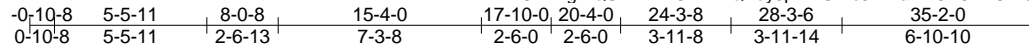


Job 20040580	Truss A1	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber ID:CVK1gr7QSWTTHCrKHQDQBuy5p?F-GVwC0ifY1aFTI8BCXFCWodrZ?IQ4x2g7qmkbvzS7aj 8,320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:32 2020 Page 1



Scale = 1:82.7

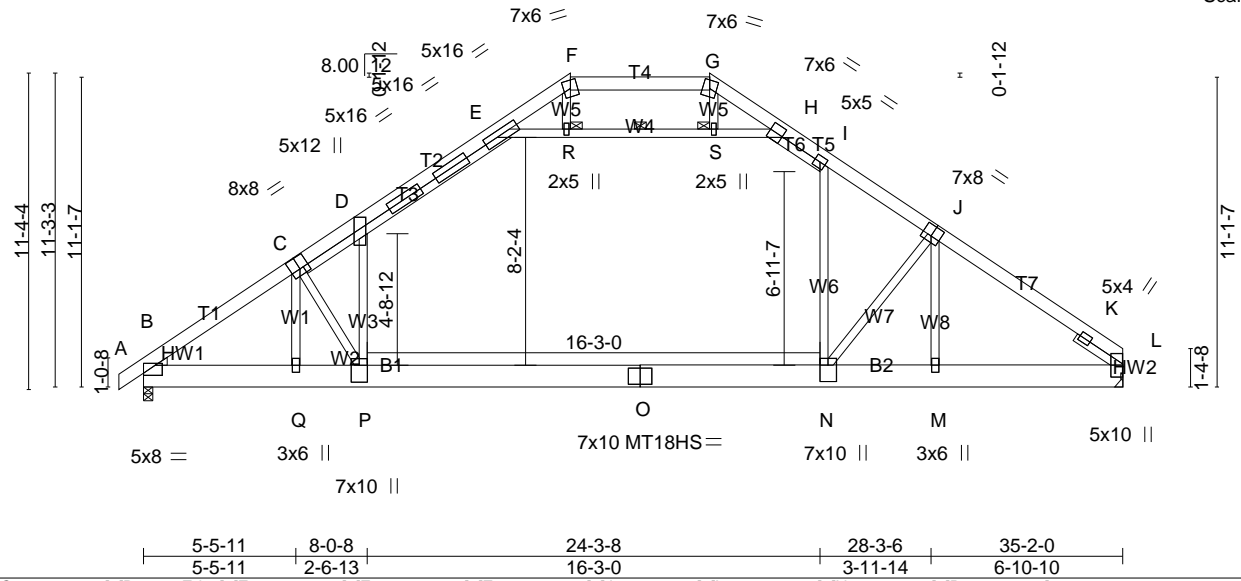


Plate Offsets (X,Y)-- [C:0-4-0,0-2-12], [D:0-9-6,Edge], [E:0-6-13,0-2-8], [E:0-6-12,0-2-8], [E:0-6-13,0-2-8], [J:0-4-0,0-4-8], [L:0-5-10,0-0-3], [N:0-7-0,0-3-8], [P:0-7-4,0-3-8]

LOADING (psf)	SPACING - 2-0-0	CSI	DEFL in (loc)	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.55	N-P >766	240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.99	Vert(CT) -0.78	N-P >539	180	MT18HS 244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.03	L n/a	n/a	
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH	Attic -0.33	N-P 602	360	Weight: 323 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP SS, T5: 2x6 SP No.1, T3: 2x4 SP SS, T6: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): F-G.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3,W4,W6: 2x4 SP No.2	WEBS 1 Row at midpt R-S
WEDGE Left: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): R, S
SLIDER Right 2x4 SP No.3 - 1-11-12	
REACTIONS. (lb/size) B=1549/0-4-0, L=1482/Mechanical Max Horz B=260(LC 7) Max Uplift B=103(LC 10), L=88(LC 11) Max Grav B=1926(LC 18), L=1776(LC 19)	
FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD A-B=0/29, B-C=2715/273, C-D=3044/240, D-E=2013/314, E-F=370/163, F-G=173/375, G-H=316/297, H-I=1835/320, I-J=2585/306, J-K=2345/283, K-L=1247/0 BOT CHORD B-Q=199/2396, P-Q=188/2419, O-P=-19/2033, N-O=-19/2033, M-N=128/1887, L-M=128/1885 WEBS C-Q=-1012/182, D-P=0/1961, E-R=-2201/251, R-S=-2214/249, H-S=-2213/251, I-N=5/1243, J-N=-339/432, J-M=-812/149, F-R=0/202, G-S=-10/89, C-P=-777/405	

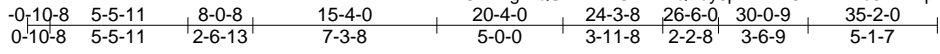
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end 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) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Ceiling dead load (5.0 psf) on member(s). D-E, H-I, E-R, R-S, H-S
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. N-P
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint B and 88 lb uplift at joint L.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20040580	Truss A1A	Truss Type ROOF TRUSS	Qty 4	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:33 2020 Page 1

ID:CVK1gr7QSWTTIHCrKHDDQBuy5p?F-kiAOW?ZfLZb9mLnkpV21A2WB3qQDn4oz4RT9ALzS7at



Scale = 1:91.3

Plate Offsets (X,Y)-- [C:0-4-0,0-2-12], [D:0-9-6,Edge], [E:0-5-12,0-2-6], [I:0-3-8,0-4-4], [K:0-4-0,0-4-8], [N:0-2-0,0-3-4], [R:0-7-0,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	-0.52	P-R	>801	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT)	-0.74	P-R	>566	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.04	L	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-SH	Attic	-0.32	P-R	628		
								Weight: 321 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP SS, T3,T5: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 2-5-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): F-G.
BOT CHORD 2x10 SP No.1 *Except* B3: 2x4 SP No.3, B4: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3,W6,W4: 2x4 SP No.2	WEBS 1 Row at midpt T-U
	JOINTS 1 Brace at Jt(s): T, U

REACTIONS. (lb/size) B=1551/0-4-0, L=1472/Mechanical
 Max Horz B=262(LC 7)
 Max Uplift B=104(LC 10), L=87(LC 11)
 Max Grav B=1928(LC 18), L=1766(LC 19)

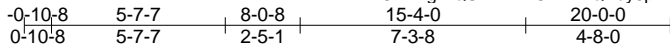
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/12, B-C=-2818/269, C-D=-3004/238, D-E=-2000/312, E-F=-408/161, F-G=-191/291, G-H=-332/240, H-I=-1803/318, I-J=-2991/388, J-K=-2699/317, K-L=-2978/310
 BOT CHORD B-S=-199/2394, R-S=-188/2409, Q-R=-21/2006, P-Q=-21/2006, O-P=-53/215, N-O=-1093/195, J-N=-793/143, M-N=-190/2442, L-M=-190/2443
 WEBS D-R=0/1916, N-P=-6/2081, I-N=-401/1247, K-N=-391/157, I-P=-347/1206, E-T=-2102/250, T-U=-2112/248, H-U=-2108/250, F-T=0/212, G-U=-13/83, C-S=-797/217, C-R=-822/397, K-M=0/202

- 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) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Ceiling dead load (5.0 psf) on member(s). D-E, H-I, E-T, T-U, H-U
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. P-R
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint B and 87 lb uplift at joint L.
 - 10) 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.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20040580	Truss A2	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber ID:CVK1gr7QSWTTIHCrKHQBBuy5p?F-Dvkn7LaH6tk0NUMwMdZGjG3LVDrVWdT6J5DiozS7ah 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:34 2020 Page 1



Scale = 1:74.4

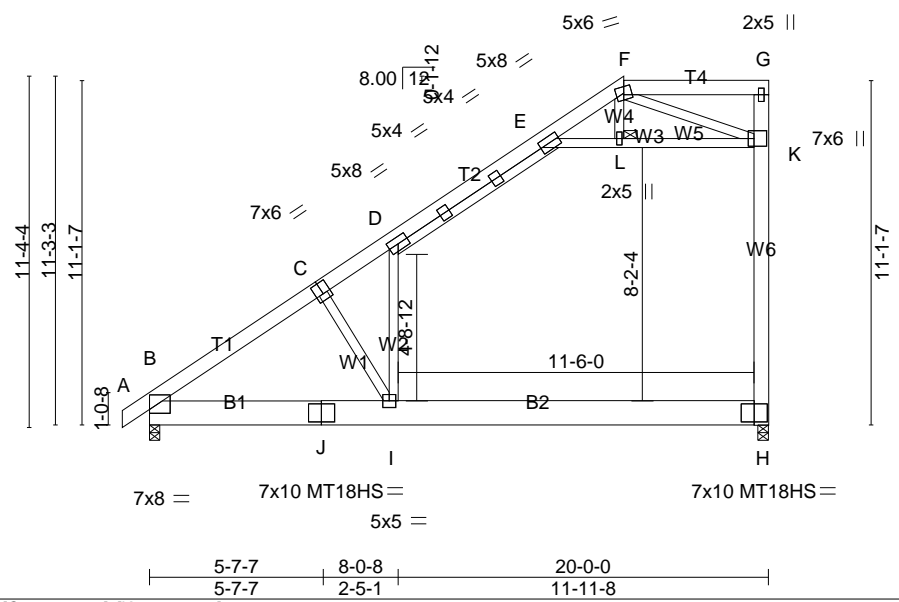


Plate Offsets (X,Y)-- [B:0-0-0,0-1-5], [C:0-3-0,0-4-8], [K:0-3-0,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.52	H-I	>460	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.85	H-I	>280	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.05	B	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-MSH	Attic	-0.28	H-I	514		
									Weight: 201 lb FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T2: 2x6 SP SS, T3: 2x4 SP SS
BOT CHORD 2x10 SP No.1 *Except*
B2: 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
W6: 2x6 SP SS, W2,W3: 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 (10-0-0 max.): F-G.
BOT CHORD Rigid ceiling directly applied or 8-3-4 oc bracing.
JOINTS 1 Brace at Jt(s): L

REACTIONS. (lb/size) B=880/0-4-0, H=873/0-4-0
Max Horz B=411(LC 10)
Max Uplift B=-26(LC 10), H=-137(LC 10)
Max Grav B=1050(LC 18), H=1283(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/29, B-C=-841/0, C-D=-752/0, D-E=-341/29, E-F=-272/117, F-G=-209/900, H-K=-514/216, G-K=-118/70
BOT CHORD B-J=-321/786, I-J=-321/786, H-I=-203/342
WEBS D-I=0/761, E-L=-321/250, K-L=-324/247, F-L=0/50, F-K=-1168/479, C-I=-932/254

- 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 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) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Ceiling dead load (5.0 psf) on member(s). D-E, E-L, K-L
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. H-I
 - 9) 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.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint B and 137 lb uplift at joint H.
 - 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.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20040580	Truss A3	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-h519LhbvtAst?ex6wK4VFTbWDd83F_1GXlyGEEzS7ag

0-10-8 5-6-12 8-0-8 15-4-0 19-8-8 19-9-0
0-10-8 5-6-12 2-5-12 7-3-8 4-4-8 0-0-8

Scale = 1:74.4

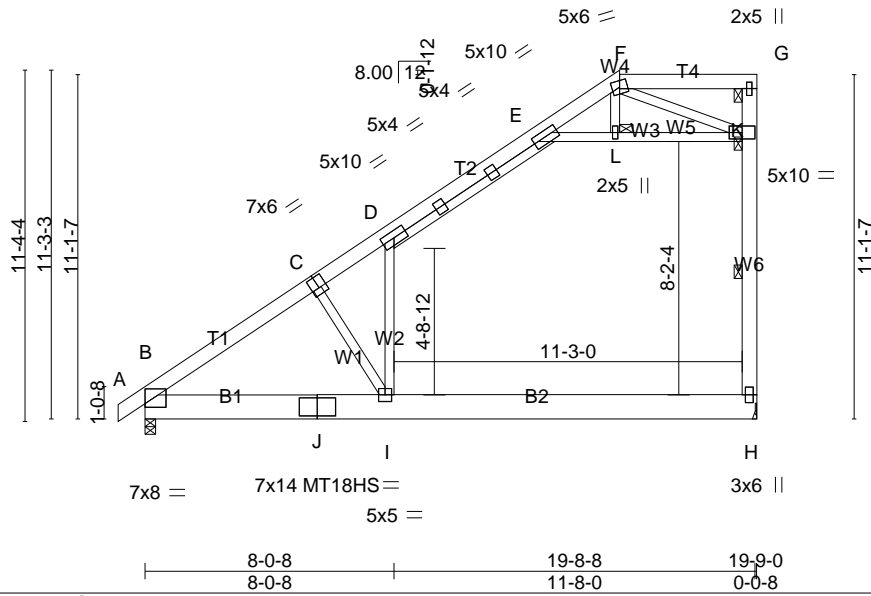


Plate Offsets (X,Y)-- [B:0-0-0,0-1-5], [C:0-3-0,0-4-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL) -0.63 H-I >369 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -1.04 H-I >225 180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.06 B n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH	Attic -0.34 H-I 409 360		
				Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP SS, T3: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): F-G.
BOT CHORD 2x10 SP No.1 *Except* B2: 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-6-1 oc bracing.
WEBS 2x4 SP No.3 *Except* W2,W3: 2x4 SP No.2, W6: 2x6 SP SS	WEBS 1 Row at midpt H-K
	JOINTS 1 Brace at Jt(s): G, K, L

REACTIONS. (lb/size) B=869/0-4-0, H=861/Mechanical
Max Horz B=411(LC 10)
Max Uplift B=24(LC 10), H=141(LC 10)
Max Grav B=1034(LC 18), H=1269(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/29, B-C=-751/0, C-D=-644/0, D-E=-232/4, E-F=-318/83, F-G=-183/789
BOT CHORD B-J=-179/696, I-J=-179/696, H-I=-37/161
WEBS D-I=0/806, E-L=-133/308, K-L=-135/305, F-L=0/45, F-K=-1221/380, C-I=-1046/278, H-K=-547/184, G-K=-101/58

- 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 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) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Ceiling dead load (5.0 psf) on member(s). D-E, E-L, K-L
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. H-I
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint B and 141 lb uplift at joint H.
 - 10) 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.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20040580	Truss A4	Truss Type PIGGYBACK BASE	Qty 1	Ply 2	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:36 2020 Page 1
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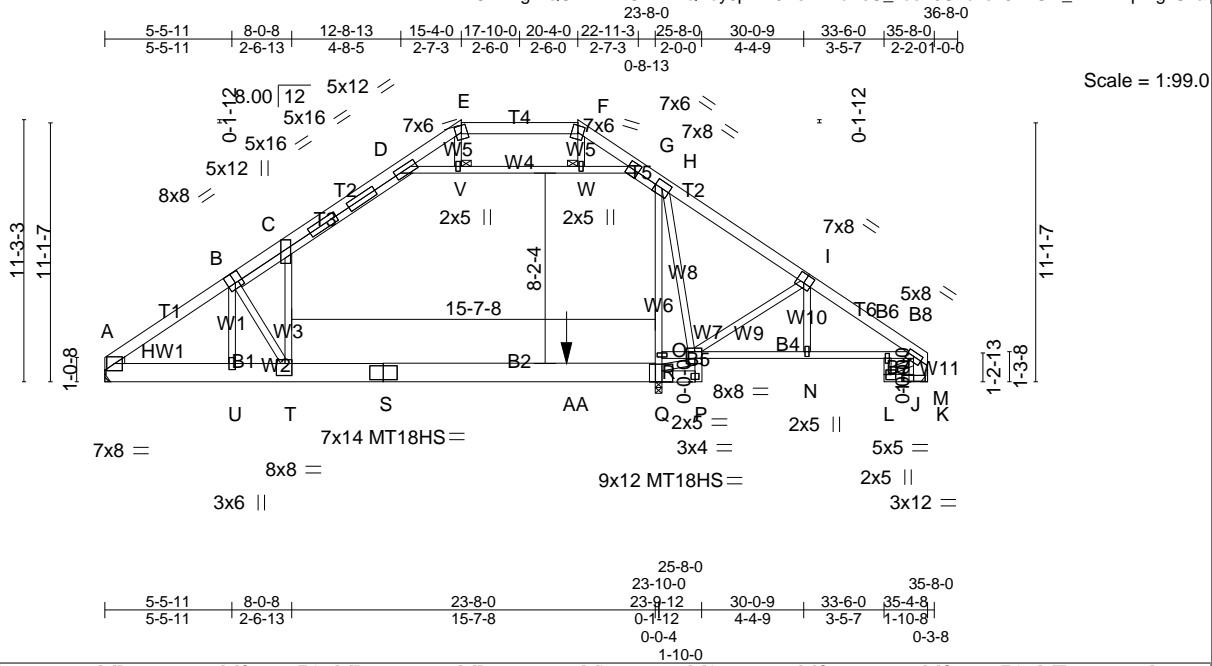


