

Plate Offsets (X,Y)-- [D:0-9-6,Edge], [E:0-6-8,0-2-8], [F:0-3-6,Edge], [J:0-6-12,Edge], [L:0-3-0,0-4-8], [N:0-2-4,0-3-8], [R:0-3-8,0-7-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.55 P-R >763 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.78 P-R >539 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.86	Horz(CT) 0.04 M n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH	Attic -0.32 P-R 613 360	Weight: 310 lb	FT = 20%

LUMBER- TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP SS, T3,T5: 2x4 SP SS BOT CHORD 2x6 SP No.2 *Except* B2: 2x10 SP 2400F 2.0E, B3: 2x4 SP No.3, B1: 2x10 SP No.1 WEBS 2x4 SP No.3 *Except* W2,W5,W3: 2x4 SP No.2 WEDGE Left: 2x4 SP No.2	BRACING- TOP CHORD Structural wood sheathing directly applied or 2-11-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); F-H. BOT CHORD Rigid ceiling directly applied or 5-4-13 oc bracing. WEBS 1 Row at midpt E-S, I-S JOINTS 1 Brace at Jt(s): S
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REACTIONS. (lb/size) M=1481/Mechanical, B=1547/0-4-0
 Max Horz B=255(LC 7)
 Max Uplift M=84(LC 11), B=100(LC 10)
 Max Grav M=1770(LC 19), B=1918(LC 18)

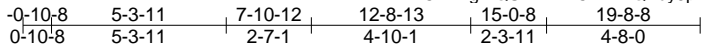
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/29, B-C=-3047/232, C-D=-2877/242, D-E=-2000/317, E-F=-331/229, F-G=-164/419, G-H=-164/417, H-I=-283/348, I-J=-1809/324, J-K=-3053/388, K-L=-2748/312, L-M=-2942/338
 BOT CHORD B-R=-134/2577, Q-R=-24/2001, P-Q=-24/2001, O-P=-66/113, N-O=-1034/241, K-N=-887/148, M-N=-206/2448
 WEBS D-R=0/1630, N-P=0/2107, J-N=-392/1427, J-P=-449/1103, E-S=-2238/243, I-S=-2238/243, L-N=-335/169, C-R=-1028/207, G-S=0/121

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Ceiling dead load (5.0 psf) on member(s). D-E, I-J, E-S, I-S
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. P-R
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint M and 100 lb uplift at joint B.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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 19081327	Truss A6	Truss Type ROOF TRUSS	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 Jan 10 09:29:33 2020 Page 1
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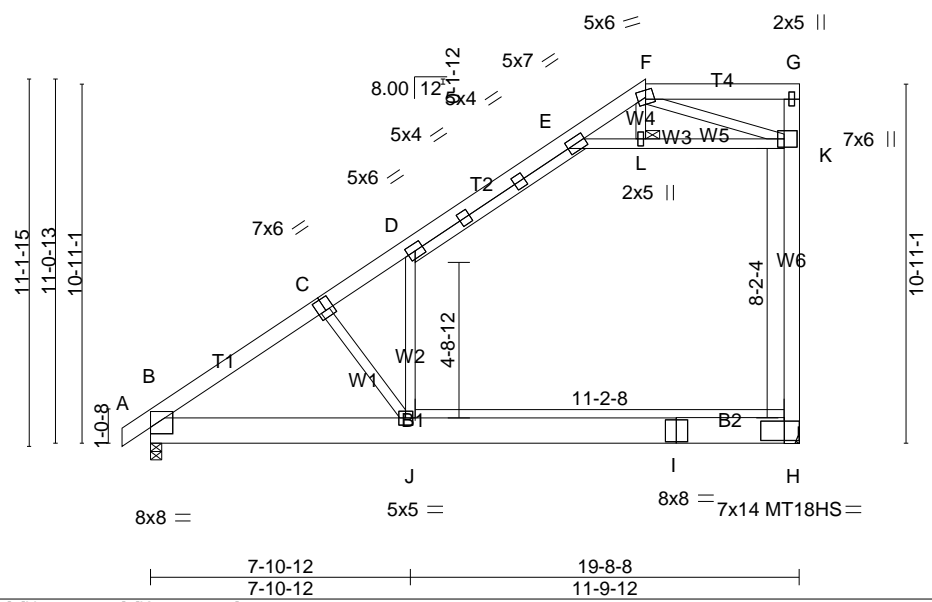


Plate Offsets (X,Y)-- [C:0-3-0,0-4-8], [H:0-8-8,0-3-8], [K:0-3-0,0-2-4]

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 0.95	Vert(LL) -0.50 H-J >469 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.82 H-J >285 180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.05 B n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH	Attic -0.27 H-J 521 360		
				Weight: 197 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP No.1, T3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): F-G.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 8-5-9 oc bracing.
WEBS 2x4 SP No.3 *Except* W6: 2x6 SP SS	JOINTS 1 Brace at Jt(s): L

REACTIONS. (lb/size) B=867/0-4-0, H=859/Mechanical
 Max Horz B=394(LC 9)
 Max Uplift B=78(LC 10), H=99(LC 7)
 Max Grav B=1011(LC 18), H=1278(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/29, B-C=-932/0, C-D=-786/8, D-E=-431/79, E-F=-260/116, F-G=-217/977, H-K=-494/200, G-K=-123/71
 BOT CHORD B-J=-289/792, I-J=-174/337, H-I=-174/337
 WEBS D-J=0/603, E-L=-319/187, K-L=-323/184, F-L=0/58, F-K=-1211/466, C-J=-793/227

- 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). D-E, E-L, K-L
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. H-J
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint B and 99 lb uplift at joint H.
 - 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 19081327	Truss A7	Truss Type ROOF TRUSS	Qty 1	Ply 3	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 Jan 10 09:29:35 2020 Page 1

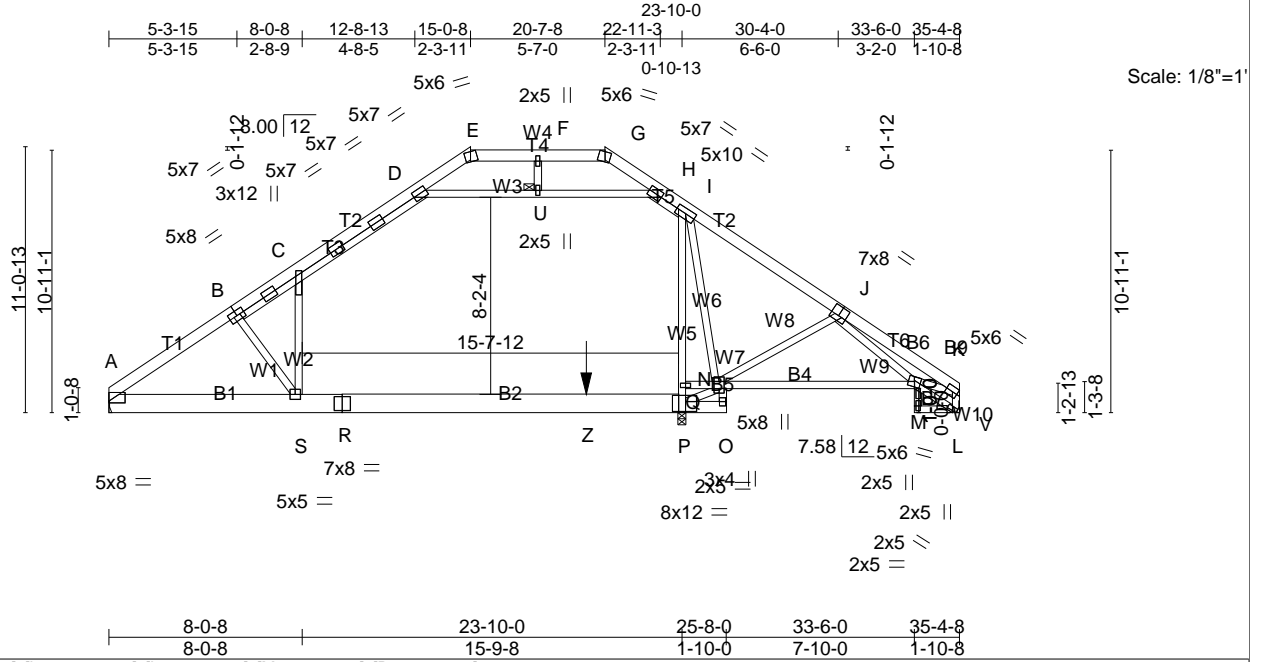


Plate Offsets (X,Y)-- [J:0-4-0,0-4-8], [L:0-2-8,0-0-14], [L:0-2-5,0-1-6], [M:0-1-4,0-1-0], [P:0-6-8,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) -0.46 P-S >617 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.46	Vert(CT) -0.67 P-S >425 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.04 V n/a n/a		
	Code IRC2015/TP12014		Attic -0.35 P-S 552 360	Weight: 919 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP SS, T3: 2x4 SP SS, T5: 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): E-G.
BOT CHORD 2x4 SP No.3 *Except* B1: 2x10 SP No.1, B4,B7,B8: 2x4 SP No.2, B3: 2x6 SP SS, B2: 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W10: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): U

REACTIONS. (lb/size) A=1864/Mechanical, P=1567/0-4-0, V=1550/Mechanical
Max Horz A=245(LC 5)
Max Uplift A=233(LC 8), P=450(LC 4), V=184(LC 8)
Max Grav A=2595(LC 16), P=2902(LC 17), V=1955(LC 16)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-4408/364, B-C=-4209/370, C-D=-2512/339, D-E=-169/473, E-F=-53/681, F-G=-54/680, G-H=-206/503, H-I=-2412/356, I-J=-3105/407, J-K=-3652/337
BOT CHORD A-S=-398/3779, R-S=-250/2777, R-Z=-251/2781, P-Z=-248/2742, N-O=-2846/186, N-Q=96/17, M-N=-294/2804, O-P=-356/0, L-V=-1955/184, K-L=-1923/180, L-M=-29/34
WEBS C-S=-149/2957, P-Q=-313/2166, I-Q=-333/2109, N-P=-246/3563, J-N=-449/232, D-U=-3378/495, H-U=-3378/495, I-N=-971/314, B-S=-1790/302, J-M=0/400, F-U=0/152, K-M=-225/3021

- NOTES-**
- 3-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 - 4 rows staggered at 0-4-0 oc, 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). C-D, H-I, D-U, H-U
 - 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) P considers parallel to grain value using ANSI/TP1 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 233 lb uplift at joint A, 450 lb uplift at joint P and 184 lb uplift at joint V.
 - 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.
 - 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) 3511 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.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced); Lumber Increase=1.15, Plate Increase=1.15

Job 19081327	Truss A7	Truss Type ROOF TRUSS	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 Jan 10 09:29:35 2020 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: A-C=-60, C-D=-70, D-E=-60, E-G=-60, G-H=-60, H-I=-70, I-K=-60, O-W=-20, M-N=-20, D-H=-10, L-M=-20

Concentrated Loads (lb)

Vert: Z=-2000(F)

Job 19081327	Truss A8	Truss Type ROOF TRUSS	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 Jan 10 09:29:36 2020 Page 1
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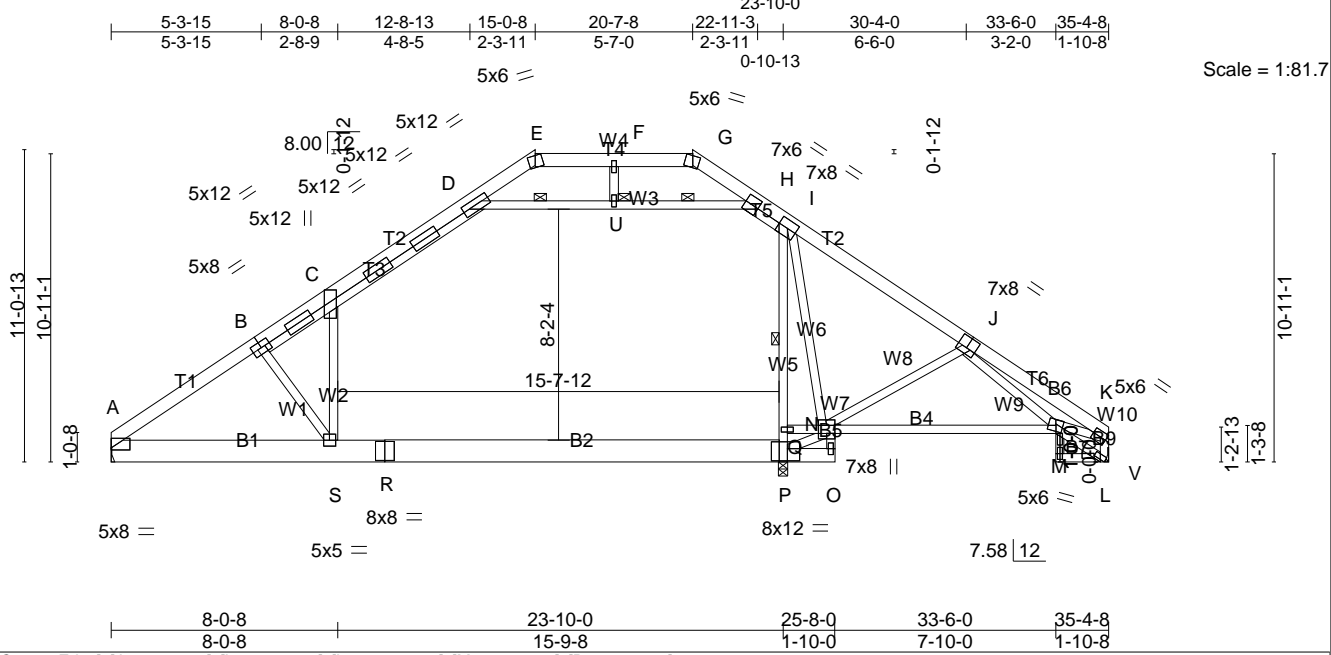


Plate Offsets (X,Y)-- [C:0-9-6,Edge], [J:0-4-0,0-4-8], [L:0-2-5,0-1-6], [L:0-2-8,0-0-14], [M:0-1-4,0-1-0], [P:0-5-4,0-5-0]

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 0.74	Vert(LL) -0.59 P-S >486 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.84 P-S >339 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.10 V n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH	Attic -0.42 P-S 457 360	Weight: 306 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP SS, T3: 2x4 SP SS, T5: 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): E-G.
BOT CHORD 2x4 SP No.3 *Except* B1: 2x10 SP No.1, B4,B7,B8: 2x4 SP No.2, B3: 2x6 SP SS, B2: 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 5-6-2 oc bracing.
WEBS 2x4 SP No.3 *Except* W10: 2x4 SP No.2	WEBS 1 Row at midpt I-P, D-U, H-U
	JOINTS 1 Brace at Jt(s): U

REACTIONS. (lb/size) A=1401/Mechanical, P=300/0-4-0, V=1280/Mechanical
 Max Horz A=245(LC 7)
 Max Uplift A=148(LC 10), P=220(LC 6), V=135(LC 10)
 Max Grav A=1782(LC 18), P=680(LC 19), V=1480(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-2667/228, B-C=-2492/238, C-D=-1665/311, D-E=-380/211, E-F=-288/264, F-G=-288/263, G-H=-430/202, H-I=-1563/323, I-J=-2231/316, J-K=-2747/269
BOT CHORD A-S=-248/2354, R-S=-142/1746, P-R=-143/1746, N-O=-890/0, N-Q=-13/40, M-N=-217/2064, O-P=-150/0, L-V=-1480/172, K-L=-1467/176, L-M=-30/41
WEBS C-S=0/1474, P-Q=-477/571, I-Q=-519/524, N-P=-92/2081, J-N=-424/229, D-U=-1882/339, H-U=-1882/339, I-N=-40/644, B-S=-1087/225, J-M=0/391, F-U=0/112, K-M=-146/2261

- 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 2x5 MT20 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). C-D, H-I, D-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-S
 - 9) Bearing at joint(s) P considers parallel to grain value using ANSI/TP1 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 148 lb uplift at joint A, 220 lb uplift at joint P and 135 lb uplift at joint V.
 - 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/TP1.
 - 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 19081327	Truss A9	Truss Type ROOF TRUSS	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 Jan 10 09:29:37 2020 Page 1
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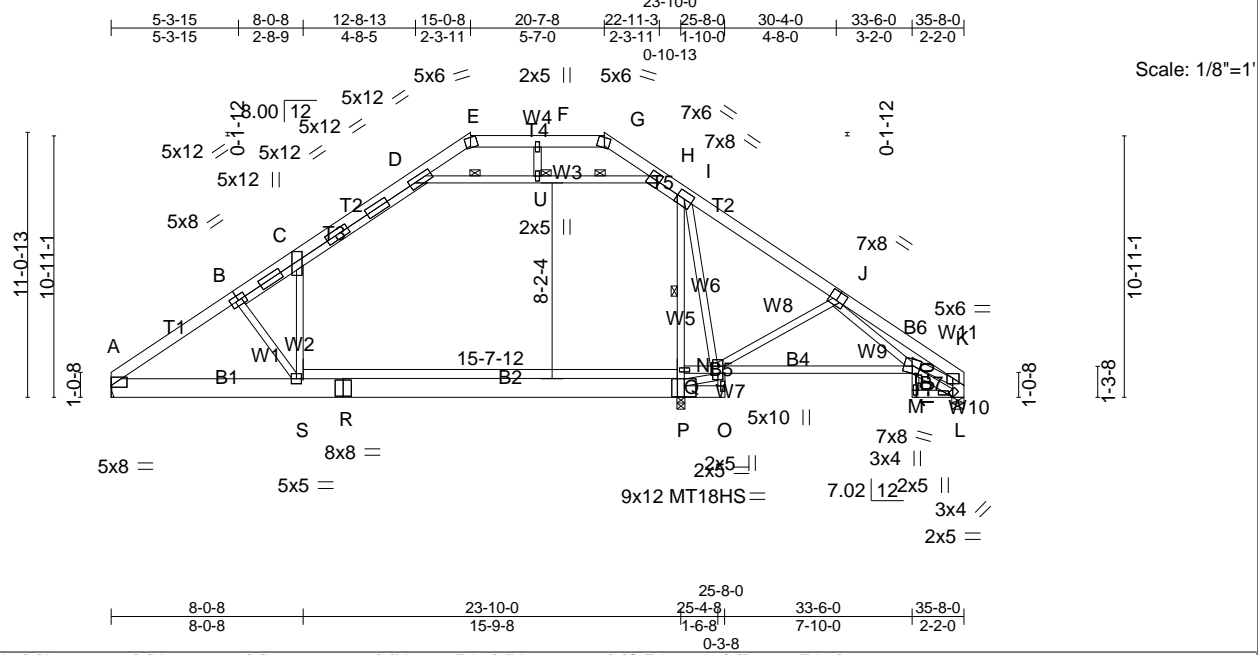


