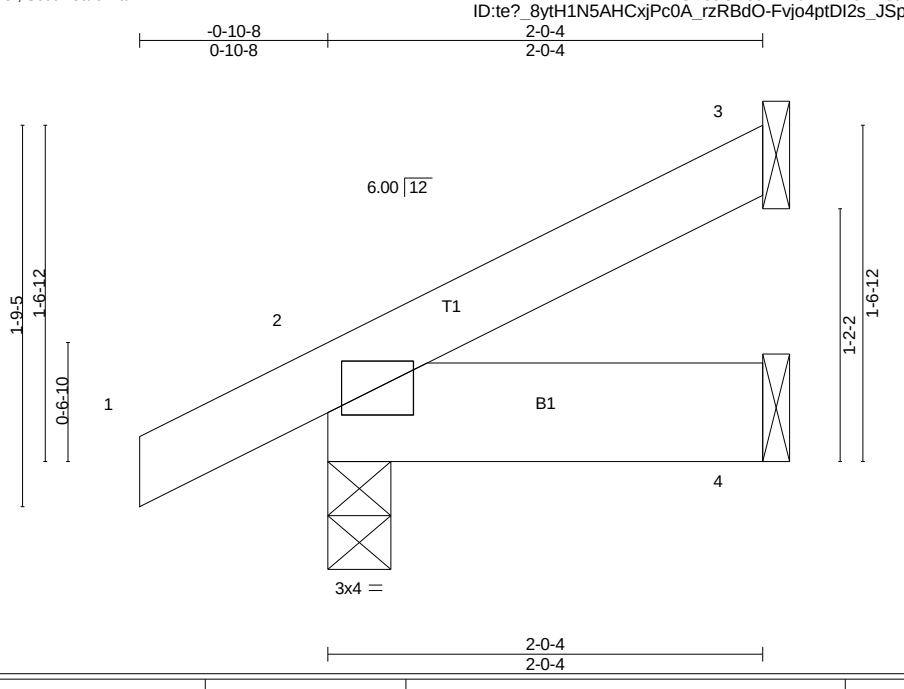
Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	J01	Jack-Open	4	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:35:40 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-Fvjo4ptDI2s_JSpv4?OYYlBzgluMGCUUOxd?7BzQUMX



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	2	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	2	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 10 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-0-4 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)
3 = 37/Mechanical
2 = 151/0-3-8 (min. 0-1-8)
4 = 18/Mechanical
Max Horz
2 = 49(LC 14)
Max Uplift
3 = -30(LC 14)
2 = -29(LC 14)
Max Grav
3 = 53(LC 21)
2 = 207(LC 21)
4 = 36(LC 7)

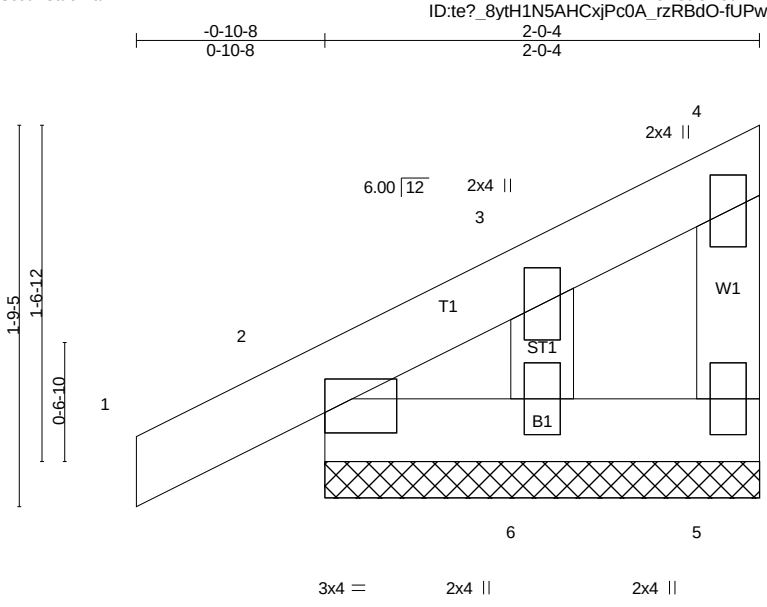
FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES- (10-11)
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3 and 29 lb uplift at joint 2.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	J01A	Monopitch Supported Gable	2	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:35:43 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-fUPwiqv6bzEZAwYUl8xF9NpUSWw2TZ?w4vsfkWzQUMU



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	1	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 10 lb	FT = 0%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-0-4 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 = 32/2-0-4 (min. 0-1-8)
2 = 113/2-0-4 (min. 0-1-8)
6 = 57/2-0-4 (min. 0-1-8)
Max Horz
2 = 46(LC 11)
Max Uplift
5 = -7(LC 11)
2 = -20(LC 14)
6 = -23(LC 14)
Max Grav
5 = 42(LC 21)
2 = 157(LC 21)
6 = 71(LC 21)

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

NOTES- (13-14)
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. 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.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5, 20 lb uplift at joint 2 and 23 lb uplift at joint 6.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	PB01	Piggyback	18	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:35:46 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-4353Lsy_uuc71NH3RGVyn0RzOjvzgw5Nmt4JLrzQUMR

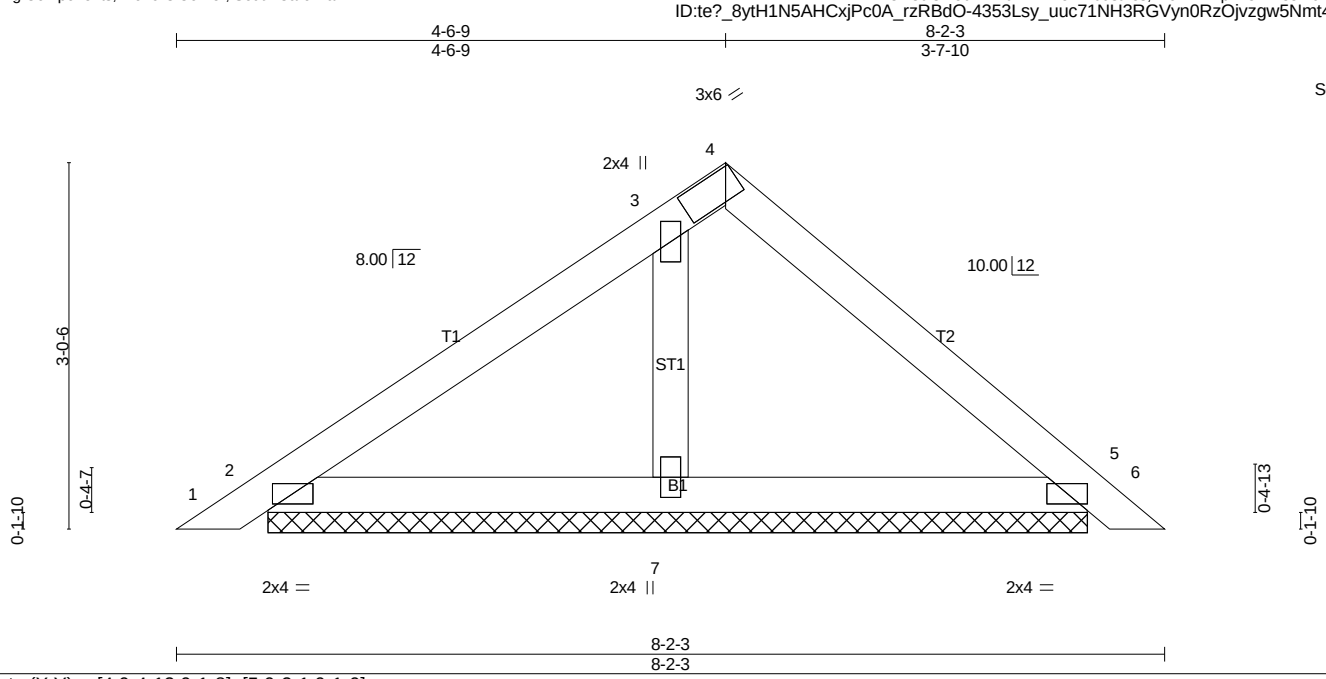


Plate Offsets (X,Y)-- [4:0-4-12,0-1-8], [5:0-2-1,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	6	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	0.01	6	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 28 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 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)
2 = 125/6-9-6 (min. 0-1-8)
5 = 126/6-9-6 (min. 0-1-8)
7 = 346/6-9-6 (min. 0-1-8)
Max Horz
2 = 65(LC 11)
Max Uplift
2 = -2(LC 13)
5 = -20(LC 13)
7 = -128(LC 12)
Max Grav
2 = 125(LC 1)
5 = 165(LC 31)
7 = 360(LC 20)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
3-7=-275/170

NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 2, 20 lb uplift at joint 5 and 128 lb uplift at joint 7.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	PB02	Piggyback	1	1	Job Reference (optional)

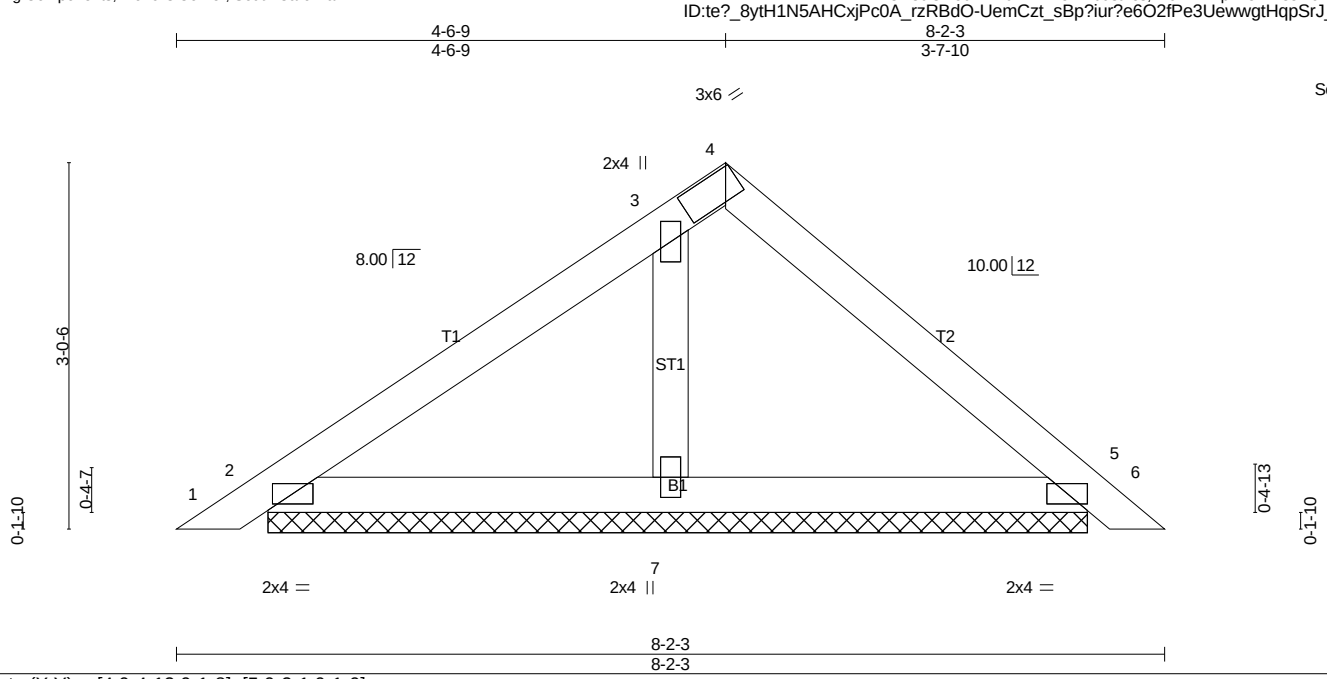


Plate Offsets (X,Y)-- [4:0-4-12,0-1-8], [5:0-2-1,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	6	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	0.01	6	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 28 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 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)
2 = 125/6-9-6 (min. 0-1-8)
5 = 126/6-9-6 (min. 0-1-8)
7 = 346/6-9-6 (min. 0-1-8)
Max Horz
2 = 65(LC 11)
Max Uplift
2 = -2(LC 13)
5 = -20(LC 13)
7 = -128(LC 12)
Max Grav
2 = 125(LC 1)
5 = 165(LC 31)
7 = 360(LC 20)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
3-7=-275/170

NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 2, 20 lb uplift at joint 5 and 128 lb uplift at joint 7.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	PB03	Piggyback	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:35:52 2022 Page 1

ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-uDSKbv0lUkNHIlkCnXcM1Hh168?64eMF8pXeYVzQUML