Plate Offsets (X,Y)-- [A:0-8-9,0-3-6], [A:0-2-8,0-1-11], [B:0-4-0,0-2-12], [C:0-9-6,Edge], [D:0-6-13,0-2-8], [D:0-6-13,0-2-8], [I:0-4-0,0-4-8], [J:0-3-8,0-2-4], [O:0-3-8,0-2-12], [Q:0-5-8,Edge], [T:0-3-8,0-6-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.45 Q-T >630 240	MT18HS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.59	Vert(CT) -0.75 Q-T >381 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.05 K n/a n/a		
	Code IRC2015/TPI2014		Attic -0.33 Q-T 576 360	Weight: 624 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 T2: 2x6 SP SS, T3,T5: 2x4 SP SS
 BOT CHORD 2x4 SP No.2 *Except*
 B1: 2x10 SP No.1, B2: 2x10 SP 2400F 2.0E, B5: 2x4 SP No.3, B3: 2x6 SP SS
 B8: 2x8 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W3,W4,W6: 2x4 SP No.2
 WEDGE
 Left: 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.): E-F.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: O-P,P-Q.
 JOINTS 1 Brace at Jt(s): V, W

REACTIONS. (lb/size) A=1887/Mechanical, Q=1469/0-3-8, K=1610/Mechanical
 Max Horz A=250(LC 5)
 Max Uplift A=236(LC 8), Q=437(LC 4), K=192(LC 8)
 Max Grav A=2290(LC 16), Q=1802(LC 17), K=1854(LC 16)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=3338/364, B-C=3818/393, C-D=2269/347, D-E=211/263, E-F=-34/466, F-G=224/322, G-H=2162/365, H-I=2863/429, I-J=-3132/379
 BOT CHORD A-U=-396/2935, T-U=-397/2975, S-T=-247/2473, S-AA=-247/2473, Q-AA=-247/2473, K-L=-4/48, L-M=0/32, O-R=-75/16, N-O=-270/2583, M-N=-270/2583, J-M=-263/2529, O-P=-1874/184, P-Q=-59/14, J-K=-1853/203
 WEBS C-T=-180/2840, D-V=-2787/491, V-W=-2796/489, G-W=-2789/490, Q-R=-321/1730, H-R=-323/1704, I-N=0/183, B-U=-1251/175, I-O=-439/188, H-O=-668/232, O-Q=-277/2920, J-L=-10/16, B-T=-1010/311, E-V=0/146, F-W=0/114

- 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: 2x10 - 2 rows staggered at 0-4-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; 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.
 - 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). C-D, G-H, D-V, V-W, G-W
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. Q-T
 - Bearing at joint(s) Q 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 236 lb uplift at joint A, 437 lb uplift at joint Q and 192 lb uplift at joint K.
 - 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.
 - Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2011 lb down and 366 lb up at 19-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - Attic room checked for L/360 deflection.

Job 20040580	Truss A4	Truss Type PIGGYBACK BASE	Qty 1	Ply 2	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

Job Reference (optional)

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:37 2020 Page 2
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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=-70, D-E=-60, E-F=-60, F-G=-60, G-H=-70, H-J=-60, P-X=-20, D-G=-10, K-L=-20, M-O=-20

Concentrated Loads (lb)

Vert: AA=-2000(F)

Job 20040580	Truss A5	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:38 2020 Page 1
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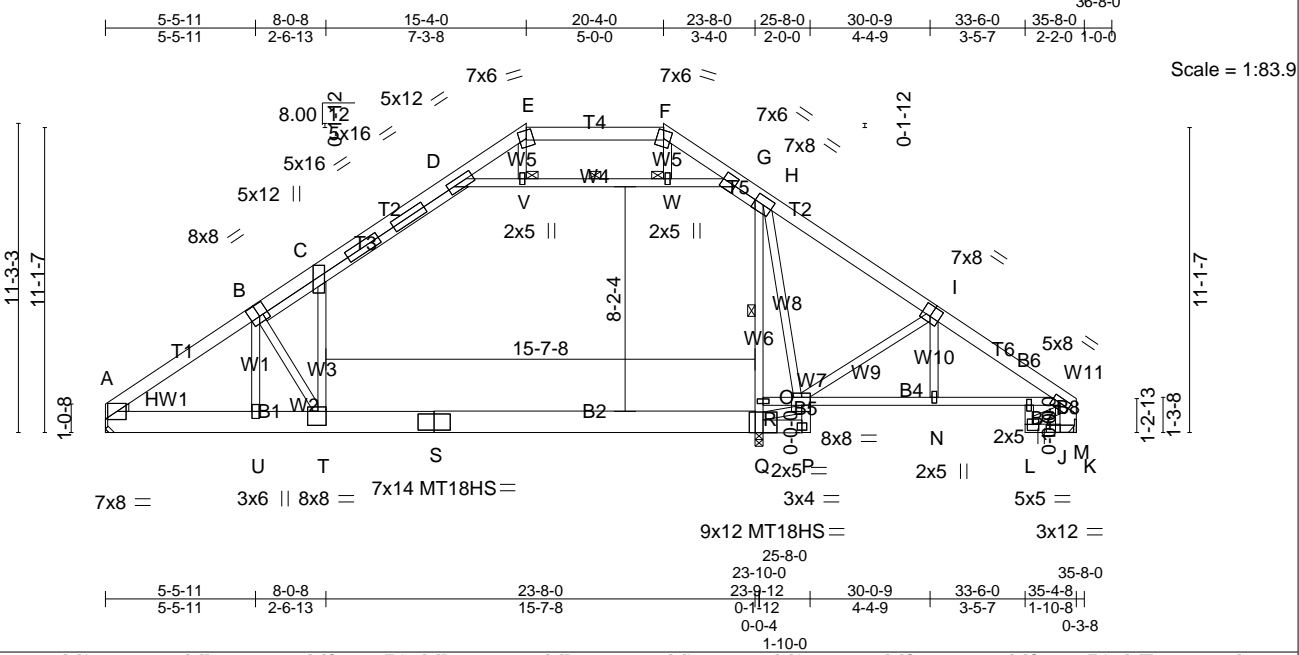


Plate Offsets (X,Y)-- [A:0-8-9,0-3-6], [A:0-2-8,0-1-11], [B:0-4-0,0-2-12], [C:0-9-6,Edge], [D:0-6-13,0-2-8], [D:0-6-13,0-2-8], [I:0-4-0,0-4-8], [J:0-3-8,0-2-4], [O:0-3-8,0-2-12], [Q:0-6-0,Edge], [T:0-3-8,0-6-0]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.55 Q-T >516 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.96	Vert(CT) -0.80 Q-T >357 180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.08 K n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH	Attic -0.38 Q-T 496 360		Weight: 312 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP SS, T3,T5: 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): E-F.
BOT CHORD 2x4 SP No.2 *Except* B1: 2x10 SP No.1, B2: 2x10 SP 2400F 2.0E, B5: 2x4 SP No.3, B3: 2x6 SP SS B8: 2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3,W4,W6: 2x4 SP No.2	WEBS 1 Row at midpt V-W, H-Q
WEDGE Left: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): V, W
REACTIONS. (lb/size) A=1399/Mechanical, Q=287/0-3-8, K=1280/Mechanical Max Horz A=250(LC 7) Max Uplift A=146(LC 10), Q=221(LC 6), K=132(LC 10) Max Grav A=1799(LC 18), Q=614(LC 19), K=1522(LC 18)	
FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD A-B=2598/267, B-C=2645/224, C-D=1720/303, D-E=389/167, E-F=272/221, F-G=-429/152, G-H=1614/314, H-I=-2262/319, I-J=-2541/283 BOT CHORD A-U=-281/2307, T-U=-276/2317, S-T=-126/1808, Q-S=-126/1808, K-L=-3/40, L-M=0/28, O-R=-18/37, N-O=-180/2090, M-N=-180/2090, J-M=-174/2042, O-P=-812/0, P-Q=-19/36, J-K=-1519/175 WEBS C-T=0/1713, D-V=-1878/325, V-W=-1884/323, G-W=-1877/324, Q-R=-390/690, H-R=-400/671, I-N=0/201, E-V=0/106, F-W=0/100, B-U=-487/139, I-O=-442/188, H-O=-72/486, O-Q=-111/2011, B-T=-1026/312, J-L=-10/19	

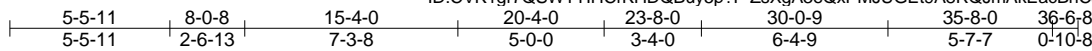
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical 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.
 - 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). C-D, G-H, D-V, V-W, G-W
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. Q-T
 - Bearing at joint(s) Q 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 146 lb uplift at joint A, 221 lb uplift at joint Q and 132 lb uplift at joint K.
 - 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.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20040580	Truss A6	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:39 2020 Page 1

ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-ZsXgA3eQxPMJUJGEt9A8RQJmAkEacBnCsSNwTN?zS7ac



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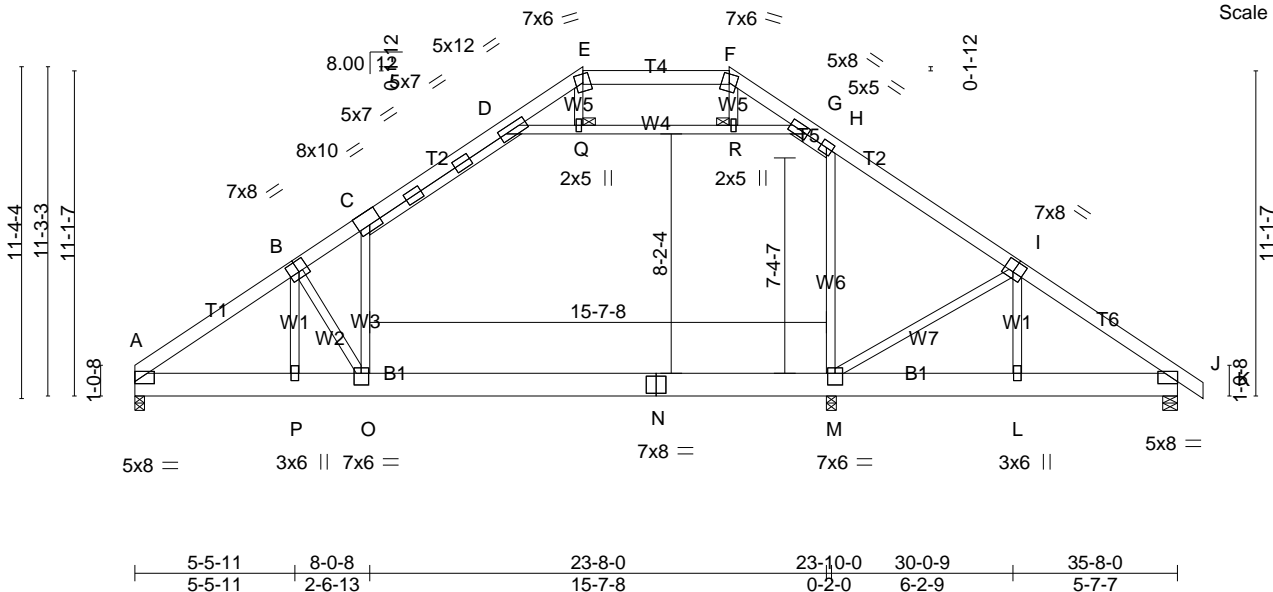


Plate Offsets (X,Y)-- [B:0-4-0,0-4-8], [C:0-5-0,Edge], [I:0-4-0,0-4-8], [M:0-3-0,0-4-12], [O:0-3-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.95	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.44 M-O >651 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.63 M-O >451 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.02 J n/a n/a		
	Code IRC2015/TPI2014		Attic -0.29 M-O 654 360		Weight: 319 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP SS, T3: 2x4 SP SS, T5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); E-F.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 9-10-2 oc bracing.
WEBS 2x4 SP No.3 *Except* W3,W4,W6: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): Q, R

REACTIONS. (lb/size) A=1370/0-4-0, M=435/0-4-0, J=1260/0-6-0
 Max Horz A=-261(LC 6)
 Max Uplift A=-152(LC 10), M=-166(LC 11), J=-140(LC 10)
 Max Grav A=1711(LC 18), M=933(LC 19), J=1340(LC 18)

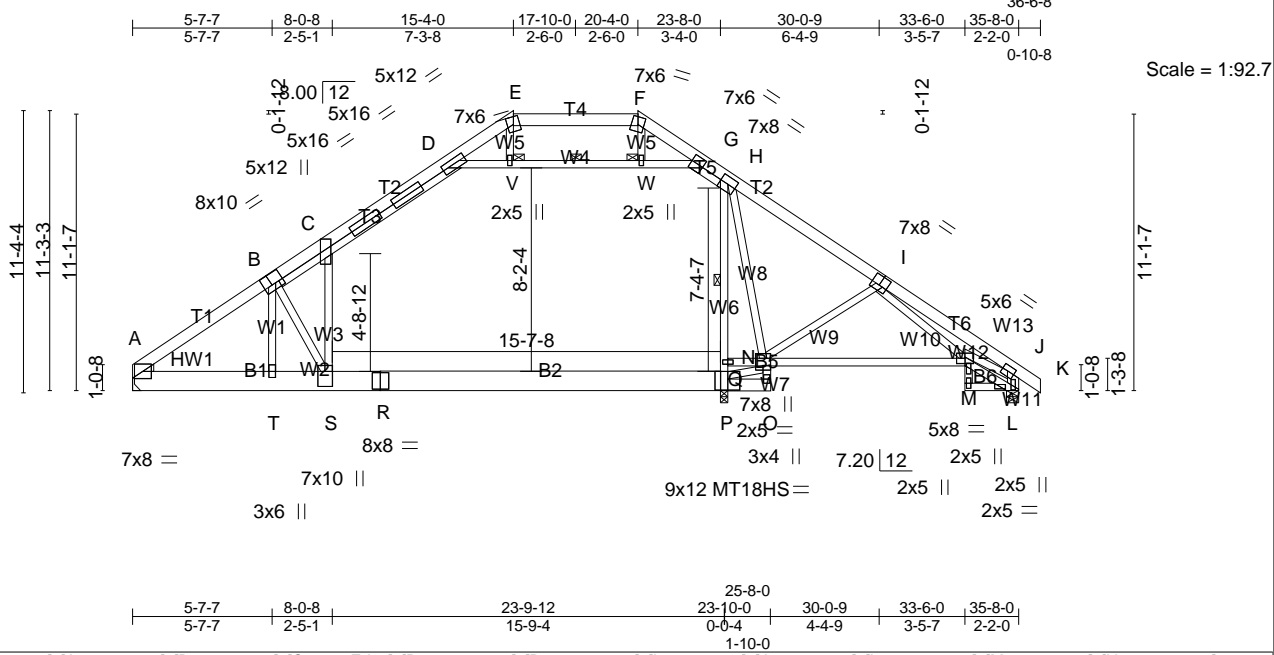
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-2421/267, B-C=-2369/241, C-D=-1658/314, D-E=-421/147, E-F=-284/164, F-G=-434/144, G-H=-1499/321, H-I=-2082/318, I-J=-1713/276, J-K=0/29
 BOT CHORD A-P=-260/2146, O-P=-260/2146, N-O=-135/1704, M-N=-135/1704, L-M=-150/1397, J-L=-149/1394
 WEBS C-O=0/1278, D-Q=-1700/327, Q-R=-1707/325, G-R=-1702/326, H-M=-141/731, I-L=-649/77, E-Q=0/117, F-R=0/77, B-P=-270/189, I-M=-185/448, B-O=-865/295

- 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) Ceiling dead load (5.0 psf) on member(s). C-D, G-H, D-Q, Q-R, G-R
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. M-O
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint A, 166 lb uplift at joint M and 140 lb uplift at joint J.
 - 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.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20040580	Truss A6A	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-1352OPf2ijUA5Pp4jtgyXJNDetowJB?h0g0vRzS7ab
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.55	P-S	>518	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.80	P-S	>357	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.09	L	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MSH	Attic	-0.38	P-S	497		
								Weight: 320 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 T2: 2x6 SP SS, T5: 2x4 SP No.2, T3: 2x4 SP SS
 BOT CHORD 2x4 SP No.2 *Except*
 B1: 2x10 SP No.1, B2: 2x10 SP 2400F 2.0E, B3: 2x6 SP SS
 WEBS 2x4 SP No.3 *Except*
 W3,W4,W6,W11: 2x4 SP No.2, W7: 2x4 SP No.1, W13: 2x6 SP No.2
 WEDGE
 Left: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-F.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt V-W, H-P
 JOINTS 1 Brace at Jt(s): V, W

REACTIONS. (lb/size) A=1387/Mechanical, L=1324/0-6-0, P=350/0-3-8
 Max Horz A=276(LC 9)
 Max Uplift A=-147(LC 10), L=-131(LC 10), P=-201(LC 6)
 Max Grav A=1784(LC 18), L=1523(LC 18), P=680(LC 19)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-2577/268, B-C=-2608/230, C-D=-1689/306, D-E=-394/165, E-F=-280/208, F-G=-437/148, G-H=-1588/316, H-I=-2237/308, I-J=-2899/231, J-K=0/33, J-L=-1346/194
 BOT CHORD A-T=-246/2303, S-T=-243/2307, R-S=-134/1789, P-R=-134/1789, N-Q=-15/41, M-N=-172/2091, N-O=-837/0, O-P=-150/0, L-M=-358/20
 WEBS C-S=0/1712, D-V=-1828/325, V-W=-1834/323, G-W=-1827/324, P-Q=-436/637, H-Q=-475/595, B-T=-452/184, I-N=-427/219, H-N=-14/554, I-M=0/461, N-P=-79/2089, J-M=-117/2719, B-S=-1077/323, E-V=0/102, F-W=0/102

- NOTES-**
- 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 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.
 - 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) C-D, G-H, D-V, V-W, G-W
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. P-S
 - Bearing at joint(s) L, P 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 147 lb uplift at joint A, 131 lb uplift at joint L and 201 lb uplift at joint P.
 - 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.
 - Attic room checked for L/360 deflection.

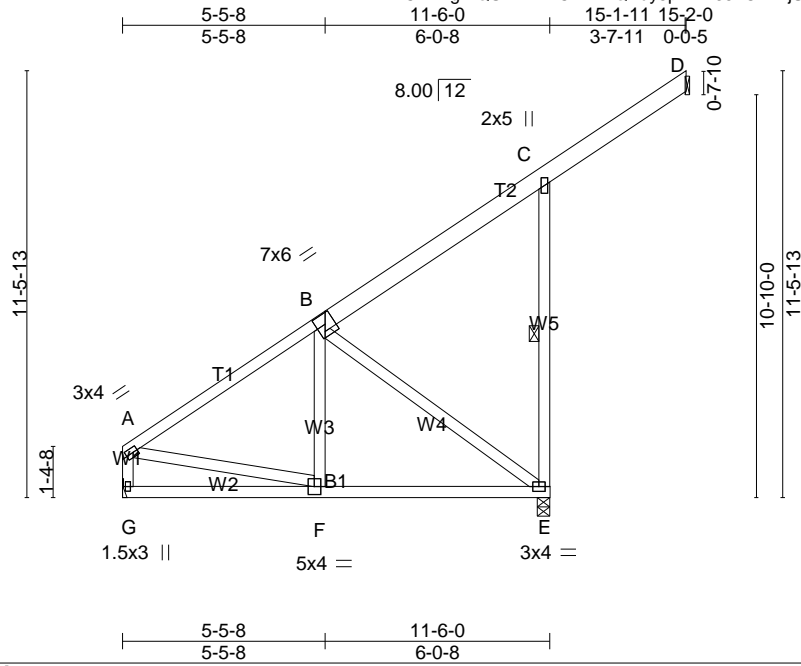
LOAD CASE(S) Standard

Job 20040580	Truss A7	Truss Type MONOPITCH	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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Scale = 1:62.0

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.04 E-F >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.08 E-F >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT) -0.01 D n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH		Weight: 93 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T1: 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 9-0-8 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt C-E

REACTIONS. (lb/size) D=75/Mechanical, E=610/0-4-0, G=436/Mechanical
 Max Horz G=366(LC 10)
 Max Uplift D=57(LC 10), E=329(LC 10)
 Max Grav D=82(LC 17), E=663(LC 17), G=436(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=443/0, B-C=220/190, C-D=90/42, C-E=344/226, A-G=393/0
 BOT CHORD F-G=-422/394, E-F=-171/368
 WEBS B-E=-467/220, B-F=0/221, A-F=-22/291

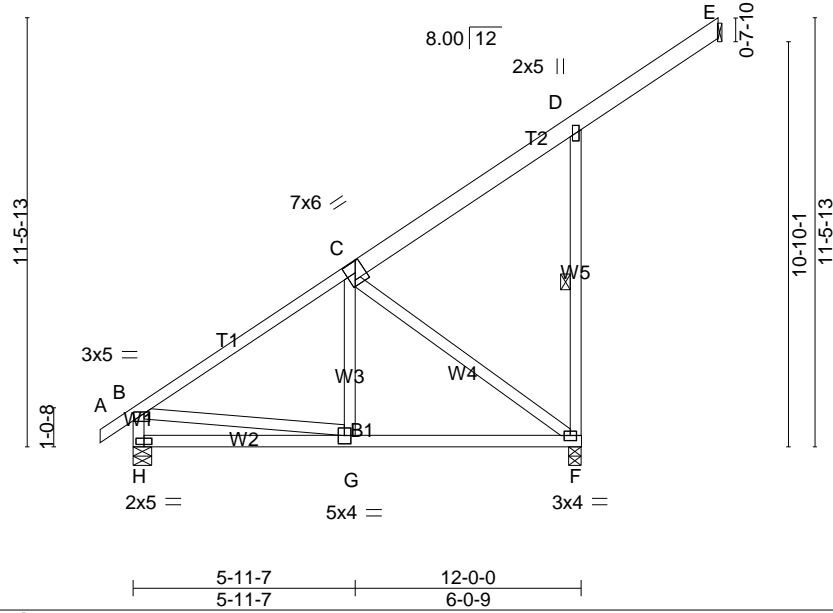
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions 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 57 lb uplift at joint D and 329 lb uplift at joint 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/TP1 1.

LOAD CASE(S) Standard

Job 20040580	Truss A8	Truss Type MONOPITCH	Qty 3	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:41 2020 Page 1

ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-VFQbkfgT0c1jZOGHbBvVkreg2J4fn98wgPaSuzS7aa
 -0-10-8 5-11-7 12-0-0 15-7-12 15-8-0
 0-10-8 5-11-7 6-0-9 3-7-12 0-0-4



Scale = 1:61.7

Plate Offsets (X,Y)-- [B:0-3-4,0-0-8], [C:0-3-0,0-3-4]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.04 F-G >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.07 F-G >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) -0.01 E n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH		Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T1: 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 8-6-4 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt D-F

REACTIONS. (lb/size) E=75/Mechanical, F=627/0-4-0, H=520/0-6-0
 Max Horz H=406(LC 10)
 Max Uplift E=57(LC 10), F=325(LC 10)
 Max Grav E=82(LC 17), F=677(LC 17), H=520(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/34, B-C=-488/0, C-D=-219/189, D-E=-91/42, D-F=-344/224, B-H=-472/0
 BOT CHORD G-H=-477/505, F-G=-164/383
 WEBS C-F=-486/211, C-G=0/251, B-G=-118/318

- 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 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/TP1 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 57 lb uplift at joint E and 325 lb uplift at joint F.
 - 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/TP1 1.

LOAD CASE(S) Standard

Job 20040580	Truss A9	Truss Type Monopitch	Qty 3	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-_RDop4glEKKtLzSqli81yOnsSdJJOEil8K97_KzS7aZ
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:42 2020 Page 1

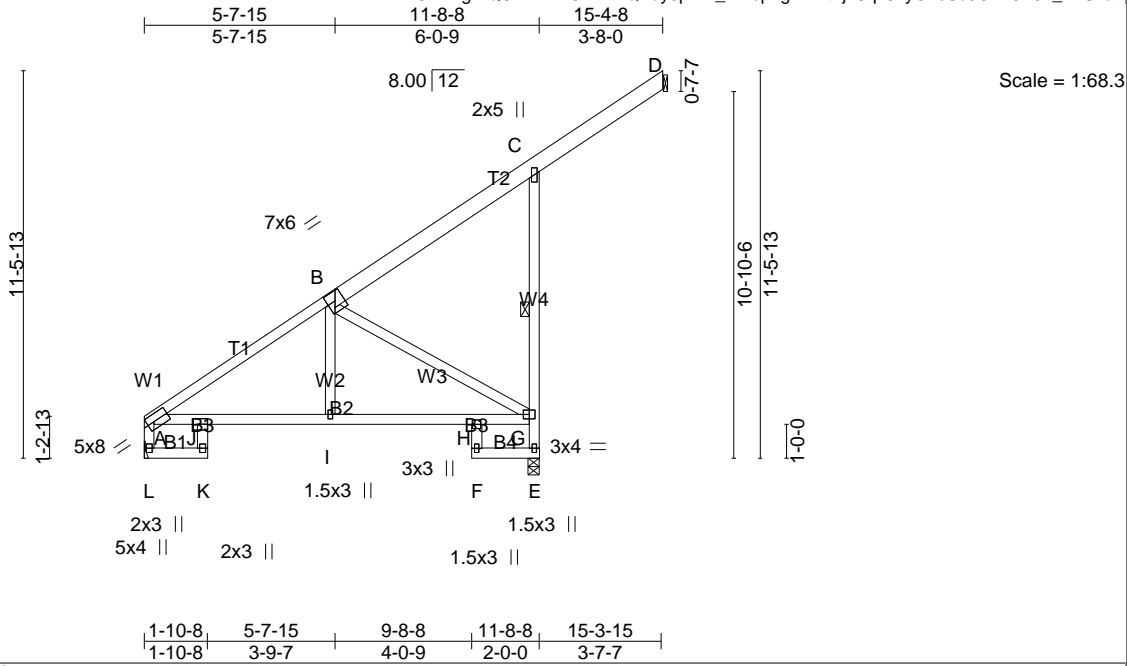


Plate Offsets (X,Y)-- [B:0-3-0,0-3-4], [J:0-2-0,0-1-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) 0.09 I-J >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.08 H-I >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT) -0.06 D n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH			
				Weight: 91 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T1: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B3: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt C-E

REACTIONS. (lb/size) D=75/Mechanical, E=620/0-4-0, L=444/Mechanical
 Max Horz L=375(LC 7)
 Max Uplift D=64(LC 10), E=258(LC 10)
 Max Grav D=79(LC 17), E=696(LC 17), L=453(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-574/19, B-C=-211/155, C-D=-92/49, E-G=-671/279, C-G=-359/179, A-L=-430/36
 BOT CHORD K-L=-208/169, J-K=-66/63, A-J=0/345, I-J=-184/505, H-I=-185/497, G-H=-218/504, F-H=-5/22, E-F=-83/84
 WEBS B-I=-1/272, B-G=-542/254

- 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 64 lb uplift at joint D and 258 lb uplift at joint 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.

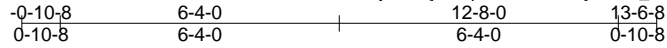
LOAD CASE(S) Standard

Job 20040580	Truss B1	Truss Type Common Supported Gable	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:42 2020 Page 1

ID:Ujj5valhyQwqiNdVML5MY0ynK3e-_RDop4glEKktLjzSqli81yOsMSisOKj18K97_KzS7az



3x6 =

Scale = 1:52.3

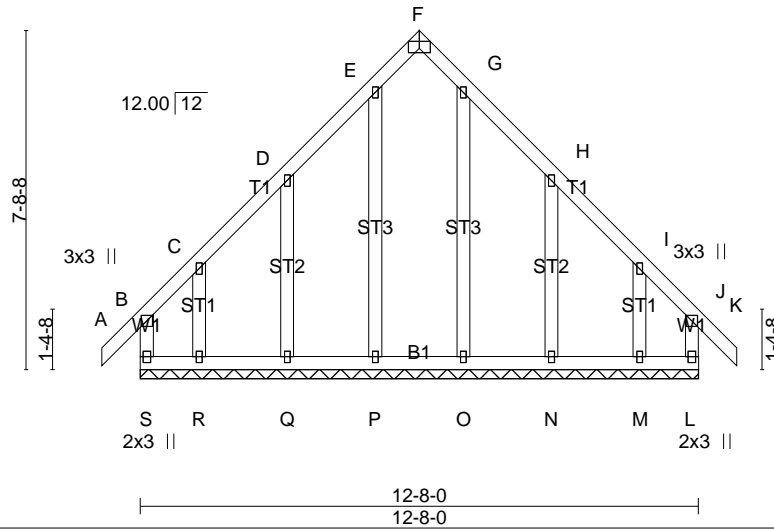


Plate Offsets (X,Y)-- [F:0-3-0,Edge]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TP12014	CSI. TC 0.22 BC 0.12 WB 0.11 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 K n/r 120 Vert(CT) -0.00 K n/r 90 Horz(CT) 0.00 L n/a n/a	PLATES MT20 GRIP 244/190 Weight: 90 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
OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) S=125/12-8-0, L=125/12-8-0, P=157/12-8-0, Q=168/12-8-0, R=106/12-8-0, O=157/12-8-0, N=168/12-8-0, M=106/12-8-0
Max Horz S=221(LC 9)
Max Uplift S=133(LC 6), L=119(LC 7), Q=131(LC 10), R=222(LC 10), N=133(LC 11), M=218(LC 11)
Max Grav S=221(LC 18), L=210(LC 17), P=182(LC 20), Q=180(LC 17), R=235(LC 8), O=180(LC 19), N=182(LC 18), M=225(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-S=-167/98, A-B=0/43, B-C=-167/149, C-D=-89/89, D-E=-140/203, E-F=-110/136, F-G=-110/136, G-H=-140/203, H-I=-80/81, I-J=-160/137, J-K=0/43, J-L=-159/88
BOT CHORD R-S=-114/144, Q-R=-114/144, P-Q=-114/144, O-P=-114/144, N-O=-114/144, M-N=-114/144, L-M=-114/144
WEBS E-P=-142/10, D-Q=-202/183, C-R=-180/164, G-O=-139/2, H-N=-202/183, I-M=-180/162

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) 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 2-0-0 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 133 lb uplift at joint S, 119 lb uplift at joint L, 131 lb uplift at joint Q, 222 lb uplift at joint R, 133 lb uplift at joint N and 218 lb uplift at joint M.
- 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

Job 20040580	Truss B1A	Truss Type GABLE	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:43 2020 Page 1
 ID:Uji5valhyQwqjNdVML5MY0ynK3e-SenA0Qhx?eskytYf00DNa9xzws_s7meRN_uhWrmzS7aY

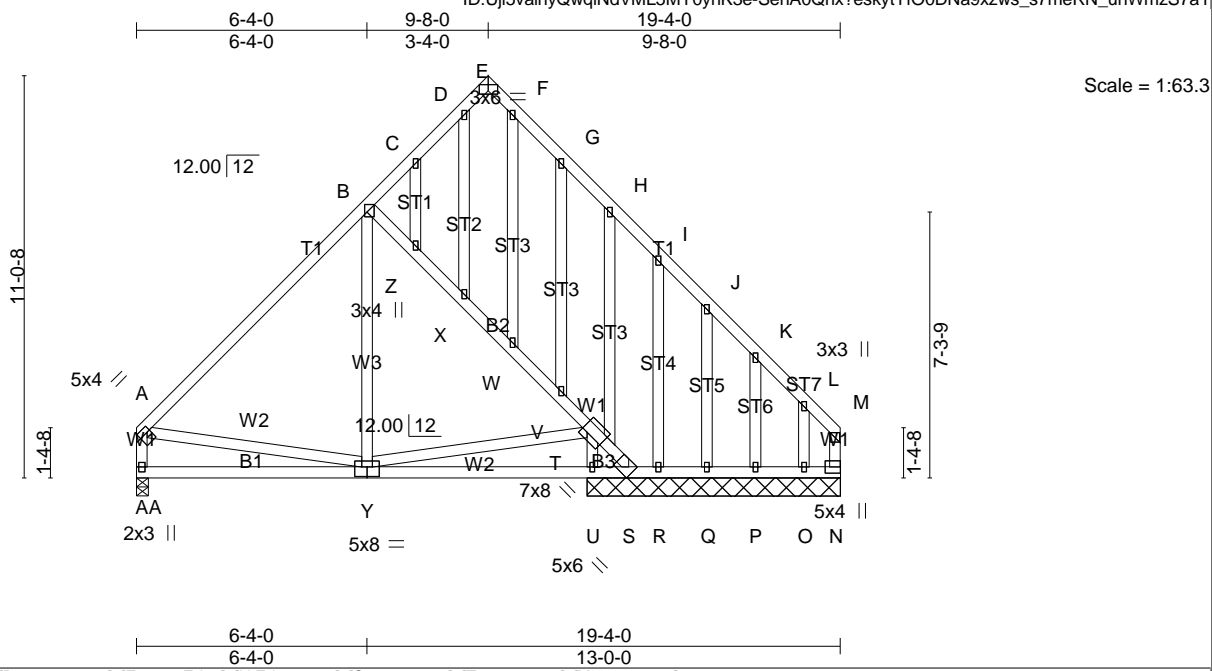


Plate Offsets (X,Y)-- [A:0-1-0,0-1-12], [B:0-2-8,0-0-12], [E:0-3-0,Edge], [N:Edge,0-3-8], [S:0-2-8,0-1-7], [T:0-2-0,0-2-0], [Y:0-4-0,0-3-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.03 Y-AA >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(CT) -0.07 Y-AA >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01 N n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH			
				Weight: 181 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 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): X, V

REACTIONS. (lb/size) AA=571/0-4-0, N=250/6-11-8, S=85/6-11-8, U=638/6-11-8, R=128/6-11-8, Q=95/6-11-8, P=130/6-11-8, O=59/6-11-8
 Max Horz AA=278(LC 6)
 Max Uplift N=137(LC 9), S=221(LC 10), R=22(LC 11), Q=99(LC 11), P=9(LC 11), O=561(LC 11)
 Max Grav AA=571(LC 1), N=717(LC 11), U=665(LC 3), R=129(LC 18), Q=119(LC 18), P=130(LC 1), O=200(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=557/0, B-C=211/30, C-D=-180/70, D-E=-112/65, E-F=94/44, F-G=-160/28, G-H=-151/1, H-I=-172/0, I-J=-199/29, J-K=-257/91,
 K-L=-319/143, L-M=-528/276, A-AA=515/5, M-N=-460/229
 BOT CHORD Y-AA=-288/345, U-Y=-47/185, S-U=-47/185, R-S=-179/301, Q-R=-179/301, P-Q=-179/301, O-P=-179/301, N-O=-179/301, B-Z=-378/194,
 X-Z=443/224, W-X=430/227, V-W=422/226, T-V=-484/219, S-T=-252/295
 WEBS B-Y=0/198, A-Y=-4/272, T-U=-499/23, T-Y=-42/236, D-X=-17/59, C-Z=-62/61, F-W=0/69, G-V=-94/28, H-T=-158/136, I-R=-78/56, J-Q=-115/100,
 K-P=-100/72, L-O=-214/285

- 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 studs spaced at 1-4-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint N, 221 lb uplift at joint S, 22 lb uplift at joint R, 99 lb uplift at joint Q, 9 lb uplift at joint P and 561 lb uplift at joint O.
 - 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

Job 20040580	Truss B2	Truss Type Roof Special Girder	Qty 1	Ply 3	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 ID:CVK1gr7QSWTTIHCrKHDQBbuy5p?F-KP0hsokR2sMARUrQdriJk?5eMTF3QR1IcsufXzS7aU
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:47 2020 Page 1

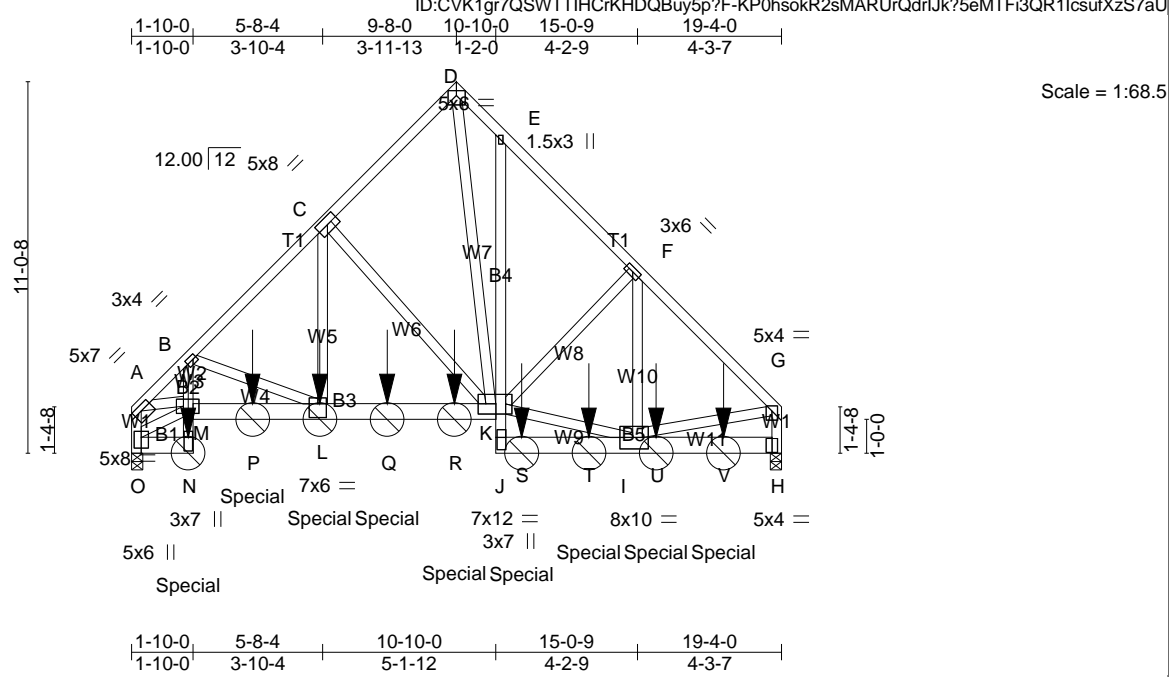


Plate Offsets (X,Y)-- [A:0-3-0,0-1-12], [B:0-1-4,0-1-8], [D:0-3-0,0-1-12], [G:0-2-0,0-1-12], [I:0-4-8,0-4-0], [J:0-4-4,0-0-8], [K:0-2-12,0-3-8], [L:0-3-0,0-4-12], [M:0-5-8,0-2-8], [N:0-4-12,0-1-8], [O:0-3-12,0-2-8]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2x6 SP No.2 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.52 BC 0.79 WB 0.78 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) -0.13 K-L >999 240 Vert(CT) -0.23 K-L >998 180 Horz(CT) 0.09 H n/a n/a	PLATES MT20 GRIP 244/190 Weight: 526 lb FT = 20%
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LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B2,B4: 2x4 SP No.3, B3: 2x6 SP No.1 WEBS 2x4 SP No.3 *Except* W7,W2: 2x4 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, Except: 6-0-0 oc bracing: I-J.
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REACTIONS. (lb/size) H=6338/0-4-0, O=7259/0-4-0
 Max Horz O=-275(LC 4)
 Max Uplift H=-312(LC 8), O=-498(LC 9)
 Max Grav H=7192(LC 2), O=8403(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-10833/730, B-C=-9268/592, C-D=-5396/460, D-E=-6791/600, E-F=-7070/539, F-G=-7735/468, A-O=-8139/547, G-H=-6753/398
 BOT CHORD N-O=-53/441, M-N=-101/1726, B-M=-230/1578, M-P=-665/7798, L-P=-665/7798, L-Q=-433/6516, Q-R=-433/6516, K-R=-433/6516,
 J-K=-99/1814, E-K=-162/307, J-S=-19/27, S-T=-19/27, I-T=-19/27, I-U=-32/340, U-V=-32/340, H-V=-32/340
 WEBS B-L=-1388/267, C-L=-312/5445, C-K=-3963/421, D-K=-700/8333, I-K=-249/5655, F-K=-818/184, F-I=-90/871, G-I=-270/5227, M-O=-555/280,
 A-M=-501/7500

- 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.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc, 2x4 - 2 rows staggered at 0-4-0 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
 - 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, O 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 312 lb uplift at joint H and 498 lb uplift at joint O.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1743 lb down and 108 lb up at 1-8-4, 1732 lb down and 107 lb up at 3-7-4, 1732 lb down and 107 lb up at 5-7-4, 1732 lb down and 107 lb up at 7-7-4, 1732 lb down and 107 lb up at 9-7-4, 1743 lb down and 108 lb up at 11-7-4, 1743 lb down and 108 lb up at 13-7-4, and 1743 lb down and 108 lb up at 15-7-4, and 416 lb down at 17-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

Job 20040580	Truss B2	Truss Type Roof Special Girder	Qty 1	Ply 3	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

Job Reference (optional)
8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:47 2020 Page 2
ID:CVK1gr7QSWTTIHCrKHDQBbuy5p?F-KP0hsokR2sMARUrQdriJK?5eMTF3QR1IcsufXzS7aU

LOAD CASE(S) Standard

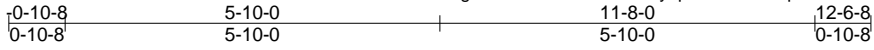
Concentrated Loads (lb)

Vert: N=-1462(F) L=-1452(F) P=-1452(F) Q=-1452(F) R=-1452(F) S=-1462(F) T=-1462(F) U=-1462(F) V=-416(F)

Job 20040580	Truss C1	Truss Type GABLE	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-oba338l3pAU13eQcBZpYHDevDtl2o30AXGcSC_zs7aT 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:48 2020 Page 1



3x6 =

Scale = 1:35.8

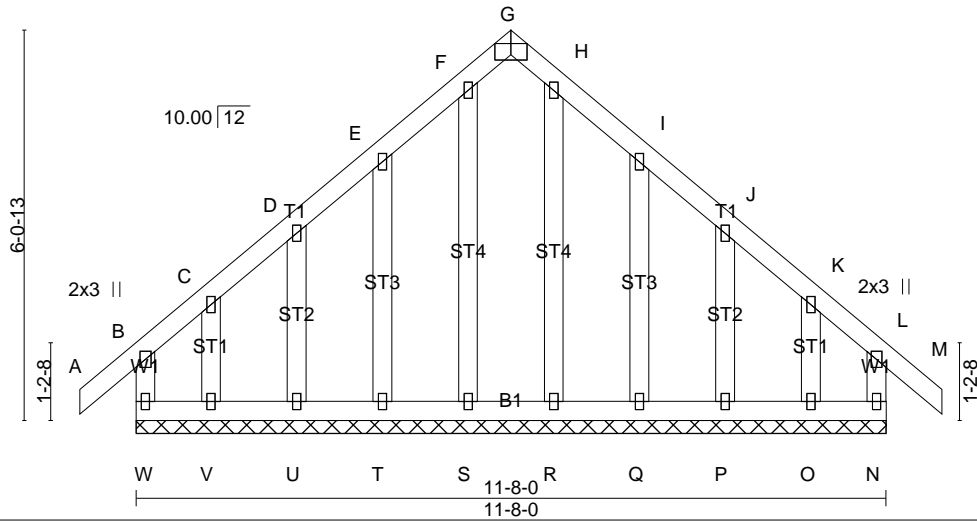


Plate Offsets (X,Y)-- [G:0-3-0,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.00 M n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.00 M n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 N n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R			
				Weight: 86 lb	FT = 20%

LUMBER-	BRACING-
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) W=119/11-8-0, N=119/11-8-0, S=111/11-8-0, T=105/11-8-0, U=112/11-8-0, V=69/11-8-0, R=111/11-8-0, Q=105/11-8-0, P=112/11-8-0, O=69/11-8-0
 Max Horz W=-174(LC 8)
 Max Uplift W=-110(LC 6), N=-93(LC 7), T=-81(LC 10), U=-41(LC 10), V=-130(LC 10), Q=-81(LC 11), P=-42(LC 11), O=-126(LC 11)
 Max Grav W=183(LC 18), N=168(LC 17), S=135(LC 20), T=120(LC 17), U=113(LC 21), V=173(LC 8), R=132(LC 19), Q=121(LC 18), P=113(LC 22), O=160(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD B-W=-139/79, A-B=0/39, B-C=-110/106, C-D=-67/77, D-E=-81/129, E-F=-140/203, F-G=-105/140, G-H=-105/140, H-I=-140/203, I-J=-81/129, J-K=-55/74, K-L=-94/91, L-M=0/39, L-N=-128/71
 BOT CHORD V-W=88/91, U-V=-88/91, T-U=-88/91, S-T=-88/91, R-S=-88/91, Q-R=-88/91, P-Q=-88/91, O-P=-88/91, N-O=-88/91
 WEBS F-S=-109/27, E-T=-119/102, D-U=-94/70, C-V=-116/96, H-R=-109/27, I-Q=-119/102, J-P=-94/70, K-O=-116/94

- 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 110 lb uplift at joint W, 93 lb uplift at joint T, 41 lb uplift at joint U, 130 lb uplift at joint V, 81 lb uplift at joint Q, 42 lb uplift at joint P and 126 lb uplift at joint 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

Job 20040580	Truss C2	Truss Type COMMON	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:48 2020 Page 1
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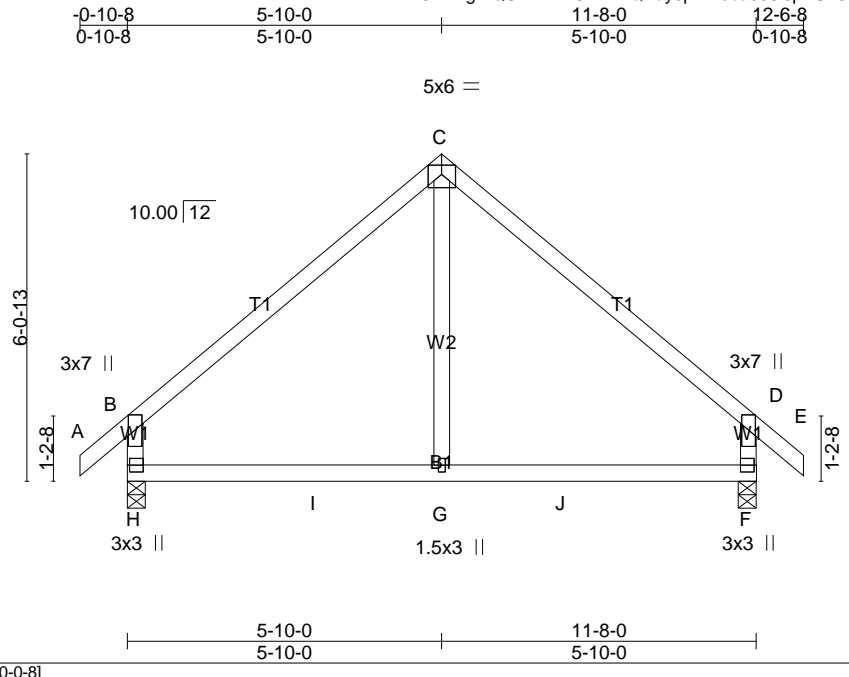


Plate Offsets (X,Y)-- [F:0-1-8,0-0-0], [H:0-1-8,0-0-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) -0.03 F-G >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0.06 F-G >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 F n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR		Weight: 54 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) H=516/0-4-0, F=516/0-4-0
 Max Horz H=-174(LC 8)
 Max Uplift H=-59(LC 10), F=-59(LC 11)
 Max Grav H=530(LC 17), F=530(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/39, B-C=-492/124, C-D=-492/124, D-E=0/39, B-H=-464/182, D-F=-464/182
 BOT CHORD H-I=-8/331, G-I=-8/331, G-J=-8/331, F-J=-8/331
 WEBS C-G=0/259

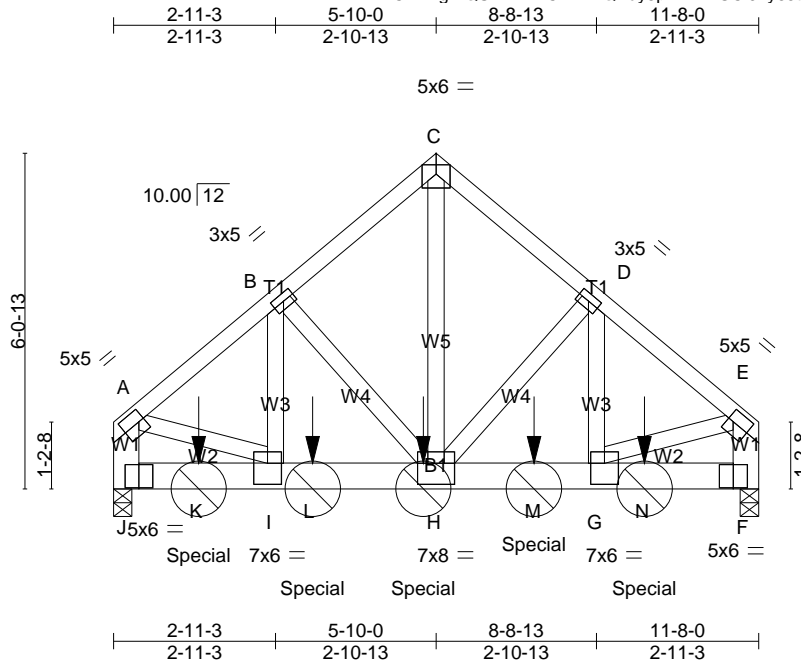
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end 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 59 lb uplift at joint H and 59 lb uplift at joint F.
 - 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

Job 20040580	Truss C3	Truss Type Common Girder	Qty 1	Ply 2	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:51 2020 Page 1



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

Plate Offsets (X,Y)-- [A:0-1-4,0-2-8], [E:0-1-4,0-2-8], [G:0-3-0,0-4-8], [H:0-4-0,0-4-8], [I:0-3-0,0-4-8]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSL TC 0.31 BC 0.73 WB 0.90 Matrix-MSH	DEFL in (loc) l/defl L/d Vert(LL) -0.04 G-H >999 240 Vert(CT) -0.06 G-H >999 180 Horz(CT) 0.01 F n/a n/a	PLATES MT20 GRIP 244/190 Weight: 179 lb FT = 20%
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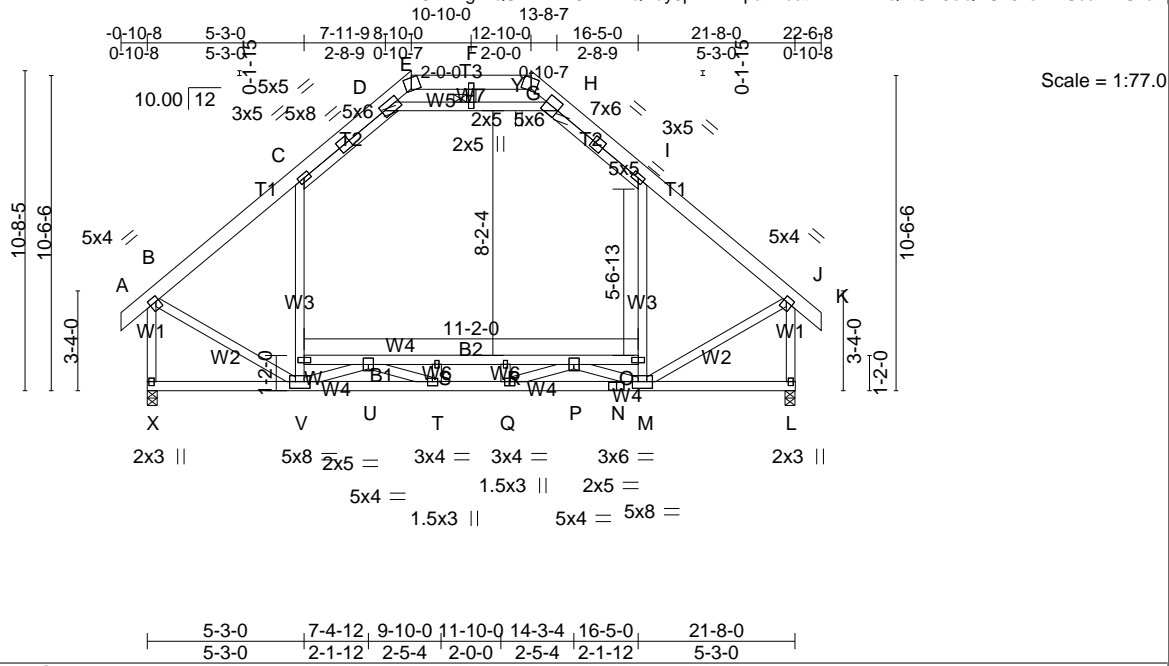
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 *Except* W1: 2x6 SP No.2	BRACING- TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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REACTIONS. (lb/size) J=4441/0-4-0, F=3815/0-4-0
Max Horz J=-151(LC 4)
Max Uplift J=-525(LC 8), F=-430(LC 9)
Max Grav J=5297(LC 2), F=4521(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-4623/477, B-C=-3548/419, C-D=-3549/419, D-E=-4475/454, A-J=-4072/410, E-F=-4013/397
BOT CHORD J-K=-194/634, I-K=-194/634, I-L=-371/3499, H-L=-371/3499, H-M=-303/3386, G-M=-303/3386, G-N=-52/390, F-N=-52/390
WEBS C-H=-458/4307, D-H=-1017/193, D-G=-135/1269, B-H=-1186/219, B-I=-168/1490, A-I=-275/3081, E-G=-285/3187

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 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
 - 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) J, 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 525 lb uplift at joint J and 430 lb uplift at joint 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2301 lb down and 256 lb up at 1-6-8, 1690 lb down and 166 lb up at 3-7-4, 1690 lb down and 166 lb up at 5-7-4, and 1676 lb down and 167 lb up at 7-7-4, and 1676 lb down and 167 lb up at 9-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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-E=-60, F-J=-20
Concentrated Loads (lb)
Vert: H=-1379(F) K=-1867(F) L=-1379(F) M=-1367(F) N=-1367(F)



Scale = 1:77.0

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL) 0.17	V >999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.25	R-S >999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.04	L n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH	Attic -0.10	O-W 1336	360		
						Weight: 200 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-13 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.); E-G.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.3 *Except* W3,W5: 2x4 SP No.2	3-11-0 oc bracing: P-U 6-0-0 oc bracing: U-W, O-P
	JOINTS 1 Brace at Jt(s): U, P, Y

REACTIONS. (lb/size) X=1088/0-4-0, L=1088/0-4-0
 Max Horz X=-307(LC 8)
 Max Grav X=1315(LC 2), L=1315(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/39, B-C=-1069/110, C-D=777/208, D-E=-93/482, E-F=-94/669, F-G=-94/669, G-H=-93/482, H-I=-777/208, I-J=-1069/110, J-K=0/39, B-X=-1275/104, J-L=-1275/104
 BOT CHORD V-X=-295/307, T-V=0/1926, Q-T=0/2600, N-Q=0/1899, M-N=0/1899, L-M=-39/41, U-W=-141/163, S-U=-1975/0, R-S=-1975/0, P-R=-1975/0, O-P=-148/170
 WEBS V-W=-69/279, C-W=-42/390, M-O=-69/279, I-O=-42/390, D-Y=-1325/341, H-Y=-1325/341, B-V=-1/880, J-M=-2/881, Q-R=-233/42, S-T=-231/39, U-V=-1416/0, M-P=-1416/0, P-Q=0/750, F-Y=0/88, T-U=0/750

- 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.
 - Ceiling dead load (5.0 psf) on member(s). C-D, H-I, D-Y, H-Y
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. U-W, S-U, R-S, P-R, O-P
 - 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.
 - Attic room checked for L/360 deflection.

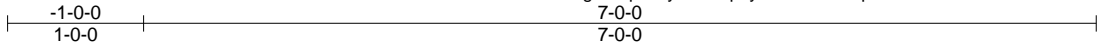
LOAD CASE(S) Standard

Job 20040580	Truss E1	Truss Type GABLE	Qty 1	Ply 1	288 NC2015
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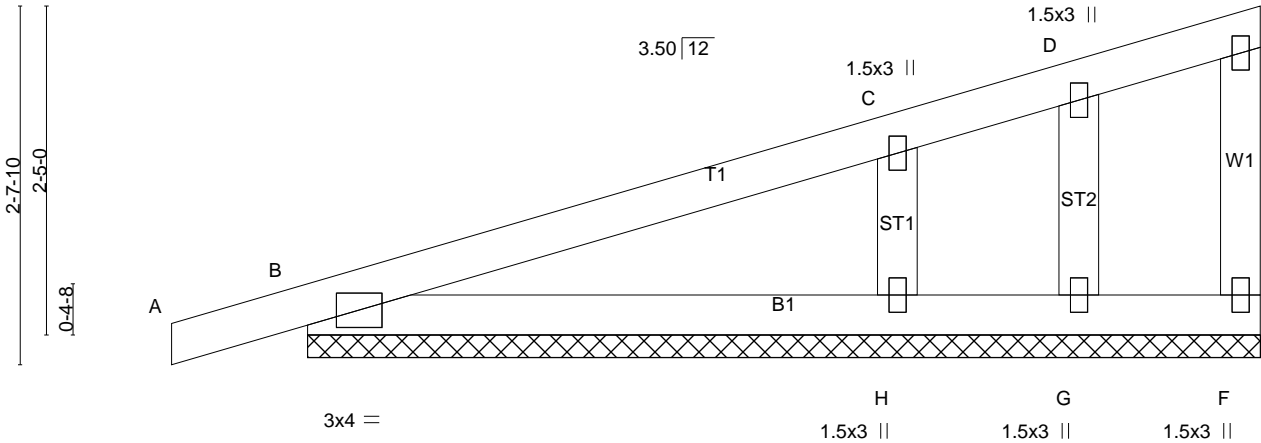
UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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Scale = 1:16.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) -0.00 A n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) 0.01 A n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) -0.00 F n/a n/a		
	Code IRC2015/TPI2014			Weight: 29 lb	FT = 20%

LUMBER-	BRACING-
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) F=67/7-0-0, B=209/7-0-0, G=-36/7-0-0, H=368/7-0-0
 Max Horz B=90(LC 7)
 Max Uplift F=-9(LC 10), B=-60(LC 6), G=-36(LC 1), H=-80(LC 10)
 Max Grav F=67(LC 1), B=209(LC 1), G=6(LC 10), H=368(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/13, B-C=-69/38, C-D=-53/29, D-E=-35/32, E-F=-46/30
 BOT CHORD B-H=-34/38, G-H=-34/38, F-G=-34/38
 WEBS D-G=-6/21, C-H=-254/187

- 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 1-4-0 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 9 lb uplift at joint F, 60 lb uplift at joint B, 36 lb uplift at joint G and 80 lb uplift at joint H.
 - 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.

LOAD CASE(S) Standard

Job 20040580	Truss E2	Truss Type Monopitch	Qty 9	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
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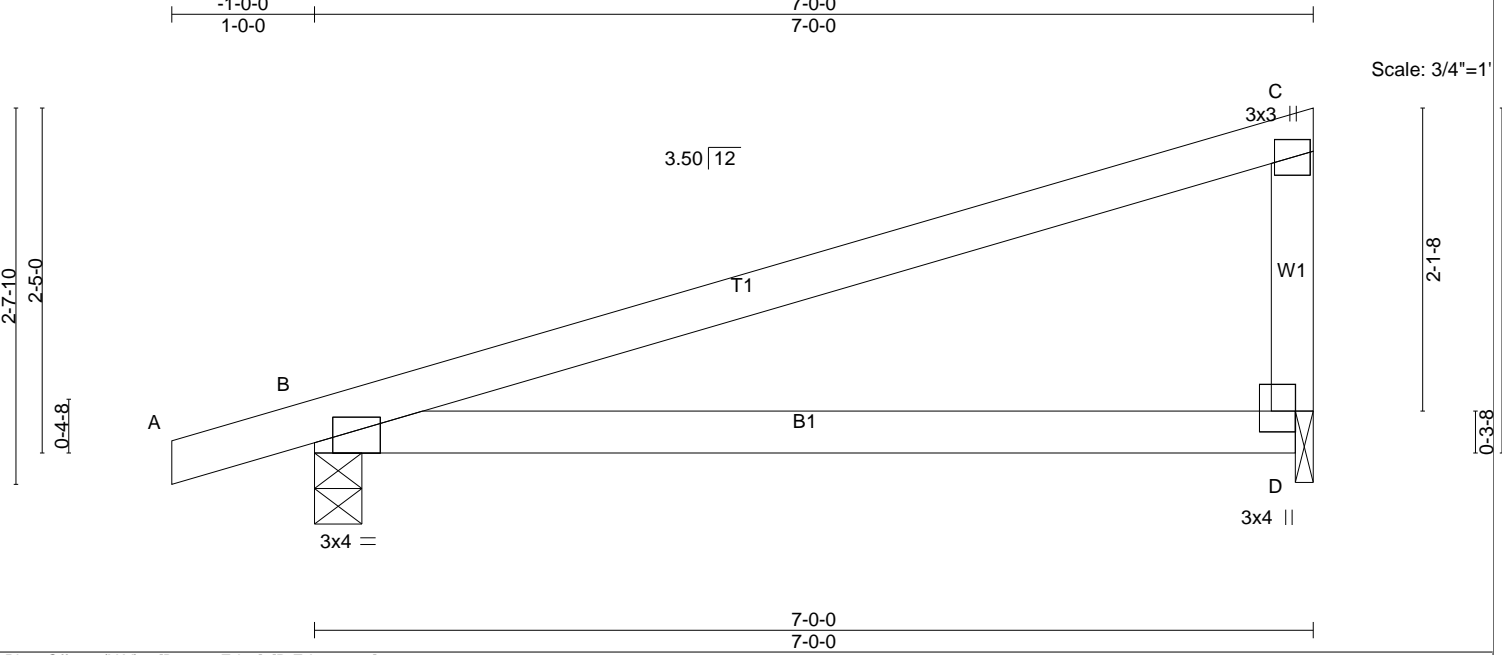


Plate Offsets (X,Y)-- [B:0-1-9,Edge], [D:Edge,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.07 D-G >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.15 D-G >532 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.01 B n/a n/a		
	Code IRC2015/TPI2014			Weight: 25 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=339/0-4-0, D=270/0-1-8
 Max Horz B=91(LC 9)
 Max Uplift B=87(LC 6), D=55(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/17, B-C=-147/50, C-D=-170/117
 BOT CHORD B-D=-22/107

- NOTES-**
- 1) 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
 - 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 87 lb uplift at joint B and 55 lb uplift at joint 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 20040580	Truss H1	Truss Type GABLE	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber ID:jLBNAQim4pHhQdXFHqj1lzX60g-dlxKKBpqP0FAnZumXqwyXUut8HnmCmC3vC3mPdZS7aN 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:54 2020 Page 1

0-10-8 14-8-0 29-4-0 30-2-8
0-10-8 14-8-0 14-8-0 0-10-8

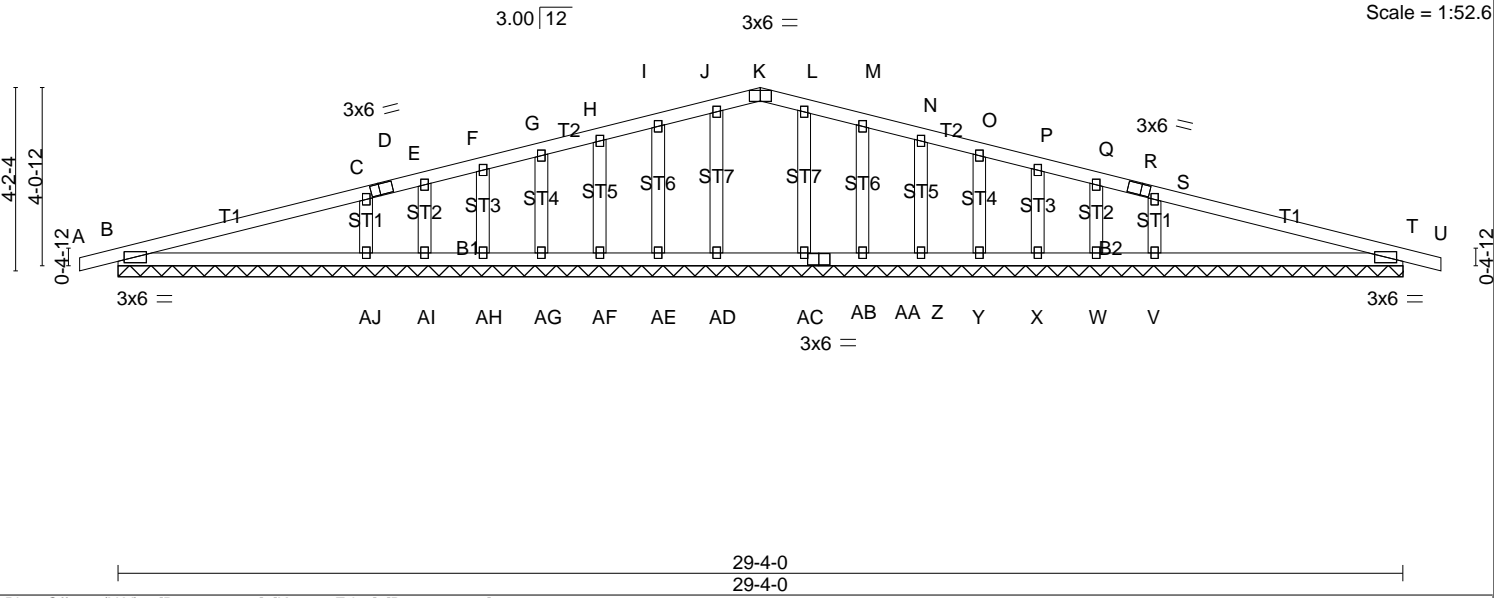


Plate Offsets (X,Y)-- [D:0-2-6,0-1-8], [K:0-3-0,Edge], [R:0-2-6,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) 0.01 U n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) 0.03 U n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 T n/a n/a		
	Code IRC2015/TP12014				Weight: 138 lb FT = 20%

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

REACTIONS. (lb/size) B=241/29-4-0, AD=141/29-4-0, AE=95/29-4-0, AF=111/29-4-0, AG=94/29-4-0, AH=169/29-4-0, AI=171/29-4-0, AJ=547/29-4-0, AC=141/29-4-0, AA=95/29-4-0, Z=111/29-4-0, Y=94/29-4-0, X=169/29-4-0, W=171/29-4-0, V=547/29-4-0, T=241/29-4-0
Max Horz B=65(LC 10)
Max Uplift B=58(LC 6), AD=3(LC 10), AE=29(LC 6), AF=22(LC 10), AG=22(LC 6), AH=32(LC 10), AI=171(LC 1), AJ=115(LC 10), AA=32(LC 11), Z=21(LC 11), Y=22(LC 7), X=32(LC 11), W=171(LC 1), V=115(LC 11), T=65(LC 7)
Max Grav B=241(LC 1), AD=141(LC 1), AE=98(LC 21), AF=111(LC 1), AG=94(LC 21), AH=169(LC 1), AI=32(LC 10), AJ=547(LC 21), AC=141(LC 1), AA=98(LC 22), Z=111(LC 1), Y=94(LC 22), X=169(LC 1), W=32(LC 11), V=547(LC 22), T=241(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/7, B-C=-76/59, C-D=-55/55, D-E=-50/58, E-F=-18/60, F-G=-27/69, G-H=-31/76, H-I=-36/90, I-J=-41/106, J-K=-47/114, K-L=-47/114, L-M=-41/106, M-N=-36/90, N-O=-31/75, O-P=-27/61, P-Q=-16/43, Q-R=-50/48, R-S=-55/44, S-T=-54/42, T-U=0/7
BOT CHORD B-AJ=-12/54, AI-AJ=-12/54, AH-AI=-12/54, AG-AH=-12/54, AF-AG=-12/54, AE-AF=-12/54, AD-AE=-12/54, AC-AD=-12/54, AB-AC=-12/54, AA-AB=-12/54, Z-AA=-12/54, Y-Z=-12/54, X-Y=-12/54, W-X=-12/54, V-W=-12/54, T-V=-12/54
WEBS J-AD=-105/24, I-AE=-76/51, H-AF=-82/44, G-AG=-75/42, F-AH=-114/60, E-AI=-37/94, C-AJ=-371/185, L-AC=-105/20, M-AA=-76/51, N-Z=-82/44, O-Y=-75/42, P-X=-114/60, Q-W=-37/94, S-V=-371/185

- 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; 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
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 2x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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 58 lb uplift at joint B, 3 lb uplift at joint AD, 29 lb uplift at joint AE, 22 lb uplift at joint AF, 22 lb uplift at joint AG, 32 lb uplift at joint AH, 171 lb uplift at joint AI, 115 lb uplift at joint AJ, 32 lb uplift at joint AA, 21 lb uplift at joint Z, 22 lb uplift at joint Y, 32 lb uplift at joint X, 171 lb uplift at joint W, 115 lb uplift at joint V and 65 lb uplift at joint T.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1.

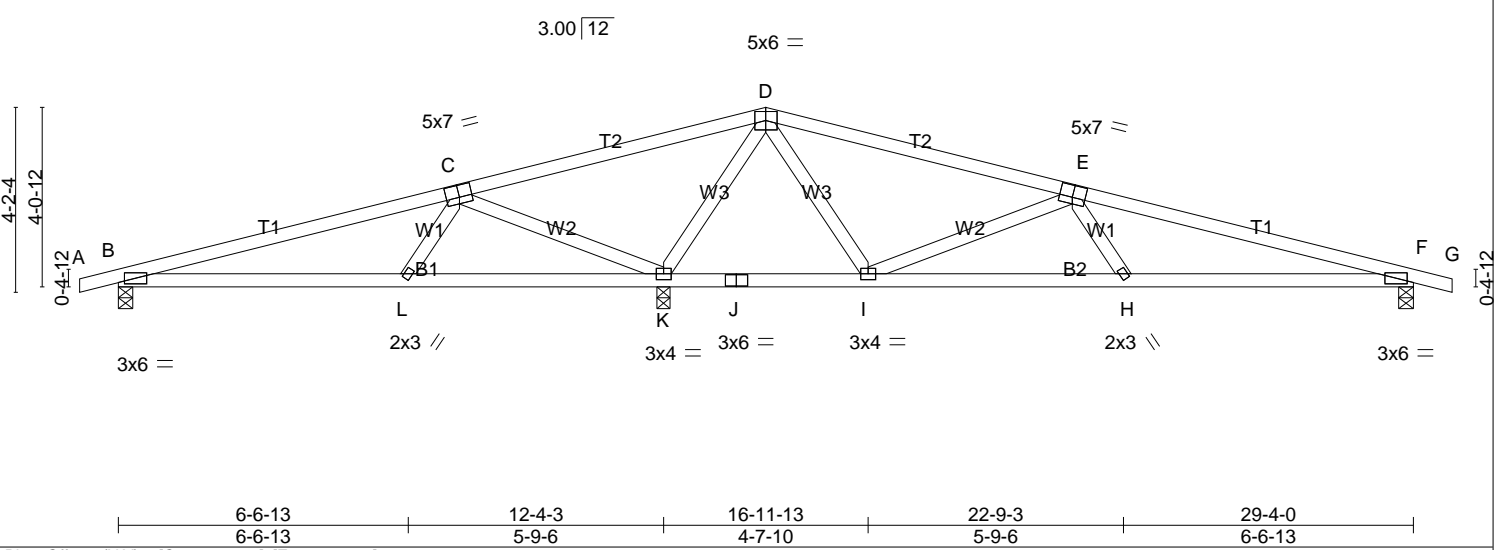
LOAD CASE(S) Standard

Job 20040580	Truss H2	Truss Type COMMON	Qty 4	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:55 2020 Page 1

0-10-8	7-8-11	14-8-0	21-7-5	29-4-0	30-2-8
0-10-8	7-8-11	6-11-5	6-11-5	7-8-11	0-10-8

Scale = 1:52.2



6-6-13	12-4-3	16-11-13	22-9-3	29-4-0
6-6-13	5-9-6	4-7-10	5-9-6	6-6-13

Plate Offsets (X,Y)-- [C:0-3-8,0-3-4], [E:0-3-8,0-3-4]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) -0.07 H-R >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.15 H-R >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.01 F n/a n/a		
	Code IRC2015/TPI2014			Weight: 125 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) B=331/0-4-0, K=1545/0-3-8, F=575/0-4-0
 Max Horz B=65(LC 11)
 Max Uplift B=108(LC 6), K=152(LC 6), F=143(LC 7)
 Max Grav B=396(LC 21), K=1545(LC 1), F=599(LC 22)

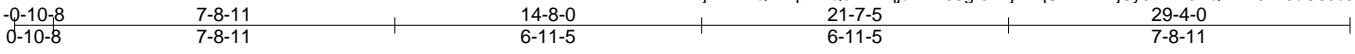
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/13, B-C=458/180, C-D=153/939, D-E=217/103, E-F=1236/279, F-G=0/13
 BOT CHORD B-L=154/415, K-L=246/310, J-K=-226/108, I-J=-226/108, H-I=-238/1061, F-H=-204/1158
 WEBS D-I=-79/571, E-I=-989/333, E-H=0/314, D-K=-1227/320, C-K=-1022/341, C-L=0/327

- 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint B, 152 lb uplift at joint K and 143 lb uplift at joint F.
 - 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

Job 20040580	Truss H3	Truss Type COMMON	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:55 2020 Page 1
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Scale = 1:52.1

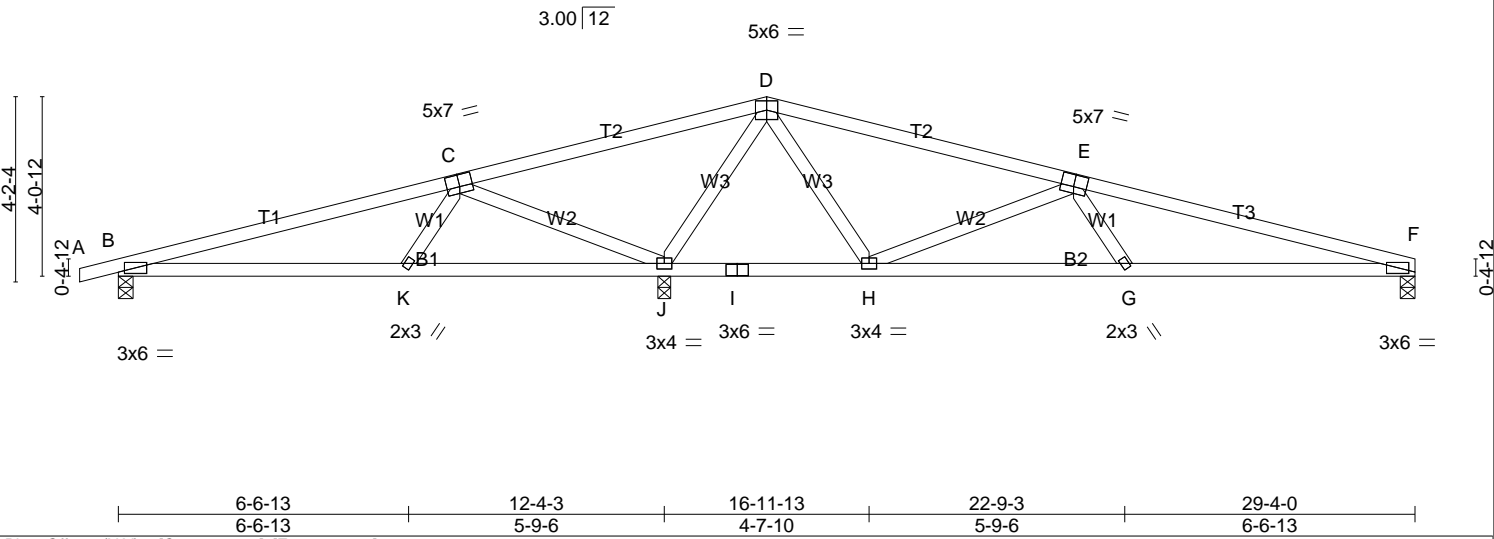


Plate Offsets (X,Y)-- [C:0-3-8,0-3-4], [E:0-3-8,0-3-4]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.07 G-Q >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.15 G-Q >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.56	Horz(CT) 0.01 F n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH			
				Weight: 124 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 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) B=331/0-4-0, J=1546/0-3-8, F=522/0-4-0
 Max Horz B=68(LC 14)
 Max Uplift B=108(LC 6), J=153(LC 6), F=108(LC 11)
 Max Grav B=396(LC 21), J=1546(LC 1), F=545(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/13, B-C=-458/180, C-D=-161/940, D-E=-218/101, E-F=-1246/283
 BOT CHORD B-K=-154/415, J-K=-247/310, I-J=-226/99, H-I=-226/99, G-H=-256/1069, F-G=-223/1169
 WEBS D-H=-81/573, E-H=-997/340, E-G=0/316, D-J=-1228/325, C-J=-1022/341, C-K=0/327

- 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint B, 153 lb uplift at joint J and 108 lb uplift at joint F.
 - 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

Job 20040580	Truss PA1	Truss Type Piggyback	Qty 15	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-Z835ltr5xdVu0t19fEyQcvzH45SqghsMNWYtUWzS7aL 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:56 2020 Page 1

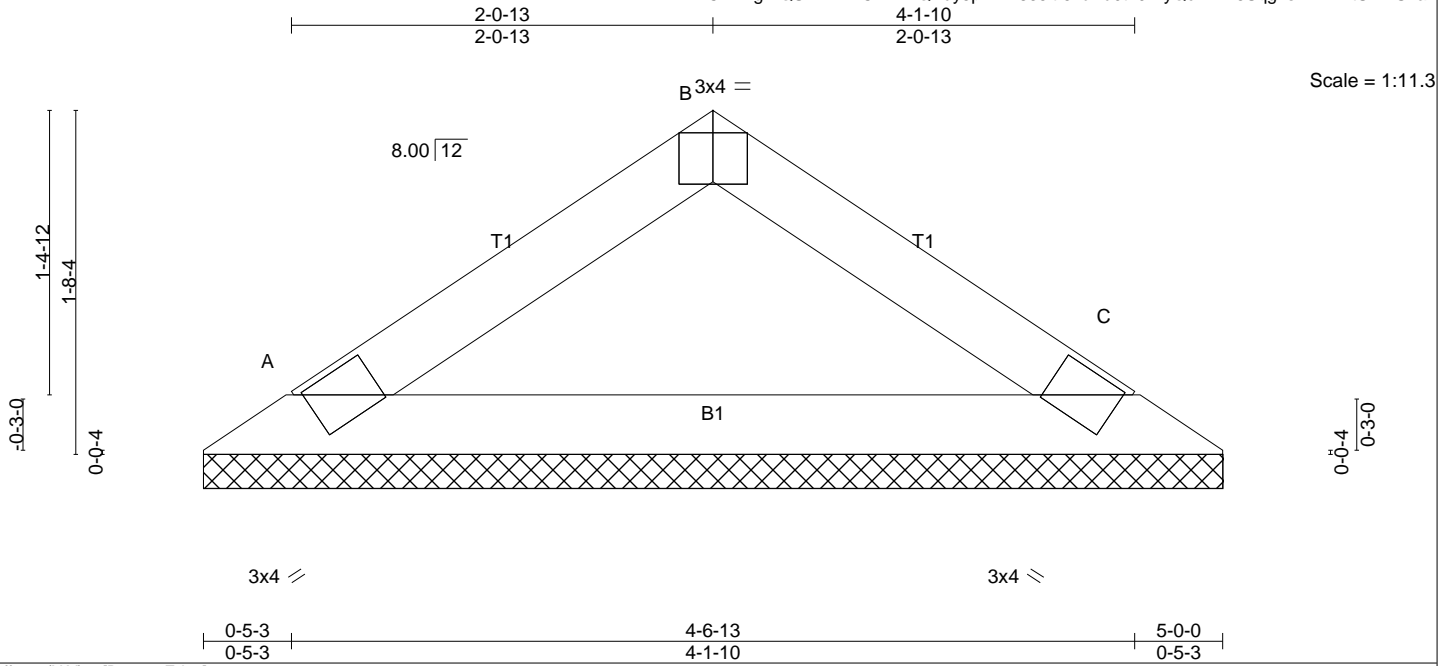


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)	SPACING-	CSL	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	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: 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 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=164/5-0-0, C=164/5-0-0
Max Horz A=-34(LC 6)
Max Uplift A=-18(LC 10), C=-18(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-138/62, B-C=-138/62
BOT CHORD A-C=-19/92

- NOTES-** (7)
- 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.

LOAD CASE(S) Standard

Job 20040580	Truss PA2	Truss Type Piggyback	Qty 5	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-Z835ltr5xdVu0t19fEyQcvzH45StghsMNVYtUWzS7aL

8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:56 2020 Page 1

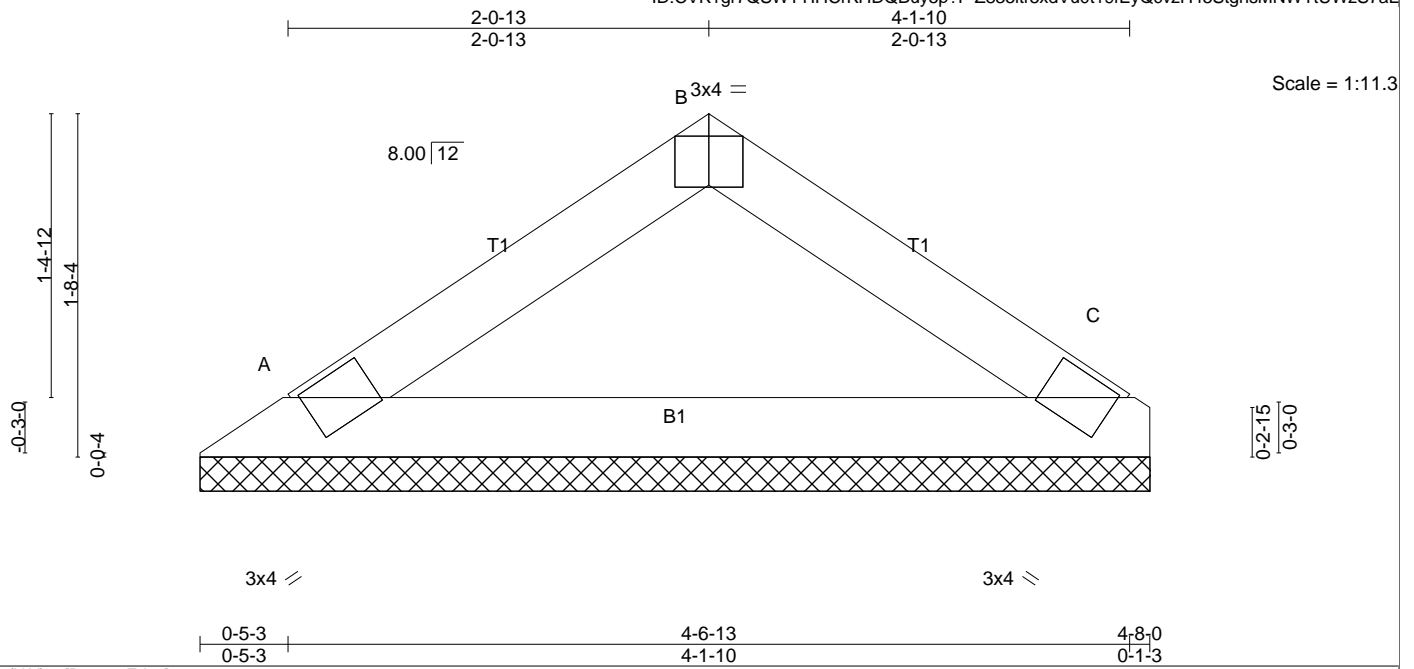


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	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: 14 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 4-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=163/4-8-0, C=163/4-8-0
Max Horz A=-34(LC 6)
Max Uplift A=-18(LC 10), C=-17(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-137/61, B-C=-137/62
BOT CHORD A-C=-18/91

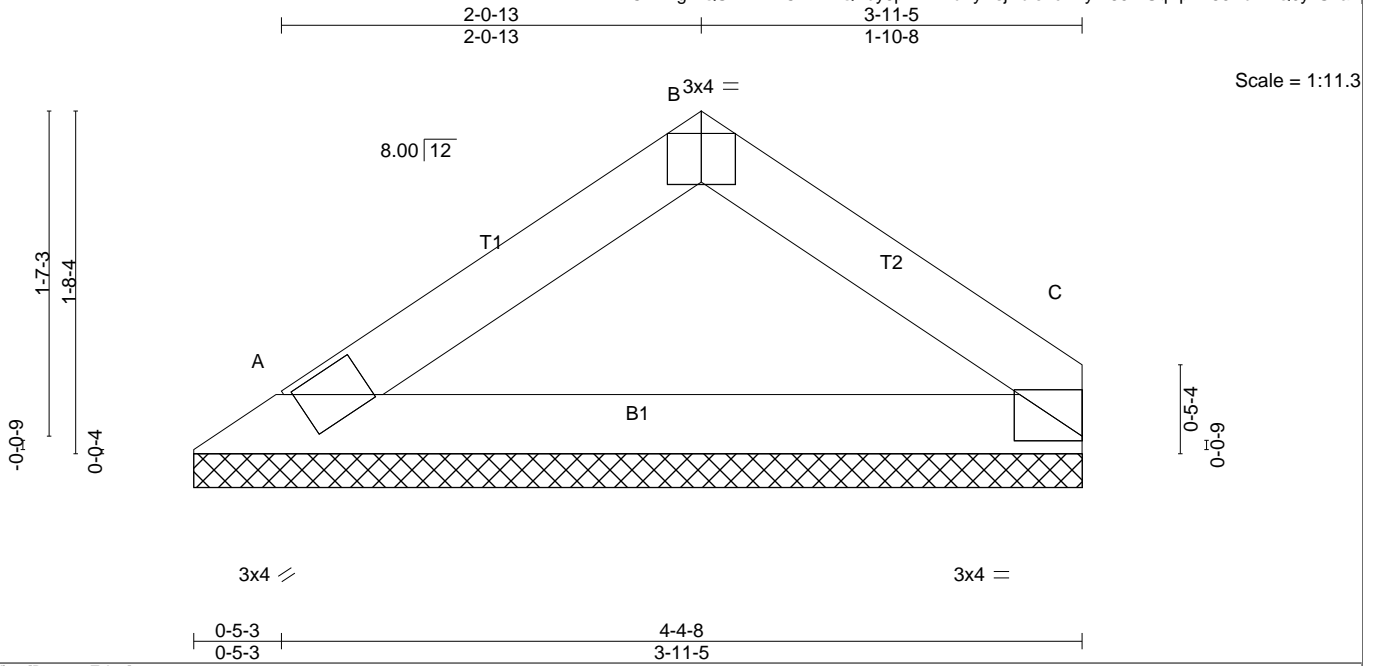
- NOTES-** (7)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.

LOAD CASE(S) Standard

Job 20040580	Truss PA3	Truss Type Piggyback	Qty 2	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:57 2020 Page 1

ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-1KdTyDsjixdle1clDyTTf86WSqVpLP86VbAHQ0yzS7ak



Scale = 1:11.3

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 C n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 14 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 4-4-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=157/4-4-8, C=157/4-4-8
 Max Horz A=-34(LC 8)
 Max Uplift A=-17(LC 10), C=-16(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-129/57, B-C=-131/59
 BOT CHORD A-C=-17/84

- NOTES-** (7)
- 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.

LOAD CASE(S) Standard

Job 20040580	Truss PD1	Truss Type Piggyback	Qty 5	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-1KdTyDsjiXdle1cLDyTI86WTFVpJP86VbAHQ0yzS7ak
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:57 2020 Page 1

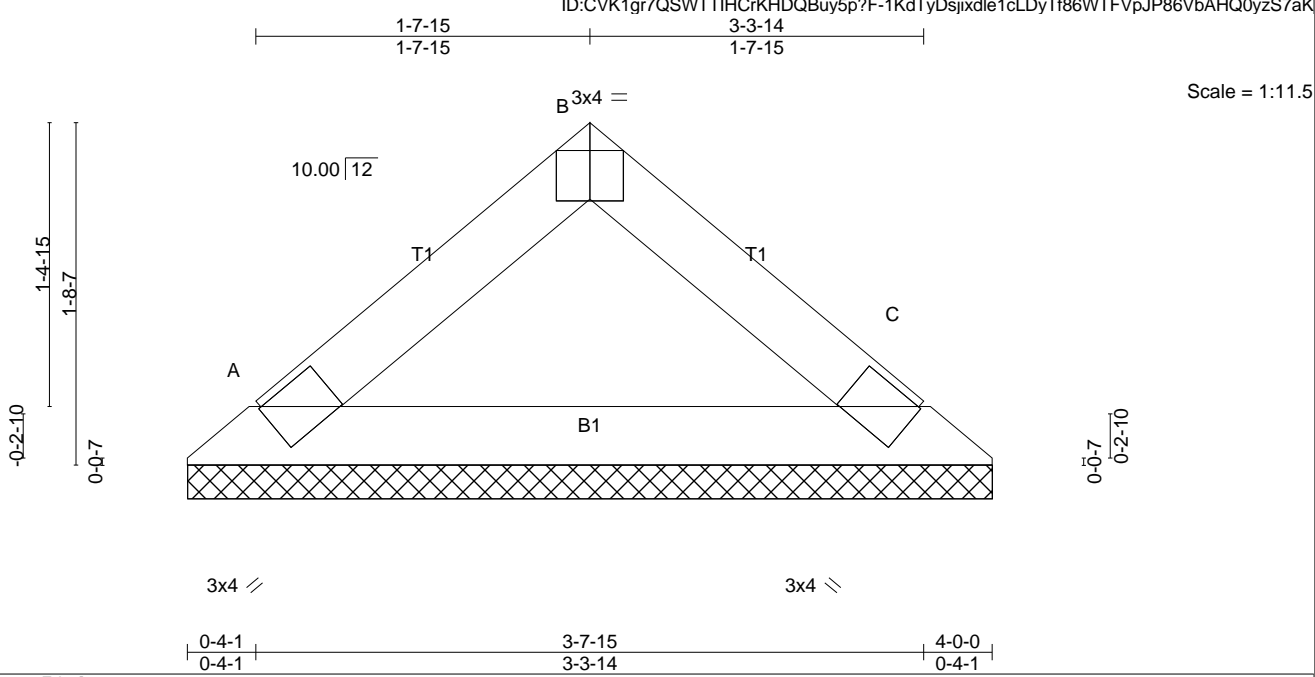


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	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: 12 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 4-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=131/4-0-0, C=131/4-0-0
 Max Horz A=34(LC 7)
 Max Uplift A=-12(LC 10), C=-12(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-102/44, B-C=-102/44
 BOT CHORD A-C=-9/62

- NOTES-** (7)
- 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.

LOAD CASE(S) Standard

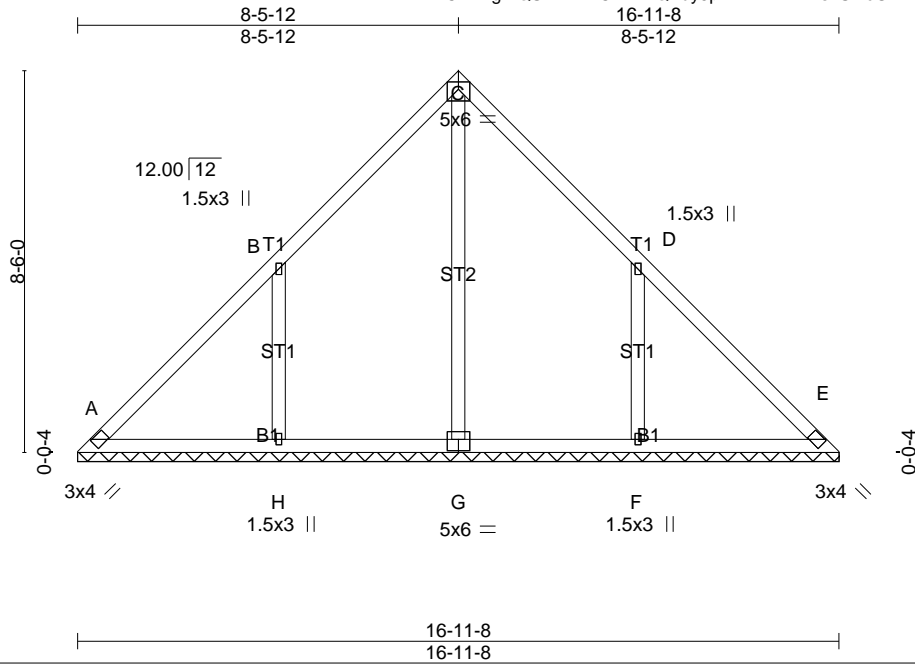


Plate Offsets (X,Y)-- [G:0-3-0,0-3-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.00 E n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 83 lb	FT = 20%

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

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

REACTIONS. (lb/size) A=167/16-11-8, E=167/16-11-8, G=197/16-11-8, H=387/16-11-8, F=387/16-11-8
 Max Horz A=-202(LC 6)
 Max Uplift A=-29(LC 6), H=-265(LC 10), F=-265(LC 11)
 Max Grav A=199(LC 18), E=173(LC 17), G=366(LC 20), H=499(LC 17), F=499(LC 18)

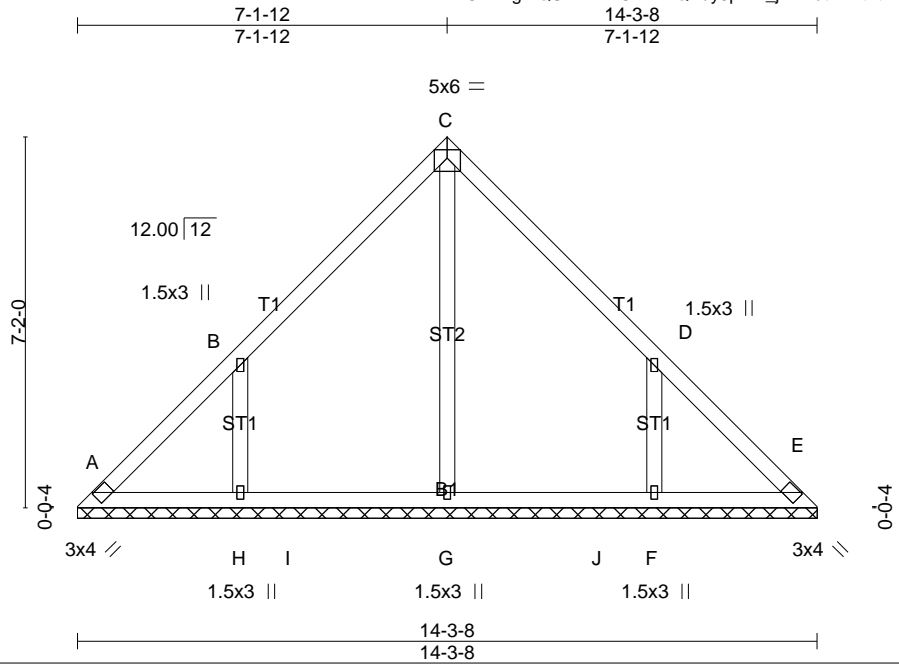
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-206/156, B-C=-170/158, C-D=-170/148, D-E=-173/108
 BOT CHORD A-H=-97/173, G-H=-97/173, F-G=-97/173, E-F=-97/173
 WEBS C-G=-157/20, B-H=-370/297, D-F=-370/297

- 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint A, 265 lb uplift at joint H and 265 lb uplift at joint 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.

LOAD CASE(S) Standard

Job 20040580	Truss V2	Truss Type Valley	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Apr 10 12:52:59 2020 Page 1
 ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-_jkdNutzDYtTtKmjKNV7DXbndIV1t1eo3UmX4rzS7at



Scale = 1:44.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 67 lb	FT = 20%

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

REACTIONS. (lb/size) A=117/14-3-8, E=117/14-3-8, G=221/14-3-8, H=318/14-3-8, F=318/14-3-8
 Max Horz A=-169(LC 6)
 Max Uplift A=-38(LC 6), E=-10(LC 7), H=-223(LC 10), F=-223(LC 11)
 Max Grav A=152(LC 18), E=132(LC 20), G=351(LC 20), H=398(LC 17), F=398(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-180/134, B-C=-164/133, C-D=-149/124, D-E=-160/93
 BOT CHORD A-H=-69/137, H-I=-69/137, G-I=-69/137, G-J=-69/137, F-J=-69/137, E-F=-69/137
 WEBS C-G=-143/0, B-H=-321/260, D-F=-321/259

- 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint A, 10 lb uplift at joint E, 223 lb uplift at joint H and 223 lb uplift at joint F.
 - 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.

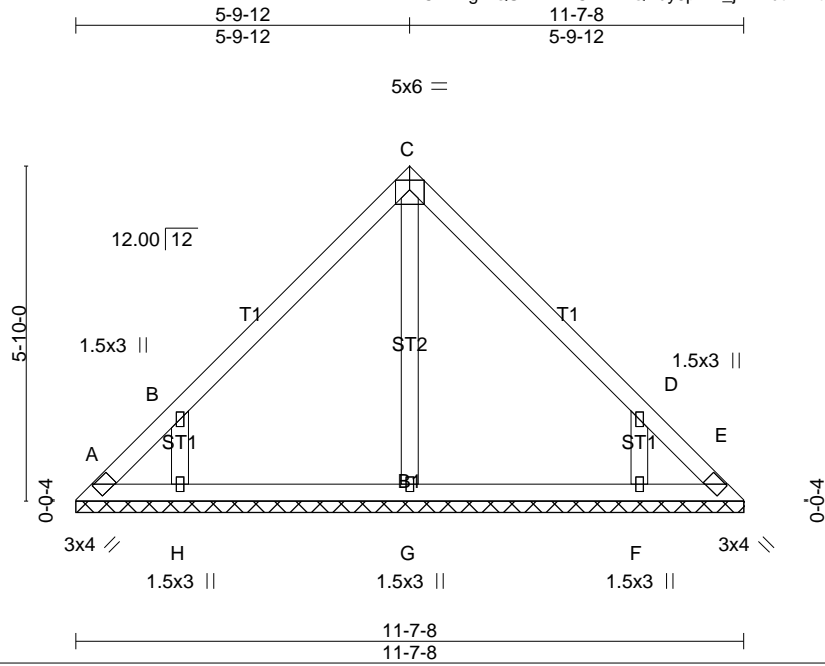
LOAD CASE(S) Standard

Job 20040580	Truss V3	Truss Type Valley	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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Scale = 1:40.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 52 lb	FT = 20%

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

REACTIONS. (lb/size) A=39/11-7-8, E=39/11-7-8, G=226/11-7-8, H=287/11-7-8, F=287/11-7-8
 Max Horz A=136(LC 7)
 Max Uplift A=-75(LC 8), E=-52(LC 9), H=-208(LC 10), F=-207(LC 11)
 Max Grav A=127(LC 10), E=111(LC 11), G=226(LC 1), H=335(LC 17), F=335(LC 18)

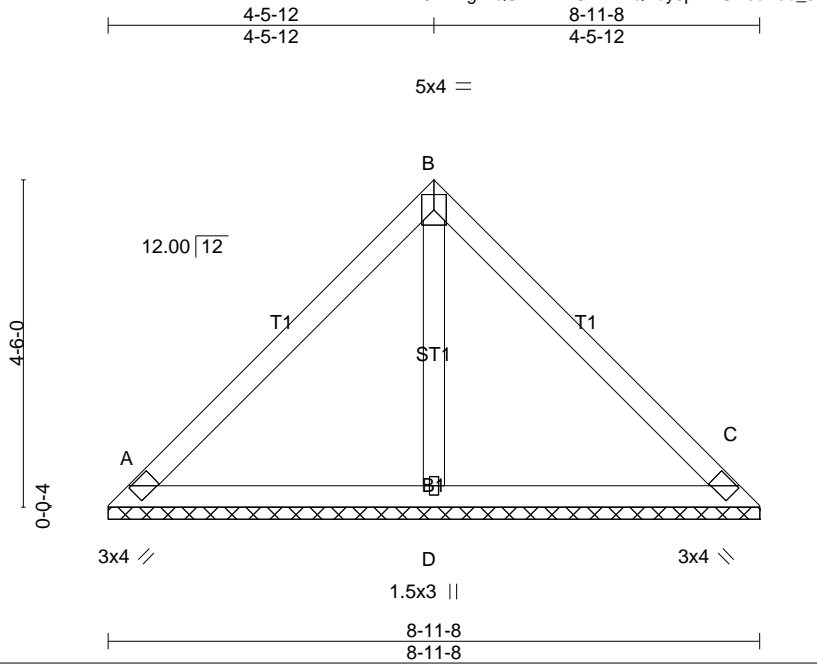
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-179/128, B-C=-162/109, C-D=-151/100, D-E=-158/95
 BOT CHORD A-H=-45/102, G-H=-45/102, F-G=-45/102, E-F=-45/102
 WEBS C-G=-139/0, B-H=-315/258, D-F=-315/258

- 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint A, 52 lb uplift at joint E, 208 lb uplift at joint H and 207 lb uplift at joint F.
 - 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 20040580	Truss V4	Truss Type Valley	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
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Scale: 3/8"=1'

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.21 BC 0.18 WB 0.06 Matrix-SH	DEFL. in (loc) l/defl 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	PLATES GRIP MT20 244/190 Weight: 37 lb FT = 20%
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LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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REACTIONS. (lb/size) A=180/8-11-8, C=180/8-11-8, D=304/8-11-8
 Max Horz A=103(LC 7)
 Max Uplift A=-29(LC 11), C=-29(LC 11), D=-17(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-160/80, B-C=-151/66
 BOT CHORD A-D=-28/74, C-D=-28/74
 WEBS B-D=-160/42

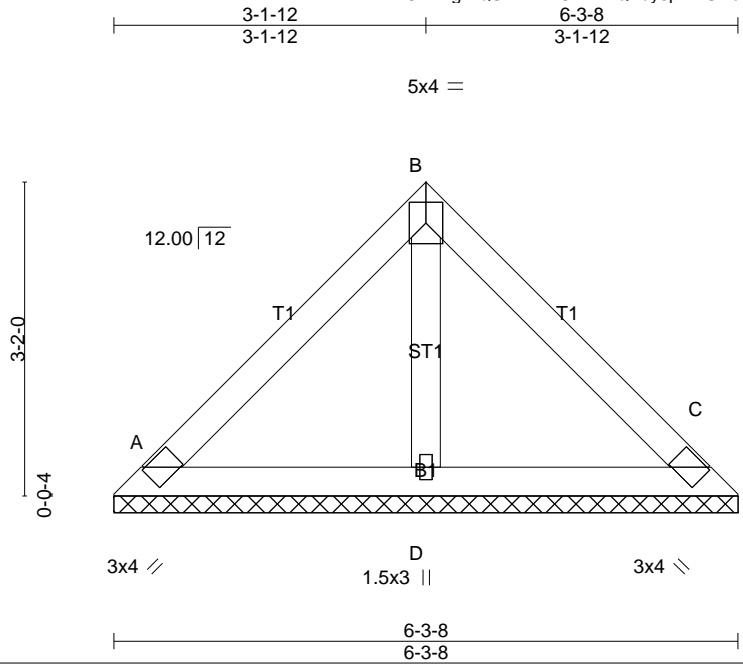
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint A, 29 lb uplift at joint C and 17 lb uplift at joint 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 20040580	Truss V5	Truss Type Valley	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
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Scale = 1:23.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	in (loc) l/defl 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 0.03	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 C n/a n/a		
	Code IRC2015/TPI2014			Weight: 25 lb	FT = 20%

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

REACTIONS. (lb/size) A=122/6-3-8, C=122/6-3-8, D=206/6-3-8
 Max Horz A=-70(LC 6)
 Max Uplift A=-20(LC 11), C=-20(LC 11), D=-12(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-109/54, B-C=-103/47
 BOT CHORD A-D=-19/50, C-D=-19/50
 WEBS B-D=-108/31

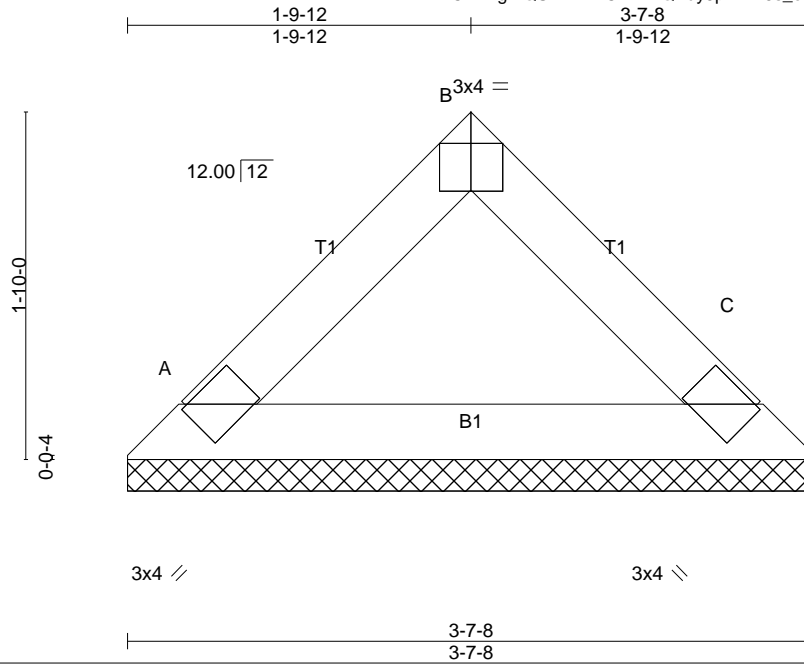
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint A, 20 lb uplift at joint C and 12 lb uplift at joint 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 20040580	Truss V6	Truss Type Valley	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber

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Scale = 1:12.2

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 C n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=119/3-7-8, C=119/3-7-8
 Max Horz A=-37(LC 6)
 Max Uplift A=-9(LC 10), C=-9(LC 11)

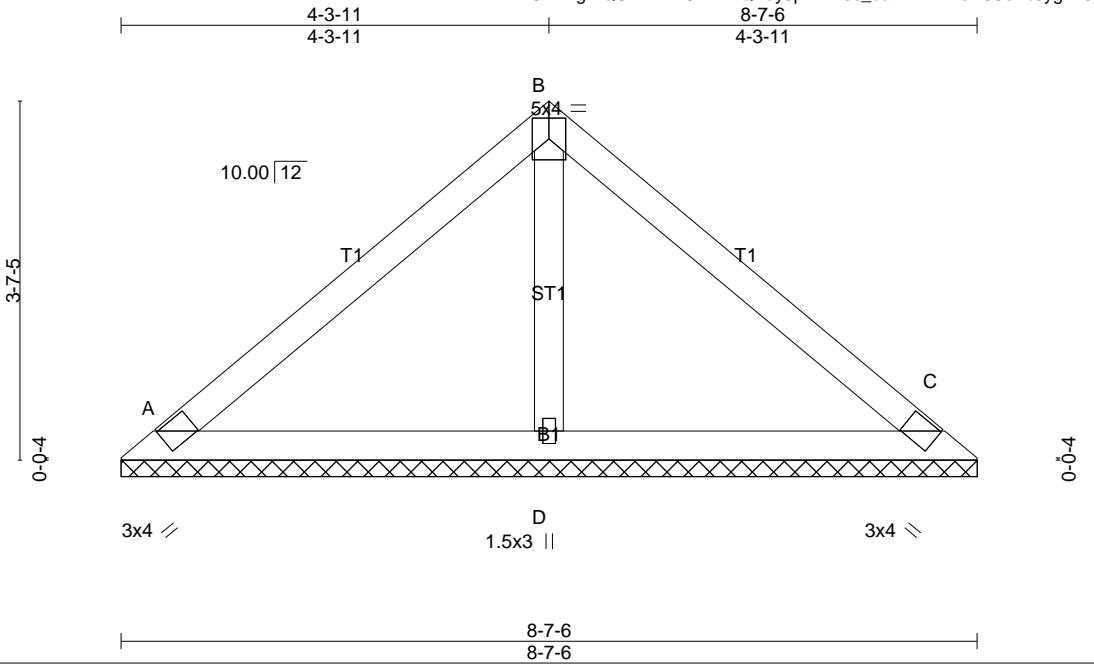
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-88/37, B-C=-88/37
 BOT CHORD A-C=-9/51

- 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint A and 9 lb uplift at joint C.
 - 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 20040580	Truss V7	Truss Type Valley	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-w5s_oavDIA7B7few6SoYbJyg7?6ApLxO5WoFe9jzS7aG
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 C n/a n/a	Weight: 33 lb FT = 20%
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH		

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

REACTIONS. (lb/size) A=162/8-7-6, C=162/8-7-6, D=306/8-7-6
 Max Horz A=-81(LC 6)
 Max Uplift A=-23(LC 11), C=-33(LC 11), D=-15(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-133/68, B-C=-127/58
 BOT CHORD A-D=-18/59, C-D=-18/59
 WEBS B-D=-171/51

- 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
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint A, 33 lb uplift at joint C and 15 lb uplift at joint D.
 - 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 20040580	Truss V8	Truss Type Valley	Qty 1	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
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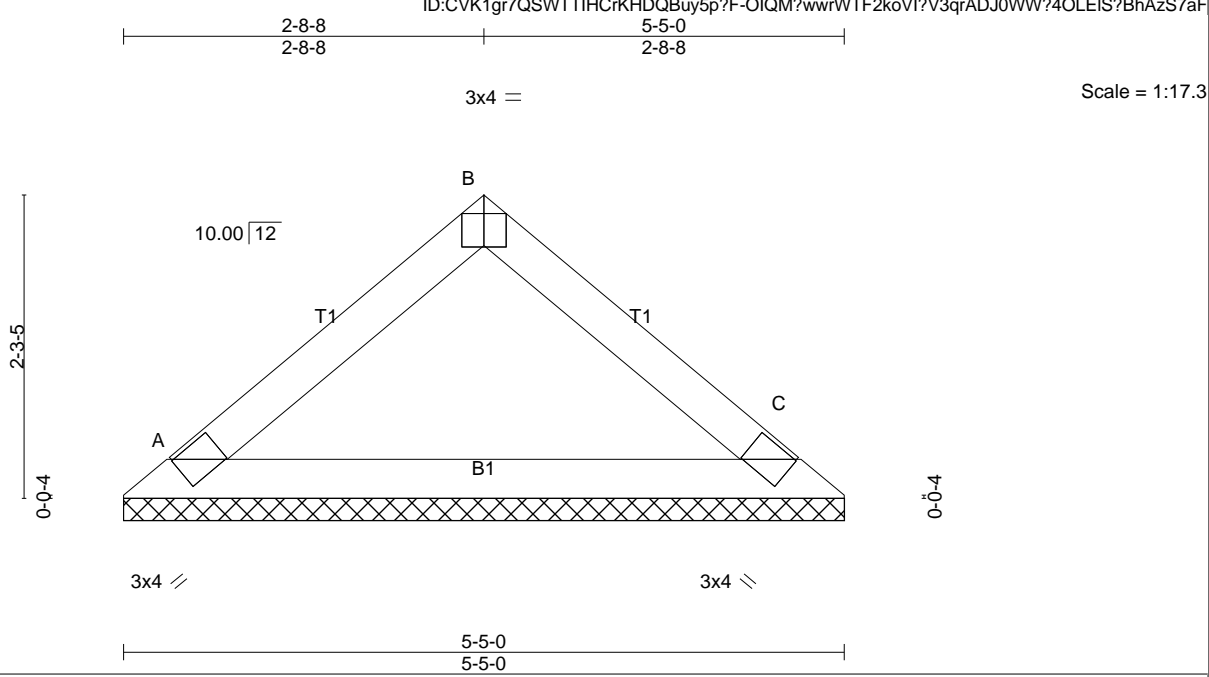


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	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-SH	Horz(CT) 0.00 C n/a n/a		
	Code IRC2015/TPI2014			Weight: 17 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 5-5-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=186/5-5-0, C=186/5-5-0
 Max Horz A=48(LC 9)
 Max Uplift A=-18(LC 10), C=-18(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-162/61, B-C=-162/61
 BOT CHORD A-C=-6/110

- 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; BCCL=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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint A and 18 lb uplift at joint C.
 - 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