Plate Offsets (X,Y)-- [C:0-9-6,Edge], [J:0-4-0,0-4-8], [K:0-3-0,0-2-4], [L:0-1-12,0-0-14], [M:0-1-0,Edge], [N:0-4-0,0-3-6], [O:Edge,0-3-8], [P:0-6-4,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.73	Vert(LL) -0.58 P-S >490 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.84 P-S >342 180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.10 L n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH	Attic -0.42 P-S 460 360		Weight: 309 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP SS, T3: 2x4 SP SS, T5: 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-G.
BOT CHORD 2x4 SP No.2 *Except* B1: 2x10 SP No.1, B5,B6: 2x4 SP No.3, B3: 2x6 SP SS, B2: 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 5-6-4 oc bracing.
WEBS 2x4 SP No.3 *Except* W11: 2x6 SP No.2	WEBS 1 Row at midpt I-P, D-U, H-U
	JOINTS 1 Brace at Jt(s): U

REACTIONS. (lb/size) A=1388/Mechanical, P=362/0-4-0, L=1251/0-6-0
 Max Horz A=267(LC 9)
 Max Uplift A=147(LC 10), P=199(LC 6), L=130(LC 10)
 Max Grav A=1765(LC 18), P=740(LC 19), L=1435(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-2639/229, B-C=-2464/239, C-D=-1651/312, D-E=-381/210, E-F=-291/262, F-G=-291/261, G-H=-433/200, H-I=-1550/323, I-J=-2177/312, J-K=-2951/277, K-L=-1361/171
 BOT CHORD A-S=-227/2338, R-S=-154/1736, P-R=-154/1736, N-O=-872/0, N-Q=-15/42, M-N=-196/2070, O-P=-133/0, L-M=-113/12
 WEBS C-S=0/1456, P-Q=-441/640, I-Q=-483/594, J-N=-467/231, D-U=-1861/338, H-U=-1861/338, N-P=-101/2014, I-N=-29/556, B-S=-1074/224, K-M=-143/2535, J-M=0/520, F-U=0/112

- 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, H-I, D-U, H-U
 - 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) P, L considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint A, 199 lb uplift at joint P and 130 lb uplift at joint L.
 - 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 19081327	Truss A10	Truss Type ROOF TRUSS	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 Jan 10 09:29:38 2020 Page 1
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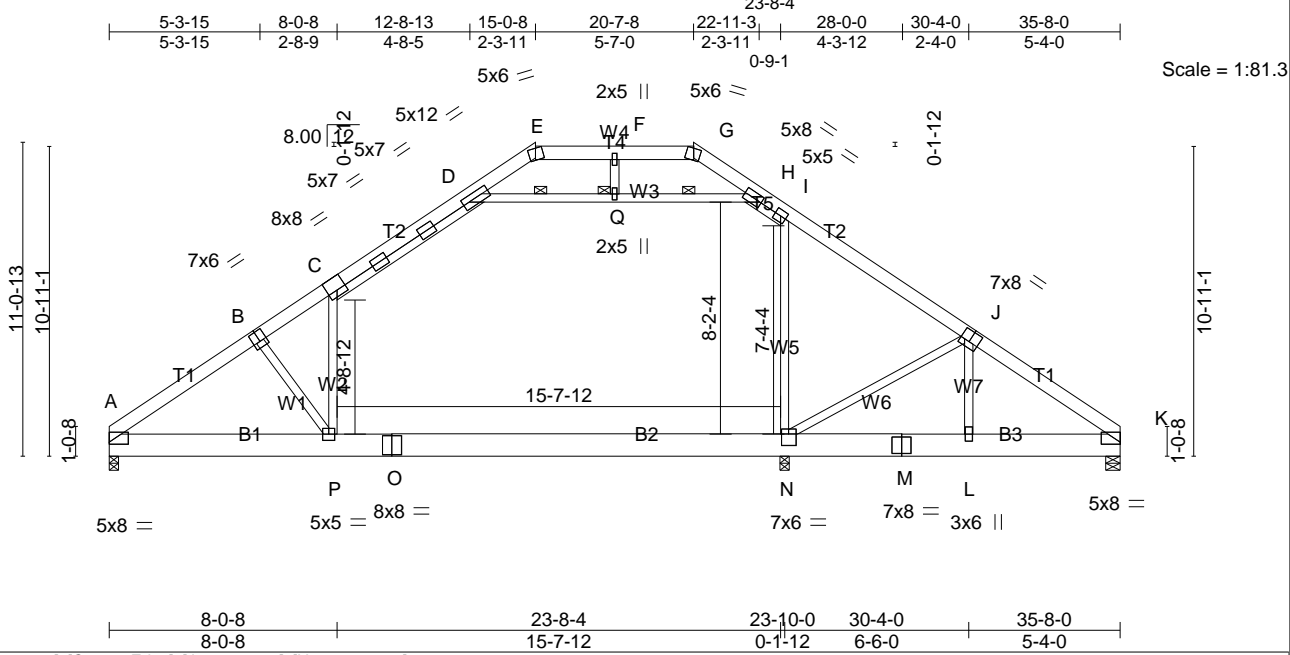


Plate Offsets (X,Y)-- [B:0-3-0,0-4-8], [C:0-4-0,Edge], [J:0-4-0,0-4-8], [N:0-3-0,0-4-12]

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 0.91 BC 0.57 WB 0.54 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) -0.47 N-P >610 240 Vert(CT) -0.67 N-P >426 180 Horz(CT) 0.03 K n/a n/a Attic -0.32 N-P 605 360	PLATES MT20 GRIP 244/190 Weight: 308 lb FT = 20%
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LUMBER- TOP CHORD 2x6 SP No.2 *Except* T2: 2x6 SP SS, T3: 2x4 SP No.2, T5: 2x4 SP No.3 BOT CHORD 2x10 SP No.1 *Except* B2: 2x10 SP 2400F 2.0E WEBS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): E-G. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt D-Q, H-Q JOINTS 1 Brace at Jt(s): Q
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REACTIONS. (lb/size) A=1375/0-4-0, N=422/0-4-0, K=1215/0-6-0
 Max Horz A=246(LC 6)
 Max Uplift A=155(LC 10), N=166(LC 6), K=143(LC 10)
 Max Grav A=1698(LC 18), N=966(LC 19), K=1283(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-2443/243, B-C=-2291/257, C-D=-1637/326, D-E=-382/197, E-F=-285/227, F-G=-286/226, G-H=-424/198, H-I=-1478/333, I-J=-2057/325, J-K=-1695/296
 BOT CHORD A-P=-248/2159, O-P=-154/1674, N-O=-154/1674, M-N=-171/1355, L-M=-171/1355, K-L=-173/1376
 WEBS C-P=0/1128, I-N=-143/707, J-L=-630/77, J-N=-192/460, D-Q=-1771/350, H-Q=-1771/350, B-P=-845/210, F-Q=0/109

- 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-Q, H-Q
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. N-P
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint A, 166 lb uplift at joint N and 143 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 19081327	Truss A11	Truss Type Monopitch	Qty 1	Ply 1	288 NC2015
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 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:29:39 2020 Page 1
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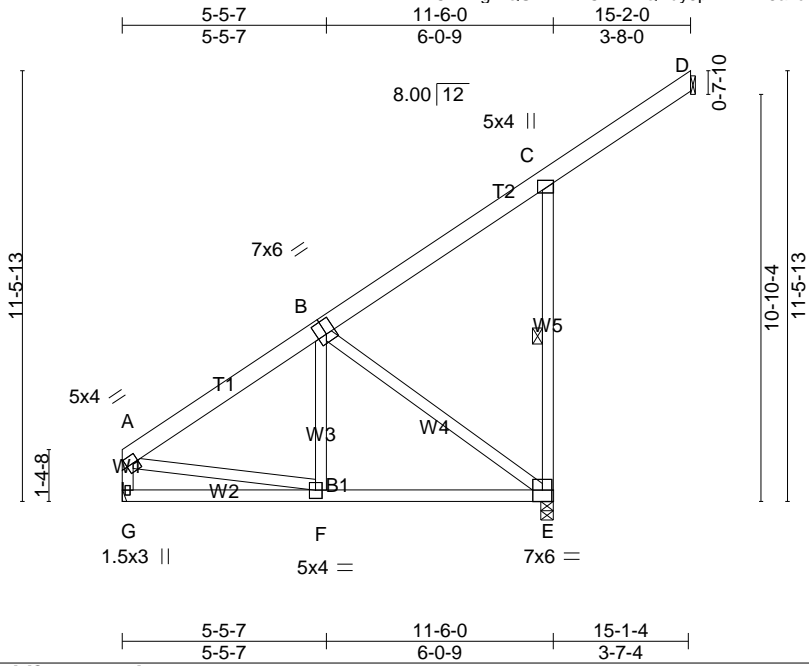


Plate Offsets (X,Y)-- [A:0-1-12,0-2-8], [B:0-3-0,0-4-8], [C:0-2-0,0-1-12]

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 0.50	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 0.47	Horz(CT) -0.01 D n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH		Weight: 98 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 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 9-10-14 oc bracing.
WEBS 2x4 SP No.3 *Except* W5: 2x4 SP No.2	WEBS 1 Row at midpt C-E

REACTIONS. (lb/size) D=73/Mechanical, G=435/Mechanical, E=613/0-4-0
 Max Horz G=375(LC 7)
 Max Uplift D=67(LC 10), E=255(LC 10)
 Max Grav D=76(LC 17), G=450(LC 18), E=694(LC 17)

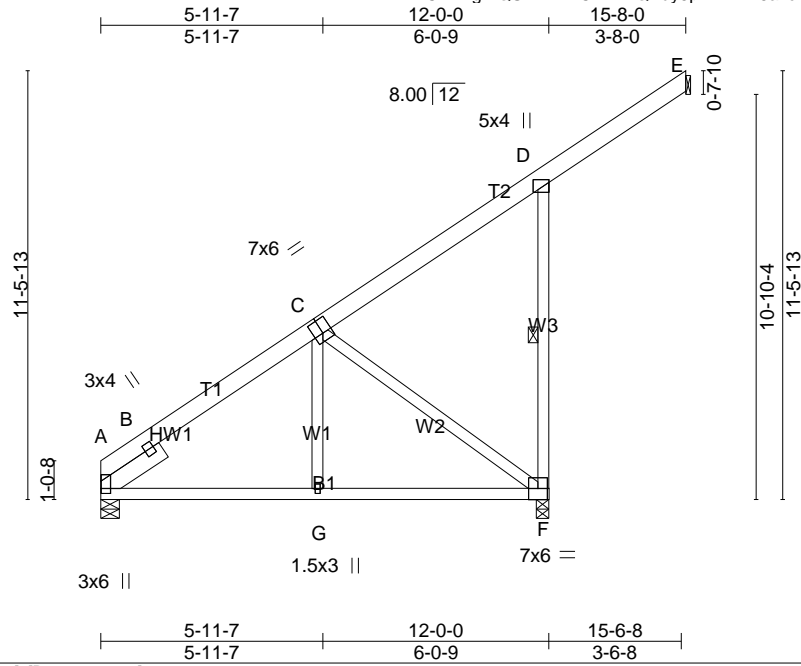
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-508/7, B-C=-235/170, C-D=-93/52, C-E=-375/174, A-G=-410/29
 BOT CHORD F-G=-348/266, E-F=-129/383
 WEBS B-F=0/224, B-E=-451/201, A-F=-13/335

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint D and 255 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 19081327	Truss A12	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 Jan 10 09:29:39 2020 Page 1
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Scale = 1:61.7

Plate Offsets (X,Y)-- [A:0-3-14,0-0-3], [C:0-3-0,0-4-8], [D:0-2-0,0-1-12]

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 0.50	Vert(LL) -0.04 F-G >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.08 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	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 *Except*	WEBS 1 Row at midpt D-F
W3: 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 - \$ 1-11-12	

REACTIONS. (lb/size) E=73/Mechanical, A=462/0-6-0, F=638/0-4-0
 Max Horz A=363(LC 7)
 Max Uplift E=70(LC 10), F=250(LC 10)
 Max Grav E=77(LC 17), A=463(LC 18), F=713(LC 17)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-231/23, B-C=-537/6, C-D=-233/168, D-E=-94/53, D-F=-371/164
 BOT CHORD A-G=-125/416, F-G=-125/415
 WEBS C-G=0/259, C-F=490/214

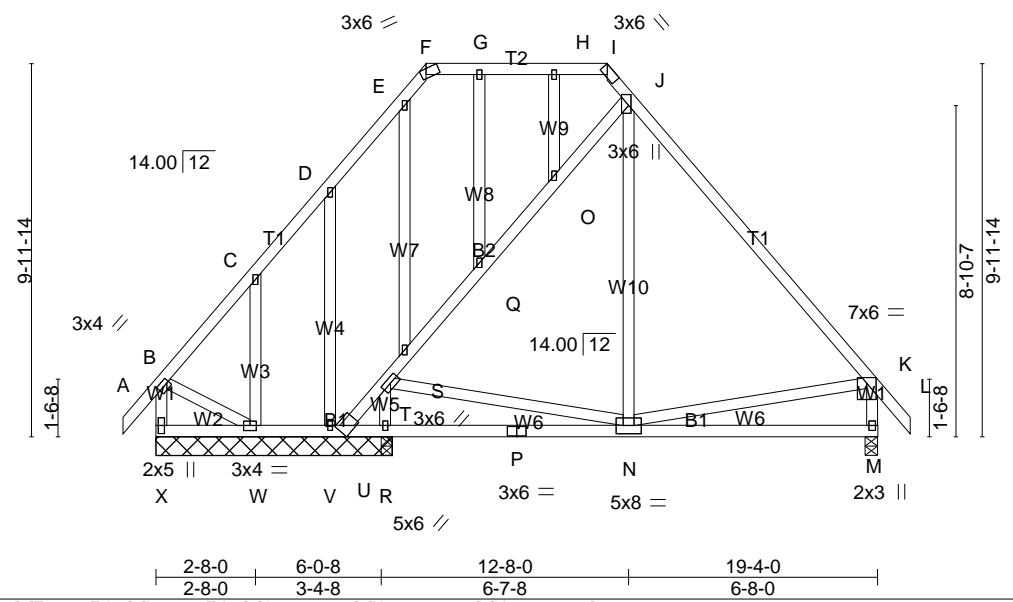
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint E and 250 lb uplift at joint F.
 - 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 19081327	Truss B1	Truss Type Hip Structural Gable	Qty 1	Ply 1	288 NC2015
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 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:29:41 2020 Page 1
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-0-10-8	2-8-0	7-2-14	12-1-2	12-8-0	19-4-0	20-2-8
0-10-8	2-8-0	4-6-14	4-10-3	0-6-14	6-8-0	0-10-8



Scale = 1:61.7

Plate Offsets (X,Y)-- [B:0-0-12,0-1-8], [F:0-1-9,Edge], [I:0-2-11,Edge], [J:0-2-8,0-2-4], [K:0-3-0,0-1-12], [U:0-1-3,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(LL) -0.04 M-N >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.08 M-N >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.00 M n/a n/a		
	Code IRC2015/TPI2014			Weight: 170 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, and 2-0-0 oc purlins (6-0-0 max.): F-1.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W1: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): O, Q, S

REACTIONS. (lb/size) X=393/6-4-0, M=693/0-4-0, U=255/6-4-0, V=263/6-4-0, W=110/6-4-0, R=595/6-4-0, R=595/6-4-0
 Max Horz X=-295(LC 8)
 Max Uplift X=-6(LC 8), U=-356(LC 20), V=-126(LC 10), W=-347(LC 10)
 Max Grav X=523(LC 19), M=693(LC 1), U=28(LC 7), V=286(LC 17), W=231(LC 8), R=632(LC 3), R=595(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/47, B-C=-442/265, C-D=-346/129, D-E=-350/87, E-F=-259/90, F-G=-196/89, G-H=-196/89, H-I=-196/89, I-J=-241/77, J-K=-605/22, K-L=0/47, B-X=-499/254, K-M=-634/30
 BOT CHORD W-X=-279/282, V-W=-222/434, U-V=-222/434, R-U=-70/194, P-R=-70/194, N-P=-70/194, M-N=-159/232, T-U=-225/375, S-T=-554/377, Q-S=-433/289, O-Q=-417/286, J-O=-388/285
 WEBS H-O=-10/44, G-Q=-7/53, E-S=-146/144, D-V=-185/167, C-W=-219/180, B-W=-261/449, J-N=-8/212, K-N=-177/409, R-T=-450/40, N-T=0/172

- 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
 - Truss designed for wind loads in the plane of the truss only.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint X, 356 lb uplift at joint U, 126 lb uplift at joint V and 347 lb uplift at joint W.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

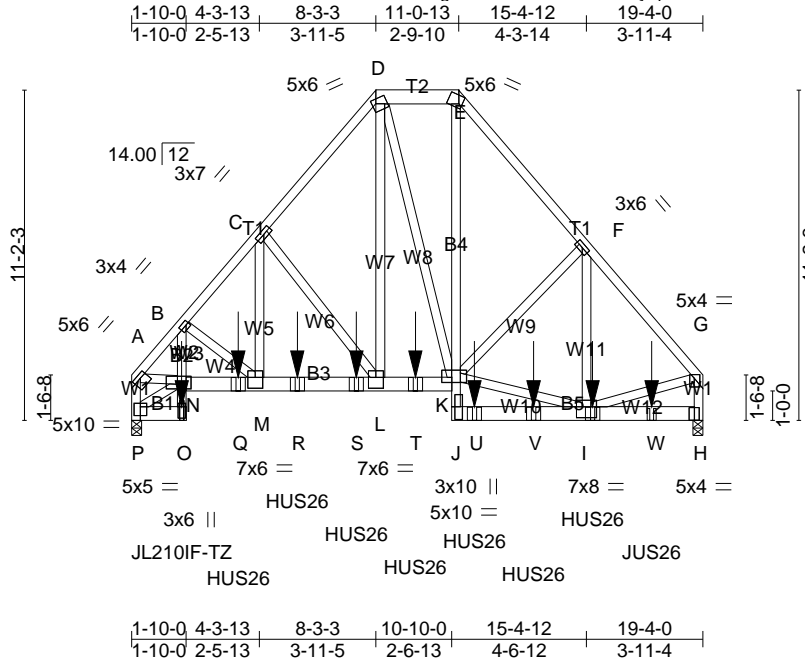
LOAD CASE(S) Standard

Job 19081327	Truss B2	Truss Type HIP GIRDER	Qty 1	Ply 3	288 NC2015
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8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:29:44 2020 Page 1