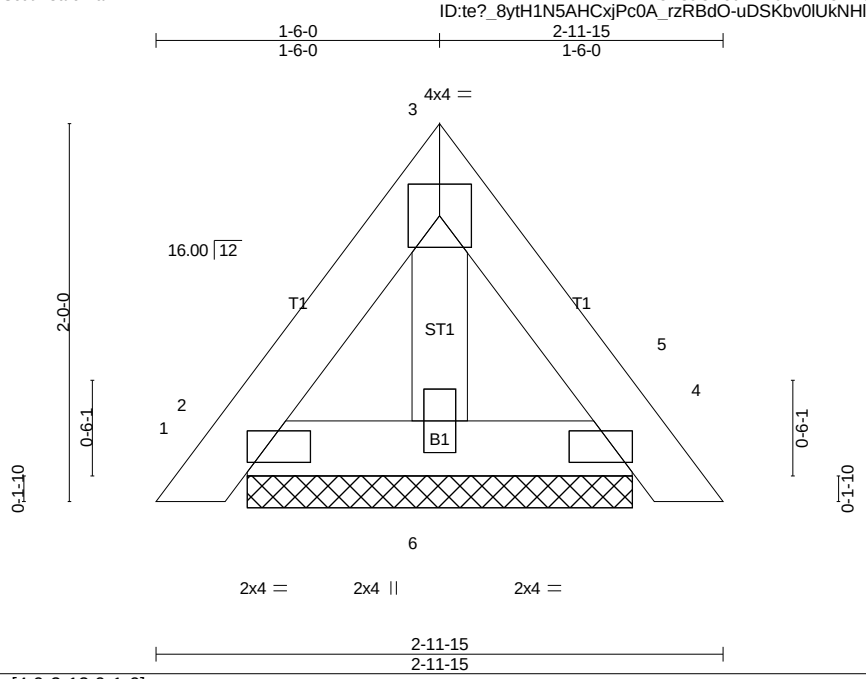


Plate Offsets (X,Y)-- [2:0-2-12,0-1-0], [4:0-2-12,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	0.00	4	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 12 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-11-15 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 = 72/2-0-6 (min. 0-1-8)
4 = 72/2-0-6 (min. 0-1-8)
6 = 55/2-0-6 (min. 0-1-8)
Max Horz
2 = 44(LC 9)
Max Uplift
2 = -20(LC 13)
4 = -18(LC 13)
Max Grav
2 = 72(LC 1)
4 = 72(LC 1)
6 = 61(LC 5)

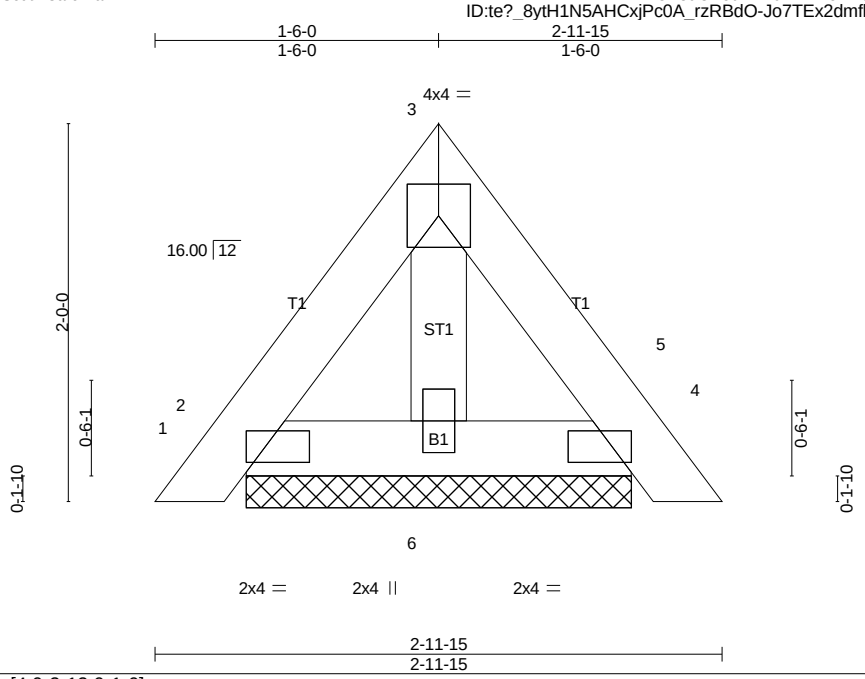
FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES- (10-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 2 and 18 lb uplift at joint 4.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	PB04	Piggyback	1	2	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:35:55 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-Jo7TEx2dmflscmTnSf93evJYXL0yH?9hrnmI9pzQUMI



Scale = 1:12.2

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	0.00	4	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	4	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 24 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-11-15 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)
2 = 72/2-0-6 (min. 0-1-8)
4 = 72/2-0-6 (min. 0-1-8)
6 = 55/2-0-6 (min. 0-1-8)
Max Horz
2 = 44(LC 9)
Max Uplift
2 = -20(LC 13)
4 = -18(LC 13)
Max Grav
2 = 72(LC 1)
4 = 72(LC 1)
6 = 61(LC 5)

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

NOTES- (12-13)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 2 and 18 lb uplift at joint 4.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R01	GABLE	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:36:00 2022 Page 1

ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-flxMHe6mbCN8iXLIFClELz0M1MhOyEeQ_3U3q1zQUMD

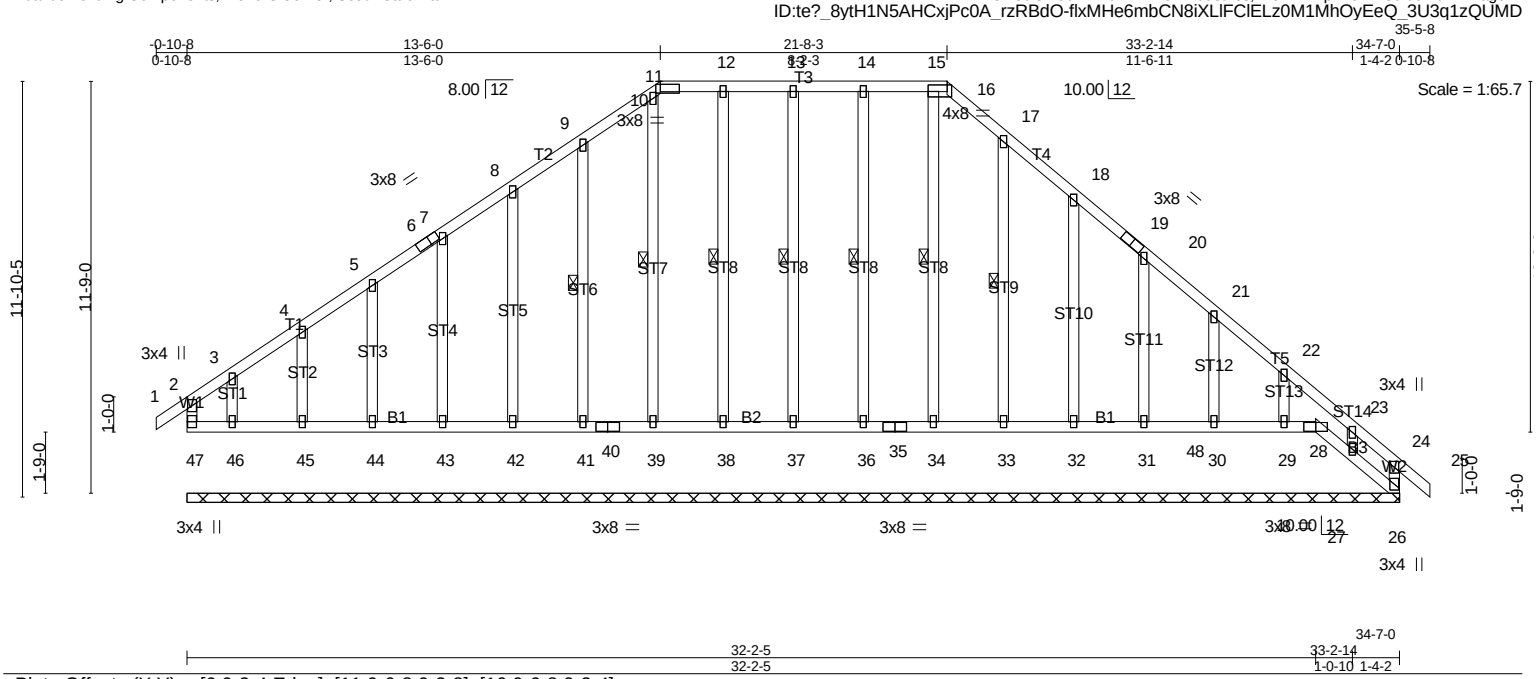


Plate Offsets (X,Y)-- [6:0-3-4,Edge], [11:0-6-8,0-2-8], [16:0-6-8,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.00	24	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.00	24	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	26	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 268 lb	FT = 0%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt
13-37, 12-38, 10-39, 9-41, 14-36, 15-34, 17-33

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

REACTIONS. All bearings 34-7-0.
(lb) - Max Horz
47=-274(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 26, 28, 37, 38, 39, 41, 42, 43, 44, 45, 36, 33, 32, 31, 30, 29 except 47=-201(LC 8), 46=-158(LC 9), 27=-201(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 47, 26, 28, 37, 38, 44, 45, 46, 36, 30, 29, 27 except 39=285(LC 23), 41=263(LC 20), 42=256(LC 20), 43=264(LC 20), 34=296(LC 23), 33=257(LC 21), 32=265(LC 21), 31=264(LC 21)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
8-9=-152/256, 9-10=-187/292, 11-12=-159/253, 12-13=-159/253, 13-14=-159/253, 14-15=-159/253, 15-16=-159/253, 16-17=-196/290

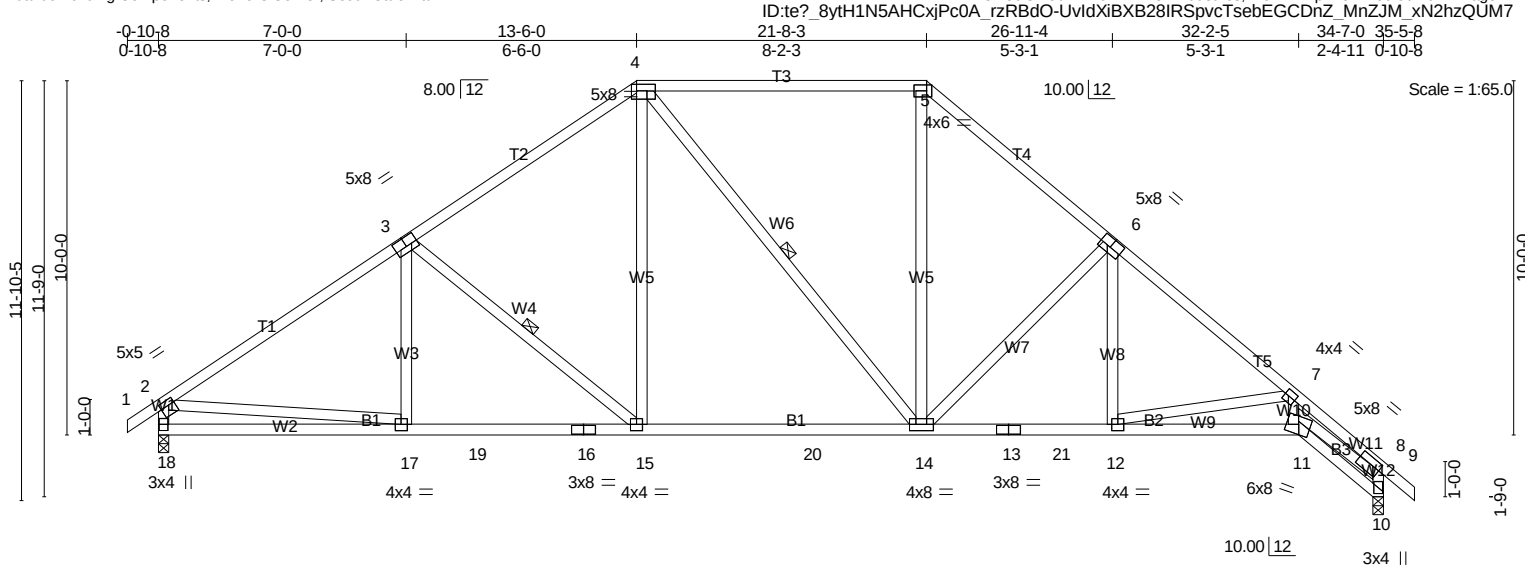
NOTES- (16-17)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. 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.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 28, 37, 38, 39, 41, 42, 43, 44, 45, 36, 33, 32, 31, 30, 29 except (jt=lb) 47=201, 46=158, 27=201.
14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 47, 28, 37, 38, 39, 41, 42, 43, 44, 45, 46, 36, 34, 33, 32, 31, 30, 29, 27.
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
16) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
17) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R02	Piggyback Base	4	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:36:06 2022 Page 1

ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-UvIdXiBXB28IRSpvcTsebEGCDnZ_MnZJM_xN2hzQUM7



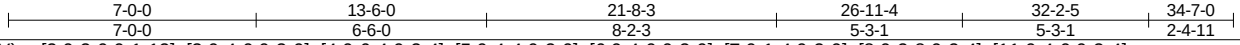


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [3:0-4-0,0-3-0], [4:0-6-4,0-2-4], [5:0-4-4,0-2-0], [6:0-4-0,0-3-0], [7:0-1-4,0-2-0], [8:0-2-8,0-2-4], [11:0-4-0,0-3-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.26	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.44	14-15	>932	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.24	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 226 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W11: 2x4 SP No.2

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt 3-15, 4-14

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

REACTIONS. (lb/size)
10 = 1433/0-3-8 (min. 0-1-8)
18 = 1433/0-3-8 (min. 0-1-11)
Max Horz
18 = -274(LC 8)
Max Uplift
10 = -168(LC 13)
18 = -171(LC 12)
Max Grav
10 = 1433(LC 1)
18 = 1449(LC 3)

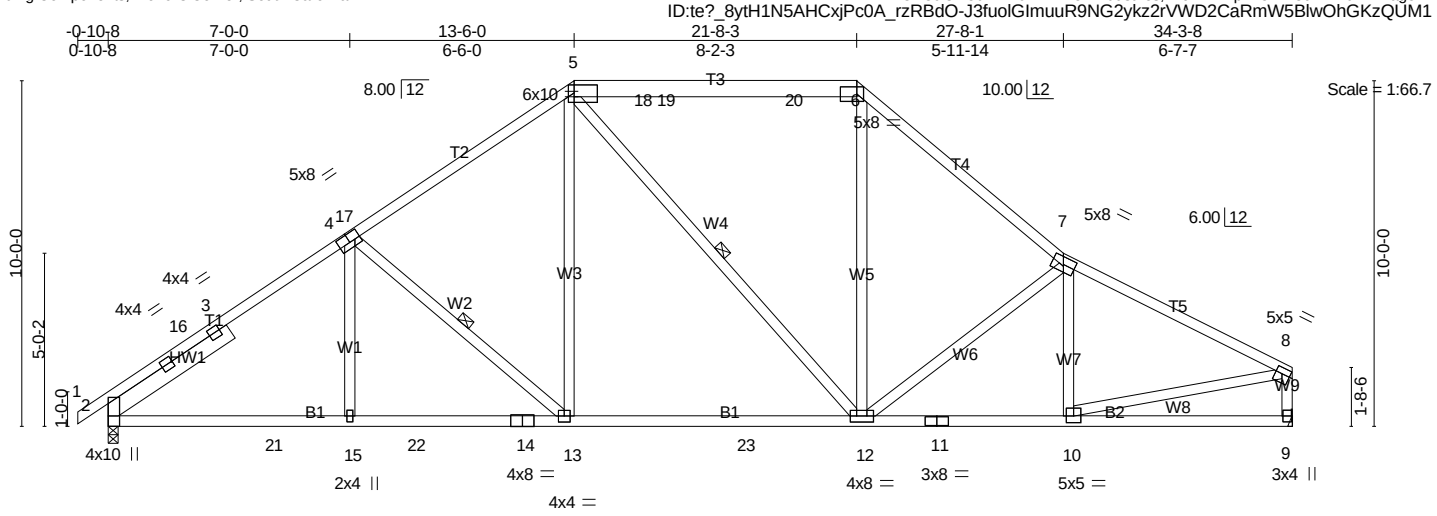
FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-1931/208, 3-4=-1614/215,
4-5=-1218/228, 5-6=-1660/222,
6-7=-2130/210, 7-8=-4044/368,
8-10=-1436/168, 2-18=-1380/202
BOT CHORD
17-18=-263/516, 17-19=-158/1648,
16-19=-158/1648, 15-16=-158/1648,
BOT CHORD
17-18=-263/516, 17-19=-158/1648,
16-19=-158/1648, 15-16=-158/1648,
15-20=-106/1304, 14-20=-106/1304,
13-14=0/1605, 13-21=0/1605,
12-21=0/1605, 11-12=-229/2865
WEBS
3-15=-450/212, 4-15=-57/615,
5-14=-52/696, 6-14=-639/227,
6-12=0/418, 7-12=-1320/239,
7-11=-55/1368, 8-11=-260/3220,
2-17=0/1241

NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=168, 18=171.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R03	Piggyback Base	5	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:36:12 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-J3fuolGImuuR9NG2ykz2rVWD2CaRmW5BlwOhGKzQUM1



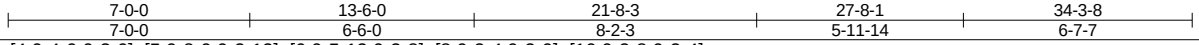


Plate Offsets (X,Y)-- [4:0-4-0,0-3-0], [5:0-8-0,0-2-12], [6:0-5-12,0-2-8], [8:0-2-4,0-2-0], [10:0-2-8,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.30	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.47	12-13	>875	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 223 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP SS *Except*
T3: 2x6 SP No.2, T5,T1: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER
Left 2x6 SP No.2 - 4-3-13
BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS
1 Row at midpt 4-13, 5-12

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

REACTIONS. (lb/size)
2 = 1419/0-3-8 (min. 0-2-2)
9 = 1365/Mechanical
Max Horz
2 = -225(LC 10)
Max Uplift
2 = -171(LC 14)
9 = -144(LC 15)
Max Grav
2 = 1781(LC 49)
9 = 1437(LC 41)

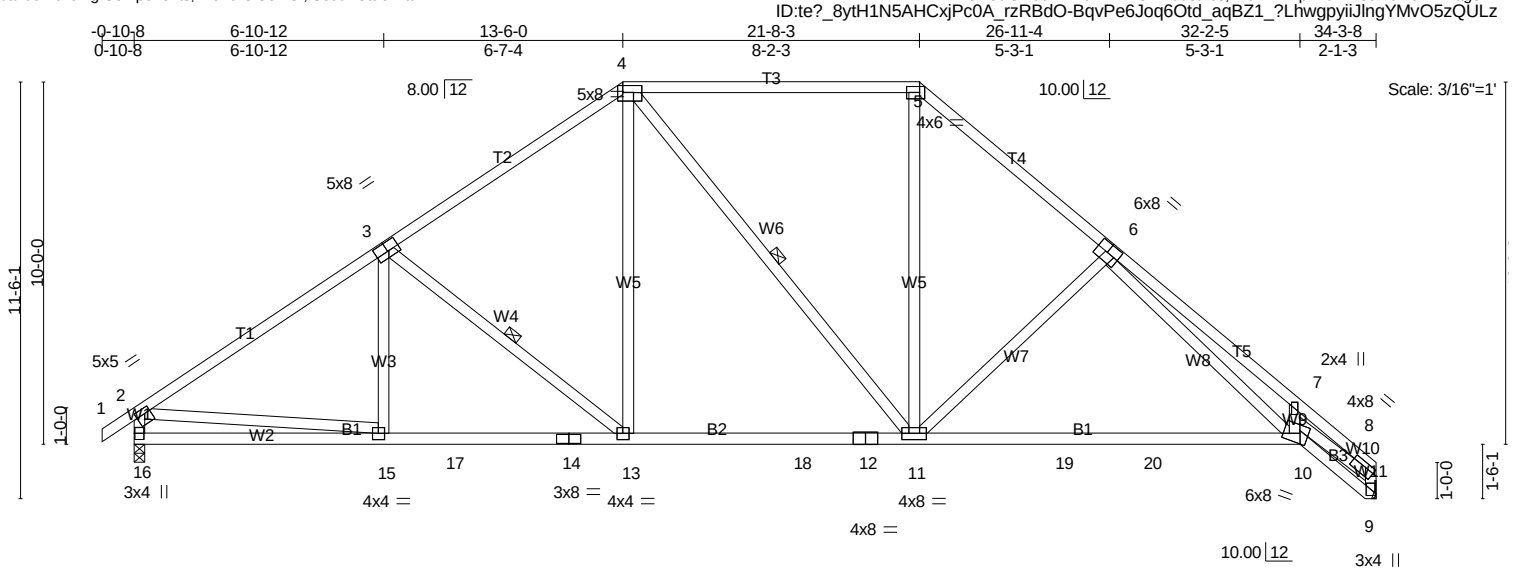
FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-16=-2510/190, 3-16=-2380/192,
3-4=-2383/217, 4-17=-1914/184,
5-17=-1900/220, 5-18=-1323/231,
18-19=-1323/231, 19-20=-1323/231,
6-20=-1323/231, 6-7=-1930/205,
7-8=-2030/185, 8-9=-1372/172
BOT CHORD
2-21=-214/2006, 15-21=-214/2006,
15-22=-214/2009, 14-22=-214/2009,
13-14=-214/2009, 13-23=-89/1466,
12-23=-89/1466, 11-12=-117/1790,
10-11=-117/1790
WEBS
4-15=0/290, 4-13=-688/216,
5-13=-58/792, 5-12=-292/114,
6-12=-39/729, 7-12=-595/206,
7-10=-294/79, 8-10=-73/1750

NOTES- (12-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=171, 9=144.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R04	Piggyback Base	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:36:16 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-BqvPe6Joq6Otd_aqBZ1_?LhwgpyiiJlngYMvO5zQULz



6-10-12 13-6-0 21-8-3 32-2-5 34-3-8
6-10-12 6-7-4 8-2-3 10-6-2 2-1-3

Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [3:0-4-0,0-3-0], [4:0-6-4,0-2-4], [5:0-4-4,0-2-0], [6:0-3-12,0-3-0], [8:0-3-4,0-1-8], [10:0-2-12,0-3-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.38	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.83	10-11	>491	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.26	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 218 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
B1: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
W10: 2x4 SP No.2

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 10-11.
WEBS
1 Row at midpt 3-13, 4-11

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

REACTIONS. (lb/size)
9 = 1359/Mechanical
16 = 1422/0-3-8 (min. 0-1-11)
Max Horz
16 = 262(LC 11)
Max Uplift
9 = -142(LC 13)
16 = -171(LC 12)
Max Grav
9 = 1394(LC 3)
16 = 1445(LC 3)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-1926/207, 3-4=-1600/217, 4-5=-1231/224, 5-6=-1681/217, 6-7=-3664/501, 7-8=-3710/313, 8-9=-1451/136, 2-16=-1379/201
TOP CHORD
2-3=-1926/207, 3-4=-1600/217, 4-5=-1231/224, 5-6=-1681/217, 6-7=-3664/501, 7-8=-3710/313, 8-9=-1451/136, 2-16=-1379/201
BOT CHORD
15-16=-274/502, 15-17=-173/1631, 14-17=-173/1631, 13-14=-173/1631, 13-18=-116/1280, 12-18=-116/1280, 11-12=-116/1280, 11-19=-48/1525, 19-20=-48/1525, 10-20=-48/1525
WEBS
3-13=-458/210, 4-13=-67/575, 5-11=-48/715, 6-11=-513/261, 6-10=-292/1839, 8-10=-216/2893, 2-15=0/1240

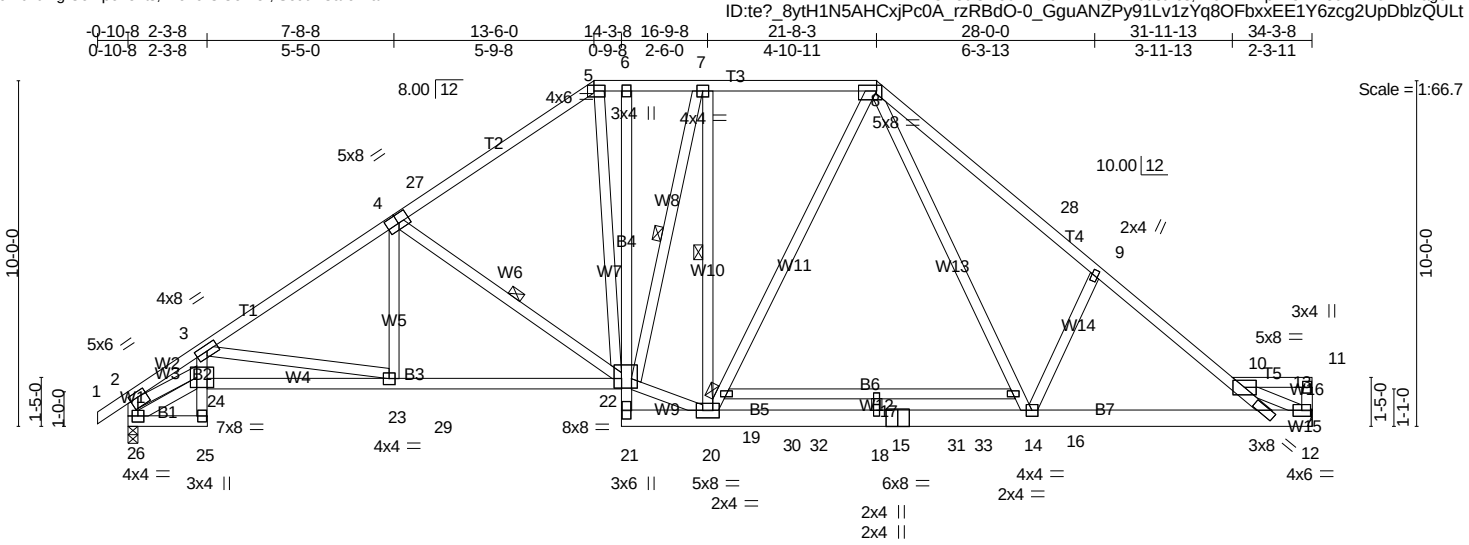
NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=142, 16=171.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R05	Piggyback Base	6	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina — 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:36:22 2022 Page 1

ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-0_GguANZPy91Lv1zYq8OFbxxEE1Y6zcg2UpDblzQULt



2-3-8	7-8-8	14-3-8	16-9-8	21-8-3	26-0-4	31-11-13	34-3-8
2-3-8	5-5-0	6-7-0	2-6-0	4-10-11	4-4-1	5-11-9	2-3-11

Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [4:0-4-0,0-3-0], [5:0-3-12,0-2-0], [8:0-6-4,0-2-0], [22:0-2-8,0-3-4], [24:0-5-12,0-3-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.25	TC	0.94	Vert(LL)	-0.24	17-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.42	17-19	>976	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.16	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 277 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T4: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
B4: 2x4 SP No.3, B5: 2x6 SP No.2
B7: 2x6 SP DSS
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-2-10 oc bracing: 23-24
6-0-0 oc bracing: 21-22,20-21.
6-0-0 oc bracing: 16-19
WEBS
1 Row at midpt
4-22, 7-22, 7-20

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

REACTIONS. (lb/size)
12 = 1467/Mechanical
26 = 1486/0-3-8 (min. 0-1-13)
Max Horz
26 = 214(LC 9)
Max Uplift
12 = -88(LC 13)
26 = -140(LC 12)
Max Grav
12 = 1581(LC 3)
26 = 1511(LC 3)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-3118/398, 3-4=-2417/284,

Continued on page 2

TOP CHORD
2-3=-3118/398, 3-4=-2417/284,
4-27=-1856/255, 5-27=-1767/284,
5-6=-1544/285, 6-7=-1540/284,
7-8=-1524/274, 8-28=-2455/332,
9-28=-2575/295, 9-10=-2604/231,
10-13=-1406/150, 2-26=-1503/212
BOT CHORD
3-24=-80/443, 23-24=-514/2950,
23-29=-195/2043, 22-29=-195/2043,
21-22=-264/0, 20-30=-8/1406,
18-30=-8/1406, 15-18=-8/1406,
15-31=-8/1406, 14-31=-8/1406,
13-14=-149/2029, 12-13=-66/1164
WEBS
3-23=-918/324, 4-23=0/398,
4-22=-706/228, 5-22=-11/674,
20-22=0/1692, 7-22=-114/251,
7-20=-555/230, 19-20=-124/316,
8-19=-100/380, 8-16=-137/1236,
14-16=-160/1168, 9-14=-436/269,
2-24=-301/2462, 17-18=-287/0,
10-12=-1144/61

NOTES- (12-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-8-6, Exterior(2R) 8-8-6 to 26-5-13, Interior(1) 26-5-13 to 31-11-3, Exterior(2E) 31-11-3 to 34-1-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 26=140.
10) This truss is designed in accordance with the 2018 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.

NOTES- (12-15)

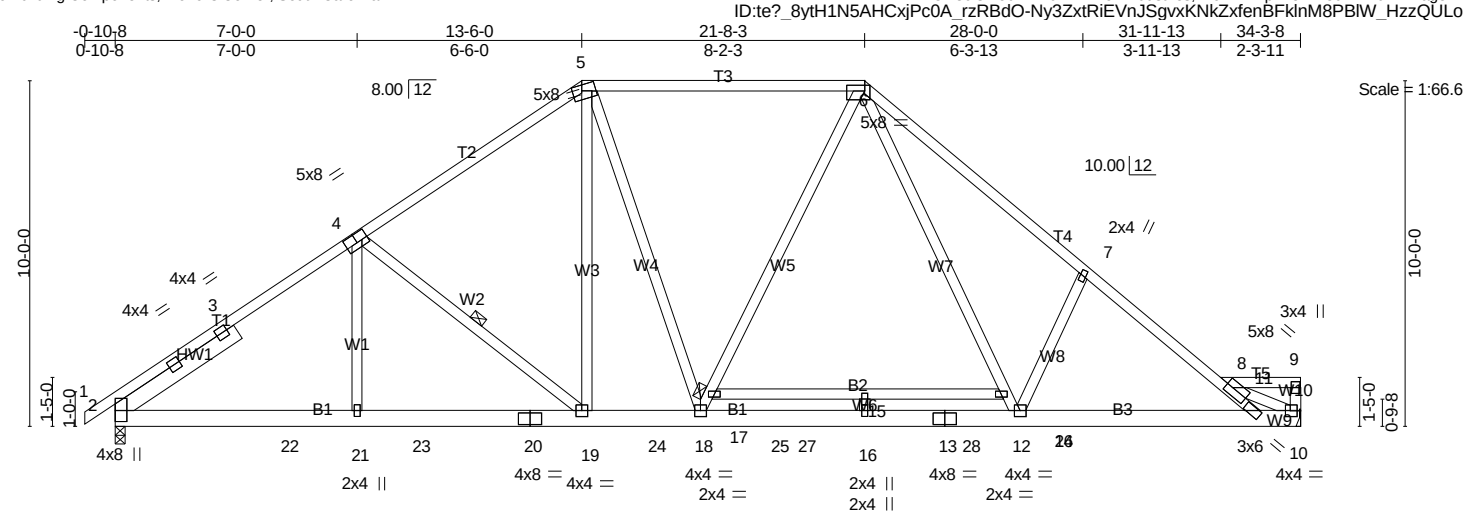
12) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
14) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
15) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S)

Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R05A	Piggyback Base	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:36:27 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-Ny3ZxtRiEVnJSgvxKNkZxfenBFklnM8PBlW_HzzQULo



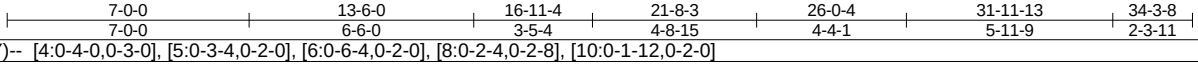


Plate Offsets (X,Y)-- [4:0-4-0,0-3-0], [5:0-3-4,0-2-0], [6:0-6-4,0-2-0], [8:0-2-4,0-2-8], [10:0-1-12,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.24	15-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.40	15-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 255 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T3,T4: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
B3: 2x6 SP DSS, B2: 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER
Left 2x6 SP No.2 - 4-2-11

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
Except:
6-0-0 oc bracing: 14-17
WEBS
1 Row at midpt 4-19

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

REACTIONS. (lb/size)
10 = 1474/Mechanical
2 = 1483/0-3-8 (min. 0-1-15)
Max Horz
2 = 232(LC 9)
Max Uplift
10 = -89(LC 13)
2 = -139(LC 12)
Max Grav
10 = 1648(LC 3)
2 = 1650(LC 3)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-2350/148, 3-4=-2246/171,
4-5=-1872/165, 5-6=-1606/145,
6-7=-2694/222, 7-8=-2726/109,
TOP CHORD
2-3=-2350/148, 3-4=-2246/171,
4-5=-1872/165, 5-6=-1606/145,
6-7=-2694/222, 7-8=-2726/109,
8-11=-1487/122
BOT CHORD
2-22=-175/1912, 21-22=-175/1912,
21-23=-174/1916, 20-23=-174/1916,
19-20=-174/1916, 19-24=-73/1497,
18-24=-73/1497, 18-25=0/1513,
16-25=0/1513, 13-16=0/1513,
13-26=0/1513, 12-26=0/1513,
11-12=-57/2122, 10-11=0/1203
WEBS
4-21=0/316, 4-19=-537/220,
5-19=-102/352, 5-18=-16/442,
17-18=-66/267, 6-17=-44/356,
6-14=-133/1255, 12-14=-159/1183,
7-12=-433/267, 8-10=-1183/0,
15-16=-286/0

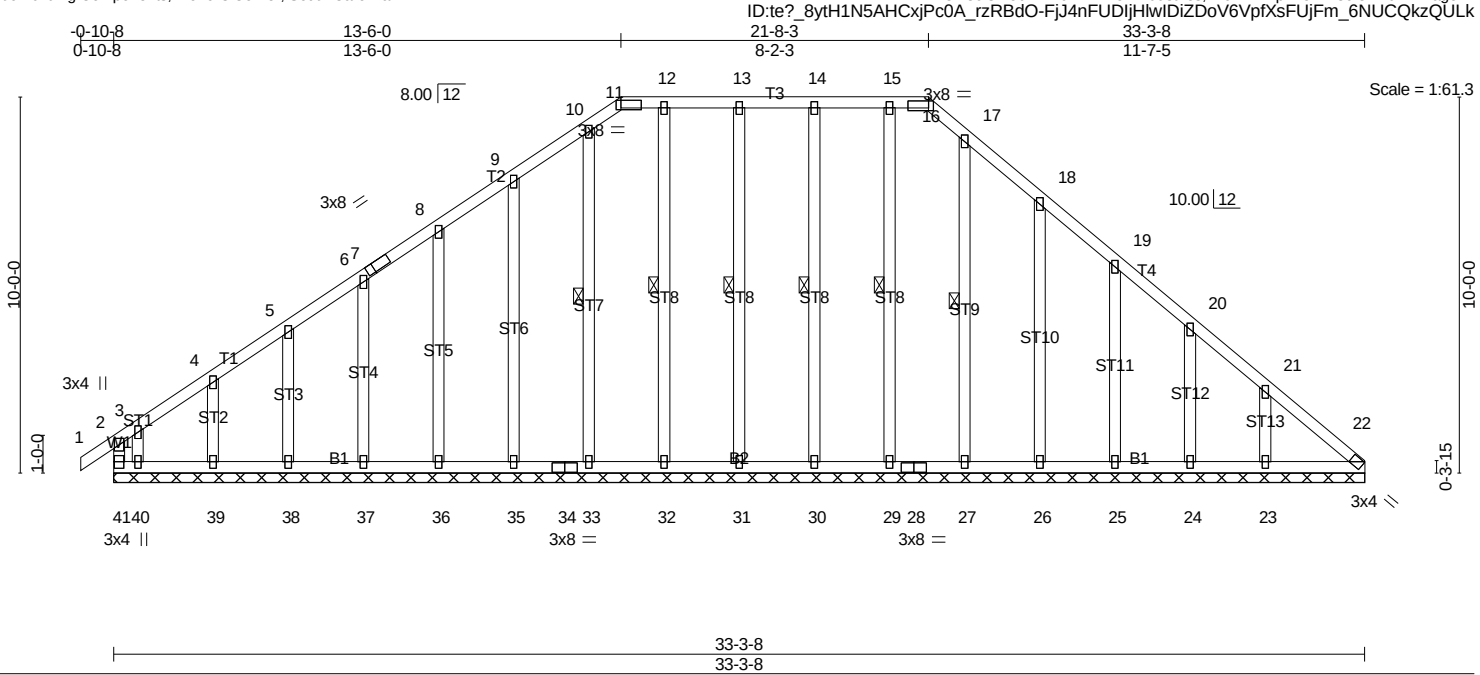
NOTES- (12-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=139.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R06	GABLE	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:36:31 2022 Page 1

ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-FjJ4nFUDIjHlwIDiZDoV6VpfXsFUjFm_6NUCQkzQULk



33-3-8
33-3-8

Plate Offsets (X,Y)-- [7:0-2-6,Edge], [11:0-6-8,0-2-8], [16:0-6-8,0-2-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	1	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.00	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 257 lb	FT = 0%

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

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt
13-31, 12-32, 10-33, 14-30, 15-29, 17-27

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

REACTIONS. All bearings 33-3-8.
(lb) - Max Horz
41=-237(LC 10)
Max Uplift
All uplift 100 lb or less at joint(s) 22, 31, 32, 33, 35, 36, 37, 38, 39, 30, 29, 25, 24 except 41=-241(LC 10), 40=-327(LC 12), 26=-101(LC 13), 23=-117(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 22, 31, 32, 33, 38, 39, 30, 29, 27, 24, 23 except 41=369(LC 12), 35=261(LC 20), 36=256(LC 20), 37=264(LC 20), 40=282(LC 10), 26=264(LC 21), 25=273(LC 21)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-274/187

NOTES- (14-15)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. 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.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 31, 32, 33, 35, 36, 37, 38, 39, 30, 29, 25, 24 except (jt=lb) 41=241, 40=327, 26=101, 23=117.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

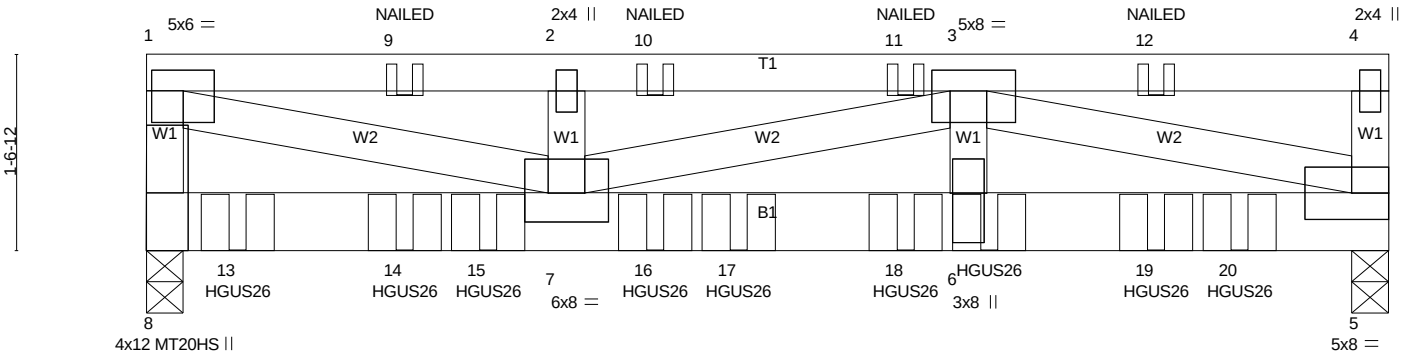
LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R07	Flat Girder	1	2	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:37:14 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-V_PKpy0BAxiebv?zbl4aLZ5s9BmYIWfK?ZPzRkzQUL3

3-4-4 | 6-6-12 | 9-11-0
3-4-4 | 3-2-8 | 3-4-4

Scale = 1:18.4



3-4-4 | 6-6-12 | 9-11-0
3-4-4 | 3-2-8 | 3-4-4

Plate Offsets (X,Y)-- [1:0-3-0,0-2-0], [3:0-1-12,0-2-0], [6:0-4-12,0-1-8], [7:0-4-0,0-2-12]

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	0.81	Vert(LL)	-0.08	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.16	6-7	>722	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 112 lb	FT = 0%

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

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

REACTIONS. (lb/size)
8 = 4125/0-3-8 (min. 0-2-7)
5 = 3735/0-3-8 (min. 0-2-3)
Max Horz
8 = -40(LC 8)
Max Uplift
8 = -485(LC 6)
5 = -445(LC 7)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-8=-2557/329, 1-9=-6838/811, 2-9=-6838/811, 2-10=-6838/811, 10-11=-6838/811, 3-11=-6838/811, 3-12=-390/59, 4-12=-390/59
BOT CHORD
8-13=-82/432, 13-14=-82/432, 14-15=-82/432, 7-15=-82/432, 7-16=-852/7075, 16-17=-852/7075, 17-18=-852/7075, 6-18=-852/7075, 6-19=-852/7075, 19-20=-852/7075, 5-20=-852/7075
WEBS
1-7=-808/6833, 3-7=-253/41, 3-6=-220/2415, 3-5=-7130/846

NOTES- (15-16)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=485, 5=445.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Use Simpson Strong-Tie HGUS26 (20-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 8-0-12 to connect truss(es) J01 (1 ply 2x6 SP) to front face of bottom chord.
12) Use Simpson Strong-Tie HGUS26 (20-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-8-12 from the left end to 8-8-12 to connect truss(es) R03 (1 ply 2x4 SP) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
15) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 6=-1417(B) 9=-0(F) 10=-0(F) 11=-0(F) 12=-0(F) 13=-1421(B) 15=-1417(B) 17=-1417(B) 20=-1417(B)

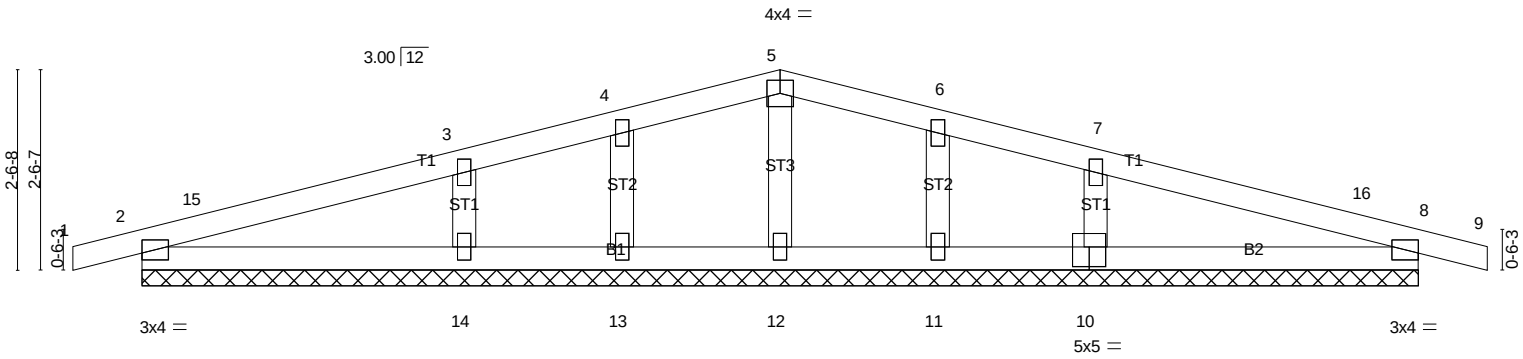
Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R08	Common Supported Gable	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:37:17 2022 Page 1

ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-vZ5TRz23Ss4DSMkYGtdHzCjWlPyuV4XmhXde23zQUL0

-0-10-8 | 8-1-0 | 16-2-0 | 17-0-8
0-10-8 | 8-1-0 | 8-1-0 | 0-10-8

Scale = 1:29.2



16-2-0
16-2-0

Plate Offsets (X,Y)-- [10:0-2-8,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	9	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	0.01	9	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 62 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 8-10.

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

REACTIONS. All bearings 16-2-0.
(lb) - Max Horz
2= 35(LC 14)
Max Uplift
All uplift 100 lb or less at joint(s) 2, 12, 13, 14, 11, 10, 8
Max Grav
All reactions 250 lb or less at joint(s) 2, 12, 13, 11, 8 except 14=415(LC 21), 10=411(LC 22)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
3-14=-311/101, 7-10=-306/98

NOTES- (14-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. 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.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 13, 14, 11, 10, 8.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R09	GABLE	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:37:21 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-oLK_HL5aW5afw_2JVjiE82t9z0IpRp6Lc9brAqzQUKy

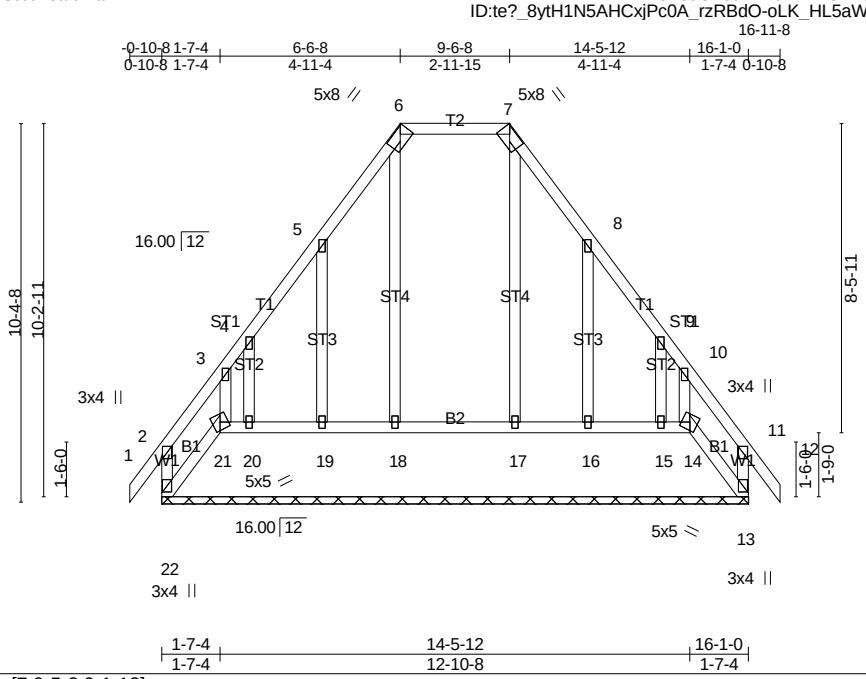


Plate Offsets (X,Y)-- [6:0-5-2,0-1-13], [7:0-5-2,0-1-13]

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	0.32	Vert(LL)	-0.00	11	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.00	11	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	-0.01	13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 123 lb	FT = 0%

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

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

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

REACTIONS. All bearings 16-1-0.
(lb) - Max Horz
22=-294(LC 10)
Max Uplift
All uplift 100 lb or less at joint(s) 14, 18 except 22=-436(LC 8), 13=-136(LC 12), 21=-288(LC 9), 19=-177(LC 12), 20=-145(LC 12), 16=-177(LC 13), 15=-150(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 13, 14, 19, 20, 16, 15 except 22=484(LC 11), 21=355(LC 10), 18=445(LC 23), 17=440(LC 22)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
4-5=-221/287, 5-6=-367/444, 6-7=-245/298, 7-8=-367/444, 8-9=-221/287
BOT CHORD
21-22=-310/290
WEBS
6-18=-295/157, 7-17=-295/157
WEBS
6-18=-295/157, 7-17=-295/157

NOTES- (16-17)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. 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.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 18 except (jt=lb) 22=436, 13=136, 21=288, 19=177, 20=145, 16=177, 15=150.
14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 21, 14, 18, 19, 20, 17, 16, 15.
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
16) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
17) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R10	Piggyback Base Girder	1	2	Job Reference (optional)

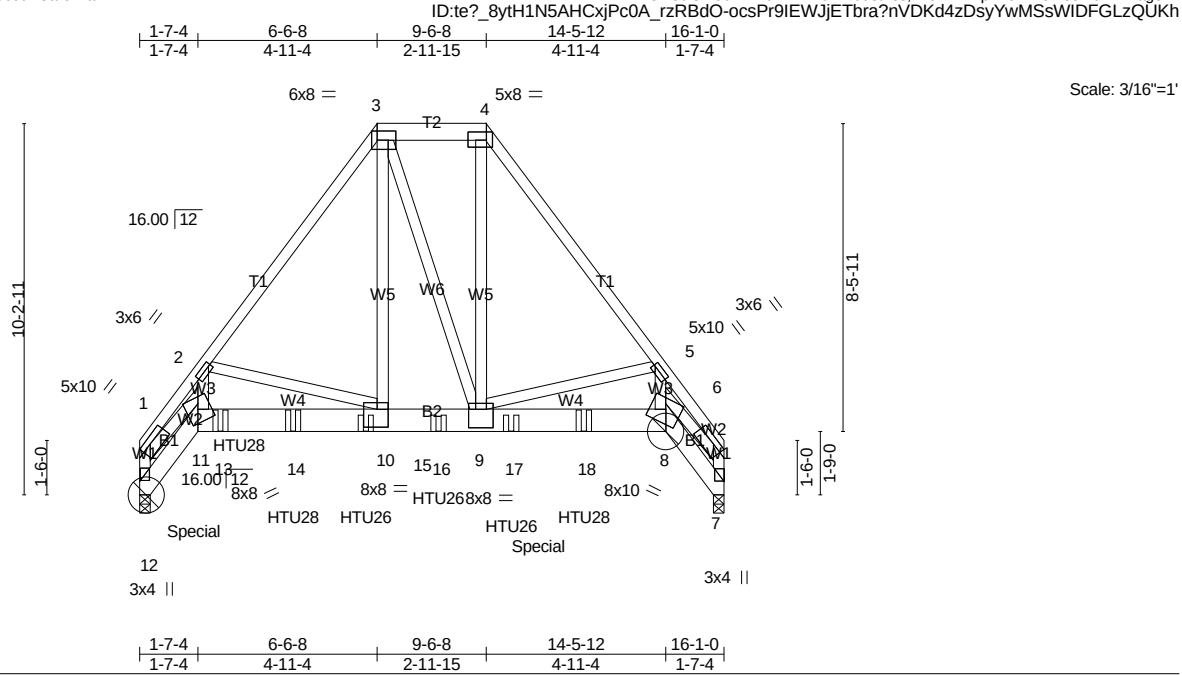


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [2:0-0-12,0-1-8], [3:0-6-2,0-3-0], [4:0-6-0,0-2-12], [5:0-0-8,0-1-8], [6:0-3-8,Edge], [7:0-0-1,0-3-0], [8:0-5-0,0-4-8], [9:0-4-0,0-6-0], [10:0-3-8,0-5-12], [11:0-3-12,0-4-4]

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	0.74	Vert(LL)	-0.10	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.20	10-11	>957	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.27	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 311 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
B2: 2x8 SP No.1
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP No.2

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-6-11 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size)
12 = 6902/0-3-8 (min. 0-2-8)
7 = 5846/0-3-8 (min. 0-2-3)
Max Horz
12 = -253(LC 31)
Max Uplift
12 = -549(LC 11)
7 = -422(LC 10)
Max Grav
12 = 7275(LC 3)
7 = 6253(LC 3)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-12=-5472/488, 1-2=-9975/924,
2-3=-5501/421, 3-4=-3415/336,
4-5=-5619/460, 5-6=-10297/692,
6-7=-5665/361
BOT CHORD
11-12=-632/370, 11-13=-733/5579,
13-14=-733/5579, 14-15=-733/5579,
10-15=-733/5579, 10-16=-320/3333,
9-16=-320/3333, 9-17=-420/5747,
17-18=-420/5747, 8-18=-420/5747,
BOT CHORD
11-12=-632/370, 11-13=-733/5579,
13-14=-733/5579, 14-15=-733/5579,
10-15=-733/5579, 10-16=-320/3333,
9-16=-320/3333, 9-17=-420/5747,
17-18=-420/5747, 8-18=-420/5747,
7-8=-548/78
WEBS
1-11=-616/6630, 2-11=-554/4201,
2-10=-2428/473, 3-10=-297/3924,
3-9=-144/304, 4-9=-329/4231,
5-9=-2523/397, 5-8=-240/4402,
6-8=-498/6812

NOTES- (16-17)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc, 2x8 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 8-5 2x4 - 2 rows staggered at 0-2-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Bearing at joint(s) 12, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=549, 7=422.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Use Simpson Strong-Tie HTU28 (26-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 8-0-0 oc max. starting at 2-2-12 from the left end to 12-2-12 to connect truss(es) R05 (1 ply 2x6 SP) to back face of bottom chord.
13) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-2-12 from the left end to 10-2-12 to connect truss(es) R05 (1 ply 2x6 SP) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

NOTES- (16-17)

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1383 lb down and 152 lb up at 0-2-3, and 1628 lb down and 109 lb up at 14-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
17) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

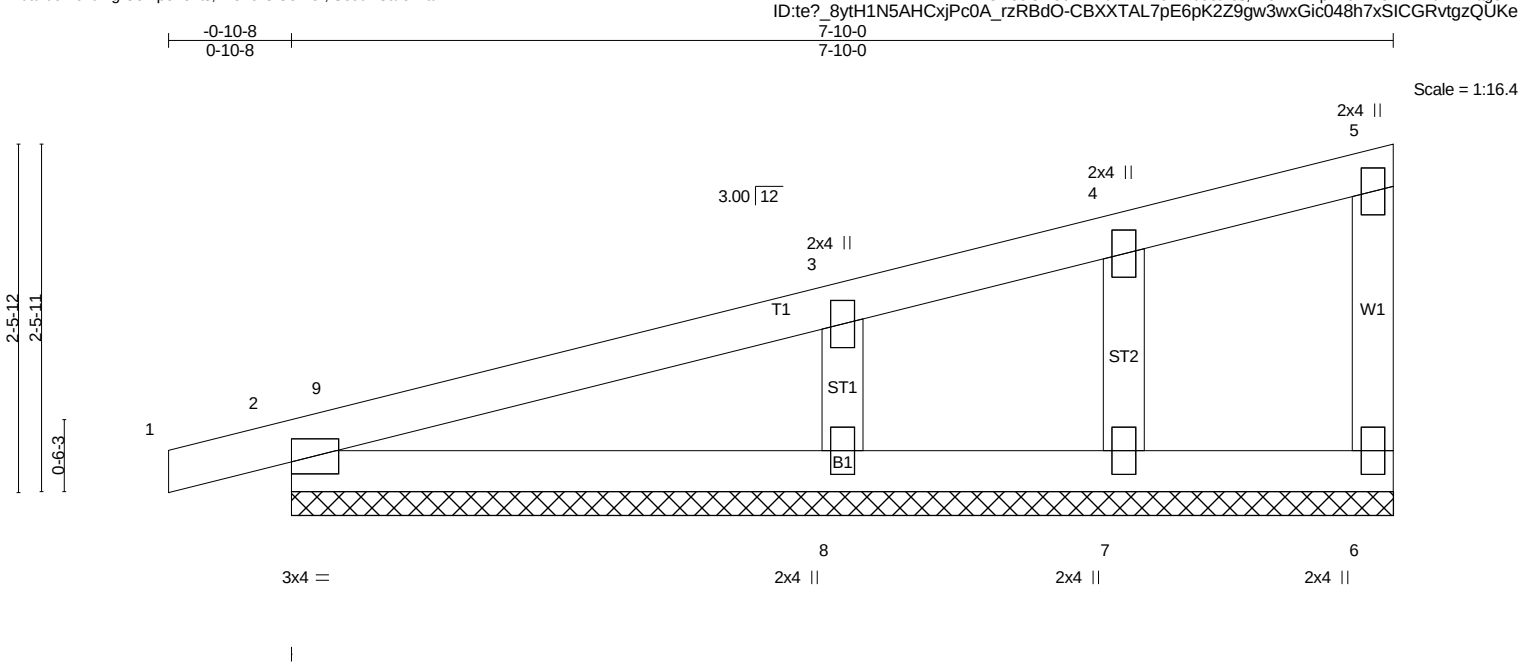
LOAD CASE(S)

Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-4=-60, 4-6=-60, 11-12=-20, 8-11=-20, 7-8=-20
   Concentrated Loads (lb)
   Vert: 12=-1349(B) 8=-1454(B) 13=-1447(B) 14=-1447(B) 15=-1447(B) 16=-1447(B) 17=-1447(B) 18=-1447(B)

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R11	Monopitch Supported Gable	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:37:41 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-CBXXTAL7pE6pK2Z9gw3wxGic048h7xSICGRvtgzQUKe



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	0.25	Vert(LL)	0.01	1	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	0.01	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 31 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
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 7-10-0.
(lb) - Max Horz
2= 81(LC 11)
Max Uplift
All uplift 100 lb or less at joint(s) 6, 2, 8, 7
Max Grav
All reactions 250 lb or less at joint(s) 6, 2, 7 except 8=400(LC 21)

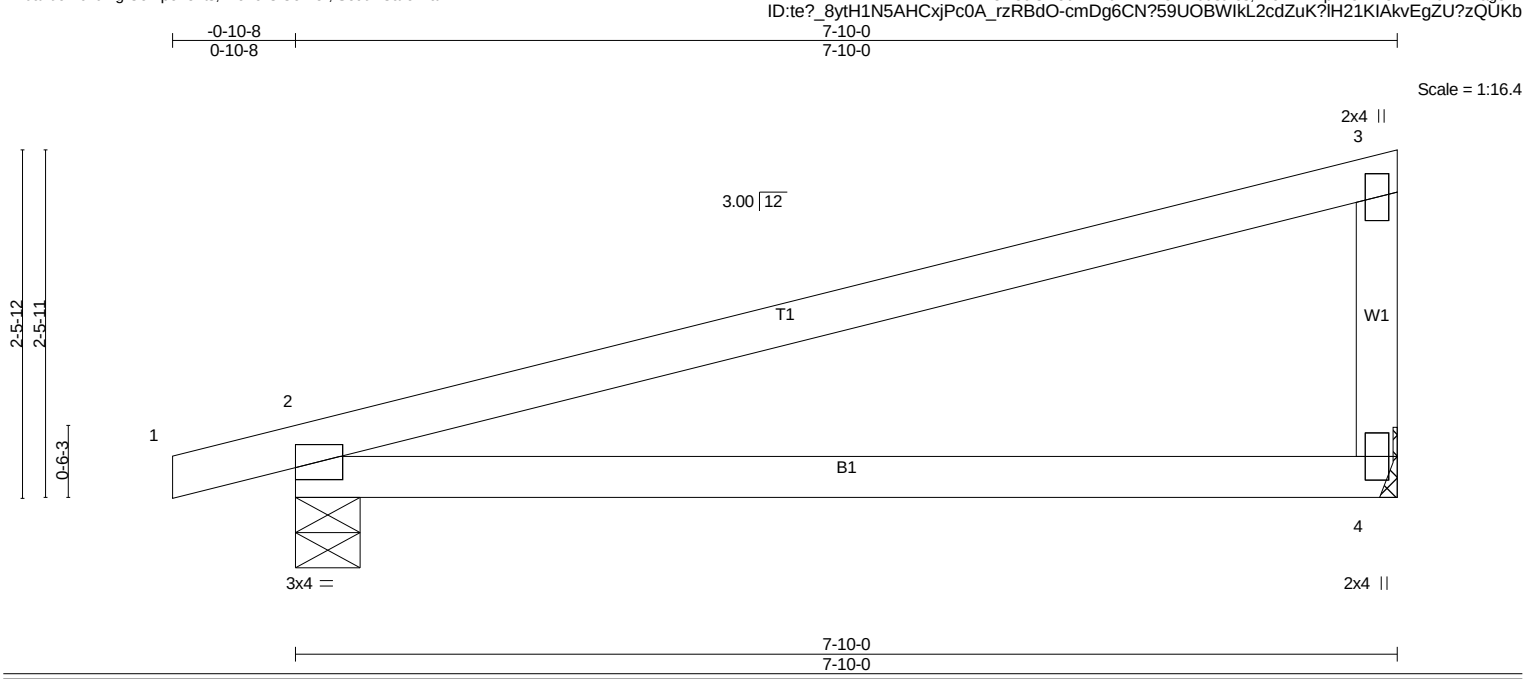
FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
3-8=-320/112

NOTES- (12-13)
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 8, 7.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R12	Monopitch	4	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:37:44 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-cmDg6CN?59UOBWIkL2cdZuK?lH21KIAkvEgZU?zQUKb



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	0.73	Vert(LL)	-0.19	2-4	>482	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.37	2-4	>241	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 28 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP SS
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)
4 = 293/Mechanical
2 = 369/0-5-8 (min. 0-1-8)
Max Horz
2 = 81(LC 11)
Max Uplift
4 = -63(LC 14)
2 = -99(LC 10)
Max Grav
4 = 381(LC 21)
2 = 458(LC 21)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
3-4=-307/100

NOTES- (10-11)
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
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) 4, 2.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R13	HALF HIP	6	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:37:47 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-1LvpkEPuO4sz2z1J0AAKBXyUNV6QXUKAbCuD5KzQUKY

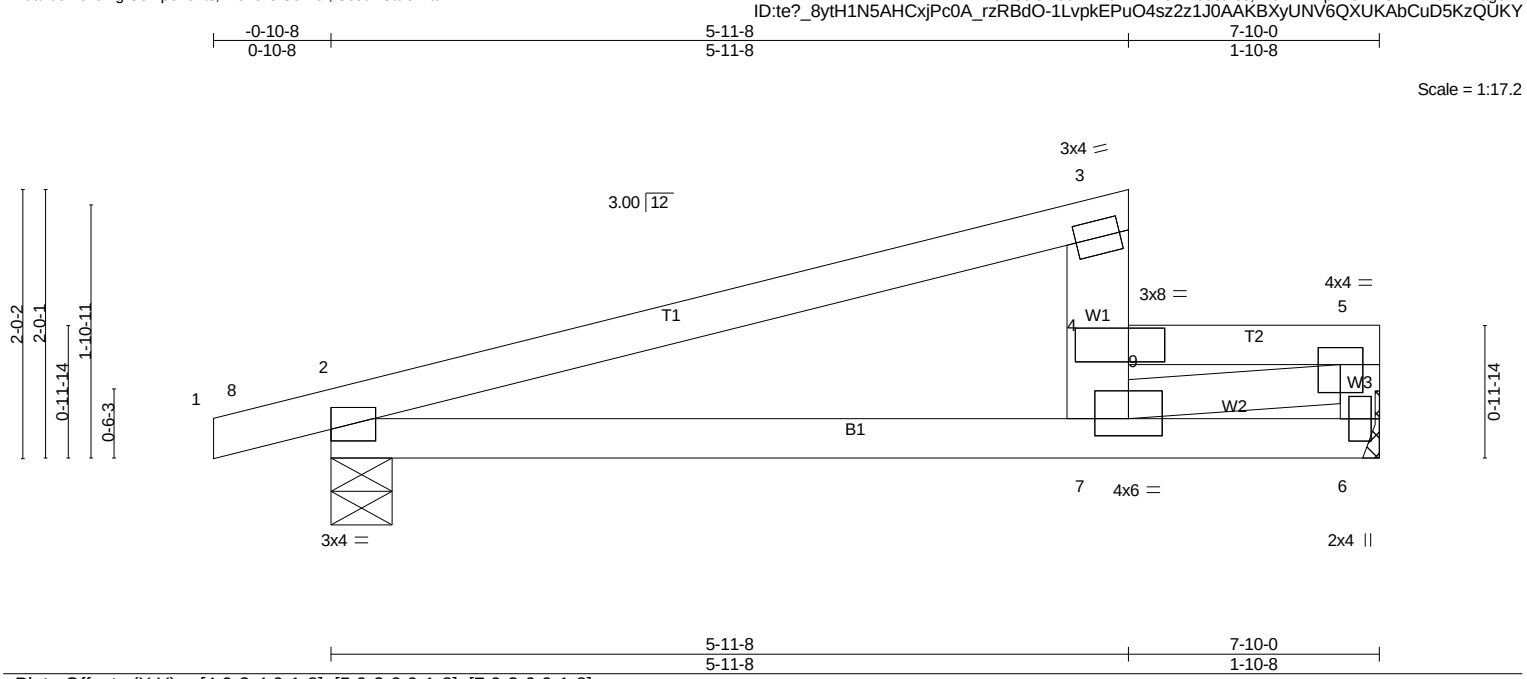


Plate Offsets (X,Y)-- [4:0-3-4,0-1-8], [5:0-2-0,0-1-8], [7:0-3-0,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.04	2-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.63	Vert(CT)	-0.10	2-7	>910	360		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH		Wind(LL)	0.02	2-7	>999	240	Weight: 31 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x6 SP No.2

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-9-8 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)
6 = 810/Mechanical
2 = 465/0-5-8 (min. 0-1-8)
Max Horz
2 = 86(LC 14)
Max Grav
6 = 956(LC 2)
2 = 662(LC 2)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-953/0, 4-7=-436/33, 4-9=-1558/0, 5-9=-1558/0, 5-6=-878/0
BOT CHORD
2-7=0/838
WEBS
5-7=0/1426

NOTES- (13-14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) C-C wind load user defined.
4) TCLL: ASCE 7-16; Pr=40.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
10) Refer to girder(s) for truss to truss connections.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 , 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard Except:
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-9=-60, 5-9=-260, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300
2) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-100, 4-9=-100, 5-9=-300, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-80, 4-9=-80, 5-9=-280, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 4-9=-50, 5-9=-250, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-50, 3-8=-58, 4-9=-29, 5-9=-229, 2-6=-20
Concentrated Loads (lb)

Continued on page 2

LOAD CASE(S)

Standard Except:
Concentrated Loads (lb)
Vert: 9=-300

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-29, 4-9=-63, 5-9=-263, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 4-9=-20, 5-9=-220, 2-6=-40
Concentrated Loads (lb)
Vert: 9=-300

8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=55, 2-3=42, 4-9=42, 5-9=-158, 2-6=-10
Horz: 2-3=-52, 3-4=-47, 5-6=35
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-3=-42, 4-9=-42, 5-9=-242, 2-6=-20
Horz: 2-3=22, 3-4=27, 5-6=-32
Concentrated Loads (lb)
Vert: 9=-300

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=38, 2-3=26, 4-9=10, 5-9=-190, 2-6=-10
Horz: 2-3=-36, 3-4=9, 5-6=19
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-3=13, 4-9=26, 5-9=-174, 2-6=-10
Horz: 2-3=-23, 3-4=-24, 5-6=-15
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 4-9=-10, 5-9=-210, 2-6=-20
Horz: 2-3=-26, 3-4=30, 5-6=9
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-7, 4-9=6, 5-9=-194, 2-6=-20
Horz: 2-3=-13, 3-4=-3, 5-6=-25
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 4-9=10, 5-9=-190, 2-6=-10
Horz: 2-3=-36, 3-4=-41, 5-6=17
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 4-9=26, 5-9=-174, 2-6=-10
Horz: 2-3=-20, 3-4=-26, 5-6=-12
Concentrated Loads (lb)
Vert: 9=-300

Standard Except:

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 4-9=10, 5-9=-190, 2-6=-10
Horz: 2-3=-36, 3-4=-41, 5-6=17
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 4-9=26, 5-9=-174, 2-6=-10
Horz: 2-3=-20, 3-4=-26, 5-6=-12
Concentrated Loads (lb)
Vert: 9=-300

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 4-9=-10, 5-9=-210, 2-6=-20
Horz: 2-3=-26, 3-4=-20, 5-6=7
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-3=-10, 4-9=6, 5-9=-194, 2-6=-20
Horz: 2-3=-10, 3-4=-5, 5-6=-23
Concentrated Loads (lb)
Vert: 9=-300

20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-100, 2-3=-20, 4-9=-20, 5-9=-220, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-8=-60, 3-8=-70, 4-9=-32, 5-9=-232, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-32, 4-9=-77, 5-9=-277, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

23) Dead: Lumber Increase=0.90, Plate Increase=0.90
Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 4-9=-20, 5-9=-220, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-9=-42, 5-9=-242, 2-6=-20
Horz: 2-3=-19, 3-4=23, 5-6=6
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-40, 4-9=-31, 5-9=-231, 2-6=-20
Horz: 2-3=-10, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 9=-300

Standard Except:

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-9=-42, 5-9=-242, 2-6=-20
Horz: 2-3=-19, 3-4=-15, 5-6=5
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-42, 4-9=-31, 5-9=-231, 2-6=-20
Horz: 2-3=-8, 3-4=-4, 5-6=-17
Concentrated Loads (lb)
Vert: 9=-300

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-61, 4-9=-72, 5-9=-272, 2-6=-20
Horz: 2-3=-19, 3-4=23, 5-6=6
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-67, 2-3=-70, 4-9=-61, 5-9=-261, 2-6=-20
Horz: 2-3=-10, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 9=-300

30) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-61, 4-9=-72, 5-9=-272, 2-6=-20
Horz: 2-3=-19, 3-4=-15, 5-6=5
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

31) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-72, 4-9=-61, 5-9=-261, 2-6=-20
Horz: 2-3=-8, 3-4=-4, 5-6=-17
Concentrated Loads (lb)
Vert: 9=-300

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 4-9=-60, 5-9=-260, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-32, 4-9=-89, 5-9=-289, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-89, 4-9=-32, 5-9=-232, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-29, 4-9=-72, 5-9=-272, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

LOAD CASE(S)

Uniform Loads (plf)
Vert: 1-3=-72, 4-9=-29, 5-9=-229, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 4-9=-64, 5-9=-264, 2-6=-20
Horz: 2-3=-19, 3-4=23, 5-6=6
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 4-9=-21, 5-9=-221, 2-6=-20
Horz: 2-3=-19, 3-4=23, 5-6=6
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-19, 4-9=-53, 5-9=-253, 2-6=-20
Horz: 2-3=-10, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 9=-300

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-58, 2-3=-62, 4-9=-10, 5-9=-210, 2-6=-20
Horz: 2-3=-10, 3-4=-3, 5-6=-19
Concentrated Loads (lb)
Vert: 9=-300

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 4-9=-64, 5-9=-264, 2-6=-20
Horz: 2-3=-19, 3-4=-15, 5-6=5
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 4-9=-21, 5-9=-221, 2-6=-20
Horz: 2-3=-19, 3-4=-15, 5-6=5
Drag: 1-2=-0
Concentrated Loads (lb)
Vert: 9=-300

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-3=-21, 4-9=-53, 5-9=-253, 2-6=-20
Horz: 2-3=-8, 3-4=-4, 5-6=-17
Concentrated Loads (lb)
Vert: 9=-300

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-61, 2-3=-64, 4-9=-10, 5-9=-210, 2-6=-20
Horz: 2-3=-8, 3-4=-4, 5-6=-17
Concentrated Loads (lb)
Vert: 9=-300

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-32, 4-9=-89, 5-9=-289, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-89, 4-9=-32, 5-9=-232, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-100, 4-9=-20, 5-9=-220, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-20, 4-9=-100, 5-9=-300, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

51) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-80, 4-9=-20, 5-9=-220, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

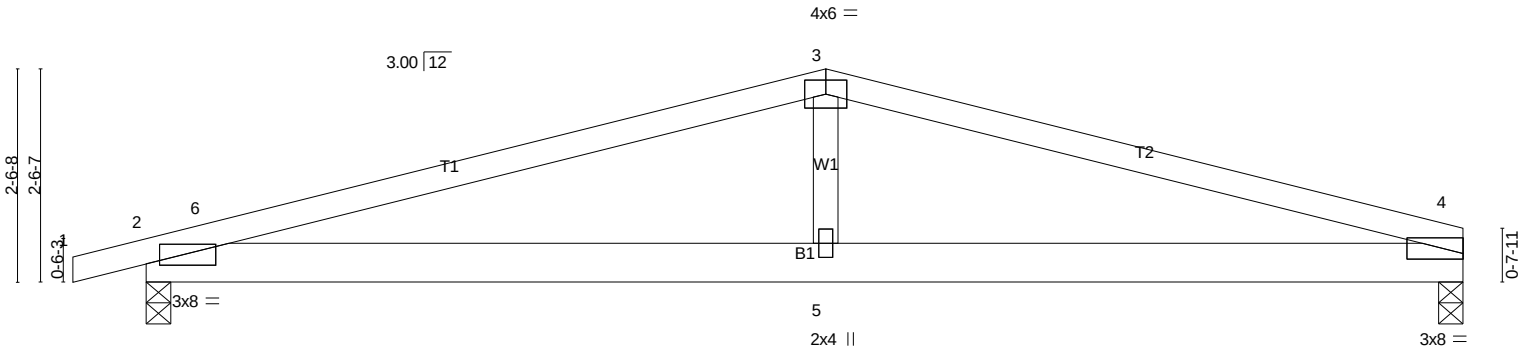
52) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-3=-20, 4-9=-80, 5-9=-280, 2-6=-20
Concentrated Loads (lb)
Vert: 9=-300

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	R14	Common	3	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:37:50 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-RwaxMFSmh?EXvRluiJj1p9a_2i6BkzLdHA7thfzQUKV

-0-10-8 / 0-10-8 | 8-1-0 / 8-1-0 | 15-8-0 / 7-7-0

Scale = 1:27.4



8-1-0 / 8-1-0 | 15-8-0 / 7-7-0

Plate Offsets (X,Y)-- [2:0-4-0,0-1-10]

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	0.94	Vert(LL)	-0.09	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.16	2-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 65 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
T2: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied.
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 = 613/0-3-8 (min. 0-1-8)
2 = 678/0-3-8 (min. 0-1-8)
Max Horz
2 = 36(LC 14)
Max Uplift
4 = -93(LC 11)
2 = -137(LC 10)
Max Grav
4 = 690(LC 22)
2 = 751(LC 21)

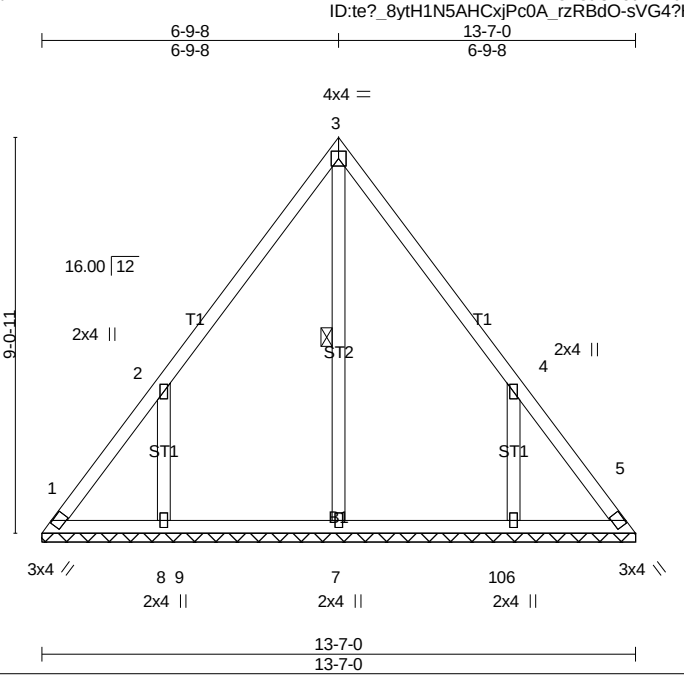
FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-6=-1371/143, 3-6=-1360/164, 3-4=-1373/166
BOT CHORD
2-5=-124/1255, 4-5=-124/1255
WEBS
3-5=0/389

NOTES- (10-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=137.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	VT01	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:37:53 2022 Page 1
ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-sVG4?HUe_wc6muUTNRHkRoCfbvC1xLo3z8LYI_zQUKS



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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 74 lb	FT = 0%

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

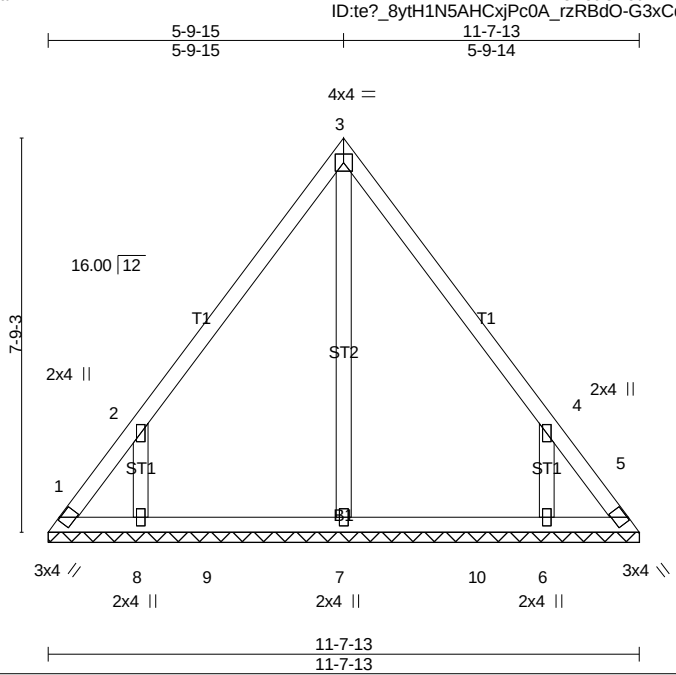
REACTIONS. All bearings 13-7-0.
(lb) - Max Horz
1=-215(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 5 except 8=-318(LC 12), 6=-318(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 1, 5 except 7=417(LC 22), 8=472(LC 19), 6=471(LC 20)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-2=-267/197
WEBS
2-8=-392/348, 4-6=-392/347

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=318, 6=318.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	VT02	Valley	1	1	Job Reference (optional)



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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 61 lb	FT = 0%

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

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

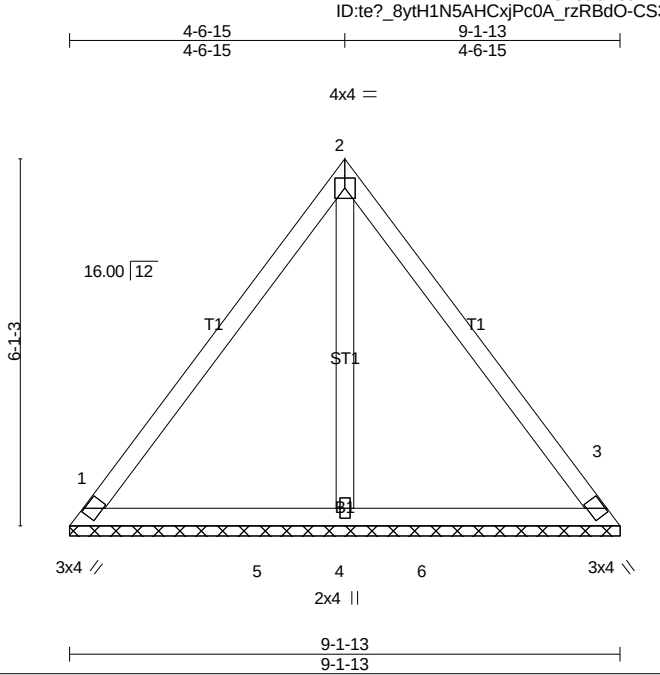
REACTIONS. All bearings 11-7-13.
(lb) - Max Horz
1=-183(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) except 1=-132(LC 10), 5=-108(LC 11), 8=-304(LC 12), 6=-304(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 1, 5 except 7=380(LC 22), 8=421(LC 19), 6=420(LC 20)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-2=-276/196, 4-5=-257/170
WEBS
2-8=-396/350, 4-6=-396/350

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 1, 108 lb uplift at joint 5, 304 lb uplift at joint 8 and 304 lb uplift at joint 6.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	VT03	Valley	1	1	Job Reference (optional)



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 43 lb	FT = 0%

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

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

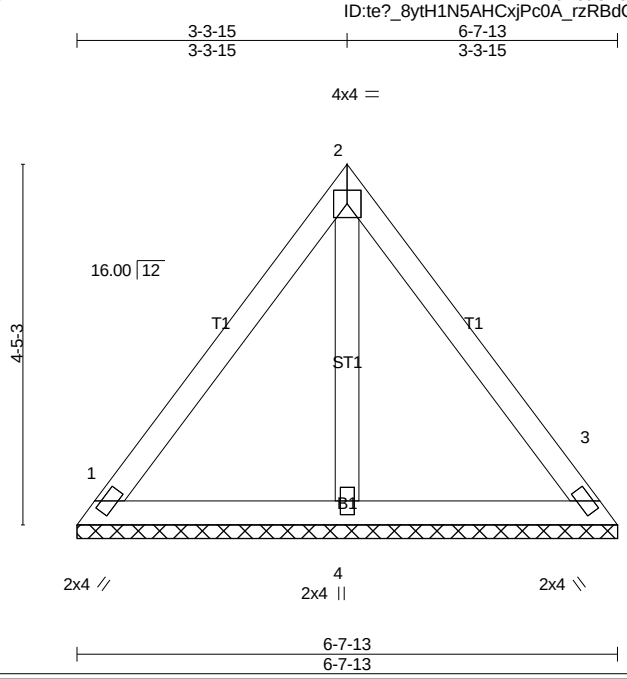
REACTIONS. (lb/size)
1 = 200/9-1-13 (min. 0-1-8)
3 = 200/9-1-13 (min. 0-1-8)
4 = 286/9-1-13 (min. 0-1-8)
Max Horz
1 = -142(LC 8)
Max Uplift
1 = -41(LC 13)
3 = -29(LC 12)
4 = -37(LC 12)
Max Grav
1 = 203(LC 20)
3 = 200(LC 1)
4 = 393(LC 19)

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

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1, 29 lb uplift at joint 3 and 37 lb uplift at joint 4.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	VT04	Valley	1	1	Job Reference (optional)



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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 31 lb	FT = 0%

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

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

REACTIONS. (lb/size)
1 = 157/6-7-13 (min. 0-1-8)
3 = 157/6-7-13 (min. 0-1-8)
4 = 172/6-7-13 (min. 0-1-8)
Max Horz
1 = -100(LC 8)
Max Uplift
1 = -50(LC 13)
3 = -42(LC 12)
Max Grav
1 = 157(LC 1)
3 = 157(LC 1)
4 = 184(LC 5)

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

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1 and 42 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	VT05	Valley	1	1	Job Reference (optional)

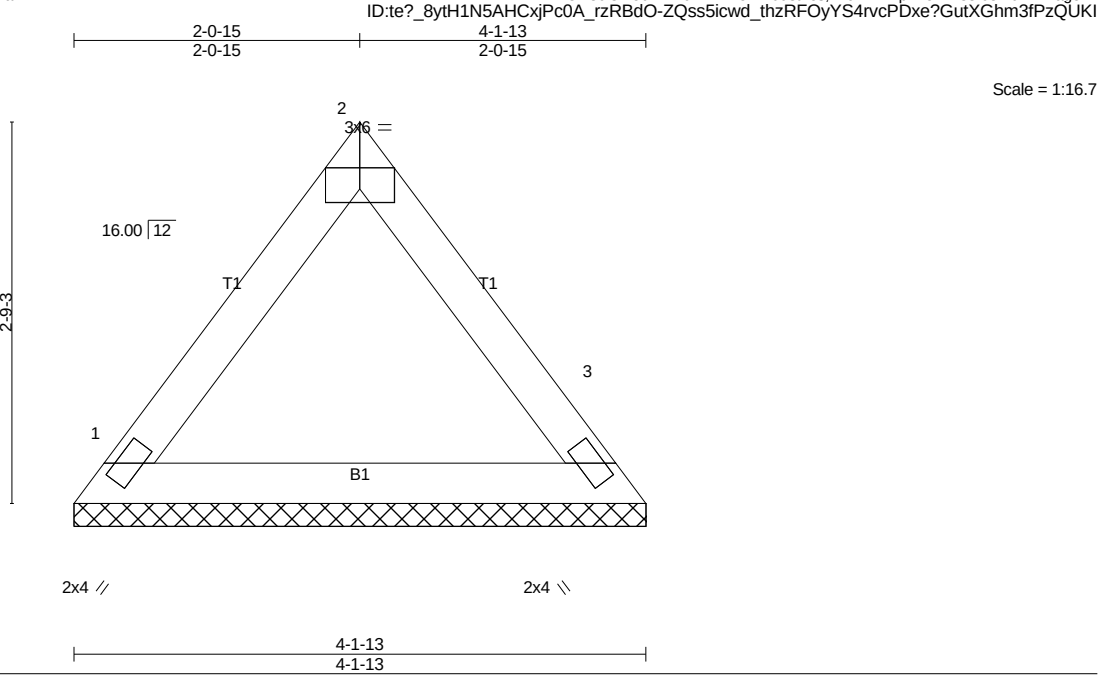


Plate Offsets (X,Y)-- [2:Edge,0-1-13]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 15 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-1-13 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)
1 = 143/4-1-13 (min. 0-1-8)
3 = 143/4-1-13 (min. 0-1-8)
Max Horz
1 = -59(LC 8)
Max Uplift
1 = -20(LC 13)
3 = -20(LC 12)

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

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 20 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 65 CROSSING @ ANDERSON CREEK | 245 TIMBER SKIP DRIVE SPRI
22-2668-R01	VT06	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Apr 15 12:38:06 2022 Page 1

ID:te?_8ytH1N5AHCxjPc0A_rzRBdO-z?Y_jkeowvFGqu_zeg0nSXExZ9kQTEdzyf?kFjzQUKF

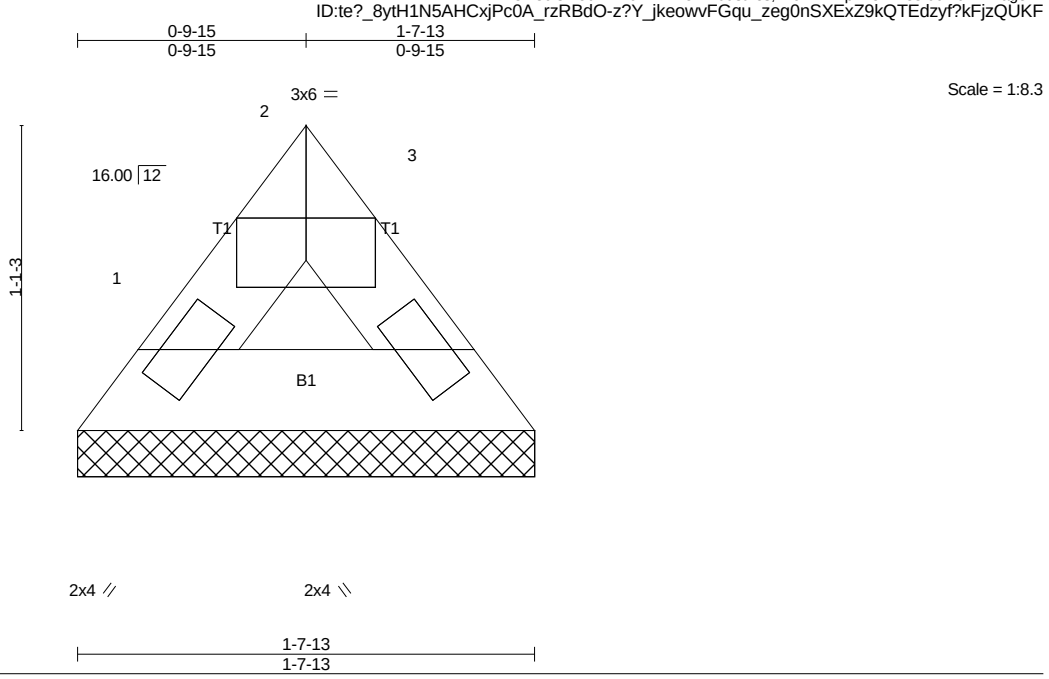


Plate Offsets (X,Y)-- [2:Edge,0-1-13]

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	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 5 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 1-7-13 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)
1 = 43/1-7-13 (min. 0-1-8)
3 = 43/1-7-13 (min. 0-1-8)
Max Horz
1 = -18(LC 8)
Max Uplift
1 = -6(LC 13)
3 = -6(LC 12)

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

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1 and 6 lb uplift at joint 3.
8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard