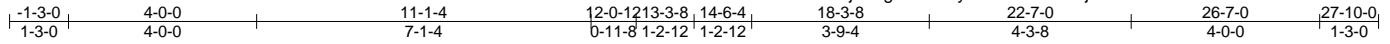


Job 2100347-2100347A	Truss A01	Truss Type Hip Girder	Qty 1	Ply 2	BUIE RESIDENCE
84 Components, Dunn, NC 28334					Job Reference (optional)

8.400 s Apr 7 2020 MITek Industries, Inc. Thu Apr 1 13:56:08 2021 Page 1
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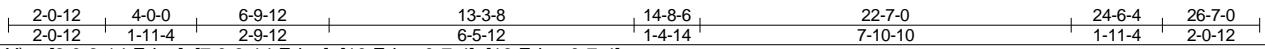
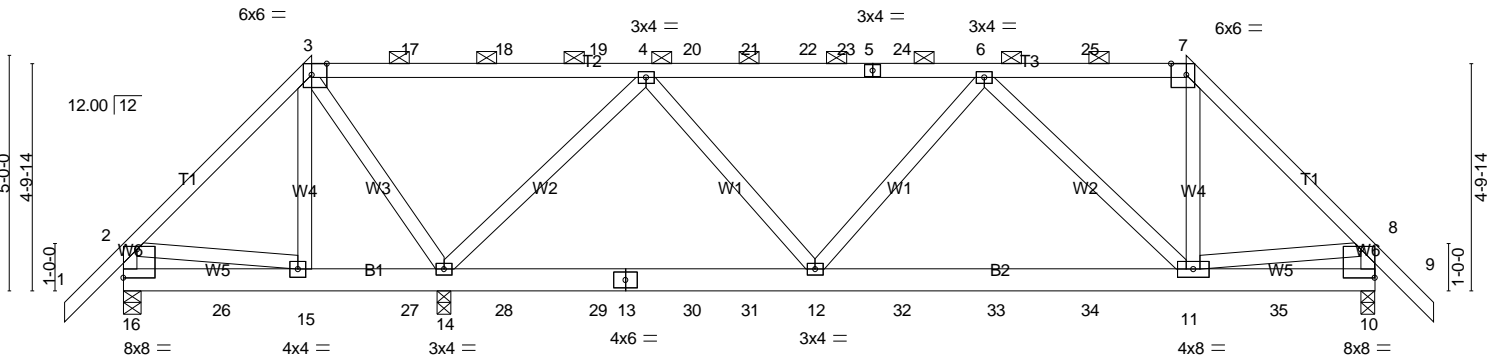


Plate Offsets (X,Y)-- [3:0-3-14,Edge], [7:0-3-14,Edge], [10:Edge,0-7-4], [16:Edge,0-7-4]

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 0.57	Vert(LL)	-0.02	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.04	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.27	Horz(CT)	0.01	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 355 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.

REACTIONS.

(lb/size) 16=171/0-4-8 (min. 0-1-8), 14=1884/0-3-8 (min. 0-1-8), 10=1099/0-3-8 (min. 0-1-8)
 Max Horz 16=-110(LC 6)
 Max Uplift 16=-84(LC 25), 14=-315(LC 8), 10=-232(LC 8)
 Max Grav 16=176(LC 17), 14=1884(LC 1), 10=1100(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-17=-73/482, 17-18=-73/481, 18-19=-72/481, 4-19=-72/480, 4-20=-890/184, 20-21=-890/184, 21-22=-890/184, 22-23=-890/184, 5-23=-890/184, 5-24=-890/184, 6-24=-890/184, 6-25=-714/174, 7-25=-712/174, 7-8=-1078/208, 8-10=-1013/192
 BOT CHORD 14-28=-145/559, 28-29=-145/559, 13-29=-145/559, 13-30=-145/559, 30-31=-145/559, 12-31=-145/559, 12-32=-215/1021, 32-33=-215/1021, 33-34=-215/1021, 11-34=-215/1021
 WEBS 3-14=-719/199, 4-14=-1473/371, 4-12=0/622, 6-11=-469/172, 7-11=-50/477, 8-11=-88/607

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.
 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.
- 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16, 14, and 10. This connection is for uplift only and does not consider lateral forces.
- 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.

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	A01	Hip Girder	1	2	Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:08 2021 Page 2
 ID:LsmcJT0Z9IP6lbkjS6xglQzVGVy-5PZZDfJTo?HjJRAOZGXN44xBuVOuo9UTbUD?3xbzV4V5

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 84 lb up at 4-0-0, 87 lb down and 79 lb up at 6-0-12, 87 lb down and 79 lb up at 8-0-12, 87 lb down and 79 lb up at 10-0-12, 81 lb down and 79 lb up at 12-0-12, 81 lb down and 79 lb up at 13-3-8, 81 lb down and 79 lb up at 14-6-4, 87 lb down and 79 lb up at 16-6-4, 87 lb down and 79 lb up at 18-6-4, and 87 lb down and 79 lb up at 20-6-4, and 81 lb down and 84 lb up at 22-7-0 on top chord, and 134 lb down and 100 lb up at 2-0-12, 34 lb down at 4-0-12, 34 lb down at 6-0-12, 34 lb down at 8-0-12, 34 lb down at 10-0-12, 34 lb down at 12-0-12, 34 lb down at 13-3-8, 34 lb down at 14-6-4, 34 lb down at 16-6-4, 34 lb down at 18-6-4, 34 lb down at 20-6-4, and 34 lb down at 22-6-4, and 134 lb down and 100 lb up at 24-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-7=-60, 7-8=-60, 8-9=-60, 10-16=-20

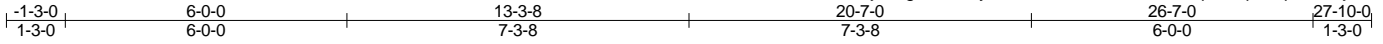
Concentrated Loads (lb)

Vert: 3=-35(F) 15=-21(F) 12=-21(F) 6=-35(F) 11=-21(F) 7=-35(F) 17=-35(F) 18=-35(F) 19=-35(F) 20=-35(F) 21=-35(F) 22=-35(F) 24=-35(F) 25=-35(F) 26=-132(F) 27=-21(F) 28=-21(F) 29=-21(F) 30=-21(F) 31=-21(F) 32=-21(F) 33=-21(F) 34=-21(F) 35=-132(F)

Job 2100347-2100347A	Truss A02	Truss Type Hip	Qty 1	Ply 1	BUIE RESIDENCE Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:11 2021 Page 1
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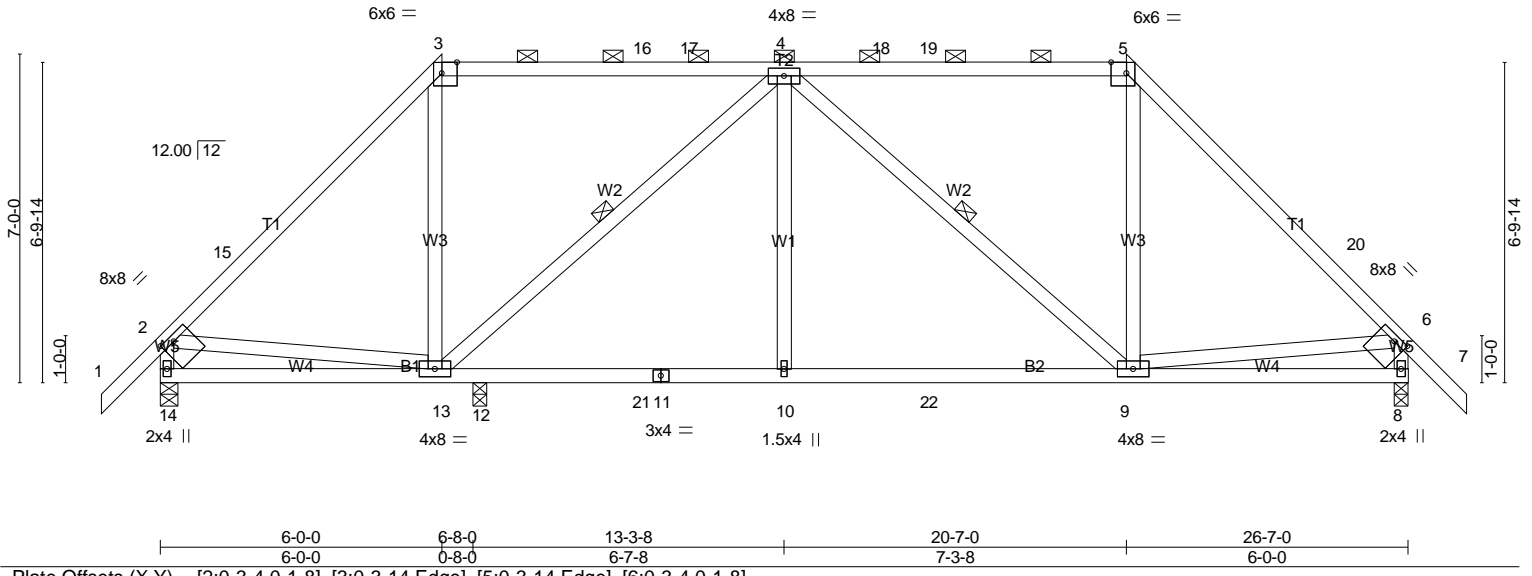


Plate Offsets (X,Y)--	[2:0-3-4,0-1-8], [3:0-3-14,Edge], [5:0-3-14,Edge], [6:0-3-4,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.76	Vert(LL) -0.07 9-10 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.61	Vert(CT) -0.15 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.35	Horz(CT) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS			
					Weight: 167 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
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 4-13, 4-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 14=880/0-4-8 (min. 0-1-8), 8=1049/0-3-8 (min. 0-1-8), 12=342/0-3-8 (min. 0-1-8)
 Max Horz 14=-148(LC 10)
 Max Uplift 14=-47(LC 12), 8=-24(LC 12)
 Max Grav 14=880(LC 1), 8=1049(LC 1), 12=384(LC 17)

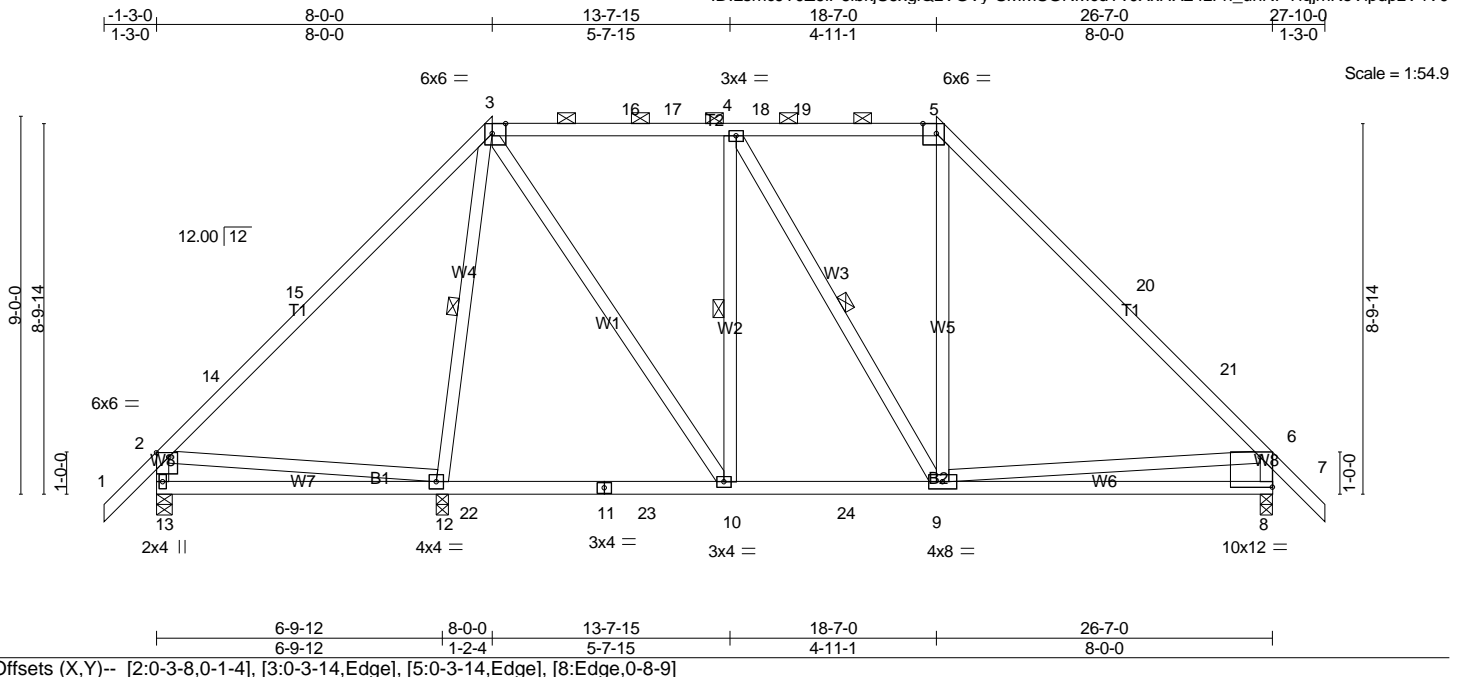
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-15=-836/72, 3-15=-705/116, 3-16=-501/137, 16-17=-502/137, 4-17=-502/137,
 4-18=-690/122, 18-19=-689/122, 5-19=-689/122, 5-20=-946/95, 6-20=-1078/51,
 2-14=-803/140, 6-8=-1001/123
 BOT CHORD 13-14=-112/355, 12-13=0/1007, 12-21=0/1007, 11-21=0/1007, 10-11=0/1007,
 10-22=0/1007, 9-22=0/1007, 8-9=-104/312
 WEBS 4-13=-681/19, 4-10=0/337, 4-9=-431/39, 5-9=0/380, 2-13=-30/332, 6-9=0/557

- 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; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 20-7-0, Exterior(2) 20-7-0 to 24-9-15, Interior(1) 24-9-15 to 27-10-0 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 8. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A03	Truss Type Hip	Qty 1	Ply 1	BUIE RESIDENCE
84 Components, Dunn, NC 28334					Job Reference (optional)

ID:LsmcJT0Z9IP6lBkJS6xglQzVGVy-SMMSGNMcdYv0XxHX24zFn_uhNPYiqjmKeVipdpzV4V0
8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:13 2021 Page 1



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.81	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(LL) -0.10 8-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.39	Vert(CT) -0.20 8-9 >999 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) 0.02 8 n/a n/a		
				Weight: 183 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W8: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-10, 4-9, 3-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=513/0-4-8 (min. 0-1-8), 8=924/0-3-8 (min. 0-1-8), 12=834/0-3-8 (min. 0-1-8)
Max Horz 13=-183(LC 10)
Max Uplift 13=92(LC 12), 8=-39(LC 12)
Max Grav 13=513(LC 1), 8=924(LC 1), 12=921(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-386/99, 3-16=-523/163, 16-17=-523/163, 4-17=-523/163, 4-18=-518/156, 18-19=-518/156, 5-19=-517/156, 5-20=-706/121, 20-21=-739/85, 6-21=-891/61, 2-13=-456/167, 6-8=-849/144
BOT CHORD 12-13=-228/552, 12-22=-16/288, 11-22=-16/288, 11-23=-16/288, 10-23=-16/288, 10-24=0/561, 9-24=0/561, 8-9=-198/576
WEBS 4-10=-348/48, 6-9=-258/295, 3-10=0/572, 2-12=-455/290, 3-12=-656/0

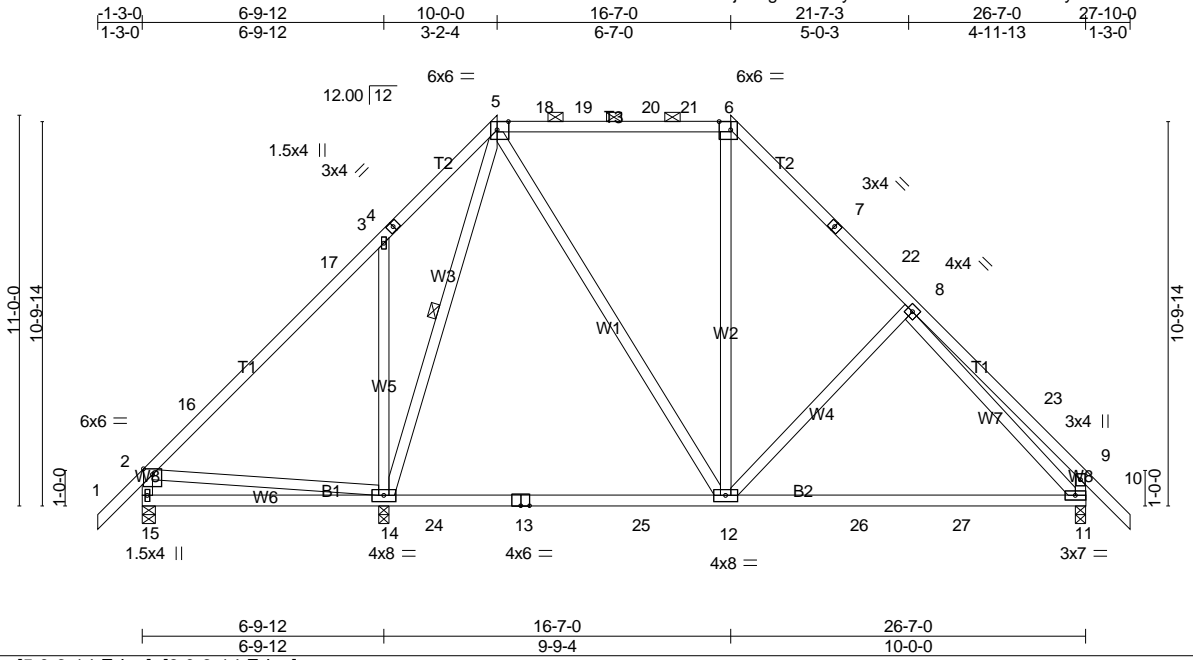
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 8-0-0, Exterior(2) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 18-7-0, Exterior(2) 18-7-0 to 22-9-15, Interior(1) 22-9-15 to 27-10-0 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 8. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A03A	Truss Type Hip	Qty 1	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:16 2021 Page 1
 ID:LsmcJT0Z9IP6l6bkjS6xglQzVGvy-sx2avOPVwTlaOO06kDWyPdWCHcSO12QmKTxUC8zV4Uz



Scale = 1:64.9

Plate Offsets (X,Y)--	[5:0-3-14,Edge], [6:0-3-14,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 0.71	Vert(LL) -0.30 12-14 >769 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -0.44 11-12 >537 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.01 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 190 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.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-14
W1: 2x4 SP No.2 or 2x4 SPF No.2	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 15=422/0-4-8 (min. 0-1-8), 11=889/0-3-8 (min. 0-1-8), 14=960/0-3-8 (min. 0-1-8)
 Max Horz 15=219(LC 11)
 Max Uplift 15=8(LC 12), 11=-11(LC 12), 14=-6(LC 12)
 Max Grav 15=422(LC 1), 11=913(LC 18), 14=1085(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-16=-295/15, 3-4=-287/167, 4-5=-282/193, 5-18=-460/139, 18-19=-460/139, 19-20=-460/139, 20-21=-460/139, 6-21=-460/139, 6-7=-613/123, 7-22=-631/99, 8-22=-710/84, 8-23=-323/77, 9-23=-441/51, 2-15=-369/75, 9-11=-462/113
 BOT CHORD 14-15=-168/374, 14-24=-19/294, 13-24=-19/294, 13-25=-19/294, 12-25=-19/294, 12-26=0/531, 26-27=0/531, 11-27=0/531
 WEBS 8-11=-520/6, 3-14=-368/215, 2-14=-338/229, 5-12=-4/436, 5-14=-527/0

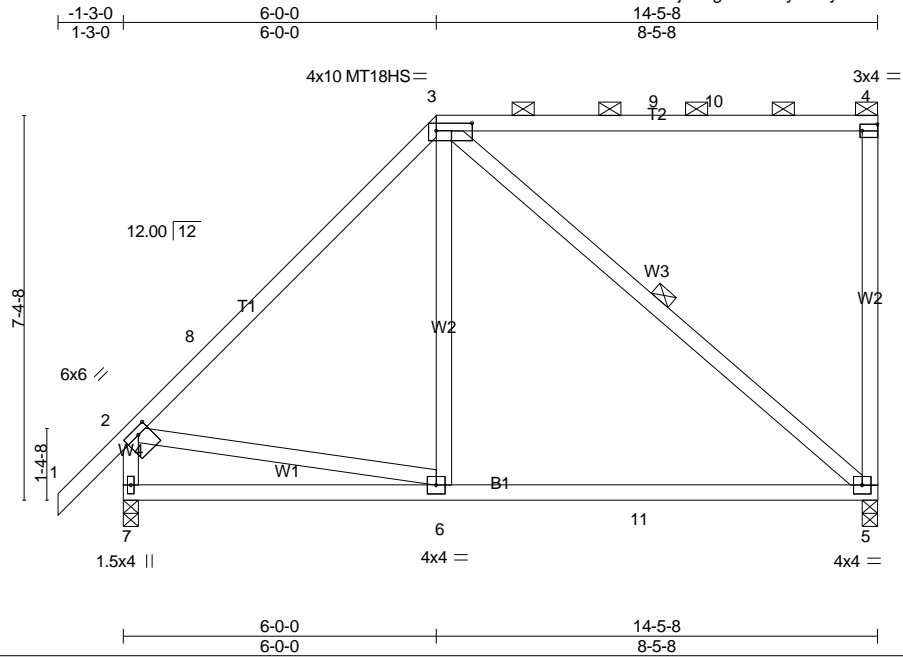
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 10-0-0, Exterior(2) 10-0-0 to 14-2-15, Interior(1) 14-2-15 to 16-7-0, Exterior(2) 16-7-0 to 20-9-15, Interior(1) 20-9-15 to 27-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15, 11, and 14. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A04	Truss Type Half Hip	Qty 1	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

84 Components, Dunn, NC 28334

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 ID:LsmcJT0Z9IP6l6kjs6xglQzVGvY-L8cy6kP7hmQR0YalHw1Byq3MT0t7mYqvZ7g1lazV4Uy



Scale = 1:44.2

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.81	Vert(LL)	-0.12	5-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.58	Vert(CT)	-0.25	5-6	>693	MT18HS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.26	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014						Weight: 95 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
 T2: 2x4 SP No.1
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.
 WEBS 1 Row at midpt 3-5

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=655/0-3-8 (min. 0-1-8), 5=563/0-3-8 (min. 0-1-8)
 Max Horz 7=208(LC 9)
 Max Uplift 7=-12(LC 12), 5=-71(LC 9)
 Max Grav 7=655(LC 1), 5=587(LC 17)

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

TOP CHORD 2-8=-585/36, 3-8=-460/81, 2-7=-609/107
 BOT CHORD 6-7=-398/447, 6-11=-163/381, 5-11=-163/381
 WEBS 3-6=0/301, 3-5=-448/137, 2-6=-74/328

NOTES-

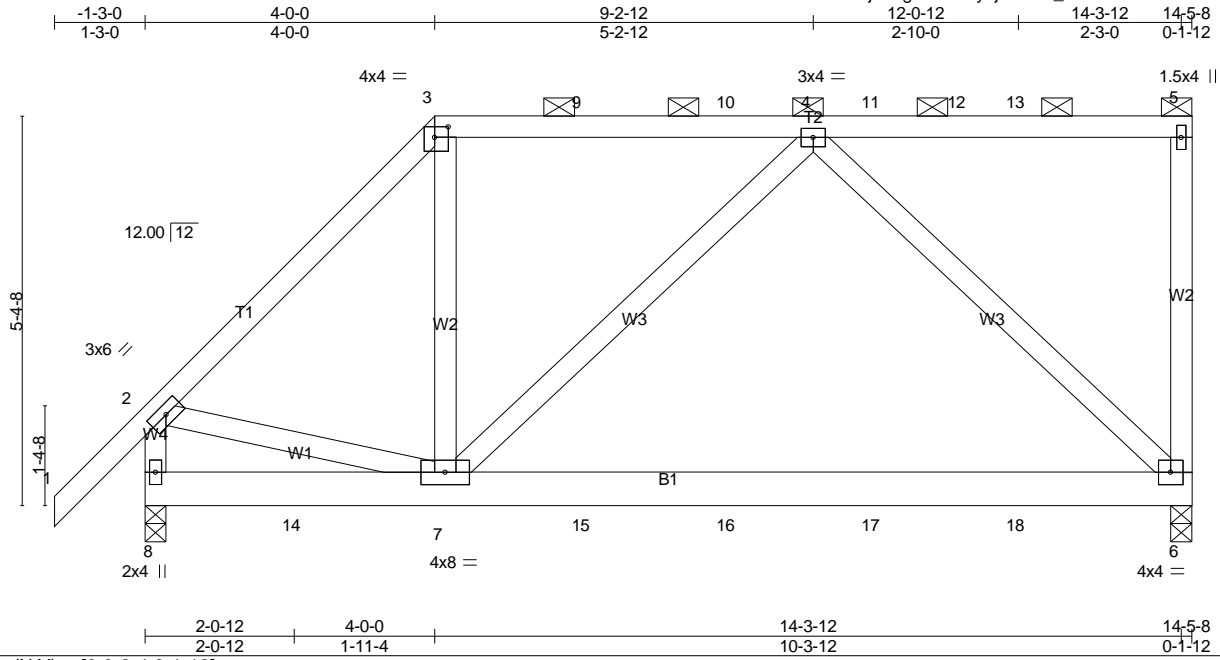
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 14-3-12 zone; cantilever 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
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A05	Truss Type Half Hip Girder	Qty 1	Ply 2	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:20 2021 Page 1
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Scale: 3/8"=1'

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.27	Vert(LL) -0.06	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.31	Vert(CT) -0.12	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.15	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 203 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 8=893/0-3-8 (min. 0-1-8), 6=824/0-3-8 (min. 0-1-8)
 Max Horz 8=151(LC 24)
 Max Uplift 8=-276(LC 8), 6=-320(LC 5)
 Max Grav 8=893(LC 1), 6=846(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-813/246, 3-9=-540/203, 9-10=-540/203, 4-10=-540/203, 2-8=-848/229
 BOT CHORD 7-15=-258/522, 15-16=-258/522, 16-17=-258/522, 17-18=-258/522, 6-18=-258/522
 WEBS 3-7=-34/337, 4-6=-686/318, 2-7=-133/538

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.
 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.
- 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.
- 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) 85 lb down and 90 lb up at 4-0-0, 91 lb down and 86 lb up at 6-0-12, 91 lb down and 86 lb up at 8-0-12, 91 lb down and 86 lb up at 10-0-12, and 91 lb down and 86 lb up at 12-0-12, and 85 lb down and 78 lb up at 14-3-12 on top chord, and 147 lb down and 126 lb up at 2-0-12, 38 lb down and 24 lb up at 4-0-12, 38 lb down and 24 lb up at 6-0-12, 38 lb down and 24 lb up at 8-0-12, 38 lb down and 24 lb up at 10-0-12, and 38 lb down and 24 lb up at 12-0-12, and 47 lb down and 17 lb up at 14-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	A05	Half Hip Girder	1	2	Job Reference (optional)

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-5=-60, 6-8=-20

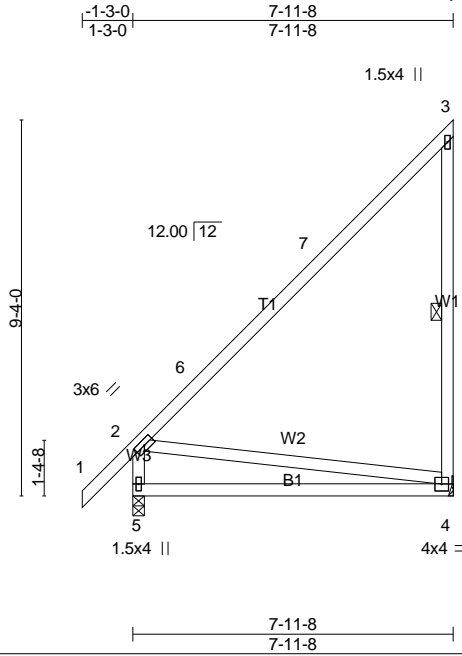
Concentrated Loads (lb)

Vert: 3=-36(B) 5=-58(B) 6=-28(B) 7=-21(B) 9=-36(B) 10=-36(B) 11=-36(B) 13=-36(B) 14=-132(B) 15=-21(B) 16=-21(B) 17=-21(B) 18=-21(B)

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	A06	Monopitch	2	1	Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:22 2021 Page 1



Scale = 1:57.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.69	Vert(LL) -0.21	4-5	>444	240	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.79	Vert(CT) -0.41	4-5	>222	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.38	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						
	Code IRC2015/TPI2014						Weight: 57 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP DSS
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W1: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-4-10 oc bracing.
 WEBS 1 Row at midpt 3-4

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=299/Mechanical, 5=398/0-3-8 (min. 0-1-8)
 Max Horz 5=256(LC 11)
 Max Uplift 4=-109(LC 9), 5=-1(LC 12)
 Max Grav 4=351(LC 17), 5=414(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-6=-301/231, 6-7=-273/264, 3-7=-268/306, 3-4=-355/261, 2-5=-338/129
 BOT CHORD 4-5=-433/424
 WEBS 2-4=-336/356

NOTES-

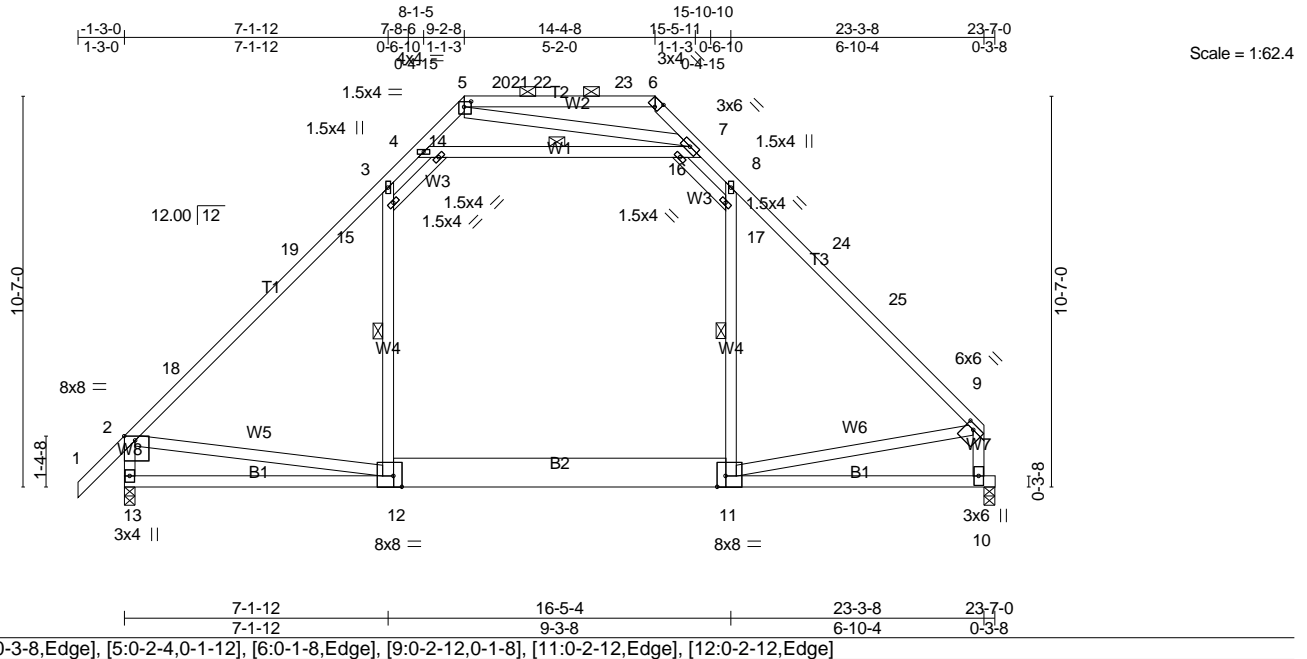
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 7-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=109.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss A07	Truss Type Attic	Qty 8	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.94	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.56	Vert(LL) -0.27 12-13 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Vert(CT) -0.34 12-13 >808 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 10 n/a n/a		
	Code IRC2015/TPI2014		Attic -0.21 11-12 509 360	Weight: 180 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* T2: 2x4 SP No.2, T3: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x4 SP No.2 *Except* B2: 2x10 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 3-12, 8-11, 4-7
WEBS 2x4 SP No.3	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=1052/0-3-8 (min. 0-1-8), 10=965/0-3-8 (min. 0-1-8)
 Max Horz 13=209(LC 11)
 Max Grav 13=1211(LC 18), 10=1137(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-1256/9, 18-19=-1108/35, 3-19=-1085/63, 3-4=-791/162, 5-20=-53/251,
 20-21=-53/251, 21-22=-53/251, 22-23=-53/251, 6-23=-53/251, 7-8=-689/161,
 8-24=-1069/59, 24-25=-1103/28, 9-25=-1229/27, 2-13=-1134/91, 9-10=-1093/49
 BOT CHORD 12-13=-215/457, 11-12=0/833
 WEBS 12-15=0/450, 3-15=-19/527, 11-17=0/421, 8-17=-5/564, 4-14=-926/212, 14-16=-902/175,
 7-16=-857/206, 2-12=0/665, 9-11=0/747, 16-17=-308/67

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 9-2-8, Exterior(2) 9-2-8 to 13-5-7, Interior(1) 13-5-7 to 14-4-8, Exterior(2) 14-4-8 to 18-7-7, Interior(1) 18-7-7 to 23-1-12 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.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-14, 14-16, 7-16
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 11-12
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
 - One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A09	Truss Type Hip	Qty 1	Ply 1	BUIE RESIDENCE Job Reference (optional)
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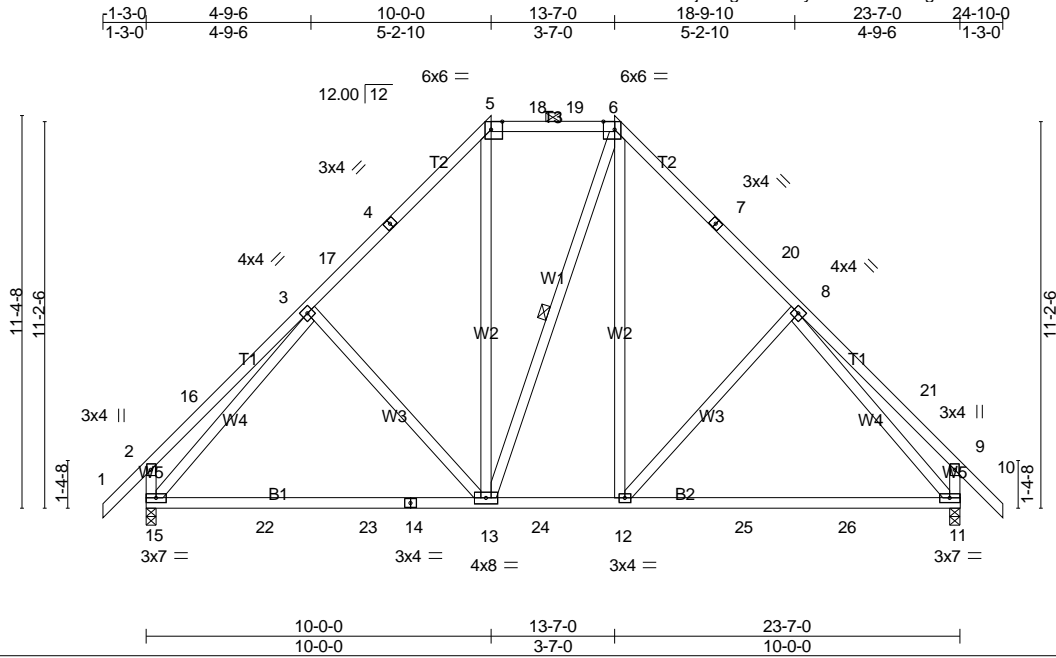


Plate Offsets (X,Y)-- [5:0-3-14,Edge], [6:0-3-14,Edge]

LOADING (psf)	SPACING-	CSI.	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 0.85	Vert(LL) -0.25 11-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.76	Vert(CT) -0.50 11-12 >564 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 11 n/a n/a		
	Code IRC2015/TPI2014			Weight: 182 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 15=1015/0-3-8 (min. 0-1-8), 11=1015/0-3-8 (min. 0-1-8)
Max Horz 15=226(LC 11)
Max Uplift 15=-14(LC 12), 11=-14(LC 12)
Max Grav 15=1028(LC 17), 11=1033(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-354/58, 3-17=-842/111, 4-17=-755/127, 4-5=-735/151, 5-18=-534/155, 18-19=-534/155, 6-19=-534/155, 6-7=-740/151, 7-20=-761/127, 8-20=-847/111, 9-21=-355/58, 2-15=-395/117, 9-11=-395/117
BOT CHORD 15-22=-7/722, 22-23=-7/722, 14-23=-7/722, 13-14=-7/722, 13-24=0/587, 12-24=0/587, 12-25=0/625, 25-26=0/625, 11-26=0/625
WEBS 5-13=-33/324, 6-12=-27/355, 3-15=-758/19, 8-11=-757/19

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; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 10-0-0, Exterior(2) 10-0-0 to 17-9-15, Interior(1) 17-9-15 to 24-10-0 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 11. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A10	Truss Type Hip	Qty 1	Ply 1	BUIE RESIDENCE Job Reference (optional)
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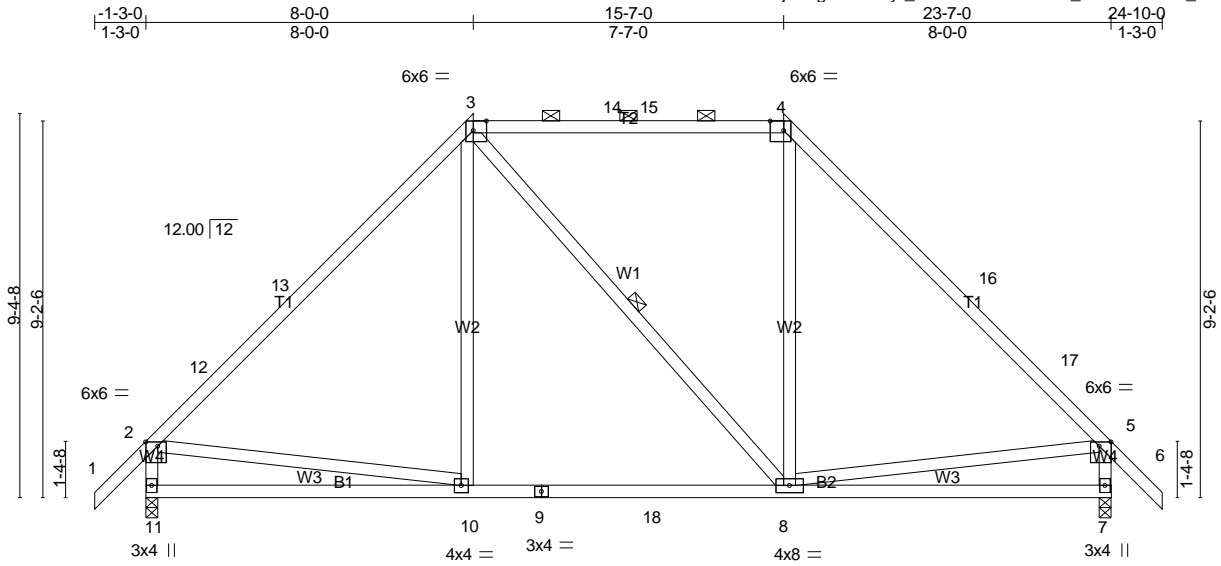


Plate Offsets (X,Y)--	[2:0-3-8,0-1-4], [3:0-3-14,Edge], [4:0-3-14,Edge], [5:0-3-8,0-1-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.95	Vert(LL)	-0.14	8-10	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.19	8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 154 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W4: 2x4 SP No.2 or 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=1015/0-3-8 (min. 0-1-8), 7=1015/0-3-8 (min. 0-1-8)
 Max Horz 11=191(LC 11)
 Max Uplift 11=-14(LC 12), 7=-14(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-12=-979/41, 12-13=-841/65, 3-13=-821/101, 3-14=-583/142, 14-15=-583/142, 4-15=-583/142, 4-16=-800/101, 16-17=-826/65, 5-17=-978/41, 2-11=-944/122, 5-7=-944/122
 BOT CHORD 10-11=-161/423, 9-10=0/661, 9-18=0/661, 8-18=0/661, 7-8=-129/392
 WEBS 3-10=0/283, 4-8=0/285, 2-10=-34/441, 5-8=-37/419

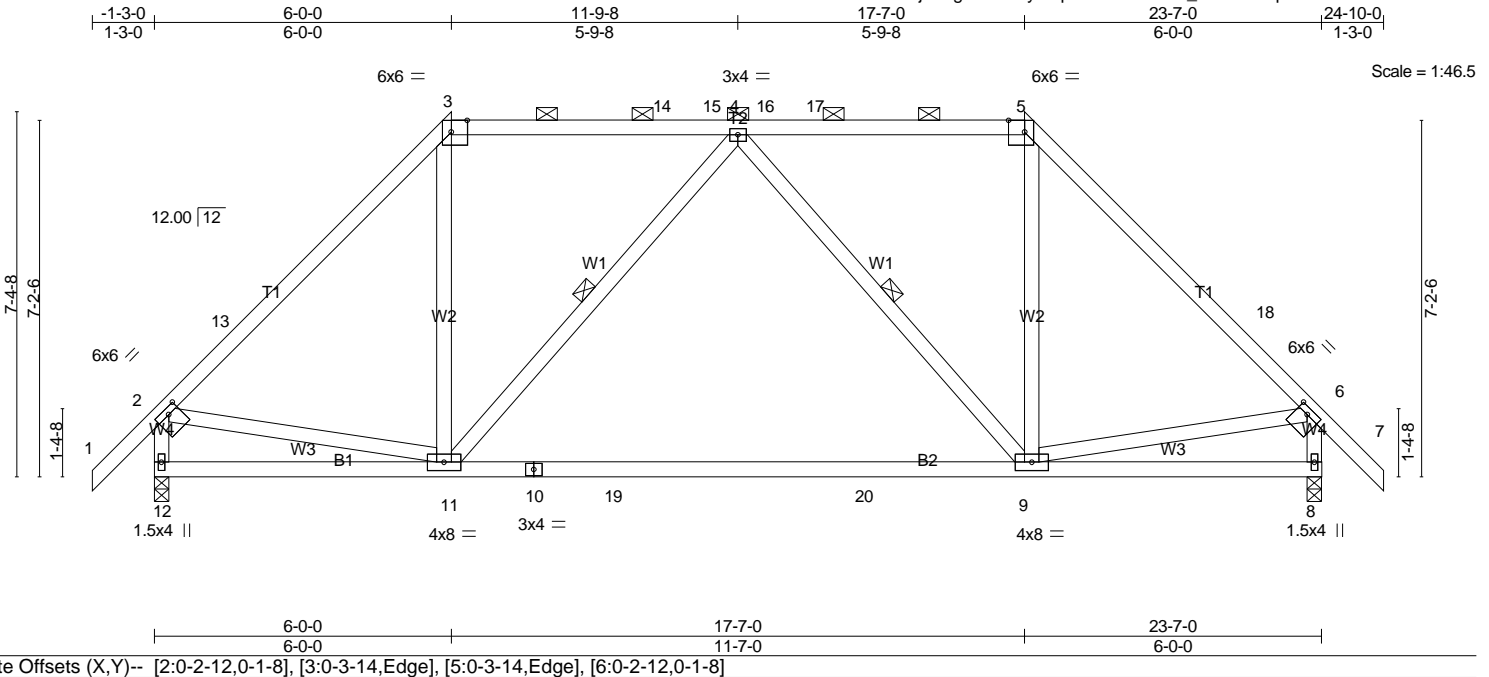
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 8-0-0, Exterior(2) 8-0-0 to 12-2-15, Interior(1) 12-2-15 to 15-7-0, Exterior(2) 15-7-0 to 19-9-15, Interior(1) 19-9-15 to 24-10-0 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 7. This connection is for uplift only and does not consider lateral forces.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	A11	Hip	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:31 2021 Page 1
 ID:LsmcJT0Z9IP6ljkjS6xglQzVGvY-wqSF2XavO3BSiif_6sHTWneptfaG2vYzn13mEmzV4Uk



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 0.55	Vert(LL)	-0.52	9-11	>541	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.86	9-11	>325		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.01	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 149 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-11, 4-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=1015/0-3-8 (min. 0-1-8), 8=1015/0-3-8 (min. 0-1-8)
 Max Horz 12=-155(LC 10)
 Max Uplift 12=-14(LC 12), 8=-14(LC 12)

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

TOP CHORD 2-13=-1016/31, 3-13=-903/75, 3-14=-661/108, 14-15=-661/107, 4-15=-662/107, 4-16=-661/107, 16-17=-661/107, 5-17=-661/108, 5-18=-903/75, 6-18=-1016/31, 2-12=-997/98, 6-8=-997/98
 BOT CHORD 10-11=0/829, 10-19=0/829, 19-20=0/829, 9-20=0/829
 WEBS 3-11=0/391, 4-11=-302/65, 4-9=-302/65, 5-9=0/391, 2-11=0/634, 6-9=0/636

NOTES-

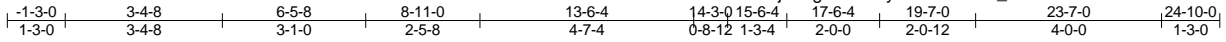
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 6-0-0, Exterior(2) 6-0-0 to 10-2-15, Interior(1) 10-2-15 to 17-7-0, Exterior(2) 17-7-0 to 21-9-15, Interior(1) 21-9-15 to 24-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	A12	Roof Special Girder	1	2	Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:34 2021 Page 1
 ID:LsmcJT0Z9IP6l6kjS6xglQzVGvY-LP80hYdnh_Z1Z9OZn?rA8QGnZtbnFBcQTGIRr5zV4UH



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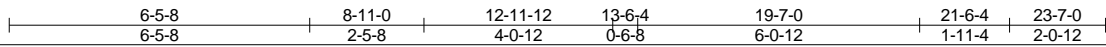
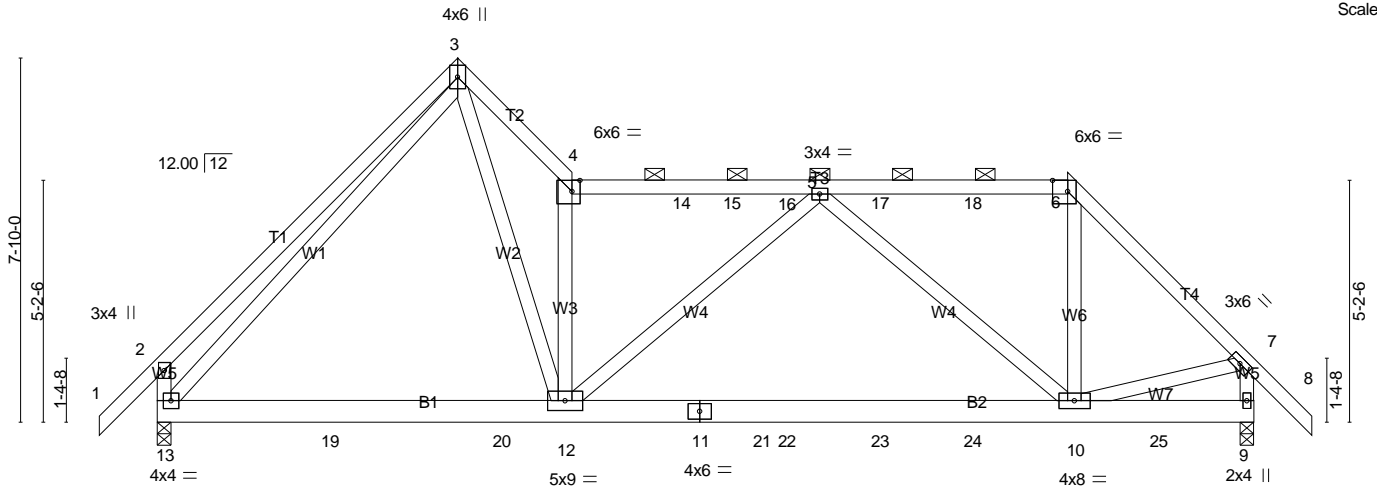


Plate Offsets (X,Y)-- [4:0-2-2,Edge], [6:0-3-14,Edge]

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 0.37	Vert(LL)	-0.14	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.31	10-12	>893		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.54	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 343 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 9=1589/0-3-8 (min. 0-1-8), 13=1340/0-3-8 (min. 0-1-8)
 Max Horz 13=163(LC 7)
 Max Uplift 9=-238(LC 8), 13=-40(LC 8)

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

TOP CHORD 2-3=-530/271, 3-4=-2445/86, 4-14=-1745/35, 14-15=-1745/35, 15-16=-1745/35, 5-16=-1746/35, 5-17=-1166/145, 17-18=-1165/145, 6-18=-1164/145, 6-7=-1748/161, 2-13=-564/241, 7-9=-1720/147

BOT CHORD 13-19=0/938, 19-20=0/938, 12-20=0/938, 11-12=-118/1734, 11-21=-118/1734, 21-22=-118/1734, 22-23=-118/1734, 23-24=-118/1734, 10-24=-118/1734

WEBS 4-12=-1898/78, 5-12=-63/307, 5-10=-758/79, 6-10=0/863, 7-10=-43/1259, 3-12=-2/2620, 3-13=-1133/0

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 0-9-0 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.
- 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 13. This connection is for uplift only and does not consider lateral forces.
- 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.

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	A12	Roof Special Girder	1	2	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:34 2021 Page 2
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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 95 lb down and 88 lb up at 13-6-4, 91 lb down and 86 lb up at 15-6-4, and 91 lb down and 86 lb up at 17-6-4, and 84 lb down and 90 lb up at 19-7-0 on top chord, and 539 lb down at 12-11-12, 40 lb down and 22 lb up at 13-6-4, 38 lb down and 24 lb up at 15-6-4, 38 lb down and 24 lb up at 17-6-4, and 38 lb down and 24 lb up at 19-6-4, and 138 lb down and 125 lb up at 21-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-6=-60, 6-7=-60, 7-8=-60, 9-13=-20

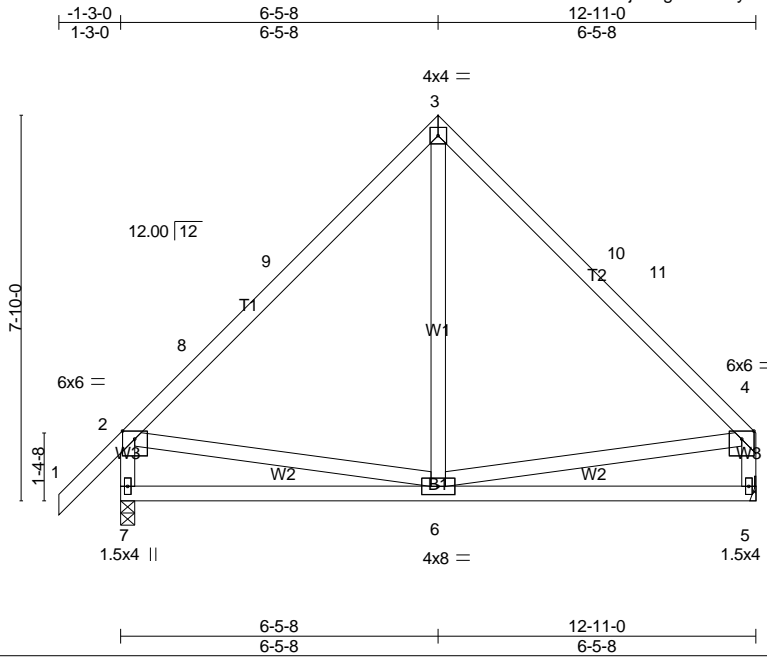
Concentrated Loads (lb)

Vert: 6=-36(B) 10=-21(B) 16=-45(B) 17=-36(B) 18=-36(B) 21=-539(B) 22=-27(B) 23=-21(B) 24=-21(B) 25=-119(B)

Job 2100347-2100347A	Truss A13	Truss Type Common	Qty 2	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:36 2021 Page 1
 ID:LsmcJT0Z9IP6ljkjS6xglQzVGvY-HoF85Ee2Ccpl0TXyvPteDrLfkGQ6jB5iwanXw_zV4Uf



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL) -0.03	5-6	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(CT) -0.07	5-6	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(CT) 0.00	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code IRC2015/TPI2014							
							Weight: 81 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=593/0-3-8 (min. 0-1-8), 5=500/Mechanical
 Max Horz 7=157(LC 11)
 Max Uplift 7=-22(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-477/27, 8-9=-336/50, 3-9=-334/76, 3-10=-327/71, 10-11=-334/43, 4-11=-468/42,
 2-7=-537/105, 4-5=-444/63
 BOT CHORD 6-7=-149/277
 WEBS 3-6=0/251

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 6-5-8, Exterior(2) 6-5-8 to 9-5-8, Interior(1) 9-5-8 to 12-9-4 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.
- Refer to girder(s) for truss to truss connections.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 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.

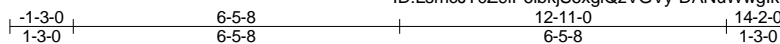
LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A14	Truss Type GABLE	Qty 1	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:38 2021 Page 1

Job Reference (optional)



Scale = 1:45.5

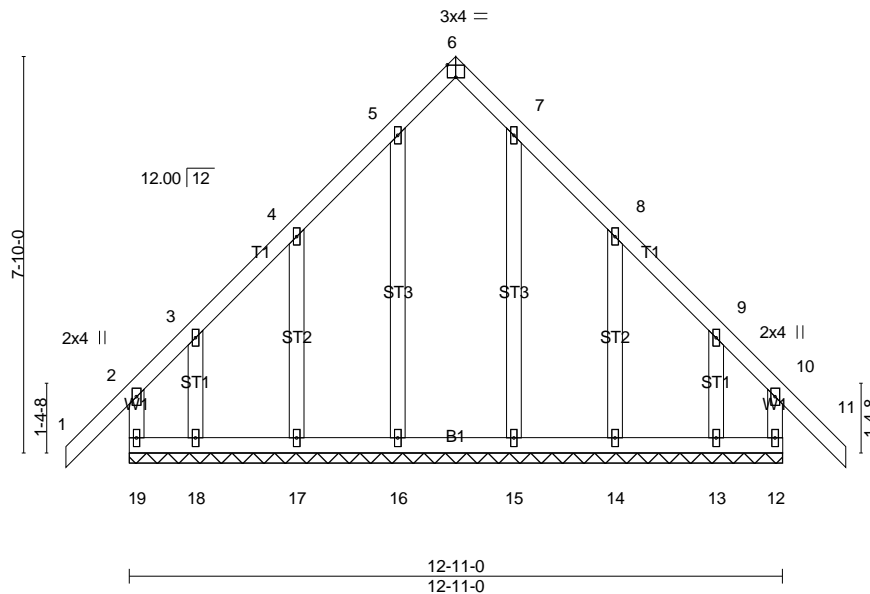


Plate Offsets (X,Y)-- [6:0-2-0,Edge]

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 0.11	Vert(LL) -0.01 11 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Vert(CT) -0.01 11 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.00 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 92 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 12-11-0.
 (lb) - Max Horz 19--165(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 17, 14 except 18--105(LC 9), 13--101(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 19, 12, 16, 17, 18, 15, 14, 13

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

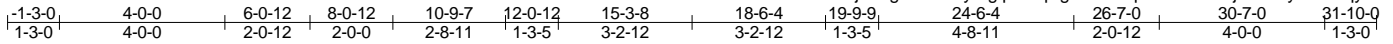
NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -1-3-0 to 1-9-0, Exterior(2) 1-9-0 to 6-5-8, Corner(3) 6-5-8 to 9-7-4, Exterior(2) 9-7-4 to 14-2-0 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19, 12, 17, 18, 14, and 13. This connection is for uplift only and does not consider lateral forces.
- 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.

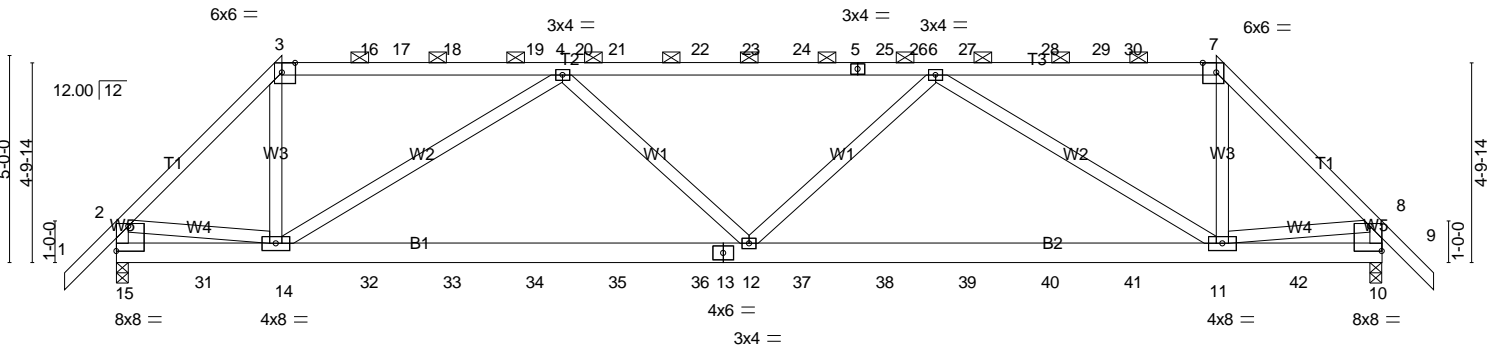
LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A15	Truss Type Hip Girder	Qty 1	Ply 2	BUIE RESIDENCE
84 Components, Dunn, NC 28334					Job Reference (optional)

8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:51 2021 Page 1
 ID:LsmcJT0Z9IP6ljkjS6xglQzVGVy-LgfpFMqSgDid5nBqH3e9K?TBcjWmkuywNQvqyczV4UQ



Scale = 1:55.7



2-0-12	4-0-0	15-3-8	26-7-0	28-6-4	30-7-0
2-0-12	1-11-4	11-3-8	11-3-8	1-11-4	2-0-12
Plate Offsets (X,Y)-- [3:0-3-14,Edge], [7:0-3-14,Edge], [10:Edge,0-7-4], [15:Edge,0-7-4]					

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) -0.07	12-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.17	12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.47	Horz(CT) 0.03	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 387 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 (5-9-11 max.): 3-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 15=1793/0-3-8 (min. 0-1-8), 10=1793/0-3-8 (min. 0-1-8)
 Max Horz 15=-112(LC 6)
 Max Uplift 15=-348(LC 8), 10=-348(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1953/326, 3-16=-1343/261, 16-17=-1343/262, 17-18=-1343/261, 18-19=-1344/262, 4-19=-1344/262, 4-20=-2868/476, 20-21=-2868/476, 21-22=-2868/476, 22-23=-2868/476, 23-24=-2868/476, 5-24=-2868/476, 5-25=-2868/476, 25-26=-2868/476, 6-26=-2868/476, 6-27=-1344/262, 27-28=-1344/262, 28-29=-1343/261, 29-30=-1343/262, 7-30=-1343/261, 7-8=-1953/326, 2-15=-1733/285, 8-10=-1733/285
 BOT CHORD 14-32=-501/2687, 32-33=-501/2687, 33-34=-501/2687, 34-35=-501/2687, 35-36=-501/2687, 13-36=-501/2687, 12-13=-501/2687, 12-37=-506/2679, 37-38=-506/2679, 38-39=-506/2679, 39-40=-506/2679, 40-41=-506/2679, 11-41=-506/2679
 WEBS 3-14=-89/991, 4-14=-1619/394, 4-12=0/492, 6-12=0/492, 6-11=-1619/393, 7-11=-89/991, 2-14=-160/1249, 8-11=-162/1253

- 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.
 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.
 - 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=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 10. This connection is for uplift only and does not consider lateral forces.
 - 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	A15	Hip Girder	1	2	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:51 2021 Page 2
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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 84 lb up at 4-0-0, 85 lb down and 79 lb up at 6-0-12, 85 lb down and 79 lb up at 8-0-12, 85 lb down and 79 lb up at 10-0-12, 81 lb down and 79 lb up at 12-0-12, 81 lb down and 79 lb up at 14-0-12, 81 lb down and 79 lb up at 15-3-8, 81 lb down and 79 lb up at 16-6-4, 81 lb down and 79 lb up at 18-6-4, 85 lb down and 79 lb up at 20-6-4, 85 lb down and 79 lb up at 22-6-4, and 85 lb down and 79 lb up at 24-6-4, and 81 lb down and 84 lb up at 26-7-0 on top chord, and 134 lb down and 100 lb up at 2-0-12, 34 lb down at 4-0-12, 34 lb down at 6-0-12, 34 lb down at 8-0-12, 34 lb down at 10-0-12, 34 lb down at 12-0-12, 34 lb down at 14-0-12, 34 lb down at 15-3-8, 34 lb down at 16-6-4, 34 lb down at 18-6-4, 34 lb down at 20-6-4, 34 lb down at 22-6-4, 34 lb down at 24-6-4, and 34 lb down at 26-6-4, and 134 lb down and 100 lb up at 28-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-7=-60, 7-8=-60, 8-9=-60, 10-15=-20

Concentrated Loads (lb)

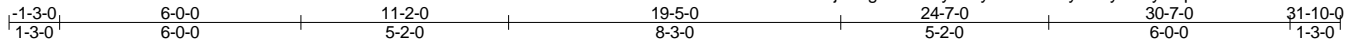
Vert: 3=-35(B) 14=-21(B) 12=-21(B) 11=-21(B) 7=-35(B) 16=-35(B) 18=-35(B) 19=-35(B) 21=-35(B) 22=-35(B) 23=-35(B) 24=-35(B) 25=-35(B) 27=-35(B) 28=-35(B) 30=-35(B) 31=-132(B) 32=-21(B) 33=-21(B) 34=-21(B) 35=-21(B) 36=-21(B) 37=-21(B) 38=-21(B) 39=-21(B) 40=-21(B) 41=-21(B) 42=-132(B)

Job 2100347-2100347A	Truss A16	Truss Type Hip	Qty 1	Ply 1	BUIE RESIDENCE Job Reference (optional)
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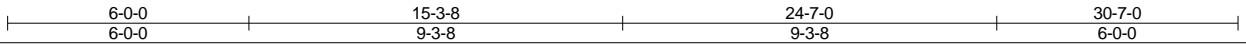
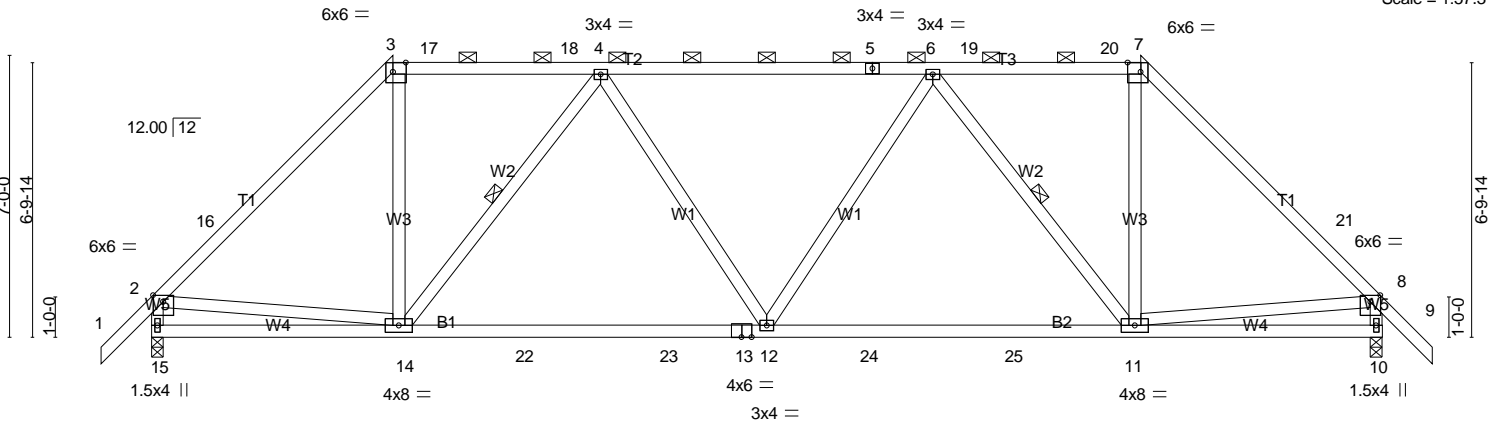
84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:56:54 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.95	Vert(LL) -0.17 12-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.31	Vert(CT) -0.32 12-14 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 188 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 4-5-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-7 max.): 3-7.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 4-14, 6-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 15=1295/0-3-8 (min. 0-1-8), 10=1295/0-3-8 (min. 0-1-8)
 Max Horz 15=151(LC 11)
 Max Uplift 15=9(LC 12), 10=9(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-16=-1389/44, 3-16=-1268/89, 3-17=-947/115, 17-18=-948/115, 4-18=-948/115, 4-5=-1430/110, 5-6=-1430/110, 6-19=-948/115, 19-20=-948/115, 7-20=-947/115, 7-21=-1268/88, 8-21=-1389/44, 2-15=-1246/119, 8-10=-1246/119
 BOT CHORD 14-15=-117/331, 14-22=0/1387, 22-23=0/1387, 13-23=0/1387, 12-13=0/1387, 12-24=0/1367, 24-25=0/1367, 11-25=0/1367, 10-11=-109/324
 WEBS 3-14=0/676, 4-14=-719/68, 6-11=-719/68, 7-11=0/676, 2-14=0/767, 8-11=0/772

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; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-11, Interior(1) 1-9-11 to 6-0-0, Exterior(2) 6-0-0 to 10-3-14, Interior(1) 10-3-14 to 24-7-0, Exterior(2) 24-7-0 to 28-10-14, Interior(1) 28-10-14 to 31-10-0 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 10. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A17	Truss Type Hip	Qty 1	Ply 1	BUIE RESIDENCE Job Reference (optional)
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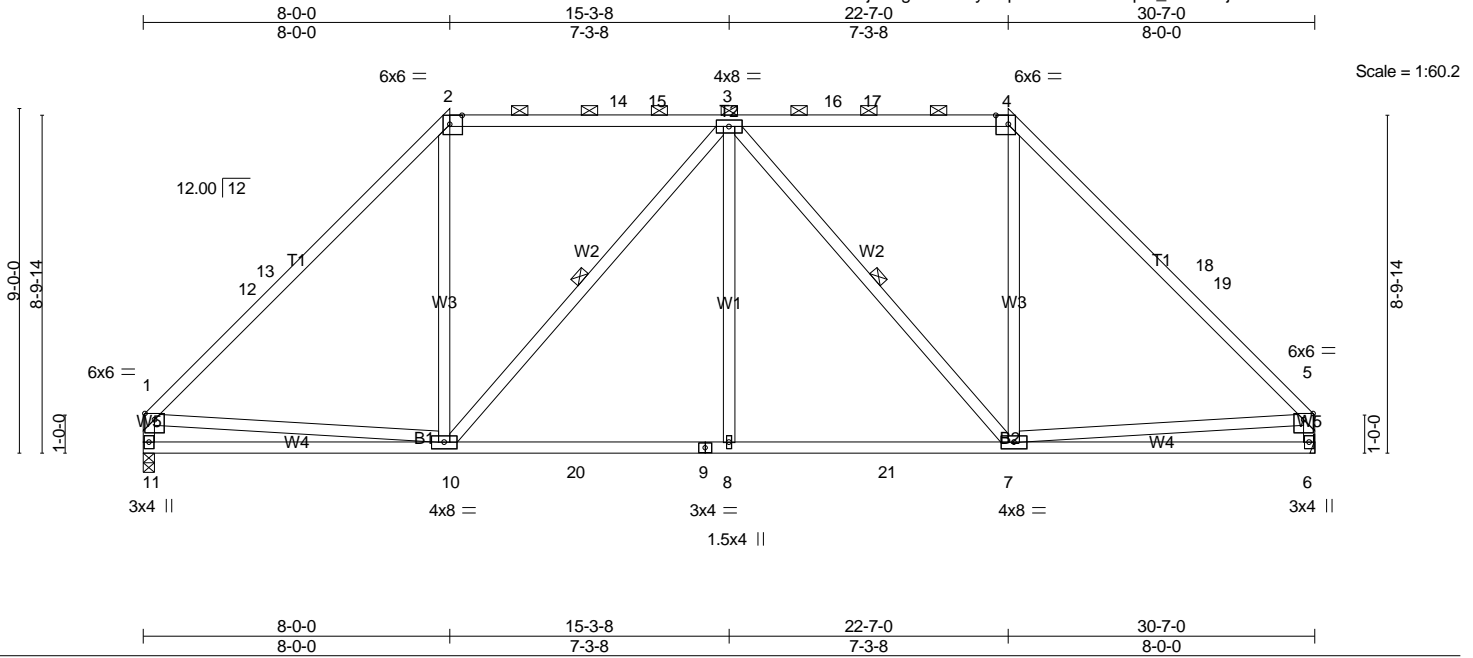


Plate Offsets (X,Y)-- [2:0-3-14,Edge], [4:0-3-14,Edge]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) -0.09 10-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.35	Horz(CT) 0.04 6 n/a n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS			
	Code IRC2015/TPI2014				Weight: 195 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP DSS *Except* T2: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-9 max.): 2-4.
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 3-10, 3-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=1212/0-3-8 (min. 0-1-8), 6=1212/Mechanical
Max Horz 11=-162(LC 10)
Max Grav 11=1218(LC 17), 6=1218(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1374/62, 12-13=-1250/66, 2-13=-1233/102, 2-14=-905/147, 14-15=-905/147, 3-15=-905/147, 3-16=-905/147, 16-17=-905/147, 4-17=-904/147, 4-18=-1233/102, 18-19=-1250/66, 5-19=-1374/62, 1-11=-1150/91, 5-6=-1150/91
BOT CHORD 10-11=-150/455, 10-20=0/1242, 9-20=0/1242, 8-9=0/1242, 8-21=0/1242, 7-21=0/1242, 6-7=-125/356
WEBS 2-10=0/532, 3-10=-540/22, 3-8=0/406, 3-7=-540/21, 4-7=0/532, 1-10=0/664, 5-7=0/668

- 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; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-2-7, Interior(1) 3-2-7 to 8-0-0, Exterior(2) 8-0-0 to 12-3-14, Interior(1) 12-3-14 to 22-7-0, Exterior(2) 22-7-0 to 26-10-14, Interior(1) 26-10-14 to 30-5-4 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) Refer to girder(s) for truss to truss connections.
 - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

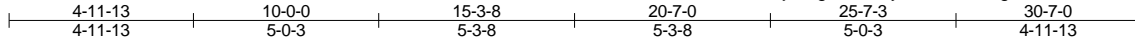
LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A18	Truss Type Hip	Qty 1	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

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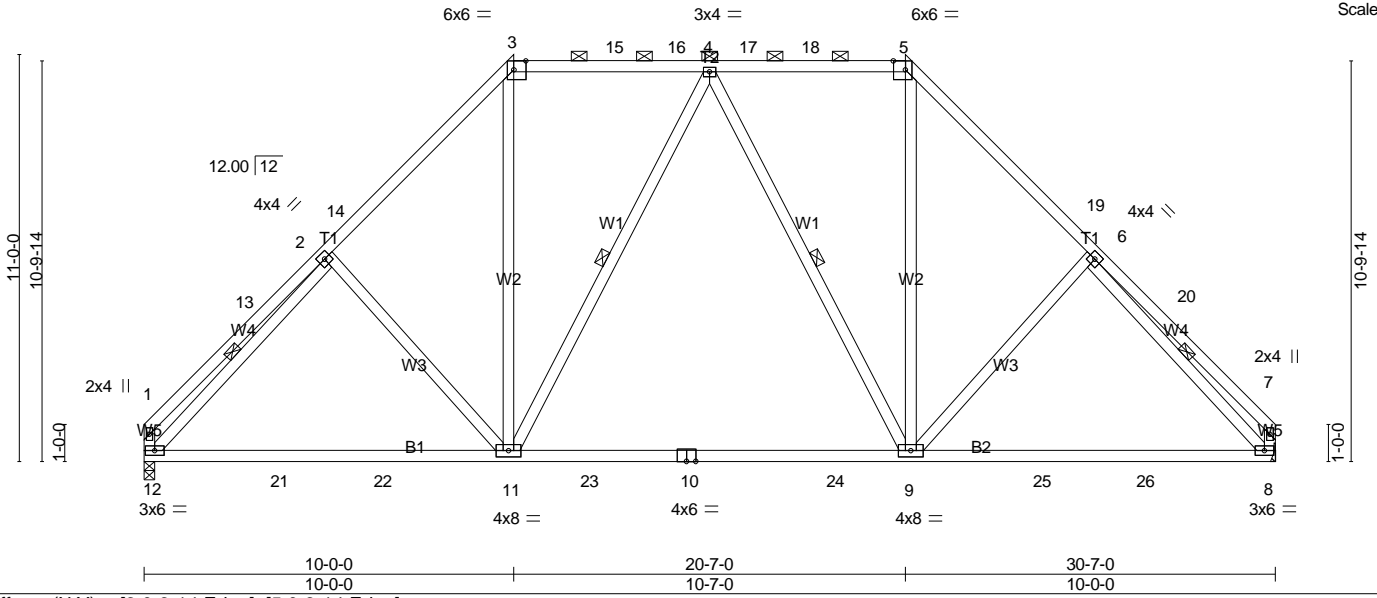


Plate Offsets (X,Y)-- [3:0-3-14,Edge], [5:0-3-14,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.44	9-11	>831	
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.62	9-11	>584	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.04	8	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					
							PLATES	GRIP
							MT20	244/190
							Weight: 212 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-11, 4-9, 2-12, 6-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=1212/0-3-8 (min. 0-1-8), 8=1212/Mechanical
 Max Horz 12=199(LC 11)
 Max Grav 12=1278(LC 17), 8=1278(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-13=-435/55, 2-13=-299/78, 2-14=-1313/120, 3-14=-1214/159, 3-15=-876/157, 15-16=-876/157, 4-16=-877/157, 4-17=-877/157, 17-18=-876/157, 5-18=-876/157, 5-19=-1214/159, 6-19=-1313/120, 6-20=-299/78, 7-20=-435/55, 1-12=-376/71, 7-8=-376/71
 BOT CHORD 12-21=-26/1053, 21-22=-26/1053, 11-22=-26/1053, 11-23=0/988, 10-23=0/988, 10-24=0/988, 9-24=0/988, 9-25=-14/924, 25-26=-14/924, 8-26=-14/924
 WEBS 3-11=-24/609, 4-11=-281/69, 4-9=-281/69, 5-9=-24/609, 2-12=-1089/40, 6-8=-1089/40

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-2-7, Interior(1) 3-2-7 to 10-0-0, Exterior(2) 10-0-0 to 14-3-14, Interior(1) 14-3-14 to 20-7-0, Exterior(2) 20-7-0 to 24-10-14, Interior(1) 24-10-14 to 30-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A19	Truss Type Piggyback Base	Qty 4	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:01 2021 Page 1
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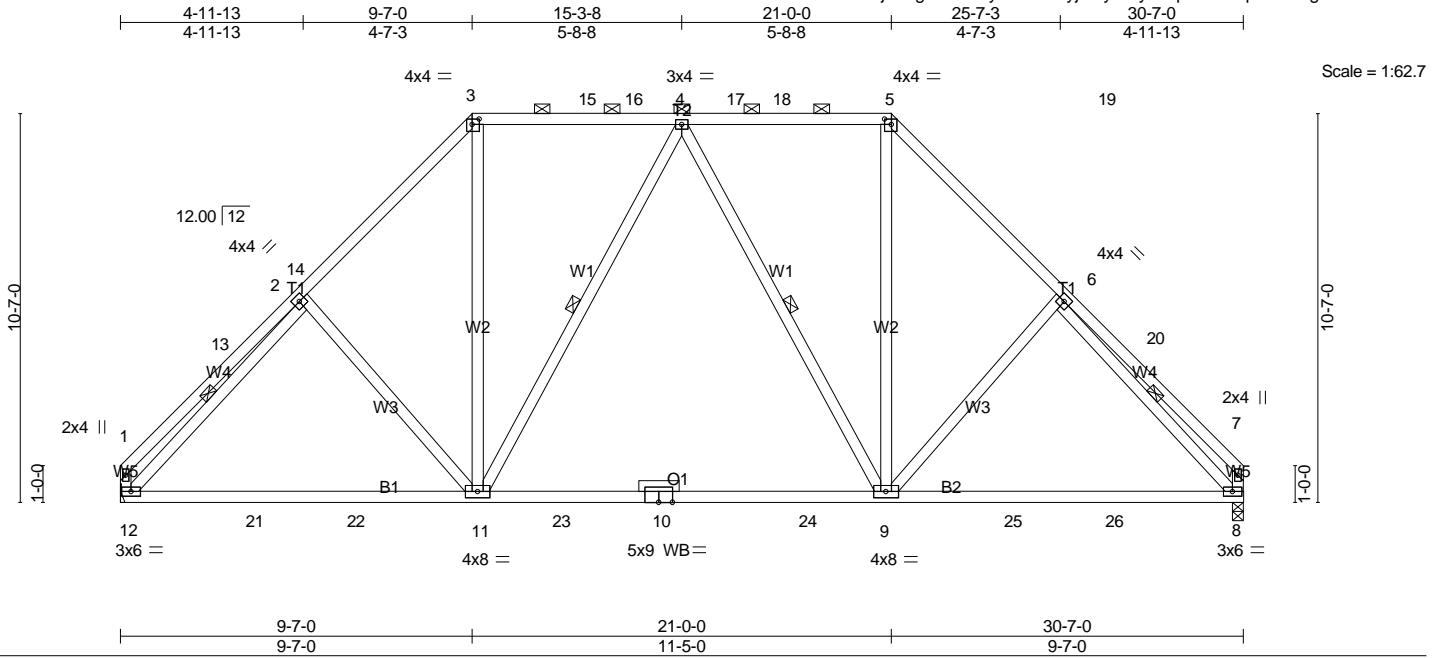


Plate Offsets (X,Y)-- [3:0-2-4,0-1-12], [5:0-2-4,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.48	Vert(LL) -0.48 9-11 >756 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.89	Vert(CT) -0.70 9-11 >522 180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.34	Horz(CT) -0.04 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS			Weight: 212 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11, 4-9, 2-12, 6-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=1212/Mechanical, 8=1212/0-3-8 (min. 0-1-8)
Max Horz 8=194(LC 10)
Max Grav 12=1278(LC 17), 8=1278(LC 18)

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

TOP CHORD 1-13=-432/63, 2-13=-300/86, 2-14=-1320/117, 3-14=-1304/157, 3-15=-889/153, 15-16=-889/153, 4-16=-889/153, 4-17=-889/153, 17-18=-889/153, 5-18=-889/153, 5-19=-1304/158, 6-19=-1320/117, 6-20=-300/86, 7-20=-432/63, 1-12=-377/78, 7-8=-377/78
BOT CHORD 12-21=-13/924, 21-22=-13/924, 11-22=-13/924, 11-23=0/1009, 10-23=0/1009, 10-24=0/1009, 9-24=0/1009, 9-25=-25/1048, 25-26=-25/1048, 8-26=-25/1048
WEBS 3-11=-26/627, 4-11=-292/69, 4-9=-292/69, 5-9=-26/627, 2-12=-1097/31, 6-8=-1097/31

NOTES-

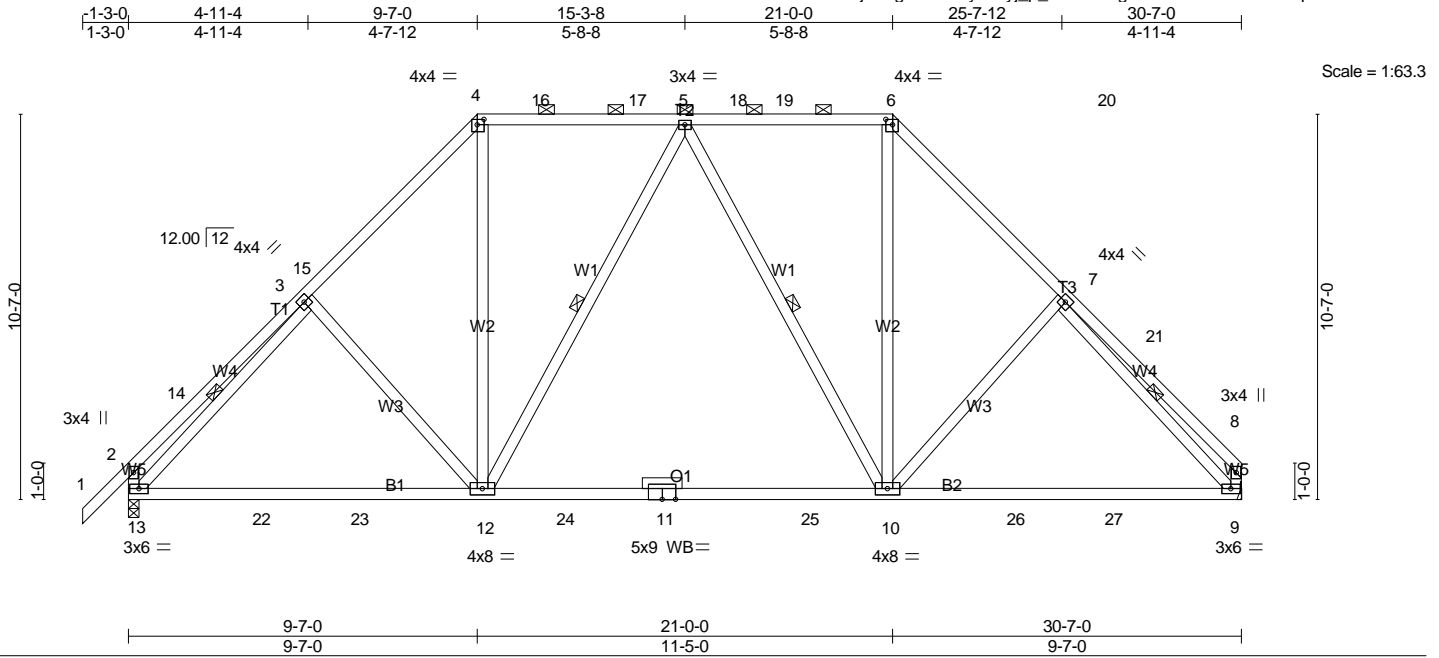
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-2-7, Interior(1) 3-2-7 to 9-7-0, Exterior(2) 9-7-0 to 13-10-14, Interior(1) 13-10-14 to 21-0-0, Exterior(2) 21-0-0 to 25-3-14, Interior(1) 25-3-14 to 30-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A21	Truss Type Piggyback Base	Qty 2	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

ID:LsmcJT0Z9IP6l6bkjS6xglQzVGvY-TAyI_p_ccCLn9ngKYINCMIVTksFH0HqNxZ0vMzV4UD
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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 0.48	Vert(LL)	-0.48	10-12	>750	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.70	10-12	>520		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.04	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 214 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-12, 5-10, 3-13, 7-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=1297/0-3-8 (min. 0-1-10), 9=1210/Mechanical
 Max Horz 13=210(LC 11)
 Max Uplift 13=10(LC 12)
 Max Grav 13=1354(LC 17), 9=1275(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-14=-451/67, 3-14=-340/92, 3-15=-1311/108, 4-15=-1294/149, 4-16=-885/153, 16-17=-885/153, 5-17=-885/153, 5-18=-887/152, 18-19=-887/152, 6-19=-887/152, 6-20=-1300/157, 7-20=-1317/116, 7-21=-297/83, 8-21=-426/60, 2-13=-474/125, 8-9=-371/76
 BOT CHORD 13-22=-24/1036, 22-23=-24/1036, 12-23=-24/1036, 12-24=0/1005, 11-24=0/1005, 11-25=0/1005, 10-25=0/1005, 10-26=-14/921, 26-27=-14/921, 9-27=-14/921
 WEBS 4-12=-19/619, 5-12=-292/69, 5-10=-290/69, 6-10=-24/623, 3-13=-1080/13, 7-9=-1098/31

NOTES-

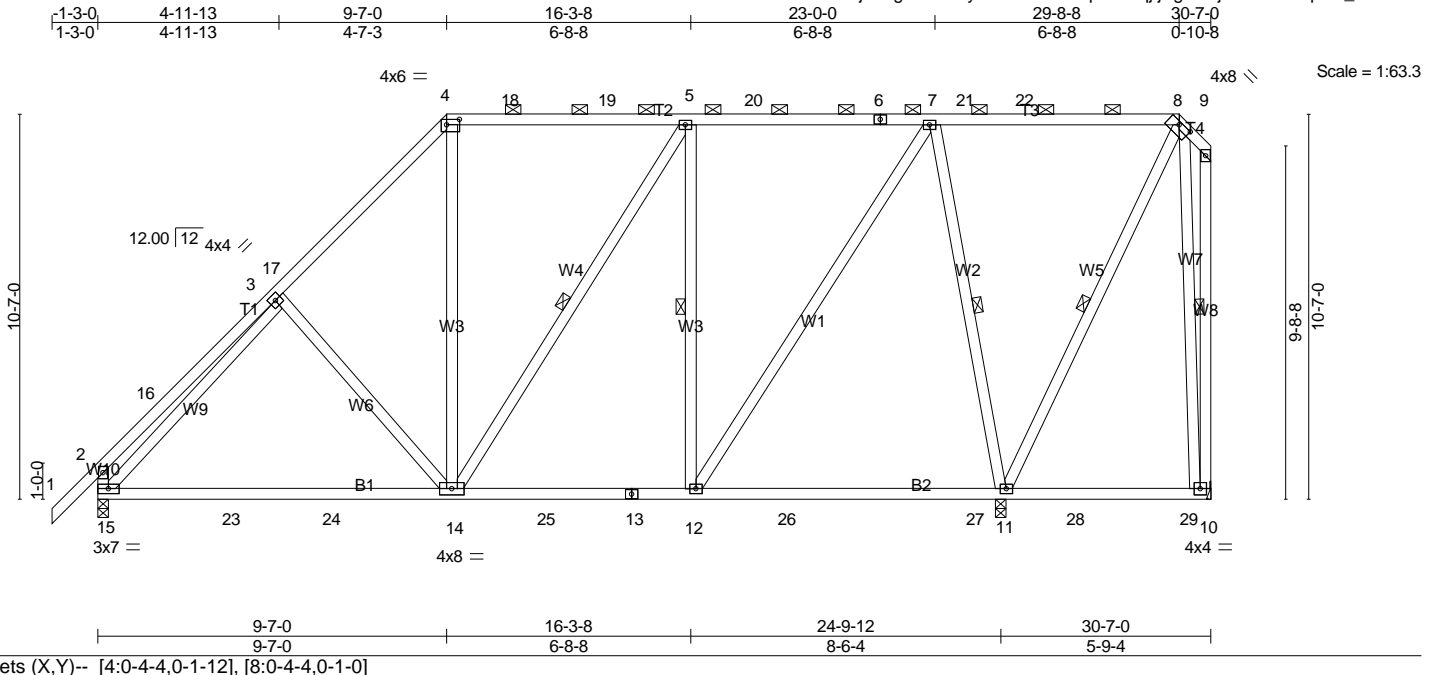
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-11, Interior(1) 1-9-11 to 9-7-0, Exterior(2) 9-7-0 to 13-10-14, Interior(1) 13-10-14 to 21-0-0, Exterior(2) 21-0-0 to 25-3-14, Interior(1) 25-3-14 to 30-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A22	Truss Type Piggyback Base	Qty 2	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:06 2021 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) -0.22 14-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Vert(CT) -0.45 14-15 >665 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 248 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 5-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 5-12, 7-11, 8-11, 8-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=1406/0-3-8 (min. 0-1-14), 15=1038/0-3-8 (min. 0-1-8), 10=64/Mechanical
Max Horz 15=289(LC 11)
Max Uplift 11=60(LC 9), 15=-18(LC 12), 10=-54(LC 12)
Max Grav 11=1597(LC 17), 15=1076(LC 17), 10=115(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-494/52, 3-16=-352/78, 3-17=-922/121, 4-17=-907/161, 4-18=-608/152,
18-19=-608/152, 5-19=-608/152, 5-20=-589/170, 6-20=-589/170, 6-7=-589/170,
8-9=-226/278, 2-15=-503/118, 9-10=-208/260
BOT CHORD 15-23=-285/773, 23-24=-285/773, 14-24=-285/773, 14-25=-133/600, 13-25=-133/600,
12-13=-133/600
WEBS 4-14=-19/333, 5-12=-478/170, 7-12=-104/860, 7-11=-1099/201, 3-15=-685/35

- 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; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-11, Interior(1) 1-9-11 to 9-7-0, Exterior(2) 9-7-0 to 13-10-14, Interior(1) 13-10-14 to 29-8-8, Exterior(2) 29-8-8 to 30-5-4 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 3x4 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
 - 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 15. This connection is for uplift only and does not consider lateral forces.
 - 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.

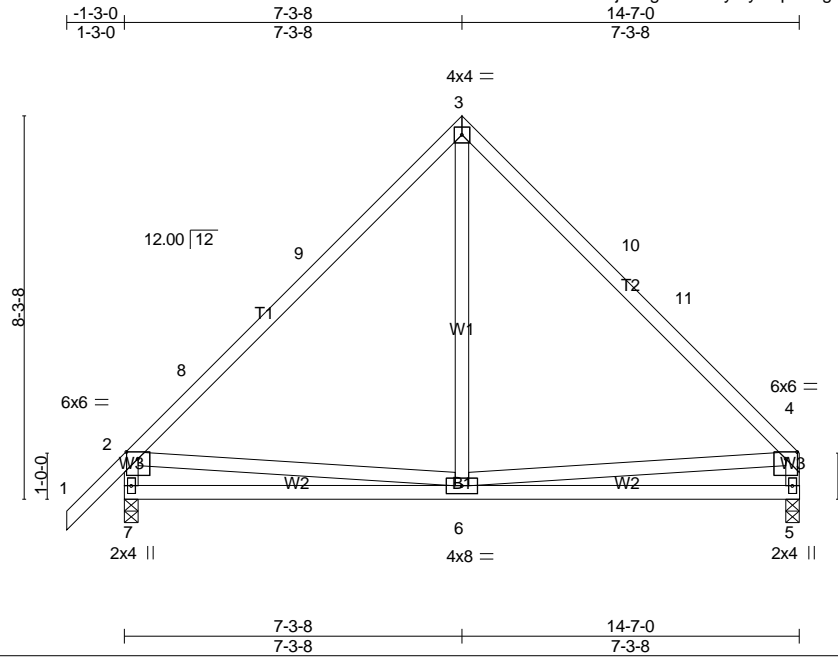
LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A24	Truss Type Common	Qty 6	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

Job Reference (optional)
8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:08 2021 Page 1

ID:LsmcJT0Z9IP6l6kjs6xglQzVGvY-LyBEpA16gRrCeO_5n8S8Wbg3iaJqDetQHZXE27zV4U9



Scale = 1:49.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) -0.05	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.11	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 89 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 4-2-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=660/0-3-8 (min. 0-1-8), 5=568/0-3-8 (min. 0-1-8)
Max Horz 7=162(LC 11)
Max Uplift 7=-22(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-568/18, 8-9=-405/44, 3-9=-392/73, 3-10=-381/68, 10-11=-405/37, 4-11=-557/33,
2-7=-597/107, 4-5=-505/64
BOT CHORD 6-7=-199/463, 5-6=-111/279
WEBS 3-6=0/313, 2-6=-236/260

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 7-3-8, Exterior(2) 7-3-8 to 10-3-8, Interior(1) 10-3-8 to 14-5-4 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss A25	Truss Type GABLE	Qty 1	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:10 2021 Page 1
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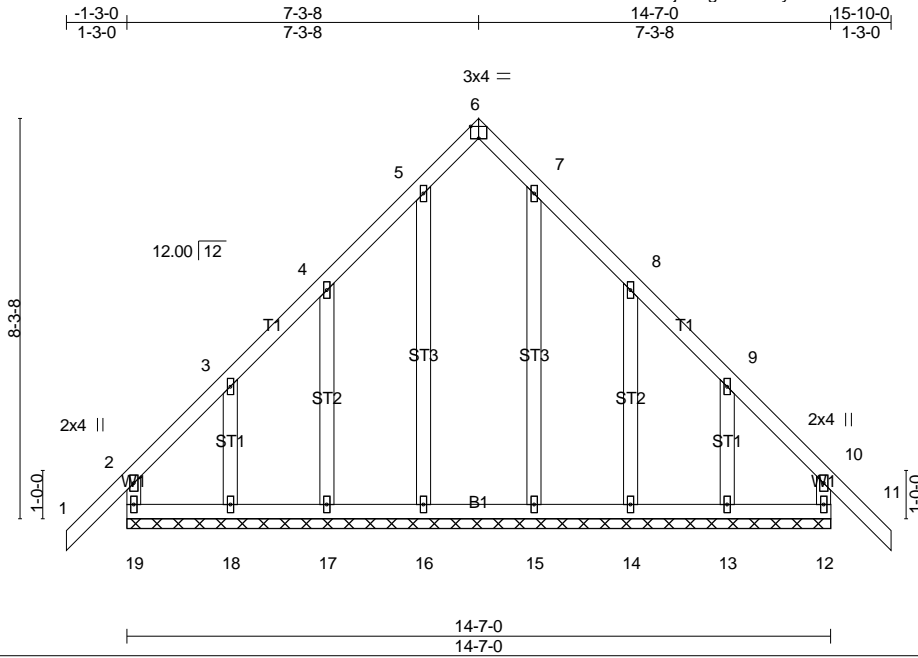


Plate Offsets (X,Y)-- [6:0-2-0,Edge]

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 0.21	Vert(LL) -0.01	11	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT) -0.01	11	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT) 0.00	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					
							Weight: 101 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 14-7-0.
(lb) - Max Horz 19--170(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 17, 18, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 19, 12, 16, 17, 18, 15, 14, 13

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

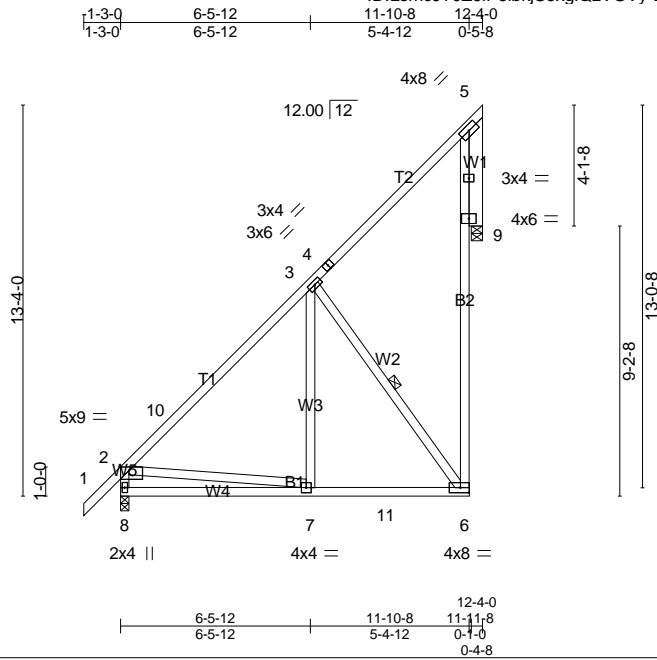
NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -1-3-0 to 1-9-0, Exterior(2) 1-9-0 to 7-3-8, Corner(3) 7-3-8 to 10-5-4, Exterior(2) 10-5-4 to 15-10-0 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19, 12, 17, 18, 14, and 13. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss A26	Truss Type Jack-Closed	Qty 4	Ply 1	BUIE RESIDENCE
84 Components, Dunn, NC 28334					Job Reference (optional)

ID:LsmcJT0Z9IP6lkbjS6xglQzVGVy-EjRlFy4dkgLe6?Is0zW4gRql0Biv9QF0CBVRBuzV4U5
8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:12 2021 Page 1



Scale = 1:78.5

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.84	Vert(LL) -0.04	7-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(CT) -0.08	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) -0.51	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 106 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 B2: 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3 *Except*
 W1: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7'-8-6 oc bracing.
 WEBS 1 Row at midpt 3-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=552/0-3-8 (min. 0-1-8), 9=458/0-4-8 (min. 0-1-8)
 Max Horz 8=353(LC 9)
 Max Uplift 9=-134(LC 9)
 Max Grav 8=594(LC 18), 9=569(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-545/123, 2-10=-566/67, 3-10=-448/133, 6-9=-131/432
 BOT CHORD 7-8=-574/737, 7-11=-199/389, 6-11=-199/389
 WEBS 2-7=-351/378, 3-7=0/266, 3-6=-448/159

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 11-8-12 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
- 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, with BCDL = 10.0psf.
- 4) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- 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.

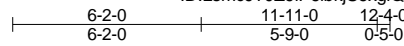
LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A26A	Truss Type Jack-Closed	Qty 1	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

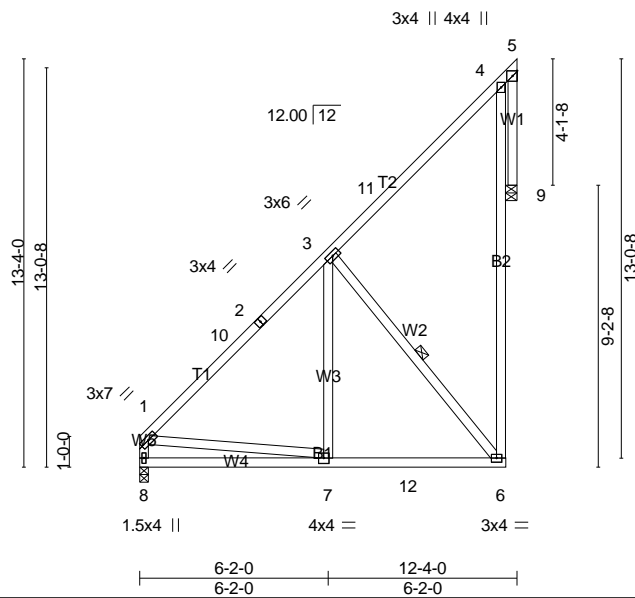
84 Components, Dunn, NC 28334

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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:14 2021 Page 1



Scale = 1:75.3



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 0.71	Vert(LL)	0.05	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.09	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.84	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 100 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 9-2-7 oc bracing.
 WEBS 1 Row at midpt 3-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=482/0-3-8 (min. 0-1-8), 9=474/0-4-8 (min. 0-1-8)
 Max Horz 8=245(LC 9)
 Max Uplift 9=103(LC 9)
 Max Grav 8=506(LC 18), 9=570(LC 17)

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

TOP CHORD 1-8=-458/0, 1-10=-534/0, 2-10=-428/0, 2-3=-342/26, 4-5=-243/485, 5-9=-614/276
 BOT CHORD 7-8=-408/494, 7-12=-130/326, 6-12=-130/326, 4-6=-125/431
 WEBS 1-7=-170/280, 3-7=0/257, 3-6=-490/193

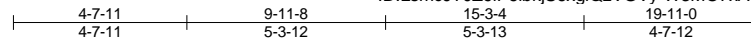
NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-2-4 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, with BCDL = 10.0psf.
- 4) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss A27	Truss Type Common Girder	Qty 1	Ply 2	BUIE RESIDENCE
84 Components, Dunn, NC 28334					Job Reference (optional)

ID:LsmcJT0Z9IP6l6kjS6xglQzVGVy-W3MO7xA04pEeS4KDwx8kTvdzm?1WITk1pmhJx_zV4U_



Scale = 1:61.6

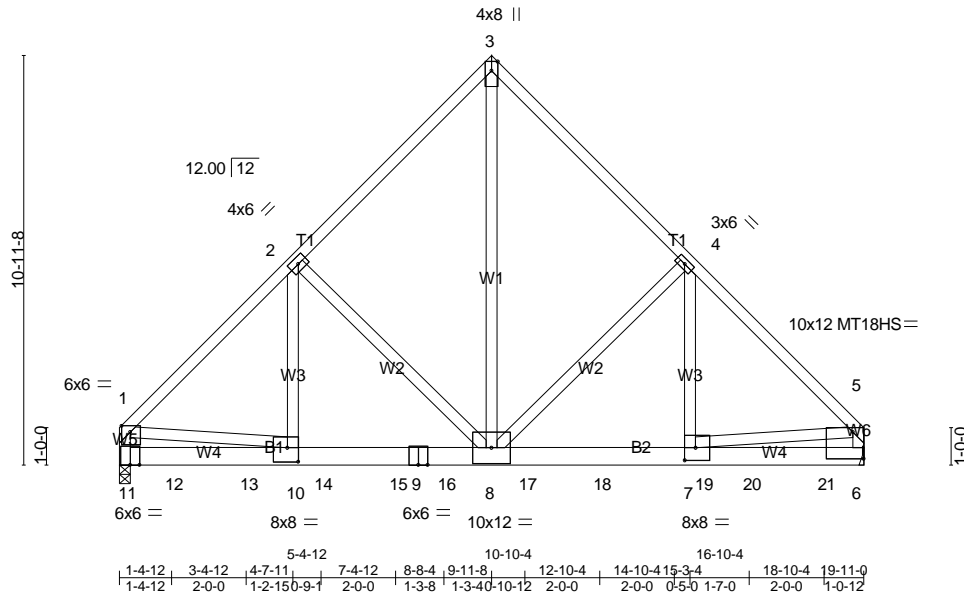


Plate Offsets (X,Y)--	[1:0-2-12,0-2-0], [5:Edge,0-8-9], [7:0-3-8,0-4-0], [10:0-3-8,0-4-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	Vert(LL)	-0.10	8-10	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.59	Vert(CT)	-0.19	8-10	>999	MT18HS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.80	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code IRC2015/TPI2014							
							Weight: 307 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-13 oc purlins, except end verticals.
BOT CHORD 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* W1,W5: 2x4 SP No.2 or 2x4 SPF No.2	

REACTIONS. (lb/size) 6=4765/Mechanical, 11=6464/0-3-8 (min. 0-1-8)
 Max Horz 11=190(LC 7)
 Max Grav 6=4770(LC 2), 11=6464(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-6702/0, 2-3=-4636/0, 3-4=-4636/0, 4-5=-5770/0, 1-11=-5401/0, 5-6=-4717/0
 BOT CHORD 11-12=0/937, 12-13=0/937, 10-13=0/937, 10-14=0/4680, 14-15=0/4680, 9-15=0/4680,
 9-16=0/4680, 8-16=0/4680, 8-17=0/4022, 17-18=0/4022, 18-19=0/4022, 7-19=0/4022,
 7-20=0/369, 20-21=0/369, 6-21=0/369
 WEBS 3-8=0/6151, 4-8=-1154/0, 4-7=0/1385, 2-8=-2065/0, 2-10=0/2692, 1-10=0/3859,
 5-7=0/3707

- 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.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss connections.
 - Bearing at joint(s) 11 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1192 lb down at 1-4-12, 1223 lb down at 3-4-12, 1220 lb down at 12-10-4, 1220 lb down at 14-10-4, and 85 lb down and 72 lb up at 16-10-4, and 85 lb down and 72 lb up at 18-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) per standard

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	A27	Common Girder	1	2	Job Reference (optional)

84 Components, Dunn, NC 28334

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 ID:LsmcJT0Z9IP6ljkjS6xglQzVGVy-W3MO7xA04pEeS4KDwx8kTvdzm?1WITk1pmhJx_zV4U_

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-11=-20

Concentrated Loads (lb)

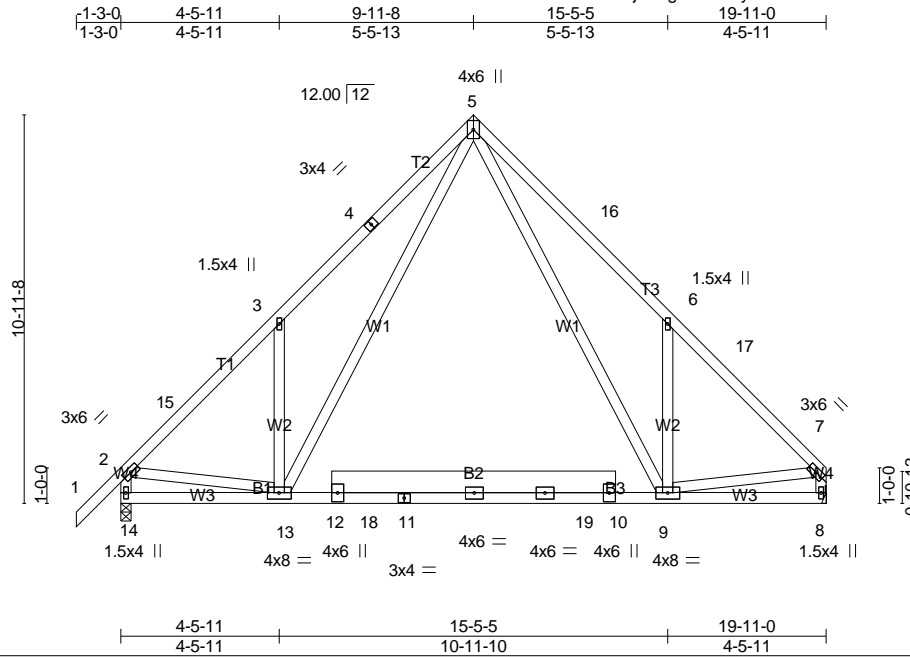
Vert: 12=-1192(F) 13=-1192(F) 14=-1192 15=-1192 16=-1192 17=-1192 18=-1190(F) 19=-1190(F) 20=-64(F) 21=-65(F)

Job 2100347-2100347A	Truss A28	Truss Type ATTIC	Qty 4	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

Job Reference (optional)
8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:21 2021 Page 1

ID:LsmcJT0Z9IP6l6kjS6xglQzVGvY-TST9YdBGcRUMiOub1MBCYKiPlkSmUgKH4AQ_tzV4Ty



Scale = 1:65.0

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 0.36	Vert(LL)	-0.07 9-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.12 9-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.00 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 162 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 B2: 2x8 SP DSS
 WEBS 2x4 SP No.3 *Except*
 W1: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 14=872/0-3-8 (min. 0-1-8), 8=782/Mechanical
 Max Horz 14=209(LC 11)
 Max Uplift 14=-18(LC 12)
 Max Grav 14=872(LC 1), 8=790(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-15=-893/14, 3-15=-755/45, 3-4=-948/198, 4-5=-844/223, 5-16=-855/237,
 6-16=-960/212, 6-17=-757/49, 7-17=-895/28, 2-14=-838/81, 7-8=-768/39
 BOT CHORD 12-13=0/411, 12-18=0/411, 11-18=0/411, 11-19=0/411, 10-19=0/411, 9-10=0/411
 WEBS 5-13=-126/582, 3-13=-357/200, 5-9=-129/597, 6-9=-364/205, 2-13=0/569, 7-9=0/561

NOTES-

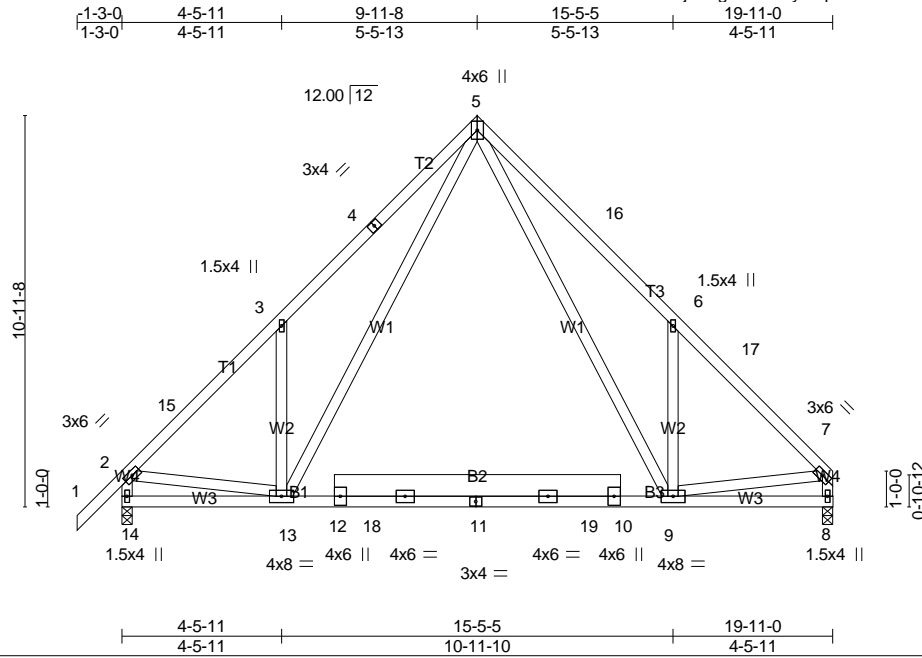
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 9-11-8, Exterior(2) 9-11-8 to 12-11-8, Interior(1) 12-11-8 to 19-9-4 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A28A	Truss Type ATTIC	Qty 1	Ply 1	BUIE RESIDENCE Job Reference (optional)
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84 Components, Dunn, NC 28334

ID:LsmcJT0Z9IP6lbkjS6xglQzVGvY-PqbvzIDW82k4xhd_9nDgdloIndQvEOidkOfX3lzV4Tw
8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:23 2021 Page 1



Scale: 3/16"=1'

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.36 BC 0.56 WB 0.35 Matrix-MS	DEFL. in (loc) l/defl L/d Vert(LL) -0.07 9-13 >999 240 Vert(CT) -0.13 9-13 >999 180 Horz(CT) 0.00 8 n/a n/a	PLATES MT20	GRIP 244/190
Weight: 162 lb FT = 20%					

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x8 SP DSS
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 14=872/0-3-8 (min. 0-1-8), 8=782/0-3-8 (min. 0-1-8)
Max Horz 14=209(LC 11)
Max Uplift 14=-18(LC 12)
Max Grav 14=872(LC 1), 8=790(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-893/14, 3-15=-755/45, 3-4=-948/198, 4-5=-844/223, 5-16=-855/237,
6-16=-960/212, 6-17=-757/49, 7-17=-895/28, 2-14=-838/81, 7-8=-768/39
BOT CHORD 12-13=0/411, 12-18=0/411, 11-18=0/411, 11-19=0/411, 10-19=0/411, 9-10=0/411
WEBS 5-13=-126/581, 3-13=-357/200, 5-9=-129/597, 6-9=-364/205, 2-13=0/568, 7-9=0/561

NOTES-

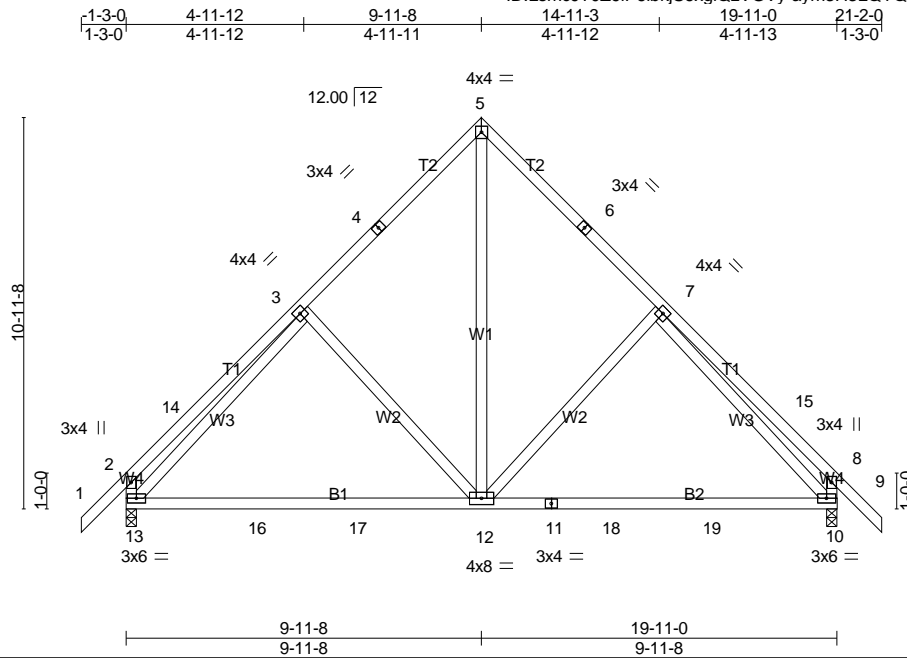
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 9-11-8, Exterior(2) 9-11-8 to 12-11-8, Interior(1) 12-11-8 to 19-9-4 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, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A29	Truss Type Common	Qty 2	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

84 Components, Dunn, NC 28334

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ID:LsmcJT0Z9IP6lkbjS6xglQzVGVy-aym3H3LQYQ7WIOz5lbwFZ3lbv24vJJfGcqyczV4Tl



Scale: 3/16"=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 0.49	Vert(LL)	-0.18 10-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.37 10-12	>644	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 136 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 2-2-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=869/0-3-8 (min. 0-1-8), 10=869/0-3-8 (min. 0-1-8)
Max Horz 13=-217(LC 10)
Max Uplift 13=-17(LC 12), 10=-17(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-418/61, 3-14=-311/87, 3-4=-676/97, 4-5=-583/121, 5-6=-583/121, 6-7=-676/97, 7-15=-311/87, 8-15=-417/61, 2-13=-442/117, 8-10=-442/117
BOT CHORD 13-16=0/616, 16-17=0/616, 12-17=0/616, 11-12=0/536, 11-18=0/536, 18-19=0/536, 10-19=0/536
WEBS 5-12=-70/560, 3-13=-526/0, 7-10=-526/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 9-11-8, Exterior(2) 9-11-8 to 12-11-8, Interior(1) 12-11-8 to 21-2-0 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, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 10. This connection is for uplift only and does not consider lateral forces.
- 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	BUIE RESIDENCE
2100347-2100347A	A30	Hip	1	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:37 2021 Page 1
 ID:LsmcJT0Z9IP6lkbjS6xglQzVGvY-?XRCv5NlrLV5crgizjTyBiN6BG8nWgYhya2GZxzV4Ti

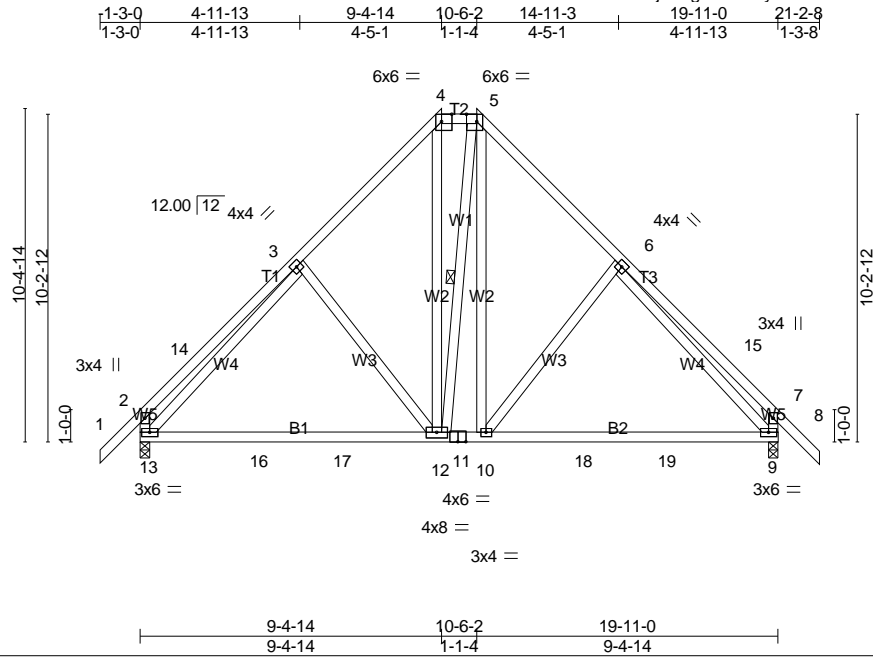


Plate Offsets (X,Y)-- [4:0-3-14,Edge], [5:0-3-14,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.17 9-10 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(CT) -0.34 9-10 >695 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			Weight: 163 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=869/0-3-8 (min. 0-1-8), 9=871/0-3-8 (min. 0-1-8)
 Max Horz 13=-206(LC 10)
 Max Uplift 13=-17(LC 12), 9=-18(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-14=-426/68, 3-14=-349/94, 3-4=-670/133, 4-5=-435/132, 5-6=-669/133, 6-15=-322/94,
 7-15=-425/67, 2-13=-452/124, 7-9=-452/123
 BOT CHORD 13-16=0/604, 16-17=0/604, 12-17=0/604, 11-12=0/468, 10-11=0/468, 10-18=0/527,
 18-19=0/527, 9-19=0/527
 WEBS 4-12=-54/294, 5-10=-45/300, 3-13=-517/0, 6-9=-519/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 9-4-14, Exterior(2) 9-4-14 to 15-0-5, Interior(1) 15-0-5 to 21-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 9. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A31	Truss Type Hip	Qty 1	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

84 Components, Dunn, NC 28334

ID:LsmcJT0Z9IP6l6kjS6xglQzVGvYy-xvZyKnPZNzIps9s358VQG7SLC3v4_gL_QuXNdzV4Tg
8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:39 2021 Page 1

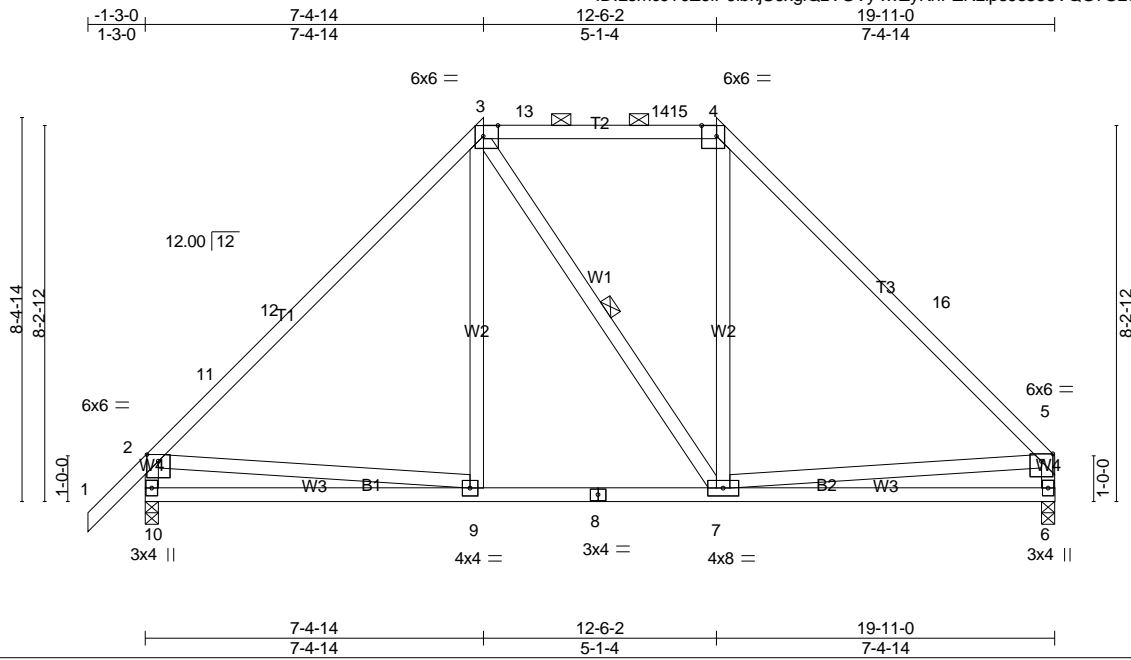


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [3:0-3-14,Edge], [4:0-3-14,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.91	Vert(LL) -0.07	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.15	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 131 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
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 3-7
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 10=872/0-3-8 (min. 0-1-8), 6=782/0-3-8 (min. 0-1-8)
Max Horz 10=162(LC 11)
Max Uplift 10=18(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-832/34, 11-12=-705/53, 3-12=-662/89, 3-13=-475/130, 13-14=-475/130, 14-15=-475/130, 4-15=-475/130, 4-16=-668/87, 5-16=-824/51, 2-10=-803/119, 5-6=-713/79
BOT CHORD 9-10=-229/493, 8-9=0/521, 7-8=0/521, 6-7=-110/311
WEBS 2-9=-186/273, 5-7=-38/285

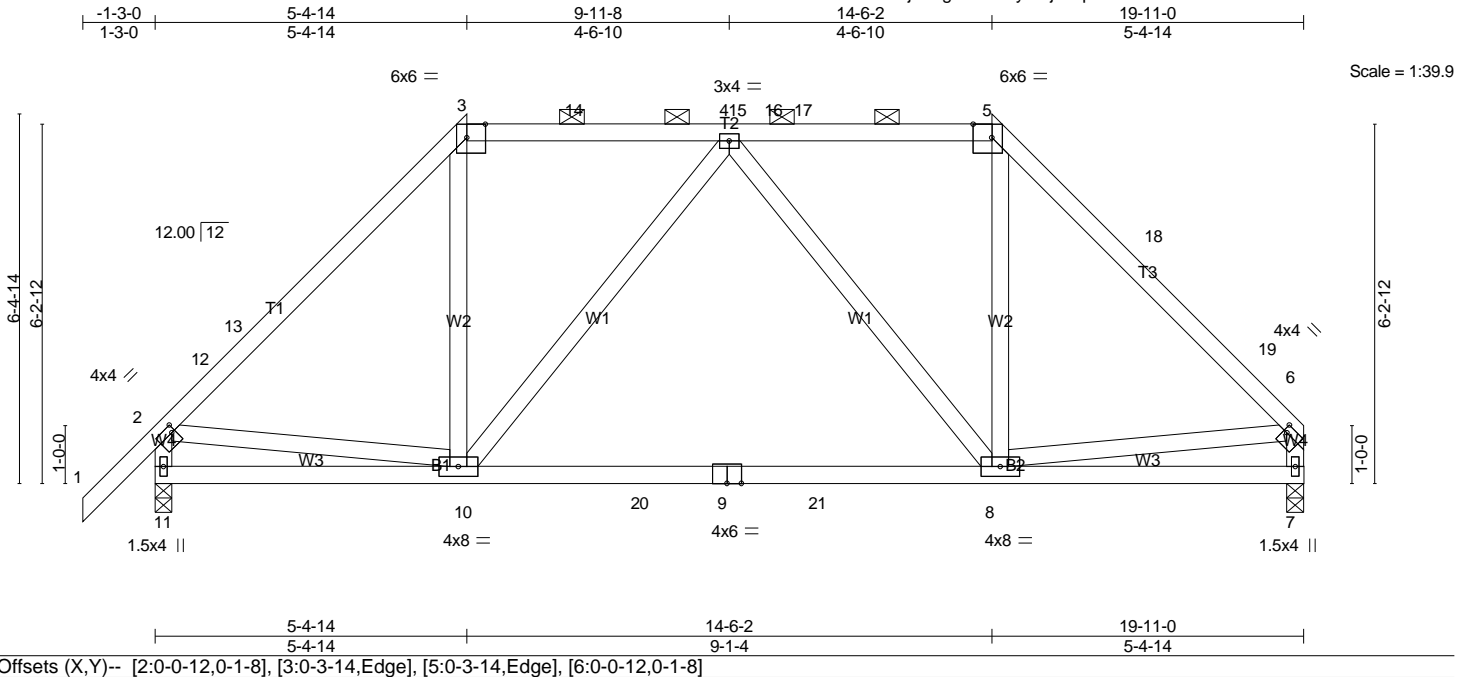
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 7-4-14, Exterior(2) 7-4-14 to 11-7-13, Interior(1) 11-7-13 to 12-6-2, Exterior(2) 12-6-2 to 16-9-1, Interior(1) 16-9-1 to 19-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss A32	Truss Type Hip	Qty 1	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:41 2021 Page 1
ID:LsmcJT0Z9IP6ljkjS6xglQzVGVy-tlhjSRpva?X5S?RCZYuMYXoTtWTSYaHtB0UizV4Te



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 0.73	Vert(LL) -0.19 8-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.26	Vert(CT) -0.35 8-10 >673 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 124 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=872/0-3-8 (min. 0-1-8), 7=782/0-3-8 (min. 0-1-8)
Max Horz 11=127(LC 11)
Max Uplift 11=18(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-866/27, 12-13=-799/36, 3-13=-744/67, 3-14=-542/99, 14-15=-543/99,
4-15=-543/99, 4-16=-550/98, 16-17=-550/98, 5-17=-549/98, 5-18=-738/68,
18-19=-753/45, 6-19=-865/32, 2-11=-839/99, 6-7=-750/58
BOT CHORD 10-20=-20/657, 9-20=-20/657, 9-21=-20/657, 8-21=-20/657
WEBS 3-10=0/329, 5-8=0/325, 2-10=0/474, 6-8=0/485

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 5-4-14, Exterior(2) 5-4-14 to 9-7-13, Interior(1) 9-7-13 to 14-6-2, Exterior(2) 14-6-2 to 18-9-1, Interior(1) 18-9-1 to 19-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	A33	Hip Girder	1	2	Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:45 2021 Page 2
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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 80 lb down and 77 lb up at 3-4-14, 86 lb down and 73 lb up at 5-5-10, 86 lb down and 73 lb up at 7-5-10, 86 lb down and 73 lb up at 9-5-10, 86 lb down and 73 lb up at 11-5-10, 86 lb down and 73 lb up at 13-5-10, 86 lb down and 73 lb up at 15-5-10, and 18 lb down and 24 lb up at 17-5-10, and 76 lb down and 45 lb up at 19-5-10 on top chord, and 128 lb down and 77 lb up at 1-5-10, 35 lb down at 3-5-10, 35 lb down at 5-5-10, 35 lb down at 7-5-10, 35 lb down at 9-5-10, 35 lb down at 11-5-10, 35 lb down at 13-5-10, 35 lb down at 15-5-10, and 111 lb down and 41 lb up at 17-5-10, and 58 lb down at 19-5-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-5=-60, 5-6=-60, 7-12=-20

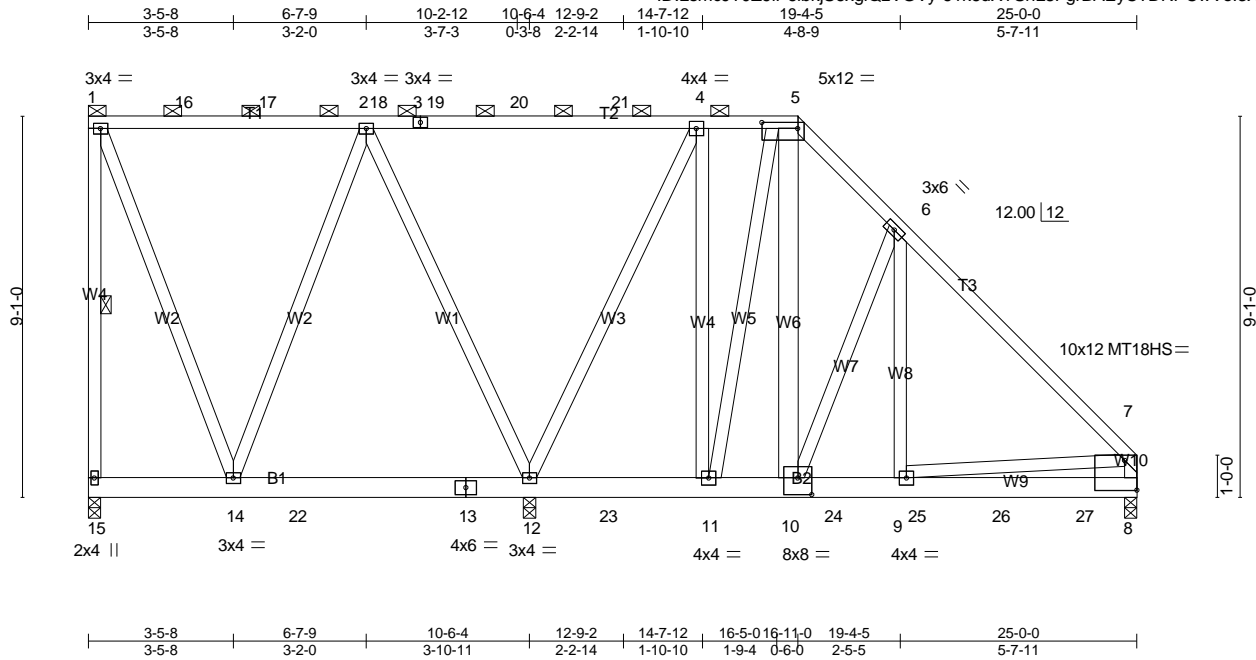
Concentrated Loads (lb)

Vert: 3=-40(B) 11=-31(B) 13=-40(B) 14=-40(B) 15=-40(B) 16=-40(B) 17=-40(B) 18=-40(B) 20=-50(B) 21=-128(B) 22=-31(B) 23=-31(B) 24=-31(B) 25=-31(B) 26=-31(B) 27=-31(B) 28=-111(B) 29=-50(B)

Job 2100347-2100347A	Truss A34	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 3	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

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8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:50 2021 Page 1



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

Plate Offsets (X,Y)-- [5:0-10-4,0-1-12], [7:Edge,0-8-9], [10:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 1.00	Vert(LL)	-0.04	8-9	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.49	Vert(CT)	-0.09	8-9	>999	MT18HS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.60	Horz(CT)	0.01	8	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code IRC2015/TP12014							
							Weight: 715 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W6: 2x6 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.): 1-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-15

REACTIONS. (lb/size) 15=1284/0-3-8 (min. 0-1-8), 8=4816/0-3-8 (min. 0-1-14), 12=5677/0-3-8 (min. 0-2-4)
Max Horz 15=-237(LC 4)
Max Uplift 15=229(LC 4)
Max Grav 15=1377(LC 26), 8=4816(LC 1), 12=5692(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-1325/212, 1-16=-386/98, 16-17=-386/98, 17-18=-386/98, 2-18=-386/98, 4-5=-2084/0, 5-6=-3896/0, 6-7=-4856/0, 7-8=-3833/0
BOT CHORD 14-22=-129/669, 13-22=-129/669, 12-13=-129/669, 12-23=0/2027, 11-23=0/2027, 10-11=0/2804, 10-24=0/3348, 9-24=0/3348, 9-25=0/919, 25-26=0/919, 26-27=0/919, 8-27=0/919
WEBS 5-10=0/5923, 6-10=-1769/0, 6-9=0/1954, 7-9=0/2450, 2-12=-1622/472, 1-14=-83/885, 2-14=-768/188, 4-12=-4716/0, 4-11=0/3456, 5-11=-3034/0

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, Except member 11-5 2x4 - 1 row at 0-8-0 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=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	A34	ROOF SPECIAL GIRDER	1	3	Job Reference (optional)

84 Components, Dunn, NC 28334

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NOTES-

- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 464 lb down and 154 lb up at 2-2-12, 464 lb down and 154 lb up at 4-2-12, 464 lb down and 154 lb up at 6-2-12, and 464 lb down and 154 lb up at 8-2-12, and 463 lb down and 124 lb up at 10-2-12 on top chord, and 4750 lb down at 16-5-0, 762 lb down at 17-8-10, 762 lb down at 19-8-10, and 762 lb down at 21-8-10, and 762 lb down at 23-8-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-60, 5-7=-60, 8-15=-20

Concentrated Loads (lb)

Vert: 10=-4745(B) 16=-398 17=-398 18=-398 19=-398 20=-414 24=-762(B) 25=-762(B) 26=-762(B) 27=-762(B)

Job 2100347-2100347A	Truss A35	Truss Type Common	Qty 6	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

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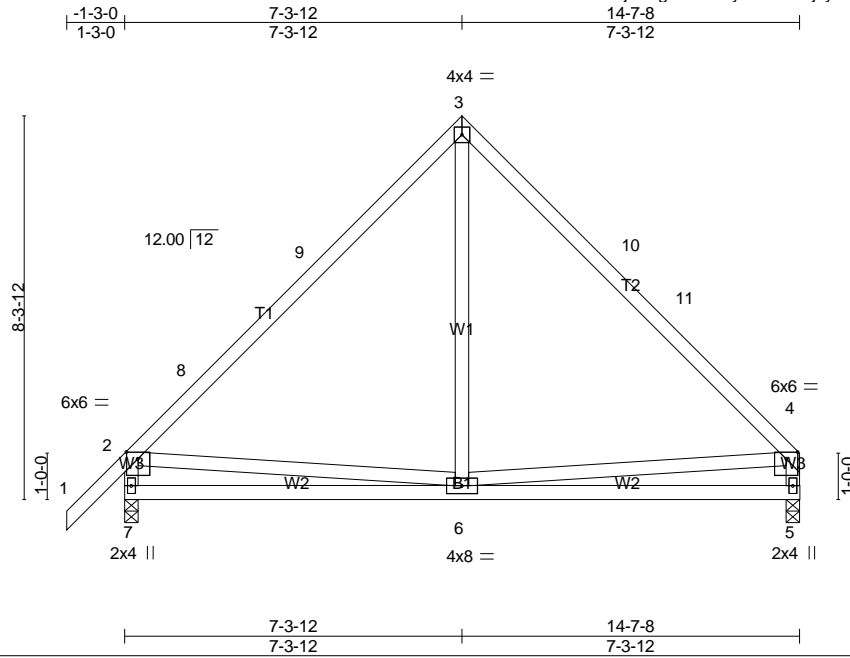


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [4:0-3-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.05	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.11	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 90 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 4-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=661/0-3-8 (min. 0-1-8), 5=569/0-3-8 (min. 0-1-8)
Max Horz 7=162(LC 11)
Max Uplift 7=-22(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-570/18, 8-9=-407/44, 3-9=-393/73, 3-10=-382/68, 10-11=-407/37, 4-11=-559/33,
2-7=-599/107, 4-5=-507/64
BOT CHORD 6-7=-200/466, 5-6=-111/281
WEBS 3-6=0/314, 2-6=-238/261

NOTES-

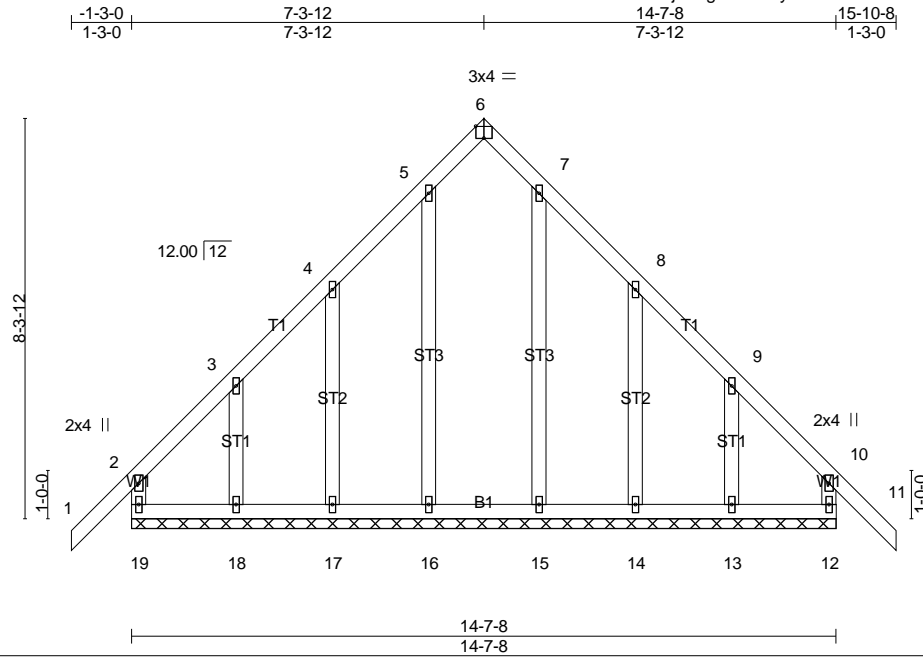
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 7-3-12, Exterior(2) 7-3-12 to 10-3-12, Interior(1) 10-3-12 to 14-5-12 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
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss A36	Truss Type GABLE	Qty 1	Ply 1	BUIE RESIDENCE
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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:54 2021 Page 1
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Scale: 1/4"=1'

Plate Offsets (X,Y)-- [6:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.01	11	n/r	120	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.01	11	n/r	120	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00	12	n/a	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R							
								Weight: 101 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 14-7-8.
 (lb) - Max Horz 19=171(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 12, 17, 18, 14, 13
 Max Grav All reactions 250 lb or less at joint(s) 19, 12, 16, 17, 18, 15, 14, 13

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) -1-3-0 to 1-9-0, Exterior(2) 1-9-0 to 7-3-12, Corner(3) 7-3-12 to 10-5-8, Exterior(2) 10-5-8 to 15-10-8 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19, 12, 17, 18, 14, and 13. This connection is for uplift only and does not consider lateral forces.
- 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.

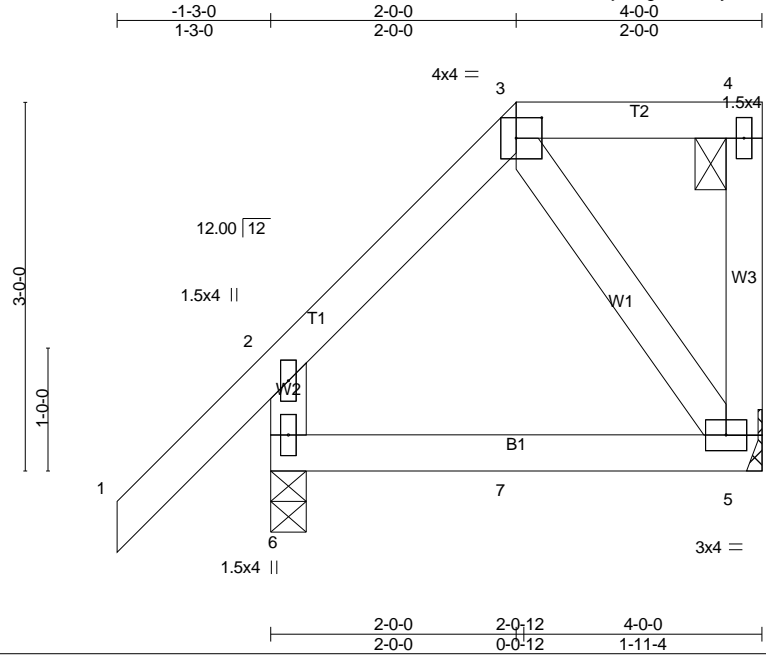
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	J01	Jack-Closed Girder	2	1	Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:56 2021 Page 1

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Scale = 1:18.8

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) 0.02	5-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.02	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.01	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=267/0-3-8 (min. 0-1-8), 5=152/Mechanical
 Max Horz 6=89(LC 5)
 Max Uplift 6=-77(LC 8), 5=-80(LC 5)
 Max Grav 6=267(LC 1), 5=168(LC 25)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 103 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

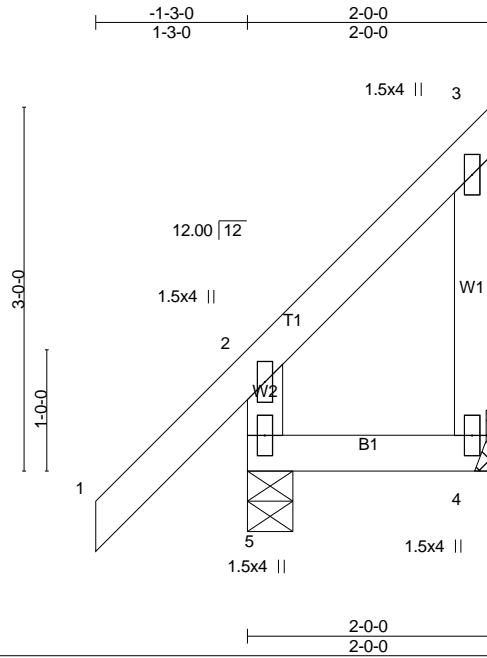
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
 Concentrated Loads (lb)
 Vert: 7=-39(F)

Job 2100347-2100347A	Truss J02	Truss Type Jack-Closed	Qty 2	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:57:58 2021 Page 1



Scale = 1:19.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014							
							Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=186/0-4-8 (min. 0-1-8), 4=34/Mechanical
Max Horz 5=83(LC 9)
Max Uplift 5=32(LC 12), 4=44(LC 9)
Max Grav 5=186(LC 1), 4=59(LC 10)

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

NOTES-

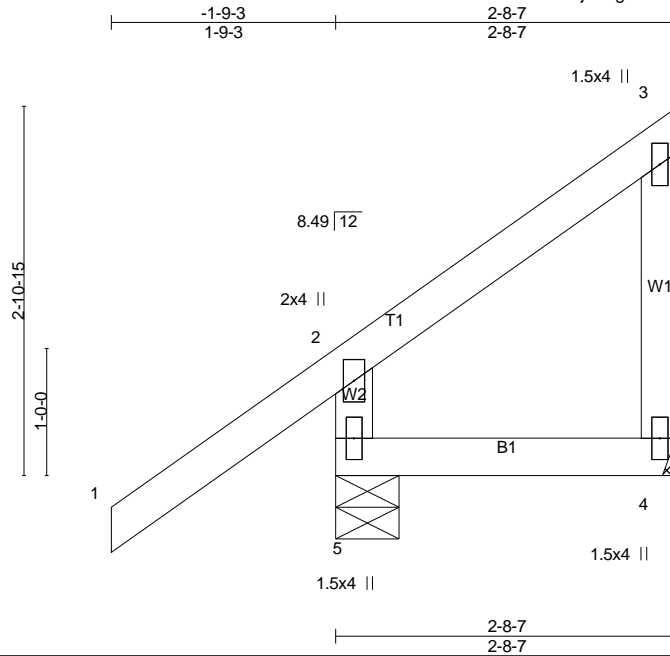
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss J03	Truss Type Jack-Closed	Qty 2	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:00 2021 Page 1
 ID:LsmcJT0Z9IP6lbkjS6xglQzVGVy-qyKukyfkQQOqtNy5q2NLdYq5wXAHPCN4Ff7_t6zV4TL



Scale = 1:18.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	-0.00	4-5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014						Weight: 17 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 2-8-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=257/0-6-0 (min. 0-1-8), 4=51/Mechanical
 Max Horz 5=82(LC 9)
 Max Uplift 5=-50(LC 12), 4=-26(LC 9)
 Max Grav 5=257(LC 1), 4=66(LC 17)

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

NOTES-

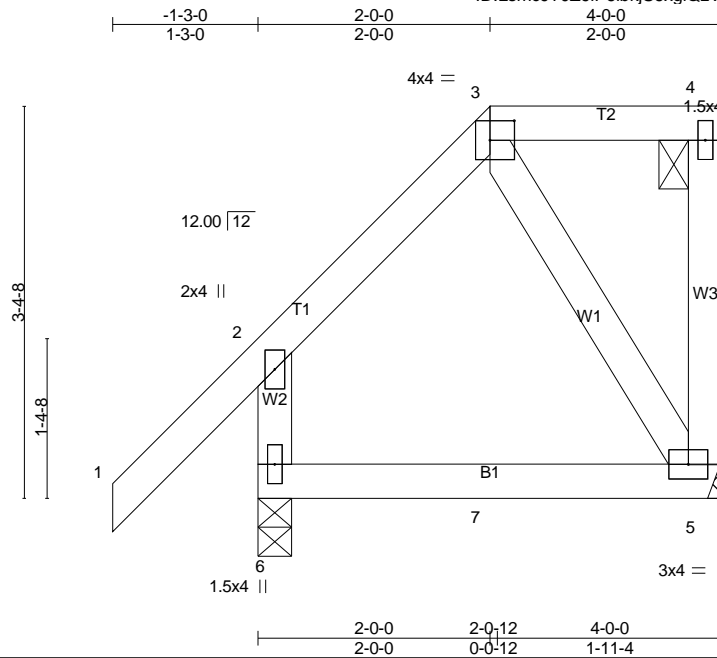
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss J05	Truss Type Jack-Closed Girder	Qty 1	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:02 2021 Page 1
ID:LsmcJT0Z9IP6lbkjS6xglQzVGvy-mKSf9eh_y1eY6h6UxTQpizvSjLpts6bNizc5x?zV4TJ



Scale = 1:19.8

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) 0.02	5-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.02	5-6	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) -0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=254/0-3-8 (min. 0-1-8), 5=139/Mechanical
Max Horz 6=98(LC 5)
Max Uplift 6=-86(LC 8), 5=-105(LC 5)
Max Grav 6=254(LC 1), 5=171(LC 25)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=105.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 128 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

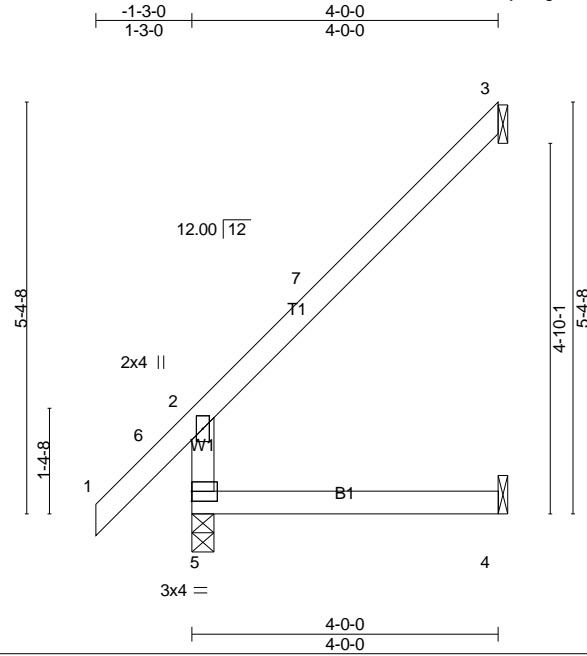
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 7=-13(B)

Job 2100347-2100347A	Truss J06	Truss Type Jack-Open	Qty 9	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

ID:LsmcJT0Z9IP6l6kjS6xglQzVGvY-EX01M_1cjLmPkrhgVBx2FBSa2I7abZ6WxdMeTRzV4TI
8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:03 2021 Page 1



Scale = 1:30.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL)	0.02	4-5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(CT)	-0.03	4-5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.05	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014						Weight: 19 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 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=251/0-3-8 (min. 0-1-8), 3=96/Mechanical, 4=41/Mechanical
Max Horz 5=154(LC 12)
Max Uplift 3=65(LC 12), 4=4(LC 12)
Max Grav 5=251(LC 1), 3=110(LC 17), 4=72(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 3-11-4 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- 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.

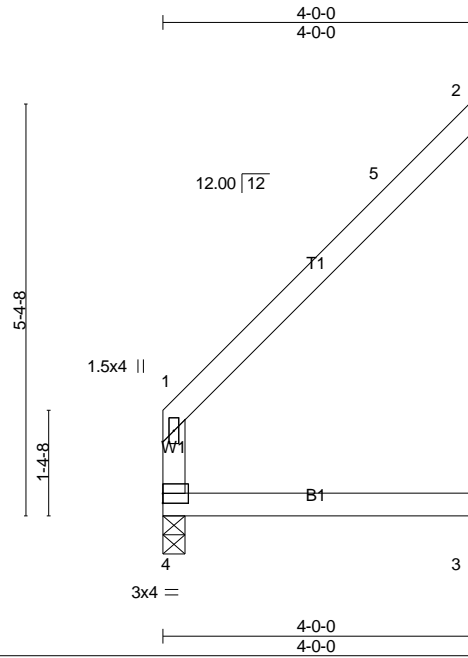
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	J06A	Jack-Open	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334

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Scale = 1:30.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	Vert(LL)	0.02	3-4	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(CT)	-0.03	3-4	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.05	2	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014						Weight: 16 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 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=152/0-3-8 (min. 0-1-8), 2=105/Mechanical, 3=47/Mechanical
 Max Horz 4=106(LC 12)
 Max Uplift 2=67(LC 12), 3=-2(LC 12)
 Max Grav 4=152(LC 1), 2=118(LC 17), 3=74(LC 3)

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

NOTES-

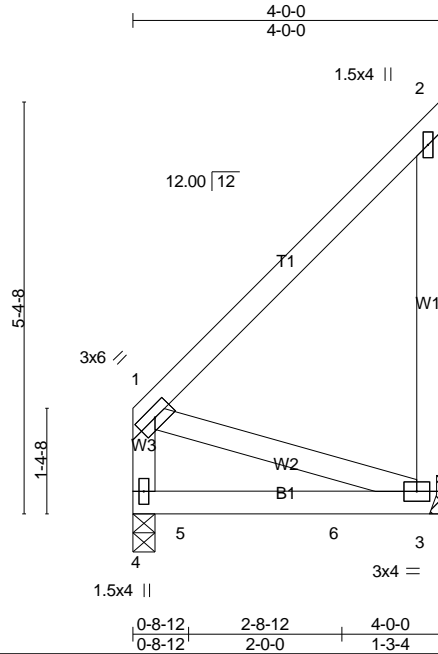
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
- 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 2100347-2100347A	Truss J07A	Truss Type Jack-Closed Girder	Qty 1	Ply 1	BUIE RESIDENCE Job Reference (optional)
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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:16 2021 Page 1
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Scale = 1:30.1

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 0.31	Vert(LL)	-0.06	3-4	>788	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.12	3-4	>379	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						Weight: 28 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.3

BRACING-

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=702/0-3-8 (min. 0-1-8), 3=559/Mechanical
Max Horz 4=131(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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) Refer to girder(s) for truss to truss connections.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 485 lb down at 0-8-12, and 480 lb down at 2-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

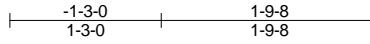
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-485(F) 6=-480(F)

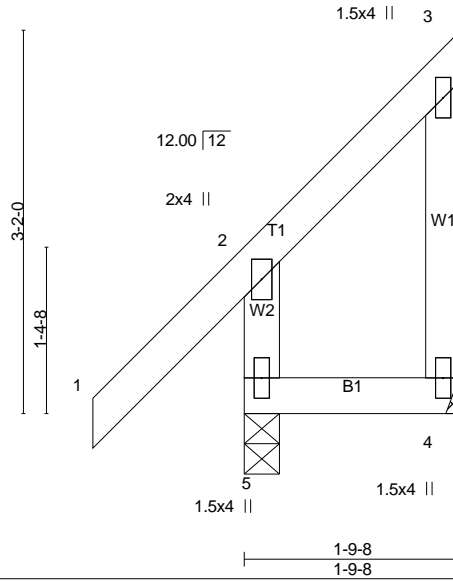
Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	J08	Jack-Closed	1	1	Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:18 2021 Page 1
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Scale = 1:19.0



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)	0.00	5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR						Weight: 15 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 1-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=183/0-3-8 (min. 0-1-8), 4=21/Mechanical
 Max Horz 5=87(LC 9)
 Max Uplift 5=-20(LC 12), 4=-63(LC 9)
 Max Grav 5=184(LC 18), 4=65(LC 10)

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

NOTES-

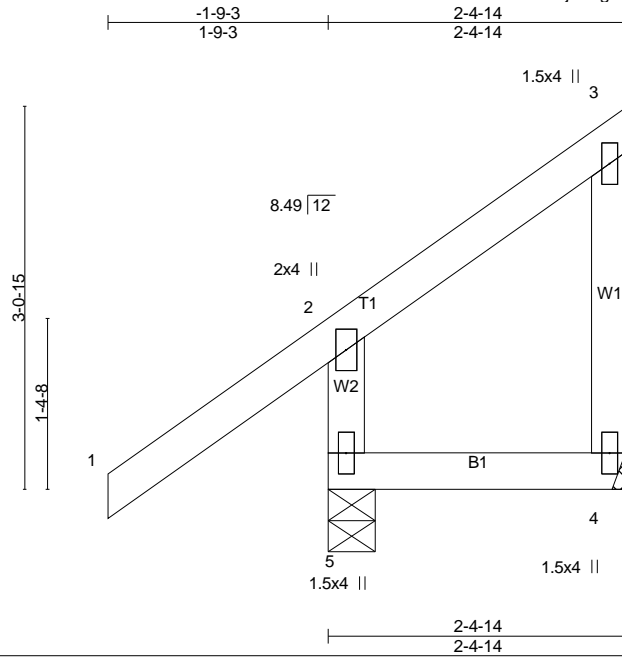
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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	BUIE RESIDENCE
2100347-2100347A	J09	Jack-Closed	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:19 2021 Page 1
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Scale = 1:18.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014							
							Weight: 16 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 2-4-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=251/0-4-9 (min. 0-1-8), 4=33/Mechanical
 Max Horz 5=86(LC 9)
 Max Uplift 5=43(LC 12), 4=40(LC 9)
 Max Grav 5=251(LC 1), 4=58(LC 10)

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

NOTES-

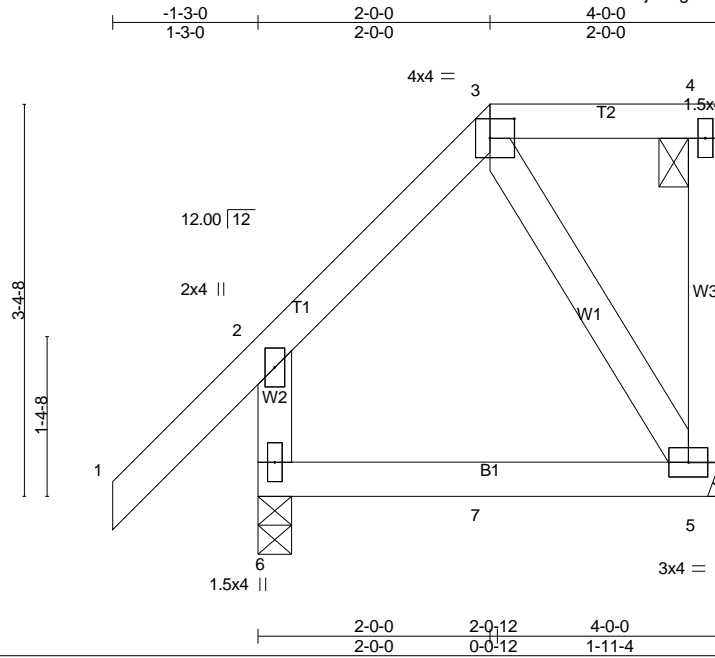
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss J10	Truss Type Jack-Closed Girder	Qty 1	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:21 2021 Page 1
ID:LsmcJT0Z9IP6lbbkjS6xglQzVGvY-i_5q88wvUt1ruc37YzFGz_BiV?H2pii94Qjb6OzV4T0



Scale = 1:19.8

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	Vert(LL)	0.03	5-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	-0.02	5-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code IRC2015/TPI2014							
							Weight: 27 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=267/0-3-8 (min. 0-1-8), 5=152/Mechanical
Max Horz 6=98(LC 5)
Max Uplift 6=-88(LC 8), 5=-106(LC 5)
Max Grav 6=267(LC 1), 5=181(LC 29)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=106.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- 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) 112 lb down and 136 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	J10	Jack-Closed Girder	1	1	Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:21 2021 Page 2
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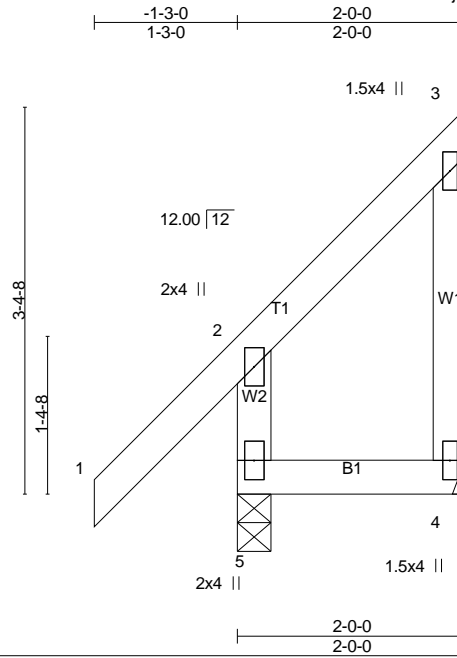
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-39(F)

Job 2100347-2100347A	Truss J11	Truss Type Jack-Closed	Qty 1	Ply 1	BUIE RESIDENCE
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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:23 2021 Page 1

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Scale = 1:20.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	Vert(LL) 0.00	5	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT) -0.00	5	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014							
							Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=186/0-3-8 (min. 0-1-8), 4=34/Mechanical
 Max Horz 5=93(LC 9)
 Max Uplift 5=-19(LC 12), 4=-63(LC 9)
 Max Grav 5=188(LC 18), 4=72(LC 10)

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

NOTES-

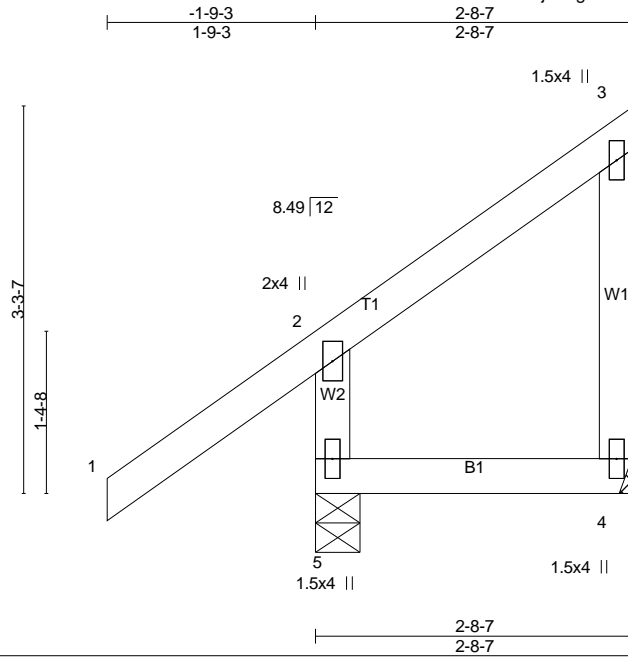
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss J12	Truss Type Jack-Closed	Qty 1	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:25 2021 Page 1
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Scale = 1:19.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	-0.00	4-5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT)	-0.00	4-5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014							
							Weight: 18 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 2-8-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=257/0-4-9 (min. 0-1-8), 4=51/Mechanical
 Max Horz 5=92(LC 9)
 Max Uplift 5=-41(LC 12), 4=-39(LC 9)
 Max Grav 5=257(LC 1), 4=72(LC 17)

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

NOTES-

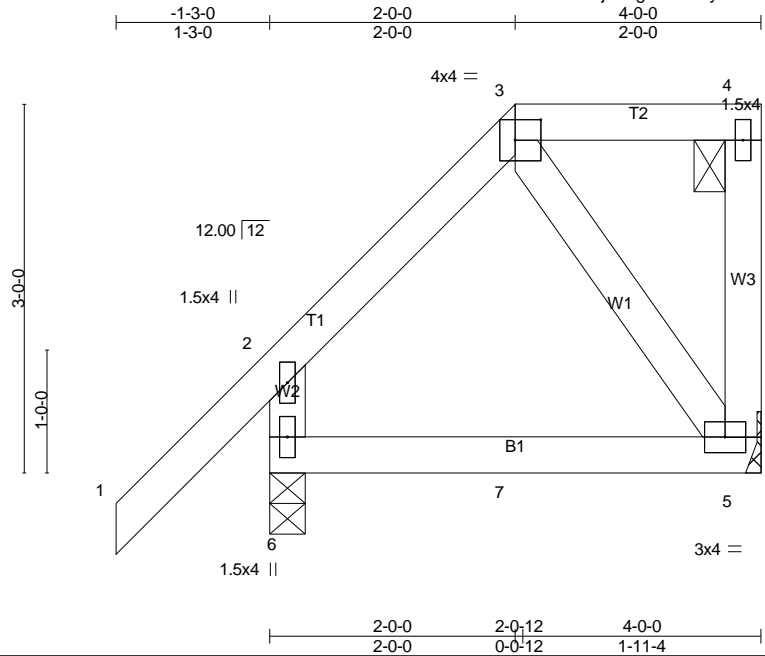
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss J13	Truss Type Jack-Closed Girder	Qty 2	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

ID:LsmcJT0Z9IP6l6kjS6xglQzVGVy-X8T6OB_g3jo?cXWHvDMgDFRkcQMzDPq2SMAvJ2zV4Sw
8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:27 2021 Page 1



Scale = 1:18.8

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL)	0.02	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT)	-0.02	5-6	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.01	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS						
							Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=267/0-3-8 (min. 0-1-8), 5=152/Mechanical
Max Horz 6=89(LC 5)
Max Uplift 6=-77(LC 8), 5=-80(LC 5)
Max Grav 6=267(LC 1), 5=168(LC 25)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 90 lb down and 103 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

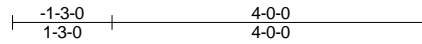
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 7=-39(B)

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	J14	Jack-Open	24	1	Job Reference (optional)

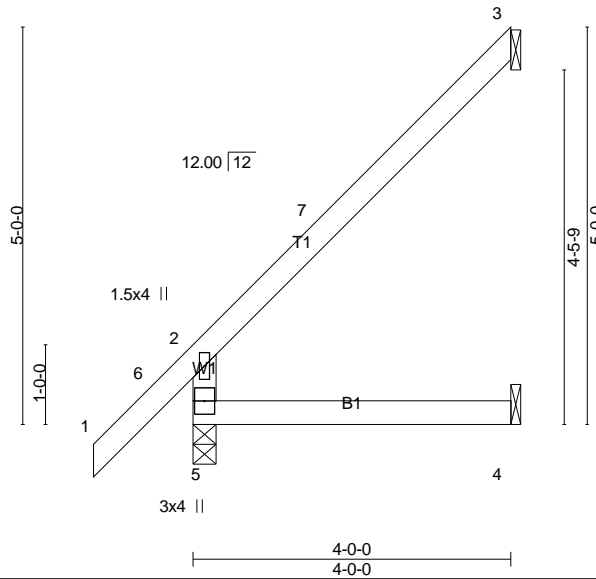
84 Components, Dunn, NC 28334

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Scale = 1:29.0



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 0.30	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.02	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR						Weight: 18 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 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=251/0-3-8 (min. 0-1-8), 3=95/Mechanical, 4=41/Mechanical
 Max Horz 5=147(LC 12)
 Max Uplift 3=-59(LC 12)
 Max Grav 5=251(LC 1), 3=108(LC 17), 4=72(LC 3)

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

NOTES-

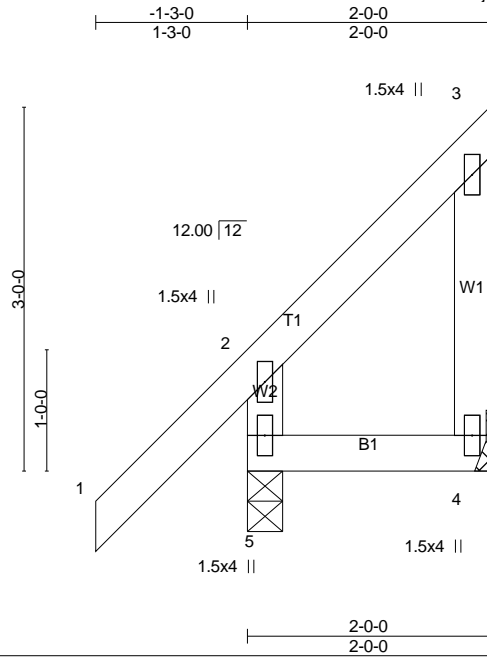
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) -1-3-0 to 1-9-0, Interior(1) 1-9-0 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 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 2100347-2100347A	Truss J15	Truss Type Jack-Closed	Qty 2	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

ID:LsmcJT0Z9IP6ljkjS6xglQzVGvy-PvicEZ1A7xlR58q283RcN5cQn1kT9D2eNz87SpzV4Ss
8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:31 2021 Page 1



Scale = 1:19.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014							
							Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=186/0-3-8 (min. 0-1-8), 4=34/Mechanical
Max Horz 5=83(LC 11)
Max Uplift 5=32(LC 12), 4=44(LC 9)
Max Grav 5=186(LC 1), 4=59(LC 10)

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

NOTES-

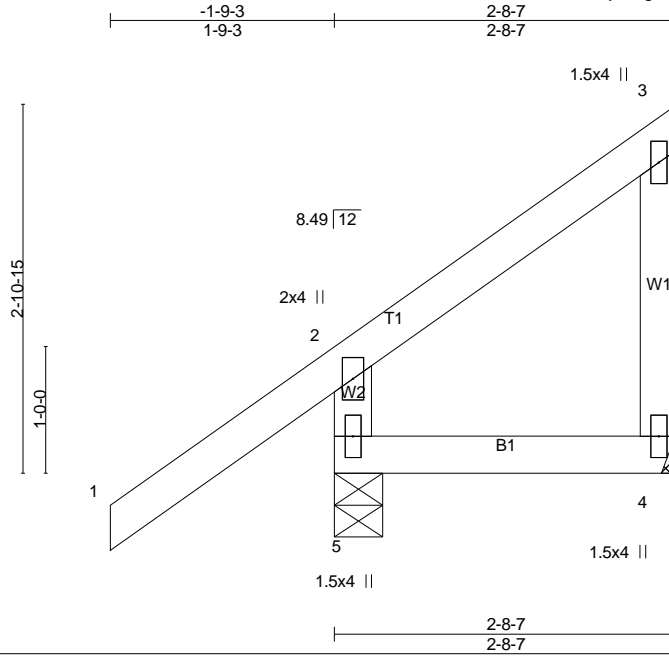
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss J16	Truss Type Jack-Closed	Qty 2	Ply 1	BUIE RESIDENCE
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Scale = 1:18.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR						Weight: 17 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 2-8-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=257/0-4-9 (min. 0-1-8), 4=51/Mechanical
 Max Horz 5=82(LC 9)
 Max Uplift 5=-50(LC 12), 4=-26(LC 9)
 Max Grav 5=257(LC 1), 4=66(LC 17)

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

NOTES-

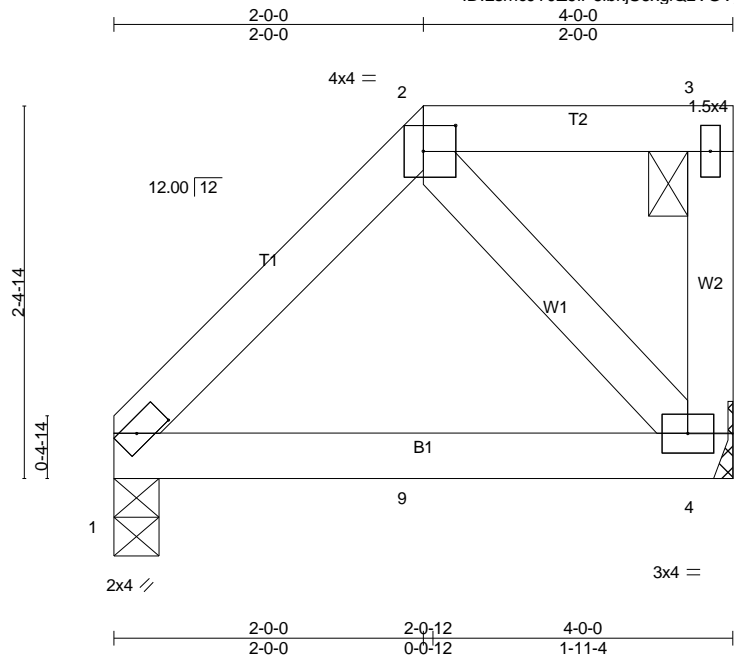
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss J17	Truss Type Jack-Closed Girder	Qty 1	Ply 1	BUIE RESIDENCE Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:34 2021 Page 1
ID:LsmcJT0Z9IP6lbkjS6xglQzVGvYy-qUOlSa43Qsg?ycZdpB_J?jEy5EkvMaV43xMn38zV4Sp



Scale = 1:14.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) 0.01	4-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.02	4-6	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP					Weight: 20 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 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=151/0-3-8 (min. 0-1-8), 4=148/Mechanical
Max Horz 1=56(LC 7)
Max Uplift 1=-30(LC 8), 4=-57(LC 5)
Max Grav 1=152(LC 29), 4=156(LC 28)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 74 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

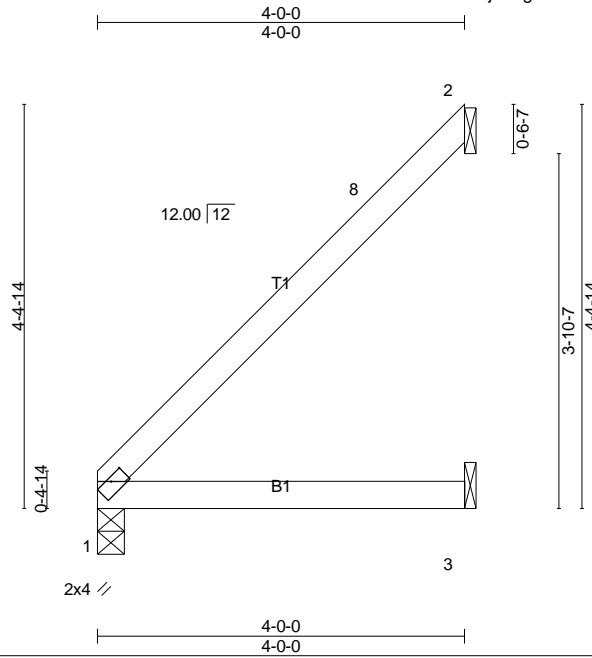
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 2-7=-60, 2-3=-60, 1-4=-20

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	J18	Jack-Open	7	1	Job Reference (optional)

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Scale = 1:25.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.01	3-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.02	3-5	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP						
							Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 4'-0-0 oc purlins.
 Rigid ceiling directly applied or 10'-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=155/0-3-8 (min. 0-1-8), 2=100/Mechanical, 3=51/Mechanical
 Max Horz 1=86(LC 12)
 Max Uplift 2=52(LC 12)
 Max Grav 1=155(LC 1), 2=109(LC 17), 3=73(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-11-4 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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.

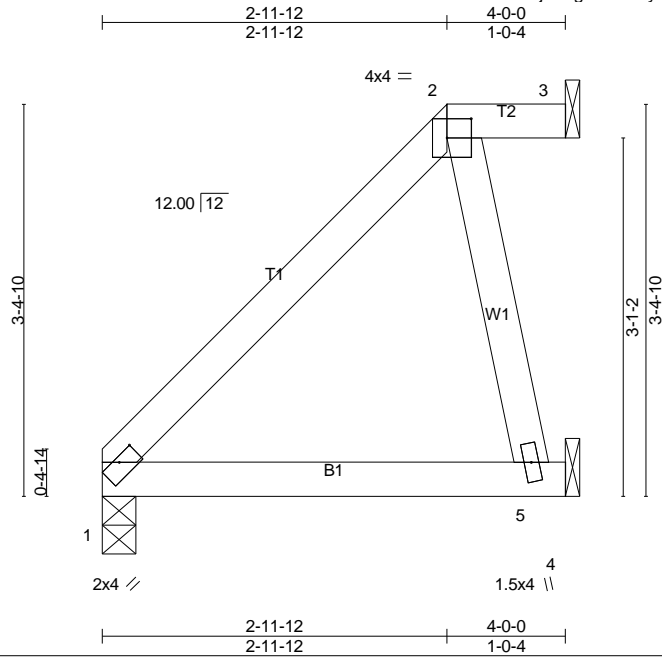
LOAD CASE(S) Standard

Job 2100347-2100347A	Truss J19	Truss Type Jack-Open	Qty 1	Ply 1	BUIE RESIDENCE
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ID:LsmcJT0Z9IP6ljkjS6xglQzVGVy-iGdGiy7ZU5BRRDsO213F9ZOdWs7BIORg_ZK?CvzV4SI



Scale = 1:19.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.13	Vert(LL) -0.01	5-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02	5-7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	3	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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except 2-0-0 oc purlins: 2-3.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=148/0-3-8 (min. 0-1-8), 3=29/Mechanical, 5=131/Mechanical
 Max Horz 1=65(LC 12)
 Max Uplift 3=-8(LC 8), 5=-21(LC 12)
 Max Grav 1=148(LC 1), 3=29(LC 1), 5=135(LC 17)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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.
- Refer to girder(s) for truss to truss connections.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 5. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

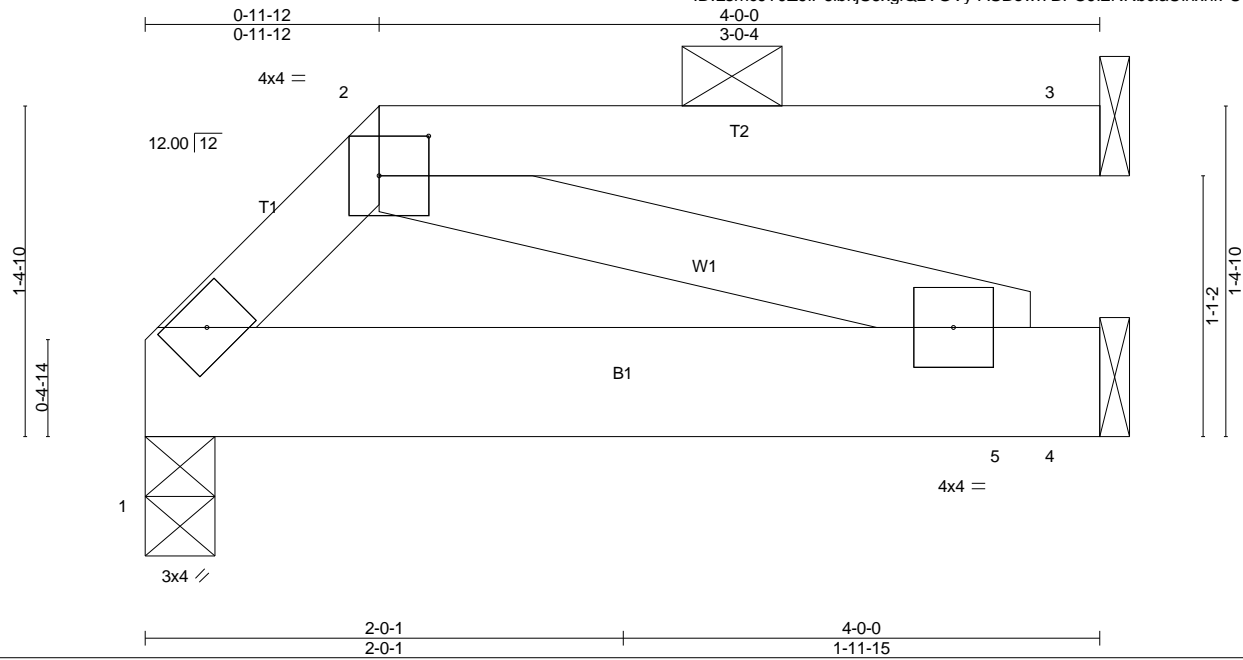
LOAD CASE(S) Standard

Job 2100347-2100347A	Truss J20	Truss Type Jack-Open	Qty 1	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

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ID:LsmcJT0Z9IP6lkbjS6xglQzVGvVy-ASBewl7BFOJl2NRbclaUinxnfFUT1rgpDD4YkLzV4Sk



Scale = 1:9.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) -0.00 5-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.00 5-7 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 20 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 4-0-0 oc purlins, except 2-0-0 oc purlins: 2-3.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=154/0-3-8 (min. 0-1-8), 3=89/Mechanical, 4=63/Mechanical
 Max Horz 1=20(LC 12)
 Max Uplift 3=-26(LC 8)
 Max Grav 1=154(LC 1), 3=89(LC 1), 4=84(LC 3)

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

NOTES-

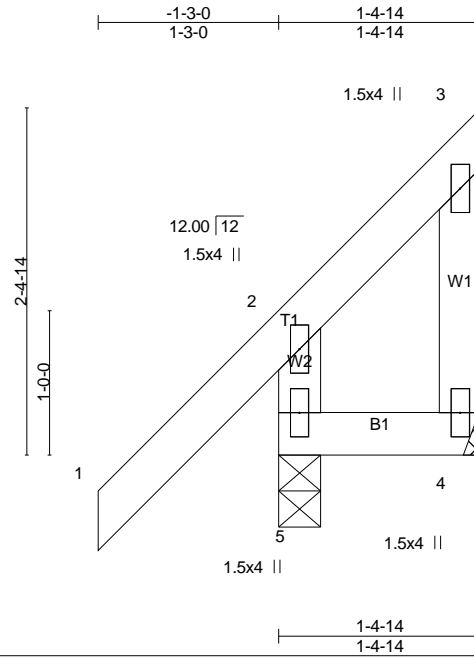
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	BUIE RESIDENCE
2100347-2100347A	J21	Jack-Closed	1	1	Job Reference (optional)

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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:41 2021 Page 1
 ID:LsmcJT0Z9IP6lbkjS6xglQzVGvVy-7rJOKz9Sm0Z0lhbzjAcynC07S39DVIW6gXZfoEzV4Si



Scale: 3/4"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL) 0.00	5	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT) -0.00	5	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) -0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014							
							Weight: 12 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 1-4-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=181/0-3-8 (min. 0-1-8), 4=-8/Mechanical
 Max Horz 5=78(LC 11)
 Max Uplift 5=-49(LC 12), 4=-41(LC 9)
 Max Grav 5=181(LC 1), 4=33(LC 8)

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

NOTES-

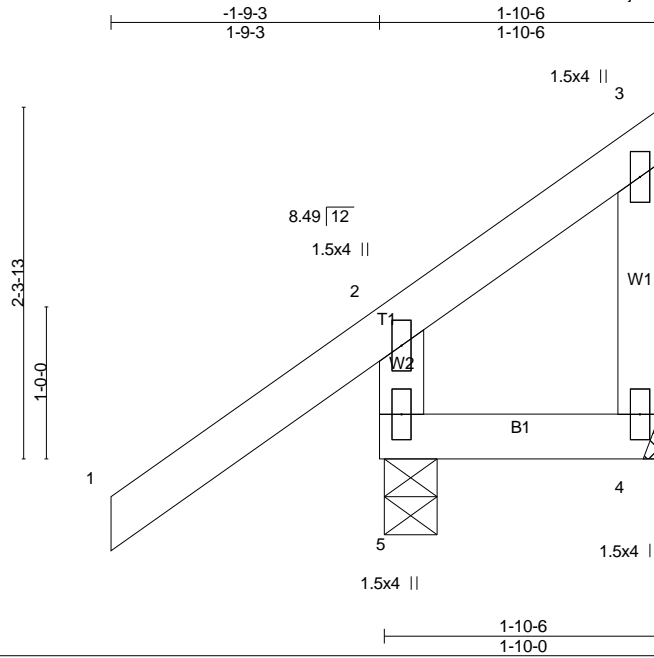
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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 2100347-2100347A	Truss J22	Truss Type Jack-Closed	Qty 1	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

ID:LsmcJT0Z9lP6lbkjS6xglQzVGy-3DR9lBildpkX_lMrafQsd6R3trhze0P8r2lt6zV4Sg
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Scale = 1:15.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MR						
	Code IRC2015/TPI2014							
							Weight: 13 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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=248/0-4-3 (min. 0-1-8), 4=-7/Mechanical
Max Horz 5=77(LC 11)
Max Uplift 5=-66(LC 12), 4=-25(LC 9)
Max Grav 5=248(LC 1), 4=32(LC 13)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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.

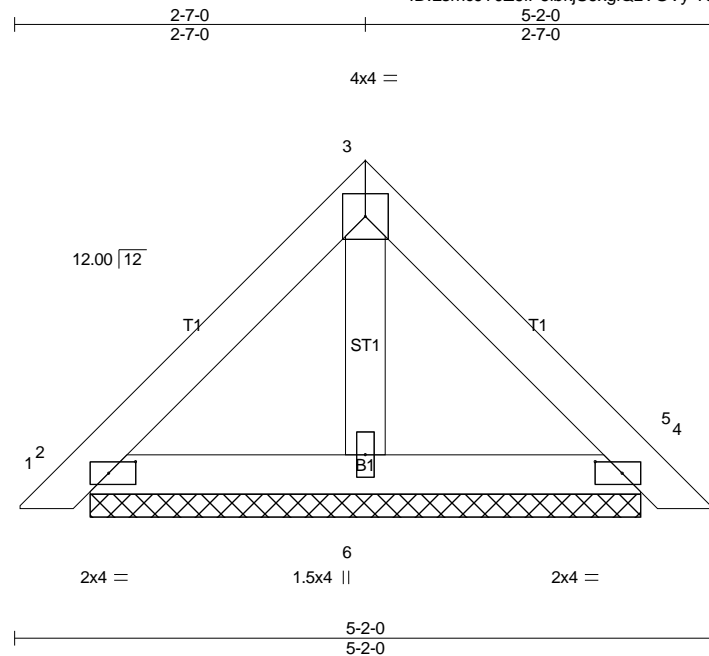
LOAD CASE(S) Standard

Job 2100347-2100347A	Truss PB01	Truss Type Piggyback	Qty 7	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

ID:LsmcJT0Z9IP6lbkjS6xglQzVGVy-?cYvALCyqE3Rnlvky?huy2BqdgX7RYHib9Xsx?zV4Se

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Scale = 1:17.0

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) 0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P						

Weight: 19 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 5-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=119/4-0-10 (min. 0-1-8), 4=119/4-0-10 (min. 0-1-8), 6=125/4-0-10 (min. 0-1-8)

Max Horz 2=41(LC 11)
 Max Uplift 2=-18(LC 12), 4=-18(LC 12)
 Max Grav 2=119(LC 1), 4=119(LC 1), 6=126(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss PB02	Truss Type Piggyback	Qty 1	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:51 2021 Page 1
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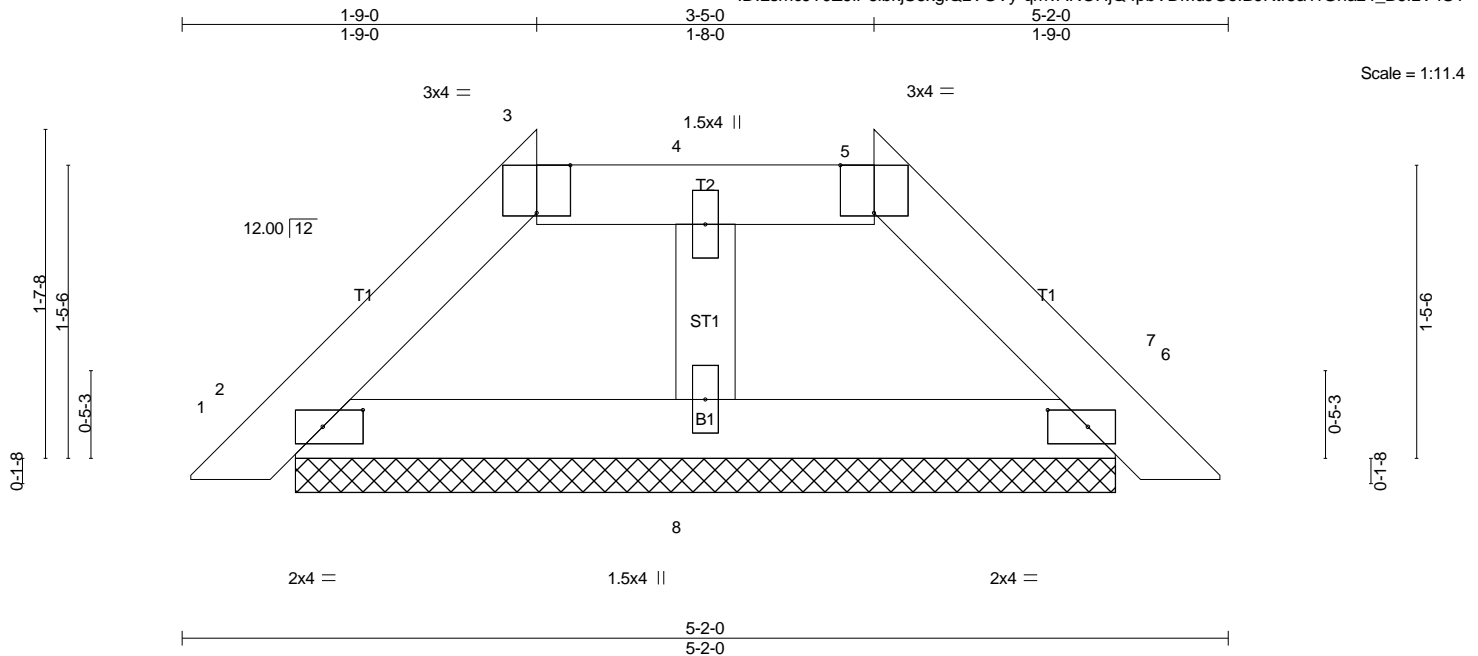


Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [3:0-2-0,Edge], [5:0-2-0,Edge], [6:0-2-6,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.02	Vert(LL) 0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 17 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 5-2-0 oc purlins, except 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=118/4-0-10 (min. 0-1-8), 6=118/4-0-10 (min. 0-1-8), 8=127/4-0-10 (min. 0-1-8)
Max Horz 2=25(LC 11)
Max Uplift 2=-13(LC 12), 6=-13(LC 12)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V_{asd}=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 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 2100347-2100347A	Truss PB03	Truss Type Piggyback	Qty 1	Ply 1	BUIE RESIDENCE Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:55 2021 Page 1
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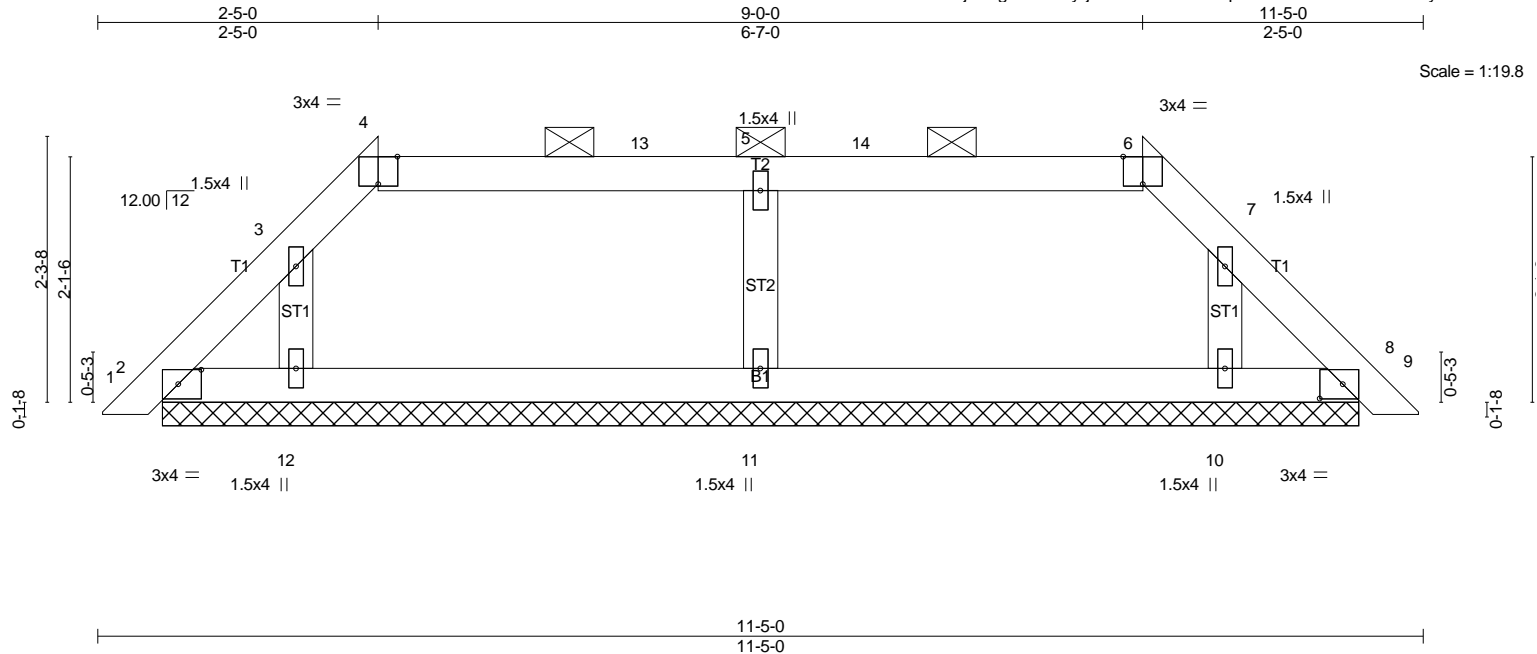


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-2-0,Edge], [6:0-2-0,Edge], [8:0-2-6,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) 0.00 8 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) 0.00 8 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 40 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 2-0-0 oc purlins (6-0-0 max.); 4-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 10-3-10.
(lb) - Max Horz 2=37(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 11
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 10 except 11=324(LC 1)

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

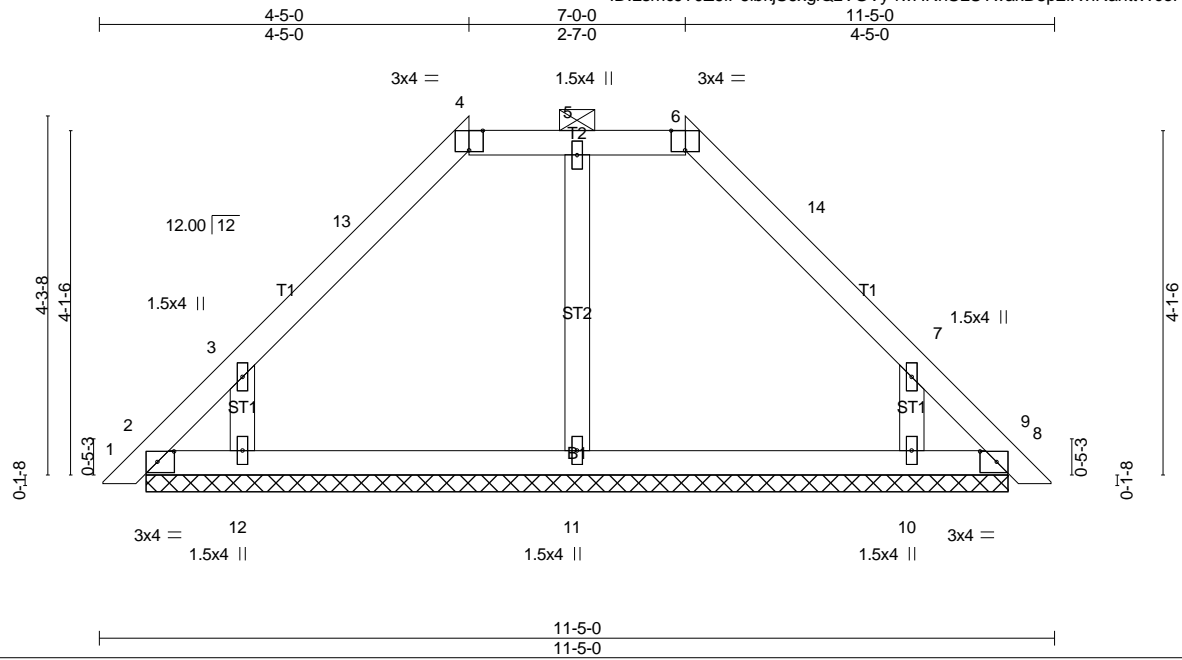
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-2-14 to 6-7-15, Interior(1) 6-7-15 to 9-0-0, Exterior(2) 9-0-0 to 11-2-2 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, and 11. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 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 2100347-2100347A	Truss PB04	Truss Type Piggyback	Qty 1	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:57 2021 Page 1



Scale = 1:27.5

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-2-0,Edge], [6:0-2-0,Edge], [8:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) 0.00	8	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.00	8	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 46 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 2-0-0 oc purlins (6-0-0 max.); 4-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 10-3-10.
(lb) - Max Horz 2=72(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 12, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 4-5-0, Exterior(2) 4-5-0 to 11-2-14 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 12, and 10. This connection is for uplift only and does not consider lateral forces.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 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

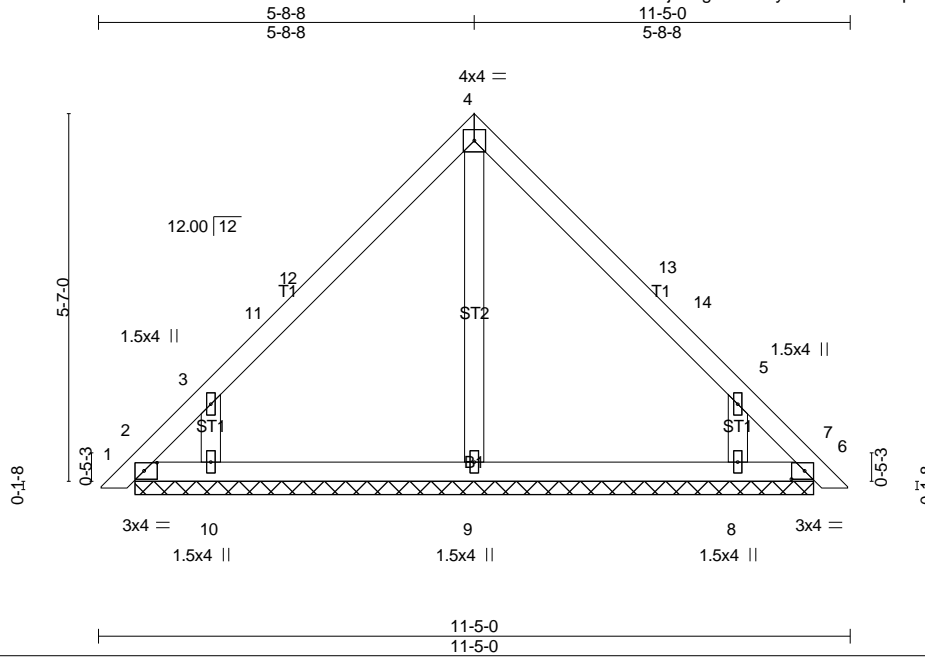
Job 2100347-2100347A	Truss PB05	Truss Type Piggyback	Qty 4	Ply 1	BUIE RESIDENCE
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84 Components, Dunn, NC 28334

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8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:58:59 2021 Page 1

Job Reference (optional)



Scale = 1:35.0

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [6:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	-0.00	6	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	-0.00	6	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 49 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 10-3-10.
(lb) - Max Horz 2=-96(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=318(LC 17), 8=317(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-276/185, 5-8=-276/185

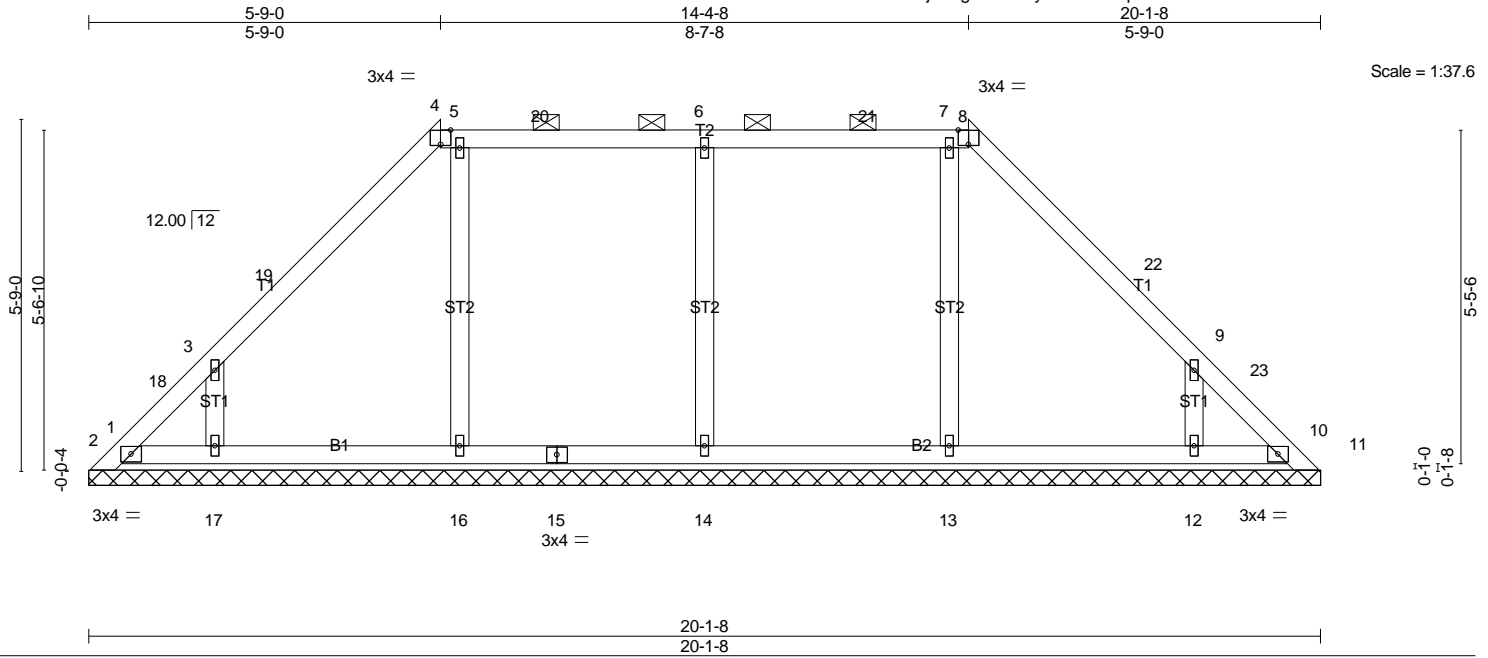
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 5-8-8, Exterior(2) 5-8-8 to 8-8-8, Interior(1) 8-8-8 to 11-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job 2100347-2100347A	Truss PB06	Truss Type GABLE	Qty 1	Ply 1	BUIE RESIDENCE
					Job Reference (optional)

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8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:59:02 2021 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	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	Weight: 91 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	11	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S									

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.); 4-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 20-1-8.
(lb) - Max Horz 1=95(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 2, 14, 17, 12, 10
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 2, 10 except 14=430(LC 23), 16=345(LC 17), 17=290(LC 17), 13=330(LC 24), 12=287(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 6-14=-259/78

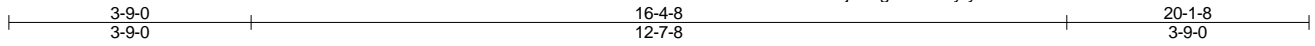
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 5-9-0, Exterior(2) 5-9-0 to 10-0-12, Interior(1) 10-0-12 to 14-4-8, Exterior(2) 14-4-8 to 18-7-7, Interior(1) 18-7-7 to 19-10-10 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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 14, 17, 12, and 10. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 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 2100347-2100347A	Truss PB07	Truss Type Piggyback	Qty 1	Ply 1	BUIE RESIDENCE Job Reference (optional)
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84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Thu Apr 1 13:59:04 2021 Page 1
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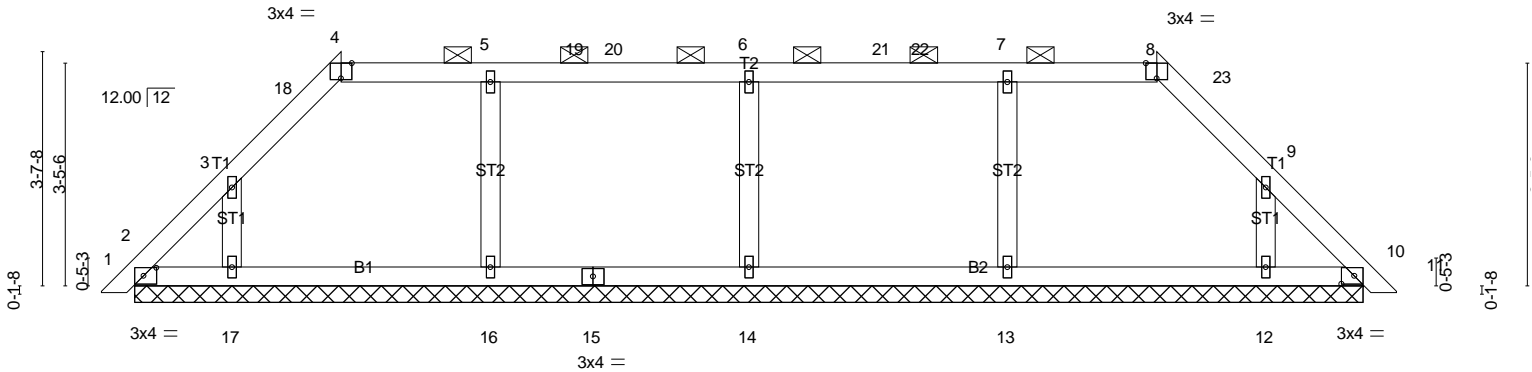


Plate Offsets (X,Y)--	[2:0-2-6,0-1-8], [4:0-2-0,Edge], [8:0-2-0,Edge], [10:0-2-6,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.00	10	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 80 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.); 4-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 19-0-2.
(lb) - Max Horz 2=60(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 16, 17, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 17, 12, 10 except 14=330(LC 21), 16=301(LC 21), 13=301(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 6-14=-251/73

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-2-14 to 3-2-14, Interior(1) 3-2-14 to 3-9-0, Exterior(2) 3-9-0 to 7-11-15, Interior(1) 7-11-15 to 16-4-8, Exterior(2) 16-4-8 to 19-10-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 14, 16, 17, 13, 12, and 10. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 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