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

Plate Offsets (X,Y)-- [A:0-2-12,0-1-8], [B:0-1-4,0-1-8], [D:0-1-4,0-3-4], [E:0-1-6,Edge], [G:0-2-4,0-1-8], [I:0-4-0,0-4-4], [J:0-5-0,0-1-4], [K:0-4-0,0-2-0], [L:0-3-0,0-4-4], [M:0-3-0,0-4-4], [N:0-5-8,0-1-12], [O:0-4-8,0-1-8], [P:0-2-8,0-3-8]

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 YES Code IRC2015/TPI2014	CSI. TC 0.33 BC 0.72 WB 0.89 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) -0.08 L-M >999 240 Vert(CT) -0.15 L-M >999 180 Horz(CT) 0.08 H n/a n/a	PLATES MT20 GRIP 244/190 Weight: 583 lb FT = 20%
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LUMBER- TOP CHORD 2x4 SP No.2 *Except* T2: 2x6 SP No.2 BOT CHORD 2x6 SP No.2 *Except* B2: 2x4 SP No.3, B4: 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, and 2-0-0 oc purlins (6-0-0 max.): D-E. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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REACTIONS. (lb/size) P=7305/0-4-0, H=6327/0-4-0
Max Horz P=290(LC 4)
Max Uplift P=479(LC 9), H=292(LC 8)
Max Grav P=8458(LC 2), H=7179(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-10039/655, B-C=-8953/564, C-D=-6611/495, D-E=-4205/378, E-F=-6441/500, F-G=-7306/417, A-P=-8173/540, G-H=-7114/385
BOT CHORD O-P=-49/415, N-O=-100/1750, B-N=-260/1363, N-Q=-637/6562, M-Q=-633/6467, M-R=-471/5825, R-S=-471/5825, L-S=-471/5825,
L-T=-312/4333, K-T=-312/4333, J-K=-110/2221, E-K=-339/4600, J-U=-43/815, U-V=-43/815, I-V=-43/815, I-W=-24/121, H-W=-24/121
WEBS B-M=-937/210, C-M=-244/3594, C-L=-2523/354, D-L=-400/5295, D-K=-532/165, I-K=-168/3987, F-K=-842/223, F-I=-60/1115, G-I=-223/4835,
A-N=-394/6437, N-P=-616/320

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc, 2x4 - 2 rows staggered at 0-5-0 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.
 - 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) P, H considers parallel to grain value using ANSITPI 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 479 lb uplift at joint P and 292 lb uplift at joint H.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSITPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use USP JL210IF-TZ (With 11-16d HDG nails into Girder & 6-10d x 1-1/2 HDG nails into Truss) or equivalent at 1-8-4 from the left end to connect truss(es) a2 (1 ply 2x10 SP) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
 - Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-7-4 from the left end to 15-7-4 to connect truss(es) a3 (1 ply 2x6 SP), a2 (1 ply 2x10 SP) to front face of bottom chord.
 - Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 17-7-4 from the left end to connect truss(es) a11 (1 ply 2x4 SP) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
 - Fill all nail holes where hanger is in contact with lumber.

Job 19081327	Truss B2	Truss Type HIP GIRDER	Qty 1	Ply 3	288 NC2015
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Job Reference (optional)
8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:29:44 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-D=-60, D-E=-60, E-G=-60, O-P=-20, K-N=-20, H-J=-20

Concentrated Loads (lb)

Vert: O=-1462(F) I=-1462(F) Q=-1461(F) R=-1461(F) S=-1461(F) T=-1461(F) U=-1462(F) V=-1462(F) W=-415(F)

Job 19081327	Truss C1	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 Jan 10 09:29:45 2020 Page 1
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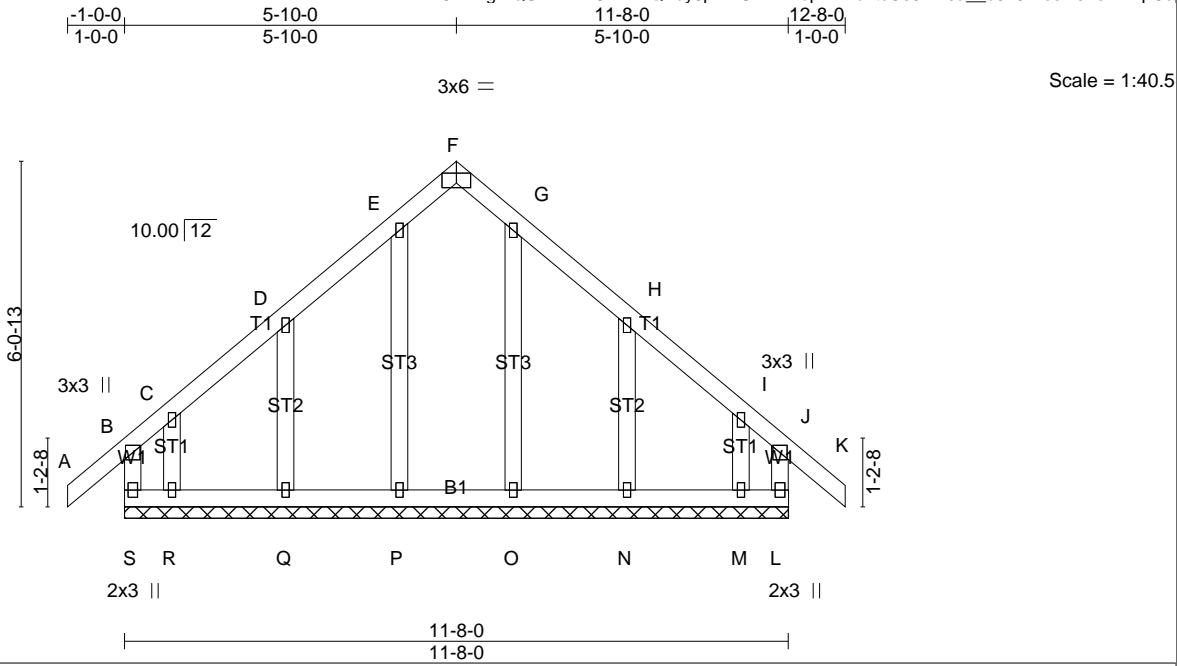


Plate Offsets (X,Y)-- [F:0-3-0,Edge]

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 0.17	Vert(LL) -0.00 K n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01 K n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 L n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R		Weight: 74 lb	FT = 20%

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

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

REACTIONS. (lb/size) S=130/11-8-0, L=130/11-8-0, P=159/11-8-0, Q=167/11-8-0, R=68/11-8-0, O=159/11-8-0, N=167/11-8-0, M=68/11-8-0
 Max Horz S=-177(LC 8)
 Max Uplift S=-126(LC 6), L=-107(LC 7), Q=-105(LC 10), R=-190(LC 10), N=-106(LC 11), M=-185(LC 11)
 Max Grav S=210(LC 18), L=195(LC 17), P=168(LC 17), Q=179(LC 17), R=209(LC 8), O=161(LC 18), N=182(LC 18), M=195(LC 9)

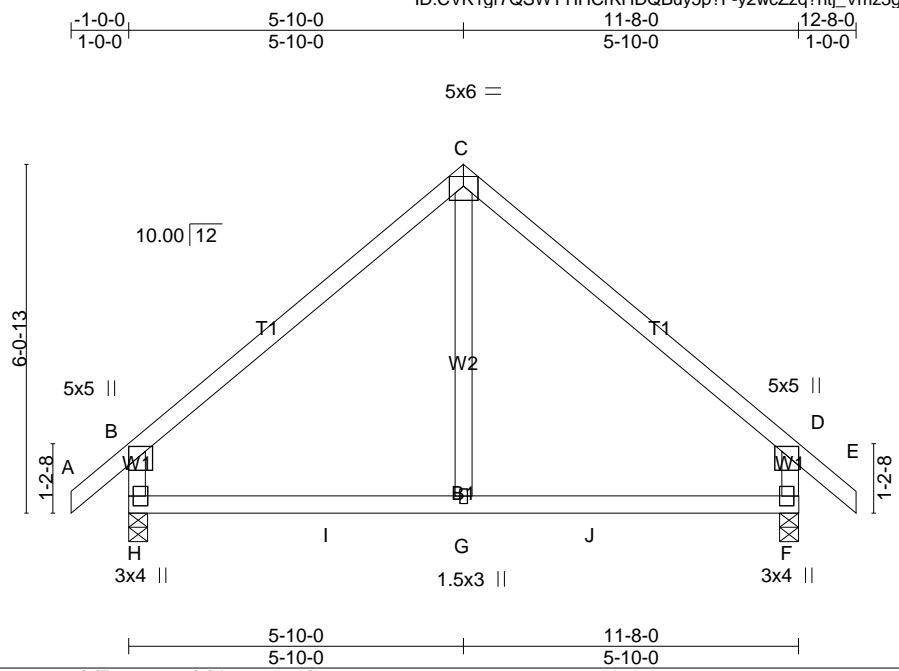
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD B-S=-155/89, A-B=0/44, B-C=-135/114, C-D=-76/77, D-E=-91/132, E-F=-92/113, F-G=-92/113, G-H=-91/132, H-I=-68/69, I-J=-128/98, J-K=0/44, J-L=-145/89
 BOT CHORD R-S=-90/127, Q-R=-90/127, P-Q=-90/127, O-P=-90/127, N-O=-90/127, M-N=-90/127, L-M=-90/127
 WEBS E-P=-127/11, D-Q=-174/145, C-R=-160/126, G-O=-120/3, H-N=-174/145, I-M=-160/123

- 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 126 lb uplift at joint S, 107 lb uplift at joint L, 105 lb uplift at joint Q, 190 lb uplift at joint R, 106 lb uplift at joint N and 185 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 19081327	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 Jan 10 09:29:46 2020 Page 1
 ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-y2wcZzq?ntj_Vmz3gd1t7CXdOTSm6EUriWCBbnzwpOZ



Scale = 1:40.1

Plate Offsets (X,Y)-- [B:0-2-8,0-1-12], [D:0-2-8,0-1-12], [F:0-2-0,0-0-8], [H:0-2-0,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(LL) -0.03 F-G >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Vert(CT) -0.06 F-G >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR	Horz(CT) 0.00 F n/a n/a		
	Code IRC2015/TPI2014			Weight: 55 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=524/0-4-0, F=524/0-4-0
 Max Horz H=-177(LC 8)
 Max Uplift H=-62(LC 10), F=-62(LC 11)
 Max Grav H=537(LC 17), F=537(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/44, B-C=-491/123, C-D=-491/123, D-E=0/44, B-H=-470/187, D-F=-471/187
 BOT CHORD H-I=-7/331, G-I=-7/331, G-J=-7/331, F-J=-7/331
 WEBS C-G=0/258

- 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) 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 62 lb uplift at joint H and 62 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 19081327	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
 ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-QET?nJqdYBrr6wYFDKY6IP4t2thrrU4?wAyIjEzwpOY
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:29:47 2020 Page 1

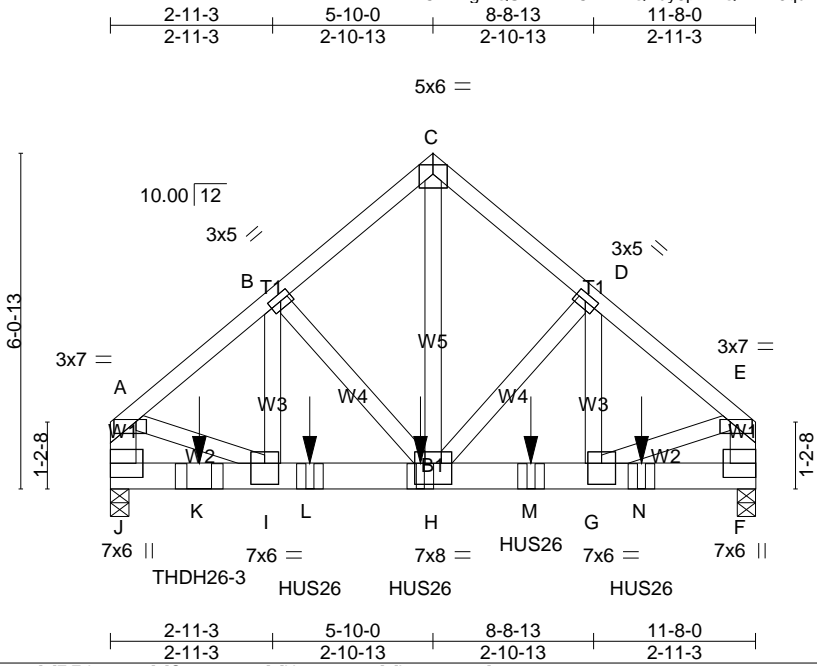


Plate Offsets (X,Y)-- [A:0-4-12,0-0-8], [E:0-4-12,0-0-8], [F:Edge,0-5-8], [G:0-3-0,0-4-8], [H:0-4-0,0-4-8], [I:0-3-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.04 G-H >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.06 G-H >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.01 F n/a n/a		
	Code IRC2015/TP12014			Weight: 179 lb	FT = 20%

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 5-9-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) J=4419/0-4-0, F=3830/0-4-0
 Max Horz J=-151(LC 4)
 Max Uplift J=-149(LC 8), F=-117(LC 9)
 Max Grav J=5381(LC 2), F=4523(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-4712/156, B-C=-3564/174, C-D=-3565/174, D-E=-4480/144, A-J=-4148/129, E-F=-4019/121
 BOT CHORD J-K=-150/621, I-K=-150/621, I-L=-126/3567, H-L=-126/3567, H-M=-66/3390, G-M=-66/3390, G-N=-26/389, F-N=-26/389
 WEBS C-H=-148/4327, D-H=-1004/123, D-G=-38/1253, B-H=-1270/136, B-I=-54/1600, A-I=-61/3135, E-G=-61/3193

- 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint J and 117 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.
 - Use USP THDH26-3 (With 20-16d nails into Girder & 8-16d nails into Truss) or equivalent at 1-7-4 from the left end to connect truss(es) A7 (3 ply 2x10 SP) to front face of bottom chord.
 - Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-7-4 from the left end to 9-7-4 to connect truss(es) A8 (1 ply 2x10 SP), A9 (1 ply 2x10 SP) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

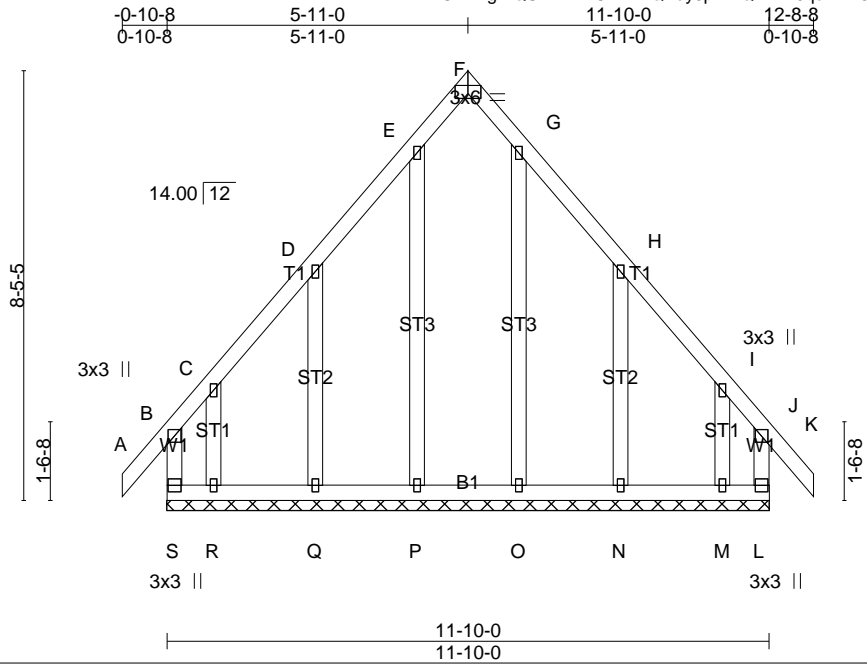
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-C=60, C-E=60, F-J=20
 Concentrated Loads (lb)
 Vert: H=-1383(F) K=-1846(F) L=-1383(F) M=-1370(F) N=-1370(F)

Job 19081327	Truss D1	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 Jan 10 09:29:47 2020 Page 1

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Scale = 1:45.3

Plate Offsets (X,Y)-- [F:Edge,0-1-14]

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 0.29	Vert(LL) -0.00 K n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.00 K n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 L n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-R		Weight: 92 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) S=118/11-10-0, L=118/11-10-0, P=156/11-10-0, Q=167/11-10-0, R=81/11-10-0, O=156/11-10-0, N=167/11-10-0, M=81/11-10-0
 Max Horz S=-253(LC 8)
 Max Uplift S=278(LC 8), L=-261(LC 9), Q=-172(LC 10), R=-351(LC 10), N=-173(LC 11), M=-346(LC 11)
 Max Grav S=364(LC 7), L=348(LC 6), P=191(LC 20), Q=196(LC 17), R=340(LC 8), O=189(LC 19), N=198(LC 18), M=328(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD B-S=-223/170, A-B=0/47, B-C=-249/214, C-D=-113/110, D-E=-148/236, E-F=-109/141, F-G=-109/141, G-H=-148/236, H-I=-105/103, I-J=-245/201, J-K=0/47, J-L=-212/170
 BOT CHORD R-S=-135/180, Q-R=-135/180, P-Q=-135/180, O-P=-135/180, N-O=-135/180, M-N=-135/180, L-M=-135/180
 WEBS E-P=-151/20, D-Q=-245/247, C-R=-234/217, G-O=-149/12, H-N=-245/247, I-M=-234/215

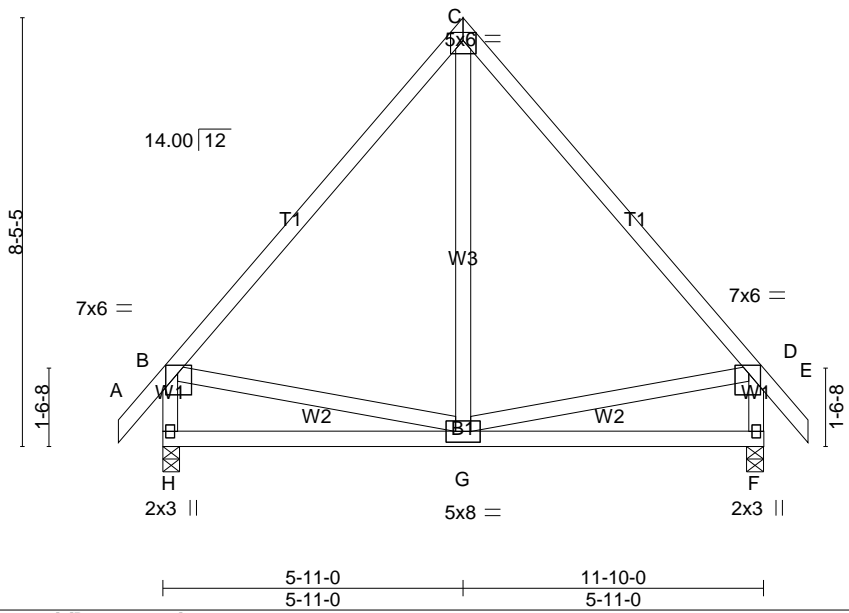
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end 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 278 lb uplift at joint S, 261 lb uplift at joint L, 172 lb uplift at joint Q, 351 lb uplift at joint R, 173 lb uplift at joint N and 346 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/TP1 1.

LOAD CASE(S) Standard

Job 19081327	Truss D2	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 Jan 10 09:29:48 2020 Page 1

ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-uQ1N_frFJUzik47Rn23LCdcyJH8ra8t89qhiGgzwpOX
 -0-10-8 5-11-0 11-10-0 12-8-8
 0-10-8 5-11-0 5-11-0 0-10-8



Scale = 1:45.4

Plate Offsets (X,Y)-- [B:0-2-12,0-2-0], [C:Edge,0-1-14], [D:0-2-12,0-2-0]

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 0.72 BC 0.29 WB 0.10 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) -0.02 G-H >999 240 Vert(CT) -0.05 G-H >999 180 Horz(CT) 0.00 F n/a n/a	PLATES GRIP MT20 244/190 Weight: 81 lb FT = 20%
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LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) H=523/0-4-0, F=523/0-4-0
 Max Horz H=-253(LC 8)
 Max Uplift H=-61(LC 11), F=-61(LC 10)

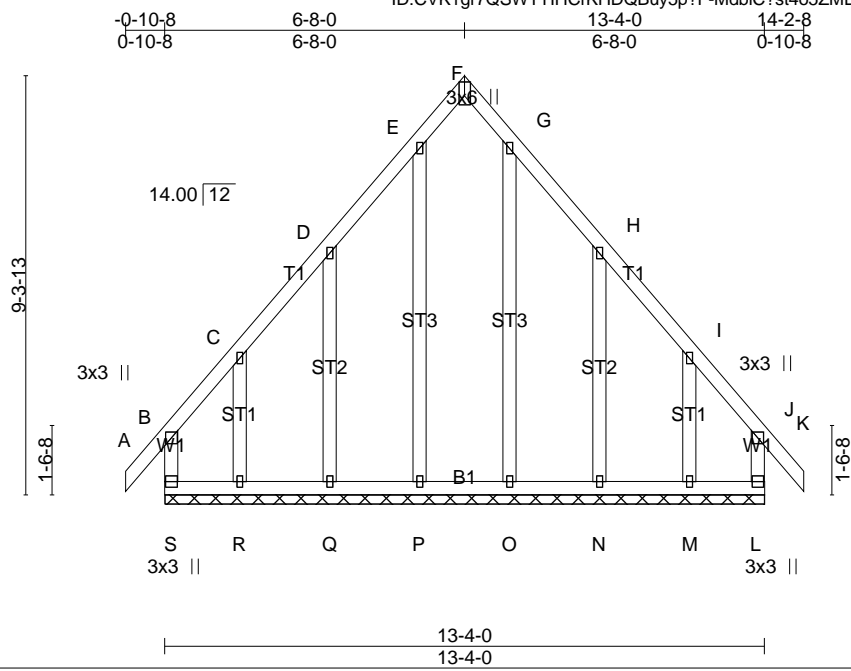
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/47, B-C=-419/159, C-D=-419/159, D-E=0/47, B-H=-471/175, D-F=-471/175
 BOT CHORD G-H=-289/363, F-G=-145/206
 WEBS C-G=-46/229, B-G=-154/293, D-G=-158/294

- 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) 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 61 lb uplift at joint H and 61 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 19081327	Truss E1	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
 ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-MdbIC?st4o5ZMDieLlaakq9E7hWVJZLHOURS06zwpOW
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:29:49 2020 Page 1



Scale = 1:51.2

Plate Offsets (X,Y)-- [F:Edge,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 0.29	Vert(LL) -0.00 K n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.00 K n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.00 L n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R			
				Weight: 106 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.

REACTIONS. (lb/size) S=136/13-4-0, L=136/13-4-0, P=156/13-4-0, Q=167/13-4-0, R=124/13-4-0, O=156/13-4-0, N=167/13-4-0, M=124/13-4-0
 Max Horz S=-276(LC 8)
 Max Uplift S=-175(LC 6), L=-163(LC 7), Q=-163(LC 10), R=-281(LC 10), N=-164(LC 11), M=-278(LC 11)
 Max Grav S=266(LC 18), L=256(LC 17), P=211(LC 20), Q=184(LC 17), R=292(LC 8), O=209(LC 19), N=186(LC 18), M=285(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD B-S=-203/134, A-B=0/47, B-C=-214/200, C-D=-112/114, D-E=-201/298, E-F=-128/163, F-G=-128/163, G-H=-201/298, H-I=-104/108, I-J=-204/188, J-K=0/47, J-L=-195/124
 BOT CHORD R-S=-145/172, Q-R=-145/172, P-Q=-145/172, O-P=-145/172, N-O=-145/172, M-N=-145/172, L-M=-145/172
 WEBS E-P=-192/55, D-Q=-241/242, C-R=-225/211, G-O=-192/55, H-N=-241/242, I-M=-225/210

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
- Truss designed for wind loads in the plane of the truss only.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint S, 163 lb uplift at joint L, 163 lb uplift at joint Q, 281 lb uplift at joint R, 164 lb uplift at joint N and 278 lb uplift at joint M.
- 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.

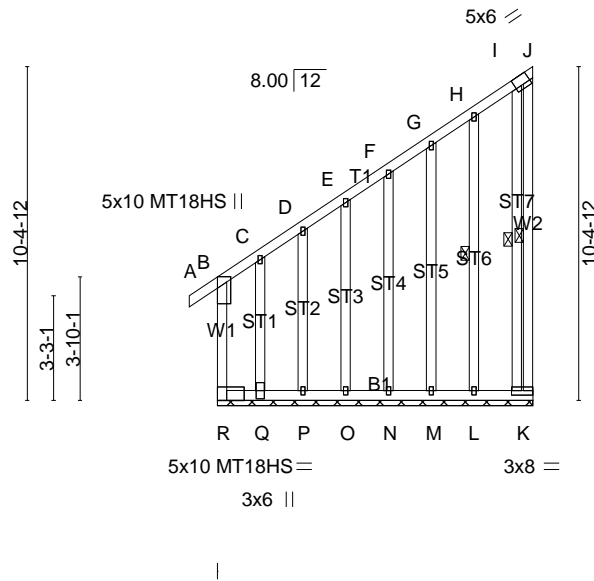
LOAD CASE(S) Standard

Job 19081327	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

Job Reference (optional)
8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:29:53 2020 Page 1

ID:Fazx0PE6omg97mmmf6JfPAyLY8d-FOrG2MvO81c_qr?PabfWvgKnpIIAFN7tJ6P3xtzwpOS
-0-10-8 9-10-0
0-10-8 9-10-0



Scale = 1:71.8

Plate Offsets (X,Y)-- [B:0-4-3,Edge], [I:0-2-2,0-0-0], [J:0-2-2,0-0-0], [J:0-2-5,Edge], [K:Edge,0-1-8], [R:0-6-8,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	Vert(LL) -0.00	A-B	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(CT) -0.00	A-B	n/r	90	MT18HS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Horz(CT) -0.00	K	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2015/TPI2014						Weight: 125 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.2	WEBS 1 Row at midpt J-K, H-L, I-K
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) R=131/9-10-0, K=66/9-10-0, Q=76/9-10-0, P=110/9-10-0, O=106/9-10-0, N=107/9-10-0, M=105/9-10-0, L=120/9-10-0
Max Horz R=382(LC 9)
Max Uplift R=613(LC 8), K=301(LC 9), Q=1014(LC 7), P=58(LC 6), O=59(LC 10), N=46(LC 10), M=79(LC 7), L=154(LC 6)
Max Grav R=970(LC 7), K=243(LC 8), Q=785(LC 8), P=195(LC 18), O=133(LC 17), N=107(LC 1), M=147(LC 17), L=343(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-R=-513/294, A-B=0/34, B-C=-443/286, C-D=-178/108, D-E=-190/119, E-F=-179/117, F-G=-164/127, G-H=-169/187, H-I=-191/130, I-J=-157/230, J-K=-477/324
BOT CHORD Q-R=-163/169, P-Q=-163/169, O-P=-163/169, N-O=-163/169, M-N=-163/169, L-M=-163/169, K-L=-163/169
WEBS C-Q=-354/476, D-P=-84/32, E-O=-87/59, F-N=-91/65, G-M=-110/92, H-L=-172/63, I-K=-478/663

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) All plates are MT20 plates unless otherwise indicated.
- 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) Bearing at joint(s) R considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 613 lb uplift at joint R, 301 lb uplift at joint K, 1014 lb uplift at joint Q, 58 lb uplift at joint P, 59 lb uplift at joint O, 46 lb uplift at joint N, 79 lb uplift at joint M and 154 lb uplift at joint L.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

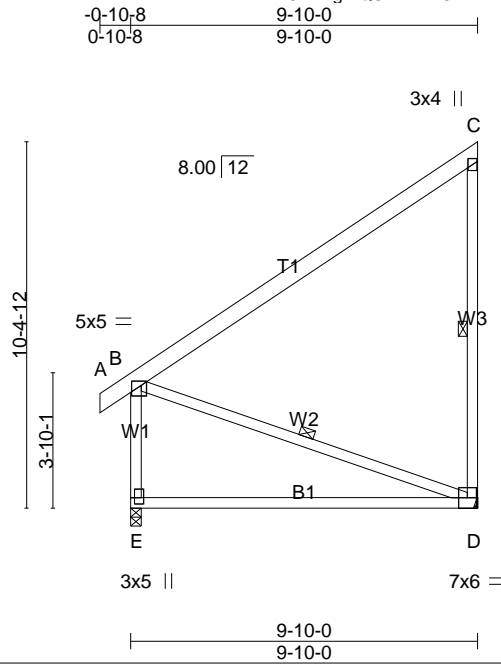
LOAD CASE(S) Standard

Job 19081327	Truss H2	Truss Type MONOPITCH	Qty 5	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 Jan 10 09:29:54 2020 Page 1

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Scale = 1:65.3

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

LOADING (psf) TCLL 20.0 TCDL 10.0 BCDL 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 0.64 BC 0.89 WB 0.18 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) -0.32 D-E >360 240 Vert(CT) -0.63 D-E >183 180 Horz(CT) -0.00 D n/a n/a	PLATES GRIP MT20 244/190 Weight: 79 lb FT = 20%
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LUMBER- TOP CHORD 2x6 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 *Except* W1: 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 7-2-13 oc bracing. WEBS 1 Row at midpt C-D, B-D
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REACTIONS. (lb/size) E=446/0-3-8, D=378/Mechanical
Max Horz E=222(LC 7)
Max Uplift D=240(LC 10)
Max Grav E=446(LC 1), D=442(LC 17)

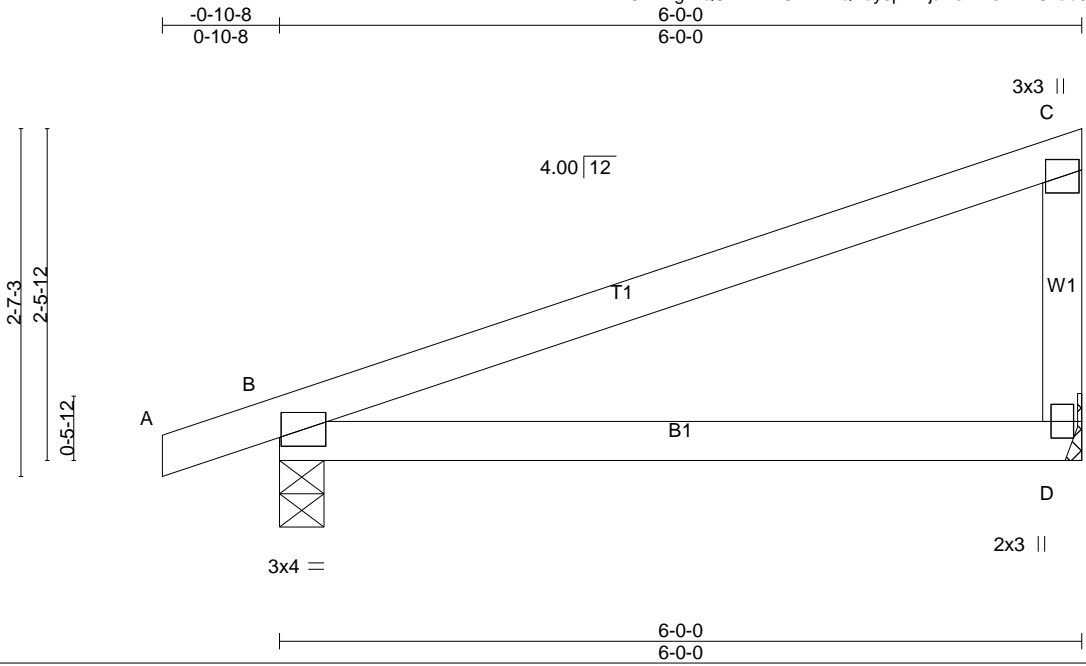
FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/34, B-C=-226/136, C-D=-287/198, B-E=-347/0
BOT CHORD D-E=-385/346
WEBS B-D=-352/408

- 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 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 240 lb uplift at joint D.
 - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 19081327	Truss J1	Truss Type Monopitch	Qty 6	Ply 1	288 NC2015
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-jaPeFiwOvKkrS?ab8lAlRus3_iB0_t_1Xm8dTKzwpOR
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:29:54 2020 Page 1



Scale = 1:17.2

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 0.41 BC 0.31 WB 0.00 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) 0.04 D-G >999 240 Vert(CT) -0.08 D-G >852 180 Horz(CT) 0.01 B n/a n/a	PLATES GRIP MT20 244/190 Weight: 23 lb FT = 20%
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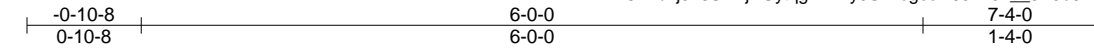
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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REACTIONS. (lb/size) D=230/Mechanical, B=291/0-4-0
 Max Horz B=93(LC 9)
 Max Uplift D=49(LC 10), B=73(LC 6)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/17, B-C=-127/40, C-D=-148/110
 BOT CHORD B-D=-23/74

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint D and 73 lb uplift at joint B.
 - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Scale = 1:17.7

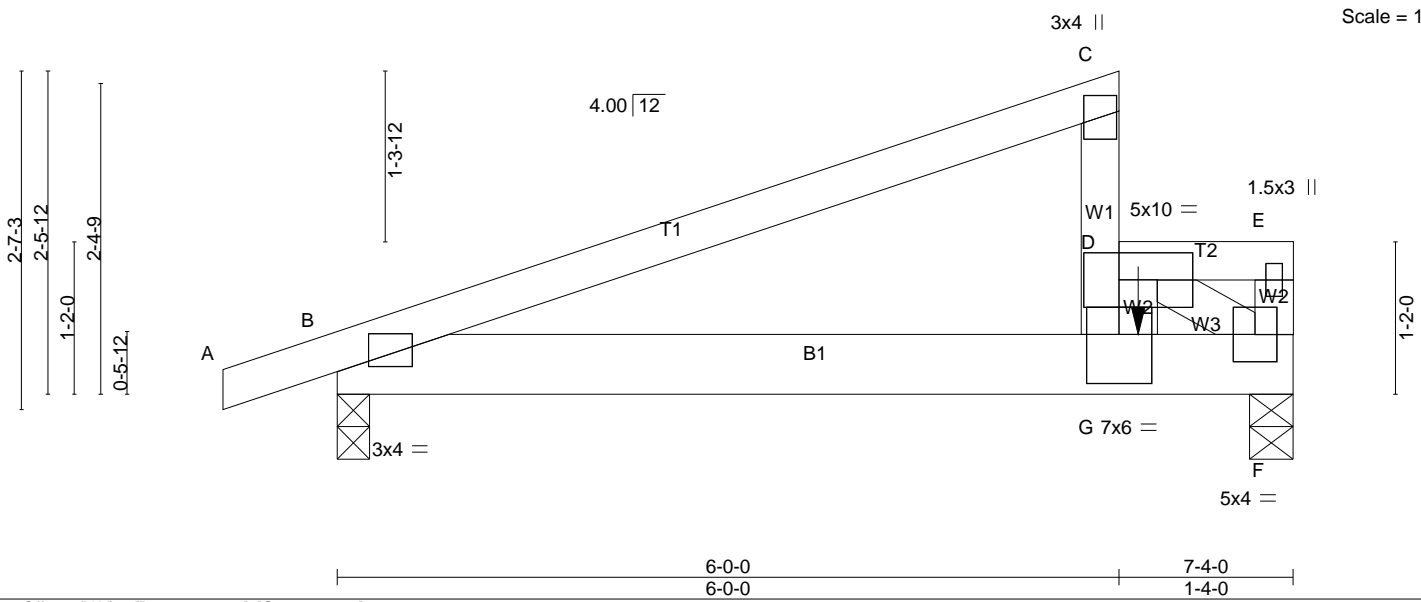


Plate Offsets (X,Y)-- [B:0-2-15,0-0-8], [G:0-3-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) -0.03 G-J >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.07 G-J >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.00 F n/a n/a		
	Code IRC2015/TP12014			Weight: 70 lb	FT = 20%

<p>LUMBER-</p> <p>TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 *Except* W1: 2x4 SP No.1</p>	<p>BRACING-</p> <p>TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); D-G, D-E. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.</p>
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REACTIONS. (lb/size) B=713/0-3-0, F=1906/0-4-0
 Max Horz B=126(LC 8)
 Max Uplift B=147(LC 4), F=344(LC 8)
 Max Grav B=713(LC 1), F=2020(LC 15)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/17, B-C=-1119/191, D-G=-218/1525, C-D=0/133, D-E=-221/45, E-F=-231/46
 BOT CHORD B-G=-208/1066, F-G=-395/2274
 WEBS D-F=-2460/438

- NOTES-**
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) 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.
 - 3) Unbalanced roof live loads have been considered for this design.
 - 4) 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; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 5) Provide adequate drainage to prevent water ponding.
 - 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 147 lb uplift at joint B and 344 lb uplift at joint F.
 - 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/TP1 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2254 lb down and 366 lb up at 6-1-12 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, D-E=60, F-H=20
 Concentrated Loads (lb)
 Vert: G=2000(F)

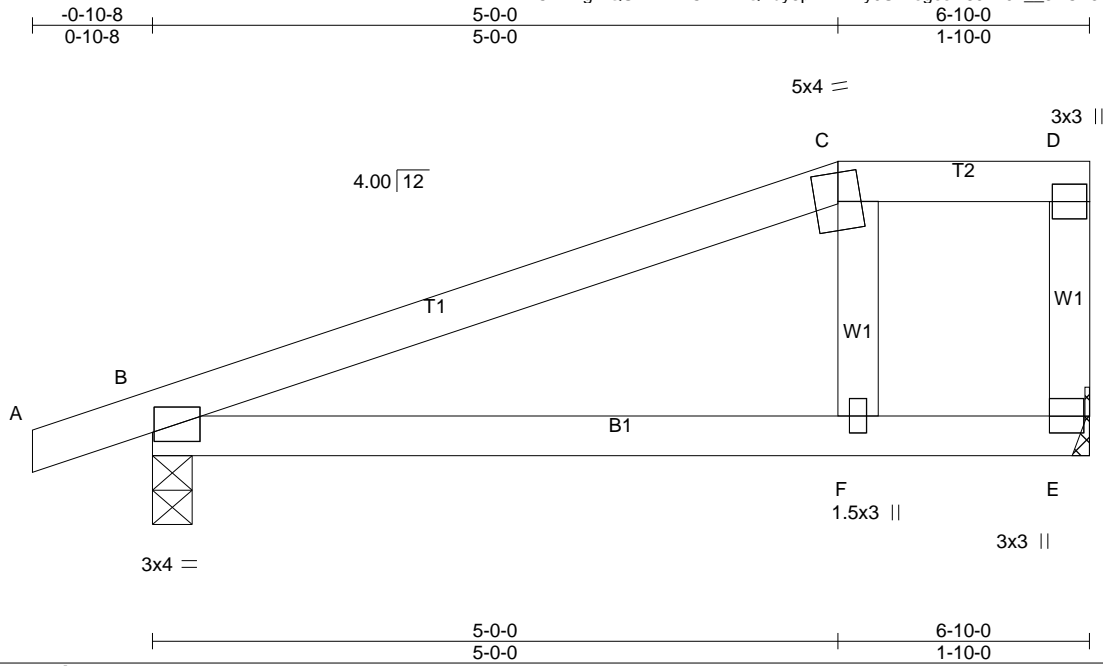


Plate Offsets (X,Y)-- [E:0-1-8,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(LL) -0.05 F-I >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.11 F-I >743 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.01 B n/a n/a		
	Code IRC2015/TPI2014			Weight: 27 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, and 2-0-0 oc purlins (6-0-0 max.): C-D.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) E=264/Mechanical, B=323/0-3-8
 Max Horz E=81(LC 9)
 Max Uplift E=-51(LC 6), B=-81(LC 6)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/17, B-C=-195/72, C-D=-146/93, D-E=-121/55
 BOT CHORD B-F=0/151, E-F=0/146
 WEBS C-F=-66/94

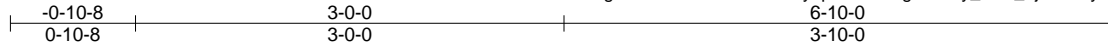
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint E and 81 lb uplift at joint B.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 19081327	Truss J3	Truss Type Half Hip Girder	Qty 1	Ply 1	288 NC2015 Job Reference (optional)
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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 Jan 10 09:29:56 2020 Page 1
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Scale: 3/4"=1'

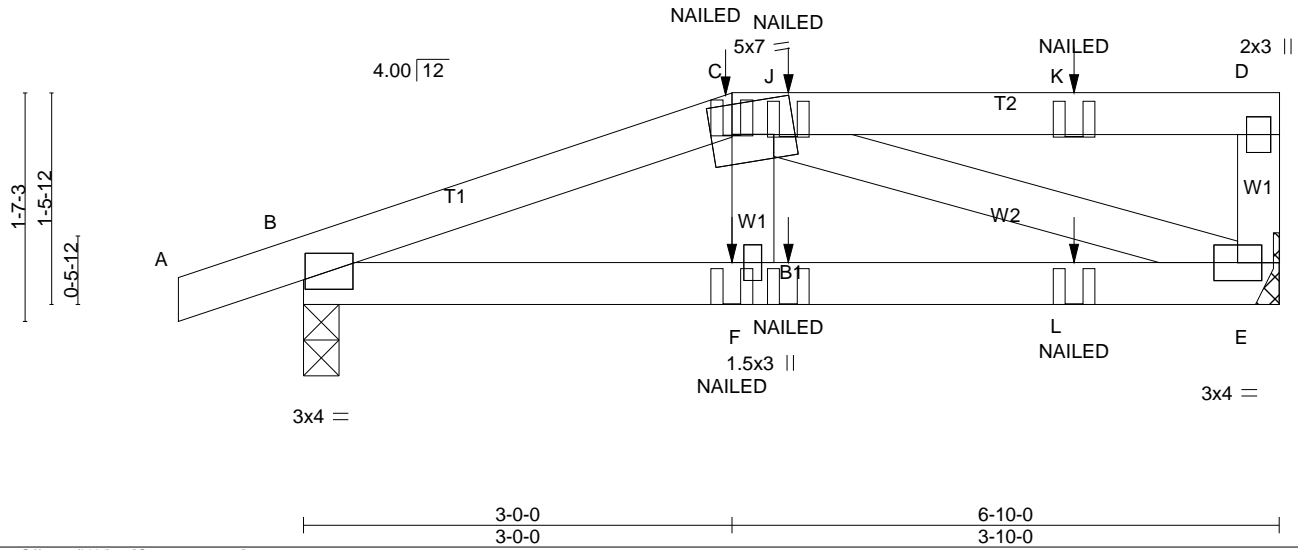


Plate Offsets (X,Y)-- [C:0-1-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) -0.01 E-F >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Vert(CT) -0.02 E-F >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.01 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 30 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, and 2-0-0 oc purlins (6-0-0 max.): C-D.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) E=320/Mechanical, B=365/0-3-0
Max Horz B=53(LC 7)
Max Uplift E=-48(LC 5), B=-82(LC 4)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/17, B-C=-540/70, C-J=-62/23, J-K=-62/23, D-K=-62/23, D-E=-127/54
BOT CHORD B-F=-74/486, F-L=-67/497, E-L=-67/497
WEBS C-F=0/161, C-E=-457/51

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint E and 82 lb uplift at joint B.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

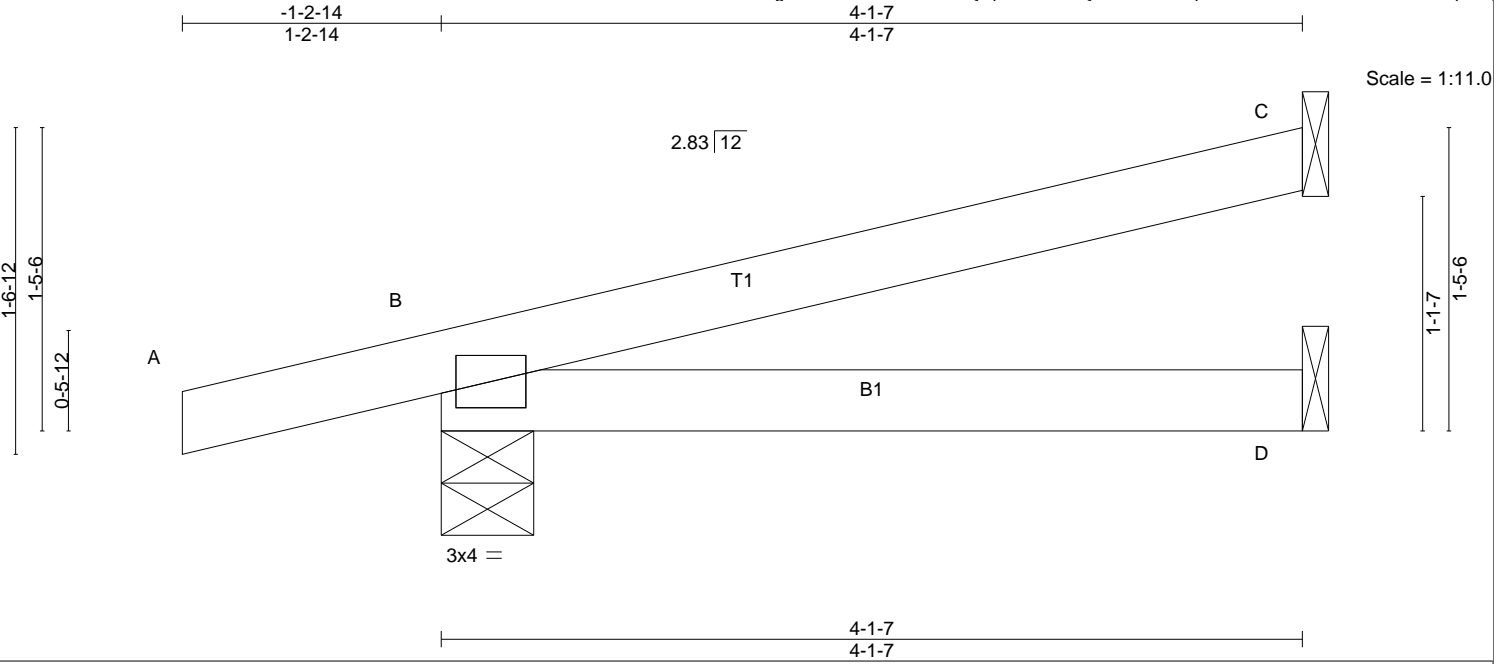
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-D=-60, E-G=-20
Concentrated Loads (lb)
Vert: C=-18(B) F=-36(B) J=-14(B) K=-14(B) L=-16(B)

Job 19081327	Truss J4	Truss Type Diagonal Hip Girder	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 Jan 10 09:29:57 2020 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) -0.01 D-G >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.02 D-G >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 C n/a n/a		
	Code IRC2015/TPI2014			Weight: 14 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) C=102/Mechanical, B=248/0-5-5, D=48/Mechanical
 Max Horz B=52(LC 6)
 Max Uplift C=-44(LC 10), B=-80(LC 6)
 Max Grav C=102(LC 1), B=248(LC 1), D=73(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/17, B-C=-27/19
 BOT CHORD B-D=0/0

- 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 44 lb uplift at joint C and 80 lb uplift at joint B.
 - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

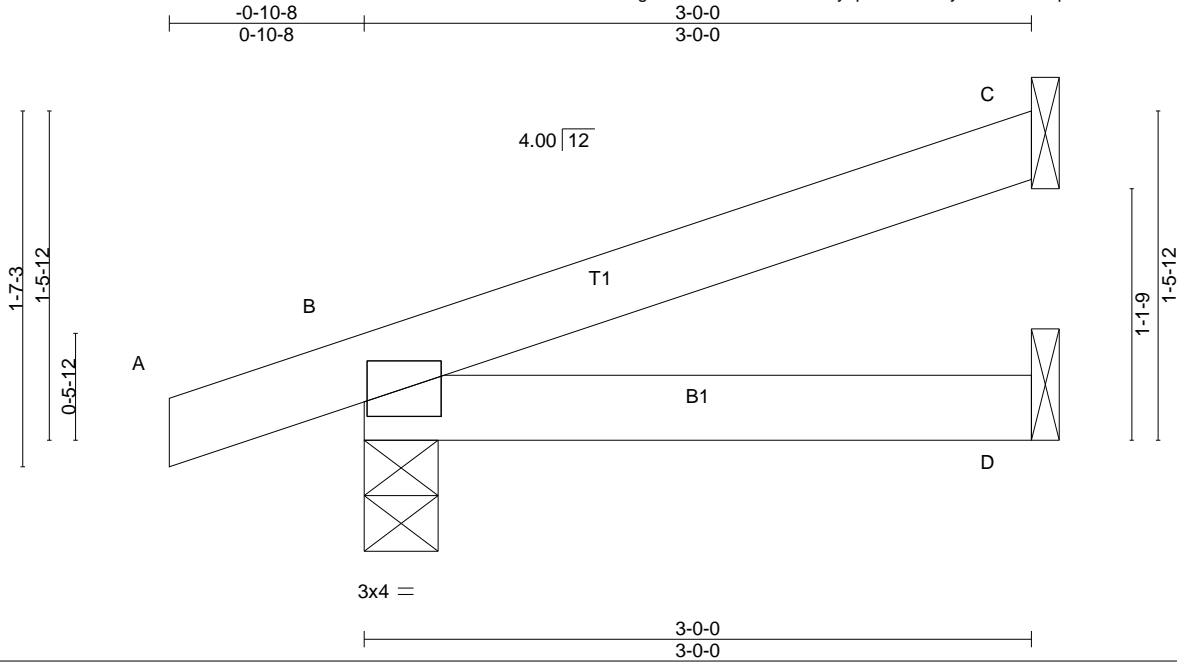
LOAD CASE(S) Standard

Job 19081327	Truss J5	Truss Type Jack-Open	Qty 2	Ply 1	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 Jan 10 09:29:57 2020 Page 1

ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-794mtkyuCF6QJSJApRkS3WUf0vGJBekTEkNH4fzwpOO



Scale = 1:10.4

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 0.11	Vert(LL) -0.00 D-G >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.01 D-G >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 B n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 11 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 3-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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REACTIONS. (lb/size) C=74/Mechanical, B=178/0-4-0, D=36/Mechanical
Max Horz B=53(LC 6)
Max Uplift C=35(LC 10), B=52(LC 6)
Max Grav C=74(LC 1), B=178(LC 1), D=53(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/17, B-C=-29/19
BOT CHORD B-D=0/0

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint C and 52 lb uplift at joint B.
 - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 19081327	Truss K1	Truss Type Common	Qty 4	Ply 1	288 NC2015
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UFP Mid Atlats LLC, 5631 S. NC 62, Burlington, NC, Rob Ferber
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:01 2020 Page 1
 ID:Fazx0PE6omg97mnmf6JfPAyLY8d-0wKHj5?PFUcso3cx2GoODMf8dWVt7wR38MLUDQzwpOK

-0-10-8	7-10-8	14-8-0	21-5-8	29-4-0	30-2-8
0-10-8	7-10-8	6-9-8	6-9-8	7-10-8	0-10-8

Scale = 1:52.0

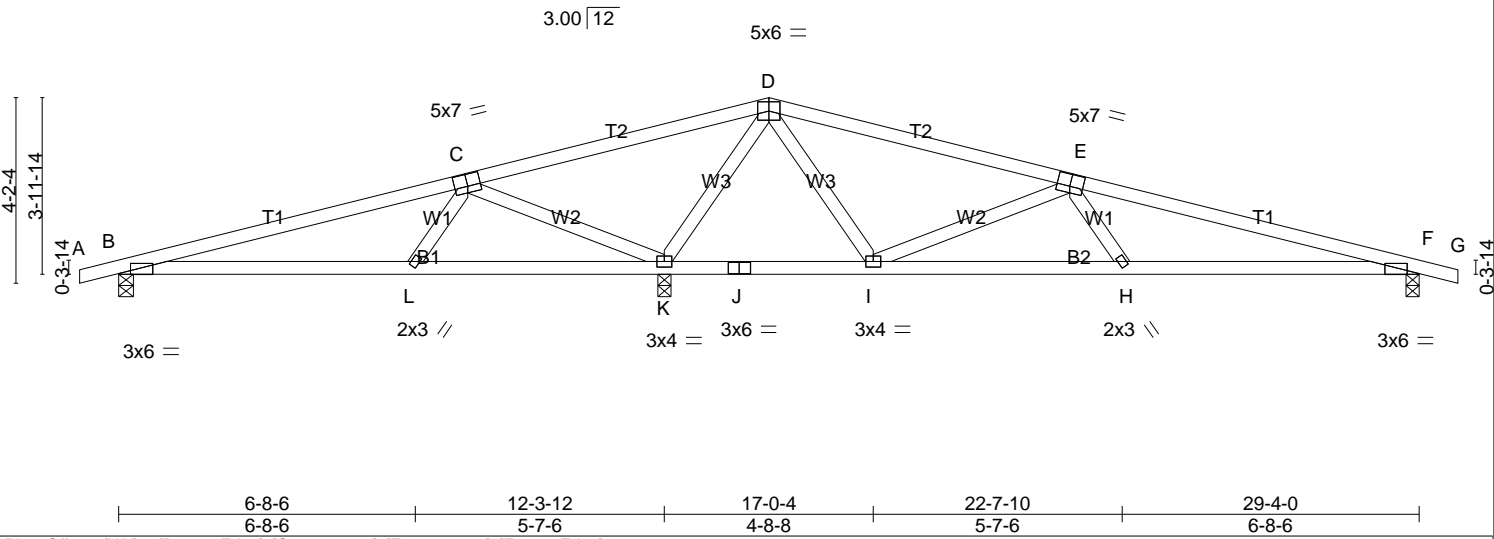


Plate Offsets (X,Y)-- [B:0-3-4,Edge], [C:0-3-8,0-3-4], [E:0-3-8,0-3-4], [F:0-3-4,Edge]

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 0.90	Vert(LL) -0.09 H-R >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.19 H-R >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	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=297/0-4-0, K=1600/0-3-8, F=554/0-3-8
 Max Horz B=65(LC 14)
 Max Uplift B=103(LC 6), K=161(LC 6), F=140(LC 7)
 Max Grav B=370(LC 21), K=1600(LC 1), F=584(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/13, B-C=-348/295, C-D=-196/1092, D-E=-166/125, E-F=-1203/262, F-G=0/13
 BOT CHORD B-L=-266/310, K-L=-362/195, J-K=-319/136, I-J=-319/136, H-I=-225/1027, F-H=-192/1140
 WEBS D-I=-83/586, E-I=-1008/337, E-H=0/327, D-K=-1300/340, C-K=-1023/340, C-L=0/332

- 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 103 lb uplift at joint B, 161 lb uplift at joint K and 140 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 19081327	Truss K2	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 Jan 10 09:30:05 2020 Page 1
 ID:Fazx0PE6omg97mnmf6JfPAyLY8d-UiZoZT2vJj6lGhwilH6tKOCpy8yZ3qYe3zJiIMBzwpOG

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

Scale = 1:51.9

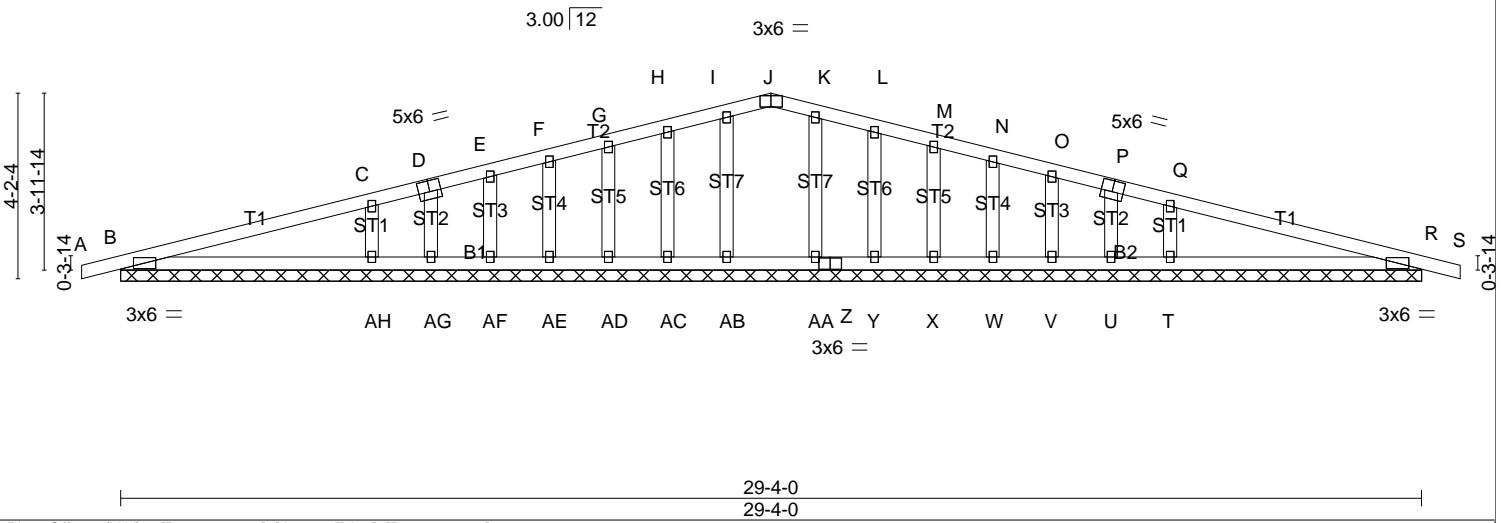


Plate Offsets (X,Y)-- [D:0-3-0,0-3-0], [J:0-3-0,Edge], [P:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) 0.01 S n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) 0.03 S n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 R n/a n/a		
	Code IRC2015/TP12014			Weight: 137 lb	FT = 20%

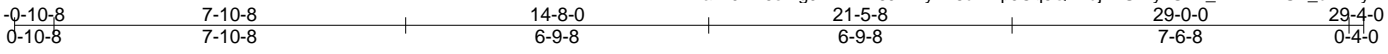
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3	BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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REACTIONS. (lb/size) B=240/29-4-0, AB=140/29-4-0, AC=95/29-4-0, AD=111/29-4-0, AE=93/29-4-0, AF=170/29-4-0, AG=174/29-4-0, AH=552/29-4-0, AA=140/29-4-0, Y=95/29-4-0, X=111/29-4-0, W=93/29-4-0, V=170/29-4-0, U=174/29-4-0, T=552/29-4-0, R=240/29-4-0
 Max Horz B=65(LC 10)
 Max Uplift B=59(LC 6), AB=3(LC 10), AC=-29(LC 6), AD=-22(LC 10), AE=-22(LC 6), AF=-32(LC 10), AG=-174(LC 1), AH=-114(LC 10), Y=-32(LC 7), X=-21(LC 11), W=-22(LC 7), V=-32(LC 11), U=-174(LC 1), T=-114(LC 11), R=66(LC 7)
 Max Grav B=240(LC 1), AB=140(LC 1), AC=99(LC 21), AD=111(LC 1), AE=93(LC 21), AF=170(LC 1), AG=32(LC 10), AH=552(LC 1), AA=140(LC 1), Y=99(LC 22), X=111(LC 1), W=93(LC 22), V=170(LC 1), U=32(LC 11), T=552(LC 1), R=240(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/11, B-C=-72/59, C-D=-54/58, D-E=-19/60, E-F=-27/69, F-G=-31/76, G-H=-36/91, H-I=-41/107, I-J=-47/115, J-K=-47/115, K-L=-41/107, L-M=-36/91, M-N=-31/76, N-O=-27/62, O-P=-16/44, P-Q=-54/47, Q-R=-50/42, R-S=0/11
 BOT CHORD B-AH=-12/54, AG-AH=-12/54, AF-AG=-10/54, AE-AF=-10/54, AD-AE=-10/54, AC-AD=-10/54, AB-AC=-10/54, AA-AB=-10/54, Z-AA=-10/54, Y-Z=-10/54, X-Y=-10/54, W-X=-10/54, V-W=-10/54, U-V=-10/54, T-U=-12/55, R-T=-12/55
 WEBS I-AB=-104/24, H-AC=-76/52, G-AD=-82/44, F-AE=-74/42, E-AF=-115/61, D-AG=-37/99, C-AH=-377/185, K-AA=-104/20, L-Y=-76/52, M-X=-82/44, N-W=-74/42, O-V=-115/61, P-U=-37/99, Q-T=-377/185

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) 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
 - 3) Truss designed for wind loads in the plane of the truss only.
 - 4) All plates are 2x3 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint B, 3 lb uplift at joint AB, 29 lb uplift at joint AC, 22 lb uplift at joint AD, 22 lb uplift at joint AE, 32 lb uplift at joint AF, 174 lb uplift at joint AG, 114 lb uplift at joint AH, 32 lb uplift at joint Y, 21 lb uplift at joint X, 22 lb uplift at joint W, 32 lb uplift at joint V, 174 lb uplift at joint U, 114 lb uplift at joint T and 66 lb uplift at joint R.
 - 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.

LOAD CASE(S) Standard



Scale = 1:51.6

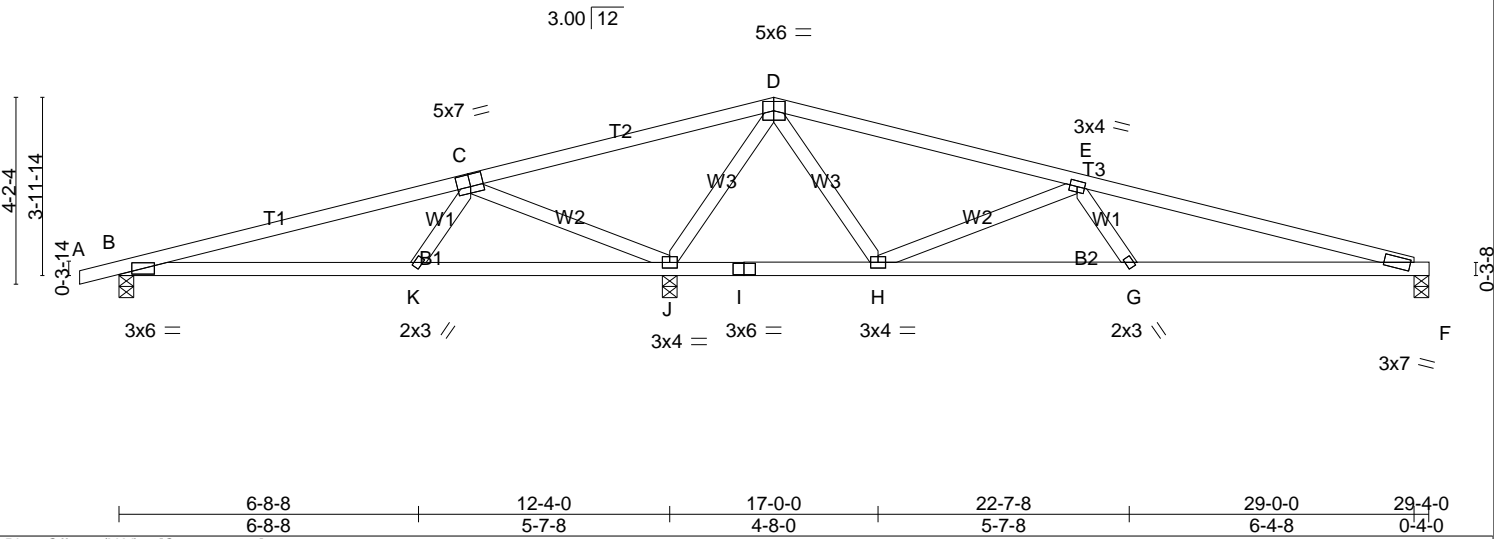


Plate Offsets (X,Y)-- [C:0-3-8,0-3-4]

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 0.89	Vert(LL) -0.08 G-M >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.16 G-M >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.02 F n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH			
				Weight: 122 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) F=502/0-4-0, B=309/0-4-0, J=1578/0-4-0, F=502/0-4-0
Max Horz B=69(LC 10)
Max Uplift F=-104(LC 11), B=-103(LC 6), J=-161(LC 6)
Max Grav F=532(LC 22), B=376(LC 21), J=1578(LC 1), F=502(LC 1)

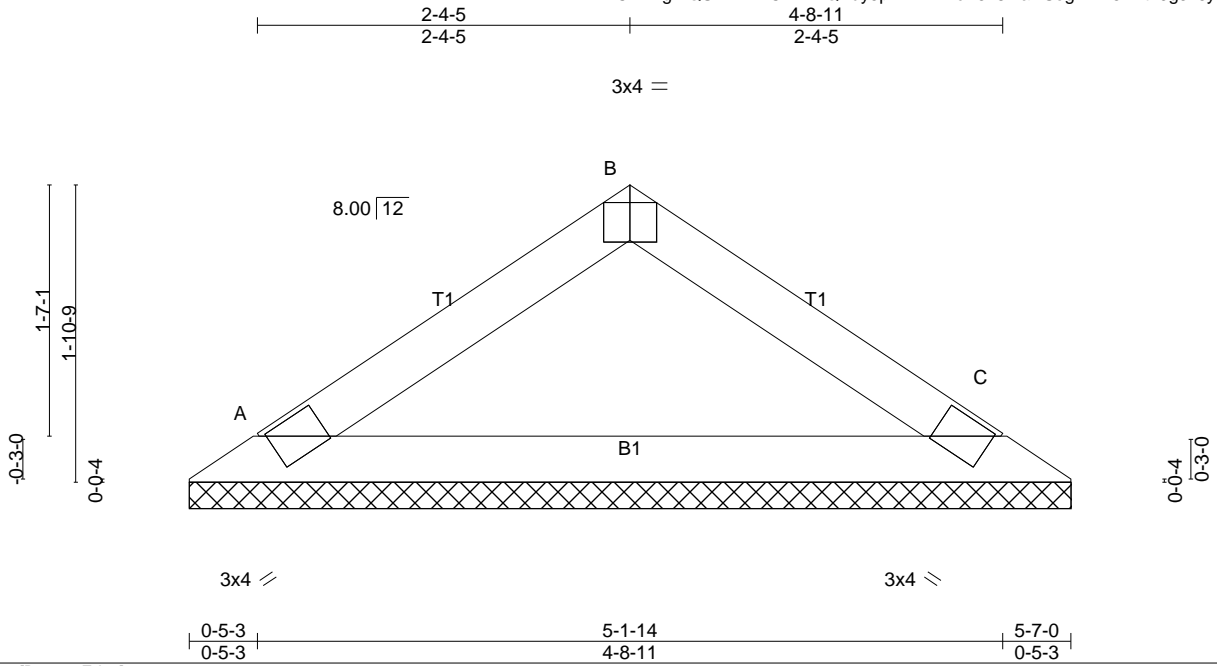
FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/13, B-C=-371/251, C-D=-193/1047, D-E=-185/117, E-F=-1195/262
BOT CHORD B-K=-223/333, J-K=-318/219, I-J=-295/119, H-I=-295/119, G-H=-233/1021, F-G=-202/1130
WEBS D-H=-84/578, E-H=-983/336, E-G=0/320, D-J=-1273/338, C-J=-1026/341, C-K=0/332

- 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 104 lb uplift at joint F, 103 lb uplift at joint B, 161 lb uplift at joint J and 104 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 19081327	Truss PA1	Truss Type Piggyback	Qty 12	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 Jan 10 09:30:10 2020 Page 1
 ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-FIMhcA628FlaNSog4fTV5FXth9g3k6yNDF0T1OzwpOB



Scale = 1:14.6

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 5-7-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=187/5-7-0, C=187/5-7-0
 Max Horz A=-39(LC 8)
 Max Uplift A=-20(LC 10), C=-20(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-181/66, B-C=-181/66
 BOT CHORD A-C=-13/133

- 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 19081327	Truss PA2	Truss Type PIGGYBACK	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 Jan 10 09:30:11 2020 Page 1

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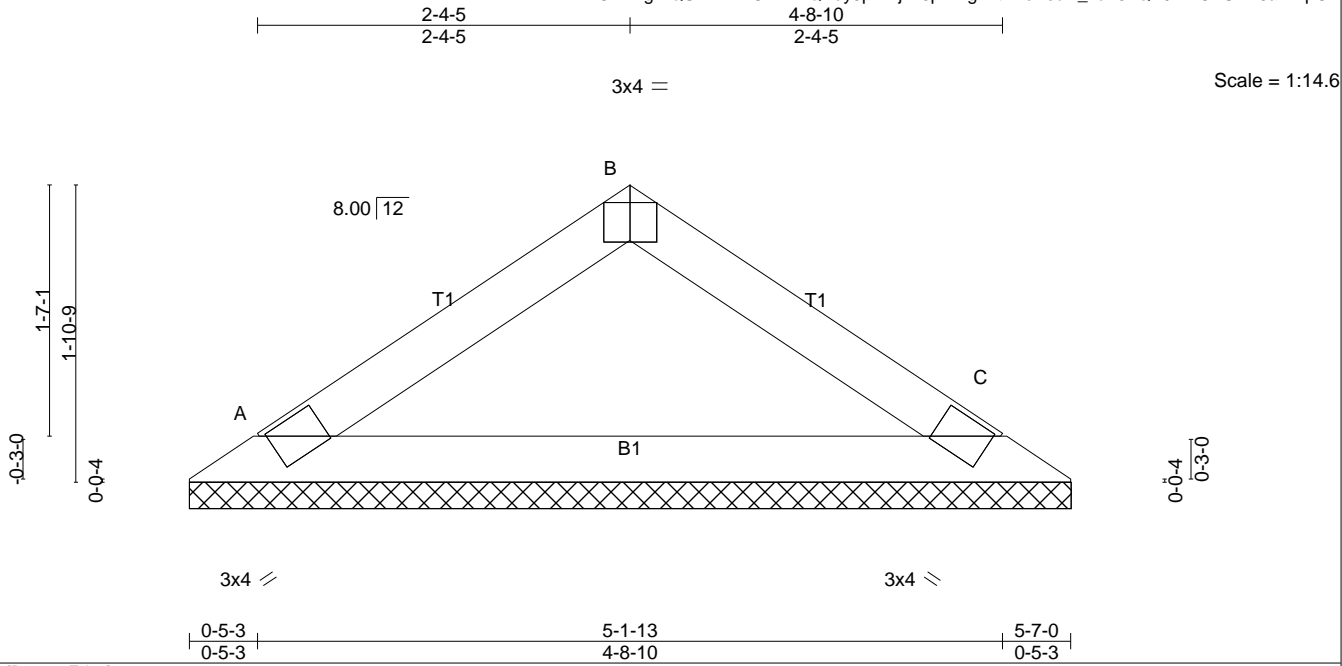


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

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 5-7-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=187/5-7-0, C=187/5-7-0
 Max Horz A=-39(LC 6)
 Max Uplift A=-20(LC 10), C=-20(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-181/66, B-C=-181/66
 BOT CHORD A-C=-13/133

- 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 19081327	Truss PA3	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
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:11 2020 Page 1
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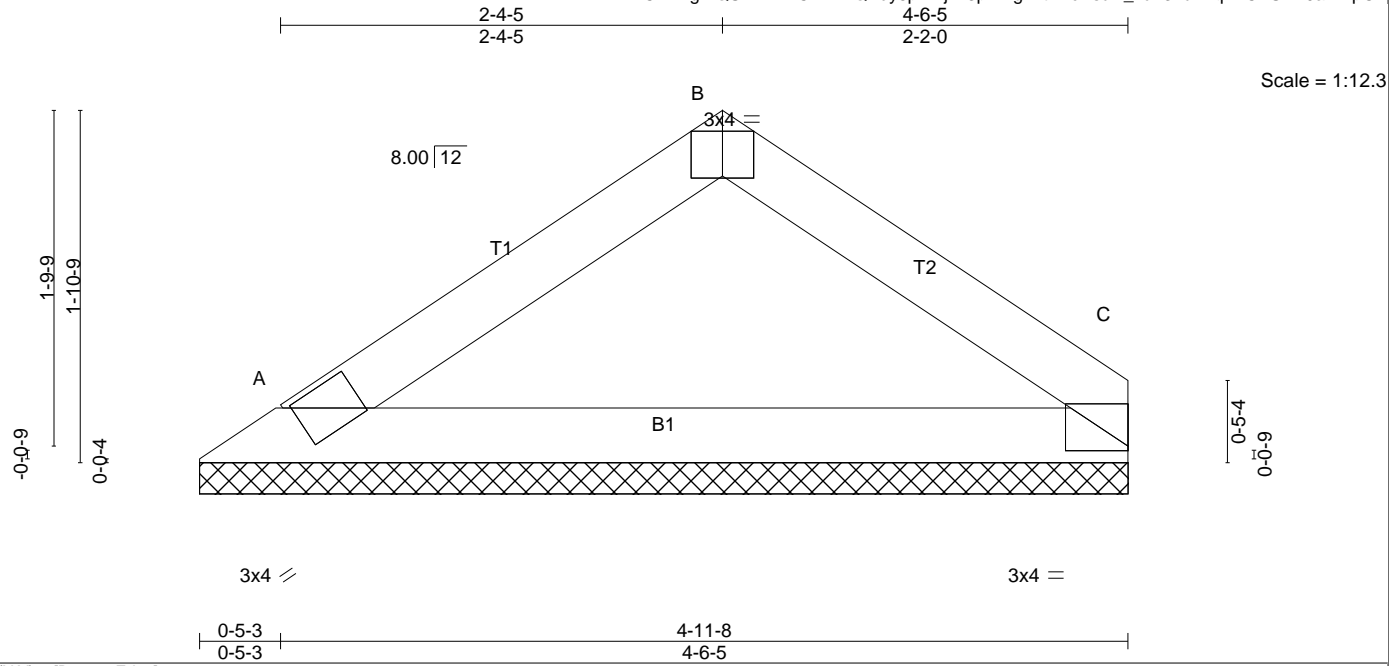


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	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: 16 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 4-11-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=180/4-11-8, C=180/4-11-8
 Max Horz A=39(LC 7)
 Max Uplift A=-20(LC 10), C=-18(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-148/66, B-C=-151/68
 BOT CHORD A-C=-19/98

- 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 19081327	Truss PA4	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 Jan 10 09:30:12 2020 Page 1
 ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-B2UR1s8lgs?lcmY3B4VzAgcDNyLbC0SggZVa6HzwpO9

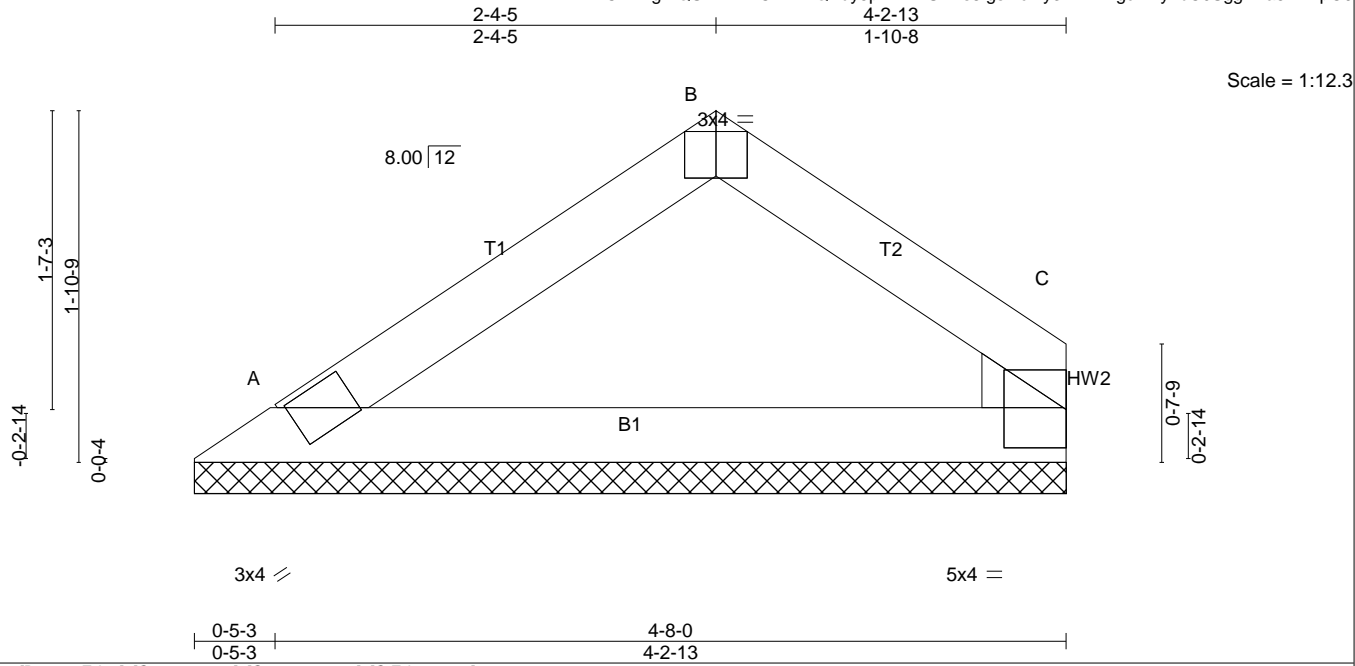


Plate Offsets (X,Y)-- [B:0-2-0,Edge], [C:0-0-1,0-0-1], [C:0-3-11,0-0-2], [C:Edge,0-2-9]

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 0.10	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.22	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: 15 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE
 Right: 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=169/4-8-0, C=169/4-8-0
 Max Horz A=-39(LC 8)
 Max Uplift A=-19(LC 10), C=-15(LC 11)

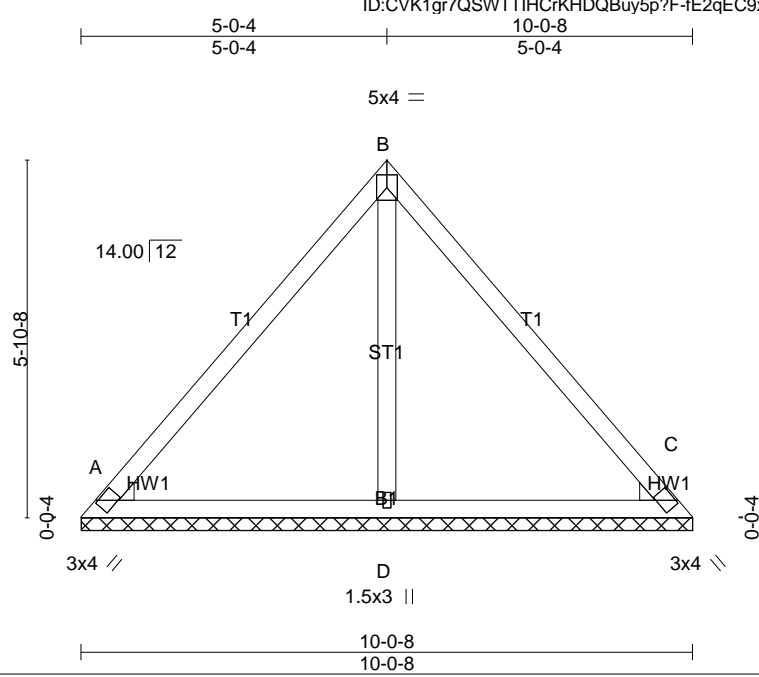
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-133/58, B-C=-139/62
 BOT CHORD A-C=-16/86

- 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 19081327	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
 ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-IE2qEC9xRA79EvXFlo0Cju9L_MgrxSCqvDF7ejzwpO8
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:13 2020 Page 1



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 0.30	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 C n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 45 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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

REACTIONS. (lb/size) A=213/10-0-7, C=213/10-0-7, D=329/10-0-7
 Max Horz A=-142(LC 6)
 Max Uplift A=-38(LC 11), C=-24(LC 10), D=-25(LC 10)

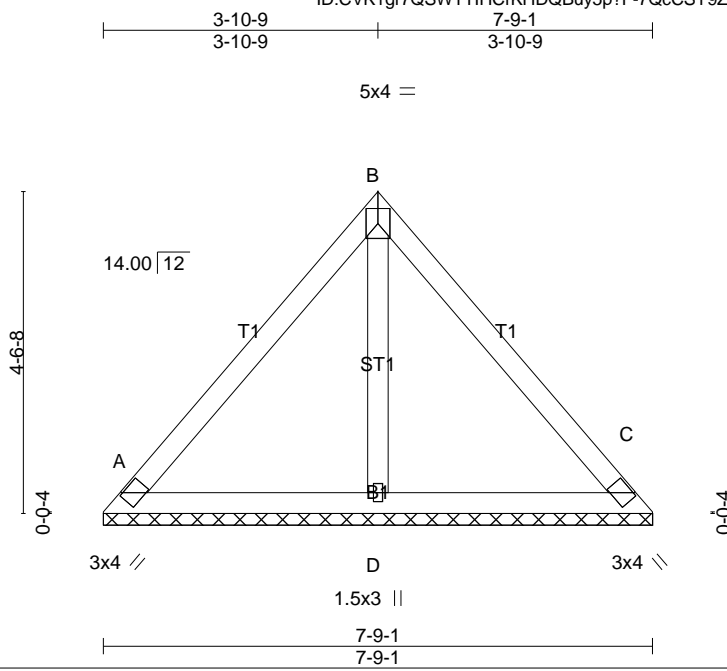
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-204/99, B-C=-187/84
 BOT CHORD A-D=-47/101, C-D=-47/101
 WEBS B-D=-163/45

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) 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
 - 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 38 lb uplift at joint A, 24 lb uplift at joint C and 25 lb uplift at joint D.
 - 6) Non Standard bearing condition. Review required.
 - 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 19081327	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
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:14 2020 Page 1
 ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-7QcCSY9ZBUF0s36RJVXRf5hYnm2ugwFz8t_gAAzwp07



Scale = 1:32.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	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: 34 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=162/7-9-1, C=162/7-9-1, D=249/7-9-1
 Max Horz A=108(LC 7)
 Max Uplift A=-28(LC 11), C=-18(LC 10), D=-19(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-154/75, B-C=-141/67
 BOT CHORD A-D=-36/77, C-D=-36/77
 WEBS B-D=-123/37

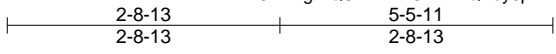
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end 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 28 lb uplift at joint A, 18 lb uplift at joint C and 19 lb uplift at joint D.
 - 6) Non Standard bearing condition. Review required.
 - 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 19081327	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
 8,320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:15 2020 Page 1

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3x4 =

Scale = 1:23.1

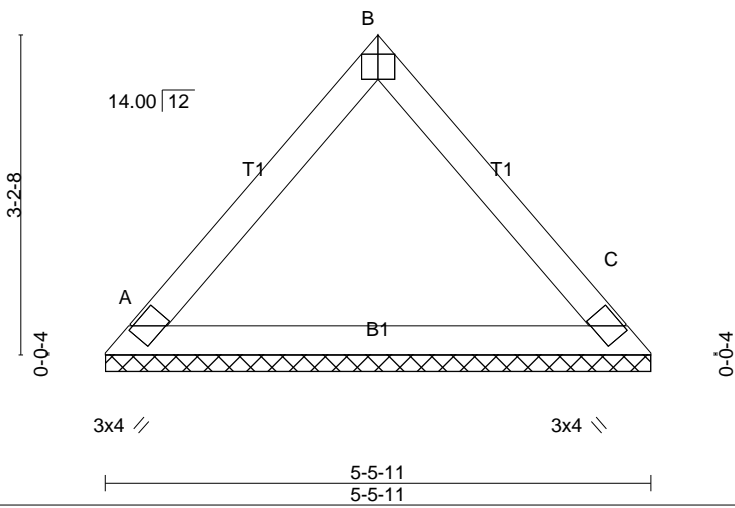


Plate Offsets (X,Y)-- [B:Edge,0-3-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	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 0.00	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: 20 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 5-6-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=195/5-5-10, C=195/5-5-10
 Max Horz A=-73(LC 6)
 Max Uplift A=-19(LC 11), C=-19(LC 10)

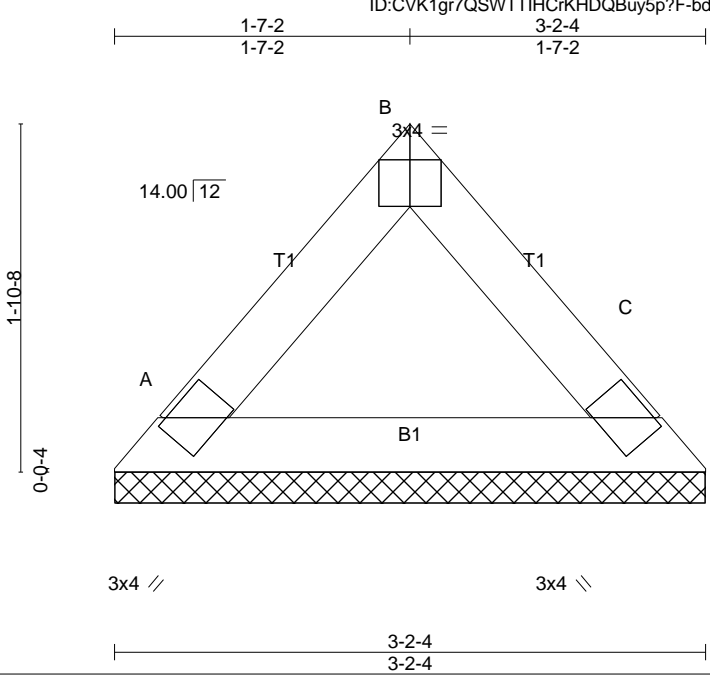
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-151/69, B-C=-151/69
 BOT CHORD A-C=-14/95

- 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 19 lb uplift at joint A and 19 lb uplift at joint C.
 - 6) Non Standard bearing condition. Review required.
 - 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 19081327	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
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:15 2020 Page 1
 ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-bdAafuABynNITDhdsD2goJEIXAPZPNB6MXkEjczwpO6



Scale = 1:12.4

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

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 0.08	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: 11 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 3-2-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=103/3-2-3, C=103/3-2-3
 Max Horz A=-39(LC 6)
 Max Uplift A=-10(LC 11), C=-10(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-75/36, B-C=-75/36
 BOT CHORD A-C=-11/42

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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) 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 10 lb uplift at joint A and 10 lb uplift at joint C.
 - 6) Non Standard bearing condition. Review required.
 - 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.

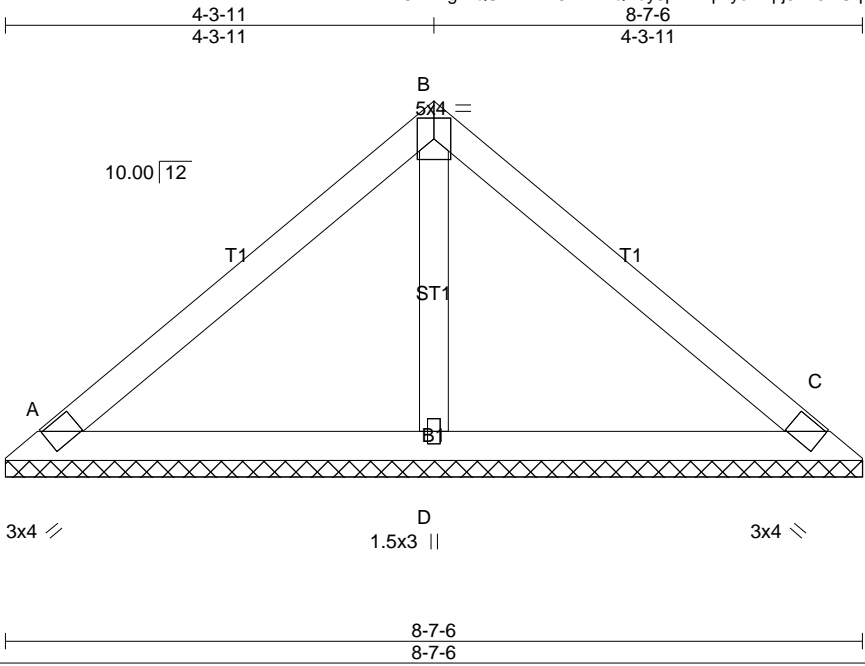
LOAD CASE(S) Standard

Job 19081327	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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8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:16 2020 Page 1



Scale = 1:23.2

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		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 33 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=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-**
- 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 23 lb uplift at joint A, 33 lb uplift at joint C and 15 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 19081327	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-4pkysEBpj5Vk5NGqQwZvKWnvcZkV8qRGbBTnF2zwpO5
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:16 2020 Page 1

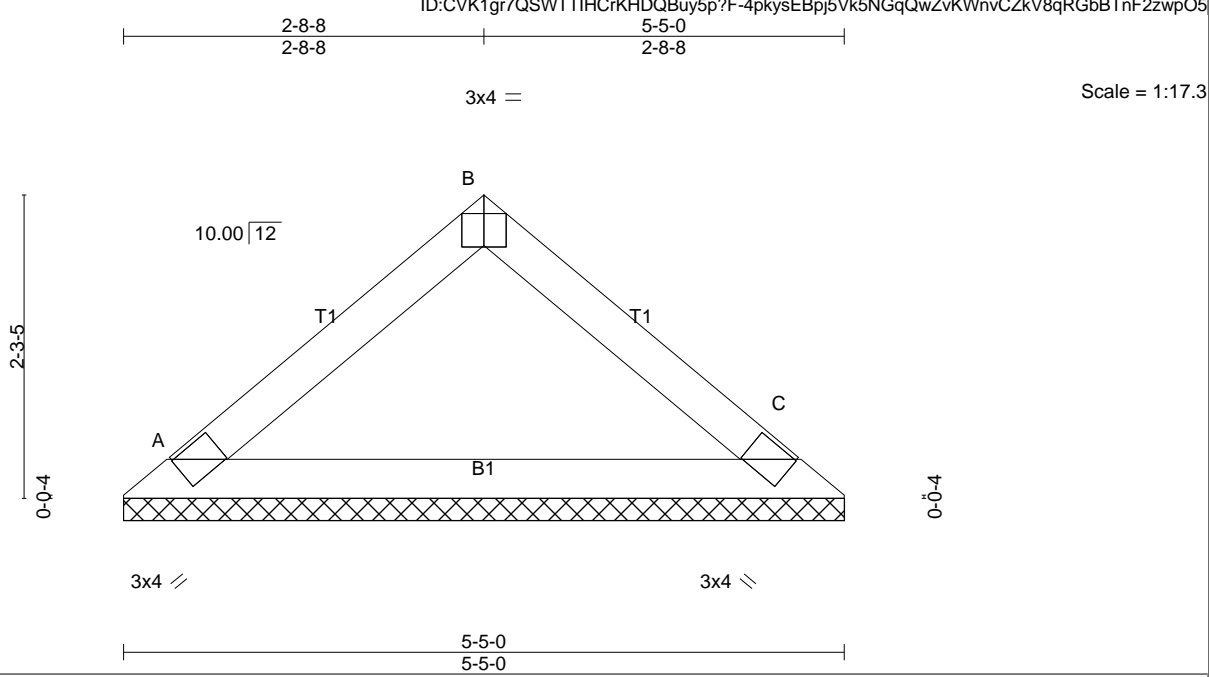


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	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)

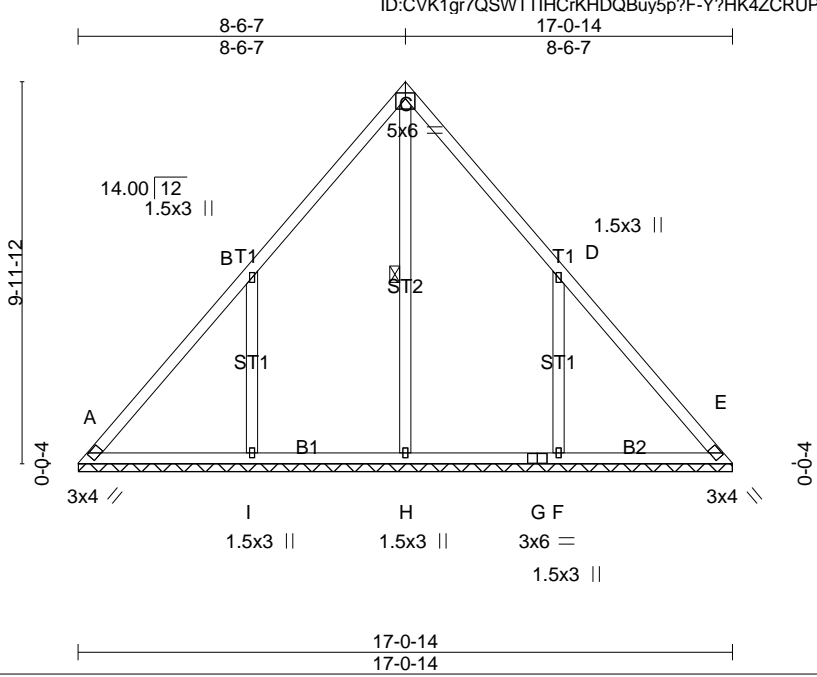
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-162/61, B-C=-162/61
 BOT CHORD A-C=-6/110

- 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

Job 19081327	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
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:17 2020 Page 1
 ID:CVK1gr7QSWTTIHCrKHDQBuy5p?F-Y?HK4ZCRUPdbjXr0_d58tkJ1Xz3QIEcPqrDKnUzwpO4



Scale = 1:60.1

Plate Offsets (X,Y)-- [C:Edge,0-1-14]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	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 0.20	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.01 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 91 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	WEBS 1 Row at midpt C-H

REACTIONS. (lb/size) A=176/17-0-13, E=176/17-0-13, H=181/17-0-13, I=392/17-0-13, F=392/17-0-13
 Max Horz A=-248(LC 6)
 Max Uplift A=-50(LC 6), E=-14(LC 7), I=-338(LC 10), F=-338(LC 11)
 Max Grav A=231(LC 18), E=210(LC 20), H=369(LC 20), I=535(LC 17), F=535(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-254/199, B-C=-188/173, C-D=-188/168, D-E=-226/151
 BOT CHORD A-I=-136/222, H-I=-136/222, G-H=-136/222, F-G=-136/222, E-F=-136/222
 WEBS C-H=-160/57, B-I=-430/363, D-F=-430/363

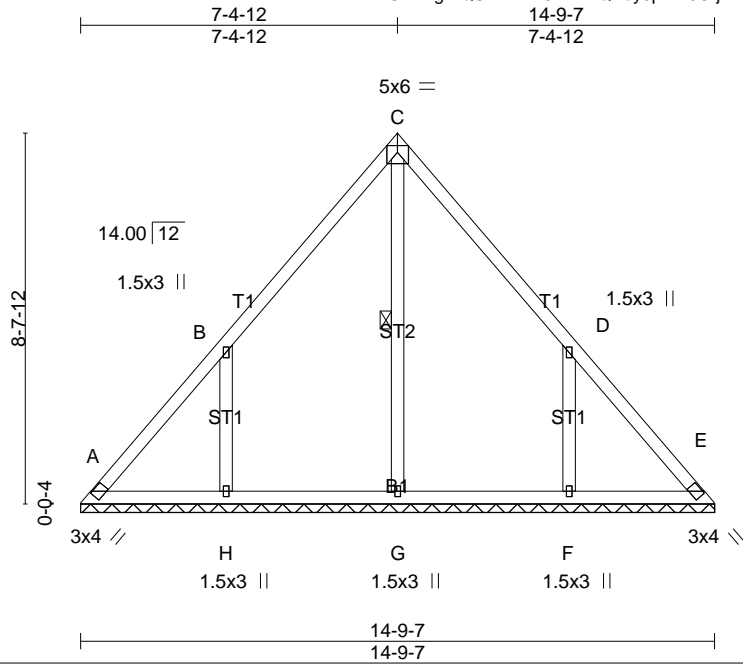
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end 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 50 lb uplift at joint A, 14 lb uplift at joint E, 338 lb uplift at joint I and 338 lb uplift at joint F.
 - 6) Non Standard bearing condition. Review required.
 - 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 19081327	Truss V9	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 Jan 10 09:30:18 2020 Page 1

ID:CVK1gr7QSWTTIHCrKHDQBBuy5p?F-0CrjHvC3FiIRKhQCYLcNQxsC6NPWcjOZ3VyuJxzwPO3



Scale = 1:53.7

Plate Offsets (X,Y)-- [C:Edge,0-1-14]

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 0.19 WB 0.10 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 E n/a n/a	PLATES GRIP MT20 244/190 Weight: 77 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. WEBS 1 Row at midpt C-G
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REACTIONS. (lb/size) A=136/14-9-6, E=136/14-9-6, G=203/14-9-6, H=330/14-9-6, F=330/14-9-6
 Max Horz A=-214(LC 6)
 Max Uplift A=-57(LC 6), E=-26(LC 7), H=-290(LC 10), F=-289(LC 11)
 Max Grav A=189(LC 18), E=174(LC 20), G=361(LC 20), H=466(LC 17), F=466(LC 18)

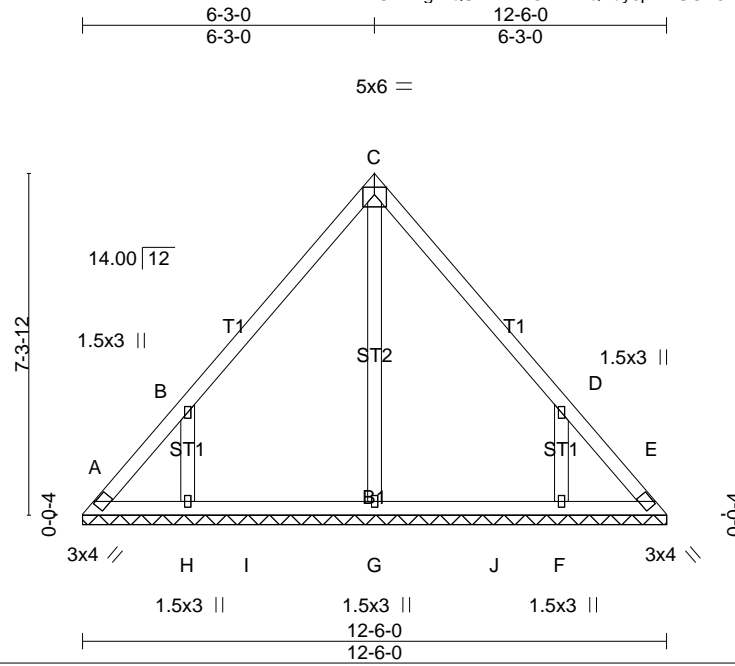
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-233/175, B-C=-184/151, C-D=-169/147, D-E=-206/134
 BOT CHORD A-H=-105/182, G-H=-105/182, F-G=-105/182, E-F=-105/182
 WEBS C-G=-145/15, B-H=-382/322, D-F=-382/322

- 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 57 lb uplift at joint A, 26 lb uplift at joint E, 290 lb uplift at joint H and 289 lb uplift at joint F.
 - 6) Non Standard bearing condition. Review required.
 - 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 19081327	Truss V10	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-UOP5VFDh00tlyq_P527cy9PN4ni3LANiH9iRsNzwpO2
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:19 2020 Page 1



Scale = 1:49.3

Plate Offsets (X,Y)-- [C:Edge,0-1-14]

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 0.20	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00 E n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 62 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=80/12-5-15, E=80/12-5-15, G=211/12-5-15, H=290/12-5-15, F=290/12-5-15
 Max Horz A=-179(LC 6)
 Max Uplift A=-84(LC 8), E=-57(LC 9), H=-260(LC 10), F=-260(LC 11)
 Max Grav A=165(LC 10), E=148(LC 11), G=331(LC 20), H=388(LC 17), F=388(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-225/163, B-C=-181/129, C-D=-163/125, D-E=-203/128
 BOT CHORD A-H=-77/144, H-I=-77/144, G-I=-77/144, G-J=-77/144, F-J=-77/144, E-F=-77/144
 WEBS C-G=-128/0, B-H=-362/316, D-F=-362/316

- 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 84 lb uplift at joint A, 57 lb uplift at joint E, 260 lb uplift at joint H and 260 lb uplift at joint F.
 - 6) Non Standard bearing condition. Review required.
 - 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.

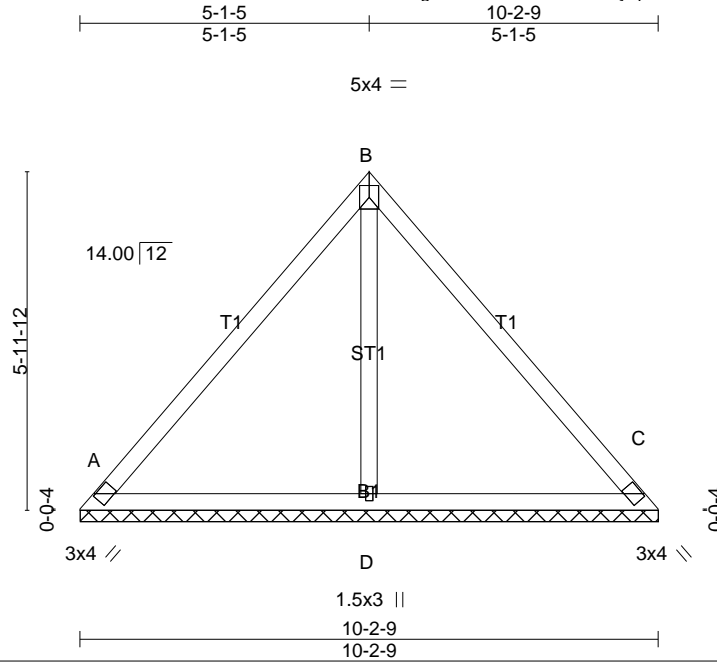
LOAD CASE(S) Standard

Job 19081327	Truss V11	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 Jan 10 09:30:19 2020 Page 1

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Scale = 1:40.7

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 0.31 BC 0.29 WB 0.10 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: 45 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=217/10-2-9, C=217/10-2-9, D=335/10-2-9
Max Horz A=-145(LC 6)
Max Uplift A=-38(LC 11), C=-25(LC 10), D=-26(LC 10)

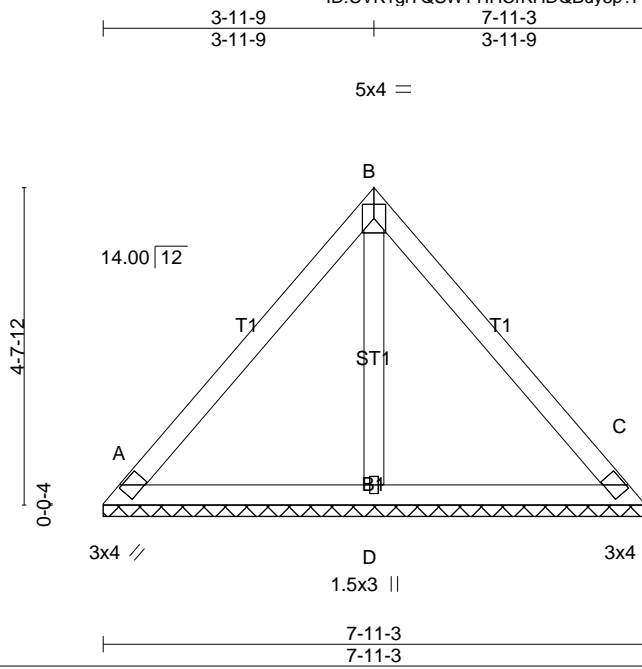
FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-207/101, B-C=-190/85
BOT CHORD A-D=-48/103, C-D=-48/103
WEBS B-D=-166/45

- 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 38 lb uplift at joint A, 25 lb uplift at joint C and 26 lb uplift at joint D.
 - 6) Non Standard bearing condition. Review required.
 - 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 19081327	Truss V12	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-yazTibEKrK?9a_ZbfmerVMxZ7B5A4ehsWpR?OpzwpO1
 8.320 s Nov 19 2019 MiTek Industries, Inc. Fri Jan 10 09:30:20 2020 Page 1



Scale = 1:33.7

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 0.05	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: 35 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=166/7-11-2, C=166/7-11-2, D=255/7-11-2
 Max Horz A=-110(LC 8)
 Max Uplift A=-29(LC 11), C=-19(LC 10), D=-20(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-158/77, B-C=-145/68
 BOT CHORD A-D=-37/78, C-D=-37/78
 WEBS B-D=-126/38

- 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 29 lb uplift at joint A, 19 lb uplift at joint C and 20 lb uplift at joint D.
 - 6) Non Standard bearing condition. Review required.
 - 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.

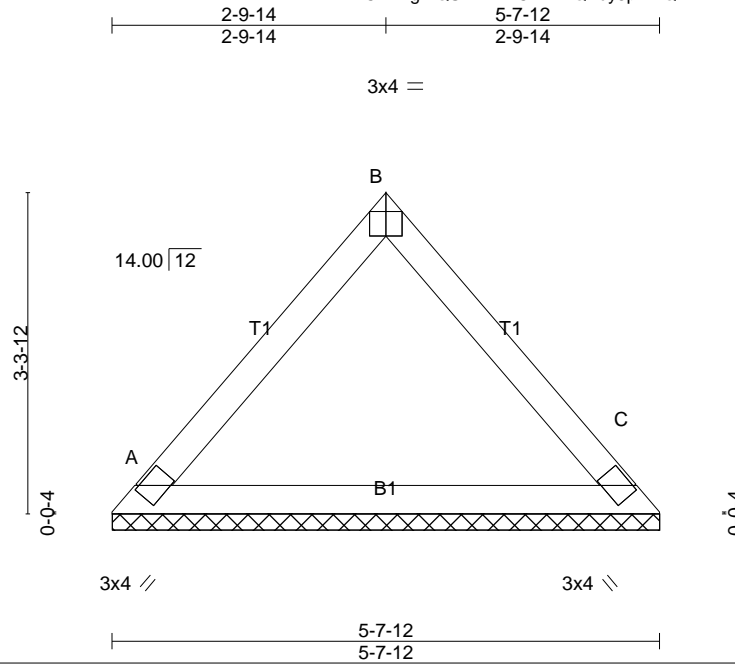
LOAD CASE(S) Standard

Job 19081327	Truss V13	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 Jan 10 09:30:21 2020 Page 1

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Scale = 1:23.8

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

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 0.12	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-SH		Weight: 20 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 5-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=202/5-7-11, C=202/5-7-11
Max Horz A=76(LC 9)
Max Uplift A=-20(LC 11), C=-20(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-156/71, B-C=-156/71
BOT CHORD A-C=-14/98

- 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) 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 20 lb uplift at joint A and 20 lb uplift at joint C.
 - 6) Non Standard bearing condition. Review required.
 - 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.

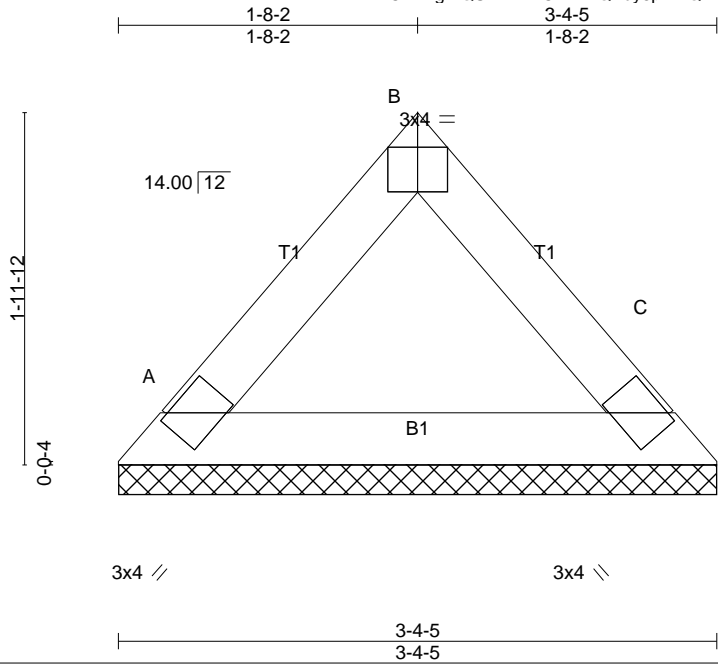
LOAD CASE(S) Standard

Job 19081327	Truss V14	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 Jan 10 09:30:21 2020 Page 1

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Scale = 1:12.9

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

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 0.09	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 3-4-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=110/3-4-4, C=110/3-4-4
 Max Horz A=-42(LC 6)
 Max Uplift A=-11(LC 11), C=-11(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-80/38, B-C=-80/38
 BOT CHORD A-C=-12/45

- 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) 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 11 lb uplift at joint A and 11 lb uplift at joint C.
 - 6) Non Standard bearing condition. Review required.
 - 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