Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	A2	ATTIC	15	1	Job Reference (optional)

Scale = 1:77.7

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.26	L-N	>765	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.33	N-P	>593	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	K	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MSH		Attic	-0.26	L-N	844	360	Weight: 289 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
W2: 2x6 SP No.2, W4: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-2 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): E-G.
BOT CHORD Rigid ceiling directly applied or 8-4-3 oc bracing.
JOINTS 1 Brace at Jt(s): Q

REACTIONS. (lb/size) A=1403/0-4-0, K=1403/0-4-0, N=668/0-3-8
Max Horz A=-220(LC 6)
Max Grav A=1403(LC 1), K=1403(LC 1), N=1476(LC 16)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-1473/41, B-C=-1281/130, C-D=-1098/171, D-E=-428/62, E-F=-210/49, F-G=-210/49, G-H=-428/63, H-I=-1098/171, I-J=-1281/130, J-K=-1473/41
BOT CHORD A-P=0/1017, O-P=0/1017, N-O=0/1017, M-N=0/1017, L-M=0/1017, K-L=0/1017
WEBS B-P=-378/190, J-L=-378/188, D-Q=-886/203, H-Q=-886/203, F-Q=0/75

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; 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-D, H-J, D-Q, H-Q
7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. N-P, L-N
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

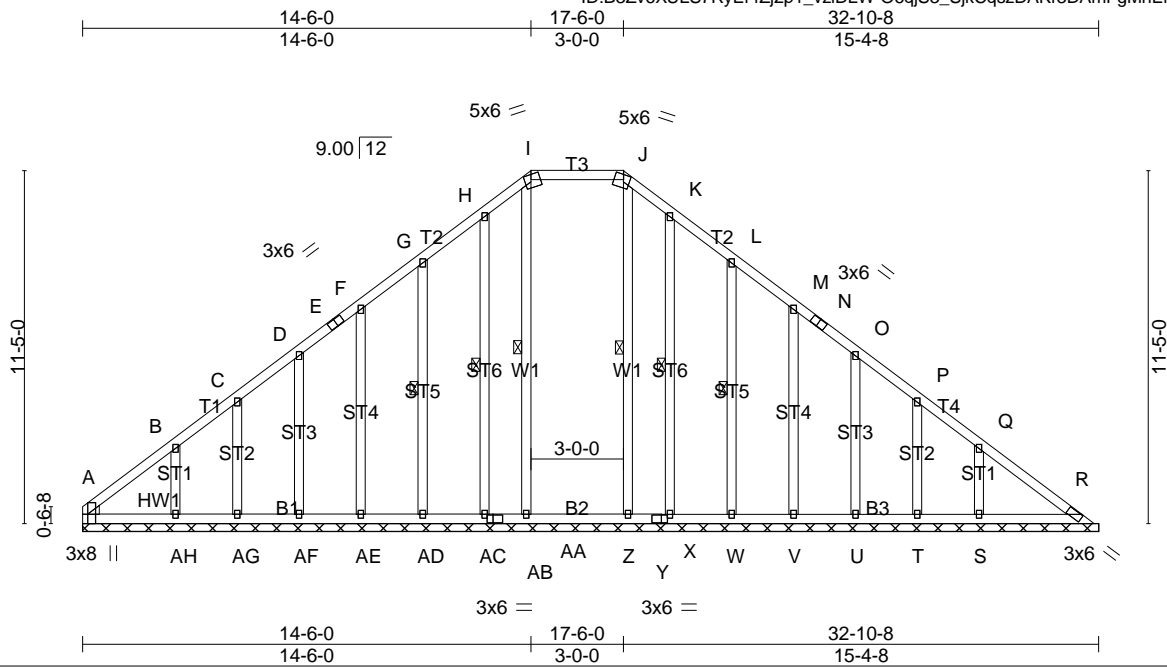| Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	A2E	GABLE	2	1	Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:46:51 2019 Page 1
ID:B3Zv6XULS7RyEf4Zj2p1_vzIDLW-O6qjS3_SjkCqszDAKr3DAmFgMnElAPzkcATC7qzS8Yl

Plate Offsets (X,Y)-- [A:0-3-8,Edge], [A:0-0-0,0-4-15], [A:0-0-0,0-0-15], [I:0-3-0,0-0-4], [J:0-3-0,0-0-4], [Y:0-2-6,0-1-8], [AB:0-2-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	R	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014		Matrix-SH								Weight: 247 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
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 6-0-0 oc purlins, except
             2-0-0 oc purlins (6-0-0 max.): I-J.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS   1 Row at midpt   H-AC, G-AD, K-X, L-W, I-AA, J-Z

REACTIONS. (lb/size)   A=144/32-10-8, AC=153/32-10-8, AD=208/32-10-8, AE=197/32-10-8, AF=208/32-10-8, AG=167/32-10-8, AH=292/32-10-8, X=153/32-10-8, W=208/32-10-8, V=196/32-10-8,
U=213/32-10-8, T=149/32-10-8, S=335/32-10-8, R=158/32-10-8, AA=217/32-10-8, Z=217/32-10-8
Max Horz A=-215(LC 6)
Max UpliftA=-62(LC 6), AC=-46(LC 10), AD=-49(LC 10), AE=-46(LC 10), AF=-49(LC 10), AG=-37(LC 10), AH=-94(LC 10), X=-44(LC 11), W=-50(LC 11), V=-45(LC 11), U=-49(LC 11),
T=-35(LC 11), S=-78(LC 11)
Max GravA=192(LC 20), AC=153(LC 22), AD=208(LC 1), AE=197(LC 22), AF=208(LC 1), AG=167(LC 22), AH=299(LC 18), X=153(LC 23), W=208(LC 19), V=196(LC 23), U=213(LC 1),
T=149(LC 23), S=335(LC 23), R=165(LC 21), AA=306(LC 21), Z=296(LC 21)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD   A-B=-229/194, B-C=-172/143, C-D=-152/132, D-E=-142/117, E-F=-95/127, F-G=-130/156, G-H=-167/189, H-I=-199/222, I-J=-166/190,
J-K=-199/222, K-L=-167/182, L-M=-118/125, M-N=-54/72, N-O=-88/63, O-P=-91/52, P-Q=-124/60, Q-R=-177/109
BOT CHORD   A-AH=-97/159, AG-AH=-97/159, AF-AG=-97/159, AE-AF=-97/159, AD-AE=-97/159, AC-AD=-97/159, AB-AC=-97/159, AA-AB=-97/159,
Z-AA=-98/160, Y-Z=-97/159, X-Y=-97/159, W-X=-97/159, V-W=-97/159, U-V=-97/159, T-U=-97/159, S-T=-97/159, R-S=-97/159
WEBS   H-AC=-134/59, G-AD=-164/75, F-AE=-159/69, D-AF=-164/72, C-AG=-141/62, B-AH=-221/114, K-X=-132/57, L-W=-164/76, M-V=-158/69,
O-U=-167/73, P-T=-130/60, Q-S=-245/102, I-AA=-181/37, J-Z=-171/37

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; 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 2x3 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
   chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint A, 46 lb uplift at joint AC, 49 lb uplift at joint AD
   , 46 lb uplift at joint AE, 49 lb uplift at joint AF, 37 lb uplift at joint AG, 94 lb uplift at joint AH, 44 lb uplift at joint X, 50 lb uplift at joint W, 45 lb uplift at joint V, 49
   lb uplift at joint U, 35 lb uplift at joint T and 78 lb uplift at joint S.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	B1G	GABLE	2	1	Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:46:52 2019 Page 1
ID:B3Zv6XULS7RyEf4Zj2p1_vzIDLW-sJO5gP?4U1KhU7oMuZaSjzosQBbvvuZurqClfHzS8YH

7-10-8   15-9-0
7-10-8   7-10-8

3x6 ═

Scale = 1:35.8

9.00 ⌐12

5-9-8

3x4 ⫽   O   N   M   L   K   J   3x4 ⟍

0-1-13   15-9-0
0-1-13   15-7-3
    15-5-5
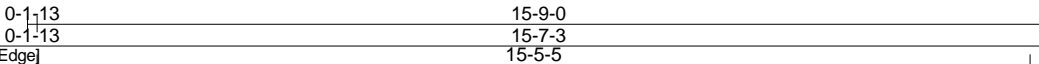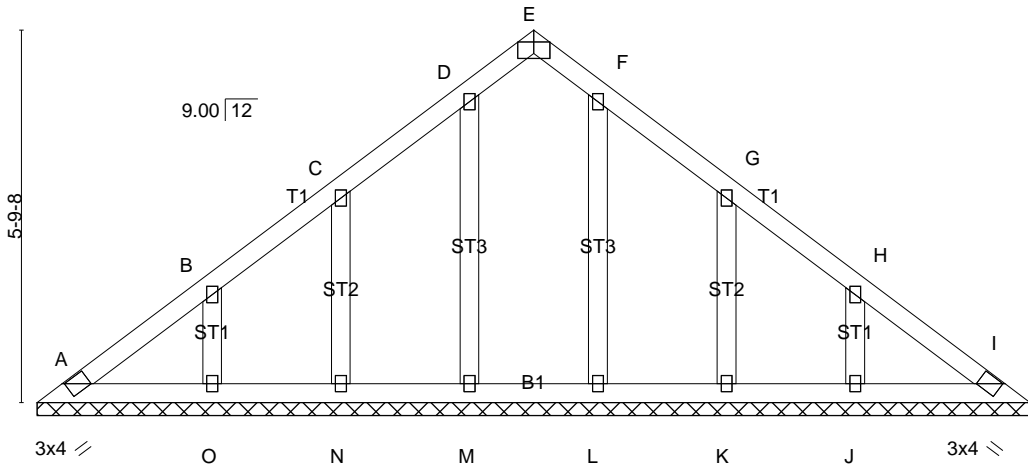
Plate Offsets (X,Y)-- [E:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 77 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=111/15-5-5, I=111/15-5-5, M=180/15-5-5, N=191/15-5-5, O=247/15-5-5, L=180/15-5-5, K=191/15-5-5, J=247/15-5-5
Max Horz A=-106(LC 6)
Max UpliftM=-8(LC 10), N=-52(LC 10), O=-56(LC 10), K=-54(LC 11), J=-55(LC 11)
Max GravA=122(LC 19), I=117(LC 20), M=180(LC 1), N=192(LC 21), O=247(LC 1), L=180(LC 1), K=192(LC 22), J=247(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-136/88, B-C=-104/50, C-D=-87/38, D-E=-68/43, E-F=-68/43, F-G=-80/27, G-H=-95/34, H-I=-127/88
BOT CHORD A-O=-77/117, N-O=-77/117, M-N=-77/117, L-M=-77/117, K-L=-77/117, J-K=-77/117, I-J=-77/117
WEBS D-M=-139/32, C-N=-158/77, B-O=-185/76, F-L=-139/23, G-K=-158/79, H-J=-185/76
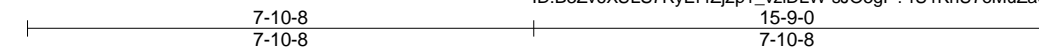
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end
   zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions
   shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only.
4) All plates are 2x3 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
   chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint M, 52 lb uplift at joint N, 56 lb uplift at joint O, 54
   lb uplift at joint K and 55 lb uplift at joint J.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	B2	Common	15	1	
					Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:46:53 2019 Page 1
ID:B3Zv6XULS7RyEf4Zj2p1_vzlDLW-LVxUtl?iFLSY6HNZSG6hFBKsJaq5eJP14UyJCjzS8YG

Scale = 1:44.3

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.06	G-H	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.10	G-H	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	F	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MSH							Weight: 64 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 4-10-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) F=788/0-4-0, H=788/0-4-0
Max Horz H=114(LC 7)
Max Uplift F=-10(LC 11), H=-10(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-419/0, B-C=-727/78, C-D=-727/78, D-E=-419/0
BOT CHORD A-H=0/484, H-O=0/484, G-O=0/484, G-P=0/484, F-P=0/484, E-F=0/484
WEBS C-G=0/315, D-F=-776/305, B-H=-776/305

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; 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 10 lb uplift at joint F and 10 lb uplift at joint H.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	B3	Common	8	1	Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:46:54 2019 Page 1
ID:B3Zv6XULS7RyEf4Zj2p1_vzlDLW-phVs450K0faPjRyl0_dwoOt?Y_5VNnMBJ8hsk9zS8YF
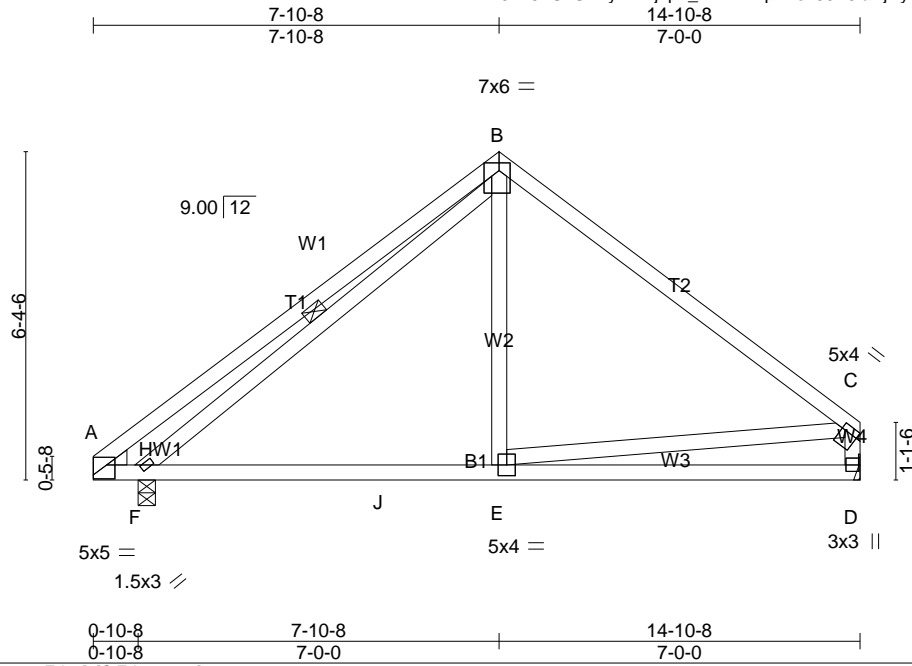
Scale = 1:44.7

Plate Offsets (X,Y)-- [A:0-0-0,0-0-14], [B:0-3-8,Edge], [C:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.05	D-E	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.10	D-E	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MSH							Weight: 84 lb	FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.1 *Except*
          T2: 2x4 SP No.2
BOT CHORD   2x4 SP No.2
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.2

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

REACTIONS.   (lb/size)   D=691/Mechanical, F=782/0-4-0
         Max Horz F=125(LC 9)
         Max UpliftD=-4(LC 11), F=-9(LC 10)

FORCES.   (lb) - Maximum Compression/Maximum Tension
TOP CHORD   A-B=-704/235, B-C=-718/71, C-D=-628/71
BOT CHORD   A-F=-66/402, F-J=0/460, E-J=0/460, D-E=-77/275
WEBS   B-E=0/283, B-F=-233/120, C-E=-40/281

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; 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 4 lb uplift at joint D and 9 lb uplift at joint F.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)   Standard

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	B4L	Common Girder	1	**2**	
					Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:47:02 2019 Page 1
ID:B3Zv6XULS7RyEf4Zj2p1_vzlDLW-aE_tmq6L86bGhfZHUfmo64CRlDnlFKwM8NdH0hzS8Y7

Scale = 1:43.8

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) -0.08 F-G >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.14 F-G >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.33	Horz(CT) 0.02 E n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH		Weight: 193 lb FT = 20%

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

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

REACTIONS. (lb/size) A=2781/0-4-0, E=2818/0-4-0
Max Horz A=114(LC 5)
Max UpliftA=-59(LC 8), E=-60(LC 9)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-2908/83, B-C=-2749/137, C-D=-2756/137, D-E=-2915/83
BOT CHORD A-P=-80/2188, P-Q=-80/2188, G-Q=-80/2188, G-R=-6/1578, R-S=-6/1578, F-S=-6/1578, F-T=-24/2194, T-U=-24/2194, E-U=-24/2194
WEBS C-F=-90/1574, D-F=-201/175, C-G=-90/1560, B-G=-201/176

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; 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
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint A and 60 lb uplift at joint E.
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) Use USP JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-11-4 from the left end to 12-11-4 to connect truss(es) B3 (1 ply 2x4 SP) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-C=-80, C-E=-80, H-L=-20
   Concentrated Loads (lb)
      Vert: P=-671(B) Q=-671(B) R=-671(B) S=-671(B) T=-671(B) U=-671(B)

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	M1	JACK-CLOSED	5	1	

Job Reference (optional)

4-9-0   4-10-8
4-9-0   0-1-8

Scale = 1:13.4

B

1.5x3

4.00 12

T1

2-1-0

W1

1-9-8

2-1-0

A

0-5-8

HW1

B1

C

0-3-8

3x4

1.5x3

3x6

0-10-8   4-10-8
0-10-8   4-0-0

Plate Offsets (X,Y)-- [A:0-0-9,0-0-10], [A:0-0-5,0-10-9]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	C-H	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.02	C-H	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	A	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 18 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=290/0-3-8, C=183/0-1-8
Max Horz A=55(LC 9)
Max Uplift A=-13(LC 6), C=-17(LC 10)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-57/32, B-C=-130/51
BOT CHORD A-C=-25/27

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Bearing at joint(s) C considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) C.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint A and 17 lb uplift at joint C.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
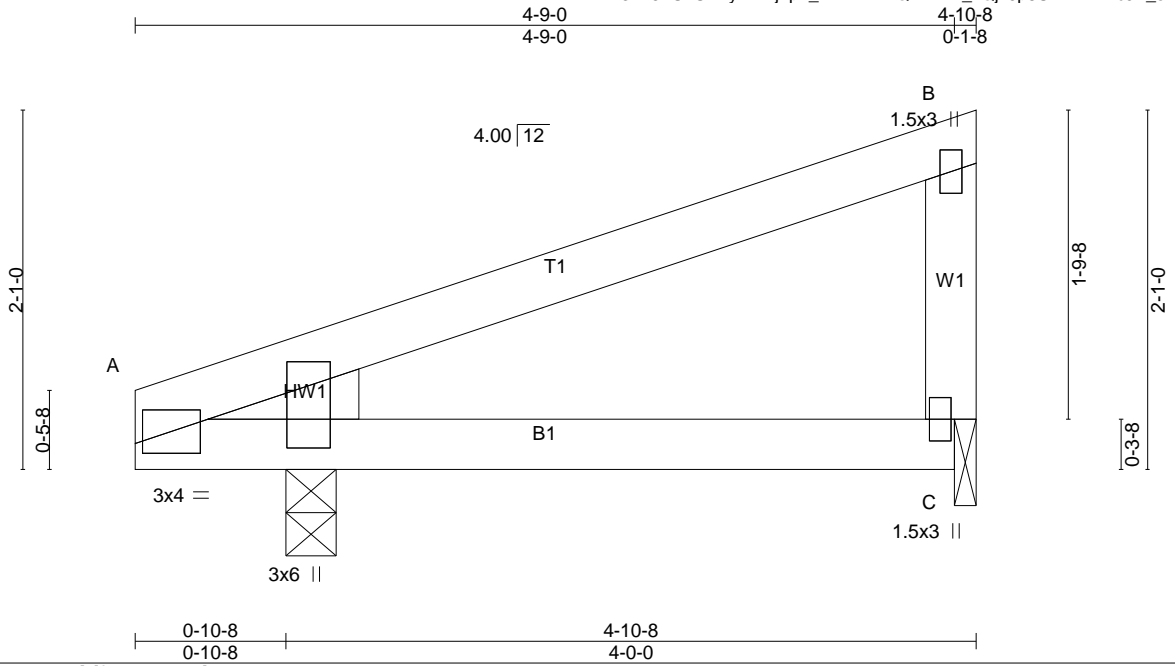
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	M2	JACK-CLOSED	12	1	Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:47:03 2019 Page 1
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8-3-8

13-11-8

8-3-8

5-8-0

C   D

Scale = 1:32.9

0-4-14

4.00 ⌐12

3x4 ||

B

5-1-5

T1

4-7-5

5-1-5

W1

A

HW1

0-5-8

B1

W1

E

3x4 =

3x3 ||

3x6 ||

0-10-8

8-3-8

0-10-8

7-5-0

Plate Offsets (X,Y)-- [A:0-0-9,0-0-10], [A:0-0-5,0-10-9]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.08	E-J	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.18	E-J	>549	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MSH							Weight: 40 lb	FT = 20%

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

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

REACTIONS. (lb/size) E=675/0-3-8, A=413/0-3-8, C=192/0-3-8
Max Horz A=133(LC 7)
Max UpliftE=-119(LC 10), C=-50(LC 6)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-153/32, B-C=-86/36, C-D=-11/0, B-E=-574/226
BOT CHORD A-E=-15/67

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; 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 119 lb uplift at joint E and 50 lb uplift at joint C.
5) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) C.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	M2E	GABLE	2	1	Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:47:04 2019 Page 1
ID:B3Zv6XULS7RyEf4Zj2p1_vzIDLW-Wc6eBW8cfjr_wzjgb4oGCVIoE0fmjHhfch6O5azS8Y5

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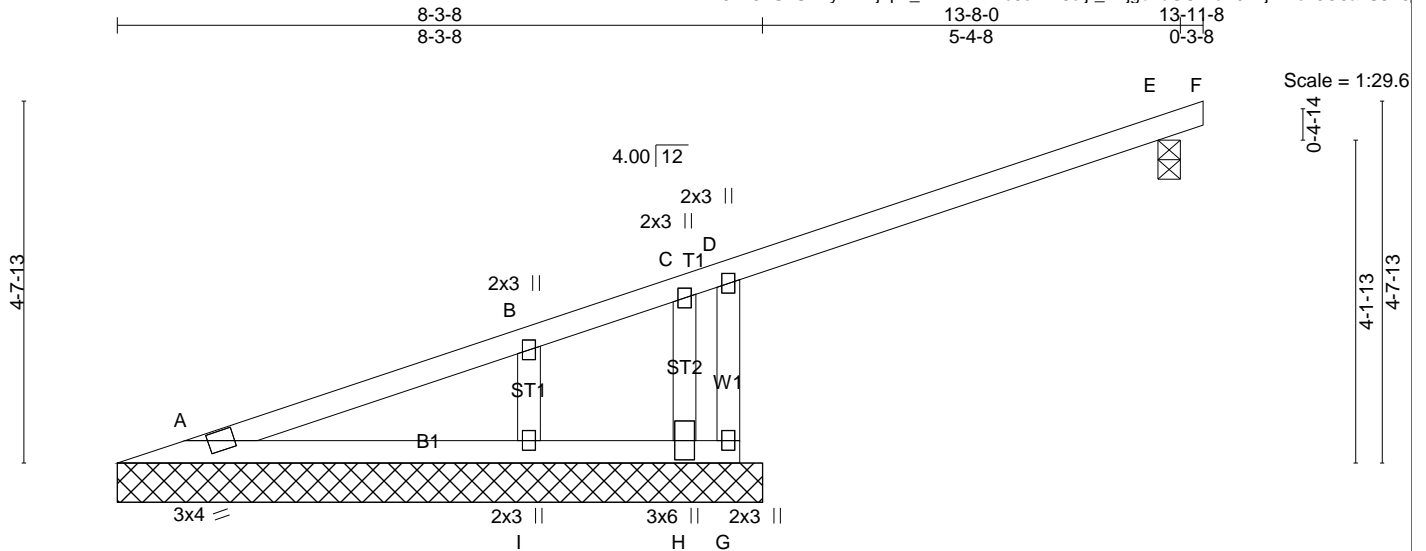
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.01	A-I	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.02	A-I	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 40 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.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)   A=179/8-3-8, G=805/8-3-8, H=-473/8-3-8, I=458/8-3-8, E=215/0-3-8
            Max Horz A=131(LC 6)
            Max Uplift G=-204(LC 6), H=-473(LC 1), I=-42(LC 6), E=-56(LC 6)
            Max Grav A=179(LC 1), G=805(LC 1), H=122(LC 6), I=458(LC 1), E=215(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD   A-B=-169/70, B-C=-111/32, C-D=-159/158, D-E=-86/43, E-F=-11/0
BOT CHORD   A-I=0/0, H-I=0/0, G-H=0/0
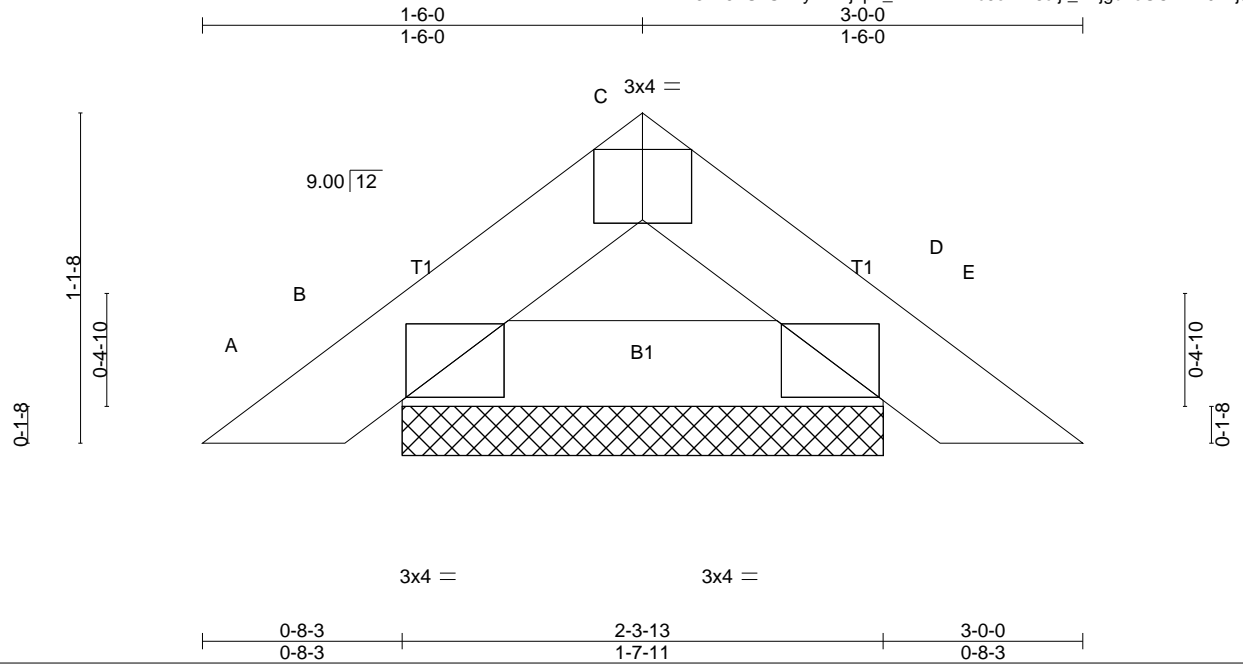WEBS   C-H=-177/435, B-I=-330/131, D-G=-773/325

NOTES-
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end
   zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions
   shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only.
3) Gable studs spaced at 2-0-0 oc.
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 204 lb uplift at joint G, 473 lb uplift at joint H, 42 lb uplift at joint I
   and 56 lb uplift at joint E.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) E.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	PB1	Piggyback	17	1	Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:47:04 2019 Page 1
ID:B3Zv6XULS7RyEf4Zj2p1_vzIDLW-Wc6eBW8cfjr_wzjgb4oGCVIxF0h2jJVfch6O5azS8Y5

1-6-0   3-0-0
1-6-0   1-6-0

Scale = 1:7.8

9.00 ⟨12

3x4 =

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	-0.00	D	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	D	n/r	90		
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-P							Weight: 8 lb	FT = 20%

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

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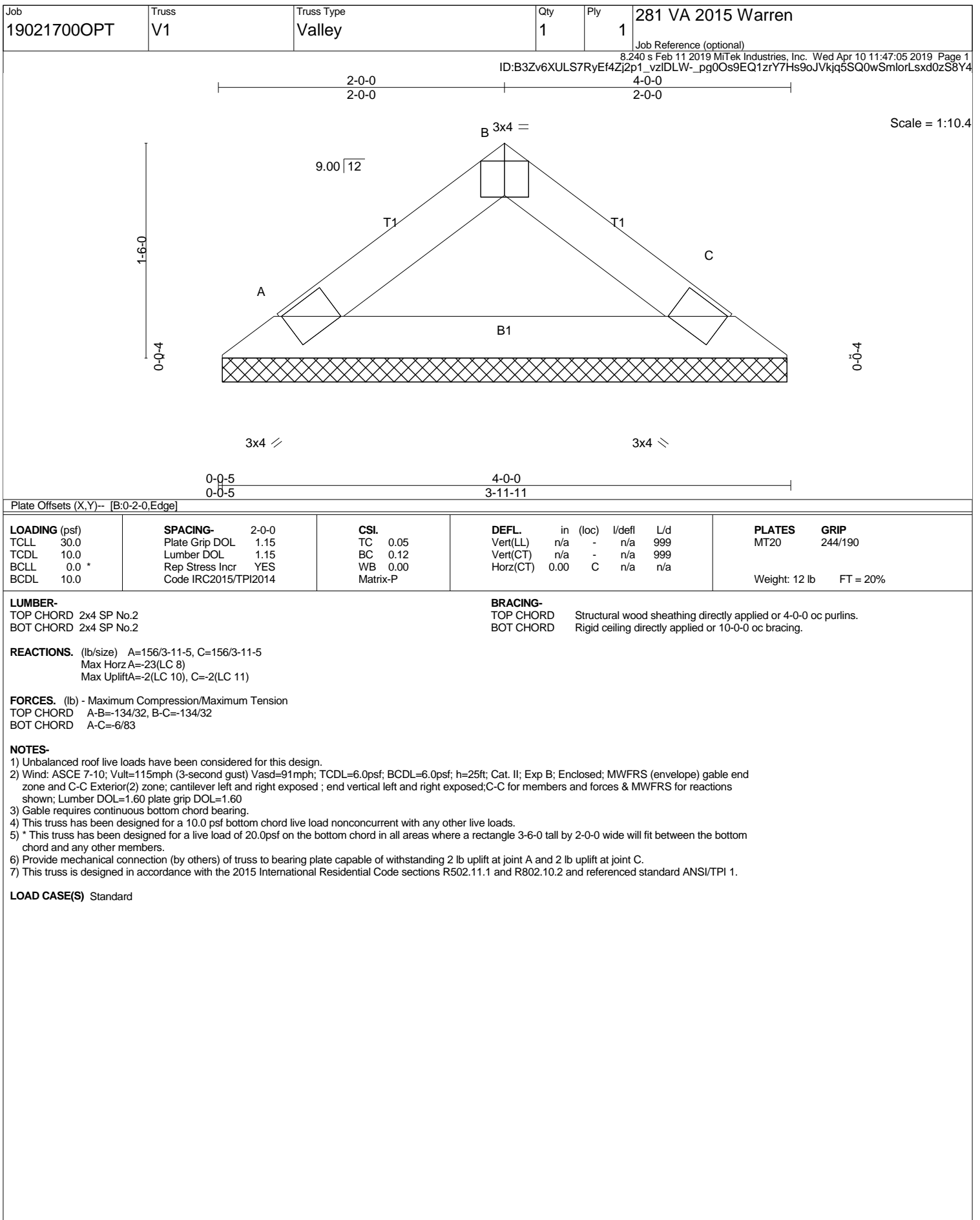BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)   B=117/1-7-11, D=117/1-7-11
Max Horz B=-18(LC 8)
Max Uplift B=-8(LC 10), D=-8(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD   A-B=0/18, B-C=-64/11, C-D=-64/11, D-E=0/18
BOT CHORD   B-D=-0/33

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint B and 8 lb uplift at joint D.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) See standard piggyback truss connection detail for connection to base truss.
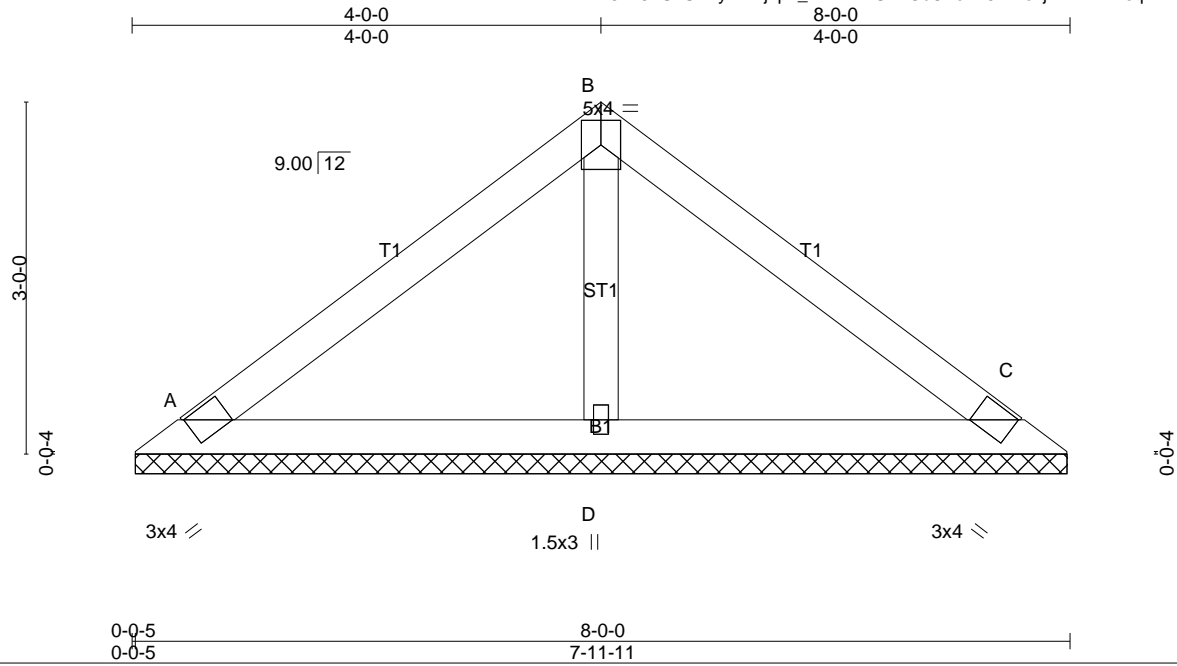
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	V1	Valley	1	1	

Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:47:05 2019 Page 1
ID:B3Zv6XULS7RyEf4Zj2p1_vzIDLW-_pg0Os9EQ1zrY7Hs9oJVkjq5SQ0wSmlorLsxd0zS8Y4

2-0-0   4-0-0
2-0-0   2-0-0

Scale = 1:10.4

B 3x4 ═

9.00 ⌐12

1-6-0

T1   T1

C

A

B1

0-0-4   0-0-4

3x4 ╱   3x4 ╲

0-0-5   4-0-0
0-0-5   3-11-11

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	30.0	Plate Grip DOL	1.15	TC	0.05	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-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (lb/size) A=156/3-11-5, C=156/3-11-5
        Max Horz A=-23(LC 8)
        Max UpliftA=-2(LC 10), C=-2(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD   A-B=-134/32, B-C=-134/32
BOT CHORD   A-C=-6/83

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end
   zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions
   shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom
   chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint A and 2 lb uplift at joint C.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	V2	Valley	1	1	Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:47:06 2019 Page 1
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LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in (loc) l/defl L/d	**PLATES** **GRIP**
TCLL	30.0	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	0.15	Vert(CT)	n/a - n/a 999	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00 C n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014		Matrix-SH				Weight: 29 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=180/7-11-5, C=180/7-11-5, D=353/7-11-5
Max Horz A=-52(LC 6)
Max UpliftA=-9(LC 10), C=-15(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-141/48, B-C=-141/46
BOT CHORD A-D=-8/52, C-D=-8/52
WEBS B-D=-219/34

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint A and 15 lb uplift at joint C.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	281 VA 2015 Warren
19021700OPT	V3	Valley	1	1	Job Reference (optional)

8.240 s Feb 11 2019 MiTek Industries, Inc. Wed Apr 10 11:47:07 2019 Page 1
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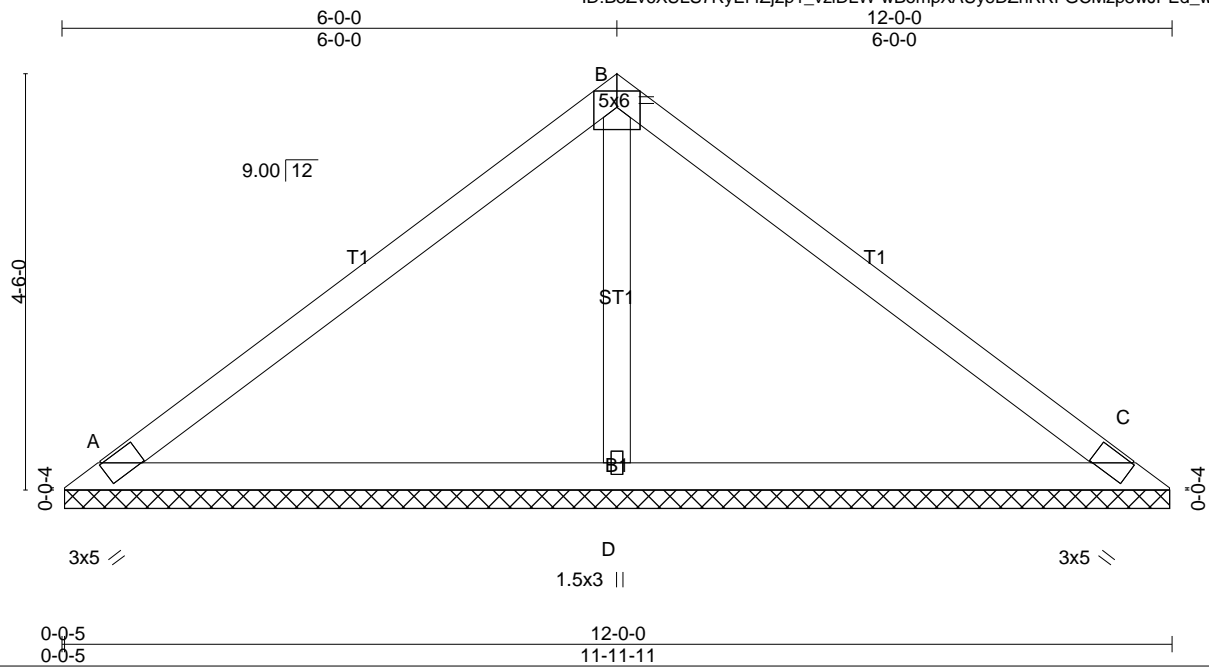
LOADING (psf)		SPACING-	2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15		TC	0.54	Vert(LL)	n/a	-	n/a	999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.40	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES		WB	0.13	Horz(CT)	0.00	C	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014			Matrix-SH								Weight: 44 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=280/11-11-5, C=280/11-11-5, D=552/11-11-5
Max Horz A=-81(LC 6)
Max Uplift A=-14(LC 10), C=-24(LC 11)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD A-B=-221/75, B-C=-221/72
BOT CHORD A-D=-13/81, C-D=-13/81
WEBS B-D=-342/48

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint A and 24 lb uplift at joint C.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard