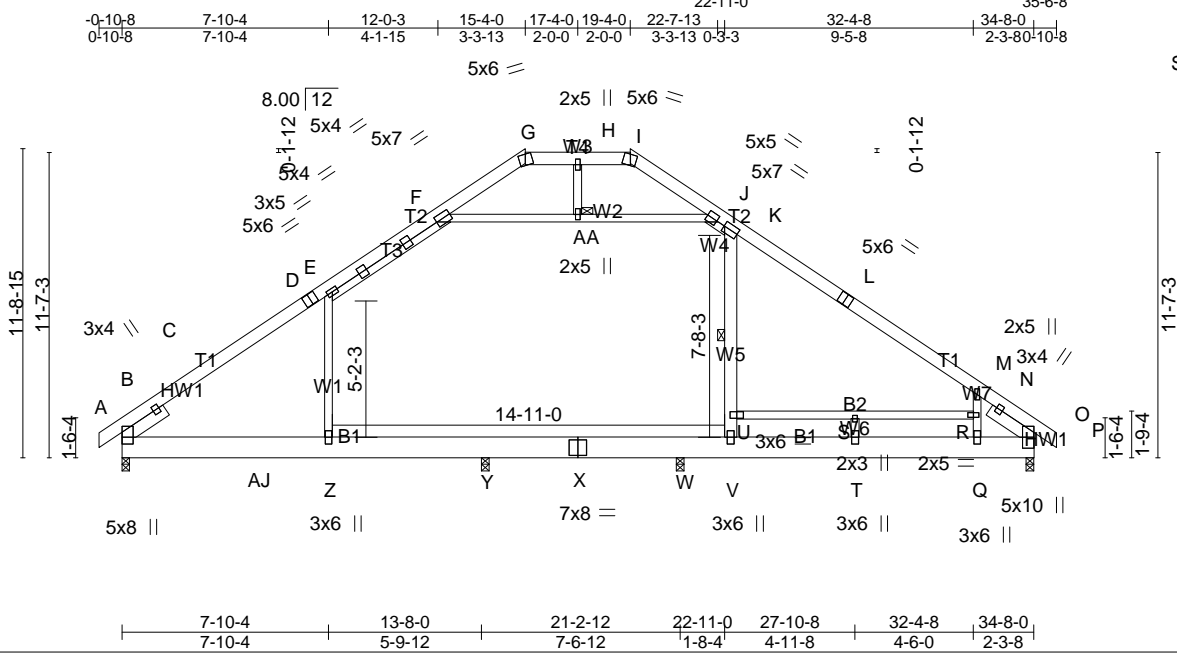


Job 20083567	Truss A1	Truss Type Piggyback Base	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC
 8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:14:31 2020 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.17 R-S >968 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.51	Vert(CT) -0.27 R-S >600 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) -0.03 O n/a n/a		
	Code IRC2015/TPI2014		Attic -0.05 V-W 920 360	Weight: 319 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 T3: 2x4 SP No.2
 BOT CHORD 2x10 SP No.1 *Except*
 B2: 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W5: 2x6 SP No.2
 SLIDER Left 2x6 SP No.2 - 1-11-12, Right 2x6 SP No.2 - \$ 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): G-1.
 BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.
 WEBS 1 Row at midpt K-V
 JOINTS 1 Brace at Jt(s): S, AA

REACTIONS. (lb/size) B=1191/0-3-8 (min. 0-1-8), O=1292/0-3-8 (min. 0-1-12), W=518/0-3-8 (min. 0-1-9), Y=311/0-3-8 (min. 0-1-8)
 Max Horz B=265(LC 9)
 Max Uplift B=126(LC 10), O=47(LC 10), W=146(LC 6), Y=144(LC 10)
 Max Grav B=1274(LC 18), O=1500(LC 18), W=1337(LC 19), Y=872(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/29, B-C=-308/35, C-D=-1313/170, D-E=-1148/175, E-F=-1152/310, F-G=-401/101, G-H=-251/111, H-I=-251/110, I-J=-399/119,
 J-K=-1026/314, K-L=-1251/294, L-M=-1418/217, M-N=-1452/119, N-O=-577/65, O-P=0/29
 BOT CHORD B-AJ=97/1120, Z-AJ=97/1120, Y-Z=-97/1120, X-Y=-97/1120, W-X=-97/1120, V-W=-97/1120, T-V=-64/1237, Q-T=-64/1237, O-Q=-77/1174,
 S-U=-224/51, R-S=-224/51
 WEBS E-Z=-236/214, F-AA=-962/305, J-AA=-962/305, U-V=-387/227, K-U=-340/248, Q-R=-548/396, M-R=-503/416, S-T=-549/0, H-AA=0/91

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Ceiling dead load (5.0 psf) on member(s). E-F, J-K, K-M, F-AA, J-AA
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. Y-Z, W-Y, V-W, S-U, R-S
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint B, 47 lb uplift at joint O, 146 lb uplift at joint W and 144 lb uplift at joint Y.
 - 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 20083567	Truss A1A	Truss Type Piggyback Base	Qty 4	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:14:33 2020 Page 1
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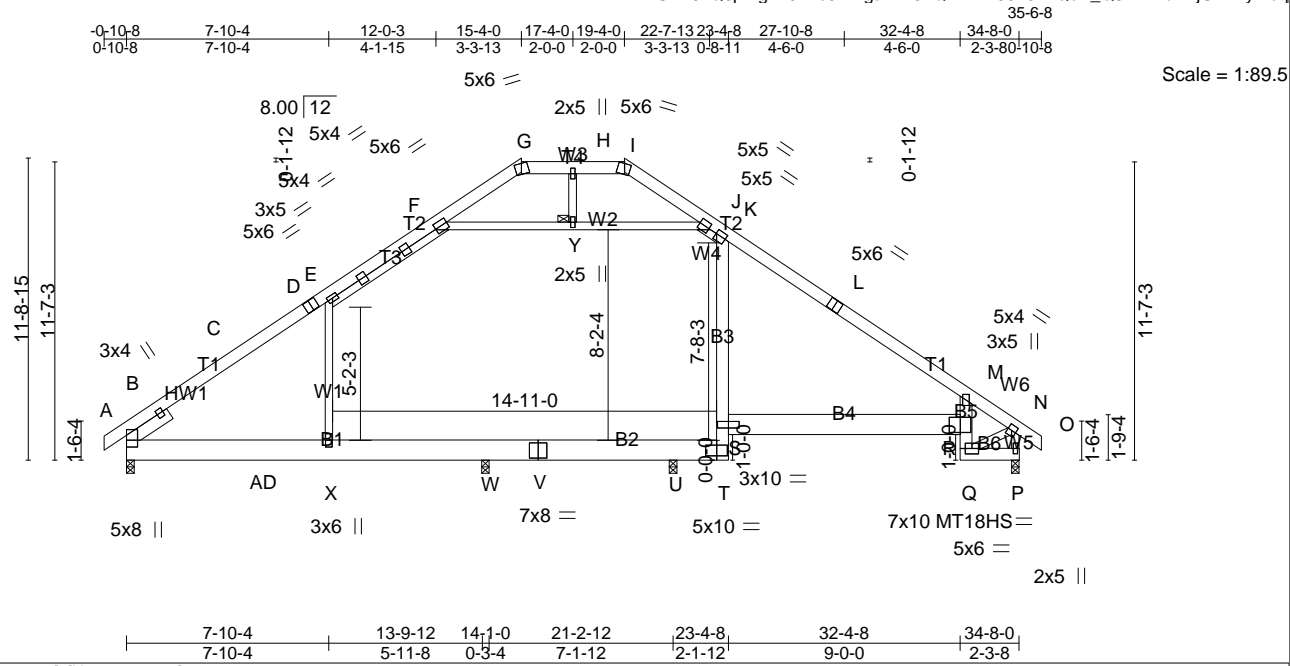


Plate Offsets (X,Y)-- [K:0-0-4,0-2-4], [N:0-1-12,0-2-8]

LOADING (psf)	SPACING-	CSL	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.19 R-S >844 240	MT18HS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.30 R-S >536 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.20 P n/a n/a		
	Code IRC2015/TP12014		Attic -0.06 T-U 766 360	Weight: 302 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): G-1.
BOT CHORD 2x6 SP No.2 *Except* B1,B4,B2: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: S-T 2-2-1 oc bracing: Q-R. 6-0-0 oc bracing: K-S
WEBS 2x4 SP No.3 *Except* W1,W2: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): Y
SLIDER Left 2x6 SP No.2 -S 1-11-12	

REACTIONS. (lb/size) B=1143/0-3-8 (min. 0-1-8), P=1143/0-3-8 (min. 0-1-9), W=331/0-3-8 (min. 0-1-8), U=507/0-3-8 (min. 0-1-9)
 Max Horz B=295(LC 9)
 Max Uplift B=146(LC 10), P=108(LC 10), W=98(LC 10), U=197(LC 6)
 Max Grav B=1200(LC 18), P=1332(LC 18), W=930(LC 18), U=1317(LC 19)

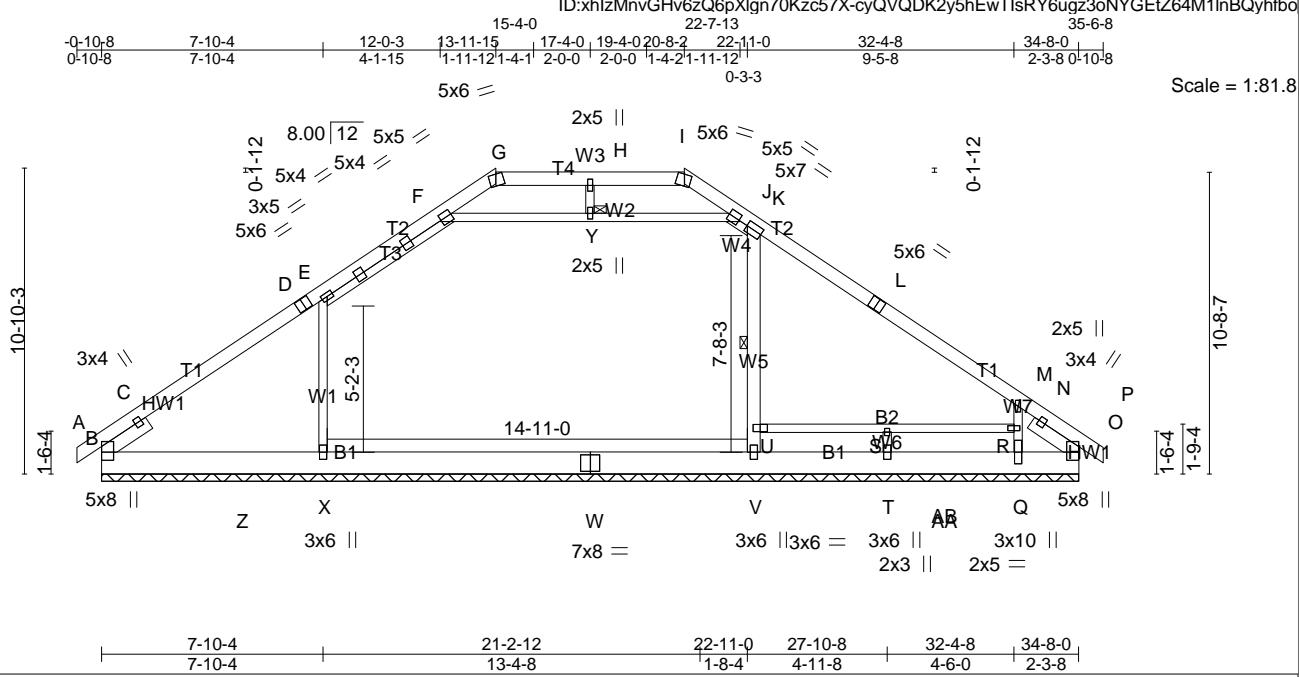
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/29, B-C=-342/10, C-D=-1140/177, D-E=-961/182, E-F=-1064/316, F-G=-437/91, G-H=-290/86, H-I=-290/86, I-J=-450/95, J-K=-938/317,
 K-L=-1226/320, L-M=-1368/275, M-N=-1244/195, N-O=0/34, N-P=-1382/202
 BOT CHORD B-AD=-170/1001, X-AD=-170/1001, W-X=-170/1001, V-W=-170/1001, U-V=-170/1001, T-U=-170/1001, S-T=-748/199, K-S=-380/240,
 R-S=-146/1113, Q-R=-429/82, M-R=-350/184, P-Q=-10/69
 WEBS E-X=-277/194, F-Y=-768/322, J-Y=-768/322, N-Q=-136/1031, H-Y=0/86

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Ceiling dead load (5.0 psf) on member(s). E-F, J-K, K-M, F-Y, J-Y
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. W-X, U-W, T-U, R-S
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint B, 108 lb uplift at joint P, 98 lb uplift at joint W and 197 lb uplift at joint U.
 - 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.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20083567	Truss A1B	Truss Type Piggyback Base	Qty 1	Ply 1	THE NELSON II LH ROOF
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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 0.49 BC 0.35 WB 0.30 Matrix-SH	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 O n/r 120 Vert(CT) -0.00 P n/r 90 Horz(CT) 0.01 O n/a n/a	PLATES MT20 GRIP 244/190 Weight: 317 lb FT = 20%
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LUMBER- TOP CHORD 2x6 SP No.2 *Except* T3: 2x4 SP No.2 BOT CHORD 2x10 SP No.1 *Except* B2: 2x4 SP No.2 WEBS 2x4 SP No.3 *Except* W5: 2x6 SP No.2 SLIDER Left 2x6 SP No.2 - \$ 1-11-12, Right 2x6 SP No.2 - \$ 1-11-12	BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): G-I. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt K-V JOINTS 1 Brace at Jt(s): S, Y
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REACTIONS. (lb/size) B=754/34-8-0 (min. 0-4-8), X=706/34-8-0 (min. 0-4-8), O=547/34-8-0 (min. 0-4-8), V=672/34-8-0 (min. 0-4-8), Q=509/34-8-0 (min. 0-4-8), T=125/34-8-0 (min. 0-4-8)
Max Horz B=248(LC 6)
Max Uplift B=10(LC 10), X=172(LC 10), O=240(LC 7), V=13(LC 11), Q=367(LC 11)
Max Grav B=757(LC 22), X=1115(LC 18), O=589(LC 22), V=1250(LC 19), Q=726(LC 19), T=221(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-16/0, B-C=-888/38, C-D=-817/56, D-E=-603/61, E-F=-851/238, F-G=-621/189, I-J=-616/188, J-K=-742/249, K-L=-723/239, L-M=-910/194, M-N=-734/292, N-O=-749/312, O-P=-16/0, G-H=-528/180, H-I=-527/180
BOT CHORD B-Z=-179/614, X-Z=-179/614, W-X=-179/614, V-W=-179/614, T-V=-176/604, T-AA=-176/604, Q-AA=-176/604, O-Q=-177/610, S-U=-4/12, S-AB=-4/12, R-AB=-4/12
WEBS E-X=-471/272, F-Y=-269/174, J-Y=-269/174, U-V=-526/190, K-U=-463/212, Q-R=-733/456, M-R=-699/476, S-T=-249/0, H-Y=0/72

- 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; 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) Provide adequate drainage to prevent water ponding.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - 7) Ceiling dead load (5.0 psf) on member(s). E-F, J-K, K-M, F-Y, J-Y
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint X, 240 lb uplift at joint O, 13 lb uplift at joint V and 367 lb uplift at joint Q.
 - 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 20083567	Truss A2	Truss Type Piggyback Base	Qty 6	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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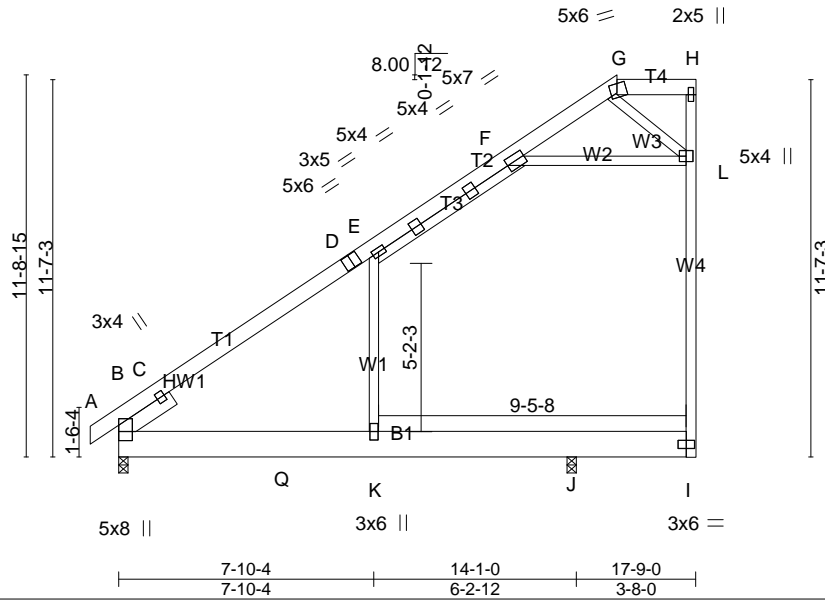
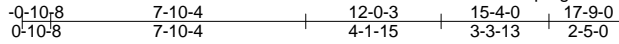


Plate Offsets (X,Y)-- [G:0-3-0,0-1-0]

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 0.75	Vert(LL) 0.22 K-O >759 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.36 K-O >468 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.43	Horz(CT) 0.07 B n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH	Attic -0.20 J-K 730 360		
				Weight: 170 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T3: 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 (10-0-0 max.): G-H.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 5-1-4 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 - \$ 1-11-12	

REACTIONS. (lb/size) B=582/0-3-8 (min. 0-1-8), J=977/0-3-8 (min. 0-1-13)
 Max Horz B=414(LC 9)
 Max Uplift B=30(LC 10), J=150(LC 10)
 Max Grav B=669(LC 19), J=1548(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/29, B-C=-368/241, C-D=-530/445, D-E=-486/452, E-F=-307/144, F-G=-216/92, G-H=-72/104, I-L=-325/156, H-L=-34/65
 BOT CHORD B-Q=-110/114, K-Q=-110/114, J-K=-110/114, I-J=-110/114
 WEBS E-K=-677/428, F-L=-325/371, G-L=-469/265

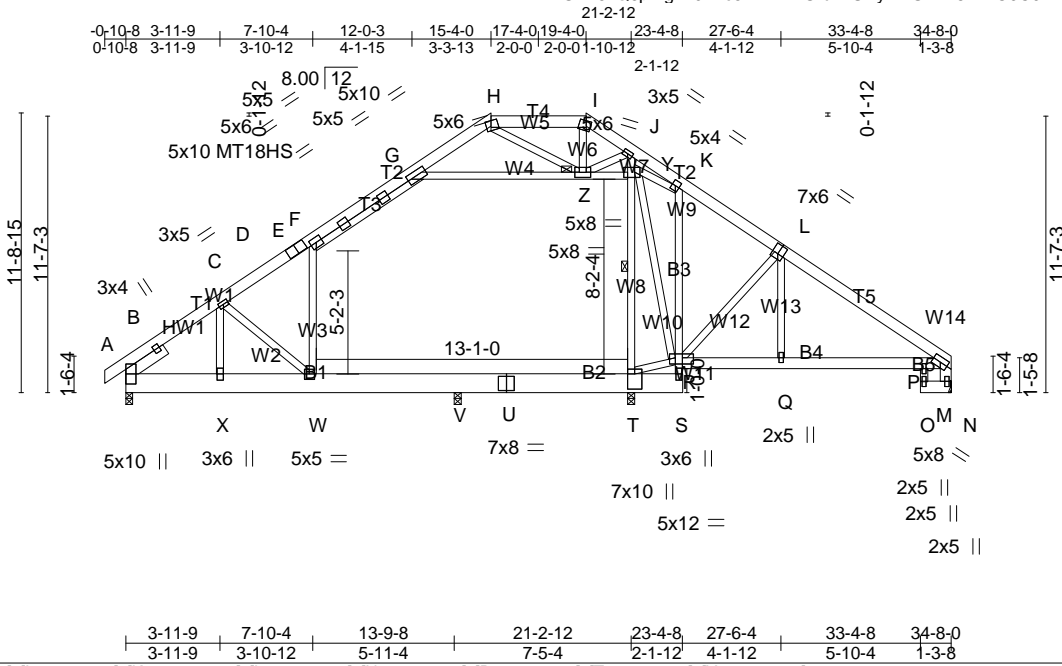
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Ceiling dead load (5.0 psf) on member(s). E-F, F-L
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. J-K, I-J
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint B and 150 lb uplift at joint J.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20083567	Truss A3	Truss Type Piggyback Base	Qty 3	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:14:37 2020 Page 1

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Scale: 1/8"=1'

Plate Offsets (X,Y)-- [H:0-3-0,0-0-4], [I:0-3-0,0-0-4], [K:0-1-12,0-2-8], [L:0-3-0,0-4-8], [N:0-2-8,0-2-4], [R:0-5-8,0-3-0], [T:0-7-8,0-3-8], [Y:0-2-8,0-2-8]

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 0.21	Vert(LL)	-0.07	W >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.13	W >999	180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.05	N n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-MSH	Attic	-0.07	V-W 2085	360		Weight: 338 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP SS *Except* T4,T5: 2x6 SP No.2, T3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): H-I.
BOT CHORD 2x6 SP No.2 *Except* B1,B2: 2x10 SP No.1, B3,B5: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: R-S.
WEBS 2x4 SP No.3 *Except* W3,W8,W4: 2x4 SP No.2, W14: 2x6 SP No.2	WEBS 1 Row at midpt T-Y
SLIDER Left 2x6 SP No.2 -S 1-11-12	JOINTS 1 Brace at Jt(s): Z

REACTIONS. (lb/size) B=1073/0-3-8 (min. 0-1-8), N=998/Mechanical, T=394/0-3-8 (min. 0-1-8), V=477/0-3-8 (min. 0-1-8)
 Max Horz B=290(LC 9)
 Max Uplift B=-168(LC 10), N=-139(LC 10), T=-192(LC 6), V=-44(LC 10)
 Max Grav B=1088(LC 18), N=998(LC 1), T=663(LC 25), V=1061(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/29, B-C=-522/89, C-D=-1261/252, D-E=-957/211, E-F=-865/218, F-G=-934/315, G-H=-392/144, H-I=-206/119, I-J=-308/128, J-K=0/310,
 K-L=-1093/347, L-M=-1433/305, M-N=-996/206
 BOT CHORD B-X=-270/1176, W-X=-270/1176, V-W=-191/875, U-V=-191/875, T-U=-191/875, S-T=-19/110, R-S=-114/33, K-R=-76/380, Q-R=-142/1110,
 P-Q=-142/1111, M-P=-119/1073, O-P=-16/18, N-O=-38/45
 WEBS F-W=-199/105, T-Y=-630/108, J-Y=-681/95, R-T=-193/849, L-R=-475/200, R-Y=-94/268, L-Q=0/263, G-Z=-618/272, Y-Z=-907/277, I-Z=-12/73,
 J-Z=-23/339, K-Y=-1053/296, H-Z=-85/60, D-X=-50/236, D-W=-405/206

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Ceiling dead load (5.0 psf) on member(s). F-G, G-Z, Y-Z
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. V-W, T-V
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint B, 139 lb uplift at joint N, 192 lb uplift at joint T and 44 lb uplift at joint V.
 - 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.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20083567	Truss A4	Truss Type Piggyback Base	Qty 2	Ply 1	THE NELSON II LH ROOF
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-0-10-8 3-11-9 7-10-4 12-0-3 15-4-0 19-4-0 21-2-12 23-4-8 27-6-4 33-4-8 34-8-0
 0-10-8 3-11-9 3-10-12 4-1-15 3-3-13 4-0-0 1-10-12 2-1-12 4-1-12 5-10-4 1-3-8

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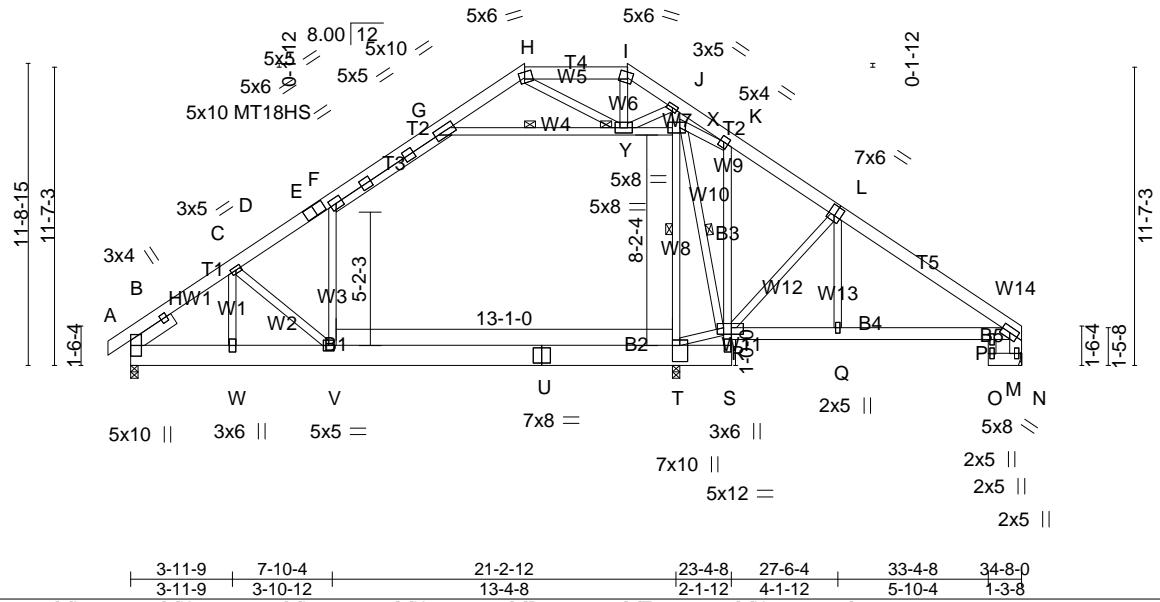


Plate Offsets (X,Y)-- [H:0-3-0,0-0-4], [I:0-3-0,0-0-4], [K:0-1-12,0-2-8], [L:0-3-0,0-4-8], [N:0-2-8,0-2-4], [R:0-5-8,0-3-0], [T:0-7-8,0-3-8], [X:0-2-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFLL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.28	T-V	>917	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.41	T-V	>614	180	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.61	Horz(CT)	0.05	N	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-MSH	Attic	-0.18	T-V	908	360		

Weight: 338 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP SS *Except* T4,T5: 2x6 SP No.2, T3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): H-I.
BOT CHORD 2x6 SP No.2 *Except* B1,B2: 2x10 SP No.1, B3,B5: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W3,W8,W4: 2x4 SP No.2, W14: 2x6 SP No.2	WEBS 1 Row at midpt T-X, R-X, G-Y
SLIDER Left 2x6 SP No.2 -S 1-11-12	JOINTS 1 Brace at Jt(s): Y

REACTIONS. (lb/size) B=1319/0-3-8 (min. 0-1-15), N=1129/Mechanical, T=495/0-3-8 (min. 0-1-8)
 Max Horz B=290(LC 9)
 Max Uplift B=-190(LC 10), N=-151(LC 10), T=-143(LC 6)
 Max Grav B=1634(LC 18), N=1232(LC 18), T=857(LC 19)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/29, B-C=-942/96, C-D=-1937/263, D-E=-1889/227, E-F=-1792/233, F-G=-1507/324, G-H=-360/143, H-I=-221/120, I-J=-324/128, J-K=-138/203, K-L=-1613/369, L-M=-1895/313, M-N=-1221/210
BOT CHORD B-W=-294/1754, V-W=-294/1754, U-V=-165/1529, T-U=-165/1529, S-T=-85/54, R-S=-1146/0, K-R=-78/434, Q-R=-159/1519, P-Q=-159/1520, M-P=-135/1475, O-P=-16/17, N-O=-38/46
WEBS F-V=0/652, T-X=-308/935, J-X=-591/92, R-T=-160/1671, L-R=-442/204, R-X=-764/57, L-Q=0/252, G-Y=-1415/305, X-Y=-1421/298, I-Y=-13/74, J-Y=-28/283, K-X=-1323/302, H-Y=0/222, D-W=-253/86, D-V=-348/202

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Ceiling dead load (5.0 psf) on member(s). F-G, G-Y, X-Y
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. T-V
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint B, 151 lb uplift at joint N and 143 lb uplift at joint T.
 - 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.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Attic room checked for L/360 deflection.

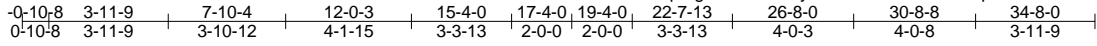
LOAD CASE(S) Standard

Job 20083567	Truss A5	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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ID:xhlzMnvGHv6zQ6pXlgn70Kzc57X-ywDOTwOamdJW1EBpE5i3N0nX4ZqWYkopWJSYteyhfjb



5x6 = 2x5 || 5x6 =

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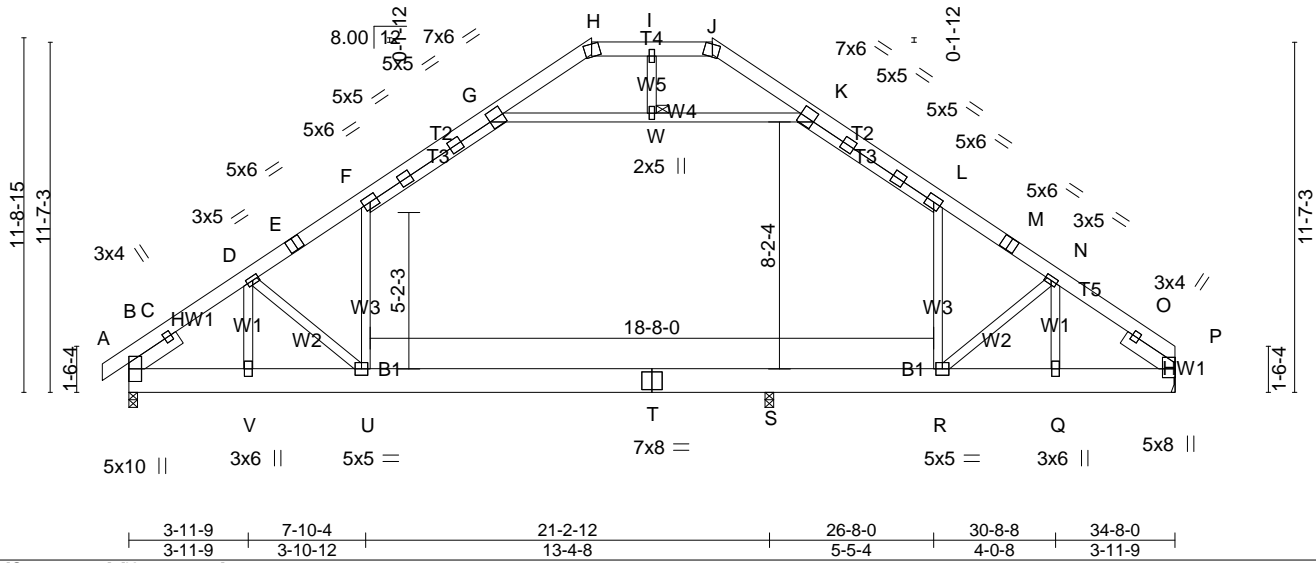


Plate Offsets (X,Y)-- [G:0-0-8,0-3-2], [K:0-0-9,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.50 S-U >507 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.59	Vert(CT) -0.70 S-U >366 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.06 B n/a n/a		
	Code IRC2015/TP12014		Attic -0.36 R-U 626 360	Weight: 319 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T2: 2x6 SP No.1, T3: 2x4 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2-\$ 1-11-12, Right 2x6 SP No.2-\$ 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.); H-J.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
JOINTS 1 Brace at Jt(s): W

REACTIONS. (lb/size) B=1327/0-3-8 (min. 0-1-12), P=1153/Mechanical, S=535/0-3-8 (min. 0-1-10)
Max Horz B=261(LC 7)
Max Uplift B=146(LC 10), P=72(LC 10), S=14(LC 11)
Max Grav B=1495(LC 18), P=1153(LC 1), S=1383(LC 16)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/29, B-C=-898/85, C-D=-1714/254, D-E=-1571/214, E-F=-1474/227, F-G=-1224/323, G-H=-417/159, H-I=-289/132, I-J=-290/134, J-K=-436/124, K-L=-1283/322, L-M=-1443/233, M-N=-1540/217, N-O=-1351/261, O-P=-596/91
BOT CHORD B-V=-273/1629, U-V=-273/1629, T-U=-78/1220, S-T=-78/1220, R-S=-78/1220, Q-R=-153/1067, P-Q=-153/1067
WEBS F-U=0/591, L-R=-255/311, G-W=-1139/274, K-W=-1139/274, I-W=0/96, D-V=-133/180, D-U=-550/263, N-Q=-569/266, N-R=-308/347

- 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; TCDL=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). F-G, K-L, G-W, K-W
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. S-U, R-S
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint B, 72 lb uplift at joint P and 14 lb uplift at joint S.
 - 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.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

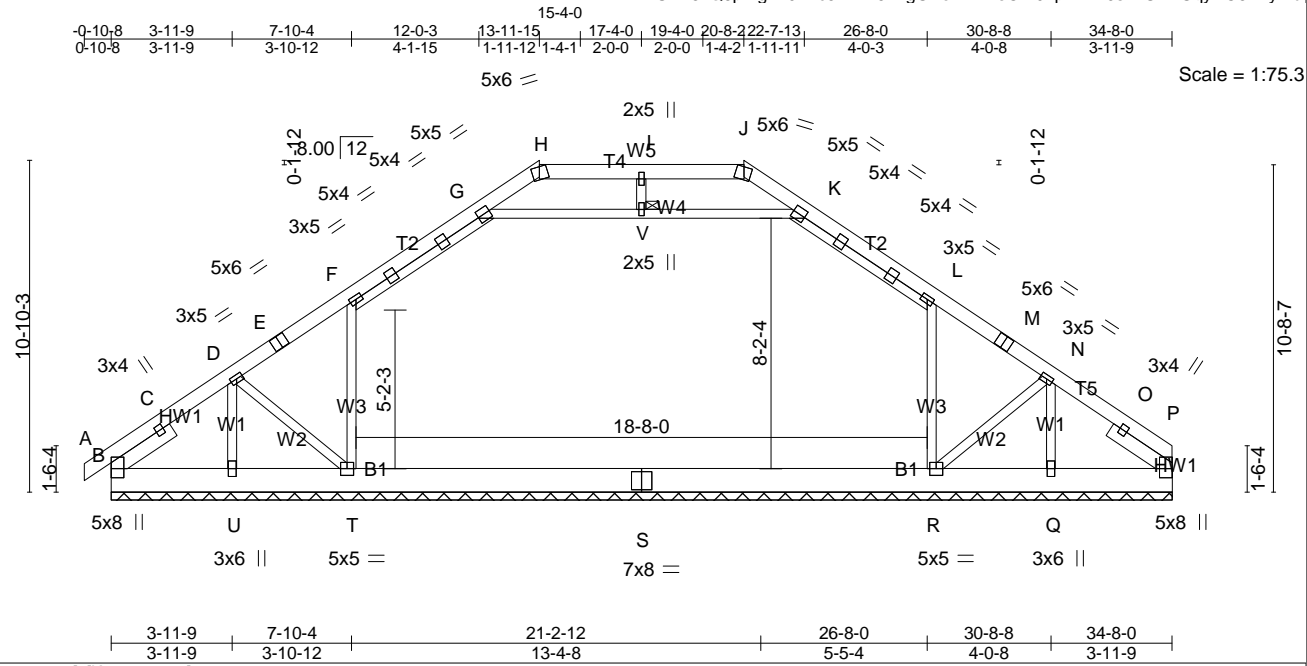


Plate Offsets (X,Y)-- [G:0-2-0,0-2-8], [K:0-0-1,0-2-8]

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 0.30	Vert(LL) 0.00 A n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.52	Vert(CT) 0.00 A n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.01 P n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-SH			
				Weight: 318 lb	FT = 20%

LUMBER- TOP CHORD 2x6 SP No.2 *Except* T3: 2x4 SP No.2 BOT CHORD 2x10 SP No.1 WEBS 2x4 SP No.3 SLIDER Left 2x6 SP No.2 - \$ 2-4-13, Right 2x6 SP No.2 - \$ 2-4-13	BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); H-J. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. JOINTS 1 Brace at Jt(s): V
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REACTIONS. (lb/size) B=710/34-8-0 (min. 0-3-13), T=599/34-8-0 (min. 0-3-13), P=653/34-8-0 (min. 0-3-13), R=600/34-8-0 (min. 0-3-13), U=224/34-8-0 (min. 0-3-13), Q=229/34-8-0 (min. 0-3-13)
 Max Horz B=253(LC 6)
 Max Uplift B=2(LC 11), T=60(LC 10), R=69(LC 11), U=430(LC 16), Q=429(LC 16)
 Max Grav B=710(LC 1), T=1284(LC 18), P=653(LC 1), R=1294(LC 19), U=224(LC 1), Q=229(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-16/0, B-C=-763/73, C-D=-685/94, D-E=-868/128, E-F=-764/143, F-G=-950/274, G-H=-724/209, H-K=-724/209, K-L=-950/274, L-M=-765/144, M-N=-868/128, N-O=-687/95, O-P=-765/69, H-I=-631/201, I-J=-631/201
 BOT CHORD B-U=-140/524, T-U=-140/524, S-T=-102/699, R-S=-102/699, Q-R=-44/526, P-Q=-44/526
 WEBS F-T=-436/220, L-R=-435/216, G-V=-188/114, K-V=-188/114, I-V=0/70, D-U=-379/72, D-T=-52/239, N-Q=-377/71, N-R=-77/242

- 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.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (5.0 psf) on member(s). F-G, K-L, G-V, K-V
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint B, 60 lb uplift at joint T, 69 lb uplift at joint R, 430 lb uplift at joint U and 429 lb uplift at joint Q.
 - 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.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20083567	Truss A6	Truss Type MONOPITCH	Qty 2	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC
 ID: xhIzMnvGHv6zQ6pXlgn70Kzc57X-vJL9ucQRIEZEGYLCLWkXTRsyXNXp0kv6zdxfxWyhifh
 8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:14:42 2020 Page 1

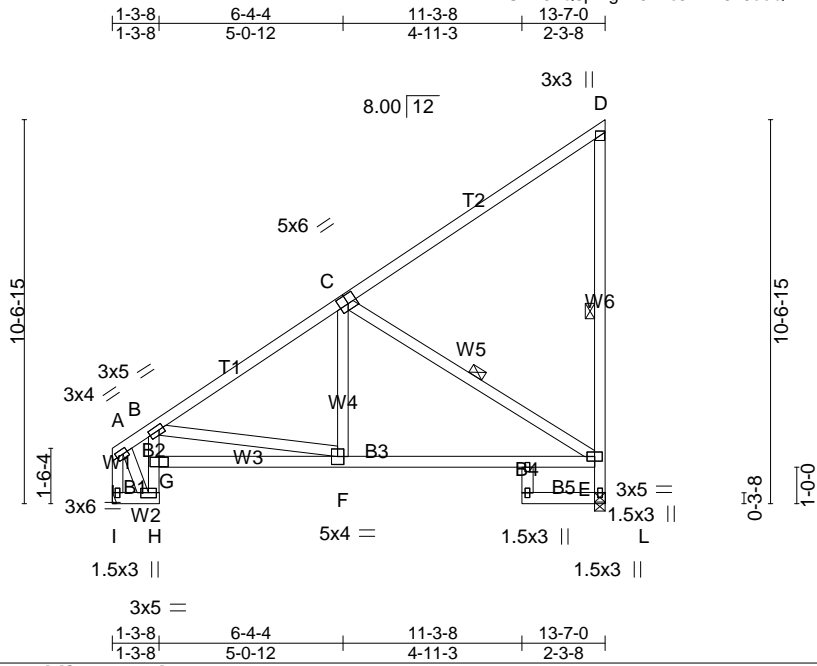


Plate Offsets (X,Y)-- [A:0-1-12,0-1-8], [B:0-1-8,0-1-8], [C:0-3-0,0-3-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	Vert(LL) -0.07 E-F >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.14 E-F >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.06 L n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH		Weight: 95 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 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt D-L, C-E

REACTIONS. (lb/size) I=532/Mechanical, L=532/0-3-8 (min. 0-1-8)
 Max HorzI=325(LC 10)
 Max UpliftL=244(LC 10)
 Max GravI=532(LC 1), L=576(LC 17)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-360/45, B-C=-633/0, C-D=-168/94, E-L=-592/244, D-E=-189/128, A-I=-578/47
 BOT CHORD H-I=-355/305, G-H=-238/0, B-G=-204/0, F-G=-620/912, E-F=-242/546
 WEBS C-F=0/303, A-H=0/384, C-E=-632/282, B-F=-369/388

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Bearing at joint(s) L considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint L.
 - 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

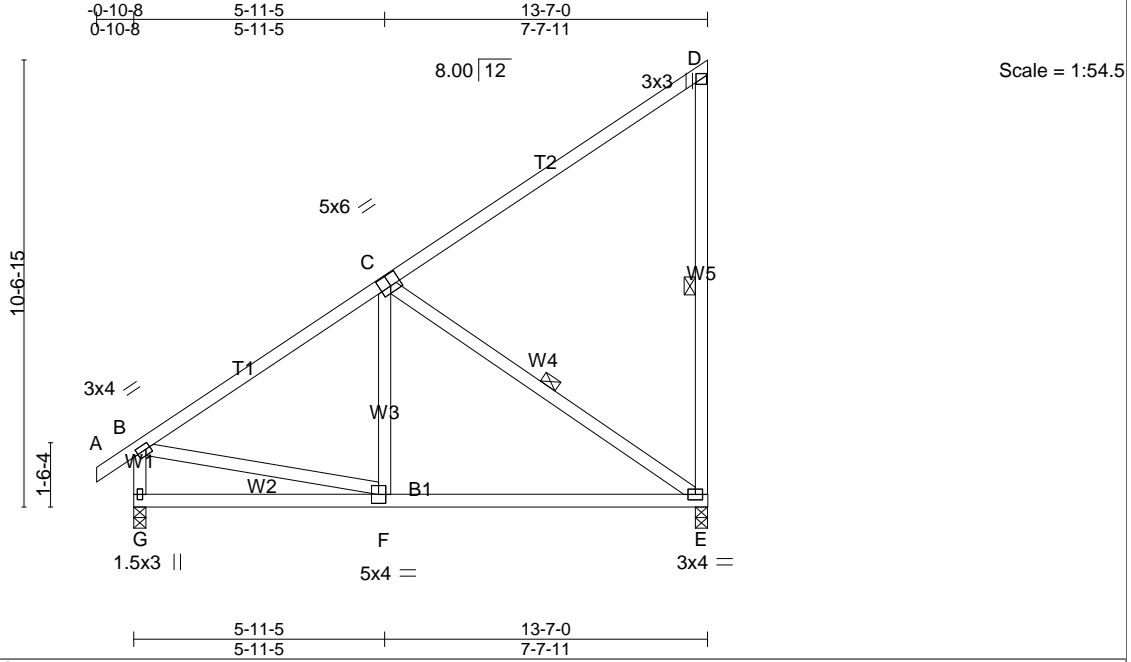


Plate Offsets (X,Y)-- [B:0-1-4,0-1-8], [C:0-3-0,0-3-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.51	Vert(LL) -0.09 E-F >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.24	Vert(CT) -0.18 E-F >877 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) -0.01 E n/a n/a		
	Code IRC2015/TPI2014			Weight: 91 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 9-1-14 oc bracing.
WEBS 1 Row at midpt D-E, C-E

REACTIONS. (lb/size) G=595/0-3-8 (min. 0-1-8), E=529/0-3-8 (min. 0-1-8)
Max Horz G=348(LC 10)
Max Uplift E=-245(LC 10)
Max Grav G=595(LC 1), E=574(LC 17)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/34, B-C=-568/0, C-D=-176/102, D-E=-201/136, B-G=-550/15
BOT CHORD F-G=-404/361, E-F=-212/475
WEBS C-F=0/258, C-E=-566/253, B-F=0/352

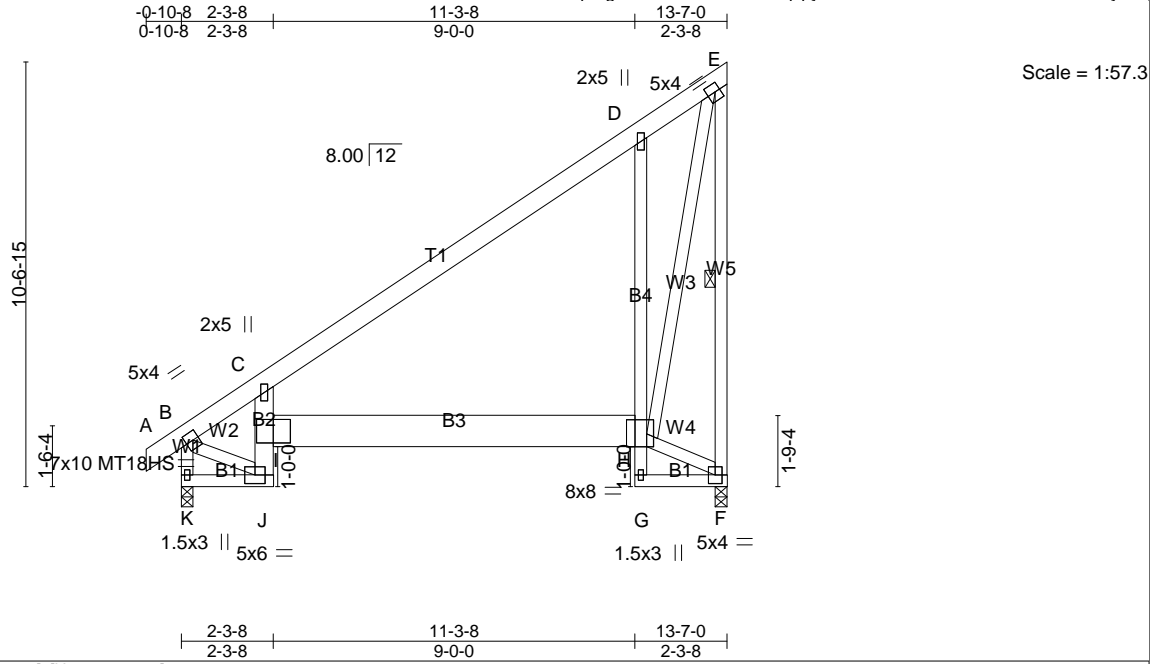
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint E.
 - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 20083567	Truss A7A	Truss Type ROOF TRUSS	Qty 2	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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Scale = 1:57.3

Plate Offsets (X,Y)-- [B:0-1-12,0-2-8], [E:0-1-8,0-2-8], [H:0-6-0,0-3-12]

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 0.48	Vert(LL) -0.15	H-I	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.99	Vert(CT) -0.22	H-I	>718	MT18HS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT) 0.12	F	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-MSH	Attic -0.10	H-I	1168		Weight: 135 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 *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt E-F

REACTIONS. (lb/size) F=529/0-3-8 (min. 0-1-8), K=595/0-3-8 (min. 0-1-8)
Max Horz K=349(LC 10)
Max Uplift F=242(LC 10)
Max Grav F=852(LC 18), K=837(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/34, B-C=-703/7, C-D=-431/0, D-E=-519/176, E-F=-936/267, B-K=-837/21
BOT CHORD J-K=-372/280, I-J=-274/0, C-I=-223/146, H-I=-115/336, G-H=0/38, D-H=-667/419, F-G=-203/28
WEBS F-H=-33/240, E-H=-449/1349, B-J=0/589

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. H-I
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint F.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

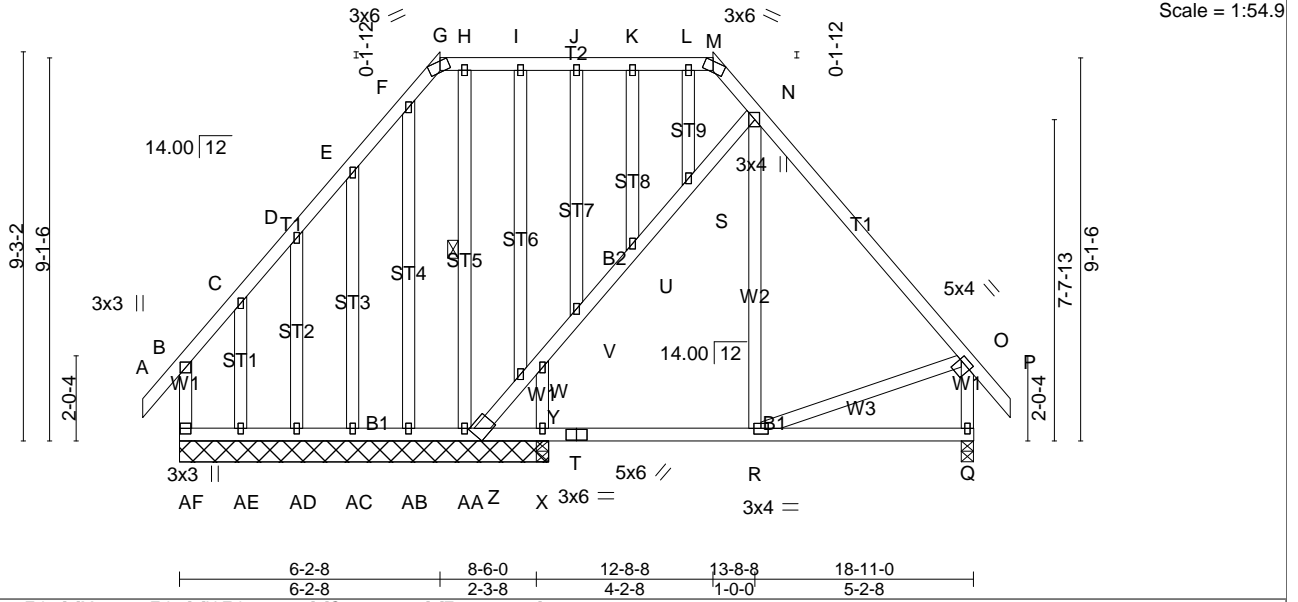
Job 20083567	Truss B1	Truss Type GABLE	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:14:45 2020 Page 1

ID: xhIzMnvGHv6zQ6pXlgn70Kzc57X-Ju0HWdSJb9xp7?3n0eIE44UUV4ahzD6TYfbAJYryhife

-0-10-8	6-2-8	12-8-8	13-8-8	18-11-0	19-9-8
0-10-8	6-2-8	6-6-1	1-0-0'	5-2-8	0-10-8



Scale = 1:54.9

Plate Offsets (X,Y)-- [G:0-2-14,Edge], [M:0-2-14,Edge], [N:Edge,0-1-12], [O:0-0-8,0-1-8], [Z:0-1-3,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) -0.03 S >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.18	Vert(CT) -0.04 S-U >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MSH	Horz(CT) 0.00 Q n/a n/a		
	Code IRC2015/TPI2014			Weight: 187 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.): G-M.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt H-AA
OTHERS 2x4 SP No.3	JOINTS 1 Brace at J(s): W, U, S

REACTIONS. (lb/size) AF=176/8-9-8 (min. 0-1-8), Q=523/0-3-8 (min. 0-1-8), Z=134/8-9-8 (min. 0-1-8), X=436/8-9-8 (min. 0-1-8), X=436/8-9-8 (min. 0-1-8), AE=52/8-9-8 (min. 0-1-8), AD=118/8-9-8 (min. 0-1-8), AC=107/8-9-8 (min. 0-1-8), AB=99/8-9-8 (min. 0-1-8), AA=101/8-9-8 (min. 0-1-8)
 Max Horz AF=278(LC 8)
 Max Uplift AF=4(LC 6), Q=73(LC 10), Z=150(LC 11), AE=256(LC 10), AD=53(LC 10), AC=115(LC 10), AA=17(LC 8)
 Max Grav AF=211(LC 21), Q=525(LC 22), Z=200(LC 18), X=473(LC 3), X=436(LC 1), AE=169(LC 8), AD=123(LC 21), AC=140(LC 17), AB=101(LC 18), AA=150(LC 19)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/47, B-C=-113/99, C-D=-71/119, D-E=-114/200, E-F=-199/303, F-G=-187/266, G-H=-164/243, H-I=-164/243, I-J=-164/243, J-K=-164/243, K-L=-164/243, L-M=-164/243, M-N=-223/257, N-O=-402/204, O-P=0/47, B-AF=-173/66, O-Q=-478/199
 BOT CHORD AE-AF=-243/233, AD-AE=-243/233, AC-AD=-243/233, AB-AC=-243/233, AA-AB=-243/233, Z-AA=-243/233, X-Z=-60/238, T-X=-60/238, R-T=-60/238, Q-R=-74/80, Y-Z=-357/131, W-Y=-289/149, V-W=-431/139, U-V=-372/123, S-U=-361/119, N-S=-335/121
 WEBS N-R=0/134, W-X=-360/50, O-R=-74/213, C-AE=-195/177, D-AD=-111/94, E-AC=-139/125, F-AB=-75/0, H-AA=-86/67, I-Y=-161/45, J-V=-118/37, K-U=-20/62, L-S=-70/69

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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 4 lb uplift at joint AF, 73 lb uplift at joint Q, 150 lb uplift at joint Z, 256 lb uplift at joint AE, 53 lb uplift at joint AD, 115 lb uplift at joint AC and 17 lb uplift at joint AA.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 20083567	Truss B2	Truss Type ROOF TRUSS	Qty 1	Ply 2	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8:330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:14:52 2020 Page 1

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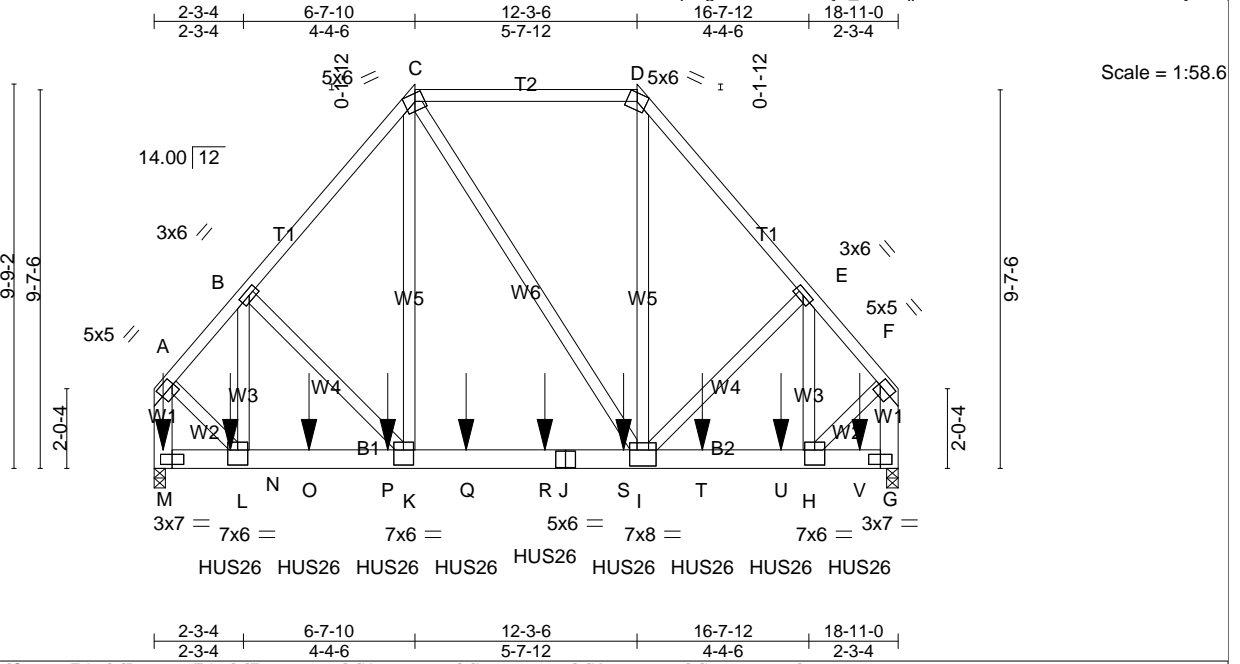


Plate Offsets (X,Y)-- [A:0-0-8,0-2-8], [C:0-3-4,Edge], [D:0-2-14,Edge], [F:0-0-8,0-2-8], [H:0-3-0,0-4-8], [I:0-4-0,0-4-12], [K:0-3-0,0-4-8], [L:0-3-0,0-4-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.08 I-K >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.15 I-K >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.65	Horz(CT) 0.02 G n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH			Weight: 338 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 2x6 SP No.2	and 2-0-0 oc purlins (6-0-0 max.); C-D.
WEBS 2x4 SP No.3 *Except* W1: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

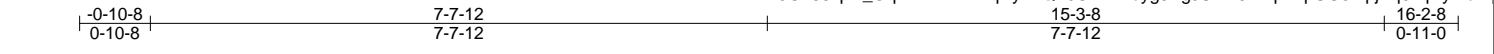
REACTIONS. (lb/size) M=5686/0-3-8 (min. 0-1-8), G=4322/0-3-8 (min. 0-1-8)
Max Horz M=-258(LC 4)
Max Uplift M=323(LC 8)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-3726/411, B-C=-3923/517, C-D=-2276/310, D-E=-3616/364, E-F=-2946/36, A-M=-4933/509, F-G=-3867/8
BOT CHORD M-N=-249/273, L-N=-249/273, L-O=-422/2399, O-P=-422/2399, K-Q=-365/2467, Q-R=-365/2467, J-R=-365/2467, J-S=-365/2467, I-S=-365/2467, I-T=-13/1891, T-U=-13/1891
, H-U=-13/1891, H-V=-30/101, G-V=-30/101
WEBS B-L=-399/98, B-K=-156/273, C-K=-500/2934, C-L=-511/293, D-L=-217/2360, E-L=-357/648, E-H=-1067/411, A-L=-326/3116, F-H=-3/2406

- 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 0-8-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) M, G 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 323 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/TP1 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 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 1-11-4 from the left end to 17-11-4 to connect truss(es) A5 (1 ply 2x10 SP), A4 (1 ply 2x6 SP), A3 (1 ply 2x6 SP), A6 (1 ply 2x4 SP), A7 (1 ply 2x4 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=60, C-D=60, D-F=60, G-M=20
Concentrated Loads (lb)
Vert: M=644 N=1133(B) O=-1109(B) P=-1109(B) Q=-978(B) R=-978(B) S=-978(B) T=-512(B) U=-512(B) V=-578(B)



Scale = 1:28.6

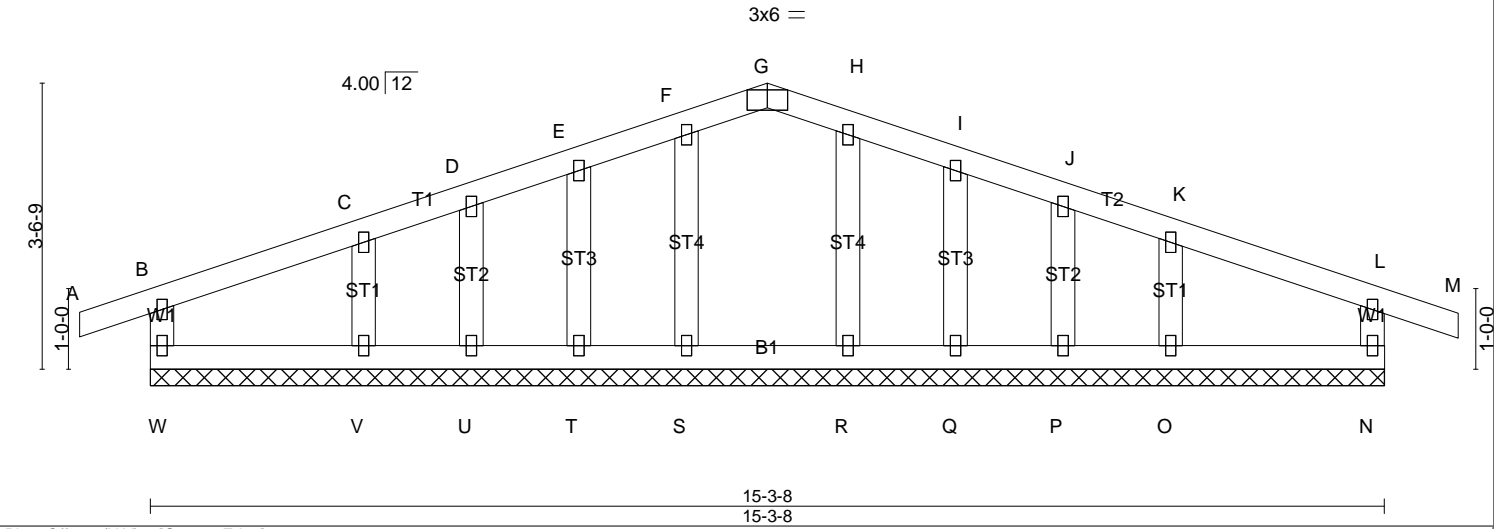


Plate Offsets (X,Y)-- [G:0-3-0,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.00 M n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 M n/r 90	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 N n/a n/a	
BCDL 10.0	Code IRC2015/TP12014	Matrix-R		Weight: 75 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) W=169/15-3-8 (min. 0-2-1), N=173/15-3-8 (min. 0-2-1), S=138/15-3-8 (min. 0-2-1), T=100/15-3-8 (min. 0-2-1), U=86/15-3-8 (min. 0-2-1), V=168/15-3-8 (min. 0-2-1), R=138/15-3-8 (min. 0-2-1), Q=100/15-3-8 (min. 0-2-1), P=87/15-3-8 (min. 0-2-1), O=166/15-3-8 (min. 0-2-1)
Max Horz W=-24(LC 15)
Max Uplift W=-56(LC 6), N=-59(LC 7), T=-37(LC 10), U=-16(LC 6), V=-54(LC 10), Q=-37(LC 11), P=-17(LC 7), O=-52(LC 11)
Max Grav W=169(LC 1), N=173(LC 1), S=138(LC 1), T=104(LC 21), U=86(LC 1), V=170(LC 21), R=138(LC 1), Q=104(LC 22), P=87(LC 1), O=166(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD B-W=-146/110, A-B=0/19, B-C=-43/39, C-D=-49/65, D-E=-52/82, E-F=-61/107, F-G=-65/115, G-H=-65/115, H-I=-61/107, I-J=-52/82, J-K=-49/65, K-L=-41/37, L-M=0/20, L-N=-149/113
BOT CHORD V-W=0/40, U-V=0/40, T-U=0/40, S-T=0/40, R-S=0/40, Q-R=0/40, P-Q=0/40, O-P=0/40, N-O=0/40
WEBS F-S=-102/16, E-T=-79/63, D-U=-67/39, C-V=-122/76, H-R=-102/15, I-Q=-78/63, J-P=-68/39, K-O=-121/75

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable 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 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint W, 59 lb uplift at joint N, 37 lb uplift at joint T, 16 lb uplift at joint U, 54 lb uplift at joint V, 37 lb uplift at joint Q, 17 lb uplift at joint P and 52 lb uplift at joint O.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

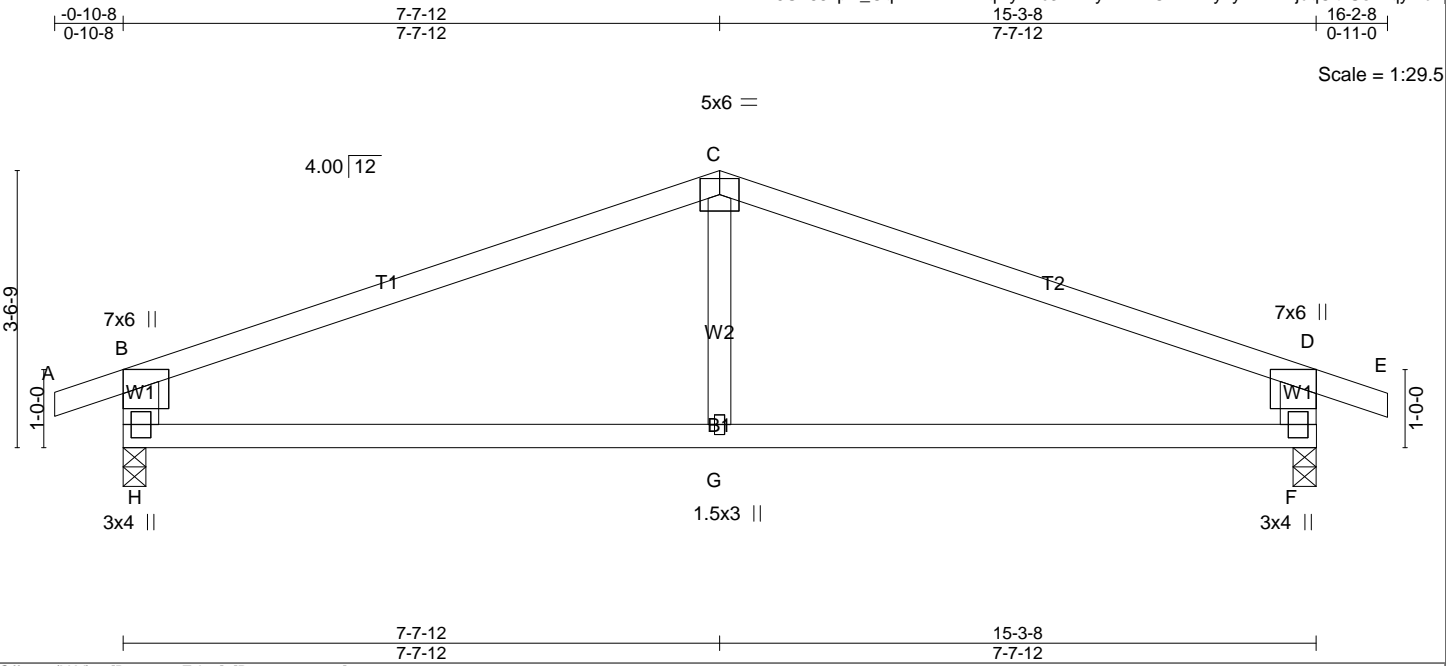


Plate Offsets (X,Y)-- [B:0-3-11,Edge], [D:0-3-11,0-0-0]

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 0.95	Vert(LL) -0.09 G-H >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.19 G-H >917 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.02 F n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MR		Weight: 57 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x6 SP No.2 *Except*
 W2: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) H=659/0-3-8 (min. 0-1-8), F=662/0-3-8 (min. 0-1-8)
 Max Horz H=-23(LC 15)
 Max Uplift H=-127(LC 6), F=-129(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/21, B-C=-827/225, C-D=-827/225, D-E=0/22, B-H=-573/256, D-F=-575/259
 BOT CHORD G-H=-89/703, F-G=-89/703
 WEBS C-G=0/287

- 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 127 lb uplift at joint H and 129 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

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

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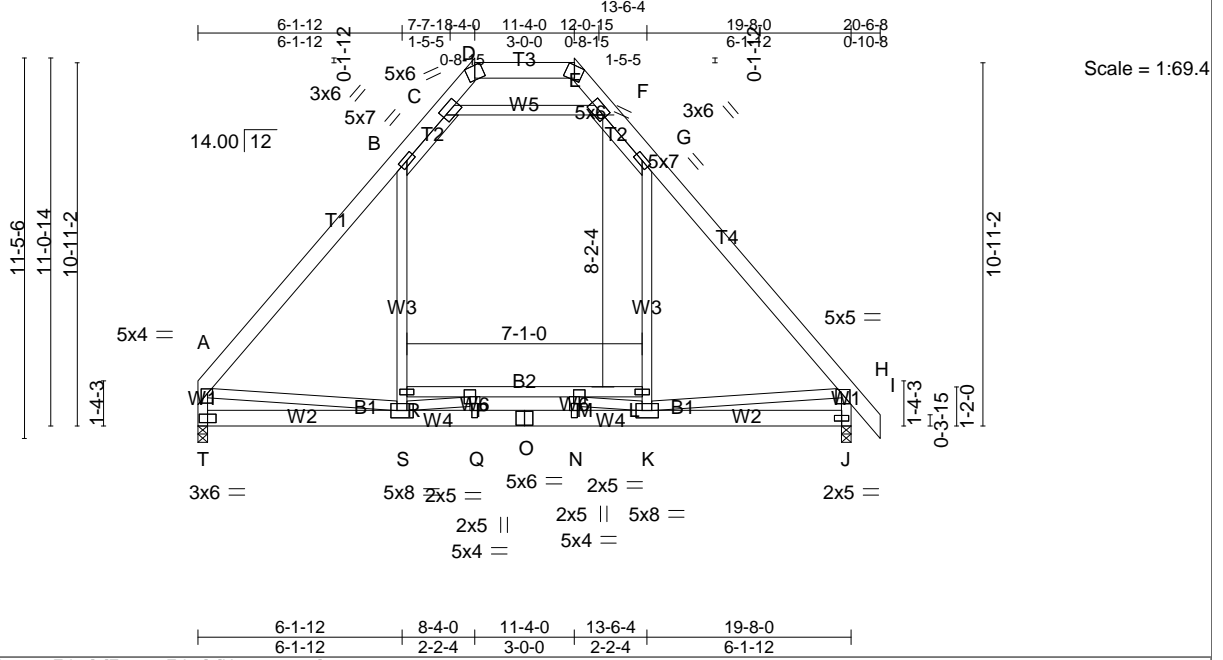


Plate Offsets (X,Y)-- [A:0-2-4,0-1-8], [D:0-2-1,Edge], [E:0-2-1,Edge], [H:0-3-0,0-1-4]

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 0.61	Vert(LL) 0.10 S-T >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.12 S-T >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.01 J n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH	Attic -0.05 L-R 1660 360		
				Weight: 191 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.); D-E.
BOT CHORD 2x6 SP No.2 *Except* B2: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: L-R
WEBS 2x4 SP No.3 *Except* W3: 2x4 SP No.2	

REACTIONS. (lb/size) T=884/0-3-8 (min. 0-1-8), J=949/0-3-8 (min. 0-1-8)
 Max Horz T=300(LC 6)
 Max Grav T=1009(LC 2), J=1063(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-1107/88, B-C=-565/184, C-D=-136/287, D-E=-215/495, E-F=-132/290, F-G=-563/181, G-H=-1113/98, H-I=0/47, A-T=-974/85,
 H-J=-1020/132
 BOT CHORD S-T=-344/474, Q-S=0/1260, O-Q=0/1260, N-O=0/1260, K-N=0/1260, J-K=-183/295, P-R=-90/92, M-P=-682/0, L-M=-90/94
 WEBS A-S=-109/580, R-S=-1/369, B-R=0/448, K-L=0/379, G-L=0/456, H-K=-148/595, C-F=-1123/478, P-Q=-31/36, M-N=-31/36, P-S=-733/0,
 K-M=-736/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Ceiling dead load (5.0 psf) on member(s). B-C, F-G, C-F
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. P-R, M-P, L-M
 - 8) Bearing at joint(s) T, J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 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 20083567	Truss D1A	Truss Type ATTIC GIRDER	Qty 1	Ply 2	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC
 8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:14:57 2020 Page 1
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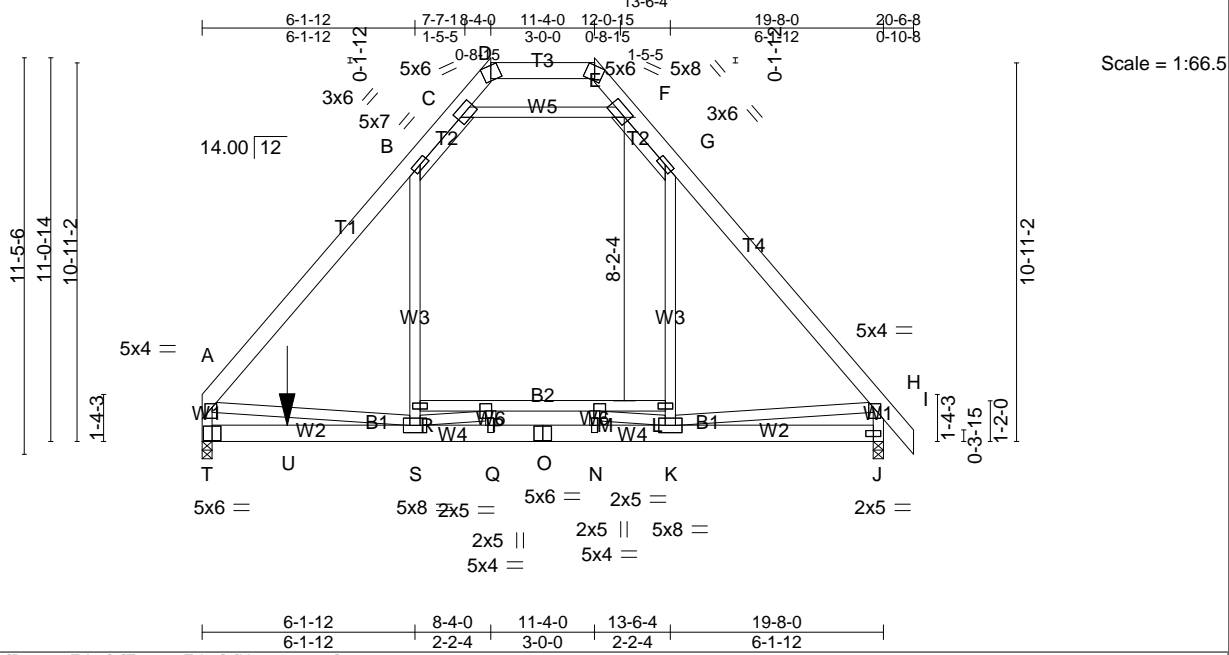


Plate Offsets (X,Y)-- [A:0-2-8,0-1-4], [D:0-2-1,Edge], [E:0-2-1,Edge], [H:0-2-8,0-1-4]

LOADING (psf)	SPACING- 4-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.90	Vert(LL) -0.11 S-T >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.18 S-T >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.35	Horz(CT) 0.01 J n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH	Attic -0.08 L-R 1106 360	Weight: 382 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD 2x6 SP No.2 *Except* B2: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: L-R
WEBS 2x4 SP No.3 *Except* W3: 2x4 SP No.2	

REACTIONS. (lb/size) T=2476/0-3-8 (min. 0-1-8), J=1993/0-3-8 (min. 0-1-8)
 Max Horz T=-599(LC 4)
 Max Grav T=2789(LC 2), J=2230(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-2423/48, B-C=-1182/232, C-D=-233/609, D-E=-326/942, E-F=-252/574, F-G=-1259/203, G-H=-2328/89, H-I=0/93, A-T=-2114/21, H-J=-2178/49
 BOT CHORD T-U=-571/1057, S-U=-571/1057, Q-S=0/2480, O-Q=0/2480, N-O=0/2480, K-N=0/2480, J-K=-393/565, P-R=-232/144, M-P=-1147/0, L-M=-147/223
 WEBS A-S=-288/1094, R-S=0/1002, B-R=0/1136, K-L=0/792, G-L=0/959, H-K=-228/1254, C-F=-2282/632, P-Q=-184/2, M-N=-131/33, P-S=-1255/129, K-M=-1336/0

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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). B-C, F-G, C-F
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. P-R, M-P, L-M
 - Bearing at joint(s) T, J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 876 lb down at 2-5-8 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
 Uniform Loads (plf)
 Vert: A-B=-120, B-C=-140, C-D=-120, D-E=-120, E-F=-120, F-G=-140, G-H=-120, H-I=-120, J-T=-40, L-R=-40, C-F=-20
 Concentrated Loads (lb)
 Vert: U=803(B)

Job 20083567	Truss D1B	Truss Type ATTIC GIRDER	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC
 8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:14:58 2020 Page 1
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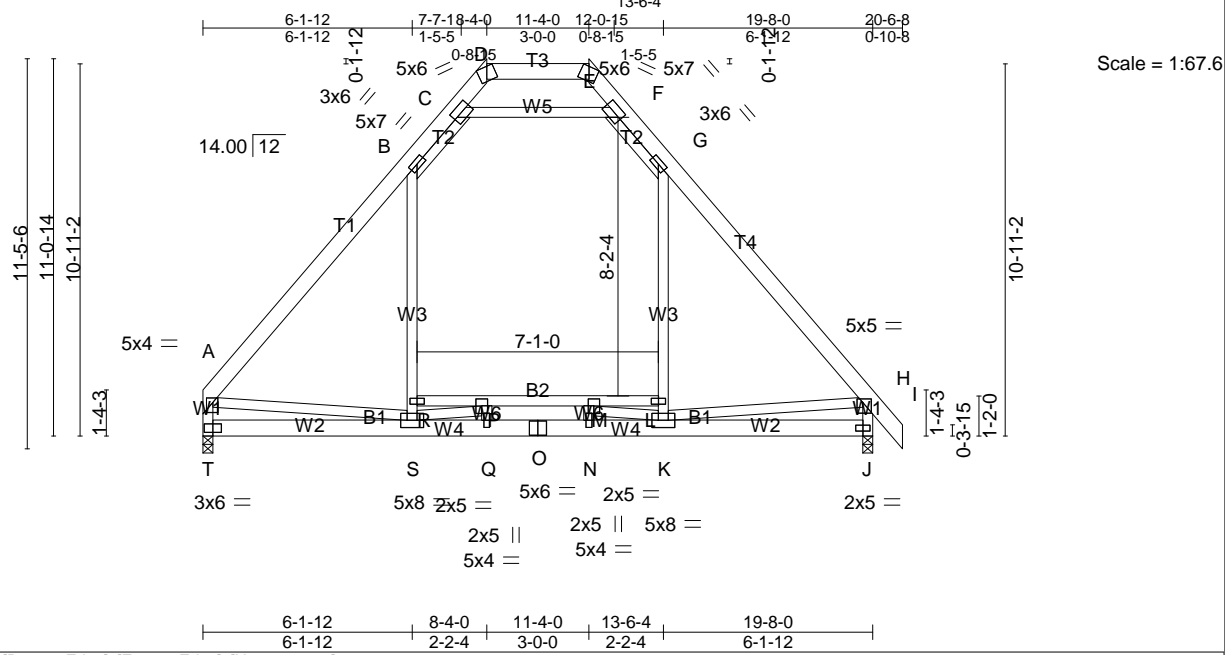


Plate Offsets (X,Y)-- [A:0-2-4,0-1-8], [D:0-2-1,Edge], [E:0-2-1,Edge], [H:0-3-0,0-1-4]

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 0.61	Vert(LL) 0.10 S-T >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.12 S-T >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.01 J n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH	Attic -0.05 L-R 1660 360		
				Weight: 191 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): D-E.
BOT CHORD 2x6 SP No.2 *Except* B2: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: L-R
WEBS 2x4 SP No.3 *Except* W3: 2x4 SP No.2	

REACTIONS. (lb/size) T=884/0-3-8 (min. 0-1-8), J=949/0-3-8 (min. 0-1-8)
 Max Horz T=300(LC 6)
 Max Grav T=1009(LC 2), J=1063(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-1107/88, B-C=-565/184, C-D=-136/287, D-E=-215/495, E-F=-132/290, F-G=-563/181, G-H=-1113/98, H-I=0/47, A-T=-974/85, H-J=-1020/132
 BOT CHORD S-T=-344/474, Q-S=0/1260, O-Q=0/1260, N-O=0/1260, K-N=0/1260, J-K=-183/295, P-R=-90/92, M-P=-682/0, L-M=-90/94
 WEBS A-S=-109/580, R-S=-1/369, B-R=0/448, K-L=0/379, G-L=0/456, H-K=-148/595, C-F=-1123/478, P-Q=31/36, M-N=-31/36, P-S=-733/0, K-M=-736/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Ceiling dead load (5.0 psf) on member(s). B-C, F-G, C-F
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. P-R, M-P, L-M
 - 8) Bearing at joint(s) T, J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 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

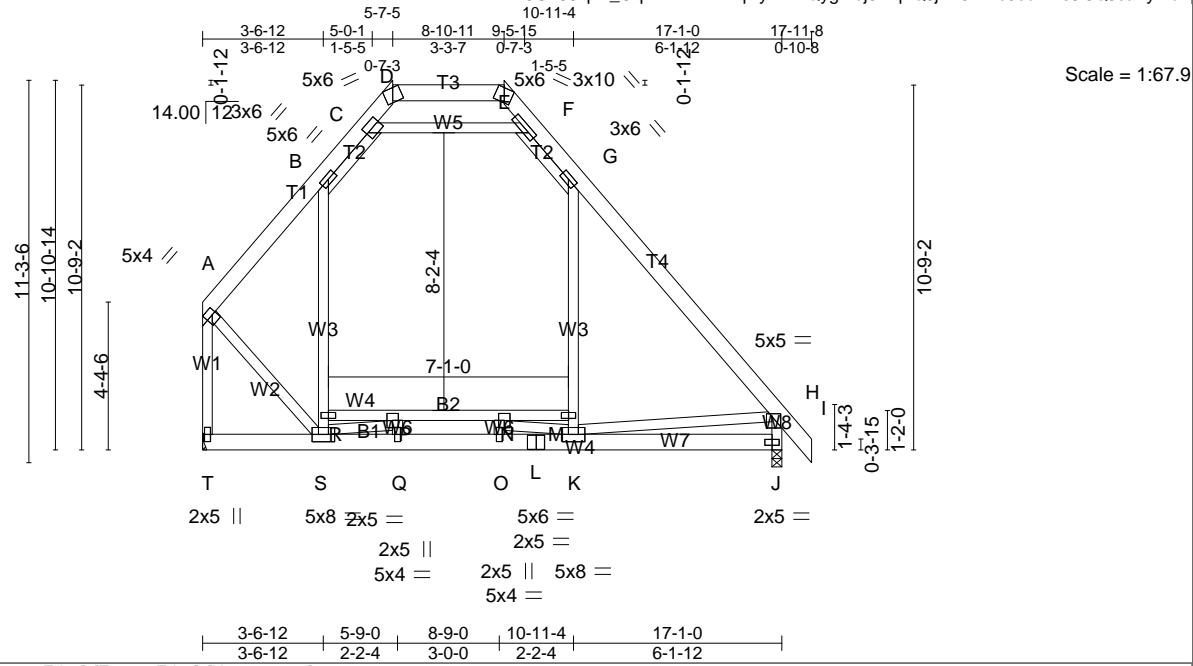


Plate Offsets (X,Y)-- [A:0-2-12,Edge], [D:0-2-1,Edge], [E:0-2-1,Edge], [H:0-3-0,0-1-0]

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 0.70	Vert(LL) 0.12 J-K >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.17 K >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.01 J n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-MSH	Attic 0.06 M-R 1427 360		
				Weight: 178 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T2: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
B2: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W3: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): D-E.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: S-T.
6-0-0 oc bracing: M-R

REACTIONS. (lb/size) T=798/Mechanical, J=829/0-3-8 (min. 0-1-8)
Max Horz T=-331(LC 6)
Max Grav T=977(LC 19), J=921(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-712/149, B-C=-486/173, C-D=-101/188, D-E=-178/373, E-F=-125/255, F-G=-424/188, G-H=-900/87, H-I=0/47, A-T=-1121/76,
H-J=-834/125
BOT CHORD S-T=-273/306, Q-S=0/1083, O-Q=0/1083, L-O=0/1083, K-L=0/1083, J-K=-181/360, P-R=-55/171, N-P=-654/0, M-N=-152/70
WEBS R-S=-77/164, B-R=-69/224, K-M=-3/267, G-M=0/371, C-F=-873/425, A-S=-73/771, H-K=-216/399, P-Q=-68/30, N-O=-29/45, P-S=-807/0,
K-N=-621/2

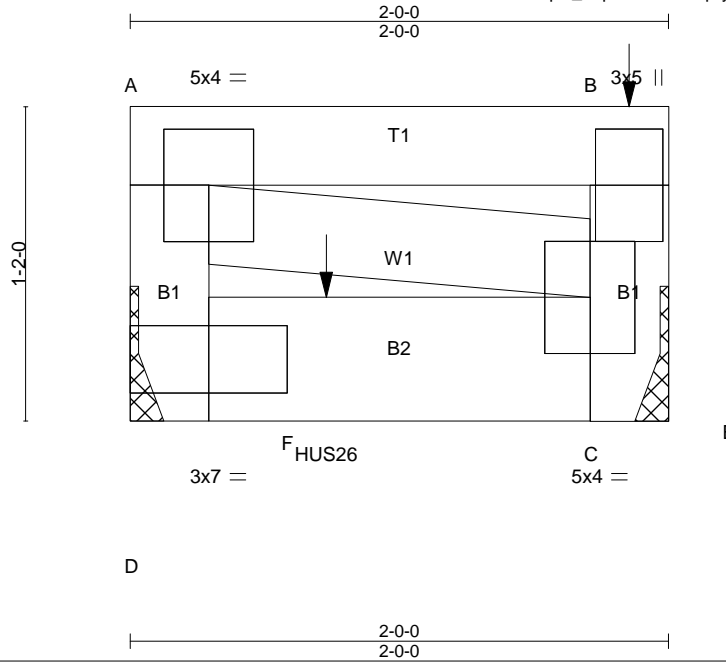
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Ceiling dead load (5.0 psf) on member(s). B-C, F-G, C-F
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. P-R, N-P, M-N
 - 8) Bearing at joint(s) J considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 20083567	Truss D3	Truss Type FLAT GIRDER	Qty 1	Ply 2	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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Scale = 1:8.6

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 0.16	Vert(LL) -0.00 B >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.00 B >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 E n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins: A-B.
BOT CHORD 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
B2: 2x6 SP No.2	
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) D=841/Mechanical, E=4948/Mechanical
Max UpliftE=765(LC 4)
Max GravD=913(LC 2), E=4948(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/0
BOT CHORD A-D=-308/70, C-E=-4948/765, B-C=-4664/867, D-F=-0/0, C-F=-0/0
WEBS A-C=0/0

- 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 0-8-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-3-0 oc, 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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.
 - Provide metal plate or equivalent at bearing(s) E to support reaction shown.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 765 lb uplift at joint E.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 0-8-12 from the left end to connect truss(es) D2 (1 ply 2x6 SP) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4356 lb down and 797 lb up at 1-10-4 on top 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
Uniform Loads (plf)
Vert: A-B=-360(F=-300), C-D=-20
Concentrated Loads (lb)
Vert: B=4356 F=-784(F)

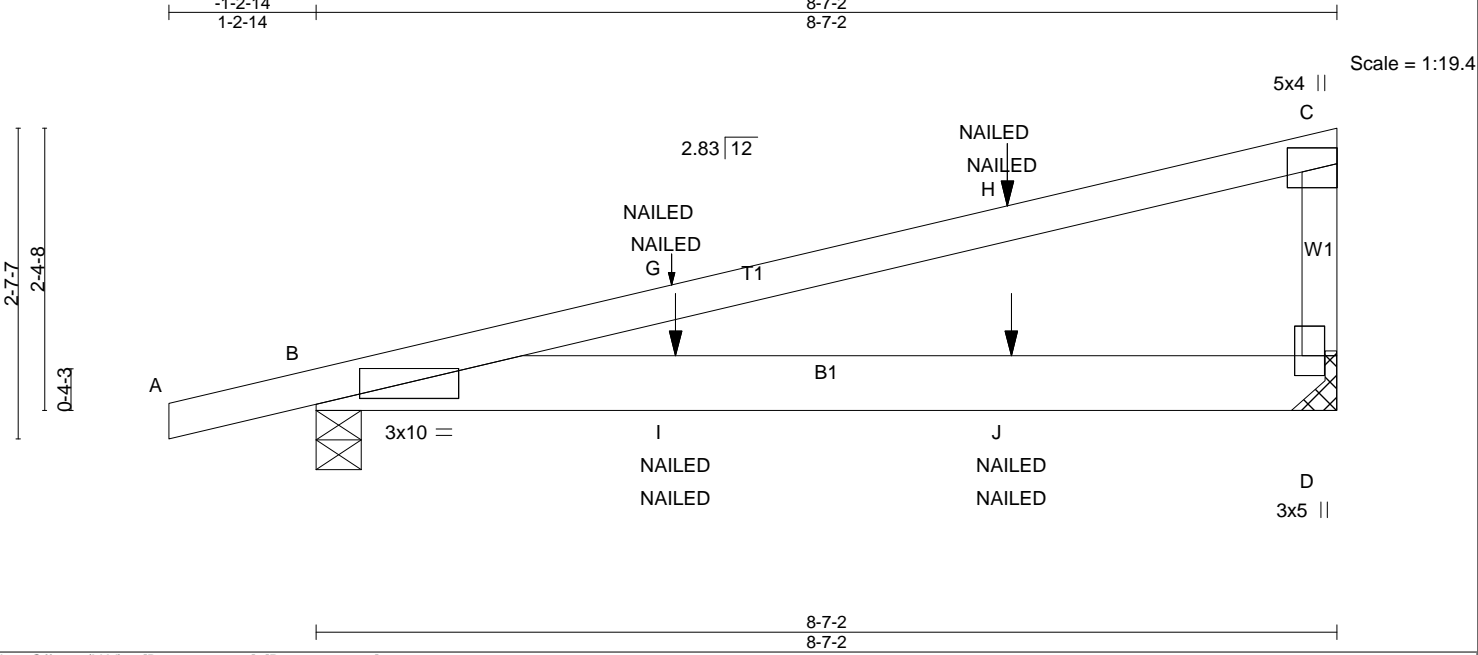


Plate Offsets (X,Y)-- [B:0-4-7,0-0-10], [D:0-2-0,0-0-12]

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 0.80	Vert(LL) 0.10 D-F >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.20 D-F >516 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 D n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH		Weight: 38 lb	FT = 20%

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

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

REACTIONS. (lb/size) D=395/Mechanical, B=452/0-4-9 (min. 0-1-8)
 Max Horz B=86(LC 5)
 Max Uplift D=81(LC 8), B=-129(LC 4)

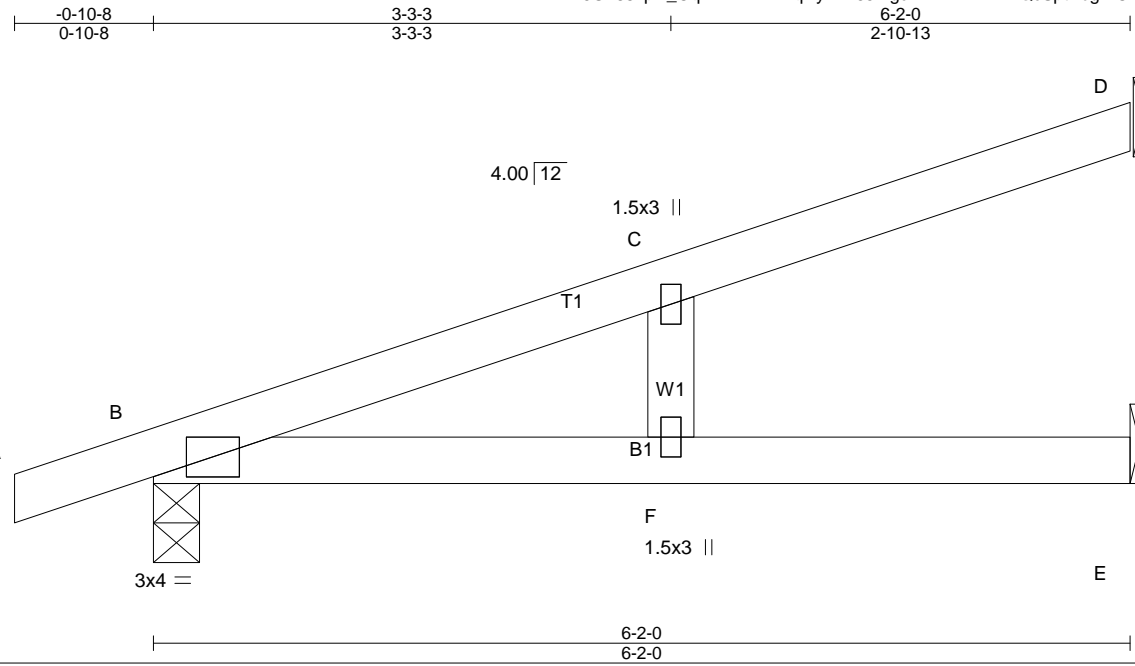
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/17, B-G=-227/32, G-H=-181/41, C-H=-163/43, C-D=-192/93
 BOT CHORD B-I=-56/176, I-J=-56/176, D-J=-56/176

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint D and 129 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.
 - 6) "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced); Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-C=-60, B-D=-20
 Concentrated Loads (lb)
 Vert: H=-34(F=-17, B=-17) I=-13(F=-7, B=-7) J=-50(F=-25, B=-25)

Job 20083567	Truss E2	Truss Type Monopitch	Qty 2	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC
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 ID:r16G188vpH_Oqfn4vE1rAYzqDyf-nL65IngcMhDFHmRE4QcSptEbgrmORHECoOXGBoYhfbM



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 0.40 BC 0.50 WB 0.03 Matrix-MSH	DEFL. in (loc) l/defl L/d Vert(LL) 0.09 F >822 240 Vert(CT) -0.16 F >448 180 Horz(CT) 0.00 B n/a n/a	PLATES GRIP MT20 244/190 Weight: 22 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

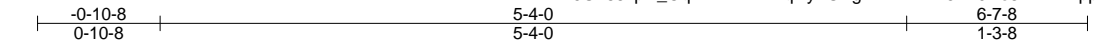
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=141/Mechanical, B=300/0-3-8 (min. 0-1-8), E=100/Mechanical
 Max Horz B=94(LC 6)
 Max Uplift D=52(LC 10), B=68(LC 6), E=5(LC 10)
 Max Grav D=141(LC 1), B=300(LC 1), E=104(LC 3)

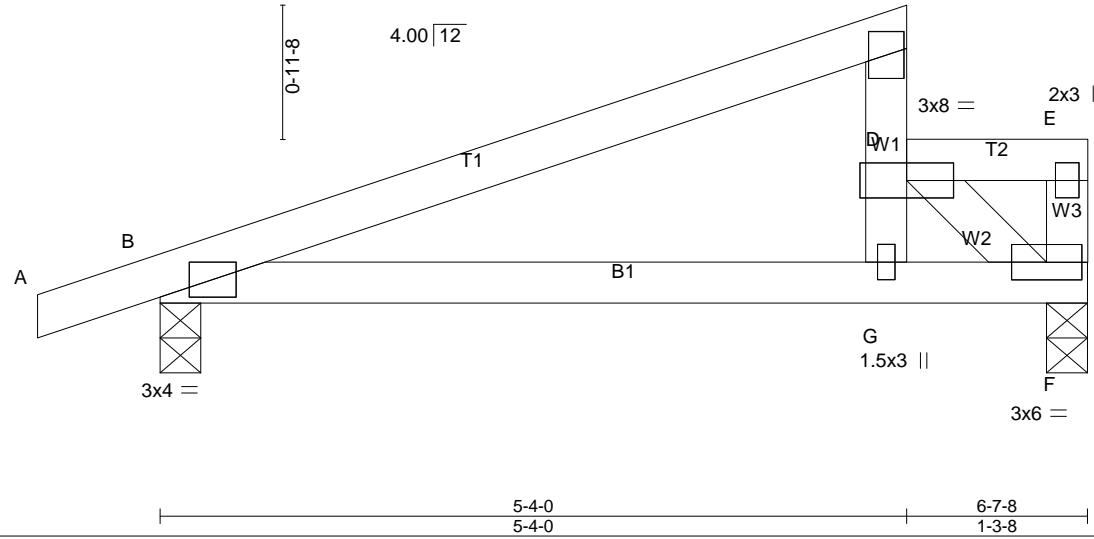
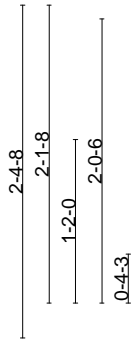
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/17, B-C=80/26, C-D=-39/39
 BOT CHORD B-F=0/0, E-F=0/0
 WEBS C-F=66/100

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 52 lb uplift at joint D, 68 lb uplift at joint B and 5 lb uplift at joint E.
 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Scale = 1:16.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) -0.01 G-J >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) -0.03 G-J >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.00 F n/a n/a		
	Code IRC2015/TPI2014			Weight: 53 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 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, 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.

REACTIONS. (lb/size) F=604/0-3-8 (min. 0-1-8), B=354/0-3-8 (min. 0-1-8)
 Max Horz B=100(LC 10)
 Max Uplift F=-107(LC 10), B=-83(LC 6)

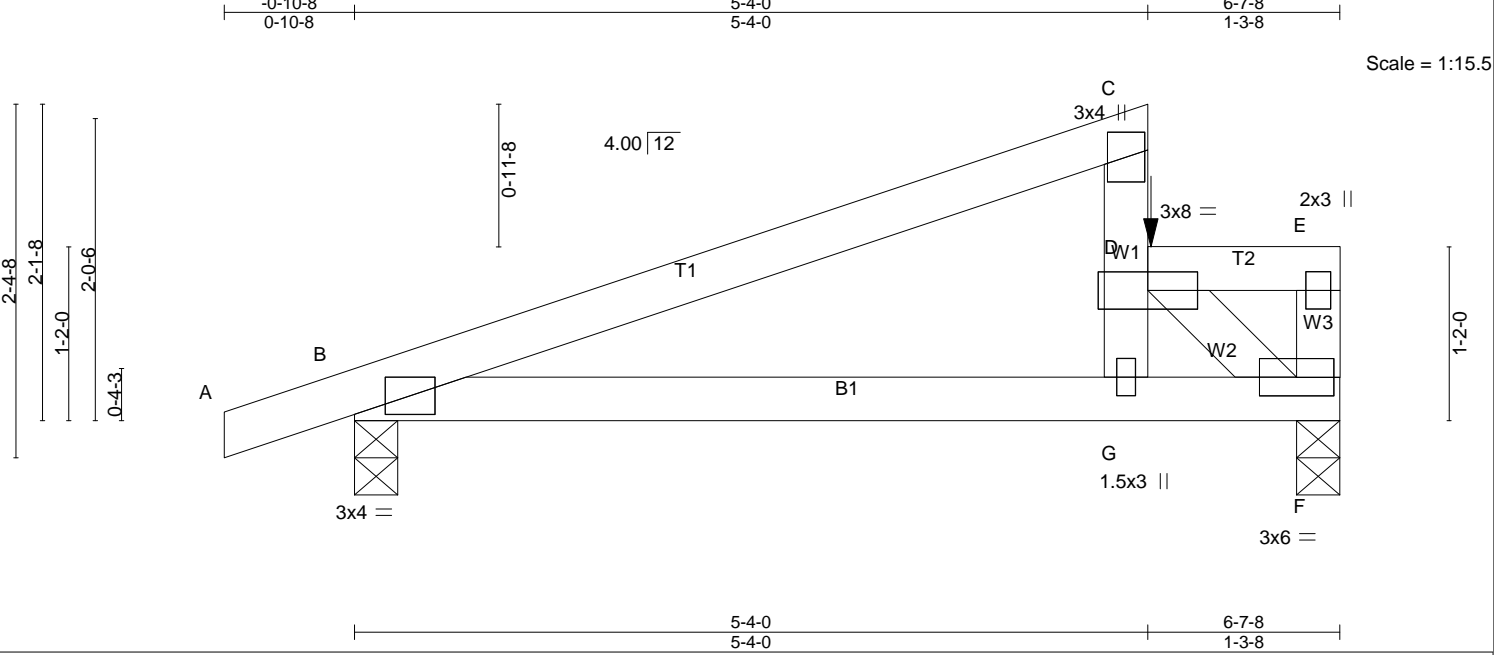
FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/17, B-C=-386/100, D-G=0/161, C-D=-477/1, D-E=-62/41, E-F=-301/136
 BOT CHORD B-G=-136/341, F-G=-208/511
 WEBS D-F=-552/243

- 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 0-8-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 6-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint F and 83 lb uplift at joint B.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). 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=-360(F=-300), F-H=-20

Job 20083567	Truss E4	Truss Type Half Hip	Qty 3	Ply 1	THE NELSON II LH ROOF
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.03 G-J >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.06 G-J >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.01 F n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH		Weight: 26 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.); D-G, D-E.
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	

REACTIONS. (lb/size) F=744/0-3-8 (min. 0-1-8), B=405/0-3-8 (min. 0-1-8)
 Max Horz B=94(LC 11)
 Max Uplift F=-130(LC 10), B=-86(LC 6)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/17, B-C=-532/162, D-G=0/143, C-D=-5/84, D-E=-74/46, E-F=-276/126
 BOT CHORD B-G=-195/481, F-G=-307/745
 WEBS D-F=-821/356

- 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) -0-10-8 to 6-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint F and 86 lb uplift at joint B.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)
 Vert: A-C=60, D-E=-260(F=-200), F-H=-20

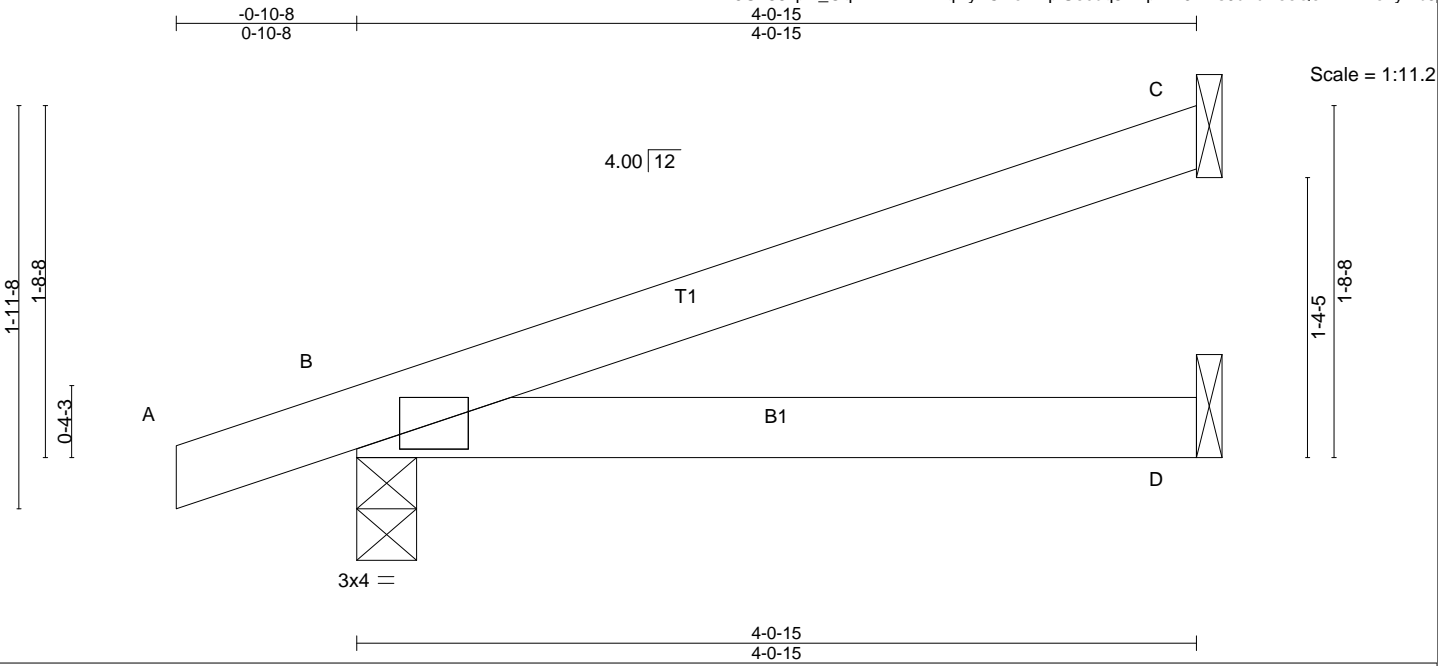
Concentrated Loads (lb)
 Vert: D=-320

Job 20083567	Truss E5	Truss Type Jack-Open	Qty 2	Ply 1	THE NELSON II LH ROOF
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) -0.01 D-G >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.03 D-G >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 B n/a n/a		
	Code IRC2015/TPI2014			Weight: 14 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) C=102/Mechanical, B=219/0-3-8 (min. 0-1-8), D=53/Mechanical
Max Horz B=67(LC 6)
Max Uplift C=45(LC 10), B=59(LC 6)
Max Grav C=102(LC 1), B=219(LC 1), D=72(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=0/17, B-C=37/26
BOT CHORD B-D=0/0

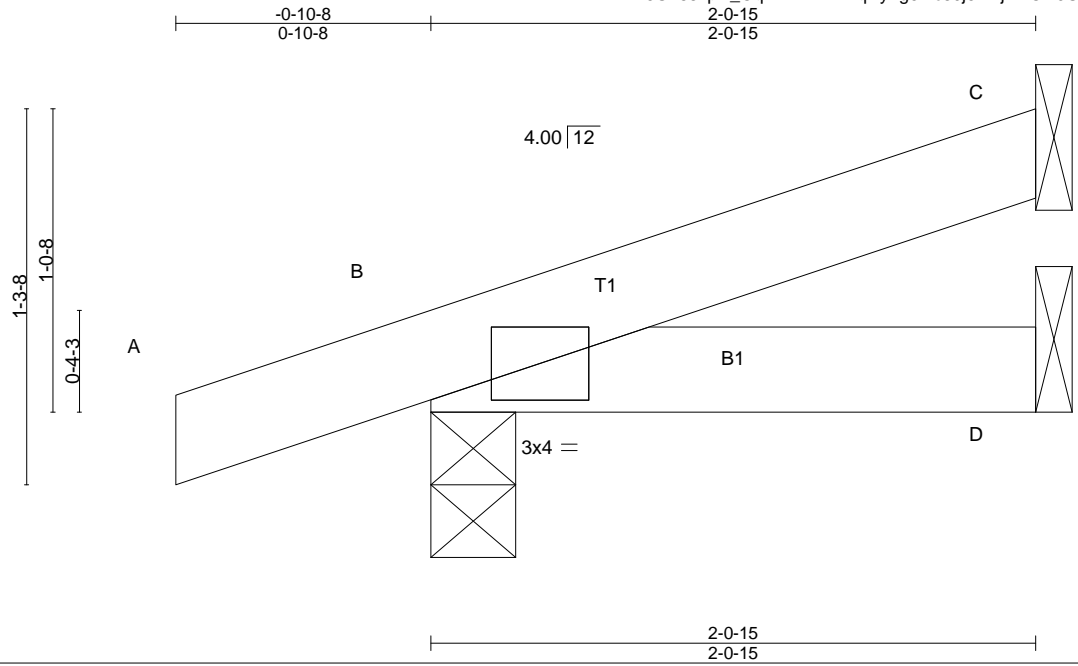
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for 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 45 lb uplift at joint C and 59 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 20083567	Truss E6	Truss Type Jack-Open	Qty 2	Ply 1	THE NELSON II LH ROOF
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Scale = 1:7.9

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 0.05	Vert(LL) -0.00 G >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 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: 8 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-0-15 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) C=44/Mechanical, B=145/0-3-8 (min. 0-1-8), D=25/Mechanical
 Max Horz B=41(LC 6)
 Max Uplift C=-18(LC 10), B=-53(LC 6)
 Max Grav C=44(LC 1), B=145(LC 1), D=34(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=0/17, B-C=-15/12
 BOT CHORD B-D=0/0

- NOTES-**
- 1) 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
 - 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 18 lb uplift at joint C and 53 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.

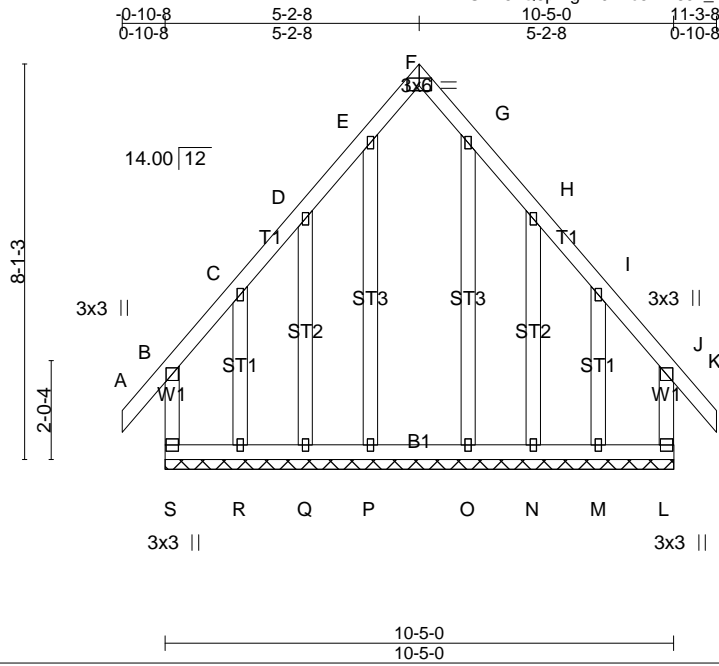
LOAD CASE(S) Standard

Job 20083567	Truss G1	Truss Type GABLE	Qty 1	Ply 1	THE NELSON II LH ROOF
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Scale = 1:47.2

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 0.31	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: 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=137/10-5-0 (min. 0-1-8), L=137/10-5-0 (min. 0-1-8), P=141/10-5-0 (min. 0-1-8), Q=99/10-5-0 (min. 0-1-8), R=89/10-5-0 (min. 0-1-8), O=141/10-5-0 (min. 0-1-8), N=99/10-5-0 (min. 0-1-8), M=89/10-5-0 (min. 0-1-8)
 Max Horz S=249(LC 8)
 Max Uplift S=208(LC 6), L=201(LC 7), Q=125(LC 10), R=255(LC 7), N=126(LC 11), M=250(LC 6)
 Max Grav S=280(LC 18), L=274(LC 17), P=208(LC 20), Q=103(LC 21), R=318(LC 8), O=207(LC 19), N=103(LC 22), M=313(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD B-S=-200/144, A-B=0/47, B-C=-180/176, C-D=-97/197, D-E=-218/381, E-F=-127/180, F-G=-127/180, G-H=-218/381, H-I=-97/197, I-J=-175/171, J-K=0/47, J-L=-196/139
 BOT CHORD R-S=-133/130, Q-R=-133/130, P-Q=-133/130, O-P=-133/130, N-O=-133/130, M-N=-133/130, L-M=-133/130
 WEBS E-P=-277/93, D-Q=-186/227, C-R=-180/166, G-O=-277/93, H-N=-186/227, I-M=-180/166

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable 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 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint S, 201 lb uplift at joint L, 125 lb uplift at joint Q, 255 lb uplift at joint R, 126 lb uplift at joint N and 250 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 20083567	Truss PA1	Truss Type Piggyback	Qty 11	Ply 1	THE NELSON II LH ROOF
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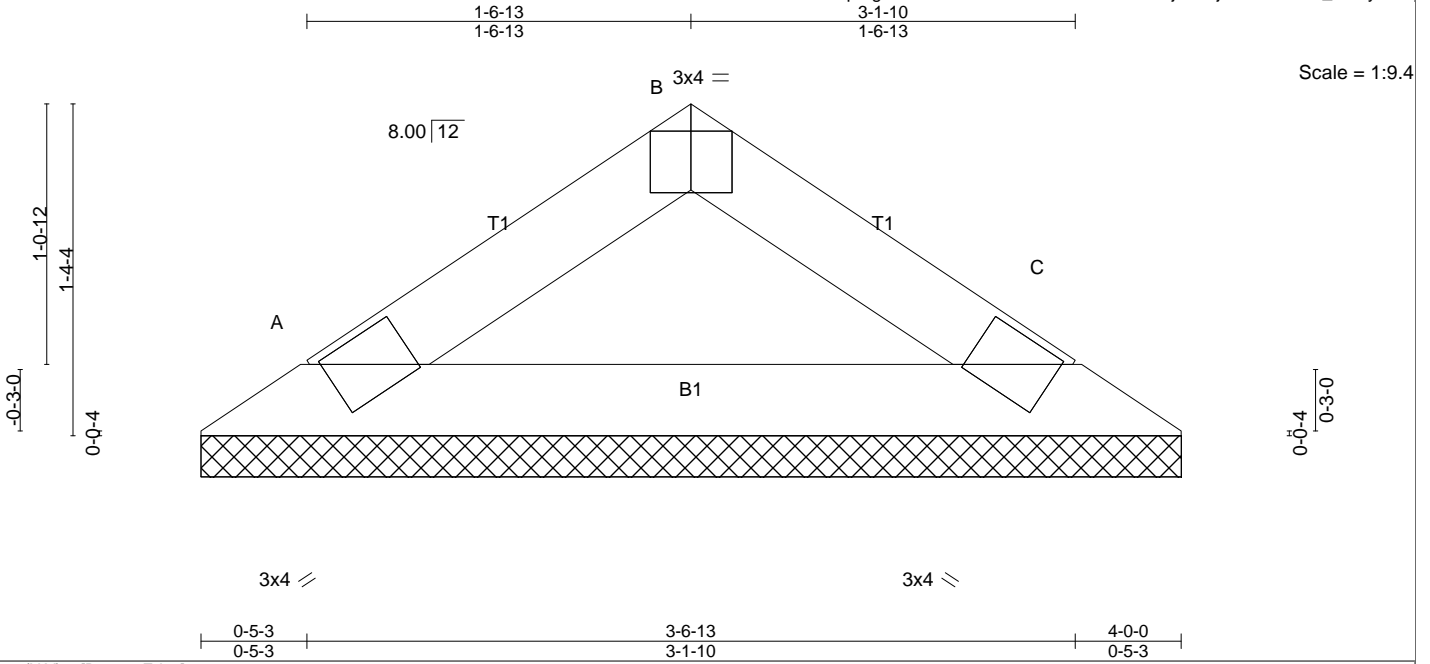


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	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 4-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=124/4-0-0 (min. 0-1-8), C=124/4-0-0 (min. 0-1-8)
Max Horz A=-26(LC 6)
Max Uplift A=-13(LC 10), C=-13(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-104/47, B-C=-104/47
BOT CHORD A-C=-14/70

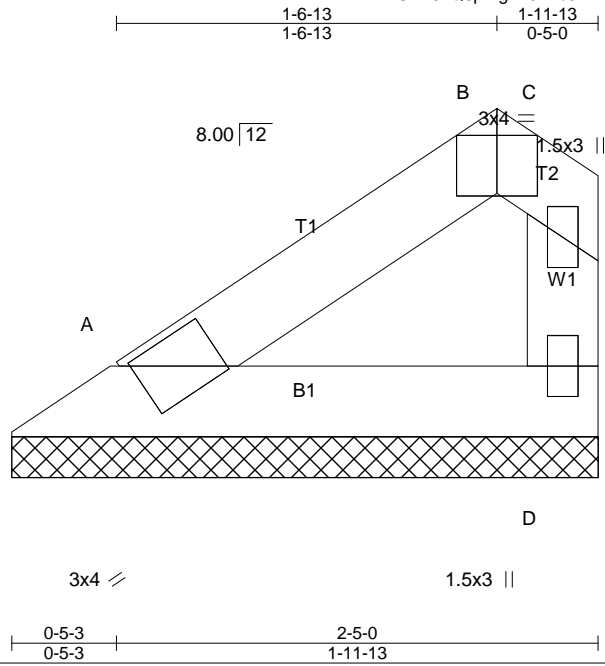
- NOTES-** (7)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; 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 20083567	Truss PA2	Truss Type Piggyback	Qty 6	Ply 1	THE NELSON II LH ROOF
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8.330 s Apr 7 2020 MITek Industries, Inc. Wed Sep 2 14:15:10 2020 Page 1
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Scale = 1:9.5

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 D n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R		Weight: 8 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 2-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=73/2-5-0 (min. 0-1-8), D=73/2-5-0 (min. 0-1-8)
Max Horz A=37(LC 7)
Max Uplift A=-7(LC 10), D=-15(LC 10)
Max Grav A=73(LC 1), D=74(LC 17)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-52/16, B-C=-49/33, C-D=-48/23
BOT CHORD A-D=-11/23

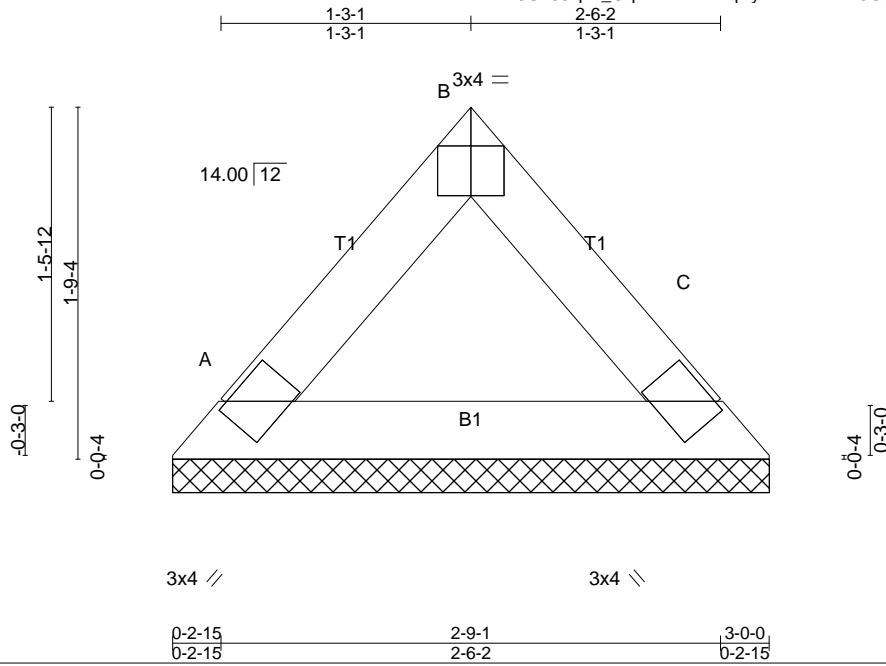
- NOTES-** (7)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; 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 20083567	Truss PD	Truss Type Piggyback	Qty 4	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8:330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:15:10 2020 Page 1
ID:r16G188vpH_Oqfn4vE1rAYzqDyf-4h1kmBl?r5GdrUa_OE5bLoudfGuaSQEP_k8xuyrnfB



Scale = 1:11.6

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 0.03	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	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: 10 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.

REACTIONS. (lb/size) A=96/3-0-0 (min. 0-1-8), C=96/3-0-0 (min. 0-1-8)
Max Horz A=-36(LC 6)
Max Uplift A=-9(LC 11), C=-9(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-70/34, B-C=-70/34
BOT CHORD A-C=-10/39

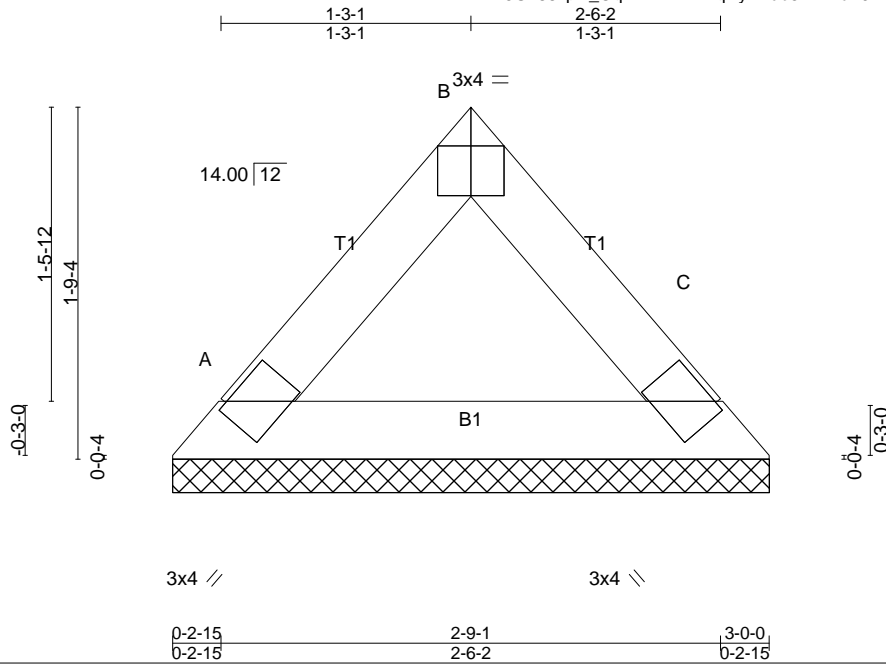
- NOTES-** (7)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; 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 20083567	Truss PD1	Truss Type PIGGYBACK	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:15:11 2020 Page 1
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Scale = 1:11.6

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 0.03	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	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: 10 lb	FT = 20%

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

REACTIONS. (lb/size) A=96/3-0-0 (min. 0-1-8), C=96/3-0-0 (min. 0-1-8)
Max Horz A=-36(LC 6)
Max Uplift A=-9(LC 11), C=-9(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-70/34, B-C=-70/34
BOT CHORD A-C=-10/39

- NOTES-** (7)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Piggyback cap bottom chord to be attached to 2x4 purlins located at each end of cap bottom chord and at 24" oc max spacing with two 16d nails each.

LOAD CASE(S) Standard

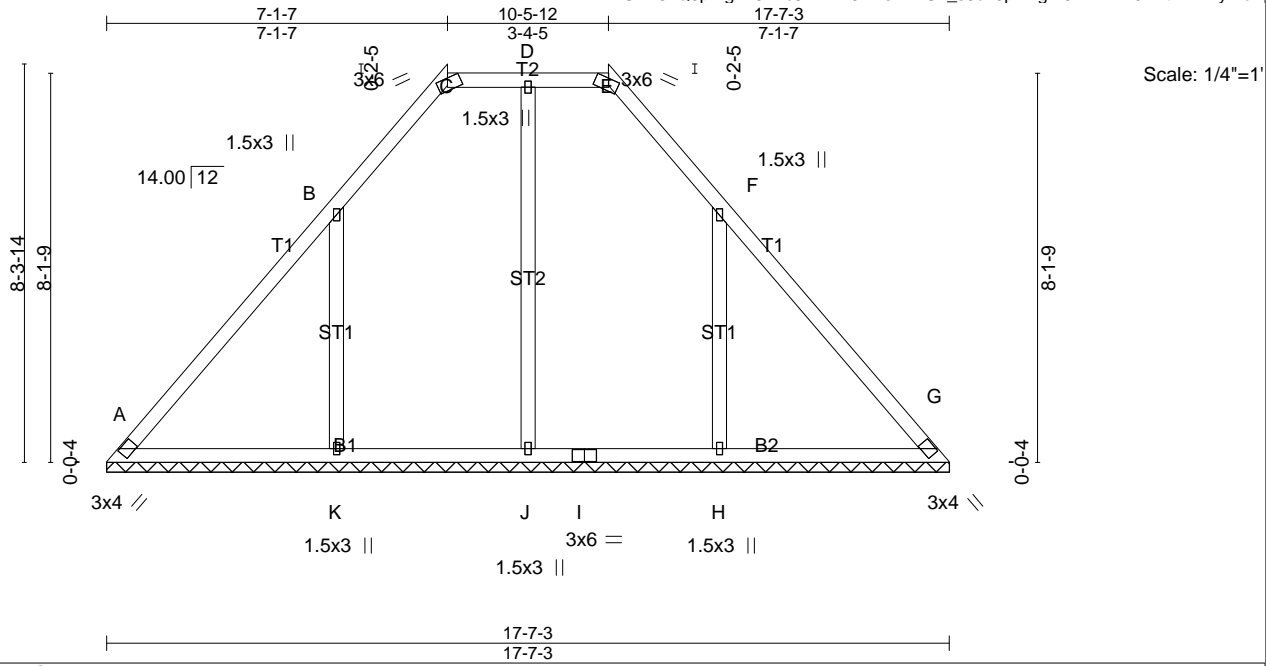


Plate Offsets (X,Y)-- [F:0-1-9,0-0-12]

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 0.26	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.01 G n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 89 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, except 2-0-0 oc purlins (6-0-0 max.); C-E.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=208/17-7-3 (min. 0-2-4), G=208/17-7-3 (min. 0-2-4), K=375/17-7-3 (min. 0-2-4), J=193/17-7-3 (min. 0-2-4), H=375/17-7-3 (min. 0-2-4)
 Max Horz A=-203(LC 6)
 Max Uplift A=-15(LC 6), G=-3(LC 7), K=-299(LC 10), J=-5(LC 7), H=-297(LC 11)
 Max Grav A=245(LC 19), G=239(LC 20), K=513(LC 17), J=323(LC 20), H=511(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-277/174, B-C=-164/81, C-D=-75/76, D-E=-75/76, E-F=-164/81, F-G=-269/175
 BOT CHORD A-K=-168/247, J-K=-168/247, I-J=-168/247, H-I=-168/247, G-H=-168/247
 WEBS B-K=-380/320, D-J=-136/51, F-H=-380/317

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint A, 3 lb uplift at joint G, 299 lb uplift at joint K, 5 lb uplift at joint J and 297 lb uplift at joint H.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 20083567	Truss V2	Truss Type GABLE	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8:330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:15:14 2020 Page 1

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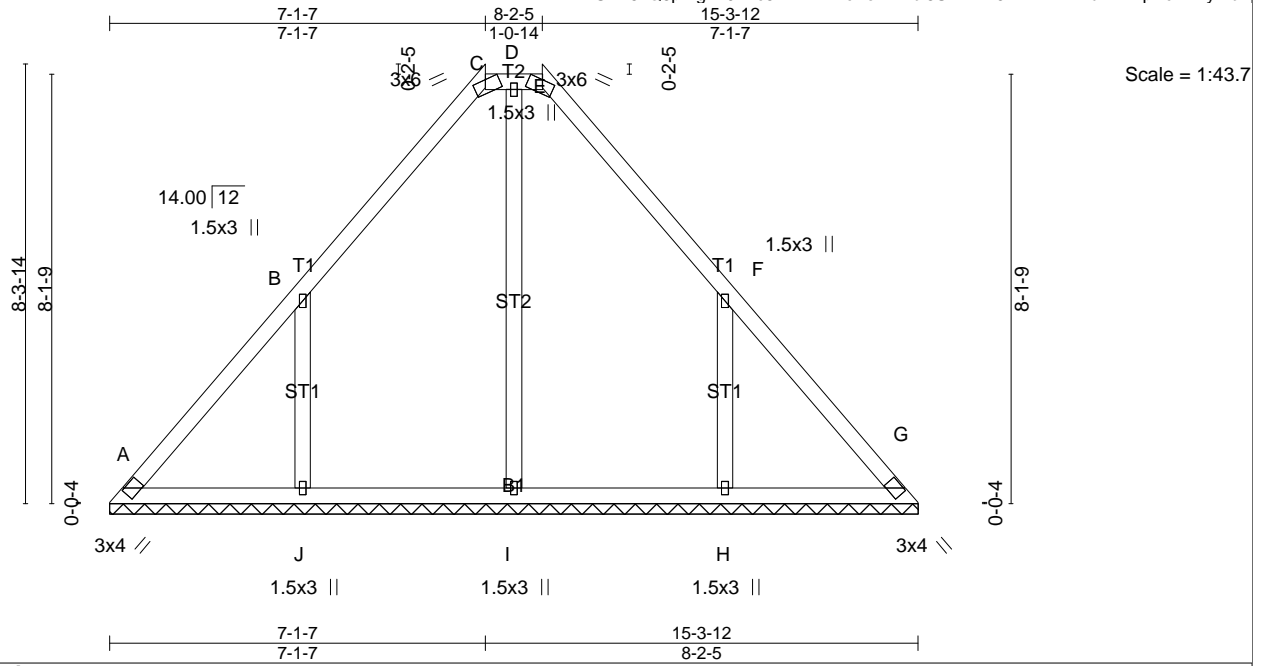


Plate Offsets (X,Y)-- [F:0-0-0,0-0-0]

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 0.18	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 0.16	Horz(CT) 0.00 G n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 78 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
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): C-E.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=171/15-3-12 (min. 0-2-0), G=171/15-3-12 (min. 0-2-0), J=327/15-3-12 (min. 0-2-0), I=183/15-3-12 (min. 0-2-0), H=327/15-3-12 (min. 0-2-0)
 Max Horz A=203(LC 7)
 Max Uplift A=-52(LC 6), G=-23(LC 7), J=-278(LC 10), H=-277(LC 11)
 Max Grav A=207(LC 18), G=187(LC 20), J=464(LC 17), I=354(LC 20), H=463(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-228/159, B-C=-187/161, C-D=-157/163, D-E=-157/163, E-F=-187/161, F-G=-207/121
 BOT CHORD A-J=90/172, I-J=90/172, H-I=-90/172, G-H=-90/172
 WEBS B-J=-359/306, D-I=-139/47, F-H=-359/305

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint A, 23 lb uplift at joint G, 278 lb uplift at joint J and 277 lb uplift at joint H.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 20083567	Truss V3	Truss Type VALLEY	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC
 8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:15:15 2020 Page 1
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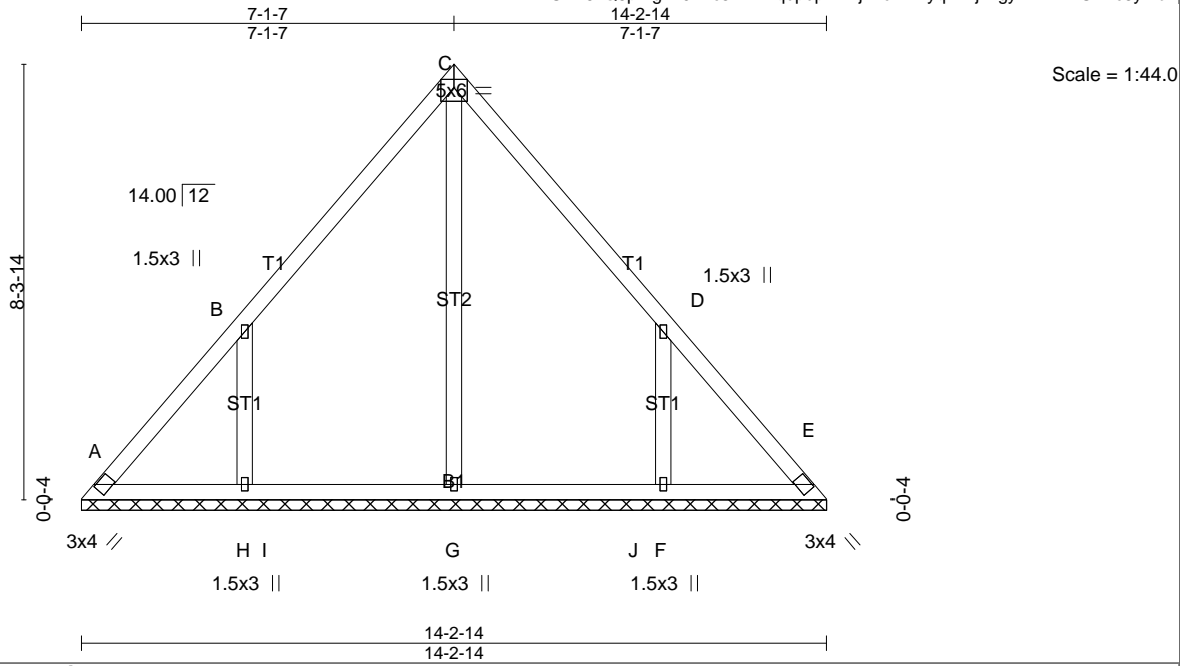


Plate Offsets (X,Y)-- [C:Edge,0-1-14], [D:0-0-0,0-0-0]

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 0.20	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 0.17	Horz(CT) 0.00 E n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 73 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=124/14-2-13 (min. 0-1-14), E=124/14-2-13 (min. 0-1-14), G=206/14-2-13 (min. 0-1-14), H=318/14-2-13 (min. 0-1-14), F=318/14-2-13 (min. 0-1-14)
 Max Horz A=206(LC 9)
 Max Uplift A=-59(LC 6), E=-29(LC 7), H=-280(LC 10), F=-280(LC 11)
 Max Grav A=180(LC 19), E=166(LC 20), G=356(LC 20), H=439(LC 17), F=438(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-229/171, B-C=-183/146, C-D=-164/141, D-E=-204/131
 BOT CHORD A-H=-98/173, H-I=-98/173, G-I=-98/173, G-J=-98/173, F-J=-98/173, E-F=-98/173
 WEBS C-G=-141/6, B-H=-374/318, D-F=-374/318

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint A, 29 lb uplift at joint E, 280 lb uplift at joint H and 280 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 20083567	Truss V4	Truss Type Valley	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC 8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:15:16 2020 Page 1
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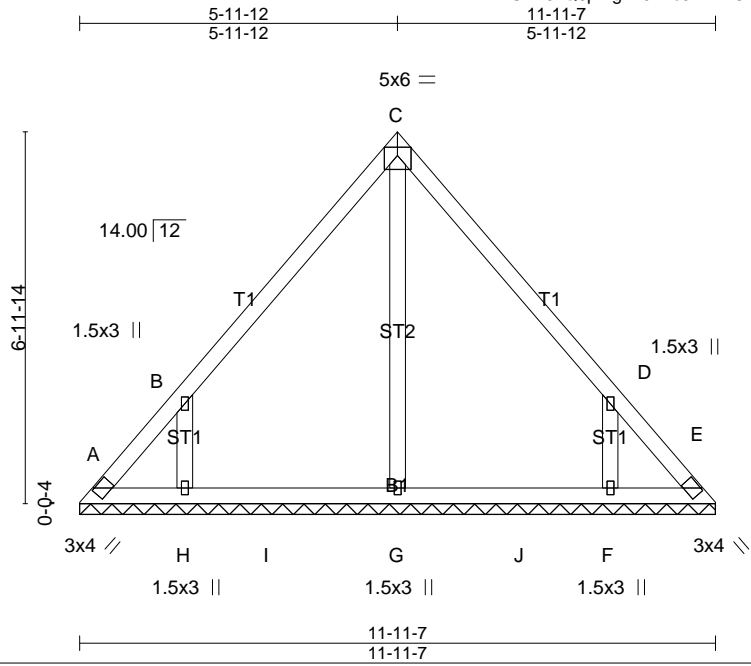


Plate Offsets (X,Y)-- [C:Edge,0-1-14]

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 0.16	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 E n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-SH		Weight: 58 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=62/11-11-6 (min. 0-1-8), E=62/11-11-6 (min. 0-1-8), G=211/11-11-6 (min. 0-1-8), H=286/11-11-6 (min. 0-1-8), F=286/11-11-6 (min. 0-1-8)
 Max Horz A=-171(LC 6)
 Max Uplift A=-96(LC 8), E=-71(LC 9), H=-259(LC 10), F=-258(LC 11)
 Max Grav A=171(LC 10), E=155(LC 11), G=320(LC 20), H=380(LC 17), F=380(LC 18)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-231/164, B-C=-181/123, C-D=-163/120, D-E=-210/131
 BOT CHORD A-H=-71/136, H-I=-71/136, G-I=-71/136, G-J=-71/136, F-J=-71/136, E-F=-71/136
 WEBS C-G=-125/0, B-H=-365/322, D-F=-365/322

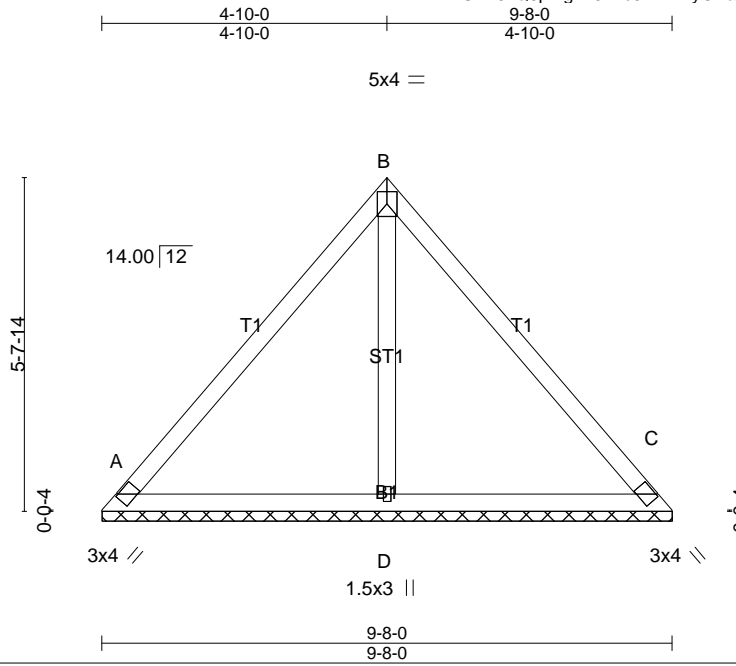
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end 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 96 lb uplift at joint A, 71 lb uplift at joint E, 259 lb uplift at joint H and 258 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 20083567	Truss V5	Truss Type Valley	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:15:17 2020 Page 1
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Scale = 1:39.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	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 0.08	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: 43 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=205/9-7-15 (min. 0-1-8), C=205/9-7-15 (min. 0-1-8), D=316/9-7-15 (min. 0-1-8)
Max Horz A=-137(LC 6)
Max Uplift A=-36(LC 11), C=-23(LC 10), D=-24(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-196/96, B-C=-179/81
BOT CHORD A-D=-46/97, C-D=-46/97
WEBS B-D=-156/44

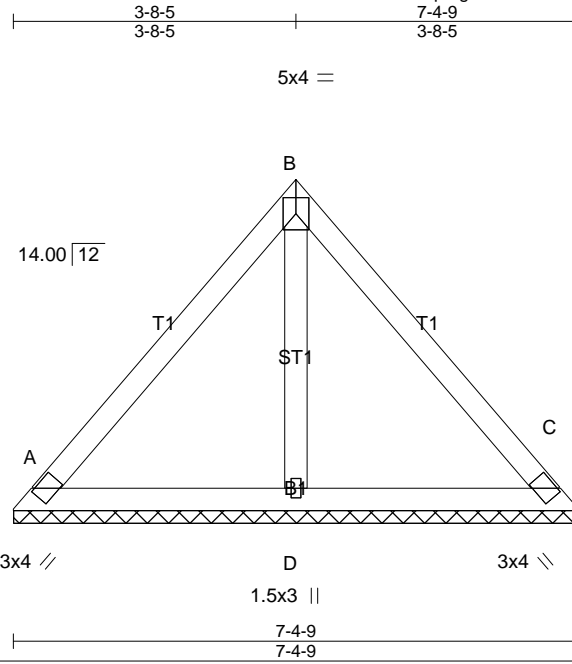
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 36 lb uplift at joint A, 23 lb uplift at joint C and 24 lb uplift at joint D.
 - Non Standard bearing condition. Review required.
 - 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 20083567	Truss V6	Truss Type Valley	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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Scale = 1:30.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	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: 32 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=153/7-4-9 (min. 0-1-8), C=153/7-4-9 (min. 0-1-8), D=236/7-4-9 (min. 0-1-8)
Max Horz A=-102(LC 6)
Max Uplift A=-27(LC 11), C=-17(LC 10), D=-18(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-146/71, B-C=-134/64
BOT CHORD A-D=-34/73, C-D=-34/73
WEBS B-D=-117/36

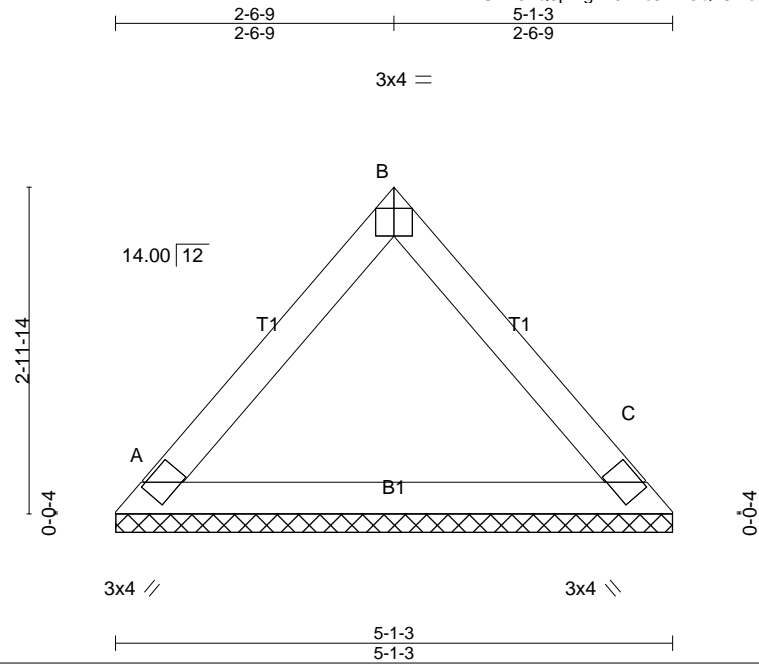
NOTES-

- 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 27 lb uplift at joint A, 17 lb uplift at joint C and 18 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 20083567	Truss V7	Truss Type Valley	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC
 8.330 s Apr 7 2020 MiTek Industries, Inc. Wed Sep 2 14:15:19 2020 Page 1
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Scale = 1:21.1

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 0.10	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	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: 18 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 5-1-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=180/5-1-2 (min. 0-1-8), C=180/5-1-2 (min. 0-1-8)
 Max Horz A=-68(LC 6)
 Max Uplift A=-18(LC 11), C=-18(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD A-B=-139/64, B-C=-139/64
 BOT CHORD A-C=-13/87

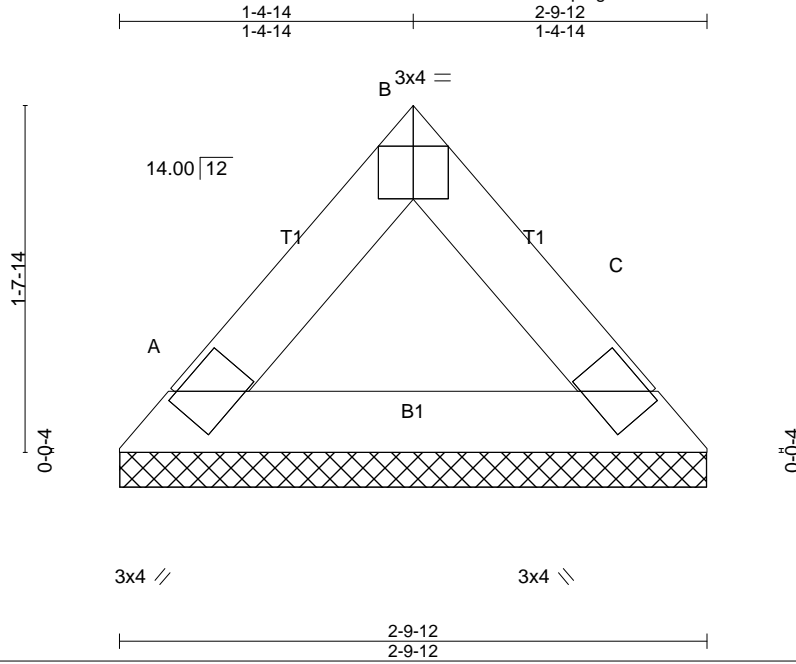
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 18 lb uplift at joint A and 18 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 20083567	Truss V8	Truss Type Valley	Qty 1	Ply 1	THE NELSON II LH ROOF
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC

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Scale = 1:11.0

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 0.03	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	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: 9 lb	FT = 20%

LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2	BRACING- TOP CHORD Structural wood sheathing directly applied or 2-10-2 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS. (lb/size) A=88/2-9-11 (min. 0-1-8), C=88/2-9-11 (min. 0-1-8) Max Horz A=-33(LC 6) Max Uplift A=-9(LC 11), C=-9(LC 10)	
FORCES. (lb) - Maximum Compression/Maximum Tension TOP CHORD A-B=-64/31, B-C=-64/31 BOT CHORD A-C=-9/36	

- 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 9 lb uplift at joint A and 9 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