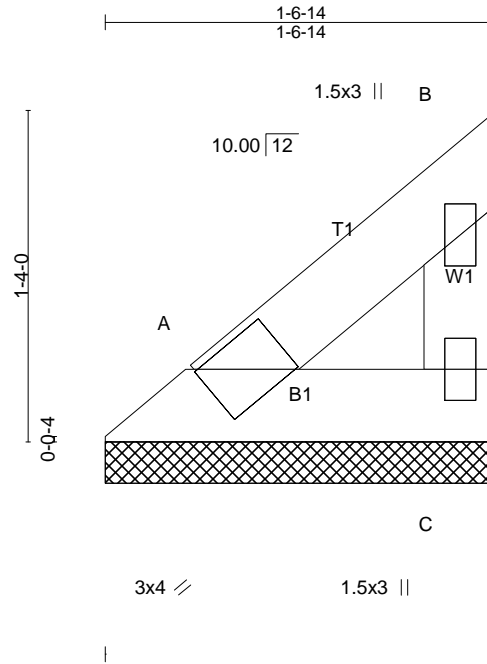


Job <b>69024056</b>	Truss <b>V1</b>	Truss Type <b>Valley</b>	Qty <b>1</b>	Ply <b>1</b>	<b>DANIELS CLASSIC</b>
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Job Reference (optional)

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

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Scale = 1:9.3

<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 IRC2015/TPI2014	<b>CSI.</b> TC 0.02 BC 0.01 WB 0.00 Matrix-P	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 C n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight: 6 lb FT = 20%
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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 1-7-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) A=42/1-6-14 (min. 0-1-8), C=42/1-6-14 (min. 0-1-8)  
Max Horz A=33(LC 7)  
Max Uplift C=-15(LC 10)  
Max Grav A=43(LC 18), C=49(LC 17)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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) C.
- 6) This truss is designed in accordance with the 2015 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.

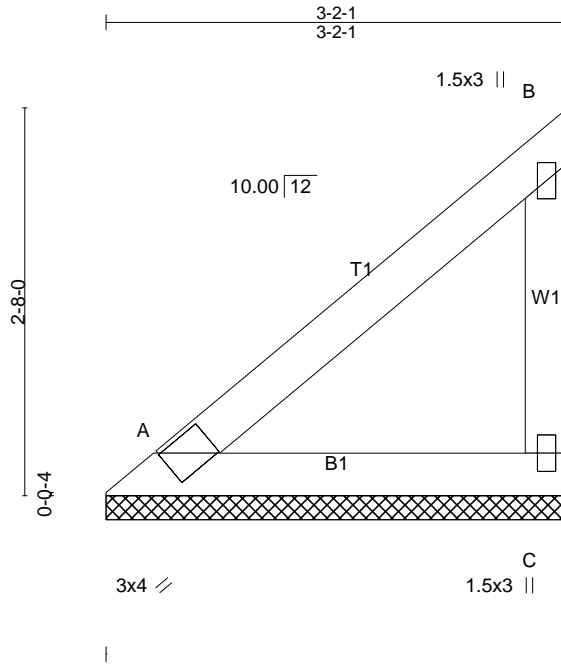


Job 69024056	Truss V2	Truss Type Valley	Qty 1	Ply 1	DANIELS CLASSIC
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Job Reference (optional)

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

8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:30 2019 Page 1  
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Scale: 3/4"=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 0.13	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 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 C n/a n/a		
	Code IRC2015/TPI2014			Weight: 13 lb	FT = 20%

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

**REACTIONS.** (lb/size) A=106/3-2-1 (min. 0-1-8), C=106/3-2-1 (min. 0-1-8)  
Max Horz A=83(LC 9)  
Max Uplift A=1(LC 10), C=38(LC 10)  
Max Grav A=108(LC 18), C=123(LC 17)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

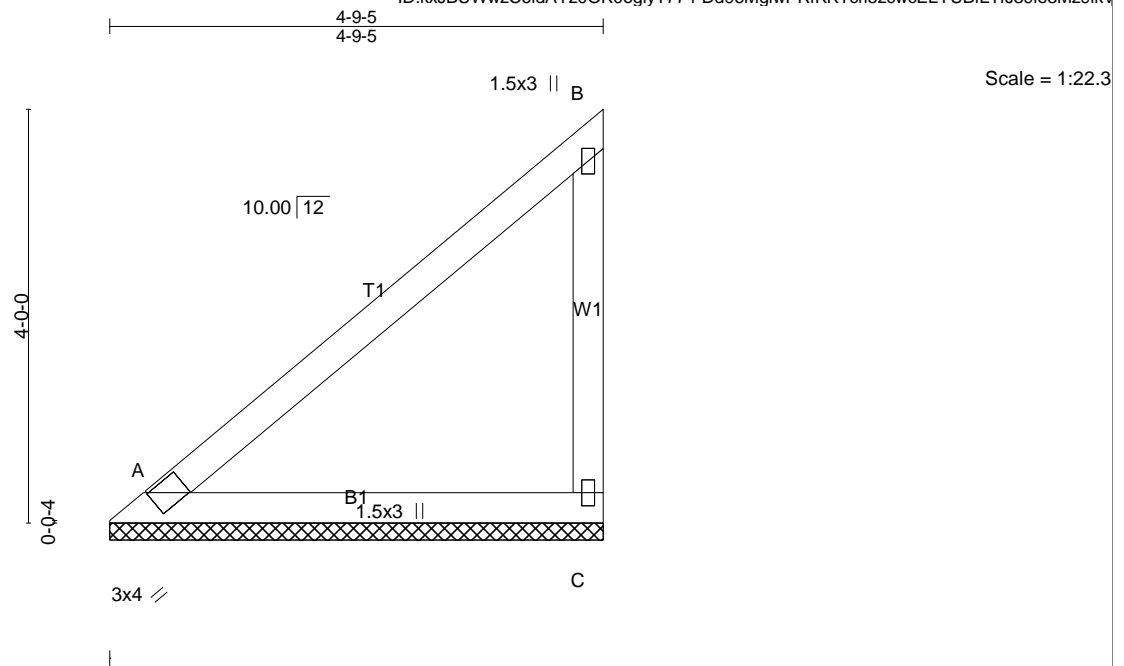


This truss is to be fabricated per ANSI/TPI quality requirements. Plates shall be of size and type shown and centered at joints unless otherwise noted. This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design 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 69024056	Truss V3	Truss Type Valley	Qty 1	Ply 1	DANIELS CLASSIC
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Job Reference (optional)  
8,240 s Feb 11 2019 MiTek Industries, Inc. Tue Jun 4 10:08:30 2019 Page 1  
ID:kkJBUWwzC6idAYz0OK0ogiyT774-Dd9eMgiwPRfKKTcri5zcwELYUBfLTfJ39ie3Mz9ikV



<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 IRC2015/TPI2014	<b>CSI.</b> TC 0.36 BC 0.22 WB 0.00 Matrix-P	<b>DEFL.</b> in (loc) l/def L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 C n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight: 21 lb FT = 20%
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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 4-9-10 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=170/4-9-5 (min. 0-1-8), C=170/4-9-5 (min. 0-1-8)  
Max Horz A=134(LC 7)  
Max Uplift A=-2(LC 10), C=-60(LC 10)  
Max Grav A=173(LC 18), C=197(LC 17)

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

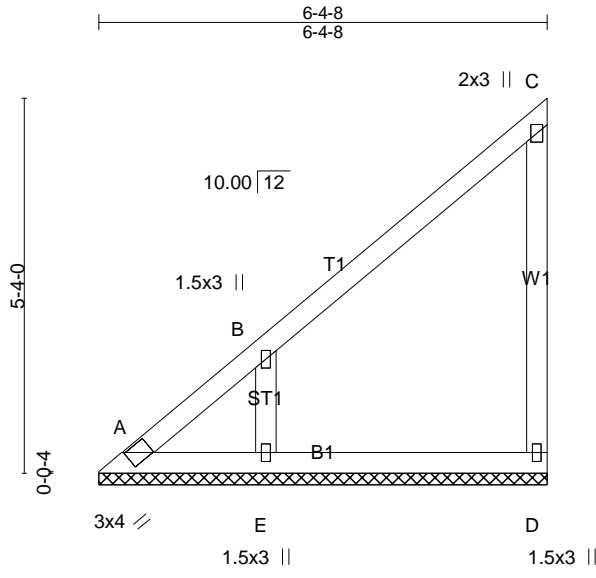
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 2015 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 = 1:32.8

<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/def L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Vert(CT) n/a - n/a 999		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH	Horz(CT) -0.00 D n/a n/a		
				Weight: 30 lb	FT = 20%

<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	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** (lb/size) A=35/6-4-8 (min. 0-1-8), D=131/6-4-8 (min. 0-1-8), E=302/6-4-8 (min. 0-1-8)  
 Max Horz A=184(LC 7)  
 Max Uplift A=-47(LC 8), D=-54(LC 7), E=-156(LC 10)  
 Max Grav A=114(LC 7), D=158(LC 17), E=331(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS B-E=-272/207

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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, D except (jt=lb) E=156.
  - 6) This truss is designed in accordance with the 2015 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.

